STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 1							
O=09 59 00.6			+/- 0.22 SEC				
LAT=5.72 S			+/- 3.56 KM				
LONG=124.72 E			+/- 4.68 KM				
DEPTH=600 KM			+/- 0.49 KM				
mb(NEIS)=5.7							
STATIONS USED=103, STAND DEV=3.01 SEC							
QZN	28.6	329	IPU	10 04 13.0	0.7		
			P_mZ			5.0	1.1
			EXP	10 06 52.5	- 3.3		
			S	10 08 19.5	- 1.9		
GZH	30.7	339	IPU	10 04 31.1	1.1		
			P_mZ			4.0	1.2
			IS	10 08 52.0	- 1.6		
			S_mN			10.0	5.3
			S_mE			8.0	2.5
QZH	31.1	349	PU	10 04 32.0	- 0.9		
			XP	10 07 15.0	- 2.9		
			IS	10 08 54.5	- 4.3		
			S_mN			8.0	3.0
			S_mE			6.0	1.4
			SS	10 11 59.0	- 7.0		
GYA	36.5	332	PU	10 05 19.5	1.4		
			P_mZ			3.0	1.0
			AP	10 07 01.0	2.5		
			PCP	10 07 26.6	1.2		
			S	10 10 18.0	- 2.6		
			S_mN			6.0	3.0
			SCS	10 14 25.0	1.9		
SSE	36.8	354	IPR	10 05 21.0	0.6		
			P_mN			0.8	0.09
			P_mZ			0.8	0.2
			AP	10 07 04.0	2.8		
			XP	10 08 06.0	- 2.0		
			IS	10 10 22.0	- 2.7		
			S_mN			10.0	2.9
			S_mE			10.0	2.6
			SS	10 13 31.0	- 1.3		
KMI	37.4	326	IPC	10 05 28.0	2.3		
			P_mZ			3.0	0.9
			AP	10 07 11.0	4.4		
			PP	10 07 17.0	4.8		
			PP_mZ			2.0	1.4
			PCP	10 07 31.0	2.8		
			SCP	10 10 24.0	5.7		
			IS	10 10 35.0	0.8		
			S_mN			5.0	4.2
			SS	10 13 47.0	4.2		
NJ2	38.0	351	IPR	10 05 31.4	1.1		
			P_mZ			1.0	0.8
			PP	10 07 18.0	0.5		
			PCP	10 07 30.4	0.3		
			XP	10 08 17.0	- 1.5		
			SCP	10 10 22.5	1.9		
			IS	10 10 40.0	- 2.4		
			S_mN			6.0	3.3
			S_mE			6.0	1.9
			SCS	10 14 33.0	1.2		
CD2	41.6	332	IPC	10 06 00.6	1.3		
			EAP	10 07 43.0	- 0.1		
			SCP	10 10 37.0	2.3		
			IS	10 11 30.0	- 4.5		
			S_mN			3.0	3.5
XAN	42.3	340	IPD	10 06 04.7	- 0.1		
			PCP	10 07 45.0	0.7		
			PP	10 07 56.0	0.9		
			XP	10 08 51.0	- 3.6		
			SCP	10 10 38.7	1.2		
			S	10 11 41.0	- 3.4		
			S_mN			7.5	3.9
TIA	42.3	350	PR	10 06 04.5	- 0.5		
			PCP	10 07 45.5	1.1		
			SCP	10 10 40.0	2.3		
			S	10 11 41.0	- 3.9		
			S_mN			6.0	3.8
			S_mE			6.0	1.4
			SCS	10 15 01.5	3.5		
			SS	10 15 05.0	- 2.4		
DL2	44.5	356	IPR	10 06 21.2	- 0.8		
			PCP	10 07 52.0	0.1		
			XP	10 09 09.0	- 3.8		
			S	10 12 11.0	- 4.4		
			S_mN			5.0	1.9
			S_mE			5.0	1.7
			SCS	10 15 12.0	0.2		
			ESS	10 15 45.0	2.8		
TIY	44.7	346	IPD	10 06 23.4	- 0.3		
			P_mZ			0.8	0.1
			PCP	10 07 53.0	0.3		
			AP	10 08 11.0	1.6		
			XP	10 09 12.0	- 2.5		
			IS	10 12 14.0	- 4.6		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_mE			3.0	1.7
			SCS	10 15 14.0	0.9		
LZH	46.0	336	IPD	10 06 34.5	1.0		
			P_mZ			1.5	0.7
			PCP	10 07 58.5	1.3		
			AP	10 08 22.0	2.1		
			SCP	10 10 54.5	1.9		
			IS	10 12 35.0	− 1.4		
			S_mN			2.0	2.1
BJI	46.2	350	EP	10 06 34.5	− 0.6		
			P_mZ			2.0	0.5
			EPCP	10 07 58.5	0.4		
			EPP	10 08 33.0	− 1.0		
			XP	10 09 24.5	− 2.2		
			ESCP	10 10 55.5	1.9		
			ES	10 12 30.5	− 8.8		
			S_mN			6.5	2.3
			S_mE			5.5	0.9
			ESCS	10 15 24.5	1.4		
SNY	47.3	358	IPR	10 06 42.9	− 0.7		
			P_mZ			3.0	0.9
			PCP	10 08 00.0	− 2.1		
			AP	10 08 33.0	1.9		
			PP	10 08 43.0	− 1.3		
			XP	10 09 31.0	− 4.8		
			S	10 12 51.0	− 3.8		
			S_mN			11.0	1.7
			S_mE			10.0	1.7
			XS	10 16 08.0	1.3		
			SS	10 16 27.0	− 5.3		
LSA	47.7	319	PU	10 06 49.0	1.9		
			AP	10 08 39.0	4.6		
			IS	10 13 02.0	0.7		
			S_mN			6.0	2.3
			S_mE			5.0	3.1
HHC	47.9	346	PD	10 06 47.8	− 0.1		
BTO	48.0	344	EP	10 06 48.0	− 1.0		
			PCP	10 08 04.0	− 0.7		
			AP	10 08 37.0	0.2		
			S	10 13 02.0	− 2.7		
			S_mN			8.0	1.1
			S_mN			8.0	0.9
CN2	49.3	0	IPR	10 06 57.0	− 1.3		
			P_mZ			3.0	0.7
			PCP	10 08 09.0	− 0.4		
			SCP	10 11 08.0	1.4		
			ES	10 13 15.0	− 6.6		
			S_mN			4.0	0.6
			S_mE			4.0	0.8
			SCS	10 15 43.0	− 0.8		
			ESS	10 16 55.0	− 8.8		
MDJ	50.3	4	IPD	10 07 05.7	0.1		
			XP	10 09 55.0	− 4.2		
			PCS	10 12 09.0	2.7		
			IS	10 13 33.0	− 2.1		
			SCS	10 15 50.0	− 0.6		
			XS	10 16 48.0	− 2.1		
			SS	10 17 17.0	− 2.6		
GTA	50.5	334	IPD	10 07 07.7	0.7		
			P_mZ			1.5	0.2
			PCP	10 08 15.1	1.4		
			AP	10 08 57.5	1.1		
			XP	10 10 00.0	− 0.5		
			IS	10 13 29.0	− 8.6		
			S_mN			4.0	0.4
			SCS	10 15 51.0	− 0.8		
WMQ	59.5	329	IPD	10 08 10.5	0.5		
			PCP	10 08 50.0	0.9		
			AP	10 10 06.5	0.7		
			XP	10 11 07.0	− 1.1		
			IS	10 15 34.0	− 1.4		
			S_mN			5.0	5.2
			SCS	10 16 59.0	1.6		
KSH	63.5	319	IPR	10 08 37.0	1.1		
			PCP	10 09 09.0	3.6		
			AP	10 10 39.0	5.0		
			IS	10 16 29.0	4.4		
			S_mN			3.0	4.2
			S_mE			3.0	4.3

1984 4 1

O = 17 57 33.6 +/− 0.12 SEC
LAT = 23.60 S +/− 0.85 KM
LONG = 179.92 W +/− 0.94 KM
DEPTH = 527 KM +/− 1.50 KM
mb(NEIS) = 5.0
STATIONS USED = 29, STAND DEV = 0.91 SEC

NJ2	80.5	311	PC	18 08 53.6	1.1
MDJ	82.1	326	EP	18 09 00.7	0.3
CN2	83.7	323	PD	18 09 08.4	− 0.2
TIA	84.1	313	EP	18 09 11.1	0.6
GYA	86.7	300	P	18 09 23.6	0.5

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	86.9	316	EP	18 09 24.0	0.1		
XAN	88.6	308	PD	18 09 32.9	0.7		
KMI	89.2	297	EP	18 09 36.5	1.4		
CD2	91.0	303	EP	18 09 44.6	1.5		

1984 4 1
O=19 43 12.3 +/- 0.08 SEC
LAT=40.18 N +/- 0.80 KM
LONG=139.12 E +/- 0.98 KM
DEPTH=44 KM +/- 0.44 KM
mb(NEIS)=4.6
STATIONS USED=14, STAND DEV=1.35 SEC

CN2	10.8	294	EP	19 45 45.4	- 2.1		
BJI	17.6	276	(P)	19 47 16.5	0.9		
TIA	17.7	264	EP	19 47 20.0	2.1		

1984 4 1
O=21 28 08.7 +/- 0.12 SEC
LAT=17.64 S +/- 1.11 KM
LONG=167.83 E +/- 1.33 KM
DEPTH=32 KM +/- 0.47 KM
Msz(NEIS)=5.0, mb(NEIS)=5.0
STATIONS USED=39, STAND DEV=1.11 SEC

NJ2	68.1	316	EP	21 39 07.5	- 0.8		
			AP	21 39 20.4	2.7		
MDJ	71.1	332	EP	21 39 26.0	- 0.5		
TIA	71.9	318	EP	21 39 28.3	- 2.8		
CN2	72.4	329	PC	21 39 33.0	- 1.3		
BJI	74.9	321	EP	21 39 48.5	- 0.1		
XAN	76.0	312	EP	21 39 54.7	- 0.8		
KMI	76.3	302	PC	21 39 57.5	0.4		
HHC	78.1	319	EP	21 40 07.0	- 0.3		
CD2	78.2	307	EP	21 40 08.4	0.8		
LZH	80.7	312	EP	21 40 21.0	- 0.1		
GTA	85.1	313	EP	21 40 43.3	- 0.3		
LSA	87.6	302	EP	21 40 57.7	1.7		
WMQ	95.1	314	E(P)	21 41 31.0	0.0		

1984 4 1
O=21 31 47.6 +/- 0.20 SEC
LAT=17.27 S +/- 2.87 KM
LONG=167.67 E +/- 2.61 KM
DEPTH=19 KM +/- 0.69 KM
STATIONS USED=23, STAND DEV=2.58 SEC

TIA	71.5	318	EP	21 43 09.0	- 0.8		
CN2	72.0	329	PD	21 43 13.4	0.5		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	74.5	321	EP	21 43 26.0	- 1.3		
XAN	75.7	312	PD	21 43 35.0	0.6		

1984 4 2
O=00 24 34.5 +/- 0.35 SEC
LAT=49.37 N +/- 7.69 KM
LONG=156.22 E +/- 4.77 KM
DEPTH=43 KM +/- 0.60 KM
Ms(CHINA)=4.3/3, Msz(NEIS)=4.8, mb(NEIS)=5.0
STATIONS USED=35, STAND DEV=3.96 SEC

MDJ	18.7	265	EP	00 28 52.5	0.2		
CN2	21.8	266	EP	00 29 20.8	- 3.8		
			ES	00 33 17.0	- 1.1		
			LN	Ms=4.3		17.0	1.0
SNY	23.9	264	EP	00 29 46.0	0.5		
			ES	00 34 02.0	5.9		
			LN	Ms=4.4		18.0	0.8
			LE			18.0	0.7
XAN	37.8	264	(P)	00 31 51.5	2.3		
GTA	40.6	277	EP	00 32 12.5	- 0.2		
GYA	44.3	257	P	00 32 44.0	1.4		
WMQ	45.9	290	P	00 32 55.0	- 0.6		
KMI	47.8	259	EP	00 33 09.0	- 1.1		
LSA	52.2	273	EP	00 33 44.6	0.3		

1984 4 2
O=03 32 35.7 +/- 0.02 SEC
LAT=19.12 N +/- 0.24 KM
LONG=121.10 E +/- 0.21 KM
DEPTH=191 KM +/- 0.26 KM
mb(NEIS)=4.8,
STATIONS USED=10, STAND DEV=3.80 SEC

QZN	10.7	271	E(P)	03 34 54.3	- 9.9		
BJI	21.4	349	E(P)	03 37 02.0	- 6.4		

1984 4 2
O=04 59 20.8 +/- 0.17 SEC
LAT=30.12 N +/- 1.69 KM
LONG=68.63 E +/- 3.72 KM
DEPTH=24 KM +/- 3.04 KM
Ms(CHINA)=5.0/22, Msz(NEIS)=5.1, mb(NEIS)=5.1
STATIONS USED=49, STAND DEV=0.93 SEC

KSH	11.1	30	PU	05 02 02.0	0.5		
			LE	Ms=5.8		8.0	36.8
LSA	19.5	85	EP	05 03 49.2	- 0.8		
			S	05 07 22.2	- 1.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN	Ms=4.8		13.0	1.9
			LE			11.0	2.1
WMQ	20.4	42	P	05 04 00.0	0.8		
			S	05 07 36.0	− 5.9		
			LN	Ms=5.1		14.0	6.5
GTA	27.1	61	PC	05 05 05.8	1.2		
			S	05 09 43.0	2.8		
			LN	Ms=4.9		15.0	2.3
LZH	30.0	69	PC	05 05 30.0	− 0.2		
CD2	30.2	79	EP	05 05 33.6	1.6		
			ES	05 10 25.5	− 3.6		
			LN	Ms=5.0		11.0	1.8
KMI	30.6	91	EP	05 05 34.5	− 0.9		
			S	05 10 39.0	3.9		
			LE	Ms=4.7		14.0	1.3
GYA	33.6	36	P	05 06 01.0	− 0.8		
			S	05 11 25.0	2.7		
			LN	Ms=4.7		13.0	1.0
XAN	34.2	72	PC	05 06 06.2	− 0.9		
			ES	05 11 32.5	0.7		
			LN	Ms=5.0		14.0	2.1
BTO	35.1	61	EP	05 06 15.0	0.6		
HHC	36.2	60	EP	05 06 26.0	1.5		
TIY	36.9	66	EP	05 06 29.9	0.2		
			ES	05 12 18.0	5.2		
			LN	Ms=5.2		15.0	2.7
BJI	39.7	62	EP	05 06 54.0	0.4		
			LN	Ms=4.7		12.0	0.7
GZH	40.4	89	PD	05 06 58.7	− 0.3		
			ES	05 13 08.0	2.0		
			LN	Ms=4.9		13.0	1:1
TIA	40.7	68	EP	05 07 01.6	− 0.1		
			ES	05 13 15.0	4.2		
			LN	Ms=5.0		14.0	1.0
			LE			14.0	1.1
NJ2	42.7	74	PD	05 07 19.0	0.6		
			LE	Ms=4.9		11.0	0.8
SSE	44.9	74	EP	05 07 33.0	− 2.7		
			LN	Ms=5.1		14.0	1.5
SNY	45.3	59	EP	05 07 36.4	− 2.5		
			ES	05 14 15.0	− 2.6		
			LE	Ms=5.0		17.0	1.5
CN2	46.6	56	EP	05 07 48.3	− 0.6		
			ES	05 14 33.0	− 2.7		
MDJ	49.5	55	EP	05 08 11.0	− 0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 2							
O=09 10 57.1			+/−	0.09 SEC			
LAT=36.36 N			+/−	2.22 KM			
LONG=141.12 E			+/−	1.63 KM			
DEPTH=51 KM			+/−	1.25 KM			
Ms(CHINA)=4.1/7, mb(NEIS)=5.1							
STATIONS USED=64, STAND DEV=1.72 SEC							
MDJ	12.0	316	EP	09 13 52.0	3.4		
CN2	14.1	306	PD	09 14 15.6	− 0.3		
			AP	09 14 23.0	− 1.7		
			ES	09 16 52.0	0.2		
			LN	Ms=4.0		12.0	0.6
SNY	14.7	297	PD	09 14 24.5	1.2		
			ES	09 17 08.0	2.9		
			ESS	09 17 28.0	6.3		
			LN	Ms=4.1		16.0	0.6
			LE			18.0	0.9
DL2	15.6	285	EP	09 14 37.8	1.8		
			ES	09 17 34.0	5.9		
			LN	Ms=4.3		12.0	0.3
			LE			16.0	1.3
SSE	17.4	258	EP	09 15 00.8	3.0		
NJ2	18.9	263	EP	09 15 15.0	− 1.3		
			AP	09 15 25.0	− 1.5		
TIA	19.3	276	PD	09 15 19.6	− 1.6		
BJI	19.9	288	EP	09 15 26.0	− 1.6		
TIY	22.9	282	EP	09 15 56.0	− 1.8		
			LE	Ms=4.4		14.0	0.9
XAN	26.3	274	P	09 16 30.6	− 0.1		
GZH	27.4	248	EP	09 16 41.0	0.8		
LZH	30.0	280	PD	09 17 03.5	0.2		
GYA	30.9	261	P	09 17 11.0	− 0.5		
CD2	31.4	271	EP	09 17 16.6	0.3		
GTA	32.5	288	P	09 17 25.2	− 0.8		
			IPCP	09 20 13.4	2.6		
KMI	34.6	262	PD	09 17 44.5	0.4		
			ES	09 23 07.0	− 2.6		
WMQ	40.9	297	PC	09 18 38.0	1.2		
LSA	42.0	275	P	09 18 48.1	1.8		
1984 4 2							
O=13 49 31.4			+/−	0.12 SEC			
LAT=44.67 N			+/−	3.25 KM			
LONG=149.59 E			+/−	2.35 KM			
DEPTH=46 KM			+/−	1.63 KM			
Ms(CHINA)=4.6/17, Ms2(NEIS)=5.0, mb(NEIS)=5.6							

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=83, STAND DEV=2.19 SEC							
MDJ	14.2	276	EP	13 52 53.5	1.2		
			AP	13 53 02.0	1.3		
			ES	13 55 34.0	4.1		
			SS	13 55 48.0	2.1		
CN2	17.3	275	EP	13 53 31.4	− 0.2		
			PmZ			3.0	0.4
			AP	13 53 41.0	0.4		
			ES	13 56 42.0	0.8		
			LE	Ms=4.5		13.0	1.9
SNY	19.1	270	IPU	13 53 52.1	− 1.6		
			AP	13 54 00.0	− 3.3		
			S	13 57 25.0	3.0		
			LN	Ms=4.4		16.0	1.0
			LE			16.0	1.0
DL2	21.6	264	PU	13 54 19.0	− 0.2		
			S	13 58 13.0	2.3		
			LN	Ms=4.4		15.0	0.5
			LE			15.0	1.1
BJI	25.0	271	EP	13 54 53.0	0.1		
			PmZ			4.5	0.4
			EXP	13 55 09.0	− 1.0		
			ES	13 59 18.0	6.6		
			SmE			8.0	0.3
			LN	Ms=4.4		15.0	0.8
TIA	26.0	262	PC	13 55 01.8	− 0.2		
			XP	13 55 20.0	0.9		
			ES	13 59 29.0	1.6		
			LN	Ms=4.6		18.0	0.9
			LE			18.0	1.3
SSE	26.0	248	PC	13 55 03.5	1.0		
			PmZ			1.0	0.07
NJ2	27.0	252	IPD	13 55 12.6	1.0		
			S	13 59 52.0	7.5		
			LE	Ms=4.7		17.0	1.8
HHC	28.0	275	PU	13 55 21.0	0.3		
			ES	14 00 07.0	6.4		
			LE	Ms=4.7		17.0	1.8
TIY	28.6	269	PU	13 55 26.5	0.3		
			PmZ			1.2	0.04
			ES	14 00 18.0	7.6		
			LE	Ms=4.7		17.0	1.5
BTO	29.2	276	EP	13 55 31.0	− 0.3		
			EXS	14 00 40.5	1.4		
			LN	Ms=4.8		18.0	1.3
			LE			18.0	1.6
WHN	31.0	255	P	13 55 47.5	0.2		
XAN	32.9	265	PC	13 56 03.2	− 0.5		
			ES	14 01 20.0	2.6		
			XS	14 01 37.0	− 0.2		
			LN	Ms=4.5		15.0	0.7
LZH	35.5	272	IPC	13 56 26.8	0.5		
			PmZ			1.5	0.4
GZH	36.6	246	PC	13 56 36.2	1.0		
GTA	36.9	279	IPC	13 56 39.0	1.1		
			XP	13 56 51.0	− 4.2		
			PCP	13 59 01.2	2.9		
			ES	14 02 19.6	0.4		
			SCS	14 06 50.1	4.5		
			LE	Ms=4.8		12.5	1.1
CD2	38.2	264	PC	13 56 50.0	0.8		
			PmZ			1.0	0.1
			(S)	14 02 38.0	− 1.9		
GYA	38.8	256	P	13 56 54.6	0.3		
			AP	13 57 07.0	0.9		
			S	14 02 51.0	1.8		
KMI	42.4	258	PC	13 57 24.5	0.5		
			S	14 03 44.0	1.3		
WMQ	43.4	291	PC	13 57 31.5	− 0.2		
			PmZ			1.0	0.08
			ES	14 04 00.0	3.5		
			LN	Ms=5.1		16.0	1.8
LSA	47.9	272	PC	13 58 09.2	1.1		
1984 4 2							
O=14 47 41.3				**+/− 0.14 SEC**			
LAT=11.66 N				**+/− 0.35 KM**			
LONG=142.22 E				**+/− 0.78 KM**			
DEPTH=89 KM				**+/− 1.25 KM**			
mb(NEIS)=4.7							
STATIONS USED=11, STAND DEV=0.70 SEC							
BJI	36.5	325	EP	14 54 39.5	− 0.2		
GTA	46.6	314	EP	14 56 03.3	0.6		
1984 4 2							
O=16 08 02.3				**+/− 0.16 SEC**			
LAT=13.54 N				**+/− 5.76 KM**			
LONG=124.71 E				**+/− 3.88 KM**			
DEPTH=22 KM				**+/− 2.04 KM**			
mb(NEIS)=4.7							
STATIONS USED=16, STAND DEV=2.48 SEC							
GYA	21.2	309	EP	16 12 51.4	1.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIA	23.6	344	P	16 13 13.0	0.3		
KMI	23.7	302	EP	16 13 15.0	1.2		
XAN	24.9	327	EP	16 13 25.0	− 0.9		
CD2	25.9	315	EP	16 13 34.3	− 0.7		
BJI	27.4	345	EP	16 13 48.0	− 1.1		
CN2	30.2	1	EP	16 14 10.5	− 3.0		
LSA	34.9	302	P	16 14 55.7	0.1		

1984 4 2
O=19 05 39.0 +/− 0.09 SEC
LAT=13.90 N +/− 3.54 KM
LONG=95.59 E +/− 2.55 KM
DEPTH=30 KM +/− 2.31 KM
Ms(CHINA)=4.2/1, mb(NEIS)=4.4
STATIONS USED=10, STAND DEV=1.83 SEC

KMI	13.0	29	EP	19 08 48.5	3.2		
			AP	19 08 53.5	1.7		
			ES	19 11 08.0	− 2.6		
			LE	Ms=4.2		8.0	0.7
GYA	16.2	37	P	19 09 26.6	− 0.3		
			S	19 12 19.0	− 7.1		
LSA	16.3	346	EP	19 09 24.7	− 2.8		
CD2	18.5	22	PC	19 09 54.8	− 0.6		
LZH	23.3	17	PC	19 10 46.5	0.7		
			PmZ			2.0	0.08
XAN	23.4	28	EP	19 10 44.6	− 2.1		
WMQ	30.6	348	EP	19 11 54.5	1.6		
CN2	39.2	34	P	19 13 05.2	− 1.7		

1984 4 2
O=19 35 08.0 +/− 0.24 SEC
LAT=6.68 S +/− 4.02 KM
LONG=131.03 E +/− 4.71 KM
DEPTH=58 KM +/− 0.46 KM
mb(NEIS)=4.8
STATIONS USED=19, STAND DEV=4.71 SEC

XAN	45.6	334	EP	19 43 20.7	− 4.0		
CN2	50.5	354	EP	19 44 00.0	− 2.8		
LSA	52.7	315	EP	19 44 17.5	− 2.3		
GTA	54.2	330	EP	19 44 27.2	− 3.4		
WMQ	63.7	326	P	19 45 33.5	− 2.9		

