STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 12 1							
O=02 27 41.6			+/- 0.08 SEC				
LAT=36.60 N			+/- 1.18 KM				
LONG=71.17 E			+/- 0.99 KM				
DEPTH=232 KM			+/- 0.49 KM				
mb(NEIS)=4.5							
STATIONS USED=29, STAND DEV=1.32 SEC							
WMQ	14.5	55	P	02 30 57.5	- 0.7		
			ES	02 33 35.7	1.9		
			S=E			1.2	0.03
GTA	22.7	74	IPD	02 32 27.2	2.4		
CD2	27.6	92	EP	02 33 11.3	1.4		
KMI	29.3	104	P	02 33 21.8	- 3.3		
XAN	30.8	83	EP	02 33 37.8	- 0.2		
GYA	31.7	98	PC	02 33 47.0	0.5		
CN2	41.4	62	EP	02 35 03.7	- 3.9		
1984 12 1							
O=07 12 47.2			+/- 0.14 SEC				
LAT=38.13 N			+/- 1.49 KM				
LONG=106.50 E			+/- 1.55 KM				
DEPTH=1 KM			+/- 0.22 KM				
ML(CHINA)=3.6/12							
STATIONS USED=5, STAND DEV=2.88 SEC							
LZH	2.9	226	EPG	07 13 38.5	- 2.3		
			SG	07 14 09.5	- 9.8		
			S=N	ML=3.6		1.0	0.3
			S=E			1.0	0.2
BTO	3.7	46	EPN	07 13 46.7	0.1		
			PG	07 13 56.2	2.0		
			SG	07 14 45.0	2.6		
			S=N	ML=3.2		0.4	0.05
			S=E			0.4	0.06
XAN	4.5	153	EPN	07 13 57.2	- 1.4		
			PG	07 14 10.2	0.5		
			PG	07 15 06.1	- 2.9		
			S=N	ML=3.0		0.5	0.03
			S=E			0.8	0.02
TIY	4.7	93	PG	07 14 13.4	0.3		
			SG	07 15 13.2	- 1.6		
			S=N	ML=3.9		0.4	0.2
			S=E			0.5	0.2
HHC	4.8	53	PG	07 14 16.1	2.0		
			SG	07 15 19.0	2.4		
			S=N	ML=3.7		0.4	0.07
			S=E			0.4	0.1
GTA	5.4	285	PG	07 14 22.8	- 2.4		
			SG	07 15 24.4	-11.2		
			S=N	ML=3.4		0.6	0.04
			S=E			0.7	0.04
1984 12 1							
O=08 56 20.3			+/- 0.06 SEC				
LAT=36.41 N			+/- 0.73 KM				
LONG=70.55 E			+/- 0.87 KM				
DEPTH=207 KM			+/- 0.34 KM				
mb(NEIS)=4.7							
STATIONS USED=18, STAND DEV=1.03 SEC							
WMQ	15.0	55	EP	08 59 43.0	- 1.3		
			(S)	09 02 27.5	1.8		
			S=N			3.0	0.02
			S=E			3.0	0.2
GTA	23.2	73	P	09 01 12.2	1.5		
CD2	28.1	91	EP	09 01 56.4	1.1		
GYA	32.2	97	P	09 02 29.4	- 2.1		
1984 12 1							
O=09 37 10.6			+/- 0.12 SEC				
LAT=33.07 N			+/- 1.19 KM				
LONG=96.65 E			+/- 1.52 KM				
DEPTH=33 KM			+/- 0.09 KM				
Ms(CHINA)=3.9/2. ML(CHINA)=3.7/3							
STATIONS USED=14, STAND DEV=2.22 SEC							
LSA	5.8	235	P	09 38 36.4	- 0.5		
			ES	09 39 47.0	3.6		
CD2	6.4	107	EP	09 39 02.0	17.0		
			LN	Ms=4.2		9.0	1.8
LZH	6.6	61	EP	09 38 48.0	- 0.8		
GTA	6.8	21	EP	09 38 52.8	1.6		
			LG_2	09 40 46.8	- 8.9		
			LE	Ms=3.6		9.0	0.4
XAN	10.3	81	E(P)	09 39 34.4	- 4.8		
WMQ	12.8	329	EP	09 40 12.2	- 1.3		
CN2	24.9	56	EP	09 42 30.6	- 1.2		
1984 12 1							
O=17 15 04.1			+/- 0.15 SEC				
LAT=12.46 S			+/- 2.75 KM				
LONG=167.15 E			+/- 3.18 KM				
DEPTH=298 KM			+/- 1.79 KM				
mb(NEIS)=4.8							
STATIONS USED=31, STAND DEV=2.43 SEC							

STA CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SSE	61.8	315	IP	17 24 53.0	− 1.3		
NJ2	64.0	315	EP	17 25 07.8	− 0.6		
TIA	67.6	317	EP	17 25 30.0	− 1.2		
CN2	67.7	328	EP	17 25 30.4	− 1.2		
GYA	70.3	304	P	17 25 48.2	0.0		
XAN	72.1	312	E(P)	17 25 58.4	− 0.2		
KMI	73.0	301	PD	17 26 05.0	0.7		
CD2	74.5	307	P	17 26 13.8	0.9		
LZH	76.7	311	EP	17 26 26.0	0.8		

1984 12 1
O=18 45 24.8 +/− 0.15 SEC
LAT=51.29 N +/− 1.27 KM
LONG=176.29 W +/− 0.83 KM
DEPTH=41 KM +/− 1.27 KM
mb(NEIS)=5.0,
STATIONS USED=45, STAND DEV=0.88 SEC

CN2	39.1	282	EP	18 52 49.4	− 1.0		
SNY	41.3	281	IPC	18 53 09.2	0.4		
BJI	46.9	283	EP	18 53 54.0	0.2		
TIA	48.7	279	EP	18 54 07.5	− 0.5		
HHC	49.2	287	EP	18 54 12.4	0.5		
BTO	50.3	288	EP	18 54 20.0	− 0.1		
TIY	50.7	283	P	18 54 23.2	0.4		
XAN	55.2	282	EP	18 54 55.6	− 1.1		
LZH	56.9	287	EP	18 55 09.0	0.0		
			P-Z			1.5	0.07
GTA	57.1	293	P	18 55 09.0	− 1.0		
CD2	60.5	283	P	18 55 33.8	− 0.2		
			P-Z			0.8	0.07
GYA	61.9	277	P	18 55 42.4	− 0.9		
KMI	65.3	279	PC	18 56 05.0	− 0.7		

1984 12 1
O=21 07 57.1 +/− 0.21 SEC
LAT=14.90 N +/− 3.62 KM
LONG=144.67 E +/− 4.22 KM
DEPTH=30 KM +/− 0.80 KM
mb(NEIS)=5.1
STATIONS USED=9, STAND DEV=3.32 SEC

SSE	26.9	310	E(P)	21 13 46.0	8.5		
			ES	21 18 20.0	9.4		
CD2	40.7	300	EP	21 15 35.8	− 0.9		
LZH	42.1	307	EP	21 15 46.0	− 2.4		
GTA	46.2	310	EP	21 16 18.4	− 3.1		
WMQ	56.1	313	EP	21 17 33.8	− 2.8		

STA CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ

1984 12 1
O=23 17 01.0 +/− 0.10 SEC
LAT=52.80 N +/− 2.22 KM
LONG=152.78 E +/− 1.69 KM
DEPTH=420 KM +/− 0.16 KM
mb(NEIS)=4.3
STATIONS USED=36, STAND DEV=1.17 SEC

MDJ	17.3	251	EP	23 20 40.0	1.7		
CN2	20.2	254	PC	23 21 07.0	0.4		
SNY	22.5	252	EP	23 21 28.6	0.4		
TIA	30.0	250	PD	23 22 34.8	− 0.1		
NJ2	32.1	243	EP	23 22 52.6	− 0.4		
XAN	36.3	256	EP	23 23 27.8	− 0.7		
GTA	38.2	271	P	23 23 45.6	1.0		
CD2	41.6	258	P	23 24 12.0	0.3		
			P-Z			0.4	0.03
WMQ	42.8	285	IPD	23 24 23.3	1.3		
GYA	43.2	250	P	23 23 24.0	− 0.7		

1984 12 2
O=01 54 10.6 +/− 0.18 KM
LAT=37.10 N +/− 2.13 KM
LONG=72.17 E +/− 2.08 KM
DEPTH=158 KM +/− 0.75 KM
mb(NEIS)=4.5
STATIONS USED=18, STAND DEV=2.73 SEC

WMQ	13.6	55	P	01 57 19.5	1.4		
GTA	21.8	75	P	01 58 56.3	5.3		

1984 12 2
O=03 41 20.4 +/− 0.14 SEC
LAT=22.94 N +/− 0.89 KM
LONG=121.42 E +/− 0.85 KM
DEPTH=0 KM +/− 0.03KM
ML(CHINA)=3.3/3
STATIONS USED=6, STAND DEV=0.29 SEC

QZH	3.3	308	PNC	03 42 13.5	− 0.4		
			SN	03 42 50.0	− 4.1		
			SG	03 43 06.4	3.6		
			S-N	ML=3.3		0.4	0.1
			S-E			0.4	0.08

1984 12 2
O=06 09 43.3 +/− 0.18 SEC
LAT=20.38 N +/− 5.28 KM
LONG=115.78 W +/− 6.63 KM

STA CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=9 KM +/- 1.12 KM							
Ms(CHINA)=6.1/15, Msz(NEIS)=6.2.							
mb(NEIS)=6.0							
STATIONS USED=67, STAND DEV=3.33 SEC							
MDJ	92.1	319	EP	06 22 56.0	0.8		
			PP	06 26 35.0	- 1.7		
			SKS	06 33 30.0	- 4.5		
			S	06 34 02.0	6.2		
			LE	Ms=5.7		38.0	5.4
CN2	95.1	320	EP	06 23 07.0	- 1.7		
			P=Z			7.0	1.6
			PP	06 26 55.5	- 3.7		
			PP=Z			8.0	1.2
			ES	06 34 13.0	- 8.2		
			LN	Ms=6.0		18.0	5.3
SNY	97.3	319	IP R	06 23 19.0	0.0		
			P=Z			12.0	2.1
			PP	06 27 14.0	- 3.3		
			SKS	06 34 03.8	10.0		
			S	06 34 33.0	- 7.3		
			XS	06 34 44.0	- 5.5		
			PS	06 36 00.0			
			SS	06 41 31.0	10.7		
			LE	Ms=6.1		18.0	6.4
DL2	100.2	318	EP	06 23 32.0	- 0.2		
			PP	06 27 42.0	2.4		
			ES	06 35 08.0	3.1		
			LN	Ms=6.0		15.0	1.5
			LE			20.0	3.7
BJI	102.8	321	EP	06 23 46.0	2.2		
			EPP	06 27 53.0	- 6.4		
			P=Z			9.0	0.5
			ESKS	06 34 24.0	2.9		
			ES	06 35 27.0	0.5		
			S=E			10.0	0.5
			LN	Ms=6.2		15.0	3.7
			LE			16.0	4.6
TIA	104.7	318	EP	06 23 49.0	- 3.1		
			PP	06 28 08.0	- 5.6		
			PP=N			9.0	0.5
			PP=E			9.0	0.6
			PP=Z			9.0	1.5
			ESKS	06 34 32.0	2.3		
			ES	06 35 30.0	-12.3		
			SS	06 42 54.0	- 8.9		
			LN	Ms=5.8		35.0	3.2
			LE			40.0	4.8
HHC	104.9	324	P_{dif}	06 23 55.0	2.0		
			PP	06 28 18.0	3.2		
			SS	06 43 17.0	11.9		
			LN	Ms=6.2		22.0	4.2
			LE			22.0	6.9
BTO	105.9	325	EP_{dif}	06 23 57.0	- 0.4		
			PP	06 28 20.0	- 1.8		
			SS	06 43 17.0	- 2.2		
			LN	Ms=6.5		20.0	11.4
			LE			20.0	6.9
GTA	111.9	330	EPKP	06 28 11.8	- 7.9		
WMQ	112.6	341	PKP	06 28 21.5	0.4		
			PP	06 29 12.0	0.5		
			PP=Z			9.0	2.4
			SKS	06 35 14.0	-15.8		
			SS	06 45 05.0	15.9		
			LN	Ms=6.0		18.0	3.3
GYA	117.9	316	PKP	06 28 32.0	0.6		
			PP	06 29 44.0	- 4.7		
			PS	06 39 55.0			
			LN	Ms=6.1		20.0	2.5
			LE			20.0	4.3
QZN	120.6	308	PKP	06 28 39.0	2.3		
			PP	06 30 07.5	0.8		
			PP=Z			9.0	0.9
			SKS	06 36 16.0	30.9		
			SKKS	06 36 56.0			
			PS	06 39 58.0			
			SS	06 46 49.0	15.8		
			LN	Ms=6.0		15.0	1.7
			LE			18.0	2.4
KMI	121.3	318	EPKP	06 28 39.0	0.7		
1984 12 2							
O=08 35 45.7			**+/- 0.11 SEC**				
LAT=63.55 N			**+/- 2.05 KM**				
LONG=150.48 E			**+/- 2.04 KM**				
DEPTH=34 KM			**+/- 0.20 KM**				
Ms(CHINA)=4.8/10, Msz(NEIS)=4.6.							
mb(NEIS)=5.2							
STATIONS USED=64, STAND DEV=1.68 SEC							
MDJ	22.4	221	EP	08 40 42.0	- 0.8		
CN2	24.4	227	PD	08 41 02.4	- 0.3		
			ES	08 45 15.0	- 2.9		
			LN	Ms=4.7		9.0	1.2

STA CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SNY	26.8	228	EP	08 41 27.2	2.1		
			LG_2	08 50 14.5	−15.8		
			LE	Ms=5.0		10.0	1.9
BJI	31.0	237	EP	08 42 01.5	− 1.4		
			ELG	08 52 03.0			
			LN	Ms=4.7		10.0	0.8
BTO	33.0	245	EP	08 42 20.0	− 0.1		
			LG_1	08 52 39.0	−22.2		
			LG_2	08 53 30.0	−23.4		
			LN	Ms=5.1		10.0	1.6
			LE			10.0	1.1
TIA	34.1	232	EP	08 42 31.9	2.5		
TIY	34.5	239	EP	08 42 33.0	− 0.1		
NJ_2	37.3	227	EP	08 42 56.0	− 0.5		
			LN	Ms=4.7		12.0	0.8
SSE	37.4	223	EP	08 42 55.4	− 2.2		
GTA	38.3	255	P	08 43 05.8	0.7		
			SS	08 51 40.6	5.2		
XAN	39.1	240	EP	08 43 12.2	0.5		
			LN	Ms=5.2		11.0	0.9
			LE			10.0	1.5
LZH	39.3	248	EP	08 43 14.5	0.4		
			LE	Ms=5.0		7.0	0.7
WMQ	40.1	271	E(P)	08 43 21.0	0.8		
CD_2	43.9	244	P	08 43 51.2	0.0		
GYA	46.7	238	P	08 44 13.6	− 0.2		
KMI	49.4	242	EP	08 44 32.0	− 3.1		

1984 12 2
O=08 42 44.4 +/− 0.01 SEC
LAT=40.18 N +/− 0.31 KM
LONG=79.10 E +/− 0.30 KM
DEPTH=53 KM +/− 0.50 KM
Ms(CHINA)=5.1/1
STATIONS USED=4.STAND DEV=0.82 SEC

WMQ	7.4	57	P	08 44 32.0	− 0.1		
			S	08 45 57.5	2.3		
			LG_1	08 46 44.5	8.9		
			LN			3.0	0.7
TIY	26.0	84	EP	08 48 15.6	1.3		
			LN	Ms=5.1		11.0	2.7
			LE			11.0	2.0

1984 12 2
O=09 04 43.9 +/− 0.22 SEC
LAT=20.88 N +/− 3.80 KM
LONG=119.68 E +/− 2.91 KM
DEPTH=33 KM +/− 0.97 KM
mb(NEIS)=4.6.ML(CHINA)=3.4/3
STATIONS USED=17, STAND DEV=3.64 SEC

GZH	6.3	291	EP	09 06 15.0	− 1.7		
			S	09 07 21.3	− 7.0		
			LN			0.5	0.1
			LE			0.5	0.09
QZN	9.4	260	EP	09 07 02.6	1.9		
			ES	09 08 48.5	1.6		
			XS	09 08 56.0			
			LN			12.0	0.4
GYA	13.2	297	P	09 07 52.0	0.6		
CD_2	17.4	308	EP	09 08 50.0	3.3		
BJI	19.3	351	(P)	09 09 06.5	− 3.0		
LZH	20.5	320	EP	09 09 14.0	− 8.6		
CN_2	23.4	10	EP	09 09 58.8	8.1		
MDJ	25.1	16	EP	09 10 04.5	− 2.7		

1984 12 2
O=15 20 38.6 +/− 0.27 SEC
LAT=26.45 N +/− 2.46 KM
LONG=96.74 E +/− 2.50 KM
DEPTH=36 KM +/− 0.58 KM
Ms(CHINA)=3.7/1.mb(NEIS)=4.5.ML(CHINA)=4.1/5
STATIONS USED=11, STAND DEV=1.92 SEC

KMI	5.6	102	EP	15 22 04.0	2.4		
			ES	15 23 06.0	0.5		
			LN	Ms=3.7		8.0	0.6
CD_2	7.6	52	P	15 22 28.0	− 1.9		
GYA	8.9	87	P	15 22 46.4	− 1.6		
WMQ	18.8	339	EP	15 24 57.0	− 1.1		

1984 12 2
O=18 38 48.1 +/− 0.08 SEC
LAT=35.74 N +/− 3.21 KM
LONG=140.71 E +/− 3.79 KM
DEPTH=61 KM +/− 2.31 KM
mb(NEIS)=4.6
STATIONS USED=7.STAND DEV=1.44 SEC

MDJ	12.3	319	EP	18 41 41.5	− 0.9
CN_2	14.2	309	EP	18 42 09.8	1.8
BJI	19.8	289	(P)	18 43 15.5	− 1.0
XAN	26.1	275	EP	18 44 19.4	1.2
WMQ	40.9	298	P	18 46 26.0	− 0.8

STA CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 12 2							
O=19 30 46.4			+/-	0.15 SEC			
LAT=39.77 N			+/-	1.47 KM			
LONG=116.56 E			+/-	1.50 KM			
DEPTH=33 KM			+/-	0.16 KM			
ML(CHINA)=2.9/11							
STATIONS USED=7, STAND DEV=3.81 SEC							
BJI	0.4	312	P	19 30 59.5	3.6		
			I	19 31 09.0			
			S-N	ML=3.6		0.5	3.9
			S-E			0.5	4.7
TIA	3.6	172	EP	19 31 45.1	4.1		
			I	19 31 55.8			
			S	19 32 23.8	1.1		
			S-N	ML=2.7		0.3	0.02
			S-E			0.3	0.02
TIY	3.8	238	EP	19 31 56.6	13.9		
			LG2	19 33 03.6	11.1		
			S-N	ML=2.9		0.6	0.03
			S-E			0.6	0.03
BTO	5.1	281	EP	19 32 22.1	19.6		
			LG2	19 33 36.3	2.3		
			S-N	ML=3.1		0.6	0.03
			S-E			0.6	0.01
1984 12 2							
O=21 09 25.9			+/-	0.23 SEC			
LAT=3.79 S			+/-	3.28 KM			
LONG=152.00 E			+/-	4.14 KM			
DEPTH=18 KM			+/-	0.82 KM			
Ms(CHINA)=5.8/33, Msz(NEIS)=6.0.mb(NEIS)=5.4							
STATIONS USED=77, STAND DEV=2.70 SEC							
QZH	43.2	313	PR	21 17 30.0	1.8		
			IS	21 23 56.0	1.7		
			S-N			12.0	1.2
			S-E			11.0	1.7
			SS	21 27 02.0	1.8		
			LN	Ms=5.6		17.0	4.5
			LE			17.0	5.3
SSE	45.5	321	EP	21 17 46.0	-0.2		
			XP	21 17 58.0	1.5		
			ES	21 24 24.0	-2.6		
			XS	21 24 44.0	5.7		
			SCS	21 27 31.0	-4.5		
			LN	Ms=5.8		18.0	5.7
			LE			17.0	6.8
GZH	46.2	307	EP	21 17 55.6	3.4		
			S	21 24 38.7	1.3		
			S-N			11.0	1.8
			S-E			14.0	2.9
			LE	Ms=6.0		18.0	15.1
QZN	47.3	300	P	21 18 05.0	4.4		
			PP	21 19 55.0	4.5		
			S	21 24 55.0	2.5		
			XS	21 25 15.0	10.9		
			LN	Ms=5.7		15.0	2.8
			LE			18.0	6.0
NJ2	47.6	321	PC	21 18 04.4	1.6		
			S	21 24 60.0	3.4		
			S-N			11.0	2.0
			S-E			11.0	2.1
			XS	21 25 23.0	14.7		
			LN	Ms=5.7		16.0	6.1
DL2	50.9	329	EP	21 18 30.0	1.4		
			ES	21 25 41.5	-1.7		
			LN	Ms=5.6		14.0	2.9
			LE			12.0	2.3
TIA	51.4	323	EP	21 18 31.0	-1.6		
			XP	21 18 47.5	4.6		
			SCP	21 23 28.4	-12.0		
			ES	21 25 50.5	-0.1		
			S-N			11.0	0.8
			S-E			11.0	1.2
			LN	Ms=5.7		15.5	3.9
			LE			15.0	3.3
MDJ	52.2	339	EP	21 18 36.0	-2.4		
			AP	21 18 48.0	2.6		
			S	21 25 58.0	-3.2		
			LE	Ms=5.7		34.0	12.7
SNY	52.2	333	IP U	21 18 40.9	2.2		
			S	21 25 55.0	-6.7		
			LN	Ms=5.9		20.0	4.2
			LE			20.0	9.2
CN2	53.0	336	EP	21 18 42.8	-2.0		
			P-N			5.0	0.5
			P-E			5.0	0.5
			P-Z			5.0	1.1
			XP	21 18 59.0	3.9		
			ES	21 26 06.0	-6.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_mN			10.0	1.9
			LN	Ms=5.8		18.0	8.0
GYA	53.1	307	P	21 18 47.0	1.4		
			AP	21 18 50.0	− 2.5		
			PP	21 20 55.0	8.8		
			S	21 26 22.0	7.7		
			S_mN			10.0	1.5
			S_mE			10.0	3.6
			LN	Ms=6.0		19.0	3.6
			LE			19.0	11.2
BJI	54.6	326	EP	21 18 53.0	− 3.2		
			(S)	21 26 26.0	− 7.8		
			LN	Ms=5.7		20.0	6.8
TIY	55.2	322	EP	21 19 00.9	0.0		
			S	21 26 44.5	2.0		
			LE	Ms=5.9		20.0	10.3
XAN	55.3	316	EP	21 18 58.2	− 3.4		
			S	21 26 42.0	− 1.8		
			S_mN			17.0	2.8
			S_mE			14.0	1.4
			LN	Ms=6.1		16.0	6.7
			LE			20.0	13.1
KMI	55.8	303	EP	21 19 06.0	1.2		
			P_mZ			6.0	0.6
			XP	21 19 17.0	2.0		
			PP	21 21 10.0	0.3		
			S	21 26 40.0	− 9.7		
			XS	21 26 57.0	− 4.0		
			SS	21 30 23.0	−10.2		
			LN	Ms=5.8		22.0	9.1
CD2	57.5	310	P	21 19 16.8	− 0.1		
			EPP	21 21 32.0	6.8		
			S	21 27 16.0	3.9		
			S_mN			20.0	6.5
			LE	Ms=6.0		20.0	12.6
HHC	57.8	324	P	21 19 18.8	− 0.2		
			S	21 27 17.0	1.0		
			LN	Ms=5.8		18.0	4.7
			LE			19.0	5.1
LZH	59.9	315	EP	21 19 35.0	0.7		
			P_mZ			6.0	1.0
			ES	21 27 45.0	0.4		
			S_mN			11.0	2.1
			LN	Ms=5.9		17.0	3.4
			LE			20.0	7.0
GTA	64.4	317	P	21 20 03.7	− 0.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
WMQ	74.5	317	P	21 21 05.5	− 0.3		
			S	21 30 44.0	4.8		
			S_mN			8.0	1.4
			LN	Ms=5.8		30.0	6.9

1984 12 3
O=04 08 33.7 +/− 0.08 SEC
LAT=44.38 N +/− 2.31 KM
LONG=148.07 E +/− 1.67 KM
DEPTH=61 KM +/− 0.53 KM
Ms(CHINA)=6.1/32,mb(NEIS)=6.4
STATIONS USED=113,STAND DEV=1.67 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	13.2	277	PD	04 11 41.5	1.2		
			IS	04 14 08.0	1.8		
			LE	Ms=6.2		18.0	156.7
CN2	16.3	275	EP	04 12 18.7	− 1.1		
			P_mE			6.0	15.1
			P_mZ			6.0	14.8
			AP	04 12 31.0	0.9		
			ES	04 15 16.0	− 1.9		
			S_mN			9.0	14.0
			ESS	04 15 37.0	0.0		
			LN	Ms=6.1		14.5	88.5
SNY	18.0	270	IPR	04 12 41.0	− 1.1		
			P_mZ			7.0	5.1
			XP	04 12 54.0	− 7.7		
			IS	04 15 58.0	−11.1		
			S_mN			7.5	30.0
			S_mE			10.0	13.5
			SS	04 16 19.5	− 2.0		
			LN	Ms=5.9		11.0	11.5
			LE			15.0	39.9
DL2	20.5	263	IPU	04 13 09.0	0.0		
			AP	04 13 19.0	− 3.1		
			XP	04 13 25.0	− 5.0		
			PCP	04 17 20.0	1.7		
			IS	04 16 50.0	0.2		
			S_mN			7.0	40.0
			S_mE			11.0	46.2
			LN	Ms=6.0		16.0	34.9
			LE			17.0	49.7
BJI	23.9	270	EP	04 13 44.5	1.2		
			P_mE			5.0	11.2
			P_mZ			6.0	15.6
			XP	04 14 05.0	0.1		
			S	04 17 57.0	4.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_mN			9.0	20.2
			S_mE			11.0	15.4
			SS	04 18 55.0	10.1		
			LE	Ms=6.2		17.0	72.4
TIA	24.9	261	PC	04 13 52.8	0.4		
			XP	04 14 14.0	0.0		
			S	04 18 13.5	4.9		
			S_mN			9.0	25.1
			S_mE			13.0	52.3
			LN	Ms=6.1		16.5	37.1
			LE			16.5	39.3
NJ2	25.9	251	PU	04 14 02.5	0.4		
			XP	04 14 25.0	1.1		
			PP	04 14 45.0	1.4		
			PCP	04 17 32.0	2.5		
			S	04 18 22.0	− 3.8		
			XS	04 18 44.0	− 6.3		
			LN	Ms=6.3		16.0	33.6
			LE			16.0	60.1
HHC	27.0	275	PC	04 14 13.0	1.0		
			XP	04 14 35.0	1.4		
			S	04 18 43.0	− 0.3		
			S_mE			10.0	14.6
			LN	Ms=6.3		14.0	29.6
			LE			18.0	55.8
TIY	27.5	268	IPU	04 14 18.0	0.8		
			P_mZ			1.0	1.3
			XP	04 14 32.5	− 6.4		
			S	04 18 55.0	2.4		
			S_mN			7.0	2.2
			S_mE			8.0	2.8
			XS	04 19 20.0	2.9		
			LE	Ms=6.0		20.0	45.1
QZH	30.8	240	IPU	04 14 46.0	− 0.2		
			P_mZ			5.0	5.7
			XP	04 15 03.0	− 5.2		
			PP	04 15 50.0	2.1		
			IS	04 19 44.0	− 0.3		
			S_mN			8.0	7.8
			S_mE			8.0	12.1
			LN	Ms=5.8		16.0	6.8
			LE			16.0	17.9
XAN	31.8	264	PC	04 14 54.6	− 0.3		
			P_mZ			6.0	2.7
			XP	04 15 09.0	− 7.8		
			PP	04 16 06.0	5.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	04 19 56.0	− 3.8		
			S_mN			8.0	10.0
			S_mE			10.0	7.7
			XS	04 20 20.0	− 4.8		
			LN	Ms=6.1		17.0	26.2
			LE			16.0	26.5
LZH	34.4	271	IPC	04 15 19.0	1.1		
			P_mZ			4.0	6.1
			XP	04 15 31.0	− 8.8		
			S	04 20 38.0	− 3.1		
			S_mN			6.0	26.6
			PCS	04 21 55.0	18.4		
			LN	Ms=6.3		16.0	26.1
			LE			17.0	40.9
GZH	35.5	244	PC	04 15 27.3	0.6		
			P_mZ			5.0	4.1
			XP	04 15 45.0	− 3.8		
			PP	04 16 56.0	9.1		
			S	04 20 57.0	0.1		
			S_mN			10.0	11.3
			S_mE			12.0	5.8
			LN	Ms=6.0		12.0	11.3
			LE			13.5	11.4
GTA	35.8	279	IPC	04 15 31.6	1.5		
			S	04 21 02.0	− 1.1		
			S_mN			9.5	13.4
			LE	Ms=6.2		13.0	24.4
CD2	37.1	264	IPC	04 15 41.7	0.9		
			P_mZ			1.0	0.5
			XP	04 16 03.0	0.1		
			S	04 21 22.0	− 0.6		
			S_mN			6.0	24.1
			LE	Ms=6.1		20.0	28.6
GYA	37.7	255	PC	04 15 45.2	− 0.6		
			XP	04 16 07.0	− 0.9		
			S	04 21 31.0	− 0.7		
			S_mN			7.0	7.6
			S_mE			7.0	6.1
			SS	04 24 25.0	17.4		
			LN	Ms=6.2		16.0	19.8
			LE			16.0	22.6
QZH	40.6	243	IPU	04 16 11.0	1.1		
			P_mN			6.0	1.4
			P_mE			6.0	1.6
			P_mZ			6.0	4.2
			XP	04 16 28.0	− 4.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			PP	04 17 46.0	− 1.0		
			S	04 22 19.0	3.5		
			S＝N			10.0	7.1
			S＝E			10.5	5.9
			XS	04 22 45.0	4.0		
			SS	04 25 24.0	12.1		
			LN	Ms＝6.2		15.0	14.0
			LE			14.0	17.7
KMI	41.3	257	IPU	04 16 16.0	0.4		
			P＝Z			5.0	6.8
			XP	04 16 35.5	− 2.1		
			PP	04 17 59.0	5.1		
			IS	04 22 25.0	− 0.7		
			S＝E			8.0	22.3
			XS	04 22 59.0	8.2		
			LN	Ms＝6.0		14.0	16.1
WMQ	42.5	291	IPC	04 16 26.5	1.4		
			XP	04 16 39.0	− 8.4		
			PCS	04 22 08.0	0.8		
			IS	04 22 42.0	− 0.8		
			S＝N			7.0	15.6
			S＝E			7.0	15.0
			SCS	04 26 22.0	4.7		
			LN	Ms＝6.8		16.0	62.3
			LE			14.0	59.8

1984 12 3
O＝04 17 42.5 +/− 0.08 SEC
LAT＝27.36 N +/− 1.28 KM
LONG＝96.55 E +/− 1.47 KM
DEPTH＝39 KM +/− 0.68 KM
Ms(CHINA)＝5.0/1,mb(NEIS)＝5.3,ML(CHINA)＝5.1/2
STATIONS USED＝21, STAND DEV＝1.65 SEC

KMI	6.0	110	PU	04 19 13.0	1.7		
			S	04 20 23.0	3.2		
			LE	Ms＝5.0		8.0	13.1
GYA	9.1	93	P	04 19 52.4	− 1.8		
NJ2	19.9	71	PC	04 22 11.2	− 2.8		
SSE	21.8	74	IPC	04 22 33.2	− 0.1		
			P＝Z			1.0	0.06

1984 12 3
O＝05 33 00.0 +/− 0.14 SEC
LAT＝27.51 N +/− 1.75 KM
LONG＝96.69 E +/− 1.58 KM
DEPTH＝34 KM +/− 0.16 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
mb(NEIS)＝4.5,ML(CHINA)＝4.1/4							
STATIONS USED＝17, STAND DEV＝2.57 SEC							
KMI	5.9	112	EP	05 34 28.0	0.0		
			ES	05 35 38.0	2.1		
			LE			10.0	1.5
CD2	7.0	59	EP	05 34 45.0	1.4		
GYA	9.0	94	P	05 35 08.2	− 2.1		
WMQ	17.8	338	EP	05 37 08.5	1.1		
TIA	19.4	58	EP	05 37 28.9	2.9		

1984 12 3
O＝10 55 55.4 +/− 0.30 SEC
LAT＝41.89 N +/− 4.05 KM
LONG＝142.33 E +/− 1.84 KM
DEPTH＝70 KM +/− 5.78 KM
mb(NEIS)＝4.8
STATIONS USED＝19, STAND DEV＝3.58 SEC

MDJ	9.7	290	EP	10 58 17.0	2.6
CN2	12.5	284	EP	10 58 54.2	1.4
SNY	14.0	275	EP	10 58 58.6	−13.1
SSE	20.1	244	EP	11 00 26.0	0.2
TIA	20.3	262	EP	11 00 27.3	− 1.4
NJ2	21.1	249	EP	11 00 35.4	− 1.1
WHN	25.1	252	E(P)	11 01 19.0	3.2
XAN	27.3	264	EP	11 01 35.4	− 0.9
GTA	32.1	279	P	11 02 19.4	0.7

1984 12 3
O＝12 22 45.2 +/− 0.38 SEC
LAT＝52.07 N +/− 4.14 KM
LONG＝177.45 E +/− 1.92 KM
DEPTH＝95 KM +/− 2.32 KM
mb(NEIS)＝4.9
STATIONS USED＝28, STAND DEV＝2.55 SEC

CN2	35.1	277	EP	12 29 30.0	− 1.9
TIA	44.8	273	EP	12 30 50.6	− 1.0
GTA	53.1	288	P	12 31 55.6	− 0.6
CD2	56.6	278	P	12 32 20.0	− 0.8
WMQ	57.0	300	P	12 32 23.0	− 1.0
GYA	57.9	272	P	12 32 43.0	12.3

1984 12 3
O＝13 41 27.7 +/− 0.26 SEC
LAT＝7.42 N +/− 4.20 KM
LONG＝121.66 E +/− 4.46 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=22 KM +/- 0.58 KM							
Ms(CHINA)=4.7/14, mb(NEIS)=4.6							
STATIONS USED=32, STAND DEV=3.75 SEC							
QZH	16.3	316	EP	13 45 21.2	4.2		
			ES	13 48 22.0	5.0		
			LG_1	13 50 16.0	16.8		
			LG_2	13 50 35.0	10.0		
			LN	Ms=4.9		11.0	3.7
			LE			11.0	2.0
GZH	17.5	333	E	13 45 23.5	- 8.9		
			LN	Ms=4.8		12.0	1.4
			LE			11.0	2.6
QZH	17.7	350	EP	13 45 32.0	- 2.4		
			LE	Ms=4.1		12.0	0.6
SSH	23.6	358	EP	13 46 36.3	- 1.5		
			ES	13 50 42.0	- 5.4		
			XS	13 50 53.0	- 6.2		
WHN	24.0	344	EP	13 46 52.0	9.9		
			S	13 51 06.0	10.8		
			S_E			8.0	0.8
			LE	Ms=4.7		12.0	1.7
NJ2	24.6	354	EP	13 46 47.4	- 1.0		
			XS	13 51 17.0	- 1.0		
			SS	13 51 52.0	- 9.5		
			LE	Ms=4.5		11.0	0.9
KMI	25.2	316	EP	13 46 45.5	- 8.8		
CD2	28.8	326	P	13 47 26.0	- 0.4		
			ES	13 52 07.0	- 6.5		
			LE	Ms=5.0		10.0	1.8
TIA	29.0	352	EP	13 47 32.8	4.7		
			ESS	13 53 53.0	8.7		
			LN	Ms=4.6		10.0	0.4
			LE			10.0	0.6
BJI	32.8	352	EP	13 48 03.5	1.0		
CN2	36.4	4	EP	13 48 38.0	5.2		
GTA	37.4	331	P	13 48 42.0	0.4		
			S	13 54 32.5	3.7		
			LE	Ms=4.7		13.0	0.9

1984 12 3

O=15 56 14.0 +/- 0.08 SEC
LAT=0.04 S +/- 0.81 KM
LONG=123.26 E +/- 1.23 KM
DEPTH=174 KM +/- 0.76 KM
mb(NEIS)=5.0
STATIONS USED=30, STAND DEV=1.03 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	23.1	325	EP	16 01 04.5	- 0.9		
GYA	30.8	330	P	16 02 17.0	0.8		
CD2	35.9	330	P	16 03 00.0	0.2		
			AP	16 03 31.8	- 4.8		
XAN	36.5	339	EP	16 03 04.0	- 0.5		
GTA	44.7	334	P	16 04 12.5	0.2		
WMQ	54.0	328	EP	16 05 22.6	0.0		

1984 12 3

O=16 30 05.0 +/- 0.39 SEC
LAT=15.59 S +/- 4.03 KM
LONG=177.40 W +/- 3.52 KM
DEPTH=91 KM +/- 1.90 KM
mb(NEIS)=4.8
STATIONS USED=17, STAND DEV=1.83 SEC

CN2	78.8	321	EP	16 42 01.0	0.9		
BJI	82.8	314	EP	16 42 20.5	- 0.9		
TIY	84.5	311	EP	16 42 29.0	- 0.6		
XAN	85.6	306	E(P)	16 42 35.4	0.0		
BTO	87.3	313	EP	16 42 44.9	1.1		
CD2	88.6	302	(P)	16 42 50.0	0.9		

1984 12 4

O=01 48 20.8 +/- 0.22 SEC
LAT=22.38 S +/- 6.02 KM
LONG=170.88 E +/- 4.71 KM
DEPTH=50 KM +/- 2.18 KM
mb(NEIS)=4.5
STATIONS USED=25, STAND DEV=3.72 SEC

TIA	77.3	318	EP	02 00 12.0	- 0.5		
CN2	77.9	328	EP	02 00 14.0	- 1.9		
GYA	78.9	304	P	02 00 21.0	- 0.2		
KMI	81.2	301	EP	02 00 35.0	1.0		
XAN	81.3	312	EP	02 00 34.0	- 0.5		
CD2	83.3	307	EP	02 00 45.8	1.0		
LZH	86.0	311	EP	02 00 59.0	1.1		

1984 12 4

O=07 43 22.5 +/- 0.06 SEC
LAT=22.57 N +/- 1.39 KM
LONG=143.44 E +/- 1.30 KM
DEPTH=124 KM +/- 0.25 KM
mb(NEIS)=5.8
STATIONS USED=96, STAND DEV=1.08 SEC

