Sta. code	Δ (deg.)	Az (deg.)	Phase	UTC h min s	Resid (s)	T (s)	A (μm)
			1986 5 1				
			O=03 31 17.3	**± 0.14s**			
			LAT=40.33 N	**± 2.74km**			
			LONG= 51.62 E	**± 1.83km**			
			DEPTH= 49 km	**± 0.23km**			
			STATIONS USED = 68, STAND DEV= 2.12s				
			Ms=4.9/ 9,				
KSH	18.7	85	–P	03 35 33.0	–1.5		
			S	03 38 54.0	–2.8		
			LG_1	03 41 13.0	8.2		
			LE	Ms=5.5		6.0	4.30
WMQ	26.9	71	+iP	03 36 56.4	0.5		
			pP	03 37 09.0	1.5		
			sP	03 37 14.5	1.7		
			eS	03 41 29.0	1.9		
			sS	03 41 52.0	4.9		
			LN	Ms=5.2		7.0	1.09
			LE			6.0	1.01
GTA	36.6	75	+iP	03 38 22.2	0.7		
LZH	40.8	79	+iP	03 38 57.0	1.0		
CD2	42.9	86	eP	03 39 14.0	0.8		
			eS	03 45 34.0	0.1		
BTO	43.7	70	eP	03 39 20.0	0.0		
HHC	44.7	69	–P	03 39 28.3	0.1		
KMI	45.0	94	+P	03 39 38.0	7.6		
			pP	03 39 41.0	–1.4		
			S	03 46 06.0	2.6		
XAN	45.4	79	+iP	03 39 33.2	–0.3		
			pP	03 39 45.6	–0.1		
TIY	46.5	73	eP	03 39 43.0	0.8		
			LN	Ms=4.9		10.0	0.35
			LE			9.0	0.20
GYA	47.3	89	P	03 39 48.0	–0.4		
			pP	03 40 00.4	–0.1		
			S	03 46 38.0	1.9		
BJI	48.3	68	eP	03 39 56.0	–0.2		
WHN	51.1	80	P	03 40 17.0	–0.5		
			pP	03 40 30.0	0.1		
CN2	53.2	60	+P	03 40 32.7	–0.8		
			pP	03 40 45.4	–0.5		
			eS	03 47 56.0	–3.4		
NJ2	53.7	76	–P	03 40 36.6	–0.7		
			pP	03 40 49.3	–0.5		
MDJ	55.6	58	eP	03 40 52.5	1.5		
SSE	55.9	76	P	03 40 52.8	–0.5		
			PMZ			0.8	0.011
			pP	03 41 05.3	–0.5		
			1986 5 1				
			O=08 03 29.0	**± 0.05s**			
			LAT=14.90 S	**± 0.46km**			
			LONG=167.49 E	**± 1.00km**			
			DEPTH=134 km	**± 0.33km**			
			STATIONS USED = 17, STAND DEV= 0.94s				
MDJ	68.5	332	eP	08 14 19.0	–0.7		
GYA	72.0	305	P	08 14 40.4	–0.3		
XAN	74.0	312	eP	08 14 51.2	–1.0		
KMI	74.6	302	–P	08 14 57.0	1.1		
GTA	82.9	314	P	08 15 41.8	0.6		
			1986 5 1				
			O=11 13 16.6	**± 0.06s**			
			LAT=10.44 S	**± 0.79km**			
			LONG=116.65 E	**± 1.78km**			
			DEPTH= 35 km	**± 0.16km**			
			STATIONS USED = 11, STAND DEV= 1.40s				
CD2	42.9	344	eP	11 21 14.9	0.5		
XAN	44.8	351	eP	11 21 28.2	–1.5		
BJI	50.2	360	P	11 22 10.5	–1.2		
GTA	52.0	343	eP	11 22 27.5	2.1		
			1986 5 1				
			O=11 14 02.3	**± 0.23s**			
			LAT=23.33 N	**± 1.16km**			
			LONG=124.39 E	**± 1.47km**			
			DEPTH= 16 km				
			STATIONS USED = 5, STAND DEV= 2.31s				
			M_L=3.5/ 1,				
			1986 5 1				
			O=12 20 04.9	**± 0.12s**			
			LAT= 7.61 S	**± 1.30km**			
			LONG=128.00 E	**± 1.60km**			
			DEPTH=190 km	**± 1.38km**			
			STATIONS USED = 9, STAND DEV= 1.77s				
NJ2	40.4	348	–P	12 27 27.0	0.7		
XAN	45.2	338	eP	12 28 03.2	–1.9		
			1986 5 1				
			O=17 21 23.8	**± 0.30s**			
			LAT=15.15 S	**± 5.03km**			
			LONG=174.17 W	**± 5.76km**			
			DEPTH= 34 km	**± 0.68km**			

STATIONS USED = 53, STAND DEV = 3.13s
Ms = 5.6 / 17, m_B = 5.7 / 4

QZH	76.7	301	eP	17 33 18.0	4.1		
			S	17 43 04.0	8.1		
			SME	m_B = 5.3	7.0	0.18	
			LE	Ms = 5.1	16.0	0.51	
MDJ	78.4	323	eP	17 33 22.0	−1.3		
			S	17 43 12.0	−2.1		
NJ2	79.4	307	eP	17 33 32.5	3.5		
			S	17 43 35.0	9.9		
			LN	Ms = 5.4	18.0	1.10	
CN2	80.4	320	eP	17 33 33.0	−1.4		
			PP	17 36 30.0	−8.2		
			eS	17 43 33.0	−4.2		
DL2	80.5	315	eP	17 33 35.0	0.3		
			eS	17 43 38.0	0.2		
			LN	Ms = 5.6	20.0	1.20	
			LE		18.0	1.08	
SNY	80.6	318	eP	17 33 32.2	−3.1		
			eS	17 43 36.0	−3.0		
WHN	82.3	304	eP	17 33 44.0	−0.4		
			eS	17 43 58.0	1.0		
			eSKS	17 44 01.0	3.9		
			ScS	17 44 14.0	4.9		
			LN	Ms = 5.6	16.0	1.26	
TIA	82.5	311	eP	17 33 44.4	−0.8		
			LE	Ms = 5.7	17.0	1.96	
BJI	84.8	314	P	17 33 56.0	−0.7		
			eS	17 44 20.0	−1.2		
			LN	Ms = 5.5	16.0	0.64	
			LE		17.0	0.78	
TIY	86.5	310	eP	17 34 05.0	−0.5		
			sP	17 34 28.0	8.8		
			S	17 44 45.5	8.9		
			LN	Ms = 5.8	22.0	2.86	
GYA	87.3	298	P	17 34 08.2	−1.0		
			S	17 44 40.0	−3.7		
XAN	87.9	306	eP	17 34 10.5	−1.5		
			eS	17 44 48.0	−3.3		
HHC	88.3	313	P	17 34 13.0	−1.2		
			eS	17 44 55.0	−0.5		
			LE	Ms = 5.4	20.0	0.98	
BTO	89.3	312	eP	17 34 20.0	1.0		
			eSKS	17 44 48.0	5.1		
			eS	17 45 06.0	1.2		
CD2	91.0	302	eP	17 34 35.0	8.0		
			eS	17 45 29.0	8.7		
			LE	Ms = 5.8	20.0	2.12	
GTA	96.4	309	P	17 34 45.3	−6.5		
			LE	Ms = 5.2	22.0	0.50	

1986 5 1
O = 19 31 41.8 ± 0.25s
LAT = 21.91 S ± 0.48km
LONG = 170.18 E ± 1.29km
DEPTH = 68 km ± 2.28km
STATIONS USED = 27, STAND DEV = 1.63s
Ms = 5.6 / 3, m_B = 6.1 / 4

QZN	71.7	300	P	19 43 00.7	1.9		
			PMZ	m_B = 6.0	6.0	1.20	
			pP	19 43 21.0	4.5		
			PP	19 45 46.0	6.4		
			S	19 52 20.0	9.1		
			SMN	m_B = 6.0	11.0	0.70	
			SME		11.0	1.90	
			sS	19 52 43.0	0.4		
			LN	Ms = 5.6	20.0	1.70	
			LE		19.0	1.40	
KMI	80.4	302	+iP	19 43 50.0	1.4		
			PMZ	m_B = 6.3	4.0	1.70	
			pP	19 44 11.0	4.7		
			S	19 53 55.0	8.4		
			SME	m_B = 6.3	8.0	1.70	
			PS	19 54 48.0			
LSA	91.7	301	P	19 44 44.7	0.5		
			pP	19 45 03.7	1.8		
			SKS	19 55 05.5	−1.8		
			S	19 55 24.7	−10.0		
			LE	Ms = 5.3	7.0	0.24	

1986 5 1
O = 21 43 55.1 ± 0.11s
LAT = 6.18 S ± 1.62km
LONG = 131.57 E ± 2.58km
DEPTH = 33 km ± 0.17km
STATIONS USED = 36, STAND DEV = 1.96s
Ms = 4.6 / 1,

NJ2	39.9	343	eP	21 51 29.5	1.4		
WHN	40.1	337	P	21 51 31.5	2.1		
GYA	40.4	324	P	21 51 33.4	0.7		
TIA	44.3	343	eP	21 52 03.7	−0.4		
XAN	45.4	333	+P	21 52 12.4	−0.4		
TIY	47.2	339	eP	21 52 27.1	0.1		
			LN	Ms = 4.6	8.0	0.11	
			LE		13.0	0.21	
BJI	48.1	344	eP	21 52 34.5	0.1		
SNY	48.3	352	eP	21 52 36.0	0.1		
MDJ	50.6	358	−P	21 52 53.0	−0.3		
LSA	52.7	315	eP	21 53 09.8	0.0		
GTA	54.0	330	P	21 53 19.5	0.2		

WMQ	63.6	326	P	21 54 26.0	0.4	

1986 5 1
O = 22 12 01.2 ± 0.09s
LAT = 17.91 S ± 0.41km
LONG = 178.48 W ± 0.76km
DEPTH = 607 km ± 1.08km
STATIONS USED = 22, STAND DEV = 0.88s

MDJ	78.1	325	+P	22 23 02.0	1.1	
CN2	80.0	322	eP	22 23 10.6	0.0	
GYA	85.0	300	eP	22 23 36.6	0.9	
XAN	86.2	307	eP	22 23 42.2	0.7	

1986 5 2
O = 00 37 44.6 ± 0.11s
LAT = 36.18 N ± 3.20km
LONG = 141.22 E ± 1.86km
DEPTH = 62 km ± 2.00km
STATIONS USED = 29, STAND DEV = 2.49s

MDJ	12.2	317	eP	00 40 40.0	1.8	
CN2	14.3	307	eP	00 41 04.6	−0.6	
DL2	15.8	286	eP	00 41 27.8	3.3	
TIA	19.4	277	eP	00 42 06.6	−2.4	
BJI	20.1	289	P	00 42 13.0	−2.6	
XAN	26.4	275	eP	00 43 17.0	−1.0	
WMQ	41.1	298	P	00 45 25.9	1.4	

1986 5 2
O = 00 43 10.2 ± 0.09s
LAT = 36.26 N ± 2.67km
LONG = 141.23 E ± 1.79km
DEPTH = 46 km ± 1.75km
STATIONS USED = 41, STAND DEV = 2.13s

MDJ	12.2	317	eP	00 46 06.0	2.3	
CN2	14.2	307	eP	00 46 31.0	0.1	
SNY	14.8	297	P	00 46 38.4	0.2	
DL2	15.8	286	eP	00 46 54.4	3.6	
NJ2	19.0	264	eP	00 47 36.5	5.8	
TIA	19.4	277	−P	00 47 33.5	−2.3	
BJI	20.0	288	eP	00 47 39.0	−3.3	
XAN	26.4	275	eP	00 48 44.2	−0.9	
GYA	31.0	261	P	00 49 24.6	−1.0	
CD2	31.5	271	eP	00 49 30.1	−0.6	
			eS	00 54 33.0	−1.6	
GTA	32.7	288	+iP	00 49 39.8	−0.8	
WMQ	41.1	298	P	00 50 52.5	1.1	

1986 5 2
O = 01 09 25.1 ± 0.09s
LAT = 30.64 N ± 1.77km
LONG = 141.81 E ± 2.00km
DEPTH = 53 km ± 0.84km
STATIONS USED = 65, STAND DEV = 1.54s
Ms = 4.4 / 13,

MDJ	17.0	329	eP	01 13 19.0	−1.4		
SSE	17.7	277	+P	01 13 31.0	1.1		
			PMZ			1.2	0.047
			eS	01 16 48.0	5.6		
			esS	01 17 00.0	1.1		
			eSS	01 17 11.0	5.9		
			LE	Ms = 4.4		15.0	0.92
SNY	18.4	312	eP	01 13 37.9	−0.7		
			eS	01 17 02.0	3.5		
			LN	Ms = 4.5		15.0	0.90
			LE			15.0	0.80
CN2	18.5	320	−P	01 13 38.0	−1.0		
			eS	01 17 06.0	6.7		
			LE	Ms = 4.3		13.0	0.60
DL2	18.5	302	eP	01 13 40.7	1.4		
NJ2	19.7	280	+P	01 13 53.0	0.4		
			S	01 17 28.0	2.8		
			LE	Ms = 4.4		18.0	1.00
QZH	21.3	260	eP	01 14 10.0	0.4		
			LE	Ms = 4.0		15.0	0.33
TIA	21.3	292	+P	01 14 10.1	0.3		
			eS	01 18 02.2	4.1		
			LE	Ms = 4.6		14.5	1.11
BJI	22.9	301	eP	01 14 24.0	−1.1		
			S	01 18 28.0	2.6		
			LE	Ms = 4.4		17.0	0.78
WHN	23.6	277	P	01 14 33.0	0.5		
			eS	01 18 48.0	8.4		
			LN	Ms = 4.3		12.0	0.44
HHC	26.5	301	P	01 14 59.0	−0.7		
BTO	27.6	300	−iP	01 15 09.7	0.0		
			eS	01 19 49.0	3.7		
			LN	Ms = 4.9		17.0	1.00
			LE			17.0	1.60
XAN	27.9	286	eP	01 15 11.4	−1.6		
GYA	31.1	271	P	01 15 39.8	−1.3		
LZH	32.0	290	eP	01 15 48.5	−1.0		
CD2	32.6	280	eP	01 15 53.2	−1.1		
			S	01 21 06.2	2.4		
GTA	35.2	296	P	01 16 16.0	−1.0		
WMQ	44.3	303	P	01 17 33.0	0.8		
KSH	53.6	299	eP	01 18 46.0	2.5		

1986 5 2
O = 02 44 43.8 ± 0.13s
LAT = 1.89 N ± 1.14km

LONG= 98.99 E ± 0.91km
DEPTH= 135 km ± 1.38km
STATIONS USED = 56, STAND DEV= 1.21s

QZN	20.1	31	P	02 49 10.0	1.1		
			pP	02 49 34.0	−2.7		
			sP	02 49 53.5	2.6		
			eS	02 52 41.0	−1.1		
			eSS	02 53 21.0	1.2		
			LN			14.0	0.70
KMI	23.4	9	eP	02 49 42.0	0.4		
			pP	02 50 11.0	2.4		
			sP	02 50 25.0	0.0		
			eS	02 53 48.0	6.4		
			sS	02 54 40.0	5.1		
GYA	25.5	16	P	02 50 01.0	−0.8		
			pP	02 50 31.0	1.5		
			sP	02 50 47.0	1.3		
			S	02 54 15.0	−1.4		
			LN			12.0	0.60
			LE			12.0	0.40
LSA	28.6	346	P	02 50 29.9	−0.8		
			eS	02 55 05.0	−3.7		
XAN	33.3	15	+P	02 51 08.6	−2.5		
			pP	02 51 36.5	−3.6		
			S	02 56 17.0	−2.9		
LZH	34.3	7	eP	02 51 19.0	−0.9		
SSE	35.8	34	P	02 51 32.0	−0.5		
			epP	02 52 04.0	2.0		
			esP	02 52 20.0	2.2		
			eS	02 57 00.0	0.2		
			eSS	02 59 36.0	8.0		
GTA	37.4	1	+iP	02 51 45.6	0.2		
BTO	39.8	13	eP	02 52 06.0	0.3		
BJI	41.1	20	eP	02 52 16.0	0.1		
			eS	02 58 15.0	−3.4		
DL2	42.3	27	eP	02 52 26.0	0.4		
			eS	02 58 36.0	0.2		
KSH	42.9	334	eP	02 52 33.0	2.2		
WMQ	42.9	348	P	02 52 32.4	1.0		
			PMZ			2.0	1.89
			S	02 58 47.0	2.0		
SNY	45.5	26	eP	02 52 51.5	−0.2		
			eS	02 59 18.0	−4.7		
			LE			16.0	0.41
CN2	47.9	26	+P	02 53 09.6	−1.0		
MDJ	50.4	28	eP	02 53 27.5	−2.3		

1986 5 2
O=03 18 36.5 ± 0.06s
LAT=27.91 N ± 2.04km
LONG= 53.23 E ± 1.07km
DEPTH= 35 km ± 0.44km
STATIONS USED = 80, STAND DEV= 0.81s
Ms=5.4/34, m_B=5.6/ 7

KSH	22.1	53	−P	03 23 30.0	−0.7		
			PP	03 23 56.0	−0.5		
			eS	03 27 30.0	2.6		
			sS	03 27 43.0	0.9		
			LE	Ms=5.9		10.0	14.6
WMQ	31.9	51	P	03 25 01.6	0.6		
			S	03 30 07.4	0.2		
			LN	Ms=5.6		24.0	10.8
LSA	33.2	78	eP	03 25 13.0	0.1		
			S	03 30 25.5	−2.4		
			LN	Ms=5.1		14.0	1.75
GTA	40.0	61	+iP	03 26 11.0	0.5		
			S	03 32 07.5	−5.3		
			SS	03 35 03.0	−1.9		
			LE	Ms=5.4		11.0	1.76
LZH	43.3	66	+iP	03 26 37.5	0.3		
			S	03 33 04.0	3.2		
			SS	03 36 15.0	6.1		
			LN	Ms=5.4		12.0	1.74
			LE			11.0	0.75
CD2	43.8	73	eP	03 26 41.4	0.0		
			S	03 33 05.5	−3.1		
			LN	Ms=5.4		12.0	1.80
KMI	44.2	82	+P	03 26 44.0	−0.3		
			eS	03 33 08.0	−6.8		
GYA	47.2	79	P	03 27 09.0	0.4		
			S	03 33 57.0	−0.4		
			LN	Ms=5.3		16.0	1.40
			LE			16.0	0.90
XAN	47.7	68	+iP	03 27 10.8	−1.0		
			sP	03 27 26.5	0.9		
			PP	03 29 00.0	−2.0		
			S	03 33 59.5	−3.8		
			LN	Ms=5.5		20.0	3.41
BTO	47.9	59	−P	03 27 14.0	0.4		
			e	03 27 07.0			
			S	03 34 02.0	−4.3		
			LN	Ms=5.4		15.0	1.20
			LE			17.0	1.50
HHC	49.0	59	+P	03 27 22.5	0.0		
			PP	03 29 19.0	3.6		
			S	03 34 23.0	0.5		
			LN	Ms=5.5		10.0	1.02
			LE			10.0	0.96
TIY	50.0	63	+iP	03 27 30.0	0.1		
			PMZ			1.2	0.15

			PP	03 29 29.0	4.0		
			S	03 34 35.0	−1.0		
			SMN	m_B = 5.6		8.0	0.45
			SME			9.0	0.54
			LN	Ms = 5.6		18.5	3.13
			LE			18.0	1.10
QZN	52.3	87	P	03 27 47.0	−0.3		
			eS	03 35 08.0	−0.9		
			LN	Ms = 5.2		19.0	1.40
BJI	52.6	59	eP	03 27 49.0	−0.5		
			eS	03 35 09.0	−4.0		
			SMN	m_B = 5.5		8.0	0.28
			SME			9.0	0.41
			LN	Ms = 5.4		15.0	1.51
WHN	52.8	71	P	03 27 51.5	0.3		
			eS	03 35 17.0	0.9		
			LN	Ms = 5.4		16.0	1.89
TIA	53.9	64	eP	03 27 58.6	−0.8		
			eS	03 35 31.0	−0.2		
			LN	Ms = 5.5		14.5	0.91
			LE			14.5	1.78
GZH	54.0	81	eP	03 28 00.6	0.6		
			eS	03 35 35.0	2.8		
NJ2	56.2	69	+P	03 28 15.8	−0.2		
			PP	03 30 24.5	2.4		
			PPMZ			5.0	0.51
			LN	Ms = 5.5		14.0	1.80
			LE			1.0	0.040
DL2	56.9	60	eP	03 28 21.2	−0.1		
			S	03 36 10.0	−0.2		
			LN	Ms = 5.9		13.0	0.77
			LE			18.0	5.39
SNY	57.9	56	−P	03 28 27.0	−0.8		
			eS	03 36 20.0	−3.6		
			LN	Ms = 5.8		13.0	1.10
			LE			20.0	4.20
SSE	58.4	69	P	03 28 31.5	0.1		
			PMZ			1.3	0.065
			sP	03 28 46.0	0.6		
			eS	03 36 30.0	−0.3		
			LN	Ms = 5.4		16.0	1.45
CN2	58.9	54	+P	03 28 33.8	−1.0		
			PMZ			3.0	0.50
			sP	03 28 51.0	2.1		
			PcP	03 29 28.5	5.6		
			PP	03 30 45.0	−1.1		
			ScP	03 33 21.5	2.5		
			eS	03 36 28.0	−8.8		
			eSS	03 40 27.0	−4.0		
			LE	Ms = 5.7		16.0	3.00
MDJ	61.6	52	+P	03 28 52.4	−1.3		
			pP	03 29 00.0	−3.7		
			PP	03 31 09.0	−2.1		
			eS	03 37 08.0	−4.3		

1986 5 2
O = 03 44 12.3 ± 0.33s
LAT = 36.21 N ± 2.17km
LONG = 125.76 E ± 2.55km
DEPTH = 16 km
STATIONS USED = 9, STAND DEV = 3.91s
M_L = 4.0 / 7,

DL2	4.2	311	Pg	03 45 25.0	−2.3		
			SMN	M_L = 4.2		1.0	0.37
			SME			1.0	0.52
SNY	5.9	344	+Pg	03 45 55.5	−0.3		
			SMN	M_L = 4.0		1.0	0.080
			SME			1.0	0.18
SSE	6.4	218	ePn	03 45 45.0	−1.1		
			LG_2	03 47 37.8	−4.7		
			LN			1.2	0.031
			LE			1.0	0.034
TIA	7.0	273	ePg	03 46 17.8	2.1		
			SMN	M_L = 3.9		1.2	0.060
			SME			1.2	0.041
CN2	7.6	358	ePg	03 46 26.4	0.1		

1986 5 2
O = 09 50 32.2 ± 0.11s
LAT = 3.16 S ± 1.98km
LONG = 139.77 E ± 1.61km
DEPTH = 57 km ± 0.72km
STATIONS USED = 63, STAND DEV = 1.61s
Ms = 4.6 / 5, m_B = 5.2 / 1

QZN	36.8	308	eP	09 57 35.4	−1.3		
			eS	10 03 15.0	−0.8		
SSE	38.4	334	eP	09 57 51.0	0.9		
			PMZ			0.8	0.034
			esP	09 58 08.0	−2.1		
			PP	09 59 24.0	2.5		
			eS	10 03 42.0	1.7		
			esS	10 04 03.0	−1.2		
			eSS	10 06 24.0	2.3		
			LN	Ms = 4.6		24.0	0.70
NJ2	40.3	332	eP	09 58 07.0	1.4		
			S	10 04 10.0	2.5		
			LN	Ms = 4.9		10.0	0.50
WHN	41.4	326	eP	09 58 16.5	1.7		
GYA	43.5	315	P	09 58 33.6	1.3		
			sP	09 58 51.0	−1.1		

			S	10 04 59.0	4.1		
TIA	44.5	334	eP	09 58 40.0	−0.4		
KMI	45.6	310	eP	09 58 50.0	0.6		
XAN	47.1	324	eP	09 59 00.0	−0.6		
SNY	47.1	343	+iP	09 59 02.1	1.0		
			pP	09 59 15.0	−0.1		
			sP	09 59 21.0	−0.1		
			eS	10 05 47.0	−1.2		
			LN	Ms=4.6		30.0	0.60
TIY	47.9	331	eP	09 59 10.0	2.5		
BJI	48.1	336	eP	09 59 08.5	−0.5		
			esP	09 59 26.0	−3.0		
			eS	10 05 58.0	−4.3		
			SMN	m_B=5.2		8.0	0.28
CD2	48.2	317	eP	09 59 10.4	0.6		
			eS	10 06 06.0	2.2		
CN2	48.5	346	−P	09 59 11.6	−0.1		
			PMZ			3.0	0.20
			pP	09 59 24.0	−1.7		
			eS	10 06 06.0	−1.4		
HHC	50.8	332	eP	09 59 30.0	0.3		
			S	10 06 40.5	2.0		
BTO	51.4	331	eP	09 59 32.0	−1.7		
LZH	51.5	323	P	09 59 35.5	0.8		
GTA	56.1	323	P	10 00 08.0	−0.5		
WMQ	66.0	321	P	10 01 15.8	0.0		
KSH	72.1	313	eP	10 01 55.7	2.2		

1986 5 2
O=09 54 55.3 ± 0.08s
LAT=45.10 N ± 1.79km
LONG=150.46 E ± 0.96km
DEPTH= 34 km ± 0.19km
STATIONS USED = 17, STAND DEV= 1.41s

MDJ	14.8	276	eP	09 58 26.5	2.2		

1986 5 2
O=10 30 00.8 ± 0.11s
LAT=55.29 N ± 2.60km
LONG=163.55 E ± 1.34km
DEPTH= 16 km ± 0.24km
STATIONS USED = 93, STAND DEV= 1.44s
Ms=6.5/45, m_B=6.0/16

MDJ	24.1	258	−P	10 35 16.0	−0.8		
			pP	10 35 23.0	0.0		
			PP	10 35 50.0	−0.5		
			S	10 39 27.0	−3.0		
			sS	10 39 33.0	−8.0		
			SS	10 40 17.0	−4.3		
			SME	m_B=5.9		10.0	4.30
CN2	26.9	261	−P	10 35 41.0	−2.6		
			sP	10 35 51.5	−1.4		
			eS	10 40 09.5	−8.7		
			LN	Ms=6.6		15.0	75.2
SNY	29.2	259	+iP	10 36 03.5	−1.0		
			pP	10 36 10.5	−0.3		
			PP	10 37 00.0	1.4		
			PPP	10 37 10.0			
			S	10 40 56.0	1.4		
			SS	10 42 33.0	7.9		
			LN	Ms=6.4		16.5	37.3
			LE			15.5	29.3
DL2	32.3	257	P	10 36 30.2	−1.5		
			PP	10 37 42.0	3.4		
			S	10 41 40.0	−3.1		
			LN	Ms=6.5		17.0	41.3
			LE			17.0	39.5
BJI	34.6	264	eP	10 36 50.5	−1.1		
			PMZ	m_B=5.6		12.0	1.20
			eS	10 42 20.0	0.3		
			eScS	10 47 14.5	4.1		
			SMN	m_B=5.7		11.0	1.08
			SME			8.0	0.86
			LN	Ms=6.7		14.5	57.6
			LE			14.0	28.6
HHC	36.7	269	P	10 37 09.0	−0.6		
			PP	10 38 39.5	5.5		
			S	10 42 53.0	1.9		
			SMN	m_B=5.8		9.0	1.03
			SME			9.0	1.18
			LN	Ms=6.6		14.0	39.3
			LE			14.0	27.0
TIA	36.7	258	+iP	10 37 09.2	−0.6		
			PP	10 38 39.0	4.5		
			eS	10 42 48.0	−4.6		
			LN	Ms=6.5		15.0	21.5
			LE			16.0	38.1
BTO	37.8	270	−P	10 37 18.5	0.1		
			pP	10 37 25.5	0.8		
			ePP	10 38 46.5	−0.3		
			PcP	10 39 37.0	2.2		
			S	10 43 07.0	−0.1		
			sS	10 43 20.0	1.2		
			LN	Ms=6.7		14.0	42.2
			LE			14.0	29.6
TIY	38.3	264	+P	10 37 23.0	−0.2		
			PMZ			1.2	0.070
			PP	10 38 59.0	5.3		
			PcP	10 39 30.5	−6.1		
			S	10 43 15.0	−0.9		

			LN		Ms=6.6		14.0	42.5
			LE				13.0	15.3
SSE	38.4	249	+P	10 37 24.0		0.7		
			PMZ		m_B=5.9		6.0	1.35
			pP	10 37 32.0		2.2		
			cPP	10 38 54.0		0.0		
			S	10 43 14.0		−2.3		
			sS	10 43 29.0		1.0		
			ScS	10 47 34.0		2.9		
			LN		Ms=6.2		15.0	13.6
			LE				13.0	8.88
NJ2	38.9	252	+P	10 37 25.5		−2.1		
			PP	10 38 57.0		−3.3		
			S	10 43 20.0		−4.1		
			SMN		m_B=6.1		12.0	4.20
WHN	42.5	255	P	10 37 57.5		0.0		
			pP	10 38 07.0		3.0		
			sP	10 38 12.0		4.9		
			S	10 44 14.0		−4.1		
			SMN		m_B=6.1		8.0	2.47
			SS	10 47 14.0		−8.1		
			LE		Ms=6.5		18.0	32.4
XAN	42.9	264	eP	10 38 00.6		−0.7		
			sP	10 38 10.0		−0.7		
			S	10 44 16.0		−8.6		
			LN		Ms=6.6		17.0	3.84
			LE				17.0	41.8
GTA	44.4	277	+iP	10 38 12.8		−0.1		
			PMZ				14.0	1.94
			iS	10 44 42.0		−4.7		
			sS	10 44 55.0		−2.2		
			ScS	10 48 10.5		3.3		
			LE		Ms=6.5		12.0	21.6
LZH	44.4	270	+iP	10 38 13.5		0.5		
			S	10 44 45.0		−0.4		
			ScS	10 48 09.0		1.8		
			LN		Ms=6.7		15.0	35.6
			LE				15.0	19.1
QZH	44.6	246	+iP	10 38 16.0		1.1		
			pP	10 38 22.5		1.1		
WMQ	48.2	290	P	10 38 44.0		1.2		
			PP	10 40 39.0		5.4		
			PcS	10 44 07.0		3.0		
			iS	10 45 40.0		−0.5		
			SMN		m_B=6.0		9.0	1.97
			LN		Ms=6.8		22.0	63.5
			LE				24.0	45.7
CD2	48.2	265	eP	10 38 43.4		0.3		
			PP	10 40 30.0		−3.9		
			S	10 45 39.0		−0.8		
			sS	10 45 48.7		−3.0		
			LN		Ms=6.8		20.0	34.3
			LE				15.0	44.9
GZH	48.9	250	+P	10 38 51.0		2.3		
			PcP	10 40 16.8		4.3		
			S	10 45 54.0		3.8		
			SMN		m_B=6.0		11.0	2.18
			iScS	10 48 45.0		8.3		
			LN		Ms=6.5		15.0	24.6
			LE				13.0	3.87
GYA	49.9	259	P	10 38 58.0		1.4		
			pP	10 39 04.8		1.9		
			S	10 46 10.0		5.9		
			ScS	10 48 45.0		1.6		
			LN		Ms=6.6		17.0	24.8
			LE				17.0	22.6
KMI	53.2	261	+P	10 39 22.0		0.8		
			S	10 46 50.0		1.3		
			SMN		m_B=6.3		8.0	3.10
			LN		Ms=6.7		18.0	42.1
QZN	54.1	250	+P	10 39 30.0		2.2		
			PMZ		m_B=6.5		6.0	3.70
			pP	10 39 38.4		4.0		
			sP	10 39 42.0		4.7		
			PcP	10 40 38.0		6.4		
			S	10 47 00.0		−1.4		
			SMN		m_B=6.3		12.0	4.40
			ScS	10 49 15.5		3.2		
			SS	10 50 37.0		−5.3		
			LN		Ms=6.5		17.0	6.60
			LE				17.0	22.3
LSA	56.3	275	P	10 39 44.0		−0.2		
			pP	10 39 52.0		1.8		
			S	10 47 29.6		−1.0		
			ScS	10 49 29.5		1.7		
			LN		Ms=6.0		14.0	6.08
KSH	57.5	293	+P	10 39 52.7		0.6		
			ScS	10 49 39.7		3.5		
			LE		Ms=6.8		16.0	36.4

1986 5 2

O=12 21 33.2 ± 0.10s
LAT= 3.69 N ± 1.57km
LONG=126.47 E ± 2.58km
DEPTH= 33 km ± 0.24km
STATIONS USED = 49, STAND DEV= 1.73s

QZN	22.3	314	eP	12 26 34.3	5.0
WHN	29.1	338	eP	12 27 33.0	0.0
NJ2	29.1	347	eP	12 27 32.5	−0.9
XAN	34.3	334	eP	12 28 16.3	−3.0

CD2	34.5	324	eP	12 28 20.4	−0.5
DL2	35.3	353	P	12 28 27.4	−0.4
TIY	36.2	341	eP	12 28 35.1	−0.3
BJI	37.4	347	eP	12 28 45.0	0.1
SNY	38.1	356	eP	12 28 50.4	−0.4
LZH	38.4	330	eP	12 28 54.0	0.1
HHC	39.4	342	P	12 29 02.0	0.3
BTO	39.6	340	eP	12 29 04.0	0.1
CN2	40.0	359	eP	12 29 06.0	−0.5
MDJ	40.9	3	eP	12 29 13.5	−0.5
GTA	43.0	329	P	12 29 31.3	−0.5
WMQ	52.6	325	P	12 30 46.6	−0.1

1986 5 2
O = 17 25 10.2 ± 0.16s
LAT = 28.04 N ± 3.24km
LONG = 140.63 E ± 2.90km
DEPTH = 52 km ± 1.21km
STATIONS USED = 28, STAND DEV = 3.07s
Ms = 4.2 / 8, m_B = 5.3 / 2

SSE	17.2	285	eP	17 29 06.0	−2.5		
			esP	17 29 24.0	−0.7		
			SS	17 32 28.0	−9.2		
			eSS	17 32 34.0	−3.2		
			LN	Ms = 4.1		10.0	0.32
DL2	19.2	309	eP	17 29 32.0	−0.4		
			eS	17 33 10.0	9.8		
			SMN	m_B = 5.4		6.0	0.50
			SME			6.0	0.66
CN2	19.9	326	eP	17 29 46.4	5.8		
			eS	17 33 25.0	8.4		
			LN	Ms = 4.1		10.0	0.30
TIA	21.5	298	eP	17 29 56.0	−0.6		
			eS	17 33 53.0	6.6		
			LE	Ms = 4.4		9.0	0.48
WHN	23.0	283	eP	17 30 13.5	1.4		
BJI	23.5	307	P	17 30 17.0	0.9		
			eS	17 34 27.5	5.4		
			SMN	m_B = 5.1		7.0	0.39
TIY	25.5	299	eP	17 30 38.0	2.2		
			sS	17 35 17.0	−0.5		
			LE	Ms = 4.1		12.0	0.24
HHC	27.0	306	P	17 30 49.0	−1.1		
BTO	28.1	305	eP	17 30 54.0	−5.5		
LZH	32.0	294	eP	17 31 35.5	0.7		
GTA	35.5	299	eP	17 32 04.4	−0.3		
WMQ	44.9	305	P	17 33 22.5	0.3		

1986 5 2
O = 22 00 11.3 ± 0.15s
LAT = 28.33 N ± 3.64km
LONG = 53.29 E ± 2.11km
DEPTH = 32 km ± 0.26km
STATIONS USED = 15, STAND DEV = 2.81s

KSH	21.8	54	eP	22 05 05.6	2.8
GTA	39.8	61	eP	22 07 44.4	0.9
XAN	47.4	69	eP	22 08 45.4	0.1
TIY	49.7	63	eP	22 09 04.6	1.4

1986 5 2
O = 23 22 17.6 ± 0.20s
LAT = 24.70 N ± 0.86km
LONG = 121.64 E ± 1.09km
DEPTH = 22 km ± 0.55km
STATIONS USED = 9, STAND DEV = 4.74s
M_L = 3.1 / 5,

QZH	2.8	276	ePn	23 23 01.6	0.3		
			Sn	23 23 35.8	−0.1		
			SMN	M_L = 3.2		1.0	0.14
			SME			0.7	0.060
SSE	6.4	357	ePn	23 23 52.5	1.6		
			LE			1.2	0.019

1986 5 3
O = 05 40 25.2 ± 0.03s
LAT = 24.36 N ± 0.35km
LONG = 122.42 E ± 0.31km
DEPTH = 3 km ± 0.49km
STATIONS USED = 5, STAND DEV = 3.81s
Ms = 4.1 / 2,

SSE	6.8	351	ePn	05 42 07.5	1.4		
			LN	Ms = 3.8		10.0	0.49
			LE			12.0	0.90
GTA	24.3	314	P	05 45 31.1	−13.4		
			LN	Ms = 4.3		12.0	0.38

1986 5 3
O = 05 58 07.0 ± 0.15s
LAT = 11.10 S ± 3.28km
LONG = 166.34 E ± 2.62km
DEPTH = 134 km ± 1.88km
STATIONS USED = 22, STAND DEV = 1.80s

MDJ	64.7	332	eP	06 08 31.5	−1.8
CN2	66.1	329	+P	06 08 40.8	−1.6
XAN	70.6	312	eP	06 09 09.2	−1.1
CD2	73.1	307	eP	06 09 25.0	−0.2
LZH	75.2	312	P	06 09 38.0	0.4
GTA	79.5	314	+iP	06 10 10.3	10.1

1986 5 3

O=06 18 58.3 ± 0.13s
LAT=37.01 N ± 1.18km
LONG= 71.26 E ± 1.26km
DEPTH= 97 km ± 0.85km
STATIONS USED = 41, STAND DEV= 1.89s
M_L=5.1 / 2,

KSH	4.5	55	-P	06 20 09.0	3.9		
			S	06 21 00.0	4.2		
			SME	M_L=5.5	0.5	8.60	
WMQ	14.2	56	P	06 22 15.5	-1.3		
			S	06 24 53.5	1.3		
			sS	06 25 15.0	2.9		
			LN		15.0	0.030	
GTA	22.5	75	-iP	06 23 52.6	1.4		
LZH	26.1	82	eP	06 24 26.5	0.9		
CD2	27.6	93	P	06 24 39.1	0.7		
XAN	30.7	84	eP	06 25 05.2	-1.0		
GYA	31.7	99	eP	06 25 16.4	0.8		

1986 5 3
O=07 15 46.1 ± 0.12s
LAT=36.30 N ± 1.55km
LONG= 71.28 E ± 1.81km
DEPTH= 36 km ± 0.41km
STATIONS USED = 16, STAND DEV= 2.83s
M_L=4.0 / 1,

KSH	4.9	48	eP*	07 17 09.3	3.8		
			S*	07 18 05.8	1.9		
			SMN	M_L=4.0	0.2	0.20	
			SME		0.2	0.20	
WMQ	14.6	54	P	07 19 14.5	1.8		
GTA	22.7	73	P	07 20 49.2	2.9		

1986 5 3
O=10 37 41.5 ± 0.09s
LAT=28.05 N ± 2.05km
LONG= 53.29 E ± 1.21km
DEPTH= 30 km ± 0.16km
STATIONS USED = 84, STAND DEV= 1.05s
Ms=5.1 / 25, m_B=5.6 / 2

KSH	22.0	53	--P	10 42 35.0	0.0		
			eS	10 46 36.0	4.8		
			LE	Ms=5.6	12.0	9.20	
WMQ	31.7	51	+iP	10 44 06.0	0.5		
			sP	10 44 17.9	0.2		
			S	10 49 15.0	3.6		
			sS	10 49 17.8	-8.8		
			LN	Ms=5.1	13.0	1.83	
LSA	33.1	78	P	10 44 16.6	-1.2		
GTA	39.9	61	+iP	10 45 16.0	0.8		
			PcS	10 51 10.0	0.8		
			eS	10 51 23.0	4.4		
			LE	Ms=5.1	12.0	0.95	
LZH	43.2	66	+iP	10 45 43.0	1.0		
			cPP	10 47 27.0	2.6		
			S	10 52 09.0	3.5		
			LE	Ms=5.1	11.0	0.75	
CD2	43.7	74	eP	10 45 46.0	-0.3		
			S	10 52 08.7	-4.8		
KMI	44.1	82	+P	10 45 49.0	-0.4		
			PP	10 47 33.5	0.2		
			eS	10 52 24.0	4.0		
GYA	47.2	79	P	10 46 12.8	-0.9		
			sP	10 46 24.4	-1.6		
			S	10 53 04.0	1.4		
			sS	10 53 12.0	-6.1		
XAN	47.5	68	+iP	10 46 16.2	-0.5		
			PP	10 48 09.0	2.2		
			S	10 53 10.0	1.9		
			LE	Ms=5.0	14.0	0.67	
BTO	47.7	59	cP	10 46 18.8	0.5		
			csP	10 46 29.0	-1.7		
			eS	10 53 09.0	-3.2		
HHC	48.9	59	+P	10 46 27.5	0.2		
			S	10 53 33.0	5.8		
			LE	Ms=5.2	15.0	1.21	
TIY	49.9	63	+P	10 46 35.0	0.2		
			PMZ		1.0	0.080	
			PP	10 48 33.5	3.8		
			S	10 53 46.0	5.3		
			SS	10 57 18.0	8.0		
			LN	Ms=5.1	13.0	0.79	
QZN	52.2	87	eP	10 46 52.0	-0.5		
BJI	52.5	59	cP	10 46 54.0	-0.4		
			ePcP	10 48 05.0	0.9		
			eS	10 54 20.0	2.3		
			LN	Ms=4.9	15.0	0.54	
WHN	52.7	72	P	10 46 55.6	-0.6		
			sP	10 47 06.0	-2.8		
			eS	10 54 21.0	-0.1		
			LN	Ms=5.0	12.0	0.55	
TIA	53.8	64	+P	10 47 04.2	-0.1		
			csP	10 47 15.0	-1.9		
			eS	10 54 27.5	-8.5		
			LE	Ms=5.4	16.0	1.80	
GZH	53.9	81	P	10 47 05.5	0.3		
NJ2	56.1	69	-P	10 47 20.6	-0.4		
			LN	Ms=5.1	11.0	0.51	
DL2	56.8	60	P	10 47 26.2	0.1		
			LN	Ms=5.1	18.0	0.89	

SNY	57.8	56	eP	10 47 31.3	−1.3		
			pP	10 47 38.5	−3.0		
			eS	10 55 20.0	−8.3		
			LE	Ms = 5.4		20.0	1.91
SSE	58.3	69	P	10 47 36.0	−0.4		
			PMZ			1.2	0.049
			epP	10 47 45.0	−0.3		
			esP	10 47 50.0	1.0		
			eS	10 55 32.0	−3.2		
			eSS	10 59 27.0	−0.7		
			LN	Ms = 5.2		24.0	1.28
CN2	58.8	54	+P	10 47 38.6	−1.1		
			PMZ	m_B = 5.8		3.5	0.40
			sP	10 47 50.0	−2.3		
			eS	10 55 40.0	−1.5		
MDJ	61.5	52	eP	10 47 57.0	−1.6		
			S	10 56 16.0	0.2		
			SS	11 00 20.0	1.6		

1986 5 3
O = 12 54 42.0 ± 0.10s
LAT = 18.44 N ± 1.99km
LONG = 120.42 E ± 1.80km
DEPTH = 43 km ± 1.20km
STATIONS USED = 42, STAND DEV = 1.92s
M_L = 4.1 / 4,

QZH	6.7	346	eP	12 56 19.0	−1.4		
			S	12 57 29.0	−6.5		
			SMN	M_L = 3.5		0.3	0.010
			SME			0.3	0.040
GZH	8.1	306	+P	12 56 37.5	−2.2		
			S	12 58 02.0	−7.8		
			LN			1.0	0.21
			LE			1.0	0.19
QZN	10.0	275	+P	12 57 05.1	−1.7		
			S	12 58 57.4	−1.0		
			SMN			0.6	0.25
			SME			0.6	0.33
GYA	15.0	305	P	12 58 14.6	1.3		
KMI	17.7	295	eP	12 58 50.0	2.4		
TIA	17.9	351	eP	12 58 51.5	1.3		
XAN	18.6	329	eP	12 58 57.8	−0.8		
CD2	19.6	313	eP	12 59 09.9	0.7		
TIY	20.4	342	eP	12 59 19.0	0.3		
BJI	21.8	351	eP	12 59 32.0	−0.8		
LZH	22.9	324	eP	12 59 44.5	1.2		
HHC	23.6	343	P	12 59 51.0	0.8		
BTO	23.8	340	eP	12 59 53.0	0.5		
CN2	25.6	8	eP	13 00 09.0	−0.7		
GTA	27.5	324	P	13 00 26.9	0.0		

1986 5 4
O = 09 01 27.5 ± 0.14s
LAT = 54.53 S ± 2.98km
LONG = 118.82 W ± 2.67km
DEPTH = 10 km ± 0.74km
STATIONS USED = 10, STAND DEV = 2.51s

LZH	145.5	255	eP	09 21 07.5	0.2	
GTA	150.1	256	P	09 21 19.6	4.8	

1986 5 4
O = 09 13 15.2 ± 0.15s
LAT = 42.42 N ± 1.39km
LONG = 84.80 E ± 0.93km
DEPTH = 2 km ± 0.44km
STATIONS USED = 9, STAND DEV = 2.45s
M_L = 3.6 / 7,

WMQ	2.5	56	+iP	09 13 59.2	0.8		
			Pg	09 14 01.3	1.2		
			Sg	09 14 36.0	1.2		
			SME	M_L = 3.6		0.5	0.34

1986 5 4
O = 09 35 24.3 ± 0.09s
LAT = 32.17 N ± 1.64km
LONG = 141.63 E ± 1.54km
DEPTH = 26 km ± 0.37km
STATIONS USED = 76, STAND DEV = 1.48s
Ms = 4.9 / 28, m_B = 5.3 / 3

MDJ	15.6	326	+P	09 39 04.0	−0.1		
			eSS	09 42 06.0	−7.9		
CN2	17.2	317	+P	09 39 23.5	−1.3		
			LN	Ms = 4.8		10.0	1.70
SNY	17.3	309	+iP	09 39 27.5	1.4		
			S	09 42 38.0	2.2		
			LN	Ms = 4.8		15.0	2.11
			LE			18.0	1.41
SSE	17.4	272	eP	09 39 29.8	2.1		
			PMZ			1.2	0.052
			sP	09 39 42.0	3.4		
			esS	09 42 52.0	1.9		
			eSS	09 43 03.0	2.5		
			e	09 44 04.0			
			LN	Ms = 4.7		13.0	1.32
			LE			14.0	1.40
DL2	17.6	298	P	09 39 31.0	1.4		
			S	09 42 44.0	1.8		
			LE	Ms = 5.1		13.0	4.66
NJ2	19.3	276	+P	09 39 49.0	−1.2		
			LN	Ms = 4.9		11.0	2.00

TIA	20.7	288	eP	09 40 04.3	−0.6	
			eS	09 43 48.0	−1.6	
			LN	Ms=5.2	14.0	0.99
			LE		14.0	4.34
QZH	21.5	256	eP	09 40 10.0	−3.0	
			LN	Ms=4.7	16.0	1.19
			LE		16.0	1.19
BJI	22.0	298	eP	09 40 17.0	−1.1	
			eS	09 44 10.0	−4.3	
			LN	Ms=4.7	12.0	1.10
			LE		11.0	0.51
WHN	23.3	273	eP	09 40 31.2	−0.4	
			eS	09 44 39.0	0.0	
			LN	Ms=4.7	13.0	1.02
HHC	25.6	298	−iP	09 40 53.2	−0.2	
			S	09 45 17.5	1.1	
			LN	Ms=4.8	15.0	1.46
BTO	26.7	297	eP	09 41 04.0	0.2	
			eS	09 45 32.0	−3.9	
			LN	Ms=5.0	14.0	1.10
			LE		14.0	1.80
XAN	27.4	283	eP	09 41 08.8	−1.4	
			S	09 45 41.0	−5.4	
			LE	Ms=4.9	14.0	1.34
GYA	30.9	268	P	09 41 42.0	0.2	
			S	09 46 39.0	−3.4	
			LN	Ms=5.0	14.0	1.20
			LE		14.0	1.00
QZN	31.4	253	eP	09 41 48.0	2.3	
			eS	09 46 53.0	2.5	
			eSS	09 48 43.0	5.6	
			LN	Ms=4.8	17.0	0.90
			LE		17.0	0.80
LZH	31.4	288	P	09 41 45.5	−0.5	
			S	09 46 47.0	−2.8	
			LN	Ms=5.1	14.0	1.86
CD2	32.2	278	eP	09 41 52.0	−0.9	
			eS	09 46 59.1	−4.2	
			LN	Ms=5.2	14.0	2.02
GTA	34.4	294	+iP	09 42 11.6	−0.8	
			LE	Ms=5.1	14.0	1.62
WMQ	43.4	302	+P	09 43 28.0	1.2	
KSH	52.7	298	+P	09 44 41.0	1.5	

1986 5 4
O=12 25 44.4 ± 0.10s
LAT=28.58 N ± 1.61km
LONG=140.58 E ± 1.62km
DEPTH= 56 km ± 0.39km
STATIONS USED = 70, STAND DEV= 1.34s

Ms=4.8/28, m_B=5.7/29

SSE	17.0	283	−iP	12 29 41.0	0.9	
			PMZ	m_B=5.4	8.0	1.64
			sP	12 29 53.0	−4.4	
			csS	12 33 00.0	−2.2	
			SS	12 33 08.0	1.4	
			LN	Ms=4.6	10.0	1.20
MDJ	18.2	334	eP	12 29 54.0	−1.4	
			PP	12 30 14.0	3.5	
			S	12 33 22.5	10.0	
			LE	Ms=4.6	12.0	1.27
DL2	18.8	308	−iP	12 30 02.0	0.1	
			PMZ	m_B=5.7	6.0	2.15
			sP	12 30 14.0	−5.4	
			S	12 33 34.0	9.2	
			SMN	m_B=5.9	8.0	1.89
			SME		8.0	2.99
			LN	Ms=4.7	12.0	1.43
NJ2	19.1	286	−P	12 30 06.0	0.9	
			PMZ	m_B=5.9	5.0	3.30
			LN	Ms=4.9	11.0	2.30
SNY	19.1	318	−iP	12 30 05.0	−0.8	
			pP	12 30 14.0	−2.6	
			S	12 33 30.5	−1.7	
			LN	Ms=4.9	12.0	1.69
			LE		11.0	1.66
CN2	19.4	325	−P	12 30 07.0	−2.2	
			PMZ	m_B=5.2	5.0	0.70
			eS	12 33 42.0	2.3	
			SMN	m_B=5.6	6.0	1.20
			LN	Ms=4.9	10.0	2.00
QZH	20.0	265	−P	12 30 13.0	−1.8	
			S	12 33 48.0	−2.2	
			sS	12 34 10.5	1.7	
			SS	12 34 20.0	0.1	
			LN	Ms=4.4	9.0	0.55
TIA	21.2	297	eP	12 30 28.1	0.7	
			PMZ	m_B=5.7	6.0	2.21
			eS	12 34 23.0	8.7	
			SMN	m_B=5.8	7.0	0.89
			SME		6.0	1.52
			SS	12 34 52.5	3.2	
			LN	Ms=4.8	9.0	0.30
			LE		10.0	1.06
WHN	22.9	281	eP	12 30 45.5	1.3	
			PMZ	m_B=5.6	8.0	2.56
			PP	12 31 20.0	5.9	
			S	12 34 52.0	7.5	
			SMN	m_B=5.8	8.0	2.12
			LN	Ms=4.9	10.0	1.48

BJI	23.1	306	cP	12 30 46.0	−0.3		
			PMZ	m_B = 5.4		6.0	1.17
			SMN	m_B = 5.8		7.0	1.83
			SME			9.0	1.16
			LN	Ms = 4.7		11.0	0.93
GZH	25.1	264	−P	12 31 06.0	0.4		
			PMZ	m_B = 5.7		5.0	1.18
			eS	12 35 30.0	6.8		
			sS	12 35 41.0	−4.6		
			SME	m_B = 5.6		7.0	1.19
TIY	25.2	298	−iP	12 31 07.0	0.4		
			PMZ	m_B = 5.8		6.0	1.73
			LN	Ms = 4.7		12.0	0.96
HHC	26.7	305	P	12 31 20.0	−0.5		
			S	12 35 52.0	3.4		
			LN	Ms = 4.8		12.0	0.32
			LE			12.0	0.91
XAN	27.5	289	−P	12 31 27.6	−0.6		
			PMZ	m_B = 5.6		6.0	0.79
BTO	27.7	304	eP	12 31 30.2	0.1		
			PMZ	m_B = 5.8		6.0	1.30
			eS	12 36 09.0	2.4		
QZN	29.6	258	P	12 31 47.5	0.7		
			S	12 36 39.0	3.4		
			LN	Ms = 4.8		12.0	0.50
			LE			12.0	0.60
GYA	30.1	274	P	12 31 52.0	0.7		
			S	12 36 45.0	1.7		
			LN	Ms = 4.7		12.0	0.60
			LE			12.0	0.40
LZH	31.8	293	eP	12 32 06.0	−0.3		
			PP	12 33 10.5	−1.2		
			eS	12 37 17.0	6.0		
			LE	Ms = 5.1		16.0	1.86
CD2	32.0	283	eP	12 32 07.2	−0.5		
			eS	12 37 15.2	1.6		
			sS	12 37 30.0	−6.7		
			LE	Ms = 5.0		11.0	1.16
KMI	33.8	273	eP	12 32 20.0	−4.1		
GTA	35.2	299	−iP	12 32 35.4	−0.4		
			PMZ	m_B = 5.9		5.0	0.96
			iPP	12 34 04.2	9.3		
			PPMZ			10.0	0.84
			S	12 38 08.0	5.0		
			SMN	m_B = 5.3		7.0	0.47
			LN	Ms = 4.8		10.0	0.53
WMQ	44.6	305	−P	12 33 53.0	−0.1		
			PMZ			2.0	0.081
			PP	12 35 40.0	2.0		
			S	12 40 30.0	7.3		

KSH	53.6	300	−P	12 35 03.9	1.0		
			PP	12 37 07.9	3.8		
			ScS	12 44 48.9	6.7		

1986 5 4
O = 12 33 04.0 ± 0.06s
LAT = 11.72 N ± 0.95km
LONG = 142.00 E ± 1.30km
DEPTH = 50 km ± 0.14km
STATIONS USED = 64, STAND DEV = 0.85s
Ms = 4.7 / 4,

SSE	27.2	318	P	12 38 45.5	−0.2		
			pPP	12 38 59.5			
			LN	Ms = 4.7		10.0	0.67
NJ2	29.4	317	−P	12 39 05.0	0.0		
QZN	31.8	287	eP	12 39 27.6	1.2		
DL2	32.6	330	P	12 39 34.0	0.8		
TIA	33.1	322	eP	12 39 37.5	−0.6		
MDJ	34.5	344	eP	12 39 49.0	−0.4		
			PcP	12 42 23.0	−0.2		
CN2	35.0	339	+P	12 39 53.4	−0.7		
			PcP	12 42 24.2	−0.6		
BJI	36.3	326	eP	12 40 05.0	0.2		
GYA	36.3	299	P	12 40 06.4	1.0		
			sP	12 40 29.0	6.0		
			PcP	12 42 30.0	1.4		
			S	12 45 45.0	4.1		
TIY	37.0	319	P	12 40 11.4	0.3		
XAN	37.4	312	+P	12 40 14.0	−0.7		
			pP	12 40 27.5	0.4		
			PcP	12 42 32.0	0.0		
KMI	39.4	295	+P	12 40 32.5	1.2		
			PcP	12 42 39.5	1.3		
HHC	39.5	323	P	12 40 32.0	0.5		
CD2	40.2	304	+iP	12 40 37.6	0.3		
			pP	12 40 52.0	2.3		
BTO	40.2	321	eP	12 40 38.6	0.6		
LZH	42.1	312	eP	12 40 53.5	0.2		
GTA	46.4	314	+iP	12 41 27.6	−0.3		
			PcP	12 43 02.3	0.8		
			ScP	12 46 49.6	0.7		
			S	12 48 09.8	0.2		
			ScS	12 51 16.1	1.6		
WMQ	56.4	315	P	12 42 43.0	−0.6		
			PMZ			2.0	0.51
			sP	12 43 07.8	6.2		
			ScS	12 52 25.0	1.7		

1986 5 4
O = 15 05 06.5 ± 0.09s

LAT = 32.54 N ± 0.81km
LONG = 103.73 E ± 1.00km
DEPTH = 8 km ± 0.23km
STATIONS USED = 17, STAND DEV = 3.40s
Ms = 3.5 / 1, M_L = 3.9 / 5,

CD2	1.6	180	Pn	15 05 36.6	0.7		
			Pg	15 05 38.4	3.1		
			Sn	15 06 00.0	1.3		
			SMN	M_L = 3.6		1.0	0.74
			SME			0.8	0.60
LZH	3.5	2	cPn	15 06 02.5	0.3		
			Pg	15 06 10.0	1.0		
			Sg	15 06 58.0	0.7		
			SMN			6.0	0.91
			SME			6.0	1.02
			LG_2	15 07 04.2	1.0		
XAN	4.6	70	Pn	15 06 18.0	1.3		
			Pg	15 06 31.5	3.8		
			Sg	15 07 33.0	2.4		
GYA	6.6	156	Pn	15 06 45.6	1.6		
			Sn	15 08 01.4	0.0		
			Sg	15 08 40.0	7.4		
			SMN	M_L = 4.1		1.2	0.090
			SME			1.2	0.10
GTA	7.6	336	Pg	15 07 23.8	3.7		
			LE	Ms = 3.5		8.0	0.27

1986 5 4
O = 20 30 43.4 ± 0.12s
LAT = 49.01 S ± 2.01km
LONG = 108.63 E ± 1.76km
DEPTH = 8 km ± 0.31km
STATIONS USED = 39, STAND DEV = 1.09s

KMI	74.0	354	eP	20 42 22.5	0.3		
GYA	75.1	358	P	20 42 28.8	0.0		
WHN	79.4	5	P	20 42 52.5	0.3		
SSE	80.5	11	P	20 42 58.5	0.0		
			PMZ			1.2	0.017
			sP	20 43 04.7	−1.5		
			eS	20 53 06.0	1.5		
			SS	20 58 25.0	7.0		
NJ2	81.2	9	+P	20 43 03.4	1.3		
XAN	82.7	0	eP	20 43 09.0	−0.8		
LZH	84.8	356	+iP	20 43 21.0	0.2		
TIA	85.2	7	eP	20 43 22.5	0.1		
TIY	86.4	3	eP	20 43 28.4	−0.2		
GTA	88.4	353	+P	20 43 37.7	−0.5		
			S	20 54 23.0	2.5		
BJI	88.9	6	eP	20 43 40.0	−0.6		
			eS	20 54 28.0	0.9		
BTO	89.2	1	eP	20 43 42.0	−0.2		
HHC	89.5	2	eP	20 43 42.5	−1.0		
CN2	93.6	12	+P	20 44 02.0	−0.3		
WMQ	94.2	345	P	20 44 05.5	0.1		
			PMZ			2.0	0.23
			eS	20 55 19.0	4.3		
MDJ	95.0	15	eP	20 44 04.5	−4.3		

1986 5 5
O = 03 35 37.2 ± 0.12s
LAT = 38.03 N ± 2.60km
LONG = 37.68 E ± 1.46km
DEPTH = 8 km ± 0.09km
STATIONS USED = 89, STAND DEV = 1.08s
Ms = 6.2 / 45, m_B = 6.2 / 32

KSH	29.8	75	−P	03 41 48.0	1.1		
			cPP	03 42 42.0	−0.8		
			LN	Ms = 6.4		14.0	41.7
WMQ	37.8	65	+iP	03 42 57.0	1.1		
			PMZ			2.0	1.03
			PP	03 44 26.0	1.8		
			S	03 48 48.0	2.5		
			LN	Ms = 6.4		22.0	45.4
LSA	44.6	84	+iP	03 43 52.5	−0.6		
			S	03 50 30.5	2.7		
			LN	Ms = 6.0		20.0	11.2
GTA	47.6	68	+P	03 44 16.8	0.4		
			PMZ	m_B = 6.1		8.0	2.43
			iPP	03 46 08.5	2.2		
			PPMZ			7.0	2.90
			SMN			22.0	3.53
			SS	03 54 37.0	4.5		
			LN	Ms = 6.0		13.0	7.51
LZH	51.8	71	+iP	03 44 49.0	0.5		
			PP	03 46 46.0	0.1		
			S	03 52 10.0	1.5		
			SS	03 55 49.0	6.2		
			LN	Ms = 6.4		16.0	17.0
CD2	53.9	76	P	03 45 04.2	0.1		
			−P	03 45 07.4	4.0		
			iS	03 52 38.0	−0.6		
			ScS	03 54 53.0	3.4		
			LE	Ms = 6.2		13.0	8.26
KMI	55.9	83	+P	03 45 18.0	−0.5		
			PMZ	m_B = 6.2		6.0	2.30
			PP	03 47 26.0	2.3		
			ScP	03 50 10.0	−4.0		
			PcS	03 50 16.0	1.0		
			S	03 53 06.0	2.5		
			SME	m_B = 6.1		9.0	2.00

			SS	03 56 56.0	7.0		
			LN	Ms=6.1		21.0	11.1
XAN	56.4	71	+P	03 45 22.0	−0.4		
			pP	03 45 25.0	−2.6		
			S	03 53 10.0	−1.0		
			SMN	m_B=6.0		11.0	1.58
			SME			10.0	1.05
			ScS	03 55 10.0	2.5		
			LN	Ms=6.2		17.0	6.12
			LE			15.0	8.70
TIY	57.4	65	−iP	03 45 30.0	0.6		
			PMZ			1.6	27.1
			PP	03 47 40.0	2.4		
			iS	03 53 29.5	4.2		
			SMN	m_B=6.1		11.0	1.95
			SME			9.0	1.89
			ScS	03 55 12.0	−2.6		
			LN	Ms=6.4		15.0	9.98
			LE			15.5	8.88
GYA	58.3	80	+P	03 45 34.0	−1.5		
			pP	03 45 38.0	−2.5		
			S	03 53 35.0	−0.1		
			ScS	03 55 25.0	4.1		
			LN	Ms=6.2		17.0	7.20
			LE			17.0	7.10
BJI	59.1	61	eP	03 45 40.5	−0.3		
			PMZ	m_B=6.2		7.0	2.12
			ePP	03 47 54.0	1.7		
			eS	03 53 48.0	1.4		
			SMN	m_B=6.1		11.0	1.61
			SME			9.0	1.57
			eSS	03 57 50.0	9.0		
			LN	Ms=6.6		18.0	22.3
			LE			17.0	8.59
TIA	61.5	65	eP	03 45 56.4	−0.8		
			PMZ	m_B=6.5		6.0	4.24
			eSP	03 46 03.5			
			ePP	03 48 14.0	0.2		
			PPMZ			6.0	0.85
			eS	03 54 13.0	−4.3		
			SMN	m_B=6.0		10.0	1.04
			SME			9.0	1.45
			LN	Ms=6.3		14.0	1.07
			LE			14.0	8.87
WHN	62.1	72	+iP	03 46 02.0	0.2		
			PMZ	m_B=6.4		6.0	2.77
			PP	03 48 23.0	3.1		
			S	03 54 28.0	3.3		
			SMN	m_B=5.9		10.0	1.48
			LN	Ms=6.3		20.0	10.5
			LE			20.0	7.20
SNY	63.3	57	+iP	03 46 08.3	−0.9		
			PMZ	m_B=6.3		6.0	2.13
			PP	03 48 30.5	1.4		
			S	03 54 41.0	2.1		
			SMN	m_B=6.1		11.0	1.61
			SME			9.0	1.08
			ScS	03 55 55.5	−2.5		
			SS	03 58 57.0	9.9		
			LN	Ms=7.1		18.0	33.3
			LE			17.0	58.6
DL2	63.3	60	+iP	03 46 09.0	−0.7		
			S	03 54 40.0	0.2		
			LN	Ms=6.2		15.0	4.37
			LE			15.0	7.01
CN2	63.5	54	+iP	03 46 10.0	−1.1		
			PMZ	m_B=6.5		5.0	2.80
			pP	03 46 13.0	−3.4		
			PP	03 48 32.0	0.3		
			eS	03 54 43.0	−0.7		
			SMN			14.0	4.30
			SS	03 58 53.0	1.9		
			LE	Ms=6.6		15.0	17.5
QZN	64.7	85	+P	03 46 18.0	−0.5		
			PMZ	m_B=6.0		7.0	1.50
			PP	03 48 40.0	−1.9		
			eS	03 54 53.0	−4.7		
			SMN	m_B=6.0		11.0	1.50
			SME			11.0	1.20
			LN	Ms=6.0		18.0	4.10
			LE			18.0	3.70
NJ2	64.7	68	−iP	03 46 18.0	−0.8		
			PMZ	m_B=6.3		5.0	2.00
			PP	03 48 45.0	2.7		
			S	03 55 00.0	3.0		
			LN	Ms=6.2		16.0	7.40
GZH	65.2	79	+P	03 46 21.5	−0.4		
			S	03 55 08.0	5.1		
			SMN	m_B=6.2		12.0	1.96
			SME			10.0	1.90
			LN	Ms=6.4		19.0	10.3
			LE			20.0	10.4
MDJ	65.8	52	+P	03 46 25.0	−0.5		
			PMZ	m_B=6.1		6.0	1.49
			sP	03 46 32.0	−1.3		
			PP	03 48 53.0	1.3		
			PcS	03 51 08.0	9.3		
			iS	03 55 12.0	1.0		
			SMN	m_B=6.0		10.0	1.40
SSE	66.9	68	+iP	03 46 32.0	−0.9		

			PMZ			1.7	0.46
			pP	03 46 36.0	−2.2		
			esP	03 46 38.0	−2.7		
			ePP	03 49 01.0	−0.1		
			PcS	03 51 04.0	0.1		
			S	03 55 28.0	4.2		
			SMN	m_B = 6.2		8.0	1.27
			SME			8.0	1.40
			ScS	03 56 32.0	6.0		
			eSS	03 59 44.0	0.2		
			LN	Ms = 6.2		10.0	0.67
			LE			14.0	5.85
QZH	68.2	75	+iP	03 46 40.0	−1.3		
			pP	03 46 44.0	−2.5		
			PP	03 49 16.0	3.0		
			S	03 55 42.0	2.3		
			SS	04 00 13.0	9.1		
			LN	Ms = 6.1		15.0	4.65
			LE			16.0	3.05

1986 5 5
O = 04 24 47.6 ± 0.05s
LAT = 13.75 S ± 0.59km
LONG = 167.37 E ± 1.34km
DEPTH = 216 km ± 0.20km
STATIONS USED = 24, STAND DEV = 0.80s

CN2	68.9	329	eP	04 35 31.0	−0.3		
GYA	71.2	304	P	04 35 45.8	−0.1		
XAN	73.1	312	+P	04 35 56.6	−0.3		

1986 5 5
O = 05 46 36.2 ± 0.29s
LAT = 18.25 N ± 2.44km
LONG = 102.66 W ± 2.33km
DEPTH = 30 km ± 2.62km
STATIONS USED = 31, STAND DEV = 2.05s
Ms = 6.2 / 6,

SSE	115.3	319	ePKP	06 05 13.0	−3.0		
			eSKS	06 12 22.0	−0.3		
			eSS	06 22 14.0	0.9		
			LN	Ms = 6.2		16.0	2.44
			LE			16.0	2.18
NJ2	116.1	321	−PKP	06 05 16.0	−1.4		
			LN	Ms = 6.1		15.0	2.30
WMQ	117.5	352	PKP	06 05 20.5	0.2		
			PP	06 06 30.5	−5.6		
			SKS	06 12 30.0	3.4		
GTA	118.9	340	ePKP	06 05 23.6	0.5		
			PP	06 06 44.0	−2.0		
			PS	06 16 31.0			
XAN	119.9	330	ePKP	06 05 23.0	−2.0		
			PP	06 06 48.5	−3.5		
			LN	Ms = 6.4		15.0	3.96
			LE			16.0	2.35
LZH	120.4	335	−PKP	06 05 27.5	1.4		
KSH	122.6	1	ePKP	06 05 32.0	1.8		
			ePP	06 07 06.0	−4.6		
CD2	124.9	332	PKP	06 05 36.1	1.5		
			PP	06 07 22.0	−4.0		
			LE	Ms = 6.2		16.0	2.96
GYA	127.2	327	−PKP	06 05 39.8	0.6		
			PP	06 07 40.0	−0.9		
			LN	Ms = 6.3		17.0	2.20
			LE			17.0	2.40
QZN	131.1	318	ePKP	06 05 39.5	−6.9		
			PP	06 08 01.0	−6.1		
			SS	06 25 25.0	−7.9		
			LN	Ms = 6.2		16.0	2.00
			LE			16.0	1.40

1986 5 5
O = 06 21 34.9 ± 0.15s
LAT = 36.27 N ± 1.97km
LONG = 71.21 E ± 2.26km
DEPTH = 127 km ± 0.67km
STATIONS USED = 32, STAND DEV = 3.44s
M_L = 5.1 / 2,

KSH	4.9	48	−P	06 22 50.7	2.3		
			S	06 23 45.7	1.2		
			SME	M_L = 5.4		0.5	4.90
WMQ	14.7	54	P	06 24 55.8	−2.0		
			S	06 27 29.0	−8.1		
			LN			15.0	0.040
LSA	18.0	106	P	06 25 36.6	−1.7		
GTA	22.8	73	P	06 26 30.0	2.6		
LZH	26.3	81	eP	06 27 06.0	5.3		
XAN	30.8	83	−iP	06 27 41.6	0.6		
GYA	31.7	98	−P	06 28 07.8	19.7		

1986 5 5
O = 06 22 59.4 ± 0.05s
LAT = 30.47 N ± 0.97km
LONG = 137.79 E ± 0.91km
DEPTH = 485 km ± 0.37km
STATIONS USED = 39, STAND DEV = 0.95s

SSE	14.3	277	eP	06 26 01.5	−1.7
MDJ	15.5	338	+P	06 26 16.0	0.1
SNY	16.1	319	+iP	06 26 22.1	0.5
			S	06 29 09.0	4.2
NJ2	16.3	280	+iP	06 26 23.0	−0.3

CN2	16.5	327	+P	06 26 26.3	0.5		
TIA	18.2	294	eP	06 26 42.5	0.3		
WHN	20.2	276	P	06 27 02.0	0.6		
			S	06 30 12.0	−3.9		
			LN			16.0	3.19
XAN	24.6	286	−iP	06 27 41.6	−0.6		
GYA	27.6	269	−P	06 28 07.8	−0.8		
CD2	29.2	280	−iP	06 28 22.2	−0.3		
			PMZ			0.6	0.10

1986 5 5
O = 06 30 17.9 ± 0.14s
LAT = 58.91 S ± 3.19km
LONG = 24.71 W ± 3.99km
DEPTH = 9 km ± 0.48km
STATIONS USED = 23, STAND DEV = 2.63s
Ms = 6.2 / 1,

GTA	140.2	94	PKP	06 49 47.2	−1.3		
XAN	140.7	108	ePKP	06 49 51.6	2.4		
SSE	143.9	125	ePKP	06 49 53.6	−1.0		
			ePP	06 53 12.0	1.4		
BTO	146.3	103	PKP	06 49 59.0	0.0		
TIA	146.4	115	ePKP	06 49 58.9	−0.1		
HHC	147.3	104	ePKP	06 50 02.0	1.3		
BJI	149.0	110	ePKP	06 50 05.5	2.3		
DL2	150.7	118	ePKP	06 50 10.5	4.7		
			LN	Ms = 6.2		16.0	1.27
			LE			16.0	1.92

1986 5 5
O = 06 40 28.2 ± 0.11s
LAT = 52.57 S ± 2.54km
LONG = 18.58 E ± 4.27km
DEPTH = 9 km ± 0.16km
STATIONS USED = 19, STAND DEV = 3.42s

GTA	115.4	58	ePKP	06 59 11.2	−0.3
BJI	124.7	68	ePKP	06 59 28.0	−1.5

1986 5 5
O = 09 44 26.6 ± 0.50s
LAT = 58.95 S ± 7.20km
LONG = 24.89 W ± 9.89km
DEPTH = 28 km ± 2.59km
STATIONS USED = 42, STAND DEV = 4.03s

KMI	130.4	110	ePKP	10 03 38.0	2.0
GYA	133.4	113	ePKP	10 03 48.8	7.1
WMQ	137.2	80	ePKP	10 03 51.2	2.5
LZH	139.8	102	ePKP	10 03 52.5	−1.0
GTA	140.3	94	PKP	10 03 53.7	−0.6
XAN	140.8	109	ePKP	10 03 52.4	−2.6
NJ2	143.8	122	ePKP	10 04 00.0	−0.1
SSE	143.9	126	ePKP	10 03 58.8	−1.6
TIY	145.4	109	−PKP	10 04 04.0	0.9
BTO	146.4	103	ePKP	10 04 04.0	−0.8
			PKP_2	10 04 35.0	
TIA	146.5	116	ePKP	10 04 05.1	0.3
HHC	147.4	104	ePKP	10 04 04.0	−2.5
BJI	149.0	110	PKP	10 04 14.0	5.0
DL2	150.7	118	ePKP	10 04 16.7	5.1
SNY	153.9	117	ePKP	10 04 16.0	−0.3
MDJ	158.9	121	ePKP	10 04 21.0	−1.7

1986 5 5
O = 10 32 07.7 ± 0.25s
LAT = 58.97 S ± 4.21km
LONG = 24.86 W ± 5.11km
DEPTH = 27 km ± 1.30km
STATIONS USED = 40, STAND DEV = 2.60s
Ms = 5.9 / 4,

KSH	128.1	75	ePKP	10 51 14.4	1.6		
KMI	130.4	110	ePKP	10 51 16.0	−1.2		
WMQ	137.2	80	PKP1	10 51 32.5	2.5		
GTA	140.3	94	ePKP	10 51 34.6	−0.9		
XAN	140.7	109	ePKP	10 51 31.0	−5.3		
NJ2	143.7	122	−PKP	10 51 41.0	−0.3		
			LN	Ms = 6.0		18.0	1.50
SSE	143.9	126	ePKP	10 51 41.5	−0.1		
			epPKP	10 51 52.0	2.7		
			LN	Ms = 5.9		16.0	0.86
			LE			16.0	0.86
TIY	145.4	109	PKP	10 51 44.0	−0.3		
			LN	Ms = 5.9		18.0	1.27
TIA	146.4	116	ePKP	10 51 45.9	−0.1		
HHC	147.4	104	ePKP	10 51 48.0	0.3		
BJI	149.0	110	ePKP	10 51 50.0	−0.2		
DL2	150.7	118	ePKP	10 51 57.8	5.0		
SNY	153.9	117	ePKP	10 51 58.0	0.5		
CN2	156.3	117	ePKP	10 52 00.0	−0.7		
MDJ	158.8	121	ePKP	10 52 03.5	−0.5		

1986 5 5
O = 13 27 23.3 ± 0.11s
LAT = 37.07 N ± 2.21km
LONG = 141.35 E ± 1.98km
DEPTH = 70 km ± 0.87km
STATIONS USED = 45, STAND DEV = 2.19s

SSE	17.7	256	eP	13 31 29.0	2.0
NJ2	19.2	262	eP	13 31 43.0	−1.1
BJI	19.9	286	P	13 31 54.0	2.2
QZH	22.9	245	eP	13 32 19.8	−2.1

TIY	22.9	280	eP	13 32 27.9	5.2	
WHN	23.3	262	eP	13 32 26.0	−0.1	
XAN	26.5	273	eP	13 32 55.8	−0.5	
GZH	27.8	248	eP	13 33 08.5	0.0	
LZH	30.0	280	eP	13 33 27.0	−1.2	
GYA	31.2	260	P	13 33 38.2	−0.2	
CD2	31.6	270	eP	13 33 41.8	−0.4	
GTA	32.5	287	eP	13 33 51.0	0.9	
KMI	34.9	261	eP	13 34 12.0	1.1	
WMQ	40.8	297	eP	13 35 02.4	2.6	

1986 5 5
O = 15 14 35.2 ± 0.11s
LAT = 7.00 S ± 1.61km
LONG = 155.97 E ± 3.01km
DEPTH = 85 km ± 0.83km
STATIONS USED = 83, STAND DEV = 1.43s
Ms = 4.8 / 6, m_B = 5.2 / 2

QZH	48.3	312	eP	15 23 10.7	0.5		
			eS	15 30 08.0	5.2		
SSE	50.4	321	P	15 23 27.0	0.5		
			PMZ			1.2	0.062
			epP	15 23 47.0	0.2		
			esP	15 23 55.0	−1.8		
			eS	15 30 33.0	0.5		
			eScS	15 33 09.0	3.7		
			eSS	15 34 06.0	2.9		
			LE	Ms = 4.7		24.0	0.60
GZH	51.3	307	eP	15 23 34.8	1.7		
QZN	52.3	300	eP	15 23 42.0	1.3		
			eS	15 31 00.0	1.7		
NJ2	52.5	320	−P	15 23 43.2	0.7		
			S	15 31 06.0	5.5		
			SMN	m_B = 5.4		6.0	0.27
WHN	54.6	315	P	15 23 58.0	0.2		
DL2	55.7	328	P	15 24 04.8	−0.7		
TIA	56.4	322	P	15 24 09.8	−0.6		
MDJ	56.6	338	eP	15 24 11.0	−1.2		
			eS	15 31 55.0	−1.1		
			PS	15 32 18.0			
SNY	56.9	331	eP	15 24 12.0	−2.3		
			pP	15 24 30.0	−4.9		
			S	15 31 56.0	−2.9		
			LN	Ms = 5.0		42.0	1.30
			LE			33.0	0.60
CN2	57.6	334	+P	15 24 19.0	−0.2		
			ScP	15 29 04.6	3.4		
			eS	15 32 08.0	−1.4		
GYA	58.2	307	−P	15 24 23.6	−0.1		
			pP	15 24 42.0	−2.3		
			S	15 32 23.0	6.8		
BJI	59.5	325	eP	15 24 31.0	−1.1		
TIY	60.2	321	eP	15 24 37.0	−0.3		
			S	15 32 40.0	−1.8		
			LE	Ms = 4.8		16.0	0.38
XAN	60.4	316	−iP	15 24 37.7	−0.8		
KMI	60.8	304	eP	15 24 42.0	0.4		
			pP	15 25 00.0	−2.4		
CD2	62.6	310	eP	15 24 53.4	0.3		
			eS	15 33 17.5	4.5		
HHC	62.7	323	P	15 24 53.4	−0.5		
BTO	63.4	322	−iP	15 24 59.3	0.3		
			esP	15 25 26.0	−3.7		
			eS	15 33 23.0	−1.2		
LZH	65.0	315	−P	15 25 09.5	0.3		
			sP	15 25 32.0	−7.9		
GTA	69.4	317	−P	15 25 37.3	0.4		
			eS	15 34 39.5	2.9		
LSA	72.1	304	eP	15 25 53.2	−0.1		
WMQ	79.5	317	−P	15 26 35.0	0.0		
			PMZ			2.0	0.067
			sP	15 27 03.0	−3.0		
			eS	15 36 29.0	0.3		
			SKS	15 36 39.0	1.5		
KSH	86.7	310	−iP	15 27 14.0	2.0		

1986 5 5
O = 16 27 45.1 ± 0.07s
LAT = 8.16 N ± 0.67km
LONG = 91.96 E ± 0.53km
DEPTH = 31 km ± 0.10km
STATIONS USED = 9, STAND DEV = 1.00s

KMI	19.8	30	eP	16 32 16.5	0.7		
QZN	20.4	56	−P	16 32 22.7	−0.1		
LSA	21.4	358	eP	16 32 34.0	0.5		
GYA	22.9	36	P	16 32 48.2	0.1		
CD2	25.2	24	eP	16 33 09.5	−0.2		

1986 5 5
O = 19 09 27.9 ± 0.06s
LAT = 11.88 S ± 1.29km
LONG = 167.01 E ± 1.52km
DEPTH = 133 km ± 0.31km
STATIONS USED = 18, STAND DEV = 0.96s

SSE	61.3	315	P	19 19 31.5	−0.7		
			PMZ			0.7	0.017
CN2	67.1	329	+iP	19 20 09.5	−0.4		
TIY	71.0	317	eP	19 20 35.0	1.1		
KMI	72.6	301	+P	19 20 44.0	0.4		
CD2	74.1	307	eP	19 20 52.5	0.5		

GTA	80.5	314	+P	19 21 28.0	0.2		

1986 5 6
O = 00 00 13.3 ± 0.11s
LAT = 24.17 N ± 1.31km
LONG = 122.46 E ± 1.29km
DEPTH = 0 km ± 0.71km
STATIONS USED = 9, STAND DEV = 4.85s
M_L = 2.8 / 2,

QZH	3.6	283	ePg	00 01 17.0	0.0		
			eSg	00 02 02.1	−4.2		
			SMN	M_L = 2.4		1.0	0.010
			SME			1.0	0.010
SSE	7.0	351	cP *	00 02 01.5	−9.0		

1986 5 6
O = 04 05 02.0
LAT = 38.50 N
LONG = 77.00 E
DEPTH = 25 km
STATIONS USED = 4
M_L = 3.4 / 3,

KSH	1.2	320	+Pn	04 05 24.4	−0.1		
			Sg	04 05 42.1	0.6		

1986 5 6
O = 06 51 09.0 ± 0.14s
LAT = 24.90 N ± 3.07km
LONG = 123.46 E ± 2.01km
DEPTH = 72 km ± 4.25km
STATIONS USED = 25, STAND DEV = 3.79s
Ms = 4.2 / 7,

QZH	4.4	272	eP	06 52 11.0	−4.4		
			S	06 53 04.5	−1.3		
			LN	Ms = 3.6		10.0	1.09
SSE	6.5	342	eP	06 52 40.0	−4.1		
			LG_2	06 54 44.5	1.2		
			LN	Ms = 4.0		10.0	1.11
			LE			10.0	0.98
NJ2	8.2	331	eP	06 53 14.4	6.7		
			LN	Ms = 4.3		7.0	1.20
XAN	15.6	309	eP	06 54 46.0	0.0		
			eLG_2	06 59 42.0	−1.3		
			LN	Ms = 4.4		10.0	0.42
			LE			10.0	0.63
SNY	16.9	0	eP	06 55 07.0	4.7		
			sS	06 58 28.0	−0.6		
CD2	18.4	293	eP	06 55 17.4	−3.5		
			LG_2	07 01 20.0	3.6		
			LN			8.0	1.37
KMI	18.8	275	eP	06 55 29.0	3.5		
CN2	18.9	4	(P)	06 55 27.6	0.7		
BTO	19.3	328	eP	06 55 33.0	2.1		
			sS	06 59 20.0	−3.4		
			LN	Ms = 4.2		11.0	0.20
			LE			11.0	0.40
LZH	20.2	308	eP	06 55 38.0	−3.0		
MDJ	20.3	13	eP	06 55 38.5	−3.1		
GTA	24.6	312	eP	06 56 29.0	4.7		
			LE	Ms = 4.3		11.5	0.40

1986 5 6
O = 11 46 59.2 ± 0.07s
LAT = 24.45 N ± 0.91km
LONG = 122.54 E ± 0.83km
DEPTH = 5 km ± 0.61km
STATIONS USED = 8, STAND DEV = 3.31s
M_L = 3.0 / 3,

QZH	3.6	279	+Pn	11 47 54.8	−1.5		
			SMN	M_L = 2.9		0.6	0.040
			SME			0.6	0.020

1986 5 6
O = 14 33 06.2 ± 0.06s
LAT = 39.82 N ± 0.92km
LONG = 141.07 E ± 0.66km
DEPTH = 113 km ± 0.41km
STATIONS USED = 10, STAND DEV = 1.60s