1984 4 2
O=20 04 44.1 +/− 0.12 SEC
LAT=46.48 N +/− 2.70 KM
LONG=141.16 E +/− 2.12 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=34 KM +/− 0.41 KM							
Ms(CHINA)=4.6/16, mb(NEIS)=5.1							
STATIONS USED=59, STAND DEV=1.97 SEC							
MDJ	8.3	261	IPD	20 06 43.4	− 2.1		
			ES	20 08 18.0	− 1.5		
			LG1	20 08 58.0	− 7.8		
			LG2	20 09 13.0	− 6.0		
CN2	11.4	262	EP	20 07 26.5	− 1.5		
			ES	20 09 30.0	− 5.5		
			LG2	20 10 51.0	− 9.8		
			LN	Ms=4.7		13.0	4.5
BJI	19.3	259	EP	20 09 05.5	− 3.1		
			LN	Ms=4.4		12.0	0.9
			LE			13.0	0.6
TIA	20.7	248	P	20 09 27.1	3.2		
			ES	20 13 12.5	4.1		
			LN	Ms=4.7		11.0	0.7
			LE			11.0	1.5
SSE	21.8	232	EP	20 09 37.5	2.5		
			S	20 13 32.0	3.0		
HHC	22.1	265	E(P)	20 09 43.0	5.0		
			ES	20 13 34.0	− 0.6		
			LE	Ms=4.6		12.0	1.5
NJ2	22.4	237	EP	20 09 40.8	− 0.2		
			ES	20 13 46.0	5.9		
			LE	Ms=4.3		11.0	0.7
TIY	22.9	257	EP	20 09 48.4	1.7		
			ES	20 13 55.0	4.5		
			LN	Ms=4.4		13.0	0.8
BTO	23.2	266	EP	20 09 48.0	− 1.5		
			ES	20 13 50.0	− 5.6		
			LN	Ms=4.6		10.0	0.6
			LE			10.0	0.8
GTA	30.8	271	EP	20 10 58.5	− 0.9		
			LE	Ms=4.5		11.0	0.5
CD2	32.7	254	EP	20 11 15.8	− 0.4		
GYA	33.8	245	EP	20 11 23.6	− 2.0		
			S	20 16 52.0	5.4		
			LE	Ms=4.7		12.0	0.8
WMQ	37.2	285	P	20 11 54.0	− 0.5		
KMI	37.3	248	EP	20 11 55.5	0.5		
			ES	20 17 42.0	2.1		
			LN	Ms=4.8		10.0	0.7
QZN	37.6	233	EP	20 12 00.6	3.3		
LSA	42.0	264	PC	20 12 34.7	− 0.3		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 2							
O=21 41 48.8			+/− 0.23 SEC				
LAT=37.68 N			+/− 2.40 KM				
LONG=102.16 E			+/− 2.20 KM				
DEPTH=2 KM			+/− 0.74 KM				
ML(CHINA)=3.8/6							
STATIONS USED=8, STAND DEV=4.64 SEC							
LZH	2.1	139	PG	21 42 28.0	1.2		
			SG	21 42 55.0	0.9		
			SmN	ML=3.8	0.5	0.7	
			SmE		0.5	0.8	
GTA	2.5	313	PN	21 42 30.0	− 1.8		
			PG	21 42 33.0	− 1.9		
			SG	21 43 05.0	− 2.9		
			SmN	ML=3.7	0.4	0.4	
			SmE		0.4	0.5	
BTO	6.8	62	EPG	21 43 48.0	− 4.2		
1984 4 2							
O=22 41 53.5			+/− 0.06 SEC				
LAT=44.71 N			+/− 2.47 KM				
LONG=149.78 E			+/− 1.45 KM				
DEPTH=36 KM			+/− 0.66 KM				
Ms(CHINA)=4.6/16, Msz(NEIS)=4.8, mb(NEIS)=5.3							
STATIONS USED=63, STAND DEV=1.14 SEC							
MDJ	14.4	276	EP	22 45 17.7	1.1		
			PP	22 45 28.0	− 0.2		
			ES	22 47 58.0	2.2		
			SS	22 48 14.0	2.0		
CN2	17.4	275	PD	22 45 55.5	− 0.4		
			ES	22 49 06.0	− 1.2		
			LE	Ms=4.6		13.0	1.9
SNY	19.3	270	EP	22 46 16.0	− 2.1		
			AP	22 46 24.0	− 2.4		
			S	22 49 45.0	− 3.2		
			XS	22 50 03.0	2.0		
			LN	Ms=4.5		20.0	1.1
			LE			20.0	1.8
DL2	21.7	264	EP	22 46 42.0	− 1.6		
			S	22 50 33.5	− 3.4		
			LN	Ms=4.5		20.0	1.2
			LE			20.0	1.2
BJI	25.1	271	EP	22 47 16.0	− 1.2		
			ES	22 51 39.0	1.6		
			LE	Ms=4.4		16.5	0.9
TIA	26.1	262	PC	22 47 25.7	− 0.7		
			ES	22 51 46.0	− 7.5		
			LN	Ms=4.5		15.0	0.7
			LE			16.0	0.9
SSE	26.2	248	EP	22 47 27.0	0.1		
			XS	22 52 10.0	− 0.6		
			LE	Ms=4.6		16.0	1.5
NJ2	27.2	252	PD	22 47 35.6	− 0.4		
			ES	22 52 12.0	1.5		
			LE	Ms=4.7		18.0	2.0
HHC	28.1	275	P	22 47 45.0	0.1		
			ES	22 52 32.0	5.5		
			LE	Ms=4.7		16.0	1.5
TIY	28.8	269	EP	22 47 50.0	− 0.4		
			XS	22 52 55.0	2.4		
			LE	Ms=4.8		20.0	2.5
BTO	29.3	276	EP	22 47 54.8	− 0.7		
			ES	22 52 55.0	9.6		
			LN	Ms=4.8		17.0	1.2
			LE			17.0	1.4
WHN	31.2	255	EP	22 48 10.9	− 0.7		
XAN	33.0	265	EP	22 48 26.4	− 1.6		
			LE			12.0	0.5
LZH	35.6	272	IPC	22 48 50.5	0.0		
			PmZ			1.5	0.2
CD2	38.4	265	PC	22 49 13.6	0.1		
			(S)	22 55 05.0	− 0.9		
GYA	39.0	256	EP	22 49 18.2	− 0.4		
			S	22 55 11.0	− 4.2		
KMI	42.6	258	PC	22 49 48.0	− 0.3		
			AP	22 49 59.0	0.9		
			XP	22 50 02.0	− 0.5		
			ES	22 56 07.0	− 1.6		
WMQ	43.5	291	PD	22 49 56.0	0.2		
			ES	22 56 24.0	2.0		
			LN	Ms=5.2		16.0	2.3
LSA	48.0	272	P	22 50 33.0	0.7		
1984 4 3							
O=00 29 27.6			+/− 0.09 SEC				
LAT=2.82 S			+/− 1.46 KM				
LONG=141.38 E			+/− 1.64 KM				
DEPTH=26 KM			+/− 0.18 KM				
Ms(CHINA)=4.7/2, mb(NEIS)=5.0							
STATIONS USED=31, STAND DEV=1.57 SEC							

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
NJ2	40.7	330	EP	00 37 10.6	2.1		
			ES	00 43 20.0	2.3		
TIA	45.0	331	EP	00 37 42.8	0.0		
			ES	00 44 18.5	− 0.8		
			ESS	00 47 36.2	4.0		
			LN	Ms=4.7		14.0	0.6
SNY	47.3	341	EP	00 38 01.2	− 0.1		
			S	00 44 55.0	2.4		
			LN	Ms=4.7		16.0	0.6
			LE			16.0	0.5
XAN	47.7	322	EP	00 38 05.3	0.5		
			S	00 45 01.5	2.5		
CN2	48.6	344	P	00 38 10.6	− 0.7		
CD2	49.1	316	EP	00 38 17.0	1.7		
			S	00 45 20.0	2.0		
GTA	56.8	322	PD	00 39 13.2	0.6		
LSA	57.9	307	EP	00 39 22.1	1.4		
WMQ	66.8	320	PD	00 40 19.8	0.1		

1984 4 3

O=03 09 44.5 +/− 0.22 SEC

LAT=14.20 S +/− 2.63 KM

LONG=167.24 E +/− 4.05 KM

DEPTH=163 KM +/− 1.69 KM

mb(NEIS)=5.5

STATIONS USED=79, STAND DEV=2.69 SEC

SSE	63.1	316	EP	03 19 57.9	0.2		
GZH	64.5	304	PC	03 20 07.2	0.9		
NJ2	65.3	315	PC	03 20 11.6	− 0.1		
			AP	03 20 49.2	− 0.6		
QZN	65.5	298	IPD	03 20 14.8	1.9		
WHN	67.6	311	EP	03 20 26.0	− 0.2		
MDJ	67.8	331	IPC	03 20 28.0	0.4		
			PmZ			3.0	0.4
			PCP	03 20 52.6	0.3		
			AP	03 21 09.7	3.7		
			XP	03 21 28.0	4.2		
			ES	03 29 12.0	0.7		
			SCS	03 30 06.0	0.0		
DL2	67.9	322	PU	03 20 28.0	0.0		
			PmZ			3.0	0.4
			EPCS	03 25 02.0	6.3		
			ES	03 29 11.0	− 1.0		
SNY	68.8	326	EP	03 20 33.0	− 0.4		
TIA	68.9	318	IPC	03 20 34.2	− 0.3		
			LN			11.0	0.4
			LE			10.0	0.4
CN2	69.2	328	IPC	03 20 36.0	− 0.1		
			AP	03 21 17.0	2.5		
			ES	03 29 27.0	− 0.6		
GYA	71.4	304	PU	03 20 50.0	0.4		
			XP	03 21 47.0	1.1		
			S	03 29 56.0	2.5		
			XS	03 31 04.0	3.3		
BJI	71.8	321	EP	03 20 52.0	0.0		
TIY	72.9	317	PU	03 20 59.0	0.8		
			PmZ			1.2	0.09
			AP	03 21 36.0	− 0.8		
			ES	03 30 11.0	1.0		
			SmN			7.0	0.3
XAN	73.3	312	IPC	03 21 01.0	0.2		
			AP	03 21 38.5	− 1.1		
			XP	03 21 54.5	− 2.8		
			PP	03 23 52.0	4.3		
			S	03 30 14.5	− 0.6		
			XS	03 31 22.0	− 0.9		
KMI	74.0	301	PC	03 21 06.0	1.0		
			PmZ			1.0	0.2
			AP	03 21 45.0	1.3		
			ES	03 30 27.0	3.8		
HHC	75.2	319	PU	03 21 12.5	1.0		
			AP	03 21 54.0	3.5		
			IS	03 30 42.0	6.2		
CD2	75.7	307	PU	03 21 15.0	0.7		
			AP	03 21 55.0	1.7		
			ES	03 30 43.7	2.5		
BTO	76.0	318	EP	03 21 16.5	0.2		
			AP	03 21 55.0	− 0.3		
LZH	77.9	312	IPC	03 21 28.5	1.4		
			PmZ			2.0	0.2
			AP	03 22 06.5	0.4		
			S	03 31 11.0	4.9		
GTA	82.3	313	IPC	03 21 51.4	1.3		
			AP	03 22 30.4	0.8		
LSA	85.3	302	P	03 22 06.5	1.1		
WMQ	92.3	314	PC	03 22 38.5	− 0.1		
			PmZ			2.0	0.1
			SKS	03 32 55.5	2.0		

1984 4 3

O=07 36 04.2 +/− 0.71 SEC

LAT=24.18 N +/− 3.34 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LONG=122.90 E	**+/− 7.13 KM**			
			DEPTH=16 KM	**+/− 0.49 KM**			
			ML(CHINA)=3.5/5				
			STATIONS USED=14, STAND DEV=4.04 SEC				
QZH	4.0	281	IPN	07 37 03.7	− 2.6		
			S_mN	ML=3.2		0.2	0.06
			S_mE			0.3	0.05
SSE	7.1	347	PN	07 37 52.2	2.6		
			P_mN			0.5	0.03
			P_mE			0.5	0.04
GZH	8.8	264	EP	07 38 14.0	− 0.3		
			1984 4 3				
			O=18 31 01.1	**+/− 0.05 SEC**			
			LAT=55.67 S	**+/− 0.86 KM**			
			LONG=146.72 E	**+/− 1.27 KM**			
			DEPTH=25 KM	**+/− 0.21 KM**			
			mb(NEIS)=5.1				
			STATIONS USED=16, STAND DEV=0.88 SEC				
GYA	88.6	324	EP	18 43 54.8	0.4		
KMI	88.8	320	EP	18 43 56.0	1.0		
CD_2	93.7	324	EP	18 44 18.2	0.4		
			1984 4 3				
			O=18 59 02.0	**+/− 0.46 SEC**			
			LAT=24.31 N	**+/− 4.90 KM**			
			LONG=121.59 E	**+/− 4.37 KM**			
			DEPTH=2 KM	**+/− 2.13 KM**			
			Ms(CHINA)=4.0/7, ML(CHINA)=4.0/7				
			STATIONS USED=19, STAND DEV=2.43 SEC				
QZH	2.8	283	PN	18 59 49.5	0.9		
			SN	19 00 22.5	− 0.8		
			S_mN	ML=3.8		1.2	0.6
			S_mE			1.2	0.4
			LN	Ms=3.7		9.0	0.9
			LE			9.0	1.7
SSE	6.8	357	EPN	19 00 44.1	− 0.7		
GZH	7.7	262	EPN	19 00 55.5	− 1.7		
			SN	19 00 19.5	− 6.0		
			LN	Ms=4.1		7.0	0.5
			LE			8.0	0.9
NJ2	8.1	343	EP	19 01 02.6	− 0.6		
			ES	19 02 38.4	2.2		
			LN	Ms=4.0		8.0	1.0
XAN	14.7	314	EP	19 02 35.2	2.1		
			LG_2	19 07 09.2	2.3		
			LE	Ms=4.1		9.5	0.6
CD_2	17.1	296	EP	19 03 07.2	3.1		
			LE	Ms=4.3		6.5	0.6
LZH	19.3	311	EP	19 03 29.0	− 1.9		
CN_2	19.7	8	EP	19 03 36.5	1.0		
			1984 4 3				
			O=20 23 11.4	**+/− 0.15 SEC**			
			LAT=1.51 N	**+/− 1.52 KM**			
			LONG=126.93 E	**+/− 1.99 KM**			
			DEPTH=102 KM	**+/− 1.18 KM**			
			mb(NEIS)=5.3				
			STATIONS USED=65, STAND DEV=1.57 SEC				
QZN	24.2	317	EP	20 28 19.8	0.4		
			ES	20 32 32.0	4.6		
QZH	24.7	341	EP	20 28 23.0	− 1.1		
			S	20 32 42.0	6.4		
GZH	25.2	329	P	20 28 28.5	− 0.7		
			S	20 32 57.0	12.5		
			S_mN			5.0	1.0
			S_mE			4.0	0.7
SSE	29.9	350	EP	20 29 10.0	− 2.2		
			S	20 34 06.0	4.9		
NJ2	31.3	346	PD	20 29 24.6	0.1		
			S	20 34 29.0	5.9		
			S_mN			6.5	0.4
GYA	31.5	323	EP	20 29 26.4	− 0.2		
			PCP	20 32 18.0	1.6		
			S	20 34 28.0	1.1		
KMI	33.1	317	EP	20 29 41.0	0.7		
			ES	20 34 56.5	5.1		
			S_mN			5.0	0.3
TIA	35.7	346	PD	20 30 02.0	− 0.3		
			PCP	20 32 29.2	1.1		
			S	20 35 33.5	2.4		
			S_mN			9.5	0.5
XAN	36.5	334	P	20 30 07.8	− 1.1		
CD_2	36.6	325	EP	20 30 09.4	− 0.1		
DL_2	37.5	353	EP	20 30 17.5	− 0.1		
TIY	38.4	341	EP	20 30 25.5	0.5		
BJI	39.6	347	IPU	20 30 35.0	0.4		
SNY	40.3	356	EP	20 30 39.8	− 0.3		
			ES	20 36 46.0	6.2		
LZH	40.5	330	EP	20 30 43.5	1.0		
BTO	41.8	340	EP	20 30 53.2	0.0		
CN_2	42.1	358	PC	20 30 54.6	− 1.0		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	43.0	2	EP	20 31 02.5	− 0.1		
LSA	44.1	312	P	20 31 12.4	0.6		
GTA	45.1	330	P	20 31 20.4	0.6		
WMQ	54.7	325	PD	20 32 32.8	0.2		
			P$_m$Z			1.5	0.1
			PP	20 34 43.2	5.7		
			S	20 40 08.5	5.2		
			S$_m$N			4.0	0.2
KSH	59.7	316	P	20 33 10.0	1.6		
			ES	20 41 15.9	5.8		

1984 4 4

O=02 31 55.2 +/− 0.62 SEC
LAT=23.70 N +/− 2.68 KM
LONG=100.63 E +/− 2.54 KM
DEPTH=3 KM +/− 10.71 KM
Ms(CHINA)=4.5/8, mb(NEIS)=4.6, ML(CHINA)=4.7/5
STATIONS USED=29, STAND DEV=4.88 SEC

KMI	2.4	53	PNC	02 32 38.0	1.8		
			PG	02 32 42.5	3.7		
			SN	02 33 10.0	3.4		
			SG	02 33 15.0	4.9		
			S$_m$N	ML=4.6		0.5	3.4
			S$_m$E			0.5	3.3
			LN	Ms=4.9		6.0	17.4
			LE			6.0	12.0
GYA	6.1	62	PN	02 33 28.2	− 0.8		
			SN	02 34 42.0	1.3		
			LN	Ms=4.4		7.0	2.1
			LE			7.0	1.3
CD$_2$	7.7	20	EPN	02 33 50.0	− 1.1		
			EPG	02 34 21.0	5.4		
			SG	02 35 57.5	1.0		
			S$_m$N	ML=5.5		3.0	2.0
			S$_m$E			3.0	1.4
QZN	9.8	316	EP	02 34 18.0	− 1.7		
			ES	02 36 15.0	3.8		
LSA	10.4	307	EP	02 34 29.5	1.0		
GZH	11.7	90	E(P)	02 34 51.0	4.8		
			LN			1.2	0.1
			LE			1.0	0.04
GTA	15.7	357	EP	02 35 36.0	− 3.1		
TIY	17.2	33	E(P)	02 36 01.8	2.8		
			LN	Ms=4.6		11.0	1.3
			LE			11.0	1.1
BTO	18.6	22	EP	02 36 13.2	− 2.8		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIA	18.9	45	EP	02 36 23.5	3.7		
			LN	Ms=4.5		14.0	0.8
			LE			16.0	1.6
WMQ	22.7	335	EP	02 37 00.8	1.0		

1984 4 4

O=05 30 58.5 +/− 0.13 SEC
LAT=21.36 S +/− 0.82 KM
LONG=179.20 W +/− 1.36 KM
DEPTH=607 KM +/− 2.12 KM
mb(NEIS)=5.1
STATIONS USED=35, STAND DEV=1.10 SEC

GZH	79.2	300	P	05 42 04.0	0.4		
NJ2	79.6	310	PD	05 42 06.4	0.3		
MDJ	80.6	325	EP	05 42 11.0	0.1		
CN2	82.3	323	IPD	05 42 19.6	0.0		
TIA	83.0	313	P	05 42 24.9	0.7		
BJI	85.7	315	(P)	05 42 36.0	− 0.4		
GYA	86.1	300	P	05 42 40.0	1.6		
TIY	87.0	312	EP	05 42 43.0	0.4		
XAN	87.8	307	P	05 42 46.5	0.4		

1984 4 4

O=09 16 52.9 +/− 0.35 SEC
LAT=16.31 N +/− 4.24 KM
LONG=120.43 E +/− 4.71 KM
DEPTH=2 KM +/− 1.91 KM
STATIONS USED=8, STAND DEV=4.27 SEC

QZH	8.8	348	EP	09 19 02.7	− 0.9		
XAN	20.5	331	EP	09 21 27.4	2.5		
CD2	21.0	316	EP	09 21 44.6	3.7		

1984 4 4

O=14 20 24.7 +/− 0.05 SEC
LAT=24.93 N +/− 0.21 KM
LONG=97.76 E +/− 0.30 KM
DEPTH=33 KM +/− 0.06 KM
ML(CHINA)=3.3/3
STATIONS USED=4, STAND DEV=2.78 SEC

KMI	4.5	86	EP	14 21 51.0	18.7		
			I	14 22 49.0			
			S$_m$N	ML=3.6		1.5	0.09
CD2	8.0	40	(P)	14 22 24.4	3.1		

1984 4 5

O=00 12 51.8 +/− 0.10 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=23.47 S			+/− 2.16 KM				
LONG=174.70 W			+/− 1.36 KM				
DEPTH=25 KM			+/− 0.58 KM				
STATIONS USED=8, STAND DEV=1.56 SEC							
MDJ	84.7	323	EP	00 25 27.0	1.2		
CN2	86.5	321	PD	00 25 35.2	0.5		
XAN	92.4	306	EP	00 26 03.4	1.0		
1984 4 5							
O=00 58 57.9			+/− 0.34 SEC				
LAT=2.78 S			+/− 17.19 KM				
LONG=128.54 E			+/− 9.50 KM				
DEPTH=4 KM			+/− 6.67 KM				
mb(NEIS)=4.8							
STATIONS USED=8, STAND DEV=2.32 SEC							
GYA	35.9	325	EP	01 06 05.4	3.3		
XAN	41.0	334	EP	01 06 43.8	− 0.6		
BJI	44.1	346	(P)	01 07 10.0	0.5		
MDJ	47.2	1	EP	01 07 36.5	2.4		
WMQ	59.1	326	EP	01 09 00.0	− 2.5		
1984 4 5							
O=03 01 32.6			+/− 0.18 SEC				
LAT=6.95 S			+/− 4.56 KM				
LONG=72.32 E			+/− 3.24 KM				
DEPTH=11 KM			+/− 0.54 KM				
Ms(CHINA)=5.2/13, Msz(NEIS)=5.3, mb(NEIS)=5.4							
STATIONS USED=58, STAND DEV=2.09 SEC							
LSA	40.7	25	PR	03 09 17.5	1.9		
			ES	03 15 22.4	− 3.8		
			LN	Ms=5.0		17.0	1.6
			LE			15.0	1.0
KMI	43.5	41	EP	03 09 40.0	1.5		
			ES	03 16 10.0	2.6		
			LN	Ms=5.1		18.0	2.1
KSH	46.3	3	IPR	03 10 01.0	0.3		
			S	03 16 45.0	− 2.3		
			LE	Ms=5.6		12.0	4.0
GYA	47.0	43	PR	03 10 07.0	0.4		
			S	03 16 58.0	0.1		
CD2	48.2	36	PD	03 10 16.0	0.4		
			PmZ			1.0	0.1
			EPP	03 12 10.0	3.5		
			ES	03 17 13.0	− 1.2		
			LE	Ms=5.0		15.0	1.3
LZH	52.0	32	IPD	03 10 45.0	− 0.2		
			PmZ			2.5	0.3
WMQ	52.4	14	IPD	03 10 48.0	0.2		
			PmZ			2.5	0.6
			ES	03 18 12.0	− 0.8		
			LN	Ms=5.6		16.0	3.5
			LE			14.0	1.8
GTA	52.7	26	IPD	03 10 50.0	0.1		
			ES	03 18 15.5	− 1.0		
			LN	Ms=5.1		12.5	0.8
			LE			14.0	1.0
XAN	53.5	38	EP	03 10 53.8	− 2.1		
			ES	03 18 23.0	− 4.4		
TIY	58.1	37	EP	03 11 28.0	− 0.8		
			XS	03 19 40.0	2.1		
			LN	Ms=5.5		18.0	2.4
			LE			18.0	1.8
BTO	58.6	33	EP	03 11 32.4	− 0.6		
			ES	03 19 37.0	0.8		
NJ2	58.9	46	PC	03 11 34.1	− 0.5		
TIA	60.1	41	PD	03 11 41.6	− 1.1		
			ES	03 19 52.0	− 2.3		
			LE	Ms=5.2		17.0	1.5
SSE	60.1	48	EP	03 11 42.2	− 0.7		
BJI	61.8	37	EP	03 11 54.0	− 0.4		
			PmZ			4.5	0.4
			LN	Ms=5.1		13.0	0.8
SNY	67.4	39	EP	03 12 29.8	− 0.9		
			ES	03 21 24.5	− 0.9		
			XS	03 21 34.0	− 1.1		
			LN	Ms=5.2		20.0	1.1
			LE			21.0	0.8
CN2	69.6	38	PD	03 12 43.5	− 1.1		
			ES	03 21 44.0	− 7.9		
			LE	Ms=5.2		17.0	1.3
1984 4 5							
O=06 24 55.0			+/− 0.10 SEC				
LAT=14.93 S			+/− 1.19 KM				
LONG=166.74 E			+/− 1.84 KM				
DEPTH=40 KM			+/− 0.66 KM				
mb(NEIS)=5.2							
STATIONS USED=35, STAND DEV=1.59 SEC							
MDJ	68.2	332	EP	06 35 53.5	− 0.7		
TIA	69.1	318	EP	06 35 57.6	− 2.4		
CN2	69.6	329	EP	06 36 01.5	− 1.0		
GYA	71.4	304	P	06 36 14.4	0.5		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIY	73.1	317	EP	06 36 24.0	0.3		
XAN	73.4	312	EP	06 36 25.3	− 0.6		
CD2	75.7	307	EP	06 36 40.0	0.9		
LZH	78.1	312	P	06 36 53.5	1.1		
GTA	82.4	314	P	06 37 16.5	0.9		

1984 4 5
O=08 32 33.7 +/− 0.15 SEC
LAT=53.89 N +/− 3.13 KM
LONG=162.04 E +/− 1.80 KM
DEPTH=44 KM +/− 2.08 KM
mb(NEIS)=4.8
STATIONS USED=19, STAND DEV=2.62 SEC

CN2	25.8	262	EP	08 38 00.0	− 3.2
GTA	43.7	276	EP	08 40 34.0	− 2.6
CD2	47.2	265	(P)	08 41 03.4	− 1.2

1984 4 5
O=11 49 39.0 +/− 0.06 SEC
LAT=76.67 N +/− 0.86 KM
LONG=6.58 E +/− 1.01 KM
DEPTH=11 KM +/− 0.14 KM
mb(NEIS)=4.6
STATIONS USED=13, STAND DEV=1.01 SEC

GTA	52.8	76	EP	11 58 56.0	− 1.1
BJI	55.7	61	P	11 59 20.0	1.7

1984 4 5
O=17 40 19.2 +/− 0.09 SEC
LAT=14.62 S +/− 0.82 KM
LONG=167.43 E +/− 2.08 KM
DEPTH=27 KM +/− 0.27 KM
STATIONS USED=10, STAND DEV=1.41 SEC

MDJ	68.3	331	EP	17 51 21.3	1.0
CN2	69.6	328	PC	17 51 29.6	0.8
KMI	74.4	301	EP	17 51 58.0	0.7

1984 4 5
O=20 04 54.5 +/− 0.19 SEC
LAT=6.08 S +/− 2.51 KM
LONG=149.47 E +/− 3.96 KM
DEPTH=74 KM +/− 1.50 KM
mb(NEIS)=5.2
STATIONS USED=58, STAND DEV=2.77 SEC

SSE	45.8	325	EP	20 13 11.5	0.4
			XS	20 20 20.0	0.1
			LN		24.0 1.0
			LE		24.0 1.3
QZN	46.3	303	P	20 13 18.2	3.0
NJ2	47.8	324	EP	20 13 27.6	0.5
			AP	20 13 40.6	− 4.6
			ES	20 20 21.0	3.3
WHN	49.6	319	EP	20 13 40.0	− 0.4
DL2	51.7	332	EP	20 13 59.0	2.6
			LN		21.0 1.4
TIA	51.9	326	PC	20 13 57.3	− 0.6
			ES	20 21 18.0	4.4
			LN		21.0 2.1
			LE		20.0 1.8
SNY	53.2	335	EP	20 14 07.2	− 0.8
			ES	20 21 32.0	− 0.1
MDJ	53.5	342	EP	20 14 10.0	− 0.4
			ES	20 21 40.0	3.6
			SmE		20.0 1.2
CN2	54.2	338	EP	20 14 14.6	− 0.5
KMI	55.0	306	EP	20 14 20.0	− 1.3
			ES	20 21 50.0	− 6.6
			SmN		8.0 0.3
BJI	55.2	329	EP	20 14 21.5	− 1.0
XAN	55.3	318	P	20 14 20.4	− 3.1
TIY	55.6	324	EP	20 14 24.6	− 0.6
CD2	57.1	312	EP	20 14 38.2	2.0
HHC	58.2	326	EP	20 14 43.8	− 0.3
BTO	58.9	325	EP	20 14 47.4	− 1.4
LZH	59.9	317	EP	20 14 54.0	− 1.7
GTA	64.4	319	P	20 15 23.6	− 2.1
LSA	66.3	306	EP	20 15 35.3	− 2.8
WMQ	74.5	318	P	20 16 27.1	− 0.3