SSE	21.6	297	IPR	07 48 04.0	0.6		
			P_mN			1.0	0.4

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			P_mE			1.0	0.8
			P_mZ			1.0	1.1
			AP	07 48 26.0	− 1.8		
			XP	07 48 40.0	− 3.3		
			S	07 51 55.0	5.1		
			S_mE			8.0	3.3
			SS	07 52 47.0	11.5		
			PCS	07 55 40.0	1.5		
			SCS	07 59 12.0	3.2		
QZH	22.9	280	EP	07 48 16.0	0.0		
			P_mZ			3.0	4.1
			AP	07 48 40.0	− 1.1		
			XP	07 48 53.0	− 3.3		
			S	07 52 13.0	0.3		
			S_mN			4.0	0.8
			S_mE			3.0	0.7
			LN			11.0	0.7
NJ2	23.8	298	IRR	07 48 26.0	1.4		
			P_mZ			4.0	3.3
			XP	07 48 58.0	− 7.1		
			S	07 52 26.5	− 1.5		
			SS	07 53 21.0	− 6.4		
DL2	24.7	316	IPR	07 48 34.0	0.0		
			P_mN			3.0	7.3
			P_mE			3.0	2.9
			P_mZ			3.0	4.6
			XP	07 49 19.0	4.4		
			IS	07 52 53.0	8.4		
			S_mN			8.0	1.9
			S_mE			9.1	4.7
MDJ	24.8	335	PD	07 48 35.5	1.2		
			AP	07 49 03.0	3.2		
			S	07 52 46.0	1.0		
			LE			40.0	3.7
SNY	25.4	323	IPD	07 48 39.7	− 0.7		
			P_mZ			3.0	2.7
			XP	07 49 15.5	− 5.6		
			PP	07 49 31.0	6.0		
			IS	07 53 05.0	9.2		
			S_mN			6.0	2.8
			S_mE			7.5	3.8
			LE			29.0	3.2
CN2	25.9	329	IPR	07 48 44.0	− 0.7		
			P_mZ			4.0	1.3
			AP	07 49 08.0	− 2.6		
			XP	07 49 20.5	− 5.1		
			ES	07 53 02.0	− 1.5		
			S_mN			7.0	2.5
			S_mE			7.0	1.6
			XS	07 53 44.0	− 5.1		
			SCP	07 55 36.5	− 0.8		
TIA	26.6	306	PD	07 48 51.3	0.3		
			P_mN			7.0	0.6
			P_mE			7.0	1.2
			P_mZ			7.0	2.3
			XP	07 49 30.0	− 1.9		
			PCP	07 52 13.0	0.8		
			SCP	07 55 41.5	2.2		
			S	07 53 27.0	12.3		
			S_mN			8.0	0.2
			S_mE			8.0	1.2
			SCS	07 59 30.8	2.3		
			LN			12.0	0.9
			LE			12.0	0.8
WHN	27.2	293	P	07 48 57.0	0.6		
			P_mZ			5.0	1.2
			AP	07 49 21.0	− 1.5		
			XP	07 49 37.0	− 0.4		
			PCP	07 52 15.5	1.9		
			SCP	07 55 43.0	2.0		
			ES	07 53 23.0	− 1.3		
			LN			10.0	1.2
GZH	27.7	276	IPD	07 49 02.0	0.4		
			(S)	07 53 30.0	− 3.5		
			LN			9.0	1.1
BJI	28.9	313	PD	07 49 11.0	− 1.3		
			P_mN			4.5	0.3
			P_mE			4.0	0.5
			P_mZ			4.5	0.7
			AP	07 49 36.0	− 2.7		
			PCP	07 52 18.0	0.0		
			SCP	07 55 48.0	1.5		
			ES	07 53 49.0	− 3.6		
			EXS	07 54 36.5	− 2.5		
			ESS	07 55 25.0	− 5.2		
			SCS	07 59 40.0	0.9		
			LE			15.0	1.2
TIY	30.6	306	IPR	07 49 27.0	− 0.4		
			P_mZ			4.5	1.3
			XP	07 50 07.7	− 0.9		
			PP	07 50 42.0	10.2		
			S	07 54 20.0	0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN			10.0	1.2
QZN	31.6	269	EP	07 49 36.4	0.7		
			ES	07 54 38.5	4.2		
			XS	07 55 24.0	2.7		
XAN	32.3	298	PD	07 49 41.6	− 0.8		
			PP	07 50 45.0	− 8.6		
			ES	07 54 47.0	0.7		
			LN			15.0	2.0
HHC	32.4	311	IPR	07 49 43.0	− 0.3		
			(S)	07 54 47.5	− 0.5		
			LN			14.0	0.8
BTO	33.4	310	EP	07 49 51.4	− 0.4		
GYA	33.6	284	PR	07 49 54.0	0.5		
			XP	07 50 31.0	− 4.0		
			PP	07 51 17.0	7.9		
			S	07 55 06.0	− 0.4		
			SCP	07 56 04.0	1.8		
			SCS	08 00 05.0	2.7		
			P_mZ			2.0	1.0
CD2	36.2	291	IPD	07 50 16.0	0.1		
			P_mZ			1.2	0.4
			XP	07 50 52.0	− 5.7		
			PP	07 51 43.0	2.6		
			S	07 55 44.0	− 2.8		
			LE			11.0	1.0
LZH	36.8	300	PD	07 50 21.0	0.4		
			P_mZ			4.0	1.4
			AP	07 50 44.0	− 3.8		
			XP	07 50 59.0	− 3.4		.2
			PP	07 51 55.0	7.4		.6
			ES	07 55 55.0	− 0.5		
			SCS	08 00 26.0	6.3		
KMI	37.2	282	IPR	07 50 25.0	0.8		
			XP	07 50 60.0	− 5.8		
			ES	07 55 56.0	− 5.9		
			LN			14.0	0.5
GTA	40.6	304	IPD	07 50 52.4	0.5		
			P_mZ			1.5	0.7
			PP	07 52 29.0	− 0.6		
			PCP	07 52 52.8	1.2		
			SCP	07 56 30.6	2.6		
			S	07 56 53.0	0.9		
			XS	07 57 36.0	− 3.9		
			SCS	08 00 45.3	3.9		
			LN			12.0	0.7
WMQ	50.2	308	IPD	07 52 09.1	0.7		
			P_mZ			2.0	1.9
			AP	07 52 40.0	3.3		
			PP	07 54 04.0	− 2.0		
			S	07 59 14.0	4.0		
			S_mN			4.0	1.2
			XS	07 59 52.0	− 7.5		
			SCS	08 01 45.0	2.1		

1984 12 4
O = 09 03 44.4 +/− 0.00 SEC
LAT = 33.84 N +/− 0.00 KM
LONG = 136.77 E +/− 0.00 KM
DEPTH = 355 KM +/− 0.00 KM
mb (NEIS) = 4.3
STATIONS USED = 34, STAND DEV = 2.96 SEC

MDJ	12.1	334	EP	09 06 28.8	0.1	
SNY	13.1	311	EP	09 06 40.0	− 0.6	
CN2	13.3	321	PC	09 06 41.7	− 0.8	
SSE	13.4	262	EP	09 06 43.6	− 0.7	
NJ2	15.2	268	IPC	09 07 03.4	− 0.4	
TIA	16.3	283	EP	09 07 14.7	− 1.7	
BJI	17.6	296	EP	09 07 27.5	− 1.0	
WHN	19.3	266	PC	09 07 47.0	− 2.0	
XAN	23.1	278	EP	09 08 21.4	− 0.4	
GYA	27.0	262	P	09 08 56.6	− 0.7	
CD2	28.0	273	IPD	09 09 05.2	− 0.7	
			P_mZ			0.8 0.04
GTA	30.0	291	P	09 09 23.6	− 0.5	

1984 12 4
O = 17 07 06.2 +/− 0.06 SEC
LAT = 50.71 N +/− 1.49 KM
LONG = 157.43 E +/− 1.11 KM
DEPTH = 33 KM +/− 0.04 KM
mb (NEIS) = 4.9
STATIONS USED = 19, STAND DEV = 0.86 SEC

MDJ	19.6	262	EP	17 11 36.2	1.0	
CD2	44.1	264	EP	17 15 14.3	0.8	
GYA	45.4	257	P	17 15 24.8	0.9	

1984 12 4
O = 22 16 52.0 +/− 0.21 SEC
LAT = 21.00 S +/− 1.72 KM
LONG = 178.92 W +/− 2.13 KM
DEPTH = 639 KM +/− 2.90 KM
mb (NEIS) = 4.8

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=28. STAND DEV=1.80 SEC							
NJ2	79.5	310	PC	22 27 57.8	1.4		
MDJ	80.4	325	EP	22 28 02.3	1.3		
CN2	82.2	322	PD	22 28 10.0	0.1		
TIA	83.0	312	EP	22 28 15.0	1.1		
BJI	85.6	315	EP	22 28 27.0	0.2		
XAN	87.7	307	EP	22 28 38.0	1.1		
1984 12 5							
O=01 15 33.2			**+/− 0.14 SEC**				
LAT=0.39 N			**+/− 1.90 KM**				
LONG=125.49 E			**+/− 3.03 KM**				
DEPTH=76 KM			**+/− 0.66 KM**				
mb(NEIS)=5.1							
STATIONS USED=41, STAND DEV=2.05 SEC							
QZN	24.1	321	EP	01 20 44.6	2.0		
GYA	31.6	326	P	01 21 51.6	− 0.1		
KMI	33.0	319	PD	01 22 04.0	0.4		
			ES	01 27 22.0	6.2		
BJI	40.4	348	EP	01 23 04.0	− 1.5		
SNY	41.3	357	PC	01 23 13.3	0.2		
CN2	43.2	359	EP	01 23 27.0	− 1.9		
MDJ	44.2	4	EP	01 23 37.5	0.7		
GTA	45.4	331	P	01 23 45.7	− 0.7		
			PCP	01 25 25.7	1.4		
WMQ	54.8	327	P	01 24 56.6	− 1.5		
1984 12 5							
O=06 52 38.3			**+/− 0.05 SEC**				
LAT=33.22 N			**+/− 0.41 KM**				
LONG=103.22 E			**+/− 0.46 KM**				
DEPTH=33 KM			**+/− 0.01 KM**				
ML(CHINA)=3.5/5							
STATIONS USED=5,STAND DEV=3.00 SEC							
CD2	2.3	168	EP	06 53 15.4	0.8		
			ES	06 53 44.2	0.9		
			S_mN	ML=3.5	0.8		0.4
			S_mE		0.8		0.2
LZH	2.9	10	EP	06 53 36.5	13.3		
			I	06 54 19.0			
			S_mN	ML=3.3	1.0		0.09
			S_mE		2.0		0.2
XAN	4.8	78	P	06 53 54.2	3.6		
			S	06 54 47.8	1.6		
			S_mN	ML=3.6	1.0		0.09
			S_mE		1.0		0.08
1984 12 5							
O=07 15 45.1			**+/− 0.25 SEC**				
LAT=33.25 N			**+/− 2.44 KM**				
LONG=96.49 E			**+/− 3.20 KM**				
DEPTH=46 KM			**+/− 0.61 KM**				
Ms(CHINA)=4.3/5, mb(NEIS)=4.4,ML(CHINA)=4.6/5							
STATIONS USED=30, STAND DEV=4.32 SEC							
CD2	6.6	108	EP	07 17 24.0	1.8		
			I	07 17 40.0			
			LN	Ms=4.9	9.0		8.7
LZH	6.7	62	PC	07 17 22.0	− 1.6		
			P_mZ		1.0		0.1
GTA	6.7	22	P	07 17 27.9	4.1		
			LG_2	07 19 25.0	− 1.4		
			LE	Ms=4.3	10.0		2.8
KMI	9.8	144	EP	07 18 00.0	− 6.2		
			ES	07 19 31.0	−24.9		
			LE	Ms=4.2	7.0		1.0
XAN	10.4	82	EP	07 18 11.0	− 3.7		
GYA	11.1	124	P	07 18 25.2	0.5		
			LN	Ms=4.5	10.0		1.8
			LE		10.0		1.3
WMQ	12.6	329	P	07 18 45.1	0.7		
BJI	17.2	61	EP	07 19 48.0	4.5		
QZN	18.5	136	EP	07 20 08.5	8.3		
			ES	07 23 31.0	1.5		
SSE	21.0	89	EP	07 20 29.2	2.0		
CN2	24.9	56	EP	07 21 05.0	− 0.2		
1984 12 5							
O=14 14 15.1			**+/− 0.13 SEC**				
LAT=27.21 N			**+/− 1.80 KM**				
LONG=81.79 E			**+/− 1.43 KM**				
DEPTH=33 KM			**+/− 0.09 KM**				
mb(NEIS)=4.7							
STATIONS USED=29, STAND DEV=1.94 SEC							
WMQ	17.2	14	EP	14 18 14.1	− 1.2		
KMI	18.9	91	EP	14 18 37.0	0.8		
GTA	19.3	46	P	14 18 39.7	− 0.9		
GYA	22.2	86	P	14 19 12.2	1.7		
XAN	24.3	67	EP	14 19 32.1	1.4		
BTO	26.8	52	EP	14 19 55.9	1.0		
QZN	27.0	101	EP	14 20 00.7	4.3		
BJI	31.2	56	EP	14 20 35.0	1.5		
CN2	38.7	53	EP	14 21 38.2	0.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 12 5							
O=15 09 31.7			+/− 0.12 SEC				
LAT=31.22 N			+/− 2.20 KM				
LONG=141.46 E			+/− 2.42 KM				
DEPTH=171 KM			+/− 1.90 KM				
mb(NEIS)=4.5							
STATIONS USED=16. STAND DEV=2.12 SEC							
MDJ	16.3	328	EP	15 13 14.7	2.2		
SNY	17.8	311	EP	15 13 30.8	0.6		
CN2	17.8	319	PD	15 13 30.5	0.2		
NJ2	19.3	278	EP	15 13 43.5	− 2.0		
BJI	22.3	300	EP	15 14 17.0	1.2		
BTO	27.0	299	E(P)	15 15 00.9	0.7		
XAN	27.5	284	EP	15 15 01.8	− 2.6		
GTA	34.7	295	P	15 16 08.3	0.7		
1984 12 5							
O=19 06 51.6			+/− 0.03 SEC				
LAT=32.50 N			+/− 0.82 KM				
LONG=141.26 E			+/− 0.82 KM				
DEPTH=21 KM			+/− 0.35 KM				
mb(NEIS)=4.6							
STATIONS USED=15. STAND DEV=0.51 SEC							
CN2	16.8	316	PD	19 10 47.0	0.0		
SNY	16.9	308	EP	19 10 48.8	0.5		
BJI	21.5	297	EP	19 11 42.0	0.2		
XAN	27.0	282	EP	19 12 34.0	− 0.7		
CD2	31.8	277	EP	19 13 17.6	− 0.1		
WMQ	42.9	301	EP	19 14 51.8	0.6		
1984 12 5							
O=19 47 44.2			+/− 0.08 SEC				
LAT=36.29 N			+/− 1.93 KM				
LONG=140.67 E			+/− 1.20 KM				
DEPTH=76 KM			+/− 1.28 KM				
mb(NEIS)=5.0							
STATIONS USED=49, STAND DEV=1.45 SEC							
MDJ	11.8	318	PC	19 50 34.0	2.0		
CN2	13.9	307	PD	19 51 00.0	1.4		
SNY	14.4	297	PD	19 51 06.2	0.8		
NJ2	18.5	263	EP	19 51 56.0	− 1.2		
TIA	19.0	276	PD	19 52 01.2	− 1.3		
TIY	22.6	282	E(P)	19 52 38.4	− 0.8		
BTO	24.3	289	E(P)	19 52 54.7	− 1.6		
XAN	26.0	274	EP	19 53 12.2	0.1		
CD2	31.1	270	P	19 53 58.8	1.0		
GTA	32.2	288	P	19 54 07.0	− 0.8		
KMI	34.3	261	EP	19 54 25.0	− 0.6		
			ES	19 59 27.0	−19.6		
WMQ	40.6	297	P	19 55 20.3	1.4		
1984 12 6							
O=03 45 57.8			+/− 0.13 SEC				
LAT=55.94 S			+/− 3.29 KM				
LONG=27.87 W			+/− 4.32 KM				
DEPTH=99 KM			+/− 0.43 KM				
mb(NEIS)=5.2							
STATIONS USED=19, STAND DEV=2.00 SEC							
XAN	143.2	108	PKP	04 05 18.8	− 2.6		
NJ2	146.7	121	PKPD	04 05 29.6	2.2		
SSE	147.0	125	EPKP	04 05 30.0	2.1		
BTO	148.6	101	EPKP	04 05 34.1	3.5		
TIA	149.2	115	EPKP	04 05 35.5	4.1		
1984 12 6							
O=08 17 40.8			+/− 0.46 SEC				
LAT=23.79 N			+/− 3.75 KM				
LONG=120.61 E			+/− 2.39 KM				
DEPTH=5 KM			+/− 0.39 KM				
ML(CHINA)=3.2 /3							
STATIONS USED=6.STAND DEV=0.88 SEC							
QZH	2.2	302	EPN	08 18 18.3	0.2		
			SG	08 18 57.0	8.2		
			S_mN	ML=2.9		0.5	0.1
			S_mE			0.5	0.09
SSE	7.3	3	EPN	08 19 32.0	1.2		
1984 12 6							
O=08 44 07.4			+/− 0.41 SEC				
LAT=17.35 S			+/− 6.12 KM				
LONG=172.83 W			+/− 3.92 KM				
DEPTH=78 KM			+/− 1.56 KM				
mb(NEIS)=5.1							
STATIONS USED=49. STAND DEV=1.74 SEC							
QZH	78.9	300	EP	08 56 03.0	− 1.8		
			ES	09 05 56.0	0.0		
			S_mE			13.0	0.8
			LE			28.0	0.8
SSE	79.6	307	P	09 56 08.0	− 0.3		
			LE			28.0	0.7
MDJ	80.9	322	PU	08 56 14.0	− 1.5		
			SKS	09 06 28.0	6.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SmN			9.0	1.1
NJ2	81.8	307	PU	08 56 20.0	0.0		
			ES	09 06 30.0	4.2		
			SmN			10.0	0.9
			SmE			10.0	1.1
GZH	82.6	296	EP	08 56 20.0	− 4.1		
			SKS	09 06 45.0	12.1		
			SmE			6.0	0.8
CN2	82.9	320	PU	08 56 24.0	− 1.9		
			PmZ			6.0	0.8
			ES	09 06 34.0	− 3.5		
			SmN			7.0	0.5
			SmE			7.0	0.4
			LN			13.0	0.5
DL2	82.9	314	PU	08 56 26.0	0.1		
			PmZ			4.0	0.7
			ES	09 06 44.0	6.5		
			SmN			8.0	1.0
			SmE			8.0	0.9
			ESKS	09 06 50.0	14.6		
SNY	83.1	317	IPU	08 56 26.0	− 0.7		
			PmZ			10.0	0.7
			AP	08 56 45.0	− 1.9		
			S	09 06 50.0	11.0		
			SmN			12.0	1.5
			SmE			10.0	1.2
QZH	84.1	291	EP	08 56 37.0	4.9		
			S	09 07 02.0	12.4		
			SmE			11.0	0.9
			XS	09 07 22.5	− 2.0		
TIA	84.9	310	PD	08 56 36.8	1.0		
			PmZ			7.0	0.9
			S	09 07 02.5	5.5		
			SmN			11.0	0.6
			SmE			10.0	1.0
TIY	88.9	310	P	08 56 56.0	0.6		
			S	09 07 31.0	− 4.5		
			XS	09 07 58.0	−12.6		
			SmE			12.0	0.9
GYA	89.4	297	P	08 57 00.0	2.1		
			E	09 07 35.0	− 5.3		
XAN	90.2	305	PD	08 57 02.8	1.3		
HHC	90.7	312	EP	08 57 04.0	− 0.1		
BTO	91.7	312	EP	08 57 10.0	1.3		
KMI	92.4	295	PC	08 57 14.0	2.4		
			XP	08 57 27.0	−13.5		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			PP	09 01 03.0	8.8		
			ESKS	09 07 45.0	10.2		
			S	09 08 20.0	13.5		
			SmE			10.0	1.0
			LE			18.0	0.9
CD2	93.3	301	EP	08 57 17.3	1.6		
GTA	98.8	308	IPD	08 57 41.6	0.7		

1984 12 6

O = 23 44 09.5 +/− 0.08 SEC
LAT = 18.68 N +/− 1.58 KM
LONG = 146.59 E +/− 1.81 KM
DEPTH = 62 KM +/− 0.28 KM
mb(NEIS) = 5.1
STATIONS USED = 35, STAND DEV = 1.24 SEC

MDJ	29.5	334	EP	23 50 10.5	0.0	
CN2	30.7	329	EP	23 50 22.5	1.4	
XAN	36.8	302	E(P)	23 51 11.2	− 2.6	
HHC	37.2	313	EP	23 51 16.6	− 0.6	
BTO	38.2	312	EP	23 51 24.1	− 1.1	
CD2	40.5	295	(P)	23 51 45.4	0.9	
GTA	45.2	307	P	23 52 23.4	0.4	
WMQ	55.0	310	P	23 53 36.5	− 0.7	

1984 12 7

O = 01 25 13.8 +/− 0.11 SEC
LAT = 10.47 N +/− 0.92 KM
LONG = 125.32 E +/− 2.03 KM
DEPTH = 48 KM +/− 0.99 KM
Ms(CHINA) = 4.2/2, mb(NEIS) = 4.9
STATIONS USED = 19, STAND DEV = 1.18 SEC

NJ 2	22.3	345	EP	01 30 10.6	1.9	
			LE	Ms = 4.2	11.0	0.5
WHN	22.4	334	EP	01 30 11.5	1.5	
GYA	23.7	314	EP	01 30 24.0	1.0	
TIA	26.7	345	EP	01 30 49.2	− 1.5	
			LE	Ms = 4.2	12.0	0.4
XAN	27.9	329	P	01 31 00.0	− 1.5	
CD2	28.5	318	IPD	01 31 07.1	− 0.5	
BJI	30.5	346	EP	01 31 24.5	− 0.9	
SNY	31.3	357	EP	01 31 31.8	0.0	
CN2	33.2	0	EP	01 31 47.0	− 1.7	
GTA	36.7	326	IPC	01 32 19.0	0.4	

1984 12 7

O = 04 18 52.4 +/− 0.14 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=3.51 N			**+/− 1.84 KM**				
LONG=97.17 E			**+/− 1.60 KM**				
DEPTH=114 KM			**+/− 0.64 KM**				
mb(NEIS)=4.6							
STATIONS USED=18. STAND DEV=1.48 SEC							
QZN	19.8	37	EP	04 23 13.6	− 2.5		
KMI	22.1	13	EP	04 23 42.5	2.4		
GYA	24.6	20	EP	04 24 06.0	2.6		
CD2	28.0	12	EP	04 24 34.4	− 0.2		
XAN	32.3	18	P	04 25 12.0	− 0.9		
GTA	35.8	3	IPC	04 25 42.9	− 0.3		
BII	40.2	22	(P)	04 26 22.0	2.3		
1984 12 7							
O=04 50 14.0			**+/− 0.10 SEC**				
LAT=0.36 N			**+/− 1.90 KM**				
LONG=125.32 E			**+/− 2.99 KM**				
DEPTH=34 KM			**+/− 0.01 KM**				
Ms(CHINA)=4.7/14, Msz(NEIS)=5.0, mb(NEIS)=5.5							
STATIONS USED=76. STAND DEV=1.71 SEC							
QZN	24.0	321	P	04 55 26.0	− 0.5		
			PPP	04 56 15.5			
			S	04 59 44.0	5.7		
			XS	05 00 06.0	12.7		
			SS	05 00 49.0	20.0		
			LN	Ms=4.7		16.0	1.8
			LE			17.0	1.2
QZH	25.3	345	EP	04 55 41.0	1.8		
			ES	05 00 06.0	5.5		
			LE	Ms=4.3		10.0	0.5
GZH	25.4	333	PD	04 55 42.0	1.6		
			S	05 00 07.0	4.4		
			LN	Ms=4.6		24.0	2.3
SSE	30.8	353	P	04 56 28.0	− 1.3		
			S	05 01 28.0	− 1.5		
			LN	Ms=5.2		24.0	2.2
			LE			24.0	6.8
GYA	31.6	326	EP	04 56 37.4	1.4		
			XP	04 56 55.0	5.6		
			S	05 01 37.0	− 4.5		
WHN		341	P	04 56 39.4	1.6		
NJ2	32.1		EP	04 56 40.8	0.1		
				05 01 48.0	− 1.8		
			LN	M=4.5		10.0	0.5
KMI	32.9	320	EP	04 56	2.7		
			P_mZ			1.0	0.6
			AP	04 57 02.5	5.5		
			ES	05 02 03.0	0.4		
			LN	Ms=4.6		20.0	1.3
TIA	36.5	348	EP	04 57 17.5	− 0.7		
			XP	04 57 36.5	4.7		
			PP	04 58 48.0	6.1		
			PCP	04 59 42.7	1.3		
			S	05 02 51.0	− 6.5		
			LN	Ms=5.1		27.0	3.9
CD2	36.6	328	EP	04 57 19.6	0.1		
			XP	04 57 38.0	4.9		
			PP	04 58 49.0	4.8		
			ES	05 02 50.0	−10.0		
			EXS	05 03 26.0	10.4		
XAN	36.9	336	EP	04 57 20.8	− 0.7		
			(S)	05 02 55.0	− 8.6		
			LN	Ms=4.8		17.0	1.5
DL2	38.5	355	EP	04 57 36.0	0.8		
			ES	05 03 26.0	− 2.5		
			LN	Ms=4.7		20.0	1.2
LZH	40.8	332	PC	04 57 55.5	1.4		
			P_mZ			1.5	0.2
SNY	41.3	358	PU	04 57 58.0	− 0.4		
			XP	04 58 16.0	3.8		
			S	05 04 08.0	− 2.5		
			LN	Ms=4.8		22.0	0.8
			LE			22.0	1.2
HHC	42.2	344	EP	04 58 06.0	0.2		
BTO	42.4	342	EP	04 58 07.8	0.3		
CN2	43.2	0	PD	04 58 14.2	− 0.2		
			P_mZ			3.0	0.3
			AP	04 58 27.0	3.0		
			PCP	05 00 04.0	1.0		
			SCP	05 03 49.0	− 1.2		
			ES	05 04 38.0	− 1.0		
			SCS	05 08 08.0	− 0.6		
			LE	Ms=4.6		16.0	0.6
MDJ	44.2	4	EP	04 58 22.8	0.5		
			XP	04 58 42.0	6.0		
			S	05 04 44.0	− 9.3		
GTA	45.3	332	IPD	04 58 31.6	0.4		
WMQ	54.7	327	P	04 59 41.7	− 1.2		
			P_mZ			1.0	0.3
			S	05 07 19.0	− 0.8		
1984 12 7							

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
O=09 02 35.6			+/− 0.16 SEC				
LAT=14.94 N			+/− 2.85 KM				
LONG=144.25 E			+/− 3.77 KM				
DEPTH=32 KM			+/− 0.30 KM				
Msz(NEIS)=4.8, mb(NEIS)=4.8							
STATIONS USED=23, STAND DEV=2.26 SEC							
SSE	26.5	311	EP	09 08 12.5	− 0.2		
			ES	09 12 48.0	4.8		
BJI	35.0	320	EP	09 09 26.5	− 1.1		
XAN	37.1	307	P	09 09 44.3	− 1.0		
CD2	40.3	300	EP	09 10 12.0	0.1		
LZH	41.7	307	EP	09 10 24.0	0.2		
WMQ	55.8	313	P	09 12 12.4	− 0.1		
1984 12 7							
O=10 21 39.0			+/− 0.16 SEC				
LAT=37.30 N			+/− 1.80 KM				
LONG=102.73 E			+/− 1.70 KM				
DEPTH=32 KM			+/− 0.06 KM				
Ms(CHINA)=4.7/18, mb(NEIS)=4.6, ML(CHINA)=4.8/13							
STATIONS USED=45, STAND DEV=2.79 SEC							
LZH	1.5	143	IPNC	10 22 04.5	0.3		
			SG	10 22 25.5	− 1.6		
			S_mN			6.0	15.8
			S_mE			6.0	23.3
GTA	3.1	313	PN	10 22 27.9	0.7		
			PG	10 22 31.3	− 4.7		
			SG	10 23 10.1	6.2		
			S_mN	ML=5.1		1.5	6.5
			S_mE			2.0	6.5
XAN	6.0	121	EPN	10 23 07.0	− 0.9		
			PG	10 23 27.0	− 1.5		
			SG_1	10 24 45.0	− 2.1		
			LG_2	10 24 50.5	− 6.4		
			LN	Ms=4.7		9.0	4.6
			LE			8.0	5.3
CD2	6.4	172	EPN	10 23 15.2	1.1		
			PG	10 23 39.0	2.6		
			SG	10 25 04.0	3.3		
			LE	Ms=4.9		7.0	7.5
BTO	6.6	57	EPN	10 23 15.8	− 0.2		
			PG	10 23 39.1	0.3		
			SG	10 25 02.0	− 2.8		
			S_mN	ML=4.8		1.0	0.6
			S_mE			1.0	0.4
TIY	7.7	84	EPN	10 23 31.8	− 0.4		
			PG	10 24 00.0	0.1		
			SG	10 25 37.4	− 3.7		
			S_mN	ML=5.0		0.8	0.6
			S_mE			0.8	0.4
HHC	7.7	60	EPN	10 23 32.4	0.1		
			PG	10 24 01.0	1.0		
			SG	10 25 41.0	− 0.3		
			S_mN	ML=5.1		0.6	0.6
			S_mE			0.6	0.5
GYA	11.3	161	P	10 24 20.0	− 1.8		
			S	10 26 29.6	1.3		
			LG_1	10 27 42.4	8.0		
			LG_2	10 28 01.6	9.3		
			LN	Ms=4.6		8.0	0.9
			LE			8.0	1.9
TIA	11.6	91	EP	10 24 25.0	− 0.5		
			ES	10 26 35.5	0.4		
			ELG_2	10 27 52.0	− 9.8		
			LN	Ms=4.4		10.0	1.3
			LE			10.0	1.4
WHN	11.8	121	EP	10 24 30.0	2.3		
			LG_1	10 27 51.0	2.4		
			LE	Ms=4.5		9.0	2.0
KMI	12.1	179	EP	10 24 34.0	0.9		
			ES	10 26 49.0	0.4		
			LE	Ms=4.6		10.0	2.5
WMQ	13.1	304	EP	10 24 46.0	− 0.4		
			LG_1	10 28 26.0	− 6.0		
			LG_2	10 28 38.0	−14.8		
			LN	Ms=4.7		11.0	3.0
NJ2	14.3	106	EP	10 24 57.8	− 3.1		
			LN	Ms=4.8		12.0	3.8
			LE			12.0	1.6
SNY	16.7	67	EP	10 25 33.6	1.4		
			LG_2	10 30 53.0	3.3		
			LN	Ms=4.5		12.0	1.2
			LE			10.0	0.9
GZH	16.9	144	EP	10 25 33.5	− 0.8		
			S	10 28 40.0	0.3		
			LN	Ms=5.0		10.0	2.5
			LE			10.0	3.9
CN2	18.4	62	EP	10 25 52.5	− 1.3		
			ES	10 29 14.0	−12.6		
			LG_1	10 31 10.0	− 7.5		
			LG_2	10 31 39.0	− 7.6		
			LN	Ms=4.6		12.0	1.9

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	19.2	159	EP	10 26 05.2	1.6		
			ES	10 29 42.5	8.9		
			XS	10 29 52.0	6.5		
			LG_1	10 32 01.5	18.1		
			LG_2	10 32 13.5	− 0.4		
			LN	Ms=4.6		11.0	1.8
MDJ	21.5	61	EP	10 26 28.0	0.6		

1984 12 7
O=12 51 43.3 +/− 0.27 SEC
LAT=10.46 N +/−12.47 KM
LONG=124.53 E +/−10.75 KM
DEPTH=33 KM +/− 6.70 KM
Ms(CHINA)=4.2/1, mb(NEIS)=4.7
STATIONS USED=10, STAND DEV=4.76 SEC

WHN	22.1	336	E(P)	12 56 43.0	5.3
NJ 2	22.1	347	EP	12 56 38.6	0.9
CD2	28.0	319	EP	12 57 39.8	5.8
BJI	30.4	347	(P)	12 58 01.0	6.2
GTA	36.3	326	EP	12 58 51.6	5.6

1984 12 7
O=13 38 30.8 +/− 0.06 SEC
LAT=5.99 S +/− 0.76 KM
LONG=131.52 E +/− 1.64 KM
DEPTH=69 KM +/− 0.39 KM
mb(NEIS)=4.7
STATIONS USED=15, STAND DEV=1.12 SEC

XAN	45.2	333	P	13 46 42.4	− 0.8
BJI	47.9	344	EP	13 47 02.0	− 2.7
CN2	49.9	354	EP	13 47 19.0	− 0.6
GTA	53.8	329	EP	13 47 50.6	1.0

1984 12 7
O=15 54 37.6 +/− 0.14 SEC
LAT=37.08 N +/− 1.40 KM
LONG=102.39 E +/− 1.34 KM
DEPTH=0 KM +/− 0.07 KM
ML(CHINA)=3.3/5
STATIONS USED=5, STAND DEV=2.22 SEC

LZH	1.5	129	PN	15 55 05.5	− 1.1		
			SN	15 55 27.5	− 0.3		
			S_mN	ML=3.3		0.5	0.3
			S_mE			0.6	0.4
GTA	3.1	319	PN	15 55 31.4	2.6		
			PG	15 55 35.5	1.6		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SG	15 56 12.9	− 1.3		
			S_mE	ML=3.4		0.8	0.1
XAN	6.1	117	EPG	15 56 28.6	− 0.8		

1984 12 7
O=16 27 53.9 +/− 0.20 SEC
LAT=51.55 N +/− 9.77 KM
LONG=170.73 W +/− 4.01 KM
DEPTH=35 KM +/− 1.89 KM
Ms(CHINA)=4.5/1, Msz(NEIS)=4.3,
mb(NEIS)=4.9
STATIONS USED=56, STAND DEV=3.58 SEC

CN2	42.4	285	EP	16 35 46.4	− 1.0		
SNY	44.7	284	IPD	16 36 06.2	0.5		
			ES	16 42 39.0	− 0.5		
			EXS	16 42 56.0	0.1		
			LN	Ms=4.5		22.0	0.4
			LE			22.0	0.5
TIA	52.1	282	PC	16 37 02.5	− 0.8		
HHC	52.4	290	E(P)	16 37 06.0	0.2		
BTO	53.5	291	EP	16 37 14.0	0.3		
NJ 2	53.8	277	PD	16 37 15.6	− 0.5		
WHN	57.6	279	EP	16 37 43.5	− 0.1		
XAN	58.5	286	PC	16 37 49.0	− 0.8		
GTA	60.1	296	P	16 38 00.0	− 0.9		
LZH	60.1	291	EP	16 38 05.0	4.1		
WMQ	63.4	307	P	16 38 22.4	− 0.3		
CD2	63.8	287	IPC	16 38 26.0	0.4		
GYA	65.3	281	P	16 38 35.6	0.4		
KMI	68.7	283	PC	16 38 56.0	− 0.6		

1984 12 7
O=22 34 01.0 +/− 0.04 SEC
LAT=37.29 N +/− 0.54 KM
LONG=102.66 E +/− 0.41 KM
DEPTH=0 KM +/− 0.01 KM
ML(CHINA)=3.6/8
STATIONS USED=5, STAND DEV=0.79 SEC

LZH	1.5	141	EPN	22 34 29.5	− 0.4		
			ESN	22 34 53.5	2.4		
			S_mN	ML=3.7		1.0	0.9
			S_mE			1.0	0.9
GTA	3.1	314	PN	22 34 52.6	0.6		
			PG	22 34 57.6	0.5		
			SG	22 35 36.6	− 0.8		
			S_mN	ML=3.5		0.8	0.2

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CD2	6.4	171	PG	22 36 04.5	6.2		
BTO	6.6	57	EPG	22 35 57.8	− 3.8		
			ESG	22 37 28.4	0.1		
			S_mN	ML=3.6		1.0	0.04
			S_mE			1.0	0.02
HHC	7.8	60	EPG	22 36 24.6	1.7		
			SG	22 38 02.6	− 2.2		
			S_mN	ML=3.7		0.6	0.03
			S_mE			0.6	0.02

1984 12 8
O=10 35 12.0 +/− 0.11 SEC
LAT=36.41 N +/− 2.28 KM
LONG=70.80 E +/− 1.45 KM
DEPTH=173 KM +/− 0.23 KM
mb(NEIS)=4.9
STATIONS USED=56, STAND DEV=1.49 SEC

WMQ	14.9	55	P	10 38 32.8	− 2.5		
			S	10 41 18.0	2.1		
			LE			5.0	1.7
GTA	23.0	73	IPC	10 40 05.0	1.7		
LZH	26.6	80	EP	10 40 36.7	0.3		
			P_mZ			2.0	0.1
CD2	27.9	91	IPC	10 40 49.0	0.8		
KMI	29.5	103	EP	10 41 02.5	− 0.5		
BTO	30.8	70	P	10 41 14.5	0.4		
XAN	31.1	82	PC	10 41 15.9	− 0.7		
HHC	31.9	69	EP	10 41 24.4	0.3		
GYA	32.0	97	P	10 41 24.6	− 0.1		
TIY	33.1	75	P	10 41 33.8	0.2		
WHN	36.6	86	EP	10 42 04.0	0.9		
TIA	37.0	76	PC	10 42 07.6	0.3		
QZN	38.3	106	EP	10 42 11.0	− 7.2		
GZH	38.9	97	PD	10 42 24.2	1.1		
NJ2	39.6	81	PC	10 42 29.5	0.7		
CN2	41.8	62	PC	10 42 45.0	− 1.5		
SSE	41.8	82	PC	10 42 47.0	0.1		
			P_mZ			1.5	0.1

1984 12 8
O=14 54 04.5 +/− 0.11 SEC
LAT=5.38 N +/− 1.32 KM
LONG=125.50 E +/− 1.82 KM
DEPTH=192 KM +/− 0.88 KM
mb(NEIS)=5.4
STATIONS USED=35, STAND DEV=1.23 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	20.4	312	EP	14 58 29.8	1.3		
			S	15 02 12.0	10.7		
			SS	15 03 23.5	27.8		
QZH	20.6	341	EP	14 58 31.0	1.3		
GZH	21.2	327	EP	14 58 37.0	1.3		
SSE	25.9	351	EP	14 59 21.0	0.1		
			XS	15 04 46.0	3.9		
			LN			24.0	1.5
WHN	27.1	338	EP	14 59 33.0	0.8		
NJ2	27.3	347	PD	14 59 33.0	− 0.2		
			PCP	15 02 49.2	1.5		
GYA	27.6	321	P	14 59 37.4	0.7		
			PCP	15 02 49.8	1.2		
KMI	29.4	314	PD	14 59 53.0	0.7		
			AP	15 00 32.5	1.7		
TIA	31.6	347	PD	15 00 11.0	− 1.0		
			PCP	15 03 00.0	1.1		
XAN	32.4	333	IPD	15 00 17.8	− 0.9		
CD2	32.6	323	EP	15 00 20.6	0.2		
DL2	33.6	354	P	15 00 28.4	− 0.1		
TIY	34.3	341	P	15 00 34.6	− 0.5		
SNY	36.3	357	IPD	15 00 52.2	0.2		
LZH	36.5	329	IPD	15 00 54.5	1.1		
			P_mZ			1.0	0.2
HHC	37.5	342	IPC	15 01 02.1	0.5		
BTO	37.7	340	EP	15 01 03.1	− 0.7		
CN2	38.3	359	PD	15 01 07.8	− 0.8		
			PCP	15 03 19.0	0.8		
			ES	15 06 48.0	0.2		
			SCP	15 06 49.4	3.2		
			XS	15 07 54.0	− 4.8		
			SCS	15 11 00.0	4.6		
MDJ	39.2	4	PD	15 01 17.4	1.1		
			PCP	15 03 21.5	0.2		
			S	15 07 06.0	3.6		
GTA	41.1	329	IPD	15 01 32.0	0.6		
WMQ	50.7	325	IPD	15 02 45.1	− 1.8		