MDJ	9.8	303	+iP	14 35 26.5	1.4		
SSE	18.4	248	eP	14 37 12.0	−2.7		

1986 5 6
O = 15 47 34.2 ± 0.08s
LAT = 36.36 N ± 1.41km
LONG = 70.68 E ± 1.34km
DEPTH = 106 km ± 0.26km
STATIONS USED = 69, STAND DEV = 1.36s
M_L = 4.9 / 1,

KSH	5.2	52	P	15 48 55.0	3.6		
			S	15 49 55.0	4.6		
WMQ	15.0	55	eP	15 51 01.0	−0.9		
			sP	15 51 38.0	6.1		
			S	15 53 42.7	−2.2		
			LE			6.0	1.32
LSA	18.4	105	P	15 51 44.2	0.3		
GTA	23.1	74	−iP	15 52 33.9	1.6		
			sP	15 53 06.0	−1.6		
			eS	15 56 33.0	0.5		
			LE			8.0	0.45
LZH	26.7	81	eP	15 53 05.5	−0.2		

			eS	15 57 30.0	−1.7		
CD2	28.0	92	eP	15 53 17.9	0.4		
KMI	29.6	103	eP	15 53 33.0	0.8		
BTO	30.9	70	eP	15 53 43.4	−0.1		
XAN	31.2	83	eP	15 53 45.0	−1.0		
HHC	32.1	69	eP	15 53 53.0	−0.5		
BJI	35.6	70	eP	15 54 24.0	−0.1		
			ePP	15 55 48.5	2.4		
WHN	36.7	86	eP	15 54 32.0	−0.7		
TIA	37.2	76	−P	15 54 37.1	0.2		
QZN	38.4	106	eP	15 54 46.0	−1.4		
GZH	39.0	98	eP	15 54 52.8	0.3		
NJ2	39.7	82	−P	15 54 58.0	−0.4		
			LE			14.0	1.20
SNY	40.9	66	eP	15 55 07.1	−0.6		
CN2	41.9	62	+P	15 55 15.5	−0.6		
SSE	41.9	82	P	15 55 16.5	0.1		
			PMZ			1.0	0.60
MDJ	44.7	60	eP	15 55 39.0	0.2		

1986 5 6
O = 19 06 55.5 ± 0.16s
LAT = 24.74 N ± 2.00km
LONG = 122.77 E ± 2.06km
DEPTH = 9 km ± 0.53km
STATIONS USED = 26, STAND DEV = 2.28s
Ms = 4.1 / 6, M_L = 3.6 / 2,

QZH	3.8	274	ePn	19 07 54.8	0.2		
			S*	19 08 47.2	−0.4		
			SMN	M_L = 3.6		0.6	0.22
			SME			0.6	0.080
			LN	Ms = 3.6		11.0	1.45
			LE			10.0	0.51
SSE	6.5	348	ePn	19 08 30.0	−1.5		
			LG_2	19 10 36.0	6.4		
			LN	Ms = 3.5		10.0	0.44
XAN	15.2	311	eP	19 10 37.2	4.7		
			LG_2	19 15 24.0	6.8		
			LN	Ms = 4.2		8.0	0.40
			LE			10.0	0.34
CD2	17.9	294	eP	19 11 05.8	−0.9		
			LE	Ms = 4.3		9.0	0.49
CN2	19.1	6	+P	19 11 27.3	5.4		
LZH	19.8	309	eP	19 11 29.0	−0.8		
GTA	24.2	313	eP	19 12 13.6	−0.7		
			LN	Ms = 4.0		18.0	0.29

1986 5 6
O = 19 28 54.4 ± 0.11s
LAT = 10.37 S ± 1.56km
LONG = 116.29 E ± 1.96km
DEPTH = 34 km ± 0.20km
STATIONS USED = 53, STAND DEV = 1.98s

QZN	29.9	348	eP	19 35 02.2	0.7
GZH	33.4	355	eP	19 35 32.0	0.0
KMI	37.7	340	eP	19 36 11.0	2.1
WHN	40.7	357	eP	19 36 34.0	0.1
SSE	41.5	6	eP	19 36 40.9	0.6
			eS	19 42 52.0	−1.6
NJ2	42.2	3	+P	19 36 47.0	0.5
CD2	42.8	344	eP	19 36 51.3	0.4
			S	19 43 12.2	0.8
XAN	44.7	351	eP	19 37 05.1	−1.5
TIA	46.3	1	eP	19 37 18.0	−1.5
LSA	46.6	329	eP	19 37 22.5	0.3
LZH	47.7	346	eP	19 37 29.5	−0.7
TIY	48.0	356	eP	19 37 30.5	−1.8
BJI	50.1	360	eP	19 37 47.0	−2.1
BTO	51.0	354	eP	19 37 55.0	−1.0
CN2	54.5	8	eP	19 38 24.0	2.0
MDJ	56.0	11	eP	19 38 31.0	−1.8
WMQ	59.9	336	P	19 38 59.5	−0.4
KSH	62.1	325	eP	19 39 17.0	1.9

1986 5 6
O = 22 50 19.6 ± 0.15s
LAT = 23.26 N ± 4.73km
LONG = 123.66 E ± 3.16km
DEPTH = 37 km ± 2.56km
STATIONS USED = 21, STAND DEV = 3.63s
M_L = 3.5 / 2,

QZH	4.9	291	eP	22 51 33.0	−0.3		
			S	22 52 23.0	−6.3		
			SMN	M_L = 3.6		1.2	0.11
			SME			1.0	0.050
SSE	8.1	345	P	22 52 22.0	4.1		
			PMZ			0.5	0.014
			eLG_2	22 54 53.0	5.8		
XAN	16.8	313	eP	22 54 14.2	0.3		
TIY	17.3	329	eP	22 54 20.6	−0.1		
BJI	17.9	341	(P)	22 54 22.5	−5.0		
CD2	19.3	298	eP	22 54 44.4	0.2		
CN2	20.5	4	eP	22 55 04.5	6.7		
GTA	25.8	314	eP	22 55 48.1	−1.9		

1986 5 7
O = 09 19 36.6 ± 0.07s
LAT = 28.83 N ± 1.44km
LONG = 128.79 E ± 1.08km
DEPTH = 163 km ± 1.00km

STATIONS USED = 33, STAND DEV= 1.66s

SSE	7.0	291	eP	09 21 12.0	−5.4	
			LG_2	09 23 19.0	−7.8	
			LN		8.0	0.21
NJ2	9.2	293	+P	09 21 47.0	0.6	
TIA	12.3	310	eP	09 22 26.8	−0.4	
SNY	13.6	343	eP	09 22 46.0	1.4	
CN2	15.2	351	−P	09 23 06.6	2.6	
BJI	15.3	320	eP	09 23 05.5	0.6	
TIY	16.3	307	+P	09 23 18.6	1.0	
XAN	17.7	292	−iP	09 23 34.0	−0.8	
GYA	19.7	268	eP	09 23 57.4	1.2	
CD2	21.8	282	eP	09 24 17.6	1.0	
LZH	22.2	295	eP	09 24 20.5	−0.4	

1986 5 7
O = 15 13 14.0 ± 0.11s
LAT = 30.45 N ± 1.99km
LONG = 142.07 E ± 2.20km
DEPTH = 41 km ± 0.59km
STATIONS USED = 57, STAND DEV= 2.36s
Ms = 4.3 / 13,

MDJ	17.2	329	eP	15 17 11.6	−1.9	
SNY	18.7	312	+iP	15 17 31.6	−0.2	
CN2	18.7	320	−P	15 17 30.5	−1.7	
			eS	15 20 55.0	−1.3	
			LN	Ms = 4.4	12.0	0.70
NJ2	19.9	281	+P	15 17 44.5	−0.7	
			LE	Ms = 4.2	12.0	0.40
QZH	21.5	261	eP	15 17 58.0	−3.5	
			LN	Ms = 3.7	14.0	0.14
TIA	21.6	292	eP	15 18 02.8	0.2	
			eS	15 22 02.0	7.6	
			LE	Ms = 4.3	13.0	0.49
BJI	23.1	301	eP	15 18 18.0	0.1	
			eS	15 22 28.0	5.6	
WHN	23.9	277	eP	15 18 29.4	4.5	
			LN	Ms = 4.4	12.0	0.44
TIY	25.5	294	eP	15 18 40.9	0.0	
			S	15 23 09.5	7.2	
			LE	Ms = 4.4	16.0	0.56
HHC	26.8	301	P	15 18 51.8	−0.6	
BTO	27.8	300	eP	15 19 02.0	−0.4	
			eS	15 23 43.5	2.3	
			LN	Ms = 4.7	15.0	0.70
			LE		15.0	0.80
XAN	28.2	286	eP	15 19 04.0	−1.4	
GYA	31.3	272	P	15 19 33.0	−0.1	
			S	15 24 40.0	5.1	
			SS	15 26 21.0	−2.1	
CD2	32.8	281	eP	15 19 45.6	−1.0	
WMQ	44.6	303	P	15 21 25.9	1.2	
			PMZ		2.0	1.02
			S	15 28 03.6	7.4	

1986 5 7
O = 17 54 34.8 ± 0.10s
LAT = 26.90 N ± 1.75km
LONG = 57.57 E ± 1.64km
DEPTH = 33 km ± 0.22km
STATIONS USED = 16, STAND DEV= 3.09s

KSH	19.8	46	eP	17 59 05.1	−0.6
WMQ	29.6	47	eP	18 00 29.8	−9.6
GTA	37.2	60	P	18 01 45.7	0.5
LZH	40.2	65	eP	18 02 10.5	0.2
KMI	40.5	82	−P	18 02 13.0	0.4
CN2	56.4	54	+P	18 04 15.5	−0.1

1986 5 7
O = 20 43 09.4 ± 0.15s
LAT = 51.51 N ± 3.88km
LONG = 174.78 W ± 1.86km
DEPTH = 25 km ± 1.69km
STATIONS USED = 66, STAND DEV= 1.41s

MDJ	37.0	282	eP	20 50 18.1	−1.3
CN2	40.0	283	+P	20 50 43.4	−0.7
BJI	47.8	285	eP	20 51 47.0	−0.2
TIA	49.6	280	eP	20 52 01.3	−0.1
HHC	50.1	288	P	20 52 05.0	0.2
SSE	50.5	272	P	20 52 09.5	1.4
			epP	20 52 20.0	3.9
BTO	51.1	289	eP	20 52 06.8	−6.2
NJ2	51.3	275	eP	20 52 14.0	−0.2
TIY	51.5	285	P	20 52 16.6	0.7
WHN	55.2	277	eP	20 52 42.2	−0.5
XAN	56.1	284	P	20 52 48.2	−1.3
LZH	57.7	289	eP	20 53 00.5	−0.9
GTA	57.8	294	P	20 53 00.0	−2.0
CD2	61.4	285	eP	20 53 26.7	0.2
GYA	62.8	279	P	20 53 35.0	−1.0
KMI	66.2	281	eP	20 53 58.0	−0.1
QZN	66.3	271	eP	20 53 59.0	0.6
LSA	69.7	292	eP	20 54 21.0	0.5

1986 5 7
O = 20 43 30.1 ± 0.07s
LAT = 51.40 N ± 1.88km
LONG = 174.91 W ± 1.01km
DEPTH = 22 km ± 0.11km
STATIONS USED = 73, STAND DEV= 0.83s

Ms=6.3/41,			m_B=6.2/19				
MDJ	37.0	282	+P	20 50 39.1	−1.0		
			S	20 56 14.0	−8.9		
CN2	39.9	283	+iP	20 51 04.9	0.1		
			PMZ	m_B=6.3		4.5	2.20
			PP	20 52 39.0	−1.5		
			PcP	20 53 14.8	4.8		
SNY	42.2	282	+iP	20 51 25.0	1.8		
			PMZ	m_B=6.6		5.5	6.03
			PP	20 53 06.5	2.6		
			S	20 57 45.0	3.9		
			SMN			14.0	2.86
			SME			19.0	2.01
			SS	21 00 53.0	9.2		
			LN	Ms=6.3		19.0	18.3
			LE			19.0	13.1
DL2	45.1	280	+P	20 51 47.0	0.0		
			S	20 58 24.0	0.4		
			LN	Ms=6.1		17.0	11.3
			LE			17.0	6.84
BJI	47.7	285	+P	20 52 08.5	0.6		
			PMZ	m_B=6.2		10.0	3.66
			ePP	20 53 53.0	−5.2		
			eS	20 58 55.0	−7.3		
			SMN			14.0	3.75
			SME			1.0	1.93
			eSS	21 02 16.0	−8.1		
			LN	Ms=6.6		19.0	31.5
			LE			21.0	21.8
TIA	49.6	280	+P	20 52 22.4	0.3		
			PP	20 54 13.6	−2.7		
			S	20 59 30.0	3.1		
			LN	Ms=6.5		22.0	4.99
			LE			22.0	31.1
HHC	50.0	288	+iP	20 52 26.0	0.4		
			PMZ	m_B=6.5		4.0	2.97
			PP	20 54 20.5	−0.1		
			PcP	20 53 49.5	4.8		
			PcS	20 57 43.0	2.8		
			eS	20 59 32.0	−2.4		
			SMN	m_B=6.3		11.0	1.94
			SME			17.0	5.79
			SS	21 02 58.0	−4.7		
			ScS	21 02 15.0	3.4		
			LN	Ms=6.3		19.0	16.9
			LE			17.0	5.79
SSE	50.4	272	+P	20 52 29.5	0.9		
			PMZ	m_B=6.5		6.0	4.06
			sP	20 52 40.0	0.7		
			cPcP	20 53 48.0	1.7		
			cPP	20 54 24.0	−0.5		
			PcS	20 57 46.0	4.0		
			S	20 59 40.0	1.2		
			SMN	m_B=6.1		8.0	1.06
			SME			8.0	1.87
			sS	20 59 54.0	1.5		
			cScS	21 02 18.0	3.5		
			cSS	21 03 09.0	−0.8		
			LN	Ms=6.1		18.0	7.50
			LE			18.0	6.86
BTO	51.1	289	−iP	20 52 35.0	1.2		
			PMZ	m_B=6.3		7.0	3.00
			PP	20 54 32.0	1.8		
			S	20 59 48.0	0.1		
			LN	Ms=6.4		18.0	17.3
			LE			20.0	11.6
NJ2	51.2	275	+P	20 52 35.0	0.2		
			PP	20 54 32.0	0.4		
			LE	Ms=6.2		19.0	14.3
TIY	51.5	285	P	20 52 37.9	1.3		
			PP	20 54 40.0	6.3		
			PPMZ			12.0	2.92
			S	20 59 57.5	4.3		
			SMN	m_B=6.1		11.0	1.57
			SME			13.0	2.57
			LN	Ms=6.4		17.0	6.15
			LE			20.0	22.6
WHN	55.1	277	+iP	20 53 03.0	−0.3		
			PMZ	m_B=6.5		6.0	3.77
			S	21 00 44.0	1.8		
			PS	21 01 02.4			
			sS	21 01 04.0	8.2		
			LE	Ms=6.1		19.0	8.99
XAN	56.0	284	P	20 53 10.0	−0.3		
			sP	20 53 23.0	2.0		
			PP	20 55 18.0	2.1		
			PPMZ			8.0	1.34
			S	21 00 54.0	−1.0		
			LN	Ms=6.4		16.0	9.38
			LE			17.0	12.8
QZH	56.4	269	+iP	20 53 13.0	0.4		
			SMN	m_B=6.0		7.0	0.75
			SME			7.0	1.28
			sS	21 01 23.0	9.9		
			LN	Ms=6.0		20.0	8.67
LZH	57.7	289	+iP	20 53 22.5	0.2		
			PcP	20 54 15.0	1.1		
			PP	20 55 35.0	4.2		
			eS	21 01 19.0	0.6		
			PS	21 01 29.0			

			ScS	21 03 08.0	2.3		
			LN	Ms=6.7		18.0	20.9
			LE			20.0	28.1
GTA	57.8	294	+iP	20 53 22.4	−0.5		
			PMZ			14.0	28.6
			PcP	20 54 15.0	0.7		
			S	21 01 16.0	−2.2		
			LE	Ms=6.6		16.0	26.2
GZH	61.0	271	+P	20 53 45.0	0.1		
			PMZ	m_B=6.2		12.0	3.50
			S	21 02 05.0	5.2		
			LN	Ms=6.2		17.0	8.33
			LE			17.0	5.82
CD2	61.3	284	+iP	20 53 47.8	0.6		
			pP	20 53 51.0	−3.7		
			PP	20 56 06.0	2.4		
			eS	21 02 08.0	2.7		
			LE	Ms=6.5		17.0	20.2
WMQ	61.4	305	P	20 53 47.2	−0.2		
			PP	20 56 04.0	0.3		
			S	21 02 02.0	−2.1		
			LN	Ms=6.6		20.0	29.1
GYA	62.7	279	+P	20 53 56.6	−0.1		
			S	21 02 23.0	1.5		
			ScS	21 03 49.0	6.0		
			SS	21 06 28.0	−0.3		
			LN	Ms=6.5		20.0	11.0
			LE			20.0	15.2
QZN	66.2	271	+P	20 54 20.0	1.0		
			PMZ	m_B=6.2		10.5	3.00
			sP	20 54 31.0	1.1		
			PP	20 56 46.0	−0.2		
			S	21 03 05.0	0.7		
			LN	Ms=6.3		18.0	5.10
			LE			18.0	8.30
LSA	69.7	292	P	20 54 42.3	0.8		
			+iP	20 54 42.3	2.1		
			S	21 03 48.5	2.2		
			LN	Ms=6.3		17.5	6.08
			LE			19.0	7.32
KSH	70.5	309	+iP	20 54 45.6	−0.1		
			eS	21 03 51.6	−5.1		
			LE	Ms=6.8		18.0	32.8

1986 5 7
O=21 23 11.8 ± 0.21s
LAT=51.36 N ± 2.28km
LONG=174.80 W ± 1.37km
DEPTH= 30 km ± 2.12km
STATIONS USED = 51, STAND DEV= 1.16s

MDJ	37.0	282	−P	21 30 20.3	−1.0	
CN2	40.0	283	+P	21 30 45.2	−0.8	
SNY	42.2	282	+iP	21 31 05.0	0.6	
BJI	47.8	285	eP	21 31 49.0	0.0	
TIA	49.6	280	eP	21 32 03.6	0.4	
SSE	50.5	272	eP	21 32 10.0	0.3	
			PMZ			1.0 0.018
NJ2	51.3	275	eP	21 32 16.0	0.1	
TIY	51.6	285	+P	21 32 18.2	0.5	
XAN	56.1	284	+P	21 32 50.4	−0.9	
LZH	57.8	289	eP	21 33 02.0	−1.3	
GZH	61.1	271	eP	21 33 29.3	3.4	
CD2	61.4	285	eP	21 33 28.1	−0.2	
WMQ	61.4	305	+P	21 33 27.7	−0.7	
GYA	62.8	279	P	21 33 37.2	−0.5	
KMI	66.2	281	−P	21 34 00.5	0.7	

1986 5 7
O=21 42 29.8 ± 0.17s
LAT=51.45 N ± 1.66km
LONG=174.78 W ± 0.76km
DEPTH= 41 km ± 1.53km
STATIONS USED = 16, STAND DEV= 1.23s

SNY	42.2	282	−iP	21 50 21.6	0.5	
BJI	47.8	285	eP	21 51 05.0	−0.6	
TIY	51.5	285	eP	21 51 34.8	0.5	
XAN	56.1	284	eP	21 52 06.2	−1.7	
GYA	62.8	279	P	21 52 54.2	−0.1	

1986 5 7
O=22 47 09.4 ± 0.07s
LAT=51.72 N ± 2.67km
LONG=174.95 W ± 1.28km
DEPTH= 29 km ± 0.50km
STATIONS USED = 96, STAND DEV= 1.22s
Ms=7.7/34, m_B=7.3/22

MDJ	36.9	281	+P	22 54 17.0	−0.7	
			S	22 59 56.0	−3.4	
			LN	Ms=6.2		20.0 23.1
CN2	39.8	283	+iP	22 54 41.6	−0.7	
			PMZ	m_B=7.6		5.0 45.5
			PP	22 56 16.0	−2.1	
			iS	23 00 43.0	−2.1	
			SMN	m_B=6.4		8.0 6.00
			SS	23 03 29.0	−5.4	
			LE	Ms=8.2		17.0 2000
SNY	42.1	282	+iP	22 55 02.0	1.1	
			iS	23 01 19.0	0.5	
			SMN	m_B=7.3		7.0 39.3
DL2	45.0	279	+P	22 55 25.0	0.3	

			sS	23 02 23.0	7.4		
			LN	Ms=8.2		20.0	826
			LE			20.0	1543
BJI	47.6	284	+P	22 55 45.5	0.1		
			e	22 57 54.0			
			S	23 02 40.0	2.4		
			SMN	m_B=7.4		9.0	35.8
			SME			9.0	29.1
			LE	Ms=6.2		18.0	15.9
TIA	49.5	280	+P	22 55 59.6	−0.2		
			S	23 03 11.0	7.5		
			LN	Ms=8.5		19.0	2583
			LE			18.0	1705
HHC	49.9	288	+iP	22 56 03.1	0.1		
SSE	50.4	272	−P	22 56 06.2	−0.5		
			PMZ	m_B=7.0		6.0	11.7
			pP	22 56 16.0	0.7		
			PcP	22 57 26.0	1.6		
			PP	22 58 02.0	−0.6		
			PPMZ			10.0	32.2
			eScP	23 01 18.0	1.3		
			PcS	23 01 23.0	2.8		
			S	23 03 12.0	−4.1		
			sS	23 03 34.0	2.4		
			ScS	23 05 52.0	0.2		
			SS	23 06 43.0	−4.0		
			LN	Ms=8.1		20.0	1250
BTO	51.0	289	P	22 56 11.6	0.5		
			PMZ	m_B=6.8		8.0	9.80
			sP	22 56 26.0	2.7		
			PP	22 58 06.0	−1.5		
			PPMZ			6.0	20.0
			iS	23 03 24.0	−1.2		
			sS	23 03 40.0	0.6		
NJ2	51.2	274	+iP	22 56 12.0	−0.7		
			S	23 03 21.0	−6.1		
			LE	Ms=6.4		22.0	28.3
TIY	51.4	284	+iP	22 56 15.2	1.0		
			PMZ	m_B=7.1		4.0	11.3
			pP	22 56 24.0	1.3		
			sP	22 56 29.0	2.6		
			PP	22 58 19.5	8.3		
			ScP	23 01 15.0	−5.9		
			SME	m_B=7.6		11.0	90.2
			LN	Ms=8.4		19.0	667
			LE			20.0	2083
WHN	55.0	276	+iP	22 56 40.2	−1.0		
			PMZ	m_B=7.1		5.0	13.3
			iS	23 04 20.0	−0.2		
			SMN			20.0	1042
			SME			20.0	1765
XAN	55.9	283	+iP	22 56 47.2	−0.7		
			PMZ	m_B=7.5		8.0	50.1
			S	23 04 34.0	2.6		
			SMN	m_B=7.1		11.0	2.70
			SME			11.0	30.4
QZH	56.4	268	+iP	22 56 50.0	−0.8		
			sP	22 57 08.0	4.7		
			PPMZ			7.5	10.5
			PcS	23 01 42.0	−4.1		
			LN	Ms=7.6		19.0	139
			LE			22.0	299
LZH	57.6	289	eP	22 57 00.5	0.8		
			pP	22 57 09.5	1.3		
			sP	22 57 14.0	2.1		
			S	23 04 57.0	4.0		
			PS	23 05 12.0			
GTA	57.7	294	+iP	22 56 59.5	−0.7		
			sP	22 57 13.1	0.7		
			iS	23 05 05.0	9.6		
			SMN	m_B=7.3		10.0	41.1
			LE	Ms=8.2		21.5	1321
GZH	61.0	271	+P	22 57 22.9	−0.1		
			PMZ	m_B=7.4		10.0	50.8
			iS	23 05 40.0	1.7		
			LN	Ms=8.2		20.0	728
			LE			19.0	812
WMQ	61.2	305	+P	22 57 23.8	−0.5		
			PcP	22 58 05.0	−0.9		
CD2	61.2	284	+iP	22 57 25.0	0.1		
			PP	22 59 41.5	0.4		
			S	23 05 37.5	−2.9		
			LN	Ms=8.1		21.0	836
GYA	62.7	279	+P	22 57 34.0	−0.5		
			PP	22 59 54.0	0.9		
			PS	23 06 08.0			
			LN	Ms=5.9		18.0	4.79
QZN	66.2	271	+P	22 57 58.0	0.9		
			PMZ	m_B=7.5		9.0	54.2
			PcP	22 58 29.0	2.6		
			PP	23 00 23.0	−1.3		
			S	23 06 38.0	−3.6		
			SMN			15.0	17.2
			SME			15.0	24.3
			SS	23 11 03.0	4.1		
			LN	Ms=8.2		22.0	888
			LE			23.0	629
LSA	69.6	292	+iP	22 58 19.5	0.6		
			+iP	22 58 19.5	1.9		
			iS	23 07 21.7	−2.8		

			LE	Ms=7.5	29.0		260
KSH	70.2	309	+iP	22 58 24.5	1.9		
			ePP	23 01 06.5	7.6		
			LE	Ms=7.9	18.0		376

1986 5 7
O=22 57 43.4 ± 0.13s
LAT=51.91 N ± 3.84km
LONG=174.79 W ± 1.89km
DEPTH= 31 km ± 0.37km
STATIONS USED = 11, STAND DEV= 0.50s

MDJ	36.9	281	+iP	23 04 52.0	0.2		
CN2	39.9	283	+iP	23 05 16.8	0.4		
SNY	42.1	281	+iP	23 05 35.2	0.2		

1986 5 7
O=23 00 41.7 ± 0.17s
LAT=52.32 N ± 6.93km
LONG=175.19 W ± 4.96km
DEPTH= 17 km ± 1.65km
STATIONS USED = 7, STAND DEV= 1.83s

SNY	41.8	281	+iP	23 08 33.0	0.3		
SSE	50.2	271	eP	23 09 39.0	−0.5		
			PMZ			1.0	0.045

1986 5 7
O=23 04 48.0
LAT=51.60 N
LONG=174.70 W
DEPTH= 10 km
STATIONS USED = 9, STAND DEV= 2.48s

MDJ	37.1	282	eP	23 11 57.2	−3.4		
CN2	40.0	283	+P	23 12 22.4	−2.9		
SSE	50.6	272	eP	23 13 49.5	0.1		
			PMZ			1.5	0.14

1986 5 7
O=23 07 43.5 ± 0.04s
LAT=51.84 N ± 2.76km
LONG=174.74 W ± 1.88km
DEPTH= 24 km ± 1.19km
STATIONS USED = 13, STAND DEV= 0.72s

CN2	39.9	283	+P	23 15 17.4	−0.5		
SNY	42.2	282	+iP	23 15 37.6	1.1		
SSE	50.5	272	P	23 16 42.0	−0.4		
			PMZ			1.5	0.30
			sP	23 16 54.5	0.9		
NJ2	51.3	274	−P	23 16 48.0	−0.4		
XAN	56.0	283	−P	23 17 23.1	−0.3		
QZN	66.3	271	eP	23 18 33.3	0.5		

1986 5 7
O=23 12 54.0 ± 0.19s
LAT=52.35 N ± 4.18km
LONG=174.77 W ± 2.59km
DEPTH= 34 km ± 0.22km
STATIONS USED = 11, STAND DEV= 3.07s

MDJ	36.9	281	eP	23 20 06.0	4.5		
SSE	50.5	271	eP	23 21 50.0	−1.3		
			PMZ			1.5	0.091
QZN	66.3	271	eP	23 23 42.0	0.4		
KSH	69.9	309	−P	23 24 16.5	13.0		

1986 5 7
O=23 15 03.6 ± 0.07s
LAT=51.58 N ± 1.84km
LONG=175.36 W ± 2.11km
DEPTH= 33 km ± 0.37km
STATIONS USED = 26, STAND DEV= 1.20s

CN2	39.6	283	+P	23 22 32.4	−1.7		
SNY	41.9	281	+iP	23 22 53.8	1.2		
BJI	47.4	284	eP	23 23 37.0	−0.3		
TIA	49.3	280	eP	23 23 52.0	0.4		
SSE	50.1	272	P	23 23 58.5	0.2		
			PMZ			1.0	0.027
NJ2	51.0	274	+P	23 24 04.0	−0.4		
XAN	55.7	283	eP	23 24 39.0	−0.8		
QZH	56.1	268	eP	23 24 42.0	−0.5		
GZH	60.7	271	eP	23 25 17.5	2.7		
WMQ	61.0	305	+iP	23 25 15.2	−1.7		
QZN	65.9	271	eP	23 25 50.0	1.0		
KSH	70.1	309	+P	23 26 17.5	2.1		

1986 5 7
O=23 25 25.6 ± 0.09s
LAT=36.37 N ± 1.29km
LONG= 70.69 E ± 1.19km
DEPTH=222 km ± 0.63km
STATIONS USED = 51, STAND DEV= 1.27s
M_L=5.2 / 2,

KSH	5.2	52	iP	23 26 44.5	0.7		
			S	23 27 44.5	0.4		
			SMN	M_L=5.5		0.6	5.00
			SME			0.7	4.60
WMQ	15.0	55	P	23 28 48.0	0.0		
GTA	23.1	74	+iP	23 30 15.4	1.6		
			LE			18.0	141
CD2	28.0	92	+iP	23 30 59.0	0.8		
BTO	30.9	70	−iP	23 31 24.4	0.4		
XAN	31.2	83	+P	23 31 26.0	−0.5		

TIY	33.1	75	P	23 31 43.4	−0.1		
			PMZ			1.6	0.070
BJI	35.6	70	eP	23 32 05.0	0.6		
WHN	36.6	86	P	23 32 13.2	0.3		
			PPP	23 34 30.0			
TIA	37.1	76	eP	23 32 17.6	0.5		
QZN	38.4	106	eP	23 32 27.8	0.0		
GZH	39.0	98	+P	23 32 33.5	0.7		
NJ2	39.7	82	+iP	23 32 39.5	0.9		
DL2	40.0	71	eP	23 32 41.0	0.4		
SNY	40.9	66	+iP	23 32 46.6	−1.2		
SSE	41.9	82	−P	23 32 57.0	0.5		
			PMZ			1.5	0.39
			PP	23 34 46.0	6.8		
			PPMZ			1.0	0.063
MDJ	44.7	60	eP	23 33 18.0	−0.6		

1986 5 7
O = 23 26 57.0 ± 0.06s
LAT = 51.93 N ± 4.90km
LONG = 174.68 W ± 2.83km
DEPTH = 14 km ± 1.42km
STATIONS USED = 15, STAND DEV = 1.58s

CN2	39.9	283	+P	23 34 31.2	−2.0
SNY	42.2	281	−iP	23 34 53.6	1.9
BJI	47.7	284	eP	23 35 37.0	0.9
SSE	50.6	272	P	23 35 58.0	0.2
NJ2	51.3	274	−P	23 36 03.8	0.1

1986 5 7
O = 23 29 36.3 ± 0.07s
LAT = 51.58 N ± 1.06km
LONG = 176.41 W ± 0.37km
DEPTH = 40 km ± 0.62km
STATIONS USED = 11, STAND DEV = 0.86s

SNY	41.2	281	−iP	23 37 19.0	−0.3
TIY	50.5	283	eP	23 38 33.6	0.3
CD2	60.4	283	+iP	23 39 44.3	−0.3
QZN	65.3	270	eP	23 40 16.7	−0.1

1986 5 7
O = 23 36 21.5 ± 0.29s
LAT = 52.10 N ± 5.65km
LONG = 174.67 W ± 2.41km
DEPTH = 39 km ± 0.61km
STATIONS USED = 49, STAND DEV = 1.64s

MDJ	37.0	281	eP	23 43 27.5	−1.8		
CN2	39.9	283	+P	23 43 53.7	−0.2		
SNY	42.2	281	−iP	23 44 11.4	−1.1		
DL2	45.1	279	eP	23 44 36.6	0.2		
BJI	47.7	284	eP	23 44 57.0	0.2		
TIA	49.6	280	eP	23 45 11.5	0.1		
SSE	50.6	272	P	23 45 18.0	−0.7		
			PMZ			2.0	0.45
			sP	23 45 33.0	−0.7		
NJ2	51.3	274	+P	23 45 25.0	0.4		
TIY	51.4	284	P	23 45 25.0	−0.5		
XAN	56.0	283	eP	23 45 57.0	−2.2		
QZH	56.5	268	eP	23 46 01.3	−1.6		
GTA	57.7	294	+iP	23 46 10.6	−0.4		
WMQ	61.1	305	+P	23 46 35.0	0.5		
GZH	61.1	271	eP	23 46 34.5	−0.4		
CD2	61.3	284	+iP	23 46 37.3	1.2		
GYA	62.8	279	−P	23 46 45.8	−0.2		
QZN	66.3	271	eP	23 47 09.8	0.9		
KSH	70.1	309	eP	23 47 33.5	0.8		

1986 5 7
O = 23 48 06.3 ± 0.26s
LAT = 51.39 N ± 4.23km
LONG = 175.54 W ± 1.35km
DEPTH = 32 km ± 0.90km
STATIONS USED = 20, STAND DEV = 1.58s

SNY	41.8	282	+iP	23 55 56.0	1.2
BJI	47.4	284	eP	23 56 39.5	0.0
TIA	49.2	280	eP	23 56 53.5	−0.2
TIY	51.1	284	eP	23 57 07.1	−1.3
XAN	55.7	283	P	23 57 41.0	−1.1
WMQ	61.0	305	eP	23 58 18.4	−1.4
GYA	62.3	278	P	23 58 28.2	−0.4

1986 5 7
O = 23 51 00.7 ± 0.11s
LAT = 51.48 N ± 3.59km
LONG = 174.97 W ± 1.88km
DEPTH = 32 km ± 0.96km
STATIONS USED = 73, STAND DEV = 1.54s

MDJ	36.9	282	+iP	23 58 08.3	−0.6		
CN2	39.9	283	+iP	23 58 33.4	−0.2		
SNY	42.1	282	+iP	23 58 53.2	1.1		
DL2	45.0	280	−P	23 59 16.9	1.1		
BJI	47.7	284	eP	23 59 37.0	0.3		
TIA	49.5	280	+P	23 59 51.1	0.2		
SSE	50.4	272	P	23 59 57.0	−0.6		
			PMZ			1.0	0.14
			pP	24 00 07.0	0.3		
NJ2	51.2	275	+P	24 00 03.5	−0.2		
			pP	24 00 13.0	0.2		
TIY	51.4	285	+iP	24 00 06.5	1.1		
			PMZ			1.2	0.30

XAN	56.0	283	+iP	24 00 38.0	−1.1
			pP	24 00 48.5	0.2
QZH	56.3	269	+P	24 00 41.5	−0.1
LZH	57.6	289	+iP	24 00 50.5	−0.5
GTA	57.7	294	+iP	24 00 51.0	−0.7
GZH	61.0	271	P	24 01 14.5	0.6
WMQ	61.3	305	eP	24 01 15.8	−0.2
CD2	61.3	284	+iP	24 01 16.1	0.0
GYA	62.7	279	+P	24 01 25.4	−0.1
QZN	66.2	271	eP	24 01 48.6	0.6
LSA	69.6	292	P	24 02 10.9	0.7
KSH	70.4	309	eP	24 02 15.4	1.1

1986 5 8
O = 00 10 58.6 ± 0.18s
LAT = 51.45 N ± 0.97km
LONG = 175.29 W ± 0.77km
DEPTH = 49 km ± 1.40km
STATIONS USED = 19, STAND DEV = 1.26s

CN2	39.7	283	−P	00 18 26.0	−2.1
SNY	41.9	282	+iP	00 18 46.8	0.3
BJI	47.5	284	eP	00 19 31.0	−0.2
TIA	49.3	280	eP	00 19 44.7	−0.7
TIY	51.2	284	P	00 20 00.0	0.0
GYA	62.5	279	P	00 21 19.0	−1.1

1986 5 8
O = 00 35 15.2 ± 0.05s
LAT = 51.41 N ± 0.35km
LONG = 175.46 W ± 0.25km
DEPTH = 33 km ± 0.42km
STATIONS USED = 6, STAND DEV = 0.69s

SNY	41.8	282	+iP	00 43 04.4	0.5
BJI	47.4	284	eP	00 43 48.0	−0.7

1986 5 8
O = 00 42 22.6 ± 0.08s
LAT = 50.96 N ± 1.16km
LONG = 176.20 W ± 0.88km
DEPTH = 37 km ± 0.88km
STATIONS USED = 11, STAND DEV = 1.53s

SNY	41.5	282	eP	00 50 09.6	1.6
BJI	47.1	284	eP	00 50 54.0	0.9

1986 5 8
O = 00 55 16.8 ± 0.10s
LAT = 51.43 N ± 2.73km
LONG = 174.27 W ± 1.44km
DEPTH = 30 km ± 1.38km
STATIONS USED = 40, STAND DEV = 1.11s

MDJ	37.4	282	eP	01 02 28.0	−1.0
CN2	40.3	284	+P	01 02 52.9	−0.7
			sP	01 03 06.8	0.7
SNY	42.6	282	+P	01 03 12.0	−0.1
BJI	48.1	285	eP	01 03 56.5	0.0
TIA	50.0	280	eP	01 04 09.8	−0.9
HHC	50.4	289	P	01 04 14.0	−0.1
BTO	51.5	289	eP	01 04 23.0	0.8
NJ2	51.6	275	eP	01 04 25.0	1.6
TIY	51.9	285	P	01 04 25.9	0.8
XAN	56.4	284	−P	01 04 58.0	−0.6
LZH	58.1	289	eP	01 05 10.0	−0.5
GTA	58.2	295	P	01 05 10.2	−0.8
WMQ	61.7	305	eP	01 05 34.9	−0.1
CD2	61.7	285	eP	01 05 35.4	0.0
GYA	63.1	279	P	01 05 45.6	0.7
KMI	66.5	281	eP	01 06 07.5	0.7

1986 5 8
O = 01 06 14.5 ± 0.08s
LAT = 51.68 N ± 2.87km
LONG = 174.76 W ± 1.45km
DEPTH = 31 km ± 0.50km
STATIONS USED = 64, STAND DEV = 1.47s

MDJ	37.0	282	eP	01 13 23.3	−0.2
CN2	40.0	283	+P	01 13 47.8	−0.3
SNY	42.2	282	+iP	01 14 08.0	1.4
DL2	45.1	280	eP	01 14 31.2	0.8
BJI	47.8	284	eP	01 14 52.0	0.9
TIA	49.6	280	eP	01 15 05.7	0.2
NJ2	51.3	275	+P	01 15 18.8	0.4
TIY	51.5	284	P	01 15 21.6	1.7
WHN	55.1	277	eP	01 15 46.5	−0.3
GZH	61.1	271	P	01 16 29.0	0.4
WMQ	61.3	305	eP	01 16 28.3	−1.5
CD2	61.4	284	P	01 16 30.9	0.5
GYA	62.8	279	+P	01 16 39.6	−0.4
			pP	01 16 48.6	−0.5
KMI	66.2	281	+P	01 17 02.5	0.4
			pP	01 17 11.0	−0.1
			sP	01 17 19.0	4.0
			S	01 25 49.0	2.9
QZN	66.3	271	eP	01 17 03.3	0.7

1986 5 8
O = 01 11 00.8 ± 0.11s
LAT = 51.11 N ± 3.52km
LONG = 176.66 W ± 2.08km
DEPTH = 32 km ± 0.78km
STATIONS USED = 86, STAND DEV = 1.25s

Ms=6.7/ 12,				m_B=6.7/ 7				
MDJ	35.9	281	eP	01 17 59.0	−1.7			
CN2	38.9	283	+P	01 18 25.0	−0.6			
SNY	41.2	281	+iP	01 18 45.0	0.9			
			S	01 24 52.0	−2.4			
			LN	Ms=6.6		19.0	43.3	
			LE			19.0	32.5	
DL2	44.1	279	eP	01 19 08.0	0.1			
BJI	46.7	284	eP	01 19 30.0	0.7			
			PMZ	m_B=6.8		5.0	6.51	
			esP	01 19 44.0	1.6			
			eS	01 26 20.0	3.5			
			SMN	m_B=6.7		10.0	9.84	
			SME			12.5	8.71	
			LN	Ms=6.6		16.0	26.2	
			LE			18.0	25.0	
TIA	48.5	279	eP	01 19 43.8	0.5			
HHC	49.1	287	+P	01 19 48.0	0.6			
			pP	01 19 58.0	1.5			
			eS	01 26 56.0	6.6			
			SME	m_B=6.7		11.0	12.0	
			LN	Ms=6.9		19.0	74.2	
SSE	49.3	271	eP	01 19 49.5	0.0			
			PMZ			1.5	0.64	
			pP	01 19 59.5	0.8			
			sP	01 20 04.0	1.4			
			eS	01 26 52.0	−1.1			
			sS	01 27 10.0	1.5			
			ScS	01 29 36.0	0.9			
			LE	Ms=6.3		18.0	19.1	
BTO	50.1	288	eP	01 19 54.3	−1.5			
NJ2	50.2	274	+iP	01 19 55.6	−0.2			
			PMZ	m_B=6.3		6.0	2.60	
			sP	01 20 07.2	−1.7			
TIY	50.5	284	+iP	01 19 59.0	0.7			
			PMZ	m_B=6.9		5.0	7.37	
			pP	01 20 08.0	0.6			
			sP	01 20 15.0	3.7			
			PP	01 21 58.0	3.8			
			S	01 27 12.5	4.7			
			SMN			17.0	32.9	
			LN	Ms=6.8		17.5	47.6	
WHN	54.0	276	+iP	01 20 24.2	−0.5			
			PMZ	m_B=6.5		7.0	4.38	
XAN	55.0	283	+iP	01 20 31.6	−0.6			
			pP	01 20 43.5	2.0			
QZH	55.3	267	+iP	01 20 34.0	0.2			
			pP	01 20 42.0	−1.2			
			S	01 28 10.0	−3.0			
			LN	Ms=6.4		18.0	17.5	
			LE			18.0	9.66	
LZH	56.8	288	+P	01 20 45.0	0.3			
			sP	01 21 00.5	2.8			
			S	01 28 34.0	1.3			
GTA	56.9	293	+iP	01 20 45.8	−0.1			
			iPP	01 22 56.0	2.9			
			PS	01 28 56.0				
			LE	Ms=6.8		18.0	48.5	
GZH	59.9	270	+P	01 21 07.3	0.7			
CD2	60.3	283	+iP	01 21 10.0	0.3			
WMQ	60.6	304	+iP	01 21 11.0	−0.5			
			S	01 29 21.5	−1.4			
			sS	01 29 44.0	4.4			
			ScS	01 31 00.0	4.8			
			LN	Ms=7.2		20.0	120	
GYA	61.7	278	+P	01 21 18.6	−0.2			
KMI	65.1	280	+iP	01 21 42.0	0.6			
			pP	01 21 52.5	1.9			
			sP	01 21 58.0	3.5			
			S	01 30 24.0	4.9			
QZN	65.1	270	+P	01 21 42.3	1.2			
			eS	01 30 20.0	−0.4			
			LN	Ms=6.7		18.0	18.0	
			LE			17.5	18.9	
LSA	68.8	291	P	01 22 05.6	0.6			
KSH	69.8	308	+P	01 22 11.9	1.2			

1986 5 8

O=01 15 13.7 ± 0.17s
LAT=51.22 N ± 4.71km
LONG=176.77 W ± 2.26km
DEPTH= 33 km ± 0.14km
STATIONS USED = 59, STAND DEV= 1.67s
Ms=6.4/ 3, m_B=6.0/ 1

MDJ	35.9	281	eP	01 22 14.0	1.2			
SNY	41.1	281	−iP	01 22 57.2	1.0			
DL2	44.0	279	eP	01 23 20.3	0.3			
BJI	46.7	284	eP	01 23 40.0	−1.3			
TIA	48.4	279	P	01 23 55.8	0.4			
SSE	49.3	271	+P	01 24 02.0	0.3			
			PMZ			1.5	0.25	
			pP	01 24 12.0	0.9			
			sP	01 24 16.2	1.2			
			esS	01 31 19.0	−1.4			
			LN	Ms=6.4		18.0	22.5	
BTO	50.0	288	−iP	01 24 08.2	0.4			
NJ2	50.1	273	+P	01 24 08.4	0.3			
TIY	50.4	284	P	01 24 11.2	0.8			
			PMZ			0.8	0.13	
WHN	53.9	275	eP	01 24 36.0	−0.9			

QZH	55.2	267	−P	01 24 46.0	−0.2		
LZH	56.7	288	P	01 24 58.5	1.7		
			S	01 32 50.0	5.9		
GTA	56.8	293	+iP	01 24 57.1	−0.8		
			LN	Ms=6.9		17.0	51.9
GZH	59.8	270	−P	01 25 19.0	0.0		
WMQ	60.5	304	eP	01 25 22.4	−1.1		
QZN	65.0	270	eP	01 25 54.0	0.5		
LSA	68.7	291	P	01 26 19.0	1.9		
KSH	69.7	308	eP	01 26 22.4	−0.3		

1986 5 8
O=01 17 57.1 ± 0.23s
LAT=51.07 N ± 7.00km
LONG=175.87 W ± 4.47km
DEPTH= 36 km ± 0.85km
STATIONS USED = 22, STAND DEV= 2.31s

CN2	39.4	283	+P	01 25 22.5	−3.2		
SNY	41.6	282	+iP	01 25 43.0	−1.1		
DL2	44.6	279	eP	01 26 08.6	0.8		
BJI	47.2	284	eP	01 26 29.0	−0.1		
TIY	51.0	284	P	01 26 58.0	0.0		
			PMZ			0.8	0.070
XAN	55.5	283	+P	01 27 30.8	−0.9		
GTA	57.4	294	+iP	01 27 42.5	−2.6		
CD2	60.8	284	eP	01 28 09.0	0.1		
GYA	62.2	278	P	01 28 18.0	−0.1		
QZN	65.6	270	P	01 28 40.1	−0.2		

1986 5 8
O=01 20 57.8 ± 0.23s
LAT=51.58 N ± 5.12km
LONG=177.16 W ± 2.82km
DEPTH= 33 km ± 0.06km
STATIONS USED = 38, STAND DEV= 1.49s
Ms=6.5/ 3,

MDJ	35.6	280	eP	01 27 53.0	−1.4		
CN2	38.5	282	+P	01 28 18.1	−1.2		
SNY	40.8	280	+P	01 28 38.0	0.2		
BJI	46.3	283	eP	01 29 23.5	0.5		
SSE	49.0	270	eP	01 29 43.0	−1.0		
			PMZ			1.0	0.073
NJ2	49.8	273	−P	01 29 50.0	−0.2		
TIY	50.1	283	P	01 29 53.0	0.8		
			PMZ			1.0	0.090
LZH	56.3	287	P	01 30 39.5	1.0		
GTA	56.4	293	+iP	01 30 39.1	−0.4		
			LN	Ms=6.3		15.0	12.5
GZH	59.6	269	P	01 31 01.6	0.1		
CD2	59.9	283	cP	01 31 05.3	1.5		
GYA	61.3	277	P	01 31 12.4	−0.9		
KSH	69.2	308	eP	01 32 05.4	1.0		
			LE	Ms=7.1		12.0	42.8

1986 5 8
O=01 22 45.2 ± 0.32s
LAT=51.11 N ± 5.65km
LONG=176.77 W ± 1.91km
DEPTH= 31 km ± 1.01km
STATIONS USED = 19, STAND DEV= 2.26s

SNY	41.1	281	+iP	01 30 28.0	−0.1		
BJI	46.7	284	eP	01 31 12.0	−1.3		
SSE	49.3	271	P	01 31 32.5	−1.0		
			PMZ			1.0	0.036
			sP	01 31 46.0	−0.3		
TIY	50.4	284	P	01 31 42.8	0.4		
			PMZ			0.8	0.060
GTA	56.8	293	+iP	01 32 29.1	−0.9		
QZN	65.0	270	−P	01 33 25.7	0.4		

1986 5 8
O=01 30 55.7 ± 0.26s
LAT=51.00 N ± 2.26km
LONG=176.73 W ± 1.92km
DEPTH= 52 km ± 2.30km
STATIONS USED = 56, STAND DEV= 1.73s

MDJ	35.9	281	eP	01 37 51.5	−2.0		
CN2	38.9	283	+P	01 38 17.0	−1.4		
SNY	41.1	281	+iP	01 38 36.8	0.0		
BJI	46.7	284	eP	01 39 22.0	0.0		
NJ2	50.1	274	eP	01 39 41.0	−7.4		
TIY	50.5	284	P	01 39 51.1	0.1		
			PMZ			1.0	0.10
WHN	54.0	276	eP	01 40 15.0	−2.3		
XAN	55.0	283	eP	01 40 23.2	−1.7		
LZH	56.7	288	+P	01 40 37.0	−0.5		
GTA	56.9	293	+iP	01 40 37.4	−1.3		
CD2	60.3	283	eP	01 41 01.8	−0.5		
WMQ	60.6	304	iP	01 41 02.5	−2.0		
			PcP	01 41 46.7	−0.2		
			S	01 49 12.3	−1.5		
			SME			2.0	1.28
GYA	61.7	278	+P	01 41 10.4	−1.0		
QZN	65.1	270	P	01 41 34.2	0.6		
KMI	65.1	280	+P	01 41 33.5	−0.5		
KSH	69.8	308	−P	01 42 04.4	0.8		

1986 5 8
O=01 45 18.7 ± 0.12s
LAT=51.00 N ± 1.50km

LONG = 176.90 W ± 1.04km
DEPTH = 33 km ± 1.19km
STATIONS USED = 17, STAND DEV = 1.42s

SNY	41.0	281	eP	01 53 02.1	1.2	
BJI	46.6	284	eP	01 53 47.0	0.9	
SSE	49.2	271	eP	01 54 05.0	−1.1	
			epP	01 54 15.0	−0.5	
TIY	50.4	284	eP	01 54 16.0	0.8	
GTA	56.8	293	+iP	01 55 02.0	−1.0	
CD2	60.2	283	eP	01 55 28.8	2.2	

1986 5 8
O = 01 54 11.5 ± 0.10s
LAT = 51.18 N ± 1.40km
LONG = 176.08 W ± 0.96km
DEPTH = 33 km ± 0.99km
STATIONS USED = 27, STAND DEV = 1.18s

BJI	47.1	284	eP	02 02 43.0	0.5	
TIY	50.8	284	eP	02 03 12.4	0.9	
XAN	55.4	283	+P	02 03 45.3	0.0	
LZH	57.1	288	P	02 03 58.0	0.4	
KMI	65.4	280	eP	02 04 54.0	−0.2	

1986 5 8
O = 02 03 59.1 ± 0.13s
LAT = 51.10 N ± 2.59km
LONG = 176.83 W ± 1.71km
DEPTH = 36 km ± 1.33km
STATIONS USED = 81, STAND DEV = 1.46s
Ms = 6.2 / 5,

MDJ	35.8	281	eP	02 10 56.5	−1.2		
CN2	38.8	282	eP	02 11 21.2	−1.5		
SNY	41.0	281	+iP	02 11 41.4	0.3		
BJI	46.6	284	eP	02 12 26.5	0.2		
TIA	48.4	279	eP	02 12 40.0	−0.4		
HHC	49.0	287	−iP	02 12 45.2	0.7		
			S	02 19 44.5	0.5		
			LN	Ms = 6.9		14.0	39.3
			LE			15.0	40.5
SSE	49.2	271	+P	02 12 46.5	0.0		
			PMZ			1.5	0.34
			esP	02 12 59.5	−1.1		
			LE	Ms = 6.0		18.0	9.91
BTO	50.0	288	P	02 12 54.0	1.1		
NJ2	50.1	274	+P	02 12 53.0	0.1		
TIY	50.4	284	−iP	02 12 56.6	1.2		
			PMZ			1.0	0.16
WHN	53.9	275	P	02 13 21.0	−0.8		
XAN	54.9	282	+P	02 13 28.2	−1.1		
			pP	02 13 40.0	0.6		
QZH	55.2	267	−P	02 13 31.3	0.4		
LZH	56.6	288	+P	02 13 41.5	−0.4		
GTA	56.8	293	+iP	02 13 42.4	−0.6		
			LN	Ms = 6.3		15.0	11.7
GZH	59.8	270	−iP	02 14 04.5	0.7		
WMQ	60.5	304	+P	02 14 07.5	−1.3		
GYA	61.6	278	−P	02 14 15.8	−0.2		
			sP	02 14 29.8	−0.3		
			S	02 22 37.0	4.3		
KMI	65.0	279	+P	02 14 38.0	−0.5		
			pP	02 14 50.0	1.5		
QZN	65.0	270	−iP	02 14 39.9	1.6		
			eS	02 23 15.0	−1.5		
			LN	Ms = 6.2		17.0	3.40
			LE			20.0	8.60
LSA	68.7	291	P	02 15 02.6	0.4		
KSH	69.7	308	eP	02 15 10.0	2.0		

1986 5 8
O = 02 16 33.2 ± 0.10s
LAT = 51.35 N ± 2.35km
LONG = 174.77 W ± 1.42km
DEPTH = 36 km ± 1.09km
STATIONS USED = 40, STAND DEV = 1.52s
Ms = 5.9 / 1,

SNY	42.3	282	+iP	02 24 26.0	0.7		
BJI	47.8	285	eP	02 25 10.5	0.6		
TIA	49.7	280	+P	02 25 24.0	−0.1		
SSE	50.5	272	P	02 25 31.5	0.9		
			PMZ			1.0	0.045
			epP	02 25 41.2	0.8		
			LN	Ms = 5.9		16.0	2.93
			LE			16.0	4.91
NJ2	51.3	275	PS	02 25 37.0	−0.6		
TIY	51.6	285	eP	02 25 39.5	0.9		
WHN	55.2	277	eP	02 26 03.5	−1.7		
XAN	56.1	284	+P	02 26 11.5	−0.7		
GZH	61.1	271	eP	02 26 48.0	1.3		
CD2	61.4	285	eP	02 26 49.0	−0.1		
WMQ	61.4	305	P	02 26 48.5	−0.7		
GYA	62.8	279	P	02 26 58.4	−0.1		
KMI	66.2	281	−P	02 27 21.0	0.4		
QZN	66.3	271	eP	02 27 20.8	0.0		

1986 5 8
O = 02 27 40.9 ± 0.10s
LAT = 50.98 N ± 1.20km
LONG = 176.81 W ± 0.86km
DEPTH = 38 km ± 1.02km
STATIONS USED = 15, STAND DEV = 1.31s

LZH	56.7	288	+P	02 37 25.0	1.2
GTA	56.9	293	+iP	02 37 24.4	−0.6

1986 5 8
O = 02 32 53.2 ± 0.09s ,
LAT = 51.51 N ± 3.04km
LONG = 174.84 W ± 1.53km
DEPTH = 26 km ± 1.03km
STATIONS USED = 58, STAND DEV = 1.38s

MDJ	37.0	282	+P	02 40 02.0	−0.7
CN2	39.9	283	+P	02 40 27.0	−0.4
SNY	42.2	282	+iP	02 40 46.9	1.0
BJI	47.8	285	eP	02 41 31.0	0.5
TIA	49.6	280	eP	02 41 44.8	0.1
HHC	50.0	288	P	02 41 49.0	0.9
SSE	50.5	272	P	02 41 52.0	0.6
			esP	02 42 07.5	4.4
BTO	51.1	289	eP	02 41 57.3	1.0
NJ2	51.3	275	−P	02 41 57.5	0.0
WHN	55.1	277	eP	02 42 24.5	−1.5
XAN	56.1	284	+P	02 42 32.5	−0.3
LZH	57.7	289	eP	02 42 45.5	0.8
GTA	57.8	294	+iP	02 42 44.6	−0.7
GZH	61.1	271	eP	02 43 10.0	2.3
WMQ	61.3	305	P	02 43 09.5	−0.1
CD2	61.4	284	eP	02 43 10.6	0.8
GYA	62.8	279	P	02 43 19.0	−0.3
KMI	66.2	281	eP	02 43 33.5	−7.9
QZN	66.2	271	eP	02 43 42.8	1.1

1986 5 8
O = 02 54 07.8 ± 0.34s
LAT = 36.78 N ± 1.96km
LONG = 77.76 E ± 1.20km
DEPTH = 34 km ± 1.13km
STATIONS USED = 10, STAND DEV = 2.78s
M_L = 4.4 / 3,

KSH	3.0	333	Pg	02 55 00.0	−1.5	
			SMN	M_L = 4.4	0.8	1.80
			SME		0.6	1.50
WMQ	10.3	44	+P	02 56 36.5	−0.5	
GTA	17.5	75	P	02 58 12.3	0.5	
GYA	26.6	105	P	02 59 45.4	0.2	

1986 5 8
O = 02 59 39.2 ± 0.22s
LAT = 51.34 N ± 2.46km
LONG = 175.85 W ± 1.36km
DEPTH = 41 km ± 2.02km
STATIONS USED = 61, STAND DEV = 1.56s
Ms = 5.3 / 1,

MDJ	36.4	281	eP	03 06 41.0	−1.0
CN2	39.4	283	+P	03 07 05.6	−1.2
SNY	41.6	281	−iP	03 07 26.2	0.9
BJI	47.2	284	eP	03 08 10.5	0.3
TIA	49.0	279	eP	03 08 24.2	−0.1
HHC	49.5	288	P	03 08 28.4	0.3
SSE	49.8	271	eP	03 08 31.0	0.2
			sP	03 08 45.0	−1.2
BTO	50.5	288	eP	03 08 37.2	0.9
NJ2	50.7	274	eP	03 08 37.0	0.0
TIY	50.9	284	eP	03 08 40.0	0.9
WHN	54.5	276	eP	03 09 05.5	−0.2
XAN	55.5	283	+P	03 09 12.2	−0.7
LZH	57.2	288	+P	03 09 25.0	−0.1
GTA	57.3	294	P	03 09 24.5	−1.4
CD2	60.8	284	+P	03 09 50.0	−0.1
WMQ	60.9	305	P	03 09 49.0	−1.9
GYA	62.2	278	P	03 09 59.0	−0.4
KMI	65.6	280	eP	03 10 21.5	−0.2
QZN	65.6	270	eP	03 10 22.8	1.0

1986 5 8
O = 03 08 25.4 ± 0.10s
LAT = 50.90 N ± 1.32km
LONG = 176.25 W ± 0.86km
DEPTH = 39 km ± 1.01km
STATIONS USED = 20, STAND DEV = 1.25s

BJI	47.0	284	eP	03 16 56.0	0.4
TIY	50.8	284	eP	03 17 25.4	0.9
XAN	55.3	283	eP	03 17 57.0	−1.3
LZH	57.1	288	eP	03 18 09.5	−1.4
GTA	57.2	294	P	03 18 11.0	−1.0
CD2	60.6	284	eP	03 18 35.6	0.0

1986 5 8
O = 03 14 26.5 ± 0.29s
LAT = 51.43 N ± 3.58km
LONG = 174.59 W ± 1.84km
DEPTH = 36 km ± 2.89km
STATIONS USED = 25, STAND DEV = 2.58s

CN2	40.1	283	eP	03 22 00.6	−0.3
SNY	42.4	282	+iP	03 22 20.8	1.5
BJI	47.9	285	eP	03 22 57.0	−6.8
SSE	50.6	272	eP	03 23 26.0	1.4
TIY	51.7	285	eP	03 23 33.4	0.9
LZH	57.9	289	eP	03 24 14.0	−4.0
GTA	58.0	294	P	03 24 18.4	−0.2
WMQ	61.5	305	P	03 24 42.5	−0.2

1986 5 8
O = 03 18 11.1 ± 0.16s
LAT = 22.92 N ± 1.91km
LONG = 101.36 E ± 1.40km
DEPTH = 32 km ± 0.09km
STATIONS USED = 27, STAND DEV = 2.41s
M_L = 4.6 / 3,

KMI	2.5	30	ePn	03 18 51.0	0.4		
			+Pg	03 18 56.0	−0.1		
			Sg	03 19 30.0	−0.9		
			SMN	M_L = 4.4		1.0	1.70
			SME			1.0	2.40
GYA	6.0	53	Pn	03 19 38.6	0.8		
			Pg	03 20 01.0	4.4		
CD2	8.2	15	eP	03 20 10.1	−1.3		
QZN	8.8	114	eP	03 20 20.4	1.0		
			LN			1.0	0.10
			LE			1.0	0.040
GZH	11.0	87	eP	03 20 47.5	−2.4		
GTA	16.5	356	P	03 22 03.4	1.5		
TIY	17.6	30	eP	03 22 15.4	0.3		
NJ2	18.0	56	eP	03 22 22.4	2.1		
TIA	19.0	42	eP	03 22 32.8	−0.5		
BJI	21.2	33	eP	03 22 57.0	0.8		
WMQ	23.7	335	eP	03 23 25.8	4.5		

1986 5 8
O = 03 20 13.1 ± 0.13s
LAT = 51.33 N ± 2.86km
LONG = 175.55 W ± 1.36km
DEPTH = 29 km ± 1.30km
STATIONS USED = 53, STAND DEV = 1.55s

MDJ	36.6	282	eP	03 27 17.7	−1.2
CN2	39.6	283	eP	03 27 42.6	−1.1
SNY	41.8	282	eP	03 28 03.5	1.3
BJI	47.4	284	eP	03 28 47.0	0.0
TIA	49.2	280	eP	03 29 00.8	−0.3
HHC	49.7	288	eP	03 29 05.0	0.1
SSE	50.0	272	eP	03 29 04.5	−3.1
			epP	03 29 14.0	−2.3
BTO	50.7	289	P	03 29 14.3	1.2
TIY	51.1	284	P	03 29 16.8	0.9
XAN	55.7	283	eP	03 29 48.3	−1.3
LZH	57.3	288	+P	03 30 01.5	−0.3
GTA	57.5	294	P	03 30 16.0	14.3
WMQ	61.1	305	P	03 30 26.8	−0.6
GYA	62.3	278	P	03 30 35.8	−0.3
KMI	65.7	280	eP	03 30 57.0	−1.4
QZN	65.8	270	eP	03 31 01.7	3.2
LSA	69.4	292	P	03 31 22.0	0.7

1986 5 8
O = 03 23 39.1 ± 0.17s
LAT = 51.15 N ± 1.88km
LONG = 176.48 W ± 1.14km
DEPTH = 35 km ± 1.57km
STATIONS USED = 58, STAND DEV = 1.18s

CN2	39.0	283	eP	03 31 04.4	−0.2		
SNY	41.3	281	eP	03 31 23.4	0.3		
BJI	46.8	284	eP	03 32 08.5	0.4		
TIA	48.6	279	eP	03 32 21.8	−0.4		
HHC	49.2	288	P	03 32 26.2	−0.1		
SSE	49.5	271	P	03 32 28.0	−0.4		
			PMZ			1.0	0.027
			sP	03 32 41.1	−1.0		
BTO	50.2	288	eP	03 32 35.0	0.4		
NJ2	50.3	274	−P	03 32 35.0	0.2		
TIY	50.6	284	eP	03 32 38.0	0.8		
XAN	55.1	283	eP	03 33 10.2	−0.8		
GTA	57.0	293	+P	03 33 23.8	−0.8		
GZH	60.0	270	eP	03 33 46.0	0.5		
CD2	60.4	284	eP	03 33 48.4	0.0		
GYA	61.8	278	+P	03 33 57.0	−0.6		
KMI	65.2	280	+P	03 34 20.0	−0.1		
LSA	68.9	291	P	03 34 43.7	0.1		
KSH	69.8	308	eP	03 34 50.0	0.9		

1986 5 8
O = 03 44 05.2 ± 0.11s
LAT = 51.35 N ± 3.07km
LONG = 175.30 W ± 1.53km
DEPTH = 31 km ± 1.25km
STATIONS USED = 70, STAND DEV = 1.47s

MDJ	36.7	282	eP	03 51 03.7	−8.3		
CN2	39.7	283	−P	03 51 36.0	−0.7		
DL2	44.9	280	eP	03 52 20.7	1.8		
BJI	47.5	284	eP	03 52 41.0	1.1		
TIA	49.3	280	eP	03 52 53.5	−0.6		
HHC	49.8	288	−iP	03 52 58.8	1.1		
SSE	50.2	272	eP	03 53 01.5	0.9		
			PMZ			1.0	0.018
			esP	03 53 15.0	1.6		
BTO	50.9	289	P	03 53 07.0	1.1		
NJ2	51.0	274	−P	03 53 07.0	0.2		
TIY	51.2	284	P	03 53 10.0	1.3		
WHN	54.8	276	eP	03 53 35.0	−0.3		
			sP	03 53 49.5	1.2		
XAN	55.8	283	+P	03 53 42.0	−0.4		
QZH	56.1	268	+P	03 53 44.5	−0.1		
GTA	57.6	294	+iP	03 53 54.6	−0.7		

GZH	60.8	271	−P	03 54 20.0	3.0	
CD2	61.1	284	eP	03 54 19.8	0.3	
WMQ	61.2	305	+P	03 54 19.6	−0.4	
GYA	62.5	279	P	03 54 28.8	0.0	
KMI	65.9	280	+P	03 54 51.5	0.4	
QZN	66.0	271	eP	03 54 52.6	1.4	
			eS	04 03 34.5	−1.0	
LSA	69.5	292	eP	03 55 13.5	−0.4	
			+P	03 55 13.5	0.9	
KSH	70.3	309	P	03 55 19.8	1.4	

1986 5 8

O = 03 52 51.0 ± 0.11s

LAT = 51.31 N ± 4.35km

LONG = 176.83 W ± 1.69km

DEPTH = 31 km ± 0.49km

STATIONS USED = 57, STAND DEV = 1.66s

MDJ	35.8	281	eP	03 59 49.7	−0.1		
CN2	38.8	282	eP	04 00 13.6	−1.2		
SNY	41.0	281	+P	04 00 33.4	0.1		
BJI	46.6	283	eP	04 01 19.0	0.6		
TIA	48.4	279	eP	04 01 32.5	−0.1		
HHC	48.9	287	+P	04 01 36.5	0.0		
SSE	49.2	271	P	04 01 38.5	−0.5		
			PMZ			1.5	0.036
			epP	04 01 48.5	0.5		
BTO	50.0	288	P	04 01 46.0	1.2		
NJ2	50.0	273	−P	04 01 45.0	−0.3		
TIY	50.3	283	eP	04 01 48.1	0.6		
WHN	53.9	275	P	04 02 13.2	−0.9		
XAN	54.9	282	eP	04 02 20.6	−0.9		
LZH	56.6	288	+P	04 02 33.5	−0.4		
GTA	56.7	293	+P	04 02 34.8	−0.1		
GZH	59.8	270	eP	04 02 55.0	−1.2		
CD2	60.2	283	eP	04 02 59.0	0.0		
GYA	61.6	278	P	04 03 07.8	−0.5		
KMI	65.0	279	+P	04 03 30.0	−0.8		
QZN	65.0	270	−P	04 03 31.4	0.6		
LSA	68.6	291	eP	04 03 54.0	−0.3		
KSH	69.6	308	eP	04 04 08.0	8.3		

1986 5 8

O = 04 03 48.2 ± 0.14s

LAT = 51.18 N ± 2.22km

LONG = 176.43 W ± 1.15km

DEPTH = 31 km ± 1.25km

STATIONS USED = 84, STAND DEV = 1.71s

Ms = 5.9 / 35, m_B = 6.3 / 27

MDJ	36.1	281	+P	04 10 48.2	−1.3		
			pP	04 10 58.0	−0.3		
			PP	04 12 12.0	0.5		
			S	04 16 24.0	−1.5		
CN2	39.1	283	+P	04 11 14.0	−0.4		
			PMZ	m_B = 6.3		4.0	2.00
			pP	04 11 24.5	1.2		
			PP	04 12 42.0	−6.1		
			PPMZ			7.0	1.40
			eS	04 17 09.0	−2.8		
			LN	Ms = 5.9		17.0	9.20
SNY	41.3	281	+iP	04 11 33.0	0.1		
			PMZ	m_B = 6.5		4.5	3.45
			sP	04 11 45.5	−0.2		
			S	04 17 47.0	2.9		
			LN	Ms = 5.9		18.0	4.89
			LE			20.0	7.88
DL2	44.2	279	eP	04 11 57.0	0.3		
			S	04 18 28.0	1.2		
			LN	Ms = 5.6		16.0	3.78
BJI	46.9	284	eP	04 12 19.0	1.0		
			PMZ	m_B = 6.3		5.0	2.39
			esP	04 12 33.0	2.3		
			ePP	04 14 07.5	0.0		
			eS	04 19 10.0	3.9		
			SMN	m_B = 6.2		9.0	2.79
			SME			11.0	1.93
			LN	Ms = 6.0		17.5	7.25
			LE			18.0	5.52
TIA	48.7	279	eP	04 12 32.0	0.0		
			epP	04 12 43.0	2.1		
			S	04 19 33.0	2.5		
			SMN	m_B = 5.9		10.0	1.04
			SME			10.0	1.31
			LN	Ms = 5.7		21.0	2.55
			LE			20.0	3.94
HHC	49.2	288	+iP	04 12 36.5	0.4		
			PMZ	m_B = 6.6		4.0	3.04
			pP	04 12 45.0	0.1		
			iS	04 19 44.0	5.1		
			SMN	m_B = 6.1		9.0	2.06
			SME			9.0	1.33
			sS	04 19 56.0	2.5		
			ScS	04 22 26.0	4.1		
			LN	Ms = 6.1		17.0	9.57
SSE	49.5	271	+P	04 12 39.0	0.7		
			PMZ	m_B = 6.3		4.0	1.86
			pP	04 12 49.0	1.7		
			eS	04 19 40.0	−3.0		
			sS	04 19 57.0	−0.9		
			ScS	04 22 25.0	1.0		
			LN	Ms = 5.5		14.0	1.82

			LE			14.0	0.78
BTO	50.3	288	−iP	04 12 45.0	0.6		
			PMZ	m_B = 6.7		4.0	4.60
			pP	04 12 54.0	0.9		
			PP	04 14 40.0	0.1		
			S	04 19 52.5	−0.1		
			SMN	m_B = 6.3		5.0	2.00
			SME			5.0	0.80
			sS	04 20 11.0	2.4		
			LN	Ms = 6.1		17.0	5.00
			LE			17.0	10.2
NJ2	50.3	274	+iP	04 12 44.0	−0.6		
			LN	Ms = 5.8		17.0	5.60
TIY	50.6	284	P	04 12 48.0	1.0		
			PMZ	m_B = 6.6		4.0	3.33
			PP	04 14 47.5	4.6		
			S	04 20 05.5	8.1		
			sS	04 20 20.0	6.6		
			LN	Ms = 5.9		19.0	7.22
			LE			21.0	3.48
WHN	54.2	276	+iP	04 13 12.0	−1.4		
			PMZ	m_B = 6.2		5.0	1.58
			sP	04 13 26.0	−0.3		
			S	04 20 46.0	0.0		
			SME	m_B = 5.8		8.0	0.99
			sS	04 21 02.0	−0.1		
			PS	04 21 02.0			
			LE	Ms = 5.8		16.0	4.25
XAN	55.2	283	eP	04 13 20.6	−0.2		
			PMZ	m_B = 6.3		5.0	2.00
			pP	04 13 30.0	0.1		
			PP	04 15 27.6	2.6		
			S	04 21 00.0	0.6		
			sS	04 21 15.5	0.0		
			LN	Ms = 6.1		16.0	4.22
			LE			16.0	6.10
QZH	55.4	268	+iP	04 13 23.0	0.4		
			iS	04 21 08.0	4.0		
			sS	04 21 22.0	3.0		
			ScS	04 23 11.0	5.8		
			LN	Ms = 5.5		20.0	2.77
LZH	56.9	288	+P	04 13 33.0	−0.3		
			PMZ	m_B = 6.6		5.0	3.69
			eS	04 21 22.0	−1.6		
			PS	04 21 41.0			
			LN	Ms = 6.3		17.0	11.6
			LE			17.0	3.60
GTA	57.0	293	+iP	04 13 33.4	−0.9		
			PMZ	m_B = 6.4		5.0	2.27
			S	04 21 27.4	3.3		
			PS	04 21 46.2			
			LN	Ms = 6.1		17.0	7.52
GZH	60.1	270	iP	04 13 55.0	−0.4		
			PMZ	m_B = 6.1		4.0	1.05
			eS	04 22 08.0	3.1		
			ScS	04 23 45.0	6.0		
			LN	Ms = 5.5		16.0	1.82
CD2	60.5	284	+P	04 13 58.2	0.0		
			PP	04 16 13.0	0.2		
			S	04 22 13.0	4.0		
			LE	Ms = 6.0		17.0	6.43
WMQ	60.7	304	P	04 13 58.0	−1.8		
			S	04 22 11.3	−0.6		
			sS	04 22 29.0	0.9		
			LN	Ms = 6.5		21.0	19.5
			LE			21.0	14.0
KMI	65.2	280	+P	04 14 19.0	−10.9		
			PMZ	m_B = 6.3		4.0	1.50
			sP	04 14 43.0	0.4		
			PP	04 16 56.5	1.9		
			S	04 23 12.0	3.4		
			SMN	m_B = 5.7		7.0	0.60
			LN	Ms = 5.7		16.0	2.60
QZN	65.3	270	+P	04 14 30.0	0.2		
			sP	04 14 44.0	1.2		
			PP	04 16 55.0	0.2		
			S	04 23 17.0	8.2		
			SMN			14.0	1.80
			LN	Ms = 5.8		19.0	2.80
			LE			18.0	2.00
LSA	68.9	291	P	04 14 54.4	1.0		
			PMZ	m_B = 6.4		4.0	2.06
			S	04 23 55.0	2.1		
			LN	Ms = 5.9		18.0	3.64
KSH	69.9	308	+iP	04 14 59.9	1.1		
			eS	04 24 08.9	3.2		
			eScS	04 24 59.9	6.1		
			LN	Ms = 6.2		18.0	8.50

1986 5 8

O = 04 19 59.0 ± 0.11s

LAT = 51.18 N ± 1.08km

LONG = 175.88 W ± 0.71km

DEPTH = 35 km ± 1.03km

STATIONS USED = 20, STAND DEV = 1.10s

CN2	39.4	283	eP	04 27 26.6	−0.8
SNY	41.6	282	+iP	04 27 47.1	1.2
BJI	47.2	284	eP	04 28 31.0	0.2
TIY	50.9	284	P	04 29 00.8	1.1
XAN	55.5	283	−P	04 29 32.8	−0.6

CD2	60.8	284	eP	04 30 11.2	0.5	

1986 5 8
O = 04 27 58.6 ± 0.11s
LAT = 51.32 N ± 1.01km
LONG = 176.19 W ± 0.69km
DEPTH = 38 km ± 1.00km
STATIONS USED = 21, STAND DEV = 1.17s

BJI	47.0	284	eP	04 36 28.0	−0.2	
XAN	55.3	283	eP	04 37 30.0	−1.1	
LZH	57.0	288	+P	04 37 43.0	−0.4	
CD2	60.6	284	eP	04 38 08.6	0.2	
KMI	65.4	280	eP	04 38 40.0	−0.1	

1986 5 8
O = 04 31 45.4 ± 0.10s
LAT = 51.05 N ± 1.23km
LONG = 176.36 W ± 0.89km
DEPTH = 39 km ± 0.97km
STATIONS USED = 19, STAND DEV = 1.30s

BJI	46.9	284	eP	04 40 14.0	−0.6	
XAN	55.2	283	eP	04 41 16.2	−1.3	
LZH	56.9	288	P	04 41 30.0	0.1	
GTA	57.1	293	+P	04 41 29.8	−1.3	
CD2	60.5	284	eP	04 41 56.2	1.4	
KMI	65.3	280	eP	04 42 26.0	−0.4	

1986 5 8
O = 04 32 19.6 ± 0.06s
LAT = 51.62 N ± 2.29km
LONG = 174.77 W ± 0.93km
DEPTH = 33 km ± 0.03km
STATIONS USED = 26, STAND DEV = 1.23s

CN2	40.0	283	eP	04 39 53.0	0.0	
TIA	49.6	280	eP	04 41 09.7	−0.7	
SSE	50.5	272	eP	04 41 17.6	0.4	
			esP	04 41 30.5	0.1	
TIY	51.5	285	eP	04 41 26.4	1.6	
WMQ	61.3	305	P	04 42 37.5	2.6	
GYA	62.8	279	P	04 42 44.4	−0.5	
KMI	66.2	281	−P	04 43 07.0	0.0	
QZN	66.3	271	eP	04 43 09.3	1.9	

1986 5 8
O = 04 45 16.1 ± 0.07s
LAT = 51.47 N ± 2.87km
LONG = 174.11 W ± 1.48km
DEPTH = 30 km ± 0.86km
STATIONS USED = 63, STAND DEV = 1.21s

MDJ	37.4	282	+P	04 52 28.5	−0.4	
CN2	40.4	284	+P	04 52 53.2	−0.4	
SNY	42.6	282	+iP	04 53 13.6	1.6	
BJI	48.2	285	eP	04 53 56.5	0.1	
TIA	50.1	280	eP	04 54 08.2	−2.4	
HHC	50.5	289	P	04 54 14.4	0.5	
SSE	50.9	273	P	04 54 17.5	0.2	
			PMZ			1.5 0.070
			cpP	04 54 28.0	1.9	
			sP	04 54 31.2	1.4	
BTO	51.5	289	P	04 54 23.2	1.2	
NJ2	51.7	275	−P	04 54 23.0	−0.3	
TIY	51.9	285	−P	04 54 26.0	1.0	
WHN	55.6	277	eP	04 54 51.2	−0.4	
XAN	56.5	284	+P	04 54 57.6	−0.9	
LZH	58.2	289	+P	04 55 10.0	−0.2	
GZH	61.5	272	P	04 55 36.0	2.9	
WMQ	61.7	306	+P	04 55 34.6	0.0	
CD2	61.8	285	eP	04 55 35.0	−0.2	
GYA	63.2	279	P	04 55 44.4	−0.3	
KMI	66.6	281	eP	04 56 06.5	−0.1	
QZN	66.7	272	eP	04 56 08.0	1.0	
LSA	70.1	293	eP	04 56 29.5	0.6	
KSH	70.8	310	eP	04 56 34.0	1.4	

1986 5 8
O = 05 20 24.5 ± 0.33s
LAT = 51.28 N ± 3.50km
LONG = 175.28 W ± 1.98km
DEPTH = 36 km ± 2.99km
STATIONS USED = 19, STAND DEV = 4.05s

SNY	42.0	282	+iP	05 28 14.5	0.4
BJI	47.5	284	eP	05 28 57.5	−1.3
SSE	50.2	272	eP	05 29 20.5	1.2
TIY	51.3	284	P	05 29 17.2	−10.4
XAN	55.8	283	eP	05 29 59.4	−1.8
WMQ	61.2	305	P	05 30 36.6	−2.3
GYA	62.5	279	P	05 30 56.6	9.0

1986 5 8
O = 05 32 06.7 ± 0.07s
LAT = 51.99 N ± 5.69km
LONG = 174.41 W ± 6.93km
DEPTH = 37 km ± 3.01km
STATIONS USED = 35, STAND DEV = 1.29s

MDJ	37.2	281	eP	05 39 15.0	−1.3	
CN2	40.1	283	+P	05 39 40.0	−0.9	
SNY	42.4	282	+iP	05 40 00.3	0.8	
BJI	47.9	284	eP	05 40 44.0	0.2	
SSE	50.7	272	P	05 41 05.5	0.0	
			PMZ			1.0 0.054

			esP	05 41 20.0	0.2	
BTO	51.2	289	eP	05 41 10.6	1.4	
NJ2	51.5	275	eP	05 41 10.5	−0.9	
TIY	51.6	284	P	05 41 13.3	0.9	
WHN	55.3	277	eP	05 41 38.5	−1.2	
XAN	56.2	284	+P	05 41 45.6	−0.5	
LZH	57.8	289	+P	05 41 57.5	−0.1	
WMQ	61.3	305	P	05 42 22.5	1.1	
GZH	61.3	271	eP	05 42 22.5	1.0	
CD2	61.5	285	eP	05 42 23.4	0.5	
GYA	63.0	279	P	05 42 32.0	−0.7	
KMI	66.3	281	eP	05 42 55.0	0.4	
QZN	66.5	271	eP	05 42 56.7	1.2	

1986 5 8
O = 05 37 18.5 ± 0.12s
LAT = 51.39 N ± 3.31km
LONG = 175.30 W ± 1.86km
DEPTH = 16 km ± 1.19km
STATIONS USED = 90, STAND DEV = 1.33s
Ms = 6.5 / 44, m_B = 6.7 / 42

MDJ	36.7	282	+iP	05 44 26.9	−0.5		
			PMZ	m_B = 6.6		6.0	6.99
			pP	05 44 33.0	−0.7		
			PP	05 45 50.0	−2.0		
			S	05 50 04.0	−5.2		
			LE	Ms = 6.6		18.0	58.4
CN2	39.7	283	+iP	05 44 51.5	−0.7		
			PMZ	m_B = 6.8		5.0	9.10
			pP	05 44 59.0	0.4		
			PP	05 46 28.5	1.3		
			PPMZ			8.0	6.00
			eS	05 50 51.0	−4.2		
			SMN	m_B = 6.4		12.0	7.10
			SME			12.0	4.30
			sS	05 51 03.5	−2.3		
			eSS	05 53 36.0	−6.6		
			LN	Ms = 6.8		19.0	78.2
SNY	41.9	282	+iP	05 45 11.8	1.2		
			PMZ	m_B = 5.7		11.0	1.54
			pP	05 45 18.2	1.2		
			sP	05 45 22.0	1.9		
			PP	05 46 53.0	2.3		
			S	05 51 28.5	1.0		
			SMN			27.0	24.8
			SME			27.0	17.8
			LN	Ms = 6.6		21.0	45.3
			LE			17.0	19.3
DL2	44.9	280	+iP	05 45 42.0	7.6		
			PMZ	m_B = 6.8		5.0	7.60
			pP	05 45 42.0	1.1		
			sP	05 45 46.0	2.2		
			PP	05 47 22.0	2.2		
			S	05 52 09.0	−1.1		
			LE	Ms = 6.5		18.0	31.6
BJI	47.5	284	+iP	05 45 55.5	0.1		
			PMZ	m_B = 6.7		9.0	10.3
			epP	05 46 02.0	0.2		
			eS	05 52 45.0	−4.0		
			SMN	m_B = 6.8		10.0	12.4
			eSS	05 56 03.0	−6.8		
			LN	Ms = 6.7		18.0	43.3
			LE			18.0	18.8
TIA	49.3	280	+P	05 46 09.4	−0.2		
			PMZ	m_B = 6.9		5.0	9.56
			pP	05 46 17.0	1.0		
			S	05 53 10.0	−3.6		
			SMN	m_B = 6.4		8.0	2.29
			SME			8.0	3.46
			sS	05 53 23.5	−1.9		
			LN	Ms = 6.5		19.0	8.90
			LE			19.0	26.2
HHC	49.8	288	+P	05 46 13.4	0.2		
			pP	05 46 21.5	2.1		
			S	05 53 24.5	4.6		
			sS	05 53 36.5	4.7		
			LN	Ms = 6.5		17.0	25.7
SSE	50.2	272	iP	05 46 16.3	0.2		
			PMZ	m_B = 6.9		6.0	10.8
			pP	05 46 23.0	0.5		
			sP	05 46 25.0	−0.5		
			ePcP	05 47 36.0	1.2		
			PP	05 48 12.0	0.4		
			PPMZ			16.0	8.32
			ScP	05 51 22.0	−6.4		
			PcS	05 51 32.0	1.6		
			S	05 53 28.0	2.5		
			SMN	m_B = 6.4		8.0	2.12
			SME			8.0	3.73
			sS	05 53 37.0	−0.4		
			eScS	05 56 02.0	−0.9		
			eSS	05 56 52.0	−3.6		
			LN	Ms = 6.2		18.0	6.14
			LE			18.0	11.4
BTO	50.9	289	−iP	05 46 22.0	0.6		
			PMZ	m_B = 7.0		5.0	12.2
			pP	05 46 29.0	1.4		
			PP	05 48 20.5	2.9		
			eScP	05 51 32.0	0.7		
			S	05 53 35.0	0.3		