1984 4 6
O=00 25 15.1 +/− 0.08 SEC
LAT=20.97 S +/− 1.29 KM
LONG=175.65 W +/− 1.62 KM
DEPTH=120 KM +/− 0.26 KM
mb(NEIS)=5.3
STATIONS USED=31, STAND DEV=0.93 SEC

SSE	79.7	308	P	00 37 11.5	− 0.1
NJ2	81.9	308	PD	00 37 23.6	0.3
MDJ	82.2	323	PC	00 37 26.5	1.7
CN2	84.0	321	P	00 37 34.0	− 0.1
GYA	88.8	298	P	00 37 58.6	1.1
XAN	90.2	306	PD	00 38 04.3	0.4

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STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
KMI	91.5	296	PD	00 38 11.5	1.1		
1984 4 6							
O=01 09 02.4			+/-	0.08 SEC			
LAT=35.04 N			+/-	1.52 KM			
LONG=138.54 E			+/-	1.29 KM			
DEPTH=194 KM			+/-	0.74 KM			
mb(NEIS)=5.1							
STATIONS USED=74, STAND DEV=1.46 SEC							
MDJ	11.8	327	PD	01 11 46.0	0.3		
			XP	01 12 32.0	- 0.9		
			S	01 13 49.0	- 5.0		
CN2	13.4	314	PD	01 12 05.0	- 0.9		
			PmE			5.0	0.8
			PmZ			5.0	1.4
			XP	01 12 53.0	- 1.6		
			ES	01 14 30.0	- 0.6		
			LN			11.0	1.3
SNY	13.5	304	IPD	01 12 09.0	1.0		
			PmZ			5.5	2.2
			XP	01 12 58.0	1.1		
			S	01 14 35.0	0.6		
			SmN			5.0	1.2
			LE			11.0	1.0
DL2	14.1	290	IPD	01 12 16.2	1.6		
			PmN			5.0	0.7
			PmE			5.0	2.7
			PmZ			5.0	2.3
			XP	01 13 02.0	- 1.9		
			S	01 14 51.0	4.7		
			SmN			6.0	1.0
			SmE			6.0	0.8
			LN			10.0	1.1
SSE	15.1	259	P	01 12 29.0	1.9		
			ES	01 15 10.0	1.0		
			LE			12.0	1.1
NI2	16.7	265	PD	01 12 48.0	1.4		
			PmZ			6.0	0.7
			S	01 15 53.0	8.1		
			SCP	01 20 42.0	2.7		
TIA	17.5	280	EP	01 12 54.0	- 1.4		
			PmE			6.2	0.7
			PmZ			6.2	1.4
			ES	01 16 05.5	4.0		
			PCP	01 17 21.0	- 4.7		
			LN			11.5	1.4
			LE			11.0	0.8
BJI	18.4	292	EP	01 13 02.5	- 3.1		
			ES	01 16 22.0	1.0		
			SmN			5.5	0.6
			SmE			5.5	0.4
			LE			13.5	0.6
WHN	20.8	264	EP	01 13 31.0	1.0		
TIY	21.2	284	EP	01 13 31.8	- 1.9		
			S	01 17 19.0	6.3		
			SmN			7.0	0.8
			LE			12.0	0.7
BTO	23.2	292	EP	01 13 51.2	- 1.8		
			ES	01 17 43.0	- 4.1		
			LN			11.0	0.7
			LE			11.0	0.6
XAN	24.4	276	PC	01 14 04.0	- 0.6		
			AP	01 14 42.0	0.0		
			XP	01 15 04.5	- 0.7		
			ES	01 18 03.0	- 4.6		
			SS	01 19 18.0	- 7.9		
			LE			12.0	0.7
LZH	28.2	282	P	01 14 38.0	- 1.3		
			PmZ			2.2	0.1
GYA	28.6	261	PC	01 14 42.0	- 1.2		
			AP	01 15 19.0	- 3.1		
			S	01 19 12.0	- 4.3		
			LN			8.0	1.2
CD2	29.4	271	IPC	01 14 49.0	- 1.0		
GTA	31.0	289	P	01 15 03.7	- 0.5		
			XP	01 16 04.1	- 2.1		
			ES	01 19 52.0	- 1.8		
			SCS	01 25 15.2	1.4		
			LE			11.5	0.4
KMI	32.4	262	PD	01 15 15.5	- 0.8		
			AP	01 15 54.5	- 1.5		
			ES	01 20 09.0	- 6.5		
			SmN			10.0	0.3
			LN			11.0	0.6
WMQ	39.7	298	IPD	01 16 19.2	1.3		
			PmZ			2.0	0.6
			SCP	01 21 51.5	2.3		
			IS	01 22 08.0	1.0		
			SmN			5.0	1.0
			SCS	01 26 03.0	1.7		
			LN			9.0	0.4
LSA	40.1	276	P	01 16 22.1	0.7		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
KSH	49.1	294	PR	01 17 34.0	1.2		
			ES	01 24 28.0	5.7		
1984 4 5							
O=02 54 55.9			+/-	0.13 SEC			
LAT=18.41 N			+/-	2.53 KM			
LONG=121.49 E			+/-	2.97 KM			
DEPTH=92 KM			+/-	3.26 KM			
mb(NEIS)=5.0, ML(CHINA)=5.4 /7							
STATIONS USED=58, STAND DEV=2.65 SEC							
QZH	7.0	338	EP	02 56 37.0	- 1.1		
			S	02 57 51.5	- 5.7		
			S_mN	ML=5.3		0.8	1.1
			S_mE			0.8	1.8
			LE			12.0	2.1
GZH	8.9	302	PC	02 57 04.0	0.2		
			IS	02 58 33.8	- 9.7		
			LN			14.0	4.9
			LE			13.0	3.6
QZN	11.0	275	EP	02 57 29.8	- 2.7		
			ES	02 59 28.0	- 6.8		
SSE	12.6	358	EP	02 57 55.0	1.4		
			LN			12.0	1.1
NJ2	13.8	350	PD	02 58 09.2	0.6		
			S	03 00 38.0	- 2.0		
			LE			10.0	0.9
GYA	15.9	302	P	02 58 35.0	- 0.3		
			XP	02 59 02.0	- 0.4		
			S	03 01 35.0	6.5		
			LN			8.0	1.2
TIA	18.1	348	PD	02 59 02.9	- 0.4		
			P_mN			7.0	1.2
			P_mE			7.0	0.7
			P_mZ			4.0	1.6
			XP	02 59 29.5	- 1.9		
			S	03 02 26.0	6.5		
			S_mN			9.0	1.5
			S_mE			11.0	2.0
KMI	18.6	294	PD	02 59 08.5	- 0.7		
			AP	02 59 23.0	- 1.5		
			PP	02 59 30.0	1.9		
			XP	02 59 39.0	1.5		
			ES	03 02 30.0	- 0.8		
			S_mN			8.0	1.2
			LN			14.0	1.8
XAN	19.2	326	PD	02 59 14.0	- 1.1		
			XP	02 59 44.0	- 0.2		
			S	03 02 45.0	2.7		
			S_mN			7.0	0.8
			S_mE			8.0	1.4
			XS	03 03 11.5	4.9		
			LE			11.0	0.9
CD2	20.3	311	IPD	02 59 26.0	- 1.0		
			P_mZ			1.2	0.3
			EXP	02 59 56.0	- 1.4		
			ES	03 03 06.5	1.6		
			LE			9.0	1.2
DL2	20.4	0	IPR	02 59 27.0	- 1.0		
			P_mZ			3.0	1.1
			ES	03 03 06.5	- 0.1		
			LN			12.0	0.8
TIY	20.8	339	PD	02 59 31.6	- 0.4		
			P_mZ			1.2	0.3
			XP	03 00 02.0	- 0.6		
			S	03 03 23.0	9.0		
			LN			11.0	0.9
BJI	22.0	349	EP	02 59 43.0	- 1.2		
			P_mZ			5.0	0.8
			EAP	03 00 02.0	- 1.7		
			EXP	03 00 12.0	- 3.3		
			ES	03 03 47.0	10.5		
SNY	23.4	3	IPD	02 59 56.2	- 1.3		
			P_mZ			2.0	1.1
			AP	03 00 15.5	- 1.9		
			PP	03 00 36.1	3.1		
			ES	03 04 05.0	4.5		
			LE			15.0	0.8
LZH	23.5	322	IPD	02 59 59.0	0.3		
			P_mZ			2.0	0.7
			S	03 04 15.5	12.8		
			S_mN			0.5	1.4
			S_mE			0.5	2.4
HHC	23.9	341	PD	03 00 03.3	0.7		
			XP	03 00 39.0	5.0		
			S	03 04 18.0	8.2		
BTO	24.2	338	IPR	03 00 04.5	- 0.9		
			AP	03 00 26.5	1.3		
			XP	03 00 40.0	3.3		
			ES	03 04 18.0	3.4		
CN2	25.5	6	P	03 00 16.0	- 1.8		
			ES	03 04 35.0	- 1.4		
			LN			11.0	0.6

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	27.0	12	EP	03 00 30.5	− 0.8		
GTA	28.1	322	P	03 00 40.1	− 1.5		
			S	03 05 15.5	− 3.2		
			SCP	03 07 23.0	− 1.3		
			LE			10.5	0.4
LSA	29.8	297	EP	03 00 56.2	− 0.9		
WMQ	38.0	319	IPD	03 02 06.0	− 1.2		
			P_mZ			2.0	0.2
			ES	03 07 47.0	− 5.7		
			S_mN			2.5	0.05
			SCP	03 07 54.5	− 4.0		
			ISCS	03 12 04.5	− 2.2		

1984 4 6
O=04 02 05.5 +/− 0.06 SEC
LAT=37.88 N +/− 0.95 KM
LONG=102.15 E +/− 0.96 KM
DEPTH=14 KM +/− 0.02 KM
mb(NEIS)=4.4, ML(CHINA)=4.6/7
STATIONS USED=22, STAND DEV=1.63 SEC

LZH	2.2	142	EPN	04 02 45.0	1.9		
			PG	04 02 47.0	0.5		
			SN	04 03 15.5	4.3		
			S_mN	ML=4.7		0.5	6.5
			S_mE			0.5	4.4
GTA	2.4	310	IPNC	04 02 47.1	2.1		
			PG	04 02 49.5	0.5		
			ISG	04 03 21.0	0.8		
			S_mN	ML=4.6		0.7	2.9
			S_mE			0.8	3.6
BTO	6.7	63	EP	04 03 46.5	0.5		
			LG_2	04 05 39.0	− 6.9		
XAN	6.7	122	PN	04 03 45.6	− 0.5		
			PG	04 04 06.8	− 0.8		
			SG	04 05 32.4	− 2.9		
			S_mN	ML=4.1		1.0	0.1
			S_mE			1.0	0.09
CD2	7.1	168	EPN	04 03 53.4	1.9		
HHC	7.9	64	PN	04 04 01.2	− 1.4		
			PG	04 04 26.4	− 2.6		
			SN	04 05 28.4	− 4.3		
			SG	04 06 10.0	− 2.0		
			S_mE	ML=4.6		0.6	0.2
GYA	12.0	160	EP	04 04 59.0	− 0.7		
WMQ	12.4	303	E(P)	04 05 07.0	1.6		
			LG_1	04 08 38.5	2.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN			1.5	0.08
			LE			1.5	0.08

1984 4 6
O=04 13 16.3 +/− 2.44 SEC
LAT=55.33 S +/− 23.77 KM
LONG=147.45 E +/− 15.00 KM
DEPTH=1 KM +/− 21.37 KM
Ms(CHINA)=5.6/3, Msz(NEIS)=6.0, mb(NEIS)=5.5
STATIONS USED=13, STAND DEV=1.55 SEC

QZN	80.7	324	P	04 25 33.5	0.2		
			S	04 35 44.0	3.0		
			S_mN			13.0	0.9
			S_mE			12.0	1.2
			SS	04 41 02.0	7.1		
			LN	Ms=5.6		16.0	0.9
			LE			20.0	2.4
GYA	68.6	324	P	04 26 13.0	− 0.4		
			SKS	04 36 44.0	3.7		
			S	04 37 11.0	11.3		
KMI	88.8	320	PC	04 26 14.0	− 0.2		
			SKS	04 36 47.0	5.8		
			ES	04 36 57.0	− 4.2		
			LN	Ms=5.8		18.0	3.1
SSE	89.0	337	PC	04 26 14.0	− 1.0		
			PP	04 29 46.0	0.1		
			SKS	04 36 34.0	− 8.5		
			S	04 36 58.0	− 4.7		
NJ2	90.4	336	EP	04 26 20.8	− 0.9		
			PP	04 30 00.0	2.8		
			SKS	04 36 52.0	0.7		
			S	04 37 14.0	− 1.9		
			S_mE			16.0	1.3
			SS	04 43 18.0	0.0		
			LN	Ms=5.7		17.5	2.7
CD2	93.7	323	EP	04 26 36.8	− 0.1		
			SKS	04 37 12.0	2.1		
			S	04 37 48.0	3.2		
TIA	94.8	335	EP	04 26 40.7	− 1.2		
			SKS	04 37 20.0	4.0		
			S_mN			11.0	1.0
			LN	Ms=5.7		18.5	2.4
XAN	94.9	328	EP	04 26 41.6	− 1.0		
			SKS	04 37 13.0	− 3.7		
			S	04 37 55.5	0.0		
			S_mN			10.0	0.8

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	98.7	336	P	04 26 59.0	− 0.5		
			LN	Ms=5.4		16.0	1.0
1984 4 6							
O=14 46 30.9			+/− 0.14 SEC				
LAT=40.36 N			+/− 2.34 KM				
LONG=63.23 E			+/− 1.33 KM				
DEPTH=33 KM			+/− 0.33 KM				
mb(NEIS)=4.8							
STATIONS USED=25, STAND DEV=2.08 SEC							
KSH	9.8	91	EP	14 48 56.0	2.6		
			LG_2	14 52 03.0	7.4		
WMQ	18.5	71	P	14 50 46.5	0.2		
			S	14 54 15.5	7.3		
			LG_2	14 56 35.0	− 5.3		
			LN			3.0	0.2
LSA	25.1	106	P	14 51 54.3	− 0.8		
GTA	28.0	79	P	14 52 20.9	− 0.2		
CN2	45.4	64	EP	14 54 50.0	1.8		
1984 4 6							
O=23 08 21.3			+/− 0.26 SEC				
LAT=18.94 S			+/− 1.36 KM				
LONG=168.96 E			+/− 2.27 KM				
DEPTH=178 KM			+/− 1.97 KM				
mb(NEIS)=5.7							
STATIONS USED=87, STAND DEV=1.56 SEC							
QZH	65.6	309	IPR	23 18 52.0	3.0		
			P_mN			5.0	0.7
			P_mE			5.0	0.7
			P_mZ			5.0	1.8
			AP	23 19 31.0	0.6		
			PP	23 21 21.0	3.5		
			PP_mN			9.0	1.0
			PP_mE			9.0	0.9
			PP_mZ			9.0	3.5
			IS	23 27 25.0	6.0		
			SS	23 31 43.5	6.8		
SSE	67.7	316	EP	23 19 03.5	1.6		
			AP	23 19 43.0	− 0.5		
			S	23 27 48.0	4.3		
			S_mN			14.0	11.4
			S_mE			14.0	4.8
			XS	23 28 52.0	− 4.3		
			LN			14.0	4.8
GZH	68.5	305	PD	23 19 05.0	− 2.0		
			AP	23 19 49.0	0.3		
			XP	23 20 08.0	− 0.1		
			IS	23 28 02.0	8.5		
			S_mN			13.0	12.5
			S_mE			12.0	3.1
			XS	23 29 03.0	1.8		
			SS	23 32 28.0	6.3		
			LN			24.0	20.2
			LE			18.0	4.9
QZN	69.2	299	P	23 19 11.6	0.3		
			AP	23 19 53.5	0.4		
			S	23 28 10.0	8.2		
			S_mN			14.0	6.2
			S_mE			11.0	1.7
			LN			19.0	3.8
			LE			16.0	3.9
NJ2	69.8	316	PD	23 19 14.2	− 0.8		
			AP	23 19 58.5	1.6		
			XP	23 20 20.0	3.8		
			IS	23 28 13.0	4.1		
			S_mN			12.5	11.2
			S_mE			13.0	6.8
DL2	72.6	323	P	23 19 31.2	− 0.6		
			AP	23 20 14.0	0.1		
			XP	23 20 28.5	− 4.6		
			S	23 28 40.0	− 1.1		
			S_mN			14.0	13.6
			S_mE			13.0	8.2
			LN			13.0	3.3
			LE			14.0	6.0
MDJ	72.7	331	EP	23 19 30.0	− 2.5		
			AP	23 20 14.0	− 0.6		
			XP	23 20 32.0	− 1.8		
			PP	23 22 21.0	2.8		
			IS	23 28 47.0	4.6		
			S_mE			14.0	13.1
			SCS	23 29 22.0	3.4		
TIA	73.5	318	PD	23 19 36.2	− 1.1		
			AP	23 20 19.0	− 0.4		
			S	23 28 56.0	4.5		
			LN			20.0	5.2
			LE			18.0	4.4
SNY	73.6	326	EP	23 19 36.5	− 1.0		
			P_mZ			5.0	1.1
			AP	23 20 18.0	− 1.7		
			XP	23 20 34.0	− 4.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T. sec	A μ
			IS	23 28 55.2	3.2		
			SmN			13.0	15.2
			SmE			14.0	8.3
CN2	74.1	328	IPD	23 19 39.0	− 1.3		
			PmZ			9.0	6.9
			AP	23 20 22.0	− 0.5		
			XP	23 20 41.0	− 0.6		
			ES	23 29 03.0	5.7		
			SmN			11.0	8.6
			XS	23 30 13.0	2.0		
GYA	75.4	304	PR	23 19 51.0	2.8		
			AP	23 20 31.0	0.6		
			S	23 29 19.0	6.3		
			SmN			9.0	5.9
BJI	76.5	321	EP	23 19 54.0	− 0.2		
			PmZ			6.5	0.8
			AP	23 20 38.0	1.3		
			XP	23 20 54.0	− 1.8		
			S	23 29 32.5	8.1		
			SmN			12.0	17.9
			SmE			14.5	6.7
			XS	23 30 39.0	0.4		
TIY	77.4	317	EP	23 19 59.0	− 0.3		
			AP	23 20 43.0	1.2		
			S	23 29 43.0	8.7		
			SmN			11.0	11.9
XAN	77.7	312	EP	23 20 00.0	− 0.8		
			PmZ			8.0	1.0
			AP	23 20 44.0	0.7		
			XP	23 21 02.0	− 0.4		
			IS	23 29 38.5	1.3		
			SmN			13.0	14.9
			SmE			14.0	3.6
			XS	23 30 54.0	2.6		
			LN			16.0	6.3
			LE			16.0	3.2
KMI	77.9	301	IPD	23 20 02.0	0.0		
			AP	23 20 47.0	2.7		
			IS	23 29 47.0	7.6		
			SmN			13.0	0.1
HHC	79.8	319	P	23 20 12.0	− 0.3		
			AP	23 20 58.0	3.1		
			SmN			10.0	3.3
CD2	79.8	307	IPC	23 20 12.7	0.4		
			AP	23 20 55.5	0.5		
			S	23 30 05.0	5.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T. sec	A μ
			SmN			10.0	17.8
			SKS	23 30 09.5	3.0		
			SS	23 35 21.0	6.9		
BTO	80.6	318	EP	23 20 19.0	2.4		
			AP	23 21 00.0	0.7		
			S	23 30 10.0	1.9		
LZH	82.3	312	PD	23 20 28.0	0.5		
			PmZ			1.5	0.08
			AP	23 21 10.0	1.7		
			SCS	23 30 34.0	− 2.4		
GTA	86.7	313	P	23 20 47.2	− 0.1		
			IAP	23 21 32.7	2.1		
			IS	23 31 01.8	− 6.6		
			SmE			12.0	9.1
			LE			14.5	2.5
LSA	89.1	301	EP	23 20 58.4	− 0.7		
			AP	23 21 43.8	1.6		
			SKS	23 31 15.6	7.1		
			S	23 31 30.6	− 0.9		
			SmE			10.0	4.2
WMQ	96.8	313	EP	23 21 33.5	− 0.5		

1984 4 7
O=06 20 53.1 +/− 0.11 SEC
LAT=22.62 N +/− 0.36 KM
LONG=100.70 E +/− 0.49 KM
DEPTH=0 KM +/− 1.23 KM
ML (CHINA)=3.9/3
STATIONS USED=8. STAND DEV=0.35 SEC

KMI	3.1	36	EPG	06 21 49.5	− 0.3	
			SG	06 22 30.5	− 0.1	
			SmN	ML=3.9	1.5	0.5
			SmE		1.5	0.4
GYA	6.6	53	PG	06 22 57.4	3.3	
CD2	8.7	17	E(P)	06 23 08.6	5.3	

1984 4 7
O=06 28 25.5 +/− 0.15 SEC
LAT=22.44 N +/− 1.85 KM
LONG=101.27 E +/− 1.56 KM
DEPTH=12 KM +/− 0.24 KM
Ms(CHINA)=4.5/17.mb(NEIS)=4.5.ML (CHINA)=5.0/2
STATIONS USED=39. STAND DEV=2.20 SEC

KMI	3.0	26	IPNC	06 29 15.0	0.9
			PG	06 29 24.5	4.5
			SN	06 29 52.5	1.8

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SG	06 30 07.0	7.8		
			SmN	ML=5.0		2.0	6.0
			SmE			2.0	5.3
			LE	Ms=4.9		8.0	23.1
GYA	6.3	49	PN	06 30 00.8	− 0.6		
			PG	06 30 28.0	7.0		
			SG	06 31 52.0	8.0		
			LN	Ms=5.1		7.0	10.4
			LE			7.0	6.6
QZN	8.7	111	EP	06 30 33.0	− 1.6		
			S	06 32 11.3	− 2.7		
			LN	Ms=4.6		8.0	2.2
			LE			8.0	2.2
CD2	8.7	14	EP	06 30 33.4	− 1.3		
			LG2	06 33 06.0	− 7.3		
			LE	Ms=5.1		9.0	11.4
GZH	11.2	84	EP	06 31 08.0	− 0.3		
			ES	06 33 25.0	10.6		
			LN	Ms=4.9		6.0	1.8
			LE			5.0	2.5
LSA	11.6	310	EP	06 31 14.5	− 0.4		
LZH	13.8	8	EP	06 31 43.5	− 0.1		
			LE	Ms=4.6		9.5	2.1
GTA	17.0	356	P	06 32 25.0	0.3		
			LE	Ms=4.2		12.5	0.9
TIA	19.4	41	EP	06 32 55.2	0.3		
			LN	Ms=4.7		11.0	1.3
			LE			11.0	1.6
BTO	19.6	20	EP	06 32 55.4	− 0.9		
			ES	06 36 30.0	− 1.3		
			LN	Ms=4.7		11.0	1.1
			LE			11.0	1.6
HHC	20.3	22	EP	06 33 04.4	− 0.2		
BJI	21.6	32	P	06 33 18.5	0.5		
			LE			11.5	1.1
WMQ	24.1	335	EP	06 33 42.0	− 0.4		
CN2	29.2	37	EP	06 34 30.0	0.4		

1984 4 7

O=12 32 10.2 +/− 0.22 SEC
LAT=56.11 N +/− 3.66 KM
LONG=163.05 E +/− 2.20 KM
DEPTH=34 KM +/− 0.60 KM
Ms(CHINA)=4.7/5.Msz(NEIS)=4.8,mb(NEIS)=5.1
STATIONS USED=46, STAND DEV=2.20 SEC

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	24.0	255	EP	12 37 22.6	− 0.3		
CN2	26.8	258	PU	12 37 45.4	− 3.9		
			ES	12 42 14.0	− 7.4		
			LN	Ms=4.6		14.0	1.2
HHC	36.5	267	EP	12 39 15.8	1.5		
TIA	36.6	256	EP	12 39 13.4	− 2.4		
			LN	Ms=4.9		15.0	1.1
			LE			13.0	0.9
BTO	37.5	268	EP	12 39 23.0	0.0		
			LN	Ms=4.9		13.0	0.7
			LE			13.0	1.0
XAN	42.8	262	EP	12 40 07.4	0.8		
GTA	44.0	275	P	12 40 16.1	− 0.7		
			LN	Ms=4.7		14.0	0.5
			LE			14.0	0.5
LZH	44.1	268	EP	12 40 18.5	0.9		
			PmZ			1.0	0.06
WMQ	47.6	288	IPC	12 40 44.5	− 0.9		
			PmZ			1.5	0.2
			ES	12 47 37.7	− 0.4		
CD2	48.0	264	EP	12 40 47.2	− 1.1		
GYA	49.8	257	EP	12 41 00.6	− 1.9		
LSA	56.0	273	EP	12 41 47.7	− 0.8		

1984 4 7

O=13 11 03.8 +/− 0.21 SEC
LAT=21.54 N +/− 1.84 KM
LONG=100.56 E +/− 2.80 KM
DEPTH=16 KM +/− 3.34 KM
Ms(CHINA)=3.7/1.ML(CHINA)=4.1/3
STATIONS USED=7, STAND DEV=4.51 SEC

KMI	4.1	28	EPN	13 12 09.0	1.8		
			SN	13 12 53.0	− 2.5		
			LN	Ms=3.7		8.0	0.9
GYA	7.4	47	EPG	13 13 17.4	2.5		
			SB	13 14 40.0	− 7.1		
			SmN	ML=4.1		1.2	0.07
			SmE			1.2	0.07
QZN	9.1	104	EP	13 13 19.0	2.2		
CD2	9.8	16	EP	13 13 22.0	− 4.5		