1984 12 8
O=18 27 13.4 +/− 0.16 SEC
LAT=19.22 N +/− 2.08 KM
LONG=121.11 E +/− 2.11 KM
DEPTH=23 KM +/− 0.40 KM
Ms(CHINA)=4.2/16, mb(NEIS)=4.7,
ML(CHINA)=4.0/4
STATIONS USED=60, STAND DEV=2.03 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZH	6.2	338	EPN	18 28 43.6	− 1.8		
			ESN	18 29 50.5	− 5.6		
			S_mN	ML=3.7		0.4	0.05
			S_mE			0.3	0.06
			LE	Ms=3.7		32.0	2.2
GZH	8.2	299	EP	18 29 10.8	− 3.3		
			S	18 30 39.8	− 7.4		
			LE	Ms=4.2		13.0	2.2
QZN	10.6	270	P	18 29 44.0	− 3.9		
			S	18 31 39.8	− 8.0		
			LE	Ms=4.1		14.0	1.5
WHN	12.8	332	EP	18 30 16.0	− 1.4		
			LN	Ms=4.2		12.0	1.2
NJ2	12.9	351	EP	18 30 20.0	1.1		
			LE	Ms=3.7		12.0	0.4
GYA	15.1	301	P	18 30 47.8	0.0		
			XP	18 30 55.0	− 3.1		
			S	18 33 34.0	− 1.8		
			LN	Ms=4.4		12.0	0.8
			LE			12.0	1.1
TIA	17.3	349	EP	18 31 18.5	3.3		
			ES	18 34 34.0	4.2		
			LN	Ms=4.2		16.0	0.9
			LE			23.0	0.8
KMI	18.0	292	PU	18 31 25.0	0.8		
			ES	18 34 27.0	−29.4		
			XS	18 34 48.0	−17.9		
			LE	Ms=4.6		15.0	2.3
XAN	18.3	326	P	18 31 29.6	1.5		
			PP	18 31 47.0	4.3		
			ES	18 34 57.5	− 1.5		
			SS	18 35 10.0	− 1.8		
			LN	Ms=4.4		13.0	0.9
			LE			15 0	1.2
CD2	19.5	309	IP	18 31 42.9	0.6		
			XP	18 31 52.0	− 1.1		
			(S)	18 35 15.0	− 1.1		
			EXS	18 35 24.0	− 1.6		
TIY	19.9	339	EP	18 31 48.0	1.2		
			S	18 35 32.0	7.1		
			LN	Ms=4.4		13.0	1.2
SNY	22.6	4	IPD	18 32 15.5	1.2		
			S	18 36 16.0	− 0.4		
			LE	Ms=4.3		15.0	0.8
LZH	22.7	321	PD	18 32 16.5	1.8		
			P_mZ			1.5	0.09
HHC	23.1	341	EP	18 32 21.0	2.4		
			S	18 36 28.0	3.7		
			LN	Ms=4.3		12.0	0.7
BTO	23.3	338	EP	18 32 22.9	1.6		
CN2	24.8	7	PD	18 32 35.4	0.2		
			AP	18 32 41.4	− 1.2		
			ES	18 36 54.0	0.2		
			LE	Ms=4.3		15.0	0.7
MDJ	26.3	13	EP	18 32 48.5	− 1.0		
GTA	27.3	322	IPD	18 32 59.2	0.8		
WMQ	37.2	318	P	18 34 24.0	− 1.1		

1984 12 8
O=21 10 56.1 +/− 0.06 SEC
LAT=5.65 S +/− 0.75 KM
LONG=149.32 E +/− 1.23 KM
DEPTH=127 KM +/− 0.50 KM
mb(NEIS)=5.5
STATIONS USED=77, STAND DEV=0.97 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZH	42.6	316	IPR	21 18 43.0	1.1		
			XP	21 19 25.0	− 0.2		
			S	21 24 59.0	3.8		
			XS	21 25 49.0	4.1		
			LE			40.0	3.4
SSE	45.4	325	PR	21 19 04.0	0.2		
			P_mZ			2.0	0.5
			AP	21 19 33.0	0.6		
			XP	21 19 47.0	− 0.2		
			S	21 25 36.0	1.5		
			XS	21 26 26.0	1.2		
			LE			32.0	1.9
QZN	46.0	303	EP	21 19 08.6	0.0		
			AP	21 19 32.0	− 5.3		
			XP	21 19 53.5	1.5		
			PP	21 21 04.5	6.3		
			ES	21 25 47.5	4.3		
			XS	21 26 34.0	0.5		
			SS	21 29 02.0	− 0.2		
NJ2	47.4	324	IPR	21 19 21.0	1.1		
			P_mZ			5.0	0.7
			AP	21 19 51.0	2.3		
			XP	21 20 03.0	− 0.4		
			PP	21 21 15.0	2.7		
			PP_mZ			5.0	0.4
			S	21 26 06.0	2.5		
			S_mE			9.0	0.7

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
WHN	49.1	319	EP	21 19 35.5	2.2		
DL2	51.2	332	P	21 19 50.5	1.4		
			AP	21 20 18.0	− 0.3		
			ES	21 27 00.0	3.5		
			XS	21 27 55.0	7.4		
TIA	51.4	326	PC	21 19 50.8	0.1		
			XP	21 20 34.0	− 0.4		
			PP	21 21 48.0	− 2.0		
			S	21 27 02.0	2.6		
			LN			33.0	1.8
			LE			28.0	1.2
GYA	52.2	309	P	21 19 58.0	1.3		
			AP	21 20 27.6	1.7		
			XP	21 20 44.0	3.6		
			S	21 27 17.0	6.7		
			XS	21 28 08.0	6.7		
SNY	52.8	335	IPR	21 20 00.0	− 0.7		
			P_mZ			8.0	1.0
			AP	21 20 32.0	1.9		
			XP	21 20 45.0	0.4		
			S	21 27 18.0	0.3		
			XS	21 28 13.0	4.0		
MDJ	53.1	342	EP	21 20 03.5	0.4		
			AP	21 20 33.5	1.1		
			XP	21 20 46.5	− 0.5		
			S	21 27 24.0	2.0		
CN2	53.7	338	PD	21 20 07.4	− 0.4		
			P_mN			4.0	0.3
			P_mZ			4.0	0.7
			AP	21 20 37.5	0.2		
			XP	21 20 50.0	− 1.8		
			ES	21 27 30.0	− 0.8		
			S_mN			7.0	0.5
			XS	21 28 22.0	− 0.1		
			ESS	21 31 12.0	0.9		
KMI	54.6	306	EP	21 20 14.5	− 0.1		
			AP	21 20 44.0	0.1		
			S	21 27 48.0	4.7		
			S_mE			10.0	0.3
XAN	54.9	318	P	21 20 15.0	− 1.5		
			XP	21 20 59.0	− 1.4		
			S	21 27 45.0	− 1.6		
			S_mE			9.0	0.4
			XS	21 28 38.5	0.4		
TIY	55.1	324	P	21 20 18.4	0.3		
			XP	21 21 03.0	0.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	21 27 54.0	4.4		
			S_mE			9.0	0.6
			XS	21 28 48.0	6.9		
CD2	56.7	312	P	21 20 29.0	− 0.3		
			AP	21 21 04.0	5.0		
			(S)	21 28 08.0	− 2.5		
			XS	21 29 00.6	− 1.6		
			LN			23.0	1.0
HHC	57.8	326	P	21 20 37.4	0.5		
BTO	58.5	325	EP	21 20 42.3	0.6		
LZH	59.5	317	EP	21 20 49.5	0.8		
			P_mZ			1.5	0.2
GTA	64.0	319	P	21 21 19.8	1.0		
WMQ	74.0	318	P	21 22 19.1	− 1.6		
			P_mZ			2.0	0.2
			AP	21 22 48.5	− 3.1		
			ES	21 31 43.0	1.1		
			PS	21 32 38.0			

1984 12 8

O=22 15 36.7 +/− 0.07 SEC
LAT=39.58 N +/− 0.63 KM
LONG=118.92 E +/− 0.70 KM
DEPTH=13 KM +/− 0.03 KM
ML(CHINA)=3.3/11
STATIONS USED=8, STAND DEV=1.00 SEC

BJI	2.2	283	EPN	22 16 13.5	0.4		
			ESN	22 16 34.5	− 5.7		
			ESG	22 16 38.5	− 6.0		
			S_mN	ML=3.5		0.5	0.3
			S_mE			0.5	0.3
TIA	3.7	203	PN	22 16 34.7	0.3		
			SN	22 17 16.7	− 1.5		
			SG	22 17 31.8	0.6		
			S_mN	ML=2.8		0.3	0.02
			S_mE			0.3	0.03
SNY	4.2	56	EPG	22 16 53.4	0.2		
			SG	22 17 51.0	3.9		
			S_mN	ML=3.2		0.6	0.05
			S_mE			0.6	0.05
CN2	6.5	47	EPG	22 17 36.4	2.0		
			SG	22 19 02.0	3.1		
			S_mN	ML=3.5		1.0	0.03
			S_mE			1.0	0.02

1984 12 8

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
O=23 46 58.7			**+/− 0.11 SEC**				
LAT=24.19 N			**+/− 1.41 KM**				
LONG=94.57 E			**+/− 1.13 KM**				
DEPTH=106 KM			**+/− 0.53 KM**				
mb(NEIS)=4.2, ML(CHINA)=4.2/2							
STATIONS USED=15, STAND DEV=1.56 SEC							
KMI	7.5	81	EP	23 48 48.0	0.8		
XAN	15.9	48	EP	23 50 37.4	− 0.6		
WHN	18.7	65	P	23 51 11.0	− 0.1		
WMQ	20.4	345	P	23 51 30.0	0.6		
NJ2	22.8	64	IPD	23 51 53.0	0.0		
TIA	22.8	53	EP	23 51 54.3	0.8		
SSE	24.5	67	PD	23 52 10.5	0.6		
1984 12 9							
O=03 01 11.4			**+/− 0.13 SEC**				
LAT=36.51 N			**+/− 1.75 KM**				
LONG=139.49 E			**+/− 0.58 KM**				
DEPTH=17 KM			**+/− 2.51 KM**				
mb(NEIS)=4.8							
STATIONS USED=18, STAND DEV=2.18 SEC							
MDJ	11.0	320	EP	03 03 51.2	− 0.9		
CN2	13.0	308	PC	03 04 18.2	0.2		
			ESS	03 07 09.0	11.6		
			LN			13.0	0.5
SNY	13.4	298	EP	03 04 24.1	0.0		
SSE	16.1	255	EP	03 05 01.5	2.1		
NJ2	17.6	261	EP	03 05 18.0	0.0		
TIA	18.0	275	PD	03 05 22.1	− 0.9		
BJI	18.6	287	EP	03 05 27.5	− 3.1		
1984 12 9							
O=07 15 12.5			**+/− 0.07 SEC**				
LAT=18.82 N			**+/− 2.28 KM**				
LONG=145.00 E			**+/− 1.53 KM**				
DEPTH=33 KM			**+/− 0.64 KM**				
mb(NEIS)=4.4							
STATIONS USED=33, STAND DEV=1.05 SEC							
SSE	24.7	304	E(P)	07 20 32.0	− 0.6		
			(S)	07 24 56.0	5.9		
NJ2	27.0	304	EP	07 20 55.4	2.1		
MDJ	28.8	336	EP	07 21 10.3	0.7		
CN2	29.8	330	E(P)	07 21 23.0	3.8		
TIA	30.0	310	EP	07 21 22.4	1.5		
XAN	35.5	302	P	07 22 08.8	0.4		
HHC	36.0	314	EP	07 22 12.8	− 0.5		
GYA	36.1	289	P	07 22 13.8	0.2		
BTO	37.0	313	EP	07 22 21.0	− 0.2		
CD2	39.1	296	EP	07 22 39.2	0.4		
KMI	39.6	286	PC	07 22 44.0	1.1		
WMQ	53.7	310	P	07 24 33.6	− 0.7		
1984 12 9							
O=10 15 15.0			**+/− 0.20 SEC**				
LAT=44.30 N			**+/− 3.00 KM**				
LONG=100.27 E			**+/− 1.67 KM**				
DEPTH=26 KM			**+/− 0.31 KM**				
ML(CHINA)=5.0/2							
STATIONS USED=11, STAND DEV=3.45 SEC							
GTA	4.9	184	EPN	10 16 30.1	0.9		
			LG_1	10 17 54.2	5.3		
			LG_2	10 18 05.8	9.1		
			LN			1.0	0.1
BTO	8.1	113	EP	10 17 17.3	3.2		
HHC	9.0	108	EP	10 17 21.1	− 5.7		
WMQ	9.1	271	EP	10 17 27.6	0.1		
			LG_1	10 19 50.5	− 9.4		
			LE			2.0	0.5
1984 12 9							
O=16 45 10.0			**+/− 0.11 SEC**				
LAT=42.18 N			**+/− 1.30 KM**				
LONG=86.66 E			**+/− 0.90 KM**				
DEPTH=40 KM			**+/− 0.46 KM**				
Ms(CHINA)=3.9/1, mb(NEIS)=4.4							
STATIONS USED=6, STAND DEV=1.93 SEC							
WMQ	1.8	24	IPD	16 45 42.0	2.8		
			S	16 46 06.5	5.4		
GTA	10.4	101	P	16 47 36.6	− 2.8		
1984 12 9							
O=19 39 58.4			**+/− 0.05 SEC**				
LAT=37.18 N			**+/− 1.34 KM**				
LONG=116.4 W			**+/− 1.14 KM**				
DEPTH=40 KM			**+/− 0.42 KM**				
Msz(NEIS)=4.2, mb(NEIS)=5.5							
STATIONS USED=54, STAND DEV=1.02 SEC							
MDJ	79.1	318	EP	19 52 05.0	− 1.6		
CN2	81.8	319	PC	19 52 20.0	− 1.1		
SNY	84.2	319	IPD	19 52 34.2	1.0		
HHC	90.8	325	IPD	19 53 06.1	0.9		
BTO	91.7	326	EP	19 53 09.5	0.2		

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TIA	91.7	319	P	19 53 09.3	− 0.1		
TIY	92.9	323	EP	19 53 15.0	0.1		
SSE	93.3	313	PD	19 53 19.5	2.7		
			P_mZ			1.0	0.03
NJ2	93.9	315	PD	19 53 20.0	0.4		
GTA	96.8	332	IPC	19 53 33.1	0.2		
XAN	97.5	323	P	19 53 36.0	0.0		

1984 12 9

O=20 32 48.0 +/− 0.10 SEC
LAT=9.37 S +/− 1.69 KM
LONG=116.73 E +/− 2.23 KM
DEPTH=32 KM +/− 0.15 KM
mb(NEIS)=5.0
STATIONS USED=24, STAND DEV=1.67 SEC

KMI	36.9	338	EP	20 39 58.5	2.5		
WHN	39.7	356	EP	20 40 22.0	2.4		
NJ2	41.2	2	PD	20 40 34.0	2.1		
			SCP	20 46 13.5	− 3.0		
CD2	41.9	343	IPD	20 40 38.6	0.8		
XAN	43.8	350	P	20 40 53.0	0.0		
BJI	49.2	359	EP	20 41 34.0	− 1.2		
GTA	51.0	343	IPD	20 41 49.6	0.1		
CN2	53.5	7	EP	20 42 05.0	− 3.0		
WMQ	59.1	335	EP	20 42 46.3	− 2.2		

1984 12 9

O=22 07 02.2 +/− 0.13 SEC
LAT=53.79 N +/− 1.83 KM
LONG=108.82 E +/− 2.37 KM
DEPTH=38 KM +/− 0.32 KM
Ms(CHINA)=4.8/17, Msz(NEIS)=4.5, mb(NEIS)=4.9
STATIONS USED=43, STAND DEV=2.73 SEC

HHC	13.1	170	EP	22 10 07.2	− 1.2		
			ES	22 12 31.0	− 2.8		
			LN	Ms=4.8		9.0	3.7
BTO	13.2	176	EP	22 10 10.2	− 0.1		
			LG	22 14 01.0			
			LN	Ms=5.0		9.0	4.9
			LE			9.0	1.0
CN2	14.8	125	EP	22 10 32.0	1.2		
			ES	22 13 12.0	− 2.4		
			LG	22 14 55.0			
			LN	Ms=4.9		9.0	3.3
GTA	15.6	206	P	22 10 39.9	− 1.9		
			LG	22 15 21.0			
			LN	Ms=4.6		10.0	1.7
MDJ	16.3	115	EP	22 10 56.0	5.5		
			S	22 14 00.0	9.8		
			LG_1	22 15 50.0	14.7		
			LN	Ms=4.7		12.0	3.0
WMQ	17.1	242	P	22 10 58.5	− 1.2		
			LG	22 15 45.0			
			LE			2.5	1.1
LZH	18.0	193	EP	22 11 12.0	− 0.1		
TIA	18.5	158	EP	22 11 16.0	− 1.7		
			S	22 14 46.5	− 2.1		
			LN	Ms=4.8		12.5	2.2
			LE			12.0	1.7
XAN	19.7	179	EP	22 11 30.6	− 1.3		
			LG	22 17 28.0			
			LN	Ms=4.7		12.0	1.9
			LE			8.0	0.8
NJ2	22.9	157	EP	22 12 07.0	3.2		
			ES	22 16 07.0	0.2		
			LN	Ms=4.6		11.0	1.2
CD2	23.2	191	P	22 12 07.4	0.9		
			(S)	22 16 07.0	− 4.6		
			LE	Ms=4.8		9.0	1.4
WHN	23.6	167	EP	22 12 11.5	1.1		
			LE	Ms=4.9		8.0	1.7
SSE	24.4	153	EP	22 12 16.0	− 2.2		
			XS	22 16 46.0	− 3.1		
			LE	Ms=4.6		20.0	2.1
KMI	29.0	191	EP	22 12 57.5	− 3.6		
			AP	22 13 06.5	− 4.5		
			ES	22 17 47.0	− 1.6		
			LN	Ms=4.6		14.0	1.2

1984 12 10

O=03 16 40.3 +/− 0.19 SEC
LAT=4.80 N +/− 1.44 KM
LONG=125.39 E +/− 0.37 KM
DEPTH=190 KM +/− 2.09 KM
mb(NEIS)=4.7
STATIONS USED=21, STAND DEV=2.11 SEC

QZN	20.7	314	EP	03 21 08.2	0.6		
			ES	03 24 47.5	4.2		
XAN	32.9	334	P	03 22 56.1	− 2.7		
CD2	33.0	324	(P)	03 23 01.7	1.8		
GTA	41.5	329	EP	03 24 10.8	− 0.2		

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1984 12 10							
O=07 54 26.4			+/− 0.41 SEC				
LAT=27.98 N			+/− 2.56 KM				
LONG=97.42 E			+/− 3.43 KM				
DEPTH=0 KM			+/− 0.02 KM				
ML(CHINA)=3.6/5							
STATIONS USED=6, STAND DEV=2.37 SEC							
KMI	5.5	119	EPG	07 56 13.0	5.5		
CD2	6.2	60	PN	07 56 02.4	0.1		
GYA	8.4	98	P	07 56 27.0	− 5.1		
1984 12 10							
O=10 22 00.6			+/− 0.55 SEC				
LAT=14.24 S			+/− 5.83 KM				
LONG=75.00 W			+/− 2.93 KM				
DEPTH=33 KM			+/− 5.08 KM				
Ms(CHINA)=5.5/1, Msz(NEIS)=5.0, mb(NEIS)=5.5							
STATIONS USED=60, STAND DEV=4.38 SEC							
MDJ	143.2	330	EPKP	10 41 31.8	− 0.7		
CN2	145.7	333	PKPR	10 41 39.5	2.5		
			PKP_mZ			6.0	0.6
			EPP	10 45 01.0	0.0		
			PP_mZ			5.0	0.5
			ESS	11 03 42.0	− 6.6		
WMQ	147.0	23	PKPD	10 41 44.5	5.3		
SNY	148.1	333	PKPR	10 41 47.0	6.1		
			PP	10 45 15.0	− 0.4		
			LN	Ms=5.5		28.0	0.8
			LE			26.0	0.7
BJI	152.5	341	EPKP	10 41 52.5	4.9		
HHC	152.9	349	EPKP	10 41 53.8	5.5		
BTO	153.4	351	PKP	10 41 54.7	5.7		
GTA	154.5	9	EPKP	10 41 54.6	4.1		
TIA	155.6	335	EPKP	10 41 56.7	5.0		
NJ2	158.2	326	EPKP	10 41 59.0	3.7		
LZH	158.2	2	EPKP	10 42 00.5	5.0		
XAN	160.0	350	PKP	10 42 02.0	4.6		
WHN	161.6	333	EPKP	10 42 05.0	6.0		
CD2	163.4	3	PKP	10 42 05.8	5.0		
GYA	167.7	352	PKP	10 42 08.0	3.4		
			XPKP	10 42 25.0			
			PP	10 47 03.0	1.7		
KMI	169.0	10	PKPC	10 42 10.0	4.6		
			PP	10 47 09.5	2.1		
			SS	11 07 54.0	− 2.2		
QZN	173.4	316	PKP	10 42 12.0	4.4		
			SS	11 08 51.5	12.6		
1984 12 10							
O=11 07 16.4			+/− 0.07 SEC				
LAT=8.95 S			+/− 1.29 KM				
LONG=124.00 E			+/− 1.87 KM				
DEPTH=33 KM			+/− 0.11 KM				
mb(NEIS)=4.9							
STATIONS USED=28, STAND DEV=1.38 SEC							
QZN	31.1	333	EP	11 13 39.0	4.6		
GYA	39.0	334	P	11 14 43.2	1.1		
KMI	39.7	329	PC	11 14 49.0	1.1		
			ES	11 20 42.0	− 7.6		
WHN	40.3	347	EP	11 14 54.5	1.5		
NJ2	41.1	353	IPD	11 14 59.6	0.7		
CD2	44.1	334	EP	11 15 24.4	0.3		
XAN	45.1	342	P	11 15 30.7	− 1.0		
BJI	49.3	352	EP	11 16 03.5	− 1.0		
GTA	53.1	336	P	11 16 32.6	− 1.0		
MDJ	53.6	4	EP	11 16 36.0	− 0.8		
1984 12 10							
O=16 44 10.3			+/− 0.01 SEC				
LAT=39.78 N			+/− 0.14 KM				
LONG=118.45 E			+/− 0.05 KM				
DEPTH=33 KM			+/− 0.01 KM				
ML(CHINA)=3.5/3							
STATIONS USED=4, STAND DEV=3.24 SEC							
BJI	1.8	279	EP	16 44 42.0	3.0		
			I	16 44 44.0			
			I	16 45 07.5			
			S_mN	ML=3.7		0.5	0.9
			S_mE			0.5	0.7
TIA	3.7	196	EP	16 45 17.4	10.9		
			I	16 46 05.0			
			S_mN	ML=2.8		0.5	0.02
			S_mE			0.5	0.03
SNY	4.4	60	EP	16 45 32.4	15.9		
			S_mN	ML=3.7		0.6	0.2
			S_mE			0.6	0.08
TIY	5.1	248	EP	16 45 45.4	16.2		
			I	16 46 47.7			
			S_mN	ML=3.5		0.6	0.05
			S_mE			0.6	0.05
HHC	5.4	283	IPC	16 45 49.8	19.2		
			I	16 47 02.5			

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			S_mE	ML=3.4		0.6	0.04
BTO	6.5	279	EP	16 46 09.9	23.8		
			I	16 47 36.0			
			S_mN	ML=3.4		1.0	0.02
			S_mE			1.0	0.02
CN2	6.6	50	EP	16 46 10.6	23.1		

1984 84 12 10
O=16 55 40.0
LAT=39.60 N
LONG=118.40 E
DEPTH=0 KM
ML(CHINA)=3.5/9

BJI	1.8	285	PG	16 56 14.5	2.3		
			SG	16 56 38.0	2.6		
			S_mN	ML=3.8		0.5	1.1
			S_mE			0.5	0.7
SNY	4.5	58	EPG	16 57 03.2	0.8		
			SG	16 58 00.0	−1.6		
			S_mN	ML=3.5		0.6	0.1
			S_mE			0.8	0.06
BTO	6.5	281	EPG	16 57 41.9	3.3		
			ESG	16 59 08.0	4.3		
			S_mN	ML=3.2		1.0	0.02
			S_mE			1.0	0.01
CN2	6.7	49	EPG	16 57 41.4	−1.5		

1984 12 10
O=20 40 21.1 +/− 0.06 SEC
LAT=39.50 N +/− 0.89 KM
LONG=73.19 E +/− 0.61 KM
DEPTH=34 KM +/− 0.21 KM
mb(NEIS)=4.1
STATIONS USED=15, STAND DEV=1.10 SEC

KSH	2.2	90	P	20 40 58.0	2.4		
WMQ	11.7	63	P	20 43 06.5	−2.1		
GTA	20.5	81	EP	20 44 59.4	−0.2		

1984 12 10
O=21 51 09.4 +/− 0.11 SEC
LAT=40.09 N +/− 1.34 KM
LONG=118.66 E +/− 1.18 KM
DEPTH=33 KM +/− 0.01 KM
ML(CHINA)=3.4/14
STATIONS USED=9, STAND DEV=3.61 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	1.9	269	P	21 51 38.0	−2.0		
			ES	21 52 01.5	−1.6		
			S_mN	ML=4.1		0.5	1.5
			S_mE			0.5	1.5
DL2	2.6	116	EP	21 51 53.5	3.7		
			I	21 52 31.7			
			S_mN	ML=2.8		0.7	0.05
			S_mE			0.7	0.04
TIA	4.1	197	EP	21 52 11.1	0.3		
			S	21 52 58.4	0.5		
			S_mN	ML=3.1		0.5	0.03
			S_mE			0.5	0.04
SNY	4.1	63	EP	21 52 26.3	15.0		
			I	21 53 23.8			
			S_mN	ML=3.3		0.8	0.07
			S_mE			0.8	0.06
TIY	5.4	245	EP	21 52 37.2	7.3		
			S	21 53 41.4	9.5		
			S_mN	ML=3.6		0.6	0.06
			S_mE			0.6	0.05
BTO	6.6	277	EP	21 53 02.7	16.1		
			I	21 54 28.8			
			S_mN	ML=3.3		0.8	0.02
			S_mE			0.8	0.01

1984 12 10
O=22 54 18.6 +/− 0.17 SEC
LAT=10.81 N +/− 1.62 KM
LONG=125.64 E +/− 3.86 KM
DEPTH=31 KM +/− 0.21 KM
mb(NEIS)=4.1
STATIONS USED=9, STAND DEV=1.58 SEC

WIN	22.3	333	E(P)	22 59 16.5	1.7
GYA	23.7	313	P	22 59 32.0	2.7
XAN	27.7	329	EP	23 00 04.6	−2.2
CD2	28.5	317	EP	23 00 11.8	−1.9
BJI	30.3	345	(P)	23 00 29.0	−0.7

1984 12 11
O=03 56 43.8 +/− 0.10 SEC
LAT=36.35 N +/− 1.68 KM
LONG=139.61 E +/− 1.51 KM
DEPTH=44 KM +/− 1.35 KM
mb(NEIS)=4.7
STATIONS USED=9, STAND DEV=1.90 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CN2	13.1	308	EP	03 59 51.0	0.6		
BJI	18.8	288	(P)	04 01 01.0	− 1.0		
1984 12 11							
O=10 37 13.4			+/−	0.06 SEC			
LAT=44.08 N			+/−	2.10 KM			
LONG=148.27 E			+/−	1.26 KM			
DEPTH=41 KM			+/−	0.85 KM			
Ms(CHINA)=4.4/5, Msz(NEIS)=4.5, mb(NEIS)=5.3							
STATIONS USED=76, STAND DEV=1.03 SEC							
CN2	16.4	276	EP	10 41 01.6	− 1.2		
			AP	10 41 09.0	− 2.1		
			ES	10 44 02.0	− 1.4		
			LE	Ms=4.4		15.0	1.5
SNY	18.2	271	PD	10 41 25.0	0.2		
			S	10 44 40.0	−17.3		
			LE	Ms=4.2		18.0	1.0
DL2	20.6	264	EP	10 41 49.8	− 1.6		
BJI	24.1	271	EP	10 42 25.5	− 0.8		
			P_mZ			5.5	0.3
			ES	10 46 42.0	3.7		
SSE	24.9	247	P	10 42 36.0	1.4		
			AP	10 42 46.0	0.9		
			XS	10 47 10.0	− 0.5		
TIA	25.0	262	P	10 42 35.2	0.4		
NJ2	25.9	252	PD	10 42 44.5	0.5		
			ES	10 47 10.0	0.5		
			LE	Ms=4.5		15.0	1.0
HHC	27.1	276	P	10 42 54.9	− 0.2		
TIY	27.7	269	E(P)	10 43 00.0	0.0		
BTO	28.3	276	EP	10 43 05.3	− 0.5		
WHN	29.9	254	P	10 43 20.5	0.3		
XAN	31.9	265	P	10 43 36.7	− 0.8		
GTA	36.0	279	IPC	10 44 13.8	0.5		
			PCP	10 46 40.0	1.6		
			LE	Ms=4.5		12.0	0.5
CD2	37.2	264	IPC	10 44 24.1	0.8		
			P_mZ			0.8	0.1
GYA	37.8	256	PC	10 44 27.6	− 0.3		
KMI	41.4	258	IPC	10 44 58.0	0.1		
			AP	10 45 08.5	− 0.1		
			XP	10 45 12.0	− 1.7		
			ES	10 51 12.0	2.0		
WMQ	42.7	291	P	10 45 09.4	0.6		
1984 12 11							
O=16 17 49.4			+/−	0.11 SEC			
LAT=6.14 N			+/−	0.87 KM			
LONG=123.84 E			+/−	0.91 KM			
DEPTH=552 KM			+/−	1.81 KM			
mb(NEIS)=4.6							
STATIONS USED=26, STAND DEV=1.14 SEC							
QZN	18.7	314	EP	16 21 35.0	0.6		
			ES	16 24 24.0	−11.6		
KMI	27.6	315	EP	16 22 56.0	0.6		
XAN	31.0	335	IPD	16 23 23.7	− 0.3		
CD2	31.0	325	P	16 23 24.6	0.5		
BJI	34.4	349	EP	16 23 53.0	0.1		
GTA	39.6	330	IPD	16 24 35.9	0.9		
WMQ	49.1	325	IPC	16 25 49.5	0.4		
1984 12 11							
O=22 47 55.5			+/−	0.12 SEC			
LAT=26.52 N			+/−	2.64 KM			
LONG=143.77 E			+/−	2.55 KM			
DEPTH=18 KM			+/−	0.46 KM			
Ms(CHINA)=4.5/20, Msz(NEIS)=4.7, mb(NEIS)=5.3							
STATIONS USED=89, STAND DEV=1.96 SEC							
SSE	20.3	288	EP	22 52 32.0	− 1.5		
			PPP	22 53 02.0			
			ES	22 56 12.0	− 3.5		
			XS	22 56 21.0	− 4.0		
			LN	Ms=4.2		14.0	0.8
NJ2	22.4	290	PC	22 52 54.2	− 0.6		
			ES	22 56 58.0	2.5		
			LN	Ms=4.4		12.0	0.8
SNY	22.6	317	EP	22 52 54.5	− 1.8		
			S	22 56 53.0	− 5.2		
			LN	Ms=4.6		15.0	1.2
			LE			15.0	1.2
QZH	22.7	271	EP	22 52 57.0	− 1.0		
			AP	22 53 04.0	− 0.6		
			ES	22 56 57.0	− 4.4		
			SS	22 57 43.0	− 0.2		
			LN	Ms=4.2		15.0	0.7
CN2	22.8	323	EP	22 52 57.0	− 1.3		
			P_mZ			3.5	0.7
			AP	22 53 05.0	0.1		
			ES	22 56 56.0	− 6.0		
			S_mN			8.0	1.1
			S_mE			8.0	0.8
			LN	Ms=4.6		13.0	1.3

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIA	24.7	299	EP	22 53 16.5	− 0.5		
			AP	22 53 25.5	2.1		
			S	22 57 39.9	3.9		
			ESS	22 58 48.8	17.8		
			LN	Ms=4.5		15.0	0.9
			LE			15.0	0.7
WHN	26.1	285	EP	22 53 31.5	0.8		
			ES	22 57 48.0	−11.5		
			LN	Ms=4.4		12.0	0.6
BJI	26.6	307	EP	22 53 35.5	0.4		
			LN	Ms=4.2		12.0	0.4
GZH	27.8	269	PC	22 53 50.6	4.6		
TIY	28.7	300	EP	22 53 53.1	− 0.8		
			PCP	22 57 12.0	8.0		
			LN	Ms=4.7		14.0	1.4
HHC	30.2	306	PC	22 54 06.9	− 0.6		
XAN	30.9	292	PD	22 54 12.5	− 1.4		
			AP	22 54 21.0	0.4		
			LN			14.0	0.7
BTO	31.2	305	EP	22 54 16.0	− 0.8		
QZN	32.1	263	EP	22 54 23.5	− 0.7		
			ES	22 59 31.0	− 3.9		
			XS	22 59 42.0	− 4.1		
GYA	33.1	278	P	22 54 33.4	− 0.1		
			S	22 59 47.0	− 4.5		
CD2	35.2	286	EP	22 54 50.8	− 0.7		
			AP	22 54 55.8	− 2.4		
			ES	23 00 20.0	− 3.9		
KMI	36.9	277	PC	22 55 05.5	0.2		
			AP	22 55 16.0	4.1		
			XP	22 55 18.0	2.7		
			ES	23 00 48.0	− 1.1		
			LN	Ms=4.6		16.0	0.7
GTA	38.7	300	IPD	22 55 20.1	− 0.6		
			ES	23 01 14.6	− 2.5		
			LE	Ms=4.7		14.7	0.9
WMQ	48.1	306	E(P)	22 56 35.6	− 0.9		

1984 12 11
O=23 22 18.5 +/− 0.16 SEC
LAT=22.04 S +/− 7.99 KM
LONG=68.41 W +/− 9.31 KM
DEPTH=84 KM +/− 1.51 KM
mb(NEIS)=5.7
STATIONS USED=87, STAND DEV=2.71 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
WMQ	150.6	36	IPKPD	23 41 55.7	− 0.7		
			XPKP	23 42 43.0			
			PP	23 45 23.0	−17.8		
			PPmZ			10.0	1.4
			SKKS	23 52 24.0			
MDJ	153.0	330	EPKP	23 42 00.0	0.2		
			PP	23 45 53.0	− 1.1		
			SS	24 05 08.0	−10.1		
CN2	155.4	335	IPKPR	23 42 02.7	− 0.3		
			PKPmZ			7.0	1.4
			PKP2	23 42 28.7			
			PKS	23 45 36.0			
			PP	23 46 05.5	− 2.0		
			PPmZ			6.0	2.2
			ESS	24 05 33.0	−11.2		
SNY	157.8	335	IPKPR	23 42 06.0	− 0.2		
			PKPmZ			5.0	1.6
			PP	23 46 20.0	−1.1		
GTA	160.0	27	PKPD	23 42 10.0	1.2		
			LE			16.0	2.3
DL2	161.1	335	PKP1	23 42 09.0	− 0.8		
			PKP2	23 42 53.0			
			PP	23 46 38.0	− 0.6		
			LN			12.0	1.7
			LE			10.0	2.0
HHC	161.2	0	PKPR	23 42 12.0	1.9		
			XPKP	23 43 40.0			
			PP	23 46 38.5	− 0.8		
			PPmZ			7.0	2.2
BTO	161.5	3	PKPR	23 42 12.0	1.7		
			PKPmZ			6.0	1.8
			PP	23 46 40.0	− 0.4		
BJI	161.6	348	EPKP	23 42 12.0	1.7		
			PKPmZ			6.0	1.7
			PP	23 46 40.0	− 1.2		
			PPmN			9.0	0.4
			PPmZ			8.0	1.7
			ESS	24 06 43.0	− 6.1		
TIY	164.4	357	PKPR	23 42 14.0	0.9		
			PKPmZ			6.0	1.5
			PP	23 46 56.0	0.1		
			PPmZ			7.0	2.5
			SS	24 07 12.5	− 5.1		
LZH	164.5	24	EPKP	23 42 15.5	2.2		
			PKPmZ			12.0	1.6
			APKP	23 42 44.0			

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			21.0	12.5
TIA	165.1	342	PKPD	23 42 14.6	0.8		
			PKP_mZ			5.0	0.6
			PP	23 46 57.6	− 1.8		
			PP_mN			5.0	0.5
			PP_mE			3.0	0.4
			PP_mZ			6.0	0.5
			SS	24 07 18.0	− 6.8		
			LN			30.0	2.2
			LE			47.0	7.2
SSE	167.6	318	PKPR	23 42 16.0	0.4		
			PP	23 47 10.5	− 1.2		
			SS	24 07 50.0	0.5		
XAN	167.8	10	PKPD	23 42 17.2	1.4		
			PKP_mZ			8.0	1.7
			EPP	23 47 10.0	− 3.1		
			PP_mZ			8.0	0.7
NJ2	168.1	328	IPKPK	23 42 17.0	1.1		
			PKP_mZ			8.0	1.2
			IPP	23 47 13.0	− 1.6		
			SS	24 07 48.0	− 7.1		
CD2	168.7	36	IPKPD	23 42 18.0	1.6		
			PKP_mZ			6.0	1.9
			XPKP	23 42 51.0			
			PP	23 47 18.5	0.9		
			SS	24 08 00.0	− 1.3		
			LE			38.0	4.4
WHN	171.2	344	PKP	23 42 19.5	1.7		
			PP	23 47 30.0	0.1		
			PP_mZ			5.0	3.7
			SS	24 08 21.0	− 3.7		
KMI	171.3	67	PKPD	23 42 19.0	0.9		
			PKP_mZ			8.0	1.5
			PP	23 47 32.5	1.9		
			LE			12.0	2.8
QZH	172.9	295	IPKPR	23 42 20.0	1.3		
			XPKP	23 43 03.0			
			PP	23 47 35.0	− 3.7		
			PP_mZ			7.5	4.1
			SS	24 08 32.0	−10.5		
			LN			18.0	0.7
GYA	173.7	44	PKPR	23 42 20.0	− 1.3		
			PP	23 47 47.0	4.5		
			PPP	23 53 10.0			
			SKKS	23 54 20.0			
QZN	176.6	151	PKPR	23 42 21.0	1.1		
			PKP_mZ			7.0	1.7
			XPKP	23 42 59.0			
			PP	23 47 56.0	− 0.2		
			SS	24 09 14.0	− 2.2		
GZH	187.1	302	PKPR	23 42 22.0	2.0		
			PKP_mZ			6.0	1.6
			IPP	23 48 06.0	2.7		
			PP_mZ			8.0	4.6
			SS	24 09 30.0	− 0.7		

1984 12 12
O=22 59 56.8 +/− 0.08 SEC
LAT=29.35 N +/− 1.55 KM
LONG=141.14 E +/− 1.43 KM
DEPTH=78 KM +/− 0.36 KM
mb(NEIS)=5.0
STATIONS USED=24, STAND DEV=1.53 SEC