			SMN		$m_B=6.5$		8.0	4.20
			SME				8.0	3.20
			sS	05 53 48.0		1.4		
			LN		Ms=6.7		19.0	39.6
			LE				20.0	3.59
NJ2	51.0	274	+iP	05 46 22.0		−0.3		
			PMZ		$m_B=6.4$		12.0	6.00
			S	05 53 39.5		2.8		
			SMN		$m_B=6.4$		10.0	4.50
			SME				9.0	3.00
TIY	51.2	284	+iP	05 46 25.0		0.8		
			PMZ		$m_B=7.1$		5.0	14.6
WHN	54.8	276	+iP	05 46 50.0		−0.9		
			PMZ		$m_B=6.6$		5.0	4.00
			sP	05 47 00.0		−0.4		
			S	05 54 28.0		−0.9		
			SMN		$m_B=6.7$		6.0	5.21
			PS	05 54 42.0				
			LN		Ms=6.3		18.0	15.8
XAN	55.8	283	+iP	05 46 57.4		−0.6		
			PMZ		$m_B=6.8$		5.0	6.57
			pP	05 47 07.0		2.6		
			S	05 54 42.0		0.2		
			SMN		$m_B=6.3$		8.0	3.21
			SME				10.0	1.68
			ScS	05 56 39.0		−3.1		
			LN		Ms=6.6		16.0	24.4
QZH	56.1	268	+P	05 47 00.0		−0.3		
			PMZ		$m_B=6.7$		5.0	5.04
			sP	05 47 14.5		4.8		
			PP	05 49 15.0		8.9		
			iS	05 54 44.0		−3.4		
			sS	05 55 06.0		7.8		
			LN		Ms=6.2		19.0	11.6
			LE				37.0	15.2
LZH	57.5	288	+iP	05 47 10.0		0.0		
			PMZ		$m_B=6.8$		5.0	6.52
			pP	05 47 17.0		0.7		
			cS	05 55 07.0		1.6		
			LN		Ms=6.9		19.0	38.5
			LE				22.0	51.2
GZH	60.8	271	+P	05 47 33.0		0.4		
			pP	05 47 41.0		1.9		
			iS	05 55 50.0		2.2		
			SMN		$m_B=6.4$		6.0	1.69
			SME				7.0	2.76
			sS	05 56 06.5		7.9		
			LN		Ms=6.5		16.0	10.9
			LE				16.0	12.3
CD2	61.1	284	cP	05 47 35.0		0.0		
			PMZ		$m_B=7.0$		5.0	10.4
			PP	05 49 50.0		−0.9		
			S	05 55 52.0		1.0		
			sS	05 56 06.0		3.0		
			LN		Ms=6.6		16.0	21.2
WMQ	61.2	305	+iP	05 47 34.6		−0.8		
			sP	05 47 46.0		1.3		
			PcP	05 48 19.8		2.8		
			S	05 55 48.3		−3.3		
			sS	05 56 00.0		−3.6		
			ScS	05 57 23.5		2.2		
			LN		Ms=6.9		20.0	55.4
GYA	62.5	279	P	05 47 44.2		−0.2		
			PMZ		$m_B=6.9$		4.0	5.90
			+P	05 47 44.0		0.4		
			pP	05 47 52.0		1.2		
			PP	05 50 01.0		−2.0		
			LN		Ms=6.6		19.0	17.6
			LE				19.0	20.8
KMI	65.9	280	+iP	05 48 06.5		−0.2		
			PP	05 50 32.0		−0.9		
			S	05 56 51.0		0.4		
			SMN		$m_B=6.4$		8.0	2.80
			sS	05 57 07.0		4.3		
			ScS	05 57 56.0		−1.2		
			SS	06 01 07.0		0.3		
			LN		Ms=7.4		16.0	112
QZN	66.0	271	+iP	05 48 08.0		1.1		
			PMZ		$m_B=6.7$		6.0	5.70
			pP	05 48 19.0		5.6		
			PP	05 50 38.0		4.5		
			S	05 56 58.0		6.6		
			SME		$m_B=6.3$		9.0	2.60
			sS	05 57 09.0		5.5		
			ScS	05 58 00.0		2.3		
			LN		Ms=6.4		18.0	6.50
			LE				18.0	12.8
LSA	69.5	292	iP	05 48 30.2		0.7		
			PMZ		$m_B=7.0$		4.5	7.42
			iS	05 57 38.5		2.6		
			LN		Ms=6.4		21.0	14.4
KSH	70.3	309	+iP	05 48 34.8		0.8		
			PcP	05 48 56.8		2.1		
			iS	05 57 43.8		−0.8		
			LE		Ms=6.9		15.0	35.2

1986 5 8

O = 06 02 19.7 ± 0.07s

LAT = 24.85 N ± 0.88km

LONG = 123.54 E ± 0.97km

DEPTH= 18 km ± 0.62km
STATIONS USED = 12, STAND DEV= 3.27s
M_L=3.3/ 1,

SSE	6.6	342	ePn	06 03 57.0	1.2	
			LN		1.5	0.062
			LE		1.5	0.10
CN2	19.0	4	eP	06 06 44.6	1.6	

1986 5 8
O=06 04 18.2 ± 0.14s
LAT=51.01 N ± 1.96km
LONG=176.00 W ± 1.28km
DEPTH= 41 km ± 1.33km
STATIONS USED = 74, STAND DEV= 1.12s

CN2	39.4	283	−P	06 11 45.0	−0.7	
SNY	41.6	282	−iP	06 12 04.8	0.7	
DL2	44.5	279	eP	06 12 27.8	0.1	
BJI	47.2	284	eP	06 12 49.0	0.0	
TIA	49.0	280	eP	06 13 02.6	−0.4	
SSE	49.8	272	P	06 13 10.0	0.9	
			PMZ		1.0	0.081
			pP	06 13 20.5	0.5	
NJ2	50.6	274	+P	06 13 14.5	−1.0	
TIY	50.9	284	eP	06 13 18.7	0.7	
			PMZ		1.2	0.24
WHN	54.4	276	eP	06 13 43.0	−1.2	
XAN	55.5	283	+P	06 13 50.6	−1.1	
QZH	55.7	268	+P	06 13 53.0	−0.2	
LZH	57.2	288	P	06 14 05.0	0.9	
GTA	57.3	294	+iP	06 14 04.0	−1.2	
GZH	60.3	271	P	06 14 26.0	0.1	
CD2	60.8	284	eP	06 14 29.3	0.4	
WMQ	61.0	305	P	06 14 29.0	−1.6	
GYA	62.1	278	P	06 14 37.2	−0.8	
QZN	65.5	270	eP	06 15 01.4	1.2	
KMI	65.5	280	+P	06 15 00.0	−0.5	
LSA	69.2	292	P	06 15 24.9	1.0	
KSH	70.2	308	−P	06 15 29.8	0.4	

1986 5 8
O=06 26 54.8 ± 0.16s
LAT=52.15 N ± 4.83km
LONG=174.62 W ± 1.91km
DEPTH= 30 km ± 0.30km
STATIONS USED = 29, STAND DEV= 2.15s

CN2	39.9	283	eP	06 34 27.5	−0.9
SNY	42.2	281	+iP	06 34 47.8	0.8
SSE	50.6	272	eP	06 35 52.3	−1.0
			sP	06 36 06.5	0.6
TIY	51.5	284	eP	06 36 00.4	0.4
XAN	56.0	283	eP	06 36 32.3	−1.4
GTA	57.7	294	P	06 36 43.8	−1.6
CD2	61.3	284	eP	06 37 09.6	−1.0
LSA	69.6	292	eP	06 38 04.0	−0.2

1986 5 8
O=06 41 59.5 ± 0.14s
LAT=51.31 N ± 1.54km
LONG=176.14 W ± 0.96km
DEPTH= 38 km ± 1.21km
STATIONS USED = 51, STAND DEV= 1.13s

MDJ	36.2	281	eP	06 49 00.0	−1.2
SNY	41.4	281	+iP	06 49 45.6	1.1
BJI	47.0	284	eP	06 50 29.0	−0.5
TIA	48.8	279	eP	06 50 43.4	−0.2
HHC	49.3	288	eP	06 50 47.0	−0.5
SSE	49.7	271	eP	06 50 50.0	−0.1
			esP	06 51 04.0	−0.6
BTO	50.4	288	eP	06 50 41.0	−14.0
TIY	50.7	284	eP	06 50 59.2	0.7
WHN	54.3	276	eP	06 51 25.5	0.5
XAN	55.3	283	eP	06 51 31.4	−0.9
GTA	57.1	293	eP	06 51 43.8	−1.7
CD2	60.6	284	eP	06 52 10.1	0.5
WMQ	60.8	304	P	06 52 09.5	−1.2
GYA	62.0	278	−P	06 52 19.4	0.5

1986 5 8
O=06 48 43.4 ± 0.13s
LAT=51.32 N ± 1.51km
LONG=174.97 W ± 0.85km
DEPTH= 38 km ± 1.19km
STATIONS USED = 34, STAND DEV= 1.06s

MDJ	36.9	282	eP	06 55 50.0	−1.1
CN2	39.9	283	+P	06 56 15.0	−0.8
BJI	47.7	285	eP	06 57 18.5	−0.4
TIA	49.5	280	eP	06 57 32.6	−0.5
SSE	50.4	272	eP	06 57 38.6	−0.9
TIY	51.5	285	eP	06 57 48.1	0.4
XAN	56.0	284	eP	06 58 20.0	−1.3
CD2	61.3	284	eP	06 58 58.0	−0.2
GYA	62.7	279	P	06 59 08.0	0.4
KMI	66.1	281	eP	06 59 29.0	−0.7
QZN	66.2	271	eP	06 59 30.5	0.6

1986 5 8
O=06 50 05.6 ± 0.11s
LAT=51.16 N ± 0.88km
LONG=176.38 W ± 0.73km
DEPTH= 39 km ± 0.90km

STATIONS USED = 18, STAND DEV= 1.07s

BJI	46.9	284	eP	06 58 34.0	−0.5
HHC	49.2	288	+P	06 58 53.0	0.4
BTO	50.3	288	eP	06 59 01.0	0.1
TIY	50.6	284	eP	06 59 04.6	1.1
LZH	56.9	288	P	06 59 49.5	−0.3
CD2	60.5	284	eP	07 00 14.8	0.1

1986 5 8
O=07 28 48.2 ± 0.22s
LAT=51.22 N ± 2.64km
LONG=175.16 W ± 1.41km
DEPTH= 43 km ± 1.95km
STATIONS USED = 53, STAND DEV= 1.49s

MDJ	36.9	282	eP	07 36 05.5	11.3
SNY	42.1	282	+iP	07 36 38.3	0.4
BJI	47.6	285	eP	07 37 22.0	−0.6
TIA	49.4	280	eP	07 37 36.0	−0.7
HHC	49.9	288	−P	07 37 40.8	0.4
SSE	50.3	272	eP	07 37 43.0	0.0
			csP	07 37 56.5	−2.4
BTO	51.0	289	eP	07 37 48.6	0.0
TIY	51.4	285	eP	07 37 51.5	0.1
WHN	54.9	277	eP	07 38 16.5	−1.3
XAN	55.9	283	+P	07 38 24.4	−0.6
LZH	57.6	289	P	07 38 36.5	−0.6
GTA	57.7	294	P	07 38 37.0	−0.9
CD2	61.2	284	eP	07 39 02.2	0.2
WMQ	61.3	305	P	07 39 00.8	−1.8
GYA	62.6	279	P	07 39 10.8	−0.5
QZN	66.0	271	eP	07 39 34.6	1.1
LSA	69.6	292	P	07 39 56.0	−0.4
KSH	70.4	309	eP	07 40 01.0	0.0

1986 5 8
O=07 33 50.6 ± 0.10s
LAT=50.98 N ± 4.43km
LONG=175.62 W ± 1.69km
DEPTH= 32 km ± 0.79km
STATIONS USED = 17, STAND DEV= 2.25s

BJI	47.4	284	eP	07 42 25.0	0.7
TIY	51.1	284	eP	07 42 52.4	−0.7
WMQ	61.2	305	P	07 44 03.7	−1.7
KMI	65.8	280	eP	07 44 38.0	2.6

1986 5 8
O=07 49 42.5 ± 0.04s
LAT=51.10 N ± 0.46km
LONG=174.82 W ± 0.26km
DEPTH= 43 km ± 0.34km

STATIONS USED = 6, STAND DEV= 1.47s

SNY	42.3	282	eP	07 57 50.5	17.1
SSE	50.5	272	eP	07 58 39.0	0.1
GYA	62.8	279	eP	08 00 06.2	−0.8

1986 5 8
O=08 11 59.7 ± 0.19s
LAT=51.61 N ± 2.12km
LONG=174.54 W ± 1.00km
DEPTH= 39 km ± 1.72km
STATIONS USED = 26, STAND DEV= 1.43s

CN2	40.1	283	eP	08 19 32.4	−1.2
SNY	42.3	282	−iP	08 19 53.4	1.3
SSE	50.7	272	eP	08 20 55.0	−2.6
			sP	08 21 09.0	−3.6
XAN	56.2	284	eP	08 21 38.4	−0.4
WMQ	61.4	305	eP	08 22 14.0	−1.0
GYA	62.9	279	P	08 22 25.2	0.0
KMI	66.3	281	eP	08 22 47.5	0.3

1986 5 8
O=08 25 20.9 ± 0.08s
LAT= 5.10 S ± 1.00km
LONG=153.24 E ± 0.69km
DEPTH= 57 km ± 0.88km
STATIONS USED = 16, STAND DEV= 1.49s

XAN	57.1	316	eP	08 35 04.0	−0.8
GTA	66.2	317	P	08 36 06.4	0.9
WMQ	76.3	317	+P	08 37 06.5	0.4

1986 5 8
O=08 49 50.9 ± 0.11s
LAT=50.96 N ± 1.36km
LONG=176.36 W ± 0.90km
DEPTH= 41 km ± 1.10km
STATIONS USED = 33, STAND DEV= 1.08s

SNY	41.4	281	eP	08 57 35.2	0.2
BJI	47.0	284	eP	08 58 20.5	0.4
TIA	48.7	279	eP	08 58 33.8	−0.2
SSE	49.5	271	eP	08 58 40.0	−0.1
			esP	08 58 53.5	−2.0
			ePcP	09 00 02.5	1.6
XAN	55.3	283	eP	08 59 22.0	−0.9
LZH	57.0	288	+P	08 59 35.0	−0.4
GTA	57.1	294	+iP	08 59 35.6	−1.0
CD2	60.6	284	P	09 00 01.0	0.8
WMQ	60.9	304	P	09 00 01.4	−0.8
GYA	61.9	278	eP	09 00 08.8	−0.5
KMI	65.3	280	eP	09 00 30.0	−1.8

1986 5 8
O=08 51 27.3 ± 0.20s
LAT= 5.16 S ± 1.65km
LONG=152.98 E ± 1.06km
DEPTH= 72 km ± 2.09km
STATIONS USED = 30, STAND DEV= 2.13s

XAN	57.0	316	eP	09 01 07.5	−1.0	
LZH	61.6	316	eP	09 01 41.0	0.6	
GTA	66.0	317	P	09 02 10.4	1.0	
WMQ	76.1	317	eP	09 03 12.0	2.1	
KSH	83.3	311	eP	09 03 53.9	5.5	

1986 5 8
O=08 59 07.9 ± 0.19s
LAT=24.04 N ± 2.00km
LONG=121.01 E ± 2.28km
DEPTH= 34 km ± 0.47km
STATIONS USED = 34, STAND DEV= 2.62s
Ms=4.2/ 7, M_L=4.4/ 3,

QZH	2.4	293	+P	08 59 44.8	−0.6		
			S	09 00 13.5	0.0		
			SMN	M_L=3.9		0.2	0.91
			SME			0.2	0.66
			LN			8.0	4.46
SSE	7.0	1	+P	09 00 49.2	−2.0		
			LG_1	09 02 47.5	−1.2		
			LG_2	09 03 00.0	0.2		
			LN	Ms=3.7		10.0	0.67
GZH	7.1	264	eP	09 00 51.3	−0.9		
			S	09 02 07.0	−5.3		
			LN	Ms=4.4		9.0	1.91
			LE			11.0	2.68
NJ2	8.2	347	−P	09 01 05.2	−2.3		
			S	09 02 36.0	−3.8		
			LE	Ms=3.8		10.0	0.60
WHN	8.8	319	eP	09 01 13.0	−2.5		
			S	09 02 46.5	−7.6		
			LG_1	09 03 36.0	−7.6		
			LN	Ms=4.9		4.0	2.47
			LE			6.0	2.02
QZN	11.5	247	eP	09 01 53.0	−0.3		
			eS	09 04 01.8	−0.1		
			LN	Ms=4.3		14.0	0.60
			LE			13.0	1.20
BJI	16.5	347	(P)	09 03 04.0	5.9		
KMI	16.7	277	eP	09 03 00.0	−0.8		
HHC	18.5	337	P	09 03 26.6	2.5		
LZH	19.1	313	eP	09 03 31.0	0.4		
CN2	20.0	9	eP	09 03 42.0	0.9		

1986 5 8
O=09 05 15.2 ± 0.10s
LAT=51.68 N ± 2.26km
LONG=174.73 W ± 1.04km
DEPTH= 32 km ± 1.03km
STATIONS USED = 26, STAND DEV= 2.24s

CN2	40.0	283	eP	09 12 49.0	0.2		
SNY	42.2	282	eP	09 13 04.4	−2.9		
SSE	50.5	272	eP	09 14 14.6	1.6		
			PMZ			1.0	0.018
GYA	62.8	279	P	09 15 40.6	−0.1		
KMI	66.2	281	eP	09 16 03.0	0.3		

1986 5 8
O=09 10 06.0 ± 0.21s
LAT= 4.91 S ± 1.65km
LONG=153.21 E ± 0.81km
DEPTH= 62 km ± 1.89km
STATIONS USED = 41, STAND DEV= 1.61s

NJ2	49.2	321	−P	09 18 51.8	1.5
TIA	53.0	323	eP	09 19 18.1	−1.5
MDJ	53.7	339	eP	09 19 23.5	−0.6
CN2	54.6	336	eP	09 19 30.0	−0.7
BJI	56.2	326	(P)	09 19 42.0	−0.6
XAN	57.0	316	+P	09 19 47.5	−0.7
KMI	57.4	304	eP	09 19 51.5	0.3
CD2	59.1	310	eP	09 20 03.0	−0.1
GTA	66.0	317	+iP	09 20 49.9	0.8
WMQ	76.1	317	P	09 21 50.1	0.4

1986 5 8
O=09 19 30.1 ± 0.03s
LAT=51.72 N ± 1.53km
LONG=174.83 W ± 0.53km
DEPTH= 26 km ± 0.32km
STATIONS USED = 12, STAND DEV= 0.80s

KMI	66.1	281	eP	09 30 18.5	0.3

1986 5 8
O=10 10 21.1 ± 0.13s
LAT=51.38 N ± 1.82km
LONG=175.58 W ± 1.07km
DEPTH= 28 km ± 1.29km
STATIONS USED = 24, STAND DEV= 1.61s

CN2	39.5	283	eP	10 17 50.0	−1.6
SNY	41.8	281	eP	10 18 11.4	1.3
BJI	47.3	284	eP	10 18 55.0	0.1
TIY	51.1	284	eP	10 19 24.0	0.3
CD2	60.9	284	eP	10 20 34.6	−0.1
GYA	62.3	278	eP	10 20 43.6	−0.4

1986 5 8
O=10 52 20.9 ± 0.34s
LAT=51.35 N ± 2.85km
LONG=175.71 W ± 1.59km
DEPTH= 49 km ± 2.70km
STATIONS USED = 50, STAND DEV= 2.03s

SNY	41.7	281	−iP	11 00 07.8	0.9
BJI	47.3	284	eP	11 00 52.0	0.3
TIA	49.1	279	+P	11 01 05.8	−0.1
HHC	49.6	288	P	11 01 12.6	3.0
BTO	50.6	289	eP	11 01 17.6	−0.2
NJ2	50.8	274	+P	11 01 19.4	0.8
TIY	51.0	284	P	11 01 21.0	0.4
WHN	54.6	276	eP	11 01 45.7	−1.5
XAN	55.6	283	eP	11 01 53.7	−0.6
LZH	57.2	288	eP	11 02 04.0	−2.5
GTA	57.4	294	P	11 02 05.4	−1.9
CD2	60.9	284	eP	11 02 31.6	0.1
GYA	62.3	278	+P	11 02 40.0	−0.8
KMI	65.6	280	+P	11 03 03.0	−0.1
QZN	65.7	270	eP	11 03 04.3	1.0

1986 5 8
O=11 16 51.3 ± 0.07s
LAT=73.19 N ± 1.04km
LONG= 6.14 E ± 1.57km
DEPTH= 8 km ± 0.15km
STATIONS USED = 21, STAND DEV= 1.62s

WMQ	46.3	82	P	11 25 22.2	2.4
GTA	53.8	73	+P	11 26 18.4	1.0
			eS	11 33 47.5	−3.7
CD2	62.9	73	eP	11 27 21.5	0.6
KMI	68.1	76	eP	11 27 53.5	−1.0

1986 5 8
O=11 23 55.4 ± 0.10s
LAT=51.33 N ± 1.94km
LONG=174.55 W ± 0.90km
DEPTH= 37 km ± 1.06km
STATIONS USED = 46, STAND DEV= 1.02s

MDJ	37.2	282	eP	11 31 04.5	−0.9
CN2	40.2	284	eP	11 31 29.8	−0.3
SNY	42.4	282	−iP	11 31 49.7	1.2
BJI	48.0	285	eP	11 32 33.0	0.0
TIA	49.8	280	eP	11 32 46.3	−0.9
NJ2	51.5	275	eP	11 33 00.0	0.2
TIY	51.7	285	eP	11 33 02.0	0.3
GTA	58.0	294	P	11 33 46.8	−1.0
WMQ	61.6	305	−P	11 34 11.5	−0.6
CD2	61.6	285	eP	11 34 12.2	0.2
GYA	63.0	279	P	11 34 20.6	−0.8
KMI	66.4	281	eP	11 34 44.0	0.5
QZN	66.4	271	eP	11 34 42.4	−1.3

1986 5 8
O=11 43 43.9 ± 0.13s
LAT=36.22 N ± 1.68km
LONG= 77.69 E ± 2.53km
DEPTH= 31 km ± 0.31km
STATIONS USED = 21, STAND DEV= 3.12s
M_L=4.5/ 1,

KSH	3.5	338	ePn	11 44 42.6	5.8	
			Pg	11 44 49.6	3.6	
			Sg	11 45 43.6	9.6	
WMQ	10.8	42	P	11 46 18.0	−1.6	
			S	11 48 20.0	0.0	
			LG_1	11 49 23.3	0.4	
			LN		2.0	0.15
KMI	24.2	110	eP	11 49 01.0	2.3	
GYA	26.5	103	eP	11 49 19.4	−1.5	

1986 5 8
O=11 58 17.4 ± 0.16s
LAT=51.00 N ± 1.91km
LONG=176.18 W ± 1.50km
DEPTH= 53 km ± 1.60km
STATIONS USED = 35, STAND DEV= 1.83s

SNY	41.5	282	+iP	12 06 02.0	0.8
BJI	47.1	284	eP	12 06 46.0	−0.3
TIY	50.8	284	+P	12 07 15.3	0.1
XAN	55.4	283	P	12 07 48.0	−1.0
GTA	57.2	294	P	12 08 00.0	−2.6
CD2	60.7	284	eP	12 08 26.1	−0.1
GYA	62.0	278	P	12 08 36.6	1.3
KMI	65.4	280	eP	12 08 59.5	1.7

1986 5 8
O=12 05 58.4 ± 0.15s
LAT=51.10 N ± 2.13km
LONG=176.31 W ± 1.37km
DEPTH= 27 km ± 1.47km
STATIONS USED = 18, STAND DEV= 2.10s

BJI	47.0	284	eP	12 14 31.0	1.6
TIY	50.7	284	eP	12 14 59.1	0.7
LZH	57.0	288	eP	12 15 44.5	−0.2
GTA	57.1	293	−P	12 15 44.4	−1.4
CD2	60.6	284	eP	12 16 11.6	2.0
GYA	61.9	278	P	12 16 18.6	−0.2

1986 5 8
O = 12 22 28.6 ± 0.11s
LAT = 51.67 N ± 2.18km
LONG = 174.49 W ± 1.05km
DEPTH = 31 km ± 1.20km
STATIONS USED = 54, STAND DEV = 0.97s

MDJ	37.2	282	eP	12 29 37.6	−1.3
CN2	40.1	283	−P	12 30 03.2	−0.4
SNY	42.4	282	−iP	12 30 23.1	1.0
DL2	45.3	280	eP	12 30 44.8	−1.0
BJI	47.9	285	eP	12 31 07.0	0.5
TIA	49.8	280	eP	12 31 20.8	0.0
NJ2	51.5	275	+P	12 31 34.0	0.3
TIY	51.7	285	eP	12 31 35.0	−0.2
WHN	55.3	277	eP	12 32 01.0	−1.1
XAN	56.2	284	+P	12 32 08.3	−0.5
GTA	57.9	294	−iP	12 32 20.1	−0.9
WMQ	61.4	305	P	12 32 44.8	−0.1
CD2	61.5	285	eP	12 32 45.6	0.0
KMI	66.3	281	+P	12 33 17.5	0.3
QZN	66.5	271	eP	12 33 18.8	1.1

1986 5 8
O = 12 34 48.1 ± 0.20s
LAT = 51.65 N ± 3.60km
LONG = 175.28 W ± 1.51km
DEPTH = 37 km ± 1.97km
STATIONS USED = 66, STAND DEV = 1.99s

MDJ	36.7	281	eP	12 41 53.0	−0.8
CN2	39.6	283	+P	12 42 18.5	0.0
SNY	41.9	281	−iP	12 42 28.7	−8.3
BJI	47.5	284	eP	12 43 22.5	0.9
TIA	49.3	280	+P	12 43 36.4	0.4
HHC	49.7	288	P	12 43 39.6	0.3
BTO	50.8	289	eP	12 43 47.5	0.0
NJ2	51.0	274	+P	12 43 48.8	−0.1
TIY	51.2	284	−P	12 43 51.0	0.5
WHN	54.8	276	P	12 44 16.7	−0.7
XAN	55.8	283	P	12 44 24.0	−0.2
LZH	57.4	288	eP	12 44 35.0	−1.1
GTA	57.5	294	P	12 44 35.0	−1.7
GZH	60.8	271	P	12 45 00.0	0.7
WMQ	61.0	305	+P	12 44 59.3	−1.8
CD2	61.1	284	eP	12 45 02.1	0.8
GYA	62.5	278	P	12 45 10.6	−0.2
KMI	65.9	280	−P	12 45 33.5	0.5
QZN	66.0	271	eP	12 45 34.8	1.3

1986 5 8
O = 13 22 39.0 ± 0.14s
LAT = 51.28 N ± 1.68km
LONG = 175.44 W ± 1.27km
DEPTH = 38 km ± 1.33km
STATIONS USED = 28, STAND DEV = 1.35s

CN2	39.6	283	+P	13 30 08.7	−0.4
SNY	41.9	282	eP	13 30 28.6	1.0
BJI	47.5	284	eP	13 31 12.5	0.2
TIY	51.2	284	P	13 31 40.4	−0.8
XAN	55.7	283	eP	13 32 14.0	−0.9
CD2	61.1	284	eP	13 32 52.0	0.0
WMQ	61.2	305	eP	13 32 49.4	−3.3
GYA	62.4	279	P	13 33 02.0	0.7
KMI	65.8	280	eP	13 33 24.0	0.5

1986 5 8
O = 13 29 01.8 ± 0.09s
LAT = 51.46 N ± 4.22km
LONG = 175.50 W ± 1.87km
DEPTH = 29 km ± 0.73km
STATIONS USED = 31, STAND DEV = 1.40s

CN2	39.6	283	eP	13 36 31.4	−0.9
SNY	41.8	281	−iP	13 36 52.4	1.6
BJI	47.4	284	eP	13 37 36.0	0.4
TIA	49.2	280	eP	13 37 49.6	−0.2
NJ2	50.9	274	eP	13 38 03.5	0.9
XAN	55.7	283	eP	13 38 37.6	−0.6
LZH	57.3	288	eP	13 38 50.0	−0.3
GTA	57.4	294	eP	13 38 45.7	−5.3
CD2	61.0	284	eP	13 39 15.4	0.1
WMQ	61.0	305	P	13 39 14.5	−1.2
GYA	62.4	278	eP	13 39 24.6	−0.2

1986 5 8
O = 14 37 34.9 ± 0.10s
LAT = 4.64 N ± 1.64km
LONG = 125.58 E ± 2.34km
DEPTH = 165 km ± 0.12km
STATIONS USED = 92, STAND DEV = 1.57s
m_B = 5.9 / 28

QZN	21.0	314	−P	14 42 07.8	1.1		
			PMZ	m_B = 6.3		7.0	7.50
			sP	14 42 56.0	−1.7		
			PcP	14 46 07.0	−1.0		
			ScP	14 49 27.0	−0.6		
			iS	14 45 53.0	7.0		
			SMN	m_B = 6.8		11.0	33.8
			SME			11.0	12.9
			PcS	14 49 47.0	2.5		
			ScS	14 53 16.5	6.4		
QZH	21.3	342	+P	14 42 08.0	−1.4		

			PP	14 42 41.0	−0.9		
			iS	14 45 49.0	−2.1		
			SS	14 46 43.0	2.9		
			PcS	14 49 42.0	−3.2		
			ScS	14 53 16.0	4.9		
			sScS	14 54 17.0			
			LN			16.0	5.22
GZH	21.8	328	−iP	14 42 16.0	1.2		
			PMZ	$m_B = 5.9$		12.0	5.22
			pP	14 42 43.5	−2.4		
			iS	14 46 05.0	4.2		
			SMN	$m_B = 6.7$		12.0	25.2
			SME			11.0	21.4
			sS	14 46 53.0	4.1		
			ScS	14 53 14.0	0.9		
WHN	27.9	339	−P	14 43 11.5	0.0		
			pP	14 43 48.0	2.9		
			PcP	14 46 24.5	1.7		
			S	14 47 42.0	1.4		
			SME	$m_B = 5.6$		10.0	3.96
			ScP	14 49 52.0	5.5		
			iScS	14 53 40.5	2.8		
			LN			10.0	13.3
			LE			11.0	24.3
NJ2	28.0	348	+P	14 43 12.5	−0.1		
			S	14 47 43.0	0.3		
			ScP	14 49 50.0	3.1		
GYA	28.3	322	−P	14 43 15.0	−0.1		
			pP	14 43 47.0	−1.7		
			sP	14 44 08.0	−0.1		
			PcP	14 46 29.0	5.2		
			S	14 47 47.0	0.1		
			sS	14 48 46.0	−1.2		
			ScP	14 49 50.0	2.3		
			ScS	14 53 43.0	3.5		
			LN			11.0	13.3
			LE			11.0	8.80
TIA	32.4	347	eP	14 43 51.0	−0.3		
			ScP	14 50 05.0	3.9		
			eS	14 48 50.0	−2.4		
			SMN	$m_B = 5.8$		10.0	0.78
			SME			10.0	4.80
			ScS	14 54 04.2	4.8		
XAN	33.1	334	+iP	14 43 56.6	−1.0		
			pP	14 44 30.5	−1.6		
			PP	14 45 11.0	−2.4		
			PPMZ			7.0	1.64
			PcP	14 46 36.0	−0.5		
			iS	14 49 00.0	−3.9		
			SMN	$m_B = 5.9$		10.0	3.36
			SME			9.0	3.94
CD2	33.2	324	−iP	14 43 59.0	0.2		
			pP	14 44 30.0	−3.3		
			PP	14 45 15.0	−0.1		
			S	14 49 04.0	−1.1		
			SME	$m_B = 6.1$		12.0	11.9
			sS	14 49 58.0	−8.6		
			LN			15.0	13.2
DL2	34.3	355	eP	14 44 08.5	0.8		
			pP	14 44 40.0	−2.5		
			sP	14 44 55.0	−6.6		
			S	14 49 20.0	−1.3		
			SME	$m_B = 5.7$		9.0	3.02
			ScS	14 54 15.0	5.5		
TIY	35.0	342	−P	14 44 10.0	−4.1		
			pP	14 44 48.0	−1.0		
			PP	14 45 27.0	−9.1		
			S	14 49 28.5	−4.3		
			SME	$m_B = 5.7$		10.0	2.41
BJI	36.3	348	eP	14 44 23.0	−1.2		
			epP	14 44 57.0	−2.4		
			ePP	14 45 48.0	−2.1		
			PcP	14 46 47.0	1.4		
			ScP	14 50 18.5	3.6		
			S	14 49 50.0	−1.2		
			SMN	$m_B = 5.9$		7.0	1.11
			SME			9.0	2.62
			esS	14 50 45.0	−8.4		
			eSS	14 52 16.0	−8.7		
			ScS	14 54 26.5	6.4		
			LN			14.0	3.66
SNY	37.1	358	−iP	14 44 31.6	0.5		
			iS	14 50 04.0	−0.6		
			SMN			18.0	3.90
			SME			16.0	9.50
			LN			18.0	8.30
			LE			16.0	20.1
LZH	37.1	330	+P	14 44 32.0	0.1		
			pP	14 45 04.0	−3.0		
			S	14 50 02.0	−2.9		
			sS	14 51 01.5	−5.8		
			LN			8.0	9.80
			LE			9.0	5.80
HHC	38.2	343	eP	14 44 40.4	−0.2		
			PMZ	$m_B = 5.7$		4.0	0.79
			iS	14 50 20.0	−1.8		
			SME	$m_B = 6.0$		9.0	3.14
			LE			13.0	10.4
BTO	38.4	341	P	14 44 42.5	−0.2		
			pP	14 45 18.0	0.1		

			PcP	14 46 52.0	−0.3		
			S	14 50 22.0	−2.5		
			sS	14 51 25.0	−2.3		
			LN			12.0	4.70
			LE			12.0	3.90
CN2	39.0	360	eP	14 44 47.0	−0.2		
			PMZ	m_B = 5.7		5.0	0.90
			pP	14 45 21.5	−1.1		
			PP	14 46 19.0	−3.8		
			PPMZ			6.0	1.50
			PcP	14 46 55.8	1.7		
			ScP	14 50 29.5	4.3		
			SME	m_B = 5.9		10.0	3.00
			sS	14 51 30.5	−5.2		
			SS	14 53 20.0	−3.9		
			ScS	14 54 38.0	2.2		
MDJ	40.0	4	+iP	14 44 56.0	0.8		
			pP	14 45 31.0	0.3		
			PP	14 46 33.0	−0.2		
			PcP	14 46 58.0	0.8		
			S	14 50 49.0	1.7		
			sS	14 51 50.0	−0.3		
			ScP	14 50 31.0	2.0		
			SS	14 53 45.0	0.4		
			ScS	14 54 43.0	1.6		
			LE			7.0	4.30
LSA	41.0	311	−P	14 45 04.0	0.0		
			PMZ	m_B = 6.0		5.0	2.01
			pP	14 45 33.5	−5.6		
			iS	14 51 03.4	−0.7		
			ScS	14 54 44.0	−3.4		
WMQ	51.3	325	−P	14 46 24.6	−0.3		
			pP	14 46 59.0	−2.8		
			PcP	14 47 41.0	4.2		
			PP	14 48 22.5	−1.7		
			S	14 53 30.0	1.0		
			SMN	m_B = 6.4		8.0	4.99
			ScS	14 55 56.0	1.8		
			LN			22.0	26.3
KSH	56.6	315	−iP	14 47 03.4	0.2		
			pP	14 47 36.4	−4.2		
			sP	14 47 51.4	−7.5		
			iS	14 54 43.4	2.8		
			sS	14 55 43.4	−2.5		
			eScS	14 56 34.4	3.3		
			LE			13.0	4.40

1986 5 8
O = 14 46 35.4 ± 0.06s
LAT = 24.40 N ± 0.46km
LONG = 121.97 E ± 0.14km
DEPTH = 35 km ± 0.78km
STATIONS USED = 6, STAND DEV = 2.09s

SSE	6.7	354	cPg	14 48 33.0	−1.0
QZN	12.5	247	+P	14 49 31.6	−2.0
XAN	14.9	313	P	14 50 07.0	1.6

1986 5 8
O = 15 24 39.3 ± 0.10s
LAT = 51.49 N ± 3.80km
LONG = 176.25 W ± 1.28km
DEPTH = 21 km ± 1.39km
STATIONS USED = 24, STAND DEV = 1.33s

BJI	46.9	284	eP	15 33 11.5	0.7
BTO	50.3	288	P	15 33 38.0	1.0
TIY	50.6	284	eP	15 33 37.0	−2.8
GTA	57.0	293	+P	15 34 26.0	−0.8
CD2	60.5	283	eP	15 34 51.6	0.5
GYA	61.9	278	P	15 35 02.0	1.5

1986 5 8
O = 15 31 28.3 ± 0.04s
LAT = 51.20 N ± 1.77km
LONG = 175.74 W ± 0.71km
DEPTH = 35 km ± 0.44km
STATIONS USED = 12, STAND DEV = 1.09s

SNY	41.7	282	eP	15 39 15.4	−0.4
BJI	47.3	284	eP	15 40 01.5	0.8
TIY	51.0	284	eP	15 40 27.0	−2.6
KMI	65.7	280	eP	15 42 12.5	0.4

1986 5 8
O = 15 47 28.2 ± 0.09s
LAT = 51.29 N ± 5.27km
LONG = 176.52 W ± 1.63km
DEPTH = 29 km ± 1.47km
STATIONS USED = 20, STAND DEV = 1.71s

BJI	46.8	284	eP	15 55 58.0	0.5
BTO	50.2	288	P	15 56 24.6	0.7
TIY	50.5	284	eP	15 56 23.0	−3.5
LZH	56.8	288	+P	15 57 13.0	0.2
GTA	56.9	293	P	15 57 13.4	−0.5
CD2	60.4	283	eP	15 57 38.0	0.1

1986 5 8
O = 16 05 48.6 ± 0.37s
LAT = 51.45 N ± 3.50km
LONG = 175.46 W ± 1.79km
DEPTH = 32 km ± 3.12km
STATIONS USED = 60, STAND DEV = 1.89s

MDJ	36.6	281	eP	16 12 53.0	−1.2		
CN2	39.6	283	−P	16 13 18.0	−1.0		
SNY	41.8	281	+iP	16 13 39.3	1.8		
BJI	47.4	284	eP	16 14 23.0	0.8		
TIA	49.2	280	eP	16 14 37.2	0.7		
HHC	49.7	288	P	16 14 40.6	0.6		
BTO	50.7	289	eP	16 14 49.0	0.8		
NJ2	50.9	274	+P	16 14 51.0	1.8		
TIY	51.1	284	+P	16 14 46.9	−4.2		
			PMZ			1.1	0.090
WHN	54.7	276	eP	16 15 17.2	−0.6		
XAN	55.7	283	+iP	16 15 24.2	−0.6		
LZH	57.4	288	eP	16 15 31.5	−5.4		
CD2	61.0	284	eP	16 16 02.3	0.3		
WMQ	61.0	305	P	16 16 01.5	−0.8		
GYA	62.4	278	P	16 16 11.2	−0.2		
KMI	65.8	280	+P	16 16 34.0	0.4		
QZN	65.9	271	eP	16 16 35.1	1.2		
LSA	69.4	292	eP	16 16 56.4	0.0		

1986 5 8
O = 16 07 23.0 ± 0.14s
LAT = 32.61 N ± 2.18km
LONG = 132.78 E ± 2.12km
DEPTH = 56 km ± 1.85km
STATIONS USED = 26, STAND DEV = 3.07s
Ms = 4.2 / 1,

SSE	10.0	264	eP	16 09 54.0	7.6		
			eS	16 11 38.0	1.1		
			LN	Ms = 4.2		10.0	0.44
			LE			10.0	0.88
NJ2	11.8	271	+P	16 10 15.3	4.2		
BJI	15.3	304	eP	16 10 59.5	2.5		
TIY	17.4	293	P	16 11 26.4	2.8		
BTO	19.9	300	eP	16 11 48.0	−5.0		
XAN	20.0	281	eP	16 11 55.0	1.2		
CD2	24.7	274	eP	16 12 38.6	−2.0		
GTA	27.4	294	eP	16 13 02.0	−3.9		

1986 5 8
O = 16 36 00.5 ± 0.07s
LAT = 51.72 N ± 3.64km
LONG = 173.99 W ± 1.38km
DEPTH = 28 km ± 0.61km
STATIONS USED = 76, STAND DEV = 1.16s
Ms = 5.3 / 15,

MDJ	37.5	282	+P	16 43 13.0	−0.8		
CN2	40.4	283	P	16 43 38.3	−0.1		
			sP	16 43 52.6	2.0		
			eS	16 49 43.0	−2.0		
SNY	42.7	282	+iP	16 43 57.6	0.8		
DL2	45.6	280	eP	16 44 21.6	1.0		
BJI	48.2	285	eP	16 44 42.0	0.9		
			eS	16 51 36.0	−2.0		
			LN	Ms = 5.5		19.0	3.14
TIA	50.1	280	eP	16 44 55.6	0.1		
			LE	Ms = 5.3		16.0	1.38
SSE	51.0	273	−P	16 45 02.5	0.1		
			PMZ			1.0	0.14
			sP	16 45 17.0	2.4		
			PP	16 46 59.0	0.0		
			eS	16 52 22.0	5.4		
			sS	16 52 34.0	3.0		
			LE	Ms = 5.1		16.0	0.87
BTO	51.5	289	P	16 45 08.0	1.4		
			epP	16 45 18.0	3.0		
			eS	16 52 26.0	1.8		
			LN	Ms = 5.5		20.0	1.50
			LE			20.0	2.60
NJ2	51.8	275	−P	16 45 08.0	−0.4		
			sP	16 45 21.5	0.8		
			S	16 52 31.0	4.5		
			LE	Ms = 4.9		16.0	0.60
TIY	51.9	285	+P	16 45 05.1	−4.6		
			PMZ			1.2	0.11
			eS	16 52 26.5	−3.5		
			sS	16 52 45.0	0.9		
			LN	Ms = 5.4		16.0	1.04
			LE			17.0	1.60
WHN	55.6	277	eP	16 45 36.0	−0.6		
			sP	16 45 51.0	2.0		
			eS	16 53 22.0	2.6		
			sS	16 53 39.0	5.3		
			LE	Ms = 5.3		18.0	1.32
XAN	56.5	284	P	16 45 42.3	−0.9		
			LE	Ms = 5.2		17.0	1.11
QZH	57.0	269	eP	16 45 45.8	−0.5		
LZH	58.1	289	+P	16 45 55.0	0.2		
GTA	58.2	295	−iP	16 45 54.3	−0.9		
			eS	16 53 51.5	−2.3		
			LN	Ms = 5.4		16.0	1.47
GZH	61.6	272	eP	16 46 19.1	0.9		
WMQ	61.6	306	P	16 46 19.0	0.3		
			sP	16 46 33.0	2.0		
			LN	Ms = 5.7		20.0	3.33
KMI	66.6	281	eP	16 46 52.5	1.0		
			sP	16 47 06.0	2.4		
QZN	66.8	272	P	16 46 53.0	0.9		
			eS	16 55 39.0	−2.3		
LSA	70.1	293	eP	16 47 14.0	0.6		

			P	16 47 14.0	1.9	
KSH	70.7	310	eP	16 47 18.3	1.7	

1986 5 8
O = 19 19 28.3 ± 0.13s
LAT = 51.38 N ± 2.08km
LONG = 175.21 W ± 1.01km
DEPTH = 41 km ± 1.27km
STATIONS USED = 19, STAND DEV = 1.54s

SSE	50.2	272	eP	19 28 22.3	−0.7	
XAN	55.9	283	eP	19 29 04.3	−0.4	
GTA	57.6	294	eP	19 29 15.5	−2.0	
GYA	62.6	279	P	19 29 51.0	−0.2	
KMI	65.9	281	eP	19 30 13.5	0.1	

1986 5 8
O = 21 16 36.3 ± 0.06s
LAT = 9.57 N ± 0.73km
LONG = 126.75 E ± 0.92km
DEPTH = 32 km ± 0.37km
STATIONS USED = 12, STAND DEV = 1.07s

GYA	25.4	314	eP	21 21 50.4	−11.6	
GTA	38.2	325	eP	21 23 53.9	−1.6	

1986 5 8
O = 21 47 00.5 ± 0.12s
LAT = 42.65 N ± 1.16km
LONG = 79.27 E ± 0.92km
DEPTH = 27 km ± 1.36km
STATIONS USED = 9, STAND DEV = 4.12s

				M_L = 3.8 / 7,			
KSH	4.0	219	eP*	21 48 12.1	5.0		
			iS*	21 49 05.1	8.8		
WMQ	6.3	76	Pn	21 48 35.5	3.7		
			Pg	21 48 54.8	3.6		
			Sn	21 49 47.2	2.8		
			Sg	21 50 18.8	1.9		
			SMN	M_L = 3.6		0.8	0.040

1986 5 8
O = 22 36 01.1 ± 0.15s
LAT = 51.10 N ± 1.58km
LONG = 176.08 W ± 1.15km
DEPTH = 36 km ± 1.43km
STATIONS USED = 20, STAND DEV = 1.51s

BJI	47.1	284	eP	22 44 32.0	0.1
TIY	50.8	284	eP	22 44 46.2	−13.9
XAN	55.4	283	eP	22 45 34.3	−0.3
GTA	57.2	294	P	22 45 46.5	−1.5
GYA	62.1	278	P	22 46 23.0	2.0

1986 5 8
O = 22 45 24.4 ± 0.16s
LAT = 51.53 N ± 1.10km
LONG = 175.25 W ± 0.72km
DEPTH = 53 km ± 1.25km
STATIONS USED = 13, STAND DEV = 1.67s

SNY	41.9	282	−P	22 53 12.1	0.0
SSE	50.2	272	e	22 54 17.0	−0.6
GYA	62.5	279	P	22 55 44.6	−1.1
KMI	65.9	280	eP	22 56 07.0	−0.8

1986 5 8
O = 22 50 56.2 ± 0.22s
LAT = 51.53 N ± 1.58km
LONG = 174.57 W ± 0.80km
DEPTH = 60 km ± 1.88km
STATIONS USED = 12, STAND DEV = 2.22s

SSE	50.6	272	e	22 59 51.5	−0.6
KMI	66.3	281	eP	23 01 39.5	−2.0

1986 5 8
O = 23 11 11.1 ± 0.07s
LAT = 51.66 N ± 2.84km
LONG = 174.05 W ± 1.25km
DEPTH = 31 km ± 0.39km
STATIONS USED = 55, STAND DEV = 1.20s

CN2	40.4	283	eP	23 18 48.4	0.0		
SNY	42.6	282	+iP	23 19 07.7	0.8		
BJI	48.2	285	eP	23 19 51.5	0.3		
SSE	51.0	273	−P	23 20 14.7	2.3		
			PMZ			1.0	0.045
			epP	23 20 25.0	3.7		
BTO	51.5	289	eP	23 20 16.0	−0.7		
NJ2	51.8	275	−P	23 20 17.8	−0.6		
WHN	55.6	277	eP	23 20 47.5	0.9		
XAN	56.5	284	+P	23 20 52.2	−1.1		
LZH	58.1	289	eP	23 21 05.0	0.1		
GTA	58.2	295	+iP	23 21 04.0	−1.3		
GZH	61.5	272	eP	23 21 30.0	1.8		
WMQ	61.6	306	eP	23 21 28.2	−0.8		
CD2	61.8	285	eP	23 21 30.0	0.0		
GYA	63.2	279	P	23 21 41.0	1.4		
QZN	66.7	272	eP	23 22 04.0	1.9		
LSA	70.1	293	eP	23 22 23.5	0.0		
KSH	70.7	310	eP	23 22 29.0	2.1		

1986 5 8
O = 23 48 28.1 ± 0.05s
LAT = 14.60 S ± 0.56km

LONG = 167.27 E ± 1.03km
DEPTH = 177 km ± 0.33km
STATIONS USED = 9, STAND DEV = 1.20s

GTA	82.6	314	P	24 00 33.5	0.0		

1986 5 8
O = 23 58 36.0 ± 0.04s
LAT = 51.39 N ± 2.44km
LONG = 176.28 W ± 0.82km
DEPTH = 32 km ± 0.54km
STATIONS USED = 26, STAND DEV = 0.81s

SNY	41.3	281	+P	24 06 21.8	0.9		
TIY	50.6	284	eP	24 07 35.7	0.9		
XAN	55.2	283	eP	24 08 07.5	−1.2		
LZH	56.9	288	eP	24 08 20.5	−0.5		
CD2	60.5	284	eP	24 08 45.9	−0.2		
GYA	61.9	278	P	24 08 56.6	1.2		
KMI	65.3	280	eP	24 09 17.5	−0.3		

1986 5 9
O = 01 05 30.2 ± 0.15s
LAT = 51.04 N ± 3.01km
LONG = 176.77 W ± 1.79km
DEPTH = 43 km ± 1.52km
STATIONS USED = 82, STAND DEV = 1.76s
Ms = 5.8 / 22, m_B = 6.0 / 13

MDJ	35.9	281	eP	01 12 27.0	−1.5		
			PP	01 13 51.0	1.2		
			S	01 18 08.5	6.7		
CN2	38.9	283	+iP	01 12 51.5	−2.0		
			PMZ	m_B = 6.0		5.0	1.20
			PP	01 14 23.0	−3.6		
			PPMZ			6.0	0.70
			eS	01 18 41.0	−7.3		
			LN	Ms = 5.9		16.0	10.0
SNY	41.1	281	+iP	01 13 12.0	0.1		
			sP	01 13 29.0	1.1		
			PP	01 14 45.0	−4.9		
			S	01 19 20.0	−0.5		
			LE	Ms = 5.9		24.0	11.8
DL2	44.0	279	+P	01 13 35.0	−0.7		
			eS	01 20 10.0	5.9		
BJI	46.7	284	eP	01 13 57.5	0.4		
			PMZ	m_B = 6.0		5.0	1.09
			ePP	01 15 47.0	0.8		
			eS	01 20 47.0	4.3		
			SMN	m_B = 5.5		9.0	0.56
			SME			9.0	0.35
TIA	48.5	279	eP	01 14 10.0	−1.1		
HHC	49.0	287	+iP	01 14 13.8	−1.5		
			PMZ	m_B = 5.9		4.0	0.63
			eS	01 21 17.0	1.3		
			SME	m_B = 5.5		7.0	0.50
			LE	Ms = 6.2		19.0	16.3
SSE	49.3	271	+iP	01 14 18.5	1.3		
			PMZ	m_B = 5.7		10.0	0.99
			pP	01 14 26.0	−2.4		
			sP	01 14 30.0	−3.1		
			cPP	01 16 12.0	1.3		
			eS	01 21 20.0	0.9		
			sS	01 21 32.5	−5.7		
			ScS	01 24 05.5	4.1		
			eSS	01 24 47.0	1.3		
			LN	Ms = 5.7		18.0	4.09
			LE			18.0	1.52
BTO	50.1	288	−iP	01 14 24.0	0.4		
			PMZ			3.0	2.20
			PP	01 16 19.0	0.2		
			S	01 21 30.0	0.6		
			SMN	m_B = 6.0		5.0	0.70
			SME			5.0	0.80
			LN	Ms = 5.7		17.0	3.90
NJ2	50.1	274	−P	01 14 21.5	−2.1		
			PMZ	m_B = 5.8		6.0	0.70
			S	01 21 30.0	0.5		
			LE	Ms = 5.4		19.0	2.10
TIY	50.4	284	+iP	01 14 26.5	0.4		
			PMZ	m_B = 6.3		4.0	1.41
			pP	01 14 35.0	−2.3		
			PP	01 16 26.5	4.6		
			S	01 21 42.0	8.0		
			sS	01 21 57.0	2.7		
			LN	Ms = 6.0		19.0	7.01
			LE			19.0	4.06
XAN	55.0	283	+P	01 14 59.6	−0.4		
			S	01 22 40.0	4.0		
			sS	01 22 56.0	−0.5		
QZH	55.2	267	eP	01 15 00.0	−1.5		
			S	01 22 45.0	6.0		
			sS	01 23 02.0	2.6		
			LN	Ms = 5.4		20.0	1.84
LZH	56.7	288	+P	01 15 12.5	−0.1		
			pP	01 15 26.5	2.7		
			eS	01 23 00.5	0.0		
			LN	Ms = 6.1		19.0	2.10
			LE			20.0	8.80
GTA	56.9	293	+iP	01 15 12.4	−1.4		
			PMZ	m_B = 6.0		5.0	0.88
			eS	01 23 04.0	1.3		
			sS	01 23 17.5	−4.2		

			LN	Ms=6.1	17.0	8.97
GZH	59.8	270	P	01 15 34.6	0.3		
CD2	60.3	283	+P	01 15 37.0	−0.5		
			S	01 23 47.0	1.3		
WMQ	60.6	304	eP	01 15 36.4	−3.2		
			PcP	01 16 24.0	1.7		
			S	01 23 48.0	−1.6		
			ScS	01 25 27.0	5.2		
			LN	Ms=6.3	22.0	13.8
GYA	61.6	278	+P	01 15 46.0	−0.6		
			S	01 24 08.0	5.2		
			LN	Ms=5.5	20.0	2.10
QZN	65.0	270	+P	01 16 10.0	1.1		
			S	01 24 47.0	1.9		
			LN	Ms=5.9	21.0	4.10
			LE		17.0	1.50
KMI	65.0	280	+P	01 16 08.0	−1.2		
			PMZ	m_B=6.1	4.0	0.90
			eS	01 24 47.0	0.1		
			sS	01 25 09.0	2.9		
			LN	Ms=5.8	25.0	5.30
KSH	69.8	308	+iP	01 16 38.8	0.1		

1986 5 9
O=01 08 09.4 ± 0.09s
LAT=51.38 N ± 3.36km
LONG=177.03 W ± 1.59km
DEPTH= 29 km ± 0.51km
STATIONS USED = 82, STAND DEV= 1.83s
Ms=5.9/31, m_B=6.1/14

MDJ	35.7	281	eP	01 15 06.5	−0.9		
CN2	38.6	282	−iP	01 15 31.5	−0.8		
			PMZ	m_B=6.0	5.0	1.20
			PP	01 17 05.0	0.5		
			PPMZ		6.0	1.30
			eS	01 21 22.0	−4.9		
			LN	Ms=5.9	16.0	9.00
SNY	40.9	281	+iP	01 15 52.0	1.2		
			PMZ	m_B=5.9	12.0	2.48
			sP	01 16 10.0	6.7		
			PP	01 17 26.0	−2.3		
			S	01 22 04.0	4.6		
			SMN		22.0	5.88
			SME		22.0	4.61
			LN	Ms=6.0	21.0	12.1
			LE		21.0	5.08
DL2	43.8	278	+P	01 16 15.0	0.3		
			eS	01 22 46.0	2.7		
BJI	46.5	283	eP	01 16 36.5	0.5		
			PMZ	m_B=6.2	5.0	1.63
			PP	01 18 25.0	0.4		
			eS	01 23 20.0	−1.6		
			SMN	m_B=5.9	9.0	1.40
			SME		12.0	1.07
			LN	Ms=5.8	15.5	5.29
			LE		17.0	2.81
TIA	48.3	279	eP	01 16 50.2	0.0		
			PMZ	m_B=5.9	6.0	0.93
			eS	01 23 47.0	−0.3		
			SMN	m_B=5.8	11.0	0.83
			SME		13.0	1.52
			LN	Ms=5.9	17.0	2.46
			LE		19.0	7.67
HHC	48.8	287	+iP	01 16 53.5	−0.6		
			PMZ		3.0	0.94
			eS	01 23 56.5	2.1		
			SME	m_B=6.1	7.0	1.69
			LE	Ms=6.1	17.0	11.1
SSE	49.1	270	+P	01 16 56.5	−0.2		
			PMZ	m_B=6.6	4.0	3.74
			sP	01 17 01.0	−8.1		
			ePP	01 18 50.0	0.1		
			S	01 23 58.0	0.0		
			sS	01 24 13.0	−0.6		
			LN	Ms=5.5	16.0	0.98
			LE		16.0	2.18
BTO	49.8	288	−iP	01 17 03.0	0.6		
			PMZ	m_B=6.6	4.0	3.10
			PP	01 18 56.0	−1.2		
			S	01 24 07.0	−1.1		
			SMN	m_B=6.2	6.0	1.50
			SME		6.0	1.00
			LN	Ms=6.4	18.0	18.2
			LE		18.0	10.6
NJ2	49.9	273	−P	01 17 02.5	−0.5		
			S	01 24 12.5	3.2		
			LN	Ms=5.9	16.0	5.50
TIY	50.2	283	P	01 17 06.5	1.4		
			PMZ		1.0	0.35
			PP	01 19 06.0	5.4		
			S	01 24 21.5	8.5		
			sS	01 24 37.0	8.3		
			ScS	01 26 45.0	−5.2		
			LN	Ms=6.0	17.5	8.20
WHN	53.8	275	+iP	01 17 30.0	−1.8		
			eS	01 24 56.0	−7.1		
			LN	Ms=6.0	15.0	3.89
			LE		16.0	5.66
XAN	54.7	282	+P	01 17 39.0	−0.1		
			sP	01 17 54.0	2.4		

			eS	01 25 20.0	3.5		
QZH	55.1	267	+iP	01 17 40.5	−0.8		
			pP	01 17 53.0	2.8		
			S	01 25 19.0	−0.3		
			sS	01 25 40.0	4.9		
			LN	Ms=5.7		19.0	3.48
LZH	56.4	287	+iP	01 17 51.0	−0.5		
			sP	01 18 07.0	3.1		
			eS	01 25 41.0	1.5		
GZH	59.7	270	−iP	01 18 14.5	0.4		
			eS	01 26 26.0	4.5		
			LN	Ms=5.6		23.0	3.27
CD2	60.1	283	+iP	01 18 17.0	0.3		
			S	01 26 26.0	0.9		
			LN	Ms=6.1		19.0	8.86
WMQ	60.3	304	+P	01 18 17.5	−0.7		
			PMZ			2.0	0.14
			PcP	01 19 02.5	0.3		
			PcS	01 23 05.4	2.2		
			eS	01 26 24.0	−5.2		
			LE	Ms=6.3		19.0	12.4
GYA	61.4	277	+P	01 18 26.0	−0.1		
			S	01 26 42.0	−0.5		
			LN	Ms=6.1		18.0	4.60
			LE			18.0	5.20
KMI	64.8	279	+P	01 18 49.0	0.4		
QZN	64.9	269	+P	01 18 49.0	0.3		
			S	01 27 28.0	2.4		
			LN	Ms=5.8		16.0	1.90
			LE			15.0	2.10
LSA	68.5	291	iP	01 19 14.0	1.9		
			PMZ			3.0	1.59
			S	01 28 13.0	3.8		
			LN	Ms=5.8		18.0	3.28
KSH	69.4	308	+iP	01 19 18.3	0.7		
			ePP	01 21 50.8	−1.5		
			eS	01 28 22.8	0.8		
			LE	Ms=6.4		16.0	10.1

1986 5 9
O=04 16 46.5 ± 0.12s
LAT=39.59 N ± 2.46km
LONG= 77.67 E ± 1.74km
DEPTH= 10 km ± 0.10km
STATIONS USED = 7, STAND DEV= 2.75s

			M_L=3.7/ 5,				
KSH	1.3	265	+Pn	04 17 09.9	−1.5		
			Sn	04 17 28.0	−2.6		
			SMN	M_L=3.7		0.2	0.70
			SME			0.7	1.60
WMQ	8.6	57	eP	04 18 56.5	2.1		
			LE			1.5	0.041

1986 5 9
O=06 04 52.8 ± 0.07s
LAT=51.43 N ± 2.50km
LONG=174.27 W ± 1.11km
DEPTH= 31 km ± 0.91km
STATIONS USED = 48, STAND DEV= 1.74s

MDJ	37.4	282	eP	06 12 04.0	−0.7
CN2	40.3	284	+P	06 12 28.4	−1.0
SNY	42.6	282	−iP	06 12 48.7	0.9
BJI	48.1	285	eP	06 13 32.0	−0.3
TIA	50.0	280	eP	06 13 46.3	−0.2
HHC	50.4	289	+P	06 13 49.6	−0.2
BTO	51.5	289	eP	06 13 58.0	0.1
TIY	51.9	285	−P	06 14 01.0	0.1
XAN	56.4	284	+P	06 14 34.1	−0.3
LZH	58.1	289	eP	06 14 45.5	−0.7
GTA	58.2	295	P	06 14 45.8	−1.0
WMQ	61.7	305	P	06 15 10.0	−0.8
CD2	61.7	285	eP	06 15 11.3	0.2
GYA	63.1	279	P	06 15 21.2	0.6
KMI	66.5	281	eP	06 15 42.5	−0.1
QZN	66.6	271	eP	06 15 46.0	3.1

1986 5 9
O=09 13 24.2 ± 0.12s
LAT=51.47 N ± 3.72km
LONG=173.58 W ± 1.79km
DEPTH= 31 km ± 1.43km
STATIONS USED = 51, STAND DEV= 1.91s

MDJ	37.8	283	eP	09 20 38.5	−1.1
CN2	40.7	284	eP	09 21 04.0	−0.2
SNY	43.0	283	eP	09 21 23.3	0.7
BJI	48.5	285	eP	09 22 08.0	1.2
TIA	50.4	281	eP	09 22 21.6	0.5
SSE	51.3	273	eP	09 22 24.5	−3.2
			esP	09 22 39.0	−1.6
BTO	51.9	290	eP	09 22 33.3	1.0
NJ2	52.1	276	eP	09 22 34.0	0.2
			LE		0.8 0.020
WHN	55.9	278	eP	09 23 02.5	0.5
XAN	56.8	284	−P	09 23 08.6	−0.2
LZH	58.5	290	+P	09 23 20.5	0.1
GTA	58.5	295	+P	09 23 20.0	−0.8
WMQ	62.0	306	eP	09 23 43.8	−0.6
CD2	62.1	285	eP	09 23 46.3	1.0
GYA	63.5	280	P	09 23 55.0	0.2
KMI	66.9	282	eP	09 24 17.0	0.3

QZN	67.0	272	eP	09 24 19.6	2.6	

1986 5 9
O = 09 41 30.7 ± 0.14s
LAT = 51.61 N ± 1.08km
LONG = 175.61 W ± 0.70km
DEPTH = 29 km ± 1.25km
STATIONS USED = 17, STAND DEV = 1.27s

SNY	41.7	281	−iP	09 49 20.2	1.2	
BJI	47.3	284	eP	09 50 04.0	0.3	
XAN	55.6	283	−P	09 51 05.8	−0.6	
CD2	60.9	284	eP	09 51 43.7	0.1	

1986 5 9
O = 10 43 32.9 ± 0.09s
LAT = 36.28 N ± 0.95km
LONG = 110.37 E ± 0.84km
DEPTH = 14 km ± 0.20km
STATIONS USED = 17, STAND DEV = 1.96s
M_L = 3.7 / 10,

TIY	2.2	49	Pn	10 44 08.4	−1.0		
			Pg	10 44 12.3	0.8		
			Sn	10 44 41.2	3.2		
			SMN	M_L = 3.8		0.3	0.60
			SME			0.3	0.70
XAN	2.5	208	+Pn	10 44 13.2	−1.0		
			Pg	10 44 18.2	0.5		
			Sg	10 44 49.8	−2.6		
BTO	4.3	356	Pn	10 44 40.4	1.7		
			Pg	10 44 48.0	−1.1		
			Sn	10 45 27.6	−3.2		
			Sg	10 45 43.0	−5.1		
			SMN	M_L = 3.4		0.3	0.070
			SME			0.3	0.070
HHC	4.7	11	Pg	10 44 53.6	−1.7		
			Sn	10 45 42.4	3.3		
			SMN	M_L = 3.6		0.6	0.15
			SME			0.6	0.036
LZH	5.3	270	ePg	10 45 06.5	0.1		
			S*	10 46 07.5	1.2		
			Sg	10 46 12.0	−6.3		
TIA	5.5	89	ePg	10 45 11.3	1.9		
			eSg	10 46 20.4	−3.6		
			SMN	M_L = 2.9		1.0	0.010
			SME			0.8	0.014
BJI	5.9	49	ePg	10 45 21.0	3.6		
			eSg	10 46 36.0	−2.2		
			SMN	M_L = 3.5		0.5	0.045
			SME			0.5	0.032
CD2	7.7	228	ePg	10 46 01.3	12.7		
			S*	10 47 19.6	4.7		
			SMN	M_L = 4.3		1.0	0.10
			SME			0.8	0.10
GTA	8.9	294	eP	10 45 45.5	0.8		
			S	10 47 16.8	−8.7		

1986 5 9
O = 11 00 58.2 ± 0.13s
LAT = 36.40 N ± 1.13km
LONG = 110.20 E ± 1.34km
DEPTH = 17 km ± 0.31km
STATIONS USED = 9, STAND DEV = 4.16s
M_L = 3.1 / 5,

TIY	2.2	53	+iPg	11 01 35.8	−1.7		
XAN	2.6	204	Pn	11 01 37.0	−2.8		
			Pg	11 01 41.2	−2.6		
			Sg	11 02 12.8	−6.3		
CD2	7.7	226	Pn	11 02 50.0	0.2		
			Sg	11 04 53.4	−5.1		
			SMN	M_L = 3.5		0.8	0.010
			SME			0.8	0.020

1986 5 9
O = 13 54 45.1 ± 0.27s
LAT = 51.34 N ± 2.02km
LONG = 176.13 W ± 1.52km
DEPTH = 44 km ± 2.37km
STATIONS USED = 46, STAND DEV = 1.70s

SNY	41.4	281	P	14 02 29.5	0.1		
BJI	47.0	284	eP	14 03 14.5	0.1		
TIA	48.8	279	eP	14 03 27.6	−0.9		
BTO	50.4	288	eP	14 03 40.0	−0.6		
NJ2	50.5	274	eP	14 03 41.0	−0.2		
TIY	50.7	284	−iP	14 03 43.6	0.3		
			PMZ			1.4	0.080
XAN	55.3	283	+iP	14 04 15.8	−1.4		
LZH	57.0	288	eP	14 04 28.5	−0.9		
GTA	57.1	293	P	14 04 28.5	−1.8		
GYA	62.0	278	eP	14 05 02.6	−1.2		
KMI	65.4	280	eP	14 05 25.0	−1.2		

1986 5 9
O = 14 09 05.6 ± 0.03s
LAT = 36.22 N ± 0.31km
LONG = 110.20 E ± 0.27km
DEPTH = 6 km ± 0.12km
STATIONS USED = 6, STAND DEV = 1.27s
M_L = 2.9 / 5,

TIY	2.3	50	ePg	14 09 45.4	−1.4		
			Sn	14 10 14.6	−0.9		

			SMN	$M_L=3.0$		0.3	0.080
			SME			0.3	0.10
XAN	2.4	206	Pn	14 09 46.3	0.2		
			Pg	14 09 52.0	3.7		
			Sg	14 10 23.3	1.9		
			SMN	$M_L=2.8$		0.4	0.062
			SME			0.4	0.062

1986 5 9
O=14 39 12.3 ± 0.20s
LAT=51.09 N ± 2.52km
LONG=176.62 W ± 1.70km
DEPTH= 28 km ± 1.87km
STATIONS USED = 21, STAND DEV= 2.31s

SNY	41.2	281	eP	14 46 57.0	0.5
BJI	46.8	284	eP	14 47 43.0	1.4
TIY	50.5	284	P	14 48 12.6	1.9
XAN	55.1	283	eP	14 48 43.2	−1.4
GTA	56.9	293	+iP	14 48 57.2	−1.0
GYA	61.7	278	+P	14 49 30.2	−1.0

1986 5 9
O=15 25 52.1 ± 0.16s
LAT=51.01 N ± 1.82km
LONG=176.26 W ± 1.24km
DEPTH= 41 km ± 1.57km
STATIONS USED = 34, STAND DEV= 1.38s

CN2	39.2	283	eP	15 33 18.0	−0.3
SNY	41.4	281	eP	15 33 32.0	−4.7
BJI	47.0	284	eP	15 34 23.0	1.2
TIA	48.8	279	eP	15 34 34.6	−1.1
HHC	49.3	288	eP	15 34 40.2	0.3
BTO	50.4	288	eP	15 34 49.0	0.8
TIY	50.7	284	eP	15 34 51.8	1.0
LZH	57.0	288	+P	15 35 36.5	−0.5
GTA	57.2	294	+P	15 35 37.4	−0.8
CD2	60.6	284	eP	15 36 02.3	0.4
GYA	62.0	278	P	15 36 10.6	−0.3
KMI	65.4	280	eP	15 36 33.5	0.1

1986 5 9
O=16 23 50.3 ± 0.36s
LAT=16.97 S ± 4.77km
LONG= 65.47 W ± 4.29km
DEPTH= 18 km ± 1.83km
STATIONS USED = 74, STAND DEV= 2.10s
Ms=5.8/18, m_B=6.1/ 6

KSH	139.7	48	ePKP	16 43 24.0	5.4		
			ePP	16 46 20.0	3.2		
			LE	Ms=6.5		27.0	6.97
WMQ	144.9	35	+PKP	16 43 27.0	−0.6		
			PKP_2	16 43 32.0			
			PP	16 46 49.0	1.1		
MDJ	149.7	338	ePKP	16 43 37.0	1.7		
CN2	151.7	343	+PKP	16 43 36.0	−2.4		
			PP	16 47 32.0	5.2		
			LN	Ms=5.9		24.0	1.70
SNY	154.0	344	+iPKP	16 43 41.0	−0.7		
GTA	154.2	27	PKP	16 43 42.0	−0.1		
			PP	16 47 48.0	6.4		
LSA	155.1	55	+PKP	16 43 43.6	0.0		
HHC	156.1	6	PKP	16 43 43.0	−1.5		
			PP	16 47 49.0	−2.8		
			LN	Ms=5.8		18.0	0.69
			LE			18.0	0.68
BTO	156.1	9	PKP	16 43 44.0	−0.6		
			PKP_2	16 44 13.0			
			PP	16 47 53.0	0.9		
BJI	157.0	357	ePKP	16 43 47.0	1.4		
			$ePKP_2$	16 44 15.0			
			PP	16 47 50.0	−6.2		
			LN	Ms=5.7		24.0	0.64
			LE			24.0	0.83
DL2	157.3	346	+PKP	16 43 46.0	0.0		
			PKP_2	16 44 17.0			
			PP	16 47 50.0	−8.0		
LZH	158.7	24	ePKP	16 43 48.5	0.4		
			$ePKP_2$	16 44 24.5			
			ePP	16 48 01.5	−4.5		
			LN	Ms=5.6		36.0	1.30
TIY	159.3	5	+PKP	16 43 49.0	0.4		
			PKP_2	16 44 27.5			
			PP	16 48 03.5	−5.2		
			LN	Ms=5.8		18.0	1.09
TIA	160.7	354	ePKP	16 43 47.6	−2.4		
XAN	162.3	15	+PKP	16 43 51.8	0.2		
			PKP_2	16 44 39.7			
			PP	16 48 22.0	−2.8		
			LN	Ms=6.1		22.0	2.39
CD2	163.0	33	PKP1	16 43 53.0	0.6		
			PKP_2	16 44 43.0			
			PP	16 48 31.0	2.6		
			LN	Ms=5.7		24.0	1.10
NJ2	164.5	346	+PKP	16 43 54.5	0.7		
			PKP_2	16 44 49.0			
			PP	16 48 31.5	−5.4		
			LE	Ms=5.8		20.0	1.20
SSE	164.7	338	+PKP	16 43 54.0	0.0		
			sPKP	16 44 08.0			
			PKP_2	16 44 48.0			

			PP	16 48 34.0	−3.8		
			LN	Ms=6.0		20.0	1.50
			LE			20.0	1.44
KMI	166.3	52	+PKP	16 43 55.0	−0.7		
			PKP_2	16 44 58.0			
			PP	16 48 46.0	−0.1		
			SKKS	16 55 27.0			
WHN	166.5	1	cPKP	16 43 55.5	−0.1		
			$cPKP_2$	16 44 57.0			
			PP	16 48 42.0	−4.8		
			PPMZ	m_B=6.0		6.0	0.94
			LN	Ms=5.9		20.0	1.61
GYA	168.1	36	+PKP	16 43 57.0	0.3		
			PKP_2	16 45 05.0			
			PP	16 48 54.0	−0.7		
			SKS	16 50 53.0	−2.4		
			LE	Ms=5.6		20.0	0.70
QZH	171.2	335	cPKP	16 44 00.0	1.6		
			PKP_2	16 45 18.0			
			PP	16 49 07.0	−3.4		
			SS	17 10 04.0	−7.0		
			LN	Ms=5.5		18.0	0.67
GZH	173.8	10	PKP	16 44 00.0	0.4		
			$cPKP_2$	16 45 30.0			
			PP	16 49 21.0	−2.5		
			PPMZ	m_B=6.3		5.0	1.47
QZN	175.1	65	PKP	16 44 00.0	−0.1		
			PKP_2	16 45 38.5			
			PP	16 49 30.5	0.6		
			SKS	16 50 56.0	−2.1		
			LE	Ms=5.7		19.0	1.60

1986 5 9
O=19 04 27.8 ± 0.09s
LAT=51.79 N ± 3.02km
LONG=174.34 W ± 1.20km
DEPTH= 31 km ± 0.17km
STATIONS USED = 88, STAND DEV= 0.93s
Ms=5.9 / 39, m_B=6.0 / 33

MDJ	37.2	282	−P	19 11 38.8	0.0		
			PP	19 13 06.5	0.5		
			S	19 17 24.0	1.2		
			sS	19 17 32.0	−6.4		
			SS	19 19 54.0	−0.6		
CN2	40.2	283	+iP	19 12 02.6	−0.8		
			PMZ	m_B=6.3		4.0	1.90
			pP	19 12 12.8	0.5		
			PP	19 13 38.0	−2.0		
			cS	19 18 04.0	−4.4		
			LN	Ms=6.1		19.0	17.0
SNY	42.4	282	+iP	19 12 22.7	0.7		
			pP	19 12 32.0	1.1		
			S	19 18 34.0	−6.8		
			LN	Ms=6.0		20.0	12.0
			LE			21.0	5.08
DL2	45.4	280	+P	19 12 46.0	0.2		
			PMZ	m_B=5.9		6.0	1.16
			sP	19 13 00.0	1.5		
			cS	19 19 25.0	0.6		
			sS	19 19 43.0	3.7		
			LN	Ms=5.7		15.0	3.52
			LE			15.0	2.16
BJI	48.0	285	+P	19 13 06.5	0.2		
			PMZ	m_B=6.2		5.0	1.63
			esP	19 13 20.0	0.9		
			cPP	19 14 59.0	1.9		
			eS	19 20 00.0	−1.6		
			SMN	m_B=5.6		8.0	0.39
			SME			10.0	0.60
			esS	19 20 18.0	1.5		
			ScS	19 22 50.0	−3.6		
			LN	Ms=6.1		20.0	12.7
			LE			20.0	5.53
TIA	49.9	280	eP	19 13 20.5	−0.2		
			PMZ	m_B=6.1		6.0	1.59
			eS	19 20 24.0	−3.7		
			SMN	m_B=5.9		9.0	0.90
			SME			11.0	1.47
			LN	Ms=5.7		20.0	1.98
			LE			20.0	4.99
HHC	50.2	288	+iP	19 13 22.0	−1.7		
			PMZ	m_B=5.9		4.0	0.66
			S	19 20 34.0	2.2		
			SMN	m_B=5.7		10.0	1.10
			sS	19 20 50.0	2.2		
			PS	19 20 47.0			
			LN	Ms=5.9		16.0	5.15
			LE			12.0	3.26
SSE	50.8	272	+iP	19 13 28.0	0.3		
			PMZ	m_B=6.5		4.0	2.34
			pP	19 13 38.0	1.3		
			sP	19 13 42.0	1.6		
			cPcP	19 14 46.0	2.0		
			cPP	19 15 26.0	2.0		
			iS	19 20 40.0	−0.3		
			SME	m_B=5.9		12.0	2.11
			sS	19 20 56.0	0.7		
			eScS	19 23 15.0	2.7		
			eSS	19 24 13.0	1.5		
			LN	Ms=5.6		18.0	2.05

			LE			18.0	2.29
BTO	51.3	289	−iP	19 13 32.0	0.2		
			PMZ	$m_B = 6.3$		5.0	2.00
			sP	19 13 46.0	1.6		
			cPP	19 15 30.0	1.3		
			eS	19 20 48.0	0.2		
			LN	Ms = 6.1		17.0	4.90
			LE			18.0	7.70
NJ2	51.6	275	+iP	19 13 33.0	−0.7		
			PMZ	$m_B = 6.2$		5.0	1.70
			sP	19 13 49.0	2.5		
			S	19 20 54.0	3.8		
			SMN	$m_B = 5.9$		8.0	1.10
			SME			8.0	0.80
			LE	Ms = 5.7		20.0	4.20
TIY	51.7	285	+iP	19 13 35.5	0.5		
			PMZ			1.5	0.43
WHN	55.4	277	cP	19 14 01.5	−0.5		
			PMZ	$m_B = 6.3$		5.0	2.06
			sP	19 14 15.0	0.1		
			S	19 21 46.0	4.0		
			SME	$m_B = 5.9$		6.0	1.01
			sS	19 22 04.0	5.8		
			LN	Ms = 5.8		18.0	2.94
			LE			18.0	3.29
XAN	56.3	284	+iP	19 14 08.0	−0.6		
			PMZ	$m_B = 6.2$		5.0	1.47
			PP	19 16 14.0	−0.7		
			S	19 21 57.5	3.4		
			sS	19 22 14.5	4.3		
			LE	Ms = 6.0		19.0	6.93
QZH	56.7	269	+iP	19 14 10.5	−1.2		
			sP	19 14 26.0	1.4		
			PP	19 16 25.0	6.2		
			iS	19 22 05.0	3.8		
			LN	Ms = 5.4		19.0	1.74
LZH	57.9	289	+P	19 14 20.0	−0.2		
			PMZ	$m_B = 6.3$		5.0	1.85
			sP	19 14 35.0	2.1		
			eS	19 22 21.0	4.1		
			LN	Ms = 6.0		17.0	6.90
GTA	58.0	294	eP	19 14 19.0	−1.6		
			PMZ	$m_B = 6.0$		5.0	1.00
			S	19 22 18.0	1.9		
			LN	Ms = 6.0		16.0	6.40
GZH	61.4	272	+P	19 14 43.0	−0.7		
			PMZ	$m_B = 6.2$		5.0	1.47
			S	19 23 06.0	6.1		
			PS	19 23 23.0			
			LE	Ms = 5.7		16.0	2.96
WMQ	61.4	305	+P	19 14 44.0	−0.3		
			pP	19 14 53.5	0.3		
			cS	19 22 58.0	−4.1		
			ScS	19 24 33.0	4.3		
			LN	Ms = 6.3		20.0	14.1
CD2	61.6	285	+iP	19 14 45.0	−0.4		
			sP	19 15 00.0	1.8		
			S	19 23 00.5	−2.3		
			sS	19 23 22.0	2.9		
			LE	Ms = 6.0		17.0	6.25
GYA	63.0	279	+P	19 14 54.0	−1.1		
			PMZ			20.0	0.70
			sP	19 15 09.0	1.2		
			PP	19 17 12.0	−2.3		
			S	19 23 24.0	3.2		
			sS	19 23 40.0	2.8		
			ScS	19 24 40.0	−0.7		
			LN	Ms = 5.9		18.0	1.30
			LE			18.0	4.20
KMI	66.4	281	+P	19 15 17.0	0.0		
			PMZ	$m_B = 6.2$		5.0	1.50
			sP	19 15 29.5	−0.2		
			S	19 24 08.0	5.6		
			SMN	$m_B = 6.0$		6.0	1.00
			sS	19 24 25.0	6.2		
			LN	Ms = 5.8		23.0	4.20
QZN	66.5	271	+iP	19 15 18.5	0.8		
			S	19 24 06.0	1.9		
			sS	19 24 27.0	6.4		
			eSS	19 28 25.0	1.8		
			LN	Ms = 5.8		20.0	2.50
			LE			19.0	2.80
LSA	69.9	293	+P	19 15 40.0	1.0		
			ipP	19 15 50.5	2.9		
			S	19 24 52.5	8.5		
			sS	19 25 07.0	6.4		
			ScS	19 25 40.0	6.3		
			LN	Ms = 5.6		18.0	2.19
KSH	70.5	309	+iP	19 15 45.0	2.7		
			sP	19 16 00.0	4.9		
			ScS	19 25 48.0	9.6		
			LE	Ms = 6.4		18.0	12.3

1986 5 9

O = 19 11 50.8 ± 0.16s

LAT = 24.57 N ± 1.74km

LONG = 123.05 E ± 0.47km

DEPTH = 12 km , ± 2.51km

STATIONS USED = 11, STAND DEV = 4.18s

M_L = 3.0 / 5,

QZH	4.1	276	cPn	19 12 51.0	−2.1		
			Sn	19 13 40.0	−2.7		
			SMN	M_L = 3.4		1.4	0.080
			SME			1.4	0.060

1986 5 9
O = 19 24 40.7 ± 0.08s
LAT = 51.63 N ± 4.10km
LONG = 174.12 W ± 1.69km
DEPTH = 28 km ± 0.96km
STATIONS USED = 76, STAND DEV = 1.73s
Ms = 5.3 / 2,

MDJ	37.4	282	−P	19 31 53.0	−0.5		
CN2	40.4	283	eP	19 32 17.0	−1.1		
SNY	42.6	282	+P	19 32 37.4	0.9		
DL2	45.5	280	eP	19 33 00.8	0.5		
BJI	48.2	285	eP	19 33 21.0	0.1		
TIA	50.0	280	eP	19 33 35.1	−0.1		
HHC	50.4	289	P	19 33 36.8	−1.5		
SSE	50.9	272	eP	19 33 41.5	−0.5		
			epP	19 33 51.5	1.0		
			esP	19 33 56.0	1.8		
BTO	51.5	289	P	19 33 47.0	0.6		
NJ2	51.7	275	−P	19 33 48.0	0.0		
TIY	51.9	285	+P	19 33 50.2	0.7		
			PMZ			1.0	0.060
WHN	55.5	277	eP	19 34 15.2	−1.1		
XAN	56.5	284	+P	19 34 22.4	−0.6		
QZH	56.9	269	eP	19 34 25.5	−0.4		
LZH	58.1	289	+P	19 34 35.0	0.3		
GTA	58.2	295	+iP	19 34 33.9	−1.2		
GZH	61.5	272	eP	19 34 57.3	−0.6		
WMQ	61.6	305	+P	19 34 59.0	0.1		
CD2	61.8	285	eP	19 35 00.4	0.7		
GYA	63.2	279	P	19 35 09.0	−0.3		
			S	19 43 32.0	−4.3		
KMI	66.6	281	+P	19 35 31.5	0.2		
QZN	66.7	271	P	19 35 34.8	3.0		
LSA	70.1	293	eP	19 35 53.7	0.3		
KSH	70.7	310	eP	19 36 00.0	3.2		

1986 5 9
O = 19 59 24.6 ± 0.18s
LAT = 7.69 N ± 1.95km
LONG = 36.48 W ± 1.71km
DEPTH = 19 km ± 0.77km
STATIONS USED = 10, STAND DEV = 1.46s

1986 5 9
O = 20 32 07.5 ± 0.05s
LAT = 51.45 N ± 3.16km
LONG = 176.62 W ± 1.27km
DEPTH = 15 km ± 1.15km
STATIONS USED = 14, STAND DEV = 1.02s

BJI	46.7	283	eP	20 40 38.5	0.4
TIY	50.4	283	eP	20 41 08.8	1.6
XAN	55.0	282	eP	20 41 39.6	−1.6
GTA	56.8	293	eP	20 41 53.7	−0.7
CD2	60.3	283	eP	20 42 19.3	0.7

1986 5 9
O = 20 42 36.7 ± 0.15s
LAT = 51.15 N ± 2.47km
LONG = 176.26 W ± 1.29km
DEPTH = 37 km ± 1.32km
STATIONS USED = 75, STAND DEV = 1.31s
Ms = 4.6 / 1,