1984 4 7

O=13 36 14.2 +/− 0.22 SEC
LAT=11.61 S +/− 3.01 KM
LONG=165.70 E +/− 3.84 KM
DEPTH=45 KM +/− 1.49 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
Ms z(NEIS)=4.7, m b(NEIS)=5.4							
STATIONS USED=43, STAND DEV=2.87 SEC							
SSE	60.2	316	PD	13 46 20.0	−0.7		
NJ2	62.4	315	PD	13 46 35.5	0.2		
MDJ	64.8	332	EP	13 46 50.5	−0.8		
DL2	64.9	323	EP	13 46 51.5	−0.3		
TIA	66.0	318	EP	13 46 58.1	−0.8		
CN2	66.2	329	PC	13 46 58.4	−1.7		
GYA	68.7	304	P	13 47 16.8	0.9		
BJI	68.9	321	EP	13 47 16.0	−1.0		
TIY	69.9	317	EP	13 47 24.0	0.5		
XAN	70.5	312	EP	13 47 26.0	−0.7		
HHC	72.2	319	EP	13 47 37.0	−0.3		
CD2	72.9	307	EP	13 47 42.2	0.9		
BTO	73.1	318	EP	13 47 41.0	−1.4		
LZH	75.1	312	EP	13 47 55.0	0.8		
			P_mZ			1.5	0.1
GTA	79.4	313	PC	13 48 19.0	0.8		
LSA	82.6	302	EP	13 48 36.4	1.0		
WMQ	89.5	314	P	13 49 07.5	−1.1		
1984 4 7							
O=13 39 27.4		+/−	0.17 SEC				
LAT=11.83 S		+/−	1.82 KM				
LONG=165.87 E		+/−	2.32 KM				
DEPTH=37 KM		+/−	1.24 KM				
m b(NEIS)=5.1							
STATIONS USED=24, STAND DEV=2.02 SEC							
SSE	60.5	316	P	13 49 36.5	−0.2		
NJ2	62.7	315	PD	13 49 51.8	0.6		
TIA	66.3	318	EP	13 50 14.7	−0.1		
CN2	66.5	329	IPC	13 50 15.3	−0.7		
GYA	69.0	304	P	13 50 32.6	0.9		
BJI	69.2	321	EP	13 50 32.5	−0.3		
XAN	70.7	312	EP	13 50 42.8	0.3		
HHC	72.5	319	P	13 50 54.0	0.9		
CD2	73.2	307	EP	13 50 58.6	1.6		
WMQ	89.7	314	IPC	13 52 24.2	0.1		
1984 4 7							
O=13 53 24.9		+/−	0.07 SEC				
LAT=3.83 S		+/−	0.91 KM				
LONG=151.14 E		+/−	0.50 KM				
DEPTH=381 KM		+/−	0.70 KM				
m b(NEIS)=4.9							
STATIONS USED=49, STAND DEV=0.74 SEC							
SSE	45.0	322	PD	14 01 07.5	1.6		
NJ2	47.1	321	PD	14 01 23.0	0.9		
DL2	50.5	330	EP	14 01 48.1	−0.1		
TIA	51.0	324	PD	14 01 51.0	−0.6		
MDJ	51.9	340	IPD	14 01 58.5	−0.4		
GYA	52.5	307	P	14 02 04.0	1.0		
CN2	52.7	336	PD	14 02 03.7	−1.0		
BJI	54.2	327	EP	14 02 14.0	−1.0		
XAN	54.8	316	EP	14 02 18.8	−0.6		
CD2	56.9	310	IPD	14 02 34.2	0.3		
HHC	57.3	324	PD	14 02 37.2	0.2		
BTO	58.0	323	EP	14 02 42.0	−0.1		
LZH	59.4	316	PD	14 02 52.5	1.2		
			P_mZ			1.0	0.08
GTA	63.8	317	IPD	14 03 21.5	1.1		
			PCP	14 03 53.0	0.9		
WMQ	73.9	317	IPD	14 04 22.0	0.2		
1984 4 7							
O=14 16 21.1		+/−	0.10 SEC				
LAT=11.76 S		+/−	1.43 KM				
LONG=166.03 E		+/−	1.55 KM				
DEPTH=37 KM		+/−	0.45 KM				
m b(NEIS)=5.1							
STATIONS USED=19, STAND DEV=1.51 SEC							
NJ2	62.7	315	EP	14 26 44.8	−0.5		
CN2	66.5	329	P	14 27 08.0	−1.8		
BJI	69.2	321	EP	14 27 25.0	−1.7		
XAN	70.8	312	EP	14 27 36.0	−0.6		
CD2	73.3	307	EP	14 27 51.7	0.6		
LZH	75.4	312	EP	14 28 04.5	0.6		
			P_mZ			1.5	0.05
GTA	79.8	313	IPD	14 28 28.3	0.4		
WMQ	89.8	314	P	14 29 17.3	−0.8		
1984 4 7							
O=17 29 26.7		+/−	0.13 SEC				
LAT=20.04 S		+/−	1.15 KM				
LONG=176.08 W		+/−	1.10 KM				
DEPTH=260 KM		+/−	1.16 KM				
m b(NEIS)=4.7							
STATIONS USED=14, STAND DEV=1.31 SEC							
MDJ	81.2	324	EP	17 41 17.0	1.5		
CN2	83.0	321	EP	17 41 25.0	−0.1		
1984 4 7							

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
O=17 53 53.7 +/- 0.18 SEC							
LAT=46.49 N +/- 1.24 KM							
LONG=153.39 E +/- 1.62 KM							
DEPTH=184 KM +/- 0.98 KM							
STATIONS USED=7, STAND DEV=0.98 SEC							
CN2	19.9	272	(P)	17 58 06.0	- 6.5		
CD2	41.1	265	EP	18 01 22.6	1.5		
GYA	41.8	258	P	18 01 28.8	1.1		
1984 4 7							
O=19 03 39.7 +/- 0.17 SEC							
LAT=37.30 N +/- 1.82 KM							
LONG=114.96 E +/- 1.61 KM							
DEPTH=16 KM +/- 0.35 KM							
ML(THINA)=3.3/13							
STATIONS USED=18, STAND DEV=3.90 SEC							
TIA	2.1	121	PN	19 04 13.9	1.4		
			PG	19 04 16.6	0.3		
			SG	19 04 42.4	- 2.2		
			S_mN	ML=3.3	0.3	0.3	
			S_mE		0.3	0.3	
TIY	2.1	282	IPGD	19 04 16.0	- 0.3		
			SG	19 04 42.6	- 2.0		
			S_mN	ML=3.4	0.4	0.2	
			S_mE		0.4	0.4	
BJI	2.9	18	EPN	19 04 24.0	- 0.6		
			EPG	19 04 30.0	- 2.8		
			ESG	19 05 09.0	- 1.9		
			S_mN	ML=3.8	0.5	0.4	
			S_mE		0.5	0.4	
HHC	4.4	324	PG	19 05 00.0	2.1		
			SG	19 05 54.2	- 4.2		
			S_mN	ML=3.6	0.8	0.1	
			S_mE		0.6	0.08	
XAN	5.9	238	EPN	19 05 06.6	- 0.5		
			PG	19 05 27.4	0.1		
			SG	19 06 44.0	- 0.6		
GTA	12.1	284	EP	19 06 37.0	4.2		
			ELG_1	19 09 58.3	- 8.6		
			LN		1.1	0.01	
1984 4 7							
O=22 08 13.3 +/- 0.09 SEC							
LAT=43.40 N +/- 3.07 KM							
LONG=147.30 E +/- 1.29 KM							
DEPTH=53 KM +/- 1.83 KM							

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
mb(NEIS)=4.9							
STATIONS USED=30, STAND DEV=1.38 SEC							
CN2	15.8	278	EP	22 11 52.3	- 2.1		
DL2	19.8	265	EP	22 12 41.5	- 0.9		
BJI	23.4	272	P	22 13 17.5	- 0.9		
TIA	24.2	262	EP	22 13 28.2	2.2		
XAN	31.1	265	EP	22 14 27.0	- 2.6		
GTA	35.5	280	P	22 15 07.4	0.3		
			PCP	22 17 36.6	1.6		
CD2	36.5	264	EP	22 15 15.7	0.1		
GYA	36.9	256	EP	22 15 23.0	3.4		
WMQ	42.3	291	P	22 16 01.7	0.5		
1984 4 7							
O=23 49 53.2 +/- 0.18 SEC							
LAT=24.23 N +/- 0.84 KM							
LONG=122.11 E +/- 1.81 KM							
DEPTH=14 KM +/- 0.05 KM							
ML(CHINA)=3.5/5							
STATIONS USED=12, STAND DEV=1.32 SEC							
QZH	3.3	283	IPNC	23 50 45.6	0.1		
			SN	23 51 24.5	- 0.4		
			S_mN	ML=3.5	0.6	0.2	
			S_mE		0.6	0.1	
SSE	6.9	353	PN	23 51 34.0	- 2.4		
CD2	17.6	296	(P)	23 54 00.5	0.8		
1984 4 7							
O=23 56 43.4 +/- 0.15 SEC							
LAT=7.35 S +/- 2.27 KM							
LONG=128.42 E +/- 2.87 KM							
DEPTH=33 KM +/- 0.17 KM							
Ms(CHINA)=4.8/2, mb(NEIS)=5.2							
STATIONS USED=64, STAND DEV=2.23 SEC							
QZH	33.5	343	EP	24 03 23.0	0.8		
			S	24 08 43.0	2.0		
SSE	38.8	350	P	24 04 08.0	0.5		
			XS	24 10 16.0	- 2.7		
GYA	39.7	328	P	24 04 15.0	0.3		
NJ2	40.2	347	PC	24 04 20.8	1.8		
			ES	24 10 22.0	- 2.0		
			LN	Ms=4.8	9.0	0.6	
KMI	40.8	323	PC	24 04 24.5	0.3		
			AP	24 04 34.5	1.2		
			ES	24 10 38.0	4.6		
			S_mN		7.0	0.4	

April

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIA	44.6	346	EP	24 04 54.0	− 0.8		
CD2	44.8	329	IPD	24 04 56.8	0.5		
XAN	45.1	336	EP	24 04 58.0	− 1.0		
DL2	46.4	352	EP	24 05 09.5	0.1		
BJI	48.5	347	EP	24 05 24.0	− 1.4		
LZH	49.0	333	PC	24 05 29.5	0.0		
SNY	49.1	355	EP	24 05 28.0	− 2.4		
HHC	50.4	343	P	24 05 40.2	− 0.1		
CN2	51.0	357	EP	24 05 45.8	1.3		
LSA	51.4	317	PU	24 05 48.9	0.9		
			S	24 13 06.1	1.5		
MDJ	51.7	1	EP	24 05 51.5	1.3		
GTA	53.5	332	PC	24 06 03.9	0.0		
WMQ	62.8	327	IPC	24 07 08.3	− 0.7		

1984 4 8
O=10 21 20.6 +/− 0.13 SEC
LAT=36.54 N +/− 3.57 KM
LONG=140.98 E +/− 2.34 KM
DEPTH=44 KM +/− 1.53 KM
Ms(CHINA)=4.0/9, mb(NEIS)=5.1
STATIONS USED=62, STAND DEV=2.61 SEC

MDJ	11.8	316	EP	10 24 12.5	2.9		
CN2	13.9	306	EP	10 24 38.2	1.0		
			ES	10 27 12.0	0.8		
			LN	Ms=4.1		14.0	0.8
			LE			14.0	0.6
DL2	15.5	284	EP	10 25 00.0	2.1		
			LE	Ms=4.0		15.0	0.6
SSE	17.3	257	EP	10 25 17.0	− 3.9		
			AP	10 25 30.5	0.8		
			LN	Ms=4.0		20.0	0.5
NJ2	18.8	262	PD	10 25 37.6	− 1.7		
			LE	Ms=4.1		14.0	0.6
TIA	19.2	276	EP	10 25 41.7	− 2.2		
			LN	Ms=4.1		14.0	0.6
BJI	19.8	287	EP	10 25 49.0	− 1.0		
TIY	22.8	281	EP	10 26 19.4	− 1.1		
			LE	Ms=4.4		14.0	0.9
BTO	24.5	289	EP	10 26 35.3	− 2.0		
XAN	26.2	274	EP	10 26 52.4	− 1.4		
GZH	27.4	248	EP	10 27 09.5	5.4		
LZH	29.8	280	EP	10 27 25.5	− 0.8		
GYA	30.8	260	P	10 27 33.8	− 1.2		
CD2	31.3	270	EP	10 27 39.0	− 0.6		
GTA	32.4	237	P	10 27 48.3	− 0.6		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			PCP	10 30 36.0	1.0		
KMI	34.5	261	PC	10 28 04.5	− 3.2		
			ES	10 33 29.0	− 4.2		
			SmE			15.0	0.6
WMQ	40.8	297	IPC	10 29 01.0	1.4		
LSA	41.9	275	PD	10 29 11.1	1.6		

1984 4 8
O=14 54 44.3 +/− 0.20 SEC
LAT=2.68 N +/− 2.87 KM
LONG=98.58 E +/− 1.62 KM
DEPTH=14 KM +/− 0.67 KM
mb(NEIS)=4.6
STATIONS USED=17, STAND DEV=2.10 SEC

QZN	19.6	33	EP	14 59 20.2	4.7		
KMI	22.7	9	EP	14 59 45.0	− 2.0		
			ES	15 03 52.0	1.5		
			LN			4.0	1.3
GYA	24.9	17	EP	15 00 10.0	1.5		
LSA	27.8	346	EP	15 00 35.1	− 0.6		
GTA	36.6	1	EP	15 01 52.0	− 0.3		
WMQ	42.1	348	EP	15 02 35.0	− 3.1		
CN2	47.4	26	EP	15 03 19.6	− 0.7		

1984 4 8
O=15 45 12.4 +/− 0.36 SEC
LAT=43.71 N +/− 2.85 KM
LONG=150.06 E +/− 1.55 KM
DEPTH=60 KM +/− 1.45 KM
STATIONS USED=11, STAND DEV=1.42 SEC

LZH	35.9	273	E(P)	15 52 07.0	− 2.1		
GTA	37.4	281	EP	15 52 19.2	− 2.4		
CD2	38.5	266	EP	15 52 31.0	0.1		

1984 4 8
O=15 49 41.0 +/− 0.47 SEC
LAT=24.09 N +/− 4.40 KM
LONG=114.75 E +/− 4.68 KM
DEPTH=29 KM +/− 0.65 KM
Ms(CHINA)=3.2/1
STATIONS USED=7, STAND DEV=4.25 SEC

GZH	1.6	222	EPN	15 50 11.0	3.0		
			LN	Ms=3.2		11.0	0.8
			LE			12.0	0.6
KMI	11.0	277	EP	15 52 15.5	− 4.0		
CD2	11.9	307	EP	15 52 31.0	− 0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 8							
O=16 44 11.4			+/- 0.09 SEC				
LAT=56.21 N			+/- 1.76 KM				
LONG=162.94 E			+/- 1.11 KM				
DEPTH=34 KM			+/- 0.12 KM				
Ms(CHINA)=4.7/3, mb(NEIS)=4.8							
STATIONS USED=22, STAND DEV=0.99 SEC							
MDJ	24.0	255	EP	16 49 24.0	0.2		
CN2	26.7	258	EP	16 49 47.5	- 2.7		
			ES	16 51 16.0	- 6.0		
			LN	Ms=4.4		15.0	0.7
BJI	34.4	262	EP	16 51 00.0	2.2		
			LN	Ms=4.7		16.0	1.0
			LE			15.0	0.7
GTA	43.9	275	P	16 52 18.4	0.9		
			LE	Ms=4.7		14.0	0.6
LZH	44.0	268	EP	16 52 19.5	1.1		
WMQ	47.5	288	EP	16 52 46.0	0.1		
LSA	55.9	273	EP	16 53 49.1	- 0.1		
1984 4 8							
O=19 49 25.7			+/- 0.16 SEC				
LAT=5.86 S			+/- 2.16 KM				
LONG=146.99 E			+/- 2.32 KM				
DEPTH=131 KM			+/- 0.81 KM				
mb(NEIS)=5.3							
STATIONS USED=54, STAND DEV=2.54 SEC							
SSE	44.3	327	EP	19 57 22.5	- 1.7		
NJ2	46.3	326	EP	19 57 40.5	0.4		
TIA	50.4	328	EP	19 58 09.7	- 2.1		
SNY	52.1	337	EP	19 58 24.0	- 0.6		
MDJ	52.6	344	EP	19 58 28.5	- 0.4		
CN2	53.1	340	EP	19 58 30.6	- 2.0		
XAN	53.6	320	EP	19 58 34.6	- 1.3		
BJI	53.8	330	EP	19 58 36.5	- 0.8		
CD2	55.2	314	EP	19 58 49.6	2.1		
BTO	57.4	327	EP	19 59 00.9	- 2.2		
GTA	62.6	320	P	19 59 39.0	- 0.2		
LSA	64.1	306	EP	19 59 53.5	4.0		
WMQ	72.7	319	EP	20 00 39.6	- 2.2		
1984 4 8							
O=21 52 49.6			+/- 0.14 SEC				
LAT=13.37 N			+/- 3.00 KM				
LONG=92.47 E			+/- 1.87 KM				
DEPTH=85 KM			+/- 0.66 KM				

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
mb(NEIS)=4.5							
STATIONS USED=10, STAND DEV=2.37 SEC							
CD2	20.3	28	EP	21 57 25.7	4.3		
XAN	25.4	33	EP	21 58 12.9	1.6		
GTA	26.7	12	P	21 58 25.7	2.2		
1984 4 9							
O=04 20 42.6			+/- 0.11 SEC				
LAT=6.87 S			+/- 1.28 KM				
LONG=132.12 E			+/- 1.68 KM				
DEPTH=48 KM			+/- 0.43 KM				
mb(NEIS)=5.2							
STATIONS USED=33, STAND DEV=1.59 SEC							
GYA	41.3	324	P	04 28 26.0	0.2		
KMI	42.8	319	EP	04 28 35.0	- 2.8		
XAN	46.2	333	EP	04 29 04.7	- 0.8		
CD2	46.4	325	EP	04 29 06.2	- 0.2		
CN2	50.8	353	EP	04 29 40.0	- 0.7		
MDJ	51.3	357	EP	04 29 44.0	- 0.5		
LSA	53.6	314	P	04 30 02.3	0.3		
GTA	54.9	329	P	04 30 11.9	0.5		
WMQ	64.5	325	IPC	04 31 17.0	0.0		
1984 4 9							
O=11 38 09.3			+/- 0.07 SEC				
LAT=2.17 S			+/- 0.81 KM				
LONG=138.34 E			+/- 0.76 KM				
DEPTH=32 KM			+/- 0.18 KM				
mb(NEIS)=4.5							
STATIONS USED=10, STAND DEV=0.86 SEC							
XAN	45.4	325	EP	11 46 27.0	- 0.5		
CD2	46.5	317	EP	11 46 37.8	1.5		
CN2	47.2	347	EP	11 46 41.0	- 0.5		
GTA	54.4	323	P	11 47 37.1	0.7		
WMQ	64.4	321	PD	11 48 45.5	0.5		
1984 4 9							
O=11 53 02.6			+/- 0.21 SEC				
LAT=4.97 N			+/- 2.01 KM				
LONG=126.57 E			+/- 1.95 KM				
DEPTH=64 KM			+/- 2.21 KM				
STATIONS USED=13, STAND DEV=2.98 SEC							
XAN	33.2	332	E(P)	11 59 31.0	- 5.3		
CD2	33.6	322	EP	11 59 37.2	- 1.8		
BJI	36.2	346	EP	11 59 58.0	- 3.1		
GTA	42.0	328	EP	12 00 49.3	- 0.2		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 9							
O=12 49 32.5			+/- 0.19 SEC				
LAT=8.74 N			+/- 1.97 KM				
LONG=83.01 W			+/- 0.88 KM				
DEPTH=26 KM			+/- 2.16 KM				
Ms z(NEIS)=5.0, m b(NEIS)=5.1							
STATIONS USED=15, STAND DEV=1.27 SEC							
BJI	128.3	341	(PKP)	13 08 37.5	- 0.6		
KMI	145.9	350	EPKP	13 09 09.0	- 1.3		
			PP	13 12 30.0	- 4.7		
QZN	149.6	335	EPKP	13 09 19.8	3.5		
1984 4 9							
O=13 04 01.5			+/- 0.06 SEC				
LAT=4.23 S			+/- 0.86 KM				
LONG=125.96 E			+/- 1.82 KM				
DEPTH=403 KM			+/- 0.40 KM				
m b(NEIS)=4.7							
STATIONS USED=44, STAND DEV=0.96 SEC							
QZN	28.1	326	EP	13 09 19.8	- 0.5		
GZH	29.9	336	IPD	13 09 36.6	0.8		
SSE	35.5	352	PD	13 10 24.5	0.9		
			P_mZ			1.0	0.03
GYA	35.8	329	PC	13 10 27.8	1.1		
NJ2	36.8	349	PC	13 10 35.0	0.6		
KMI	36.9	323	PC	13 10 34.5	- 1.5		
CD2	40.9	330	IPC	13 11 09.0	0.5		
TIA	41.1	349	EP	13 11 09.1	- 1.0		
XAN	41.4	338	PC	13 11 13.7	1.5		
DL2	43.2	355	EP	13 11 26.5	0.1		
TIY	43.6	344	EP	13 11 30.0	- 0.3		
BJI	45.0	349	EP	13 11 40.0	- 1.1		
LZH	45.2	334	IPC	13 11 43.0	0.4		
			P_mZ			1.2	0.2
SNY	45.9	357	EP	13 11 48.0	- 0.3		
LSA	47.5	317	PC	13 12 01.3	0.7		
CN2	47.9	359	PC	13 12 01.7	- 1.4		
MDJ	48.8	3	IPC	13 12 10.4	0.3		
GTA	49.7	333	IPC	13 12 17.6	0.4		
WMQ	59.0	328	IPC	13 13 22.5	- 0.5		
1984 4 10							
O=00 04 56.0			+/- 0.09 SEC				
LAT=12.83 S			+/- 0.67 KM				
LONG=166.83 E			+/- 0.81 KM				
DEPTH=170 KM			+/- 0.84 KM				

STA. CODE	Δ deg	AZ deg	LHASEP	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=12, STAND DEV=1.06 SEC							
MDJ	66.4	331	EP	00 15 33.2	1.6		
CN2	67.8	328	IPC	00 15 40.4	0.1		
KMI	73.0	301	EP	00 16 09.5	- 2.1		
1984 4 10							
O=08 10 37.5			+/- 0.10 SEC				
LAT=10.96 N			+/- 4.61 KM				
LONG=39.46 E			+/- 2.96 KM				
DEPTH=23 KM			+/- 1.28 KM				
Ms(CHINA)=5.0/2, m b(NEIS)=5.0							
STATIONS USED=21, STAND DEV=1.72 SEC							
WMQ	52.9	42	EP	08 19 52.6	- 1.8		
GTA	60.3	50	EP	08 20 47.8	0.4		
			LE	Ms=4.7		14.0	0.4
TIY	69.9	53	E(P)	08 21 50.0	0.3		
BJI	72.9	51	P	08 22 07.5	0.1		
TIA	73.7	55	EP	08 22 12.5	0.4		
DL2	77.1	52	EP	08 22 28.0	- 3.9		
CN2	79.6	47	PC	08 22 47.0	1.5		
			ES	08 32 47.0	1.4		
			LN	Ms=5.3		18.0	1.2
1984 4 10							
O=10 25 42.7			+/- 0.15 SEC				
LAT=17.61 S			+/- 1.29 KM				
LONG=168.19 E			+/- 0.66 KM				
DEPTH=72 KM			+/- 1.26 KM				
m b(NEIS)=5.4							
STATIONS USED=41, STAND DEV=1.15 SEC							
NJ2	68.3	316	EP	10 36 38.6	- 0.5		
			XP	10 37 05.8	- 0.2		
DL2	71.1	323	EP	10 36 55.6	- 0.4		
MDJ	71.2	331	EP	10 36 56.0	- 0.7		
TIA	72.1	318	EP	10 37 00.0	- 1.7		
CN2	72.6	328	PD	10 37 04.0	- 0.6		
GYA	74.1	304	EP	10 37 14.0	0.4		
BJI	75.0	321	EP	10 37 19.5	0.4		
TIY	76.0	317	EP	10 37 25.0	0.6		
KMI	76.6	302	EP	10 37 25.0	- 3.0		
CD2	78.5	307	EP	10 37 39.2	0.9		
LZH	80.9	312	EP	10 37 53.0	1.4		
GTA	85.3	313	P	10 38 15.4	1.5		
1984 4 10							
O=14 10 36.2			+/- 0.26 SEC				