SSE	17.3	280	EP	23 03 56.5	1.2	
			XP	23 04 18.0	− 1.3	
			S	23 07 14.0	8.3	
MDJ	17.8	332	EP	23 04 00.0	− 0.9	
CN2	19.1	323	EP	23 04 17.0	0.7	
NJ2	19.3	283	PC	23 04 18.4	− 0.4	
QZH	20.5	263	EP	23 04 32.3	1.0	
XAN	27.7	288	P	23 05 38.5	− 2.1	
GYA	30.5	272	P	23 06 04.6	− 0.9	
CD2	32.3	282	(P)	23 06 18.0	− 2.7	

1984 12 12
O=23 06 27.4 +/− 0.17 SEC
LAT=7.79 S +/− 3.52 KM
LONG=108.02 E +/− 4.61 KM
DEPTH=76 KM +/− 0.65 KM
mb(NEIS)=5.6
STATIONS USED=94, STAND DEV=2.77 SEC

QZN	26.7	3	EP	23 12 06.5	4.7	
			AP	23 12 22.0	3.1	
			PP	23 12 54.0	5.1	
			S	23 16 41.5	11.4	
			XS	23 16 56.0	− 3.9	
			LN		17.0	1.6
			LE		16.0	1.9
GZH	31.1	9	EP	23 12 42.0	0.7	
			ES	23 17 45.0	4.5	
KMI	33.1	351	PC	23 13 00.0	1.1	
			AP	23 13 12.5	− 3.8	

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	23 18 17.0	5.0		
			LN			12.0	3.0
GYA	34.1	357	P	23 13 08.0	1.0		
			PCP	23 15 44.6	2.1		
			S	23 18 31.0	4.4		
			XS	23 18 47.0	− 9.9		
			LE			14.0	1.6
QZH	34.1	17	EP	23 13 08.0	0.6		
			PP	23 14 28.0	4.9		
			LN			13.0	0.4
WHN	38.6	8	EP	23 13 47.5	2.5		
CD2	38.7	354	IPD	23 13 46.0	0.1		
			ES	23 19 41.5	4.2		
			LE			8.0	0.8
SSE	40.7	17	EP	23 14 04.0	1.8		
			PCP	23 16 04.2	1.5		
			SCP	23 19 49.0	5.0		
			ES	23 20 15.0	8.3		
			LN			28.0	1.7
			LE			28.0	1.1
NJ2	40.9	14	PD	23 14 06.6	2.1		
			PCP	23 16 05.2	1.6		
			SCP	23 19 49.5	4.4		
			S	23 20 15.0	4.2		
XAN	41.6	1	PC	23 14 09.8	− 0.2		
			PCP	23 16 06.0	0.2		
			S	23 20 23.0	2.2		
			ESS	23 23 26.0	2.9		
			LE			16.0	1.5
LZH	43.8	355	EP	23 14 29.0	0.8		
TIA	44.6	10	PD	23 14 34.2	0.0		
			PCP	23 16 17.0	1.2		
			ES	23 21 05.0	0.7		
			EXS	23 21 24.0	− 11.7		
TIY	45.5	4	P	23 14 42.0	0.8		
			S	23 21 22.0	5.3		
			LN			13.0	0.8
GTA	47.6	351	IPC	23 14 58.0	0.1		
			PCP	23 16 28.1	1.8		
			S	23 21 52.0	5.1		
			LE			20.0	3.2
BTO	48.2	2	P	23 15 03.0	0.4		
			ES	23 22 05.0	9.6		
BJI	48.2	8	EP	23 15 02.5	0.0		
			PCP	23 16 27.5	− 1.0		
			SCP	23 20 19.0	4.3		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	23 22 06.0	10.8		
			SmN			7.0	0.3
			LN			15.0	0.5
HHC	48.5	3	EP	23 15 05.4	0.2		
			ES	23 22 23 22 06.0	6.0		
SNY	51.4	14	EP	23 15 25.6	− 1.5		
			ES	23 22 46.0	6.2		
			LN			26.0	1.1
			LE			27.0	1.1
CN2	53.7	15	PC	23 15 42.4	− 2.1		
			PmZ			4.0	0.3
			PCP	23 16 49.0	0.1		
			SCP	23 20 42.4	4.1		
			ES	23 23 13.0	1.4		
			SmN			5.0	0.4
			SCS	23 25 28.0	5.7		
			LE			14.0	0.6
WMQ	54.6	342	IPC	23 15 49.5	− 1.3		
			PmZ			1.5	0.08
			PCP	23 16 52.0	− 0.1		
			SCP	23 20 46.2	4.2		
			SCS	23 25 33.0	4.7		
MDJ	55.7	18	EP	23 15 57.0	− 1.7		

1984 12 13

O = 03 20 26.7 +/− 0.08 SEC

LAT = 39.49 N +/− 0.94 KM

LONG = 118.29 E +/− 0.93 KM

DEPTH = 33 KM +/− 0.01 KM

ML (CHINA) = 3.6/18

STATIONS USED = 11, STAND DEV = 3.51 SEC

BJI	1.7	289	EP	03 20 57.0	2.3		
			ES	03 21 18.0	2.2		
			SmN	ML = 3.9		0.5	1.3
			SmE			0.5	1.3
DL2	2.7	101	P	03 21 13.0	4.9		
			LG	03 21 52.4			
			SmN	ML = 3.2		0.8	0.1
			SmE			0.8	0.1
TIA	3.4	196	EP	03 21 22.0	3.2		
			I	03 22 01.4			
			SmN	ML = 3.3		0.7	0.07
			SmE			0.8	0.1
SNY	4.7	58	EP	03 21 51.2	14.1		
			I	03 22 52.4			
			SmN	ML = 3.9		1.0	0.2

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			Sm E			0.8	0.1
TI Y	4.9	250	EP	03 21 42.4	1.9		
			I	03 22 45.6			
			Sm N	ML=3.4		0.8	0.04
			Sm E			0.8	0.05
HHC	5.3	286	EP	03 22 04.0	18.4		
			I	03 23 13.0			
			Sm N	ML=3.7		0.8	0.04
			Sm E			1.0	0.1
BTO	6.4	282	EP	03 22 20.9	19.8		
			I	03 23 45.5			
			Sm N	ML=3.6		1.0	0.04
			Sm E			1.0	0.03

1984 12 13
O=05 20 15.5 +/- 0.08 SEC
LAT=4.89 S +/- 1.49 KM
LONG=101.85 E +/- 1.74KM
DEPTH=27 KM +/- 0.19 KM
Ms(CHINA)=4.6/5, Msz(NEIS)=4.5, mb(NEIS)=5.1
STATIONS USED=50, STAND DEV=0.91 SEC

QZN	25.0	18	EP	05 25 39.4	0.1		
			ES	05 29 54.0	-5.5		
			LN	Ms=4.5		16.5	0.9
			LE			16.5	0.9
GYA	31.5	8	P	05 26 38.2	0.2		
CD2	35.6	2	IPC	05 27 13.5	-0.2		
WHN	37.2	17	EP	05 27 28.5	1.7		
XAN	39.3	9	IPC	05 27 44.2	-0.1		
			LN	Ms=4.6		13.0	0.6
NJ2	40.1	22	EP	05 27 50.8	-0.5		
			LN	Ms=4.7		15.0	0.8
SSE	40.3	26	EP	05 27 52.4	0.1		
TI A	43.3	18	EP	05 28 17.1	-0.3		
			LN	Ms=4.7		18.0	0.8
TI Y	43.5	12	EP	05 28 19.5	0.4		
			LN	Ms=4.5		15.0	0.4
GTA	44.1	357	IPC	05 28 24.7	0.7		
BTO	45.9	8	EP	05 28 38.5	0.4		
HHC	46.4	10	EP	05 28 43.0	1.0		
WMQ	50.1	346	PC	05 29 11.5	0.3		
SNY	50.5	21	EP	05 29 12.6	-1.6		
CN2	52.9	21	IPC	05 29 31.0	-1.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			AP	05 29 38.0	-2.6		
MDJ	55.2	23	EP	05 29 48.2	-0.7		

1984 12 13
O=12 17 43.3 +/- 0.17 SEC
LAT=19.15 E +/- 3.91 KM
LONG=174.67 W +/- 3.08 KM
DEPTH=141 KM +/- 0.46 KM
mb(NEIS)=5.1
STATIONS USED=30, STAND DEV=1.63 SEC

QZH	78.3	301	IPD	12 29 30.3	0.1
CN2	83.2	320	PC	12 29 55.4	-0.5
SNY	83.2	318	EP	12 29 55.8	-0.3
WHN	84.2	304	EP	12 30 02.5	1.5
TI A	84.7	311	EP	12 30 03.8	0.3
XAN	89.8	306	EP	12 30 28.6	0.4

1984 12 13
O=17 32 17.8 +/- 0.11 SEC
LAT=4.27 S +/- 0.60 KM
LONG=129.40 E +/- 0.53 KM
DEPTH=176 KM +/- 1.25 KM
mb(NEIS)=4.6
STATIONS USED=10, STAND DEV=1.09 SEC

XAN	42.7	334	EP	17 39 59.0	-0.6
GTA	51.3	330	PC	17 41 06.7	0.1

1984 12 13
O=19 35 59.3 +/- 0.46 SEC
LAT=6.36 S +/- 2.14 KM
LONG=76.88 W +/- 0.69 KM
DEPTH=33 KM +/- 4.18 KM
mb(NEIS)=4.9
STATIONS USED=14, STAND DEV=2.61 SEC

BTO	145.4	350	EPKP	19 55 34.7	-0.5
GTA	147.0	4	PKP	19 55 38.5	0.6
SSE	150.1	327	EPKP	19 55 48.0	5.2
XAN	151.9	349	EPKP	19 55 45.0	-0.6

1984 12 13
O=20 16 35.7 +/- 0.09 SEC
LAT=4.91 S +/- 1.93 KM
LONG=101.92 E +/- 2.07 KM
DEPTH=26 KM +/- 0.29 KM
Ms(CHINA)=5.0/17, Msz(NEIS)=5.0, mb(NEIS)=5.2
STATIONS USED=72, STAND DEV=1.17 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	25.0	17	EP	20 22 01.5	2.0		
			S	20 26 17.4	− 2.4		
			LN	Ms=4.7		15.0	1.2
			LE			15.0	1.2
KMI	29.9	1	EP	20 22 44.0	0.2		
			XP	20 22 59.0	3.6		
			ES	20 27 31.0	− 7.5		
			LE	Ms=5.1		17.0	3.7
GYA	31.5	8	PU	20 22 58.0	− 0.4		
			S	20 28 02.0	− 2.3		
			LN	Ms=4.8		15.0	1.6
CD2	35.7	2	IPC	20 23 33.6	− 0.5		
			P_mZ			0.9	0.07
			(S)	20 29 10.0	1.4		
			LE	Ms=5.2		15.0	3.0
WHN	37.2	17	EP	20 23 48.5	1.5		
			LN	Ms=4.8		14.0	1.2
XAN	39.3	9	PC	20 24 04.2	− 0.4		
			ES	20 30 05.0	0.9		
			LN	Ms=5.1		14.0	1.9
			LE			13.0	0.9
NJ2	40.1	22	PC	20 24 11.8	0.3		
			LN	Ms=5.0		14.0	1.5
SSE	40.3	25	EP	20 24 14.0	1.5		
			P_mZ			1.0	0.05
			IS	20 30 22.0	3.7		
			XS	20 30 38.0	6.0		
			LN	Ms=4.8		18.0	1.2
LZH	40.8	2	EP	20 24 18.0	1.1		
			P_mZ			1.0	0.09
TIA	43.3	18	PD	20 24 37.5	− 0.1		
			PCP	20 26 27.4	1.3		
			LN	Ms=5.0		14.0	1.0
			LE			14.0	1.0
TIY	43.5	12	EP	20 24 39.5	0.1		
			P_mZ			1.0	0.06
			(S)	20 31 06.5	− 0.1		
			LN	Ms=5.1		16.0	1.6
			LE			15.0	1.3
GTA	44.1	157	IPC	20 24 44.8	0.3		
			PP	20 26 29.8	1.3		
			SCP	20 30 11.9	− 5.6		
			SCS	20 34 39.4	1.5		
			LE	Ms=4.9		16.0	1.1
BTO	45.9	8	P	20 24 59.0	0.6		
HHC	46.4	10	EP	20 25 03.4	1.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	46.6	15	EP	20 25 04.0	0.0		
			(S)	20 31 54.0	3.1		
			LN	Ms=5.2		16.5	2.1
WMQ	50.2	346	IPC	20 25 31.6	− 0.2		
			P_mZ			1.7	0.3
			XP	20 25 45.0	1.5		
			PCP	20 26 42.0	− 8.2		
			ES	20 32 42.0	0.8		
SNY	50.5	20	PC	20 25 33.0	− 1.4		
			ES	20 32 46.5	0.5		
			LN	Ms=5.0		19.0	0.9
			LE			19.0	1.1
CN2	52.9	21	IPC	20 25 51.2	− 1.2		
			P_mZ			4.0	0.5
			AP	20 26 01.0	0.3		
			ES	20 33 16.0	− 2.9		
			LN	Ms=5.0		15.0	1.1
MDJ	55.2	23	EP	20 26 08.2	− 0.9		

1984 12 14
O=00 17 21.0 +/− 0.14 SEC
LAT=20.94 S +/− 1.76 KM
LONG=177.93 W +/− 1.12 KM
DEPTH=468 KM +/− 1.83 KM
mb(NEIS)=5.0
STATION USED=35, STAND DEV=1.20 SEC

NJ2	80.2	309	PC	00 28 44.4	0.9
MDJ	80.9	324	EP	00 28 47.5	0.2
SNY	82.6	320	PC	00 28 55.7	0.0
CN2	82.7	322	PC	00 28 55.4	− 0.9
WHN	82.8	306	EP	00 28 58.0	1.4
GYA	86.9	299	P	00 29 17.8	0.7
XAN	88.4	307	PD	00 29 24.7	0.5
CD2	91.1	302	(P)	00 29 38.0	1.6

1984 12 14
O=09 49 04.6 +/− 0.10 SEC
LAT=33.46 N +/− 0.93 KM
LONG=100.57 E +/− 1.24 KM
DEPTH=32 KM +/− 0.01 KM
ML(CHINA)=3.7/8
STATIONS USED=11, STAND DEV=1.75 SEC

CD2	3.7	132	EPN	09 50 04.8	3.7	
			I	09 51 03.0		
			S_mN	ML=4.2	0.9	0.6
			S_mE		0.9	0.6

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LZH	3.8	44	EPN	09 50 02.6	0.7		
			I	09 51 07.2			
			SmN	ML=3.9		1.0	0.3
			SmE			0.8	0.3
XAN	7.0	82	EPN	09 50 44.5	− 2.8		
			SmN	ML=3.4		0.8	0.02
			SmE			0.8	0.02
GYA	8.7	141	EP	09 51 11.0	− 1.0		

1984 12 14
O=14 19 22.1 +/− 0.16 SEC
LAT=32.35 N +/− 2.72 KM
LONG=69.60 E +/− 2.22 KM
DEPTH=33 KM +/− 0.41 KM
mb(NEIS)=4.6
STATIONS USED=21, STAND DEV=2.48 SEC

WMQ	18.2	45	P	14 23 34.0	− 0.6
GTA	25.4	65	IPD	14 24 50.9	2.3
GYA	32.7	90	P	14 25 54.8	0.5
XAN	32.8	76	EP	14 25 54.8	− 0.3

1984 12 14
O=14 32 31.1 +/− 0.09 SEC
LAT=4.99 S +/− 2.13 KM
LONG=68.49 E +/− 1.69 KM
DEPTH=9 KM +/− 0.23 KM
Ms(CHINA)=5.0/2, Msz(NEIS)=4.4, mb(NEIS)=5.2
STATIONS USED=54, STAND DEV=1.03 SEC

QZN	47.2	58	EP	14 41 07.5	1.0
			ES	14 47 57.5	− 1.5
GYA	48.4	47	P	14 41 15.6	− 0.6
CD2	49.1	41	P	14 41 21.2	− 0.1
WMQ	51.6	17	P	14 41 40.5	0.1
LZH	52.6	36	EP	14 41 48.0	− 0.1
GTA	52.8	30	PD	14 41 48.3	− 1.3
XAN	54.4	41	PD	14 42 00.6	− 1.0
WHN	56.3	48	EP	14 42 15.5	0.5
TIY	58.9	39	EP	14 42 33.2	− 0.4
BTO	59.2	35	EP	14 42 36.0	0.3
HHC	60.3	36	P	14 42 43.0	0.0
NJ2	60.4	48	PD	14 42 43.0	− 0.7
TIA	61.2	43	PD	14 42 48.4	− 0.8
SNY	68.4	41	EP	14 43 34.3	− 1.4
CN2	70.5	40	PD	14 43 47.7	− 1.2
MDJ	73.5	40	EP	14 44 06.5	− 0.5

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ

1984 12 14
O=21 15 27.4 +/− 0.14 SEC
LAT=5.61 S +/− 4.08 KM
LONG=69.02 E +/− 3.23 KM
DEPTH=22 KM +/− 0.71 KM
mb(NEIS)=4.6
STATIONS USED=15, STAND DEV=1.81 SEC

GYA	48.4	47	EP	21 24 12.0	1.2
CD2	49.2	40	P	21 24 18.0	1.4
WMQ	52.0	17	P	21 24 37.0	− 1.1
XAN	54.6	40	PD	21 24 56.4	− 0.5
NJ2	60.4	48	EP	21 25 35.5	− 2.6
CN2	70.6	39	EP	21 26 43.2	− 0.8
MDJ	73.7	40	EP	21 27 03.5	1.5

1984 12 14
O=21 45 13.8 +/− 0.22 SEC
LAT=5.89 S +/− 4.21 KM
LONG=103.91 E +/− 5.17 KM
DEPTH=17 KM +/− 0.61 KM
Ms(CHINA)=5.5/9, Msz(NEIS)=5.1, mb(NEIS)=5.4
STATIONS USED=63, STAND DEV=3.46 SEC

QZN	25.4	13	EP	21 50 45.6	2.9	
			S	21 55 08.5	1.8	
			XS	21 55 15.0	− 2.5	
			PCS	21 57 43.0	−10.9	
			LN	Ms=5.3	12.5	4.3
			LE		12.0	4.5
KMI	30.8	357	EP	21 51 34.0	2.1	
			PP	21 52 43.0	10.6	
			ES	21 56 35.0	0.7	
			LE	Ms=5.7	14.0	12.2
GYA	32.3	4	P	21 51 47.0	2.7	
			S	21 56 47.0	− 9.3	
			LN	Ms=5.6	15.0	2.1
			LE		15.0	8.3
CD2	36.6	359	P	21 52 19.8	− 1.6	
			ES	21 58 04.0	0.8	
			SS	22 00 45.0	16.6	
			LE	Ms=5.7	17.0	11.8
WHN	37.6	14	EP	21 52 32.0	2.4	
			ES	21 58 45.0	26.8	
			LE	Ms=5.5	14.0	5.0
XAN	40.0	6	P	21 52 52.3	2.5	
			ES	21 58 55.0	0.1	
			LE	Ms=5.8	15 0	10.7

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SSE	40.3	23	E(P)	21 53 02.0	9.6		
			ES	21 59 13.0	13.5		
			SS	22 02 08.0	16.7		
			LN	Ms=5.3		12.0	2.4
			LE			10.0	1.1
NJ2	40.3	19	EP	21 52 53.2	0.7		
			ES	21 59 00.0	0.3		
			LN	Ms=5.3		13.0	2.8
LZH	41.8	359	EP	21 53 03.4	-1.0		
			LE	Ms=5.4		13.0	3.7
TIA	43.7	15	EP	21 53 19.4	-0.6		
			ES	21 59 43.5	-5.6		
			LN	Ms=5.3		12.0	2.2
			LE			12.0	1.1
TIY	44.1	9	EP	21 53 26.0	2.5		
			XS	22 00 26.0	19.5		
			LN	Ms=5.7		14.0	6.0
GTA	45.2	355	P	21 53 31.0	-1.6		
			PP	21 55 14.5	-3.9		
			LN	Ms=5.9		19.7	14.6
BTO	46.6	6	EP	21 53 43.5	-0.1		
HHC	47.0	7	E(P)	21 53 50.0	-3.1		
BJI	47.1	12	EP	21 53 47.0	-0.0		
			LN	Ms=5.5		15.0	4.0
SNY	50.8	18	EP	21 54 16.8	-1.2		
			ES	22 01 27.0	-2.6		
			LN	Ms=5.3		18.0	2.2
			LE			13.0	1.2
WMQ	51.6	345	P	21 54 20.5	-1.5		
			S	22 01 38.5	-2.9		
CN2	53.2	19	PD	21 54 33.0	-0.5		
			ES	22 01 59.0	-3.3		
			LN	Ms=5.5		14.0	3.0
MDJ	55.3	22	EP	21 54 49.8	0.3		

1984 12 15

O=04 32 57.2 +/- 0.16 SEC
LAT=15.43 S +/- 0.90 KM
LONG=167.65 E +/- 2.22 KM
DEPTH=143 KM +/- 0.72 KM
mb(NEIS)=5.0
STATION USED=15, STAND DEV=1.23 SEC

MDJ	69.1	331	EP	04 43 50.1	-0.1	
XAN	74.4	312	EP	04 44 21.8	-0.3	
GTA	83.4	313	EP	04 45 12.0	1.2	
			AP	04 45 44.1	-1.7	

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 12 15							
O=05 10 27.8 +/- 0.11 SEC							
LAT=6.09 S +/- 2.26 KM							
LONG=105.38 E +/- 2.32 KM							
DEPTH=60 KM +/- 0.41 KM							
mb(NEIS)=5.2							
STATIONS USED=25, STAND DEV=1.78 SEC							
QZN	25.3	9	EP	05 15 55.6	4.5		
			ES	05 20 19.0	8.2		
			XS	05 20 36.0	1.0		
			LN			11.0	0.9
			LE			10.0	0.5
GYA	32.4	2	P	05 16 55.8	1.4		
CD2	36.8	357	EP	05 17 33.2	0.9		
XAN	40.0	4	EP	05 17 56.8	-2.4		
GTA	45.6	353	EP	05 18 43.1	-1.1		
			PCP	05 20 21.8	0.6		
WMQ	52.2	343	EP	05 19 33.0	-2.2		
CN2	52.9	18	EP	05 19 36.6	-3.6		

1984 12 15

O=08 15 39.2 +/- 0.14 SEC
LAT=8.15 N +/- 1.47 KM
LONG=127.19 E +/- 1.96 KM
DEPTH=55 KM +/- 1.22 KM
mb(NEIS)=5.2
STATIONS USMD=49, STAND DEV=1.73 SEC

GZH	19.9	319	EP	08 20 09.0	-0.4	
QZN	20.0	304	P	08 20 10.2	-0.1	
			ES	08 23 46.0	-1.5	
NJ2	25.0	343	PC	08 21 02.2	2.3	
GYA	26.7	315	P	08 21 16.8	1.3	
TIA	29.4	343	EP	08 21 30.6	-9.3	
XAN	30.8	329	PC	08 21 50.3	-1.9	
CD2	31.5	319	EP	08 21 57.0	-1.5	
BJI	33.3	344	EP	08 22 14.0	0.3	
SNY	33.7	355	PC	08 22 18.6	1.1	
CN2	35.5	357	EP	08 22 34.4	1.0	
			XP	08 22 54.0	0.2	
BTO	35.8	337	EP	08 22 36.9	1.6	
MDJ	36.4	2	EP	08 22 39.8	-0.7	
GTA	39.6	326	IPD	08 23 08.3	0.5	
			PCP	08 25 14.9	1.4	
WMQ	49.4	322	P	08 24 27.5	1.1	

1984 12 15

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
O=09 01 20.9			+/− 0.10 SEC				
LAT=39.91 N			+/− 2.13 KM				
LONG=22.88 E			+/− 1.38 KM				
DEPTH=20 KM			+/− 0.29 KM				
mb(NEIS)=4.5							
STATIONS USED=25, STAND DEV=1.45 SEC							
WMQ	47.3	62	P	09 09 56.5	0.7		
GTA	57.4	63	PC	09 11 10.9	− 0.3		
CD2	64.4	70	EP	09 11 58.6	− 0.2		
XAN	66.4	64	P	09 12 10.9	− 0.6		
CN2	48.4	48	P	09 12 41.4	− 0.7		
1984 12 15							
O=10 26 50.6			+/− 0.05 SEC				
LAT=37.86 N			+/− 0.74 KM				
LONG=102.31 E			+/− 0.54 KM				
DEPTH=0 KM			+/− 0.01 KM				
ML(CHINA)=3.8/10							
STATIONS USED=6, STAND DEV=0.99 SEC							
LZH	2.2	144	IPGD	10 27 30.0	0.0		
			SG	10 27 57.3	− 0.9		
			S_mN	ML=3.9		0.6	0.8
			S_mE			0.8	1.1
GTA	2.5	309	PN	10 27 34.7	1.4		
			PG	10 27 37.9	1.9		
			SG	10 28 10.7	2.0		
			S_mN	ML=4.0		0.8	0.5
			S_mE			1.0	1.0
BTO	6.6	63	EPG	10 28 51.2	0.6		
			ESG	10 30 15.4	− 1.4		
			S_mN	ML=3.6		1.0	0.04
			S_mE			1.0	0.02
XAN	6.6	123	EPN	10 28 32.0	0.7		
			PG	10 28 50.8	0.2		
			SN	10 29 45.0	− 3.0		
			SG	10 30 14.6	− 2.2		
			S_mN	ML=3.4		0.8	0.02
			S_mE			0.8	0.02
1984 12 15							
O=10 54 11.6			+/− 0.16 SEC				
LAT=31.45 N			+/− 1.97 KM				
LONG=77.57 E			+/− 2.56 KM				
DEPTH=38 KM			+/− 0.28 KM				
mb(NEIS)=4.7							
STATIONS USED=16, STAND DEV=3.03 SEC							
WMQ	14.7	30	P	10 57 46.4	7.3		
GTA	19.8	60	EP	10 58 40.0	− 1.5		
CD2	22.4	84	EP	10 59 10.8	2.4		
GYA	25.9	93	P	10 59 42.8	0.5		
XAN	26.4	75	P	10 59 46.9	− 0.4		
1984 12 15							
O=14 44 58.8			+/− 0.09 SEC				
LAT=37.20 N			+/− 2.12 KM				
LONG=116.23 W			+/− 1.78 KM				
DEPTH=5 KM			+/− 0.87 KM				
mb(NEIS)=5.4							
STATIONS USED=41, STAND DEV=1.62 SEC							
MDJ	79.2	318	EP	14 57 05.5	− 1.6		
CN2	81.9	319	PC	14 57 20.2	− 1.4		
SNY	84.3	319	EP	14 57 34.6	0.9		
TIA	91.8	319	EP	14 58 10.3	0.4		
1984 12 15							
O=18 53 15.1			+/− 0.18 SEC				
LAT=36.52 N			+/− 1.68 KM				
LONG=70.87 E			+/− 1.49 KM				
DEPTH=202 E			+/− 0.74 KM				
mb(NEIS)=4.3							
STATION USED=12, STAND DEV=1.83 SEC							
KSH	5.0	52	P	18 54 32.0	1.7		
WMQ	14.8	55	P	18 56 35.0	− 0.8		
			S	18 59 16.5	1.9		
			S_mN			2.0	0.02
			PCP	19 01 33.0	− 0.3		
LSA	18.3	106	P	18 57 18.2	1.3		
GTA	23.0	73	P	18 58 04.0	0.8		
CN2	41.7	62	EP	19 00 50.0	4.1		
1984 12 16							
O=01 07 48.5			+/− 0.31 SEC				
LAT=23.88 N			+/− 3.41 KM				
LAT=117.44 E			+/− 1.73 KM				
DEPTH=8 KM			+/− 0.46 KM				
ML(CHINA)=3.6/5							
STATIONS USED=6, STAND DEV=2.32 SEC							
QZH	1.5	44	IPND	01 08 15.1	− 0.7		
			SN	01 08 38.0	2.1		
			S_mN	ML=3.1		0.2	0.2
			S_mE			0.2	0.3
GZH	3.8	259	EPG	01 08 56.4	0.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	A sec	A μ
			SG	01 09 42.6	− 6.1		
			Sm N	ML=3.7		0.8	0.2
			Sm E			0.8	0.1
1984 12 16							
O=11 35 49.1			+/− 0.11 SEC				
LAT=6.42 N			+/− 1.14 KM				
LONG=127.21 E			+/− 1.22 KM				
DEPTH=66KM			+/− 0.91 KM				
Ms(CHINA)=4.6/5,mb(NEIS)=5.0							
STATIONS USED=40, STAND DEV=1.12 SEC							
QZH	20.2	336	EP	11 40 21.0	− 0.1		
			ES	11 43 56.0	− 3.2		
			LN	Ms=4.7		17.0	2.9
QZN	21.0	308	P	11 40 30.5	0.6		
			PCP	11 44 36.0	1.5		
			LN	Ms=4.6		15.5	0.8
			LE			16.0	0.9
GZH	21.3	322	EP	11 40 31.5	− 0.8		
			PCP	11 44 32.5	− 2.5		
NJ2	26.7	344	EP	11 41 23.0	− 1.1		
WHN	26.9	334	E(P)	11 41 26.5	0.6		
GYA	27.9	317	EP	11 41 37.8	2.0		
KMI	29.9	311	EP	11 41 53.5	0.0		
			AP	11 42 07.0	− 1.7		
			ES	11 46 39.0	− 6.2		
			LN	Ms=4.3		20.0	1.3
XAN	32.3	330	EP	11 42 12.5	− 1.7		
CD2	32.8	320	EP	11 42 18.6	− 0.3		
BJI	34.9	345	EP	11 42 36.0	− 0.8		
SNY	35.4	355	PD	11 42 41.2	0.2		
			ES	11 48 18.0	7.5		
			LN			20.0	0.4
			LE			18.0	0.4
CN2	37.3	357	EP	11 42 57.0	0.3		
MDJ	38.1	2	EP	11 43 04.3	0.6		
GTA	41.1	327	IPC	11 43 28.8	0.3		
			PCS	11 49 15.8	− 0.9		
			SCS	11 53 30.6	6.9		
			LE	Ms=4.7		9.0	0.5
WMQ	50.8	323	P	11 44 45.0	− 0.8		
1984 12 16							
O=13 20 12.5			+/− 0.07 SEC				
LAT=20.03 N			+/− 1.10 KM				
LONG=122.35 E			+/− 1.27 KM				
DEPTH=149 KM +/− 0.47 KM							
mb(NEIS)=5.4, ML(CHINA)=5.0/4							
STATIONS USED=77, STAND DEV=1.24 SEC							
QZH	6.0	325	IPD	13 21 37.3	− 2.9		
			S	13 22 39.8	− 8.4		
			Sm N	ML=5.2		0.6	1.7
			Sm E			0.6	1.9
			LE			9.0	1.1
GZH	8.9	291	P	13 22 18.5	− 0.8		
			ES	13 23 53.0	− 5.2		
			LN			4.0	3.4
			LE			3.0	1.3
SSE	11.1	354	EP	13 22 48.0	0.4		
QZN	11.8	267	IPU	13 22 58.0	0.3		
			S	13 25 06.5	− 0.9		
			LN			12.0	1.0
			LE			10.0	0.8
NJ2	12.4	345	EP	13 23 04.2	− 0.5		
			LE			7.0	0.9
WHN	12.7	326	PC	13 23 10.5	1.3		
			S	13 25 25.5	− 2.5		
			LN			9.0	0.9
GYA	15.8	296	PD	13 23 48.6	0.7		
			XP	13 24 20.0	− 8.3		
			S	13 26 43.0	4.7		
			SCP	13 31 58.0	0.5		
			PCS	13 32 16.0	3.3		
			SCS	13 35 35.0	0.0		
TIA	16.8	345	PC	13 24 00.7	0.7		
			PCP	13 28 50.3	10.2		
			ES	13 27 07.0	6.6		
			SCP	13 32 00.0	0.6		
			SCS	13 35 39.0	1.2		
			LN			11.0	0.5
			LE			11.0	0.5
XAN	18.4	322	PC	13 24 17.7	− 0.8		
			S	13 27 35.0	− 0.1		
			Sm N			8.0	0.9
			LN			5.0	1.2
			LE			5.0	1.1
KMI	18.8	289	PC	13 24 24.0	0.5		
			XP	13 24 53.0	−13.9		
			ES	13 27 55.0	10.3		
			Sm N			10.0	0.7
			LN			10.0	0.7
TIY	19.6	335	IPD	13 24 32.0	0.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			PmZ			0.8	0.04
			XP	13 25 08.5	− 8.3		
			S	13 28 05.0	4.7		
			LN			12.0	0.6
			LE			12.0	0.4
CD2	19.9	306	IPC	13 24 35.1	− 0.1		
			PmZ			1.0	0.5
			XP	13 25 03.0	−17.8		
			ES	13 28 03.0	− 3.5		
			LN			7.0	1.7
SNY	21.8	2	IPD	13 24 53.4	0.3		
			S	13 28 40.0	0.6		
			SS	13 29 28.0	− 0.6		
			LE			16.0	0.9
HHC	22.7	338	P	13 25 03.6	1.1		
BTO	23.0	335	EP	13 25 07.0	1.1		
CN2	23.8	5	EP	13 25 13.5	0.2		
			AP	13 25 37.0	− 6.0		
			ES	13 29 18.0	2.6		
			SmE			9.0	0.6
			LN			14.0	1.0
MDJ	25.2	12	EP	13 25 27.0	0.4		
GTA	27.4	319	P	13 25 45.4	− 0.9		
			XP	13 26 22.8	−11.7		
			S	13 30 13.8	− 0.1		
			LE			7.0	0.4
WMQ	37.4	317	P	13 27 12.6	− 0.3		

1984 12 16

O = 17 52 49.4 +/− 0.14 SEC
LAT = 10.54 N +/− 1.69 KM
LONG = 125.59 E +/− 2.12 KM
DEPTH = 21 KM +/− 0.66 KM
Ms(CHINA) = 4.2/4, Msz(NEIS) = 4.6, mb(NEIS) = 4.8
STATION USED = 43, STAND DEV = 1.55 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GZH	17.1	318	EP	17 56 51.5	2.5		
			EXS	18 00 09.3	0.9		
QZN	17.4	300	P	17 56 56.6	3.9		
			ES	18 00 06.0	− 3.5		
SSE	20.9	349	EP	17 57 33.4	0.7		
			XP	17 57 45.0	1.6		
			XS	18 01 33.0	2.4		
			LE	Ms = 4.2		14.0	0.7
NJ2	22.3	344	EP	17 57 49.0	1.8		
			LE	Ms = 4.2		12.0	0.6
WHN	22.5	333	EP	17 57 49.5	0.5		
GYA	23.9	314	P	17 58 03.4	0.6		
KMI	26.1	306	EP	17 58 23.5	− 0.5		
XAN	27.9	329	EP	17 58 38.0	− 2.7		
CD2	28.7	318	EP	17 58 45.2	− 2.1		
SNY	31.2	357	EP	17 59 10.0	0.1		
			ES	18 04 13.0	− 1.2		
			LN	Ms = 4.2		18.0	0.5
BTO	33.0	337	EP	17 59 26.0	0.7		
CN2	33.1	359	EP	17 59 27.4	0.6		
GTA	36.8	325	P	17 59 56.8	− 1.3		
WWQ	46.6	322	EP	18 01 19.2	0.8		

1984 12 16

O = 19 51 52.4 +/− 0.06 SEC
LAT = 4.83 S +/− 6.28 KM
LONG = 153.68 E +/− 5.77 KM
DEPTH = 76 KM +/− 3.97 KM
Msz(NEIS) = 5.4, mb(NEIS) = 5.5
STATIONS USED = 52, STAND DEV = 1.01 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZH	45.2	312	PU	20 00 02.5	− 1.2		
			XP	20 00 17.0	−14.0		
			ES	20 06 36.0	− 1.2		
			ESS	20 09 53.0	0.9		
			LE			19.0	2.2
SSE	47.3	321	EP	20 00 20.0	− 0.7		
			PmZ			1.2	0.2
			XP	20 00 35.0	−13.1		
			PP	20 02 09.0	− 3.1		
			ES	20 07 06.0	− 1.8		
			XS	20 07 33.0	− 6.7		
			LN	"		28.0	2.7
			LE			28.0	4.7
GZH	48.2	306	D	20 00 28.0	0.6		
			ES	20 07 23.0	3.0		
			LE			22.0	5.9
QZN	49.2	300	P	20 00 36.6	1.0		
			PP	20 02 39.0	8.5		
			XS	20 07 52.0	−14.9		
			SS	20 10 54.0	− 8.0		
			LE			21.0	3.5
NJ2	49.4	320	PU	20 00 36.0	− 1.0		
			PmZ			6.0	1.3
			SCP	20 05 54.0	9.2		
			S	20 07 39.0	1.6		
			LE			17.0	2.4
WHN	51.5	315	P	20 00 54.4	1.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DL2	52.6	328	PU	20 01 02.0	0.5		
			ES	20 08 24.0	2.1		
			LN			20.0	2.4
			LE			20.0	1.2
TIA	53.3	323	PD	20 01 06.0	− 0.1		
			SCP	20 06 09.2	7.9		
			ES	20 08 28.0	− 2.2		
			ESCS	20 10 54.3	10.3		
			LE			15.0	0.3
MDJ	53.8	338	PD	20 01 10.0	0.3		
			XP	20 01 24.0	−13.3		
			S	20 08 35.0	− 2.0		
SNY	53.9	332	IPU	20 01 10.0	− 0.9		
			XP	20 01 28.0	−10.6		
			PPP	20 04 20.0			
			S	20 08 39.0	− 0.3		
			XS	20 09 00.0	−11.6		
			SS	20 12 16.0	− 3.1		
			LN			25.0	1.8
			LE			27.0	3.8
CN2	54.7	335	IPU	20 01 16.0	− 0.5		
			P_mZ			5.0	1.0
			AP	20 01 28.0	− 7.3		
			XP	20 01 34.0	−10.2		
			PCP	20 02 19.4	1.8		
			SCP	20 06 14.4	6.9		
			S	20 08 46.0	− 3.5		
			XS	20 09 08.0	−13.9		
			SCS	20 11 00.0	5.9		
			ESS	20 12 30.0	− 1.2		
			LN			20.0	2.0
GYA	55.1	306	PC	20 01 20.4	0.7		
			XP	20 01 35.0	−12.3		
			PCS	20 06 20.0	2.5		
			XS	20 09 20.0	− 7.6		
TIY	57.1	321	PU	20 01 33.0	− 0.9		
			P_mZ			6.0	0.6
			(S)	20 09 22.0	0.4		
			LN			9.0	0.6
XAN	57.2	315	P	20 01 34.7	− 0.2		
			XP	20 01 55.0	− 7.6		
			ES	20 09 21.0	− 2.6		
			XS	20 09 43.0	−13.0		
KMI	57.7	303	PC	20 01 38.5	0.0		
			AP	20 01 49.0	− 8.1		
			PC	20 02 33.0	3.6		
			P_mZ			6.0	0.7
			ES	20 09 25.0	− 5.2		
			LE			22.0	3.9
CD2	59.4	310	EP	20 01 50.0	0.0		
			ES	20 09 52.0	0.1		
			LE			26.0	5.2
HHC	59.6	323	PU	20 01 52.0	0.8		
BTO	60.3	322	P	20 01 57.0	0.5		
LZH	61.9	315	PU	20 02 07.0	0.2		
			P_mZ			5.0	1.5
			ES	20 10 30.0	6.7		
			LE			19.0	1.5
GTA	66.3	316	IPC	20 02 36.0	0.5		
			P_mZ			1.0	0.2
			S	20 11 20.8	2.9		
			S_mE			6.5	0.7
			LE			22.0	2.2
WMQ	76.4	317	IPC	20 03 36.5	0.6		
			S	20 13 17.5	3.5		
			SKS	20 13 41.0	7.0		