MDJ	36.2	281	eP	20 49 37.0	−1.2		
CN2	39.2	283	+P	20 50 02.0	−1.0		
SNY	41.4	281	−iP	20 50 22.3	0.8		
DL2	44.3	279	eP	20 50 44.2	−1.0		
BJI	47.0	284	eP	20 51 07.0	0.5		
TIA	48.8	279	eP	20 51 20.4	−0.2		
HHC	49.3	288	+P	20 51 23.5	−1.1		
SSE	49.6	271	+P	20 51 28.0	1.2		
			PMZ			1.0	0.0090
			esP	20 51 39.5	−1.7		
BTO	50.4	288	−iP	20 51 34.0	1.1		
			S	20 58 45.0	4.0		
NJ2	50.4	274	−P	20 51 33.0	−0.1		
			eS	20 58 40.0	−2.8		
WHN	54.3	276	eP	20 52 00.6	−1.3		
XAN	55.3	283	eP	20 52 08.4	−0.9		
QZH	55.5	268	−iP	20 52 11.0	−0.1		
LZH	57.0	288	+iP	20 52 21.5	−0.2		
GTA	57.1	293	+P	20 52 21.7	−1.1		
GZH	60.2	270	eP	20 52 43.9	0.2		
CD2	60.6	284	eP	20 52 46.2	−0.4		
			S	21 01 03.0	5.7		
WMQ	60.8	304	+P	20 52 47.0	−1.1		
GYA	61.9	278	P	20 52 55.0	−0.8		
			S	21 01 18.0	3.5		
QZN	65.4	270	P	20 53 19.0	0.9		
			eS	21 02 00.0	1.7		
LSA	69.0	291	eP	20 53 42.3	0.6		
KSH	70.0	308	eP	20 53 45.9	−1.2		

1986 5 9
O = 21 52 07.3 ± 0.08s
LAT = 51.26 N ± 1.99km

LONG = 175.52 W ± 1.15km
DEPTH = 28 km ± 0.82km
STATIONS USED = 77, STAND DEV = 0.99s

MDJ	36.6	282	eP	21 59 12.7	−0.9
CN2	39.6	283	−P	21 59 39.5	1.1
SNY	41.8	282	eP	21 59 57.0	0.2
DL2	44.7	279	eP	22 00 21.2	0.7
BJI	47.4	284	eP	22 00 42.5	0.9
TIA	49.2	280	eP	22 00 54.8	−0.9
HHC	49.7	288	+iP	22 00 59.0	−0.5
SSE	50.1	272	P	22 01 03.0	0.8
			esP	22 01 17.0	2.8
BTO	50.8	289	+iP	22 01 08.5	0.7
			eS	22 08 19.0	−1.7
NJ2	50.9	274	+P	22 01 08.0	−0.4
			eS	22 08 20.0	−1.9
TIY	51.1	284	P	22 01 11.5	1.0
			S	22 08 31.5	7.1
WHN	54.7	276	eP	22 01 36.0	−1.0
XAN	55.7	283	eP	22 01 43.2	−1.0
LZH	57.4	288	−P	22 01 57.0	0.6
GTA	57.5	294	−P	22 01 56.3	−1.0
GZH	60.6	271	P	22 02 19.3	0.6
CD2	61.0	284	eP	22 02 21.5	0.1
WMQ	61.1	305	−P	22 02 21.2	−1.0
GYA	62.4	279	P	22 02 30.0	−0.6
KMI	65.8	280	−P	22 02 53.0	0.1
QZN	65.8	271	eP	22 02 53.6	0.6
LSA	69.4	292	eP	22 03 16.2	0.2
KSH	70.2	309	eP	22 03 23.8	3.0

1986 5 9
O = 23 02 26.2 ± 0.11s
LAT = 21.55 N ± 2.06km
LONG = 94.38 E ± 1.59km
DEPTH = 99 km ± 0.81km
STATIONS USED = 67, STAND DEV = 2.40s
M_L = 4.7 / 1,

KMI	8.5	64	+iP	23 04 32.0	4.0	
			S	23 06 11.0	8.9	
			LN		8.0	1.60
LSA	8.6	341	−P	23 04 28.7	−1.7	
			eP	23 04 28.7	−1.1	
			S	23 06 15.0	9.0	
			LN		3.0	0.70
GYA	12.2	64	P	23 05 20.2	1.6	
			S	23 07 36.0	3.2	
CD2	12.6	40	eP	23 05 22.6	0.0	
			eS	23 07 34.0	−6.7	
QZN	14.7	97	eP	23 05 52.5	1.8	
			eS	23 08 34.0	2.2	
LZH	16.7	28	+P	23 06 16.5	1.1	
GZH	17.6	81	P	23 06 28.0	1.2	
XAN	17.9	43	+iP	23 06 28.4	−1.6	
GTA	18.4	13	P	23 06 34.5	−1.7	
			PcP	23 11 04.0	1.4	
			ScP	23 14 29.8	2.3	
			PcS	23 14 39.7	1.8	
			ScS	23 18 10.0	2.8	
WHN	20.0	59	eP	23 06 52.0	−1.7	
			pP	23 07 06.0	−6.5	
			eS	23 10 24.0	−4.6	
			LN		8.0	0.35
TIY	22.4	40	eP	23 07 16.8	−0.9	
			LN		11.0	0.13
WMQ	22.9	347	eP	23 07 24.0	1.7	
			pP	23 07 46.5	3.3	
			SME		1.5	0.12
BTO	23.2	31	eP	23 07 24.0	−1.0	
KSH	23.8	323	P	23 07 37.0	6.0	
HHC	24.1	33	+P	23 07 33.8	−0.4	
NJ2	24.2	59	−P	23 07 35.3	0.9	
TIA	24.6	49	eP	23 07 38.0	−0.8	
SSE	25.8	63	eP	23 07 49.0	−0.8	
			epP	23 08 10.0	−1.2	
BJI	26.2	40	eP	23 07 53.5	0.3	
SNY	31.8	44	P	23 08 41.4	−2.2	

1986 5 10
O = 00 09 45.9 ± 0.08s
LAT = 10.08 N ± 1.75km
LONG = 125.65 E ± 1.85km
DEPTH = 31 km ± 0.43km
STATIONS USED = 33, STAND DEV = 1.27s

GZH	17.5	319	eP	00 13 52.0	2.8
QZN	17.7	302	eP	00 14 02.3	11.0
NJ2	22.8	345	eP	00 14 48.0	1.1
WHN	22.9	334	eP	00 14 50.0	1.4
GYA	24.2	315	P	00 15 13.2	12.2
XAN	28.4	330	+P	00 15 38.1	−1.6
BJI	31.0	346	eP	00 16 02.5	−0.7
SNY	31.7	357	eP	00 16 09.0	−0.2
HHC	33.1	340	P	00 16 19.6	−2.0
BTO	33.4	338	eP	00 16 23.0	−1.3
GTA	37.2	326	P	00 16 55.0	−1.7
LSA	37.6	306	P	00 17 00.5	−0.3
WMQ	47.0	323	eP	00 18 15.0	−1.6

1986 5 10
O = 01 33 46.7 ± 0.18s

LAT=51.68 N ± 4.93km
LONG=174.72 W ± 2.03km
DEPTH= 20 km ± 2.22km
STATIONS USED = 38, STAND DEV= 2.11s
Ms=5.0/ 2,

MDJ	37.0	282	eP	01 40 56.0	−1.5
CN2	40.0	283	eP	01 41 22.0	−0.2
SNY	42.2	282	−iP	01 41 42.0	1.4
BJI	47.8	284	eP	01 42 26.0	0.8
NJ2	51.3	275	eP	01 42 52.5	0.1
XAN	56.1	283	eP	01 43 26.8	−0.8
GTA	57.8	294	+P	01 43 38.5	−1.3
WMQ	61.3	305	eP	01 44 02.5	−1.3
GYA	62.8	279	P	01 44 14.0	−0.1
QZN	66.3	271	eP	01 44 37.0	0.3

1986 5 10
O=09 12 11.5 ± 0.18s
LAT=51.12 N ± 2.27km
LONG=175.91 W ± 1.22km
DEPTH= 50 km ± 1.62km
STATIONS USED = 35, STAND DEV= 2.01s

SNY	41.6	282	P	09 19 57.0	0.3
BJI	47.2	284	eP	09 20 41.0	−0.7
HHC	49.5	288	P	09 20 57.4	−2.3
BTO	50.6	289	eP	09 21 08.0	0.1
XAN	55.5	283	P	09 21 43.1	−1.2
CD2	60.8	284	eP	09 22 21.3	−0.2
GYA	62.2	278	P	09 22 29.8	−0.9
KMI	65.6	280	eP	09 22 50.5	−2.5

1986 5 10
O=09 13 32.7 ± 0.14s
LAT=51.94 N ± 1.02km
LONG=175.24 W ± 1.15km
DEPTH= 68 km ± 1.50km
STATIONS USED = 43, STAND DEV= 1.35s
Ms=5.0/ 2,

CN2	39.6	282	eP	09 20 58.6	−0.9		
SNY	41.9	281	+iP	09 21 19.6	1.5		
BJI	47.4	284	eP	09 22 03.0	0.4		
SSE	50.2	271	−P	09 22 25.0	0.8		
			PMZ			0.8	0.044
			LN	Ms=5.0		22.0	0.93
			LE			20.0	0.58
BTO	50.7	288	eP	09 22 29.0	0.8		
NJ2	51.0	274	+P	09 22 29.7	−0.5		
			S	09 29 45.0	5.0		
			LE	Ms=5.0		16.0	0.70
WHN	54.8	276	eP	09 22 58.0	−0.5		
GTA	57.4	294	P	09 23 15.4	−1.8		
GZH	60.8	271	eP	09 23 41.0	0.5		
WMQ	60.9	305	eP	09 23 41.0	−0.2		
GYA	62.5	278	+P	09 23 52.0	0.2		
KMI	65.8	280	eP	09 24 14.5	0.6		
QZN	66.0	270	eP	09 24 15.8	1.1		

1986 5 10
O=11 13 37.0 ± 0.17s
LAT=51.07 N ± 2.58km
LONG=174.71 W ± 1.87km
DEPTH= 41 km ± 1.91km
STATIONS USED = 27, STAND DEV= 1.84s

MDJ	37.2	282	eP	11 20 42.8	−3.5
CN2	40.1	284	eP	11 21 09.8	−1.2
SNY	42.4	282	−iP	11 21 31.0	1.6
BJI	47.9	285	eP	11 22 14.5	0.5
TIY	51.7	285	eP	11 22 43.5	0.8
XAN	56.2	284	eP	11 23 15.2	−1.0
WMQ	61.6	305	eP	11 23 48.0	−5.8
GYA	62.9	279	P	11 24 03.2	0.9

1986 5 10
O=12 02 01.6 ± 0.22s
LAT=36.99 S ± 5.54km
LONG= 94.11 W ± 4.28km
DEPTH= 11 km ± 1.07km
STATIONS USED = 56, STAND DEV= 2.53s

MDJ	146.4	297	+PKP	12 21 42.5	0.0
CN2	149.3	295	+PKP	12 21 46.5	−0.8
SSE	150.3	269	−PKP	12 21 53.0	4.3
			$ePKP_2$	12 22 07.0	
SNY	150.6	291	ePKP	12 21 52.4	3.1
DL2	151.9	285	ePKP	12 21 50.7	−0.4
QZN	152.4	236	ePKP	12 21 53.0	1.0
			ePP	12 25 47.5	4.3
NJ2	152.5	270	−PKP	12 21 58.0	6.0
WHN	155.5	263	ePKP	12 21 55.0	−1.1
BJI	156.2	287	ePKP	12 21 56.0	−1.0
			PKP_2	12 22 24.5	
			PP	12 26 03.0	−1.7
GYA	159.5	245	PKP	12 22 01.0	−0.4
			PKP_2	12 22 40.4	
			PP	12 26 24.0	1.8
XAN	161.0	268	ePKP	12 22 01.9	−1.0
			PKP_2	12 22 45.8	
KMI	161.4	235	ePKP	12 22 03.0	−0.4
CD2	164.0	253	ePKP	12 22 06.0	0.2
LZH	165.5	272	ePKP	12 22 06.5	−1.0
KSH	171.8	69	ePKP	12 22 12.9	1.4

WMQ	173.0	349	PKP	12 22 11.5	−0.5		
			PKP_2	12 23 40.0			

1986 5 10
O = 12 47 39.4 ± 0.19s
LAT = 44.04 N ± 2.69km
LONG = 78.26 E ± 2.12km
DEPTH = 0 km ± 0.98km
STATIONS USED = 24, STAND DEV = 3.77s
M_L = 4.6 / 6,

KSH	4.9	201	Pn	12 48 56.9	2.4		
			Pg	12 49 08.9	3.3		
			iSg	12 50 11.9	−0.5		
WMQ	6.8	89	Pn	12 49 22.4	1.4		
			Sn	12 50 40.0	−1.6		
			LG_2	12 51 21.8	−2.5		
			SMN	M_L = 4.7	1.0	0.29	
			SME		1.0	0.37	
GTA	16.7	99	eP	12 51 33.1	−4.0		
			LG_1	12 56 32.3	7.4		
LZH	21.1	103	eP	12 52 25.5	−2.6		
BTO	23.7	87	eP	12 53 00.0	6.3		
HHC	24.7	86	eP	12 53 08.8	5.1		
TIY	26.5	92	eP	12 53 20.4	0.0		
BJI	28.3	85	P	12 53 44.0	7.2		

1986 5 10
O = 15 01 49.1 ± 0.20s
LAT = 51.39 N ± 2.10km
LONG = 175.84 W ± 1.09km
DEPTH = 39 km ± 1.76km
STATIONS USED = 49, STAND DEV = 1.39s

CN2	39.4	283	eP	15 09 16.0	−0.9		
SNY	41.6	281	eP	15 09 35.8	0.4		
BJI	47.2	284	eP	15 10 20.5	0.3		
			sP	15 10 34.0	−1.2		
TIA	49.0	279	eP	15 10 34.6	0.2		
HHC	49.5	288	+P	15 10 36.8	−1.3		
BTO	50.5	288	P	15 10 47.2	0.8		
TIY	50.9	284	eP	15 10 49.5	0.3		
			PMZ		1.0	0.030	
WHN	54.5	276	eP	15 11 15.0	−0.8		
XAN	55.5	283	eP	15 11 22.0	−0.9		
			sP	15 11 35.5	−2.5		
LZH	57.2	288	eP	15 11 34.5	−0.6		
GTA	57.3	294	P	15 11 35.0	−1.0		
CD2	60.8	284	eP	15 12 00.4	0.2		
WMQ	60.9	305	P	15 11 59.4	−1.5		
GYA	62.2	278	P	15 12 09.0	−0.5		
KMI	65.6	280	eP	15 12 31.0	−0.8		

1986 5 10
O = 18 00 43.5 ± 0.10s
LAT = 51.01 N ± 1.04km
LONG = 176.66 W ± 0.87km
DEPTH = 41 km ± 0.96km
STATIONS USED = 19, STAND DEV = 1.10s

SNY	41.2	281	eP	18 08 25.2	−0.9		
BJI	46.8	284	eP	18 09 10.5	−0.7		
BTO	50.2	288	P	18 09 39.0	1.2		
XAN	55.1	283	eP	18 10 14.7	0.6		
LZH	56.8	288	eP	18 10 27.0	0.3		
GTA	57.0	293	+P	18 10 26.8	−1.1		
GYA	61.7	278	eP	18 11 00.2	−0.5		

1986 5 10
O = 21 36 10.7 ± 0.16s
LAT = 28.41 N ± 2.30km
LONG = 140.81 E ± 2.96km
DEPTH = 35 km ± 0.65km
STATIONS USED = 61, STAND DEV = 1.95s
Ms = 4.7 / 22, m_B = 5.6 / 29

MDJ	18.5	334	eP	21 40 24.0	−2.0		
			S	21 43 44.0	−3.1		
DL2	19.1	308	P	21 40 31.0	−1.9		
			PMZ	m_B = 5.6	6.0	1.65	
			S	21 44 04.0	4.0		
			SMN	m_B = 5.6	8.0	1.08	
			SME		8.0	1.63	
			LN	Ms = 4.6	10.0	1.01	
			LE		9.0	0.20	
NJ2	19.3	286	+P	21 40 36.0	0.3		
			PMZ	m_B = 5.8	6.0	3.20	
			S	21 44 06.0	0.4		
			SMN	m_B = 5.7	9.0	2.80	
			LN	Ms = 4.9	14.0	2.50	
SNY	19.4	318	−P	21 40 35.0	−1.6		
			pP	21 40 44.0	−0.7		
			sS	21 44 19.5	−1.2		
			SME	m_B = 5.3	11.0	1.23	
			LN	Ms = 4.8	12.0	1.03	
			LE		12.0	1.44	
CN2	19.7	325	−P	21 40 37.0	−3.0		
			PMZ	m_B = 5.2	5.0	0.60	
			eS	21 44 06.0	−9.0		
QZH	20.2	265	eP	21 40 42.5	−2.4		
			S	21 44 16.0	−7.8		
			PcP	21 44 58.0	−0.1		
			LN	Ms = 4.2	10.0	0.35	
TIA	21.4	297	eP	21 40 58.0	−0.2		

			S	21 44 50.0	1.5			
			SMN	m_B=5.6		7.0	0.49	
			SME			8.0	1.67	
			LE	Ms=4.8		9.0	1.09	
WHN	23.1	282	eP	21 41 15.2	0.4			
			PMZ	m_B=5.8		6.0	2.83	
			S	21 45 22.0	3.0			
			SMN	m_B=5.6		8.0	1.59	
			LN	Ms=4.9		10.0	1.20	
			LE			11.0	0.89	
BJI	23.4	306	eP	21 41 17.0	−0.1			
			PMZ	m_B=5.4		6.0	1.07	
			SMN	m_B=5.7		7.0	1.28	
			SME			10.0	1.26	
			LN	Ms=4.5		11.0	0.62	
GZH	25.3	264	+P	21 41 37.0	1.4			
			PMZ	m_B=5.6		7.0	1.18	
			S	21 46 02.5	6.5			
			SMN	m_B=5.5		9.0	1.33	
TIY	25.4	299	+iP	21 41 37.5	0.1			
			PMZ	m_B=6.1		5.0	2.30	
			PP	21 42 20.0	3.8			
			S	21 46 07.0	8.2			
			LE	Ms=4.3		12.0	0.36	
HHC	26.9	305	+P	21 41 50.0	−1.3			
			PP	21 42 35.0	−1.6			
			S	21 46 25.0	1.7			
			SME	m_B=5.4		9.0	0.92	
			SS	21 47 36.0	−1.9			
			LE	Ms=4.7		12.0	0.87	
XAN	27.8	290	+P	21 41 58.0	−0.8			
			PMZ	m_B=5.5		6.0	0.66	
			S	21 46 34.0	−2.7			
BTO	28.0	304	P	21 41 59.0	−1.8			
			S	21 46 36.0	−4.2			
QZN	29.8	259	P	21 42 16.5	−0.1			
			S	21 47 09.0	0.2			
			LN	Ms=4.6		11.0	0.40	
			LE			10.0	0.30	
GYA	30.3	274	P	21 42 22.0	0.5			
			S	21 47 18.0	0.8			
LZH	32.0	293	eP	21 42 36.5	−0.4			
			PMZ	m_B=5.8		5.0	0.81	
			ePP	21 43 49.0	6.1			
			eS	21 47 43.0	−2.5			
			LN	Ms=4.8		11.0	0.63	
CD2	32.2	284	eP	21 42 37.5	−0.6			
			ePP	21 43 46.8	1.8			
			S	21 47 44.0	−2.8			
			LE	Ms=4.9		9.0	0.69	
KMI	34.1	273	+P	21 42 55.0	0.6			
			PMZ	m_B=5.5		6.0	0.50	
			S	21 48 18.0	2.3			
GTA	35.5	299	+P	21 43 06.1	−0.3			
			PP	21 44 34.0	7.7			
			S	21 48 37.0	−0.6			
			LN	Ms=4.6		15.0	0.55	
LSA	43.2	284	eP	21 44 08.5	−2.2			
			PMZ	m_B=5.6		6.0	0.59	
			ePP	21 45 51.0	−1.7			
			eS	21 50 28.8	−6.2			
WMQ	44.8	305	eP	21 44 24.0	0.3			
KSH	53.9	300	+P	21 45 44.8	12.3			

1986 5 10

O=21 37 05.8 ± 0.22s
LAT=51.61 N ± 1.63km
LONG=174.67 W ± 0.89km
DEPTH= 28 km ± 1.92km
STATIONS USED = 19, STAND DEV= 2.99s

SNY	42.3	282	−P	21 44 59.2	0.3			
BJI	47.8	285	eP	21 45 43.0	−0.4			
XAN	56.1	284	P	21 46 57.0	12.0			
GYA	62.9	279	P	21 47 44.0	12.7			

1986 5 11

O=01 24 25.8 ± 0.08s
LAT=26.64 N ± 1.30km
LONG=125.41 E ± 1.13km
DEPTH=205 km ± 0.61km
STATIONS USED = 96, STAND DEV= 1.52s
m_B=6.6 / 41

SSE	5.8	321	+iP	01 25 52.0	0.9			
			PMZ			3.0	42.6	
			sP	01 26 39.0	4.6			
			iS	01 26 52.0	−5.2			
QZH	6.4	256	+iP	01 25 58.5	−0.3			
			S	01 27 12.0	1.1			
			SME	m_B=6.4		11.0	49.0	
NJ2	7.9	315	+iP	01 26 19.0	0.9			
			PMZ	m_B=6.6		4.0	15.2	
			iS	01 27 46.0	0.3			
WHN	10.5	294	+iP	01 26 52.2	0.3			
			PMZ	m_B=6.2		10.0	12.0	
			sP	01 27 45.0	4.9			
			iS	01 28 49.0	2.6			
			SMN	m_B=6.4		11.0	29.3	
GZH	11.5	255	+iP	01 27 05.5	0.2			
			sP	01 27 58.0	3.6			
			iS	01 29 07.0	−3.7			

			SMN		$m_B = 6.7$		11.0	39.8
			SME				9.0	14.5
TIA	11.9	325	−iP	01 27 12.3		2.4		
			pP	01 27 03.7		−5.9		
			S	01 29 19.0		0.4		
			sS	01 29 28.0		9.4		
			ScS	01 39 28.8		2.1		
DL2	12.6	346	−iP	01 27 22.0		2.4		
			PMZ		$m_B = 6.4$		4.0	7.70
			sP	01 28 16.0		6.2		
			iS	01 29 43.0		6.4		
			SMN		$m_B = 6.9$		6.0	14.1
			SME				7.0	41.8
			ScS	01 39 30.0		1.6		
SNY	15.2	355	−iP	01 27 54.0		2.2		
			sP	01 28 45.0		0.6		
			iS	01 30 40.0		5.0		
			SME				24.0	79.6
			ScS	01 39 35.7		1.1		
BJI	15.4	332	−iP	01 27 55.5		1.3		
			PMZ		$m_B = 6.6$		7.0	18.0
			esP	01 28 49.0		2.1		
			eS	01 30 41.5		2.2		
			SMN		$m_B = 6.8$		10.0	21.3
			SME				12.0	52.5
			ScP	01 35 59.5		1.6		
			PcS	01 36 21.0		2.4		
			ScS	01 39 36.0		0.8		
TIY	15.6	318	−iP	01 27 57.5		1.5		
			PMZ		$m_B = 6.9$		5.0	24.8
			SMN		$m_B = 6.9$		9.0	58.5
			ScP	01 36 06.5		8.3		
XAN	16.0	301	−iP	01 28 01.6		0.0		
			PMZ		$m_B = 6.7$		7.0	19.0
			iS	01 30 56.0		3.0		
			SMN				14.0	40.8
			SME				11.0	39.9
QZN	16.2	245	−iP	01 28 04.0		0.1		
			PMZ		$m_B = 6.2$		8.0	6.80
			sP	01 28 59.5		2.3		
			iS	01 30 58.0		0.8		
			SMN		$m_B = 6.9$		10.0	53.7
			SME				9.0	36.0
			ScP	01 35 58.0		−1.4		
GYA	16.8	274	−P	01 28 10.5		−0.1		
			PMZ		$m_B = 6.5$		7.0	13.0
			sP	01 29 09.0		4.5		
			S	01 31 12.0		2.9		
			SMN		$m_B = 6.6$		10.0	16.4
			SME				10.0	22.7
CN2	17.1	0	−iP	01 28 15.0		0.6		
			PMZ		$m_B = 6.7$		4.0	11.7
			sP	01 29 14.0		5.0		
			eS	01 31 18.5		1.4		
			SMN				13.0	7.02
			PcP	01 32 45.0		−2.2		
			ScP	01 36 00.0		−1.2		
			ScS	01 39 38.0		−2.0		
HHC	18.2	325	−iP	01 28 24.6		−1.8		
			PMZ		$m_B = 6.6$		6.0	14.0
			sP	01 29 21.0		−2.0		
MDJ	18.2	10	eP	01 28 26.0		−0.5		
			PMZ		$m_B = 6.0$		4.0	2.29
			ePP	01 28 45.0		−5.7		
			sP	01 29 25.0		1.6		
			PcP	01 32 49.0		−0.1		
			ScP	01 36 06.4		2.8		
			iS	01 31 44.0		3.8		
			SME				14.0	11.7
BTO	18.9	321	+iP	01 28 33.0		−0.1		
			PMZ		$m_B = 6.4$		6.0	8.50
			sP	01 29 32.5		1.2		
			S	01 31 53.0		1.3		
CD2	19.4	288	eP	01 28 37.6		−1.2		
			PMZ		$m_B = 6.5$		5.0	9.03
			P	01 28 43.0		4.6		
			S	01 32 01.0		−1.2		
			SMN		$m_B = 6.9$		11.0	67.0
KMI	20.4	271	−iP	01 28 49.5		0.3		
			PMZ		$m_B = 6.5$		7.0	10.5
			PP	01 29 24.0		3.8		
			sP	01 29 52.0		1.7		
			iS	01 32 24.0		2.1		
			SME				14.0	68.5
			SS	01 33 20.0		0.7		
LZH	20.6	302	−iP	01 28 51.0		−0.1		
			PP	01 29 29.0		6.0		
			sP	01 29 56.0		3.5		
			S	01 32 28.0		3.7		
GTA	24.9	307	−iP	01 29 30.0		−1.5		
			PMZ				16.0	13.0
			pP	01 30 13.6		2.8		
			PP	01 30 17.4		−0.6		
			sP	01 30 40.0		5.0		
			ScP	01 36 22.1		2.2		
			S	01 33 35.0		−1.4		
			SME		$m_B = 6.2$		11.0	15.6
			PcS	01 36 41.8		1.2		
LSA	30.3	284	−P	01 30 19.1		−1.7		
			pP	01 31 03.0		1.4		

			sP	01 31 30.0	4.8		
			S	01 35 05.0	1.6		
			SMN	$m_B = 6.3$		10.0	16.4
			SME			11.0	13.7
WMQ	34.9	309	−iP	01 30 58.5	−1.5		
			pP	01 31 43.0	0.8		
			sP	01 32 07.0	1.5		
			PcP	01 33 23.0	−4.8		
			S	01 36 12.0	−2.8		
			PcS	01 37 14.0	0.9		
			sS	01 37 32.5	2.9		
			SS	01 38 44.0	2.0		
KSH	42.9	300	−iP	01 32 07.7	1.7		
			pP	01 32 53.7	4.4		
			sP	01 33 20.7	8.5		
			iS	01 38 22.7	7.7		
			sS	01 39 40.7	9.7		
			LE			11.0	16.4

1986 5 11
O = 02 52 17.8 ± 0.12s
LAT = 3.44 S ± 1.80km
LONG = 147.14 E ± 3.94km
DEPTH = 10 km ± 0.52km
STATIONS USED = 61, STAND DEV = 1.81s
Ms = 5.2 / 5,

SSE	42.3	326	eP	03 00 11.0	−2.9		
			esP	03 00 25.0	2.7		
QZN	43.0	303	eP	03 00 19.6	0.5		
			ePP	03 01 54.5	−6.4		
			S	03 06 47.0	3.9		
			LN	Ms = 5.1		15.0	0.70
			LE			15.0	1.00
NJ2	44.4	325	eP	03 00 32.5	2.0		
WHN	46.1	320	eP	03 00 44.0	−0.1		
			eS	03 07 33.0	4.0		
			LE	Ms = 5.2		12.0	1.00
DL2	48.3	333	eP	03 01 02.8	1.4		
TIA	48.4	327	eP	03 01 03.0	0.5		
GYA	49.1	310	P	03 01 10.8	2.5		
SNY	49.9	337	eP	03 01 11.6	−2.3		
MDJ	50.3	344	eP	03 01 13.5	−4.0		
CN2	50.9	340	eP	03 01 24.2	2.5		
KMI	51.6	306	eP	03 01 29.0	1.9		
BJI	51.8	330	eP	03 01 28.0	−0.1		
XAN	51.8	319	P	03 01 28.0	−0.7		
TIY	52.1	325	eP	03 01 29.9	−0.8		
CD2	53.6	313	eP	03 01 41.2	−0.9		
			eS	03 09 16.0	1.6		
			LN	Ms = 5.2		10.0	0.72
HHC	54.8	327	P	03 01 49.4	−1.1		
BTO	55.4	326	eP	03 01 55.0	−0.4		
			eS	03 09 38.0	−0.8		
			LN	Ms = 5.2		15.0	0.70
			LE			15.0	0.80
LZH	56.4	318	P	03 02 02.5	0.1		
GTA	60.9	319	P	03 02 33.0	−0.8		
WMQ	71.0	319	−P	03 03 37.5	−0.8		
KSH	77.8	311	eP	03 04 20.0	2.3		

1986 5 11
O = 04 09 06.8 ± 0.05s
LAT = 55.36 N ± 1.38km
LONG = 157.87 W ± 0.93km
DEPTH = 29 km ± 0.56km
STATIONS USED = 30, STAND DEV = 0.96s

MDJ	45.8	288	eP	04 17 27.5	−1.0		
CN2	48.6	290	+P	04 17 49.6	−0.6		
SNY	50.9	289	+P	04 18 08.4	0.2		
XAN	64.5	293	eP	04 19 43.0	−0.7		
GTA	64.9	303	+iP	04 19 46.8	0.5		
CD2	69.6	295	eP	04 20 16.8	0.6		
GYA	71.6	290	P	04 20 29.0	0.6		
LSA	76.9	303	eP	04 21 00.1	0.8		

1986 5 11
O = 04 42 52.4 ± 0.16s
LAT = 12.17 N ± 7.37km
LONG = 91.24 E ± 5.01km
DEPTH = 19 km ± 4.58km
STATIONS USED = 28, STAND DEV = 4.50s

KMI	16.9	39	eP	04 46 55.5	5.9		
QZN	19.2	67	eP	04 47 27.4	9.5		
CD2	21.9	30	eP	04 47 47.8	0.5		
XAN	27.1	34	eP	04 48 32.0	−4.5		
GTA	28.2	14	P	04 48 47.8	1.3		
WMQ	31.7	355	eP	04 49 21.0	3.3		
HHC	33.7	28	+P	04 49 39.8	4.7		
BJI	35.4	34	eP	04 49 56.0	6.2		
CN2	43.1	37	eP	04 50 55.0	1.1		

1986 5 11
O = 09 07 28.0 ± 0.09s
LAT = 24.85 N ± 1.06km
LONG = 123.07 E ± 0.69km
DEPTH = 8 km ± 0.67km
STATIONS USED = 11, STAND DEV = 2.63s
M_L = 3.2 / 4,

QZH	4.1	272	cPg	09 08 35.0	−4.8		
			cSg	09 09 34.0	−1.3		

		SMN	M_L = 3.3		1.2	0.060
		SME			1.4	0.060
		1986 5 11					
		O = 10 46 21.2	± 0.13s				
		LAT = 51.19 N	± 2.11km				
		LONG = 176.12 W	± 1.22km				
		DEPTH = 30 km	± 1.26km				
		STATIONS USED = 68, STAND DEV = 1.12s					
		Ms = 4.8 / 8,	m_B = 5.4 / 1				
MDJ	36.3	281	cP	10 53 22.3	−1.8		
			PP	10 54 49.0	2.1		
			S	10 59 05.0	3.6		
CN2	39.2	283	−P	10 53 48.0	−1.0		
			PMZ			3.0	0.30
			sP	10 53 56.5	−5.2		
			PP	10 55 20.0	−3.2		
			eS	10 59 47.0	−0.6		
SNY	41.5	281	−iP	10 54 08.8	1.4		
DL2	44.4	279	eP	10 54 31.0	−0.2		
TIA	48.9	279	eP	10 55 06.5	0.0		
HHC	49.4	288	+iP	10 55 10.0	−0.4		
SSE	49.7	271	+P	10 55 12.0	−0.8		
			PMZ			1.2	0.058
			esP	10 55 23.0	−2.5		
			ePP	10 57 10.0	2.6		
			eS	11 02 19.0	0.3		
			sS	11 02 32.0	−1.6		
			LE	Ms = 4.8		20.0	0.58
BTO	50.4	288	−iP	10 55 20.0	1.3		
			pP	10 55 28.0	0.5		
			eS	11 02 35.0	5.6		
			LN	Ms = 5.2		18.0	1.00
			LE			18.0	0.90
NJ2	50.5	274	−P	10 55 19.2	0.1		
TIY	50.8	284	+P	10 55 22.5	1.1		
			PMZ			1.0	0.080
			PcS	11 00 28.0	−5.4		
			LN	Ms = 5.0		17.0	0.62
			LE			15.0	0.28
WHN	54.4	276	eP	10 55 46.5	−1.3		
XAN	55.3	283	eP	10 55 55.0	−0.2		
LZH	57.0	288	+iP	10 56 08.0	0.4		
			pP	10 56 15.0	−1.4		
GZH	60.3	270	eP	10 56 32.7	3.0		
CD2	60.7	284	eP	10 56 32.8	0.3		
			pP	10 56 38.3	−3.1		
			eS	11 04 52.0	6.3		
			LE	Ms = 4.9		24.0	0.61
WMQ	60.8	305	P	10 56 33.0	−0.8		
GYA	62.0	278	P	10 56 41.4	−0.3		
KMI	65.4	280	+P	10 57 04.5	0.4		
			sP	10 57 16.5	−0.3		
			eS	11 05 50.0	4.4		
KSH	70.0	308	eP	10 57 32.9	0.2		
		1986 5 11					
		O = 13 40 35.7	± 0.06s				
		LAT = 51.51 N	± 2.58km				
		LONG = 173.67 W	± 1.22km				
		DEPTH = 33 km	± 0.76km				
		STATIONS USED = 77, STAND DEV = 0.96s					
		Ms = 5.2 / 15,					
MDJ	37.7	282	eP	13 47 49.7	−0.6		
			PP	13 49 20.0	0.9		
CN2	40.7	284	+P	13 48 14.0	−0.9		
			PMZ			3.0	0.30
			pP	13 48 21.0	−3.2		
			PP	13 49 48.0	−4.1		
			eS	13 54 16.0	−6.8		
SNY	42.9	283	+iP	13 48 34.3	1.0		
			sP	13 48 46.5	−0.2		
			eS	13 54 52.0	−3.8		
			LN	Ms = 5.2		20.0	1.94
DL2	45.8	280	+P	13 48 57.0	0.0		
BJI	48.5	285	eP	13 49 18.0	0.5		
			sP	13 49 30.0	−0.9		
			eS	13 56 17.0	1.5		
			eScS	13 59 06.0	2.0		
			LN	Ms = 5.2		20.0	1.47
TIA	50.3	281	+P	13 49 32.0	0.2		
			sP	13 49 44.0	−1.1		
			S	13 56 45.0	4.8		
			LE	Ms = 5.3		18.0	1.54
HHC	50.7	289	P	13 49 34.5	−0.4		
			sP	13 49 47.0	−1.1		
SSE	51.2	273	+P	13 49 38.0	−0.5		
			PMZ			1.0	0.11
			sP	13 49 52.0	0.2		
			eS	13 56 51.0	−2.6		
			sS	13 57 08.0	−1.3		
			LN	Ms = 4.9		20.0	0.56
			LE			20.0	0.58
BTO	51.8	290	−iP	13 49 43.0	0.0		
			esP	13 49 54.0	−2.3		
			LN	Ms = 5.2		17.0	0.70
			LE			17.0	1.10
NJ2	52.0	276	eP	13 49 43.0	−1.5		
			eS	13 57 04.0	−0.7		
			LN	Ms = 4.9		14.0	0.50

TIY	52.2	285	-iP	13 49 47.3	1.3	
			PMZ		1.2	0.070
			S	13 57 12.5	6.4	
			LN	Ms=5.2	17.0	0.77
			LE		17.0	0.80
WHN	55.8	277	eP	13 50 11.5	-1.2	
			sP	13 50 25.0	-1.2	
			eS	13 57 56.0	-0.5	
			LN	Ms=5.0	16.0	0.63
XAN	56.8	284	+P	13 50 19.0	-0.5	
LZH	58.4	289	+iP	13 50 31.0	-0.1	
GTA	58.5	295	+P	13 50 30.6	-0.9	
			LE	Ms=5.2	17.0	0.96
WMQ	61.9	306	P	13 50 55.0	-0.1	
			PMZ		15.0	0.039
			PcP	13 51 35.0	0.4	
CD2	62.1	285	eP	13 50 56.4	0.4	
			sP	13 51 10.0	0.5	
			eS	13 59 16.0	-1.5	
GYA	63.5	280	P	13 51 06.0	0.5	
			sP	13 51 19.0	0.0	
			S	13 59 35.0	1.2	
KMI	66.9	282	+P	13 51 28.0	0.6	
			sP	13 51 42.0	1.2	
			eS	14 00 20.0	3.0	
			sS	14 00 37.0	4.5	
			LN	Ms=5.1	18.0	0.60
LSA	70.4	293	P	13 51 50.3	0.8	
KSH	71.0	310	+P	13 51 53.9	1.1	

1986 5 11
O=13 43 49.9 ± 0.07s
LAT=51.59 N ± 2.69km
LONG=173.73 W ± 1.14km
DEPTH= 31 km ± 0.60km
STATIONS USED = 59, STAND DEV= 1.14s
Ms=5.1/12,

MDJ	37.6	282	eP	13 51 04.0	-0.4	
			PP	13 52 35.0	2.1	
CN2	40.6	284	+P	13 51 28.0	-0.9	
			PMZ		3.0	0.30
			pP	13 51 35.0	-2.8	
			PP	13 53 02.0	-4.0	
			eS	13 57 30.0	-6.6	
SNY	42.8	282	+iP	13 51 48.3	0.9	
			pP	13 52 01.0	4.6	
			eS	13 58 04.0	-5.7	
			LN	Ms=5.2	18.0	1.72
			LE		20.0	0.96
DL2	45.8	280	eP	13 52 11.0	-0.1	
BJI	48.4	285	eP	13 52 32.0	0.4	
			cSP	13 52 44.0		
			cS	13 59 24.0	-5.4	
			cScS	14 02 20.0	1.6	
			LN	Ms=5.2	20.0	1.71
TIA	50.3	281	P	13 52 45.0	-0.9	
			SP	13 52 56.0		
			S	13 59 58.0	3.8	
			LE	Ms=5.3	18.0	1.54
HHC	50.7	289	+P	13 52 48.0	-1.0	
SSE	51.2	273	+P	13 52 52.0	-0.7	
			PMZ		1.1	0.11
			sP	13 53 07.0	1.5	
			eS	14 00 05.0	-2.7	
			esS	14 00 22.0	-0.7	
			LE	Ms=4.9	20.0	0.69
NJ2	52.0	275	eP	13 52 58.0	-0.7	
			eS	14 00 17.0	-1.8	
TIY	52.1	285	+P	13 53 01.0	0.9	
			PMZ		1.2	0.080
			S	14 00 26.5	6.4	
			LN	Ms=5.1	15.0	0.55
			LE		17.0	0.80
WHN	55.8	277	eP	13 53 25.5	-1.4	
			sP	13 53 40.0	0.2	
			eS	14 01 08.0	-2.5	
			LN	Ms=5.0	17.0	0.75
XAN	56.7	284	+P	13 53 33.2	-0.4	
LZH	58.3	289	+iP	13 53 45.5	0.3	
CD2	62.0	285	eP	13 54 10.8	0.6	
			sP	13 54 24.0	0.9	
			eS	14 02 34.0	2.5	
			LE	Ms=5.1	22.0	1.02
GYA	63.4	280	P	13 54 20.2	0.5	
			sP	13 54 33.0	0.4	
KMI	66.8	282	+P	13 54 42.0	0.4	
			sP	13 54 55.0	0.6	
			eS	14 03 36.0	4.9	
			LN	Ms=5.2	18.0	0.80
LSA	70.3	293	+P	13 55 04.0	0.4	
KSH	70.9	310	+P	13 55 06.9	0.0	

1986 5 11
O=15 19 28.6 ± 0.12s
LAT= 6.76 N ± 1.05km
LONG=126.90 E ± 1.29km
DEPTH= 92 km ± 1.06km
STATIONS USED = 33, STAND DEV= 2.19s

QZN	20.6	308	eP	15 24 04.3	1.8	
GYA	27.5	318	P	15 25 09.4	0.8	

XAN	31.8	331	eP	15 25 45.1	−2.1			
CD2	32.4	321	eP	15 25 51.8	0.0			
BJI	34.5	345	eP	15 26 09.5	−0.6			
SNY	35.0	356	eP	15 26 04.8	−9.9			
LZH	36.0	327	eP	15 26 25.0	1.7			
HHC	36.6	340	P	15 26 26.2	−1.9			
GTA	40.6	327	+iP	15 27 02.0	0.5			
WMQ	50.4	324	P	15 28 19.8	0.8			

1986 5 11
O = 17 51 33.8 ± 0.17s
LAT = 35.21 N ± 1.18km
LONG = 78.78 E ± 2.40km
DEPTH = 33 km ± 0.13km
STATIONS USED = 12, STAND DEV = 3.41s
M_L = 4.1 / 2,

KSH	4.8	333	cPn	17 52 48.5	4.3		
			P*	17 52 58.8	7.1		
			Sg	17 54 03.8	−0.2		
WMQ	11.0	36	P	17 54 12.5	0.2		
			LG_2	17 57 29.5	−7.5		
			LE			1.2	0.034
GTA	17.2	70	P	17 55 39.8	5.8		

1986 5 11
O = 19 32 20.7 ± 0.12s
LAT = 51.22 N ± 1.20km
LONG = 176.60 W ± 0.84km
DEPTH = 37 km ± 1.02km
STATIONS USED = 38, STAND DEV = 0.91s

SNY	41.2	281	−P	19 40 04.3	0.7		
BJI	46.8	284	eP	19 40 49.0	0.3		
HHC	49.1	287	P	19 41 06.0	−0.8		
BTO	50.1	288	P	19 41 15.5	0.4		
TIY	50.5	284	eP	19 41 18.2	0.5		
XAN	55.0	283	eP	19 41 50.7	−0.9		
LZH	56.8	288	P	19 42 03.5	−0.6		
GTA	56.9	293	eP	19 42 04.5	−0.6		
CD2	60.4	283	eP	19 42 29.3	0.2		
GYA	61.7	278	P	19 42 39.6	1.3		
KMI	65.1	280	eP	19 43 00.0	−0.8		

1986 5 11
O = 19 40 29.7 ± 0.07s
LAT = 51.60 N ± 2.36km
LONG = 173.81 W ± 1.07km
DEPTH = 31 km ± 0.73km
STATIONS USED = 89, STAND DEV = 1.00s
Ms = 5.6 / 33, m_B = 5.8 / 18

MDJ	37.6	282	+P	19 47 43.0	−0.7		
			PP	19 49 10.0	−2.1		
			eS	19 53 25.0	−6.1		
			LE	Ms = 5.7		20.0	7.47
CN2	40.6	284	+iP	19 48 07.6	−0.7		
			PMZ	m_B = 5.9		4.5	0.90
			PP	19 49 41.0	−4.2		
			PPMZ			10.0	0.80
			eS	19 54 09.0	−6.7		
SNY	42.8	282	+iP	19 48 27.7	0.9		
			PMZ			3.0	2.12
			sP	19 48 41.0	1.5		
			S	19 54 45.0	−2.9		
			LN	Ms = 5.6		19.0	3.82
			LE			18.0	1.75
DL2	45.7	280	+iP	19 48 50.0	−0.5		
			PMZ	m_B = 5.8		5.0	0.72
			pP	19 49 03.0	3.6		
			PP	19 50 41.0	3.4		
			SS	19 58 43.0	−4.1		
			LN	Ms = 5.5		20.0	3.64
BJI	48.4	285	eP	19 49 11.0	0.0		
			PMZ	m_B = 5.9		5.0	0.76
			ePP	19 51 04.0	1.5		
			eS	19 56 09.0	0.4		
			SMN	m_B = 5.1		10.0	0.28
			ScS	19 59 00.0	2.1		
			LN	Ms = 5.7		20.0	5.38
			LE			20.0	1.76
TIA	50.2	281	+P	19 49 25.9	0.6		
			LE	Ms = 5.6		20.0	4.21
HHC	50.6	289	+P	19 49 28.0	−0.4		
			PMZ	m_B = 5.4		5.0	0.25
			S	19 56 35.0	−3.7		
			PS	19 56 43.0			
			ScS	19 59 16.0	3.1		
			LN	Ms = 5.8		17.0	5.10
			LE			20.0	1.63
SSE	51.1	273	+P	19 49 33.0	0.9		
			PMZ	m_B = 6.2		4.0	1.20
			epP	19 49 41.0	−0.1		
			sP	19 49 45.0	0.2		
			PP	19 51 31.0	2.1		
			eS	19 56 45.0	−1.8		
			SME			15.0	0.98
			sS	19 56 58.0	−3.8		
			LE	Ms = 5.2		16.0	1.09
BTO	51.7	290	−iP	19 49 37.0	0.5		
			ePP	19 51 35.5	1.7		
			eS	19 56 51.0	−3.9		
			LN	Ms = 5.7		17.0	2.20

			LE			17.0	3.30
NJ2	51.9	275	+P	19 49 38.0	−0.1		
			PMZ	m_B = 5.9		5.0	0.80
			sP	19 49 51.2	0.3		
			S	19 56 55.0	−1.8		
			LN	Ms = 5.3		15.0	1.30
TIY	52.1	285	+iP	19 49 40.5	0.9		
			PMZ	m_B = 6.3		4.0	1.54
			sP	19 49 54.0	1.7		
			S	19 57 07.5	8.3		
WHN	55.7	277	+P	19 50 05.5	−0.8		
			PMZ	m_B = 6.2		4.0	1.29
			sP	19 50 19.0	−0.2		
			S	19 57 51.0	2.4		
			SME	m_B = 5.5		6.0	0.40
			sS	19 58 08.0	3.3		
			ScS	19 59 49.0	0.1		
			LN	Ms = 5.4		18.0	1.77
XAN	56.7	284	+P	19 50 12.5	−0.5		
			pP	19 50 26.0	3.9		
			S	19 58 04.0	3.3		
			LN	Ms = 6.5		16.0	1.41
			LE			16.0	21.6
LZH	58.3	289	+iP	19 50 25.0	0.3		
			PMZ	m_B = 6.1		4.0	1.06
			pP	19 50 37.0	3.5		
			eS	19 58 21.0	−2.7		
			ScS	20 00 10.0	2.7		
			LN	Ms = 5.5		16.0	1.90
GTA	58.3	295	+iP	19 50 24.4	−0.6		
			PMZ	m_B = 5.8		5.0	0.60
			PP	19 52 35.0	−0.1		
			PcS	19 55 16.5	1.7		
			ScS	20 00 09.2	1.4		
			LN	Ms = 5.6		16.5	2.56
GZH	61.7	272	−P	19 50 49.0	1.2		
			eS	19 59 14.0	6.8		
WMQ	61.8	306	P	19 50 48.2	−0.4		
			eS	19 59 04.0	−4.7		
			LN	Ms = 5.9		20.0	5.41
CD2	62.0	285	+iP	19 50 50.3	0.6		
			PMZ			1.2	0.37
			sP	19 51 04.0	1.5		
			LE	Ms = 5.8		20.0	4.42
KMI	66.8	281	+iP	19 51 21.5	0.4		
			PMZ	m_B = 6.0		4.0	0.70
			sP	19 51 35.5	1.7		
			S	20 00 14.0	5.4		
			LN	Ms = 5.3		18.0	1.00
LSA	70.3	293	+P	19 51 42.2	−0.9		
			eS	20 00 53.2	0.6		
			LN	Ms = 5.5		19.0	1.50
KSH	70.9	310	+iP	19 51 46.8	0.4		
			cPP	19 54 27.8	3.0		
			cS	20 01 02.8	4.0		
			cScS	20 01 43.8	0.6		
			LN	Ms = 6.0		18.0	4.90

1986 5 11
O = 20 10 18.1 ± 0.10s
LAT = 51.79 N ± 3.49km
LONG = 173.66 W ± 1.34km
DEPTH = 31 km ± 1.34km
STATIONS USED = 44, STAND DEV = 1.33s

MDJ	37.6	282	eP	20 17 29.5	−3.0		
CN2	40.6	284	eP	20 17 56.0	−1.0		
SNY	42.8	282	−iP	20 18 16.6	1.1		
BJI	48.4	285	eP	20 18 59.0	−0.7		
SSE	51.2	273	−P	20 19 23.6	2.5		
			PMZ			1.0	0.027
			sP	20 19 38.4	4.4		
BTO	51.7	289	eP	20 19 26.0	1.0		
TIY	52.1	285	P	20 19 29.1	0.9		
XAN	56.7	284	eP	20 20 00.8	−0.9		
GTA	58.4	295	+P	20 20 12.8	−0.6		
WMQ	61.8	306	eP	20 20 36.0	−0.7		
CD2	62.0	285	eP	20 20 38.6	0.3		
GYA	63.4	280	P	20 20 48.6	0.6		
KMI	66.8	281	eP	20 21 11.0	1.2		
LSA	70.3	293	+iP	20 21 32.6	1.1		

1986 5 11
O = 22 48 44.4 ± 0.12s
LAT = 51.50 N ± 3.24km
LONG = 174.68 W ± 1.56km
DEPTH = 34 km ± 1.26km
STATIONS USED = 78, STAND DEV = 1.37s
Ms = 5.4 / 30, m_B = 5.6 / 9

MDJ	37.1	282	+P	22 55 53.0	−0.7		
			PP	22 57 20.0	−0.3		
			eS	23 01 35.0	−2.3		
			LE	Ms = 5.6		20.0	6.59
CN2	40.0	283	+P	22 56 17.0	−1.4		
			PMZ	m_B = 5.6		4.5	0.50
			PP	22 57 53.0	−1.7		
			eS	23 02 18.0	−4.1		
			eSS	23 05 04.0	−9.1		
SNY	42.3	282	+iP	22 56 37.7	0.9		
			pP	22 56 53.0	6.7		
			S	23 02 47.0	−7.3		

			LN	Ms=5.5		20.0	2.91
			LE			20.0	2.15
DL2	45.2	280	eP	22 57 00.0	−0.6		
			sP	22 57 15.0	0.9		
			eS	23 03 36.0	−1.9		
			LN	Ms=5.1		16.0	1.26
BJI	47.9	285	eP	22 57 22.0	0.6		
			PMZ	m_B=5.7		5.0	0.54
			eSP	22 57 37.0			
			ePP	22 59 16.0	4.1		
			eS	23 04 13.0	−2.4		
			SMN	m_B=5.1		10.0	0.28
			LN	Ms=5.6		21.0	3.96
			LE			21.0	2.62
TIA	49.7	280	eP	22 57 35.6	0.0		
			sP	22 57 49.0	−0.1		
			PP	22 59 34.0	3.8		
			S	23 04 39.0	−1.1		
			LE	Ms=5.5		15.0	2.10
HHC	50.1	288	+P	22 57 38.0	−1.0		
			eS	23 04 44.0	−3.3		
			LN	Ms=5.4		20.0	2.50
			LE			20.0	0.98
SSE	50.6	272	+P	22 57 42.0	−0.3		
			PMZ			1.2	0.17
			pP	22 57 52.0	0.2		
			esP	22 57 56.0	0.2		
			eS	23 04 57.0	3.7		
			LN	Ms=5.0		19.0	0.96
BTO	51.2	289	−iP	22 57 47.0	−0.1		
			ePP	22 59 43.0	−0.8		
			eS	23 05 00.0	−2.1		
			LN	Ms=5.4		17.0	1.10
			LE			17.0	1.80
NJ2	51.4	275	+P	22 57 48.0	−0.4		
			PMZ	m_B=5.7		6.0	0.60
			S	23 05 09.0	5.7		
			LE	Ms=5.3		20.0	1.80
TIY	51.6	285	+P	22 57 51.0	1.0		
			PMZ			1.2	0.070
			PP	22 59 55.0	7.7		
			S	23 05 14.5	8.3		
			LE	Ms=5.4		18.0	2.20
WHN	55.2	277	P	22 58 15.0	−1.8		
			PMZ	m_B=6.0		5.0	0.95
			sP	22 58 32.0	1.5		
			eS	23 05 58.0	1.5		
			SMN	m_B=5.3		8.0	0.35
			ePS	23 06 16.0			
			LN	Ms=5.6		20.0	2.42
			LE			20.0	1.80
XAN	56.2	284	+P	22 58 23.3	−0.3		
			sP	22 58 38.0	0.7		
			PP	23 00 29.0	−0.5		
			LE	Ms=5.5		18.0	2.49
QZH	56.5	269	+P	22 58 25.0	−1.2		
			sP	22 58 41.0	1.0		
			eS	23 06 12.0	−2.0		
			LN	Ms=4.8		18.0	0.40
LZH	57.8	289	P	22 58 36.0	0.5		
			sP	22 58 50.0	1.0		
			eS	23 06 31.0	−0.2		
			LN	Ms=5.4		18.0	1.82
GZH	61.2	271	eP	22 58 59.1	0.7		
			eS	23 07 18.0	3.8		
WMQ	61.4	305	−P	22 59 00.0	−0.3		
			PMZ			1.0	0.056
			PcP	22 59 43.5	2.4		
			eS	23 07 16.2	−1.5		
			LN	Ms=5.7		20.0	3.33
CD2	61.5	285	eP	22 59 00.8	0.3		
			pP	22 59 16.0	5.8		
			eS	23 07 21.5	3.3		
			LE	Ms=5.7		17.0	2.76
GYA	62.9	279	+P	22 59 10.0	0.0		
			sP	22 59 27.0	3.4		
			S	23 07 42.0	7.5		
			LE	Ms=5.1		18.0	0.80
KMI	66.2	281	+P	22 59 32.0	−0.1		
			PMZ	m_B=5.8		5.0	0.60
			sP	22 59 45.0	−0.6		
			eS	23 08 22.0	4.0		
			sS	23 08 42.0	8.2		
			LN	Ms=5.3		18.0	1.00
QZN	66.3	271	eP	22 59 31.0	−1.4		
			eS	23 08 10.0	−8.7		
			PS	23 08 44.0			
			LE	Ms=5.3		19.0	1.20
LSA	69.8	292	+P	22 59 55.3	0.8		
KSH	70.5	309	eP	22 59 59.8	1.3		
			eS	23 09 07.8	−0.8		
			LE	Ms=5.9		17.0	3.50

1986 5 12

O=01 25 51.9 ± 0.30s
LAT=14.54 N ± 4.25km
LONG=147.82 E ± 4.09km
DEPTH= 44 km ± 1.31km
STATIONS USED = 50, STAND DEV= 2.71s

SSE	29.4	309	eP	01 31 51.0	−3.1		

			sP	01 32 05.2	−4.7		
MDJ	33.7	336	eP	01 32 34.7	2.9		
CN2	34.9	331	eP	01 32 35.6	−5.8		
TIA	34.9	314	eP	01 32 39.7	−2.0		
BJI	37.5	319	eP	01 33 09.0	4.9		
TIY	38.9	313	eP	01 33 14.8	−0.8		
GYA	40.2	294	P	01 33 32.6	6.6		
BTO	41.9	316	eP	01 33 38.5	−1.8		
CD2	43.5	300	eP	01 33 52.2	−1.0		
LZH	44.7	307	P	01 34 02.5	−0.6		
GTA	48.7	310	P	01 34 33.4	−1.4		
WMQ	58.6	313	eP	01 35 47.0	−0.3		

1986 5 12
O = 02 24 59.9 ± 0.14s
LAT = 23.91 N ± 1.07km
LONG = 122.67 E ± 1.49km
DEPTH = 17 km ± 2.57km
STATIONS USED = 10, STAND DEV = 2.15s
M_L = 3.0 / 4,

QZH	3.9	286	cPn	02 25 58.9	0.0		
			Sn	02 26 40.0	−5.8		
			SMN	M_L = 2.8		0.2	0.020
			SME			0.2	0.020
SSE	7.3	350	cPn	02 26 47.5	1.6		

1986 5 12
O = 03 47 37.2 ± 0.14s
LAT = 51.28 N ± 2.45km
LONG = 174.56 W ± 1.32km
DEPTH = 42 km ± 1.44km
STATIONS USED = 73, STAND DEV = 1.65s
Ms = 5.1 / 17, m_B = 5.5 / 3

MDJ	37.2	282	+P	03 54 45.3	−1.5		
			PP	03 56 15.0	1.1		
			eS	04 00 22.0	−8.3		
CN2	40.2	284	+P	03 55 13.0	1.5		
			PMZ	m_B = 5.5		4.0	0.30
			PP	03 56 42.0	−6.0		
			eS	04 01 12.0	−3.1		
SNY	42.4	282	+iP	03 55 30.4	0.5		
			PMZ			3.0	0.90
			pP	03 55 43.2	2.3		
			S	04 01 48.0	0.8		
			SMN			18.0	0.53
			SME			18.0	0.35
			eSS	04 04 52.0	−0.1		
			LN	Ms = 5.2		18.0	1.48
			LE			20.0	0.90
DL2	45.3	280	eP	03 55 53.0	−0.5		
BJI	48.0	285	eP	03 56 14.0	−0.4		
			eS	04 03 11.0	2.7		
			LN	Ms = 5.4		21.0	2.35
			LE			20.0	1.38
TIA	49.8	280	eP	03 56 27.9	−0.6		
			eS	04 03 30.5	−3.4		
			LE	Ms = 5.0		18.0	0.96
HHC	50.3	289	P	03 56 31.0	−1.1		
SSE	50.7	272	+P	03 56 35.0	0.0		
			cpP	03 56 45.0	−1.0		
			sP	03 56 50.0	−0.6		
			eS	04 03 48.0	2.4		
			csS	04 03 58.0	−6.5		
			LN	Ms = 5.0		19.0	0.56
			LE			19.0	0.57
BTO	51.3	289	−P	03 56 40.0	−0.2		
			cPP	03 58 36.0	−1.0		
			eS	04 03 53.0	−2.2		
			LN	Ms = 5.2		17.0	0.70
			LE			17.0	0.90
NJ2	51.5	275	+P	03 56 41.0	−0.1		
			LN	Ms = 5.0		12.0	0.60
TIY	51.7	285	+iP	03 56 43.5	0.5		
			PMZ			1.0	0.070
			pP	03 56 58.5	4.4		
			S	04 04 06.5	7.4		
			LE	Ms = 5.1		19.0	1.11
WHN	55.3	277	eP	03 57 08.0	−1.5		
			PMZ	m_B = 5.9		4.0	0.65
			eS	04 04 46.0	−2.9		
XAN	56.3	284	+P	03 57 05.9	−10.7		
LZH	58.0	289	P	03 57 27.5	−1.0		
GTA	58.1	294	+P	03 57 27.5	−1.7		
			LE	Ms = 5.3		16.0	1.29
CD2	61.6	285	eP	03 57 53.4	0.0		
			S	04 06 05.0	−4.5		
			LE	Ms = 5.5		18.0	1.95
WMQ	61.6	305	+P	03 57 52.5	−1.0		
GYA	63.0	279	P	03 58 02.6	−0.2		
KMI	66.4	281	+P	03 58 25.0	0.2		
			sP	03 58 38.0	−2.6		
			eS	04 07 17.0	6.6		
			LN	Ms = 5.3		18.0	1.00
QZN	66.4	271	eP	03 58 25.5	0.6		
KSH	70.7	309	eP	03 58 52.0	0.4		
			eS	04 08 02.0	0.2		
			LN	Ms = 5.6		18.0	2.10

1986 5 12
O = 04 39 40.9 ± 0.11s

LAT= 0.50 N ± 1.11km
LONG=127.30 E ± 1.79km
DEPTH=122 km ± 0.86km
STATIONS USED = 46, STAND DEV= 1.51s

WHN	32.3	339	eP	04 46 01.0	0.2
NJ2	32.4	347	eP	04 46 02.2	0.8
GYA	32.6	324	P	04 46 05.0	1.8
XAN	37.5	335	P	04 46 45.1	−0.3
CD2	37.6	326	eP	04 46 47.5	1.8
TIY	39.5	341	eP	04 47 02.0	0.5
BJI	40.6	347	eP	04 47 11.5	0.6
SNY	41.3	356	+eP	04 47 15.4	−0.7
LZH	41.6	331	eP	04 47 20.0	1.3
MDJ	44.0	2	eP	04 47 36.0	−2.1
GTA	46.2	330	P	04 47 55.9	0.3
WMQ	55.7	326	+P	04 49 07.5	0.0

1986 5 12
O=05 14 06.3 ± 0.20s
LAT=51.02 N ± 2.56km
LONG=176.17 W ± 1.80km
DEPTH= 41 km ± 2.00km
STATIONS USED = 22, STAND DEV= 2.46s

SNY	41.5	282	−eP	05 21 50.6	−0.8
BJI	47.1	284	eP	05 22 35.5	−0.9
BTO	50.5	289	eP	05 23 02.5	−0.3
TIY	50.8	284	eP	05 23 05.0	−0.4
GTA	57.2	294	P	05 23 50.4	−2.3

1986 5 12
O=08 10 15.3 ± 0.11s
LAT=51.42 N ± 4.64km
LONG=176.42 W ± 2.04km
DEPTH= 27 km ± 0.92km
STATIONS USED = 42, STAND DEV= 1.66s
Ms=4.6/ 1, m_B=5.4/ 1

MDJ	36.0	281	eP	08 17 16.5	−0.2
CN2	39.0	282	eP	08 17 41.6	0.0
SNY	41.2	281	−iP	08 18 01.9	1.8
BJI	46.8	284	eP	08 18 46.0	0.9
HHC	49.1	287	P	08 19 03.0	−0.1
BTO	50.2	288	eP	08 19 12.0	0.6
TIY	50.6	284	eP	08 19 15.9	1.8
XAN	55.1	283	eP	08 19 47.1	−1.0
LZH	56.8	288	P	08 20 00.5	0.1
GYA	61.8	278	P	08 20 34.2	−0.7
KMI	65.2	280	eP	08 20 57.0	−0.3

1986 5 12
O=09 29 50.8 ± 0.17s
LAT=51.36 N ± 1.61km
LONG=176.20 W ± 1.54km
DEPTH= 44 km ± 1.49km
STATIONS USED = 25, STAND DEV= 1.55s

SNY	41.4	281	−iP	09 37 35.5	0.7
TIA	48.8	279	eP	09 38 33.1	−0.8
NJ2	50.4	274	eP	09 38 46.0	−0.6
TIY	50.7	284	eP	09 38 49.2	0.5
XAN	55.3	283	eP	09 39 21.5	−1.0
CD2	60.6	284	eP	09 39 56.2	−3.6
GYA	61.9	278	P	09 40 08.8	−0.4
KMI	65.3	280	+P	09 40 31.5	−0.1

1986 5 12
O=10 35 01.7 ± 0.25s
LAT= 6.80 S ± 2.82km
LONG=112.39 E ± 3.26km
DEPTH= 41 km ± 0.67km
STATIONS USED = 36, STAND DEV= 1.78s
Ms=4.8/ 3,

QZN	25.8	354	eP	10 40 32.4	1.4		
			eS	10 44 57.0	1.9		
			LE	Ms=4.5	14.0	0.60	
KMI	33.1	344	eP	10 41 37.5	0.9		
GYA	33.5	351	P	10 41 41.0	0.8		
			S	10 47 03.0	5.7		
CD2	38.4	348	eP	10 42 21.8	0.4		
			eS	10 48 18.5	5.3		
			LE	Ms=5.2	18.0	2.16	
XAN	40.7	356	P	10 42 40.5	−0.4		
LZH	43.4	350	P	10 43 03.5	0.6		
BJI	46.7	4	eP	10 43 29.0	−0.2		
BTO	47.2	358	eP	10 43 33.1	0.0		
GTA	47.4	347	P	10 43 35.2	0.4		
			LE	Ms=4.8	16.0	0.47	
SNY	49.5	11	eP	10 43 44.4	−6.0		
CN2	51.7	12	eP	10 44 05.2	−2.5		
MDJ	53.5	15	eP	10 44 20.0	−0.7		
WMQ	55.1	338	P	10 44 31.5	−1.3		
KSH	57.0	327	eP	10 44 50.0	3.4		

1986 5 12
O=10 48 34.9 ± 0.15s
LAT=51.07 N ± 1.53km
LONG=176.14 W ± 1.22km
DEPTH= 39 km ± 1.50km
STATIONS USED = 23, STAND DEV= 1.41s

BJI	47.1	284	eP	10 57 06.0	0.8
HHC	49.4	288	P	10 57 23.0	−0.3
TIY	50.8	284	eP	10 57 34.6	0.4

XAN	55.4	283	eP	10 58 07.6	−0.4
LZH	57.1	288	P	10 58 20.0	−0.4
GYA	62.0	278	P	10 58 56.8	2.4

1986 5 12
O = 11 37 46.2 ± 0.17s
LAT = 51.37 N ± 0.85km
LONG = 175.42 W ± 0.60km
DEPTH = 44 km ± 1.30km
STATIONS USED = 22, STAND DEV = 0.95s

CN2	39.6	283	eP	11 45 14.4	−1.3		
SNY	41.9	282	−iP	11 45 34.8	0.6		
BJI	47.4	284	eP	11 46 18.5	−0.4		
XAN	55.7	283	P	11 47 20.4	−1.0		
GYA	62.4	279	eP	11 48 07.6	−0.2		

1986 5 12
O = 14 40 11.9 ± 0.17s
LAT = 4.70 S ± 2.28km
LONG = 139.94 E ± 2.67km
DEPTH = 33 km ± 0.32km
STATIONS USED = 42, STAND DEV = 2.56s
Ms = 4.7 / 2,

SSE	39.8	335	eP	14 47 45.0	0.7		
			epP	14 47 55.0	1.3		
			eS	14 53 40.0	−6.8		
			LE	Ms = 4.6		24.0	0.72
GYA	44.7	316	P	14 48 26.0	1.9		
KMI	46.7	311	eP	14 48 42.5	2.0		
XAN	48.4	325	eP	14 48 51.6	−1.7		
CD2	49.5	318	eP	14 49 01.6	0.0		
MDJ	50.0	350	eP	14 49 08.0	2.7		
CN2	50.0	346	eP	14 49 01.4	−4.3		
LZH	52.8	323	eP	14 49 26.5	−0.4		
GTA	57.4	324	eP	14 49 58.3	−1.9		
WMQ	67.3	322	P	14 51 05.6	−0.8		
KSH	73.3	313	eP	14 51 43.9	1.1		
			eS	15 01 09.0	0.4		

1986 5 12
O = 17 06 45.9 ± 0.30s
LAT = 51.66 N ± 5.13km
LONG = 175.15 W ± 2.63km
DEPTH = 36 km ± 0.36km
STATIONS USED = 33, STAND DEV = 1.29s

MDJ	36.8	281	eP	17 13 50.5	−1.9
CN2	39.7	283	eP	17 14 16.4	−0.7
SNY	42.0	281	−iP	17 14 37.3	1.7
BJI	47.5	284	eP	17 15 21.0	0.8
HHC	49.8	288	P	17 15 37.6	−0.2
BTO	50.9	289	eP	17 15 47.1	1.1
TIY	51.3	284	eP	17 15 49.4	0.4
XAN	55.8	283	eP	17 16 22.1	−0.6
LZH	57.5	288	eP	17 16 34.5	−0.1
GTA	57.6	294	P	17 16 33.6	−1.5
WMQ	61.1	305	P	17 16 58.3	−1.1
GYA	62.6	279	P	17 17 09.0	−0.3

1986 5 12
O = 20 16 45.7 ± 0.16s
LAT = 52.95 N ± 3.79km
LONG = 172.37 E ± 1.51km
DEPTH = 35 km ± 0.34km
STATIONS USED = 57, STAND DEV = 1.58s
Ms = 4.9 / 7,

MDJ	29.0	271	eP	20 22 44.0	−0.9		
CN2	32.0	273	−P	20 23 10.8	−0.3		
SNY	34.2	271	eP	20 23 30.4	−0.2		
TIA	41.6	269	eP	20 24 32.6	−0.3		
			LE	Ms = 5.1		10.0	0.81
HHC	42.0	279	P	20 24 36.2	−0.1		
BTO	43.1	279	−P	20 24 46.0	0.9		
			ePP	20 26 27.0	−0.5		
			eS	20 31 10.0	1.1		
NJ2	43.5	263	+P	20 24 47.0	−0.6		
			LE	Ms = 4.4		18.0	0.30
TIY	43.5	274	eP	20 24 50.0	1.9		
			S	20 31 08.5	−4.7		
			LN	Ms = 4.9		16.0	0.52
			LE			16.0	0.54
XAN	48.1	273	eP	20 25 24.0	−0.4		
			S	20 32 12.0	−6.6		
LZH	49.7	279	+P	20 25 37.5	0.1		
GTA	49.9	285	+P	20 25 38.6	−0.1		
			eS	20 32 55.5	9.9		
			LE	Ms = 5.0		16.0	0.72
GZH	53.3	260	P	20 26 05.5	1.3		
CD2	53.4	274	eP	20 26 05.2	0.6		
WMQ	53.8	297	+P	20 26 08.0	−0.2		
GYA	54.8	268	P	20 26 15.0	−0.4		
			S	20 33 52.0	0.6		
KMI	58.2	270	eP	20 26 39.0	−0.5		
LSA	61.8	283	P	20 27 03.5	−0.9		
KSH	63.1	300	eP	20 27 13.3	0.1		
			eS	20 35 34.5	−6.2		

1986 5 12
O = 20 23 05.2 ± 0.19s
LAT = 51.22 N ± 5.09km
LONG = 174.64 W ± 2.53km

DEPTH= 34 km ± 2.10km
STATIONS USED = 49, STAND DEV= 2.61s
Ms=4.8/ 5,

MDJ	37.2	282	P	20 30 14.0	−1.2		
CN2	40.1	284	+P	20 30 39.1	−0.9		
SNY	42.4	282	+P	20 30 58.8	0.4		
BJI	48.0	285	eP	20 31 42.0	−1.0		
HHC	50.2	289	P	20 32 00.6	−0.1		
SSE	50.6	272	eP	20 32 04.0	0.6		
			PMZ			1.0	0.054
			esP	20 32 18.0	1.0		
			eS	20 39 12.0	−2.6		
			esS	20 39 30.0	−0.8		
BTO	51.3	289	eP	20 32 09.5	0.7		
TIY	51.7	285	eP	20 32 12.0	0.4		
			LN	Ms=5.0		11.0	0.31
			LE			11.0	0.33
XAN	56.2	284	+P	20 32 44.4	−0.7		
LZH	57.9	289	P	20 32 56.5	−0.7		
GTA	58.0	294	−iP	20 32 56.6	−1.3		
WMQ	61.6	305	P	20 33 21.1	−1.2		
GYA	62.9	279	P	20 33 30.2	−1.1		
KMI	66.3	281	−P	20 33 54.5	1.1		
LSA	69.9	293	P	20 34 15.9	−0.3		

1986 5 12
O=21 56 30.6 ± 0.14s
LAT=24.91 N ± 1.30km
LONG=123.06 E ± 1.80km
DEPTH= 22 km ± 1.74km
STATIONS USED = 18, STAND DEV= 2.23s
Ms=4.4/ 7,

QZH	4.1	271	eP*	21 57 36.7	−1.0		
			LN	Ms=3.8		8.0	1.75
SSE	6.4	345	eP*	21 58 11.0	−4.7		
			SS	21 59 34.0	3.4		
			LN	Ms=4.1		9.0	1.50
CD2	18.1	294	eP	22 00 41.5	−0.9		
			S	22 04 04.0	4.1		
			LN	Ms=5.0		8.0	1.38
			LE			8.0	1.37
LZH	19.9	309	eP	22 01 03.0	−1.2		
			LN	Ms=4.9		7.0	1.12
GTA	24.3	312	+P	22 01 47.8	−0.6		
			LE	Ms=4.4		10.0	0.36

1986 5 13
O=00 32 13.4 ± 0.20s
LAT=26.48 S ± 3.60km
LONG=114.60 W ± 5.54km
DEPTH= 4 km ± 0.79km
STATIONS USED = 19, STAND DEV= 3.07s

LZH	146.0	296	cPKP	00 51 54.5	−0.4
WMQ	155.0	319	cPKP	00 52 15.0	6.5

1986 5 13
O=04 03 29.8 ± 0.16s
LAT=26.97 N ± 1.92km
LONG=129.12 E ± 2.38km
DEPTH= 55 km ± 0.86km
STATIONS USED = 37, STAND DEV= 3.15s
Ms=4.2/ 6,

SSE	8.1	302	eP	04 05 23.5	−3.5		
			sP	04 05 34.5	−8.9		
			LN	Ms=3.8		13.0	0.72
			LE			12.0	0.20
NJ2	10.3	302	eP	04 05 55.0	−2.3		
			LE	Ms=4.1		14.0	1.20
SNY	15.5	344	eP	04 07 15.0	8.4		
BJI	16.9	324	eP	04 07 24.0	−0.2		
CN2	17.1	351	eP	04 07 40.6	14.8		
TIY	17.7	311	eP	04 07 38.5	4.5		
			S	04 10 55.0	9.6		
			LN	Ms=4.4		13.0	0.71
			LE			14.0	0.48
XAN	18.8	297	eP	04 07 44.8	−2.3		
HHC	20.0	318	eP	04 08 04.0	2.6		
GYA	20.1	274	eP	04 08 01.0	−0.6		
BTO	20.8	316	eP	04 08 10.0	0.4		
			eS	04 11 47.0	−6.6		
CD2	22.5	286	eP	04 08 25.0	−1.3		
			S	04 12 24.0	0.3		
			LE	Ms=4.7		14.0	1.15
LZH	23.3	299	eP	04 08 33.0	−1.3		
KMI	23.8	271	eP	04 08 39.5	1.0		

1986 5 13
O=05 56 24.9 ± 0.21s
LAT=51.25 N ± 2.52km
LONG=174.54 W ± 1.13km
DEPTH= 54 km ± 1.87km
STATIONS USED = 30, STAND DEV= 1.69s

SNY	42.4	282	+iP	06 04 16.2	−0.3
BJI	48.0	285	eP	06 05 00.0	−1.0
TIY	51.7	285	P	06 05 28.8	−0.8
XAN	56.3	284	eP	06 06 01.6	−1.5
CD2	61.6	285	eP	06 06 39.4	−0.5
GYA	63.0	279	P	06 06 48.6	−0.6

1986 5 13

O = 08 44 01.5		± 0.18s					
LAT = 41.50 N		± 2.90km					
LONG = 43.71 E		± 1.36km					
DEPTH = 11 km		± 0.58km					
STATIONS USED = 83, STAND DEV = 1.46s							
Ms = 5.9 / 38,			m_B = 5.6 / 12				
KSH	24.6	84	+iP	08 49 24.1	1.0		
			iS	08 53 51.1	9.8		
			SS	08 54 42.1	6.8		
			ScP	08 56 47.1	8.2		
			LN	Ms = 5.9		12.0	14.7
WMQ	32.1	71	+iP	08 50 32.2	0.2		
			pP	08 50 36.2	−1.2		
			PP	08 51 32.5	−5.5		
			S	08 55 45.0	2.4		
			SS	08 57 41.0	5.2		
			LN	Ms = 5.9		11.0	8.53
LSA	39.9	92	+P	08 51 38.0	0.0		
			S	08 57 39.5	−1.8		
			LN	Ms = 5.4		16.0	2.99
GTA	42.1	74	+iP	08 51 56.6	0.6		
			PP	08 53 35.0	−1.2		
			PPMZ			5.0	0.60
			S	08 58 14.0	−0.4		
			SMN	m_B = 5.5		9.0	0.70
			LE	Ms = 5.7		13.0	4.30
LZH	46.4	76	+iP	08 52 31.0	0.6		
			PMZ			3.0	0.65
			S	08 59 16.0	0.0		
			SS	09 02 29.0	−5.1		
			LN	Ms = 5.9		12.0	5.50
CD2	48.7	82	eP	08 52 49.1	0.4		
			pP	08 52 53.0	−1.2		
			PP	08 54 39.3	−1.6		
			S	08 59 54.0	4.7		
			SME	m_B = 5.9		7.0	1.10
			LE	Ms = 5.8		26.0	7.64
BTO	48.9	68	P	08 52 50.5	0.5		
			PP	08 54 45.0	2.6		
			S	08 59 50.0	−1.5		
			LN	Ms = 5.9		16.0	5.90
			LE			15.0	3.20
HHC	49.8	67	+P	08 52 56.5	−0.9		
			S	08 59 59.0	−6.0		
			SMN	m_B = 5.6		6.0	0.40
			SME			6.0	0.33
			sS	09 00 07.0	−8.6		
			LN	Ms = 6.6		10.0	16.2
			LE			10.0	10.0
XAN	51.0	76	P	08 53 05.8	−0.4		
			S	09 00 20.0	−1.0		
			LN	Ms = 6.0		12.0	3.75
			LE			13.0	4.57
KMI	51.0	89	+P	08 53 06.0	−0.5		
			PMZ			3.0	1.02
			PP	08 55 06.0	3.2		
			S	09 00 26.0	4.8		
			SME	m_B = 5.8		5.0	0.70
			SS	09 04 02.0	8.1		
			LN	Ms = 5.6		16.0	3.30
TIY	51.8	70	eP	08 53 12.0	−0.4		
			PcP	08 54 25.0	0.4		
			S	09 00 31.5	−0.7		
			LN	Ms = 6.2		9.0	7.22
			LE			11.5	1.98
GYA	53.2	85	+P	08 53 22.0	−1.0		
			pP	08 53 25.0	−3.4		
			S	09 00 54.0	2.6		
			sS	09 01 09.0	7.0		
			LN	Ms = 5.8		17.0	3.70
			LE			17.0	3.40
BJI	53.4	66	eP	08 53 24.0	0.1		
			eS	09 00 56.0	1.6		
			SMN	m_B = 5.5		11.0	0.49
			SME			8.0	0.40
			eSS	09 04 36.0	3.5		
			LN	Ms = 6.0		13.0	5.01
TIA	55.8	70	eP	08 53 41.5	−0.4		
			eS	09 01 31.0	3.3		
			SMN	m_B = 5.6		10.0	0.31
			SME			10.0	0.75
			LN	Ms = 5.9		17.0	3.55
			LE			16.0	3.37
SNY	57.5	61	eP	08 53 49.6	−4.2		
			sP	08 53 57.4	−4.8		
			S	09 01 41.5	−7.1		
			SS	09 05 42.0	2.4		
			LN	Ms = 6.5		22.0	22.2
			LE			23.0	13.0
DL2	57.6	65	eP	08 53 54.0	−0.6		
			S	09 01 54.0	3.9		
			LN	Ms = 6.0		16.0	4.41
			LE			14.0	3.22
CN2	57.8	58	+P	08 53 54.2	−1.5		
			PMZ			3.0	0.50
			pP	08 53 57.0	−4.3		
			eS	09 01 49.0	−4.2		
			SME	m_B = 5.8		6.0	0.70
			LE	Ms = 6.3		17.0	13.5
NJ2	59.2	73	+P	08 54 04.0	−1.6		

			S	09 02 13.0	2.3		
			LN	Ms=6.0		16.0	5.50
QZN	59.9	91	P	08 54 10.0	−0.6		
			pP	08 54 14.0	−2.2		
			eS	09 02 16.0	−5.1		
			LN	Ms=5.7		15.0	1.50
			LE			15.0	2.20
MDJ	60.0	55	+P	08 54 12.5	1.5		
			iS	09 02 25.0	3.1		
			LN	Ms=5.7		30.0	5.69
GZH	60.1	85	P	08 54 11.8	−0.3		
			pP	08 54 15.5	−2.2		
			eS	09 02 25.0	1.1		
			LN	Ms=5.7		12.0	1.31
			LE			12.0	1.78
SSE	61.4	73	P	08 54 19.5	−1.1		
			pP	08 54 23.0	−3.3		
			S	09 02 40.0	1.2		
			SMN			14.0	1.34
			sS	09 02 44.0	−5.4		
			eSS	09 06 38.0	−2.8		
			LN	Ms=5.7		19.0	3.20
QZH	63.0	80	cP	08 54 30.0	−1.1		
			eS	09 03 00.0	0.2		
			LN	Ms=6.7		16.0	24.2

1986 5 13
O=09 56 36.3 ± 0.14s
LAT=20.77 S ± 3.46km
LONG=173.92 W ± 2.44km
DEPTH= 35 km ± 0.36km
STATIONS USED = 58, STAND DEV= 1.37s
Ms=5.2/ 4,

QZH	79.8	302	eP	10 08 42.0	−1.4
SSE	80.8	308	P	10 08 48.6	−0.4
			epP	10 08 59.0	0.1
			eSKS	10 18 58.0	−1.0
			esS	10 19 07.0	−3.3
MDJ	83.0	323	−P	10 09 00.7	0.5
			pP	10 09 11.2	1.1
			S	10 19 17.0	2.8
			LE	Ms=5.1	25.0 0.70
NJ2	83.0	308	+P	10 09 00.0	−0.4
			LE	Ms=5.3	16.0 0.60
QZN	84.5	293	cP	10 09 06.5	−1.2
			cS	10 19 22.0	−8.8
DL2	84.6	315	cP	10 09 08.0	−0.3
CN2	84.9	321	+P	10 09 09.0	−0.8
			PMZ		3.0 0.50
			pP	10 09 20.0	0.3
			sP	10 09 24.0	0.2
			eS	10 19 34.0	−0.9
			sS	10 19 52.5	1.1
SNY	84.9	318	eP	10 09 06.8	−3.1
WHN	85.7	305	P	10 09 13.0	−0.8
TIA	86.3	311	eP	10 09 16.6	−0.2
BJI	88.8	314	eP	10 09 28.5	−0.3
			epP	10 09 39.0	0.2
GYA	90.1	298	P	10 09 36.0	0.8
			sP	10 09 50.0	0.9
			SKS	10 20 08.0	7.8
			S	10 20 30.0	7.4
			sS	10 20 42.0	1.0
TIY	90.3	310	eP	10 09 36.0	−0.1
			LE	Ms=5.3	20.0 0.65
XAN	91.4	306	eP	10 09 41.0	0.1
HHC	92.3	313	P	10 09 44.2	−1.1
KMI	92.9	296	eP	10 09 49.5	1.3
BTO	93.3	312	eP	10 09 49.0	−0.7
GTA	100.1	308	eP	10 10 21.0	0.1

1986 5 13
O=14 14 55.6 ± 0.15s
LAT=51.44 N ± 4.44km
LONG=173.56 W ± 1.80km
DEPTH= 38 km ± 1.96km
STATIONS USED = 61, STAND DEV= 1.55s
Ms=4.9/ 2,

MDJ	37.8	283	eP	14 22 13.0	2.7
CN2	40.7	284	eP	14 22 34.0	−0.9
SNY	43.0	283	−iP	14 22 54.2	0.9
BJI	48.5	285	eP	14 23 38.0	0.5
TIA	50.4	281	eP	14 23 50.9	−0.8
HHC	50.8	289	eP	14 23 54.2	−0.8
SSE	51.3	273	eP	14 23 59.0	0.6
			epP	14 24 09.0	0.3
NJ2	52.1	276	eP	14 24 06.5	2.1
TIY	52.3	285	P	14 24 07.0	1.0
			eS	14 31 29.0	1.7
			LE	Ms=4.6	14.0 0.24
XAN	56.8	284	eP	14 24 38.4	−1.0
GTA	58.6	295	P	14 24 49.8	−1.7
			LE	Ms=5.2	18.0 0.96
WMQ	62.0	306	P	14 25 15.0	−0.1
CD2	62.1	285	eP	14 25 16.2	0.3
GYA	63.6	280	P	14 25 25.8	0.4
KMI	66.9	282	−P	14 25 48.0	0.7
LSA	70.5	293	P	14 26 09.4	0.0
KSH	71.1	310	eP	14 26 14.0	1.3