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=5.10 N			+/- 4.10 KM				
LONG=125.53 E			+/- 5.66 KM				
DEPTH=46 KM			+/- 0.51 KM				
ms(CHINA)=5.0/26,Msz(NEIS)=5.4,mb(NEIS)=5.5							
STATIONS USED=87, STAND DEV=4.02 SEC							
QZN	20.6	313	PC	14 15 14.5	- 0.1		
			P_mZ			4.0	1.0
			AP	14 15 25.0	- 0.4		
			XP	14 15 31.0	- 0.4		
			PP	14 15 41.0	4.7		
			S	14 18 57.0	- 0.9		
			S_mN			13.0	1.4
			S_mE			14.0	2.1
			LE	Ms=4.9		16.0	4.3
QZH	20.8	342	EP	14 15 14.5	- 2.0		
			AP	14 15 26.0	- 1.5		
			IS	14 18 58.0	- 3.5		
			S_mN			5.0	2.1
			S_mE			6.0	2.1
			LN	Ms=4.8		18.0	3.6
GZH	21.4	327	PD	14 15 22.8	0.4		
			XP	14 15 36.0	- 3.4		
			IS	14 19 17.0	4.5		
			LN	Ms=5.4		8.0	5.8
			LE			7.0	3.3
SSE	26.2	351	PC	14 16 14.0	5.4		
			S	14 20 42.0	6.6		
			LN	Ms=4.7		22.0	2.3
NJ2	27.5	347	EP	14 16 20.0	- 1.0		
			XP	14 16 37.6	- 0.7		
			LN	Ms=5.0		20.0	4.2
GYA	27.9	321	P	14 16 24.0	- 0.2		
			AP	14 16 35.0	- 0.6		
			S	14 21 04.0	1.0		
			LN	Ms=5.3		18.0	4.5
			LE			18.0	6.1
KMI	29.6	314	EP	14 16 35.0	- 4.6		
			AP	14 16 52.0	0.9		
			ES	14 21 29.0	- 1.6		
			LE	Ms=5.0		18.0	3.2
TIA	31.9	347	EP	14 16 55.3	- 4.7		
			PCP	14 19 48.4	- 0.5		
			S	14 21 59.0	- 8.0		
			LN	Ms=5.1		20.0	2.6
			LE			20.0	3.3
XAN	32.7	333	PC	14 17 04.0	- 2.7		
			S	14 22 12.9	- 5.9		
			LN	Ms=5.1		15.0	2.4
			LE			16.0	1.9
CD2	32.8	323	EP	14 17 07.6	- 0.6		
			P_mZ			1.4	0.3
			ES	14 22 19.5	- 2.0		
			LN	Ms=5.3		18.5	5.4
DL2	33.8	354	EP	14 17 14.9	- 1.8		
			AP	14 17 27.0	- 1.6		
			XP	14 17 32.0	- 2.2		
			ES	14 22 34.0	- 2.9		
			SCS	14 27 36.0	2.0		
			LE	Ms=5.2		18.0	4.5
TIY	34.6	341	EP	14 17 21.2	- 2.1		
			ES	14 22 42.5	- 6.3		
			LN	Ms=5.7		13.0	5.0
			LE			16.0	9.0
BJI	35.8	347	EP	14 17 31.0	- 2.4		
			EAP	14 17 40.5	- 4.9		
			PCP	14 19 59.5	- 0.4		
			ES	14 23 01.5	- 5.6		
			ESCS	14 27 48.0	3.6		
			LN	Ms=4.8		19.0	1.7
SNY	36.6	357	PC	14 17 38.6	- 1.7		
			S	14 23 15.0	- 4.7		
			SCS	14 27 49.0	0.1		
			LN	Ms=5.0		18.0	1.9
			LE			13.5	1.3
LZH	36.7	329	PC	14 17 40.5	- 1.0		
			P_mZ			2.0	0.3
			ES	14 23 20.0	- 1.8		
			LE	Ms=5.0		11.0	1.5
HHC	37.7	342	P	14 17 49.6	- 0.3		
			AP	14 18 04.0	2.2		
			ES	14 23 37.0	- 0.1		
			LN	Ms=4.9		17.0	1.6
BTO	38.0	340	EP	14 17 51.0	- 1.1		
			EXP	14 18 10.0	0.4		
			PP	14 19 23.0	1.2		
			S	14 23 38.5	- 2.5		
			LN	Ms=4.9		15.0	1.2
			LE			15.0	0.9
CN2	38.5	359	PC	14 17 54.0	- 2.5		
			P_mZ			3.0	0.4
			EAP	14 18 06.0	- 2.5		
			PCP	14 20 06.5	- 1.7		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	14 23 45.0	− 4.1		
			SCP	14 23 51.0	0.2		
			XS	14 24 05.0	− 4.4		
			SCS	14 27 59.0	− 0.9		
			LN	Ms=5.0		15.0	1.6
MDJ	39.5	4	IPC	14 18 04.4	− 0.2		
			AP	14 18 16.0	− 0.6		
			XP	14 18 20.5	− 1.8		
			S	14 24 00.0	− 3.9		
			S_mE			6.0	0.7
			XS	14 24 23.0	− 1.1		
			SCS	14 28 07.0	1.5		
LSA	40.6	311	P	14 18 15.1	0.7		
			IS	14 24 23.9	2.3		
			S_mE			5.0	0.4
GTA	41.3	329	P	14 18 19.4	− 0.3		
KSH	56.2	314	PU	14 20 15.0	0.3		
			S	14 28 02.0	2.3		
			S_mN			8.0	1.6

1984 4 10
O=18 07 10.3 +/− 0.08 SEC
LAT=1.91 N +/− 0.83 KM
LONG=126.33 E +/− 0.95 KM
DEPTH=94 KM +/− 0.75 KM
mb(NEIS)=4.9
STATIONS USED=14, STAND DEV=1.28 SEC

QZN	23.5	317	EP	18 12 14.8	2.6		
BJI	39.1	347	EP	18 14 30.0	0.1		
LZH	39.9	331	EP	18 14 36.0	− 0.9		

1984 4 10
O=19 44 10.3 +/− 0.52 SEC
LAT=25.58 N +/− 4.70 KM
LONG=121.06 E +/− 4.68 KM
DEPTH=16 KM +/− 1.34 KM
Ms(CHINA)=3.4/2, ML(CHINA)=3.8/3
STATIONS USED=14, STAND DEV=3.55 SEC

QZH	2.3	254	EPN	19 44 45.0	− 2.0		
			PG	19 44 53.5	0.4		
			SN	19 45 17.7	2.9		
			SG	19 45 26.3	2.5		
			LG_2	19 45 35.0	7.9		
			LN			1.0	1.3
			LE			0.5	0.3
SSE	5.5	1	PN	19 45 33.0	1.0		
			LN	Ms=3.5		12.0	0.6
NJ2	6.7	343	EPN	19 45 51.3	1.8		
			LN			4.0	0.4
CN2	18.5	10	EP	19 48 27.0	0.6		

1984 4 10
O=20 24 54.3 +/− 0.16 SEC
LAT=12.12 N +/− 8.59 KM
LONG=94.74 E +/− 5.89 KM
DEPTH=19 KM +/− 5.14 KM
Ms(CHINA)=4.5/15, mb(NEIS)=4.7
STATIONS USED=43, STAND DEV=3.37 SEC

KMI	15.0	29	EP	20 28 26.0	− 1.4		
			AP	20 28 33.5	0.9		
			PP	20 28 36.5	− 2.3		
			ES	20 31 23.0	8.8		
			LN	Ms=4.4		15.0	1.8
QZN	16.1	62	EP	20 28 39.0	− 2.4		
			ES	20 31 31.0	− 8.6		
			LE	Ms=4.2		12.0	0.9
LSA	17.8	349	EP	20 29 04.5	1.0		
GYA	18.1	36	P	20 29 06.0	− 1.5		
			LE	Ms=4.3		11.0	0.9
CD2	20.5	22	EP	20 29 32.0	− 2.0		
			LE			11.0	1.2
GZH	20.8	56	EP	20 29 35.5	− 1.8		
			LN	Ms=4.3		12.0	0.4
			LE			10.0	0.5
LZH	25.2	17	EP	20 30 20.0	− 1.2		
			P_mZ			1.5	0.07
XAN	25.4	28	EP	20 30 22.0	− 0.3		
			ES	20 34 43.0	− 2.6		
			LN	Ms=4.6		11.0	0.7
			LE			12.0	0.7
GTA	27.5	9	EP	20 30 42.9	0.3		
			LE	Ms=4.2		11.0	0.4
NJ2	29.8	44	EP	20 31 06.0	3.8		
			LN	Ms=4.5		10.0	0.5
TIY	30.0	23	EP	20 31 07.1	-2.5		
BTO	31.4	22	EP	20 31 16.0	− 0.9		
			LN	Ms=4.5		12.0	0.5
			LE			12.0	0.3
WMQ	32.2	350	EP	20 31 27.5	3.8		
HHC	32.2	24	P	20 31 21.8	− 2.5		
BJI	33.6	30	EP	20 31 34.0	− 2.3		
DL2	36.8	37	EP	20 32 00.0	5.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN	Ms=4.4		13.0	0.4
SNY	38.8	35	EP	20 32 15.2	− 5.2		
CN2	41.2	34	PC	20 32 37.0	− 2.7		
			ES	20 38 45.0	− 7.4		
			LN	Ms=5.0		14.0	0.5
MDJ	44.0	35	EP	20 33 06.5	3.6		

1984 4 10
O=20 41 44.0 +/− 0.15 SEC
LAT=11.72 N +/− 5.55 KM
LONG=95.21 E +/− 5.27 KM
DEPTH=45 KM +/− 3.27 KM
mb(NEIS)=4.6
STATIONS USED=13, STAND DEV=3.27 SEC

KMI	15.1	27	EP	20 45 14.0	− 2.7		
			ES	20 48 10.0	6.4		
			LE			10.0	0.3
GYA	18.2	34	P	20 45 54.8	− 0.6		
LSA	18.3	348	EP	20 45 53.3	− 3.5		
CD2	20.7	21	EP	20 46 20.7	− 2.2		
LZH	25.5	16	EP	20 47 07.5	− 2.8		
BJI	33.7	29	P	20 48 22.5	− 1.4		
CN2	41.2	33	P	20 49 25.2	− 1.7		

1984 4 10
O=21 07 26.3 +/− 0.28 SEC
LAT=11.60 N +/− 2.92 KM
LONG=95.09 E +/− 4.06 KM
DEPTH=30 KM +/− 0.45 KM
mb(NEIS)=4.6
STATIONS USED=15, STAND DEV=3.70 SEC

KMI	15.3	27	EP	21 11 04.5	2.5		
			LN			12.0	0.4
QZN	16.0	60	EP	21 11 15.8	4.4		
CD2	20.8	21	EP	21 12 04.2	− 4.0		
LZH	25.6	16	EP	21 12 55.0	− 0.5		
GTA	28.0	7	EP	21 13 14.3	− 3.1		
BJI	33.9	29	P	21 14 09.5	0.4		
CN2	41.4	33	PC	21 15 08.6	− 3.5		

1984 4 11
O=00 46 48.1 +/− 0.16 SEC
LAT=57.91 S +/− 2.57 KM
LONG=25.77 W +/− 4.21 KM
DEPTH=65 KM +/− 1.65 KM
mb(NEIS)=5.3

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=12, STAND DEV=1.72 SEC							
SSE	144.9	125	EPKP	01 06 18.0	− 0.9		
TIY	146.2	108	EPKP	01 06 21.8	0.7		
TIA	147.3	115	EPKP	01 06 25.2	2.2		
BJI	149.8	109	(PKP)	01 06 31.0	4.0		

1984 4 11
O=01 41 18.7 +/− 0.10 SEC
LAT=23.14 N +/− 1.00 KM
LONG=120.99 E +/− 2.37 KM
DEPTH=16 KM +/− 0.91 KM
Ms(CHINA)=3.7/1, ML(CHINA)=4.0/7
STATIONS USED=23, STAND DEV=1.21 SEC

QZH	2.8	309	PND	01 42 04.0	− 0.3		
			PG	01 42 12.8	2.4		
			SN	01 42 38.8	0.1		
			S_mN	ML=3.6		0.5	0.3
			S_mE			0.6	0.3
GZH	7.0	271	EPN	01 43 03.4	− 0.5		
			ESN	01 44 20.2	− 4.5		
			LN			0.9	0.08
			LE			0.9	0.08
SSE	7.9	1	EPN	01 43 15.6	− 0.6		
NJ2	9.1	348	EP	01 43 31.6	− 0.6		
			LG_2	01 46 20.0	2.0		
			LN	Ms=3.7		10.0	0.5
GYA	13.4	287	P	01 44 31.0	− 0.6		
CD2	17.2	300	(P)	01 45 22.5	2.4		

1984 4 11
O=05 01 03.6 +/− 0.34 SEC
LAT=21.73 S +/− 1.29 KM
LONG=169.28 E +/− 1.73 KM
DEPTH=56 KM +/− 2.67 KM
mb(NEIS)=4.7
STATIONS USED=12, STAND DEV=1.54 SEC

MDJ	75.3	331	EP	05 12 40.7	− 2.6		
TIA	75.8	318	EP	05 12 48.2	2.0		
CN2	76.6	328	EP	05 12 52.0	1.4		

1984 4 11
O=07 31 30.5 +/− 0.13 SEC
LAT=22.97 N +/− 1.70 KM
LONG=121.35 E +/− 2.30 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=8 KM +/- 0.92 KM							
Ms(CHINA)=4.2/7, ML(CHINA)=4.1/7							
STATIONS USED=32, STAND DEV=2.26 SEC							
QZH	3.2	308	PN	07 32 26.1	4.0		
			PG	07 32 30.1	1.3		
			SN	07 32 57.2	- 3.8		
GZH	7.4	272	EPN	07 33 21.4	0.2		
			SN	07 34 40.0	- 6.0		
			LN			0.9	0.07
			LE			0.9	0.09
SSE	8.1	359	EP	07 33 31.1	- 0.2		
			LG_2	07 36 02.5	4.8		
			LN			1.0	0.03
			LE			1.2	0.1
NJ2	9.3	346	EP	07 33 46.0	- 2.2		
			S	07 35 29.6	- 4.9		
			LG_2	07 36 31.0	- 6.9		
			LE	Ms=4.2		11.0	1.5
TIA	13.7	345	EP	07 34 52.0	4.3		
			LN	Ms=4.3		14.0	0.6
			LE			14.0	1.5
GYA	13.8	287	P	07 34 48.8	- 0.2		
CD2	17.6	300	EP	07 35 38.2	0.8		
LZH	20.0	314	EP	07 36 06.5	- 0.7		
CN2	21.1	8	EP	07 36 19.2	1.6		
			ES	07 40 06.0	- 1.6		
			LN	Ms=4.2		13.0	0.7
MDJ	22.6	15	EP	07 36 32.3	- 1.1		
1984 4 11							
O=08 15 28.6 +/- 0.32 SEC							
LAT=34.80 N +/- 1.46 KM							
LONG=79.64 E +/- 1.54 KM							
DEPTH=37 KM +/- 2.49 KM							
Ms(CHINA)=4.4/6, mb(NEIS)=4.8							
STATIONS USED=39, STAND DEV=1.77 SEC							
KSH	5.5	328	P	08 16 54.0	3.6		
			LG_2	08 18 29.0	- 0.8		
			LE			3.0	7.8
WMQ	11.0	32	EP	08 18 07.4	1.2		
			XP	08 18 22.0	3.0		
			(S)	08 20 05.7	- 3.1		
			LE	Ms=4.5		6.0	1.6
LSA	11.0	114	EP	08 18 07.3	0.2		
			ES	08 20 11.5	1.2		
			LN	Ms=4.5		10.0	2.3
			LE			10.0	1.0
GTA	16.7	68	EP	08 19 25.0	2.8		
			LN	Ms=4.1		11.5	0.6
LZH	19.8	79	EP	08 19 57.0	- 1.6		
CD2	20.6	94	EP	08 20 06.5	- 1.1		
			ES	08 23 46.0	- 5.3		
			LE	Ms=4.5		9.0	1.0
KMI	22.2	109	PC	08 20 19.0	- 4.5		
GYA	24.6	102	P	08 20 48.4	0.9		
BTO	24.7	67	EP	08 20 50.0	2.4		
NJ2	32.7	83	PD	08 22 01.5	1.3		
SSE	34.9	84	EP	08 22 20.5	1.5		
CN2	36.2	61	EP	08 22 30.0	0.0		
			AP	08 22 42.0	1.9		
			ES	08 28 06.0	- 1.0		
			LN	Ms=4.2		13.0	0.3
MDJ	39.1	60	EP	08 22 56.0	1.4		
1984 4 11							
O=11 03 00.2 +/- 0.03 SEC							
LAT=39.14 N +/- 0.30 KM							
LONG=117.54 E +/- 0.44 KM							
DEPTH=0 KM +/- 0.18 KM							
ML(CHINA)=3.3/15							
STATIONS USED=19, STAND DEV=3.17 SEC							
TIA	2.9	186	EPN	11 03 51.6	2.4		
			PG	11 03 59.0	5.2		
			SG	11 04 39.8	7.4		
			S_m N	ML=3.1		0.3	0.1
			S_m E			0.3	0.05
DL2	3.2	92	PN	11 03 47.6	- 5.1		
CN2	7.5	49	PB	11 05 12.5	1.2		
1984 4 11							
O=11 22 00.1 +/- 0.14 SEC							
LAT=23.16 N +/- 1.47 KM							
LONG=120.97 E +/- 3.75 KM							
DEPTH=4 KM +/- 1.44 KM							
ML(CHINA)=3.8/6							
STATIONS USED=16, STAND DEV=1.70 SEC							
QZH	2.8	309	EPN	11 22 44.8	- 1.8		
			PG	11 22 53.9	2.7		
			SN	11 23 19.4	- 2.0		
			SG	11 23 30.9	2.9		
GZH	7.0	270	EPN	11 23 51.0	4.7		
			ESN	11 25 14.0	6.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN			1.0	0.07
			LE			1.2	0.06
SSE	7.9	1	EPN	11 23 56.6	− 2.1		
QZN	11.2	250	EP	11 24 46.1	2.2		
GYA	13.4	287	EP	11 25 12.0	− 2.0		

1984 4 11
O = 13 51 06.1 +/− 0.10 SEC
LAT = 21.16 N +/− 1.63 KM
LONG = 120.98 E +/− 1.84 KM
DEPTH = 27 KM +/− 0.75 KM
Ms(CHINA) = 4.1/6, mb(NEIS) = 4.4, ML(CHINA) = 3.6/6
STATIONS USED = 45, STAND DEV = 1.70 SEC

GZH	7.3	286	PNC	13 52 51.6	− 2.7		
			SN	13 54 10.0	− 7.6		
			LN	Ms = 4.0		11.0	0.9
			LE			11.0	0.9
SSE	9.9	1	EP	13 53 31.9	2.0		
QZN	10.7	260	EP	13 53 39.9	− 0.7		
GYA	14.1	294	EP	13 54 29.4	2.5		
XAN	16.7	322	E(P)	13 55 02.0	2.1		
TIY	18.1	337	EP	13 55 18.7	1.2		
			ES	13 58 35.0	− 0.8		
			LE	Ms = 4.3		15.0	1.1
CD2	18.2	305	EP	13 55 19.6	0.1		
BJI	19.3	348	EP	13 55 30.5	− 1.1		
LZH	21.1	318	IP	13 55 51.5	0.1		
			P_mZ			1.6	0.05
HHC	21.2	339	E(P)	13 55 50.0	− 2.3		
BTO	21.5	336	EP	13 55 54.7	− 0.7		
CN2	22.9	8	EP	13 56 07.5	− 1.5		
			ES	14 00 12.0	− 0.9		
			LN	Ms = 4.1		13.0	0.5
MDJ	24.5	14	IPC	13 56 24.0	− 0.3		

1984 4 11
O = 13 51 09.3 +/− 0.48 SEC
LAT = 5.76 N +/− 1.86 KM
LONG = 94.64 E +/− 2.38 KM
DEPTH = 75 KM +/− 3.80 KM
mb(NEIS) = 5.2
STATIONS USED = 59, STAND DEV = 1.32 SEC

QZN	19.8	46	EP	13 55 38.0	1.2		
			S	13 59 05.0	− 6.1		
KMI	20.8	21	PC	13 55 45.5	− 1.1		
			XP	13 56 07.5	− 3.8		
			ES	13 59 22.0	− 7.5		
			LN			11.0	0.7
GYA	23.6	27	P	13 56 16.0	1.8		
			XP	13 56 39.0	− 3.3		
			S	14 00 22.0	2.1		
LSA	24.0	352	EP	13 56 21.0	1.9		
			S	14 00 28.2	− 0.5		
GZH	24.9	44	PD	13 56 28.5	1.2		
CD2	26.4	17	IPC	13 56 41.4	0.0		
XAN	31.1	23	EP	13 57 22.0	− 1.2		
			ES	14 02 18.5	− 3.8		
LZH	31.3	14	IPC	13 57 24.5	− 0.9		
GTA	33.8	7	P	13 57 46.9	0.0		
NJ2	34.6	37	PD	13 57 54.0	0.7		
			LE			8.5	0.4
SSE	35.4	41	P	13 58 01.1	0.6		
			P_mZ			0.5	0.02
TIY	35.7	24	EP	13 58 02.6	− 0.3		
TIA	36.7	31	PC	13 58 11.0	0.1		
			PCP	14 00 32.3	0.2		
			LN			11.5	0.3
			LE			11.5	0.6
HHC	38.1	20	EP	13 58 23.4	0.5		
BJI	39.2	26	EP	13 58 33.5	1.1		
DL2	41.0	32	P	13 58 48.0	0.7		
			ES	14 04 54.0	− 0.4		
SNY	44.2	31	PC	13 59 12.9	− 0.1		
CN2	46.6	30	IPC	13 59 31.3	− 0.5		
			PCP	14 01 04.0	− 0.7		
MDJ	49.3	32	IPC	13 59 53.2	0.1		

1984 4 11
O = 14 34 40.4 +/− 0.10 SEC
LAT = 22.12 S +/− 1.70 KM
LONG = 174.46 W +/− 2.29 KM
DEPTH = 35 KM +/− 0.92 KM
mb(NEIS) = 4.7
STATIONS USED = 16, STAND DEV = 1.36 SEC

MDJ	83.7	323	EP	14 47 08.8	0.7		
CN2	85.6	320	PC	14 47 17.0	− 0.4		
BJI	89.4	314	P	14 47 34.5	− 1.0		
KMI	93.0	295	EP	14 47 50.0	− 2.8		
			ES	14 58 54.0	− 0.4		

1984 4 11
O = 15 04 23.7 +/− 0.12 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=8.91 N			**+/− 1.91 KM**				
LONG=123.12 E			**+/− 2.71 KM**				
DEPTH=34 KM			**+/− 1.08 KM**				
Ms(CHINA)=4.7/21, mb(NEIS)=5.4							
STATIONS USED=72, STAND DEV=1.83 SEC							
QZN	16.3	309	PU	15 08 13.0	0.8		
			S	15 11 19.0	7.0		
			LN	Ms=4.9		13.0	1.9
			LE			14.0	4.4
QZH	16.5	345	P	15 08 16.0	1.5		
			S	15 11 20.0	3.8		
			LN	Ms=4.5		19.0	2.4
GZH	16.9	327	EP	15 08 21.0	1.3		
			ES	15 11 27.0	1.3		
			LN	Ms=4.9		15.0	2.6
			LE			15.0	3.8
SSE	22.1	355	PD	15 09 19.4	1.1		
			P_mZ			1.0	0.08
			ES	15 13 19.0	3.6		
			XS	15 13 26.0	− 4.2		
WHN	23.0	340	P	15 09 28.0	1.0		
NJ2	23.4	350	PC	15 09 31.8	1.5		
			XP	15 09 45.0	1.3		
			ES	15 13 38.0	0.7		
			LE	Ms=4.3		12.0	0.7
GYA	23.4	320	P	15 09 32.0	1.1		
			XP	15 09 45.0	0.8		
			S_mN			8.0	0.9
			S_mE			8.0	0.7
			LN	Ms=4.9		16.0	2.7
			LE			16.0	1.5
KMI	25.2	312	EP	15 09 48.0	− 0.6		
			AP	15 09 54.0	− 3.5		
			XP	15 09 59.0	− 2.8		
			ES	15 14 08.0	− 1.7		
			LE	Ms=4.8		16.0	2.6
TIA	27.7	349	EP	15 10 10.8	− 0.6		
			ES	15 14 46.0	− 4.0		
			LN	Ms=4.5		21.0	1.5
XAN	28.2	334	EP	15 10 14.0	− 1.9		
			ES	15 15 04.0	6.0		
			LN	Ms=4.9		14.0	1.7
			LE			14.0	1.1
CD2	28.4	323	EP	15 10 16.1	− 1.2		
			ES	15 14 55.0	− 5.5		
			LE	Ms=4.8		12.0	1.6
DL2	29.9	357	P	15 10 30.6	− 0.2		
TIY	30.3	343	P	15 10 33.0	− 1.1		
			ES	15 15 25.0	− 5.6		
			LN	Ms=4..6		14.0	1.0
BJI	31.6	349	EP	15 10 45.0	− 1.0		
			S	15 15 52.0	0.3		
			LE	Ms=4..1		14.5	0.3
LZH	32.2	329	IP	15 10 51.5	− 0.3		
			P_mZ			1.5	0.2
			LE	Ms=4..7		15.0	1.3
SNY	32.8	0	EP	15 10 55.1	− 1.2		
			ES	15 16 10.0	− 0.1		
			LE	Ms=4..5		24.0	1.3
HHC	33.4	343	EP	15 11 00.0	− 1.9		
BTO	33.6	341	EP	15 11 02.3	− 1.5		
CN2	34.8	2	EP	15 11 12.5	− 1.3		
			AP	15 11 22.5	− 0.8		
			EPP	15 12 34.0	2.8		
			PCP	15 13 45.2	− 1.0		
			ES	15 16 39.0	− 2.6		
			LN	Ms=4..4		13.0	0.5
MDJ	36.0	7	PC	15 11 23.6	− 0.4		
LSA	36.4	309	PU	15 11 27.7	0.2		
			S	15 17 08.1	1.6		
GTA	36.8	329	PC	15 11 31.3	0.2		
			LN	Ms=4..9		14.0	0.8
			LE			14.0	1.2
WMQ	46.4	324	P	15 12 49.8	0.1		
1984 4 11							
O=15 34 51.8			**+/− 0.39 SEC**				
LAT=9.11 N			**+/− 1.60 KM**				
LONG=125.66 E			**+/− 2.19 KM**				
DEPTH=59 KM			**+/− 3.03 KM**				
Msz(NEIS)=4.8, mb(NEIS)=4.9							
STATIONS USED=33, STAND DEV=1.56 SEC							
QZN	18.2	304	EP	15 39 02.2	− 0.2		
GZH	18.2	321	PC	15 39 04.0	1.5		
SSE	22.3	349	EP	15 39 45.0	− 0.5		
NJ2	23.7	345	EP	15 39 59.0	− 0.3		
KMI	27.0	308	EP	15 40 27.0	− 3.9		
CD2	29.8	319	EP	15 40 55.3	− 0.3		
DL2	29.9	353	EP	15 40 58.5	2.0		
BJI	31.9	346	P	15 41 14.0	− 0.6		
SNY	32.6	357	EP	15 41 19.2	− 1.5		
CN2	34.6	359	EP	15 41 38.0	0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	35.5	4	EP	15 41 44.0	− 1.6		
WMQ	47.8	323	EP	15 43 29.5	3.8		
1984 4 11							
O=15 58 12.7			+/−	0.22 SEC			
LAT=7.33 S			+/−	0.85 KM			
LONG=128.43 E			+/−	1.26 KM			
DEPTH=166 KM			+/−	1.75 KM			
mb(NEIS)=5.0							
STATIONS USED=32, STAND DEV=0.91 SEC							
GYA	39.7	328	EP	16 05 32.0	1.4		
NJ2	40.2	347	EP	16 05 36.0	1.1		
KMI	40.8	323	EP	16 05 39.0	− 1.1		
CD2	44.8	329	EP	16 06 12.7	0.9		
XAN	45.1	336	P	16 06 14.0	− 0.5		
BJI	48.5	347	EP	16 06 40.0	− 0.8		
CN2	51.0	357	EP	16 06 58.8	− 0.9		
MDJ	51.7	1	EP	16 07 05.5	0.1		
WMQ	62.8	327	EP	16 08 24.0	0.3		
				--			
1984 4 11							
O=19 36 34.9			+/−	0.21 SEC			
LAT=13.05 N			+/−	3.23 KM			
LONG=95.40 E			+/−	3.88 KM			
DEPTH=15 KM			+/−	1.57 KM			
Ms(CHINA)=4.8/16, mb(NEIS)=4.6							
STATIONS USED=27, STAND DEV=3.54 SEC							
KMI	13.9	28	EP	19 39 51.0	− 2.9		
			AP	19 39 55.0	− 3.6		
			LE	Ms=4.7		11.0	3.0
GYA	17.0	36	P	19 40 36.0	1.4		
			S	19 43 52.0	9.0		
			LN	Ms=4.8		10.0	1.6
			LE			10.0	2.1
LSA	17.0	347	EP	19 40 32.8	− 2.3		
			ES	19 43 44.0	0.2		
CD2	19.4	22	EP	19 41 02.0	-- 1.3		
			ES	19 44 39.0	3.0		
			LE	Ms=4.7		9.0	1.7
GZH	19.7	57	E(P)	19 41 12.0	4.6		
			LN	Ms=4.8		10.0	0.9
			LE			10.0	2.0
LZH	24.2	16	EP	19 41 51.5	− 0.7		
			ES	19 46 09.0	1.7		
			LE	Ms=4.7		10.0	1.4
XAN	24.2	28	EP	19 41 48.6	− 4.2		
			ES	19 46 04.0	− 4.4		
			SS	19 46 58.0	− 1.8		
			LN	Ms=5.0		11.0	1.6
			LE			11.0	2.0
WHN	24.7	42	EP	19 41 53.5	− 3.5		
GTA	26.5	7	EP	19 42 14.6	− 0.1		
			LE			10.5	0.6
NJ2	28.6	44	EP	19 42 32.0	− 1.5		
			LN	Ms=4.9		10.0	1.6
WMQ	31.4	349	EP	19 42 56.8	− 1.2		
BJI	32.5	30	(P)	19 43 13.5	5.7		
			LN	Ms=4.7		12.0	0.7
			LE			11.5	0.7
CN2	40.0	34	EP	19 44 10.5	− 1.2		
			ES	19 50 16.0	− 1.4		
			LN	Ms=4.9		13.0	0.7
1984 4 11							
O=23 30 07.0			+/−	0.12 SEC			
LAT=40.39 N			+/−	1.26 KM			
LONG=63.14 E			+/−	2.33 KM			
DEPTH=35 KM			+/−	0.91 KM			
Ms(CHINA)=5.2/1, mb(NEIS)=4.7							
STATIONS USED=28, STAND DEV=2.02 SEC							
WMQ	18.5	71	EP.	23 34 21.2	− 1.7		
			ES	23 37 50.0	4.7		
			LN			2.5	0.3
LSA	25.2	106	EP	23 35 32.2	0.5		
CD2	34.1	93	EP	23 36 51.0	0.3		
XAN	36.7	85	EP	23 37 10.5	− 2.4		
GYA	38.5	97	EP	23 37 27.4	− 0.9		
1984 4 12							
O=03 28 31.6			+/−	1.25 SEC			
LAT=0.05 N			+/−	4.92 KM			
LONG=119.68 E			+/−	5.40 KM			
DEPTH=33 KM			+/−	9.80 KM			
mb(NEIS)=4.8							
STATIONS USED=32, STAND DEV=3.85 SEC							
QZN	21.2	333	EP	03 33 17.2	0.5		
GZH	23.7	345	EP	03 33 42.0	0.4		
GYA	29.1	335	P	03 34 32.6	0.8		
KMI	29.8	327	EP	03 34 35.5	− 2.9		
SSE	30.9	2	EP	03 34 48.0	0.2		
			XS	03 40 02.0	− 2.0		
CD2	34.2	335	P	03 35 21.9	5.3		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
XAN	35.3	344	EP	03 35 26.2	0.4		
TIA	36.1	356	P	03 35 31.8	− 0.5		
DL2	38.7	2	EP	03 35 53.6	− 0.9		
SNY	41.7	4	EP	03 36 18.4	− 1.2		
GTA	43.2	337	IPD	03 36 32.9	1.3		
CN2	43.9	6	PC	03 36 34.0	− 3.0		
MDJ	45.2	9	IP	03 36 46.0	− 2.0		
WMQ	52.1	330	EP	03 37 42.0	0.9		