1984 12 17

O = 14 49 46.8 +/− 0.07 SEC
LAT = 35.57 N +/− 1.60 KM
LONG = 140.09 E +/− 1.46 KM
DEPTH = 85 KM +/− 1.08 KM
mb(NEIS) = 5.2
STATIONS USED = 54, STAND DEV = 1.50 SEC

MDJ	12.1	321	EP	14 52 37.0	− 0.5
CN2	13.9	310	PC	14 53 04.0	2.2
SNY	14.3	300	PD	14 53 10.1	3.4
SSE	16.4	259	EP	14 53 36.4	3.1
			XS	14 56 53.0	0.8
NJ2	18.0	264	EP	14 53 53.4	0.5
TIA	18.6	278	EP	14 54 00.0	− 0.1
WHN	22.1	264	EP	14 54 38.0	1.5
TIY	22.3	283	E(P)	14 54 41.1	3.0
HHC	23.0	291	IPC	14 54 47.0	2.0
BTO	24.1	291	EP	14 54 57.9	1.8
XAN	25.6	275	EP	14 55 09.0	− 1.0
GZH	26.3	249	EP	14 55 16.0	− 0.8
LZH	29.3	281	EP	14 55 42.0	− 1.7
GYA	29.9	261	P	14 55 47.6	− 1.9
CD2	30.6	271	EP	14 55 54.9	− 0.6
GTA	32.0	289	P	14 56 07.4	− 0.2
			PCP	14 58 57.1	2.1

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
KMI	33.7	262	EP	14 56 21.0	− 1.4		
WMQ	40.6	298	PC	14 57 20.2	0.3		
1984 12 17							
O = 20 48 56.8			+/−	0.08 SEC			
LAT = 0.01 N			+/−	1.47 KM			
LONG = 123.66 E			+/−	2.12 KM			
DEPTH = 143 KM			+/−	0.29 KM			
mb(NEIS) = 5.5							
STATIONS USED = 88, STAND DEV = 1.35 SEC							
QZN	23.3	325	P	20 53 54.0	1.4		
			AP	20 54 23.0	2.0		
			PP	20 54 35.0	4.7		
			S	20 58 09.0	18.1		
			SS	20 59 08.0	19.6		
GZH	25.0	337	PD	20 54 11.5	2.0		
			ES	20 58 20.0	− 0.8		
QZH	25.3	349	PR	20 54 12.5	0.9		
			AP	20 54 50.5	9.8		
			ES	20 58 24.0	− 0.6		
			XS	20 59 17.0	1.1		
			LN			17.0	0.6
GYA	31.0	329	P	20 55 04.6	1.3		
			AP	20 55 40.0	6.8		
			PCP	20 57 56.0	0.7		
			S	21 00 00.0	3.6		
SSE	31.0	355	EP	20 55 02.0	− 1.3		
			AP	20 55 48.0	14.5		
WHN	31.6	344	EP	20 55 09.5	0.7		
KMI	32.1	322	PU	20 55 15.0	1.6		
			AP	20 55 50.0	6.6		
			ES	21 00 17.0	2.3		
NJ2	32.2	352	PC	20 55 13.4	− 0.3		
CD2	36.1	330	EP	20 55 47.5	0.7		
			ES	21 01 16.5	1.3		
TIA	36.5	351	EP	20 55 49.3	− 1.3		
			PCP	20 58 11.3	0.3		
			SCP	21 01 46.7	3.9		
			ES	21 01 17.0	− 5.0		
			LN			10.0	0.3
XAN	36.6	339	PC	20 55 50.4	− 0.6		
DL2	38.7	357	EP	20 56 10.4	1.2		
TIY	38.9	345	EP	20 56 10.5	− 0.2		
			AP	20 56 45.5	3.7		
			(S)	21 01 56.0	− 2.4		
			LE			12.0	0.3
LZH	40.3	334	P	20 56 23.5	1.0		
			P_m Z			2.0	0.2
SNY	41.6	359	IPC	20 56 31.4	− 1.4		
HHC	42.1	346	EP	20 56 37.0	0.1		
BTO	42.3	344	EP	20 56 38.0	− 0.1		
CN2	43.6	1	PC	20 56 46.0	− 3.1		
			PCP	20 58 33.6	− 0.3		
MDJ	44.7	6	PC	20 56 56.0	− 1.9		
GTA	44.9	333	IPC	20 56 59.4	0.2		
			AP	20 57 34.5	3.8		
			PCP	20 58 39.0	0.9		
			SCP	21 02 18.8	3.3		
			PCS	21 02 30.3	0.0		
			SCS	21 06 40.4	2.3		
WMQ	54.1	328	IPC	20 58 09.0	− 0.9		
1984 12 17							
O = 21 09 22.7			+/−	0.10 SEC			
LAT = 44.21 N			+/−	3.45 KM			
LONG = 149.36 E			+/−	2.32 KM			
DEPTH = 32 KM			+/−	0.73 KM			
Ms(CHINA) = 4.6/12, Msz(NEIS) = 5.0, mb(NEIS) = 5.5							
STATIONS USED = 78, STAND DEV = 1.81 SEC							
MDJ	14.1	278	EP	21 12 41.8	− 1.3		
CN2	17.2	277	PC	21 13 19.8	− 2.6		
			PmZ			5.0	0.6
			XP	21 13 34.0	− 0.3		
			ES	21 16 25.0	−10.2		
			LE	Ms = 4.6		14.0	2.2
SNY	19.0	271	PD	21 13 43.5	− 0.9		
			ES	21 17 05.0	− 6.9		
			SS	21 17 30.0	− 6.4		
			LN	Ms = 4.6		18.0	1.7
			LE			19.0	2.5
DL2	21.4	265	PD	21 14 09.4	− 0.4		
SSE	25.7	248	EP	21 14 53.8	1.6		
			XS	21 19 39.0	7.6		
			LE	Ms = 4.6		14.0	1.3
TIA	25.8	263	EP	21 14 52.8	0.2		
			S	21 19 21.0	3.5		
			LE	Ms = 4.9		19.0	2.3
NJ2	26.7	253	PD	21 15 03.0	1.4		
HHC	27.9	26	P	21 15 12.5	0.1		
TIY	28.5	269	EP	21 15 17.6	0.3		
			XS	21 20 20.0	3.9		
			LE	Ms = 4.6		15.0	1.1

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BTO	29.1	276	EP	21 15 22.6	− 0.4		
WHN	30.7	255	EP	21 15 38.0	0.5		
			LE	Ms=4.9		8.0	1.1
XAN	32.7	265	PC	21 15 54.0	− 0.7		
LZH	35.3	272	IPC	21 16 18.0	0.2		
			P_mZ			1.5	0.9
GZH	36.2	246	PD	21 16 21.5	− 3.6		
GTA	36.8	280	IPC	21 16 30.2	0.2		
			PP	21 17 52.5	− 2.7		
			SCS	21 26 43.3	3.3		
			LE	Ms=5.8		12.0	8.9
CD2	38.0	265	IPC	21 16 40.8	0.5		
			XP	21 16 53.5	0.2		
			P_mE			0.7	0.3
			(S)	21 22 29.0	− 1.7		
			XS	21 22 47.0	1.3		
			LE	Ms=4.6		20.0	1.0
GYA	38.6	257	PC	21 16 44.6	− 0.3		
			S	21 22 39.0	− 0.1		
			LE	Ms=4.8		15.0	1.2
KMI	42.2	258	IPC	21 17 15.0	0.2		
			AP	21 17 27.5	3.9		
			XP	21 17 33.5	5.9		
			ES	21 23 34.0	1.1		
			LN	Ms=4.8		16.0	1.0
WMQ	43.4	292	IPC	21 17 24.5	− 0.2		

1984 12 17

O=23 30 19.8 +/− 0.13 SEC

LAT=44.36 N +/− 4.03 KM

LONG=149.21 E +/− 2.65 KM

DEPTH=30 KM +/− 0.55 KM

Ms(CHINA)=5.9/32, Msz(NEIS)=6.0, mb(NEIS)=5.7

STATIONS USED=102, STAND DEV=2.40 SEC

MDJ	14.0	277	PC	23 33 38.5	− 0.2		
			XS	23 36 22.5	− 2.4		
CN2	17.1	276	PU	23 34 15.0	− 3.1		
			P_mZ			5.0	2.3
			ES	23 37 22.0	− 5.3		
			S_mN	Ms=5.7		9.0	2.6
			LN			16.0	15.0
			LE			16.0	31.0
SNY	18.9	271	IPU	23 34 40.0	− 0.4		
			S	23 37 45.0	−23.9		
			LN	Ms=5.6		15.0	14.2
			LE			15.0	15.0
DL2	21.3	264	P	23 35 06.0	− 0.2		
			S	23 38 45.0	−11.2		
			LN	Ms=5.7		15.0	14.4
			LE			15.0	16.3
TIA	25.7	262	EP	23 35 49.2	0.0		
			P_mN			6.0	0.6
			P_mE			6.0	1.4
			P_mZ			6.0	2.9
			S_mN			18.0	16.2
			S_mE			18.0	17.1
			XS	23 40 23.0	− 4.6		
			LN	Ms=5.7		16.5	14.1
			LE			16.5	10.4
SSE	25.7	248	PU	23 35 48.0	− 1.2		
			AP	23 35 57.0	− 0.6		
			XP	23 36 01.0	− 0.6		
			PP	23 36 30.0	1.3		
			ES	23 40 14.0	0.4		
			XS	23 40 28.0	0.3		
			LN	Ms=6.1		18.0	46.8
NJ2	26.7	252	PU	23 35 59.0	0.6		
			P_mZ			16.0	3.1
			LN	Ms=6.2		16.0	37.9
			LE			16.0	42.0
HHC	27.8	276	P	23 36 09.0	0.4		
			ES	23 40 54.0	5.9		
			LN	Ms=5.8		12.0	5.3
			LE			15.0	17.3
TIY	28.3	269	P	23 36 13.0	− 0.8		
			IXS	23 41 11.0	− 0.5		
			LN	Ms=5.7		14.0	11.0
			LE			16.0	6.9
BTO	29.0	276	EP	23 36 19.5	0.3		
			S	23 41 10.0	2.8		
			LN	Ms=6.0		13.0	12.2
			LE			16.0	24.0
WHN	30.7	255	PU	23 36 35.0	0.6		
			S_mN			17.0	5.8
			XS	23 41 43.0	− 5.5		
			LE	Ms=6.0		16.0	30.7
QZH	31.5	242	PU	23 36 40.5	− 1.2		
			P_mN			6.0	0.7
			P_mE			6.0	0.7
			P_mZ			6.0	1.3
			S	23 41 48.0	0.9		
			LN	Ms=5.9		19.0	16.6

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			19.0	21.9
XAN	32.6	265	PC	23 36 50.4	− 0.9		
			S	23 42 07.0	2.8		
			LN	Ms=5.7		16.0	9.8
			LE			15.0	7.7
LZH	35.2	272	IPC	23 37 14.5	0.3		
			P_mZ			1.5	0.5
			AP	23 37 25.0	2.3		
			S	23 42 47.0	1.5		
			LN	Ms=5.9		17.0	0.7
			LE			17.5	17.1
GZH	36.2	245	PU	23 37 23.5	1.3		
			P_mZ			5.0	1.4
			S	23 43 03.0	2.9		
			S_mN			13.0	2.7
			S_mE			12.0	1.3
			LN	Ms=6.0		17.0	21.8
			LE			16.0	9.1
GTA	36.7	279	IPC	23 37 26.8	0.6		
			P_mZ			5.0	1.3
			S	23 43 02.3	− 5.1		
			LE	Ms=5.8		14.0	11.4
CD2	37.9	265	IPC	23 37 37.9	1.0		
			ES	23 43 28.0	1.1		
			LN	Ms=5.9		16.0	15.6
GYA	38.5	256	P	23 37 41.6	− 0.1		
			S	23 43 33.0	− 2.6		
			LN	Ms=6.2		16.0	13.0
			LE			16.0	26.0
QZN	41.4	245	P	23 38 05.0	− 0.3		
			PP	23 39 51.0	7.0		
			S	23 44 25.0	6.7		
			LN	Ms=6.2		19.0	20.2
			LE			18.0	18.6
KMI	42.1	258	PC	23 38 12.0	0.5		
			P_mZ			6.0	1.5
			XP	23 38 26.0	2.1		
			PP	23 39 51.0	− 1.0		
			PCS	23 44 12.0	15.9		
			LN	Ms=6.0		16.0	15.6

1984 12 18
O=00 23 57.0 +/− 0.09 SEC
LAT=44.08 N +/− 6.82 KM
LONG=149.40 E +/− 3.12 KM
DEPTH=51 KM +/− 2.35 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
Ms(CHINA)=4.7/ 1, mb(NEIS)=4.7							
STATIOS USED=15, STAND DEV=2.02							
CN2	17.2	277	EP	00 27 52.0	− 4.0		
BJI	24.9	272	EP	00 29 15.5	− 1.4		
TIA	25.8	263	EP	00 29 24.1	− 1.0		
XAN	32.7	266	EP	00 30 24.8	− 2.5		
GTA	36.8	280	P	00 31 02.0	− 0.7		
CD2	38.1	265	P	00 31 12.1	− 0.7		
			P_mZ			0.5	0.03
WMQ	43.5	292	EP	00 31 56.6	− 1.0		

1984 12 18
O=00 26 18.3 +/− 0.10 SEC
LAT=43.85 N +/− 5.40 KM
LONG=149.29 +/− 4.30 KM
DEPTH=48 KM +/− 2.59 KM
mb(NEIS)=5.1
STATIONS USED=23, STAND DEV=2.13 SEC

MDJ	14.1	279	EP	00 29 35.0	− 2.9		
SNY	18.9	272	IPD	00 30 37.0	− 1.3		
TIA	25.7	263	EP	00 31 45.9	0.1		
HHC	27.9	277	EP	00 32 05.8	− 0.5		
TIY	28.4	270	EP	00 32 15.0	4.1		
BTO	29.1	277	EP	00 32 13.7	− 3.3		
XAN	32.6	266	PC	00 32 46.6	− 1.5		
GTA	36.8	280	P	00 33 23.1	− 1.0		
GYA	38.5	257	P	00 33 37.6	− 0.2		
WMQ	43.5	292	P	00 34 18.0	− 1.4		

1984 12 18
O=02 01 18.8 +/− 0.69 SEC
LAT=45.17 N +/− 11.61 KM
LONG=148.59 E +/− 6.63 KM
DEPTH=35 KM +/− 0.60 KM
mb(NEIS)=4.8
STATIONS USED=15, STAND DEV=3.22 SEC

CN2	16.6	273	EP	02 05 10.4	0.2		
BJI	24.3	269	EP	02 06 33.0	− 1.5		
TIA	25.3	260	EP	02 06 42.5	− 2.1		
XAN	32.2	263	EP	02 07 54.5	8.0		
GTA	36.1	278	P	02 08 14.5	− 5.3		
CD2	37.6	263	EP	02 08 29.0	− 3.3		
WMQ	42.5	290	EP	02 09 13.7	0.3		

1984 12 18
O=03 42 08.2 +/− 0.12 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=44.23 N			**+/− 3.82 KM**				
LONG=149.34 E			**+/− 2.52 KM**				
DEPTH=35 KM			**+/− 0.63 KM**				
Ms(CHINA)=4.5/8, Msz(NEIS)=4.4, mb(NEIS)=5.4							
STATIONS USED=83, STAND DEV=2.01 SEC							
MDJ	14.1	278	EP	03 45 26.5	− 1.6		
SNY	19.0	271	PC	03 46 28.6	− 0.9		
			ES	03 49 37.0	−20.0		
			LE	Ms=4.3		16.0	1.3
SSE	25.7	248	EP	03 47 38.8	1.4		
			XP	03 47 50.6	− 0.5		
TIA	25.7	263	EP	03 47 37.4	− 0.3		
NJ2	26.7	253	PC	03 47 49.0	2.3		
			LN	Ms=4.6		15.0	1.2
HHC	27.9	276	PC	03 47 57.2	− 0.2		
			ES	03 52 40.0	2.8		
			LE	Ms=4.3		13.0	0.5
TIY	28.4	269	EP	03 48 02.8	0.4		
			P_mZ			1.0	0.05
			LN	Ms=4.1		14.0	0.4
BTO	29.1	276	EP	03 48 07.4	− 0.6		
WHN	30.7	255	P	03 48 22.0	− 0.6		
XAN	32.7	265	PC	03 48 38.8	− 1.0		
GZH	36.2	246	EP	03 49 10.3	0.0		
GTA	36.8	280	IPC	03 49 15.4	0.4		
			PCP	03 51 52.3	15.9		
			LN	Ms=4.8		16.0	1.2
CD2	38.0	265	IPC	03 49 25.7			
			P_mZ			0.7	0.7
GYA	38.6	257	PC	03 49 30.0	0.0		
WMQ	43.4	291	IPC	03 50 10.0	0.3		
					0.3		
1984 12 18							
O=03 52 13.7			**+/− 0.07 SEC**				
LAT=44.17 N			**+/− 2.14 KM**				
LONG=149.17 E			**+/− 1.06 KM**				
DEPTH=30 KM			**+/− 0.99 KM**				
Ms(CHINA)=4.6/1, mb(NEIS)=4.7							
STATIONS USED=18, STAND DEV=0.91 SEC							
CN2	17.1	277	EP	03 56 09.5	− 2.5		
BJI	24.7	271	EP	03 57 34.0	− 0.1		
TIA	25.6	262	EP	03 57 43.9	1.3		
HHC	27.8	276	EP	03 58 03.6	1.2		
XAN	32.5	265	EP	03 58 44.0	− 0.8		
GTA	36.7	280	PC	03 59 20.4	0.2		
			LN	Ms=4.9		10.0	0.5

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CD2	37.9	265	P	03 59 30.9	0.4		
GYA	38.4	256	P	03 59 35.6	0.6		
WMQ	43.3	291	P	04 00 15.0	− 0.1		
1984 12 18							
O=06 03 45.6			**+/− 0.08 SEC**				
LAT=44.33 N			**+/− 3.11 KM**				
LONG=149.45 E			**+/− 2.51 KM**				
DEPTH=40 KM			**+/− 1.26 KM**				
mb(NEIS)=4.9							
STATIONS USED=27, STAND DEV=1.67 SEC							
MDJ	14.2	278	EP	06 07 02.5	− 3.6		
CN2	17.2	276	P	06 07 44.6	− 0.7		
SNY	19.0	271	EP	06 08 06.0	− 1.3		
BJI	24.9	271	EP	06 09 06.0	− 0.8		
TIA	25.8	262	EP	06 09 14.9	− 0.5		
NJ2	26.8	253	EP	06 09 24.5	− 0.1		
HHC	27.9	276	EP	06 09 34.5	− 0.4		
TIY	28.5	269	E(P)	06 09 43.6	3.6		
XAN	32.8	265	EP	06 10 15.8	− 1.6		
LZH	35.4	272	EP	06 10 40.0	− 0.3		
GTA	36.8	280	IPC	06 10 52.3	0.0		
CD2	38.1	265	EP	06 11 02.4	− 0.6		
GYA	38.7	257	P	06 11 07.0	− 0.7		
WMQ	43.4	291	EP	06 11 46.5	− 0.3		
1984 12 18							
O=06 14 30 .7			**+/− 0.28 SEC**				
LAT=44.02 N			**+/− 6.00 KM**				
LONG=149.30 E			**+/− 2.68 KM**				
DEPTH=35 KM			**+/− 3.25 KM**				
mb(NEIS)=4.8							
STATIONS USED=19, STAND DEV=2.36 SEC							
MDJ	14.1	279	EP	06 17 50.0	− 0.7		
CN2	17.2	277	EP	06 18 27.0	− 3.0		
SNY	18.9	272	EP	06 18 50.4	− 1.4		
HHC	27.9	276	EP	06 20 19.6	− 0.3		
TIY	28.4	270	E(P)	06 20 28.0	3.3		
BTO	29.1	277	EP	06 20 29.8	− 0.7		
XAN	32.6	266	EP	06 21 00.2	− 1.8		
LZH	35.3	272	EP	06 21 23.5	− 1.7		
GTA	36.8	280	PC	06 21 37.0	− 0.6		
CD2	38.0	265	EP	06 21 47.1	− 0.5		
WMQ	43.4	292	EP	06 22 31.2	− 1.5		
1984 12 18							

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
O=06 58 20.1			+/− 0.25 SEC				
LAT=30.02 N			+/− 3.89 KM				
LONG=68.35 E			+/− 3.25 KM				
DEPTH=35 KM			+/− 0.39 KM				
Ms(CHINA)=4.3/2,Msz(NEIS)=4.2,mb(NEIS)=4.6							
STATIONS USED=29, STAND DEV=3.52 SEC							
WMQ	20.6	42	P	07 03 00.5	0.9		
			ES	07 06 47.0	3.3		
			LN	Ms=4.4		22.0	1.7
GTA	17.4	61	EP	07 04 06.3	1.4		
			LN	Ms=4.2		15.0	0.5
CD2	30.5	79	EP	07 04 32.8	0.6		
GYA	33.8	86	P	07 05 01.4	− 0.4		
XAN	34.5	72	EP	07 05 07.4	0.2		
BTO	35.3	61	EP	07 05 15.7	1.2		
WHN	39.5	77	E(P)	07 05 52.0	2.5		
NJ2	43.0	73	EP	07 06 19.6	1.3		
1984 12 18							
O=09 34 38.4			+/− 0.18 SEC				
LAT=44.72 N			+/− 4.21 KM				
LONG=148.94 E			+/− 2.51 KM				
DEPTH=34 KM			+/− 0.36 KM				
mb(NEIS)=4.7							
STATIONS USED=29, STAND DEV=2.05 SEC							
CN2	16.8	275	P	09 38 34.4	1.0		
SNY	18.7	270	PC	09 38 55.1	− 1.0		
BJI	24.6	270	EP	09 39 55.0	− 1.5		
TIA	25.5	261	EP	09 40 04.1	− 1.8		
NJ2	26.6	251	EP	09 40 16.8	1.0		
HHC	27.5	275	EP	09 40 24.2	− 0.4		
XAN	32.4	264	EP	09 41 03.2	− 4.7		
LZH	35.0	271	EP	09 41 29.5	− 1.0		
GTA	36.4	279	P	09 41 41.5	− 0.6		
CD2	37.8	264	EP	09 41 51.8	− 1.8		
WMQ	42.9	291	P	09 42 36.2	− 0.1		
1984 12 18							
O=10 25 00.9			+/− 0.27 SEC				
LAT=44.56 N			+/− 4.53 KM				
LONG=149.15 E			+/− 2.99 KM				
DEPTH=35 KM			+/− 0.40 KM				
Ms(CHINA)=4.4/2,mb(NEIS)=4.9							
STATIONS USED=25, STAND DEV=2.23 SEC							
MDJ	13.9	277	EP	10 28 16.5	− 1.9		
CN2	17.0	275	EP	10 28 57.0	− 0.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	10 32 01.0	− 3.9		
			LN	Ms=4.4		13.0	1.3
BJI	24.7	271	EP	10 30 19.0	− 1.3		
TIA	25.7	262	EP	10 30 28.4	− 1.0		
NJ2	26.7	252	EP	10 30 39.5	0.5		
XAN	32.6	265	EP	10 31 30.0	− 1.4		
LZH	35.2	272	EP	10 31 53.0	− 1.1		
GTA	36.6	279	P	10 32 06.2	0.3		
CD2	37.9	264	EP	10 32 16.4	− 0.7		
GYA	38.5	256	EP	10 32 25.0	2.9		
WMQ	43.1	291	P	10 33 00.5	0.2		
1984 12 18							
O=10 29 18.0			+/− 0.06 SEC				
LAT=44.31 N			+/− 2.68 KM				
LONG=149.10 E			+/− 1.31 KM				
DEPTH=40 KM			+/− 1.12 KM				
Ms(CHINA)=4.5/3, mb(NEIS)=5.1							
STATIONS USED=56, STAND DEV=1.19 SEC							
MDJ	13.9	278	EP	10 32 34.5	− 0.8		
CN2	17.0	276	EP	10 33 12.0	− 2.7		
SNY	18.8	271	IPD	10 33 36.6	− 0.1		
SSE	25.6	248	EP	10 34 45.8	0.4		
			S	10 39 08.0	− 0.4		
			LN	Ms=4.6		20.0	1.4
NJ2	26.6	252	PC	10 34 57.6	2.9		
HHC	27.7	276	EP	10 35 05.0	− 0.1		
TIY	28.3	269	EP	10 35 14.1	3.9		
			LN	Ms=4.2		15.0	0.4
BTO	28.9	276	EP	10 35 15.6	− 0.1		
XAN	32.5	265	P	10 35 47.0	− 0.6		
LZH	35.2	272	EP	10 36 10.5	− 0.1		
GTA	36.6	279	P	10 36 23.2	0.5		
			LE			13.0	0.7
CD2	37.9	264	EP	10 36 33.0	− 0.3		
GYA	38.4	256	P	10 36 37.4	− 0.6		
WMQ	43.2	291	PC	10 37 17.7	0.3		
1984 12 18							
O=10 32 14.2			+/− 0.06 SEC				
LAT=44.42 N			+/− 2.86 KM				
LONG=149.07 E			+/− 1.40 KM				
DEPTH=29 KM			+/− 0.82 KM				
Ms(CHINA)=4.2/2,Msz(NEIS)=4.5, mb(NEIS)=5.1							
STATIONS USED=41, STAND DEV=1.18 SEC							

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	13.9	277	EP	10 35 31.5	− 0.4		
CN2	17.0	276	EP	10 36 10.0	− 1.4		
SNY	18.8	270	IPD	10 36 33.8	0.0		
			LN	Ms=4.4		16.0	0.9
			LE			18.0	1.1
BJI	24.7	271	EP	10 37 34.0	− 0.1		
TIA	25.6	262	EP	10 37 42.3	− 0.6		
NJ2	26.6	252	PC	10 37 55.0	2.6		
HHC	27.7	275	EP	10 38 02.4	0.1		
TIY	28.3	269	EP	10 38 11.4	3.9		
XAN	32.5	265	EP	10 38 44.3	− 0.8		
LZH	35.1	272	EP	10 39 08.0	0.0		
GTA	36.5	279	IPC	10 39 20.6	0.7		
CD2	37.8	264	IPC	10 39 30.6	− 0.2		
			P_mZ			0.6	0.09
GYA	38.4	256	P	10 39 35.8	0.1		
WMQ	43.1	291	EP	10 40 14.7	0.2		

1984 12 18

O=14 37 43.0 +/− 0.11 SEC
LAT=40.31 N +/− 2.13 KM
LONG=139.40 E +/− 1.90 KM
DEPTH=28 KM +/− 0.56 KM
Ms(CHINA)=5.1/24, Msz(NEIS)=5.0, mb(NEIS)=5.0
STATIONS USED=67, STAND DEV=1.96 SEC

MDJ	8.4	303	EP	14 39 43.0	− 3.4		
			ES	14 41 18.0	− 3.7		
			LN	Ms=5.2		11.0	18.9
CN2	10.9	293	EP	14 40 20.8	− 0.3		
SNY	12.0	282	PC	14 40 35.6	− 0.4		
			LN	Ms=5.0		14.0	8.9
			LE			19.0	3.5
DL2	13.8	269	EP	14 40 57.0	− 2.1		
			ES	14 43 30.0	− 2.3		
			LN	Ms=4.9		10.0	3.9
			LE			12.0	2.7
SSE	17.4	243	EP	14 41 46.8	1.3		
			XS	14 45 06.0	− 8.5		
			LN	Ms=4.9		10.0	3.2
			LE			10.0	1.0
BJI	17.7	276	EP	14 41 49.0	− 1.0		
			P_mE			7.0	0.3
			P_mZ			7.0	0.3
			ES	14 45 03.0	−14.9		
			LN	Ms=5.1		12.0	6.4
			LE			12.0	1.9
TIA	18.0	263	P	14 41 53.0	0.4		
			P_mN			5.0	0.3
			P_mE			5.0	0.6
			P_mZ			5.0	0.9
			EXS	14 45 21.0	−16.3		
			LN	Ms=5.2		11.0	7.0
			LE			11.0	2.9
NJ2	18.5	249	PC	14 42 00.6	1.4		
			LN	Ms=5.1		12.0	2.2
			LE			12.0	5.7
TIY	21.1	271	EP	14 42 28.5	0.6		
			XS	14 46 27.0	− 2.0		
			LN	Ms=4.9		10.0	2.0
			LE			11.0	1.6
HHC	21.1	280	EP	14 42 29.3	1.0		
			XS	14 46 25.0	− 4.7		
			LN	Ms=5.0		15.0	5.2
XAN	25.0	265	EP	14 43 03.6	− 2.8		
			ES	14 47 27.0	0.7		
			LN	Ms=5.1		11.0	2.8
			LE			12.0	2.6
LZH	28.1	272	EP	14 43 33.0	− 2.5		
GTA	30.2	281	EP	14 43 53.2	− 0.9		
			LE	Ms=5.0		11.0	1.9
CD2	30.3	263	EP	14 43 56.4	1.9		
GYA	30.4	253	P	14 43 54.6	− 1.3		
			S	14 48 57.0	2.7		
			LN	Ms=5.4		13.0	3.3
			LE			13.0	4.6
WMQ	38.0	292	EP	14 45 02.0	0.8		
			SCP	14 51 00.0	− 0.3		
			LN	Ms=5.3		12.0	2.6

1984 12 18

O=16 50 41.2 +/− 0.08 SEC
LAT=44.44 N +/− 4.06 KM
LONG=149.11 E +/− 2.12 KM
DEPTH=35 KM +/− 1.25 KM
mb(NEIS)=4.9
STATIONS USED=36, STAND DEV=1.58 SEC

CN2	17.0	276	EP	16 54 35.8	− 2.3		
SNY	18.8	270	EP	16 54 59.4	− 1.0		
TIA	25.6	262	EP	16 56 08.5	− 0.8		
NJ2	26.6	252	EP	16 56 21.4	2.6		
HHC	27.7	275	EP	16 56 29.0	0.4		
BTO	28.9	276	EP	16 56 39.4	0.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LZH	35.2	272	PC	16 57 34.0	− 0.3		
GTA	36.6	279	IPC	16 57 46.3	0.1		
CD2	37.9	264	EP	16 57 56.4	− 0.7		
WMQ	43.2	291	PC	16 58 40.6	− 0.2		

1984 12 18
O=16 57 22.9 +/− 0.09 SEC
LAT=5.95 N +/− 1.39 KM
LONG=125.94 E +/− 2.45 KM
DEPTH=138 KM +/− 0.29 KM
mb(NEIS)=5.1
STATIONS USED=47, STAND DEV=1.47 SEC

QZN	20.4	311	PD	17 01 52.0	1.3		
GZH	20.9	325	EP	17 01 58.0	1.8		
SSE	25.4	350	EP	17 02 40.8	1.3		
NJ2	26.8	366	EP	17 02 53.0	0.7		
XAN	32.1	332	EP	17 03 37.1	− 2.3		
CD2	32.4	322	EP	17 03 41.1	− 1.0		
DL2	33.0	353	P	17 03 49.0	1.5		
			S	17 09 03.0	7.8		
BJI	35.1	346	EP	17 04 04.0	− 0.7		
SNY	35.8	356	IPD	17 04 11.0	0.1		
LZH	36.2	328	EP	17 04 13.0	− 1.6		
CN2	37.7	359	PD	17 04 26.2	− 0.8		
MDJ	38.6	4	PD	17 04 35.0	0.1		
GTA	40.8	328	P	17 04 52.2	− 0.6		
			PCP	17 06 52.4	1.3		
WMQ	50.5	324	EP	17 06 08.2	− 1.0		

1984 12 18
O=17 10 07.1 +/− 0.06 SEC
LAT=44.60 N +/− 4.07 KM
LONG=148.79 E +/− 2.40 KM
DEPTH=30 KM +/− 1.51 KM
mb(NEIS)=4.7
STATIONS USED=12, STAND DEV=1.31 SEC

CN2	16.8	275	EP	17 14 00.6	− 0.8		
BJI	24.4	270	EP	17 15 26.0	1.2		
TIA	25.4	261	EP	17 15 35.1	1.1		
GTA	36.3	279	P	17 17 08.0	− 2.7		
CD2	37.7	264	EP	17 17 22.1	0.2		
WMQ	42.9	291	EP	17 18 07,4	2.2		

1984 12 18
O =17 22 49.7 +/− 0.13 SEC
LAT=44.61 N +/− 3.26 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LONG=80.04 E +/− 1.53 KM							
DEPTH=23 KM +/− 0.51 KM							
ML(CHINA)=4.4/2							
STATIONS USED=15, STAND DEV=2.30 SEC							
WMQ	5.6	95	PN	17 24 15.0	1.5		
			LG_2	17 25 56.4	3.3		
			LN			2.0	1.1
GTA	15.6	102	IPD	17 26 28.7	− 1.3		
			S	17 29 31.9	9.2		
			LG	17 31 12.4			
			LN			1.4	0.04
			LE			1.2	0.04
XAN	24.6	105	EP	17 28 08.4	− 1.4		
TIY	25.2	94	EP	17 28 16.9	0.9		

1984 12 18
O=17 32 42.8 +/− 0.08 SEC
LAT=44.19 N +/− 2.51 KM
LONG=149.16 E +/− 1.59 KM
DEPTH=32 KM +/− 0.40 KM
Ms(CHINA)=4.8/12, Msz(NEIS)=5.1, mb(NEIS)=5.5
STATIONS USED=87, STAND DEV=1.22 SEC

MDJ	14.0	278	EP	17 36 00.0	− 1.3		
CN2	17.1	276	PD	17 36 38.0	− 2.7		
			ES	17 39 39.0	−10.3		
			LE	Ms=4.5		13.0	1.9
SNY	18.8	271	PR	17 37 00.0	− 2.7		
			ES	17 40 20.5	−11.1		
			EXS	17 40 33.0	−10.4		
			LN	Ms=4.7		17.0	1.6
			LE			18.0	2.7
DL2	21.2	265	P	17 37 28.8	0.4		
			S	17 41 15.0	− 2.7		
			LN	Ms=4.2		10.0	0.6
SSE	25.6	248	EP	17 38 11.8	0.9		
			AP	17 38 25.0	5.3		
			EXS	17 42 52.0	2.8		
			LN	Ms=4.9		16.0	2.7
TIA	25.6	262	PC	17 38 11.4	0.1		
			XS	17 42 48.0	− 1.7		
			LN	Ms=4.5		15.0	0.9
			LE			15.0	0.7
NJ2	26.6	253	PD	17 38 21.0	0.7		
			LN	Ms=5.0		17.0	1.8
			LE			17.0	3.4
HHC	27.8	276	IPD	17 38 31.9	0.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIY	28.3	269	EP	17 38 36.6	0.5		
			XS	17 43 34.5	0.6		
			LN	Ms=4.2		15.0	0.4
BTO	28.9	276	EP	17 38 42.4	0.6		
WHN	30.6	255	P	17 38 57.0	0.7		
			AP	17 39 08.0	2.7		
			LN	Ms=4.9		14.0	1.9
XAN	32.5	265	PC	17 39 13.9	0.4		
LZH	35.2	272	PC	17 39 37.0	0.3		
GZH	36.1	246	EP	17 39 44.5	0.5		
GTA	36.6	280	IPC	17 39 49.7	0.8		
			LE	Ms=4.9		12.0	1.2
CD2	37.9	265	IPC	17 39 59.6	0.4		
			P_m Z			0.9	0.2
WMQ	43.3	291	IPC	17 40 44.7	0.9		

1984 12 18

O=17 36 26.1 +/− 0.06 SEC
LAT=44.38 N +/− 2.66 KM
LONG=148.95 E +/− 1.51 KM
DEPTH=35 KM +/− 0.58 KM
Ms(CHINA)=4.7/3,Msz(NEIS)=4.8,mb(NEIS)=5.2
STATIONS USED=36, STAND DEV=1.14 SEC

MDJ	13.8	277	EP	17 39 41.0	− 1.0		
SNY	18.7	271	PD	17 40 44.0	0.2		
BJI	24.6	271	EP	17 41 44.0	− 0.2		
TIA	25.5	262	EP	17 41 53.1	0.0		
SSE	25.5	248	EP	17 41 53.5	0.3		
			LN	Ms=4.7		16.0	2.0
NJ2	26.5	252	EP	17 42 04.9	2.4		
			LN	Ms=4.9		16.0	1.5
			LE			18.0	2.7
TIY	28.2	269	EP	17 42 17.6	− 0.1		
GZH	36.0	245	EP	17 43 25.0	− 1.4		
GTA	36.5	279	IPC	17 43 30.2	0.0		
			AP	17 43 36.9	− 2.9		
GYA	38.3	256	P	17 43 44.8	− 1.0		
WMQ	43.1	291	EP	17 44 25.5	0.6		

1984 12 18

O=17 52 42.8 +/− 0.06 SEC
LAT=44.30 N +/− 3.38 KM
LONG=148.93 E +/− 3.40 KM
DEPTH=24 KM +/− 2.18 KM
Ms(CHINA)=4.5/5,Msz(NEIS)=4.8,mb(NEIS)=5.3
STATIONS USED=40, STAND DEV=1.26 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	13.8	278	EP	17 56 00.0	0.1		
SNY	18.7	271	EP	17 57 00.8	− 0.9		
			SS	18 00 56.0	6.1		
			LN	Ms=4.5		18.0	1.0
			LE		.0	18.0	2.0
DL2	21.1	264	EP	17 57 28.0	0.0		
			S	18 01 13.0	− 3.7		
TIA	25.5	262	EP	17 58 11.0	− 0.1		
SSE	25.5	248	EP	17 58 12.8	1.8		
			AP	17 58 25.0	6.5		
			XS	18 02 52.0	5.0		
			LN	Ms=4.5		13.0	0.9
NJ2	26.5	252	PC	17 58 23.2	2.9		
			ES	18 02 52.0	0.9		
			LN	Ms=4.6		15.0	0.9
HHC	27.6	275	EP	17 58 31.0	0.3		
TIY	28.1	269	EP	17 58 36.4	0.6		
BTO	28.8	276	EP	17 58 41.0	− 0.4		
WHN	30.5	254	EP	17 58 57.0	0.7		
XAN	32.4	265	P	17 59 11.8	− 1.6		
LZH	35.0	272	PC	17 59 36.5	0.1		
GZH	36.0	245	EP	17 59 42.5	− 1.8		
GTA	36.5	279	IPC	17 59 48.6	0.1		
			LE			12.5	0.6
CD2	37.7	264	P	17 59 58.9	− 0.2		
GYA	38.3	256	P	18 00 03.4	− 0.5		
WMQ	43.1	291	PC	18 00 43.1	− 0.3		

1984 12 18

O=19 07 41.2 +/− 0.18 SEC
LAT=44.21 N +/− 4.89 KM
LONG=149.16 E +/− 3.22 KM
DEPTH=37 KM +/− 0.84 KM
Ms(CHINA)=4.0/3, mb(NEIS)=4.9
STATIONS USED=36, STAND DEV=2.35 SEC