1986 5 13
O=14 51 09.5 ± 0.10s
LAT= 9.01 S ± 2.49km
LONG=109.48 W ± 2.56km
DEPTH= 15 km ± 0.53km
STATIONS USED = 9, STAND DEV= 2.72s

GTA	140.0	324	ePKP	15 10 34.8	−4.0		
KMI	145.4	302	ePKP	15 10 51.5	3.1		

1986 5 13
O=17 15 20.6 ± 0.21s
LAT=51.11 N ± 2.66km
LONG=176.41 W ± 1.73km
DEPTH= 32 km ± 1.93km
STATIONS USED = 62, STAND DEV= 1.42s

MDJ	36.1	281	−P	17 22 22.5	0.6		
CN2	39.1	283	−P	17 22 47.8	1.0		
SNY	41.3	281	+P	17 23 06.0	0.8		
DL2	44.2	279	P	17 23 31.8	2.8		
BJI	46.9	284	eP	17 23 51.0	0.7		
TIA	48.7	279	eP	17 24 05.0	0.7		
HHC	49.2	288	P	17 24 08.0	−0.4		
SSE	49.5	271	+P	17 24 11.8	1.3		
			PMZ			1.0	0.027
			pP	17 24 22.0	2.3		
			esS	17 31 32.0	1.6		
BTO	50.3	288	−P	17 24 17.5	0.8		
			eS	17 31 30.0	3.7		
NJ2	50.3	274	eP	17 24 16.0	−0.9		
TIY	50.6	284	eP	17 24 20.5	1.2		
			PMZ			1.0	0.050
WHN	54.2	276	P	17 24 45.0	−0.7		
XAN	55.2	283	P	17 24 52.6	−0.6		
LZH	56.9	288	P	17 25 05.5	−0.1		
GTA	57.1	293	+iP	17 25 06.3	−0.4		
CD2	60.5	284	eP	17 25 30.5	0.0		
WMQ	60.7	304	P	17 25 31.5	−0.8		
GYA	61.8	278	P	17 25 39.6	−0.1		
KMI	65.3	280	+P	17 26 02.0	−0.2		
LSA	68.9	291	P	17 26 26.0	0.3		
KSH	69.9	308	eP	17 26 31.8	0.5		
			eS	17 35 40.0	1.7		

1986 5 13
O=20 41 22.6 ± 0.08s
LAT=10.87 N ± 0.79km
LONG=126.21 E ± 1.28km
DEPTH= 30 km ± 0.58km
STATIONS USED = 13, STAND DEV= 0.82s

SSE	20.7	348	eP	20 46 03.0	0.3		
XAN	28.0	328	P	20 47 11.6	−1.5		
BJI	30.4	345	P	20 47 35.0	0.4		
GTA	36.9	325	P	20 48 30.2	−0.5		

1986 5 13
O=22 00 07.7 ± 0.10s
LAT=32.65 N ± 1.68km
LONG=141.40 E ± 1.81km
DEPTH= 38 km ± 0.57km
STATIONS USED = 90, STAND DEV= 1.58s
Ms=5.8/42, m_B=5.9/29

MDJ	15.1	326	+iP	22 03 40.0	0.1		
			PMZ	m_B=5.7		6.0	1.86
			pP	22 03 47.0	−0.7		
			S	22 06 29.0	3.4		
			sS	22 06 45.0	6.4		
			SS	22 06 52.0	8.6		
			LN	Ms=5.7		16.0	28.0
CN2	16.7	316	+P	22 04 01.0	−0.1		
			PMZ	m_B=5.7		5.0	2.00
			ePP	22 04 14.0	−0.9		
			PPP	22 04 21.0			
			eS	22 06 55.0	−9.7		
			eSS	22 07 19.0	−5.6		
			LE	Ms=5.7		13.0	17.5
SNY	16.9	308	+iP	22 04 03.0	0.3		
			PMZ	m_B=5.9		9.5	5.79
			pP	22 04 12.2	1.4		
			S	22 07 08.5	1.4		
			SMN			12.5	4.24
			LN	Ms=5.7		13.5	12.5
			LE			14.5	16.5
DL2	17.2	297	+P	22 04 09.0	2.0		
			PMZ	m_B=6.0		6.0	4.65
			sP	22 04 21.5	1.4		
			PP	22 04 24.0	2.8		
			LN	Ms=6.1		13.0	12.3
			LE			14.0	50.1
SSE	17.2	270	+iP	22 04 09.0	1.6		
			PMZ	m_B=6.1		7.0	7.15
			pP	22 04 18.0	2.4		
			PP	22 04 24.0	2.3		
			PPP	22 04 32.0			
			eS	22 07 17.0	0.7		
			SMN	m_B=5.6		10.0	2.67
			sS	22 07 30.0	0.7		
			SS	22 07 38.0	0.7		
			LN	Ms=5.7		11.0	12.2
			LE			10.0	5.89
NJ2	19.1	274	+P	22 04 29.0	−0.8		

			sP	22 04 43.5	0.5		
			S	22 08 03.0	6.4		
			LN	Ms=5.9		11.0	21.3
TIA	20.3	287	eP	22 04 42.0	−1.5		
			epP	22 04 51.1	−1.6		
			eS	22 08 31.0	6.4		
			SMN	m_B=6.0		10.0	0.57
			SME			10.0	4.86
			LN	Ms=6.2		12.0	2.96
			LE			15.0	51.0
QZH	21.4	255	+iP	22 04 52.5	−1.9		
			sP	22 05 07.0	−1.4		
			S	22 08 36.0	−7.9		
			sS	22 08 52.0	−8.0		
			LN	Ms=5.3		16.0	0.12
			LE			14.0	5.32
BJI	21.6	297	eP	22 04 55.0	−1.2		
			PMZ	m_B=5.4		9.0	1.68
			eS	22 08 46.0	−2.1		
			SMN	m_B=6.5		10.0	13.5
			SME			7.0	1.85
			LN	Ms=5.8		13.0	13.5
			LE			12.0	6.43
WHN	23.1	272	+iP	22 05 12.0	0.5		
			PMZ	m_B=5.7		7.0	2.19
			sP	22 05 25.0	−0.6		
			eS	22 09 16.0	−0.2		
			sS	22 09 32.0	−0.2		
			LN	Ms=5.8		12.0	8.96
			LE			12.0	9.83
TIY	24.2	290	+iP	22 05 22.0	0.2		
			PMZ	m_B=5.9		8.0	3.55
			pP	22 05 34.0	2.6		
			PPMZ			9.0	3.37
HHC	25.2	297	+P	22 05 31.0	−0.7		
			PMZ	m_B=5.9		6.0	1.86
			PPMZ			8.0	2.16
			S	22 09 56.0	5.1		
			SME	m_B=6.0		12.0	5.78
			LN	Ms=6.1		13.0	16.2
			LE			14.0	19.7
BTO	26.3	297	−iP	22 05 43.0	0.8		
			PMZ	m_B=6.1		7.0	3.00
			pP	22 05 51.0	−0.8		
			PP	22 06 24.0	−0.4		
			S	22 10 09.0	−0.4		
			sS	22 10 25.0	−1.7		
			LN	Ms=6.3		14.0	14.1
			LE			15.0	35.3
GZH	26.5	256	+P	22 05 43.0	−0.8		
			S	22 10 07.0	−5.6		
			LN	Ms=5.8		15.0	7.99
			LE			15.0	9.26
XAN	27.1	282	+P	22 05 48.9	−0.6		
			PMZ	m_B=5.9		8.0	2.01
			sP	22 06 01.5	−2.1		
			PP	22 06 37.0	1.3		
			S	22 10 27.0	4.4		
			LN	Ms=5.9		11.0	6.21
			LE			12.0	10.5
GYA	30.7	268	P	22 06 21.0	−1.2		
			pP	22 06 32.0	0.1		
			PP	22 07 24.0	1.1		
			S	22 11 20.0	−0.5		
			LN	Ms=5.9		17.0	6.80
			LE			17.0	12.0
LZH	31.1	287	P	22 06 24.5	−0.5		
			PMZ	m_B=5.8		6.0	0.90
			PP	22 07 26.0	−1.0		
			S	22 11 25.5	0.0		
			LN	Ms=6.2		14.0	11.1
			LE			14.0	20.0
QZN	31.3	252	eP	22 06 28.0	0.7		
			PP	22 07 40.0	9.4		
			PPMZ			8.5	2.00
			eS	22 11 33.0	2.3		
			sS	22 11 56.0	8.4		
			LN	Ms=5.5		12.0	3.00
			LE			14.0	3.70
CD2	31.9	277	eP	22 06 31.8	−0.8		
			SP	22 06 44.6			
GTA	34.1	293	+iP	22 06 50.6	−0.6		
			PMZ	m_B=5.7		10.0	1.25
			PP	22 08 04.0	−1.1		
			PPMZ			10.0	2.37
			S	22 12 16.4	4.0		
			LE	Ms=6.0		14.0	13.0
KMI	34.5	268	+P	22 06 54.0	−1.2		
			PMZ	m_B=5.6		8.0	0.70
			S	22 12 16.0	−3.4		
			sS	22 12 38.0	0.8		
			LN	Ms=5.8		16.0	8.60
LSA	42.8	280	P	22 08 04.6	0.3		
			eS	22 14 28.5	2.7		
			LE	Ms=5.8		16.0	6.34
WMQ	43.0	301	+iP	22 08 07.0	1.7		
			PMZ			2.5	0.86
			S	22 14 31.0	4.5		
			ScS	22 18 06.0	6.4		
			LN	Ms=6.0		13.0	5.60

			LE			12.0	6.28
KSH	52.3	297	+iP	22 09 19.1	0.7		
			pP	22 09 28.5	−0.1		
			PP	22 11 23.1	6.2		
			S	22 16 40.1	1.6		
			eScS	22 19 02.1	1.2		
			LN	Ms = 6.4		16.0	18.6

1986 5 14
O = 01 56 17.3 ± 0.09s
LAT = 51.51 N ± 2.90km
LONG = 173.42 W ± 1.29km
DEPTH = 33 km ± 1.00km
STATIONS USED = 48, STAND DEV = 1.43s

SNY	43.1	283	−iP	02 04 16.9	0.8		
BJI	48.6	285	eP	02 04 59.5	−0.7		
TIA	50.5	281	eP	02 05 13.3	−1.2		
SSE	51.4	273	eP	02 05 23.3	2.1		
			esP	02 05 36.5	1.9		
BTO	51.9	290	eP	02 05 25.5	−0.2		
NJ2	52.2	276	eP	02 05 28.5	1.2		
TIY	52.3	285	eP	02 05 29.0	0.3		
LZH	58.5	290	+P	02 06 12.0	−1.7		
GTA	58.6	295	+iP	02 06 12.9	−1.2		
WMQ	62.0	306	P	02 06 36.6	−0.9		
CD2	62.2	285	eP	02 06 38.4	−0.2		
GYA	63.6	280	P	02 06 47.6	−0.5		
KMI	67.0	282	eP	02 07 10.0	0.0		
LSA	70.5	293	P	02 07 32.8	0.9		
KSH	71.1	310	eP	02 07 36.0	0.9		

1986 5 14
O = 01 58 29.6 ± 0.08s
LAT = 51.68 N ± 3.39km
LONG = 173.49 W ± 1.48km
DEPTH = 29 km ± 0.68km
STATIONS USED = 77, STAND DEV = 1.43s
Ms = 5.1 / 7,

MDJ	37.8	282	eP	02 05 44.0	−1.3		
			PP	02 07 15.0	0.7		
			eS	02 11 30.0	−4.0		
CN2	40.7	284	+P	02 06 08.0	−1.9		
			ePP	02 07 40.0	−7.1		
			eS	02 12 14.0	−4.5		
SNY	43.0	282	+iP	02 06 29.0	0.7		
			LN	Ms = 5.1		20.0	1.58
			LE			20.0	0.60
DL2	45.9	280	P	02 06 52.0	0.0		
BJI	48.5	285	eP	02 07 13.5	1.1		
			eS	02 14 15.0	3.8		
			LN	Ms = 5.1		21.0	1.42
TIA	50.4	281	+P	02 07 27.2	0.4		
			LE	Ms = 4.8		15.0	0.47
HHC	50.8	289	−P	02 07 29.3	−0.5		
SSE	51.3	273	P	02 07 34.0	0.3		
			PMZ			1.0	0.12
			epP	02 07 44.0	1.5		
			sP	02 07 48.0	1.8		
			eS	02 14 49.0	−0.8		
			sS	02 15 05.0	0.6		
BTO	51.8	290	−P	02 07 38.0	0.2		
			eS	02 14 55.0	−2.3		
			LN	Ms = 5.3		17.0	1.10
			LE			17.0	1.00
NJ2	52.1	276	+P	02 07 39.0	−0.7		
TIY	52.3	285	eP	02 07 42.0	1.1		
			PMZ			1.2	0.12
			eS	02 15 09.5	6.5		
			LE	Ms = 4.9		19.0	0.74
WHN	55.9	277	eP	02 08 07.0	−0.8		
			eS	02 15 49.0	−3.4		
			LE	Ms = 4.8		15.0	0.40
XAN	56.8	284	+P	02 08 13.5	−0.9		
QZH	57.3	270	eP	02 08 15.2	−2.2		
GTA	58.5	295	+iP	02 08 25.0	−1.2		
			LE	Ms = 5.2		16.0	1.02
GZH	61.9	272	eP	02 08 50.0	0.8		
WMQ	61.9	306	P	02 08 49.2	−0.3		
CD2	62.1	285	eP	02 08 51.8	0.9		
GYA	63.6	280	+P	02 09 00.4	−0.1		
			sP	02 09 14.4	1.3		
KMI	66.9	282	eP	02 09 22.0	−0.4		
			pP	02 09 35.0	3.9		
			eS	02 18 16.0	3.3		
QZN	67.1	272	eP	02 09 26.4	3.4		
LSA	70.4	293	+P	02 09 45.7	1.5		
KSH	71.0	310	+P	02 09 48.0	0.8		

1986 5 14
O = 03 04 06.2 ± 0.16s
LAT = 1.48 N ± 2.16km
LONG = 127.07 E ± 2.71km
DEPTH = 77 km ± 0.66km
STATIONS USED = 83, STAND DEV = 1.49s
Ms = 4.6 / 6, m_B = 5.1 / 2

QZN	24.3	317	−P	03 09 17.0	−0.6		
			sP	03 09 41.5	−3.0		
			eS	03 13 30.0	1.8		
			LN	Ms = 4.4		14.0	0.60
QZH	24.7	341	−P	03 09 21.5	−0.4		

		LN	Ms=4.4	8.0	0.29	
GZH	25.3	329	−P	03 09 28.0	0.8	
			S	03 13 50.0	5.8	
			SMN	m_B=5.2	9.0	0.57
SSE	30.0	350	−P	03 10 10.7	0.9	
			PMZ		1.0	0.040
			epP	03 10 28.0	0.4	
WHN	31.3	339	eP	03 10 21.6	−0.1	
NJ2	31.4	347	−P	03 10 22.0	−0.2	
			ScP	03 16 48.0	−0.6	
GYA	31.6	323	P	03 10 24.8	0.1	
KMI	33.2	317	−P	03 10 38.5	0.0	
			pP	03 11 00.0	3.7	
TIA	35.8	346	eP	03 11 00.0	0.0	
XAN	36.6	334	P	03 11 05.8	−1.1	
CD2	36.7	325	eP	03 11 07.0	−0.6	
DL2	37.6	353	eP	03 11 15.0	−0.2	
TIY	38.5	341	−iP	03 11 23.5	0.6	
			PMZ		1.0	0.15
			S	03 17 12.0	0.4	
			LE	Ms=4.6	14.0	0.40
BJI	39.6	347	eP	03 11 33.0	0.7	
			sP	03 12 01.0	0.8	
			eS	03 17 26.5	−3.4	
			SME	m_B=5.1	6.0	0.23
			LE	Ms=4.8	17.0	0.78
SNY	40.3	356	−iP	03 11 37.9	0.2	
LZH	40.6	331	P	03 11 42.0	1.4	
HHC	41.6	342	+iP	03 11 48.2	−0.7	
BTO	41.9	340	P	03 11 51.0	−0.1	
			sP	03 12 18.0	−0.7	
			eS	03 18 05.0	1.4	
CN2	42.2	358	eP	03 11 52.0	−1.1	
MDJ	43.0	3	eP	03 12 01.0	0.9	
LSA	44.2	313	P	03 12 09.6	−0.6	
GTA	45.2	330	−iP	03 12 18.1	0.2	
			PMZ		1.1	0.081
			ScP	03 17 40.0	−0.7	
			eS	03 18 51.5	−0.2	
			ScS	03 22 04.4	0.8	
WMQ	54 8	326	−iP	03 13 30.5	−0.3	
			PMZ		1.5	0.53
			pP	03 13 47.0	−2.7	
			sP	03 14 01.5	2.6	
			S	03 21 06.0	3.2	
			LN	Ms=5.3	20.0	1.66
KSH	59.8	316	−iP	03 14 08.0	1.3	
			eS	03 22 14.0	2.9	
			ScS	03 23 48.0	2.9	

1986 5 14
O=03 28 39.7 ± 0.06s
LAT=51.52 N ± 1.73km
LONG=175.80 W ± 0.76km
DEPTH= 33 km ± 0.59km
STATIONS USED = 38, STAND DEV= 0.92s

SNY	41.6	281	+P	03 36 27.4	0.8
TIA	49.0	279	eP	03 37 25.6	−0.1
SSE	49.9	271	P	03 37 33.5	1.1
WHN	54.5	276	P	03 38 06.5	−0.7
GYA	62.2	278	+P	03 39 00.6	−0.2
KMI	65.6	280	+P	03 39 23.5	0.4
QZN	65.6	270	eP	03 39 24.2	0.8

1986 5 14
O=03 54 23.6 ± 0.08s
LAT=51.41 N ± 3.69km
LONG=173.35 W ± 1.57km
DEPTH= 37 km ± 0.93km
STATIONS USED = 59, STAND DEV= 1.52s
Ms=5.1/ 2,

MDJ	37.9	283	eP	04 01 38.0	−1.7
CN2	40.9	284	eP	04 02 03.4	−0.8
			eS	04 08 16.0	2.9
SNY	43.1	283	+iP	04 02 23.4	0.8
BJI	48.7	286	eP	04 03 07.0	0.3
TIA	50.5	281	eP	04 03 21.0	0.1
			LE	Ms=5.3	14.0	1.18
BTO	52.0	290	eP	04 03 32.5	0.3
NJ2	52.2	276	eP	04 03 34.0	0.4
TIY	52.4	286	eP	04 03 35.8	0.6
LZH	58.6	290	+iP	04 04 20.5	0.3
GTA	58.7	295	+iP	04 04 19.2	−1.4
WMQ	62.1	306	P	04 04 43.5	−0.6
CD2	62.3	286	eP	04 04 45.4	0.4
GYA	63.7	280	P	04 04 54.2	−0.2
KMI	67.1	282	eP	04 05 16.5	0.2
QZN	67.2	272	eP	04 05 16.2	−0.4
KSH	71.2	310	eP	04 05 42.0	0.4

1986 5 14
O=04 02 30.6 ± 0.10s
LAT=51.48 N ± 3.80km
LONG=178.36 W ± 1.77km
DEPTH= 33 km ± 0.83km
STATIONS USED = 73, STAND DEV= 1.41s
Ms=4.9/ 5, m_B=5.6/ 1

MDJ	34.8	280	eP	04 09 19.2	−1.8
CN2	37.8	281	+iP	04 09 45.0	−1.1
SNY	40.0	280	+iP	04 10 05.3	0.7

			sP	04 10 22.0	4.0		
			eS	04 16 10.0	1.6		
			LN	Ms=4.8		32.0	1.08
			LE			32.0	0.91
BJI	45.6	282	eP	04 10 51.0	0.8		
			eS	04 17 30.0	−0.2		
			LE	Ms=4.5		28.0	0.54
HHC	47.9	286	+iP	04 11 08.0	−0.5		
SSE	48.3	269	+P	04 11 11.0	0.0		
			PMZ			1.0	0.15
			csP	04 11 22.0	−2.3		
			PcP	04 12 37.0	−0.4		
BTO	49.0	287	−iP	04 11 18.0	1.2		
			ePP	04 13 09.0	−0.8		
			S	04 18 21.0	3.9		
NJ2	49.1	272	+P	04 11 16.5	−0.8		
			LN	Ms=5.0		11.0	0.50
TIY	49.4	282	+iP	04 11 20.5	1.0		
			PMZ			1.0	0.10
			sP	04 11 37.0	4.4		
			PP	04 13 18.5	5.3		
WHN	52.9	274	+P	04 11 45.0	−1.4		
			PMZ			1.0	0.18
XAN	53.9	281	eP	04 11 53.0	−0.8		
QZH	54.2	266	+P	04 11 55.5	−0.5		
			LN	Ms=4.9		14.0	0.47
LZH	55.6	286	P	04 12 06.5	0.1		
GZH	58.9	269	+P	04 12 29.0	−0.1		
CD2	59.2	282	P	04 12 31.8	0.1		
WMQ	59.5	303	P	04 12 33.0	−0.8		
GYA	60.6	276	+P	04 12 40.6	−0.5		
			S	04 20 53.0	0.7		
			sS	04 21 09.0	−0.2		
KMI	64.0	278	+iP	04 13 03.5	−0.4		
QZN	64.0	268	P	04 13 03.8	−0.2		
LSA	67.7	290	+P	04 13 25.8	−1.9		
KSH	68.7	307	eP	04 13 36.0	2.2		

1986 5 14
O=04 30 23.4 ± 0.20s
LAT=17.26 S ± 2.31km
LONG= 65.82 W ± 2.90km
DEPTH= 23 km ± 1.66km
STATIONS USED = 16, STAND DEV= 3.07s

WMQ	145.3	35	P	04 49 59.5	−1.3		
GTA	154.6	27	P	04 50 22.8	7.7		

1986 5 14
O=04 32 30.9 ± 0.07s
LAT=32.22 N ± 1.27km
LONG=141.79 E ± 1.44km
DEPTH= 36 km ± 0.43km
STATIONS USED = 30, STAND DEV= 1.23s
Ms=4.4/ 2,

MDJ	15.6	326	eP	04 36 13.5	3.3		
CN2	17.3	317	eP	04 36 29.0	−2.1		
SNY	17.4	309	−iP	04 36 34.6	2.0		
SSE	17.6	272	eP	04 36 35.0	0.0		
			pP	04 36 44.0	1.0		
			sS	04 40 01.0	0.8		
			SS	04 40 11.0	1.9		
			LN	Ms=4.3		14.0	0.70
BJI	22.1	298	eP	04 37 23.0	−1.5		
BTO	26.8	297	eP	04 38 09.4	−0.6		
GYA	31.1	269	eP	04 38 49.0	0.7		
GTA	34.5	294	P	04 39 17.0	−1.6		
WMQ	43.5	302	P	04 40 34.0	1.2		

1986 5 14
O=04 36 19.1 ± 0.06s
LAT=23.43 S ± 2.70km
LONG=179.76 E ± 2.73km
DEPTH=544 km ± 2.26km
STATIONS USED = 14, STAND DEV= 1.42s

CN2	83.4	324	eP	04 47 50.0	−0.9		
TIY	87.7	313	+iP	04 48 12.9	1.1		
KMI	88.8	298	eP	04 48 19.0	1.7		

1986 5 14
O=05 35 13.6 ± 0.05s
LAT=27.61 N ± 0.84km
LONG=140.58 E ± 1.25km
DEPTH=255 km ± 0.23km
STATIONS USED = 18, STAND DEV= 1.19s

SNY	19.9	320	+iP	05 39 29.0	2.0		
LZH	32.2	295	P	05 41 20.0	−0.2		

1986 5 14
O=07 59 48.1 ± 0.07s
LAT=51.54 N ± 2.56km
LONG=173.51 W ± 1.37km
DEPTH= 33 km ± 0.80km
STATIONS USED = 59, STAND DEV= 1.08s

MDJ	37.8	282	eP	08 07 06.0	2.4		
CN2	40.7	284	+P	08 07 26.0	−2.1		
SNY	43.0	283	+iP	08 07 47.2	0.6		
BJI	48.6	285	eP	08 08 31.0	0.3		
TIA	50.4	281	eP	08 08 44.6	−0.4		
SSE	51.3	273	eP	08 08 53.0	1.3		
			epP	08 09 02.0	0.9		

			sP	08 09 07.5	2.5
BTO	51.9	290	eP	08 09 00.0	3.9
NJ2	52.1	276	eP	08 08 56.8	−1.0
TIY	52.3	285	P	08 09 00.2	1.0
LZH	58.5	290	P	08 09 44.5	0.3
GTA	58.5	295	+iP	08 09 43.5	−1.1
WMQ	62.0	306	eP	08 10 07.5	−0.6
CD2	62.2	285	eP	08 10 09.4	0.2
GYA	63.6	280	P	08 10 18.8	0.1
KMI	67.0	282	eP	08 10 41.0	0.5
LSA	70.5	293	P	08 11 03.5	1.0
KSH	71.0	310	eP	08 11 05.0	−0.7

1986 5 14
O = 08 17 45.6 ± 0.08s
LAT = 24.98 N ± 0.79km
LONG = 122.33 E ± 1.17km
DEPTH = 26 km ± 1.01km
STATIONS USED = 8, STAND DEV = 1.97s
M_L = 2.6 / 1,

SSE	6.2	351	ePn	08 19 15.5	−0.2

1986 5 14
O = 11 10 21.7 ± 0.12s
LAT = 22.99 S ± 3.88km
LONG = 114.95 W ± 3.12km
DEPTH = 1 km ± 0.79km
STATIONS USED = 15, STAND DEV = 2.56s

LZH	144.1	300	ePKP	11 29 56.5	−3.9
KMI	145.6	281	ePKP	11 30 02.0	−1.2
GTA	146.3	307	PKP	11 30 04.5	0.2
WMQ	152.1	323	ePKP	11 30 19.0	5.6

1986 5 14
O = 12 24 22.8 ± 0.10s
LAT = 20.64 S ± 1.55km
LONG = 178.71 W ± 1.34km
DEPTH = 615 km ± 1.28km
STATIONS USED = 36, STAND DEV = 1.09s

NJ2	79.5	310	+P	12 35 29.2	0.5
MDJ	80.2	325	+iP	12 35 33.5	0.6
CN2	82.0	323	+P	12 35 41.4	−0.4
GYA	86.1	300	P	12 36 02.8	0.6
TIY	86.9	312	eP	12 36 06.6	1.0
GTA	96.5	310	eP	12 36 49.5	−0.5

1986 5 14
O = 13 28 32.4 ± 0.07s
LAT = 51.07 N ± 0.69km
LONG = 176.33 W ± 0.53km
DEPTH = 40 km ± 0.62km
STATIONS USED = 15, STAND DEV = 0.88s

LZH	57.0	288	P	13 38 17.0	0.0
GTA	57.1	293	P	13 38 17.2	−0.9

1986 5 14
O = 13 56 09.5 ± 0.08s
LAT = 14.82 S ± 0.91km
LONG = 167.30 E ± 1.13km
DEPTH = 143 km ± 0.40km
STATIONS USED = 42, STAND DEV = 0.96s

SSE	63.6	316	e	14 07 03.0	−0.7
CN2	69.7	329	+P	14 07 05.0	−1.6
GYA	71.8	305	−P	14 07 19.6	0.5
BJI	72.4	321	eP	14 07 22.5	0.2
TIY	73.3	317	P	14 07 28.6	0.4
CD2	76.1	308	eP	14 07 44.5	0.7
LZH	78.4	312	eP	14 07 57.0	0.2
GTA	82.8	314	P	14 08 20.0	0.2
WMQ	92.8	315	P	14 09 08.0	0.0

1986 5 14
O = 16 44 23.5 ± 0.05s
LAT = 25.78 N ± 0.32km
LONG = 98.75 E ± 0.59km
DEPTH = 19 km ± 0.20km
STATIONS USED = 8, STAND DEV = 1.53s
M_L = 3.4 / 3,

KMI	3.7	99	Sg	16 46 18.0	−0.9
CD2	6.7	40	P*	16 46 14.2	−0.8

1986 5 14
O = 17 11 47.9 ± 0.10s
LAT = 37.40 N ± 2.14km
LONG = 140.68 E ± 1.90km
DEPTH = 112 km ± 1.31km
STATIONS USED = 53, STAND DEV = 2.01s

MDJ	11.0	314	eP	17 14 23.5	−0.4		
CN2	13.2	304	eP	17 14 58.0	5.5		
DL2	15.1	282	eP	17 15 20.0	3.7		
SSE	17.3	254	eP	17 15 43.5	−0.3		
			PMZ			1.0	0.054
NJ2	18.7	260	eP	17 15 59.4	−0.9		
TIA	18.9	274	eP	17 16 00.0	−2.4		
BJI	19.3	285	eP	17 16 04.5	−2.1		
TIY	22.4	279	eP	17 16 36.0	−1.8		
HHC	22.8	288	eP	17 16 39.4	−2.7		
WHN	22.8	260	P	17 16 44.0	1.7		
BTO	24.0	287	eP	17 16 54.0	0.5		
LZH	29.4	279	eP	17 17 44.0	0.3		

GYA	30.7	259	+P	17 17 55.0	0.1	
CD2	31.1	269	eP	17 17 59.0	0.8	
GTA	31.9	286	eP	17 18 04.0	−1.3	
KMI	34.4	260	+iP	17 18 28.2	0.9	
WMQ	40.2	296	P	17 19 17.5	2.5	

1986 5 14
O=20 19 12.9 ± 0.13s
LAT=51.30 N ± 0.98km
LONG=175.77 W ± 0.72km
DEPTH= 40 km ± 1.11km
STATIONS USED = 21, STAND DEV= 1.03s

MDJ	36.5	281	eP	20 26 15.5	−0.8	
SNY	41.7	281	−P	20 27 00.6	1.0	
TIY	51.0	284	P	20 28 14.1	0.8	
GTA	57.4	294	P	20 28 58.5	−1.7	
CD2	60.8	284	eP	20 29 24.3	0.0	
GYA	62.2	278	P	20 29 33.4	−0.2	

1986 5 14
O=22 53 58.4 ± 0.16s
LAT=14.60 S ± 2.77km
LONG=175.41 W ± 3.46km
DEPTH= 35 km ± 0.29km
STATIONS USED = 29, STAND DEV= 2.91s

CN2	79.2	321	eP	23 06 02.0	−0.5	
SNY	79.4	318	eP	23 06 03.7	0.4	
BJI	83.5	314	eP	23 06 25.0	0.1	
TIY	85.3	311	eP	23 06 35.0	1.3	
KMI	88.9	296	−P	23 06 54.0	2.3	

1986 5 15
O=03 30 08.9 ± 0.04s
LAT=51.35 N ± 1.57km
LONG=175.56 W ± 0.83km
DEPTH= 34 km ± 0.25km
STATIONS USED = 25, STAND DEV= 1.09s

BJI	47.4	284	eP	03 38 42.5	0.5	
TIY	51.1	284	+P	03 39 12.3	1.5	
CD2	61.0	284	P	03 40 22.2	0.5	
GYA	62.3	278	P	03 40 31.0	0.0	

1986 5 15
O=04 14 44.0 ± 0.12s
LAT=41.35 N ± 1.41km
LONG= 97.36 E ± 1.25km
DEPTH= 6 km ± 0.61km
STATIONS USED = 10, STAND DEV= 3.49s
M_L=4.1 / 6,

GTA	2.7	135	+iPn	04 15 25.6	−2.9		
			iPg	04 15 28.3	−3.4		
			Sg	04 16 01.8	−6.8		
WMQ	7.5	292	cPn	04 16 39.0	4.0		
			Sg	04 18 38.8	−1.5		
			SMN	M_L=4.1		0.8	0.042
			SME			1.0	0.087

1986 5 15
O=06 38 36.7 ± 0.14s
LAT=52.47 N ± 4.04km
LONG=174.68 W ± 2.35km
DEPTH= 30 km ± 0.54km
STATIONS USED = 76, STAND DEV= 2.29s
Ms=6.5 / 40, m_B=5.9 / 5

MDJ	36.9	281	P	06 45 50.0	5.0		
			PMZ	m_B=6.0		8.0	2.35
			PP	06 47 11.0	0.2		
			S	06 51 31.0	4.3		
			SS	06 54 00.0	4.0		
			LN	Ms=6.2		20.0	24.8
CN2	39.8	282	−P	06 46 09.0	−0.5		
			eS	06 52 09.0	−3.2		
			eSS	06 54 53.0	−8.5		
			LN	Ms=6.4		19.0	36.4
SNY	42.1	281	−iP	06 46 29.0	0.8		
			PMZ			22.0	1.86
			PP	06 48 06.0	−2.9		
			PPMZ			15.0	1.76
			PcP	06 48 28.0	5.5		
			S	06 52 42.0	−2.8		
			SMN			30.0	16.4
			SME			28.0	12.2
			ScS	06 56 22.5	−2.9		
			LN	Ms=6.4		16.0	16.6
			LE			19.0	21.3
DL2	45.1	279	cP	06 46 52.8	0.6		
			S	06 53 31.0	3.0		
			LN	Ms=6.5		18.0	22.1
			LE			18.0	23.3
BJI	47.6	284	eP	06 47 14.5	2.1		
			cPP	06 49 04.0	1.3		
			eS	06 54 10.0	4.6		
			eSS	06 57 32.0	5.2		
			LN	Ms=6.4		17.0	23.6
TIA	49.5	279	eP	06 47 25.0	−2.3		
			eS	06 54 35.0	2.7		
			LN	Ms=6.3		20.0	3.74
			LE			20.0	17.6
HHC	49.8	288	eP	06 47 30.4	0.8		
			S	06 54 35.0	−0.1		

			PS	06 54 41.5			
			LN	Ms=6.5		16.0	7.02
			LE			17.0	25.1
SSE	50.5	271	eP	06 47 33.0	−2.0		
			PMZ			1.6	0.13
			pP	06 47 43.0	−0.8		
			sP	06 47 47.0	−0.5		
			S	06 54 40.0	−5.1		
			PS	06 54 53.0			
			sS	06 54 58.0	−3.0		
			ScS	06 57 20.0	0.2		
			SS	06 58 10.0	−6.6		
			LN	Ms=6.4		22.0	26.9
BTO	50.9	288	P	06 47 38.5	0.8		
			PP	06 49 34.0	0.0		
			S	06 54 48.0	−1.8		
			SS	06 58 14.0	−8.3		
			LN	Ms=6.5		17.0	3.44
			LE			17.0	24.8
NJ2	51.3	274	+P	06 47 40.0	−0.7		
			S	06 54 50.0	−5.6		
			LN	Ms=6.5		18.0	24.4
WHN	55.1	276	eP	06 48 07.5	−1.4		
			eS	06 55 40.0	−8.4		
			LN	Ms=6.5		20.0	21.0
			LE			20.0	13.0
XAN	55.9	283	eP	06 48 18.0	3.0		
			eS	06 56 05.0	5.4		
			LN	Ms=6.6		16.0	6.70
			LE			19.0	28.8
QZH	56.6	268	eP	06 48 17.0	−2.4		
			S	06 56 09.0	2.5		
			LN	Ms=6.3		27.0	22.0
LZH	57.5	288	P	06 48 26.5	0.2		
			eS	06 56 17.0	−3.5		
			LN	Ms=6.8		17.0	37.8
			LE			16.0	12.4
GTA	57.5	294	P	06 48 26.0	−0.3		
			PMZ			20.0	1.21
			eS	06 56 16.0	−4.5		
			LE	Ms=6.7		16.0	29.3
WMQ	60.9	305	eP	06 48 49.6	0.1		
			PP	06 51 03.5	−1.3		
			S	06 57 04.0	1.5		
			LN	Ms=6.9		18.0	48.5
GZH	61.1	271	+P	06 48 57.5	6.3		
			S	06 57 10.0	3.9		
			LN	Ms=6.5		17.0	5.75
			LE			17.0	17.6
CD2	61.2	284	eP	06 48 53.7	1.8		

			eS	06 57 08.0	−0.5		
			LN	Ms=6.7		20.0	19.5
			LE			18.0	26.0
GYA	62.7	279	P	06 49 02.8	0.8		
			S	06 57 29.5	3.5		
			LN	Ms=6.4		19.0	10.8
			LE			19.0	10.4
KMI	66.1	280	eP	06 49 25.0	1.1		
			eS	06 58 09.0	−0.2		
			SME	m_B=5.8		8.0	0.90
			LN	Ms=6.5		20.0	17.2
QZN	66.3	271	eP	06 49 27.5	2.2		
			cPP	06 51 56.0	3.2		
			eS	06 58 10.0	−1.8		
			sS	06 58 29.0	2.2		
			LN	Ms=6.3		17.0	4.50
			LE			16.0	8.80
LSA	69.4	292	P	06 49 39.2	−6.0		
			LN	Ms=6.5		21.0	13.8
			LE			19.0	11.3
KSH	69.9	309	eP	06 49 49.7	2.0		
			cPP	06 52 27.7	4.5		
			eS	06 58 59.7	4.9		
			LE	Ms=6.9		14.0	28.8

1986 5 15

O=06 41 10.6 ± 0.36s
LAT=36.28 N ± 3.25km
LONG=141.45 E ± 6.08km
DEPTH= 32 km ± 0.90km
STATIONS USED = 24, STAND DEV= 2.53s

TIA	19.6	277	eP	06 45 37.8	−1.6
BJI	20.2	288	P	06 45 44.5	−1.2
TIY	23.2	282	eP	06 46 30.2	14.9
LZH	30.2	281	eP	06 47 21.5	0.3
GYA	31.1	262	P	06 47 29.4	0.3
GTA	32.8	288	P	06 47 44.8	0.8
			iS	06 53 00.0	1.6
WMQ	41.2	298	eP	06 48 49.6	−5.1

1986 5 15

O=06 42 30.6 ± 0.21s
LAT=51.89 N ± 4.58km
LONG=174.65 W ± 2.00km
DEPTH= 13 km ± 1.58km
STATIONS USED = 12, STAND DEV= 3.72s

SSE	50.6	272	eP	06 51 36.3	4.6
QZN	66.4	271	eP	06 53 25.8	3.8

1986 5 15

O=08 18 48.3 ± 0.20s
LAT=52.46 N ± 4.76km
LONG=174.60 W ± 2.62km
DEPTH= 32 km ± 0.12km
STATIONS USED = 42, STAND DEV= 2.64s

MDJ	36.9	281	eP	08 26 01.0	4.3	
CN2	39.9	282	eP	08 26 21.4	0.2	
SNY	42.1	281	+P	08 26 43.3	3.5	
BJI	47.7	284	P	08 27 24.0	0.0	
SSE	50.6	271	eP	08 27 47.0	0.4	
TIY	51.4	284	eP	08 27 57.2	4.4	
WHN	55.2	276	eP	08 28 27.0	6.5	
GTA	57.6	294	P	08 28 36.8	−1.1	
LZH	57.6	288	eP	08 28 35.5	−2.4	
WMQ	60.9	305	eP	08 29 02.0	1.0	
CD2	61.3	284	eP	08 29 06.6	3.2	
GYA	62.8	279	P	08 29 13.0	−0.5	

1986 5 15
O=09 34 04.3 ± 0.13s
LAT=52.19 N ± 4.48km
LONG=174.34 W ± 2.19km
DEPTH= 33 km ± 0.74km
STATIONS USED = 60, STAND DEV= 2.44s
Ms=5.5 / 14,

MDJ	37.2	281	eP	09 41 14.2	−0.1		
			eS	09 46 58.0	−0.5		
			SS	09 49 23.0	−5.9		
CN2	40.1	283	−P	09 41 38.0	−0.8		
			eS	09 47 37.0	−6.0		
SNY	42.4	281	−iP	09 41 58.6	1.2		
			eS	09 48 19.0	2.5		
			LN	Ms=5.4		13.0	1.26
			LE			15.0	1.89
BJI	47.9	284	eP	09 42 43.0	1.4		
			eS	09 49 36.0	0.0		
			LN	Ms=5.5		19.0	3.14
TIA	49.8	280	eP	09 43 02.2	5.9		
			LE	Ms=5.5		14.0	1.97
SSE	50.8	272	eP	09 43 05.0	1.3		
			PMZ			1.6	0.092
			pP	09 43 15.0	1.9		
			eS	09 50 14.0	−2.0		
			LN	Ms=5.2		15.0	1.24
TIY	51.6	284	eP	09 43 12.8	2.5		
WHN	55.3	277	eP	09 43 37.2	−0.5		
LZH	57.8	289	eP	09 43 53.5	−1.9		
GTA	57.8	294	P	09 43 51.8	−3.7		
			LE	Ms=5.6		15.0	2.26
WMQ	61.2	305	P	09 44 18.5	−0.3		
			LN	Ms=5.9		20.0	5.41
CD2	61.5	284	eP	09 44 22.5	1.7		
			S	09 52 36.0	−1.4		
			LE	Ms=5.8		17.0	3.68
GYA	63.0	279	P	09 44 31.0	0.3		
QZN	66.5	271	eP	09 44 55.1	1.4		
			eS	09 53 39.0	−2.2		
			LN	Ms=5.6		16.0	0.90
			LE			17.0	1.70
LSA	69.7	292	eP	09 45 15.0	0.9		

1986 5 15
O=10 42 25.8 ± 0.13s
LAT= 2.28 N ± 1.58km
LONG=126.72 E ± 2.36km
DEPTH= 60 km ± 0.78km
STATIONS USED = 59, STAND DEV= 1.86s
Ms=4.5 / 4,

QZN	23.5	316	eP	10 47 30.0	−0.9		
			eS	10 51 36.0	−0.1		
GZH	24.4	329	−P	10 47 41.0	0.9		
SSE	29.1	350	eP	10 48 24.6	1.0		
			epP	10 48 31.7	−5.8		
			eS	10 53 16.0	6.5		
			LN	Ms=4.5		28.0	1.04
WHN	30.5	339	P	10 48 38.0	2.7		
NJ2	30.5	347	+P	10 48 39.8	3.8		
GYA	30.8	323	P	10 48 39.0	0.4		
TIA	34.9	346	eP	10 49 12.0	−2.1		
CD2	35.8	325	eP	10 49 21.0	−0.8		
DL2	36.7	353	eP	10 49 30.8	1.2		
TIY	37.6	341	eP	10 49 35.4	−1.7		
BJI	38.8	347	eP	10 49 47.0	0.4		
SNY	39.5	356	eP	10 49 52.7	0.4		
LZH	39.7	330	P	10 49 55.0	0.2		
CN2	41.4	359	eP	10 50 09.6	1.7		
MDJ	42.2	3	eP	10 50 16.5	1.4		
LSA	43.4	313	P	10 50 24.2	−0.9		
GTA	44.3	330	P	10 50 31.2	−1.1		
			LE	Ms=4.8		26.0	1.02
WMQ	53.9	326	P	10 51 46.0	0.0		
KSH	59.0	316	eP	10 52 25.5	2.9		
			eS	11 00 31.5	8.5		

1986 5 15
O=14 38 08.7 ± 0.12s
LAT=29.66 N ± 2.06km
LONG= 69.41 E ± 2.19km
DEPTH= 17 km ± 0.28km
STATIONS USED = 86, STAND DEV= 1.86s

Ms=5.5/33,			m_B=5.8/ 4				
KSH	11.2	27	−P	14 40 51.0	−0.2		
			eS	14 42 51.0	−5.9		
			LE	Ms=5.8•		8.0	28.5
LSA	18.9	84	P	14 42 28.4	−3.3		
			S	14 45 49.6	−8.0		
			LE	Ms=5.2		10.0	3.50
WMQ	20.3	41	P	14 42 46.5	−0.5		
			S	14 46 24.0	−4.4		
			LN	Ms=5.2		16.0	5.94
GTA	26.8	61	P	14 43 50.4	0.2		
			LN	Ms=5.3		12.0	3.17
LZH	29.5	68	P	14 44 15.0	−0.1		
			eS	14 49 08.0	−0.1		
			LN	Ms=5.3		11.0	2.50
CD2	29.6	79	eP	14 44 15.8	−0.1		
			eS	14 49 08.6	−0.9		
			LN	Ms=5.9		13.0	9.69
			LE			8.0	2.40
KMI	29.9	91	+P	14 44 19.0	0.7		
			pP	14 44 29.0	4.4		
			S	14 49 17.0	4.4		
			LN	Ms=5.5		10.0	3.70
GYA	32.9	86	P	14 44 45.0	−0.2		
			S	14 50 01.0	0.4		
			LN	Ms=5.5		13.0	4.30
			LE			13.0	0.90
XAN	33.7	72	eP	14 44 50.7	−1.0		
			eS	14 50 09.0	−4.4		
			LN	Ms=5.6		18.0	7.21
BTO	34.7	61	P	14 45 00.5	0.2		
			eS	14 50 25.0	−3.8		
			LN	Ms=5.2		12.0	1.50
			LE			12.0	1.00
HHC	35.9	60	eP	14 45 11.4	1.0		
			eS	14 50 45.0	−2.3		
			LN	Ms=5.4		12.0	1.19
			LE			12.0	2.26
TIY	36.4	66	eP	14 45 15.5	0.4		
			S	14 51 02.5	7.8		
			LN	Ms=5.5		16.5	4.65
QZN	38.2	97	eP	14 45 31.8	2.3		
			eS	14 51 23.0	1.1		
			SS	14 54 06.0	7.0		
			LN	Ms=5.2		16.0	1.50
			LE			14.0	1.00
WHN	38.7	77	eP	14 45 34.5	0.6		
			eS	14 51 32.0	2.0		
			LN	Ms=5.8		12.0	4.42
			LE			11.0	2.32
BJI	39.4	62	eP	14 45 40.5	1.0		
			eS	14 51 40.5	0.4		
			LN	Ms=5.5		21.0	4.24
GZH	39.7	89	P	14 45 42.5	0.0		
			S	14 51 45.0	0.4		
			SS	14 54 40.0	6.7		
			LN	Ms=5.3		20.0	2.83
TIA	40.3	68	+P	14 45 47.6	0.7		
			LN	Ms=5.5		19.0	3.79
			LE			11.0	0.93
NJ2	42.2	74	+P	14 46 03.9	0.8		
			LN	Ms=5.7		10.0	3.30
DL2	43.6	63	eP	14 46 17.2	2.8		
SSE	44.4	75	eP	14 46 21.4	1.0		
			sP	14 46 35.0	4.8		
			eS	14 52 56.0	2.2		
			esS	14 53 07.0	2.1		
			LN	Ms=5.4		12.0	1.90
SNY	44.9	59	eP	14 46 25.4	0.3		
			SS	14 56 16.0	1.2		
			LN	Ms=5.4		15.0	1.64
			LE			15.0	1.66
CN2	46.2	56	eP	14 46 39.0	3.5		
			eS	14 53 23.0	2.1		
MDJ	49.2	55	eP	14 46 56.5	−2.0		

1986 5 16

O=06 02 06.3 ± 0.12s
LAT=47.39 N ± 3.74km
LONG=153.89 E ± 2.41km
DEPTH= 30 km ± 0.64km
STATIONS USED = 37, STAND DEV= 1.77s

MDJ	17.1	270	eP	06 06 04.5	−0.2	
CN2	20.2	270	eP	06 06 44.5	3.3	
			eS	06 10 26.0	4.5	
SNY	22.2	267	eP	06 07 01.4	−0.4	
DL2	24.9	262	eP	06 07 29.0	1.0	
TIY	31.7	268	eP	06 08 30.5	0.6	
XAN	36.1	265	+P	06 09 08.0	0.2	
GTA	39.4	279	P	06 09 36.2	0.7	
CD2	41.5	265	+iP	06 09 53.6	1.1	
			PMZ		1.0	0.070
WMQ	45.2	291	P	06 10 22.1	−0.7	
KMI	45.9	260	eP	06 10 28.5	0.1	

1986 5 16

O=08 16 52.6 ± 0.13s
LAT=28.31 N ± 3.02km
LONG=140.61 E ± 2.55km
DEPTH= 27 km ± 0.93km

STATIONS USED = 42, STAND DEV= 2.41s
Ms=4.3/11, m_B=5.4/21

SSE	17.1	284	+P	08 20 53.0	1.4		
			PMZ	m_B=5.2		7.0	0.80
			esP	08 21 06.0	3.3		
			esS	08 24 11.0	0.4		
			eSS	08 24 20.0	−0.2		
			LE	Ms=4.4		7.0	0.47
MDJ	18.5	335	eP	08 21 09.0	0.0		
DL2	19.0	309	P	08 21 16.0	1.1		
			PMZ	m_B=5.5		5.0	1.09
			S	08 24 42.0	0.3		
			SME	m_B=5.4		7.0	1.09
NJ2	19.2	287	−P	08 21 18.0	1.0		
			PMZ	m_B=5.8		5.0	2.20
			LN	Ms=4.7		10.0	1.20
SNY	19.4	319	−P	08 21 15.0	−4.0		
			pP	08 21 24.0	−2.0		
			eS	08 24 43.0	−7.5		
			LE	Ms=4.3		11.0	0.55
CN2	19.7	326	+P	08 21 18.0	−4.7		
QZH	20.0	265	eP	08 21 20.5	−5.3		
			eS	08 25 05.5	1.4		
TIA	21.3	298	eP	08 21 38.7	−1.3		
			eS	08 25 36.0	5.2		
			SME	m_B=5.4		6.0	0.79
WHN	23.0	282	P	08 21 58.0	1.7		
			PMZ	m_B=5.7		5.0	1.74
			eS	08 26 04.0	3.3		
			SME	m_B=5.4		8.0	0.99
BJI	23.3	307	eP	08 21 59.0	−0.3		
			PMZ	m_B=5.2		6.0	0.64
			eS	08 26 11.0	4.7		
			eSS	08 27 02.0	9.9		
			SMN	m_B=5.3		8.0	0.71
			SME			10.0	0.67
			LN	Ms=4.2		12.0	0.34
GZH	25.1	264	eP	08 22 20.0	3.2		
			sS	08 26 55.0	4.5		
TIY	25.3	299	eP	08 22 20.2	0.9		
			PMZ	m_B=5.7		5.0	1.03
			S	08 26 49.0	8.2		
			LN	Ms=4.2		11.0	0.25
HHC	26.9	305	P	08 22 31.0	−2.5		
			SME	m_B=5.1		10.0	0.46
XAN	27.6	290	eP	08 22 36.2	−4.3		
			S	08 27 26.0	7.7		
BTO	27.9	304	−P	08 22 43.0	0.0		
			eS	08 27 21.0	−2.6		
GYA	30.1	275	P	08 23 03.6	0.6		
			S	08 27 54.0	−4.3		
CD2	32.1	284	eP	08 23 18.7	−1.1		
			S	08 28 26.0	−2.3		
GTA	35.4	299	+P	08 23 48.4	−0.2		
			PMZ	m_B=5.4		5.0	0.35
			eS	08 29 21.0	0.0		
			SME	m_B=5.0		7.0	0.22
			LE	Ms=4.4		11.0	0.25

1986 5 16
O=09 48 57.3 ± 0.11s
LAT=36.32 N ± 1.43km
LONG= 71.30 E ± 1.46km
DEPTH= 95 km ± 0.95km
STATIONS USED = 15, STAND DEV= 2.74s

KSH	4.8	48	eP	09 50 14.0	4.4		
			S	09 51 09.0	4.4		
			LN			4.0	1.80
WMQ	14.6	54	eP	09 52 22.0	1.4		
GTA	22.7	74	+P	09 53 55.0	3.2		

1986 5 16
O=09 56 27.0 ± 0.17s
LAT=13.97 N ± 1.47km
LONG=144.95 E ± 2.04km
DEPTH=164 km ± 1.88km
STATIONS USED = 53, STAND DEV= 1.83s

SSE	27.7	312	P	10 02 01.8	−0.3		
			PMZ			1.2	0.040
			epP	10 02 31.0	−4.6		
			sS	10 07 24.0	−6.0		
			eSS	10 08 02.0	−3.0		
			LN			14.0	0.70
NJ2	29.9	311	eP	10 02 21.2	−0.5		
DL2	32.3	325	eP	10 02 42.0	−0.5		
WHN	32.6	305	eP	10 02 44.5	−1.2		
BJI	36.2	321	eP	10 03 15.5	−0.5		
TIY	37.3	315	P	10 03 25.9	0.5		
			LN			13.0	0.24
GYA	37.9	295	P	10 03 31.6	1.4		
XAN	38.2	308	−iP	10 03 33.8	0.8		
HHC	39.5	319	eP	10 03 42.4	−1.6		
BTO	40.4	318	eP	10 03 51.0	−0.1		
			eS	10 09 50.0	2.9		
KMI	41.1	292	eP	10 03 58.5	1.3		
CD2	41.4	301	eP	10 03 59.2	0.3		
LZH	42.8	308	−iP	10 04 12.5	1.4		
GTA	47.0	311	+P	10 04 44.0	0.1		
			LN			22.0	0.40
WMQ	56.9	313	P	10 05 58.0	0.1		

1986 5 16
O=15 47 10.8 ± 0.13s
LAT=13.03 N ± 1.13km
LONG=143.27 E ± 0.77km
DEPTH=214 km ± 1.19km
STATIONS USED = 24, STAND DEV= 1.44s

BJI	35.9	323	eP	15 53 53.0	0.1	
XAN	37.5	310	P	15 54 06.6	0.3	

1986 5 16
O=15 59 48.9 ± 0.07s
LAT=51.89 N ± 3.39km
LONG=175.29 W ± 1.42km
DEPTH= 31 km ± 0.77km
STATIONS USED = 64, STAND DEV= 1.81s
Ms=4.7/ 2,

MDJ	36.6	281	eP	16 06 57.0	2.2	
CN2	39.6	282	−P	16 07 19.4	−0.1	
SNY	41.8	281	+iP	16 07 39.0	1.0	
			S	16 13 57.0	4.1	
			LN	Ms=4.9	27.0	1.03
			LE		27.0	0.74
DL2	44.8	279	P	16 08 02.4	0.4	
BJI	47.4	284	eP	16 08 23.5	0.9	
			eS	16 15 17.0	3.0	
TIA	49.3	279	+P	16 08 37.3	0.2	
SSE	50.2	271	+P	16 08 45.2	1.0	
			PMZ		0.8	0.070
			epP	16 08 55.0	1.7	
			eS	16 15 52.0	−1.1	
BTO	50.7	288	eP	16 08 49.0	0.7	
			eS	16 16 00.0	−0.6	
NJ2	51.0	274	+P	16 08 49.8	−0.4	
TIY	51.1	284	−P	16 08 53.1	1.6	
WHN	54.8	276	+P	16 09 18.0	−0.6	
XAN	55.7	283	eP	16 09 24.7	−0.6	
LZH	57.3	288	eP	16 09 37.0	−0.1	
GTA	57.4	294	P	16 09 36.2	−1.3	
WMQ	60.9	305	P	16 10 01.0	−0.6	
CD2	61.0	284	eP	16 10 03.1	0.8	
GYA	62.4	278	+P	16 10 12.4	0.4	
KMI	65.8	280	+P	16 10 34.5	0.3	
QZN	66.0	270	P	16 10 36.6	1.7	

1986 5 16
O=16 51 11.3 ± 0.08s
LAT=47.33 N ± 2.24km
LONG=154.03 E ± 1.50km
DEPTH= 22 km ± 0.26km

STATIONS USED = 84, STAND DEV= 1.23s
Ms=5.8/43, m_B=5.8/22

MDJ	17.2	270	+iP	16 55 12.0	0.1	
			PMZ	m_B=5.7	10.0	3.36
			pP	16 55 18.0	−0.1	
			sP	16 55 22.0	−0.1	
			S	16 58 16.0	−4.6	
			SS	16 58 38.0	−3.6	
			LE	Ms=5.7	14.0	21.4
CN2	20.3	271	+P	16 55 44.0	−4.4	
			PMZ	m_B=5.7	12.0	4.00
			pP	16 55 51.0	−4.3	
SNY	22.3	267	+P	16 56 08.0	−0.9	
			PMZ	m_B=5.6	12.0	3.09
			pP	16 56 18.5	2.4	
			sP	16 56 23.0	3.4	
			S	17 00 10.0	2.5	
			SMN	m_B=5.6	9.0	1.41
			SME		8.0	1.07
			LN	Ms=5.9	15.0	13.2
			LE		16.0	20.6
DL2	25.0	262	+iP	16 56 35.5	0.5	
			PMZ	m_B=5.9	4.0	1.91
			sP	16 56 48.5	2.8	
			PP	16 57 13.5	1.8	
			eS	17 00 48.0	−6.9	
			LN	Ms=5.7	13.0	9.22
			LE		15.0	5.50
BJI	28.1	269	eP	16 57 03.5	−0.6	
			epP	16 57 10.0	−1.4	
			PP	16 58 00.0	6.2	
			eS	17 01 45.0	−1.5	
			LN	Ms=6.0	15.0	9.28
			LE		16.0	14.8
TIA	29.4	261	+P	16 57 16.1	0.3	
			epP	16 57 23.0	−0.2	
			eS	17 02 02.1	−5.4	
			SMN	m_B=5.5	10.0	0.62
			SME		10.0	0.81
			LN	Ms=5.8	16.0	2.08
			LE		17.0	13.2
SSE	29.9	249	+iP	16 57 21.0	1.0	
			PMZ	m_B=6.1	4.0	1.36
			pP	16 57 27.0	−0.5	
			sP	16 57 31.0	0.2	
			ePP	16 58 17.0	0.0	
			PcP	17 00 26.0	3.8	
			S	17 02 15.0	0.9	
			sS	17 02 26.0	−1.3	
			SS	17 03 48.0	−2.4	

			PcS	17 04 06.0	1.8		
			LN	Ms=5.4		13.0	1.26
			LE			13.0	3.81
NJ2	30.8	253	+P	16 57 27.8	0.0		
			pP	16 57 34.5	−0.6		
			PP	16 58 28.0	−0.3		
			S	17 02 26.0	−1.8		
			LN	Ms=6.0		14.0	13.9
HHC	30.9	274	P	16 57 27.4	−1.5		
			pP	16 57 34.5	−1.6		
			PP	16 58 29.5	−0.3		
			iS	17 02 31.0	0.2		
			SMN	m_B=5.9		7.0	0.94
			SME			7.0	1.43
			LN	Ms=6.0		13.0	10.8
			LE			14.0	10.3
TIY	31.8	268	+iP	16 57 37.5	0.5		
			PMZ	m_B=6.0		5.0	1.15
			pP	16 57 44.5	0.3		
			sP	16 57 50.0	2.4		
			PP	16 58 40.0	−1.7		
			S	17 02 48.0	4.0		
BTO	32.0	274	−P	16 57 38.0	−1.2		
			PMZ	m_B=5.8		4.0	0.65
			sP	16 57 48.0	−1.8		
			ePP	16 58 43.0	−1.9		
			S	17 02 45.0	−2.9		
			LN	Ms=6.0		14.0	11.1
			LE			16.0	7.40
WHN	34.7	255	+P	16 58 01.5	−0.4		
			PMZ	m_B=6.0		5.0	1.27
			pP	16 58 08.0	−1.4		
			S	17 03 27.0	−1.9		
			SMN	m_B=5.5		8.0	0.71
			LN	Ms=5.8		14.0	5.65
			LE			14.0	4.33
QZH	35.9	244	+iP	16 58 12.0	0.2		
			pP	16 58 19.5	0.2		
			PP	16 59 38.5	5.8		
			S	17 03 46.0	−0.9		
			SS	17 06 11.0	2.2		
			LN	Ms=5.3		14.0	2.35
XAN	36.2	265	+iP	16 58 15.2	0.4		
			pP	16 58 22.0	−0.2		
			eS	17 03 51.0	−2.2		
			LN	Ms=6.2		15.0	17.8
			LE			15.0	10.3
LZH	38.5	272	+iP	16 58 35.2	0.9		
			PMZ	m_B=6.2		5.0	2.07
			pP	16 58 40.0	−1.6		
			S	17 04 25.0	−2.4		
			LE	Ms=5.8		13.0	5.97
GTA	39.5	279	+iP	16 58 42.4	−0.2		
			PMZ	m_B=5.7		10.0	1.43
			PP	17 00 21.0	3.9		
			PPMZ			18.0	1.43
			S	17 04 39.0	−3.5		
			SMN			29.0	2.80
			SME			30.0	3.12
			LN	Ms=5.9		15.0	8.42
GZH	40.5	248	+P	16 58 51.5	1.1		
			ePP	17 00 26.0	−1.2		
			eS	17 05 04.0	6.1		
			S	17 05 04.9	7.9		
			LN	Ms=5.7		21.0	5.62
			LE			21.0	4.22
CD2	41.6	265	+iP	16 59 00.8	1.3		
			PMZ			1.0	0.16
			pP	16 59 07.0	0.1		
			S	17 05 13.0	−0.1		
			sS	17 05 22.0	−4.6		
			LN	Ms=6.1		15.0	11.9
GYA	42.5	258	+P	16 59 07.5	0.6		
			pP	16 59 15.0	0.7		
			PP	17 00 53.0	5.0		
			PcP	17 01 02.0	2.6		
			ScP	17 04 48.0	0.6		
			PcS	17 04 52.0	1.9		
			S	17 05 26.0	−0.4		
			sS	17 05 41.0	1.2		
			LN	Ms=5.8		15.0	4.60
			LE			15.0	4.30
WMQ	45.3	291	+P	16 59 30.0	0.1		
			pP	16 59 37.6	0.2		
			PP	17 01 17.6	1.6		
			S	17 06 09.0	1.3		
			LN	Ms=6.2		14.0	12.9
QZN	45.7	247	+P	16 59 34.5	1.9		
			PP	17 01 24.0	4.6		
			S	17 06 14.0	1.3		
			sS	17 06 27.0	0.7		
			SS	17 09 28.0	−0.9		
			LN	Ms=5.7		15.0	2.50
			LE			15.0	3.10
KMI	46.0	260	+iP	16 59 36.0	0.7		
			PMZ	m_B=6.2		4.0	1.50
			pP	16 59 44.0	1.4		
			PP	17 01 26.0	3.5		
			PcS	17 05 08.0	3.6		
			S	17 06 19.0	1.8		

			SME		$m_B = 5.7$	6.0	0.70
			sS	17 06 29.0	−1.8		
			ScS	17 09 28.0	1.9		
			SS	17 09 34.0	−0.4		
			LN		Ms = 6.0	16.0	8.00
LSA	50.9	273	+iP	17 00 14.2	0.6		
			pP	17 00 21.0	0.4		
			eS	17 07 26.5	−1.4		
			LN		Ms = 5.5	12.0	1.24
			LE			13.0	1.34
KSH	55.0	292	+P	17 00 43.9	−0.5		
			pP	17 00 52.0	0.1		
			PcP	17 01 47.0	2.3		
			S	17 08 24.0	1.2		
			sS	17 08 33.0	−3.6		
			LN		Ms = 6.5	15.0	18.2

1986 5 16
O = 16 57 37.5 ± 0.22s
LAT = 46.98 N ± 4.98km
LONG = 154.23 E ± 3.71km
DEPTH = 34 km ± 0.51km
STATIONS USED = 24, STAND DEV = 2.76s

MDJ	17.3	271	eP	17 01 38.7	0.1		
CN2	20.4	272	eP	17 02 11.0	−3.6		
SNY	22.4	268	−iP	17 02 35.8	1.0		
SSE	29.9	250	P	17 03 47.0	2.4		
NJ2	30.8	254	eP	17 03 54.5	1.8		
CD2	41.7	266	P	17 05 24.2	−0.8		
GYA	42.5	258	P	17 05 32.6	0.6		

1986 5 16
O = 17 57 44.8 ± 0.13s
LAT = 47.41 N ± 3.22km
LONG = 153.96 E ± 2.27km
DEPTH = 31 km ± 0.31km
STATIONS USED = 26, STAND DEV = 1.56s

MDJ	17.1	270	eP	18 01 46.5	2.7		
CN2	20.2	270	eP	18 02 15.0	−5.3		
TIY	31.8	268	eP	18 04 10.0	1.1		
XAN	36.1	265	eP	18 04 46.7	−0.1		
LZH	38.4	272	eP	18 05 07.5	1.3		
CD2	41.5	265	eP	18 05 32.6	1.2		
GYA	42.4	258	P	18 05 39.2	0.2		
KMI	45.9	260	eP	18 06 09.0	1.6		
LSA	50.8	273	+iP	18 06 46.3	0.8		

1986 5 16
O = 21 47 27.6 ± 0.08s
LAT = 30.55 N ± 0.65km
LONG = 108.29 E ± 0.77km
DEPTH = 19 km ± 0.30km
STATIONS USED = 13, STAND DEV = 2.15s
M_L = 3.2 / 5,

XAN	3.5	9	cPn	21 48 19.6	−2.2		
			Pg	21 48 23.2	−6.5		
			SMN		M_L = 3.5	0.8	0.16
			SME			0.8	0.13
CD2	3.9	276	cPn	21 48 28.8	1.4		
			cPg	21 48 42.4	5.5		
			Sn	21 49 14.8	0.1		
			SMN		M_L = 3.5	0.8	0.10
			SME			0.8	0.10
GYA	4.3	200	Pn	21 48 35.2	2.2		

1986 5 16
O = 22 12 24.6 ± 0.21s
LAT = 51.34 N ± 3.91km
LONG = 174.99 W ± 1.95km
DEPTH = 53 km ± 2.07km
STATIONS USED = 39, STAND DEV = 2.25s

SNY	42.1	282	−iP	22 20 14.0	0.2		
DL2	45.1	280	−P	22 20 37.2	−0.4		
BJI	47.7	285	P	22 20 58.0	−0.5		
TIA	49.5	280	−P	22 21 12.3	−0.3		
SSE	50.4	272	P	22 21 20.0	0.9		
			PMZ			0.9	0.030
			epP	22 21 30.5	−1.7		
NJ2	51.2	275	−P	22 21 24.5	−0.8		
WHN	55.0	277	eP	22 21 52.5	−1.3		
XAN	56.0	284	eP	22 21 59.4	−1.4		
GTA	57.8	294	P	22 22 05.0	−8.5		
CD2	61.3	284	eP	22 22 37.6	−0.1		
WMQ	61.3	305	eP	22 22 37.0	−1.0		
GYA	62.7	279	P	22 22 46.6	−0.5		
KMI	66.1	281	eP	22 23 09.0	−0.3		

1986 5 17
O = 08 00 09.6 ± 0.19s
LAT = 50.97 N ± 3.39km
LONG = 175.98 W ± 1.95km
DEPTH = 38 km ± 1.86km
STATIONS USED = 48, STAND DEV = 2.50s

MDJ	36.4	282	eP	08 07 11.0	−1.7		
CN2	39.4	283	eP	08 07 36.6	−1.0		
SNY	41.6	282	−P	08 07 56.6	0.6		
BJI	47.2	284	eP	08 08 40.5	−0.5		
TIA	49.0	280	eP	08 08 54.7	−0.2		
HHC	49.5	288	P	08 08 59.0	−0.1		
XAN	55.5	283	eP	08 09 44.3	0.7		

LZH	57.2	288	P	08 09 56.0	−0.1
GTA	57.4	294	+P	08 09 56.2	−1.0
CD2	60.8	284	P	08 10 20.7	−0.2
WMQ	61.0	305	P	08 10 21.3	−1.3
GYA	62.1	278	P	08 10 29.4	−0.5
KMI	65.5	280	eP	08 10 42.5	−9.9

1986 5 17

O = 13 11 12.8 ± 0.12s
LAT = 51.03 N ± 1.16km
LONG = 175.16 W ± 0.75km
DEPTH = 36 km ± 0.98km
STATIONS USED = 18, STAND DEV = 0.94s

SNY	42.1	282	eP	13 18 47.0	−16.0
BJI	47.7	285	P	13 19 47.5	−0.9
XAN	56.0	284	eP	13 20 50.2	−0.5
LZH	57.7	289	P	13 21 03.0	0.1
GYA	62.6	279	P	13 21 37.0	0.1

1986 5 17

O = 13 18 59.0 ± 0.11s
LAT = 27.42 N ± 2.14km
LONG = 139.94 E ± 2.16km
DEPTH = 486 km ± 0.92km
STATIONS USED = 64, STAND DEV = 1.67s

SSE	16.8	287	eP	13 22 27.0	−0.9	
NJ2	18.9	289	−P	13 22 48.6	0.0	
MDJ	19.1	337	eP	13 22 50.5	0.1	
QZH	19.3	267	+P	13 22 54.0	1.2	
SNY	19.6	321	−iP	13 22 55.6	−0.3	
CN2	20.1	328	eP	13 23 00.2	0.0	
TIA	21.2	300	−P	13 23 10.7	−0.2	
WHN	22.6	284	−P	13 23 23.5	0.2	
BJI	23.4	309	eP	13 23 28.5	−1.7	
TIY	25.3	301	eP	13 23 47.0	−0.5	
HHC	26.9	307	+P	13 24 00.0	−2.1	
XAN	27.4	292	P	13 24 05.3	−1.1	
BTO	27.9	306	eP	13 24 10.6	−0.4	
GYA	29.6	276	P	13 24 26.2	0.3	
CD2	31.7	285	−iP	13 24 43.8	0.3	
			PMZ			0.5 0.16
LZH	31.7	295	P	13 24 46.2	2.2	
			P	13 24 44.0	0.7	
GTA	35.3	300	−iP	13 25 14.4	0.6	
			PcP	13 27 31.8	0.5	
LSA	42.7	285	−iP	13 26 14.8	0.6	
WMQ	44.8	306	−P	13 26 30.2	−0.1	
			PMZ			1.2 0.12

1986 5 17

O = 14 42 32.7 ± 0.13s
LAT = 28.23 N ± 2.29km
LONG = 142.69 E ± 2.94km
DEPTH = 40 km ± 0.62km
STATIONS USED = 24, STAND DEV = 2.22s

CN2	20.8	323	eP	14 47 20.8	7.4
NJ2	20.9	286	+P	14 47 14.4	−0.4
BJI	24.8	305	eP	14 47 51.0	−1.8
XAN	29.4	290	eP	14 48 33.2	−1.6
GYA	32.0	275	P	14 48 57.0	−0.8
CD2	33.9	284	eP	14 49 13.4	−0.6
GTA	37.0	299	eP	14 49 39.2	−1.8

1986 5 17

O = 16 20 21.8 ± 0.14s
LAT = 52.49 N ± 4.16km
LONG = 174.55 W ± 2.38km
DEPTH = 22 km ± 0.74km
STATIONS USED = 86, STAND DEV = 2.04s
Ms = 6.9 / 38, m_B = 6.2 / 18

MDJ	37.0	281	−iP	16 27 32.0	0.2		
			S	16 33 15.0	0.4		
			SME			16.0	11.7
			LE	Ms = 6.9		18.0	109
CN2	39.9	282	−P	16 27 56.0	−0.3		
			PMZ	m_B = 6.2		5.0	1.90
			PP	16 29 28.0	−3.9		
			PPMZ			7.0	4.00
			eS	16 33 55.0	−5.1		
			SMN			28.0	19.0
			SME			28.0	18.0
			SS	16 36 44.0	−5.4		
			LZ	Ms = 7.0		18.0	114
SNY	42.2	281	+iP	16 28 15.9	1.0		
			iS	16 34 36.0	2.3		
			SMN			30.0	28.8
			SME			29.0	25.2
			SS	16 37 44.0	8.5		
			LN	Ms = 6.9		15.0	44.4
			LE			16.0	54.7
DL2	45.1	279	eP	16 28 40.5	1.5		
			eScP	16 34 00.0	−8.7		
			eS	16 35 18.5	1.7		
			LN	Ms = 6.8		16.0	23.4
			LE			16.0	55.1
BJI	47.7	284	eP	16 29 00.0	0.9		
			ePP	16 30 50.0	0.7		
			eS	16 35 56.0	2.8		
			SMN			13.0	5.39
			SME			15.0	7.83

			eSS	16 39 16.0	1.2		
			LN	Ms=7.0		19.0	91.0
TIA	49.6	279	eP	16 29 13.7	−0.3		
			eS	16 36 24.0	3.9		
			SMN			14.0	3.13
			SME			17.0	10.1
HHC	49.9	288	P	16 29 18.0	1.7		
			PP	16 31 20.5	9.1		
			S	16 36 28.0	5.1		
			SMN			18.0	6.28
			SME			20.0	1.46
			LN	Ms=6.9		16.0	30.7
			LE			16.0	52.5
SSE	50.6	271	eP	16 29 22.0	0.3		
			PMZ	m_B=6.3		6.0	2.71
			pP	16 29 32.0	2.8		
			sP	16 29 36.0	3.5		
			PcP	16 30 39.0	0.4		
			PP	16 31 17.0	−0.7		
			S	16 36 32.0	−1.1		
			sS	16 36 46.0	−0.8		
			eScS	16 39 07.0	−0.3		
			SS	16 40 04.0	−0.7		
			LN	Ms=6.8		17.0	50.7
			LE			15.0	10.1
BTO	51.0	288	eP	16 29 25.0	0.6		
			PMZ	m_B=6.1		8.0	1.90
			PP	16 31 22.0	1.4		
			S	16 36 38.0	0.4		
			PS	16 36 48.0			
			eSS	16 40 08.0	−2.2		
			LN	Ms=7.1		15.0	74.8
			LE			15.0	38.4
NJ2	51.4	274	−P	16 29 27.0	−0.5		
			S	16 36 42.0	−1.5		
			LN	Ms=7.0		16.0	79.8
TIY	51.4	284	−P	16 29 30.0	2.1		
			PMZ	m_B=6.1		8.0	2.06
			PcP	16 30 41.5	0.0		
WHN	55.2	276	eP	16 29 57.0	1.4		
			PMZ	m_B=6.1		6.0	1.57
			iS	16 37 40.0	3.8		
			SMN	m_B=6.3		12.0	4.75
			LN	Ms=6.9		17.0	37.3
			LE			16.0	34.9
XAN	56.0	283	eP	16 30 00.4	−1.3		
			PP	16 32 08.0	0.8		
			ScP	16 34 48.0	−7.0		
			S	16 37 40.0	−6.1		
			SS	16 41 23.0	−9.1		
			LN	Ms=7.0		18.0	42.0
			LE			18.0	64.3
QZH	56.6	268	−iP	16 30 06.5	0.4		
			ScP	16 35 05.0	7.2		
			S	16 37 58.0	3.6		
			SS	16 41 50.0	7.1		
			LN	Ms=6.5		19.0	21.0
			LE			16.0	4.07
LZH	57.6	288	P	16 30 13.0	0.1		
			PMZ	m_B=5.9		11.0	1.93
			S	16 38 06.0	−0.7		
			SME			30.0	14.1
			LN	Ms=6.8		15.0	25.9
			LE			15.0	26.0
WMQ	60.9	305	P	16 30 36.6	0.6		
			PP	16 32 48.0	−3.3		
			S	16 38 51.0	1.0		
			LE	Ms=7.1		20.0	90.1
CD2	61.3	284	eP	16 30 38.9	0.4		
			S	16 39 01.5	6.6		
			LE	Ms=7.2		17.0	83.6
GYA	62.8	279	P	16 30 46.0	−2.6		
			S	16 39 17.0	3.2		
			LN	Ms=6.9		18.0	27.2
			LE			18.0	33.8
KMI	66.1	281	eP	16 31 13.0	2.4		
			PMZ	m_B=6.0		6.0	1.10
			S	16 40 00.0	4.8		
			SMN			13.0	4.40
			ScS	16 41 02.0	1.4		
			SS	16 44 22.0	9.7		
			LE	Ms=6.8		14.0	23.9
QZN	66.4	271	P	16 31 14.8	2.8		
			PP	16 33 42.5	3.0		
			S	16 40 01.0	2.6		
			SMN	m_B=6.6		12.0	5.60
			SME			10.0	3.00
			SS	16 44 19.0	2.6		
			LN	Ms=6.8		18.5	20.4
			LE			17.0	22.3
LSA	69.5	292	P	16 31 29.8	−2.0		
			S	16 40 45.0	9.6		
			LN	Ms=6.8		18.0	19.1
			LE			17.0	21.9
KSH	69.9	309	+P	16 31 37.8	3.6		
			PP	16 34 18.8	9.1		
			S	16 40 48.8	8.2		
			LE	Ms=7.5		18.0	145

1986 5 17

O=22 16 28.0 ± 0.13s
LAT=51.15 N ± 1.64km
LONG=176.10 W ± 0.91km
DEPTH= 42 km ± 1.18km
STATIONS USED = 44, STAND DEV= 1.79s

CN2	39.3	283	eP	22 23 53.0	−1.5
SNY	41.5	281	eP	22 24 10.1	−2.9
BJI	47.1	284	eP	22 24 58.0	0.1
HHC	49.4	288	P	22 25 15.6	−0.4
BTO	50.5	288	P	22 25 25.0	0.7
TIY	50.8	284	eP	22 25 28.2	1.3
XAN	55.4	283	eP	22 26 00.0	−0.7
LZH	57.1	288	P	22 26 13.5	0.4
CD2	60.7	284	eP	22 26 38.4	0.4
KMI	65.4	280	eP	22 27 09.0	−0.6

1986 5 18
O=00 01 18.6 ± 0.12s
LAT= 9.34 N ± 2.36km
LONG= 58.05 E ± 1.90km
DEPTH= 10 km ± 0.19km
STATIONS USED = 19, STAND DEV= 1.73s

WMQ	42.9	32	P	00 09 21.5	1.6	
XAN	52.6	54	eP	00 10 34.0	−1.6	
TIY	56.4	51	P	00 11 01.7	−1.2	
			eS	00 18 45.5	−6.6	
BJI	59.8	49	eP	00 11 25.5	−1.3	

1986 5 18
O=03 31 21.9 ± 0.13s
LAT=26.08 N ± 1.07km
LONG=100.27 E ± 1.23km
DEPTH= 12 km ± 0.65km
STATIONS USED = 13, STAND DEV= 4.02s
M_L=4.0/ 3,

CD2	5.7	32	Pn	03 32 49.4	2.5	
			Pg	03 33 09.4	6.9	
			Sn	03 33 56.6	2.2	
			Sg	03 34 22.8	2.3	
			SMN	M_L=4.0	1.2	0.090
			SME		1.0	0.15
XAN	10.9	41	eP	03 33 55.0	−6.2	

1986 5 18
O=10 58 10.4 ± 0.08s
LAT=36.05 N ± 1.69km
LONG= 70.58 E ± 1.23km
DEPTH= 88 km ± 0.55km
STATIONS USED = 18, STAND DEV= 2.01s

KSH	5.5	50	eP	10 59 34.9	3.7
			S	11 00 36.9	3.9
WMQ	15.2	54	eP	11 01 41.8	−0.3
GTA	23.3	73	P	11 03 13.5	1.8
GYA	32.1	97	P	11 04 31.8	−0.4

1986 5 18
O=14 22 36.9 ± 0.08s
LAT=51.47 N ± 3.46km
LONG=174.67 W ± 1.40km
DEPTH= 31 km ± 1.15km
STATIONS USED = 57, STAND DEV= 1.20s
Ms=4.8/ 3,

MDJ	37.1	282	eP	14 29 45.3	−1.4	
CN2	40.1	283	+P	14 30 10.5	−0.8	
			PMZ		2.0	0.20
			PP	14 31 45.0	−2.6	
			eS	14 36 10.0	−5.4	
SNY	42.3	282	+P	14 30 30.6	0.8	
DL2	45.2	280	eP	14 30 55.0	1.5	
BJI	47.9	285	eP	14 31 14.5	0.1	
			eS	14 38 12.0	3.2	
TIA	49.7	280	eP	14 31 28.5	−0.1	
HHC	50.1	288	P	14 31 32.0	0.0	
SSE	50.6	272	P	14 31 36.0	0.8	
			PMZ		1.2	0.060
NJ2	51.4	275	eP	14 31 41.0	−0.3	
TIY	51.6	285	+P	14 31 44.0	1.0	
			LN	Ms=4.7	15.0	0.33
XAN	56.2	284	+P	14 32 16.0	−0.6	
LZH	57.8	289	−P	14 32 29.0	0.5	
GTA	57.9	294	P	14 32 28.0	−1.1	
			LE	Ms=4.8	20.0	0.48
WMQ	61.4	305	−iP	14 32 53.2	−0.1	
KMI	66.3	281	eP	14 33 25.0	−0.1	
LSA	69.8	292	P	14 33 48.2	0.7	
KSH	70.5	309	eP	14 33 52.8	1.3	

1986 5 18
O=15 26 40.5 ± 0.08s
LAT=51.82 N ± 3.61km
LONG=175.39 W ± 1.69km
DEPTH= 31 km ± 1.00km
STATIONS USED = 51, STAND DEV= 1.41s

CN2	39.5	282	−P	15 34 10.6	−0.1
SNY	41.8	281	−eP	15 34 30.7	1.4
DL2	44.7	279	eP	15 34 53.5	0.3
BJI	47.4	284	eP	15 35 15.0	1.1
TIA	49.2	279	eP	15 35 28.3	0.0
SSE	50.1	271	P	15 35 36.5	1.1
NJ2	50.9	274	−iP	15 35 41.2	−0.2

WHN	54.7	276	eP	15 36 09.0	−0.8
XAN	55.7	283	eP	15 36 16.0	−0.5
LZH	57.3	288	eP	15 36 26.0	−2.4
WMQ	60.9	305	P	15 36 51.8	−1.3
CD2	61.0	284	eP	15 36 54.3	0.6
GYA	62.4	278	+P	15 37 07.0	3.7
KMI	65.8	280	+P	15 37 25.0	−0.5
QZN	65.9	270	−P	15 37 27.9	1.8

1986 5 18
O = 19 13 59.3 ± 0.09s
LAT = 51.57 N ± 2.62km
LONG = 174.73 W ± 1.38km
DEPTH = 35 km ± 0.96km
STATIONS USED = 36, STAND DEV = 1.59s

CN2	40.0	283	eP	19 21 31.0	−1.9
SNY	42.2	282	eP	19 21 52.0	0.6
DL2	45.2	280	eP	19 22 15.0	−0.1
BJI	47.8	285	eP	19 22 37.0	1.1
SSE	50.5	272	eP	19 22 57.5	0.6
			epP	19 23 08.0	1.4
NJ2	51.3	275	eP	19 23 02.0	−1.0
XAN	56.1	284	eP	19 23 37.0	−1.2
CD2	61.4	285	eP	19 24 15.6	0.5
GYA	62.8	279	P	19 24 24.0	−0.6
KMI	66.2	281	eP	19 24 49.5	2.8

1986 5 18
O = 19 33 33.8 ± 0.16s
LAT = 24.87 N ± 2.32km
LONG = 123.08 E ± 2.19km
DEPTH = 34 km ± 0.60km
STATIONS USED = 63, STAND DEV = 2.59s
Ms = 4.8 / 24, M_L = 4.2 / 2, m_B = 5.2 / 3