1984 4 12
O=14 49 49.6 +/− 0.61 SEC
LAT=20.89 S +/− 2.07 KM
LONG=165.76 E +/− 2.24 KM
DEPTH=3 KM +/− 4.75 KM
mb(NEIS)=4.9
STATIONS USED=24, STAND DEV=1.57 SEC

TIA	73.1	320	EP	15 01 22.4	− 1.3		
MDJ	73.1	333	EP	15 01 23.0	− 0.8		
CN2	74.2	330	EP	15 01 29.6	− 0.8		
BJI	76.2	322	P	15 01 41.5	− 0.3		
KMI	76.4	303	EP	15 01 40.0	− 3.2		
XAN	76.9	314	P	15 01 45.2	− 0.4		
LZH	81.4	313	IPR	15 02 11.5	1.0		
GTA	85.9	314	EP	15 02 34.6	1.3		

1984 4 12
O=17 00 11.6 +/− 0.20 SEC
LAT=18.00 S +/− 0.76 KM
LONG=178.34 W +/− 0.76 KM
DEPTH=587 KM +/− 1.57 KM
mb(NEIS)=4.8
STATIONS USED=12, STAND DEV=0.89 SEC

CN2	80.1	322	EP	17 11 24.0	0.6		
BJI	83.9	315	(P)	17 11 43.5	1.2		

1984 4 12
O=21 40 35.6 +/− 0.16 SEC
LAT=11.16 N +/− 2.11 KM
LONG=94.97 E +/− 2.57 KM
DEPTH=27 KM +/− 1.04 KM
Ms(CHINA)=3.9/1, mb(NEIS)=4.4
STATIONS USED=18, STAND DEV=2.80 SEC

KMI	15 .7	26	EP	21 44 16.5	− 0.8		
			ES	21 47 09.0	− 2.3		
			LN	Ms=3.9		13.0	0.5
LSA	18.8	349	EP	21 44 52.1	− 4.0		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GYA	18.8	34	P	21 44 56.4	0.6		
CD2	21.3	21	EP	21 45 19.0	− 3.5		
LZH	26.1	16	EP	21 46 08.5	− 0.9		
XAN	26.1	27	EP	21 46 05.0	− 4.4		
GTA	28.5	7	EP	21 46 28.6	− 2.5		
WMQ	33.1	350	EP	21 47 17.2	4.8		
CN2	41.8	33	PD	21 48 26.6	1.2		

1984 4 12
O=21 52 39.6 +/− 0.27 SEC
LAT=11.64 N +/− 2.52 KM
LONG=94.93 E +/− 7.54 KM
DEPTH=6 KM +/− 2.87 KM
mb(NEIS)=4.4
STATIONS USED=9, STAND DEV=2.41 SEC

KMI	15.3	27	EP	21 56 19.5	1.0		
CD2	20.8	21	EP	21 57 22.4	− 2.6		
LZH	25.6	16	(P)	21 58 13.5	1.4		
XAN	25.7	27	EP	21 58 08.3	− 4.2		
GTA	28.0	8	EP	21 58 35.4	1.6		
CN2	41.5	33	P	22 00 33.5	4.2		

1984 4 12
O=23 20 34.0 +/− 1.56 SEC
LAT=6.95 S +/− 8.14 KM
LONG=155.51 E +/− 9.68 KM
DEPTH=16 KM +/− 12.04 KM
mb(NEIS)=4.6
STATIONS USED=23, STAND DEV=2.72 SEC

CN2	57.4	334	P	23 30 22.0	− 2.6
GYA	57.8	307	P	23 30 26.2	− 1.8
XAN	60.0	315	EP	23 30 40.8	− 2.4
KMI	60.4	303	PC	23 30 40.5	− 5.5
CD2	62.2	310	EP	23 30 56.5	− 1.2
LSA	71.7	304	EP	23 31 58.0	− 0.3

1984 4 13
O=06 21 51.8 +/− 0.15 SEC
LAT=11.53 N +/− 2.39 KM
LONG=95.00 E +/− 2.78 KM
DEPTH=25 KM +/− 1.13 KM
ms(CHINA)=5.0/19, Msz(NEIS)=4.7, mb(NEIS)=5.0
STATIONS USED=50, STAND DEV=2.63 SEC

KMI	15.4	27	EP	06 25 30.5	1.1
			XP	06 25 43.0	3.2
			ES	06 28 11.0	− 9.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN	Ms=4.9		13.0	4.6
LSA	18.4	349	EP	06 26 06.0	− 2.1		
			S	06 29 29.8	− 0.8		
GYA	18.5	34	P	06 26 08.8	0.5		
			AP	06 26 18.0	3.3		
			S	06 29 37.0	6.1		
			LN	Ms=4.9		13.0	2.2
			LE			13.0	3.8
GZH	20.9	54	EP	06 26 37.4	2.1		
			S	06 30 28.0	5.4		
			LN	Ms=4.9		10.0	2.1
			LE			10.0	1.4
CD2	20.9	21	PD	06 26 34.0	− 1.5		
			ES	06 30 21.0	− 1.9		
			LE	Ms=5.2		11.0	5.1
LZH	25.7	16	PD	06 27 21.5	− 1.1		
			P_m Z			1.6	0.2
			AP	06 27 31.5	1.5		
			ES	06 31 39.0	− 9.0		
			LE	Ms=5.1		16.0	4.3
XAN	25.8	27	EP	06 27 20.1	− 2.7		
			AP	06 27 30.0	− 0.4		
			S	06 31 48.0	− 0.4		
			SS	06 32 59.0	6.7		
			LN	Ms=5.1		10.0	1.6
			LE			11.0	2.5
GTA	28.1	7	P	06 27 43.6	− 0.7		
			LE	Ms =4.9		12.0	1.2
NJ2	30.0	43	EP	06 28 01.0	− 0.1		
			ES	06 33 03.0	6.3		
			LN	Ms=5.1		12.5	2.4
			LE			13.0	2.0
TIY	30.4	28	EP	06 28 04.5	− 0.3		
			ES	06 33 10.0	6.8		
			LE	Ms=5.4		11.0	4.5
SSE	31.1	47	EP	06 28 10.3	− 0.3		
			AP	06 28 17.8	− 0.7		
			ES	06 33 12.0	− 1.6		
			LN	Ms=5.2		12.0	2.9
TIA	31.7	35	EP	06 28 14.4	− 1.5		
			ES	06 33 19.8	− 3.2		
			ESS	06 35 20.0	7.7		
			LN	Ms=5.0		16.0	1.6
			LE			16.0	2.2
BTO	31.8	21	EP	06 28 16.0	− 1.5		
			ES	06 33 28.0	2.1		
			LN	Ms=5.0		11.0	1.5
			LE			11.0	1.2
HHC	32.6	23	EP	06 28 24.0	− 0.6		
			AP	06 28 33.0	0.7		
			LN	Ms=4.9		12.0	1.5
WMQ	32.8	350	EP	06 28 25.0	− 0.8		
			S	06 33 52.0	11.3		
BJI	34.0	29	EP	06 28 34.0	− 2.3		
			LN	Ms=4.9		15.0	0.8
			LE			15.0	1.5
DL2	36.1	36	EP	06 28 54.6	0.4		
			ES	06 34 33.0	1.0		
			LN	Ms=5.0		12.0	1.0
			LE			13.0	1.3
CN2	41.5	33	PD	06 29 38.4	− 0.9		
			AP	06 29 47.0	− 0.3		
			EPP	06 31 19.0	0.6		
			ES	06 35 53.0	− 0.7		
			S_m N			6.0	0.8
			XS	06 36 06.0	− 0.8		
			LN	Ms=5.1		13.0	1.3

1984 4 13

O=09 50 12.8 +/− 0.17 SEC
LAT=11.85 N +/− 2.88 KM
LONG=95.05 E +/− 3.03 KM
DEPTH=32 KM +/− 1.25 KM
Ms(CHINA)=5.0/20, Msz(NEIS)=6.0, mb(NEIS)=5.4
STATIONS USED=79, STAND DEV=3.72 SEC

KMI	15.1	27	EP	09 53 49.0	3.4		
			AP	09 53 54.0	1.5		
			XP	09 53 59.0	1.9		
			ES	09 56 43.0	10.5		
			LN			3.0	4.1
QZN	15.9	61	EP	09 54 01.0	4.5		
LSA	18.1	349	P	09 54 24.8	0.3		
GYA	18.2	35	P	09 54 26.5	1.6		
			AP	09 54 33.0	0.8		
			S	09 57 50.0	6.0		
			LN	Ms=5.0		13.0	3.0
			LE			13.0	3.8
CD2	20.6	21	IPD	09 54 52.0	− 0.2		
			XP	09 55 02.0	− 2.8		
			ES	09 58 38.0	1.9		
			LE	Ms=5.2		10.0	5.8
GZH	20.7	54	PC	09 54 53.0	0.0		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	09 58 34.0	− 3.7		
			S_mN			8.0	1.1
			S_mE			7.0	0.9
			LN	Ms=4.9		14.0	1.8
			LE			14.0	3.1
LZH	25.4	16	IPD	09 55 40.0	0.5		
			P_mZ			1.8	0.4
			XS	10 00 15.0	− 1.2		2
			LE	Ms=5.0		10.0	2.3
XAN	25.5	27	PD	09 55 39.0	− 0.9		
			AP	09 55 46.5	− 2.1		
			XP	09 55 50.5	− 2.1		
			S	10 00 05.0	2.3		
			LN	Ms=5.0		11.0	2.4
QZH	25.8	56	EP	09 55 42.2	− 0.8		
			LN	Ms=4.9		13.0	1.5
			LE			14.0	1.7
GTA	27.8	7	IPD	09 56 02.4	1.1		
			P_mZ			2.0	- 0.3
			LE	Ms=4.7		11.0	1.1
NJ2	29.7	43	PC	09 56 19.4	0.7		
			AP	09 56 26.6	− 1.1		
			ES	10 01 17.0	5.3		
			LN	Ms=5.1		9.5	2.0
TIY	30.1	28	EP	09 56 22.0	0.0		
			S	10 01 14.0	− 3.6		
			LN	Ms=5.4		11.0	2.6
			LE			11.0	4.1
SSE	30.8	47	EP	09 56 28.8	0.5		
			PCP	09 59 25.1	0.5		
			S	10 01 35.0	6.2		
			LN	Ms=5.0		12.0	2.3
TIA	31.4	35	PD	09 56 32.8	− 0.6		
			PCP	09 59 34.0	7.9		
			LN	Ms=5.0		14.0	1.4
			LE			14.0	1.7
BTO	31.5	22	P	09 56 33.9	− 0.8		
			EXS	10 01 52.0	− 3.0		
			LN	Ms=5.0		11.0	1.3
			LE			11.0	1.2
HHC	32.3	23	PR	09 56 42.0	0.2		
WMQ	32.5	350	PD	09 56 43.0	− 0.1		
			AP	09 56 51.0	− 0.9		
			ES	10 02 00.0	4.9		
			XS	10 02 12.0	2.1		
			SCP	10 03 09.0	− 0.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	33.7	29	EP	09 56 54.0	0.4		
			P_mZ			4.0	0.3
			LN	Ms=4.8		11.0	0.6
			LE			11.5	0.9
DL2	35.8	36	PR	09 57 12.0	0.2		
			AP	09 57 19.5	− 1.4		
			ES	10 02 48.0	1.2		
			LN	Ms=5.1		11.0	1.2
			LE			11.0	1.2
SNY	38.9	34	PD	09 57 37.4	0.0		
			AP	09 57 45.0	− 1.5		
			ES	10 03 36.5	3.0		
			LN	Ms=5.0		17.0	1.1
			LE			17.0	1.4
CN2	41.2	33	IPD	09 57 57.0	0.2		
			P_mZ			3.0	0.4
			AP	09 58 04.5	− 1.4		
			ES	10 04 11.0	2.5		
			S_mN			5.0	0.5
			S_mE			13.0	1.3
MDJ	44.1	35	EP	09 58 20.0	0.1		

1984 4 13
O=11 08 31.4 +/− 0.07 SEC
LAT=26.83 S +/− 1.59 KM
LONG=67.17 E +/− 1.77 KM
DEPTH=9 KM +/− 0.73 KM
mb(NEIS)=5.2
STATIONS USED=31, STAND DEV=0.96 SEC

LSA	60.7	23	EP	11 18 47.2	0.6		
KMI	62.0	36	IPD	11 18 55.5	0.4		
GYA	65.2	38	P	11 19 16.0	− 0.1		
CD2	67.2	33	PD	11 19 28.6	− 0.2		
XAN	72.3	35	P	11 19 59.4	− 0.8		
GTA	72.6	25	PD	11 20 02.0	0.2		
WMQ	72.8	15	IPD	11 20 02.4	− 0.5		
NJ2	76.5	43	EP	11 20 24.2	0.0		
TIY	77.0	35	P	11 20 27.0	0.0		
BTO	78.0	31	EP	11 20 33.0	0.3		
TIA	78.4	39	PD	11 20 33.9	− 0.9		
BJI	80.6	35	EP	11 20 47.0	0.1		
CN2	88.2	38	PC	11 21 24.0	− 1.2		

1984 4 13
O=12 27 48.4 +/− 0.20 SEC
LAT=21.27 N +/− 3.31 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LONG = 121.39 E			**+/− 3.58 KM**				
DEPTH = 17 KM			**+/− 1.48 KM**				
Ms (CHINA) = 3.7/5, mb (NEIS) = 4.8, ML (CHINA) = 4.0/7							
STATIONS USED = 50, STAND DEV = 3.43 SEC							
QZH	4.5	325	EPN	12 28 56.8	− 0.5		
			SN	12 29 45.4	− 4.4		
			S_mN	ML = 4.0		0.8	0..2
			S_mE			1.1	0..3
GZH	7.7	285	IPNR	12 29 40.0	− 2.3		
			LE	Ms = 3.7		13.0	0.7
SSE	9.8	358	EP	12 30 13.7	1.9		
NJ2	11.0	348	EP	12 30 27.2	− 0.9		
			LE	Ms = 3.6		12.0	0.4
QZN	11.1	260	EP	12 30 26.0	− 3.4		
GYA	14.4	293	P	12 31 16.0	1.7		
TIA	15.3	346	EP	12 31 27.8	1.5		
XAN	16.8	321	EP	12 31 45.8	0.6		
TIY	18.1	336	P	12 32 03.7	2.1		
			LN	Ms = 3.9		11.0	0.4
CD2	18.5	304	P	12 32 06.8	0.7		
BJI	19.2	347	EP	12 32 12.5	− 2.3		
LZH	21.3	317	IPD	12 32 37.5	0.7		
			P_mZ			2.0	0.09
BTO	21.6	335	EP	12 32 39.2	− 0.4		
			LN	Ms = 4.1		12.0	0.3
			LE			12.0	0.3
CN2	22.7	7	EP	12 32 49.6	− 1.5		
MDJ	24.3	14	EP	12 33 07.0	1.0		
GTA	25.8	319	P	12 33 21.4	0.1		
WMQ	35.9	316	EP	12 34 50.5	0.6		

1984 4 13

O = 12 51 05.8	**+/− 0.63 SEC**	
LAT = 43.42 N	**+/− 1.90 KM**	
LONG = 146.86 E	**+/− 3.29 KM**	
DEPTH = 46 KM	**+/− 4.97 KM**	
mb (NEIS) = 5.0		
STATIONS USED = 28, STAND DEV = 1.30 SEC		
MDJ	12.5	281	EP	12 54 04.0	0.4		
CN2	15.5	278	EP	12 54 40.4	− 2.8		
SNY	17.2	272	PD	12 55 06.6	2.1		
DL2	19.5	265	EP	12 55 30.6	− 1.4		
BJI	23.1	272	P	12 56 06.5	− 2.0		
TIA	23.9	262	EP	12 56 16.8	0.7		
TIY	26.6	269	EP	12 56 45.6	3.1		
BTO	27.4	276	EP	12 56 51.0	1.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GTA	35.1	279	EP	12 57 58.0	0.4		
CD2	36.2	264	EP	12 58 06.0	− 0.2		
WMQ	42.0	291	EP	12 58 55.0	0.1		

1984 4 13

O = 16 18 24.6	**+/− 0.13 SEC**	
LAT = 11.59 N	**+/− 2.15 KM**	
LONG = 126.02 E	**+/− 2.72 KM**	
DEPTH = 25 KM	**+/− 1.10 KM**	
mb (NEIS) = 5.1		
STATIONS USED = 47, STAND DEV = 2.04 SEC		
SSE	19.9	347	IPD	16 22 58.8	− 1.2		
			P_mN			1.2	0.06
			P_mZ			1.2	0.08
			ES	16 26 41.0	5.4		
NJ2	21.4	343	PD	16 23 14.6	1.6		
			XP	16 23 25.2	0.7		
GYA	23.5	311	P	16 23 35.8	2.2		
			AP	16 23 45.0	3.8		
			S	16 27 51.0	8.6		
KMI	25.8	304	PC	16 23 56.0	− 0.2		
XAN	27.3	327	P	16 24 06.8	− 2.5		
CD2	28.2	316	EP	16 24 17.6	− 0.1		
TIY	28.7	337	EP	16 24 22.8	0.2		
			LN			11.0	0.3
BJI	29.6	344	EP	16 24 30.5	− 0.2		
SNY	30.2	356	EP	16 24 35.9	0.3		
LZH	31.6	324	PC	16 24 47.5	− 0.4		
			P_mZ			2.0	0.06
HHC	31.8	338	EP	16 24 50.0	0.0		
CN2	32.1	359	EP	16 24 54.8	2.4		
BTO	32.2	336	EP	16 24 52.0	− 1.0		
MDJ	33.1	4	EP	16 24 57.0	− 3.7		
GTA	36.2	324	PC	16 25 28.2	0.6		
			PCP	16 27 53.0	0.6		
			SCP	16 31 38.8	3.1		
LSA	37.1	304	P	16 25 35.4	− 0.1		
WMQ	46.0	321	IPC	16 26 49.0	0.3		

1984 4 13

O = 19 08 07.9	**+/− 0.12 SEC**	
LAT = 44.11 N	**+/− 1.44 KM**	
LONG = 149.09 E	**+/− 3.12 KM**	
DEPTH = 32 KM	**+/− 1.20 KM**	
mb (NEIS) = 4.8		
STATIONS USED = 29, STAND DEV = 1.21 SEC		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CN2	17.0	277	PD	19 12 05.8	0.6		
BJI	24.7	271	EP	19 13 27.0	− 0.4		
TIA	25.5	263	EP	19 13 36.0	0.2		
NJ2	26.5	253	PC	19 13 47.8	3.0		
TIY	28.3	269	EP	19 14 04.0	3.3		
BTO	28.9	276	EP	19 14 06.4	− 0.1		
XAN	32.5	265	EP	19 14 36.5	− 1.6		
LZH	35.2	272	PD	19 15 01.5	0.2		
GTA	36.6	280	P	19 15 14.1	0.5		
CD2	37.8	265	EP	19 15 23.9	0.1		
GYA	38.4	256	EP	19 15 27.0	− 1.3		
KMI	42.0	258	EP	19 15 57.5	− 0.7		
WMQ	43.3	291	PD	19 16 09.5	0.8		

1984 4 13
O = 20 31 19.9 +/− 0.29 SEC
LAT = 11.72 N +/− 1.10 KM
LONG = 125.98 E +/− 1.85 KM
DEPTH = 105 KM +/− 2.28 KM
mb(NEIS) = 4.8
STATIONS USED = 19, STAND DEV = 0.99 SEC

SSE	19.8	347	EP	20 35 44.4	0.0		
NJ2	21.3	343	EP	20 35 57.6	− 1.9		
GYA	23.4	311	P	20 36 21.8	1.7		
KMI	25.7	304	EP	20 36 41.5	− 1.0		
XAN	27.1	327	EP	20 36 53.6	− 1.8		
BJI	29.5	344	EP	20 37 15.5	− 1.2		
GTA	36.0	324	P	20 38 13.6	0.2		
			PCP	20 40 38.3	1.2		
LSA	37.0	304	EP	20 38 21.4	− 0.1		
WMQ	45.9	321	P	20 39 34.6	0.3		

1984 4 13
O = 21 14 45.8 +/− 0.08 SEC
LAT = 8.04 S +/− 1.15 KM
LONG = 150.39 E +/− 1.54 KM
DEPTH = 30 KM +/− 0.62 KM
mb(NEIS) = 5.1
STATIONS USED = 21, STAND DEV = 0.87 SEC

QZN	48.2	304	EP	21 23 25.8	0.0		
NJ2	50.0	324	PC	21 23 40.6	1.1		
CN2	56.3	338	EP	21 24 26.0	− 0.8		
XAN	57.4	319	EP	21 24 33.0	− 1.5		
CD2	59.1	313	EP	21 24 46.0	− 0.4		
LZH	62.0	318	EP	21 25 05.0	− 0.9		
			AP	21 25 16.0	1.2		
GTA	66.5	319	P	21 25 34.9	− 0.4		
LSA	68.2	306	EP	21 25 43.2	− 3.0		

1984 4 13
O = 22 05 07.8 +/− 0.25 SEC
LAT = 5.60 S +/− 1.29 KM
LONG = 148.38 E +/− 1.54 KM
DEPTH = 168 KM +/− 1.98 KM
mb(NEIS) = 5.8
STATIONS USED = 93, STAND DEV = 1.17 SEC