MDJ	14.0	278	EP	19 10 57.0	− 2.4		
CN2	17.1	276	EP	19 11 36.0	− 2.7		
SNY	18.8	271	EP	19 12 00.4	− 0.3		
			ES	19 15 13.0	−16.2		
			LE	Ms=4.0		18.0	0.7
TIA	25.6	262	EP	19 13 09.0	− 0.2		
NJ2	26.6	253	EP	19 13 21.8	3.5		
HHC	27.7	276	EP	19 13 29.2	0.2		
TIY	28.3	269	EP	19 13 38.0	4.0		
BTO	28.9	276	EP	19 13 39.3	− 0.4		
LZH	35.2	272	PC	19 14 34.5	0.0		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GTA	36.6	280	PC	19 14 47.3	0.6		
			LE	Ms=4.4		10.5	0.4
CD2	37.9	265	EP	19 14 56.4	− 0.7		
WMQ	43.3	291	PC	19 15 41.4	− 0.2		

1984 12 18
O=19 35 25.9 +/− 0.13 SEC
LAT=37.10 N +/− 3.30 KM
LONG=141.38 E +/− 2.49 KM
DEPTH=41 KM +/− 1.19 KM
Ms(CHINA)=4.4/12, Msz(NEIS)=5.0, mb(NEIS)=5.5
STATIONS USED=88, STAND DEV=2.58 SEC

MDJ	11.7	313	IPC	19 38 17.0	4.2		
CN2	13.8	303	PC	19 38 41.0	− 1.0		
			P_mZ			5.0	0.7
			ES	19 41 03.0	−12.5		
			LE	Ms=4.4		14.0	1.9
SNY	14.5	294	PD	19 38 51.8	0.8		
			LN	Ms=4.6		16.0	1.4
			LE			18.0	3.2
DL2	15.7	282	P	19 39 07.4	1.6		
			ES	19 41 48.0	−10.5		
			LE	Ms=4.3		14.0	1.4
SSE	17.8	256	EP	19 39 32.4	0.5		
			SS	19 43 10.0	2.0		
			LN	Ms=4.5		24.0	2.0
NJ2	19.2	261	PD	19 39 47.8	− 1.7		
			LE			18.0	2.0
TIA	19.5	274	P	19 39 49.8	− 2.6		
			ES	19 43 28.0	3.4		
			LE	Ms=4.4		16.0	1.4
QZH	22.9	244	EP	19 40 36.0	8.4		
TIY	23.0	280	EP	19 40 26.2	− 2.0		
			S	19 44 19.0	−12.8		
			LN	Ms=4.4		13.0	0.5
			LE			13.0	0.8
WHN	23.3	261	EP	19 40 32.0	0.2		
HHC	23.4	288	P	19 40 33.0	0.3		
BTO	24.6	287	EP	19 40 42.9	− 1.3		
XAN	26.5	273	IPD	19 41 01.6	− 0.4		
GZH	27.9	247	EP	19 41 15.2	0.9		
LZH	30.0	279	EP	19 41 32.5	− 1.3		
GYA	31.2	260	PC	19 41 43.2	− 1.0		
			PC	19 44 38.0	0.5		
			S	19 46 44.0	− 2.8		
CD2	31.7	269	EP	19 41 47.2	− 0.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	32.9	245	PD	19 42 01.0	1.8		
WMQ	40.8	296	IPC	19 43 06.2	0.7		
			P_mZ			0.8	0.1
			PP	19 44 46.0	3.2		
			S	19 49 16.0	2.2		

1984 12 18
O=23 18 12.5 +/− 0.06 SEC
LAT=44.45 N +/− 2.49 KM
LONG=149.15 E +/− 1.30 KM
DEPTH=38 KM +/− 0.89 KM
mb(NEIS)=4.9
STATIONS USED=28, STAND DEV=1.14 SEC

MDJ	14.0	277	EP	23 21 29.0	− 1.1		
SNY	18.8	270	PD	23 22 31.2	− 0.6		
TIA	25.6	262	EP	23 23 40.2	− 0.5		
NJ2	26.7	252	PC	23 23 52.2	2.1		
HHC	27.7	275	EP	23 24 00.4	0.5		
BTO	28.9	276	EP	23 24 10.5	− 0.1		
CD2	37.9	264	EP	23 25 27.4	− 1.0		
GYA	38.5	256	P	23 25 32.6	− 0.7		
WMQ	43.2	291	P	23 26 12.0	0.0		

1984 12 18
O=23 33 34.1 +/− 0.15 SEC
LAT=39.95 N +/− 1.56 KM
LONG=118.66 E +/− 1.52 KM
DEPTH=7 KM +/− 0.31 KM
ML(CHINA)=3.1/9
STATIONS USED=9, STAND DEV=2.70 SEC

BJI	1.9	273	EPN	23 34 04.0	− 3.4		
			ESG	23 34 28.5	− 5.4		
			S_mN	ML=3.5		0.5	0.3
			S_mE			0.5	0.5
TIA	3.9	198	EPN	23 34 35.0	− 1.2		
			SN	23 35 23.9	0.6		
			S_mN	ML=2.7		0.4	0.01
			S_mE			0.4	0.02
SNY	4.2	61	EPG	23 34 51.0	3.3		
			SG	23 35 45.2	0.4		
			S_mN	ML=3.1		0.7	0.05
			S_mE			0.7	0.02

1984 12 18
O=23 45 42.6 +/− 0.15 SEC
LAT=26.72 N +/− 1.50 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LONG=117.83 E			**+/- 1.72 KM**				
DEPTH=0 KM			**+/- 0.47 KM**				
ML(CHINA)=3.7/8							
STATIONS USED=10. STAND DEV=3.30 SEC							
QZH	1.9	158	EPN	23 46 15.0	- 1.5		
			SN	23 46 38.0	- 3.4		
			S_mN	ML=3.7		0.3	0.6
			S_mE			0.3	0.7
SSE	5.3	33	EPG	23 47 22.0	6.5		
			S_mE	ML=3.7		1.0	0.08
GZH	5.4	229	EPN	23 47 08.0	1.0		
			S_mN	ML=4.0		0.8	0.2
			S_mE			0.8	0.1
1984 12 19							
O=00 16 55.9			**+/- 0.08 SEC**				
LAT=44.14 N			**+/- 3.15 KM**				
LONG=149.24 E			**+/- 1.87 KM**				
DEPTH=49 KM			**+/- 1.01 KM**				
Ms(CHINA)=4.6/12, mb(NEIS)=5.3							
STATIONS USED=84, STAND DEV=1.56 SEC							
MDJ	14.1	278	EP	00 20 12.5	- 1.8		
CN2	17.1	277	PD	00 20 50.0	- 3.5		
			AP	00 20 58.0	- 4.8		
			ES	00 23 54.0	- 8.8		
			LN	Ms=4.5		12.0	1.5
SNY	18.9	271	IPD	00 21 15.1	- 0.1		
			ES	00 24 41.0	- 1.4		
			LN	Ms=4.6		16.0	1.6
			LE			19.0	2.1
DL2	21.3	265	P	00 21 40.4	- 0.1		
			LN	Ms=4.5		11.0	0.6
			LE			16.0	1.3
SSE	25.6	248	EP	00 22 24.0	1.2		
			XP	00 22 38.0	- 2.8		
			XS	00 27 03.0	- 2.7		
			LN	Ms=4.6		16.0	1.5
TIA	25.7	263	P	00 22 23.7	0.4		
			XP	00 22 50.7	9.5		
			ES	00 26 55.0	8.9		
			S_mN			9.0	0.5
			S_mE			11.0	0.7
			LN	Ms=4.6		15.0	0.8
			LE			15.0	1.3
NJ2	26.6	253	EP	00 22 33.2	1.0		
			LN	Ms=4.9		15.0	0.8
			LE			16.0	2.4
HHC	27.8	276	IPD	00 22 44.1	0.9		
			ES	00 27 25.0	3.5		
			LE	Ms=4.5		10.0	0.7
TIY	28.4	269	P	00 22 48.6	0.5		
			P_mZ			1.0	0.06
BTO	29.0	276	EP	00 22 53.7	- 0.1		
WHN	30.6	255	P	00 23 09.5	1.3		
			LN	Ms=4.9		16.0	2.2
XAN	32.6	265	PC	00 23 25.0	- 0.4		
LZH	35.3	272	IPC	00 23 49.0	0.5		
GZH	36.1	246	EP	00 23 57.0	1.3		
GTA	36.7	280	IPC	00 24 01.7	0.9		
			S	00 29 47.0	6.2		
			LE	Ms=4.8		13.0	1.0
CD2	37.9	265	IPC	00 24 12.0	1.0		
			P_mZ			0.8	0.2
			(S)	00 30 02.5	3.1		
GYA	38.5	257	PC	00 24 15.8	0.3		
KMI	42.1	258	PU	00 24 46.0	0.6		
			ES	00 30 58.0	- 3.5		
			LN	Ms=4.8		18.0	1.0
WMQ	43.3	292	IPC	00 24 56.0	0.3		
			(S)	00 31 25.0	5.1		
1984 12 19							
O=00 49 00.1			**+/- 0.08 SEC**				
LAT=44.12 N			**+/- 3.15 KM**				
LONG=149.26 E			**+/- 1.87 KM**				
DEPTH=48 KM			**+/- 1.07 KM**				
Ms(CHINA)=4.6/12, Msz(NEIS)=4.9, mb(NEIS)=5.2							
STATIONS USED=74, STAND DEV=1.58 SEC							
MDJ	14.1	278	EP	00 52 17.3	- 1.5		
CN2	17.1	277	PD	00 52 55.0	- 2.9		
			AP	00 53 03.0	- 4.2		
			ES	00 55 59.0	- 8.7		
			LN	Ms=4.6		13.0	2.3
SNY	18.9	271	IPD	00 53 19.6	0.0		
DL2	21.3	265	EP	00 53 44.6	- 0.3		
			ES	00 57 33.0	- 0.7		
			LN	Ms=4.6		15.0	0.8
			LE			15.0	1.5
SSE	25.6	249	EP	00 54 29.8	2.7		
			XS	00 59 08.0	- 1.8		
			LN	Ms=4.6		14.0	1.4
TIA	25.7	263	P	00 54 28.6	1.0		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			XP	00 54 41.0	− 4.4		
			EXS	00 59 08.0	− 2.7		
			SmN			10.0	0.6
			SmE			11.0	0.8
			LN	Ms=4.9		17.0	2.0
			LE			17.0	2.7
NJ2	26.6	253	EP	00 54 38.5	2.0		
			LN	Ms=4.9		16.0	1.5
			LE			15.0	2.1
HHC	27.8	276	PD	00 54 48.0	0.4		
			AP	00 55 02.0	2.7		
			ES	00 59 27.0	1.0		
			LN	Ms=4.8		14.0	0.9
TIY	28.4	269	E(P)	00 54 53.0	0.5		
			LN	Ms=4.6		14.0	0.9
			LE			16.0	0.8
BTO	29.0	276	EP	00 54 58.7	0.5		
XAN	32.6	265	EP	00 55 29.1	− 0.7		
LZH	35.3	272	EP	00 55 53.5	0.6		
GZH	36.1	246	EP	00 55 55.0	− 5.0		
GTA	36.7	280	IPC	00 56 06.1	0.9		
			LE			13.0	1.3
CD2	38.0	265	IPC	00 56 16.4	1.1		
			(S)	01 02 07.5	3.7		
			LN	Ms=4.7		23.0	1.3
KMI	42.1	258	EE	00 56 44.0	− 5.7		
			EP	01 02 53.0	−13.0		
			LS	Ms=4.9		20.0	1.5
WMQ	43.4	292	PC	00 57 00.0	− 0.1		
			(S)	01 03 32.0	7.4		

1984 12 19
O=06 00 03.5 +/− 0.20 SEC
LAT=41.71 N +/− 2.29 KM
LONG=88.42 E +/− 2.12 KM
DEPTH=45 KM +/− 0.95 KM
Msz(NEIS)=4.2, mb(NEIS)=4.7, ML(CHINA)=5.1/3
STATIONS USED=28, STAND DEV=2.79 SEC

WMQ	2.2	346	IPC	06 00 40.7	2.4		
			I	06 01 10.4			
			SmN	ML=5.1		2.0	12.4
LZH	13.3	110	EP	06 03 20.5	8.7		
CD2	16.4	126	EP	06 03 53.4	1.4		
HHC	17.4	85	P	06 04 04.2	− 0.9		
XAN	17.9	108	EP	06 04 09.8	− 1.1		
KMI	20.4	139	PC	06 04 38.5	− 0.9		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			XP	06 04 51.0	− 4.4		
			ES	06 08 13.0	− 7.5		
BJI	21.0	85	EP	06 04 46.0	0.1		
GYA	21.4	129	P	06 04 50.2	0.6		
TIA	22.9	94	EP	06 05 05.4	0.5		
WHN	23.6	109	P	06 05 14.0	2.3		

1984 12 19
O=07 51 36.0 +/− 0.17 SEC
LAT=16.92 S +/− 2.49 KM
LONG=172.40 E +/− 3.01 KM
DEPTH=36 KM +/− 0.64 KM
Ms(CHINA)=5.0/4, Msz(NEIS)=5.1, mb(NEIS)=5.4
STATIONS USED=60, STAND DEV=1.64 SEC

NJ2	70.7	313	PD	08 02 50.0	− 1.0		
MDJ	72.6	329	EP	08 03 02.8	0.5		
WHN	73.1	310	P	08 03 07.0	1.8		
SNY	73.8	324	IPC	08 03 10.0	0.6		
			S	08 12 41.0	3.6		
			LE	Ms=5.0		21.0	0.9
CN2	74.1	326	PR	08 03 10.2	− 1.0		
			PmZ			5.0	0.6
			EAP	08 03 22.2	0.8		
			ES	08 12 38.0	− 3.0		
			SmE			8.0	0.5
			SS	08 17 24.0	− 3.1		
			LE	Ms=5.0		15.0	0.6
TIA	74.3	316	EP	08 03 12.4	0.2		
			LN	Ms=5.2		39.0	1.9
			LE			39.0	2.0
GYA	77.0	303	P	08 03 27.0	− 1.0		
TIY	78.2	315	EP	08 03 36.0	1.3		
XAN	78.8	310	EP	08 03 38.0	0.1		
KMI	79.7	300	EP	08 03 44.0	1.4		
HHC	80.5	317	PD	08 03 48.0	1.1		
CD2	81.3	305	EP	08 03 51.2	0.2		
BTO	81.3	316	EP	08 03 51.9	0.5		
LZH	83.5	310	EP	08 04 04.5	2.1		
GTA	87.8	312	P	08 04 24.2	0.6		
			AP	08 04 35.1	1.4		
WMQ	97.8	313	EP	08 05 09.2	− 0.7		

1984 12 19
O=14 28 20.9 +/− 0.16 SEC
LAT=4.35 S +/− 1.77 KM
LONG=151.13 E +/− 2.15 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=71 KM +/- 0.90 KM							
mb(NEIS)=4.9							
STATIONS USED=18, STAND DEV=1.99 SEC							
BJI	54.6	327	(P)	14 37 44.0	- 1.0		
XAN	55.2	317	EP	14 37 49.8	0.7		
KMI	55.4	304	EP	14 37 52.5	1.7		
CD2	57.2	311	EP	14 38 05.0	1.4		
LZH	59.8	316	EP	14 38 24.0	2.4		
GTA	64.2	317	P	14 38 45.0	- 6.3		
WMQ	74.3	317	EP	14 39 55.5	2.2		
1984 12 19							
O=16 42 55.7 +/- 0.05 SEC							
LAT=9.03 S +/- 0.64 KM							
LONG=119.14 E +/- 0.80 KM							
DEPTH=108 KM +/- 0.24 KM							
mb(NEIS)=4.7							
STATIONS USED=13, STAND DEV=0.87 SEC							
CD2	42.4	340	P	16 50 41.9	0.7		
XAN	43.9	347	EP	16 50 53.6	- 0.2		
GTA	51.4	340	IPD	16 51 53.0	0.6		
WMQ	59.8	334	EP	16 52 52.4	- 0.4		
1984 12 19							
O=22 15 19.3 +/- 0.07 SEC							
LAT=22.33 N +/- 2.07 KM							
LONG=144.22 E +/- 2.32 KM							
DEPTH=145 KM +/- 1.60 KM							
mb(NEIS)=4.3							
STATIONS USED=16, STAND DEV=1.43 SEC							
SSE	22.3	297	EP	22 20 06.4	0.6		
MDJ	25.3	335	EP	22 20 35.5	1.3		
SNY	26.0	323	PD	22 20 40.8	- 0.3		
CN2	26.5	328	EP	22 20 44.1	- 0.9		
GYA	34.4	284	P	22 21 55.4	0.6		
CD2	37.0	292	P	22 22 17.6	0.6		
WMQ	50.9	308	EP	22 24 09.5	1.0		
1984 12 20							
O=00 47 24.0 +/- 0.20 SEC							
LAT=25.03 N +/- 1.92 KM							
LONG=122.12 E +/- 2.03 KM							
DEPTH=10 KM +/- 3.35 KM							
Ms(CHINA)=3.6/2, ML(CHINA)=3.9/3							
STATIONS USED=14, STAND DEV=4.04 SEC							
QZH	3.2	269	EPN	00 48 13.5	- 2.2		
			SN	00 48 49.8	- 4.8		
			S_mN	ML=3.9		0.7	0.6
			S_mE			0.7	0.3
			LN	Ms=3.4		11.0	0.9
SSE	6.1	352	EPN	00 48 58.2	1.5		
			LE	Ms=3.8		12.0	1.2
GZH	8.3	258	E(P)	00 49 38.0	11.1		
			ES	00 50 49.4	-12.0		
			LN			1.0	0.2
			LE			0.8	0.04
1984 12 20							
O=09 27 07.2 +/- 0.08 SEC							
LAT=23.28 N +/- 3.28 KM							
LONG=125.47 E +/- 2.28 KM							
DEPTH=112 KM +/- 3.46 KM							
mb(NEIS)=4.2							
STATIONS USED=8, STAND DEV=1.69 SEC							
SNY	18.6	355	EP	09 31 16.0	-1..9		
CN2	20.5	359	EP	09 31 37.0	-1..1		
CD2	20.7	296	P	09 31 40.2	-0..8		
HHC	21.1	329	EP	09 31 44.0	-0..3		
GTA	27.0	312	EP	09 32 41.0	-0..4		
1984 12 20							
O=11 17 30.6 +/- 0.13 SEC							
LAT=36.20 N +/- 1.92 KM							
LONG=70.43 E +/- 1.47 KM							
DEPTH=155 KM +/- 0.59 KM							
mb(NEIS)=5.1							
STATIONS USED=73, STAND DEV=1.59 SEC							
GTA	23.4	73	IPC	11 22 28.8	2.1		
			P_mZ			0.8	0.2
			AP	11 23 01.1	3.9		
			S	11 26 22.0	- 3.1		
			S_mE			9.0	0.4
LZH	26.9	80	EP	11 23 00.5	0.9		
CD2	28.2	91	P	11 23 12.1	1.1		
KMI	29.8	102	PC	11 23 25.0	- 0.4		
XAN	31.4	82	IPC	11 23 39.4	- 0.3		
GYA	32.3	97	P	11 23 47.8	0.6		
			XP	11 24 36.0	- 1.9		
			S	11 28 48.0	- 0.4		
HHC	32.3	69	PC	11 23 47.6	0.2		
TIY	33.4	74	PC	11 23 56.8	0.0		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			P_mZ			1.0	0.07
BJI	35.9	69	EP	11 24 18.0	0.2		
WHN	36.9	85	P	11 24 27.5	1.5		
TIA	37.4	75	PC	11 24 31.2	0.8		
GZH	39.2	97	EP	11 24 46.7	1.1		
NJ2	40.0	81	PU	11 24 51.0	− 0.8		
			P_mZ			6.0	0.4
			PCP	11 26 53.0	− 1.0		
SNY	41.1	65	PD	11 25 00.8	− 0.5		
CN2	42.2	62	PD	11 25 09.2	− 0.5		
SSE	42.2	81	EP	11 25 10.0	0.2		
			P_mZ			1.0	0.07
MDJ	45.0	60	EP	11 25 33.0	0.8		

1984 12 20
O=15 18 53.3 +/− 0.14 SEC
LAT=39.91 N +/− 1.56 KM
LONG=118.48 E +/− 1.12 KM
DEPTH=20 KM +/− 0.30 KM
ML(CHINA)=3.2/11
STATIONS USED=12, STAND DEV=2.70 SEC

BJI	1.8	275	PN	15 19 21.0	− 2.4		
			ESN	15 19 44.0	− 1.7		
			S_mE	ML=3.8	0.5	1.0	
DL2	2.6	111	EPG	15 19 39.0	− 1.0		
			ESN	15 20 10.0	2.3		
			S_mN	ML=3.1	0.8	0.1	
			S_mE		0.7	0.07	
TIA	3.8	196	PN	15 19 55.6	2.7		
			SN	15 20 40.3	2.0		
			S_mN	ML=3.2	0.5	0.04	
			S_mE		0.5	0.06	
SNY	4.3	61	PGC	15 20 10.1	0.5		
			SG	15 21 08.9	0 2		
			S_mN	ML=3.1	0.6	0.04	
			S_mE		0.6	0.03	
TIY	5.2	247	EPG	15 20 21.4	− 3.8		
			SN	15 21 24.0	11.2		
			S_mE	ML=3.1	0.6	0.02	
			S_mE		0.6	0.02	
HHC	5.4	282	EPG	15 20 28.2	0.1		
			ESG	15 21 36.2	− 5.2		
			S_mE	ML=3.5	0.8	0.05	

1984 12 20
O=16 26 14.4 +/− 0.28 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=11.70 N +/− 6.84 KM							
LONG=86.32 W +/− 8.98 KM							
DEPTH=57 KM +/− 1.71 KM							
Ms(CHINA)=5.8/9, mb(NEIS)=5.4							
STATIONS USED=65, STAND DEV=2.78 SEC							
CN2	117.6	334	EPKP	16 44 41.0	−14.2		
SNY	120.1	334	EPKP	16 45 00.0	0.1		
			PP	16 46 28.5	0.8		
			LN	Ms=5.7		28.0	1.7
			LE			29.0	2.1
BJI	124.5	339	EPKP	16 45 09.0	0.6		
			LN	Ms=5.6		20.0	1.2
WMQ	124.5	5	EPKP	16 45 08.5	− 0.1		
HHC	125.2	343	EPKP	16 45 11.3	1.4		
BTO	125.8	344	EPKP	16 45 11.9	0.8		
TIA	127.5	336	PKPD	16 45 15.0	0.7		
			LN	Ms=5.8		15.0	0.8
			LE			19.5	1.5
TIY	127.8	341	EPKP	16 45 16.2	1.2		
			LN	Ms=5.7		19.0	0.8
			LE			19.0	1.3
GTA	128.9	353	IPKP	16 45 18.3	1.2		
			LE	Ms=6.0		12.5	2.0
SSE	129.9	328	PKPR	16 45 18.0	− 0.9		
			PKP_mZ			1.2	0.08
			PP	16 47 33.0	− 0.8		
			LN	Ms=5.7		18.0	1.5
NJ2	130.3	331	EPKP	16 45 20.0	0.4		
			PP	16 47 34.0	− 2.1		
			LE	Ms=5.9		22.0	2.9
LZH	131.5	348	EPKP	16 45 23.5	1.3		
XAN	132.3	342	EPKP	16 45 21.9	− 1.6		
WHN	133.5	335	EPKP	16 45 27.5	1.7		
CD2	136.5	347	PKP	16 45 33.2	1.7		
			PP	16 48 24.0	8.5		
			LE	Ms=5.8		26.0	2.5
GYA	140.0	341	PKP	16 45 40.2	− 2.3		
GZH	140.4	330	EPKP	16 45 37.0	− 1.4		
			PP	16 48 38.0	− 1.9		
KMI	142.4	346	PKPC	16 45 43.0	1.0		
QZN	145.6	332	PKP	16 45 49.2	2.0		

1984 12 20
O=17 54 31.9 +/− 0.16 SEC
LAT=10.71 N +/− 2.01 KM
LONG=93.64 E +/− 1.86 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=33 KM +/- 0.04 KM							
mb(NEIS)=4.5							
STATIONS USED=28, STAND DEV=1.79 SEC							
KMI	16.7	29	PC	17 58 30.0	4.1		
GYA	19.9	36	P	17 59 05.0	1.0		
CD2	22.2	23	EP	17 59 27.7	0.5		
LZH	26.9	18	EP	18 00 11.5	- 1.0		
XAN	27.1	28	EP	18 00 12.2	- 2.0		
WHN	27.6	41	EP	18 00 18.0	- 0.3		
GTA	29.1	9	EP	18 00 31.8	- 0.5		
NJ2	31.5	43	EP	18 00 53.4	- 0.1		
WMQ	33.4	352	EP	18 01 09.6	- 0.4		
CN2	42.9	34	PD	18 02 29.2	- 0.7		
1984 12 21							
O=03 24 04.8 +/- 0.08 SEC							
LAT=11.30 S +/- 2.39 KM							
LONG=66.35 E +/- 1.83 KM							
DEPTH=9 KM +/- 0.23 KM							
Ms(CHINA)=5.2/8, Msz(NEIS)=5.2, mb(NEIS)=5.5							
STATIONS USED=74, STAND DEV=1.17 SEC							
KMI	50.7	44	EP	03 33 08.5	1.0		
			ES	03 40 20.0	- 2.0		
			LN	Ms=5.2		18.0	1.9
GYA	54.2	45	P	03 33 33.4	- 0.6		
			S	03 41 02.0	- 8.5		
CD2	55.2	39	P	03 33 40.5	- 0.7		
			ES	03 41 27.5	3.9		
GZH	57.3	53	EP	03 33 59.0	3.1		
			(S)	03 41 58.0	7.1		
WMQ	58.2	18	IPD	03 34 01.7	- 0.6		
			P_mZ			1.8	0.3
			PCP	03 34 54.5	1.8		
			(S)	03 41 57.5	- 5.4		
LZH	58.9	35	EP	03 34 08.0	0.5		
GTA	59.3	29	PD	03 34 09.6	- 0.3		
			S	03 42 19.5	2.4		
			LE	Ms=5.1		17.0	1.4
XAN	60.6	40	EP	03 34 17.2	- 1.5		
			S	03 42 38.0	4.5		
TIY	65.1	39	PC	03 34 48.6	- 0.2		
			LN	Ms=4.9		15.0	0.4
			LE			15.0	0.4
BTO	65.5	35	EP	03 34 51.3	- 0.3		
NJ2	66.2	47	PC	03 34 55.2	- 0.3		
HHC	66.6	35	P	03 35 00.0	1.6		
TIA	67.2	42	PC	03 35 02.0	- 0.3		
SSE	67.4	49	P	03 35 03.6	0.3		
			(S)	03 44 00.0	1.9		
			LN	Ms=5.2		22.0	1.5
BJI	68.8	38	EP	03 35 12.0	- 0.3		
			ES	03 44 14.0	- 1.4		
CN2	76.7	39	EP	03 35 57.0	- 1.7		
			P_mZ			4.0	0.3
			ES	03 45 38.0	- 6.8		
			S_mE			6.0	0.5
			LE	Ms=5.2		16.0	1.0
MDJ	79.7	40	EP	03 36 15.2	- 0.1		
1984 12 21							
O=04 48 13.1 +/- 0.04 SEC							
LAT=36.53 N +/- 0.51 KM							
LONG=70.33 E +/- 0.74 KM							
DEPTH=205 KM +/- 0.21 KM							
mb(NEIS)=4.5							
STATIONS USED=14, STAND DEV=0.80 SEC							
WMQ	15.1	55	P	04 51 38.7	0.7		
			P_mZ			1.5	0.05
			(S)	04 54 29.4	9.1		
1984 12 21							
O=14 37 16.1 +/- 0.10 SEC							
LAT=4.68 S +/- 1.42 KM							
LONG=153.28 E +/- 1.75 KM							
DEPTH=57 KM +/- 0.54 KM							
Ms(CHINA)=4.9/6, Msz(NEIS)=4.9, mb(NEIS)=5.3							
STATIONS USED=81, STAND DEV=1.21 SEC							
QZH	44.8	3.12	EP	14 45 26.0	- 0.2		
SSE	46.9	3.21	P	14 45 43.5	0.0		
			AP	14 45 56.8	- 1.1		
			XS	14 52 48.0	- 6.6		
			LN	Ms=4.8		28.0	1.3
			LE			28.0	1.0
NJ2	49.1	3.20	PC	14 46 01.0	1.1		
WHN	51.1	3.15	P	14 46 18.5	2.9		
TIA	52.9	3.23	EP	14 46 28.5	- 0.7		
MDJ	53.5	3.39	EP	14 46 32.5	- 0.9		
SNY	53.6	3.32	EP	14 46 34.8	0.4		
			S	14 53 58.0	- 4.4		
			LN	Ms=4.9		27.0	1.1
			LE			27.0	0.9
CN2	54.4	335	PC	14 46 39.3	- 0.8		
			P_mZ			4.0	0.4

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			AP	14 46 53.0	− 1.7		
			PCP	14 47 42.5	0.4		
			S	14 54 07.0	− 5.9		
			XS	14 54 28.5	− 9.3		
			SCS	14 56 19.0	− 0.3		
			LN	Ms=5.0		15.0	0.7
GYA	54.7	307	P	14 46 41.4	− 1.1		
BJI	56.1	326	EP	14 46 52.0	− 0.2		
TIY	56.7	321	EP	14 46 56.8	− 0.3		
XAN	56.9	316	EP	14 46 56.6	− 1.4		
KMI	57.3	303	PC	14 47 02.0	0.6		
			AP	14 47 14.0	− 1.8		
			XP	14 47 21.0	− 1.5		
			ES	14 54 52.0	− 0.2		
CD2	59.0	310	EP	14 47 12.5	− 0.6		
			(S)	14 55 10.0	− 4.3		
			LE	Ms=5.1		23.0	1.6
HHC	59.2	324	EP	14 47 14.8	0.2		
BTO	60.0	322	EP	14 47 19.8	− 0.1		
LZH	61.5	315	EP	14 47 30.0	0.0		
			P_mZ			1.5	0.09
GTA	65.9	317	P	14 47 59.1	0.2		
			LE			7.5	0.4
WMQ	76.0	317	P	14 49 00.0	0.3		
			AP	14 49 13.8	− 0.8		
			ES	14 58 37.0	− 0.6		
			SKS	14 59 03.5	4.9		
			SCS	14 59 06.6	2.4		

1984 12 21

O=18 05 58.6 +/− 0.15 SEC
LAT=17.58 N +/− 1.45 KM
LONG=121.44 E +/− 2.06 KM
DEPTH=40 KM +/− 0.94 KM
Ms(CHINA)=4.3/4, mb(NEIS)=4.7
STATIONS USED=46, STAND DEV=1.97 SEC

QZH	7.8	340	EPN	18 07 56.2	3.9		
			LN	Ms=3.6		12.0	0.5
GZH	9.4	307	EP	18 08 11.0	− 3.0		
			ES	18 09 55.5	− 3.7		
			LN			1.0	0.1
			LE			0.8	0.2
QZN	11.1	279	P	18 08 34.6	− 3.4		
			S	18 10 37.0	− 5.0		
			LE	Ms=4.4		20.0	4.1
NJ2	14.6	351	PC	18 09 24.0	− 0.4		
			LN	Ms=4.3		13.0	0.4
			LE			11.0	1.0
GYA	16.3	305	P	18 09 54.0	7.7		
TIA	18.9	349	EP	18 10 18.9	− 0.3		
KMI	18.9	296	EP	18 10 19.5	0.0		
			XP	18 10 33.5	0.0		
			ES	18 13 44.0	− 3.1		
			LE	Ms=4.6		16.0	2.3
XAN	19.9	328	EP	18 10 28.6	− 0.7		
CD2	20.8	312	EP	18 10 39.8	0.2		
TIY	21.6	340	EP	18 10 47.5	0.6		
LZH	24.1	323	EP	18 11 13.5	1.2		
			P_mZ			2.0	0.06
SNY	24.2	3	EP	18 11 12.2	− 0.9		
HHC	24.7	341	P	18 11 19.8	2.1		
BTO	25.0	339	EP	18 11 20.2	− 0.1		
CN2	26.4	6	EP	18 11 31.0	− 2.2		
GTA	28.7	323	P	18 11 55.2	0.2		
WMQ	38.6	319	P	18 13 20.6	0.4		

1984 12 21

O=18 47 50.0 +/− 0.28 SEC
LAT=6.01 S +/− 4.41 KM
LONG=150.01 E +/− 5.25 KM
DEPTH=43 KM +/− 0.57 KM
Ms(CCHINA)=5.8/28, Msz(NEIS)=6.1, mb(NEIS)=5.6
STATIONS USED=91, STAND DEV=3.80 SEC

QZH	43.4	316	PU	18 55 50.5	0.0		
			S	19 02 14.0	− 1.3		
			S_mN			9.0	0.6
			LN	Ms=5.7		24.0	7.7
			LE			24.0	9.7
GZH	46.0	310	EP	18 56 15.5	3.6		
			ES	19 03 00.0	6.2		
			S_mN			24.0	3.8
			S_mE			24.0	5.8
			LE	Ms=5.7		22.0	10.4
SSE	46.1	324	PU	18 56 12.0	0.0		
			XP	18 56 30.0	1.5		
			PP	18 58 08.0	8.3		
			ES	19 02 56.0	2.1		
			XS	19 03 17.0	3.9		
			SS	19 06 37.0	26.5		
			LN	Ms=6.0		20.0	10.5
			LE			20.0	14.7
QZN	46.7	303	P	19 56 19.4	2.0		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	19 03 03.0	− 0.8		
			LN	Ms=5.6		20.0	4.4
			LE			20.0	4.3
NJ2	48.1	323	PU	18 56 27.0	− 1.1		
			AP	18 56 40.0	0.5		
			S	19 03 26.0	3.0		
			LN	Ms=5.9		21.0	6.5
			LE			21.0	10.4
WHN	49.9	318	EP	18 56 47.5	5.8		
			ES	19 03 59.0	11.4		
			LN	Ms=5.7		18.0	6.8
DL2	51.9	331	P	18 57 00.0	3.3		
			ES	19 04 22.5	7.4		
			LN	Ms=5.9		18.0	5.3
			LE			18.0	8.6
TIA	52.1	326	EP	18 56 59.3	0.7		
			PCS	19 02 04.2	− 1.9		
			ES	19 04 21.0	2.5		
			LN	Ms=5.9		16.0	6.0
			LE			16.0	5.6
GYA	53.0	309	P	18 57 11.8	6.6		
			XP	18 57 30.0	8.3		
			S	19 04 42.0	11.5		
			LE	Ms=5.4		18.0	3.3
SNY	53.4	335	PU	18 57 07.0	− 1.1		
			P_mZ			7.0	1.2
			AP	18 57 20.0	0.3		
			XP	18 57 26.0	1.2		
			PP	18 59 13.0	3.8		
			S	19 04 36.0	0.1		
			XS	19 04 56.0	0.6		
			LN	Ms=5.8		32.0	8.6
			LE			27.0	9.8
MDJ	53.6	341	PC	18 57 00.0	−10.1		
			XP	18 57 28.0	1.3		
			S_mN			26.0	5.9
CN2	54.3	338	PC	18 57 15.0	− 0.1		
			P_mZ			6.0	1.3
			AP	18 57 27.5	0.8		
			ES	19 04 51.0	2.3		
			S_mN			8.0	1.0
			S_mE			8.0	0.9
			XS	19 05 12.0	3.9		
			SS	19 08 30.0	1.3		
			SSS	19 10 30.0			
			LN	Ms=5.7		16.0	3.7
			LE			16.0	3.3
KMI	55.4	306	EP	18 57 25.0	1.8		
			AP	18 57 40.0	5.5		
			ES	19 05 04.5	0.9		
			LN	Ms=5.3		12.0	1.6
BJI	55.4	328	EP	18 57 23.0	0.0		
			ES	19 05 03.0	− 0.3		
			S_mN			9.0	0.7
			S_mE			11.0	1.0
			LN	Ms=5.7		17.0	5.5
			LE			16.0	1.4
XAN	55.6	318	EP	18 57 22.5	− 2.1		
			ES	19 05 03.0	− 3.3		
			LN	Ms=5.8		19.0	5.5
			LE			19.0	4.8
TIY	55.8	324	P	18 57 27.5	1.5		
			P_mZ			8.0	0.6
			PS	19 05 26.0			
			S_mE			10.0	1.0
			LN	Ms=6.0		20.0	9.3
			LE			20.0	6.9
CD2	57.5	312	EP	18 57 37.4	− 0.3		
			ES	19 05 30.0	− 0.5		
			LE	Ms=5.9		27.0	13.8
HHC	58.5	326	EP	18 57 44.0	− 0.8		
			S	19 05 47.0	3.3		
			LN	Ms=5.9		19.0	7.4
			LE			19.0	4.4
BTO	59.2	325	EP	18 57 50.5	0.9		
LZH	60.2	317	EP	18 57 56.0	− 0.9		
			ES	19 06 09.0	2.6		
			S_mE			9.0	0.9
			LE	Ms=5.8		22.0	8.2
GTA	64.7	318	EP	18 58 26.2	− 0.5		
			S	19 07 05.0	2.2		
			S_mN			10.0	0.5
			LE	Ms=5.5		18.0	2.6
WMQ	74.8	318	P	18 59 27.7	− 0.6		
			AP	18 59 41.5	1.5		
			S	19 09 01.7	0.6		
			XS	19 09 23.0	2.2		