QZH	4.1	272	eP	19 34 35.6	0.2		
			SMN	M_L = 4.1		1.0	0.54
			SME			1.2	0.26
			LG_1	19 35 48.5	6.6		
			LN	Ms = 4.5		9.5	6.94
			LE			9.5	5.89
SSE	6.4	345	eP	19 35 05.0	−3.6		
			eS	19 36 18.0	−3.6		
			LG_1	19 37 00.8	5.1		
			LN	Ms = 4.6		14.0	3.50
			LE			14.0	8.18
NJ2	8.1	334	eP	19 35 27.0	−4.5		
			LN	Ms = 4.8		13.0	4.20
			LE			13.0	6.90
GZH	9.1	261	eP	19 35 41.0	−4.6		
			S	19 37 21.0	−6.5		
			LN	Ms = 4.9		12.0	2.48
			LE			10.0	5.91
TIA	12.4	337	eP	19 36 39.5	8.4		
			LG_2	19 40 22.5	−0.9		
			LN	Ms = 4.9		15.0	0.98
			LE			15.0	5.45
QZN	13.6	247	eP	19 36 50.9	4.2		
			SS	19 39 32.0	−1.0		
			LN	Ms = 4.6		16.0	2.20
			LE			15.0	1.20
GYA	14.9	280	eP	19 37 07.0	3.1		
			S	19 39 53.0	5.1		
			LN	Ms = 5.0		10.0	2.80
			LE			10.0	2.10
XAN	15.3	310	eP	19 37 05.4	−4.3		
			LG_2	19 41 53.0	−6.9		
			LN	Ms = 5.1		14.0	4.68
			LE			13.0	2.57
TIY	15.7	327	eP	19 37 18.8	4.5		
			sS	19 40 25.0	6.0		
			LG_2	19 42 13.5	1.9		
			LN	Ms = 4.8		13.0	2.38
			LE			13.0	1.67
BJI	16.2	341	eP	19 37 20.0	−0.7		
			eS	19 40 15.0	−4.1		
			LE	Ms = 4.6		14.0	1.70
SNY	16.9	1	−P	19 37 30.0	0.3		
			eS	19 40 34.0	−1.6		
			LE	Ms = 4.8		17.0	2.91
CD2	18.1	294	eP	19 37 45.0	0.4		
			eS	19 41 08.6	6.0		
			LG_2	19 43 30.2	−0.9		
			LN	Ms = 5.3		8.0	3.80
KMI	18.4	275	eP	19 37 49.5	0.5		
HHC	18.6	332	P	19 37 53.0	2.0		
			S	19 41 17.0	3.6		
			LN	Ms = 4.8		11.0	1.36
			LE			11.0	1.18
CN2	19.0	5	+P	19 37 54.5	−0.9		
			eS	19 41 20.0	−2.4		
BTO	19.1	328	eP	19 37 56.7	−0.3		
			eS	19 41 22.0	−3.6		
			LN	Ms = 5.0		16.0	2.60
			LE			16.0	2.80
LZH	20.0	309	P	19 38 05.0	−1.3		
			eS	19 41 35.0	−9.4		
			LN	Ms = 4.9		12.0	2.09
MDJ	20.4	13	eP	19 38 11.2	0.4		
			pP	19 38 16.5	−2.9		
			LE	Ms = 4.9		10.0	1.67

GTA	24.4	312	−P	19 38 50.4	0.1			
			sS	19 43 20.0	0.3			
			SME	m_B = 4.9		6.0	0.23	
			LN	Ms = 5.0		12.0	2.06	

1986 5 18
O = 20 13 21.4 ± 0.26s
LAT = 6.80 S ± 1.98km
LONG = 129.39 E ± 3.52km
DEPTH = 1 km ± 1.73km
STATIONS USED = 9, STAND DEV = 3.92s

XAN	45.0	336	eP	20 21 36.8	−4.0			
BJI	48.2	346	P	20 22 09.0	3.3			

1986 5 18
O = 21 29 12.6 ± 0.21s
LAT = 55.27 N ± 4.23km
LONG = 163.80 E ± 1.87km
DEPTH = 37 km ± 0.67km
STATIONS USED = 33, STAND DEV = 1.99s
Ms = 4.9 / 6,

MDJ	24.2	258	eP	21 34 25.5	−1.8			
			eS	21 38 41.0	0.4			
			LE	Ms = 4.9		15.0	1.73	
CN2	27.1	261	+P	21 34 52.0	−2.0			
			eS	21 39 22.0	−5.7			
SNY	29.4	260	P	21 35 18.4	3.5			
BTO	37.9	270	eP	21 36 29.0	0.3			
			eS	21 42 15.0	−2.7			
			LN	Ms = 5.2		15.0	1.40	
			LE			15.0	0.90	
GTA	44.5	277	eP	21 37 24.4	1.2			
			LN	Ms = 5.0		13.0	0.81	
WMQ	48.3	290	eP	21 37 51.2	−1.8			
			pP	21 38 05.0	2.2			
			S	21 44 49.0	0.6			
			LN	Ms = 5.6		20.0	3.75	
			LE			20.0	2.38	
CD2	48.3	265	eP	21 37 53.0	−0.2			
GYA	50.1	259	P	21 38 22.0	16.1			
KMI	53.3	262	eP	21 38 32.5	1.3			

1986 5 19
O = 02 37 34.2 ± 0.16s
LAT = 52.40 N ± 5.25km
LONG = 174.97 W ± 2.38km
DEPTH = 32 km ± 0.41km
STATIONS USED = 53, STAND DEV = 3.08s
Ms = 5.4 / 16,

MDJ	36.7	280	eP	02 44 42.0	1.1			
			eS	02 50 28.0	5.7			
CN2	39.7	282	eP	02 45 07.8	2.4			
			eS	02 51 08.0	1.1			
SNY	41.9	281	eP	02 45 24.6	0.5			
BJI	47.5	284	eP	02 46 08.0	−0.4			
			eS	02 53 02.0	1.8			
			LN	Ms = 5.3		17.0	1.64	
SSE	50.4	271	eP	02 46 29.0	−1.9			
			pP	02 46 39.8	−0.2			
			eS	02 53 37.0	−3.9			
			LN	Ms = 5.0		13.0	0.60	
BTO	50.7	288	eP	02 46 36.0	2.2			
			eS	02 53 50.0	3.8			
			LN	Ms = 5.6		14.0	1.30	
			LE			17.0	2.30	
NJ2	51.1	274	eP	02 46 36.5	−0.2			
			eS	02 53 49.0	−2.5			
			LN	Ms = 5.5		16.0	2.10	
TIY	51.2	284	eP	02 46 44.0	6.8			
			eS	02 53 58.5	6.0			
			LN	Ms = 5.4		15.0	1.64	
WHN	54.9	276	eP	02 47 08.5	3.6			
XAN	55.8	283	eP	02 47 11.6	0.5			
			LE	Ms = 5.5		17.0	2.23	
QZH	56.4	268	eP	02 47 20.0	4.7			
			S	02 55 07.0	5.7			
			LN	Ms = 5.2		35.0	1.23	
			LE			35.0	1.77	
LZH	57.4	288	eP	02 47 21.0	−1.5			
			LN	Ms = 5.4		18.0	1.69	
GTA	57.4	294	P	02 47 12.5	−10.1			
			LE	Ms = 5.4		16.0	1.44	
WMQ	60.7	305	P	02 47 42.6	−3.4			
CD2	61.1	284	eP	02 47 55.4	7.3			
			LE	Ms = 5.6		18.0	2.26	
GYA	62.6	278	P	02 47 57.2	−0.9			
			S	02 56 24.0	3.0			
KMI	65.9	280	eP	02 48 21.5	1.4			
KSH	69.8	309	eP	02 48 49.0	4.7			
			eS	02 57 54.0	3.3			

1986 5 19
O = 03 09 57.8 ± 0.09s
LAT = 25.52 N ± 0.83km
LONG = 100.06 E ± 0.79km
DEPTH = 14 km ± 0.18km
STATIONS USED = 8, STAND DEV = 1.90s
M_L = 3.6 / 4,

KMI	2.5	99	+Pg	03 10 40.5	−1.0			
			Sg	03 11 11.0	−3.8			

		SMN	M_L=3.5	1.0	0.16	
		SME		1.0	0.34	
GYA	6.0	80	cPn	03 11 27.2	0.3	

1986 5 19
O=03 19 04.4 ± 0.12s
LAT=52.19 N ± 3.79km
LONG=174.84 W ± 1.67km
DEPTH= 33 km ± 0.33km
STATIONS USED = 28, STAND DEV= 2.24s

SNY	42.1	281	eP	03 26 54.6	−0.4		
SSE	50.5	271	eP	03 28 01.0	−0.4		
BTO	50.9	288	eP	03 28 06.6	1.8		
XAN	55.9	283	eP	03 28 41.3	−0.6		
WMQ	60.9	305	P	03 29 18.7	1.5		

1986 5 19
O=08 08 01.7 ± 0.08s
LAT=47.33 N ± 2.40km
LONG=154.00 E ± 1.56km
DEPTH= 39 km ± 0.43km
STATIONS USED = 70, STAND DEV= 1.22s
Ms=5.2/24, m_B=5.2/ 2

MDJ	17.2	270	eP	08 12 00.5	0.0		
			pP	08 12 04.0	−4.7		
			PP	08 12 15.0	0.3		
			S	08 15 10.0	2.1		
			LE	Ms=4.8		14.0	2.56
CN2	20.3	270	+P	08 12 33.9	−2.8		
SNY	22.3	267	+P	08 12 57.0	−0.2		
			eS	08 16 54.0	−0.9		
			sS	08 17 14.0	3.0		
			LN	Ms=5.2		17.0	3.18
			LE			18.0	4.34
DL2	24.9	262	+P	08 13 24.0	0.8		
			sP	08 13 37.0	−0.6		
			eS	08 17 40.0	−1.5		
			LN	Ms=5.0		14.0	1.35
			LE			14.0	1.36
BJI	28.1	269	eP	08 13 52.5	0.2		
			S	08 18 32.0	−0.2		
			LN	Ms=5.2		14.0	1.57
			LE			15.5	2.13
TIA	29.4	261	+P	08 14 04.2	0.2		
			eS	08 19 00.0	6.0		
			LN	Ms=5.1		15.0	0.98
			LE			15.0	2.21
SSE	29.9	249	P	08 14 08.5	0.3		
			PMZ			1.0	0.050
			sP	08 14 22.0	−0.8		
			eS	08 19 02.0	0.6		
			esS	08 19 18.0	−0.6		
			eSS	08 20 36.0	−1.9		
			LN	Ms=4.9		14.0	0.84
			LE			13.0	0.87
NJ2	30.8	253	+P	08 14 15.0	−0.9		
			S	08 19 14.0	−0.3		
			LN	Ms=5.2		14.0	2.60
HHC	30.9	274	P	08 14 16.2	−0.9		
			S	08 19 12.0	−4.1		
			LN	Ms=5.2		13.0	1.22
			LE			14.0	1.87
TIY	31.8	268	P	08 14 26.0	0.9		
			PMZ			1.0	0.040
			PP	08 15 31.5	1.3		
BTO	32.0	274	eP	08 14 25.0	−2.3		
			eS	08 19 31.0	−4.4		
			LN	Ms=5.0		12.0	0.40
			LE			12.0	1.20
WHN	34.7	255	P	08 14 50.0	0.0		
			eS	08 20 19.0	2.7		
			LN	Ms=5.2		12.0	1.11
			LE			14.0	1.33
QZH	35.8	244	eP	08 15 00.0	0.0		
			eS	08 20 39.0	4.7		
			LN	Ms=4.7		14.0	0.62
XAN	36.2	265	+iP	08 15 03.2	0.3		
LZH	38.5	272	+iP	08 15 23.5	1.1		
			S	08 21 16.0	2.2		
			LN	Ms=5.3		14.0	1.86
GZH	40.5	248	eP	08 15 40.0	1.5		
CD2	41.5	265	+iP	08 15 49.0	1.4		
			PMZ			1.0	0.40
			S	08 22 03.0	3.4		
			LN	Ms=5.3		15.0	1.80
GYA	42.4	258	+P	08 15 55.4	0.4		
			PP	08 17 42.0	5.7		
			ScP	08 21 33.6	0.2		
			S	08 22 16.0	3.2		
WMQ	45.3	291	P	08 16 18.0	0.0		
KMI	45.9	260	+P	08 16 24.0	0.5		
LSA	50.9	273	+iP	08 17 02.9	1.2		
KSH	55.0	292	P	08 17 33.0	0.6		
			LE	Ms=5.8		16.0	4.50

1986 5 19
O=08 36 50.6 ± 0.06s
LAT=26.14 N ± 0.33km
LONG=100.15 E ± 0.56km
DEPTH= 17 km ± 1.14km

STATIONS USED = 5, STAND DEV = 3.36s
M_L = 3.5 / 2,

GYA	5.9	85	ePg	08 38 35.4	1.1

1986 5 19
O = 12 36 29.5 ± 0.33s
LAT = 28.45 S ± 3.16km
LONG = 69.13 W ± 5.43km
DEPTH = 107 km ± 2.63km
STATIONS USED = 24, STAND DEV = 3.33s

KSH	149.2	60	eP	12 56 04.0	1.7	
WMQ	155.9	44	eP	12 56 07.0	−4.8	
GTA	165.7	37	P	12 56 24.2	1.6	
TIA	170.6	327	eP	12 56 27.0	1.4	
CD2	173.3	67	eP	12 56 29.2	1.6	
XAN	174.2	16	eP	12 56 28.2	−0.4	

1986 5 19
O = 13 02 43.9 ± 0.15s
LAT = 12.54 S ± 1.36km
LONG = 167.34 E ± 2.15km
DEPTH = 34 km ± 0.41km
STATIONS USED = 50, STAND DEV = 1.38s

NJ2	64.2	315	eP	13 13 17.5	−0.5	
			LN		1.0	0.020
			LN		1.8	0.090
MDJ	66.4	331	eP	13 13 31.2	−1.1	
SNY	67.4	326	eP	13 13 38.4	−0.5	
CN2	67.8	329	eP	13 13 40.0	−1.3	
GYA	70.5	304	eP	13 13 58.0	−0.2	
BJI	70.6	321	eP	13 13 58.5	0.0	
TIY	71.7	317	eP	13 14 05.6	0.4	
XAN	72.3	312	eP	13 14 08.2	−0.3	
KMI	73.2	301	+P	13 14 15.5	1.1	
HHC	74.0	319	eP	13 14 18.5	−0.1	
CD2	74.7	307	eP	13 14 23.6	0.6	
BTO	74.8	318	eP	13 14 23.6	0.0	
LZH	76.9	312	−P	13 14 36.5	0.9	
GTA	81.2	314	P	13 14 59.1	0.2	
WMQ	91.2	315	eP	13 15 48.0	−0.1	

1986 5 19
O = 13 52 30.0 ± 0.08s
LAT = 75.51 N ± 1.31km
LONG = 111.69 E ± 1.77km
DEPTH = 14 km ± 0.07km
STATIONS USED = 26, STAND DEV = 1.76s

WMQ	33.5	212	eP	13 59 13.8	2.5
BJI	35.6	174	eP	13 59 30.0	0.2
TIY	37.9	179	eP	13 59 49.6	0.6
LZH	39.7	190	eP	14 00 05.0	1.0
XAN	41.6	183	eP	14 00 16.0	−3.5
GYA	49.2	186	P	14 01 19.8	−0.4

1986 5 19
O = 13 54 21.9 ± 0.34s
LAT = 45.52 N ± 11.10km
LONG = 148.88 E ± 5.14km
DEPTH = 39 km ± 0.94km
STATIONS USED = 12, STAND DEV = 4.23s

BJI	24.5	269	eP	13 59 30.0	−9.2
CD2	37.8	263	eP	14 01 36.6	−0.4

1986 5 19
O = 16 41 53.3 ± 0.31s
LAT = 22.70 N ± 1.31km
LONG = 121.37 E ± 1.88km
DEPTH = 27 km ± 0.83km
STATIONS USED = 13, STAND DEV = 1.60s
M_L = 3.3 / 5,

QZH	3.4	312	+Pn	16 42 45.3	0.4	
			Sn	16 43 24.8	−1.1	
			SMN	M_L = 3.3	0.3	0.11
			SME		0.5	0.090
GZH	7.4	275	ePn	16 43 42.0	1.8	

1986 5 19
O = 16 51 26.7 ± 0.71s
LAT = 23.91 N ± 3.10km
LONG = 124.56 E ± 5.11km
DEPTH = 10 km
STATIONS USED = 7, STAND DEV = 3.95s
M_L = 3.7 / 1,

QZH	5.5	282	ePg	16 53 06.3	1.7

1986 5 19
O = 17 58 45.6 ± 0.19s
LAT = 4.05 N ± 3.14km
LONG = 126.04 E ± 5.66km
DEPTH = 35 km ± 0.48km
STATIONS USED = 50, STAND DEV = 3.13s
Ms = 4.3 / 3,

QZN	21.7	315	P	18 03 35.6	−0.4	
QZH	22.0	342	eP	18 03 38.5	0.0	
			S	18 07 40.0	6.6	
			LE	Ms = 4.3	28.0	1.01
GZH	22.6	328	eP	18 03 38.0	−6.3	
			eS	18 07 51.0	6.2	
SSE	27.3	351	P	18 04 33.0	3.7	
			sS	18 09 25.0	4.6	

			LN		Ms=4.3	20.0	0.54
NJ2	28.7	347	eP	18 04 44.5	2.8		
GYA	29.0	322	P	18 04 48.2	3.4		
KMI	30.7	315	eP	18 05 03.5	3.7		
XAN	33.8	334	eP	18 05 23.0	−4.2		
CD2	34.0	324	P	18 05 30.4	1.9		
TIY	35.7	341	eP	18 05 44.7	1.1		
SNY	37.7	357	eP	18 06 03.0	3.2		
			eS	18 11 42.0	−5.4		
			LE		Ms=4.5	20.0	0.54
LZH	37.9	330	eP	18 06 00.5	−1.3		
HHC	38.9	342	P	18 06 12.0	2.0		
MDJ	40.5	4	eP	18 06 22.6	−0.9		
LSA	41.7	312	P	18 06 31.7	−2.1		
WMQ	52.1	325	eP	18 07 56.6	1.7		

1986 5 19

O=18 46 09.5 ± 0.14s
LAT=35.52 N ± 1.06km
LONG=100.64 E ± 1.31km
DEPTH= 7 km ± 0.38km
STATIONS USED = 11, STAND DEV= 3.12s

				M_L=3.4/ 3,			
LZH	2.7	77	Pn	18 46 55.5	2.1		
			Pg	18 46 58.0	1.5		
			Sn	18 47 31.0	3.4		
			SMN		M_L=4.0	0.5	0.90
			SME			0.5	0.60
GTA	3.9	351	Pn	18 47 14.9	4.0		
			Pg	18 47 24.0	5.0		
			Sg	18 48 12.1	−0.8		
CD2	5.3	150	ePg	18 47 46.6	3.6		
XAN	7.0	100	+Pn	18 47 51.0	−1.5		
			Pg	18 48 20.0	7.5		
			Sn	18 49 13.6	−0.7		
			Sg	18 49 52.5	4.7		
			SMN		M_L=3.3	1.0	0.020
			SME			1.0	0.010

1986 5 19

O=20 52 49.6 ± 0.16s
LAT=51.50 N ± 3.01km
LONG=174.90 W ± 1.22km
DEPTH= 35 km ± 0.24km
STATIONS USED = 36, STAND DEV= 0.94s

MDJ	37.0	282	eP	20 59 55.5	−2.3		
CN2	39.9	283	+P	21 00 22.0	−0.5		
SNY	42.2	282	+iP	21 00 41.8	0.9		
DL2	45.1	280	P	21 01 05.5	0.8		
BJI	47.7	284	P	21 01 26.0	0.5		
TIY	51.5	285	P	21 01 54.6	0.4		
			PMZ			0.8	0.030
XAN	56.0	283	P	21 02 13.4	−13.7		
LZH	57.7	289	eP	21 02 22.0	−16.9		
CD2	61.3	284	eP	21 03 05.2	0.4		
GYA	62.7	279	P	21 03 14.0	−0.3		
KMI	66.1	281	eP	21 03 36.0	−0.4		

1986 5 19

O=20 54 01.9 ± 0.15s
LAT=12.75 S ± 1.73km
LONG=167.27 E ± 2.31km
DEPTH= 45 km ± 0.66km
STATIONS USED = 60, STAND DEV= 1.47s
Ms=5.8/22, m_B=5.9/13

SSE	62.1	316	−P	21 04 21.0	−0.1		
			pP	21 04 29.0	−4.1		
			PcP	21 05 01.0	1.1		
			S	21 12 40.0	−0.2		
			PS	21 13 02.0			
			ScS	21 14 02.0	−2.4		
			SS	21 16 46.0	1.0		
			LN		Ms=5.5	34.0	3.82
GZH	63.7	304	+P	21 04 32.8	1.3		
			S	21 13 03.0	3.3		
			LE		Ms=6.0	23.0	7:32
NJ2	64.3	315	+P	21 04 34.5	−0.9		
			S	21 13 08.0	0.8		
			LN		Ms=5.8	16.0	3.20
MDJ	66.5	332	+P	21 04 50.0	−0.1		
			S	21 13 34.0	−0.9		
			SMN		m_B=6.2	8.0	2.43
WHN	66.6	311	eP	21 04 48.0	−2.6		
			PMZ		m_B=6.0	4.0	0.81
			eS	21 13 40.0	2.8		
			LN		Ms=5.8	17.0	1.99
			LE			22.0	3.60
DL2	66.7	323	eP	21 04 51.0	−0.2		
			S	21 13 36.0	−1.1		
			LN		Ms=6.5	20.0	2.42
			LE			18.0	18.0
SNY	67.6	326	−P	21 04 54.5	−2.0		
			S	21 13 40.0	−7.2		
			LN		Ms=5.5	23.0	1.65
			LE			23.0	1.56
CN2	68.0	329	−P	21 04 57.0	−2.0		
			PMZ		m_B=6.0	4.0	0.80
			eS	21 13 47.0	−6.3		
			eSS	21 18 07.0	−8.8		
GYA	70.6	304	+P	21 05 16.0	0.6		

			PcP	21 05 41.0	5.8		
			S	21 14 18.0	−5.0		
			ScS	21 15 12.0	2.1		
BJI	70.7	321	eP	21 05 15.5	−0.5		
			PMZ	m_B = 5.8		4.5	0.55
			eS	21 14 20.0	−6.0		
			SMN	m_B = 5.7		8.0	0.54
			SME			9.0	0.35
			LN	Ms = 5.5		17.0	0.74
			LE			17.0	1.41
TIY	71.8	317	−P	21 05 23.0	0.4		
			PMZ			1.6	0.14
			pP	21 05 34.0	−0.4		
			S	21 14 45.0	7.9		
XAN	72.4	312	P	21 05 26.0	0.2		
			S	21 14 45.0	1.6		
			LN	Ms = 5.8		18.0	1.97
			LE			18.0	2.62
KMI	73.3	301	+P	21 05 33.5	2.1		
			PMZ	m_B = 5.8		5.0	0.70
			pP	21 05 45.0	2.0		
			S	21 15 01.0	7.2		
			SME	m_B = 5.9		9.0	1.10
HHC	74.1	319	P	21 05 35.0	−1.0		
			S	21 14 56.5	−6.3		
			SMN	m_B = 6.0		10.0	1.10
			SME			9.0	0.96
			LN	Ms = 6.1		24.0	5.55
			LE			24.0	5.25
CD2	74.8	307	eP	21 05 41.3	1.1		
			S	21 15 14.0	3.0		
			LE	Ms = 5.8		22.0	3.35
BTO	74.9	318	+P	21 05 41.0	0.0		
			PP	21 08 24.0	−5.9		
			eS	21 15 08.0	−6.2		
			eSKS	21 15 41.0	1.3		
			LN	Ms = 5.7		18.0	1.30
			LE			18.0	1.50
GTA	81.3	314	+iP	21 06 16.7	0.6		
			PMZ	m_B = 5.9		5.0	0.72
			iS	21 16 28.5	6.2		
			SMN	m_B = 5.8		10.0	0.78
			SS	2' 21 44.2	4.3		
			LE	Ms = 5.7		20.0	2.33
LSA	84.5	302	eP	21 06 33.6	0.8		
			pP	21 06 47.0	2.7		
			S	21 16 55.0	2.3		
			LE	Ms = 5.2		16.0	0.55
WMQ	91.3	315	P	21 07 04.2	−1.1		
			SKS	21 17 37.0	6.6		
			S	21 17 50.4	−6.2		
			LE	Ms = 5.8		24.0	2.48
KSH	99.0	308	eP	21 07 20.0	−18.8		
			SMN	m_B = 6.4		10.0	2.00

1986 5 19

O = 23 26 45.3 ± 0.18s
LAT = 51.73 N ± 6.13km
LONG = 179.58 W ± 2.60km
DEPTH = 36 km ± 2.20km
STATIONS USED = 36, STAND DEV = 2.02s

SNY	39.2	278	+iP	23 34 12.6	0.2
DL2	42.2	276	eP	23 34 37.0	0.4
BJI	44.8	281	eP	23 34 58.0	−0.2
TIA	46.6	276	eP	23 35 12.0	−0.6
BTO	48.2	286	eP	23 35 25.2	0.2

1986 5 20

O = 04 10 31.1 ± 0.08s
LAT = 29.78 N ± 1.35km
LONG = 137.51 E ± 1.58km
DEPTH = 527 km ± 0.42km
STATIONS USED = 61, STAND DEV = 1.37s
m_B = 4.6 / 2

DL2	16.0	309	eP	04 13 50.0	−0.3		
MDJ	16.1	339	+P	04 13 51.8	0.1		
NJ2	16.2	283	+P	04 13 53.2	0.7		
SNY	16.5	321	+iP	04 13 55.8	0.3		
			S	04 16 40.5	0.3		
			SMN	m_B = 4.5		10.0	0.80
			SME			6.0	0.62
CN2	17.0	329	+iP	04 14 00.8	0.4		
			PMZ			2.0	0.50
			iS	04 16 50.0	0.2		
			SME	m_B = 4.6		5.0	0.80
QZH	17.5	259	eP	04 14 05.2	−0.1		
TIA	18.3	296	eP	04 14 13.0	0.2		
WHN	20.0	278	P	04 14 30.0	0.3		
BJI	20.2	306	eP	04 14 31.0	−0.4		
			eS	04 17 44.0	−1.0		
HHC	23.8	305	eP	04 15 03.0	−1.2		
XAN	24.6	287	−iP	04 15 11.0	−0.3		
BTO	24.8	303	eP	04 15 13.0	−0.4		
GYA	27.4	271	−P	04 15 36.0	0.2		
			S	04 19 37.0	−1.7		
LZH	28.9	291	eP	04 15 48.0	−0.8		
CD2	29.1	281	−iP	04 15 50.8	0.1		
			PMZ			0.6	0.17
			S	04 20 04.0	−1.5		
KMI	31.1	270	−P	04 16 09.0	0.6		

WMQ	41.7	304	P	04 17 35.5	0.4		
			PMZ			15.0	0.070
			S	04 23 11.0	−2.9		
			1986 5 20				
			O=05 25 46.1	± 0.12s			
			LAT=24.09 N	± 1.62km			
			LONG=121.69 E	± 1.53km			
			DEPTH= 20 km	± 0.32km			
			STATIONS USED = 89, STAND DEV= 1.92s				
			Ms=6.8/33,	m_B=6.6/38			
QZH	2.9	287	−iPn	05 26 32.0	−0.3		
			eSn	05 27 05.5	−3.4		
			LE			8.0	61.8
SSE	7.0	356	−iPn	05 27 29.0	1.1		
			PMZ			13.0	1.13
			sP	05 27 35.0	−4.6		
			eSn	05 28 50.0	0.9		
			LG_1	05 29 27.0	1.4		
			LG_2	05 29 42.0	5.3		
			LE	Ms=6.8		13.0	975
GZH	7.7	264	iPn	05 27 40.2	2.3		
			Sn	05 29 05.0	−2.2		
NJ2	8.3	343	+iP	05 27 46.5	−2.2		
			S	05 29 15.0	−7.7		
			LN	Ms=6.9		12.0	837
WHN	9.2	316	+iP	05 27 59.0	−1.3		
			sP	05 28 06.0	−3.8		
			iS	05 29 45.0	1.2		
			LN	Ms=7.0		10.0	864
QZN	12.1	248	−P	05 28 42.0	1.1		
			PP	05 28 52.0	1.4		
			S	05 30 57.0	0.9		
			LG_1	05 32 03.0	−3.7		
			LG_2	05 32 23.0	−2.9		
			LN	Ms=6.4		16.0	188
			LE			13.0	92.0
TIA	12.7	343	−P	05 28 46.8	−2.0		
			pP	05 28 50.2	−4.2		
			LE	Ms=7.2		11.5	833
GYA	13.8	283	−P	05 29 04.0	0.6		
			PMZ	m_B=6.1		4.0	1.60
			pP	05 29 07.0	−1.9		
			PP	05 29 14.0	0.0		
			S	05 31 39.0	2.5		
			SME	m_B=5.7		6.0	3.20
			LN	Ms=7.0		10.0	281
			LE			10.0	247
XAN	14.9	315	−iP	05 29 18.0	0.0		
			PMZ	m_B=6.6		4.0	4.34
			pP	05 29 25.5	1.9		
			S	05 32 02.0	−1.0		
			SS	05 32 20.0	−0.2		
TIY	15.7	332	−iP	05 29 29.0	0.6		
			PMZ	m_B=7.1		4.0	32.1
			PP	05 29 46.0	5.5		
			S	05 32 25.0	3.3		
			SMN	m_B=6.4		7.0	15.1
			SME			9.0	14.2
			SS	05 32 45.0	5.0		
			LN	Ms=7.1		13.0	363
			LE			12.0	293
BJI	16.6	345	+P	05 29 42.0	2.9		
			PMZ	m_B=6.6		4.0	11.6
			eS	05 32 42.0	0.0		
			SMN	m_B=6.5		12.0	25.0
			SME			12.5	22.4
KMI	17.3	277	−iP	05 29 48.0	−0.2		
			PMZ	m_B=6.4		5.0	8.50
			sP	05 30 01.0	3.3		
			PP	05 30 04.0	2.0		
			S	05 33 02.0	4.5		
			SMN	m_B=6.2		7.0	8.50
			LG_2	05 35 21.0	5.2		
			LE	Ms=6.7		12.0	183
CD2	17.3	297	iP	05 29 48.0	−0.3		
			PMZ	m_B=6.7		5.0	18.6
			iS	05 32 58.0	−0.8		
			sS	05 33 08.0	−0.1		
SNY	17.8	5	+iP	05 29 56.0	1.9		
			sP	05 30 03.6	−0.3		
			iS	05 33 17.0	7.7		
			SMN	m_B=6.6		7.5	5.98
			SME			7.0	21.6
			LN	Ms=6.2		11.0	38.1
			LE			13.0	35.3
HHC	18.7	335	+iP	05 30 07.4	1.0		
			PMZ	m_B=6.6		5.0	13.1
			PP	05 30 22.0	0.3		
			iS	05 33 41.0	9.1		
			SMN	m_B=6.7		12.0	29.3
			SME			11.0	28.7
			LN	Ms=6.6		10.0	69.0
			LE			10.0	79.6
BTO	19.2	332	+iP	05 30 12.4	1.1		
			PMZ	m_B=7.0		5.0	33.3
			sP	05 30 19.0	−2.0		
			PP	05 30 30.0	2.5		
			iS	05 33 42.0	0.9		
			SMN	m_B=6.8		8.0	35.1

			SME			8.0	13.9
			sS	05 33 49.0	−1.5		
LZH	19.5	312	+iP	05 30 17.0	1.8		
			PMZ	m_B=7.0		5.0	38.7
			PP	05 30 37.0	4.8		
			S	05 33 51.0	3.3		
CN2	19.9	8	+iP	05 30 19.0	−0.6		
			PMZ	m_B=6.6		5.0	14.5
			pP	05 30 25.0	−1.0		
			S	05 33 55.0	−1.9		
			SME	m_B=6.6		9.0	25.0
MDJ	21.5	16	+iP	05 30 36.0	0.2		
			PMZ	m_B=6.5		6.0	12.6
			pP	05 30 43.0	0.5		
			PP	05 31 02.0	2.6		
			PcP	05 34 40.0	1.6		
			S	05 34 28.0	0.5		
			SME	m_B=6.4		12.0	18.1
			sS	05 34 38.0	−1.1		
			SS	05 35 03.0	0.5		
			LE	Ms=7.2		16.0	548
GTA	24.0	315	+iP	05 31 01.8	1.1		
			PMZ	m_B=6.5		10.0	18.9
			iS	05 35 16.0	2.3		
			SMN			24.0	4.08
			LN	Ms=6.9		12.0	145
LSA	27.8	288	+P	05 31 37.5	1.1		
			PP	05 32 23.0	−1.2		
			sS	05 36 33.7	6.0		
			SME	m_B=6.7		10.5	19.2
			LE	Ms=6.4		12.5	37.6
WMQ	34.1	314	+P	05 32 31.6	−0.1		
			PMZ	m_B=7.0		4.0	10.1
			PP	05 33 49.5	4.4		
			S	05 37 58.0	3.6		
			SME			30.0	38.0
			LN	Ms=7.0		13.0	111
KSH	41.3	303	+iP	05 33 35.0	2.2		
			PcP	05 35 37.0	6.2		
			S	05 39 47.0	2.0		
			sS	05 39 56.0	−1.8		
			ScS	05 43 38.0	5.3		
			LE	Ms=7.0		12.0	78.7

1986 5 20
O=05 37 30.4 ± 0.09s
LAT=24.11 N ± 1.41km
LONG=121.61 E ± 1.39km
DEPTH= 30 km ± 0.29km
STATIONS USED = 44, STAND DEV= 2.01s

Ms=5.7/ 2, M_L=5.2/ 1,

QZH	2.9	288	cPn	05 38 15.0	0.4		
			cSn	05 38 48.0	−1.6		
			LE			9.5	36.7
SSE	7.0	357	Pn	05 39 12.0	1.0		
			PMZ			0.8	0.16
			pP	05 39 17.3	−2.4		
			LG_1	05 41 06.5	−3.0		
			LG_2	05 41 25.0	4.5		
			LN			1.2	0.80
GZH	7.6	264	Pn	05 39 21.8	1.6		
			Sn	05 40 42.5	−5.4		
			LN	Ms=5.5		11.0	23.6
			LE			13.0	40.5
NJ2	8.3	344	−P	05 39 30.2	−1.2		
WHN	9.1	316	iP	05 39 40.5	−2.2		
			LG_2	05 42 27.0	−3.5		
QZN	12.1	247	P	05 40 24.0	0.8		
			eS	05 42 36.8	−0.9		
MDJ	21.5	16	+iP	05 42 18.0	−0.8		
GTA	23.9	315	−iP	05 42 44.6	1.6		
KSH	41.3	303	eP	05 45 17.8	2.8		
			PP	05 46 56.0	2.7		
			eS	05 51 30.0	2.8		

1986 5 20
O=05 47 43.1 ± 0.10s
LAT=24.14 N ± 0.91km
LONG=121.51 E ± 0.88km
DEPTH= 6 km ± 0.21km
STATIONS USED = 11, STAND DEV= 2.94s

M_L=4.1/ 3,

QZH	2.8	287	cPn	05 48 29.0	0.6		
			Sn	05 49 01.0	−3.2		
			SMN	M_L=3.8		0.4	0.37
			SME			0.9	0.45

1986 5 20
O=06 02 02.5 ± 0.10s
LAT=41.00 N ± 1.73km
LONG= 78.73 E ± 1.54km
DEPTH= 23 km ± 0.42km
STATIONS USED = 48, STAND DEV= 2.42s

M_L=5.0/ 3,

KSH	2.6	235	Pn	06 02 50.4	6.5
			Sg	06 03 29.3	4.8
WMQ	7.2	64	Pn	06 03 50.4	3.3
			Pg	06 04 13.6	3.8
			Sn	06 05 12.2	1.8
			Sg	06 05 50.0	1.6

LSA	15.1	134	P	06 05 39.0	1.6	
CD2	22.6	109	eP	06 07 04.1	1.4	
BTO	23.6	81	eP	06 07 15.6	2.3	
HHC	24.7	79	P	06 07 24.6	0.6	
XAN	24.9	96	+iP	06 07 25.4	0.3	
TIY	26.2	86	eP	06 07 33.2	−4.3	
GYA	27.2	113	+P	06 07 47.6	0.2	
BJI	28.3	79	eP	06 07 56.0	−1.2	

1986 5 20
O = 06 48 58.3 ± 0.40s
LAT = 24.13 N ± 2.44km
LONG = 121.52 E ± 2.04km
DEPTH = 12 km ± 0.23km
STATIONS USED = 6, STAND DEV = 2.63s
M_L = 3.5 / 2,

QZH	2.8	288	ePn	06 49 43.7	0.5	
			Sn	06 50 17.0	−1.7	
			SMN	M_L = 3.4	0.5	0.20
			SME		0.5	0.11
NJ2	8.2	344	eP	06 51 00.0	−0.7	
			S	06 52 29.3	−5.1	
			LE		1.0	0.080

1986 5 20
O = 07 07 36.2 ± 0.08s
LAT = 41.21 N ± 1.35km
LONG = 78.71 E ± 1.07km
DEPTH = 25 km ± 0.19km
STATIONS USED = 32, STAND DEV = 1.99s
M_L = 4.7 / 5,

KSH	2.7	231	ePn	07 08 23.4	4.3	
			S*	07 09 01.7	7.0	
			SMN	M_L = 4.7	0.6	3.50
			SME		0.7	4.50
WMQ	7.1	66	Pn	07 09 22.8	3.2	
			Sn	07 10 45.0	3.0	
			SMN	M_L = 4.9	0.8	0.24
			SME		1.4	0.73
GTA	16.2	89	eP	07 11 28.1	3.9	
			LN		1.0	0.020
LZH	20.3	96	eP	07 12 12.0	−1.0	
CD2	22.6	109	eP	07 12 39.1	2.1	
XAN	24.9	97	eP	07 12 58.8	−0.2	
TIY	26.2	87	eP	07 13 12.2	1.1	

1986 5 20
O = 07 32 10.0 ± 0.16s
LAT = 41.05 N ± 1.82km
LONG = 78.86 E ± 1.74km
DEPTH = 12 km ± 0.31km
STATIONS USED = 26, STAND DEV = 2.71s
M_L = 4.5 / 3,

KSH	2.7	235	Pg	07 33 00.0	1.8	
			Sg	07 33 36.0	0.9	
			LN		0.5	3.20
			LE		0.7	3.80
WMQ	7.1	64	Pn	07 33 58.4	4.1	
			Pg	07 34 20.5	5.1	
			Sn	07 35 19.2	2.1	
			SMN	M_L = 4.6	1.2	0.28
			SME		1.0	0.28
LZH	20.1	96	eP	07 36 45.0	−2.2	
CD2	22.5	109	eP	07 37 12.4	1.4	
XAN	24.8	97	eP	07 37 33.0	−0.2	
TIY	26.1	86	eP	07 37 46.0	0.3	
GYA	27.2	114	P	07 37 55.0	−0.8	

1986 5 20
O = 08 27 03.7 ± 0.10s
LAT = 24.14 N ± 0.72km
LONG = 121.52 E ± 1.42km
DEPTH = 19 km ± 0.15km
STATIONS USED = 11, STAND DEV = 2.38s
M_L = 3.4 / 1,

QZH	2.8	287	ePn	08 27 47.8	0.0	
			Sn	08 28 20.4	−2.3	
			SMN	M_L = 3.4	0.5	0.18
			SME		0.5	0.13
NJ2	8.2	344	−P	08 29 04.0	−1.1	
			eS	08 30 32.4	−6.0	
			LN		1.0	0.070
XAN	14.8	315	eP	08 30 32.5	−1.3	

1986 5 20
O = 10 12 29.1 ± 0.52s
LAT = 51.41 N ± 4.30km
LONG = 175.25 W ± 2.16km
DEPTH = 50 km ± 4.58km
STATIONS USED = 17, STAND DEV = 3.50s

SNY	42.0	282	+iP	10 20 18.6	1.4
BJI	47.5	284	eP	10 21 00.0	−1.8
TIY	51.3	284	P	10 21 31.4	0.8
XAN	55.8	283	eP	10 22 03.1	−1.2
LZH	57.5	288	eP	10 22 17.0	0.7
WMQ	61.2	305	eP	10 22 33.0	−8.6

1986 5 20
O = 10 53 20.8 ± 0.24s
LAT = 51.24 N ± 4.05km

LONG = 175.29 W ± 2.25km
DEPTH = 40 km ± 2.38km
STATIONS USED = 42, STAND DEV = 1.66s

MDJ	36.8	282	eP	11 00 24.5	−2.3			
CN2	39.7	283	eP	11 00 49.4	−2.1			
SNY	42.0	282	+iP	11 01 11.2	1.2			
DL2	44.9	280	eP	11 01 33.0	−0.6			
BJI	47.6	284	eP	11 01 54.5	−0.2			
TIA	49.4	280	eP	11 02 08.2	−0.6			
NJ2	51.0	275	eP	11 02 23.0	1.6			
TIY	51.3	284	P	11 02 24.0	0.5			
XAN	55.8	283	eP	11 02 54.3	−2.8			
LZH	57.5	289	eP	11 03 07.5	−1.8			
WMQ	61.2	305	P	11 03 33.0	−1.9			
GYA	62.5	279	eP	11 03 53.8	11.2			
LSA	69.6	292	+iP	11 04 28.4	−0.2			
KSH	70.4	309	eP	11 04 33.5	0.2			

1986 5 20
O = 11 08 30.5 ± 0.08s
LAT = 50.96 N ± 0.90km
LONG = 176.38 W ± 0.69km
DEPTH = 36 km ± 0.74km
STATIONS USED = 14, STAND DEV = 1.04s

XAN	55.2	283	eP	11 18 02.0	−1.0			

1986 5 20
O = 11 50 18.1 ± 0.14s
LAT = 50.94 N ± 4.29km
LONG = 175.07 W ± 1.96km
DEPTH = 52 km ± 1.76km
STATIONS USED = 40, STAND DEV = 2.10s

MDJ	37.0	282	eP	11 57 22.5	−2.0			
SNY	42.2	282	−iP	11 58 08.5	0.9			
DL2	45.1	280	eP	11 58 32.5	1.3			
BJI	47.8	285	eP	11 58 52.5	0.1			
BTO	51.1	289	eP	11 59 18.3	−0.2			
NJ2	51.2	275	−P	11 59 20.6	1.9			
TIY	51.5	285	eP	11 59 21.0	−0.1			
XAN	56.1	284	eP	11 59 52.7	−1.9			
LZH	57.8	289	−P	12 00 06.5	−0.4			
CD2	61.4	285	eP	12 00 31.4	−0.2			
WMQ	61.5	305	P	12 00 30.6	−2.2			
GYA	62.7	279	P	12 00 40.2	−0.5			

1986 5 20
O = 13 48 34.2 ± 0.17s
LAT = 50.96 N ± 4.02km
LONG = 176.34 W ± 1.43km
DEPTH = 40 km ± 1.91km
STATIONS USED = 50, STAND DEV = 1.44s
Ms = 4.9 / 3,

MDJ	36.2	282	eP	13 55 32.5	−2.7			
CN2	39.1	283	eP	13 56 01.0	0.9			
SNY	41.4	281	−iP	13 56 18.6	0.1			
			eS	14 02 31.0	0.8			
			LN	Ms = 4.4		22.0	0.38	
BJI	47.0	284	eP	13 57 03.5	−0.1			
TIA	48.8	279	eP	13 57 17.0	−0.5			
			LN	Ms = 5.2		14.0	0.99	
HHC	49.3	288	P	13 57 22.0	0.2			
BTO	50.4	288	eP	13 57 31.0	1.0			
TIY	50.7	284	P	13 57 33.0	0.5			
			LE	Ms = 4.9		14.0	0.48	
XAN	55.3	283	+P	13 58 05.2	−1.1			
LZH	57.0	288	P	13 58 19.5	0.6			
CD2	60.6	284	eP	13 58 43.7	0.0			
WMQ	60.9	304	P	13 58 44.0	−1.7			
GYA	61.9	278	P	13 58 52.0	−0.7			
KMI	65.3	280	eP	13 59 14.5	−0.7			
KSH	70.0	308	eP	13 59 45.5	0.9			

1986 5 20
O = 16 48 47.8 ± 0.16s
LAT = 24.92 N ± 2.09km
LONG = 122.80 E ± 1.87km
DEPTH = 5 km ± 1.60km
STATIONS USED = 27, STAND DEV = 3.31s
Ms = 4.0 / 3, M_L = 3.8 / 4,

QZH	3.8	271	cPn	16 49 45.7	−1.9			
			Sn	16 50 32.7	−2.3			
			SMN	M_L = 3.8		0.9	0.26	
			SME			1.2	0.16	
SSE	6.3	347	ePg	16 50 35.0	−4.4			
			LE	Ms = 3.7		12.0	0.88	
GYA	14.6	279	eP	16 52 22.0	4.1			
XAN	15.1	310	+P	16 52 29.6	5.6			
			LN	Ms = 4.1		10.0	0.42	
CN2	19.0	6	eP	16 53 13.0	0.4			
LZH	19.7	309	P	16 53 21.5	−0.1			

1986 5 20
O = 21 57 06.8 ± 0.35s
LAT = 7.41 S ± 2.40km
LONG = 106.45 E ± 3.64km
DEPTH = 84 km ± 4.99km
STATIONS USED = 54, STAND DEV = 1.70s
Ms = 4.9 / 9, m_B = 5.6 / 9

QZN	26.5	7	eP	22 02 29.8	−8.5			
			eS	22 07 08.0	3.5			

			LN	Ms=4.6	15.0	0.90
KMI	32.5	354	−P	22 03 34.0	1.5		
			eS	22 08 44.0	3.0		
			LN	Ms=4.9	15.0	1.20
GYA	33.7	0	P	22 03 42.8	0.7		
			pP	22 04 01.0	−0.3		
			PcP	22 06 21.0	1.2		
			S	22 08 57.0	−0.2		
			ScP	22 10 00.0	4.5		
CD2	38.2	356	eP	22 04 20.4	0.1		
			S	22 10 06.6	0.1		
			LN	Ms=5.0	16.0	1.34
SSE	40.8	20	eP	22 04 44.0	2.1		
			PMZ		1.2	0.040
			epP	22 05 02.0	0.4		
NJ2	41.0	16	+P	22 04 45.8	2.4		
			ScP	22 10 26.4	3.6		
			S	22 10 50.0	1.6		
XAN	41.3	3	+P	22 04 45.4	−0.5		
			S	22 10 52.0	−0.8		
			LN	Ms=4.8	10.0	0.42
LZH	43.3	357	P	22 05 04.0	1.2		
			eS	22 11 25.0	0.8		
TIA	44.5	12	eP	22 05 12.4	0.1		
TIY	45.2	7	eP	22 05 18.0	0.0		
			S	22 11 52.0	1.7		
			SME	m_B=5.7	6.0	0.64
GTA	47.0	353	+iP	22 05 32.4	0.5		
			ScP	22 10 50.5	3.3		
			S	22 12 16.1	0.9		
			SMN	m_B=5.1	12.0	0.31
			LN	Ms=5.0	15.0	0.71
BTO	47.9	4	eP	22 05 39.0	0.2		
			sP	22 06 05.0	−3.7		
			S	22 12 28.0	0.2		
BJI	48.1	10	eP	22 05 40.0	−0.1		
			ScP	22 10 55.0	3.3		
			eS	22 12 30.0	−1.3		
			ScS	22 15 24.0	2.7		
			SME	m_B=5.3	7.0	0.29
DL2	48.2	16	eP	22 05 41.0	−0.1		
HHC	48.2	5	P	22 05 41.0	−0.7		
SNY	51.4	16	+iP	22 06 05.0	−1.0		
			PMZ	m_B=5.9	5.0	0.80
			S	22 13 12.0	−5.3		
			ScS	22 15 47.0	2.9		
			LN	Ms=4.9	30.0	1.03
WMQ	53.7	343	P	22 06 22.5	−0.7		
			PMZ		1.7	0.16
			pP	22 06 41.5	−2.0		
			PP	22 08 25.0	−1.3		
			ScP	22 11 19.5	3.5		
			S	22 13 49.0	0.4		
			SMN	m_B=5.6	6.0	0.43
			sS	22 14 19.0	−6.0		
			ScS	22 16 03.0	2.9		
CN2	53.8	17	+iP	22 06 22.3	−1.2		
			PMZ		3.0	0.60
			pP	22 06 41.5	−2.4		
			sP	22 06 48.0	−5.7		
			iPcP	22 07 28.0	0.4		
			ScP	22 11 19.0	2.8		
			S	22 13 46.0	−3.3		
			SME	m_B=5.6	6.0	0.50
			sS	22 14 18.0	−7.7		
			iScS	22 16 02.0	1.6		
KSH	54.5	331	+iP	22 06 29.7	0.9		
			PcP	22 07 31.6	1.4		
			PP	22 08 31.6	−1.4		
			iS	22 13 59.7	−0.4		
MDJ	55.8	20	+P	22 06 36.5	−1.8		

1986 5 21

O=03 19 29.9 ± 0.04s
LAT=80.82 N ± 0.78km
LONG=120.76 W ± 0.63km
DEPTH= 10 km ± 0.17km
STATIONS USED = 25, STAND DEV= 0.76s

CN2	50.7	301	+P	03 28 31.0	−1.1
BJI	55.6	309	eP	03 29 08.5	−0.1
XAN	62.4	314	P	03 29 55.6	−0.3
GYA	70.1	315	P	03 30 46.2	0.8

1986 5 21

O=03 56 56.8 ± 0.22s
LAT= 3.34 S ± 2.93km
LONG= 76.63 W ± 3.40km
DEPTH=114 km ± 2.12km
STATIONS USED = 17, STAND DEV= 3.22s

TIY	144.8	347	PKP	04 16 21.0	−0.4
LZH	147.4	359	+PKP	04 16 27.5	1.6
XAN	149.0	351	cPKP	04 16 32.6	4.2

1986 5 21

O=04 09 17.8 ± 0.09s
LAT=43.28 N ± 1.30km
LONG=145.27 E ± 0.99km
DEPTH= 95 km ± 0.28km
STATIONS USED = 9, STAND DEV= 1.52s

BJI	21.9	271	eP	04 14 05.0	0.2

XAN	29.6	264	eP	04 15 15.4	−1.6		
			1986 5 21				
			O = 05 47 10.1	**± 0.09s**			
			LAT = 43.83 N	**± 2.30km**			
			LONG = 148.32 E	**± 1.52km**			
			DEPTH = 32 km	**± 0.84km**			
			STATIONS USED = 93, STAND DEV = 1.65s				
			Ms = 6.6 / 39,	**m_B = 6.4 / 33**			
MDJ	13.5	280	+iP	05 50 21.0	−0.5		
			PMZ	m_B = 6.3		8.0	4.17
			S	05 52 46.0	−4.6		
			LN	Ms = 6.9		16.0	504
			LE			16.0	205
CN2	16.5	278	+iP	05 50 58.5	−2.5		
			PMZ	m_B = 6.3		5.0	6.50
			eS	05 53 54.0	−8.8		
			SMN	m_B = 6.3		8.0	12.2
			LZ	Ms = 6.7		13.0	184
SNY	18.2	272	+iP	05 51 21.0	−1.8		
			PMZ	m_B = 6.4		10.0	18.1
			S	05 54 45.0	3.2		
			SMN	m_B = 6.1		10.0	5.76
			SME			13.0	9.35
			LN	Ms = 6.3		13.0	39.2
			LE			13.0	57.7
DL2	20.6	265	+iP	05 51 49.0	−0.2		
			PMZ	m_B = 5.9		8.0	5.10
			pP	05 51 59.5	1.9		
			sP	05 52 06.0	4.2		
			PP	05 52 15.0	4.5		
			S	05 55 30.0	−2.4		
			SME	m_B = 6.5		10.0	16.2
			LN	Ms = 6.5		15.0	68.7
			LE			16.0	77.1
BJI	24.1	272	+iP	05 52 24.0	−0.4		
			PMZ	m_B = 6.3		10.0	13.2
			eS	05 56 38.0	0.5		
			SMN			15.0	40.3
			SME			13.0	13.3
			LN	Ms = 6.6		18.0	118
SSE	24.9	248	+iP	05 52 32.0	0.3		
			PMZ	m_B = 6.4		8.0	12.1
			pP	05 52 43.0	2.5		
			sP	05 52 49.0	4.6		
			PcP	05 56 08.0	0.4		
			S	05 56 46.0	−3.6		
			SMN	m_B = 6.0		10.0	2.67
			SME			10.0	2.82
			sS	05 57 09.0	4.3		
			SS	05 57 50.0	1.7		
			ScP	05 59 42.0	−0.7		
			PcS	05 59 48.0	1.6		
			LE	Ms = 6.7		18.0	152
TIA	25.0	263	+iP	05 52 32.7	0.1		
			PMZ	m_B = 6.1		9.5	6.63
			S	05 56 53.7	2.7		
NJ2	25.9	253	+P	05 52 41.5	0.1		
			PMZ	m_B = 6.5		8.0	9.00
			S	05 57 09.0	2.5		
			LN	Ms = 6.6		14.0	87.0
HHC	27.2	277	−iP	05 52 53.6	0.2		
			S	05 57 35.0	7.4		
			SMN			16.0	44.5
			SME			18.0	104
			LN	Ms = 6.7		12.0	27.8
			LE			12.0	71.8
TIY	27.7	270	+iP	05 52 58.5	0.5		
			PMZ	m_B = 6.6		10.0	13.1
WHN	29.9	255	P	05 53 16.0	−1.6		
			S	05 58 12.0	0.9		
			SMN			13.0	21.6
			ScP	06 00 03.0	5.1		
			LE	Ms = 6.6		14.0	59.3
QZH	30.7	242	+P	05 53 24.0	−0.5		
			PMZ	m_B = 6.2		6.0	2.61
			S	05 58 24.5	1.2		
			LN	Ms = 6.4		14.0	36.1
			LE			14.0	19.7
XAN	31.9	266	+P	05 53 35.0	−0.4		
			PMZ	m_B = 6.1		6.0	1.84
			PP	05 54 49.0	8.0		
			PPMZ			8.0	2.40
			PcP	05 56 20.0	−4.9		
			S	05 58 46.0	3.6		
			SMN	m_B = 6.4		10.0	5.88
			SME			14.0	6.68
			sS	05 59 00.0	1.7		
			LN	Ms = 5.6		14.0	3.14
			LE			14.0	5.45
LZH	34.6	273	+iP	05 53 59.0	0.1		
			sP	05 54 13.0	1.3		
			ePP	05 55 23.0	7.7		
			eS	05 59 27.0	1.2		
			sS	05 59 34.0	−6.4		
			LN	Ms = 6.9		15.0	105
			LE			16.0	31.1
GZH	35.4	246	+P	05 54 04.3	−1.1		
			S	05 59 34.0	−2.6		
			SMN			15.0	8.92

			SME			14.0	9.60
			LN		Ms=6.6	20.0	43.5
			LE			22.0	64.7
GTA	36.1	280	+P	05 54 11.9	0.2		
			PMZ		m_B=6.3	11.0	5.73
			PPMZ			11.5	6.44
			PP	05 55 36.0	2.2		
			PcP	05 56 37.0	0.2		
			iS	05 59 50.0	1.1		
			SS	06 02 17.1	5.0		
			SMN		m_B=6.6	11.5	10.9
			SME			12.0	7.90
			LE		Ms=6.7	16.0	71.3
CD2	37.3	265	eP	05 54 21.0	−0.2		
			PP	05 55 49.0	0.5		
			S	06 00 07.0	1.8		
			LN		Ms=6.8	14.0	37.3
			LE			15.0	58.0
GYA	37.8	257	+P	05 54 26.0	0.5		
			PP	05 55 52.0	−2.5		
			S	06 00 12.0	−0.9		
			ScP	06 00 31.0	5.6		
			LN		Ms=7.0	17.0	102
			LE			17.0	83.0
QZN	40.6	245	P	05 54 46.0	−2.7		
			PMZ		m_B=6.2	10.0	4.00
			PP	05 56 23.0	−2.7		
			PcP	05 56 48.0	−2.6		
			ScP	06 00 28.0	−8.2		
			S	06 00 48.0	−7.1		
			SMN		m_B=6.4	12.0	6.20
			SME			12.5	6.70
			SS	06 03 49.0	−2.0		
			LN		Ms=6.8	19.0	52.2
			LE			19.0	63.5
KMI	41.4	258	+iP	05 54 56.0	0.5		
			PMZ		m_B=6.5	6.0	4.30
			pP	05 55 08.0	3.6		
			PcS	06 00 44.0	0.9		
			S	06 01 06.0	−1.0		
			SMN		m_B=6.4	12.0	8.50
			SS	06 04 10.0	2.7		
			LN		Ms=6.8	15.0	58.8
WMQ	42.9	292	+iP	05 55 08.0	0.4		
			PMZ		m_B=6.3	12.0	5.71
			PP	05 56 54.0	4.4		
			S	06 01 31.0	2.2		
			SMN			20.0	14.3
			LN		Ms=7.2	13.0	117
LSA	47.0	272	P	05 55 42.3	0.9		
			+P	05 55 42.3	2.0		
			S	06 02 28.0	−1.0		
			SME		m_B=6.4	11.0	5.64
			sS	06 02 48.0	2.8		
KSH	52.6	292	+iP	05 56 25.0	0.9		
			PP	05 58 31.0	7.3		
			iS	06 03 55.0	6.6		
			LE		Ms=7.3	14.0	116

1986 5 21

O=06 16 15.2 ± 0.12s
LAT=43.85 N ± 3.97km
LONG=148.29 E ± 2.13km
DEPTH= 31 km ± 1.64km
STATIONS USED = 61, STAND DEV= 2.25s

MDJ	13.4	280	eP	06 19 26.0	−0.4	
CN2	16.5	278	eP	06 20 04.0	−1.9	
SNY	18.2	272	+P	06 20 28.1	0.5	
DL2	20.6	265	eP	06 20 54.2	0.0	
BJI	24.1	272	eP	06 21 29.5	0.2	
			PMZ		2.0	0.097
SSE	24.9	248	eP	06 21 36.0	−0.8	
TIA	24.9	263	eP	06 21 38.7	1.1	
NJ2	25.9	253	+P	06 21 49.2	2.8	
HHC	27.2	276	eP	06 21 59.0	0.7	
BTO	28.4	277	eP	06 22 09.4	0.3	
XAN	31.9	266	P	06 22 37.8	−2.6	
LZH	34.6	273	+P	06 23 04.0	0.1	
GTA	36.1	280	P	06 23 17.3	0.6	
CD2	37.2	265	eP	06 23 27.0	0.8	
GYA	37.7	257	P	06 23 30.0	−0.6	
WMQ	42.8	292	P	06 24 13.0	0.4	
KSH	52.6	292	eP	06 25 34.0	4.9	

1986 5 21

O=06 52 07.4 ± 0.10s
LAT=43.75 N ± 2.90km
LONG=148.44 E ± 1.56km
DEPTH= 30 km ± 1.41km
STATIONS USED = 60, STAND DEV= 2.15s

MDJ	13.6	280	eP	06 55 19.5	−0.8	
CN2	16.6	278	+P	06 55 57.8	−2.0	
SNY	18.3	273	eP	06 56 20.6	−0.8	
DL2	20.7	266	eP	06 56 42.0	−5.6	
SSE	24.9	249	eP	06 57 30.0	0.2	
			epP	06 57 40.0	1.8	
TIA	25.0	263	−P	06 57 31.7	0.8	
NJ2	26.0	253	eP	06 57 39.8	0.3	
HHC	27.3	277	eP	06 57 51.7	−0.1	
BTO	28.5	277	eP	06 58 02.6	0.0	

XAN	32.0	266	P	06 58 33.0	−0.7	
LZH	34.7	273	+P	06 58 57.5	0.2	
GTA	36.2	280	+P	06 59 10.5	0.4	
CD2	37.3	265	eP	06 59 19.6	0.2	
GYA	37.8	257	P	06 59 23.0	−0.7	
KMI	41.4	259	+P	06 59 54.0	0.3	
WMQ	43.0	292	eP	07 00 06.5	0.4	
KSH	52.8	292	eP	07 01 23.8	1.3	
			eS	07 08 53.8	6.2	

1986 5 21
O = 07 05 12.4 ± 0.15s
LAT = 51.28 N ± 1.39km
LONG = 176.16 W ± 0.92km
DEPTH = 37 km ± 1.29km
STATIONS USED = 34, STAND DEV = 1.25s

MDJ	36.2	281	eP	07 12 11.0	−3.2		
CN2	39.2	283	eP	07 12 37.6	−1.4		
SNY	41.4	281	+P	07 12 58.0	0.5		
DL2	44.3	279	eP	07 13 21.0	−0.3		
BJI	47.0	284	eP	07 13 42.5	0.1		
			PMZ			2.0	0.097
TIA	48.8	279	+P	07 13 56.3	−0.3		
XAN	55.3	283	+P	07 14 44.0	−1.2		
CD2	60.6	284	eP	07 15 22.5	0.0		
GYA	62.0	278	eP	07 15 31.6	−0.2		
KMI	65.4	280	eP	07 15 54.0	−0.2		

1986 5 21
O = 07 06 26.2 ± 0.08s
LAT = 19.14 S ± 1.95km
LONG = 174.20 W ± 1.63km
DEPTH = 112 km ± 0.80km
STATIONS USED = 33, STAND DEV = 1.54s

MDJ	81.5	323	−P	07 18 33.0	−0.5		
CN2	83.5	321	eP	07 18 42.4	−1.1		
SNY	83.5	318	eP	07 18 43.7	0.0		
BJI	87.5	314	eP	07 19 04.0	0.8		
XAN	90.2	306	P	07 19 17.4	1.3		

1986 5 21
O = 10 03 58.8 ± 0.06s
LAT = 4.75 S ± 1.09km
LONG = 103.13 E ± 1.36km
DEPTH = 72 km ± 0.15km
STATIONS USED = 31, STAND DEV = 0.90s

GYA	31.2	6	P	10 10 15.2	1.3		
CD2	35.5	1	eP	10 10 51.0	0.5		
XAN	39.0	8	eP	10 11 20.1	0.2		
GTA	44.0	356	+iP	10 12 02.2	0.5		
BJI	46.2	14	eP	10 12 19.0	0.6		
WMQ	50.3	346	+P	10 12 50.5	−0.2		
CN2	52.3	20	+P	10 13 04.8	−1.2		

1986 5 21
O = 10 34 42.1 ± 0.08s
LAT = 59.53 N ± 2.55km
LONG = 164.58 E ± 1.26km
DEPTH = 32 km ± 0.07km
STATIONS USED = 26, STAND DEV = 1.49s

CN2	28.4	254	eP	10 40 34.0	−2.0		
BJI	35.8	259	eP	10 41 42.0	1.3		
XAN	44.1	260	eP	10 42 36.8	−12.1		
GTA	44.6	273	P	10 42 54.2	0.8		
WMQ	47.4	287	P	10 43 17.0	1.5		

1986 5 21
O = 14 52 20.8 ± 0.24s
LAT = 23.99 N ± 3.69km
LONG = 121.69 E ± 3.11km
DEPTH = 33 km ± 1.27km
STATIONS USED = 49, STAND DEV = 3.70s
Ms = 4.7 / 8, M_L = 4.7 / 4,

QZH	3.0	289	cPn	14 53 05.5	−0.7		
			Sn	14 53 40.7	−1.6		
			LG_2	14 53 57.0	−2.2		
			LN			8.0	5.51
			LE			8.0	5.96
SSE	7.1	356	cPn	14 54 02.5	−0.2		
			LG_2	14 56 05.2	−9.7		
			LN			1.0	0.11
			LE			1.0	0.13
GZH	7.7	265	Pn	14 54 11.5	0.3		
			Sn	14 55 32.5	−7.0		
			LN			0.8	0.30
			LE			1.0	0.22
NJ2	8.4	343	eP	14 54 20.0	−3.4		
			eS	14 55 51.2	−7.1		
			LZ	Ms = 4.5		10.0	2.80
WHN	9.2	317	eP	14 54 30.5	−4.3		
			S	14 56 11.0	−7.4		
			LG_1	14 57 12.0	1.1		
			LE			1.0	0.37
QZN	12.1	248	eP	14 55 18.0	4.3		
GYA	13.8	283	eP	14 55 36.6	−0.4		
			S	14 58 04.0	−5.8		
			SMN			1.4	0.40
			SME			1.4	0.10
DL2	14.9	360	eP	14 55 51.1	0.5		
XAN	15.0	315	eP	14 55 51.4	−0.8		

			LE			11.0	2.25
TIY	15.8	332	eP	14 56 06.1	3.3		
			LG_2	15 01 06.0	3.6		
			LN	Ms=4.9		9.0	2.10
			LE			10.0	1.23
BJI	16.7	345	eP	14 56 23.0	9.4		
			SS	14 59 46.0	9.4		
			LN	Ms=4.3		11.0	0.67
CD2	17.3	297	eP	14 56 24.4	2.3		
LZH	19.6	312	eP	14 56 51.0	2.0		
			eS	15 00 23.0	0.0		
			LN	Ms=4.7		9.0	0.84
			LE			11.0	0.75
CN2	20.0	8	eP	14 56 52.5	−1.2		
			eS	15 00 23.5	−8.5		
			LZ	Ms=4.7		14.0	1.50
MDJ	21.6	15	eP	14 57 09.5	−0.2		
WMQ	34.1	314	P	14 58 55.7	−9.5		

1986 5 21
O=15 02 28.7 ± 2.05s
LAT=24.39 N ± 14.67km
LONG=121.60 E ± 10.67km
DEPTH= 18 km ± 0.60km
STATIONS USED = 8, STAND DEV= 3.82s
M_L=3.8/ 4,

QZH	2.8	282	ePn	15 03 13.7	0.7		
			Sn	15 03 48.3	0.2		
			SMN	M_L=3.6		0.8	0.35
			SME			0.9	0.16
SSE	6.7	357	ePn	15 04 07.0	0.4		
			eLG_2	15 06 11.0	1.5		
			LE			1.0	0.021
NJ2	8.0	343	ePn	15 04 27.8	3.1		
			Sn	15 06 00.0	2.7		
			LE			1.0	0.080
XAN	14.6	314	+P	15 06 11.5	14.5		

1986 5 21
O=17 30 02.6 ± 0.14s
LAT=51.80 N ± 6.27km
LONG=175.93 W ± 2.17km
DEPTH= 26 km ± 0.94km
STATIONS USED = 54, STAND DEV= 2.04s
Ms=5.0/ 3,

CN2	39.2	282	cP	17 37 31.0	0.1		
SNY	41.5	281	−iP	17 37 50.6	1.1		
			cpP	17 38 07.0	9.4		
			cS	17 44 06.0	2.7		
			LN	Ms=4.8		26.0	1.01
DL2	44.4	279	eP	17 38 14.3	0.9		
BJI	47.0	284	eP	17 38 34.0	−0.2		
TIA	48.9	279	eP	17 38 49.1	0.4		
HHC	49.3	287	eP	17 38 51.0	−1.0		
BTO	50.4	288	−iP	17 39 01.1	0.9		
TIY	50.8	284	eP	17 39 04.2	1.0		
XAN	55.3	283	eP	17 39 35.0	−2.1		
LZH	57.0	288	eP	17 39 48.0	−1.1		
GTA	57.1	293	P	17 39 48.0	−1.7		
			LN	Ms=5.0		21.0	0.76
WMQ	60.6	304	P	17 40 13.5	−0.7		
GYA	62.0	278	eP	17 40 24.0	0.0		
LSA	69.0	291	P	17 41 08.2	−0.7		
KSH	69.7	308	eP	17 41 16.9	3.8		

1986 5 21
O=17 51 42.2 ± 0.07s
LAT=43.98 N ± 2.48km
LONG=148.35 E ± 1.52km
DEPTH= 30 km ± 1.08km
STATIONS USED = 48, STAND DEV= 1.97s
Ms=4.5/ 4,

MDJ	13.5	279	eP	17 54 54.0	0.1		
CN2	16.5	277	eP	17 55 31.2	−2.3		
DL2	20.6	265	eP	17 56 20.6	−1.4		
BJI	24.1	272	eP	17 56 57.0	0.0		
TIA	25.0	263	eP	17 57 05.7	0.3		
NJ2	26.0	253	eP	17 57 16.0	1.5		
TIY	27.7	269	eP	17 57 31.7	1.0		
BTO	28.4	277	eP	17 57 37.5	0.9		
XAN	31.9	265	eP	17 58 07.2	−1.0		
LZH	34.6	272	+P	17 58 31.5	−0.1		
GTA	36.1	280	+P	17 58 44.5	0.4		
			LZ	Ms=4.7		14.0	0.60
CD2	37.3	265	eP	17 58 54.4	0.4		
GYA	37.8	256	eP	17 58 57.2	−1.3		

1986 5 21
O=20 36 38.3 ± 0.28s
LAT=23.89 N ± 2.45km
LONG=121.79 E ± 2.50km
DEPTH= 3 km ± 3.59km
STATIONS USED = 5, STAND DEV= 3.71s
M_L=3.1/ 2,

1986 5 21
O=22 12 16.0 ± 0.10s
LAT=51.74 N ± 2.26km
LONG=175.21 W ± 1.09km
DEPTH= 38 km ± 1.03km

STATIONS USED = 44, STAND DEV = 1.11s

MDJ	36.7	281	eP	22 19 21.0	−0.8
CN2	39.7	283	eP	22 19 45.6	−0.9
SNY	41.9	281	eP	22 20 05.3	0.3
DL2	44.9	279	P	22 20 29.0	0.1
TIA	49.3	279	−P	22 21 04.0	0.0
SSE	50.2	272	P	22 21 11.5	0.6
NJ2	51.0	274	−P	22 21 16.6	−0.4
WHN	54.9	276	P	22 21 44.5	−0.9
GTA	57.5	294	P	22 22 02.4	−2.1
KMI	65.9	280	+P	22 23 00.0	−0.9
LSA	69.4	292	P	22 23 23.0	−0.3

1986 5 21

O = 23 23 27.7 ± 0.16s
LAT = 24.11 N ± 1.82km
LONG = 121.72 E ± 1.06km
DEPTH = 3 km ± 1.80km
STATIONS USED = 11, STAND DEV = 4.14s
M_L = 3.4 / 5,

QZH	3.0	287	ePn	23 24 15.1	−0.8		
			eSn	23 24 49.8	−4.2		
			SMN	M_L = 3.3		1.0	0.14
			SME			1.0	0.11
NJ2	8.3	343	ePn	23 25 29.5	0.2		
			Sn	23 27 03.5	−2.7		

1986 5 22

O = 00 59 00.4 ± 0.13s
LAT = 24.87 N ± 1.59km
LONG = 122.95 E ± 1.83km
DEPTH = 26 km ± 0.61km
STATIONS USED = 15, STAND DEV = 3.34s
M_L = 3.4 / 3,

QZH	4.0	272	ePn	00 59 57.2	−2.8		
			SMN	M_L = 3.5		1.3	0.14
			SME			1.0	0.060
SSE	6.4	346	ePn	01 00 37.5	4.0		
			LG_2	01 02 40.0	8.5		
			LE			1.0	0.034

1986 5 22

O = 02 30 09.9 ± 0.10s
LAT = 7.55 S ± 0.68km
LONG = 128.24 E ± 0.56km
DEPTH = 373 km ± 0.95km
STATIONS USED = 7, STAND DEV = 1.40s

SSE	39.0	350	eP	02 37 03.5	−0.2

1986 5 22

O = 06 28 55.0 ± 0.06s
LAT = 22.50 N ± 1.23km
LONG = 144.83 E ± 1.25km
DEPTH = 35 km ± 0.23km
STATIONS USED = 18, STAND DEV = 1.14s

SSE	22.7	297	eP	06 33 54.7	−0.7
			epP	06 34 04.0	−0.6
MDJ	25.4	334	eP	06 34 21.5	0.6
GTA	41.7	304	P	06 36 41.8	−0.6
WMQ	51.3	309	eP	06 37 57.0	−1.1

1986 5 22

O = 08 31 04.4 ± 0.17s
LAT = 24.02 N ± 1.24km
LONG = 121.68 E ± 1.85km
DEPTH = 14 km ± 0.40km
STATIONS USED = 8, STAND DEV = 3.80s
M_L = 3.2 / 3,

QZH	3.0	289	ePn	08 31 48.4	−3.0		
			Sn	08 32 23.0	−5.6		
			SMN	M_L = 3.2		1.3	0.14
			SME			1.0	0.060

1986 5 22

O = 10 29 49.7 ± 0.08s
LAT = 43.87 N ± 2.22km
LONG = 148.26 E ± 1.46km
DEPTH = 35 km ± 0.68km
STATIONS USED = 63, STAND DEV = 1.41s
Ms = 4.9 / 17,

MDJ	13.4	280	eP	10 33 01.2	0.9		
			S	10 35 30.0	1.4		
			LZ	Ms = 4.7		15.0	3.03
CN2	16.5	278	−P	10 33 38.0	−1.8		
			eS	10 36 38.0	−2.7		
SNY	18.2	272	eP	10 34 01.6	0.1		
			eS	10 37 26.0	5.6		
			LN	Ms = 4.6		16.0	1.18
			LE			19.0	1.18
DL2	20.5	265	P	10 34 28.0	−0.1		
BJI	24.1	272	eP	10 35 03.5	0.3		
			eS	10 39 20.0	4.3		
			LN	Ms = 4.7		16.0	0.98
			LE			18.0	0.72
SSE	24.9	248	eP	10 35 12.0	1.2		
			sP	10 35 26.0	1.9		
			esS	10 39 46.0	1.9		
			LN	Ms = 4.6		20.0	0.60
			LE			22.0	1.17
			LZ	Ms = 4.7		20.0	1.45

TIA	24.9	263	+P	10 35 12.0	0.5		
NJ2	25.9	253	−P	10 35 21.4	1.0		
HHC	27.1	276	P	10 35 32.0	−0.2		
			S	10 40 08.0	2.3		
			LN	Ms=5.0		15.0	1.38
			LE			15.0	1.24
TIY	27.7	270	eP	10 35 38.0	1.1		
			LN	Ms=4.5		13.0	0.48
BTO	28.3	277	eP	10 35 43.7	0.7		
			eS	10 40 27.0	1.1		
			LN	Ms=5.0		15.0	1.10
			LE			15.0	1.50
			LZ	Ms=4.9		15.0	1.50
WHN	29.9	255	eP	10 35 56.0	−0.6		
XAN	31.9	266	P	10 36 14.0	−0.3		
LZH	34.6	272	+iP	10 36 38.5	0.7		
			PMZ			1.5	0.16
GTA	36.1	280	+iP	10 36 51.3	0.8		
			i	10 39 17.0			
			LE	Ms=5.0		13.5	1.08
			LZ	Ms=5.2		14.0	1.91
CD2	37.2	265	eP	10 37 00.9	0.8		
KMI	41.3	258	+P	10 37 35.0	0.5		
WMQ	42.8	292	+P	10 37 47.5	1.1		

1986 5 22

O=13 29 51.7 ± 0.06s
LAT=47.00 N ± 1.56km
LONG=145.21 E ± 0.84km
DEPTH=370 km ± 1.08km
STATIONS USED = 65, STAND DEV= 0.92s

MDJ	11.2	263	−iP	13 32 24.7	0.2		
			sP	13 33 37.0	−5.8		
			S	13 34 33.0	7.9		
CN2	14.2	264	−iP	13 32 57.7	−2.3		
			eS	13 35 32.0	0.9		
SNY	16.3	259	−iP	13 33 21.3	0.0		
			PMZ			0.8	0.050
			sP	13 35 00.0	7.9		
			S	13 36 10.4	0.7		
DL2	19.0	253	eP	13 33 49.3	0.4		
BJI	22.1	262	eP	13 34 19.0	0.3		
TIA	23.5	253	eP	13 34 31.6	0.0		
HHC	24.9	268	−P	13 34 43.0	−1.3		
NJ2	25.1	243	+P	13 34 46.0	0.1		
TIY	25.8	261	eP	13 34 53.0	0.5		
BTO	26.0	269	−iP	13 34 55.2	0.3		
XAN	30.2	258	−P	13 35 31.0	−0.4		
LZH	32.5	266	−iP	13 35 52.0	0.8		
GTA	33.6	274	−iP	13 36 01.0	0.7		
			PMZ			1.2	0.15
			ScP	13 41 39.6	0.7		
			ScS	13 45 41.7	1.5		
			SMN			1.5	0.023
CD2	35.6	258	eP	13 36 18.0	0.9		
GYA	36.6	250	P	13 36 25.6	−0.2		
			sP	13 38 22.6	4.7		
			S	13 41 38.4	−2.4		
			ScP	13 41 51.5	1.7		
WMQ	39.7	287	−P	13 36 52.0	0.4		
KMI	40.0	252	−P	13 36 55.0	0.6		
LSA	44.9	267	−P	13 37 33.2	0.0		
KSH	49.5	288	eP	13 38 08.9	0.3		

1986 5 22

O=13 39 06.4 ± 0.11s
LAT=43.77 N ± 2.52km
LONG=148.39 E ± 1.73km
DEPTH= 32 km ± 0.32km
STATIONS USED = 42, STAND DEV= 1.45s

MDJ	13.5	280	eP	13 42 18.7	0.1
SNY	18.3	272	eP	13 43 20.6	0.9
BJI	24.2	272	eP	13 44 21.5	0.4
NJ2	25.9	253	eP	13 44 39.0	1.1
TIY	27.8	270	eP	13 44 53.0	−1.7
BTO	28.4	277	eP	13 45 01.3	0.4
			eS	13 49 45.0	0.1
XAN	32.0	266	P	13 45 31.8	−0.2
LZH	34.7	273	P	13 45 56.5	0.9
GTA	36.2	280	+P	13 46 08.9	0.5
CD2	37.3	265	eP	13 46 17.7	−0.1
GYA	37.8	257	P	13 46 22.4	0.3
WMQ	42.9	292	P	13 47 05.0	0.6

1986 5 22

O=14 44 53.0 ± 0.17s
LAT=31.52 N ± 1.40km
LONG= 91.24 E ± 2.25km
DEPTH= 20 km ± 1.15km
STATIONS USED = 12, STAND DEV= 3.37s

LSA	1.8	182	+Pg	14 45 26.6	0.9
			Sg	14 45 54.5	4.4
GTA	10.5	39	P	14 47 26.0	−0.3
XAN	15.1	76	eP	14 48 28.2	1.1

1986 5 22

O=16 20 48.5 ± 0.13s
LAT=24.42 N ± 0.85km
LONG=121.18 E ± 1.22km
DEPTH= 17 km ± 0.08km

STATIONS USED = 15, STAND DEV = 1.69s							
			M_L=3.5/ 4,				
QZH	2.4	283	cPn	16 21 28.5	0.8		
			Sn	16 22 00.7	2.0		
			SMN	M_L=3.1		0.3	0.10
			SME			0.7	0.13
SSE	6.7	0	cPn	16 22 25.0	−1.0		
			LG_2	16 24 30.5	2.5		
			LN			1.0	0.015
			LE			1.0	0.020
NJ2	7.9	345	+Pn	16 22 44.4	1.6		
			Sn	16 24 15.0	0.9		
			LN			1.0	0.080
XAN	14.4	315	cP	16 24 14.8	1.3		
GTA	23.4	315	eP	16 25 59.5	1.3		
1986 5 22							
O=17 47 23.6			± 0.14s				
LAT=24.01 N			± 1.88km				
LONG=121.73 E			± 1.86km				
DEPTH= 27 km			± 0.36km				
STATIONS USED = 78, STAND DEV= 2.48s							
Ms=5.6/33,			M_L=4.8/ 2,	m_B=5.4/ 9			
QZH	3.0	289	cPn	17 48 08.9	−1.0		
			Sn	17 48 44.9	−1.8		
			LG_1	17 49 01.6	3.7		
			LN			1.3	6.41
			LE			1.2	3.65
SSE	7.1	356	ePn	17 49 06.5	0.6		
			LG_1	17 51 04.5	−1.4		
			LG_2	17 51 19.0	1.9		
			LN			1.5	1.78
			LE			1.5	1.81
GZH	7.7	265	Pn	17 49 15.5	0.4		
			Sn	17 50 40.2	−3.9		
			LN			1.5	3.32
			LE			1.2	0.77
NJ2	8.4	343	−P	17 49 24.0	−2.7		
			S	17 50 56.0	−5.4		
			LZ	Ms=5.2		10.0	16.1
WHN	9.2	316	P	17 49 35.0	−3.3		
			S	17 51 18.0	−4.2		
			LE	Ms=5.4		9.0	16.9
QZN	12.1	248	eP	17 50 17.5	−0.2		
			eS	17 52 30.8	−2.1		
			LN	Ms=5.0		13.0	6.80
			LE			12.0	1.90
TIA	12.8	343	eP	17 50 23.7	−3.1		
			eS	17 52 40.7	−8.6		
			LN	Ms=5.4		9.0	5.42
			LE			8.0	8.58
			LZ	Ms=5.6		9.0	15.9
GYA	13.8	283	P	17 50 40.0	−0.8		
			S	17 53 08.4	−5.7		
			LG_1	17 54 42.0	3.4		
			LE	Ms=5.7		10.0	20.7
XAN	15.0	315	eP	17 50 54.4	−1.4		
			S	17 53 31.8	−9.4		
			SS	17 53 58.0	−0.8		
			LG_1	17 55 16.0	1.3		
			LN	Ms=5.7		8.0	4.21
			LE			10.0	14.9
TIY	15.8	332	+iP	17 51 07.0	0.7		
			SS	17 54 24.0	5.3		
			LN	Ms=5.7		10.0	14.0
			LE			10.0	8.10
BJI	16.7	345	eP	17 51 20.0	3.0		
			PMZ	m_B=5.1		9.0	0.79
			eS	17 54 22.0	1.6		
			LG_1	17 56 11.0	4.2		
			LG_2	17 56 31.0	−2.1		
KMI	17.3	278	eP	17 51 28.0	2.6		
			PP	17 51 42.0	2.6		
			S	17 54 40.0	5.2		
			SS	17 55 02.0	5.8		
			LE	Ms=5.8		10.0	19.7
CD2	17.4	297	eP	17 51 26.2	0.4		
			S	17 54 38.0	2.1		
			sS	17 54 50.0	2.7		
			LE	Ms=5.5		12.0	11.3
			LZ	Ms=5.6		12.0	12.8
SNY	17.8	5	+P	17 51 32.0	0.2		
			PMZ	m_B=5.4		8.0	1.64
			eS	17 54 47.5	0.1		
			LG_2	17 57 15.5	3.4		
			LN	Ms=5.3		11.0	6.11
HHC	18.8	336	+P	17 51 44.0	−0.2		
			PMZ	m_B=5.5		7.0	1.59
			PP	17 52 05.5	5.7		
			sS	17 55 24.5	3.7		
			SMN	m_B=5.3		10.0	1.10
			SME			10.0	0.81
			LN	Ms=5.4		9.0	5.76
			LE			10.0	2.30
			LZ	Ms=5.6		10.0	9.40
BTO	19.2	332	P	17 51 49.5	0.5		
			PMZ	m_B=5.4		7.0	1.30
			PP	17 52 06.0	0.5		
			eS	17 55 20.0	0.7		
			LN	Ms=5.9		10.0	16.8

			LE			10.0	10.6
			LZ	Ms = 5.7		10.0	12.1
LZH	19.6	312	P	17 51 53.5	0.8		
			PMŻ			2.5	0.054
			sS	17 55 36.0	−1.2		
			LN	Ms = 5.5		8.0	3.64
			LE			11.0	6.94
CN2	20.0	8	eP	17 51 55.0	−2.0		
			eS	17 55 31.0	−4.4		
			LN	Ms = 5.2		16.0	5.90
MDJ	21.5	15	eP	17 52 12.5	−0.6		
			S	17 56 12.0	7.2		
			LE	Ms = 5.2		10.0	3.23
GTA	24.1	315	P	17 52 39.0	0.9		
			PMZ	m_B = 5.1		11.0	0.78
			pP	17 52 45.0	−0.9		
			PP	17 53 18.0	6.2		
			SME	m_B = 6.1		11.3	6.60
			LE	Ms = 5.6		12.0	8.63
LSA	27.8	288	P	17 53 13.0	−0.5		
			eS	17 57 58.0	4.2		
WMQ	34.1	314	P	17 54 13.8	4.9		
			sS	17 59 52.0	5.9		
			LN	Ms = 5.8		11.0	3.18
			LE			11.0	5.26
KSH	41.4	303	eP	17 55 11.0	1.1		
			eS	18 01 25.0	1.7		
			eScS	18 05 16.9	8.1		
			LE	Ms = 5.7		12.0	3.60

1986 5 22
O = 17 55 24.1 ± 0.18s
LAT = 24.15 N ± 1.16km
LONG = 121.77 E ± 1.87km
DEPTH = 11 km ± 1.45km
STATIONS USED = 7, STAND DEV = 4.03s
M_L = 3.7 / 3,