QZH	42.0	317	PU	22 12 44.0	− 0.1		
			P_mN			6.0	0.5
			P_mE			6.0	0.7
			P_mZ			6.0	1.8
			XP	22 13 44.0	4.2		
			IS	22 18 51.0	1.2		
			S_mN			8.0	1.7
			S_mE			8.0	1.0
GZH	44.5	311	P	22 13 06.2	1.4		.7
			P_mZ			8.0	1.3
			S	22 19 30.0	2.8		
			S_mZ			7.0	1.6
			S_mE			6.0	1.1
			XS	22 20 35.5	3.6		
SSE	44.8	326	PC	22 13 07.0	0.2		
			P_mN			0.8	0.03
			P_mE			0.8	0.3
			P_mZ			0.8	0.09
			AP	22 13 48.0	4.4		
			PP	22 14 56.0	2.0		
			ES	22 19 31.0	0.3		
			XS	22 20 36.0	0.5		
			LE			20.0	4.0
QZN	45.2	303	PU	22 13 11.0	1.3		
			P_mZ			7.0	0.7
			AP	22 13 48.5	2.0		
			XP	22 14 10.5	4.8		
			PP	22 14 56.0	− 2.1		
			S	22 19 35.0	− 1.0		
			LN			13.0	0.5
			LE			15.0	1.8
NJ2	46.8	324	IPC	22 13 24.3	1.5		
			P_mZ			5.5	2.2
			XP	22 14 21.0	2.1		
			PP	22 15 18.0	3.4		
			SCP	22 18 28.6	− 0.3		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			IS	22 20 04.5	4.9		
			S_m N			7.5	1.4
			S_m E			6.0	1.6
DL2	50.7	333	P	22 13 53.0	0.1		
			P_m Z			6.0	1.5
			AP	22 14 33.0	2.5		
			XP	22 14 52.0	2.6		
			S	22 20 56.0	1.8		
			S_m N			6.0	0.7
			S_m E			6.0	0.8
			XS	22 22 04.0	3.9		
			SS	22 24 36.0	8.1		
			LN			17.0	1.5
TIA	50.9	327	PC	22 13 53.8	− 0.1		
			P_m N			5.0	0.6
			P_m E			5.0	0.7
			P_m Z			6.0	1.6
			AP	22 14 36.0	4.5		
			XP	22 14 53.0	2.6		
			PP	22 15 51.0	− 1.7		
			SCP	22 18 46.0	0.0		
			S	22 20 54.0	− 2.0		
			S_m N			10.0	0.9
			S_m E			8.0	1.3
			EXS	22 22 03.5	1.6		
			ESS	22 24 28.0	− 2.0		
			LN			18.0	2.3
			LE			18.0	3.5
GYA	51.5	310	P	22 13 58.6	0.2		
			AP	22 14 39.0	3.0		
			S	22 21 07.0	2.7		
			S_m E			8.0	1.1
SNY	52.4	336	IPU	22 14 05.0	0.1		
			P_m Z			7.0	2.3
			AP	22 14 42.0	− 0.8		
			XP	22 15 01.0	− 0.6		
			PP	22 16 05.0	− 1.1		
			IS	22 21 19.0	2.9		
			LN			14.0	1.1
			LE			11.0	0.6
MDJ	52.8	343	IP	22 14 07.8	− 0.2		
			P_m Z			5.0	2.4
			AP	22 14 43.0	− 2.9		
			XP	22 15 03.0	− 1.8		
			S	22 21 24.0	2.2		
			S_m E			7.0	0.9
			XS	22 22 30.0	1.8		
			SS	22 24 60.0	− 0.7		
CN2	53.4	339	IPC	22 14 12.2	− 0.2		
			P_m Z			5.0	2.3
			AP	22 14 49.0	− 1.3		
			XP	22 15 09.0	− 0.2		
			SCP	22 18 56.0	− 0.7		
			ES	22 21 30.0	0.2		
			S_m N			7.0	0.7
			S_m E			7.0	0.6
KMI	53.9	306	IPC	22 14 16.5	0.3		
			AP	22 14 56.0	2.0		
			XP	22 15 16.0	3.2		
			S	22 21 40.0	3.2		
			S_m N			8.0	0.9
			SS	22 25 19.0	1.0		
BJI	54.2	329	EP	22 14 18.5	− 0.3		
			AP	22 14 56.0	− 0.8		
			PCP	22 15 17.0	− 3.2		
			ES	22 21 42.5	1.0		
			XS	22 22 51.0	2.9		
			LN			15.5	1.2
			LE			17.0	1.1
XAN	54.3	319	IPC	22 14 18.4	− 0.6		
			P_m Z			7.0	1.1
			AP	22 14 55.0	− 2.0		
			XP	22 15 18.5	2.7		
			S	22 21 36.5	− 5.5		
			S_m N			9.0	1.1
			S_m E			12.0	0.9
			XS	22 22 47.5	− 0.9		
TIY	54.6	325	P	22 14 21.0	− 0.2		
			P_m Z			6.0	1.5
			PCP	22 15 20.0	− 1.4		
			S	22 21 43.0	− 2.9		
			S_m N			8.0	0.7
			XS	22 22 57.0	4.6		
			LN			15.0	1.1
			LE			18.0	2.5
CD2	56.0	313	EP	22 14 30.9	− 0.6		
			AP	22 15 08.5	− 1.3		
			ES	22 22 05.0	− 0.1		
			S_m N			7.5	1.6
HHC	57.3	327	PU	22 14 40.5	0.2		
			P_m Z			6.0	1.6
			PCP	22 15 25.0	− 6.8		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			XP	22 15 42.0	4.7		
			S	22 22 25.5	4.1		
			S_mN			7.0	0.8
			LN			16.0	1.2
BTO	57.9	326	IPU	22 14 45.0	0.0		
			P_mZ			7.0	2.1
			AP	22 15 27.0	3.5		
			XP	22 15 44.0	1.9		
			PP	22 16 52.0	− 4.2		
			S	22 22 32.0	1.8		
			XS	22 23 42.0	4.7		
LZH	58.8	318	EP	22 14 50.9	− 0.6		
			AP	22 15 30.7	0.7		
			ES	22 22 45.0	2.8		
			XS	22 23 49.0	− 0.3		
			LE			26.0	4.3
GTA	63.3	319	P	22 15 21.5	− 0.2		
			AP	22 16 00.0	− 0.7		
			IS	22 23 42.0	2.8		
			XS	22 24 51.0	3.8		
			LE			16.0	0.6
LSA	65.1	306	P	22 15 33.4	− 0.3		
			S	22 24 02.2	0.4		
			S_mN			8.0	0.6
WMQ	73.4	318	IPC	22 16 23.0	− 0.9		
			P_mZ			6.0	1.3
			AP	22 17 09.0	5.0		
			S	22 25 39.0	0.8		
			S_mN			8.0	1.1
			LN			20.0	1.5
KSH	80.1	311	EP	22 17 03.0	1.6		
			S	22 26 56.0	5.0		

1984 4 14
O = 00 40 53.1 +/− 1.29 SEC
LAT = 25.36 N +/− 3.84 KM
LONG = 128.20 E +/− 4.31 KM
DEPTH = 1 KM +/− 10.09 KM
mb(NEIS) = 4.8
STATIONS USED = 25, STAND DEV = 2.29 SEC

TIY	18.2	316	EP	00 45 11.0	2.0		
CN2	18.5	353	P	00 45 13.0	− 0.1		
XAN	18.8	301	EP	00 45 15.6	− 1.1		
CD2	22.2	289	EP	00 45 52.2	− 1.0		
KMI	23.0	274	EP	00 46 02.5	1.3		
LZH	23.4	302	EP	00 46 05.5	0.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GTA	27.6	307	P	00 46 42.7	− 2.0		
WMQ	37.6	309	EP	00 48 10.5	− 1.5		

1984 4 14
O = 00 47 05.3 +/− 0.69 SEC
LAT = 33.14 N +/− 3.52 KM
LONG = 131.94 E +/− 4.52 KM
DEPTH = 104 KM +/− 5.38 KM
mb(NEIS) = 4.8
STATIONS USED = 40, STAND DEV = 3.58 SEC

SSE	9.3	260	PD	00 49 18.2	− 0.5		
			P_mZ			1.0	0.03
SNY	10.9	324	EP	00 49 41.4	1.7		
NJ2	11.1	267	EP	00 49 42.0	− 0.1		
CN2	11.8	336	EP	00 49 52.6	1.2		
TIA	12.6	288	PD	00 50 01.9	0.1		
TIY	16.5	291	EP	00 50 51.0	− 1.4		
BTO	19.0	299	EP	00 51 21.0	− 0.9		
GZH	19.2	243	EP	00 51 22.5	− 1.1		
XAN	19.2	279	EP	00 51 22.0	− 1.7		
GYA	22.9	259	P	00 52 00.8	− 0.2		
LZH	23.3	285	EP	00 52 04.0	− 0.8		
			P_mZ			1.5	0.08
CD2	24.0	272	IPD	00 52 11.4	0.1		
GTA	26.5	292	P	00 52 33.0	− 2.8		
KMI	26.7	260	EP	00 52 37.0	0.1		
			ES	00 57 02.5	− 0.4		
WMQ	35.9	300	P	00 53 55.0	− 2.3		

1984 4 14
O = 05 33 32.2 +/− 0.36 SEC
LAT = 32.06 N +/− 1.37 KM
LONG = 132.04 E +/− 1.97 KM
DEPTH = 45 KM +/− 2.77 KM
mb(NEIS) = 4.5
STATIONS USED = 12, STAND DEV = 1.86 SEC

SSE	9.3	266	PD	05 35 46.5	− 0.3		
NJ2	11.2	273	EP	05 36 13.7	1.2		
CN2	12.8	337	EP	05 36 34.5	0.1		
CD2	24.1	274	(P)	05 38 43.8	− 1.4		

1984 4 14
O = 06 03 03.3 +/− 0.37 SEC
LAT = 43.09 N +/− 1.09 KM
LONG = 145.45 E +/− 1.54 KM
DEPTH = 54 KM +/− 2.88 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
mb(NEIS)=4.7							
STATIONS USED=24, STAND DEV=0.73 SEC							
MDJ	11.6	283	EP	06 05 48.0	− 0.3		
CN2	14.5	279	P	06 06 28.2	0.3		
TIA	22.8	262	PD	06 08 01.8	− 0.8		
NJ2	23.7	251	EP	06 08 12.3	1.1		
XAN	29.8	264	EP	06 09 06.8	− 0.6		
CD2	35.1	263	EP	06 09 54.2	0.2		
GYA	35.6	254	EP	06 09 57.6	− 0.3		
KMI	39.2	256	EP	06 10 28.0	− 0.2		
WMQ	41.2	291	EP	06 10 45.5	0.7		
1984 4 14							
O=06 25 50.5			**+/− 0.91 SEC**				
LAT=4.66 S			**+/− 2.95 KM**				
LONG=145.57 E			**+/− 3.96 KM**				
DEPTH=65 KM			**+/− 7.10 KM**				
mb(NEIS)=4.8							
STATIONS USED=26, STAND DEV=2.99 SEC							
NJ2	44.5	326	EP	06 33 56.6	− 0.9		
GYA	48.7	311	P	06 34 30.6	− 0.5		
KMI	51.1	307	EP	06 34 48.5	− 0.5		
CN2	51.5	341	EP	06 34 51.6	− 0.8		
XAN	51.7	320	EP	06 34 52.6	− 1.5		
CD2	53.3	314	EP	06 35 04.8	− 1.0		
LZH	56.3	319	P	06 35 25.5	− 1.9		
			$P_m Z$			1.5	0.07
GTA	60.8	320	P	06 35 58.2	− 0.7		
WMQ	70.9	319	PC	06 37 02.0	− 1.1		
1984 4 14							
O=08 09 06.4			**+/− 0.32 SEC**				
LAT=14.88 S			**+/− 1.31 KM**				
LONG=167.07 E			**+/− 1.88 KM**				
DEPTH=74 KM			**+/− 2.50 KM**				
Ms(CHINA)=5.1/1, mb(NEIS)=5.2							
STATIONS USED=34, STAND DEV=1.27 SEC							
NJ2	65.6	315	PD	08 19 45.0	− 0.7		
MDJ	68.3	332	EP	08 20 01.5	− 1.0		
CN2	69.7	329	IPC	08 20 09.6	− 1.2		
GYA	71.6	304	P	08 20 23.0	0.2		
TIY	73.2	317	IPD	08 20 32.8	0.6		
XAN	73.6	312	PC	08 20 34.2	− 0.4		
KMI	74.2	301	IPC	08 20 38.5	0.4		
			ES	08 30 08.5	3.3		
			LE	Ms=5.1		16.0	0.8
CD2	75.9	307	EP	08 20 48.6	0.8		
LZH	78.3	312	EP	08 21 00.5	− 0.5		
GTA	82.6	313	P	08 21 24.8	0.7		
WMQ	92.7	314	P	08 22 12.0	− 0.5		
1984 4 14							
O=19 41 20.7			**+/− 1.43 SEC**				
LAT=16.59 N			**+/− 4.32 KM**				
LONG=87.50 E			**+/− 5.29 KM**				
DEPTH=32 KM			**+/− 11.16 KM**				
mb(NEIS)=5.0							
STATIONS USED=25, STAND DEV=3.34 SEC							
LSA	13.5	13	P	19 44 30.9	− 1.8		
KMI	16.6	56	EP	19 45 13.0	0.4		
			ES	19 48 17.0	1.9		
GYA	20.3	57	P	19 45 56.0	− 1.2		
CD2	20.6	43	EP	19 45 58.6	− 1.0		
LZH	24.3	33	P	19 46 58.5	2.2		
GTA	25.2	22	IPD	19 46 47.2	2.3		
XAN	25.9	43	P	19 46 51.6	− 0.5		
WMQ	27.1	0	P	19 47 05.9	2.5		
BJI	34.1	41	EP	19 48 06.0	0.9		
CN2	42.0	41	P	19 49 10.5	− 0.4		
1984 4 14							
O=19 57 34.3			**+/− 0.09 SEC**				
LAT=2.50 N			**+/− 1.32 KM**				
LOUG=126.66 E			**+/− 1.78 KM**				
DEPTH=16 KM			**+/− 0.71 KM**				
Ms(CHINA)=4.6/13, mb(NEIS)=5.2							
STATIONS USED=81, STAND DEV=1.04 SEC							
QZN	23.3	316	EP	20 02 43.0	0.7		
			ES	20 06 47.0	− 3.1		
			LN	Ms=4.6		10.0	0.
			LE			10.0	0.9
QZH	23.6	341	EP	20 02 47.2	1.3		
			ES	20 06 56.0	− 0.6		
			SS	20 07 46.0	2.1		
			LN	Ms=4.9		28.0	6.2
GZH	24.2	328	PU	20 02 53.0	1.6		
			ES	20 07 08.0	1.6		
			$S_m N$			8.0	1.2
SSE	28.9	350	EP	20 03 36.0	0.9		
			$P_m Z$			1.0	0.03
			S	20 08 21.0	− 2.9		
NJ2	30.3	346	PD	20 03 48.0	0.5		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			AP	20 03 54.8	0.8		
			ES	20 08 45.0	− 1.0		
			LE	Ms=4.2		8.0	0.2
GYA	30.6	322	P	20 03 51.0	0.7		
KMI	32.2	316	PD	20 04 04.5	− 0.1		
			AP	20 04 08.5	− 2.2		
			PCP	20 06 54.5	2.2		
			ES	20 09 16.0	− 0.4		
			LE	Ms=4.9		20.0	2.4
TIA	34.7	346	EP	20 04 25.7	− 0.1		
			ES	20 09 46.0	− 8.5		
			SCP	20 10 43.2	0.5		
			S_m N			9.0	0.6
			LN	Ms=4.6		12.0	0.7
XAN	35.5	334	EP	20 04 31.4	− 1.3		
			S	20 10 03.0	− 3.9		
CD2	35.6	324	EP	20 04 33.1	− 0.5		
			ES	20 10 03.0	− 5.7		
DL2	36.5	353	EP	20 04 42.0	0.6		
			ES	20 10 21.0	− 1.9		
			LN	Ms=4.6		12.0	0.4
			LE			12.0	0.4
TIY	37.4	341	EP	20 04 48.2	− 0.7		
			LN	Ms=4.6		16.0	0.8
BJI	38.6	347	EP	20 04 58.5	0.0		
			ES	20 10 51.0	− 2.9		
SNY	39.2	356	PU	20 05 04.5	0.2		
			S	20 11 05.0	0.6		
			LN	Ms=4.8		30.0	1.5
			LE			26.0	1.1
LZH	39.5	330	IPD	20 05 07.0	0.2		
			P_m Z			1.4	0.2
HHC	40.5	342	EP	20 05 15.1	0.0		
BTO	40.8	340	EP	20 05 15.4	− 1.9		
CN2	41.1	358	EP	20 05 19.4	− 0.5		
			AP	20 05 25.0	− 1.4		
			S	20 11 28.0	− 4.7		
			ESS	20 14 20.0	− 9.9		
			LE	Ms=4.5		15.0	0.5
MDJ	42.0	3	EP	20 05 26.5	− 0.6		
			AP	20 05 32.4	− 1.2		
			XP	20 05 35.5	− 1.4		
			ES	20 11 43.0	− 2.8		
			XS	20 11 52.5	− 4.0		
LSA	43.2	312	P	20 05 36.9	− 0.4		
			ES	20 12 00.9	− 3.0		
GTA	44.1	329	P	20 05 43.5	− 0.9		
			PP	20 07 28.0	− 0.2		
			PCP	20 07 31.1	2.1		
			SCP	20 11 20.7	1.8		
			ES	20 12 12.0	− 4.6		
			SCS	20 15 40.5	1.4		
			LN	Ms=4.9		18.5	1.0
			LE			18.0	0.8
WMQ	53.7	325	IPC	20 06 59.0	0.7		
			P_m Z			1.7	0.06
			SCP	20 12 00.0	0.8		
			ES	20 14 25.5	− 5.2		
			SCS	20 16 47.0	4.1		

1984 4 14
O=20 55 58.2 +/− 0.71 SEC
LAT=6.88 N +/− 2.18 KM
LONG=72.97 W +/− 2.79 KM
DEPTH=147 KM +/− 5.53 KM
mb(NEIS)=4.9
STATIONS USED=13, STAND DEV=1.70 SEC

GTA	133.5	7	PKP	21 15 00.0	1.5
GYA	146.9	0	PKP	21 15 24.6	2.3
KMI	147.9	7	EPKP	21 15 29.0	3.8

1984 4 15
O=03 17 09.0 +/− 0.43 SEC
LAT=49.92 N +/− 5.14 KM
LONG=78.22 E +/− 12.35 KM
DEPTH=6 KM +/− 4.74 KM
Ms(CHINA)=4.4/4, mb(NEIS)=5.7
STATIONS USED=51, STAND DEV=3.55 SEC

WMQ	8.9	129	IPC	03 19 20.5	− 1.0	
			LG_1	03 21 52.3	3.6	
			LN		3.0	5.8
GTA	18.5	116	IPC	03 21 29.2	0.5	
			LE	Ms=4.1	6.0	0.3
LSA	22.4	149	EP	03 22 12.0	1.0	
LZH	23.1	116	IPC	03 22 18.5	1.0	
			P_m Z		1.5	0.2
			ES	03 26 28.0	2.5	
BTO	24.1	100	IPU	03 22 29.0	2.3	
			LN	Ms=4.4	8.0	0.4
			LE		8.0	0.4
CD2	27.0	125	IPC	03 22 55.0	1.3	
TIY	27.3	103	P	03 22 58.0	1.3	

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	03 27 37.0	3.8		
			LN	Ms=4.3		9.0	0.2
			LE			6.0	0.2
XAN	27.5	113	PC	03 22 59.5	0.5		
			ES	03 27 43.0	3.7		
BJI	28.3	95	EP	03 23 07.5	1.4		
KMI	31.2	133	IPC	03 23 31.5	− 0.5		
SNY	32.2	86	PC	03 23 40.3	0.1		
CN2	32.4	82	IPC	03 23 43.0	0.6		
			PCP	03 26 29.5	0.2		
MDJ	34.7	78	EP	03 24 01.5	− 0.5		
NJ2	35.0	105	IPC	03 24 05.6	1.2		
			IPCP	03 26 37.0	0.6		
SSE	37.1	104	PC	03 24 23.0	0.8		
			P_mZ			0.5	0.06
GZH	38.3	121	EP	03 24 34.0	1.1		
QZN	39.8	129	IP	03 24 46.0	0.7		

1984 4 15

O=04 56 43.5 +/− 0.41 SEC
LAT=31.73 N +/− 1.29 KM
LONG=82.25 E +/− 1.35 KM
DEPTH=27 KM +/− 3.20 KM
Ms(CHINA)=4.3/8, Msz(NEIS)=4.4, mb(NEIS)=5.0
STATIONS USED=40, STAND DEV=1.19 SEC

LSA	7.9	102	PN	04 58 41.8	1.4		
			SN	05 00 12.0	1.4		
			LN	Ms=4.2		10.0	1.8
KSH	9.2	328	EP	04 58 59.0	0.6		
			LN	Ms=4.8		10.0	5.9
WMQ	12.8	18	EP	04 59 46.5	− 0.6		
			AP	04 59 57.0	3.7		
			ES	05 02 10.5	0.4		
			LE	Ms=4.1		9.0	0.7
GTA	16.2	56	EP	05 00 32.0	0.6		
			LN	Ms=4.3		9.0	0.8
CD2	18.4	86	EP	05 00 59.0	0.3		
LZH	18.4	70	EP	05 00 59.5	0.1		
KMI	19.2	104	EP	05 01 07.0	− 1.2		
			ES	05 04 34.0	− 4.0		
			LN	Ms=4.0		12.0	0.4
GYA	22.0	97	P	05 01 37.8	0.5		
			S	05 05 33.0	− 0.6		
XAN	22.5	76	EP	05 01 41.4	− 1.2		
			ES	05 05 42.0	− 1.4		
			LE	Ms=4.3		10.0	0.6
BTO	24.0	60	E(P)	05 02 02.0	4.4		
TIY	25.5	68	EP	05 02 12.1	0.8		
			LN	Ms=4.3		10.0	0.4
			LE			10.0	0.3
DL2	32.7	66	EP	05 03 16.0	− 0.6		
CN2	35.8	57	P	05 03 43.4	0.1		
			ES	05 09 18.0	− 0.9		
			LN	Ms=4.7		13.0	0.9

1984 4 15

O=07 34 11.0 +/− 0.72 SEC
LAT=42.99 N +/− 3.55 KM
LONG=131.43 E +/− 4.16 KM
DEPTH=561 KM +/− 5.64 KM
mb(NEIS)=5.0
STATIONS USED=78, STAND DEV=0.79 SEC

MDJ	2.1	321	IPC	07 35 22.0	− 0.7		
			P_mZ			2.0	1.8
			IS	07 36 19.0	− 0.6		
			S_mN			4.0	8.0
			SCP	07 44 18.5	1.1		
			SCS	07 47 50.0	1.7		
CN2	4.4	282	IPC	07 35 36.5	− 1.2		
			P_mE			5.0	1.9
			P_mZ			5.0	2.7
			S	07 36 40.5	− 5.9		
			S_mE			7.0	1.9
			SCS	07 47 50.0	0.3		
SNY	5.9	261	IPC	07 35 49.6	− 0.7		
			P_mZ			2.0	2.4
			IS	07 37 02.5	− 6.7		
			SCS	07 47 53.0	1.8		
DL2	8.5	244	IPU	07 36 13.8	− 0.7		
			P_mN			2.0	0.6
			P_mE			2.0	0.5
			P_mZ			2.0	1.1
			ES	07 37 51.5	− 1.5		
			S_mN			4.0	1.7
			S_mE			4.8	1.0
BJI	11.8	260	EP	07 36 47.0	− 1.2		
			ES	07 38 54.0	− 0.5		
			S_mN			7.0	1.7
			S_mE			8.0	2.5
			SCS	07 48 03.0	2.2		
TIA	12.9	243	PD	07 36 59.1	− 0.5		
			S	07 39 16.3	1.3		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SCP	07 44 30.0	2.4		
			S_m N			4.0	2.2
			S_m E			5.0	3.0
			SCS	07 48 05.8	2.5		
SSE	14.4	217	P	07 37 13.6	− 0.5		
			P_m Z			1.0	0.04
			S	07 39 40.5	− 1.1		
NJ2	14.8	226	PD	07 37 17.4	− 0.4		
			S	07 39 50.0	1.6		
			S_m E			8.0	1.0
			SCP	07 44 33.2	2.4		
HHC	14.9	268	IPD	07 37 20.0	0.3		
			S	07 39 55.0	3.2		
TIY	15.4	256	IPD	07 37 24.9	0.7		
			P_m Z			0.8	0.2
			XP	07 39 27.0	− 0.3		
			S	07 40 04.5	4.6		
			S_m E			8.0	1.6
BTO	16.1	268	IPR	07 37 31.5	0.1		
			EXP	07 39 37.0	− 0.4		
			S	07 40 15.0	1.9		
XAN	19.7	250	IPD	07 38 04.8	− 0.4		
			S	07 41 22.0	8.4		
			S_m N			6.0	0.4
			S_m E			10.0	0.5
LZH	22.3	261	IPD	07 38 29.5	0.3		
			P_m Z			1.8	0.6
GTA	24.0	272	IPD	07 38 44.8	0.6		
			P_m Z			1.0	0.4
			ES	07 42 23.0	− 0.1		
			ISCP	07 44 54.8	3.3		
			ISCS	07 48 42.0	3.2		
GZH	24.9	222	IPC	07 38 51.4	− 0.6		
CD2	25.1	250	IPD	07 38 53.0	− 0.7		
			P_m Z			0.8	0.09
			ES	07 42 36.0	− 4.1		
			ESCP	07 44 59.0	4.4		
GYA	26.1	238	PD	07 39 01.0	− 1.5		
			XP	07 41 34.0	− 1.7		
			S	07 42 50.0	− 5.8		
KMI	29.5	242	IPR	07 39 32.0	− 0.5		
			XP	07 42 05.5	− 2.7		
			S	07 43 45.0	− 4.6		
			SCP	07 45 12.0	4.0		
QZN	30.0	224	PC	07 39 36.9	0.0		
WMQ	31.5	286	IPD	07 39 50.5	0.9		
			P_m Z			1.5	0.2
			PCP	07 42 27.0	1.9		
			ES	07 44 20.5	0.1		
			SCP	07 45 18.0	3.3		
			SCS	07 49 14.5	0.8		
LSA	34.7	260	PD	07 40 18.0	1.2		
			XS	07 47 59.0	− 0.7		
KSH	41.2	284	PR	07 41 11.0	1.6		
			EPP	07 43 01.0	3.9		

1984 4 15
O = 09 22 39.1 +/− 0.57 SEC
LAT = 24.25 N +/− 2.39 KM
LONG = 122.22 E +/− 2.69 KM
DEPTH = 39 KM +/− 4.40 KM
Ms(CHINA) = 4.3/16, mb(NEIS) = 4.9, ML(CHINA) = 4.6/8
STATIONS USED = 51, STAND DEV = 2.65 SEC