1984 12 21

O= 19 01 57.4 +/− 0.15 SEC

LAT= 6.18 S +/− 2.12 KM

LONG= 150.02 E +/− 3.09 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=32 KM +/- 0.17 KM							
Ms(CHINA)=5.4/2, Msz(NEIS)=5.3, mb(NEIS)=5.3							
STATIONS USED=54, STAND DEV=2.11 SEC							
NJ2	48.2	323	EP	19 10 38.8	1.1		
WHN	50.0	318	EP	19 11 01.0	9.8		
			LE	Ms=5.4		20.0	3.7
TIA	52.2	326	EP	19 11 08.8	0.6		
GYA	53.1	309	P	19 11 18.0	3.4		
SNY	53.5	335	EP	19 11 17.5	- 0.3		
CN2	54.5	338	EP	19 11 24.0	- 0.8		
KMI	55.5	306	EP	19 11 34.0	1.5		
			AP	19 11 48.5	7.0		
BJI	55.6	328	EP	19 11 31.5	- 1.2		
XAN	55.8	318	EP	19 11 32.4	- 1.8		
CD2	57.6	312	EP	19 11 45.2	- 1.9		
BTO	59.3	325	EP	19 11 00.8	1.6		
LZH	60.3	317	EP	19 12 05.5	- 0.9		
GTO	64.8	318	P	19 12 36.3	0.1		
WMQ	74.9	318	EP	19 13 36.0	- 1.8		
1984 12 22							
O=00 00 36.7			**+/- 0.13 SEC**				
LAT=50.04 N			**+/- 3.06 KM**				
LONG=142.59 E			**+/- 2.51 KM**				
DEPTH=33 KM			**+/- 0.33 KM**				
Ms(CHINA)=5.3/25, Msz(NEIS)=4.7, mb(NEIS)=5.3							
STATIONS USED=84, STAND DEV=2.10 SEC							
CN2	13.3	248	EP	00 03 44.0	- 1.5		
			P_mN			5.0	1.0
			P_mE			5.0	1.1
			P_mZ			5.0	1.3
			AP	00 03 51.5			
			ES	00 06 06.0	- 6.8		
			LG_1	00 07 16.0	-17.3		
			LG_2	00 07 41.0	-13.4		
			LN	Ms=5.7		6.0	11.6
			LE			6.0	11.5
SNY	15.5	245	EP	00 04 16.0	0.8		
			XS	00 07 18.0	- 0.3		
			SS	00 07 26.0	1.6		
			LN	Ms=5.7		5.0	9.6
			LE			5.0	5.4
DL2	18.6	241	P	00 04 56.0	2.6		
			XP	00 05 09.0	3.3		
			S	00 08 14.0	-10.6		
			LN	Ms=5.7		6.0	8.5
			LE			6.0	8.6
BJI	21.1	251	EP	00 05 20.0	- 0.7		
			P_mE			6.0	0.4
			P_mZ			5.0	0.4
			ES	00 09 04.0	- 4.7		
			S_mN			11.0	0.5
			LN	Ms=5.1		12.0	5.1
TIA	23.0	242	EP	00 05 40.5	0.4		
			S	00 09 48.0	3.5		
			XS	00 10 09.5	10.4		
			LE	Ms=5.2		14.5	5.7
HHC	23.5	258	P	00 05 45.8	1.1		
			S	00 09 51.0	- 1.9		
			LN	Ms=5.2		9.0	3.1
			LE			8.0	2.5
BTO	24.6	259	EP	00 05 55.5	- 0.1		
SSE	24.8	228	EP	00 05 58.5	1.2		
			ES	00 10 14.0	- 1.2		
			XS	00 10 27.0	- 3.0		
			LN	Ms=5.2		20.0	8.2
TIY	24.8	251	EP	00 05 58.4	0.9		
			P_mZ			7.0	1.0
			S	00 10 23.0	7.5		
			S_mE			11.0	0.8
			LG_1	00 13 40.5	4.6		
			LG_2	00 14 27.5	12.3		
			LN	Ms=5.5		8.0	5.0
			LE			8.0	3.8
NJ2	25.2	233	PU	00 06 00.0	- 1.1		
			S	00 10 24.0	2.2		
			LE	Ms=5.1		10.0	3.0
WHN	28.8	238	EP	00 06 34.0	0.1		
			EXS	00 11 38.0	2.6		
			LN	Ms=5.3		11.0	2.6
XAN	29.4	249	EP	00 06 38.2	- 1.1		
			LN	Ms=5.3		10.0	3.0
			LE			11.0	2.2
LZH	31.2	258	EP	00 06 55.0	- 0.5		
			P_mZ			1.5	0.07
			ES	00 12 08.0	9.5		
			LE	Ms=5.2		8.0	2.2
QZH	31.2	225	EP	00 06 58.0	2.5		
			ES	00 12 10.0	11.5		
			LN	Ms=5.0		11.0	1.8
GTA	31.8	267	IPC	00 07 01.5	0.6		
			ES	00 12 11.0	2.9		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE	Ms=5.2		11.0	2.8
CD2	34.7	251	EP	00 07 25.4	− 0.3		
			(S)	00 12 58.0	5.2		
			LE	Ms=5.2		12.0	2.9
GYA	36.2	242	PC	00 07 39.0	0.1		
WMQ	37.3	282	P	00 07 48.2	0.4		
			ES	00 13 25.0	− 7.9		
			PCS	00 14 01.0	7.2		
KMI	39.5	245	PC	00 08 06.5	− 0.1		
			XP	00 08 20.0	0.1		
			ES	00 14 03.0	− 4.1		
			XS	00 14 19.0	− 3.2		
			LN	Ms=5.3		24.0	5.1

1984 12 22
O=05 13 32.1 +/− 0.11 SEC
LAT=39.87 N +/− 1.41 KM
LONG=118.27 E +/− 1.12 KM
DEPTH=20 KM +/− 0.03 KM
ML(CHINA)=3.1/8
STATIONS USED=5, STAND DEV=2.34 SEC

BJI	1.6	276	EPN	05 14 01.5	1.5		
			ESG	05 14 26.0	2.7		
			S_mN	ML=3.8		0.5	0.9
			S_mE			0.5	1.1
DL2	2.8	109	EPN	05 14 15.9	− 0.7		
			SN	05 14 46.7	− 3.3		
			S_mN	ML=3.0		0.5	0.07
			S_mE			0.5	0.07
TIA	3.8	194	EPN	05 14 33.3	2.5		
			SN	05 15 17.2	1.9		
			S_mN	ML=3.0		0.4	0.04
			S_mE			0.5	0.03

1984 12 22
O=05 18 05.2 +/− 0.11 SEC
LAT=19.38 N +/− 3.45 KM
LONG=120.96 E +/− 2.56 KM
DEPTH=20 KM +/− 2.20 KM
Ms(CHINA)=4.3/9, mb(NEIS)=4.5, ML(CHINA)=4.2/4
STATIONS USED=35, STAND DEV=2.07 SEC

QZH	6.0	338	EPN	05 19 34.3	− 0.3		
			SN	05 20 40.0	− 3.4		
			S_mN	ML=4.1		0.5	0.1
			S_mE			0.7	0.1
GZH	8.0	298	EP	05 20 01.0	− 2.4		
			S	05 21 25.5	− 8.9		
			LE	Ms=4.3		13.0	2.9
QZN	10.5	269	EP	05 20 35.1	− 3.0		
			ES	05 22 31.6	− 5.0		
			LE	Ms=4.2		15.0	2.1
GYA	14.9	300	P	05 21 38.0	0.7		
TIA	17.1	349	EP	05 22 10.4	5.4		
			ES	05 25 25.0	9.9		
			LN	Ms=4.3		16.0	1.3
XAN	18.1	326	EP	05 22 19.6	2.0		
			LN	Ms=4.3		14.0	1.0
			LE			13.0	0.6
CD2	19.3	309	EP	05 22 33.3	1.1		
			(S)	05 26 08.0	4.1		
			LE	Ms=4.5		16.0	1.9
BJI	21.0	349	EP	05 22 49.0	− 1.1		
			ES	05 26 43.0	4.5		
			S_mN			6.0	0.4
			S_mE			5.0	0.6
			LN	Ms=4.1		11.0	0.5
LZH	22.4	321	EP	05 23 05.0	0.2		
HHC	22.9	341	EP	05 23 11.4	2.5		
CN2	24.6	7	EP	05 23 22.0	− 4.0		
GTA	27.0	322	EP	05 23 49.0	0.3		
			ES	05 28 25.4	1.4		
			LE	Ms=4.2		10.0	0.3
WMQ	37.0	318	EP	05 25 17.4	1.9		

1984 12 22
O=10 50 29.3 +/− 0.11 SEC
LAT=9.10 S +/− 2.14 KM
LONG=124.01 E +/− 3.04 KM
DEPTH=33 KM +/− 0.16 KM
mb(NEIS)=5.1
STATIONS USED=28, STAND DEV=2.27 SEC

GYA	39.2	334	P	10 57 57.0	0.8		
CD2	44.3	334	EP	10 58 37.8	− 0.3		
XAN	45.2	342	P	10 58 44.5	− 1.3		
BJI	49.4	352	(P)	10 59 15.0	− 3.6		
CN2	52.7	1	EP	10 59 42.0	− 1.1		
GTA	53.2	336	P	10 59 47.0	− 0.6		
			SCP	10 04 46.6	− 1.1		
MDJ	53.7	4	PC	10 59 49.4	− 1.4		
WMQ	62.1	330	EP	11 00 49.0	− 1.1		

1984 12 22

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
O=15 14 23.8			+/- 0.11 SEC				
LAT=6.16 N			+/- 1.57 KM				
LONG=127.24 E			+/- 3.12 KM				
DEPTH=230 KM			+/- 1.23 KM				
mb(NEIS)=4.5							
STATIONS USED=16, STAND DEV=1.17 SEC							
TIA	31.3	344	EP	15 20 23.8	- 1.3		
XAN	32.5	330	P	15 20 38.4	2.9		
TIY	34.2	338	EP	15 20 49.5	- 0.2		
BJI	35.2	345	EP	15 20 57.0	- 1.0		
SNY	35.7	355	IPD	15 21 02.2	0.0		
HHC	37.3	340	PD	15 21 16.4	0.5		
CN2	37.5	357	EP	15 21 16.6	- 1.2		
MDJ	38.4	2	PC	15 21 26.0	1.3		
1984 12 22							
O=16 05 12.3			+/- 0.08 SEC				
LAT=27.88 N			+/- 1.92 KM				
LONG=54.46 E			+/- 1.18 KM				
DEPTH=42 KM			+/- 0.39 KM				
Ms(CHINA)=4.7/7, Msz(NEIS)=4.4, mb(NEIS)=5.1							
STATIONS USED=73, STAND DEV=1.14 SEC							
WMQ	31.0	50	EP	16 11 29.0	0.1		
			PP	16 12 24.5	- 6.4		
			(S)	16 16 24.5	- 5.6		
			XS	16 16 42.8	- 5.7		
			LN	Ms=5.0	26.0	4.4	
GTA	39.1	60	IPC	16 12 39.0	1.2		
			ES	16 18 35.5	0.8		
			LE	Ms=4.7	12.0	0.7	
LZH	42.3	65	EP	16 13 05.0	0.7		
			PmZ		1.0	0.08	
CD2	42.8	73	EP	16 13 08.4	0.3		
KMI	43.1	82	EP	16 13 10.0	- 0.7		
			ES	16 19 25.0	- 8.9		
GYA	46.2	79	P	16 13 38.0	2.6		
XAN	46.7	68	PC	16 13 38.4	- 0.7		
			LN	Ms=4.7	13.0	0.6	
BTO	46.9	59	EP	16 13 42.2	0.8		
TIY	49.0	62	PC	16 13 57.9	0.2		
			LN	Ms=4.3	15.0	0.2	
BJI	51.7	59	EP	16 14 17.5	- 0.2		
WHN	51.8	71	P	16 14 18.5	- 0.2		
TIA	53.0	64	PC	16 14 27.4	0.0		
NJ2	55.2	68	PC	16 14 43.4	- 0.5		
SNY	57.0	56	EP	16 14 55.4	- 1.2		
CN2	58.0	53	IPC	16 15 03.0	- 0.9		
			ES	16 22 59.0	- 1.1		
			LN	Ms=5.1		15.0	1.0
MDJ	60.8	52	EP	16 15 21.8	- 1.4		
1984 12 22							
O=22 13 22.9			+/- 0.37 SEC				
LAT=24.17 N			+/- 2.74 KM				
LONG=123.22 E			+/- 3.92 KM				
DEPTH=14 KM			+/- 0.73 KM				
ML(CHINA)=3.9/2							
STATIONSUSED=11, STAND DEV=3.00 SEC							
QZH	4.3	281	EPN	22 14 24.3	- 5.0		
			SN	22 15 06.4	-13.5		
			SmN	ML=3.9		0.4	0.3
			SmE			0.7	0.1
SSE	7.1	345	EPN	22 15 10.0	0.4		
NJ2	8.7	334	PD	22 15 30.0	- 2.1		
			ES	22 17 07.8	- 3.9		
			LE			1.2	0.03
CD2	18.5	295	EP	22 17 38.5	- 2.4		
1984 12 23							
O=00 41 42.9			+/- 0.11 SEC				
LAT=14.00 N			+/- 1.61 KM				
LONG=144.69 E			+/- 0.37 KM				
DEPTH=203 KM			+/- 1.23 KM				
mb(NEIS)=4.7							
STATIONS USED=19, STAND DEV=1.47 SEC							
CN2	34.0	334	EP	00 48 12.0	2.6		
BJI	36.0	321	EP	00 48 27.0	0.3		
TIY	37.1	315	P	00 48 36.6	0.6		
GYA	37.6	295	EP	00 48 41.0	0.6		
XAN	38.0	307	P	00 48 43.2	- 0.2		
CD2	41.1	301	P	00 49 09.5	0.3		
GTA	46.8	311	IPD	00 49 54.9	0.6		
1984 12 23							
O=04 57 03.4			+/- 0.10 SEC				
LAT=40.88 S			+/- 1.40 KM				
LONG=44.67 E			+/- 1.58 KM				
DEPTH=11 KM			+/- 0.23 KM				
Msz(NEIS)=4.7, mb(NEIS)=4.9							
STATIONS USED=14, STAND DEV=0.55 SEC							
KMI	84.9	50	EP	05 09 40.0	- 1.0		
GYA	88.3	52	P	05 09 58.0	0.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CD2	89.9	47	EP	05 10 05.3	0.4		
WMQ	92.8	29	PC	05 10 18.5	0.3		
GTA	94.4	39	EP	05 10 25.7	0.1		
1984 12 23							
O=06 39 31.2			**+/− 0.05 SEC**				
LAT=42.22 N			**+/− 0.76 KM**				
LONG=112.38 E			**+/− 0.53 KM**				
DEPTH=0 KM			**+/− 0.06 KM**				
ML(CHINA)=3.1/4							
STATIONS USED=4,STAND DEV=1.02 SEC							
HHC	1.5	204	PN	06 39 58.2	− 1.3		
			ISN	06 40 16.7	− 3.4		
			S_mN	ML=3.1	0.4	0.2	
			S_mE		0.4	0.3	
BTO	2.4	228	PG	06 40 13.8	− 1.2		
			SG	06 40 45.8	− 0.6		
BJI	3.6	125	EPG	06 40 35.0	− 1.9		
			ESG	06 41 21.0	− 3.0		
1984 12 23							
O=07 37 10.1			**+/− 0.08 SEC**				
LAT=42.25 N			**+/− 1.06 KM**				
LONG=112.26 E			**+/− 0.74 KM**				
DEPTH=1 KM			**+/− 0.08 KM**				
ML(CHINA)=2.9/4							
STATIONS USED=4,STAND DEV=1.44 SEC							
HHC	1.5	200	PN	07 37 36.4	− 1.8		
			SG	07 37 45.6	− 2.2		
			S_mN	ML=3.0	0.4	0.2	
			S_mE		0.4	0.2	
BTO	2.4	226	PG	07 37 52.0	− 1.1		
			SG	07 38 24.5	0.5		
			S_mN	ML=2.8	0.4	0.08	
			S_mE		0.4	0.05	
BJI	3.7	125	EPN	07 38 11.0	1.6		
			ESG	07 39 00.0	− 5.5		
1984 12 23							
O=08 21 11.3			**+/− 0.09 SEC**				
LAT=44.28 N			**+/− 2.70 KM**				
LONG=149.36 E			**+/− 1.59 KM**				
DEPTH=34 KM			**+/− 0.36 KM**				
Ms(CHINA)=4.6/8,Msz(NEIS)=4.4,mb(NEIS)=5.0							
STATIONS USED=36, STAND DEV=1.27 SEC							
MDJ	14.1	278	EP	08 24 31.5	0.2		
CN2	17.2	276	PC	08 25 11.6	0.9		
			ES	08 28 19.0	− 4.2		
			LE	Ms=4.4		15.0	1.5
SNY	19.0	271	PD	08 25 32.4	− 0.4		
			LN	Ms=4.4		14.0	0.9
			LE			18.0	1.1
BJI	24.9	271	EP	08 26 32.5	0.0		
			LN	Ms=4.4		11.0	0.6
TIA	25.8	262	EP	08 26 41.3	0.2		
			ES	08 31 07.0	1.2		
			LN	Ms=5.0		11.0	1.7
			LE	4.4		9.0	1.2
TIY	28.5	269	EP	08 27 05.6	− 0.1		
BTO	29.1	276	EP	08 27 11.4	0.1		
LZH	35.3	272	EP	08 28 05.5	− 0.6		
GTA	36.8	280	PD	08 28 19.2	1.0		
			LE	Ms=4.5		10.0	0.4
CD2	38.0	265	EP	08 28 28.8	0.1		
GYA	38.6	257	P	08 28 37.4	4.0		
KMI	42.2	258	PD	08 29 03.5	0.3		
			ES	08 35 25.0	3.7		
WMQ	43.4	291	PC	08 29 13.0	0.1		
			ES	08 35 38.8	0.3		
			LN	Ms=4.9		11.0	0.8
1984 12 23							
O=08 35 15.4			**+/− 0.49 SEC**				
LAT=25.32 N			**+/− 3.05 KM**				
LONG=123.00 E			**+/− 6.95 KM**				
DEPTH=33 KM			**+/− 1.97 KM**				
Ms(CHINA)=4.5/4							
STATIONS USED=15, STAND DEV=4.97 SEC							
SSE	6.0	344	EP	08 36 38.5	− 5.4		
			LN	Ms=4.4		10.0	3.2
			LE			10.0	2.2
GZH	9.1	257	EP	08 37 32.0	4.5		
			I	08 39 31.0			
			LN	Ms=4.7		8.0	3.5
			LE			8.0	2.4
CD2	17.9	292	EP	08 39 29.0	5.7		
KMI	18.3	273	EP	08 39 30.5	1.1		
GTA	24.0	311	P	08 40 38.3	9.6		
			LE	Ms=4.5		10.0	0.8
1984 12 23							
O=08 50 55.1			**+/− 0.09 SEC**				

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=36.89 N			**+/−**	**1.18 KM**			
LONG=137.07 E			**+/−**	**0.85 KM**			
DEPTH=273 KM			**+/−**	**1.26 KM**			
mb(NEIS)=4.7							
STATIONS USED=61, STAND DEV=1.21 SEC							
MDJ	9.6	326	IPC	08 53 10.7	1.5		
CN2	11.2	311	PD	08 53 29.7	− 0.2		
SNY	11.6	299	PD	08 53 35.3	1.5		
DL2	12.4	284	EP	08 53 46.0	2.0		
SSE	14.4	250	P	08 54 10.5	1.9		
			P_mZ			1.0	0.07
NJ2	15.8	257	PD	08 54 25.0	0.1		
TIA	16.1	273	EP	08 54 27.7	− 0.3		
BJI	16.7	287	EP	08 54 32.5	− 2.1		
TIY	19.6	279	EP	08 55 02.9	− 2.0		
WHN	19.9	258	P	08 55 08.5	0.7		
HHC	20.2	289	P	08 55 11.3	0.2		
XAN	23.1	271	PC	08 55 38.2	− 0.4		
GYA	27.8	256	PC	08 56 21.0	− 0.8		
CD2	28.2	267	EP	08 56 24.4	− 0.9		
GTA	29.3	286	IPD	08 56 34.3	− 0.7		
KMI	31.5	257	EP	08 56 54.5	− 0.1		
WMQ	37.8	296	EP	08 57 45.5	− 2.1		
1984 12 23							
O=09 47 22.6			**+/−**	**0.33 SEC**			
LAT=25.25 N			**+/−**	**4.93 KM**			
LONG=122.95 E			**+/−**	**5.58 KM**			
DEPTH=1 KM			**+/−**	**8.77 KM**			
Ms(CHINA)=3.7/2							
STATIONS USED=5,STAND DEV=3.62 SEC							
QZH	4.0	266	EPN	09 48 20.5	− 5.4		
			ESG	09 49 19.0	− 7.7		
			LE	Ms=3.7		8.0	1.0
SSE	6.0	345	EPG	09 49 29.0	16.6		
			LN	Ms=4.3		10.0	0.9
GTA	24.0	311	EP	09 52 40.2	− 0.2		
1984 12 23							
O=16 03 48.9			**+/−**	**0.06 SEC**			
LAT=34.06 N			**+/−**	**1.62 KM**			
LONG=141.52 E			**+/−**	**1.24 KM**			
DEPTH=40 KM			**+/−**	**0.52 KM**			
Ms(CHINA)=4.8/23,Msz(NEIS)=5.1,mb(NEIS)=5.5							
STATIONS USED=97, STAND DEV=1.34 SEC							
MDJ	14.0	322	EP	16 07 06.5	− 0.5		
			S	16 09 40.0	− 2.2		
			LN	Ms=4.6		18.0	3.8
CN2	15.8	312	EP	16 07 30.0	− 0.7		
			ES	16 10 21.0	− 4.0		
			LN	Ms=4.9		13.0	4.2
			LE			13.0	2.0
SNY	16.1	303	PD	16 07 35.8	1.3		
			ES	16 10 32.0	0.1		
			LN	Ms=4.7		13.0	1.4
			LE			15.0	2.9
DL2	16.7	292	EP	16 07 43.6	1.7		
			ES	16 10 45.0	− 0.5		
			LN	Ms=4.8		11.0	3.0
			LE			11.0	1.5
SSE	17.4	265	E(P)	16 07 53.0	2.6		
			ES	16 11 04.0	− 3.9		
			SS	16 11 31.0	9.0		
			LE	Ms=4.9		10.0	3.0
NJ2	19.1	270	PC	16 08 10.4	− 1.0		
			ES	16 11 38.0	− 1.5		
			LE	Ms=4.7		12.0	2.0
TIA	20.1	283	EP	16 08 21.5	− 0.4		
			ES	16 11 54.0	− 6.4		
			LN	Ms=4.9		11.5	1.4
			LE			13.0	3.1
BJI	21.1	293	EP	16 08 31.0	− 1.2		
			ES	16 12 11.0	− 8.6		
			S_mN			6.0	0.4
			LN	Ms=4.7		11.0	1.1
			LE			11.0	1.5
WHN	23.2	268	P	16 08 53.0	− 0.5		
			ES	16 13 01.0	2.1		
TIY	23.8	287	EP	16 09 01.8	2.4		
			S	16 13 12.0	2.5		
			LE	Ms=4.8		15.0	2.4
HHC	24.7	294	P	16 09 09.5	1.8		
BTO	25.8	293	EP	16 09 19.2	0.7		
XAN	27.0	279	EP	16 09 27.6	− 1.5		
LZH	30.8	284	EP	16 10 02.5	− 1.1		
			LE	Ms=4.8		14.0	1.5
GYA	30.9	265	P	16 10 02.6	− 2.3		
			S	16 15 01.0	− 4.6		
			LN	Ms=5.0		13.0	1.3
			LE			13.0	1.8
CD2	31.9	274	P	16 10 11.7	− 1.5		
			ES	16 15 21.0	0.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN	Ms=5.0		18.0	2.8
GTA	33.6	291	IPD	16 10 28.7	0.3		
			PCP	16 13 08.2	1.0		
			ES	16 15 48.2	0.4		
			LE	Ms=4.7		11.5	0.9
KMI	34.7	265	EP	16 10 36.5	− 1.3		
			ES	16 16 14.0	9.3		
			LE	Ms=5.1		13.0	2.3
WMQ	42.3	299	PC	16 11 42.6	1.3		
			XP	16 11 51.5	− 5.3		
			PCP	16 13 36.0	2.0		
			PCS	16 17 27.8	3.2		
			S	16 18 03.3	3.6		
			S_mN			3.5	1.7
			XS	16 18 10.0	− 7.5		
			LN	Ms=4.8		11.0	0.6

1984 12 23

O=18 50 15.0 +/− 0.12 SEC
LAT=0.55 N +/− 1.37 KM
LONG=126.14 E +/− 1.89 KM
DEPTH=62 KM +/− 0.90 KM
mb(NEIS)=5.2
STATIONS USED=51, STAND DEV=1.57 SEC

QZN	24.3	319	EP	18 55 31.4	2.9		
GZH	25.6	331	EP	18 55 41.5	0.8		
GYA	31.9	325	P	18 56 38.0	1.1		
KMI	33.3	319	EP	18 56 51.0	1.6		
			ES	19 02 14.0	9.2		
CD2	36.9	326	EP	18 57 19.6	− 0.5		
TIY	39.1	342	EP	18 57 38.2	0.0		
BJI	40.3	348	EP	18 57 48.0	− 0.5		
SNY	41.2	357	PS	18 57 56.9	1.7		
			EC	19 04 08.0	4.0		
			LN			26.0	0.5
			LE			22.0	0.4
CN2	43.1	359	EP	18 58 11.2	0.3		
MDJ	44.0	3	EP	18 58 19.5	1.1		
GTA	45.5	331	EP	18 58 29.0	− 2.0		
WMQ	55.0	326	EP	18 59 41.8	− 1.3		

1984 12 24

O=05 04 38.5 +/− 0.06 SEC
LAT=40.78 N +/− 0.89 KM
LONG=73.27 E +/− 0.84 KM
DEPTH=29 KM +/− 0.25 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
mb(NEIS)=4.5,ML(CHINA)=4.2/2							
STATIONS USED=8,STAND DEV=1.20 SEC							
WMQ	11.1	69	EP	05 07 16.8	− 1.9		
			LG	05 10 32.5			
			LN			1.6	0.07
			LE			1.2	0.03
GTA	20.3	85	EP	05 09 18.0	2.6		

1984 12 24

O=05 32 34.1 +/− 0.11 SEC
LAT=5.97 S +/− 1.89 KM
LONG=149.73 E +/− 2.45 KM
DEPTH=71 KM +/− 0.20 KM
mb(NEIS)=5.6
STATIONS USED=93, STAND DEV=1.62 SEC

QZH	43.2	316	PU	05 40 30.0	0.2		
			P_mZ			6.0	1.4
			AP	05 40 42.0	− 4.9		
			XP	05 40 48.0	− 7.5		
			ES	05 46 52.0	1.0		
			XS	05 47 06.0	−14.4		
			SS	05 50 06.0	6.7		
			LN			22.0	11.3
			LE			22.0	10.9
GZH	45.8	310	PU	05 40 51.0	− 0.1		
			S	05 47 30.0	0.7		
			LN			16.0	3.1
			LE			18.0	4.1
SSE	45.9	325	PU	05 40 52.0	0.5		
			AP	05 41 05.0	− 3.7		
			ES	05 47 36.0	6.0		
			XS	05 47 58.0	− 1.7		
			SCS	05 50 44.0	6.8		
			LN			22.0	7.7
			LE			22.0	18.2
QZN	46.5	303	EP	05 40 56.9	0.4		
			ES	05 47 35.0	− 4.0		
			LN			20.0	5.5
			LE			19.0	4.1
NJ2	47.9	324	IPU	05 41 08.0	0.4		
			P_mZ			5.0	2.1
			AP	05 41 21.0	− 3.9		
			IS	05 48 06.0	7.0		
			XS	05 48 29.5	0.6		
			LN			18.0	4.8
			LE			20.0	8.1

December

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
WHN	49.7	319	PC	05 41 22.0	0.9		
			AP	05 41 35.0	− 3.4		
			PCP	05 42 39.0	− 2.1		
			PP	05 43 20.0	3.1		
			PCS	05 46 35.0	− 1.3		
			ES	05 48 32.0	8.5		
			XS	05 48 53.0	− 0.5		
			LN			19.0	7.1
DL2	51.7	332	PU	05 41 36.0	− 0.5		
			S	05 48 55.0	3.5		
			LN			21.0	9.9
			LE			16.0	4.5
TIA	51.9	326	PD	05 41 38.0	− 0.3		
			XP	05 41 53.0	−11.0		
			PCP	05 42 56.0	6.5		
			PP	05 43 51.5	14.2		
			ES	05 48 55.0	0.3		
			S_mN			11.5	0.9
			S_mE			11.5	1.8
			EXS	05 49 20.0	− 4.7		
			LN			18.5	8.4
			LE			18.5	8.9
GYA	52.7	309	P	05 41 44.0	− 0.5		
			XP	05 42 02.0	− 8.2		
			S	05 49 12.0	6.0		
			LN			18.0	3.4
			LE			18.0	4.1
SNY	53.2	335	IPU	05 41 48.1	0.0		
			P_mZ			5.0	1.9
			AP	05 42 00.0	− 5.6		
			XP	05 42 08.0	− 5.9		
			PP	05 43 46.0	− 4.2		
			S	05 49 14.0	1.5		
			XS	05 49 36.5	− 6.3		
			LN			32.0	10.9
			LE			29.0	6.8
MDJ	53.5	342	PC	05 41 50.0	− 0.2		
			AP	05 42 03.5	− 4.2		
			S	05 49 20.0	3.5		
			S_mN			26.0	6.2
CN2	54.2	338	PU	05 41 52.5	− 2.6		
			P_mN			6.0	0.9
			P_mZ			6.0	2.9
			AP	05 42 05.0	− 7.6		
			EPP	05 43 57.0	− 1.6		
			ES	05 49 28.0	2.5		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_mN			9.0	1.6
			XS	05 49 48.0	− 7.7		
			SS	05 53 12.0	6.1		
			ESSS	05 55 14.0			
			LN			20.0	4.8
			LE			20.0	5.9
KMI	55.2	306	PU	05 42 01.5	− 0.9		
			P_mZ			8.0	0.9
			XP	05 42 18.5	− 9.6		
			ES	05 49 44.0	5.1		
			LE			16.0	2.5
BJI	55.2	328	EP	05 42 02.0	− 0.8		
			P_mN			7.0	0.6
			P_mE			7.0	0.5
			P_mZ			7.0	1.2
			AP	05 42 14.5	− 5.9		
			EPP	05 44 10.0	2.1		
			S	05 49 42.0	2.4		
			S_mN			10.0	0.9
			EXS	05 50 08.0	− 2.0		
			LN			21.0	7.9
			LE			21.0	7.1
TIY	55.6	324	PU	05 42 05.0	− 0.7		
			P_mZ			7.0	1.3
			PP	05 44 12.5	1.1		
			PP_mZ			9.0	1.5
			S	05 49 46.0	1.0		
			XS	05 50 13.5	− 1.7		
			LN			21.0	10.7
			LE			23.0	9.7
CD2	57.2	312	P	05 42 17.0	− 0.1		
			S	05 50 06.0	− 0.1		
			XS	05 50 26.0	−10.4		
			LE			28.0	9.9
HHC	58.3	326	PU	05 42 24.0	− 0.4		
			PP	05 44 44.0	9.0		
			S	05 50 17.0	− 2.9		
			S_mE			9.0	1.9
			LN			19.0	5.4
BTO	59.0	325	EP	05 42 30.4	1.2		
LZH	60.0	317	EP	05 42 34.5	− 1.9		
			P_mZ			7.0	1.4
			ES	05 50 42.0	− 0.2		
			S_mE			11.0	1.7
			LE			20.0	6.8
GTA	64.5	318	P	05 43 05.4	− 0.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	05 51 41.6	2.8		
			LE			21.0	4.4
WMQ	74.6	318	EP	05 44 07.0	− 0.9		
			ES	05 53 38.6	1.6		
			S_m N			2.0	0.6
			XS	05 54 03.0	− 5.3		

1984 12 24
O = 13 36 42.8 +/− 0.30 SEC
LAT = 9.41 S +/− 2.85 KM
LONG = 71.71 W +/− 4.06 KM
DEPTH = 515 KM +/− 3.18 KW
mb (NEIS) = 5.2
STATIONS USED = 80, STAND DEV = 2.06 SEC

MDJ	140.4	325	EPKP	13 55 11.5	− 2.4		
WMQ	141.3	24	EPKP	13 55 11.4	− 4.3		
			PKP_m Z			1.8	0.1
CN2	142.6	339	PKPD	13 55 14.8	− 3.0		
SNY	145.0	339	EPKP	13 55 22.6	0.7		
DL2	148.3	339	PKP	13 55 31.0	3.7		
HHC	148.6	355	EPKP	13 55 29.6	1.7		
BJI	148.7	348	EPKP	13 55 29.0	1.1		
BTO	148.9	357	EPKP	13 55 30.0	1.6		
GTA	149.2	12	PKP	13 55 29.5	0.6		
TIY	151.6	353	EPKP	13 55 33.5	1.0		
TIA	152.1	344	PKPC	13 55 34.2	1.0		
LZH	153.1	7	EPKP	13 55 36.0	1.3		
CD2	158.2	10	EPKP	13 55 42.7	1.4		
WHN	158.2	345	PKP	13 55 42.5	1.3		
GYA	163.0	4	PKP	13 55 45.4	− 0.9		
KMI	163.5	17	PKPC	13 55 48.0	1.0		

1984 12 24
O = 14 39 31.6 +/− 0.06 SEC
LAT = 4.32 S +/− 0.60 KM
LONG = 143.64 E +/− 0.72 KM
DEPTH = 123 KM +/− 0.40 KM
mb (NEIS) = 4.8
STATIONS USED = 14, STAND DEV = 0.87 SEC

CN2	50.6	342	EP	14 48 20.8	0.3		
BJI	50.9	332	EP	14 48 22.5	0.3		
CD2	51.7	315	EP	14 48 30.0	1.2		
GTA	59.3	321	PC	14 49 24.8	1.2		

1984 12 24
O = 19 52 14.7 +/− 0.15 SEC
LAT = 22.94 N +/− 2.60 KM
LONG = 124.03 E +/− 2.20 KM
DEPTH = 39 KM +/− 0.76 KM
Ms (CHINA) = 3.9/9, mb (NEIS) = 4.6, ML (CHINA) = 3.8/3
STATIONS USED = 44, STAND DEV = 2.38 SEC

QZH	5.4	292	EP	19 53 31.0	− 3.5		
			S	19 54 26.0	−10.0		
			S_m N	ML = 3.8		1.0	0.1
			S_m E			1.0	0.07
			LN	Ms = 3.8		10.0	0.8
SSE	8.5	343	EP	19 54 15.5	− 3.0		
			LE			10.0	0.8
GZH	9.8	272	EP	19 54 34.5	− 2.5		
NJ2	10.2	334	EP	19 54 38.4	− 3.0		
			LN	Ms = 3.6		10.0	0.3
TIY	17.8	328	EP	19 56 22.0	0.7		
			LE	Ms = 3.9		12.0	0.4
BJI	18.3	340	EP	19 56 28.5	0.9		
SNY	18.8	358	EP	19 56 32.6	− 1.5		
KMI	19.6	280	EP	19 56 52.0	9.4		
CD2	19.7	298	EP	19 56 42.4	− 1.7		
CN2	20.8	2	PC	19 56 53.8	− 2.0		
			ES	20 00 34.0	− 7.3		
			LE	Ms = 4.0		14.0	0.5
BTO	21.2	329	EP	19 56 58.7	− 1.0		
LZH	21.9	311	EP	19 57 08.5	2.2		
GTA	26.3	314	P	19 57 48.4	− 0.8		
WMQ	36.4	313	EP	19 59 17.3	− 0.6		
			S	20 04 55.2	− 1.2		
			LN	Ms = 4.7		8.0	0.6

1984 12 25
O = 00 54 09.1 +/− 0.05 SEC
LAT = 47.68 N +/− 1.72 KM
LONG = 152.86 E +/− 0.95 KM
DEPTH = 75 KM +/− 0.31 KM
mb (NEIS) = 4.7
STATIONS USED = 26, STAND DEV = 1.03 SEC

MDJ	16.4	267	EP	00 57 56.0	− 0.2		
CN2	19.5	268	EP	00 58 31.6	− 1.2		
SNY	21.5	265	EP	00 58 53.4	− 0.5		
CD2	40.8	263	EP	01 01 45.8	0.7		
GYA	41.8	256	P	01 01 54.0	0.9		

1984 12 25
O = 11 41 49.0 +/− 0.19 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=59.30 S			**+/− 5.35 KM**				
LONG=26.91 W			**+/− 4.90 KM**				
DEPTH=33 KM			**+/− 0.90 KM**				
mb(NEIS)=5.5							
STATIONS USED=31, STAND DEV=2.74 SEC							
GTA	141.3	96	EPKP	12 01 12.3	− 5.5		
NJ2	144.4	124	PKPC	12 01 21.8	− 1.2		
			PKP_mZ			6.0	0.7
SSE	144.6	128	IPKPC	12 01 24.0	0.7		
			PKP_mZ			1.0	0.02
			APKP	12 01 35.0			
TIY	146.3	111	EPKP	12 01 27.2	0.9		
TIA	147.2	118	EPKP	12 01 29.7	1.9		
			PKP_mZ			6.0	1.3
			XPKP	12 01 45.0			
			PP	12 04 53.0	5.3		
BTO	147.3	105	EPKP	12 01 31.0	2.9		
BJI	149.9	113	EPKP	12 01 33.5	1.4		
DL2	151.4	121	EPKP	12 01 37.0	2.6		
SNY	154.7	120	EPKP	12 01 39.0	− 0.1		
			PP	12 05 29.0	−11.3		
CN2	157.1	120	PKPC	12 01 41.0	− 1.2		
			PKP_mZ			5.0	0.5
			PP	12 05 52.0	− 1.5		
			PP_mZ			5.0	0.3
MDJ	159.5	125	EPKP	12 01 51.5	6.3		

1984 12 26

O=03 43 48.2	**+/− 0.08 SEC**	
LAT=32.58 N	**+/− 0.31 KM**	
LONG=121.95 E	**+/− 0.82 KM**	
DEPTH=33 KM	**+/− 0.13 KM**	
ML(CHINA)=3.5/6		
STATIONS USED=5, STAND DEV=1.91 SEC		

SSE	1.6	203	IPC	03 44 16.0	1.3		
			S	03 44 34.3	− 0.3		
			I	03 44 36.3			
			S_mN	ML=3.5		0.4	0.4
			S_mE			0.4	0.7
NJ2	2.7	259	PC	03 44 32.5	2.7		
			I	03 45 04.8			
			S_mN	ML=3.5		0.3	0.2
			S_mE			0.3	0.3
TIA	5.4	313	EP	03 45 22.3	13.8		
			I	03 46 33.0			
			S_mN				
			S_mE				
MAJ	6.2	313	EP	03 45 37.0	13.8		
			I	03 46 48.0			
			S_mN				
			S_mE				
BJI	8.2	49	EP	03 45 54.0	13.8		
			I	03 47 05.0			
			S_mN				
			S_mE				
DL2	10.1	61	EP	03 46 16.0	13.8		
			I	03 47 27.0			
			S_mN				
			S_mE				
SNY	13.2	57	EP	03 46 46.0	13.8		
			I	03 47 57.0			
			S_mN				
			S_mE				
CN2	14.8	59	EP	03 47 06.0	13.8		
			I	03 48 17.0			
			S_mN				
			S_mE				
MDJ	17.7	65	EP	03 47 36.0	13.8		
			I	03 48 47.0			
			S_mN				
			S_mE				

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_mN	ML=3.1		0.6	0.02
			S_mE			0.6	0.02

1984 12 26

O=06 08 37.5		
LAT=32.30 N		
LONG=121.40 E		
DEPTH=0 KM		
ML(CHINA)=3.1/5		

SSE	1.2	188	IPG	06 09 08.0	8.4		
			SG	06 09 26.5	11.0		
			SG	06 09 28.0	12.5		
			S_mN	ML=3.1		0.4	0.3
			S_mE			0.4	0.4
NJ2	2.2	264	PGC	06 09 24.0	6.9		
			SG	06 09 56.0	10.4		
			S_mN	ML=3.1		0.4	0.1
			S_mE			0.4	0.2

1984 12 26

O=09 37 57.4	**+/− 0.24 SEC**	
LAT=58.37 S	**+/− 10.67 KM**	
LONG=25.20 W	**+/− 8.85 KM**	
DEPTH=34 KM	**+/− 0.71 KM**	
Msz(NEIS)=4.8, mb(NEIS)=5.5		
STATIONS USED=48, STAND DEV=3.33 SEC		