QZH	3.0	286	cPn	17 56 10.0	−1.9		
			eSn	17 56 44.3	−5.4		
			SMN	M_L = 3.6		1.4	0.36
			SME			1.2	0.16

1986 5 22
O = 17 56 45.4 ± 0.15s
LAT = 8.22 S ± 2.77km
LONG = 105.62 E ± 2.95km
DEPTH = 20 km ± 0.58km
STATIONS USED = 45, STAND DEV = 2.37s

QZN	27.4	9	eP	18 02 32.6	0.7		
GYA	34.5	2	P	18 03 35.0	0.4		
CD2	38.9	357	eP	18 04 12.6	0.4		
LSA	40.2	340	P	18 04 23.0	0.0		
NJ2	42.0	17	−P	18 04 38.6	1.3		
LZH	44.1	358	P	18 04 55.0	0.3		
TIY	46.1	7	P	18 05 10.9	0.1		
GTA	47.7	354	+iP	18 05 24.0	0.8		
BTO	48.7	4	−iP	18 05 31.4	0.1		
BJI	49.0	11	eP	18 05 33.0	−0.1		
SNY	52.4	17	−iP	18 05 58.2	−1.2		
WMQ	54.3	344	P	18 06 13.5	0.4		
CN2	54.8	17	+P	18 06 15.0	−1.8		
KSH	54.8	332	eP	18 06 18.9	1.9		
MDJ	56.9	20	eP	18 06 30.3	−1.4		

1986 5 22
O = 19 25 42.0
LAT = 32.59 N
LONG = 121.58 E
DEPTH = 15 km
STATIONS USED = 69, STAND DEV = 2.58s
Ms = 4.8 / 13, M_L = 4.8 / 10,

SSE	1.5	193	cPn	19 26 08.5	−0.8		
			Pg	19 26 09.5	0.5		
			Sn	19 26 27.0	−3.7		
			Sg	19 26 28.0	−2.0		
			SMN			8.0	28.6
			SME			8.0	49.5
NJ2	2.4	258	Pn	19 26 20.5	−0.4		
			−Pg	19 26 25.0	1.1		
			iSg	19 26 55.0	−1.3		
			LE			0.2	18.3
TIA	5.2	316	ePn	19 27 00.0	0.8		
			Pg	19 27 16.9	3.8		
			Sg	19 28 24.3	0.7		
			SMN	M_L = 4.9		1.5	1.41
			SME			1.5	1.29
			SMZ	M_L = 5.0		1.5	1.27
WHN	6.5	254	+Pn	19 27 19.0	1.4		
			Pg	19 27 39.5	2.8		
			S*	19 28 54.0	4.0		
			LN	Ms = 5.0		5.0	7.27
QZH	8.1	200	ePn	19 27 40.4	1.4		
			LG_1	19 29 51.2	−3.9		
			LG_2	19 30 04.0	−3.8		
			LN	Ms = 5.1		7.5	3.50
			LE			7.5	9.01
BJI	8.6	331	eP	19 27 47.5	−1.9		
			eLG_1	19 30 14.5	1.8		
TIY	9.1	307	eP	19 27 54.2	−1.5		
			sS	19 29 52.0	4.8		

			LG_1	19 30 34.0	7.3		
			LN	Ms=4.5		13.0	2.70
			LE			15.0	2.48
SNY	9.4	9	eP	19 28 01.8	2.1		
			eS	19 29 42.0	−3.7		
			LG_1	19 30 39.2	3.3		
			LG_2	19 30 55.0	4.3		
			LN			1.2	0.15
			LE			1.0	0.23
XAN	10.7	281	+P	19 28 15.6	−2.5		
			S	19 30 11.5	−6.8		
			LN	Ms=4.9		12.0	5.00
			LE			12.0	2.25
CN2	11.6	14	eP	19 28 29.6	−0.8		
			eS	19 30 37.0	−3.8		
			LE	Ms=4.9		14.0	5.90
BTO	12.2	314	eP	19 28 40.0	0.7		
			eLG_1	19 32 02.0	−4.7		
			LG_2	19 32 19.0	−7.1		
			LN	Ms=4.4		11.0	1.00
			LE			11.0	1.10
			LZ	Ms=4.3		12.0	1.10
MDJ	13.5	25	eP	19 28 55.5	−0.9		
			LG_1	19 32 53.0	5.9		
GYA	14.3	249	eP	19 29 08.4	1.2		
			S	19 31 52.0	5.6		
			SMN			1.4	0.10
LZH	15.1	288	P	19 29 18.0	1.4		
			PMZ			1.9	0.055
			eS	19 32 06.0	1.8		
			LN	Ms=4.8		10.0	1.40
			LE			11.0	1.88
CD2	15.3	268	eP	19 29 19.2	0.2		
			eLG_1	19 33 46.0	4.7		
			LN	Ms=5.4		9.0	8.50
			LZ	Ms=5.1		9.0	3.80
QZN	17.1	221	eP	19 29 45.7	2.9		
KMI	18.1	251	eP	19 29 55.0	−0.1		
GTA	18.9	297	eP	19 30 04.7	0.2		
			LN	Ms=4.7		13.0	1.42
LSA	26.2	272	P	19 31 19.0	0.4		
WMQ	28.7	303	P	19 31 41.2	−0.1		
KSH	37.2	294	eP	19 32 48.8	−6.4		

1986 5 22
O=19 52 21.7 ± 0.09s
LAT=34.47 N ± 1.93km
LONG= 26.56 E ± 2.07km
DEPTH= 51 km ± 1.02km
STATIONS USED = 79, STAND DEV= 1.42s

Ms=5.4/ 9, m_B=5.7/ 3

KSH	39.4	68	cP	19 59 49.6	0.8		
			PP	20 01 23.6	0.2		
			eS	20 05 49.6	3.1		
			LN	Ms=5.3		14.0	2.00
WMQ	47.4	60	+iP	20 00 53.5	0.4		
			PMZ			2.0	0.19
			eS	20 07 43.0	0.8		
			LN	Ms=5.6		32.0	7.21
LSA	54.1	76	P	20 01 44.0	−0.8		
GTA	57.3	62	+iP	20 02 06.8	−0.5		
			PMZ			14.0	0.42
			SME	m_B=5.5		6.5	0.40
LZH	61.5	64	P	20 02 36.2	0.0		
CD2	63.6	69	eP	20 02 50.6	0.6		
BTO	64.1	57	cP	20 02 53.6	0.0		
			csP	20 03 08.0	−4.2		
			S	20 11 26.0	2.6		
KMI	65.4	76	eP	20 03 01.5	−0.4		
XAN	66.1	64	+P	20 03 06.2	−0.3		
TIY	67.0	59	P	20 03 12.5	0.2		
			pP	20 03 22.0	−3.5		
			S	20 12 07.0	7.9		
			SMN			15.0	0.73
			sS	20 12 19.0	−4.2		
			LE	Ms=5.4		12.0	0.85
GYA	67.9	72	P	20 03 17.0	−0.6		
BJI	68.6	56	eP	20 03 22.0	0.1		
			eS	20 12 20.0	1.0		
			SMN	m_B=5.7		7.0	0.27
			SME			5.5	0.47
			esS	20 12 38.0	−3.8		
			LN	Ms=5.5		36.0	3.11
			LE			36.0	1.46
TIA	71.0	59	+P	20 03 37.0	−0.1		
WHN	71.8	65	eP	20 03 41.0	−0.5		
SNY	72.6	51	+iP	20 03 46.0	−0.3		
CN2	72.8	49	+P	20 03 46.5	−0.8		
			PMZ	m_B=5.7		4.0	0.40
			pP	20 03 56.0	−4.6		
			eS	20 13 05.0	−3.0		
			LN	Ms=5.4		26.0	1.60
QZN	74.1	78	eP	20 03 56.0	0.9		
NJ2	74.4	62	+P	20 03 58.0	1.4		
			LZ	Ms=5.1		20.0	0.60
MDJ	74.9	46	eP	20 03 53.5	−5.9		
SSE	76.6	62	eP	20 04 08.0	−1.2		
			csP	20 04 21.0	−6.9		
			eS	20 13 49.0	−1.1		
			sS	20 14 04.0	−9.0		

			ScS	20 14 18.0	2.2		
			LN	Ms=5.4		36.0	1.69
			LE			36.0	1.46

1986 5 22
O=21 00 00.9 ± 0.11s
LAT=24.14 N ± 2.00km
LONG=121.73 E ± 1.84km
DEPTH= 26 km ± 0.82km
STATIONS USED = 68, STAND DEV= 1.87s
Ms=4.7/ 17, M_L=4.6/ 5, m_B=5.1/ 2

QZH	3.0	286	ePn	21 00 45.7	−1.1		
			Sn	21 01 18.6	−4.6		
			LG_1	21 01 38.7	4.6		
			LN			10.0	5.26
			LE			10.0	6.25
SSE	6.9	356	ePn	21 01 42.5	0.9		
			LG_1	21 03 36.5	−2.7		
			LG_2	21 03 49.5	−0.7		
			LN	Ms=4.6		8.0	1.91
			LE			8.0	3.50
			LZ	Ms=4.3		8.0	2.25
GZH	7.8	264	Pn	21 01 52.0	−0.7		
			Sn	21 03 12.7	−9.2		
			LN			0.8	0.38
			LE			1.0	0.23
NJ2	8.3	343	+P	21 02 01.4	−1.0		
			S	21 03 29.4	−6.5		
			LN			1.0	1.10
			LE			6.0	2.90
WHN	9.1	316	eP	21 02 11.0	−3.4		
			S	21 03 53.0	−4.4		
			LN	Ms=4.5		11.0	3.13
QZN	12.2	248	eP	21 03 01.4	5.7		
			S	21 05 16.2	5.1		
TIA	12.7	343	eP	21 03 02.5	−0.1		
			eLG_1	21 06 44.0	5.0		
			LN	Ms=4.6		10.0	0.89
			LE			9.0	1.38
			LZ	Ms=4.8		10.0	2.71
GYA	13.8	283	eP	21 03 14.6	−3.3		
			S	21 05 43.0	−7.9		
			SMN			1.4	0.40
			LE	Ms=4.9		10.0	2.90
XAN	14.9	314	P	21 03 32.0	−0.1		
			LG_1	21 07 49.0	−0.2		
			LG_2	21 08 14.2	1.4		
			LE	Ms=4.7		11.0	2.03
TIY	15.7	332	P	21 03 43.0	0.7		
			LG_2	21 08 45.5	6.8		
			LN	Ms=4.9		11.5	2.32
			LE			10.0	1.44
BJI	16.5	345	eP	21 03 55.0	2.2		
			eLG_1	21 08 46.0	5.8		
			LN	Ms=4.6		12.0	1.36
KMI	17.3	277	+P	21 04 06.5	3.8		
CD2	17.3	297	eP	21 04 07.8	5.2		
SNY	17.7	5	eP	21 04 10.9	3.3		
			LE	Ms=4.7		17.0	2.21
HHC	18.7	335	−P	21 04 22.0	1.8		
			eS	21 07 43.0	−2.0		
LZH	19.5	312	−iP	21 04 31.0	1.8		
			eS	21 08 03.0	0.6		
			LN	Ms=4.8		10.0	1.11
			LE			10.0	1.06
CN2	19.9	8	+P	21 04 30.0	−3.1		
			PMZ	m_B=5.1		4.0	0.40
			eS	21 08 03.0	−7.3		
			LZ	Ms=4.6		15.0	1.20
MDJ	21.4	16	eP	21 04 49.4	0.1		
GTA	24.0	315	+P	21 05 15.3	0.6		
			SME	m_B=5.0		8.0	0.37
			LE	Ms=4.8		12.0	1.34
			LZ	Ms=4.9		15.0	2.06
WMQ	34.0	314	P	21 06 46.0	0.4		
KSH	41.3	303	eP	21 07 48.5	1.7		

1986 5 22
O=21 37 20.8 ± 0.08s
LAT= 7.04 S ± 1.30km
LONG=117.26 E ± 1.57km
DEPTH=599 km ± 0.37km
STATIONS USED = 47, STAND DEV= 1.16s

QZN	26.9	344	eP	21 42 18.4	0.5		
GYA	34.8	343	+P	21 43 26.0	0.8		
			PcP	21 45 41.4	0.5		
WHN	37.5	356	+iP	21 43 47.5	1.0		
NJ2	38.9	2	+P	21 43 59.0	0.8		
CD2	39.9	342	+iP	21 44 06.6	0.4		
XAN	41.6	350	+iP	21 44 19.4	−0.5		
LSA	44.3	327	P	21 44 41.2	−0.3		
BJI	46.8	359	eP	21 45 00.0	−0.4		
GTA	49.0	342	+iP	21 45 16.6	0.2		
			PMZ			0.8	0.017
			PcP	21 46 29.2	0.7		
			ScP	21 49 27.3	1.6		
			S	21 51 36.8	0.0		
			SMN			2.0	0.038
SNY	49.0	6	+iP	21 45 14.8	−1.5		
CN2	51.1	8	+P	21 45 30.0	−2.1		

MDJ	52.6	11	+iP	21 45 41.9	−0.6		

1986 5 22
O = 22 54 11.5 ± 0.15s
LAT = 24.05 N ± 1.22km
LONG = 121.70 E ± 0.53km
DEPTH = 17 km ± 1.63km
STATIONS USED = 13, STAND DEV = 3.01s
M_L = 3.7 / 6,

QZH	3.0	288	ePn	22 54 57.5	−0.8		
			eSn	22 55 32.5	−2.9		
			SMN	M_L = 3.3		0.5	0.16
			SME			0.7	0.11
SSE	7.0	356	ePn	22 56 01.0	6.8		
			LG_2	22 58 03.5	−0.2		
			LN			1.1	0.017
			LE			1.1	0.060
NJ2	8.4	343	eP	22 56 14.0	−1.0		
			S	22 57 46.3	−3.5		
			LN			1.2	0.090

1986 5 22
O = 23 01 50.6 ± 0.04s
LAT = 42.62 N ± 0.40km
LONG = 94.90 E ± 0.60km
DEPTH = 1 km ± 0.51km
STATIONS USED = 5, STAND DEV = 4.32s
M_L = 3.3 / 6,

GTA	4.9	129	Pn	23 03 07.9	2.1		
			Pg	23 03 18.2	1.0		
			Sg	23 04 19.8	−4.4		
			SMN	M_L = 3.2		0.6	0.023
			SME			0.6	0.032
WMQ	5.4	285	ePn	23 03 16.0	3.4		
			Sn	23 04 16.4	−1.2		
			Sg	23 04 34.0	−5.8		
			SMN	M_L = 3.1		0.6	0.014
			SME			0.8	0.020

1986 5 22
O = 23 41 38.5 ± 0.10s
LAT = 30.64 N ± 1.78km
LONG = 142.05 E ± 1.96km
DEPTH = 34 km ± 0.32km
STATIONS USED = 47, STAND DEV = 1.82s
Ms = 4.3 / 3,

MDJ	17.1	328	cP	23 45 38.0	1.7		
SNY	18.6	312	cP	23 45 53.8	−1.3		
			LN	Ms = 4.6		13.0	0.95
			LE			14.0	0.76
CN2	18.6	320	+P	23 45 54.0	−1.3		
NJ2	19.9	280	−P	23 46 10.0	0.3		
			LZ	Ms = 3.9		18.0	0.30
BJI	23.0	301	eP	23 46 42.0	0.1		
			eS	23 50 49.0	2.7		
TIY	25.4	294	eP	23 47 05.0	−0.2		
BTO	27.7	300	eP	23 47 26.0	−0.5		
			eS	23 52 02.0	−3.4		
XAN	28.1	286	eP	23 47 25.4	−4.6		
GYA	31.3	271	P	23 48 03.2	5.1		
GTA	35.4	296	P	23 48 33.0	−0.9		
WMQ	44.5	303	P	23 49 49.0	0.0		

1986 5 23
O = 01 32 04.3 ± 0.11s
LAT = 31.41 N ± 1.36km
LONG = 140.62 E ± 2.02km
DEPTH = 39 km ± 0.49km
STATIONS USED = 15, STAND DEV = 1.71s

SNY	17.2	312	eP	01 36 03.3	0.5		
CN2	17.2	320	eP	01 36 04.0	0.4		
NJ2	18.5	278	eP	01 36 19.8	0.0		
TIA	20.1	290	eP	01 36 35.1	−2.4		
BJI	21.6	300	eP	01 36 50.0	−2.8		
			PMZ			1.0	0.021
WHN	22.5	275	eP	01 37 01.0	−1.2		
TIY	24.0	293	eP	01 37 31.9	15.8		
XAN	26.7	284	eP	01 37 44.4	1.8		

1986 5 23
O = 01 34 40.7 ± 0.11s
LAT = 31.24 N ± 1.85km
LONG = 140.33 E ± 1.95km
DEPTH = 20 km ± 0.41km
STATIONS USED = 50, STAND DEV = 1.90s
Ms = 4.3 / 10, m_B = 5.1 / 3

MDJ	15.8	331	eP	01 38 26.0	2.0		
SSE	16.4	274	eP	01 38 32.0	0.4		
			epP	01 38 37.5	0.1		
			esP	01 38 42.0	0.7		
			eS	01 41 35.0	2.3		
			esS	01 41 44.0	1.9		
			eSS	01 41 55.0	3.4		
			LN	Ms = 4.3		12.0	0.79
SNY	17.1	313	+P	01 38 42.5	2.1		
			sP	01 38 52.8	2.7		
			eS	01 41 51.0	2.2		
			LE	Ms = 4.2		12.0	0.57
DL2	17.1	302	eP	01 38 44.0	3.5		
			sS	01 42 02.0	3.5		

			LN		Ms=4.3	12.0	0.67
CN2	17.2	321	+P	01 38 42.0	0.3		
			PMZ		m_B=5.1	4.0	0.40
			pP	01 38 48.0	0.5		
			eS	01 41 55.0	3.9		
			LE		Ms=4.2	10.0	0.50
NJ2	18.3	278	+P	01 38 58.5	2.9		
TIA	19.9	291	eP	01 39 14.0	−0.4		
BJI	21.5	301	eP	01 39 29.0	−1.4		
			eS	01 43 27.0	4.2		
			SMN		m_B=5.0	8.0	0.54
			esS	01 43 43.0	9.3		
			eSS	01 44 06.0	9.0		
			LE		Ms=4.2	12.0	0.36
WHN	22.3	275	eP	01 39 40.0	1.3		
TIY	23.8	293	eP	01 39 51.0	−3.0		
			S	01 44 12.0	7.0		
			sS	01 44 25.0	8.1		
			LN		Ms=4.5	15.0	0.77
HHC	25.1	300	P	01 40 04.0	−1.9		
BTO	26.2	299	eP	01 40 15.0	−1.2		
			pP	01 40 22.0	−0.8		
			eS	01 44 43.0	−2.0		
			LN		Ms=4.7	14.0	0.60
			LE			14.0	0.80
XAN	26.5	284	P	01 40 18.2	−1.5		
GYA	29.8	269	P	01 40 48.0	−1.1		
GTA	33.8	295	P	01 41 24.9	0.5		
			LZ		Ms=4.6	14.0	0.52
WMQ	42.9	302	P	01 42 41.0	0.5		

1986 5 23
O=03 00 02.9 ± 0.09s
LAT=11.80 N ± 1.42km
LONG=142.42 E ± 1.34km
DEPTH= 32 km ± 0.03km
STATIONS USED = 54, STAND DEV= 1.07s
Ms=4.5/ 4,

SSE	27.5	318	eP	03 05 48.0	−0.3		
			cpP	03 05 56.0	−1.2		
			csS	03 10 42.0	1.8		
			LN		Ms=4.6	18.0	0.59
			LE			18.0	0.69
NJ2	29.6	317	eP	03 06 07.0	−0.6		
			LZ		Ms=4.3	18.0	0.40
TIA	33.3	321	eP	03 06 40.4	0.0		
SNY	34.1	335	eP	03 06 46.6	−0.7		
CN2	35.1	338	eP	03 06 54.0	−1.5		
BJI	36.4	325	eP	03 07 07.0	0.1		
GYA	36.6	299	P	03 07 10.2	1.4		
			PcP	03 09 32.0	1.0		
XAN	37.7	311	eP	03 07 16.1	−1.5		
HHC	39.6	322	P	03 07 33.2	−0.6		
BTO	40.4	321	P	03 07 41.0	0.7		
CD2	40.4	304	eP	03 07 41.4	1.0		
LZH	42.3	311	eP	03 07 55.5	−0.6		
GTA	46.6	314	+iP	03 08 30.7	0.2		
			LZ		Ms=4.5	23.0	0.43

1986 5 23
O=06 30 07.4 ± 0.03s
LAT= 2.45 S ± 0.73km
LONG=138.76 E ± 0.78km
DEPTH= 28 km ± 0.14km
STATIONS USED = 9, STAND DEV= 0.76s

XAN	45.9	325	eP	06 38 29.6	−0.2		
CD2	47.0	318	eP	06 38 39.8	1.1		
GTA	54.9	323	P	06 39 38.0	−0.4		

1986 5 23
O=09 33 38.6 ± 0.16s
LAT=24.21 N ± 1.61km
LONG=121.73 E ± 2.05km
DEPTH= 5 km ± 1.73km
STATIONS USED = 9, STAND DEV= 3.86s
M_L=3.5/ 3,

QZH	2.9	285	ePn	09 34 26.5	0.2		
			Sn	09 35 01.0	−3.1		
			SMN		M_L=3.4	1.0	0.22
			SME			0.8	0.080

1986 5 23
O=09 51 14.8 ± 0.11s
LAT=31.51 N ± 1.43km
LONG= 91.20 E ± 1.52km
DEPTH= 31 km ± 0.28km
STATIONS USED = 21, STAND DEV= 2.52s

LSA	1.8	181	Pn	09 51 46.0	1.4		
			Sn	09 52 13.0	5.7		
			LN			1.0	0.37
GTA	10.6	39	P	09 53 44.5	−2.8		
WMQ	12.6	348	P	09 54 19.0	4.0		
GYA	14.4	106	P	09 54 37.4	−1.8		
XAN	15.1	76	eP	09 54 47.4	−0.7		
TIY	18.5	65	eP	09 55 29.8	−1.3		
BJI	21.9	60	eP	09 56 07.0	−0.5		

1986 5 23
O=09 51 23.8 ± 0.18s
LAT=12.84 N ± 2.99km

LONG= 48.14 E ± 2.49km
DEPTH= 10 km ± 0.22km
STATIONS USED = 72, STAND DEV= 1.42s
Ms=5.6/34, m_B=6.0/16

KSH	36.1	38	+iP	09 58 31.0	2.3		
			PP	09 59 45.0	−5.2		
			iS	10 04 14.0	5.9		
			LE	Ms=6.0		10.0	9.00
LSA	43.2	60	P	09 59 28.5	1.2		
			S	10 05 56.0	3.8		
			ScS	10 09 23.5	−0.7		
			LE	Ms=5.2		15.0	1.40
WMQ	45.8	40	P	09 59 49.5	1.1		
			S	10 06 40.0	9.2		
			LN	Ms=5.4		30.0	4.16
			LZ	Ms=5.3		35.0	3.90
GTA	52.5	50	P	10 00 39.3	−0.9		
			PMZ	m_B=5.9		5.0	0.83
			sP	10 00 50.0	1.7		
			S	10 08 12.0	7.6		
			LN	Ms=5.4		32.0	3.64
			LZ	Ms=5.6		28.0	4.78
KMI	52.7	68	+P	10 00 42.5	0.7		
			S	10 08 08.0	0.8		
			LE	Ms=5.7		20.0	4.30
CD2	54.1	61	cP	10 00 50.4	−1.3		
			S	10 08 26.0	0.3		
			LE	Ms=5.4		25.0	2.50
			LZ	Ms=5.6		26.0	4.10
LZH	54.9	55	P	10 00 59.0	1.2		
			PMZ	m_B=6.1		4.0	1.19
			S	10 08 43.0	6.4		
			SME	m_B=5.7		10.0	0.99
			LN	Ms=5.7		19.0	1.07
			LE			19.0	3.55
GYA	56.3	67	P	10 01 06.6	−1.3		
			S	10 08 58.0	2.5		
			PS	10 09 13.0			
XAN	58.8	58	cP	10 01 23.2	−1.9		
			pP	10 01 29.0	−1.6		
			sP	10 01 35.5	2.2		
			PP	10 03 40.0	4.1		
			S	10 09 35.0	7.4		
QZN	59.4	75	cP	10 01 29.4	0.0		
			S	10 09 39.0	3.2		
BTO	60.4	51	+P	10 01 37.0	0.3		
			PMZ	m_B=6.1		4.0	1.00
			sP	10 01 49.0	4.1		
			cPP	10 03 54.0	3.0		
			S	10 09 56.0	6.8		
			LN	Ms=5.8		17.0	2.00
			LE			17.0	2.80
			LZ	Ms=5.7		17.0	2.90
HHC	61.6	50	P	10 01 44.2	−0.6		
			PMZ	m_B=6.2		4.0	1.13
			cS	10 10 08.0	2.1		
			SME	m_B=6.1		9.0	1.88
			LN	Ms=5.6		16.0	1.87
			LE			16.0	1.36
TIY	62.0	54	−P	10 01 47.4	0.5		
			sP	10 01 57.0	1.8		
			PcP	10 02 22.5	−3.9		
			PP	10 03 59.0	−5.7		
			S	10 10 13.0	4.5		
			SME	m_B=5.9		10.0	1.44
WHN	63.2	62	P	10 01 54.0	−0.9		
			S	10 10 16.0	−7.8		
			LE	Ms=5.3		24.0	1.68
BJI	65.1	52	cP	10 02 07.5	0.3		
			PMZ	m_B=5.8		6.0	0.75
			sP	10 02 19.0	3.4		
			cS	10 10 48.0	−0.3		
			cSS	10 15 02.0	1.1		
TIA	65.6	56	cP	10 02 10.1	−0.7		
			LE	Ms=5.6		11.0	1.27
NJ2	67.0	61	+P	10 02 20.2	0.4		
			sP	10 02 33.0	4.8		
			S	10 11 15.0	3.9		
			SS	10 15 40.0	8.5		
			LZ	Ms=5.5		20.0	2.00
QZH	67.1	68	cP	10 02 24.5	4.2		
			SS	10 15 34.0	1.3		
			LN	Ms=5.1		17.0	0.58
SSE	69.1	61	+P	10 02 33.0	0.5		
			PMZ	m_B=6.0		8.0	1.42
			sP	10 02 40.0	−0.8		
			cS	10 11 36.0	−0.5		
			sS	10 11 46.0	0.1		
			ScS	10 12 31.0	2.5		
			SS	10 16 10.0	7.2		
			LN	Ms=5.8		20.0	1.50
			LE			20.0	2.88
			LZ	Ms=5.8		20.0	3.49
DL2	69.2	53	cP	10 02 34.5	0.9		
			cS	10 11 38.0	−0.8		
SNY	70.7	50	−P	10 02 41.5	−1.2		
			pP	10 02 51.0	2.7		
			S	10 11 51.0	−3.9		
			SS	10 16 38.0	9.3		
			LN	Ms=5.6		24.0	2.27

			LE			28.0	1.73
CN2	72.1	48	−iP	10 02 50.0	−0.9		
			PMZ	m_B = 6.1		4.0	0.90
			pP	10 02 57.0	0.5		
			eS	10 12 13.0	0.9		
			SME	m_B = 6.0		8.0	1.00
			eSS	10 16 56.0	6.6		
			LZ	Ms = 5.7		20.0	2.50
MDJ	75.0	47	eP	10 03 06.5	−1.7		
			eS	10 12 46.0	0.6		
			LE	Ms = 5.4		30.0	1.99

1986 5 23

O = 10 46 42.5 ± 0.22s
LAT = 24.10 N ± 0.92km
LONG = 121.56 E ± 2.17km
DEPTH = 22 km ± 0.51km
STATIONS USED = 9, STAND DEV = 2.44s
M_L = 3.3 / 2,

QZH	2.8	288	cPn	10 47 28.1	1.1		
			Sn	10 48 03.4	1.1		

1986 5 23

O = 13 27 30.5 ± 0.13s
LAT = 30.11 N ± 1.09km
LONG = 103.59 E ± 1.51km
DEPTH = 17 km ± 0.31km
STATIONS USED = 15, STAND DEV = 4.58s
M_L = 3.6 / 5,

CD2	0.8	10	cPn	13 27 42.8	−5.0		
			Sg	13 27 53.5	−2.9		
GYA	4.5	143	cPn	13 28 42.0	2.9		
			Sn	13 29 38.4	5.1		
			SMN	M_L = 3.9		1.2	0.20
			SME			1.2	0.20
KMI	5.0	189	cPn	13 28 48.0	2.2		
			Sn	13 29 48.5	3.2		
			LE			2.0	0.14
LZH	6.0	2	cPg	13 29 23.0	6.9		
XAN	6.0	48	Pn	13 28 56.4	−2.5		
			Pg	13 29 20.4	4.2		
			Sn	13 30 03.4	−5.8		
			Sg	13 30 42.2	4.1		
			SMN	M_L = 4.0		1.0	0.10
			SME			1.0	0.10

1986 5 23

O = 23 18 41.1 ± 0.13s
LAT = 59.08 N ± 4.16km
LONG = 153.44 W ± 2.00km
DEPTH = 76 km ± 0.78km
STATIONS USED = 53, STAND DEV = 1.36s

MDJ	47.0	288	cP	23 27 07.2	0.5
CN2	49.6	290	+P	23 27 26.0	−1.0
SNY	52.0	290	cP	23 27 45.4	0.3
BJI	56.9	294	cP	23 28 20.0	−1.2
HHC	58.4	297	−P	23 28 30.2	−1.7
BTO	59.3	298	cP	23 28 38.0	−0.1
SSE	61.6	284	cP	23 28 53.0	−0.5
GTA	64.8	305	P	23 29 13.6	−1.1
XAN	65.2	295	P	23 29 16.0	−1.1
WHN	65.4	289	cP	23 29 17.5	−1.2
WMQ	65.8	316	+P	23 29 21.0	0.0
LZH	65.8	300	cP	23 29 20.5	−0.7
CD2	70.2	297	cP	23 29 48.1	−0.2
GYA	72.5	292	−P	23 30 03.0	0.3
QZN	77.3	286	cP	23 30 28.8	−0.9

1986 5 24

O = 03 05 43.4 ± 0.10s
LAT = 24.20 N ± 1.35km
LONG = 121.83 E ± 1.53km
DEPTH = 1 km ± 1.36km
STATIONS USED = 14, STAND DEV = 3.17s
Ms = 3.8 / 3, M_L = 3.7 / 3,

QZH	3.0	285	cPn	03 06 31.6	−1.1		
			Sn	03 07 04.9	−6.8		
			SMN	M_L = 3.7		0.8	0.36
			SME			0.7	0.20
SSE	6.9	355	cPn	03 07 29.0	3.3		
			LG_2	03 09 36.5	5.8		
			LN	Ms = 3.8		12.0	0.90
			LE			16.0	0.58
GZH	7.9	264	Pn	03 07 45.0	6.1		
NJ2	8.2	342	cP	03 07 45.0	−2.1		
			S	03 09 20.0	−1.8		
			LE			1.4	0.30
			LZ	Ms = 3.8		10.0	0.60
GYA	13.9	282	P	03 09 17.6	13.9		

1986 5 24

O = 06 26 49.9 ± 0.17s
LAT = 23.20 N ± 1.55km
LONG = 99.85 E ± 1.93km
DEPTH = 32 km ± 0.74km
STATIONS USED = 8, STAND DEV = 4.14s
M_L = 4.0 / 3,

KMI	3.3	53	cP *	06 27 44.0	0.6
			Sn	06 28 11.0	−7.7

1986 5 24
O = 08 08 24.2 ± 0.14s
LAT = 33.22 N ± 2.17km
LONG = 131.11 E ± 1.76km
DEPTH = 6 km ± 0.42km
STATIONS USED = 17, STAND DEV = 2.86s
Ms = 3.9 / 2,

SSE	8.7	259	eP	08 10 34.0	0.7		
			LG_1	08 12 47.0	−9.7		
			LN			1.0	0.044
			LE			1.0	0.041
NJ2	10.4	267	eP	08 10 58.5	1.3		
			LZ	Ms = 3.4		17.0	0.30
CN2	11.5	339	eP	08 11 14.0	2.4		
GYA	22.2	259	P	08 13 27.2	3.6		
CD2	23.3	272	eP	08 13 32.9	−1.0		
GTA	25.9	293	eP	08 13 57.0	−2.0		

1986 5 24
O = 09 58 13.8 ± 0.14s
LAT = 24.11 N ± 2.16km
LONG = 121.71 E ± 1.86km
DEPTH = 20 km ± 0.66km
STATIONS USED = 78, STAND DEV = 2.14s
Ms = 5.5 / 42, M_L = 4.7 / 4, m_B = 5.4 / 10

QZH	3.0	287	ePn	09 58 59.3	−0.9		
			sPn	09 59 04.5	−5.7		
			Sn	09 59 33.5	−3.4		
			SMN	M_L = 4.8		1.0	3.92
			SME			1.4	4.49
SSE	7.0	356	+Pn	09 59 56.2	0.8		
			LG_1	10 01 57.0	4.2		
			LG_2	10 02 11.0	7.1		
			LE	Ms = 5.0		12.0	14.6
GZH	7.7	264	Pn	10 00 06.2	0.3		
			Sn	10 01 29.0	−6.3		
			LN	Ms = 5.1		11.0	15.3
			LE			13.0	7.97
NJ2	8.3	343	−P	10 00 14.5	−1.7		
			S	10 01 47.0	−3.1		
			LN	Ms = 5.5		9.5	30.8
			LZ	Ms = 5.0		12.0	11.9
WHN	9.2	316	−P	10 00 26.2	−1.8		
			S	10 02 08.0	−3.3		
			LN	Ms = 5.4		9.0	17.1
			LE			10.0	11.7
QZN	12.1	248	P	10 01 07.9	−1.0		
			eS	10 03 22.4	−2.4		
			LN	Ms = 4.9		13.0	5.30
			LE			12.0	2.00
TIA	12.7	343	eP	10 01 16.5	0.1		
			epP	10 01 19.3	−2.6		
			S	10 03 35.0	−2.7		
			LE	Ms = 5.3		9.0	8.56
GYA	13.8	283	P	10 01 31.0	−0.3		
			sP	10 01 38.0	−2.7		
			S	10 04 03.0	−1.5		
			LE	Ms = 5.6		10.0	16.9
DL2	14.7	360	eP	10 01 47.0	3.5		
			LN	Ms = 4.9		12.0	2.82
			LE			11.0	2.13
XAN	14.9	314	eP	10 01 45.0	−0.7		
			S	10 04 28.6	−2.1		
			SS	10 04 42.0	−5.9		
			LG_2	10 06 19.0	−6.8		
			LN	Ms = 5.6		7.0	2.42
			LE			10.0	12.6
TIY	15.7	332	eP	10 01 57.0	1.0		
			sP	10 02 04.5	−1.1		
			LG_2	10 06 44.5	−7.5		
			LN	Ms = 5.6		11.0	12.2
			LE			10.0	6.00
BJI	16.6	345	eP	10 02 08.0	1.3		
			PMZ	m_B = 5.1		9.0	0.78
			eS	10 05 12.0	2.5		
			LN	Ms = 5.0		10.5	3.40
			LZ	Ms = 4.5		10.0	1.02
KMI	17.3	277	−P	10 02 20.0	3.9		
			eS	10 05 30.0	3.4		
			LE	Ms = 5.7		10.0	15.5
CD2	17.3	297	eP	10 02 17.3	1.2		
			LN	Ms = 5.5		14.0	13.5
			LZ	Ms = 5.6		7.0	7.80
SNY	17.7	5	+iP	10 02 22.0	0.4		
			PMZ	m_B = 5.2		10.0	1.22
			pP	10 02 30.0	2.5		
			PP	10 02 38.0	2.4		
			eS	10 05 33.0	−3.6		
			sS	10 05 48.0	1.8		
			LN	Ms = 5.3		15.0	1.53
			LE			14.0	7.31
HHC	18.7	335	+P	10 02 32.5	−1.5		
			PMZ	m_B = 5.4		6.0	1.15
			sP	10 02 41.5	−2.1		
			PP	10 02 48.0	−1.3		
			S	10 05 53.0	−5.5		
			SMN	m_B = 5.4		6.0	1.03
			SME			6.0	0.65
			LN	Ms = 5.3		10.0	4.42
			LE			10.0	2.60

BTO	19.1	332	eP	10 02 41.2	2.2		
			sP	10 02 49.0	0.4		
			S	10 06 13.0	5.2		
			sS	10 06 19.5	1.5		
			LN	Ms=5.8		10.0	12.8
			LE			10.0	8.20
			LZ	Ms=5.6		11.0	10.8
LZH	19.5	312	eP	10 02 42.5	−0.4		
			PMZ	m_B=5.8		4.0	1.76
			PP	10 02 59.0	−0.9		
			eS	10 06 16.0	−0.5		
			SS	10 06 41.5	−0.5		
			LN	Ms=5.5		9.0	4.80
			LE			10.0	5.64
CN2	19.9	8	+P	10 02 45.6	−1.5		
			pP	10 02 49.0	−4.5		
			eS	10 06 19.0	−5.9		
MDJ	21.4	16	eP	10 03 02.5	−0.8		
			eS	10 06 53.0	−2.6		
			LE	Ms=4.2		15.0	0.50
GTA	24.0	315	P	10 03 28.6	0.2		
			PMZ	m_B=5.1		9.0	0.73
			eS	10 07 47.0	5.5		
			SMN			16.0	0.87
			SME			18.0	1.40
			LE	Ms=5.4		12.0	4.48
LSA	27.8	288	P	10 04 06.2	1.9		
			pP	10 04 09.0	−1.7		
			SME	m_B=5.4		11.0	0.95
			LE	Ms=5.5		10.0	3.94
WMQ	34.0	314	eP	10 04 59.5	0.1		
			pP	10 05 03.2	−3.1		
			eS	10 10 22.0	−1.2		
			LN	Ms=5.7		11.0	3.00
			LE			11.0	4.53
			LZ	Ms=5.5		12.0	3.21
KSH	41.3	303	eP	10 06 02.0	1.5		
			ePP	10 07 41.0	2.3		
			LN	Ms=5.6		14.0	3.70

1986 5 24
O=10 02 08.7 ± 0.15s
LAT=24.03 N ± 2.01km
LONG=121.69 E ± 2.06km
DEPTH= 23 km ± 0.42km
STATIONS USED = 48, STAND DEV= 2.86s
Ms=5.3/23, M_L=4.4/ 3,

QZH	3.0	289	ePn	10 02 54.9	0.0		
			Sn	10 03 29.0	−2.5		
			SME	M_L=4.8		1.3	4.03
			LN			10.0	12.6
			LE			9.0	15.4
SSE	7.1	357	ePn	10 03 56.0	4.9		
			eLG$_1$	10 05 54.0	3.7		
			LG$_2$	10 06 09.0	7.5		
			LN	Ms=4.9		10.0	5.57
			LE			14.0	10.1
GZH	7.7	265	Pn	10 04 02.5	2.4		
			Sn	10 05 24.8	−4.3		
			LN	Ms=5.1		10.0	9.37
			LE			11.0	10.8
WHN	9.2	316	P	10 04 25.6	2.3		
			S	10 06 10.6	3.7		
			LN	Ms=5.3		9.0	11.1
			LE			9.0	10.2
QZN	12.1	248	eP	10 05 04.8	2.0		
			eS	10 07 21.2	3.2		
			LN	Ms=5.0		11.0	4.70
			LE			11.0	1.60
TIA	12.8	343	eP	10 05 11.0	−0.9		
			SS	10 07 49.5	0.7		
			LN	Ms=5.0		9.5	2.46
			LE			7.0	3.24
			LZ	Ms=5.5		9.0	12.4
GYA	13.8	283	eP	10 05 18.2	−7.7		
			LN	Ms=5.5		10.0	9.90
			LE			10.0	8.40
XAN	15.0	315	P	10 05 40.8	−0.1		
			LG$_2$	10 10 18.6	−3.7		
			LN	Ms=5.4		7.0	2.42
			LE			10.0	7.60
TIY	15.8	332	eP	10 05 54.5	3.1		
			LN	Ms=5.5		8.0	6.78
			LE			10.5	4.07
SNY	17.8	5	+P	10 06 19.8	2.6		
HHC	18.8	336	P	10 06 33.3	3.9		
			SS	10 10 14.0	−5.1		
			LN	Ms=5.2		11.0	3.87
			LE			10.0	1.15
CN2	20.0	8	eP	10 06 41.6	−0.9		
			pP	10 06 45.0	−4.4		
			eS	10 10 20.0	−1.0		
			LZ	Ms=4.9		13.0	2.50
MDJ	21.5	16	eP	10 05 57.0	−1.7		
			eS	10 10 47.5	−3.9		
			LE	Ms=5.1		15.0	3.89
GTA	24.0	315	P	10 07 23.0	−0.4		
			sS	10 11 48.0	−0.2		
			LE	Ms=5.1		13.0	2.48
			LZ	Ms=5.3		13.0	4.40

WMQ	34.1	314	P	10 08 58.4	4.2		
			eS	10 14 26.0	7.9		
			LN	Ms=5.5		11.0	1.53
			LE			11.0	2.43
			LZ	Ms=5.2		12.0	1.86
KSH	41.4	303	eP	10 09 56.0	0.8		
			eS	10 16 03.0	−5.7		
			LN	Ms=5.6		10.0	2.70

1986 5 24
O=10 21 25.0 ± 0.28s
LAT=23.90 N ± 1.12km
LONG=121.79 E ± 1.11km
DEPTH= 33 km ± 2.51km
STATIONS USED = 10, STAND DEV= 3.72s
M_L=3.4 / 5,

QZH	3.1	290	cPn	10 22 13.4	1.3		
			eSn	10 22 50.8	1.4		
			SME	M_L=3.0		0.9	0.050

1986 5 24
O=10 39 42.8 ± 0.09s
LAT=15.57 N ± 1.09km
LONG= 95.54 W ± 1.42km
DEPTH= 35 km ± 0.24km
STATIONS USED = 14, STAND DEV= 0.75s

WMQ	120.8	357	cPKP	10 58 32.3	−0.4		

1986 5 24
O=10 43 36.0 ± 0.25s
LAT=15.40 S ± 3.45km
LONG=172.74 W ± 3.34km
DEPTH= 37 km ± 0.79km
STATIONS USED = 64, STAND DEV= 2.34s
Ms=5.8 / 23, m_B=6.1 / 20

QZH	78.0	300	+P	10 55 30.5	−2.6		
			S	11 05 21.0	−0.7		
			LE	Ms=5.5		27.0	2.17
SSE	78.5	307	+P	10 55 30.0	−5.7		
			PMZ	m_B=5.8		12.0	1.50
			eS	11 05 22.0	−6.2		
			sS	11 05 40.0	−5.5		
			ScS	11 05 44.0	−5.0		
			PS	11 06 09.0			
			SS	11 10 28.0	−5.1		
			LN	Ms=5.8		24.0	1.28
			LE			24.0	3.01
MDJ	79.4	322	+iP	10 55 41.0	0.1		
			cpP	10 55 47.0	−4.2		
			S	11 05 35.0	−1.6		
			SME	m_B=6.3		8.0	2.03
			SKS	11 05 50.0	2.0		
			LE	Ms=6.0		20.0	4.42
NJ2	80.7	307	+P	10 55 39.0	−8.6		
			LZ	Ms=5.5		24.0	1.60
CN2	81.5	320	+iP	10 55 51.0	−1.0		
			PMZ	m_B=6.1		5.0	1.20
			PP	10 58 54.0	−5.5		
			PPMZ			6.0	0.70
			eS	11 05 57.0	−3.0		
			SMN	m_B=6.2		8.0	1.10
			SME			8.0	1.00
DL2	81.6	314	+P	10 55 52.0	−0.7		
			PMZ	m_B=6.1		5.0	1.16
			ePP	10 58 55.0	−5.5		
			S	11 06 03.0	3.2		
			SMN	m_B=6.3		9.0	1.31
			SME			9.0	1.43
			LN	Ms=5.5		15.0	1.07
SNY	81.7	317	+iP	10 55 52.5	−0.5		
			PMZ	m_B=6.0		10.0	1.98
			S	11 06 06.0	5.5		
			SMN	m_B=6.1		9.0	0.90
			SME			9.0	0.77
			LN	Ms=5.6		44.0	3.63
			LE			44.0	1.73
GZH	81.8	297	P	10 55 54.0	0.6		
			LN	Ms=5.7		40.0	4.10
QZN	83.5	292	P	10 56 04.0	1.8		
			S	11 06 26.0	7.4		
TIA	83.7	310	eP	10 56 03.2	0.0		
			LE	Ms=5.9		17.0	2.45
BJI	85.9	313	+P	10 56 14.0	−0.3		
			PMZ	m_B=5.9		6.0	0.75
			LE	Ms=5.5		20.0	1.26
TIY	87.7	310	+iP	10 56 24.0	0.8		
			PMZ	m_B=6.4		4.0	1.41
			sP	10 56 34.0	−3.8		
			PP	10 59 45.0	−5.3		
			PPMZ			5.0	0.89
			SKS	11 06 52.5	7.8		
			S	11 07 02.0	2.3		
			SME			14.9	1.29
			sS	11 07 17.5	−1.4		
			LN	Ms=5.8		18.0	1.09
			LE			20.0	1.72
GYA	88.6	298	+P	10 56 27.0	−0.5		
			S	11 07 07.0	−0.8		
XAN	89.1	306	−P	10 56 30.3	0.3		
			pP	10 56 36.0	−4.3		

			S	11 07 22.0	9.2		
			LN	Ms=5.8		20.0	1.80
			LE			16.0	0.94
HHC	89.5	313	+P	10 56 30.5	−1.2		
BTO	90.5	312	−iP	10 56 37.0	0.6		
			PMZ	m_B=6.3		4.0	0.90
			sP	10 56 47.0	−3.9		
			eSKS	11 07 04.0	2.3		
			S	11 07 27.0	1.8		
KMI	91.6	295	−P	10 56 42.0	0.4		
			pP	10 56 51.5	−0.3		
			SKS	11 07 04.0	−4.0		
			SME	m_B=5.7		10.0	0.70
			LE	Ms=5.9		20.0	2.90
CD2	92.4	301	eP	10 56 45.0	0.1		
			SKS	11 07 20.0	7.8		
			eS	11 07 48.0	4.6		
			LE	Ms=5.8		24.0	2.60
			LZ	Ms=5.8		24.0	2.50
LZH	93.7	306	eP	10 56 51.5	0.2		
			eS	11 07 55.0	−0.6		
GTA	97.7	309	eP	10 57 08.8	−0.4		
			SKS	11 07 46.0	4.5		
			LE	Ms=5.8		24.0	2.20
			LZ	Ms=6.1		22.0	4.14
KSH	116.0	307	ePKP	11 02 19.0	2.8		
			ePP	11 03 19.0	−5.3		
			LE	Ms=6.0		18.0	2.30

1986 5 24
O=15 01 50.1 ± 0.37s
LAT=23.81 N ± 1.16km
LONG=121.83 E ± 1.31km
DEPTH= 10 km ± 2.68km
STATIONS USED = 9, STAND DEV= 2.24s
M_L=3.5/ 3,

QZH	3.2	292	cPn	15 02 40.5	0.3		
			cSn	15 03 15.9	−4.0		
			SMN	M_L=3.1		0.7	0.10
			SME			0.6	0.050

1986 5 24
O=15 31 52.1 ± 0.10s
LAT=36.09 N ± 1.61km
LONG= 69.04 E ± 1.80km
DEPTH= 45 km ± 0.60km
STATIONS USED = 78, STAND DEV= 1.42s
Ms=4.9/ 21,

KSH	6.4	56	+iP	15 33 29.9	2.8		
			S	15 34 44.9	5.8		
WMQ	16.2	56	P	15 35 37.0	−1.9		
			S	15 38 37.0	1.1		
			SS	15 39 00.0	4.2		
			LN	Ms=5.3		9.0	3.50
			LE			8.0	3.89
LSA	19.6	103	+P	15 36 19.7	−0.5		
			pP	15 36 26.5	−3.1		
			LN	Ms=4.7		9.0	1.00
GTA	24.5	73	+iP	15 37 10.4	1.5		
			pP	15 37 15.8	−3.9		
			eS	15 41 30.9	7.5		
			sS	15 41 39.9	−1.8		
			LE	Ms=4.7		16.0	1.39
			LZ	Ms=5.0		16.0	2.37
LZH	28.0	80	eP	15 37 42.5	0.7		
			eS	15 42 20.0	−1.5		
			LE	Ms=4.8		11.0	0.83
CD2	29.3	90	eP	15 37 53.8	0.8		
			eS	15 42 40.4	−1.2		
			LN	Ms=5.1		13.0	1.75
KMI	30.9	101	+P	15 38 06.5	−0.4		
			sP	15 38 24.5	1.6		
			eS	15 43 09.0	2.7		
			LE	Ms=4.7		14.0	0.80
BTO	32.2	69	P	15 38 19.2	0.2		
			ePP	15 39 22.0	−4.1		
			eS	15 43 26.0	−1.9		
			LN	Ms=5.2		14.0	0.70
			LE			16.0	2.50
			LZ	Ms=5.3		16.0	3.00
XAN	32.6	82	+iP	15 38 21.0	−0.6		
GYA	33.4	96	+P	15 38 28.6	−0.3		
			S	15 43 42.0	−2.6		
HHC	33.4	69	P	15 38 28.0	−1.0		
TIY	34.5	74	−iP	15 38 39.2	0.6		
			S	15 44 00.0	−2.1		
			sS	15 44 25.0	2.6		
			LN	Ms=4.6		10.0	0.29
			LE			12.0	0.30
BJI	37.0	69	eP	15 39 00.0	0.6		
WHN	38.0	85	eP	15 39 08.2	0.2		
			PMZ			1.0	0.10
			PP	15 40 38.0	0.1		
			eS	15 45 02.0	5.5		
			LN	Ms=4.9		10.0	0.55
TIA	38.5	75	eP	15 39 12.8	0.6		
			LE	Ms=6.0		13.5	10.0
QZN	39.6	104	eP	15 39 21.0	−0.6		
			eS	15 45 14.5	−6.8		
GZH	40.3	96	−P	15 39 28.0	0.8		

NJ2	41.1	81	−P	15 39 34.6	0.9		
			LZ	Ms=4.9		16.0	0.90
DL2	41.3	70	eP	15 39 36.5	0.8		
SNY	42.2	65	−iP	15 39 42.3	−0.4		
			eS	15 45 57.0	−2.3		
			LE	Ms=5.2		16.0	1.45
CN2	43.2	62	eP	15 39 50.0	−0.9		
			eS	15 46 09.0	−4.9		
			LZ	Ms=5.2		12.0	1.30
SSE	43.3	81	−P	15 39 52.1	0.4		
			pP	15 40 03.5	0.1		
MDJ	46.0	60	eP	15 40 13.3	0.1		

1986 5 24
O=16 44 57.4 ± 0.17s
LAT=51.17 N ± 2.42km
LONG=176.30 W ± 1.52km
DEPTH= 27 km ± 1.72km
STATIONS USED = 46, STAND DEV= 2.16s

MDJ	36.2	281	eP	16 52 00.0	0.2		
CN2	39.1	283	eP	16 52 24.8	0.1		
SNY	41.4	281	−iP	16 52 44.2	1.0		
BJI	47.0	284	P	16 53 28.0	−0.2		
			PMZ			1.0	0.011
TIA	48.7	279	eP	16 53 42.2	−0.1		
HHC	49.3	288	P	16 53 46.5	0.2		
BTO	50.3	288	P	16 53 55.5	0.9		
TIY	50.7	284	eP	16 53 57.8	0.6		
XAN	55.2	283	P	16 54 29.9	−1.2		
LZH	56.9	288	eP	16 54 43.0	−0.5		
GTA	57.1	293	+P	16 54 43.6	−0.9		
CD2	60.6	284	eP	16 55 09.2	0.8		
WMQ	60.8	304	P	16 55 08.7	−1.2		
GYA	61.9	278	P	16 55 17.0	−0.6		

1986 5 24
O=17 01 18.0 ± 0.17s
LAT= 1.43 S ± 2.09km
LONG= 77.87 W ± 2.26km
DEPTH=182 km ± 1.90km
STATIONS USED = 15, STAND DEV= 2.51s

LZH	145.5	358	eP	17 20 37.0	1.6		
XAN	146.9	350	eP	17 20 39.4	1.7		

1986 5 24
O=17 35 53.3 ± 0.07s
LAT= 5.56 S ± 0.98km
LONG=133.89 E ± 1.25km
DEPTH= 34 km ± 0.16km
STATIONS USED = 65, STAND DEV= 0.93s

Ms=4.5/ 2,

QZN	34.0	316	eP	17 42 36.7	0.0		
SSE	38.4	342	eP	17 43 15.6	1.8		
			csP	17 43 29.5	2.2		
			eS	17 49 10.0	3.5		
			SS	17 51 52.0	5.5		
			LE	Ms=4.4		16.0	0.29
NJ2	40.1	340	eP	17 43 28.0	0.6		
WHN	40.5	334	eP	17 43 32.5	1.6		
GYA	41.3	322	eP	17 43 39.0	0.8		
KMI	43.0	317	eP	17 43 52.0	0.2		
TIA	44.4	341	eP	17 44 03.4	0.2		
XAN	45.9	331	eP	17 44 14.2	−1.0		
CD2	46.3	323	eP	17 44 17.1	−1.2		
TIY	47.5	337	eP	17 44 27.2	−0.2		
SNY	48.1	350	+iP	17 44 32.1	−0.1		
BJI	48.2	342	eP	17 44 33.0	−0.2		
			PMZ			1.5	0.018
CN2	49.7	352	eP	17 44 44.0	−0.8		
MDJ	50.1	356	eP	17 44 47.5	−0.1		
LZH	50.1	328	eP	17 44 47.5	−0.4		
HHC	50.5	338	P	17 44 50.0	−1.0		
BTO	50.9	337	P	17 44 53.8	−0.1		
LSA	53.9	313	eP	17 45 16.8	−0.2		
GTA	54.7	328	−iP	17 45 22.4	0.2		
WMQ	64.4	325	−P	17 46 29.5	0.6		

1986 5 24
O=17 42 32.4 ± 0.14s
LAT=22.65 N ± 0.62km
LONG=121.56 E ± 1.10km
DEPTH= 34 km ± 0.35km
STATIONS USED = 6, STAND DEV= 1.34s
M_L=3.2/ 2,

QZH	3.5	311	cP	17 43 26.2	−0.3		
			eS	17 44 09.9	2.2		
			SMN	M_L=3.1		0.5	0.050
			SME			0.6	0.050

1986 5 24
O=18 05 41.3 ± 0.22s
LAT=24.21 N ± 0.42km
LONG=122.60 E ± 0.81km
DEPTH= 4 km ± 1.36km
STATIONS USED = 8, STAND DEV= 2.44s
M_L=3.3/ 3,

QZH	3.7	282	ePn	18 06 37.2	−2.6		
			SMN	M_L=3.1		0.8	0.050

1986 5 24

O = 18 40 49.8 ± 0.28s
LAT = 51.55 N ± 2.12km
LONG = 174.71 W ± 1.00km
DEPTH = 63 km ± 2.45km
STATIONS USED = 16, STAND DEV = 2.26s

MDJ	37.1	282	eP	18 47 53.0	−2.9		
CN2	40.0	283	eP	18 48 19.0	−1.5		
SNY	42.3	282	+iP	18 48 38.8	−0.2		
XAN	56.1	284	eP	18 50 21.6	−4.1		
GTA	57.9	294	P	18 50 36.5	−1.6		

1986 5 24
O = 20 58 24.3 ± 0.09s
LAT = 43.72 N ± 4.56km
LONG = 148.85 E ± 2.61km
DEPTH = 58 km ± 1.60km
STATIONS USED = 20, STAND DEV = 2.41s
Ms = 4.5 / 2,

CN2	16.9	278	eP	21 02 36.2	18.0		
BJI	24.5	273	eP	21 03 38.0	−1.8		
TIY	28.1	270	eP	21 04 15.0	1.9		
LZH	35.0	273	eP	21 05 11.5	−2.3		
GTA	36.5	281	P	21 05 24.8	−1.7		
			LZ	Ms = 4.4		14.0	0.30
WMQ	43.3	292	P	21 06 21.5	−0.8		

1986 5 24
O = 21 45 03.4 ± 0.39s
LAT = 24.18 N ± 1.49km
LONG = 121.37 E ± 3.08km
DEPTH = 19 km ± 0.96km
STATIONS USED = 13, STAND DEV = 4.39s
M_L = 3.4 / 2,

QZH	2.6	287	ePn	21 45 46.0	0.5		
			eSn	21 46 19.2	0.4		
			SMN	M_L = 3.3		0.8	0.24
			SME			0.7	0.070
SSE	6.9	359	eP	21 46 51.0	4.8		
			S *	21 48 24.5	2.8		
			eLG_2	21 48 52.5	1.7		
			LE			1.0	0.020
NJ2	8.2	345	eP	21 47 02.0	−1.8		
			eS	21 48 37.5	1.3		
			LE			1.1	0.060

1986 5 24
O = 23 47 52.6 ± 0.21s
LAT = 43.10 N ± 2.03km
LONG = 78.81 E ± 2.05km
DEPTH = 19 km ± 0.01km
STATIONS USED = 8, STAND DEV = 3.89s
M_L = 3.6 / 6,

KSH	4.2	211	ePn	23 49 00.1	3.6		
			Sn	23 49 53.8	6.7		
WMQ	6.5	81	ePn	23 49 29.4	1.5		
			Sn	23 50 45.4	1.8		
			SMN	M_L = 3.6		1.0	0.032

1986 5 25
O = 00 33 03.0 ± 0.11s
LAT = 51.66 N ± 4.70km
LONG = 175.31 W ± 1.76km
DEPTH = 33 km ± 0.60km
STATIONS USED = 48, STAND DEV = 1.70s

MDJ	36.7	281	eP	00 40 08.5	−0.4		
CN2	39.6	283	P	00 40 33.0	−0.6		
SNY	41.9	281	−iP	00 40 53.8	1.7		
DL2	44.8	279	P	00 41 16.0	0.0		
BJI	47.4	284	eP	00 41 38.0	1.2		
			PMZ			0.8	0.013
TIA	49.3	279	+P	00 41 51.5	0.4		
SSE	50.2	272	eP	00 41 59.0	1.0		
			PMZ			1.0	0.049
			epP	00 42 10.5	3.1		
NJ2	51.0	274	eP	00 42 03.0	−1.1		
TIY	51.2	284	eP	00 42 07.2	1.6		
WHN	54.8	276	eP	00 42 32.5	0.0		
XAN	55.7	283	P	00 42 38.8	−0.6		
GTA	57.5	294	eP	00 42 48.2	−3.7		
WMQ	61.0	305	eP	00 43 19.0	2.8		
CD2	61.0	284	eP	00 43 17.2	0.7		
GYA	62.5	278	+P	00 43 26.0	0.0		
KMI	65.8	280	+P	00 43 48.5	0.3		

1986 5 25
O = 03 09 18.7 ± 0.06s
LAT = 31.96 S ± 2.04km
LONG = 57.10 E ± 0.90km
DEPTH = 11 km ± 0.21km
STATIONS USED = 24, STAND DEV = 0.72s

KMI	71.6	43	−P	03 20 42.5	−0.4
GYA	74.9	45	eP	03 21 02.8	0.4
CD2	76.6	40	eP	03 21 11.8	−0.1
WMQ	80.4	22	eP	03 21 33.1	0.0
GTA	81.3	32	−P	03 21 37.8	−0.1
XAN	81.8	41	P	03 21 39.6	−0.6
TIY	86.4	41	eP	03 22 03.5	−0.1

1986 5 25
O = 07 16 59.3 ± 0.24s

LAT=51.06 N ± 2.71km
LONG=176.06 W ± 2.03km
DEPTH= 38 km ± 2.31km
STATIONS USED = 24, STAND DEV= 2.42s

SNY	41.5	282	+P	07 24 45.3	0.2		
BJI	47.1	284	eP	07 25 30.0	−0.1		
			PMZ			0.7	0.0090
BTO	50.5	289	eP	07 25 57.0	0.5		
TIY	50.9	284	eP	07 25 56.5	−2.5		
XAN	55.4	283	P	07 26 32.5	−0.3		
LZH	57.1	288	eP	07 26 44.5	−0.7		
CD2	60.7	284	P	07 27 11.1	1.0		
GYA	62.1	278	eP	07 27 16.8	−2.4		

1986 5 25
O=08 19 53.5 ± 0.23s
LAT=24.04 N ± 1.98km
LONG=121.71 E ± 0.76km
DEPTH= 13 km ± 2.03km
STATIONS USED = 12, STAND DEV= 4.51s
M_L=3.6 / 2,

QZH	3.0	288	cPn	08 20 40.7	−0.3		
			Sn	08 21 14.8	−3.8		
			SMN	M_L=3.6		1.0	0.32
			SME			1.0	0.19
XAN	15.0	315	eP	08 23 21.8	−5.2		

1986 5 25
O=08 57 23.2 ± 0.10s
LAT=31.61 N ± 1.79km
LONG=142.01 E ± 2.22km
DEPTH= 38 km ± 0.53km
STATIONS USED = 14, STAND DEV= 2.02s

CN2	17.8	318	eP	09 01 28.0	−2.6
SNY	17.9	310	−P	09 01 30.4	−1.1
TIY	25.0	292	eP	09 02 44.7	−1.0
			sS	09 07 30.0	9.3
XAN	27.8	284	−P	09 03 09.0	−2.8

1986 5 25
O=11 38 56.2 ± 0.04s
LAT=36.51 N ± 0.67km
LONG= 70.67 E ± 0.49km
DEPTH=191 km ± 0.38km
STATIONS USED = 18, STAND DEV= 0.95s

KSH	5.1	53	−iP	11 40 13.9	0.9
			S	11 41 12.9	1.1
GTA	23.1	74	+P	11 43 47.9	1.2
GYA	32.1	98	eP	11 45 08.0	−0.1

1986 5 25
O=12 25 19.1 ± 0.11s
LAT=23.66 S ± 2.80km
LONG=175.64 W ± 3.43km
DEPTH= 35 km ± 0.47km
STATIONS USED = 51, STAND DEV= 1.93s

NJ2	83.6	309	PS	12 37 46.4	−1.0		
MDJ	84.3	324	+P	12 37 50.0	0.1		
SNY	86.0	319	eP	12 37 57.8	−0.3		
CN2	86.1	322	+P	12 37 58.3	−0.3		
BJI	89.7	315	eP	12 38 15.5	−0.1		
			PMZ			1.5	0.018
GYA	90.1	299	eP	12 38 18.4	0.6		
TIY	91.0	311	P	12 38 23.3	1.3		
			PMZ			1.0	0.030
XAN	91.8	306	+P	12 38 26.0	0.4		
KMI	92.7	296	+P	12 38 31.5	1.4		
HHC	93.1	313	−P	12 38 31.2	−0.6		
BTO	94.0	313	eP	12 38 36.6	0.7		
CD2	94.3	302	eP	12 38 37.1	−0.1		
LZH	96.4	306	eP	12 38 47.5	0.7		
GTA	100.6	308	P	12 39 05.7	−0.4		

1986 5 25
O=12 56 37.0 ± 0.07s
LAT=10.98 S ± 1.64km
LONG=166.10 E ± 2.09km
DEPTH= 39 km ± 0.67km
STATIONS USED = 43, STAND DEV= 1.20s

NJ2	62.2	315	+P	13 06 57.4	−0.2
DL2	64.6	323	eP	13 07 13.5	0.0
SNY	65.5	326	eP	13 07 18.6	−0.3
CN2	65.9	329	eP	13 07 19.8	−1.6
BJI	68.6	321	eP	13 07 38.0	−0.9
GYA	68.7	304	eP	13 07 39.0	−0.2
TIY	69.7	317	eP	13 07 46.0	0.2
XAN	70.3	312	eP	13 07 48.4	−0.9
KMI	71.4	301	−P	13 07 56.5	0.6
CD2	72.8	307	eP	13 08 05.1	0.7
BTO	72.9	319	eP	13 08 05.2	0.6
LZH	75.0	312	eP	13 08 18.0	1.1
GTA	79.3	314	−P	13 08 41.4	0.5
WMQ	89.3	315	eP	13 09 31.0	−0.4

1986 5 25
O=17 00 38.5 ± 0.12s
LAT=35.23 N ± 1.36km
LONG=106.78 E ± 1.34km
DEPTH= 29 km ± 0.21km
STATIONS USED = 37, STAND DEV= 2.67s

			M_L=4.2 / 16,					
XAN	2.1	124	−Pn	17 01 13.5	0.8			
			Pg	17 01 17.6	1.2			
			Sg	17 01 44.8	−0.9			
			SMN	M_L=3.7		0.4	0.55	
			SME			0.4	0.55	
LZH	2.5	290	ePn	17 01 19.3	0.8			
			Pg	17 01 22.0	−1.6			
			Sn	17 01 51.5	1.6			
			Sg	17 01 55.0	−3.6			
			SMN	M_L=4.4		0.5	2.66	
			SME			0.5	1.87	
CD2	5.0	211	ePn	17 01 55.4	3.1			
			Pg	17 02 07.6	0.6			
			Sn	17 02 57.4	6.5			
			Sg	17 03 11.4	−4.1			
			SMN	M_L=4.4		0.5	0.33	
			SME			0.6	0.54	
TIY	5.2	60	cPn	17 01 55.3	0.6			
			Pg	17 02 12.6	2.5			
			Sn	17 02 56.8	1.6			
			Sg	17 03 15.6	−5.4			
			SMN	M_L=4.5		0.8	0.54	
			SME			0.7	0.58	
BTO	5.9	25	Pn	17 02 06.6	1.5			
			Pg	17 02 20.4	−2.9			
			Sn	17 03 10.4	−3.5			
			Sg	17 03 35.8	−8.7			
			SMN	M_L=4.2		0.8	0.17	
			SME			0.8	0.19	
			SMZ	M_L=4.0		0.8	0.080	
HHC	6.8	33	cPn	17 02 15.6	−0.8			
			LG_1	17 04 03.3	−7.4			
			LN			0.6	0.19	
			LE			0.6	0.23	
GTA	6.9	309	+Pn	17 02 18.5	−0.5			
			Pg	17 02 49.0	7.8			
			Sn	17 03 34.7	−4.2			
			Sg	17 04 14.0	−2.2			
WHN	7.9	124	cPg	17 03 05.5	7.4			
			Sg	17 04 38.5	−7.5			
GYA	8.7	181	P	17 02 43.8	−2.6			
			S	17 04 19.0	−5.7			
			SMN	M_L=4.3		1.2	0.080	
			SME			1.2	0.050	
BJI	8.9	54	P	17 02 52.0	4.3			
			LG_1	17 05 12.5	−4.2			
KMI	10.7	200	−P	17 03 16.5	3.6			
CN2	16.7	54	cP	17 04 31.0	−1.6			

1986 5 25
O = 17 35 51.3 ± 0.11s
LAT = 38.29 N ± 1.68km
LONG = 73.75 E ± 1.51km
DEPTH = 38 km ± 0.39km
STATIONS USED = 17, STAND DEV = 4.05s

			M_L=4.2 / 2,				
KSH	2.1	55	+iPg	17 36 36.8	7.9		
			Sg	17 37 01.6	3.9		
			SMN	M_L=4.5		0.3	4.10
			SME			0.4	3.40
WMQ	11.9	58	P	17 38 41.8	0.4		
			S	17 40 47.0	−6.0		
			SMN			1.0	0.018
GTA	20.3	79	P	17 40 24.3	−2.8		

1986 5 25
O = 19 23 08.3 ± 0.11s
LAT = 51.56 N ± 1.90km
LONG = 176.21 W ± 0.76km
DEPTH = 21 km ± 1.10km
STATIONS USED = 37, STAND DEV = 0.91s

CN2	39.1	282	eP	19 30 35.2	−1.1	
SNY	41.3	281	−iP	19 30 55.9	1.1	
BJI	46.9	284	eP	19 31 40.5	0.8	
BTO	50.3	288	eP	19 32 06.5	0.6	
TIY	50.6	284	P	19 32 09.8	1.1	
XAN	55.2	283	P	19 32 41.6	−1.0	
GTA	57.0	293	eP	19 32 55.0	−0.6	
CD2	60.5	283	eP	19 33 20.0	0.0	
GYA	61.9	278	P	19 33 28.8	−0.7	
KMI	65.3	280	eP	19 33 51.5	−0.4	

1986 5 25
O = 23 32 07.8 ± 0.25s
LAT = 51.39 N ± 2.71km
LONG = 174.94 W ± 1.60km
DEPTH = 32 km ± 2.41km
STATIONS USED = 40, STAND DEV = 1.43s

MDJ	37.0	282	eP	23 39 15.5	−0.6		
CN2	39.9	283	+P	23 39 40.4	−0.4		
SNY	42.2	282	−iP	23 40 00.8	1.5		
DL2	45.1	280	eP	23 40 24.0	1.0		
BJI	47.7	285	eP	23 40 44.0	0.1		
			PMZ			0.8	0.0090
SSE	50.4	272	eP	23 41 05.5	0.8		
			PMZ			1.0	0.027
BTO	51.1	289	eP	23 41 10.8	1.0		
NJ2	51.2	275	+P	23 41 11.0	0.2		
TIY	51.5	285	eP	23 41 13.0	0.3		

XAN	56.0	284	eP	23 41 45.2	−1.1		
GTA	57.8	294	P	23 41 57.5	−1.5		
CD2	61.3	284	eP	23 42 23.8	0.5		
GYA	62.7	279	P	23 42 32.2	−0.5		

1986 5 26
O = 00 16 24.5 ± 0.22s
LAT = 16.16 S ± 4.75km
LONG = 172.49 W ± 4.76km
DEPTH = 41 km ± 0.74km
STATIONS USED = 52, STAND DEV = 2.30s
Ms = 5.3 / 8, m_B = 5.8 / 6

SSE	79.1	307	eP	00 28 26.0	−1.2		
			PMZ	m_B = 5.5		10.0	0.64
			epP	00 28 34.5	−3.9		
			eS	00 38 19.0	−3.6		
			eSKS	00 38 34.0	0.7		
			SS	00 43 23.0	−7.4		
			LN	Ms = 5.4		28.0	1.18
			LE			28.0	1.16
			LZ	Ms = 5.3		28.0	1.32
MDJ	80.2	322	eP	00 28 32.0	−0.9		
NJ2	81.3	307	eP	00 28 37.0	−2.0		
			LZ	Ms = 5.0		26.0	0.60
CN2	82.2	320	+P	00 28 42.0	−1.7		
			PMZ	m_B = 6.0		6.0	1.10
			pP	00 28 50.0	−4.8		
			eS	00 38 47.0	−8.0		
			LZ	Ms = 5.3		24.0	0.90
DL2	82.3	314	eP	00 28 40.0	−4.3		
			PMZ	m_B = 6.1		6.0	1.43
			eS	00 38 50.0	−6.1		
QZN	84.0	292	eP	00 28 51.5	−1.3		
			pP	00 28 59.0	−4.9		
			eS	00 39 10.0	−2.8		
WHN	84.2	304	eP	00 28 55.0	1.0		
			sP	00 29 06.0	−3.7		
			S	00 39 12.0	−1.5		
			LE	Ms = 5.3		20.0	0.90
TIA	84.4	310	eP	00 28 54.4	−0.2		
BJI	86.6	313	eP	00 29 05.5	−0.2		
			pP	00 29 14.5	−2.4		
			eS	00 39 40.0	1.6		
			SMN	m_B = 5.9		10.0	0.85
			SME			11.0	0.84
TIY	88.4	310	P	00 29 12.5	−1.9		
			pP	00 29 23.0	−2.6		
			S	00 39 47.0	−6.5		
			LE	Ms = 5.8		20.0	2.37
GYA	89.2	298	P	00 29 18.4	0.3		
			pP	00 29 27.6	−1.7		
			S	00 39 59.0	−1.5		
XAN	89.8	306	eP	00 29 20.0	−0.9		
			pP	00 29 28.8	−3.4		
CD2	93.0	301	P	00 29 42.3	6.7		
			pP	00 29 50.0	3.2		
			SKS	00 40 10.0	6.9		
			eS	00 40 44.0	7.9		
GTA	98.3	309	eP	00 29 59.4	−0.8		
			SKS	00 40 34.0	1.5		
			LZ	Ms = 5.6		22.0	1.27

1986 5 26
O = 02 09 05.4 ± 0.09s
LAT = 7.23 N ± 1.62km
LONG = 126.23 E ± 2.06km
DEPTH = 49 km ± 0.40km
STATIONS USED = 53, STAND DEV = 1.45s
Ms = 4.4 / 4,

QZN	19.8	308	eP	02 13 33.5	−1.0		
			eS	02 17 09.0	−0.3		
			LN	Ms = 4.5		18.0	1.00
			LE			16.0	0.90
GZH	20.1	323	−P	02 13 37.0	−0.4		
			eS	02 17 15.0	0.1		
SSE	24.2	349	eP	02 14 21.5	2.7		
			pP	02 14 28.0	−2.5		
			eS	02 18 37.0	6.3		
			eSS	02 19 30.0	5.6		
			LN	Ms = 4.3		20.0	0.36
			LE			20.0	0.46
			LZ	Ms = 4.2		20.0	0.47
GYA	26.7	318	P	02 14 45.0	2.7		
KMI	28.6	311	eP	02 15 00.0	−0.1		
XAN	31.1	331	−P	02 15 20.0	−1.8		
CD2	31.6	321	eP	02 15 26.0	0.0		
			eS	02 20 33.6	3.7		
TIY	32.8	340	eP	02 15 35.6	−1.3		
BJI	33.9	346	eP	02 15 45.0	−1.0		
LZH	35.3	328	P	02 15 58.5	0.4		
HHC	35.9	341	eP	02 16 03.0	−0.7		
BTO	36.2	339	eP	02 16 06.5	0.2		
GTA	39.9	327	−iP	02 16 37.4	0.8		
			LZ	Ms = 4.6		20.0	0.55
WMQ	49.6	324	P	02 17 57.0	2.6		

1986 5 26
O = 02 59 34.7 ± 0.09s
LAT = 40.13 N ± 1.44km
LONG = 141.27 E ± 1.34km

DEPTH= 23 km ± 0.27km
STATIONS USED = 31, STAND DEV= 1.77s
Ms=4.1/ 4,

MDJ	9.7	301	eP	03 01 57.7	1.1		
DL2	15.2	272	eP	03 03 15.5	5.5		
SSE	18.6	247	eP	03 03 53.0	0.1		
			csS	03 07 28.0	1.0		
			LN	Ms=4.2		14.0	0.58
BJI	19.2	278	eP	03 03 57.5	−2.3		
TIA	19.4	266	eP	03 04 00.0	−1.8		
NJ2	19.8	253	+P	03 04 05.0	−1.5		
			LE	Ms=4.0		13.0	0.30
			LZ	Ms=3.9		16.0	0.30
TIY	22.5	273	eP	03 04 32.8	−1.8		
GZH	29.1	243	eP	03 05 36.5	0.8		
LZH	29.6	274	eP	03 05 39.5	−1.1		
GTA	31.7	282	eP	03 05 56.7	−2.4		
			LZ	Ms=4.6		18.0	0.72

1986 5 26
O=03 11 30.7 ± 0.06s
LAT=40.02 N ± 1.31km
LONG=141.33 E ± 1.09km
DEPTH= 15 km ± 0.35km
STATIONS USED = 22, STAND DEV= 1.43s

MDJ	9.8	302	eP	03 13 56.2	1.3		
BJI	19.3	278	eP	03 15 56.0	−1.5		
TIA	19.4	266	eP	03 15 58.5	−0.8		
NJ2	19.8	253	eP	03 16 03.0	−0.8		
GYA	31.8	255	eP	03 17 56.2	−1.1		

1986 5 26
O=03 34 48.5 ± 0.21s
LAT=56.42 N ± 2.53km
LONG=116.00 E ± 3.36km
DEPTH= 30 km ± 0.34km
STATIONS USED = 45, STAND DEV= 3.45s
Ms=4.6/ 7,

MDJ	14.6	138	eP	03 38 21.6	6.4		
			LG_1	03 42 19.5	−7.9		
			LN	Ms=4.7		8.0	1.60
BTO	16.3	196	eP	03 38 34.6	−2.8		
BJI	16.4	180	P	03 38 35.0	−3.2		
			LG_1	03 43 22.0	−1.6		
			LE	Ms=4.7		10.0	1.39
TIY	18.9	189	eP	03 39 13.0	3.8		
GTA	20.1	219	P	03 39 22.8	−0.1		
			LN	Ms=4.5		9.0	0.61
			LZ	Ms=4.6		9.0	0.78
TIA	20.2	177	eP	03 39 22.0	−2.2		
WMQ	21.9	247	eP	03 39 42.0	0.6		
LZH	21.9	207	eP	03 39 45.0	3.2		
XAN	22.9	195	eP	03 39 53.0	1.7		
			LN	Ms=4.6		10.0	0.63
NJ2	24.4	174	+P	03 40 08.8	2.7		
			LE	Ms=4.4		12.5	0.50
SSE	25.6	170	P	03 40 18.0	1.1		
			LE	Ms=4.4		20.0	0.69
GYA	30.7	197	P	03 41 03.6	0.3		

1986 5 26
O=04 40 55.0 ± 0.37s
LAT=22.41 N ± 1.54km
LONG=120.81 E ± 2.50km
DEPTH= 16 km ± 1.89km
STATIONS USED = 10, STAND DEV= 3.57s
M_L=3.2/ 3,

QZH	3.2	321	cPn	04 41 46.2	0.6		
			eSn	04 42 22.9	−2.8		
			SMN	M_L=3.2		1.0	0.090
			SME			1.4	0.090

1986 5 26
O=06 19 25.1 ± 0.08s
LAT= 3.05 S ± 1.20km
LONG=127.99 E ± 1.40km
DEPTH= 59 km ± 0.59km
STATIONS USED = 16, STAND DEV= 1.91s

GYA	35.9	326	eP	06 26 24.0	2.3		
KMI	37.2	320	eP	06 26 34.0	0.8		
XAN	41.0	336	eP	06 27 03.3	−1.5		
GTA	49.6	331	P	06 28 11.6	−1.3		

1986 5 26
O=08 12 27.8 ± 0.16s
LAT=27.52 N ± 2.90km
LONG=140.46 E ± 3.14km
DEPTH= 40 km ± 0.56km
STATIONS USED = 44, STAND DEV= 2.77s
Ms=4.4/10,

SSE	17.2	287	eP	08 16 10.0	−16.3		
			csS	08 19 56.0	7.8		
			LN	Ms=4.4		13.0	0.59
			LE			13.0	0.59
			LZ	Ms=4.2		13.0	0.59
MDJ	19.2	336	eP	08 16 51.2	0.3		
NJ2	19.3	289	+P	08 16 53.0	0.8		
			sS	08 20 35.0	−0.8		
			LN	Ms=4.4		11.0	0.60
DL2	19.4	311	eP	08 16 53.9	0.6		

SNY	19.9	320	+P	08 17 01.0	2.5		
			eS	08 20 37.0	2.1		
			LN	Ms=4.6		12.0	0.85
			LE			12.0	0.66
CN2	20.3	327	eP	08 17 10.0	7.2		
TIA	21.6	299	eP	08 17 15.6	−0.8		
			sS	08 21 27.0	2.7		
			LE	Ms=4.4		10.0	0.50
WHN	23.0	284	eP	08 17 31.5	1.1		
			pP	08 17 38.0	−2.4		
			eS	08 21 44.0	10.0		
			LE	Ms=4.6		12.0	0.75
BJI	23.7	308	eP	08 17 33.0	−3.7		
TIY	25.6	300	eP	08 17 54.7	−0.9		
			eS	08 22 25.5	6.8		
			LN	Ms=4.4		12.0	0.49
XAN	27.8	291	eP	08 18 14.4	−1.2		
			sS	08 23 07.0	−4.4		
GYA	30.1	276	P	08 18 35.0	−1.1		
CD2	32.1	285	eP	08 18 53.8	−0.3		
			sS	08 24 21.0	0.9		
LZH	32.1	295	eP	08 18 55.7	1.5		
GTA	35.6	300	P	08 19 23.2	−1.3		
WMQ	45.1	306	P	08 20 41.0	−1.4		

1986 5 26

O=09 41 28.6 ± 0.69s
LAT=28.76 N ± 0.89km
LONG= 96.58 E ± 5.21km
DEPTH= 8 km ± 1.18km
STATIONS USED = 6, STAND DEV= 3.52s
M_L=3.7/ 1,

LSA	4.8	282	cPn	09 42 26.0	−15.9		
KMI	6.6	122	cPn	09 43 06.5	0.3		
GYA	9.2	102	Pn	09 43 45.0	2.5		

1986 5 26

O=10 43 34.0 ± 0.20s
LAT=27.38 N ± 4.40km
LONG=140.66 E ± 3.42km
DEPTH= 30 km ± 0.74km
STATIONS USED = 41, STAND DEV= 3.66s
Ms=4.3/ 8,

SSE	17.4	287	cP	10 47 30.0	−6.2		
			LN	Ms=4.3		12.0	0.60
NJ2	19.5	289	+P	10 48 01.4	−0.2		
DL2	19.6	311	cP	10 48 06.0	3.1		
SNY	20.1	320	−P	10 48 10.4	2.4		
			S	10 51 50.0	3.3		
			LN	Ms=4.5		13.0	0.71
			LE			12.0	0.60
CN2	20.5	327	P	10 48 18.5	6.3		
TIA	21.8	300	eP	10 48 23.8	−2.0		
			LE	Ms=4.2		10.0	0.31
WHN	23.2	284	eP	10 48 38.0	−1.7		
			eS	10 52 53.0	7.1		
			LN	Ms=4.3		12.0	0.44
BJI	23.9	308	eP	10 48 43.0	−3.1		
TIY	25.8	301	eP	10 49 09.6	4.6		
			eS	10 53 37.0	6.4		
			LN	Ms=4.5		12.0	0.49
XAN	28.0	292	eP	10 49 22.7	−2.2		
			S	10 54 12.0	7.0		
BTO	28.5	305	eP	10 49 30.0	1.0		
			eS	10 54 11.5	−1.9		
GYA	30.3	276	eP	10 49 44.0	−1.1		
LZH	32.3	295	eP	10 50 07.0	3.6		
WMQ	45.3	306	−iP	10 51 55.0	3.5		

1986 5 26

O=14 47 47.4 ± 0.16s
LAT=27.06 N ± 1.67km
LONG=127.41 E ± 1.57km
DEPTH=120 km ± 0.86km
STATIONS USED = 30, STAND DEV= 2.01s

SSE	6.8	308	P	14 49 25.0	−0.6		
			eLG_1	14 51 17.5	−2.4		
			eLG_2	14 51 31.0	0.3		
			LN			1.4	0.039
			LE			1.4	0.029
NJ2	9.0	306	+P	14 49 54.6	−0.6		
			eS	14 51 35.8	1.1		
			LE			6.0	0.30
DL2	12.8	339	+P	14 50 52.8	7.1		
SNY	15.1	349	eP	14 51 15.7	0.5		
BJI	16.0	327	eP	14 51 26.0	−0.4		
TIY	16.5	314	eP	14 51 34.0	0.8		
CN2	16.8	355	P	14 51 36.0	−0.6		
XAN	17.4	298	−P	14 51 42.9	−0.9		

1986 5 26

O=17 14 05.9 ± 0.07s
LAT= 8.13 S ± 0.90km
LONG=117.82 E ± 1.13km
DEPTH= 35 km ± 0.18km
STATIONS USED = 37, STAND DEV= 0.96s

GYA	36.0	343	eP	17 21 07.0	0.5
NJ2	40.0	1	eP	17 21 40.8	1.7
CD2	41.1	341	eP	17 21 49.2	0.7
XAN	42.8	349	eP	17 22 01.6	−0.8

LSA	45.5	327	P	17 22 25.0	0.0	
TIY	45.9	354	eP	17 22 27.4	0.0	
BJI	47.9	358	eP	17 22 43.5	0.0	
BTO	49.0	352	eP	17 22 51.6	−0.3	
SNY	50.0	6	eP	17 22 58.0	−1.3	
GTA	50.2	342	P	17 23 01.0	0.3	
CN2	52.1	7	eP	17 23 14.4	−1.2	
MDJ	53.6	10	eP	17 23 26.0	−0.2	
WMQ	58.5	335	−iP	17 24 01.5	0.0	

1986 5 26

O = 18 04 35.8 ± 0.11s

LAT = 28.23 N ± 1.50km

LONG = 140.78 E ± 1.56km

DEPTH = 34 km ± 0.17km

STATIONS USED = 23, STAND DEV = 2.90s

Ms = 4.4 / 4, m_B = 5.3 / 6

NJ2	19.3	287	+P	18 09 02.0	0.7		
			S	18 12 37.0	5.4		
			SMN	m_B = 5.3		8.5	1.10
			LN	Ms = 4.5		10.0	0.70
SNY	19.5	319	+P	18 09 01.1	−2.0		
			eS	18 12 28.0	−8.3		
			LN	Ms = 4.4		12.0	0.48
			LE			12.0	0.54
CN2	19.8	326	cP	18 09 09.7	3.0		
TIA	21.5	298	cP	18 09 25.0	1.0		
WHN	23.1	282	cP	18 09 39.0	−1.2		
			PMZ	m_B = 5.3		6.0	0.79
			SMN	m_B = 5.5		6.0	0.90
TIY	25.5	299	P	18 10 02.5	−0.7		
			PMZ	m_B = 5.7		5.0	0.92
			S	18 14 29.0	3.8		
			sS	18 14 43.0	1.8		
			LN	Ms = 4.4		12.0	0.42
XAN	27.8	290	−P	18 10 21.6	−2.8		
GYA	30.3	275	cP	18 10 48.0	1.3		
WMQ	44.9	305	P	18 12 48.0	−1.6		

1986 5 26

O = 18 40 44.4 ± 0.13s

LAT = 21.81 S ± 2.66km

LONG = 178.98 W ± 1.55km

DEPTH = 595 km ± 2.33km

STATIONS USED = 86, STAND DEV = 1.17s

m_B = 6.5 / 56

QZH	76.4	304	−iP	18 51 35.0	−0.6		
			PMZ	m_B = 6.2		6.0	7.21
			PP	18 54 40.0	1.4		
			iS	19 00 33.0	−1.3		
			SS	19 05 38.0	−10.0		
SSE	77.8	311	−iP	18 51 42.0	−1.4		
			PMZ	m_B = 6.1		8.0	7.64
			sP	18 54 48.0	2.0		
			iS	19 00 44.0	−5.6		
			SMN	m_B = 6.5		9.0	4.93
			SME			9.0	6.87
			SKS	19 00 55.0	−1.7		
			ScS	19 01 03.0	−3.0		
			SS	19 06 00.0	−9.4		
GZH	79.6	300	−iP	18 51 53.0	0.4		
			PMZ	m_B = 6.4		8.0	12.5
			PP	18 55 02.0	−2.5		
			iS	19 01 10.0	2.5		
			SMN	m_B = 6.9		7.0	14.9
			SME			7.0	10.5
			SS	19 06 32.0	−3.1		
NJ2	80.0	310	−iP	18 51 54.5	−0.4		
			PMZ	m_B = 6.2		9.0	10.0
			PP	18 55 07.0	−1.2		
			iS	19 01 11.0	−1.0		
			SMN	m_B = 6.8		10.0	17.1
			SME			11.0	6.90
QZN	80.6	295	−P	18 51 58.0	0.3		
			PMZ	m_B = 6.1		9.0	7.80
			PP	18 55 08.5	−4.6		
			iS	19 01 19.5	2.0		
			SMN	m_B = 6.3		10.0	4.40
			SME			10.0	3.30
MDJ	81.1	326	cP	18 52 00.0	−0.3		
			PMZ	m_B = 6.3		7.0	8.56
			pP	18 54 07.0	1.7		
			sP	18 55 07.0	3.2		
			iS	19 01 21.0	−1.6		
			SS	19 06 55.0	−2.2		
			LN			18.0	13.3
			LE			30.0	17.0
DL2	82.1	317	−iP	18 52 05.0	−0.4		
			PMZ	m_B = 6.2		7.0	6.08
			cPP	18 55 20.0	−5.2		
			S	19 01 25.0	−5.6		
			SMN	m_B = 6.6		8.0	6.75
			SME			8.0	7.60
WHN	82.5	307	−iP	18 52 07.5	0.0		
			PMZ	m_B = 6.3		8.0	9.62
			PP	18 55 27.0	−1.6		
			SKS	19 01 22.0	−7.3		
			iS	19 01 30.0	−6.5		
			SMN	m_B = 6.5		9.0	9.20
SNY	82.6	321	−iP	18 52 07.0	−1.2		

			PMZ			15.0	6.80
			sP	18 55 08.0	−4.1		
			S	19 01 30.0	−6.2		
			SMN	m_B=6.7		9.0	6.42
			SME			8.0	9.42
CN2	82.8	323	−iP	18 52 07.8	−1.2		
			PMZ	m_B=6.5		4.0	7.00
			pP	18 54 15.0	0.5		
			iSKS	19 01 30.0	−1.3		
			iS	19 01 41.0	1.6		
			SMN	m_B=6.8		8.0	8.20
			SME			8.0	12.3
			sS	19 05 16.0	−4.6		
TIA	83.5	313	eP	18 52 12.0	−0.5		
			esP	18 55 20.0	3.5		
			S	19 01 40.1	−4.4		
			SMN	m_B=6.9		11.0	5.28
			SME			14.0	29.5
			sS	19 05 26.0	−1.8		
			LN			12.0	1.95
			LE			19.0	19.2
BJI	86.2	316	eP	18 52 24.5	−1.0		
			PMZ			1.8	1.18
			sP	18 55 33.0	2.7		
			SKS	19 01 55.0	1.2		
			eS	19 02 15.0	3.4		
			SMN	m_B=6.9		8.0	7.71
			SME			8.0	9.30
GYA	86.5	300	−P	18 52 28.0	0.8		
			PMZ	m_B=6.6		6.0	6.40
			pP	18 54 37.0	3.2		
			sP	18 55 39.0	7.1		
			PP	18 55 59.0	−2.0		
			SKS	19 01 59.0	3.1		
			S	19 02 17.0	4.2		
			SMN	m_B=6.7		10.0	9.10
			SS	19 08 22.0	6.4		
TIY	87.5	312	−iP	18 52 32.0	0.3		
			PMZ	m_B=6.8		4.0	7.16
			pP	18 54 45.5	6.9		
			sP	18 55 41.0	4.4		
			iSKS	19 02 04.0	2.0		
			S	19 02 25.0	3.3		
			SMN			13.0	14.0
			SME			10.0	11.9
			sS	19 06 10.0	2.7		
XAN	88.2	308	−iP	18 52 36.0	0.9		
			PMZ	m_B=6.6		6.0	6.24
			pP	18 54 46.0	3.7		
			SKS	19 02 06.0	−0.4		
			S	19 02 34.0	5.7		
			SMN	m_B=7.1		10.0	19.3
			SME			9.0	14.6
KMI	89.1	297	−iP	18 52 40.5	0.8		
			PMZ	m_B=6.3		6.0	2.90
			sP	18 55 50.5	5.7		
			S	19 02 42.5	5.9		
HHC	89.6	315	−iP	18 52 41.0	−0.8		
			PMZ	m_B=6.5		7.0	4.38
			PP	18 56 22.0	−4.1		
			PPMZ			8.0	1.74
			S	19 02 47.0	6.1		
			SMN	m_B=7.1		10.0	20.3
			SME			10.0	14.4
BTO	90.5	314	+iP	18 52 46.0	0.1		
			PMZ	m_B=6.5		4.0	2.61
			pP	18 54 57.0	3.4		
			sP	18 55 55.0	3.6		
			iSKS	19 02 29.0	8.9		
			iS	19 02 49.0	−1.8		
			SMN	m_B=7.1		9.0	12.2
			SME			9.0	14.4
CD2	90.7	303	−iP	18 52 48.0	1.2		
			PMZ	m_B=6.8		8.0	8.90
			PP	18 56 33.0	−0.9		
			SKS	19 02 22.0	0.8		
			SMN	m_B=7.0		9.0	14.8
GTA	97.1	310	−iP	18 53 15.7	−0.1		
			sP	18 56 17.5	−4.1		
			PP	18 57 21.4	−2.8		
			PPMZ	m_B=6.5		7.0	1.91
			SKS	19 02 55.0	0.0		
			iS	19 03 51.2	4.4		
			SMN	m_B=6.2		8.0	4.59
LSA	100.4	298	P	18 53 31.4	0.5		
			PP	18 57 41.0	−8.1		
			SKS	19 03 11.5	0.0		
			S	19 04 18.0	5.8		
			SME	m_B=6.2		7.0	1.67
			SS	19 11 26.0	−3.0		

1986 5 26
O = 19 06 15.7 ± 0.25s
LAT = 20.23 S ± 2.40km
LONG = 178.82 E ± 2.12km
DEPTH = 540 km ± 2.81km
STATIONS USED = 82, STAND DEV = 1.51s
m_B=6.8 / 54

QZH	73.8	305	−iP	19 16 57.0	−0.1		
			PMZ	m_B=6.6		5.5	10.3

			pP	19 18 50.0	−0.3		
			sP	19 19 46.0	1.5		
			iS	19 25 44.0	−1.8		
			ScS	19 26 05.0	−8.4		
			sS	19 29 06.0	2.1		
			SS	19 30 37.0	−9.0		
SSE	75.3	311	−iP	19 17 04.5	−0.8		
			PMZ	$m_B=6.4$		7.0	12.9
			PcP	19 17 16.0	0.4		
			pP	19 18 59.0	0.0		
			sP	19 19 54.0	0.9		
			PP	19 20 06.0	1.5		
			iS	19 25 56.5	−5.1		
			SMN	$m_B=6.9$		9.0	14.6
			SME			9.0	16.5
			SKS	19 26 18.0	−0.6		
			ScS	19 26 24.0	−1.2		
			sS	19 29 18.0	−2.6		
			SS	19 31 00.0	−7.2		
GZH	77.0	301	−iP	19 17 16.0	1.2		
			PMZ	$m_B=6.5$		6.0	14.2
			pP	19 19 10.0	0.9		
			sP	19 20 07.0	3.9		
			iS	19 26 21.0	0.8		
			SMN			18.0	35.1
			SME			18.0	32.1
			ScS	19 26 47.5	8.1		
			sS	19 29 49.0	8.6		
NJ2	77.4	311	−iP	19 17 17.5	0.4		
			pP	19 19 10.0	−1.6		
			sP	19 20 06.0	0.5		
			iS	19 26 23.0	−1.8		
			SME	$m_B=6.8$		8.0	18.4
QZN	78.0	295	−iP	19 17 21.0	0.6		
			PMZ	$m_B=6.1$		7.0	6.10
			pP	19 19 16.0	0.9		
			sP	19 20 15.0	6.1		
			iS	19 26 33.0	1.9		
			SMN	$m_B=6.7$		10.0	13.7
			SME			10.0	9.90
			sS	19 29 57.5	5.6		
			SS	19 31 53.0	4.0		
MDJ	78.6	327	−iP	19 17 23.3	−0.2		
			PMZ	$m_B=6.8$		6.0	25.3
			pP	19 19 18.0	−0.4		
			sP	19 20 14.0	1.8		
			iS	19 26 39.0	1.8		
			ScS	19 26 52.0	−0.6		
			sS	19 30 00.0	1.7		
DL2	79.5	318	−iP	19 17 28.0	−0.2		
			PMZ	$m_B=6.5$		6.0	13.2
			pP	19 19 23.0	−0.4		
			csP	19 20 20.0	2.9		
			S	19 26 45.0	0.2		
			SMN	$m_B=7.2$		10.0	21.4
			SME			9.0	43.3
			SKS	19 26 48.0	−1.1		
			sS	19 30 13.0	4.8		
WHN	79.9	308	P	19 17 30.5	0.3		
			pP	19 19 24.0	−1.6		
			sP	19 20 20.0	0.7		
			PP	19 20 42.0	−0.1		
			iS	19 26 49.5	−0.8		
			SME	$m_B=7.0$		10.0	32.4
SNY	80.1	321	−iP	19 17 29.6	−1.7		
			PMZ			14.0	18.3
			pP	19 19 27.0	0.3		
			sP	19 20 17.0	−3.4		
			iS	19 26 51.0	−1.4		
			SMN	$m_B=7.1$		10.0	27.5
			SME			8.0	22.4
CN2	80.3	324	−iP	19 17 31.3	−1.0		
			PMZ	$m_B=6.7$		5.0	18.3
			ipP	19 19 28.0	0.3		
			isP	19 20 22.5	1.1		
			S	19 26 45.0	−7.7		
			SME	$m_B=7.1$		8.0	31.0
TIA	80.9	314	cP	19 17 35.1	−0.4		
			PMZ	$m_B=6.5$		8.0	16.3
			csP	19 20 28 1	3.4		
			S	19 26 55.1	−3.8		
BJI	83.6	317	−iP	19 17 49.0	−0.1		
			PMZ	$m_B=6.6$		6.0	14.4
			pP	19 19 46.0	0.3		
			sP	19 20 43.0	3.9		
			S	19 27 18.0	−7.6		
			SMN	$m_B=7.1$		7.0	11.2
			SME			6.0	19.9
			SMZ			14.0	16.6
GYA	83.9	301	P	19 17 51.4	0.6		
			PMZ	$m_B=6.3$		6.0	7.20
			pP	19 19 50.0	2.7		
			sP	19 20 43.0	2.3		
			S	19 27 22.0	−6.6		
			SMN	$m_B=7.0$		9.0	18.3
			SME			9.0	16.6
			sS	19 31 00.0	4.9		
TIY	84.9	313	−iP	19 17 55.6	0.1		
			PMZ			1.2	2.07
			pP	19 19 53.5	1.2		

			SKS	19 27 28.0	2.0		
			S	19 27 43.5	5.8		
			SMN	$m_B = 7.2$		9.0	23.9
			SME			9.0	27.2
XAN	85.6	309	−iP	19 17 59.4	0.5		
			PMZ	$m_B = 6.7$		8.0	14.0
			pP	19 19 58.0	2.1		
			SKS	19 27 31.0	0.3		
			S	19 27 48.2	3.7		
			sS	19 31 17.5	5.4		
KMI	86.6	298	−iP	19 18 06.0	2.3		
			PMZ	$m_B = 6.5$		6.0	6.40
			SKS	19 27 40.0	3.1		
			S	19 27 59.0	5.5		
			sS	19 31 26.0	4.4		
HHC	87.1	316	−iP	19 18 05.0	−0.8		
			pP	19 20 03.0	−0.1		
			sP	19 20 56.0	−0.2		
			SKS	19 27 41.0	1.1		
			S	19 28 04.0	6.2		
			sS	19 31 33.0	6.8		
BTO	88.0	315	−iP	19 18 10.5	0.5		
			PMZ	$m_B = 6.8$		6.0	11.3
			ipP	19 20 10.0	2.4		
			iSKS	19 27 45.0	−0.4		
			iS	19 28 04.0	−3.9		
			SMN	$m_B = 7.4$		11.0	31.6
			SME			11.0	38.7
			SS	19 34 07.0	−6.7		
CD2	88.1	304	−iP	19 18 13.0	2.1		
			PMZ	$m_B = 6.9$		6.0	12.6
			pP	19 20 10.0	1.5		
			SKS	19 27 48.0	1.4		
			S	19 28 13.0	5.3		
			SMN	$m_B = 7.6$		7.0	48.0
			sS	19 31 45.0	8.0		
LZH	90.3	309	−iP	19 18 22.3	1.5		
			PMZ	$m_B = 6.8$		6.0	8.09
			pP	19 20 20.0	1.1		
			SKS	19 27 58.0	−1.1		
			S	19 28 33.0	6.5		
			sS	19 32 07.0	9.7		
GTA	94.5	310	−iP	19 18 40.6	0.3		
			PMZ	$m_B = 6.5$		7.5	3.43
			pP	19 20 40.2	1.5		
			iPP	19 22 34.0	−4.9		
			iS	19 29 10.0	4.8		
			SMN	$m_B = 7.1$		8.0	18.4
			sS	19 32 42.0	6.3		
LSA	97.8	299	−iP	19 18 55.4	−0.3		
			PP	19 23 02.0	−2.9		
			iSKS	19 28 41.0	0.7		
			iS	19 29 35.0	1.3		
			SME	$m_B = 6.7$		6.0	9.75
			PS	19 32 03.5			
			iSS	19 36 28.0	−4.1		

1986 5 26

O = 19 48 36.2 ± 0.14s
LAT = 20.53 S ± 3.31km
LONG = 177.89 E ± 3.57km
DEPTH = 634 km ± 1.81km
STATIONS USED = 48, STAND DEV = 1.81s

QZN	77.4	296	cP	19 59 30.9	1.2		
MDJ	78.4	327	−iP	19 59 36.0	0.9		
DL2	79.2	319	P	19 59 39.8	0.7		
WHN	79.4	308	P	19 59 41.0	0.7		
CN2	80.0	324	−iP	19 59 44.3	0.7		
BJI	83.2	317	cP	20 00 00.5	0.6		
GYA	83.3	301	P	20 00 00.8	0.3		
TIY	84.5	314	cP	20 00 03.8	−2.2		
XAN	85.1	309	−iP	20 00 10.3	1.2		
BTO	87.5	315	cP	20 00 21.0	0.4		
CD2	87.6	304	cP	20 00 23.2	2.4		
LZH	89.8	309	cP	20 00 31.0	0.0		
GTA	94.0	311	P	20 00 46.4	−4.2		

1986 5 26

O = 20 29 29.3 ± 0.18s
LAT = 9.02 N ± 2.96km
LONG = 126.69 E ± 3.11km
DEPTH = 53 km ± 0.35km
STATIONS USED = 56, STAND DEV = 2.52s

GZH	19.0	319	cP	20 33 48.0	−1.0		
QZN	19.1	303	cP	20 33 50.2	−0.6		
SSE	22.6	348	+P	20 34 27.3	1.1		
			PMZ			0.9	0.099
			pP	20 34 37.5	−1.0		
			sP	20 34 40.0	−4.4		
			cS	20 38 32.0	7.1		
			sS	20 38 47.0	1.3		
			SS	20 39 17.0	8.7		
NJ2	24.0	343	+P	20 34 40.8	0.1		
WHN	24.3	333	cP	20 34 42.5	−0.8		
GYA	25.7	315	cP	20 35 04.4	7.6		
KMI	27.9	308	cP	20 35 14.5	−2.1		
TIA	28.4	344	cP	20 35 20.3	−1.3		
XAN	29.8	329	−P	20 35 31.0	−2.6		
DL2	30.1	352	cP	20 35 36.9	0.5		
CD2	30.5	319	P	20 35 44.6	4.5		

TIY	31.3	338	eP	20 35 44.6	−2.8
BJI	32.3	345	eP	20 35 55.0	−0.6
SNY	32.8	356	+P	20 36 00.4	0.4
LZH	34.0	326	eP	20 36 17.0	6.1
BTO	34.8	337	eP	20 36 17.0	−0.1
MDJ	35.6	4	eP	20 36 24.0	0.3
GTA	38.6	326	eP	20 36 48.3	−1.5
LSA	39.1	307	−P	20 36 52.0	−1.9

1986 5 26
O = 20 33 11.9 ± 0.03s
LAT = 8.93 N ± 0.51km
LONG = 126.63 E ± 0.72km
DEPTH = 39 km ± 0.17km
STATIONS USED = 13, STAND DEV = 0.72s

QZN	19.1	303	eP	20 37 33.9	−0.7
SNY	32.9	356	−iP	20 39 44.7	−0.1
MDJ	35.6	4	eP	20 40 08.0	−0.6

1986 5 26
O = 20 37 41.8 ± 0.17s
LAT = 9.08 N ± 2.36km
LONG = 126.70 E ± 3.34km
DEPTH = 82 km ± 1.17km
STATIONS USED = 42, STAND DEV = 2.71s

GZH	18.9	319	eP	20 41 56.1	−2.6	
QZN	19.1	303	eP	20 42 02.0	1.3	
SSE	22.5	348	eP	20 42 34.5	−1.0	
			PMZ		0.9	0.095
WHN	24.3	333	eP	20 42 58.0	5.4	
XAN	29.7	329	eP	20 43 39.6	−3.3	
DL2	30.0	352	eP	20 43 52.5	7.0	
BJI	32.2	345	eP	20 44 04.0	−0.7	
SNY	32.7	356	+iP	20 44 09.2	0.1	
CN2	34.6	358	eP	20 44 24.5	−0.7	
MDJ	35.5	4	eP	20 44 33.4	0.7	
GTA	38.6	326	eP	20 44 57.0	−1.9	
LSA	39.1	307	P	20 45 02.2	−1.0	
WMQ	48.4	322	P	20 46 09.6	−8.6	

1986 5 26
O = 21 07 02.8 ± 0.14s
LAT = 29.16 N ± 4.74km
LONG = 51.99 E ± 2.09km
DEPTH = 30 km ± 0.82km
STATIONS USED = 23, STAND DEV = 2.04s

KSH	22.3	56	eP	21 12 01.7	2.5
GTA	40.4	62	+iP	21 14 41.8	1.3
LZH	43.8	67	eP	21 15 09.0	0.8
GYA	48.1	79	P	21 15 41.0	−1.2
XAN	48.2	69	+P	21 15 42.2	−1.0
TIY	50.4	64	eP	21 16 01.0	1.0
TIA	54.4	65	eP	21 16 28.8	−0.8

1986 5 26
O = 23 12 29.2 ± 0.12s
LAT = 30.27 N ± 1.31km
LONG = 103.29 E ± 1.33km
DEPTH = 31 km ± 0.27km
STATIONS USED = 27, STAND DEV = 3.09s
Ms = 3.8 / 4, M_L = 4.0 / 9,

GYA	4.8	141	Pn	23 13 42.4	2.1		
			Pg	23 14 03.6	9.1		
			Sn	23 14 40.6	3.9		
			Sg	23 15 10.0	9.4		
			SMN	M_L = 4.1		1.2	0.29
			SME			1.2	0.23
			LN	Ms = 3.9		5.0	0.70
			LE			5.0	0.70
KMI	5.2	186	+Pn	23 13 50.0	5.0		
			Sn	23 14 49.0	4.1		
			LN	Ms = 3.6		8.0	0.70
XAN	6.1	50	+Pn	23 13 57.2	−0.2		
			Pg	23 14 20.3	3.8		
			Sn	23 15 06.3	−1.3		
			Sg	23 15 43.3	3.7		
			SMN	M_L = 4.6		1.0	0.52
			SME			1.0	0.34
GTA	9.6	344	cP	23 14 43.6	−4.4		
			LN	Ms = 3.7		9.0	0.34
LSA	10.5	270	P	23 15 02.8	0.8		
GZH	11.5	126	cP	23 15 11.0	−3.3		
			cS	23 17 16.5	−6.1		
			LN	Ms = 4.5		5.0	0.80

1986 5 27
O = 04 55 47.7 ± 0.17s
LAT = 23.98 N ± 1.96km
LONG = 121.74 E ± 1.88km
DEPTH = 24 km ± 2.61km
STATIONS USED = 9, STAND DEV = 2.83s
Ms = 3.9 / 2, M_L = 3.7 / 2,

QZH	3.0	289	cPn	04 56 35.0	0.4		
			S	04 57 10.3	−0.6		
			SMN	M_L = 3.7		1.0	0.36
			SME			1.0	0.23
NJ2	8.4	343	eP	04 57 50.6	−1.0		
			S	04 59 24.0	−2.9		
			LZ	Ms = 3.8		10.0	0.60
GYA	13.9	283	eP	04 59 28.8	23.7		

			LE		Ms=4.0	8.0	0.30

1986 5 27
O=07 58 39.7 ± 0.16s
LAT= 2.68 S ± 2.44km
LONG=119.79 E ± 2.17km
DEPTH= 33 km ± 0.41km
STATIONS USED = 64, STAND DEV= 1.54s
Ms=4.9/16, m_B=5.6/3

QZN	23.7	336	eP	08 03 50.0	0.5		
			sP	08 03 57.5	−5.0		
			S	08 08 00.0	1.7		
			sS	08 08 11.0	−2.7		
			SS	08 08 48.0	0.2		
			LN	Ms=4.6		20.0	1.40
GZH	26.4	347	eP	08 04 15.6	0.6		
			eS	08 08 52.0	7.9		
			LN	Ms=4.9		30.0	2.99
GYA	31.6	337	P	08 05 03.0	0.7		
			pP	08 05 07.0	−4.3		
			S	08 10 12.0	4.8		
			LE	Ms=4.9		16.0	1.40
KMI	32.2	330	+P	08 05 09.0	1.5		
			LN	Ms=5.0		16.0	1.60
WHN	33.4	351	P	08 05 19.0	1.0		
			PMZ	m_B=5.8		4.0	0.65
			pP	08 05 25.0	−2.2		
			eS	08 10 40.0	3.6		
			SMN	m_B=5.1		10.0	0.37
			LN	Ms=4.8		12.0	0.66
SSE	33.6	2	eP	08 05 15.5	−3.9		
			eS	08 10 35.0	−4.0		
			csS	08 10 46.0	−8.4		
			eSS	08 12 41.0	−2.6		
			eScS	08 15 38.0	−1.4		
			LN	Ms=4.8		22.0	1.24
CD2	36.7	337	eP	08 05 46.7	0.6		
			pP	08 05 51.0	−4.3		
			eS	08 11 30.4	3.0		
			LZ	Ms=5.1		20.0	2.20
XAN	37.9	345	+P	08 05 55.3	−0.9		
			S	08 11 50.0	5.4		
			LE	Ms=4.8		13.0	0.67
TIA	38.8	357	eP	08 06 03.2	0.1		
TIY	40.8	351	P	08 06 20.0	0.3		
			S	08 12 29.5	2.3		
			LE	Ms=4.7		14.0	0.48
LZH	41.3	340	P	08 06 25.0	0.4		
LSA	42.3	322	P	08 06 33.0	0.4		
BJI	42.6	356	cP	08 06 35.0	−0.1		
			cpP	08 06 39.0	−5.5		
			eS	08 13 00.0	4.2		
HHC	44.0	351	P	08 06 44.0	−2.0		
BTO	44.0	349	P	08 06 46.0	−0.2		
			csP	08 06 55.0	−4.4		
			cPP	08 08 30.0	−0.1		
			eS	08 13 14.0	−1.8		
			csS	08 13 24.5	−6.6		
			LN	Ms=4.9		15.0	0.50
			LE			15.0	0.50
SNY	44.4	4	−P	08 06 48.2	−1.4		
			pP	08 06 55.6	−3.4		
			S	08 13 22.0	1.0		
			SS	08 16 36.0	3.1		
			LN	Ms=5.1		24.0	1.30
			LE			24.0	1.27
GTA	45.7	338	+P	08 06 59.0	−1.2		
			pP	08 07 05.3	−4.2		
			S	08 13 49.0	9.3		
			eS	08 13 42.0	1.0		
			SMN	m_B=5.6		7.0	0.60
CN2	46.5	6	eP	08 07 02.0	−4.4		
MDJ	47.9	9	eP	08 07 15.5	−1.5		
WMQ	54.5	332	P	08 08 07.0	−0.2		
KSH	58.1	321	+P	08 08 34.0	1.2		
			cpP	08 08 38.0	−4.2		
			eS	08 16 36.0	5.8		
			sS	08 16 44.0	−1.8		

1986 5 27
O=08 54 05.8 ± 0.14s
LAT= 7.04 S ± 2.29km
LONG=124.18 E ± 2.66km
DEPTH=627 km ± 0.82km
STATIONS USED = 92, STAND DEV= 1.45s
m_B=5.8/42

QZN	29.5	332	+P	08 59 23.2	−0.6		
			−iP	08 59 25.5	2.2		
			sP	09 02 12.0	−0.8		
			ScP	09 04 58.0	6.8		
			S	09 03 35.0	−2.4		
			SMN	m_B=5.4		10.0	2.10
			SME			7.5	1.50
			PcS	09 05 58.0	8.6		
GZH	31.8	341	P	08 59 43.5	0.7		
			PMZ			3.0	2.89
			S	09 04 10.0	−1.9		
			SMN	m_B=5.7		7.0	3.10
			SME			7.0	1.23
QZH	32.2	350	−iP	08 59 48.0	1.0		

			PMZ		$m_B = 5.8$	4.0	0.99
			iS	09 04 12.0	−8.2		
GYA	37.4	334	P	09 00 29.6	0.1		
			PMZ		$m_B = 6.0$	5.0	2.00
			PcP	09 02 34.0	2.9		
			S	09 05 34.0	−1.8		
			SMN		$m_B = 5.6$	7.0	2.50
			ScP	09 05 26.0	7.1		
			PcS	09 06 15.0	−2.3		
			ScS	09 09 35.0	5.9		
			SS	09 08 43.0	−4.8		
SSE	38.0	356	P	09 00 34.7	0.1		
			PMZ		$m_B = 6.1$	4.0	2.27
			PP	09 02 22.0	−1.2		
			PcP	09 02 35.0	1.9		
			sP	09 03 23.0	−5.0		
			cScP	09 05 25.0	3.7		
			S	09 05 44.0	−1.2		
			SMN		$m_B = 5.7$	8.0	4.03
			cPcS	09 06 23.0	3.3		
			csS	09 08 51.0	−1.0		
			SS	09 09 04.0	4.9		
KMI	38.2	328	cP	09 00 37.0	0.9		
			PP	09 02 24.5	−0.1		
			sP	09 03 28.0	−1.2		
			S	09 05 51.0	3.6		
WHN	38.5	346	P	09 00 39.0	0.3		
			PMZ		$m_B = 6.1$	4.0	2.32
			PP	09 02 24.0	−4.0		
			PcP	09 02 38.0	3.3		
			sP	09 03 30.0	−2.3		
			iS	09 05 52.0	−1.6		
			SMN		$m_B = 5.7$	8.0	3.71
			PcS	09 06 25.0	3.3		
			sS	09 08 56.0	−4.1		
			cSS	09 09 14.0	6.3		
NJ2	39.2	353	−P	09 00 44.4	0.3		
			PMZ			3.0	3.40
			iPcP	09 02 40.0	3.1		
			sP	09 03 33.0	−4.9		
			iScP	09 05 32.3	6.5		
			iS	09 06 00.0	−3.2		
			SMN		$m_B = 6.0$	8.5	8.40
CD2	42.5	334	−P	09 01 10.2	−0.1		
			PMZ			3.0	2.50
			PcP	09 02 50.0	2.1		
			pP	09 02 55.3	−1.9		
			iS	09 06 49.0	−1.3		
			SMN		$m_B = 6.0$	8.0	6.20
XAN	43.3	341	−iP	09 01 15.6	−1.2		
			PMZ			1.2	0.66
			PcP	09 02 52.7	2.0		
			sP	09 04 07.5	−4.9		
			ScP	09 05 48.8	6.5		
			PcS	09 06 45.0	4.4		
			S	09 06 59.0	−2.0		
			SME		$m_B = 5.7$	8.0	2.80
			SMZ			9.0	1.20
			ScS	09 10 10.4	5.2		
TIA	43.5	352	−P	09 01 18.3	0.0		
			PcP	09 02 54.9	3.5		
			ScP	09 05 49.5	6.4		
			PcS	09 06 48.2	6.8		
			S	09 07 00.0	−3.7		
			SMN		$m_B = 5.6$	9.0	1.76
			SME			6.0	1.58
TIY	45.8	347	−iP	09 01 36.0	−0.2		
			PMZ		$m_B = 5.8$	5.0	1.49
			pP	09 03 26.0	0.7		
			sP	09 04 23.5	−9.4		
			S	09 07 35.0	−1.0		
			SME		$m_B = 5.8$	10.0	3.76
			ScS	09 10 17.5	−4.0		
BJI	47.4	352	cP	09 01 47.0	−0.9		
			PMZ		$m_B = 5.8$	5.0	1.52
			PcP	09 03 08.0	2.6		
			pP	09 03 34.0	−4.3		
			csP	09 04 40.0	−5.5		
			ScP	09 06 05.0	5.7		
			S	09 07 54.0	−3.6		
			ScS	09 10 37.0	5.0		
LSA	48.4	321	P	09 01 54.8	−0.8		
			pP	09 03 48.0	1.8		
			sP	09 04 50.5	−2.8		
			S	09 08 02.0	−8.9		
			SMN		$m_B = 5.8$	7.0	2.23
			ScS	09 10 42.0	3.5		
SNY	48.6	359	+iP	09 01 55.7	−1.2		
			PMZ		$m_B = 5.9$	5.0	2.07
			PcP	09 03 10.5	0.7		
			pP	09 03 46.0	−2.2		
			PP	09 03 57.0	−3.1		
			sP	09 04 48.0	−7.2		
			ScP	09 06 10.2	5.8		
			PcS	09 07 09.3	7.1		
			S	09 08 08.0	−6.1		
			SMN		$m_B = 5.8$	8.0	2.29
HHC	49.0	347	−iP	09 01 59.0	−1.2		
			PcP	09 03 13.0	1.7		
			pP	09 03 48.0	−3.6		

			S	09 08 17.0	−2.7		
BTO	49.2	346	+iP	09 02 00.5	−0.5		
			PcP	09 03 13.0	1.2		
			pP	09 03 50.0	−2.5		
			sP	09 04 55.0	−4.4		
			S	09 08 19.0	−2.3		
			SMN	m_B = 5.5		9.0	1.10
			SME			9.0	1.00
			csS	09 11 34.0	−7.3		
CN2	50.6	1	−iP	09 02 11.0	−0.5		
			PMZ	m_B = 5.6		4.0	1.00
			iPcP	09 03 18.0	0.8		
			cpP	09 04 01.0	−3.1		
			ScP	09 06 17.0	4.2		
			S	09 08 38.0	−2.8		
			SMN	m_B = 5.8		7.0	1.80
GTA	51.4	336	P	09 02 17.1	−0.4		
			PcP	09 03 24.1	3.9		
			pP	09 04 08.4	−2.2		
			PP	09 04 26.7	1.5		
			sP	09 05 09.0	−8.1		
			ScP	09 06 23.5	7.1		
			S	09 08 53.8	2.1		
			ScS	09 11 05.0	5.6		
			sS	09 12 10.0	−3.9		
			SMN			16.0	2.20
MDJ	51.6	5	−iP	09 02 20.0	1.1		
			PMZ	m_B = 5.9		4.0	2.05
			PcP	09 03 23.0	1.9		
			pP	09 04 10.0	−2.3		
			sP	09 05 14.0	−4.8		
			ScP	09 06 20.0	2.7		
			PcS	09 07 18.0	2.8		
			iS	09 08 58.0	2.3		
			SMN	m_B = 6.1		8.0	3.98
			ScS	09 11 07.0	6.1		
			sS	09 12 17.0	0.0		
			SS	09 12 46.0	2.3		
WMQ	60.4	330	P	09 03 18.6	−0.4		
			PMZ			3.0	1.34
			PcP	09 03 58.8	3.4		
			pP	09 05 19.0	0.3		
			S	09 10 50.0	3.0		
			SMN	m_B = 6.1		6.0	2.67
KSH	64.2	320	−P	09 03 46.0	2.7		
			PcP	09 04 12.0	1.0		
			pP	09 05 51.0	5.7		
			sP	09 06 49.0	0.0		
			S	09 11 39.0	6.0		
			ScS	09 12 43.0	9.3		
			sS	09 15 09.0	1.1		

1986 5 27
O = 10 01 14.9 ± 0.12s
LAT = 15.92 S ± 2.54km
LONG = 172.70 W ± 2.94km
DEPTH = 40 km ± 0.41km
STATIONS USED = 29, STAND DEV = 1.61s

MDJ	79.8	322	cP	10 13 21.0	−0.8	
CN2	81.9	320	+P	10 13 31.0	−1.7	
SNY	82.1	317	cP	10 13 33.4	−0.3	
BJI	86.3	313	cP	10 13 55.0	0.2	
			cS	10 24 36.0	9.9	
TIY	88.1	310	cP	10 14 03.6	0.0	
			S	10 24 42.0	0.7	
GYA	88.9	298	P	10 14 08.2	0.9	
XAN	89.5	306	cP	10 14 09.6	−0.5	
GTA	98.0	309	cP	10 14 49.0	−0.4	

1986 5 27
O = 22 03 09.9 ± 0.07s
LAT = 15.46 S ± 0.92km
LONG = 173.81 W ± 0.89km
DEPTH = 33 km ± 0.22km
STATIONS USED = 34, STAND DEV = 0.74s

MDJ	78.8	323	cP	22 15 12.0	−0.1	
CN2	80.9	320	+P	22 15 22.8	−0.3	
SNY	81.1	318	cP	22 15 24.1	0.1	
BJI	85.2	314	cP	22 15 45.5	0.2	
TIY	87.0	310	cP	22 15 54.0	0.0	
GYA	87.7	298	P	22 15 58.4	0.8	
XAN	88.3	306	cP	22 16 00.8	0.3	
KMI	90.7	296	cP	22 16 13.0	1.2	
GTA	96.9	309	P	22 16 40.0	−0.2	

1986 5 27
O = 22 07 58.0 ± 0.14s
LAT = 7.76 S ± 2.38km
LONG = 151.02 E ± 3.92km
DEPTH = 34 km ± 0.31km
STATIONS USED = 74, STAND DEV = 1.65s
Ms = 4.6 / 7, m_B = 5.5 / 4

QZH	45.3	317	−P	22 16 14.5	−0.5		
			cS	22 22 52.0	−0.9		
			LE	Ms = 4.4		9.0	0.13
GZH	47.9	311	cP	22 16 33.0	−2.6		
SSE	48.0	325	−P	22 16 36.0	−0.5		
			PMZ			1.4	0.087
			csS	22 23 46.0	−1.8		
			LN	Ms = 5.0		28.0	1.04

			LE			30.0	1.03
QZN	48.5	304	−P	22 16 40.0	−0.3		
			eS	22 23 38.0	−0.6		
NJ2	50.1	324	−P	22 16 52.6	0.3		
			sP	22 17 12.0	6.1		
			S	22 24 00.0	0.8		
			LN	Ms = 5.0		10.0	0.50
WHN	51.8	319	eP	22 17 05.5	0.1		
			PMZ			2.0	0.83
			sP	22 17 26.0	6.8		
			eS	22 24 27.0	2.7		
			SMN	m_B = 5.4		8.0	0.40
DL2	53.9	332	eP	22 17 20.7	0.2		
TIA	54.1	326	−P	22 17 21.3	−1.0		
GYA	54.8	310	−P	22 17 27.6	−0.3		
			sS	22 25 23.0	1.6		
SNY	55.4	335	−P	22 17 31.0	−0.6		
			PMZ	m_B = 5.6		8.0	0.57
			S	22 25 19.0	7.9		
			LN	Ms = 4.6		34.0	0.49
MDJ	55.6	342	+P	22 17 33.0	−0.2		
CN2	56.3	338	−iP	22 17 37.0	−1.3		
KMI	57.2	306	−P	22 17 46.0	0.8		
			pP	22 17 54.0	−0.7		
			eS	22 25 45.0	7.6		
XAN	57.6	319	−iP	22 17 46.6	−1.0		
			pP	22 17 54.4	−2.9		
TIY	57.8	324	P	22 17 47.9	−1.2		
			eS	22 25 49.5	4.8		
CD2	59.4	313	P	22 18 00.0	0.1		
			PMZ			1.1	0.53
			eS	22 26 06.0	1.0		
BTO	61.1	325	+iP	22 18 12.0	−0.2		
			PMZ			3.0	0.67
LZH	62.2	318	−iP	22 18 19.5	0.5		
			PMZ			1.5	1.03
GTA	66.7	319	−iP	22 18 47.7	−0.5		
			PMZ	m_B = 5.8		4.0	0.53
			eS	22 27 34.5	−1.9		
			SME	m_B = 5.4		8.0	0.36
			LZ	Ms = 4.6		28.0	0.32
LSA	68.5	306	P	22 18 58.8	−1.2		
			cS	22 28 03.8	4.9		
WMQ	76.7	318	P	22 19 48.7	0.2		
KSH	83.5	311	−P	22 20 25.8	1.1		
			S	22 30 47.8	6.6		

1986 5 28
O = 01 45 04.2 ± 0.09s
LAT = 8.77 S ± 0.84km
LONG = 116.30 E ± 0.83km
DEPTH = 126 km ± 0.72km
STATIONS USED = 14, STAND DEV = 1.39s

XAN	43.1	351	eP	01 52 54.4	0.0	
BJI	48.6	360	eP	01 53 37.0	−0.1	
GTA	50.3	343	P	01 53 51.0	0.3	

1986 5 28
O = 03 57 20.9 ± 0.21s
LAT = 23.96 N ± 2.76km
LONG = 121.63 E ± 2.74km
DEPTH = 32 km ± 0.94km
STATIONS USED = 40, STAND DEV = 3.19s
Ms = 4.5 / 12, M_L = 3.8 / 3,

QZH	2.9	290	cPn	03 58 06.1	0.4		
			Sn	03 58 41.5	0.1		
			LN			1.0	1.04
			LE			1.0	0.63
SSE	7.1	357	cPn	03 59 02.7	−0.5		
			LG_1	04 01 10.0	5.5		
			LG_2	04 01 25.0	9.3		
			LN			1.2	0.065
			LE			1.2	0.16
GZH	7.7	265	Pn	03 59 13.0	2.5		
			Sn	04 00 40.0	1.8		
			LN			0.8	0.090
			LE			0.8	0.060
NJ2	8.4	344	cP	03 59 21.4	−2.3		
			S	04 00 56.5	−2.0		
			LN	Ms = 4.6		10.0	3.50
			LZ	Ms = 4.2		9.0	1.30
WHN	9.2	317	cP	03 59 31.5	−3.1		
			pP	03 59 35.5	−5.9		
			LG_1	04 02 16.0	5.8		
			LG_2	04 02 30.0	5.2		
			LN	Ms = 4.5		8.0	1.41
			LE			10.0	1.56
QZN	12.0	248	cP	04 00 12.0	−1.0		
			cS	04 02 28.6	1.6		
GYA	13.8	284	P	04 00 36.0	−0.5		
			S	04 03 09.0	0.2		
			SMN			1.6	0.13
			LN	Ms = 4.6		10.0	0.60
			LE			10.0	1.70
XAN	15.0	315	cP	04 00 52.1	0.0		
			LG_1	04 05 17.0	6.0		
			LG_2	04 05 36.0	1.3		
			LN	Ms = 4.4		8.0	0.40
			LE			10.0	0.84
TIY	15.8	332	eP	04 01 08.5	5.6		

			LG_2	04 06 01.0	−1.3			
			LN	Ms=4.6		9.0	0.97	
			LE			10.0	0.72	
BJI	16.7	345	cP	04 01 18.0	4.1			
CD2	17.3	297	cP	04 01 24.4	2.7			
			cLG_2	04 06 59.0	7.4			
SNY	17.9	5	cP	04 01 29.0	−0.1			
			sS	04 05 00.0	3.1			
			LE	Ms=4.1		18.0	0.59	
LZH	19.5	312	cP	04 01 52.5	3.6			
			LN	Ms=4.7		9.0	0.53	
			LE			8.0	0.73	
CN2	20.0	8	cP	04 01 51.0	−3.2			
MDJ	21.6	16	cP	04 02 10.5	0.2			
GTA	24.0	315	cP	04 02 35.8	1.5			
			LE	Ms=4.4		10.0	0.42	

1986 5 28

O=13 20 08.1 ± 0.11s
LAT=51.14 N ± 0.95km
LONG=176.16 W ± 0.83km
DEPTH= 42 km ± 0.95km
STATIONS USED = 14, STAND DEV= 1.29s

XAN	55.3	283	cP	13 29 39.4	−1.3			
GYA	62.0	278	P	13 30 28.4	1.3			

1986 5 28

O=13 33 46.0 ± 0.21s
LAT=20.18 N ± 2.79km
LONG=116.26 W ± 5.00km
DEPTH= 9 km ± 1.05km
STATIONS USED = 25, STAND DEV= 2.75s

CN2	94.9	320	−P	13 47 10.0	−0.9			
SNY	97.2	319	cP	13 47 18.5	−2.6			
XAN	111.0	321	cP	13 52 24.7	3.8			

1986 5 28

O=14 42 06.5 ± 0.12s
LAT= 9.05 N ± 1.71km
LONG=126.54 E ± 2.47km
DEPTH= 54 km ± 0.21km
STATIONS USED = 70, STAND DEV= 1.42s
Ms=4.8/21, m_B=5.3/ 4

QZH	17.5	335	cP	14 46 08.0	−0.8			
			cS	14 49 24.0	4.6			
			sS	14 49 40.0	4.0			
			LN	Ms=4.5		16.0	1.45	
GZH	18.8	319	P	14 46 24.7	0.0			
			LN	Ms=4.9		16.0	2.84	
			LE			16.0	1.63	
QZN	19.0	303	cP	14 46 26.0	−0.4			
			pP	14 46 35.5	−1.3			
			sP	14 46 42.0	−1.4			
			cS	14 49 53.0	1.0			
			SS	14 50 13.0	−4.8			
			LN	Ms=4.8		16.0	1.50	
			LE			16.0	1.60	
SSE	22.5	348	+P	14 47 03.0	0.3			
			PMZ			1.0	0.20	
			cpP	14 47 14.0	−1.1			
			csP	14 47 20.0	−1.1			
			S	14 51 09.0	8.9			
			sS	14 51 20.0	−1.8			
			cSS	14 51 46.0	2.0			
			LN	Ms=4.6		18.0	1.35	
			LZ	Ms=4.6		18.0	1.16	
NJ2	24.0	344	+P	14 47 18.0	0.9			
			PMZ	m_B=5.4		4.0	0.70	
			pP	14 47 29.5	−0.2			
			S	14 51 26.0	−0.1			
			LN	Ms=4.6		12.0	0.80	
WHN	24.2	334	cP	14 47 19.0	−0.6			
			cS	14 51 32.0	0.8			
			SMN	m_B=5.3		7.0	0.53	
			sS	14 51 53.0	0.4			
			LE	Ms=4.9		19.0	2.32	
GYA	25.6	315	cP	14 47 35.0	2.2			
			sP	14 47 52.4	1.3			
			S	14 52 01.4	8.2			
			ScP	14 54 40.6	5.0			
			LN	Ms=4.8		16.0	0.80	
			LE			16.0	1.40	
KMI	27.7	308	cP	14 47 51.5	−1.1			
TIA	28.4	344	cP	14 47 56.7	−1.4			
			S	14 52 40.5	2.2			
			LE	Ms=4.8		14.0	0.99	
XAN	29.7	329	cP	14 48 07.2	−2.7			
			pP	14 48 17.5	−5.2			
			sP	14 48 23.0	−5.5			
			S	14 53 07.0	7.7			
DL2	30.0	352	cP	14 48 13.9	0.8			
CD2	30.4	319	cP	14 48 15.7	−0.5			
			cS	14 53 12.0	0.5			
			LN	Ms=5.1		18.0	2.50	
TIY	31.2	338	cP	14 48 22.9	−0.9			
			S	14 53 30.0	6.1			
BJI	32.2	345	cP	14 48 32.0	−0.1			
			cpP	14 48 44.0	−0.9			
			cS	14 53 43.5	3.6			
SNY	32.7	356	+iP	14 48 37.2	0.4			

			PMZ			3.0	0.65
			cpP	14 48 47.0	−2.7		
			S	14 53 51.0	3.6		
			SMN	m_B = 5.4		4.0	0.22
			SME			4.0	0.28
			LN	Ms = 4.9		19.0	1.14
			LE			19.0	0.83
LZH	33.9	326	eP	14 48 44.5	−2.7		
HHC	34.3	340	−P	14 48 49.2	−1.5		
CN2	34.6	359	+P	14 48 52.4	−0.6		
			pP	14 49 03.5	−2.5		
			eS	14 54 16.0	−1.5		
			LZ	Ms = 4.9		17.0	1.10
BTO	34.7	338	eP	14 48 50.8	−2.8		
			epP	14 49 03.0	−3.5		
			eS	14 54 14.0	−4.5		
			LN	Ms = 4.7		14.0	0.30
			LE			14.0	0.60
MDJ	35.5	4	+P	14 49 01.5	0.8		
			pP	14 49 12.8	−0.9		
			PP	14 50 23.5	2.7		
			eS	14 54 35.0	3.6		
			LZ	Ms = 4.6		20.0	0.66
GTA	38.5	326	P	14 49 25.5	−0.6		
			LE	Ms = 4.8		15.0	0.76
			LZ	Ms = 4.5		20.0	0.52
LSA	39.0	307	−P	14 49 29.8	−0.1		
WMQ	48.3	323	P	14 50 46.0	0.7		
KSH	54.2	313	eP	14 51 30.8	1.1		

1986 5 28
O = 15 06 39.1 ± 0.25s
LAT = 27.61 N ± 2.80km
LONG = 141.03 E ± 3.83km
DEPTH = 33 km ± 0.12km
STATIONS USED = 35, STAND DEV = 2.74s
Ms = 4.3 / 4,

NJ2	19.7	288	+P	15 11 08.0	−1.0		
SNY	20.1	319	eP	15 11 16.8	3.7		
TIA	22.0	299	+P	15 11 30.0	−2.3		
			S	15 15 35.0	7.5		
			LE	Ms = 4.4		11.0	0.53
WHN	23.5	284	eP	15 11 45.0	−1.9		
			S	15 15 56.0	1.7		
			LN	Ms = 4.2		11.0	0.30
BJI	24.0	307	eP	15 11 50.0	−1.9		
TIY	26.0	300	−P	15 12 17.0	5.8		
HHC	27.6	306	eP	15 12 23.0	−2.6		
BTO	28.6	305	eP	15 12 27.4	−7.5		
GYA	30.6	276	P	15 12 51.0	−1.5		
LZH	32.5	294	eP	15 13 08.5	−1.3		
			pP	15 13 15.0	−3.8		
CD2	32.6	285	eP	15 13 11.4	1.3		
			eS	15 18 30.4	7.7		
WMQ	45.4	305	P	15 14 55.5	−1.8		

1986 5 28
O = 15 51 51.0 ± 0.08s
LAT = 6.30 S ± 0.87km
LONG = 149.07 E ± 0.84km
DEPTH = 65 km ± 0.91km
STATIONS USED = 19, STAND DEV = 1.52s

XAN	55.2	319	eP	16 01 17.0	−3.3		

1986 5 28
O = 17 59 23.0 ± 0.06s
LAT = 9.43 N ± 0.85km
LONG = 126.86 E ± 1.03km
DEPTH = 40 km ± 0.54km
STATIONS USED = 7, STAND DEV = 1.92s

NJ2	23.7	343	eP	18 04 34.4	2.0		
BJI	31.9	344	eP	18 05 47.0	−0.6		

1986 5 28
O = 18 54 29.5 ± 0.06s
LAT = 6.57 S ± 1.02km
LONG = 155.90 E ± 1.56km
DEPTH = 177 km ± 0.75km
STATIONS USED = 71, STAND DEV = 0.88s

QZH	47.9	312	+P	19 02 53.5	1.0		
SSE	50.0	320	−P	19 03 09.3	0.8		
			PMZ			1.4	0.10
			eS	19 10 07.0	2.2		
			sS	19 11 18.0	4.6		
GZH	51.0	307	eP	19 03 16.6	1.1		
QZN	52.0	300	eP	19 03 24.2	0.9		
NJ2	52.2	320	+P	19 03 25.4	1.0		
			sP	19 04 20.0	−3.6		
			S	19 10 38.0	5.2		
DL2	55.3	328	eP	19 03 47.5	0.3		
TIA	56.0	322	−P	19 03 51.3	−0.9		
MDJ	56.2	338	eP	19 03 53.2	−0.5		
SNY	56.5	331	+P	19 03 55.6	−0.2		
CN2	57.2	334	+P	19 04 00.6	−0.2		
			pP	19 04 42.0	1.1		
			S	19 11 41.0	1.2		
GYA	57.9	307	P	19 04 06.0	0.1		
			pP	19 04 47.0	0.9		
			S	19 11 50.0	0.8		
BJI	59.1	325	eP	19 04 13.0	−0.9		

TIY	59.8	321	P	19 04 18.9	−0.2	
XAN	60.0	316	P	19 04 19.0	−1.5	
			pP	19 05 02.0	1.1	
KMI	60.5	304	eP	19 04 23.5	−0.5	
CD2	62.2	310	eP	19 04 35.4	0.2	
HHC	62.3	323	+iP	19 04 35.0	−0.7	
BTO	63.1	322	+P	19 04 40.5	−0.3	
LZH	64.6	315	eP	19 04 51.5	0.3	
GTA	69.0	316	−P	19 05 19.2	0.4	
LSA	71.8	304	P	19 05 35.0	−0.6	
WMQ	79.1	317	P	19 06 17.0	0.2	
KSH	86.4	310	−iP	19 06 55.8	1.8	
			pP	19 07 38.8	1.8	
			eS	19 17 19.8	6.1	

1986 5 28

O = 22 04 20.2 ± 0.12s
LAT = 44.41 N ± 2.29km
LONG = 149.74 E ± 1.56km
DEPTH = 34 km ± 0.14km
STATIONS USED = 27, STAND DEV = 1.18s

CN2	17.4	277	−P	22 08 23.0	0.2		
BJI	25.1	272	eP	22 09 44.0	0.0		
HHC	28.1	276	P	22 10 11.4	−0.5		
BTO	29.3	277	eP	22 10 26.5	4.0		
XAN	33.0	266	eP	22 10 53.6	−0.9		
LZH	35.6	273	eP	22 11 17.0	−0.3		
GTA	37.0	280	+iP	22 11 29.0	−0.2		
GYA	38.9	257	P	22 11 45.0	0.2		

1986 5 29

O = 02 50 38.1 ± 0.13s
LAT = 28.47 N ± 1.16km
LONG = 103.80 E ± 1.16km
DEPTH = 7 km ± 0.29km
STATIONS USED = 16, STAND DEV = 4.84s
M_L = 3.8 / 11,

CD2	2.4	359	Pn	02 51 18.2	−0.5		
			Pg	02 51 19.7	−1.4		
			Sn	02 51 48.2	−2.4		
			Sg	02 51 50.0	−4.4		
			SMN	M_L = 3.8		0.4	0.60
			SME			0.4	0.60
GYA	3.2	128	Pg	02 51 34.0	−1.5		
			Sg	02 52 25.6	6.0		
			SMN	M_L = 3.8		1.2	0.34
			SME			1.2	0.25
XAN	7.1	37	Pn	02 52 23.0	0.5		
			Pg	02 52 46.5	3.5		
			Sn	02 53 38.0	−7.5		
			Sg	02 54 16.0	−3.7		
			SMN	M_L = 4.3		1.2	0.17
			SME			1.0	0.080
LZH	7.6	0	ePg	02 53 00.5	8.0		

1986 5 29

O = 09 22 13.0 ± 0.13s
LAT = 50.82 N ± 3.23km
LONG = 157.90 E ± 1.75km
DEPTH = 33 km ± 0.17km
STATIONS USED = 16, STAND DEV = 1.79s

CN2	23.0	265	eP	09 27 15.4	−0.4
KMI	49.1	260	eP	09 31 00.0	0.1

1986 5 29

O = 11 06 43.0 ± 0.06s
LAT = 28.63 N ± 0.61km
LONG = 103.79 E ± 0.69km
DEPTH = 5 km ± 0.07km
STATIONS USED = 13, STAND DEV = 3.23s
M_L = 3.3 / 11,

CD2	2.3	359	Pg	11 07 23.7	0.4		
			Sn	11 07 54.0	2.1		
			Sg	11 07 56.3	2.0		
			SMN	M_L = 3.4		0.7	0.20
			SME			0.6	0.30
GYA	3.3	130	Pg	11 07 39.4	−2.9		
			Sg	11 08 35.6	7.8		
			SMN	M_L = 2.6		1.2	0.020
			SME			1.2	0.020
KMI	3.6	195	eP *	11 07 43.0	−1.7		
XAN	7.0	38	Pn	11 08 28.4	2.5		
			Pg	11 08 54.4	8.7		
			Sn	11 09 43.6	−4.2		
			Sg	11 10 28.7	7.9		
			SMN	M_L = 4.0		1.2	0.070
			SME			1.4	0.060

1986 5 29

O = 11 30 54.8 ± 0.15s
LAT = 28.53 N ± 2.76km
LONG = 140.84 E ± 3.01km
DEPTH = 36 km ± 0.83km
STATIONS USED = 46, STAND DEV = 2.99s
Ms = 4.6 / 10, m_B = 5.6 / 16

MDJ	18.4	334	+P	11 35 10.5	1.5		
DL2	19.0	308	eP	11 35 15.3	−1.2		
			PMZ	m_B = 5.5		5.0	1.09
			sS	11 38 54.5	−1.8		
			SMN	m_B = 5.6		6.0	0.66

			SME			7.0	1.69
NJ2	19.3	286	+P	11 35 23.0	3.2		
			PMZ	m_B = 5.8		5.0	2.20
			sS	11 39 09.0	6.0		
			LE	Ms = 4.6		11.0	1.00
SNY	19.3	318	−P	11 35 20.0	0.0		
			S	11 38 54.0	4.1		
			LN	Ms = 4.5		12.0	0.60
			LE			12.0	0.72
CN2	19.6	325	−P	11 35 22.0	−1.2		
			eS	11 38 58.0	0.6		
			LZ	Ms = 4.5		12.0	0.80
QZH	20.2	265	eP	11 35 30.0	0.6		
			pP	11 35 39.0	0.7		
			PP	11 35 50.0	0.9		
			eS	11 39 16.0	6.7		
			sS	11 39 23.0	0.8		
TIA	21.4	297	eP	11 35 39.8	−2.2		
			pP	11 35 44.0	−7.2		
			eS	11 39 35.0	2.3		
			sS	11 39 44.0	−3.5		
			LE	Ms = 4.6		11.0	0.93
WHN	23.1	281	eP	11 36 00.7	1.8		
			PMZ	m_B = 5.7		5.0	1.58
			PP	11 36 32.0	2.9		
			S	11 40 11.0	7.9		
			SMN	m_B = 5.7		6.0	1.26
BJI	23.3	306	eP	11 36 03.0	2.2		
			PMZ	m_B = 5.4		5.0	0.76
			eS	11 40 16.0	8.7		
			SMN	m_B = 5.5		6.0	0.82
			SME			8.0	0.58
GZH	25.3	264	eP	11 36 22.0	1.9		
			sS	11 40 55.0	−2.0		
			SME	m_B = 5.2		7.0	0.48
TIY	25.4	298	eP	11 36 21.8	0.6		
			PMZ	m_B = 6.0		4.5	1.63
			PP	11 37 03.0	3.1		
			S	11 40 51.0	8.6		
			LN	Ms = 4.5		12.0	0.42
			LE			12.0	0.36
HHC	26.9	305	P	11 36 33.0	−2.0		
			PMZ	m_B = 5.6		5.0	0.75
			S	11 41 12.0	5.3		
			sS	11 41 29.0	5.6		
			LE	Ms = 4.5		9.0	0.37
XAN	27.8	289	eP	11 36 39.0	−3.8		
			S	11 41 28.0	7.4		
BTO	27.9	304	−P	11 36 46.0	1.4		
			eS	11 41 31.0	6.3		
QZN	29.8	258	eP	11 36 57.2	−4.0		
			eS	11 41 52.5	−2.0		
GYA	30.3	274	eP	11 37 04.6	−1.2		
CD2	32.2	283	eP	11 37 20.8	−1.4		
			LE	Ms = 5.1		7.0	0.80
GTA	35.4	299	eP	11 37 50.0	−0.3		
			ePP	11 39 12.0	1.9		
			PMZ	m_B = 5.6		5.0	0.57
			eS	11 43 22.0	−0.4		
			SME	m_B = 5.1		6.0	0.25
WMQ	44.8	305	eP	11 39 06.5	−1.0		
			PMZ			3.0	0.24
			PP	11 41 00.0	7.1		
			eS	11 45 42.0	0.1		
KSH	53.8	300	eP	11 40 18.0	0.8		
			eS	11 47 53.0	4.6		

1986 5 29

O = 11 49 29.9 ± 0.40s
LAT = 50.11 N ± 4.21km
LONG = 29.16 W ± 1.53km
DEPTH = 7 km ± 1.51km
STATIONS USED = 23, STAND DEV = 1.25s

KSH	69.3	53	eP	12 00 42.9	2.3
WMQ	71.5	43	eP	12 00 54.5	0.4
GTA	80.2	38	eP	12 01 43.6	−0.1
BTO	82.8	30	eP	12 01 57.6	0.3
BJI	85.2	26	eP	12 02 09.0	−0.2

1986 5 29

O = 15 21 34.9 ± 0.13s
LAT = 30.18 N ± 1.77km
LONG = 138.74 E ± 2.36km
DEPTH = 423 km ± 1.08km
STATIONS USED = 25, STAND DEV = 1.97s

DL2	16.5	306	eP	15 25 03.9	−0.5
NJ2	17.1	281	+P	15 25 10.0	−0.3
CN2	17.2	326	eP	15 25 08.0	−3.2
BJI	20.9	304	eP	15 25 47.0	0.2
TIY	23.0	296	eP	15 26 07.0	−0.1
XAN	25.5	286	−iP	15 26 28.6	−0.8
GYA	28.4	270	+P	15 26 55.0	−0.3
LZH	29.7	291	−P	15 27 05.5	−1.0
CD2	30.1	280	−iP	15 27 09.2	−0.3
			PMZ		0.5 0.070

1986 5 29

O = 18 42 06.7 ± 0.07s
LAT = 34.68 N ± 1.48km
LONG = 137.18 E ± 1.24km

DEPTH = 311 km ± 0.94km
STATIONS USED = 57, STAND DEV = 1.49s

MDJ	11.5	332	+P	18 44 45.5	1.0	
SNY	12.8	308	−iP	18 45 02.3	1.6	
CN2	12.9	319	−iP	18 45 01.0	0.1	
DL2	13.2	293	+P	18 45 15.0	10.9	
SSE	13.9	260	eP	18 45 13.7	0.4	
NJ2	15.5	265	eP	18 45 31.5	−0.4	
TIA	16.4	281	eP	18 45 40.0	−1.4	
BJI	17.5	294	eP	18 45 51.0	−1.8	
WHN	19.7	264	P	18 46 15.0	0.7	
TIY	20.2	286	eP	18 46 21.5	1.9	
BTO	22.3	293	eP	18 46 40.0	0.3	
			eS	18 50 17.0	−2.9	
XAN	23.3	277	−iP	18 46 49.4	−0.1	
LZH	27.1	283	eP	18 47 23.5	−1.1	
GYA	27.4	261	−P	18 47 26.6	−0.6	
CD2	28.3	272	−iP	18 47 34.0	−0.5	
			PMZ		0.5	0.10
GTA	30.1	290	P	18 47 49.8	−0.4	
WMQ	38.9	299	P	18 49 06.0	1.1	

1986 5 29
O = 19 18 42.8 ± 0.07s
LAT = 51.55 N ± 3.45km
LONG = 175.27 W ± 1.58km
DEPTH = 36 km ± 0.83km
STATIONS USED = 49, STAND DEV = 1.34s

SNY	41.9	282	−iP	19 26 33.2	1.2	
DL2	44.9	279	P	19 26 56.0	0.2	
BJI	47.5	284	eP	19 27 17.0	0.3	
SSE	50.2	272	eP	19 27 38.6	0.9	
			PMZ		1.0	0.027
BTO	50.8	289	eP	19 27 43.0	0.4	
TIY	51.2	284	eP	19 27 45.9	0.4	
WHN	54.8	276	P	19 28 11.5	−0.8	
XAN	55.8	283	eP	19 28 18.6	−0.6	
LZH	57.4	288	eP	19 28 30.0	−1.2	
GTA	57.5	294	eP	19 28 30.0	−1.9	
WMQ	61.1	305	eP	19 28 54.1	−2.2	
CD2	61.1	284	eP	19 28 56.2	−0.1	
GYA	62.5	279	+P	19 29 05.4	−0.4	
KMI	65.9	280	+P	19 29 28.0	0.0	
LSA	69.4	292	P	19 29 50.4	−0.2	

1986 5 29
O = 20 00 31.6 ± 0.08s
LAT = 36.31 N ± 1.71km
LONG = 70.69 E ± 1.37km
DEPTH = 119 km ± 0.65km
STATIONS USED = 31, STAND DEV = 2.71s
M_L = 4.5 / 1,

KSH	5.2	52	−P	20 01 50.7	1.6	
			S	20 02 48.7	0.3	
WMQ	15.0	55	P	20 03 58.0	−0.9	
			S	20 06 36.0	−5.8	
			SMN		2.0	0.068
LSA	18.4	105	P	20 04 39.8	−0.3	
GTA	23.2	73	+P	20 05 30.2	1.7	
GYA	32.1	98	P	20 06 51.8	1.9	
NJ2	39.7	82	eP	20 07 55.5	1.1	

1986 5 29
O = 22 26 46.8 ± 0.12s
LAT = 15.03 S ± 3.08km
LONG = 67.34 E ± 2.71km
DEPTH = 12 km ± 0.29km
STATIONS USED = 23, STAND DEV = 1.72s

GYA	56.2	43	P	22 36 31.0	1.1
CD2	57.6	37	eP	22 36 39.2	−0.1
WMQ	61.5	17	P	22 37 05.5	−0.7
GTA	62.1	28	P	22 37 10.9	0.5
XAN	62.8	38	eP	22 37 14.8	−0.6
TIY	67.4	37	eP	22 37 46.0	0.9
NJ2	68.0	46	−P	22 37 50.0	1.3
BJI	71.1	38	eP	22 38 09.0	1.0
MDJ	81.9	40	eP	22 39 10.1	1.6

1986 5 30
O = 00 52 11.3 ± 0.19s
LAT = 51.29 N ± 2.85km
LONG = 175.47 W ± 1.60km
DEPTH = 30 km ± 1.90km
STATIONS USED = 28, STAND DEV = 2.02s

DL2	44.8	279	eP	01 00 26.0	1.6
BJI	47.4	284	eP	01 00 46.0	0.6
TIA	49.2	280	eP	01 01 00.0	0.4
HHC	49.7	288	eP	01 01 02.0	−1.3
BTO	50.8	289	eP	01 01 11.2	−0.3
TIY	51.2	284	eP	01 01 15.5	1.2
XAN	55.7	283	eP	01 01 42.0	−6.0
LZH	57.4	288	eP	01 02 00.5	0.3
GYA	62.4	279	eP	01 02 35.4	1.0

1986 5 30
O = 01 24 40.9 ± 0.13s
LAT = 0.78 S ± 3.68km
LONG = 86.50 E ± 2.36km
DEPTH = 7 km ± 0.99km
STATIONS USED = 36, STAND DEV = 2.50s

LSA	30.6	8	P	01 31 00.0	1.1	
GYA	33.3	34	eP	01 31 23.0	0.8	
CD2	35.5	26	eP	01 31 41.1	0.1	
LZH	40.1	22	eP	01 32 19.0	−0.3	
WHN	40.9	38	eP	01 32 26.0	0.2	
WMQ	44.4	1	−iP	01 32 54.5	−0.2	
BTO	46.4	25	P	01 33 10.4	−0.3	
BJI	48.8	30	eP	01 33 29.5	0.1	
DL2	51.0	35	eP	01 33 45.0	−0.8	
CN2	56.4	33	eP	01 34 28.0	2.3	

1986 5 30
O=04 15 11.7 ± 0.11s
LAT=43.41 N ± 1.71km
LONG= 87.98 E ± 1.09km
DEPTH= 30 km ± 0.35km
STATIONS USED = 25, STAND DEV= 2.52s
M_L=4.1/ 6,

WMQ	0.5	333	−iPn	04 15 24.3	1.4		
			Sn	04 15 31.0	−0.3		
			SME	M_L=4.1		1.0	10.5
GTA	9.7	110	eP	04 17 31.0	−2.3		
			S	04 19 15.0	−7.4		
			LG_1	04 20 14.7	−3.1		
			LE			1.0	0.25
KSH	9.8	250	cPg	04 18 08.8	3.0		
			LG_1	04 20 19.0	−1.8		
			LG_2	04 20 40.0	3.6		
LZH	14.2	116	eP	04 18 32.0	−1.5		
XAN	18.8	113	eP	04 19 29.6	−1.8		
TIY	19.4	99	eP	04 19 36.6	−1.9		
BJI	21.3	89	eP	04 19 59.0	0.9		
WHN	24.6	113	eP	04 20 30.5	0.1		

1986 5 30
O=08 02 40.8 ± 0.27s
LAT=10.92 S ± 3.94km
LONG=162.68 E ± 5.37km
DEPTH= 63 km ± 1.26km
STATIONS USED = 56, STAND DEV= 3.36s
Ms=5.2/ 10,

SSE	57.7	318	eP	08 12 29.0	1.1		
			eS	08 20 27.0	7.2		
			csS	08 20 40.0	−6.6		
			LN	Ms=5.3		19.0	1.60
NJ2	59.8	317	+P	08 12 49.2	6.4		
			LZ	Ms=4.7		18.0	0.30
QZN	60.0	299	eP	08 12 49.0	5.2		
DL2	62.6	325	eP	08 13 07.0	5.6		
MDJ	62.9	334	eP	08 13 00.7	−2.6		
			S	08 21 30.0	5.1		
			sS	08 21 48.0	−5.2		
			LE	Ms=5.2		25.0	1.42
TIA	63.5	320	eP	08 13 11.6	3.9		
SNY	63.6	328	+P	08 13 04.5	−3.5		
			S	08 21 35.3	1.3		
			LN	Ms=5.4		29.0	1.95
			LE			29.0	1.48
CN2	64.1	331	+P	08 13 09.4	−2.1		
			cS	08 21 44.0	2.2		
			sS	08 22 00.0	−8.9		
			LZ	Ms=5.2		20.0	1.00
GYA	65.9	305	P	08 13 22.0	−0.9		
TIY	67.5	319	eP	08 13 39.0	6.2		
			cS	08 22 32.0	9.6		
			SS	08 26 39.0	−4.8		
			LE	Ms=5.1		17.0	0.62
XAN	67.8	314	eP	08 13 32.6	−2.6		
KMI	68.5	303	eP	08 13 34.0	−5.5		
HHC	69.8	321	P	08 13 45.0	−2.5		
CD2	70.2	309	eP	08 13 49.8	0.4		
			cS	08 22 51.0	−3.4		
			LZ	Ms=5.3		30.0	1.70
BTO	70.6	320	eP	08 13 56.0	3.5		
			pP	08 14 05.0	−3.1		
			cPP	08 16 35.0	4.8		
			cS	08 23 09.0	8.8		
LZH	72.5	313	eP	08 14 04.5	1.1		
GTA	76.8	315	eP	08 14 27.4	−1.2		
			cS	08 24 07.0	−2.9		
			LZ	Ms=5.2		21.0	0.77

1986 5 30
O=08 47 38.6 ± 0.06s
LAT=71.66 N ± 0.92km
LONG= 2.34 W ± 1.00km
DEPTH= 9 km ± 0.14km
STATIONS USED = 17, STAND DEV= 1.21s

WMQ	49.1	73	P	08 56 31.2	1.9
GTA	56.8	65	eP	08 57 26.0	−0.1
CN2	59.1	42	−P	08 57 41.8	−0.5
GYA	70.9	64	P	08 58 59.4	0.6

1986 5 30
O=12 44 42.1 ± 0.17s
LAT=24.13 N ± 2.11km
LONG=121.53 E ± 2.20km
DEPTH= 30 km ± 0.71km
STATIONS USED = 29, STAND DEV= 2.52s
Ms=4.4/ 10, M_L=3.9/ 4,

QZH	2.8	287	cPn	12 45 25.5	0.2		
			Sn	12 46 00.4	0.8		
			SMN	M_L = 4.1		1.2	1.02
			SME			1.2	0.59
SSE	6.9	358	cPn	12 46 22.6	0.3		
			cLG_1	12 48 19.0	−1.1		
			cLG_2	12 48 33.5	2.4		
			LN			1.2	0.052
			LE			1.2	0.078
GZH	7.6	264	cPn	12 46 33.0	1.9		
			cSn	12 47 53.1	−5.0		
			LN			1.0	0.12
			LE			0.8	0.060
NJ2	8.2	344	cP	12 46 39.5	−3.0		
			S	12 48 12.5	−2.8		
			LN	Ms = 4.4		9.0	2.10
WHN	9.0	317	P	12 46 51.0	−2.5		
			S	12 48 31.0	−4.1		
			LG_1	12 49 30.0	4.4		
			LN	Ms = 4.4		9.0	1.34
			LE			9.0	1.41
QZN	12.0	247	eP	12 47 35.5	1.2		
			eS	12 49 50.0	1.8		
GYA	13.6	283	P	12 48 07.2	11.3		
			sS	12 50 45.0	6.5		
			LE	Ms = 4.5		10.0	1.30
XAN	14.8	315	eP	12 48 10.8	−0.4		
			LG_1	12 52 33.0	6.6		
			LG_2	12 52 52.0	2.1		
			LE	Ms = 4.4		10.0	0.84
TIY	15.6	332	cP	12 48 25.8	3.8		
			LG_2	12 53 23.0	5.8		
			LN	Ms = 4.4		10.0	0.76
			LE			11.0	0.49
BJI	16.5	345	(P)	12 48 50.0	17.3		
CD2	17.1	297	cP	12 48 43.3	2.0		
			LG_2	12 54 05.5	−2.1		
			LE	Ms = 4.8		6.0	1.00
LZH	19.4	312	cP	12 49 12.5	4.0		
GTA	23.8	315	cP	12 49 53.4	−0.7		
			LE	Ms = 4.4		11.0	0.48
			LZ	Ms = 4.5		12.0	0.62

1986 5 30

O = 18 33 30.2 ± 0.27s
LAT = 6.05 S ± 2.97km
LONG = 122.70 E ± 2.39km
DEPTH = 54 km ± 0.77km
STATIONS USED = 54, STAND DEV = 1.83s
Ms = 4.6 / 5, m_B = 5.7 / 2

QZN	28.0	333	eP	18 39 18.0	−0.1		
			eS	18 43 54.0	−2.2		
			LN	Ms = 4.3		11.0	0.30
GZH	30.4	343	eP	18 39 38.0	−1.5		
GYA	35.9	335	−P	18 40 28.2	0.9		
KMI	36.6	329	eP	18 40 34.5	1.1		
WHN	37.3	348	eP	18 40 39.5	0.7		
			PMZ	m_B = 5.8		4.0	0.65
			eS	18 46 27.0	5.6		
			LE	Ms = 4.6		12.0	0.37
NJ2	38.1	355	−P	18 40 47.0	1.4		
			S	18 46 35.0	2.2		
CD2	41.0	335	eP	18 41 10.0	0.1		
			eS	18 47 19.9	2.2		
TIY	44.6	348	eP	18 41 38.9	−0.3		
			S	18 48 17.0	7.8		
			LN	Ms = 4.5		14.0	0.28
DL2	44.7	359	eP	18 41 40.2	−0.2		
BJI	46.3	353	eP	18 41 52.0	−0.5		
			PMZ	m_B = 5.5		6.0	0.43
			eS	18 48 34.0	−0.2		
LSA	46.7	321	+P	18 41 52.8	−3.7		
SNY	47.6	1	+P	18 42 01.5	−1.9		
			eS	18 48 49.0	−5.0		
			LE	Ms = 4.6		30.0	0.65
BTO	47.9	347	eP	18 42 05.0	−0.2		
			eS	18 48 57.0	−0.3		
CN2	49.7	3	eP	18 42 16.0	−3.2		
GTA	49.9	337	P	18 42 21.5	0.2		
			eS	18 49 28.5	2.2		
			i	18 53 18.0			
			LN	Ms = 4.6		12.0	0.22
MDJ	50.8	6	eP	18 42 26.5	−1.3		
WMQ	58.8	331	P	18 43 27.0	0.7		
KSH	62.5	321	+P	18 43 52.0	0.7		

1986 5 31

O = 03 40 06.5 ± 0.07s
LAT = 43.38 N ± 1.73km
LONG = 145.58 E ± 1.17km
DEPTH = 77 km ± 0.63km
STATIONS USED = 74, STAND DEV = 1.29s
Ms = 4.6 / 24, m_B = 5.6 / 8

MDJ	11.6	282	eP	03 42 52.0	1.1		
			S	03 45 00.0	1.1		
			SS	03 45 18.0	3.4		
			LN	Ms = 4.1		10.0	0.70
CN2	14.6	279	P	03 43 29.5	−1.0		
			pP	03 43 39.0	−4.9		
			eS	03 46 10.0	−1.0		

			LN	Ms=4.4	11.0	1.10
SNY	16.3	272	+P	03 43 52.6	0.8		
			sP	03 44 12.0	−3.3		
			cS	03 46 53.5	4.0		
			sS	03 47 16.0	4.6		
			ScS	03 55 46.0	−0.2		
			LN	Ms=4.4	10.0	0.66
			LE		10.0	0.40
DL2	18.6	264	P	03 44 19.0	−0.8		
			PP	03 44 35.0	−2.9		
			S	03 47 40.0	−0.5		
			sS	03 47 57.0	−8.8		
			LN	Ms=4.4	12.0	0.67
BJI	22.2	271	cP	03 44 57.0	−0.3		
			cpP	03 45 14.0	−0.1		
			cS	03 48 50.0	−1.6		
			SMN	m_B=5.8	8.0	1.36
			SME		6.0	0.82
			csS	03 49 16.0	−4.0		
			cSS	03 49 32.0	−3.6		
			cScS	03 56 05.0	−0.2		
SSE	22.9	246	P	03 45 05.5	1.2		
			PMZ		1.5	0.87
			csP	03 45 31.0	0.0		
			S	03 49 10.0	6.3		
			sS	03 49 36.0	2.7		
			cSS	03 49 55.0	2.3		
			LN	Ms=4.2	14.0	0.35
TIA	22.9	261	−P	03 45 04.7	−0.2		
			cpP	03 45 22.0	0.1		
			cS	03 49 02.0	−3.5		
			SMN	m_B=5.5	6.0	0.61
			SME		6.0	0.42
NJ2	23.9	251	−P	03 45 14.0	0.0		
			PP	03 45 52.0	1.5		
			S	03 49 24.0	3.0		
			LN	Ms=4.5	11.0	0.60
HHC	25.3	276	P	03 45 27.0	−0.5		
			pP	03 45 44.0	−0.5		
			S	03 49 44.5	0.1		
			LN	Ms=4.7	10.0	0.44
			LE		10.0	0.58
TIY	25.7	269	cP	03 45 31.5	−0.1		
			pP	03 45 53.5	4.7		
			S	03 49 57.0	5.2		
			SMN	m_B=5.7	8.0	1.24
			SME		7.0	1.18
			LN	Ms=4.4	10.0	0.24
			LE		10.0	0.31
BTO	26.5	276	P	03 45 38.0	−0.6		
			pP	03 45 57.0	1.2		
			PP	03 46 25.0	0.7		
			S	03 50 06.0	1.9		
			LN	Ms=4.6	13.0	0.50
			LE		13.0	0.40
			LZ	Ms=4.7	13.0	0.80
WHN	27.9	253	−P	03 45 50.5	−0.9		
			pP	03 46 12.0	3.1		
			S	03 50 25.0	−2.2		
			SMN	m_B=5.1	9.0	0.54
			LN	Ms=4.7	13.0	0.76
XAN	29.9	264	+P	03 46 08.6	−0.8		
			pP	03 46 28.0	1.0		
			sP	03 46 37.0	0.4		
			S	03 50 58.5	−0.6		
			SS	03 52 38.0	−2.2		
			ScS	03 56 38.0	0.1		
GZH	33.4	243	−P	03 46 40.7	0.5		
			S	03 51 58.0	3.9		
GTA	34.2	279	P	03 46 47.2	−0.2		
			PcP	03 49 22.6	0.7		
			cS	03 52 07.0	−1.1		
			sS	03 52 41.5	2.7		
			ScS	03 57 06.0	6.2		
			LE	Ms=4.8	15.0	0.85
			LZ	Ms=4.8	14.0	0.75
CD2	35.2	263	−iP	03 46 55.6	−0.2		
			pP	03 47 15.5	1.6		
			sP	03 47 27.0	3.7		
			PP	03 48 12.0	−3.8		
			iS	03 52 16.0	−7.3		
			LN	Ms=4.9	15.0	1.06
GYA	35.7	255	−P	03 46 59.4	−0.7		
			pP	03 47 20.2	2.1		
			PcP	03 49 26.4	0.1		
			S	03 52 26.0	−3.9		
			SS	03 54 48.0	−6.8		
			ScS	03 57 07.0	−0.8		
QZN	38.6	242	cP	03 47 25.4	1.5		
			cS	03 53 17.0	2.6		
			LN	Ms=4.9	13.0	0.50
			LE		14.0	0.60
KMI	39.3	257	−P	03 47 30.0	−0.3		
			pP	03 47 51.0	2.7		
			S	03 53 24.0	−0.6		
			SMN	m_B=5.5	5.0	0.40
			SME		5.0	0.30
WMQ	41.2	291	P	03 47 46.0	0.6		
			S	03 53 51.0	−1.1		
			ScS	03 57 40.0	0.9		

			LE		Ms=5.1	13.0	1.03
KSH	51.0	291	P	03 49 03.0		0.1	
			iS	03 56 15.0		2.0	
			ScS	03 58 47.0		5.1	
			LN		Ms=5.1	10.0	0.60

1986 5 31
O=07 28 49.7 ± 0.12s
LAT=10.53 N ± 0.82km
LONG=126.02 E ± 1.72km
DEPTH= 67 km ± 1.39km
STATIONS USED = 25, STAND DEV= 1.32s

SSE	20.9	348	cP	07 33 29.6	0.2
NJ2	22.4	344	−P	07 33 46.8	2.8
GYA	24.2	314	P	07 34 12.6	11.8
KMI	26.4	306	cP	07 34 19.3	−3.1
TIA	26.8	344	cP	07 34 25.4	−0.5
XAN	28.2	329	cP	07 34 37.4	−0.8
BJI	30.7	345	cP	07 35 00.0	−0.4
SNY	31.2	356	cP	07 35 05.3	−0.3
GTA	37.0	325	cP	07 35 55.2	−0.2
WMQ	46.9	322	P	07 37 16.1	0.5

1986 5 31
O=16 30 46.6 ± 0.15s
LAT= 7.87 S ± 2.89km
LONG=151.10 E ± 3.24km
DEPTH= 34 km ± 0.78km
STATIONS USED = 44, STAND DEV= 1.20s

TIA	54.2	326	cP	16 40 10.8	−1.2
GYA	55.0	310	P	16 40 18.0	0.5
CN2	56.4	338	cP	16 40 16.6	−10.6
KMI	57.4	306	cP	16 40 35.5	0.7
BJI	57.6	329	cP	16 40 35.0	−0.8
XAN	57.7	319	−P	16 40 36.8	−0.3
TIY	58.0	324	cP	16 40 37.4	−1.3
HHC	60.6	326	cP	16 40 51.0	−6.0
BTO	61.3	325	cP	16 41 02.0	0.3
LZH	62.3	318	−P	16 41 09.5	0.9
GTA	66.8	319	P	16 41 38.5	0.8
WMQ	76.9	318	cP	16 42 38.5	0.6

1986 5 31
O=22 13 04.4 ± 0.18s
LAT=18.49 S ± 1.08km
LONG=177.61 W ± 1.33km
DEPTH=557 km ± 1.90km
STATIONS USED = 30, STAND DEV= 1.30s

NJ2	78.9	309	+P	22 24 13.0	0.8
GZH	79.1	299	cP	22 24 14.0	0.9
MDJ	79.1	325	cP	22 24 11.5	−1.8
CN2	80.9	322	PS	22 24 23.5	−1.0
BJI	84.7	315	cP	22 24 41.5	−0.3
GYA	86.0	299	P	22 24 48.6	0.6
TIY	86.2	312	cP	22 24 49.5	0.4
XAN	87.2	307	−P	22 24 54.2	0.5
GTA	96.0	309	cP	22 25 32.0	−2.1

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