GYA	133.8	112	PKP	09 57 13.8	1.4		
CD2	136.0	105	EPKP	09 57 17.6	1.3		
WMQ	137.3	79	EPKP	09 57 14.5	− 4.3		
LZH	140.1	101	EPKP	09 57 24.5	0.5		
GTA	140.5	94	EPKP	09 57 19.5	− 5.2		
XAN	141.1	108	EPKP	09 57 19.2	− 6.4		
NJ2	144.2	121	PKPR	09 57 26.5	− 4.4		
			PKP_mZ			20.0	0.3
SSE	144.4	125	PKPD	09 57 31.5	0.3		
TIY	145.7	108	PKP	09 57 35.0	1.4		
			PKP_mZ			3.0	0.9
TIA	146.8	115	PKP	09 57 39.1	3.6		
BJI	149.4	109	EPKP	09 57 40.5	1.0		
DL2	151.1	117	PKPU	09 57 49.0	6.8		
SNY	154.3	116	EPKP	09 57 56.4	9.6		
CN2	156.7	115	PKPC	09 57 50.0	0.0		
MDJ	159.3	120	EPKP	09 57 54.0	0.8		

1984 12 27

O=03 26 06.4	**+/− 0.07 SEC**	

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=21.81 S			**+/- 3.25 KM**				
LAND=179.29 W			**+/- 2.29 KM**				
DEPTH=608 KM			**+/- 1.74 KM**				
mb(NEIS)=5.3							
STATIONS USED=33, STAND DEV=1.32 SEC							
NJ2	79.8	310	IPC	03 37 15.2	0.5		
SNY	82.4	320	EP	03 37 27.7	- 0.5		
CN2	82.6	323	IPD	03 37 28.6	- 0.4		
TIA	83.3	313	EP	03 37 32.6	0.3		
GYA	86.2	300	P	03 37 47.2	0.3		
TIY	87.3	312	E(P)	03 37 51.9	0.3		
XAN	88.0	307	P	03 37 55.1	0.2		
CD2	90.5	303	EP	03 38 07.6	1.0		
1984 12 27							
O=16 33 21.5			**+/- 0.20 SEC**				
LAT=5.86 S			**+/- 2.26 KM**				
LONG=101.11 E			**+/- 3.84 KM**				
DEPTH=34 KM			**+/- 0.12 KM**				
mb(NEIS)=4.8							
STATIONS USED=14, STAND DEV=1.01 SEC							
GYA	32.6	9	P	16 39 54.0	1.5		
XAN	40.4	10	P	16 40 57.4	- 0.9		
GTA	45.1	358	EP	16 41 37.8	1.2		
HHC	47.5	10	EP	16 41 55.6	0.0		
BJI	47.7	15	EP	16 41 57.5	- 0.1		
WMQ	50.9	347	P	16 42 21.1	- 1.1		
CN2	54.1	21	E(P)	16 42 45.0	- 0.9		
1984 12 28							
O=00 52 25.7			**+/- 0.14 SEC**				
LAT=12.00 N			**+/- 2.87 KM**				
LONG=57.78 E			**+/- 1.48 KM**				
DEPTH=8 KM			**+/- 0.14 KM**				
mb(NEIS)=4.9							
STATIONS USED=31, STAND DEV=1.41 SEC							
WMQ	40.9	33	EP	01 00 11.6	1.3		
KMI	44.4	66	PC	01 00 39.0	- 0.2		
GTA	46.1	46	PC	01 00 52.4	- 0.3		
CD2	46.4	58	EP	01 00 53.9	- 1.0		
GYA	48.1	65	P	01 01 08.2	- 0.1		
XAN	51.3	55	IPC	01 01 32.2	- 1.1		
TIY	54.9	52	P	01 01 59.3	- 0.7		
BJI	58.3	50	EP	01 02 23.0	- 0.8		
TIA	58.3	54	EP	01 02 23.1	- 1.2		
CN2	65.7	47	EP	01 03 12.0	- 1.6		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 12 28							
O=01 38 05.7			**+/- 0.33 SEC**				
LAT=42.05 N			**+/- 3.09 KM**				
LONG=142.90 E			**+/- 3.67 KM**				
DEPTH=86 KM			**+/- 1.24 KM**				
mb(NEIS)=4.8							
STATIONS USED=10, STAND DEV=3.18 SEC							
BJI	20.2	273	EP	01 42 33.0	- 3.4		
WMQ	39.8	291	EP	01 43 31.5	- 1.1		
1984 12 28							
O=10 37 52.1			**+/- 0.11 SEC**				
LAT=56.23 N			**+/- 2.80 KM**				
LONG=163.22 E			**+/- 1.82 KM**				
DEPTH=33 KM			**+/- 0.08 KM**				
Ms(CHINA)=7.3/27, Msz(NEIS)=7.0, mb(NEIS)=6.2,							
STATIONS USED=117, STAND DEV=1.74 SEC							
MDJ	24.1	255	IPU	10 43 05.0	- 1.1		
			S	10 47 20.0	0.9		
			LN	Ms=7.1		16.0	519.8
CN2	26.9	258	IPU	10 43 30.0	- 2.4		
			P_mN			5.0	10.0
			P_mZ			5.0	13.0
			AP	10 43 37.0	- 4.4		
			XP	10 43 41.0	- 4.5		
			ES	10 47 58.0	- 7.5		
			S_mE	-		7.5	42.0
			XS	10 48 10.0	-10.5		
			LN	Ms=7.3		15.0	700.0
DL2	32.4	255	PU	10 44 20.0	- 1.1		
			S	10 49 12.0	-20.1		
			LN	Ms=7.6		16.0	916.6
			LE			16.0	411.6
HHC	36.6	267	PU	10 44 58.0	0.8		
			S	10 50 36.0	- 1.3		
			S_mN			7.0	8.6
			S_mE			4.0	5.9
			LE	Ms=6.8		18.0	163.0
TIA	36.8	256	PC	10 44 57.8	- 1.0		
			PP	10 46 32.0	7.8		
			PP_mZ			10.0	14.8
			S	10 50 47.0	6.6		
			S_mN			12.0	9.8
			S_mE			10.0	6.4
			SS	10 53 30.0	22.0		
			LN	Ms=7.7		14.0	600.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			14.0	579.7
BTO	37.6	268	IPU	10 45 06.0	0.1		
			PP	10 46 29.0	− 5.2		
			S	10 50 49.0	− 4.1		
			S_mN			9.0	7.0
			S_mE			9.0	12.0
			SCP	10 51 15.0	8.6		
TIY	38.3	262	PU	10 45 11.0	− 0.4		
			P_mZ			10.0	9.1
			PP	10 46 51.0	8.9		
			S	10 50 58.0	− 5.2		
			S_mN			10.5	6.9
			S_mE			10.5	13.4
			XS	10 51 13.0	− 5.4		
			SS	10 54 01.0	19.2		
			LE	Ms=7.6		17.0	805.7
SSE	38.5	247	PU	10 45 13.0	− 0.7		
			P_mN			16.0	7.8
			P_mE			16.0	5.3
			P_mZ			16.0	15.5
			AP	10 45 22.0	− 1.0		
			PP	10 46 44.0	− 1.8		
			PCP	10 47 31.0	5.0		
			S	10 51 06.0	− 1.4		
			XS	10 51 18.0	− 4.8		
			SS	10 53 52.0	− 3.9		
			SCS	10 55 18.0	− 1.0		
			LN	Ms=7.2		13.0	78.6
			LE			14.0	271.1
NJ2	39.0	250	PU	10 45 16.0	− 1.5		
			P_mZ			12.0	8.2
			PP	10 46 52.0	0.9		
			PP_mZ			13.0	16.3
			S	10 51 14.0	− 0.4		
			LN	Ms=7.1		20.0	125.0
			LE			20.0	250.0
WHN	42.6	253	PC	10 45 46.0	− 1.0		
			P_mZ			11.0	4.5
XAN	42.9	262	PC	10 45 48.1	− 1.5		
			P_mZ			12.0	9.0
			PCP	10 47 40.0	− 0.0		
			SCP	10 51 42.0	14.9		
			S	10 52 12.0	− 0.1		
			S_mN			13.0	6.5
			S_mE			9.0	5.0
GTA	44.1	275	IPU	10 46 01.1	1.5		
			PP	10 46 45.5	1.8		
			PPP	10 48 23.7			
			S	10 52 32.0	2.0		
			P_mZ			4.0	9.8
			S_mE			9.0	11.5
			LE	Ms=7.4		20.0	439.6
LZH	44.2	268	EP	10 46 00.5	0.0		
			P_mZ			12.0	12.1
			EPP	10 47 37.0	− 7.8		
			S	10 52 31.0	− 0.6		
			S_mE			12.0	12.6
QZH	44.9	244	IPU	10 46 06.0	0.4		
			P_mZ			12.0	8.7
			PP	10 47 49.0	− 2.4		
			S	10 52 33.0	− 7.9		
			SCS	10 56 05.0	− 7.8		
			LN	Ms=7.3		16.0	137.2
			LE			16.0	225.0
WMQ	47.7	288	PC	10 46 28.5	0.6		
			PP	10 48 28.0	9.9		
			PP_mZ			10.0	15.0
			SCP	10 51 51.0	4.2		
			PCS	10 52 00.0	9.3		
			S	10 53 25.0	4.0		
			SCS	10 56 14.0	− 1.2		
			LN	Ms=7.7		20.0	805.6
CD2	48.1	264	EP	10 46 31.5	0.3		
			P_mZ			14.0	13.6
			S	10 53 30.5	3.6		
			LE	Ms=7.4		18.0	389.6
GZH	49.1	248	PU	10 46 38.0	− 0.8		
			P_mZ			12.0	10.7
			PCP	10 48 11.0	9.2		
			SCP	10 51 53.0	0.2		
			PCS	10 51 55.0	− 1.7		
			S	10 53 35.0	− 5.8		
			S_mN			10.0	4.9
			S_mE			12.0	6.4
			SCS	10 36 56.0	11.4		
			LN	Ms=6.9		14.0	76.1
			LE			12.0	33.0
GYA	49.9	257	P	10 46 45.4	− 0.1		
			PCP	10 47 57.0	− 7.8		
			PP	10 48 47.0	6.5		
			S	10 53 56.0	3.1		
			LN	Ms=7.3		17.0	174.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			17.0	198.0
KMI	53.2	260	IPU	10 47 09.0	− 0.8		
			P_mZ			8.0	7.6
			XP	10 47 21.5	− 1.4		
			PP	10 49 06.0	− 4.4		
			S	10 54 18.0	−19.2		
			XS	10 54 41.0	−11.5		
			SCS	10 56 56.0	3.6		
			SS	10 57 51.0	−23.3		
			LE	Ms=7.6		22.0	641.2
QZN	54.3	249	IPU	10 47 20.0	2.2		
			PCP	10 48 15.0	− 5.9		
			PP	10 49 34.0	13.7		
			IS	10 55 00.5	8.6		
			S_mN			14.0	17.5
			S_mE			13.0	13.0
			SCS	10 56 44.0	−16.2		
			LN	Ms=7.3		17.0	162.4
			LE			17.0	171.3

1984 12 28

O=15 59 49.2 +/− 0.08 SEC
LAT=23.45 S +/− 1.12 KM
LONG=179.18 E +/− 0.45 KM
DEPTH=558 KM +/− 0.93 KM
mb(NEIS)=5.3
STATIONS USED=46, STAND DEV=0.69 SEC

SSE	77.6	311	P	16 10 49.7	− 0.4		
			P_mZ			1.2	0.07
GZH	78.9	301	EP	16 10 57.0	− 0.1		
NJ2	79.8	311	PC	16 11 00.5	− 1.1		
			P_mZ			4.0	0.6
MDJ	81.5	326	IPD	16 11 10.0	− 0.2		
WHN	82.1	307	IPD	16 11 14.0	0.5		
CN2	83.1	323	IPR	16 11 17.8	− 0.6		
			P_mN			4.0	0.2
			P_mE			4.0	0.3
			P_mZ			47.0	1.4
			AP	16 13 16.0	− 2.3		
			PP	16 14 40.0	− 0.5		
			PP_mE			4.0	0.5
			ESKS	16 20 49.0	4.8		
TIA	83.4	314	PC	16 11 19.0	− 0.8		
GYA	85.9	300	PD	16 11 32.0	− 0.1		
			SKS	16 21 05.0	2.4		
TIY	87.3	313	IPD	16 11 39.5	0.6		
			P_mZ			1.4	0.3
XAN	87.9	308	PD	16 11 41.3	− 0.1		
KMI	88.4	298	IPD	16 11 44.5	0.4		
			XP	16 14 41.5	1.2		
HHC	89.6	315	IPD	16 11 50.0	0.6		
CD2	90.2	303	IPD	16 11 53.1	0.8		
BTO	90.4	314	IPR	16 11 53.5	0.0		
GTA	96.8	309	IPD	16 12 22.4	− 0.2		
			PP	16 16 23.3	− 5.9		
			SKS	16 22 03.7	− 0.9		

1984 12 28

O=16 27 59.8 +/− 0.10 SEC
LAT=34.60 N +/− 1.41 KM
LONG=73.32 E +/− 1.81 KM
DEPTH=37 KM +/− 0.27 KM
mb(NEIS)=4.6
STATIONS USED=16, STAND DEV=1.96 SEC

WMQ	14.4	46	EP	16 31 29.5	5.6		
GTA	21.7	69	IPC	16 32 48.2	− 1.4		
CD2	25.8	89	(P)	16 33 29.0	− 0.8		
XAN	29.3	80	EP	16 34 00.3	− 1.3		

1984 12 28

O=18 20 16.1
LAT=36.64 S
LONG=177.77 E
DEPTH=26 KM
Ms(CHINA)=5.5/3, Msz(NEIS)=5.3, mb(NEIS)=5.5

QZH	82.8	308	P	18 32 39.0	− 1.3		
GZH	84.9	303	PR	18 32 51.0	− 0.1		
			P_mZ			5.0	1.3
			PP	18 36 10.0	1.5		
			ES	18 43 22.0	4.6		
SSE	85.7	314	EP	18 32 51.0	− 3.9		
			P_mZ			10.0	1.0
			ES	18 43 18.0	− 6.9		
			LN	Ms=5.5		24.0	1.4
			LE			24.0	1.6
NJ2	87.8	313	PC	18 32 59.2	− 5.7		
DL2	91.3	319	EP	18 33 16.0	− 5.4		
TIA	91.8	315	P	18 33 22.0	− 1.7		
			PP	18 36 58.0	− 5.8		
			S_mN			11.5	0.6
			S_mE			11.5	0.7
			EXS	18 44 30.0	− 4.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ESS	18 50 41.0	11.0		
			LN	Ms=5.3		41.0	1.5
			LE			41.0	1.4
CN2	93.1	324	PR	18 33 27.0	− 2.8		
KMI	93.6	298	PU	18 33 33.0	0.7		
			P_mZ			5.0	0.4
			ES	18 44 36.0	− 1.2		
BJI	95.0	317	(P)	18 33 45.0	6.5		
XAN	95.2	308	EP	18 33 38.0	− 1.3		
			1984 12 29				
			O=01 06 57.8	+/− 0.08 SEC			
			LAT=24.70 N	+/− 1.51 KM			
			LONG=122.15 E	+/− 1.22 KM			
			DEPTH=52 KM	+/− 2.14 KM			
			Ms(CHINA)=5.3/25, mb(NEIS)=5.4, ML(CHINA)=5.9/2				
			STATIONS USED=61, STAND DEV=1.68 SEC				
QZH	3.2	275	PC	01 07 48.5	0.8		
			S	01 08 17.6	− 7.9		
			S_mN	ML=6.0		2.0	52.6
			S_mE			2.0	50.3
SSE	6.4	352	IPD	01 08 32.2	− 0.2		
			S	01 09 45.0	0.1		
			LG_1	01 10 19.0	− 0.8		
			LG_2	01 10 31.0	1.0		
			LN	Ms=5.3		5.0	5.9
			LE			5.0	13.3
NJ2	7.9	335	PD	01 08 50.8	− 1.7		
			ILG_1	01 11 00.0	− 5.4		
			LE	Ms=5.3		7.0	16.1
GZH	8.2	260	PR	01 08 57.0	− 0.1		
			S	01 10 21.3	− 8.2		
			LN			4.0	36.1
			LE			4.0	18.8
WHN	9.0	311	PC	01 09 08.0	− 0.5		
			LG_1	01 11 36.0	− 5.8		
			LG_2	01 11 52.5	− 3.6		
			LN	Ms=5.4		6.0	15.3
TIA	12.3	340	EP	01 09 51.2	− 1.2		
			ES	01 12 11.0	2.4		
			LG_1	01 13 21.0	− 2.0		
			LG_2	01 13 42.5	0.0		
			SCS	01 22 30.5	− 2.3		
			LN	Ms=5.2		6.0	2.4
			LE			7.0	5.8
QZH	12.7	246	IPD	01 10 00.0	1.3		
			P_mZ			4.0	14.8
			S	01 12 26.5	6.6		
			LG_1	01 13 36.0	− 1.8		
			LG_2	01 14 02.0	4.0		
			LN	Ms=5.3		7.0	8.5
			LE			8.0	5.6
GYA	14.1	280	PR	01 10 17.0	0.5		
			S	01 12 55.0	2.7		
			LG_2	01 14 34.0	− 8.5		
			LN	Ms=6.1		5.0	24.7
			LE			5.0	20.0
DL2	14.2	358	IPU	01 10 20.0	2.5		
			S	01 13 00.0	5.8		
			LN	Ms=4.7		10.0	2.0
			LE			10.0	2.0
XAN	14.8	311	IPD	01 10 26.0	0.1		
			P_mZ			4.0	2.5
			AP	01 10 40.0	5.2		
			S	01 13 06.5	− 2.8		
			LG_1	01 14 37.0	− 5.9		
			LG_2	01 14 56.0	−10.4		
			LN	Ms=5.7		5.0	10.2
			LE			4.0	7.1
TIY	15.4	329	IPU	01 10 36.0	2.5		
			P_mZ			4.0	1.5
			AP	01 10 49.0	6.5		
			XP	01 11 07.0	16.8		
			S	01 13 28.5	5.5		
			S_mN			7.0	2.6
			S_mE			7.0	4.3
			XS	01 13 47.0	10.0		
			PCP	01 15 25.0	−10.1		
			LN	Ms=5.1		8.0	4.6
			LE			9.0	3.0
CD2	17.4	294	IPD	01 10 58.0	− 0.7		
			P_mZ			1.2	0.6
			S	01 13 58.0	−16.5		
			LE			4.0	14.1
KMI	17.6	275	IPD	01 11 02.0	0.4		
			P_mZ			5.0	3.1
			AP	01 11 09.0	− 2.2		
			XP	01 11 16.0	− 2.5		
			S	01 14 20.0	− 2.6		
			XS	01 14 28.0	− 9.5		
			LE	Ms=5.5		8.0	10.1
HHC	18.4	333	PR	01 11 12.5	1.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			AP	01 11 30.0	9.3		
			S	01 14 41.0	1.3		
			S_mE			8.0	4.9
			LN	Ms=4.8		11.0	3.0
BTO	18.8	330	EP	01 11 16.2	0.0		
			PP	01 11 31.0	− 1.3		
			S	01 14 38.0	− 5.5		
			S_mN			9.0	4.6
			S_mE			9.0	6.4
			LN	Ms=5.0		10.0	3.3
			LE			10.0	2.1
CN2	19.2	7	IPU	01 11 20.0	− 0.9		
			P_mN			4.0	2.1
			P_mZ			4.0	3.1
			AP	01 11 28.0	− 3.4		
			ES	01 14 49.0	− 1.1		
			S_mN			7.0	1.5
			S_mE			7.0	2.6
			PCP	01 15 38.4	− 2.8		
			LN	Ms=4.9		11.0	3.1
LZH	19.4	310	PU	01 11 23.0	0.2		
			AP	01 11 32.0	− 1.4		
			S	01 14 55.0	1.0		
			S_mE			9.0	4.5
			LN	Ms=5.5		5.0	5.1
			LE			5.0	2.8
MDJ	20.8	15	IPC	01 11 37.0	− 0.1		
			LN	Ms=5.0		16.0	4.8
GTA	23.9	313	IPC	01 12 07.5	− 0.2		
			P_mZ			3.0	0.6
			AP	01 12 25.0	5.0		
			XP	01 12 32.3	5.8		
			SCP	01 19 21.1	− 1.3		
			S	01 16 15.0	− 2.4		
			S_mE			7.0	2.1
			LE	Ms=4.9		9.0	2.0
WMQ	33.9	312	PC	01 13 37.1	− 1.6		
			S	01 18 56.0	− 3.3		
			S_mN			7.0	0.9
			SCS	01 23 54.3	− 0.4		
			LN	Ms=5.0		10.0	1.5

1984 12 29
O=16 44 34.7 +/− 0.08 SEC
LAT=56.57 N +/− 1.67 KM
LONG=163.58 E +/− 0.84 KM
DEPTH=34 KM +/− 0.14 KM
Ms(CHINA)=4.7/1,mb(NEIS)=4.3
STATIONS USED=22, STAND DEV=0.80 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CN2	27.2	258	EP	16 50 19.0	1.7		
BTO	37.8	268	EP	16 51 50.2	0.1		
GTA	44.3	275	P	16 52 43.4	0.0		
			LE	Ms=4.7		11.0	0.6
WMQ	47.8	288	EP	16 53 10.5	− 0.5		

1984 12 30
O=06 56 36.7 +/− 0.04 SEC
LAT=6.50 S +/− 0.58 KM
LONG=130.25 E +/− 0.71 KM
DEPTH=150 KM +/− 0.14 KM
mb(NEIS)=5.1
STATIONS USED=20, SEAND DEV=0.78 SEC

CD2	45.0	327	(P)	07 04 39.4	0.0		
BJI	48.1	345	EP	07 05 03.5	0.0		
GTA	53.7	330	P	07 05 45.9	0.3		
WMQ	63.1	326	PD	07 06 51.8	0.5		

1984 12 30
O=15 06 47.3 +/− 0.24 SEC
LAT=36.61 S +/− 2.80 KM
LONG=177.68 E +/− 4.61 KM
DEPTH=20 KM +/− 1.08 KM
Ms(CHINA)=5.3/3,Msz(NEIS)=5.2,mb(NEIS)=5.1
STATIONS USED=13, STAND DEV=3.52 SEC

SSE	85.6	314	EP	15 19 25.0	− 1.6		
			ES	15 29 52.0	− 4.9		
			LN	Ms=5.3		24.0	0.7
			LE			24.0	1.3
NJ2	87.7	313	EP	15 19 36.0	− 0.6		
			LE	Ms=5.3		18.0	1.0
CN2	93.0	325	E(P)	15 20 12.0	10.4		

1984 12 30
O=20 26 29.0 +/− 0.22 SEC
LAT=44.52 N +/− 1.86 KM
LONG=110.56 E +/− 1.22 KM
DEPTH=33 KM +/− 0.04 KM
ML(CHINA)=4.1/9
STATIONS USED=6,STAND DEV=3.45 SEC

HHC	3.7	168	P	20 27 30.2	4.1		
			I	20 28 29.0			

STA. CODE	△ deg	AZ deg	PHASED	UTC h m s	RESID sec	T sec	A μ
			S_mN	ML=4.1		0.4	0.5
			S_mE			0.4	0.4
BTO	3.9	185	EP	20 27 32.3	3.4		
			I	20 27 43.5			
			I	20 28 34.2			
			S_mN	ML=3.8		0.4	0.2
			S_mE			0.4	0.2
BJI	6.1	135	EP	20 28 01.0	1.6		
			I	20 29 43.0			
			S_mN	ML=4.5		0.5	0.3
			S_mE			0.5	0.4
TIY	6.9	167	P	20 28 40.6	20.2		
			I	20 30 08.2			
			S_mN	ML=4.1		0.7	0.1
			S_mE			0.8	0.08
XAN	10.5	187	EP	20 29 05.5	4.4		
			LG_1	20 31 57.0	−3.2		

1984 12 30
O=20 59 56.3 +/− 0.13 SEC
LAT=36.71 S +/− 1.01 KM
LONG=177.73 E +/− 3.43 KM
DEPTH=38 KM +/− 1.02 KM
Ms(CHINA)=5.4/2,Msz(NEIS)=5.5,mb(NEIS)=5.1
STATIONS USED=12, STAND DEV=2.08 SEC

QZH	82.8	308	EP	21 12 17.0	−2.0		
			S	21 22 39.5	5.7		
			LN	Ms=5.3		23.0	1.6
SSE	85.7	314	EP	21 12 31.0	−2.6		
			LN	Ms=5.6		24.0	1.4
			LE			24.0	2.3
NJ2	87.8	313	EP	21 12 42.8	−0.8		
			ES	21 23 20.0	−2.2		
CN2	93.1	324	EP	21 13 11.4	2.8		
KMI	93.6	298	EP	21 13 12.5	1.6		

1984 12 30
O=21 36 58.5 +/− 0.15 SEC
LAT=36.62 S +/− 6.86 KM
LONG=177.69 E +/− 5.13 KM
DEPTH=42 KM +/− 2.08 KM
Ms(CHINA)=6.6/28,Msz(NEIS)=6.8,mb(NEIS)=6.2
STATIONS USED=78, STAND DEV=3.16 SEC

QZH	82.8	308	PR	21 49 20.0	−0.3		
			PP	21 52 41.5	10.2		
			S	21 59 44.0	9.2		
			S_mN			13.0	5.9
			S_mE			13.0	15.1
			SS	22 05 01.0	2.2		
			LN	Ms=6.4		18.0	14.9
QZH	84.6	298	P	21 49 30.5	1.0		
			S	21 59 43.0	−9.4		
			S_mN			11.0	3.6
			S_mE			16.0	8.5
			LN	Ms=6.4		14.0	3.5
			LE			21.0	16.7
GZH	84.9	303	P	21 49 30.5	−0.5		
			S	21 59 56.0	0.6		
			S_mN			13.0	3.0
			S_mE			16.0	13.2
			SS	22 05 30.5	1.0		
			LN	Ms=6.7		42.0	19.6
			LE			42.0	57.1
SSE	85.7	314	EP	21 49 31.0	−3.8		
			AP	21 49 44.0	−2.7		
			PP	21 52 56.0	1.7		
			S	21 59 58.0	−5.0		
			S_mN			26.0	16.6
			S_mE			24.0	23.1
			PS	22 01 09.0			
			SS	22 05 40.0	−1.3		
			LN			22.0	191.1
			LE			22.0	32.2
NJ2	87.7	313	PU	21 49 45.5	0.7		
			PP	21 53 16.0	4.1		
			SKS	22 00 08.0	2.4		
			S	22 00 24.0	1.4		
			S_mE			13.0	8.8
			LE	Ms=6.4		17.0	11.7
WHN	89.4	309	EP	21 49 56.0	3.3		
			LN	Ms=6.4		19.0	12.4
DL2	91.2	319	P	21 50 02.0	0.7		
			AP	21 50 12.0	−1.3		
			PP	21 53 43.0	4.2		
			SKS	22 00 30.0	3.2		
			LN	Ms=6.6		21.0	19.7
			LE			20.0	8.6
GYA	91.6	301	P	21 50 05.0	1.5		
			SKS	22 00 33.0	3.8		
			S	22 01 12.0	13.4		
			LN	Ms=6.5		19.0	11.2
			LE			19.0	12.4

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIA	91.7	315	EP	21 50 03.0	− 0.0		
			XP	21 50 14.0	− 6.5		
			PP	21 53 40.0	− 3.5		
			PPmZ			8.0	2.4
			ESKS	22 00 33.0	3.5		
			SmN			15.0	9.0
			SmE			14.0	7.3
			XS	22 01 11.5	− 7.6		
			LN	Ms=6.7		22.0	20.4
			LE			21.0	17.9
MDJ	91.8	327	EP	21 50 04.0	− 0.2		
			SKS	22 00 36.0	5.7		
			LN	Ms=6.6		26.0	28.6
SNY	92.4	322	EP	21 50 08.4	1.5		
			PP	21 53 55.0	5.4		
			SKS	22 00 44.0	10.4		
			SmN			15.0	11.9
			SmE			13.0	6.4
			XS	22 01 20.0	− 5.4		
			SS	22 07 18.0	− 0.4		
			LE	Ms=6.6		30.0	31.3
CN2	93.0	325	PU	21 50 09.7	− 0.1		
			PmE			5.0	0.5
			PmZ			6.0	1.9
			EPP	21 53 52.0	− 2.4		
			PPmZ			6.0	3.1
			SKS	22 00 42.0	4.8		
			ES	22 01 12.0	1.4		
			SmN			10.0	3.3
			SmE			10.0	3.2
			ESS	22 07 26.0	− 1.8		
			LN	Ms=6.6		22.0	14.5
			LE			22.0	17.0
KMI	93.5	298	EP	21 50 12.5	0.3		
			XP	21 50 27.5	− 1.4		
			SKS	22 00 52.0	12.2		
			S	22 01 27.0	11.8		
			SmE			18.0	14.5
			LE	Ms=6.8		24.0	43.4
BJI	94.9	317	EP	21 50 18.0	− 0.4		
			ESKS	22 00 51.0	3.4		
			ES	22 01 33.0	6.2		
			SmE			12.0	2.7
			ESS	22 08 04.0	9.7		
			LN	Ms=6.4		19.0	13.1
XAN	95.1	309	EP	21 50 18.1	− 1.1		
			XP	21 50 30.0	− 6.1		
			PP	21 54 20.0	10.1		
			SKS	22 00 53.0	4.4		
			S	22 01 41.0	12.6		
			SmN			10.0	2.9
			SmE			13.0	7.5
			SS	22 08 10.0	13.2		
			LN	Ms=6.3		17.0	1.4
			LE			19.0	9.6
TIY	95.4	313	P	21 50 22.0	1.2		
			SKS	22 00 55.0	4.7		
			XS	22 01 51.5	0.1		
			PS	22 03 47.5			
			SS	22 08 20.0	18.6		
			LN	Ms=6.6		22.0	12.3
			LE			23.0	18.7
CD2	96.4	303	EP	21 50 32.6	7.3		
			ES	22 01 52.5	12.7		
			LN	Ms=6.6		18.0	19.5
LZH	99.6	307	EP	21 50 40.0	0.2		
			PP	21 54 55.0	10.0		
			ESKS	22 01 17.0	5.0		
			EXS	22 02 30.0	− 6.7		
			LN	Ms=6.6		18.0	12.1
			LE			14.5	10.0
WMQ	114.2	307	EPKP	21 55 31.0	− 3.5		
			PP	21 56 30.5	− 3.0		
			SKKS	22 03 25.0			

1984 12 30

O=23 33 37.3 +/− 0.09 SEC

LAT=24.77 N +/− 1.99 KM

LONG=92.88 E +/− 1.40 KM

DEPTH=21 KM +/− 0.31 KM

Ms(CHINA)=5.5/30, mb(NEIS)=5.6, ML(CHINA)=5.3/3

STATIONS USED=97, STAND DEV=1.75 SEC

KMI	9.0	85	PC	23 35 50.0	1.1		
			XP	23 35 59.0	0.7		
			S	23 37 38.0	7.4		
			LN	Ms=5.7		10.0	48.9
CD2	11.4	55	EP	23 36 20.6	− 1.8		
			ES	23 38 30.0	− 0.5		
			LN	Ms=5.0		31.0	20.8
GYA	12.5	79	P	23 36 36.6	− 1.4		
			S	23 38 56.0	0.4		
			LN	Ms=5.4		10.0	14.1

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			10.0	10.8
GTA	15.7	20	P	23 37 17.1	− 2.6		
			P_mZ			4.0	0.8
			LE	Ms=5.3		9.0	8.8
XAN	16.7	52	PC	23 37 29.9	− 2.6		
			S	23 40 46.0	8.6		
			S_mN			6.0	8.4
			S_mE			5.0	5.3
			LN	Ms=5.4		10.0	8.6
			LE			9.0	5.3
QZN	16.7	106	EP	23 37 36.0	3.5		
			S	23 40 40.0	2.6		
			LN	Ms=5.5		13.0	12.3
			LE			13.0	21.2
GZH	18.8	90	P	23 37 57.8	− 1.1		
			S	23 41 27.0	0.4		
			LN	Ms=5.5		8.0	7.4
			LE			8.0	6.5
WMQ	19.5	348	IPC	23 38 06.5	0.5		
			P_mZ			4.0	5.2
			S	23 41 46.0	6.6		
			XS	23 41 51.0	2.3		
			SS	23 42 15.0	−10.1		
			LE	Ms=5.6		12.0	17.1
WHN	19.9	68	PR	23 38 09.0	− 1.2		.6
			S	23 41 56.0	8.4		
			S_mN			7.0	3.1
			LN	Ms=5.7		8.0	12.6
TIY	21.1	47	EP	23 38 21.6	− 1.3		
			P_mZ			1.0	0.4
			S	23 42 15.5	3.5		
			LN	Ms=5.4		8.0	5.2
			LE			9.0	5.4
BTO	21.3	38	EP	23 38 24.2	− 1.3		
			S	23 42 13.0	− 3.8		
			LN	Ms=5.6		9.0	10.3
			LE			9.0	6.0
HHC	22.4	39	PD	23 38 37.0	1.0		
			S	23 42 40.0	3.7		
			S_mE			5.0	8.6
			LN	Ms=5.7		10.0	8.6
			LE			9.0	8.9
QZH	23.3	84	EP	23 38 45.0	− 0.3		
			ES	23 42 58.0	4.8		
			S_mN			9.0	1.8
			S_mE			9.0	1.7
			LG_2	23 46 30.0	3.3		
			LN	Ms=5.9		8.0	16.0
TIA	23.7	55	EP	23 38 50.0	0.7		
			P_mN			5.0	0.8
			P_mE			5.0	1.3
			P_mZ			6.0	2.2
			S	23 43 07.5	7.1		
			S_mN			10.0	1.9
			S_mE			10.0	2.7
			LN	Ms=5.3		11.5	3.2
			LE			11.0	4.7
NJ2	23.9	66	PU	23 38 51.0	− 0.2		
			P_mZ			6.0	1.9
			LN	Ms=5.5		14.0	7.7
			LE			10.0	5.3
BJI	24.8	46	EP	23 39 00.5	1.2		
			P_mN			6.0	0.9
			P_mE			5.0	1.5
			P_mZ			6.0	2.6
			ES	23 43 20.0	1.9		
			EXS	23 43 32.0	2.4		
			LN	Ms=5.9		7.0	5.0
SSE	25.7	69	EP	23 39 07.5	− 1.1		
			P_mZ			1.2	0.1
			XS	23 43 43.0	− 3.1		
			SS	23 44 36.0	− 2.0		
			LN	Ms=5.5		8.0	4.3
			LE			7.0	3.3
DL2	28.1	52	P	23 39 31.0	1.2		
			S	23 44 15.0	2.9		
			LN	Ms=5.2		19.0	4.2
			LE			18.0	4.9
SNY	30.6	48	EP	23 39 53.1	0.9		
CN2	32.6	46	PU	23 40 10.0	− 0.4		
			P_mE			4.0	0.8
			P_mZ			4.0	1.2
			PCP	23 42 57.0	1.3		
			ES	23 45 23.0	− 1.6		
			LN	Ms=5.4		13.0	3.5
			LE			13.0	3.8

1984 12 31

O=06 00 36.7 +/− 0.23 SEC

LAT=3.03 S +/− 2.31 KM

LONG=127.96 E +/− 3.78 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=44 KM +/- 2.70 KM							
mb(NEIS)=4.9							
STATIONS USED=19, STAND DEV=3.28 SEC							
KMI	37.2	320	EP	06 07 55.5	9.4		
CD2	40.9	327	EP	06 08 17.3	0.5		
XAN	41.0	335	EP	06 08 16.4	- 1.4		
BJI	44.2	347	(P)	06 08 50.5	6.7		
LZH	45.0	332	EP	06 08 48.5	- 1.6		
WMQ	59.0	326	P	06 10 33.5	- 1.5		
			E				
1984 12 31							
O=10 08 17.4 +/- 1.01 SEC							
LAT=18.78 S +/- 9.02 KM							
LONG=173.81 W +/- 11.93 KM							
DEPTH=33 KM +/- 9.86 KM							
Ms(CHINA)=5.4/13, Msz(NEIS)=5.5, mb(NEIS)=5.4							
STATIONS USED=36, STAND DEV=4.96 SEC							
QZH	78.8	301	EP	10 20 23.5	3.9		
			LE	Ms=4.9		24.0	0.8
SSE	79.7	307	P	10 20 28.5	4.3		
			S	10 30 20.0	- 3.5		
			LE	Ms=5.1		24.0	0.9
MDJ	81.5	322	EP	10 20 38.3	4.7		
DL2	83.3	314	PU	10 20 48.0	5.1		
			LN	Ms=5.4		18.0	0.9
			LE			17.0	1.1
CN2	83.4	320	PU	10 20 48.0	4.3		
			P_mZ			8.0	1.6
			ES	10 31 00.0	- 1.9		
			S_mN			12.0	1.0
			S_mE			12.0	0.7
			LE	Ms=5.6		20.0	2.4
SNY	83.5	318	PU	10 20 48.6	4.5		
			S	10 31 17.0	14.3		
			LN	Ms=5.3		21.0	1.2
			LE			22.0	0.8
WHN	84.7	304	EP	10 20 54.0	4.0		
TIA	85.1	310	PD	10 20 57.6	5.5		
			PP	10 24 15.0	4.9		
			ES	10 31 25.0	6.5		
			SS	10 37 08.0	14.3		
			LN	Ms=5.7		21.5	2.0
			LE			20.0	2.2
BJI	87.5	313	EP	10 21 08.0	4.1		
			P_mZ			5.0	0.4
			EXS	10 32 02.0	4.5		
			LE	Ms=5.3		18.0	1.0
TIY	89.1	310	P	10 21 17.0	5.2		
			S	10 31 52.0	- 4.9		
			LN	Ms=5.5		18.0	1.1
			LE			18.0	1.1
GYA	89.3	298	PU	10 21 17.0	4.5		
			S	10 31 54.0	- 4.4		
XAN	90.3	305	PD	10 21 22.4	5.2		
			ES	10 32 06.5	- 0.9		
HHC	91.0	312	EP	10 21 26.0	5.2		
BTO	92.0	312	EP	10 21 31.0	5.7		
			ESKS	10 32.00.0	7.3		
			ES	10 32 20.0	- 2.8		
KMI	92.1	295	PC	10 21 31.0	5.1		
			AP	10 21 42.0	6.7		
			ES	10 32 33.0	- 1.1		
			XS	10 32 50.0	10.4		
			LN	Ms=5.5		22.0	1.9
CD2	93.2	301	(P)	10 21 36.8	6.0		
LZH	94.9	306	EP	10 21 42.5	4.0		
GTA	99.0	308	EP	10 21 57.3	0.3		
1984 12 31							
O=13 00 32.2 +/- 0.21 SEC							
LAT=23.08 S +/- 3.00 KM							
LONG=66.90 W +/- 0.67 KM							
DEPTH=170 KM +/- 1.62 KM							
mb(NEIS)=5.6							
STATIONS USED=24, STAND DEV=2.19 SEC							
CN2	157.0	336	PKP_1	13 20 06.7	- 1.4		
			APKP	13 20 17.5			
			PKP_2	13 20 37.8			
GTA	160.2	31	PKP	13 20 12.6	0.5		
BJI	162.9	351	EPKP	13 20 15.0	0.4		
LZH	164.8	29	EPKP	13 20 18.0	1.3		
TIA	166.5	345	EPKP	13 20 18.0	0.1		
XAN	168.5	17	PKP	13 20 19.1	- 0.2		
CD2	168.6	44	EPKP	13 20 21.0	1.6		

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