QZH	3.4	282	IPC	09 23 29.7	− 1.1		
			S	09 24 15.5	5.3		
			S_m N	ML = 4.5		0.7	1.4
			S_m E			1.2	1.5
			LG_2	09 24 29.8	− 0.7		
			LN			2.0	7.1
			LE			2.0	2.6
SSE	6.9	352	PC	09 24 18.0	− 2.2		
			P_m Z			0.5	0.06
			LG_2	09 26 24.0	− 2.1		
			LE	Ms = 4.1		12.0	1.7
GZH	8.2	263	P	09 24 37.3	− 1.6		
			S	09 24 01.7	− 9.8		
			LN	Ms = 4.7		6.0	3.5
NJ2	8.3	339	PD	09 24 37.9	− 2.3		
			S	09 26 08.4	− 5.6		
			LE	Ms = 4.6		7.0	2.9
TIA	12.7	340	EP	09 25 37.0	− 3.2		
			ELG_2	09 29 30.5	− 7.8		
			LN	Ms = 3.9		11.0	0.5
			LE			11.0	0.4
GYA	14.2	282	P	09 26 00.2	− 0.3		
			S	09 28 37.0	− 1.3		
			LN	Ms = 4.8		5.0	1.8
DL2	14.6	358	EP	09 26 06.3	1.0		
			ES	09 28 45.7	− 1.3		
			LN	Ms = 3.9		15.0	0.6
XAN	15.2	313	EP	09 26 11.2	− 1.2		
			LN	Ms = 4.8		6.0	1.8

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			6.0	1.0
TIY	15.8	330	EP	09 26 22.0	1.1		
			ES	09 29 09.0	− 6.1		
			LN	Ms=4.2		11.0	0.4
			LE			12.0	0.7
SNY	17.6	3	EP	09 26 46.0	3.2		
			ES	09 29 56.0	0.8		
			LN	Ms=4.1		12.5	0.6
CD2	17.7	296	EP	09 26 44.0	0.0		
KMI	17.7	276	EP	09 26 48.0	2.9		
			ES	09 30 11.0	11.7		
			LN	Ms=4.6		10.0	1.5
BTO	19.2	330	EP	09 27 03.7	0.4		
			LN	Ms=4.3		12.0	0.7
			LE			12.0	0.4
CN2	19.7	6	PC	09 27 07.8	− 0.2		
			ES	09 30 37.0	− 5.5		
			LN	Ms=4.1		12.0	0.6
LZH	19.8	310	EP	09 27 09.0	0.1		
MDJ	21.2	14	EP	09 27 26.0	2.3		
GTA	24.2	313	P	09 27 55.6	1.9		
LSA	28.2	287	PD	09 28 31.7	0.9		
WMQ	34.3	313	EP	09 29 24.0	− 0.3		

1984 4 15
O=21 26 32.0 +/− 0.12 SEC
LAT=3.62 S +/− 2.21 KM
LONG=77.79 W +/− 2.54 KM
DEPTH=107 KM +/− 1.04 KM
mb(NEIS)=5.5
STATIONS USED=52, STAND DEV=1.69 SEC

CN2	135.0	336	EPKP	21 45 38.0	− 1.8		
WMQ	138.0	15	EPKP	21 45 45.5	0.1		
BJI	141.6	342	EPKP	21 45 48.0	− 3.8		
BTO	142.5	350	EPKP	21 45 51.0	− 2.5		
GTA	144.3	3	IPKP	21 45 55.8	− 0.8		
TIA	144.8	338	PKP	21 45 55.8	− 1.5		
			PP	21 49 14.5	− 3.5		
TIY	144.8	345	PKPR	21 45 57.0	− 0.4		
SSE	147.3	328	$IPKP_1$	21 46 05.0	3.4		
			PKP_mZ			1.0	0.1
			PKP_2	21 46 07.4			
LZH	147.7	357	PKPD	21 46 03.0	0.7		
			PKP_mZ			1.5	0.4
NJ2	147.7	322	PKPR	21 46 04.0	1.8		
			PP	21 49 34.0	− 1.1		
XAN	149.1	349	PKP_1	21 46 05.0	0.5		
			PKP_2	21 46 37.0			
LSA	152.0	20	PKP	21 46 11.1	1.7		
GYA	156.9	349	PKP	21 46 17.6	2.0		
			PP	21 50 26.0	− 0.1		
KMI	158.6	358	EPKP	21 46 19.0	1.1		
			PKP_2	21 46 55.0			
			PP	21 50 34.0	− 1.8		

1984 4 15
O=21 49 48.2 +/− 0.45 SEC
LAT=30.01 N +/− 1.63 KM
LONG=67.77 E +/− 1.78 KM
DEPTH=4 KM +/− 3.50 KM
Ms(CHINA)=4.7/16, Msz(NEIS)=4.9, mb(NEIS)=5.0
STATIONS USED=49, STAND DEV=1.24 SEC

KSH	11.6	33	PR	21 52 40.0	2.2		
			S	21 54 46.0	− 3.1		
			LN	Ms=5.3		11.0	15.1
LSA	20.3	84	P	21 54 29.2	0.8		
			S	21 58 16.2	4.6		
			LN	Ms=4.6		11.0	1.5
WMQ	21.0	43	P	21 54 35.0	− 0.5		
			S	21 58 34.5	9.1		
			LE	Ms=4.6		12.0	1.7
GTA	27.8	61	PC	21 55 42.3	1.0		
			ES	22 00 25.0	1.1		
			LN	Ms=4.4		12.0	0.4
			LE			12.0	0.4
LZH	30.7	69	EP	21 56 07.0	− 0.1		
CD2	31.0	79	EP	21 56 09.4	0.4		
			(S)	22 01 14.0	0.7		
			LN	Ms=4.6		12.0	0.7
KMI	31.3	90	EP	21 56 12.7	0.4		
			S	22 01 20.0	0.9		
			LN	Ms=4.4		16.0	0.7
GYA	34.3	86	P	21 56 39.0	0.4		
			S	22 02 05.0	− 1.2		
			LN	Ms=4.8		16.0	1.4
XAN	35.0	72	EP	21 56 43.0	− 0.8		
BTO	35.8	61	P	21 56 51.4	0.6		
			LN	Ms=4.6		10.0	0.4
			LE			10.0	0.4
TIY	37.6	66	EP	21 57 06.8	0.6		
			S	22 02 55.5	− 0.7		
			LN	Ms=4.6		15.0	0.7

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BJI	40.5	62	EP	21 57 30.0	0.1		
			LN	Ms=4.7		12.0	0.7
TIA	41.4	67	EP	21 57 39.1	1.0		
			ES	22 03 51.0	− 3.0		
			LN	Ms=4.5		11.0	0.3
NJ2	43.5	73	PD	21 57 55.8	1.0		
			ES	22 04 24.0	0.0		
			LN	Ms=4.7		11.0	0.5
CN2	47.2	56	EP	21 58 24.0	− 0.7		
			ES	22 05 13.0	− 4.9		
			LE	Ms=4.9		13.0	0.8
MDJ	50.1	55	EP	21 58 45.5	− 1.8		

1984 4 15
O=22 47 11.4 +/− 0.32 SEC
LAT=0.22 S +/− 1.07 KM
LONG=123.47 E +/− 1.17 KM
DEPTH=140 KM +/− 2.49 KM
mb(NEIS)=5.1
STATIONS USED=16, STAND DEV=0.89 SEC

QZN	23.3	325	EP	22 52 08.8	0.5		
GYA	31.1	329	EP	22 53 18.8	− 0.3		
KMI	32.2	322	EP	22 53 29.0	0.0		
CD2	36.2	330	EP	22 54 02.5	− 0.2		
XAN	36.7	339	EP	22 54 07.4	0.3		
LSA	42.8	316	P	22 54 58.2	0.1		
GTA	45.0	333	P	22 55 15.8	0.7		
WMQ	54.2	328	PC	22 56 25.4	− 0.1		

1984 4 16
O=00 55 44.7 +/− 0.10 SEC
LAT=36.94 N +/− 1.03 KM
LONG=141.95 E +/− 1.66 KM
DEPTH=30 KM +/− 0.36 KM
mb(NEIS)=4.8
STAIONS USED=33, STAND DEV=1.86 SEC

MDJ	12.1	313	EP	00 58 41.0	2.8		
CN2	14.3	303	EP	00 59 05.8	− 1.8		
			ES	01 01 50.0	3.6		
			LN			12.0	0.5
NJ2	19.6	262	EP	01 00 12.4	− 1.5		
TIA	19.9	275	EP	01 00 15.5	− 1.9		
BJI	20.4	286	EP	01 00 21.5	− 0.5		
XAN	27.0	273	EP	01 01 25.4	− 0.8		
GYA	31.6	260	EP	01 02 07.0	− 0.9		
CD2	32.1	270	EP	01 02 11.2	− 0.8		
KMI	35.4	261	EP	01 02 40.0	− 0.4		
WMQ	41.3	297	P	01 03 31.0	1.5		
LSA	42.6	275	EP	01 03 43.4	2.2		

1984 4 16
O=06 23 29.3 +/− 0.11 SEC
LAT=18.07 S +/− 0.44 KM
LONG=178.37 W +/− 0.45 KM
DEPTH=589 KM +/− 0.68 KM
mb(NEIS)=4.7
STATIONS USED=16, STAND DEV=0.43 SEC

MDJ	78.3	324	EP	06 34 31.2	− 0.3		
CN2	80.2	322	PC	06 34 41.0	− 0.1		

1984 4 16
O=07 45 10.8 +/− 0.26 SEC
LAT=19.25 S +/− 5.58 KM
LONG=175.99 W +/− 9.00 KM
DEPTH=236 KM +/− 1.93 KM
mb(NEIS)=4.5
STATIONS USED=4, STAND DEV=0.43 SEC

MDJ	80.6	323	EP	07 57 00.0	0.7		
CN2	82.5	321	P	07 57 09.0	− 0.1		

1984 4 16
O=09 09 40.8 +/− 0.09 SEC
LAT=23.11 N +/− 1.85 KM
LONG=121.80 E +/− 1.47 KM
DEPTH=17 KM +/− 0.71 KM
ML(CHINA)=3.9/9
STATIONS USED=24, STAND DEV=1.84 SEC

QZH	3.5	302	PND	09 10 34.3	− 0.9		
			PG	09 10 44.8	0.9		
			SN	09 11 10.5	− 5.9		
			S_mN	ML=3.5		0.3	0.1
			S_mE			0.4	0.2
GZH	7.8	271	EPN	09 11 35.0	− 1.3		
			LN			0.9	0.06
			LE			0.8	0.06
SSF	8.0	356	EP	09 11 42.0	3.1		
NJ2	9.3	344	EP	09 11 55.0	− 2.1		

1984 4 16
O=09 41 53.5 +/− 1.44 SEC
LAT=24.41 N +/− 3.25 KM
LONG=122.08 E +/− 3.57 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=10 KM +/- 8.72 KM							
Ms(CHINA)=4.4/14, mb(NEIS)=4.8, ML(CHINA)=4.7/5							
STATIONS USED=50, STAND DEV=2.35 SEC							
QZH	3.2	280	IPNC	09 42 45.0	- 0.3		
			PG	09 42 54.5	2.3		
			SG	09 43 32.8	- 1.6		
			LG_2	09 43 45.0	5.2		
			LN			1.2	2.2
			LE			1.0	1.3
SSE	6.7	353	PNC	09 43 33.6	- 1.1		
			$P_m Z$			0.5	0.1
			ELG_2	09 45 40.0	5.1		
			LN	Ms=4.1		12.0	1.4
			LE			12.0	1.1
GZH	8.1	262	EP	09 43 53.0	- 1.3		
			LN	Ms=4.9		5.0	3.8
			LE			4.0	1.4
NJ2	8.1	340	PD	09 43 53.2	- 1.4		
			S	09 45 24.2	- 3.5		
			LG_2	09 46 25.0	3.2		
			LE	Ms=4.6		6.5	2.6
TIA	12.5	341	EP	09 44 52.3	- 2.5		
			ELG_2	09 48 45.0	- 1.5		
			LN	Ms=4.1		14.0	0.7
			LE			14.0	0.8
QZN	12.6	247	EP	09 45 00.8	5.3		
GYA	14.1	281	P	09 45 15.4	- 0.3		
			S	09 47 47.0	- 6.5		
XAN	15.0	312	EP	09 45 28.0	0.9		
			LG_1	09 49 36.8	- 6.6		
			LN	Ms=4.8		6.0	1.9
			LE			6.0	1.0
TIY	15.6	330	EP	09 45 40.0	4.3		
			ES	09 48 39.5	9.9		
			LE	Ms=4.1		13.0	0.8
BJI	16.4	343	EP	09 45 48.5	3.4		
			(S)	09 48 52.0	5.2		
SNY	17.4	3	EP	09 46 01.5	3.0		
			S	09 49 14.0	2.9		
			LE	Ms=4.1		14.0	0.6
CD2	17.5	295	EP	09 45 59.4	0.2		
			LN	Ms=4.7		5.5	1.0
KMI	17.6	276	EP	09 46 02.0	1.2		
			ES	09 49 07.0	- 8.4		
			LN	Ms=4.5		8.0	1.0
CN2	19.5	7	PD	09 46 22.6	- 1.6		
			ES	09 49 48.0	-11.0		
			LN	Ms=4.1		13.0	0.6
LZH	19.6	310	P	09 46 24.5	- 0.1		
MDJ	21.1	15	EP	09 46 45.0	4.5		
LSA	28.0	287	P	09 47 46.9	- 0.6		
WMQ	34.1	313	EP	09 48 39.5	- 1.4		
1984 4 16							
O=10 42 05.7 +/- 0.21 SEC							
LAT=20.61 S +/- 0.54 KM							
LONG=177.25 W +/- 0.59 KM							
DEPTH=512 KM +/- 1.24 KM							
mb(NEIS)=4.8							
STATIONS USED=13, STAND DEV=0.48 SEC							
MDJ	81.0	324	EP	10 53 29.6	1.0		
CN2	82.8	322	PD	10 53 37.5	- 0.2		
1984 4 16							
O=16 45 20.8 +/- 0.05 SEC							
LAT=34.08 N +/- 0.77 KM							
LONG=104.05 E +/- 0.58 KM							
DEPTH=0 KM +/- 0.30 KM							
ML(CHINA)=3.3/4							
STATIONS USED=9, STAND DEV=2.22 SEC							
LZH	2.0	355	PN	16 45 58.5	2.0		
			PG	16 46 01.5	4.1		
			SG	16 46 27.0	3.3		
CD2	3.2	184	PB	16 46 19.0	0.5		
			SG	16 46 58.8	- 1.4		
XAN	4.0	89	EPN	16 46 24.8	- 0.7		
			PG	16 46 35.6	1.1		
			SN	16 47 12.5	- 1.8		
			SG	16 47 29.4	1.9		
			$S_m N$	ML=3.6		0.4	0.1
			$S_m E$			0.8	0.1
GTA	6.3	328	PN	16 46 55.8	- 1.9		
1984 4 16							
O=20 22 11.3 +/- 0.43 SEC							
LAT=16.79 N +/- 2.33 KM							
LONG=120.05 E +/- 2.16 KM							
DEPTH=52 KM +/- 2.65 KM							
Ms(CHINA)=4.0/11, mb(NEIS)=4.9,							
STATIONS USED=51, STAND DEV=2.12 SEC							
QZH	8.2	350	EP	20 24 11.0	0.0		
			$S_m N$			0.5	0.04

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_m E			0.5	0.06
			LN	Ms=3.7		14.0	0.9
GZH	8.9	315	EP	20 24 15.2	− 4.7		
			LN	Ms=4.0		15.0	1.0
			LE			15.0	0.9
NJ2	15.2	356	EP	20 25 47.5	2.7		
			LN	Ms=3.8		14.0	0.4
GYA	15.7	309	P	20 25 52.0	0.8		
KMI	18.2	300	EP	20 26 23.5	1.7		
			ES	20 29 39.5	− 0.4		
			LE	Ms=4.3		20.0	1.5
XAN	19.9	331	EP	20 26 40.3	− 0.9		
CD2	20.4	316	EP	20 26 47.6	0.4		
			S	20 30 26.0	− 2.6		
TIY	21.9	343	P	20 27 03.0	1.1		
			LN	Ms=3.9		13.5	0.4
DL2	22.1	3	EP	20 27 05.1	1.5		
BJI	23.4	352	EP	20 27 18.0	1.3		
LZH	24.0	326	IPD	20 27 24.4	1.6		
			P_m Z			2.0	0.2
SNY	25.1	6	EP	20 27 33.2	− 0.2		
BTO	25.3	341	EP	20 27 35.1	0.4		
CN2	27.3	8	P	20 27 52.2	− 1.3		
			LE	Ms=4.1		15.0	0.4
GTA	28.6	325	P	20 28 05.9	0.4		
MDJ	28.9	4	EP	20 28 07.0	− 0.7		
LSA	29.4	301	P	20 28 13.6	0.8		
WMQ	38.4	321	EP	20 29 31.5	1.7		

1984 4 16

O=23 13 48.8 +/− 0.21 SEC
LAT=0.03 N +/− 0.70 KM
LONG=123.64 E +/− 0.69 KM
DEPTH=200 KM +/− 1.26 KM
mb(NEIS)=4.6
STATIONS USED=7, STAND DEV=1.39 SEC

QZN	23.2	325	P	23 18 40.6	1.1		
MDJ	44.7	6	EP	23 21 43.5	− 0.6		

1984 4 17

O=14 16 47.8 +/− 0.84 SEC
LAT=6.66 S +/− 3.01 KM
LONG=126.82 E +/− 2.69 KM
DEPTH=445 KM +/− 5.17 KM
mb(NEIS)=5.6
STATIONS USED=91, STAND DEV=1.74 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	30.5	327	IPD	14 22 25.0	0.1		
			P_m Z			5.0	1.2
			AP	14 23 46.5	2.4		
			S	14 26 50.0	− 4.7		
			XS	14 29 16.5	− 0.3		
GZH	32.4	336	IPD	14 22 41.5	0.8		
			P_m Z			3.0	1.6
			(S)	14 27 20.0	− 3.3		
QZH	32.4	345	PU	14 22 38.0	− 3.1		
			P_m Z			4.0	1.3
			AP	14 24 06.0	4.5		
			XP	14 24 49.0	− 3.0		
			S	14 27 20.0	− 4.0		
SSE	37.9	352	PD	14 23 28.0	0.9		
			P_m N			1.0	0.1
			P_m Z			1.0	0.3
			PP	14 25 06.0	− 1.3		
			PCP	14 25 33.0	0.5		
			XP	14 25 40.0	0.5		
			SCP	14 28 37.0	0.8		
GYA	38.3	330	PD	14 23 31.0	0.7		
			P_m N			3.0	0.6
			P_m E			3.0	0.5
			P_m Z			3.0	1.2
			PP	14 25 12.0	0.9		
			PCP	14 25 35.0	1.4		
			XP	14 25 43.0	0.4		
			SCP	14 28 39.0	1.4		
			S	14 28 50.0	− 3.0		
			SCS	14 32 50.0	1.6		
NJ2	39.2	349	IPD	14 23 39.0	1.1		
			PP	14 25 22.0	1.0		
			PCP	14 25 37.8	1.2		
			XP	14 25 53.0	2.4		
			SCP	14 28 42.6	1.4		
			S	14 29 07.0	0.3		
			XS	14 31 34.0	− 0.5		
KMI	39.3	324	IPD	14 23 40.0	1.4		
			XP	14 25 56.0	4.5		
			SCP	14 28 44.0	2.4		
			ES	14 29 08.0	− 0.6		
			S_m E			4.0	0.7
			SCS	14 32 59.0	4.4		
CD2	43.4	330	IPR	14 24 11.6	0.2		
			P_m Z			0.8	0.3
			PCP	14 25 52.0	1.6		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			XP	14 26 28.0	2.9		
			SCP	14 28 59.8	2.0		
			IS	14 30 03.0	− 3.9		
			SCS	14 33 21.0	1.7		
TIA	43.6	348	PD	14 24 12.8	− 0.2		
			P_mN			6.0	0.6
			P_mE			6.0	0.3
			P_mZ			6.0	1.0
			PCP	14 25 51.1	− 0.1		
			PP	14 26 05.0	3.1		
			PP_mN			7.0	0.5
			PP_mZ			7.0	1.0
			SCP	14 29 00.0	1.4		
			PCS	14 29 45.6	3.8		
			ES	14 30 03.5	− 6.3		
			S_mN			8.0	0.1
			S_mE			9.0	0.3
			SCS	14 33 22.6	1.9		
DL2	45.6	354	IPR	14 24 28.5	0.0		
			P_mN			2.0	0.9
			P_mZ			2.0	1.6
			PCP	14 25 58.0	− 0.1		
			XP	14 26 43.0	0.1		
			SCP	14 29 05.0	− 1.7		
			PC	14 29 52.0	2.0		
			ESS	14 30 36.5	− 1.2		
			SCS	14 33 35.0	1.6		
TIY	46.1	344	IPD	14 24 32.4	− 0.5		
			P_mZ			0.8	0.1
			PCP	14 26 00.0	0.0		
			XP	14 26 48.0	0.6		
			SCP	14 29 10.5	1.5		
			ES	14 30 41.0	− 4.6		
			SCS	14 33 36.0	− 1.0		
BJI	47.5	348	IPD	14 24 43.0	− 0.2		
			P_mN			4.0	0.6
			P_mE			4.0	0.6
			PCP	14 26 05.0	0.1		
			PP	14 26 40.0	− 0.4		
			SCP	14 29 16.0	1.3		
			ES	14 31 03.0	− 1.2		
			SCS	14 33 48.5	2.5		
SNY	48.3	356	IPD	14 24 49.0	− 0.6		
			P_mZ			3.0	2.0
			XP	14 27 03.5	− 1.3		
			ES	14 31 15.2	− 0.7		
			SCS	14 33 52.5	0.9		
HHC	49.3	344	PR	14 24 59.0	1.9		
BTO	49.5	343	P	14 24 57.4	− 1.1		
			P_mZ			4.0	1.2
			SCP	14 29 24.5	1.3		
			EPCS	14 30 09.0	2.5		
			ES	14 31 28.0	− 4.1		
			ESCS	14 34 00.5	1.1		
LSA	49.8	318	PR	14 25 02.0	0.8		
			IS	14 31 34.4	− 2.5		
			S_mE			5.0	1.0
			SCS	14 34 02.4	0.9		
			XS	14 34 15.4	3.9		
CN2	50.2	358	IPD	14 25 03.0	− 0.9		
			P_mZ			4.0	1.0
			PCP	14 26 14.8	− 0.1		
			AP	14 26 31.0	− 0.4		
			XP	14 27 20.0	0.3		
			SCP	14 29 27.2	0.9		
			PCS	14 30 12.0	2.3		
			S	14 31 38.0	− 3.9		
			SCS	14 34 02.5	− 1.9		
			ESS	14 35 19.0	− 2.1		
MDJ	51.1	2	IPD	14 25 10.5	0.3		
			P_mZ			3.0	2.4
			XP	14 27 27.0	0.6		
			SCP	14 29 31.5	1.4		
			PCS	14 30 18.0	4.6		
			ES	14 31 51.0	− 2.6		
			XS	14 34 28.0	− 1.7		
GTA	52.2	333	IPD	14 25 19.1	0.6		
			PCP	14 26 24.2	1.9		
			ISCP	14 29 37.2	2.3		
			S	14 32 07.0	− 1.8		
			S_mE			7.0	0.4
			SCS	14 34 19.2	1.1		
WMQ	61.4	328	IPD	14 26 22.2	0.2		
			P_mZ			1.5	0.7
			PCP	14 26 59.0	0.4		
			AP	14 27 54.0	− 0.6		
			PP	14 28 37.0	− 8.4		
			S	14 34 05.5	− 2.4		
			ISCS	14 35 26.0	0.8		
KSH	65.6	318	IPR	14 25 50.0	1.0		
			AP	14 28 24.0	0.9		
			S	14 35 02.0	2.9		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 17							
O = 16 22 41.9			+/− 0.05 SEC				
LAT = 11.93 S			+/− 1.47 KM				
LONG = 166.89 E			+/− 0.98 KM				
DEPTH = 36 KM			+/− 0.57 KM				
mb(NEIS) = 5.2							
STATIONS USED = 16, STAND DEV = 0.91 SEC							
NJ2	63.4	315	PD	16 33 11.0	0.1		
CN2	67.1	328	P	16 33 33.8	− 0.5		
GYA	69.8	304	P	16 33 52.0	0.4		
XAN	71.5	312	EP	16 34 01.8	− 0.1		
KMI	72.5	301	PC	16 34 08.5	0.5		
CD2	74.0	307	EP	16 34 17.4	0.8		
1984 4 17							
O = 19 43 27.6			+/− 0.06 SEC				
LAT = 14.87 S			+/− 1.94 KM				
LONG = 166.68 E			+/− 1.51 KM				
DEPTH = 21 KM			+/− 0.75 KM				
Ms(CHINA) = 4.9/3, Msz(NEIS) = 4.9, mb(NEIS) = 5.4							
STATIONS USED = 43, STAND DEV = 1.01 SEC							
SSE	63.2	316	EP	19 54 00.0	2.5		
			XS	20 02 42.0	2.6		
NJ2	65.4	316	EP	19 54 13.5	2.0		
MDJ	68.1	332	EP	19 54 28.2	− 0.8		
SNY	69.0	326	EP	19 54 33.5	− 0.9		
TIA	69.1	318	EP	19 54 33.7	− 1.1		
			ES	20 03 37.0	− 1.0		
			LN	Ms = 5.0		19.0	0.9
CN2	69.5	329	PC	19 54 36.4	− 0.9		
			ES	20 03 43.0	0.2		
			LN	Ms = 4.9		17.0	0.6
GYA	71.3	304	P	19 54 49.2	0.5		
			S	20 04 10.0	5.2		
TIY	73.0	317	EP	19 54 58.7	0.2		
XAN	73.4	312	P	19 55 01.0	0.3		
KMI	73.9	302	PC	19 55 04.0	0.0		
			AP	19 55 13.5	2.3		
			XP	19 55 19.0	4.4		
			ES	20 04 40.0	5.8		
HHC	75.3	319	EP	19 55 12.0	− 0.1		
CD2	75.6	307	EP	19 55 15.0	1.1		
BTO	76.2	319	EP	19 55 16.1	− 0.8		
			ES	20 05 04.0	4.9		
LZH	78.0	312	IPC	19 55 28.0	0.8		
			P_m Z			1.5	0.06
GTA	82.4	314	EP	19 55 51.4	0.9		
LSA	85.2	302	EP	19 55 02.9	− 2.1		
WMQ	92.4	314	EP	19 56 39.3	0.1		
1984 4 17							
O = 20 24 07.2			+/− 0.06 SEC				
LAT = 25.49 N			+/− 1.13 KM				
LONG = 122.86 E			+/− 0.97 KM				
DEPTH = 245 KM			+/− 0.43 KM				
mb(NEIS) = 4.8							
STATIONS USED = 50, STAND DEV = 1.26 SEC							
QZH	3.9	262	P	20 25 09.0	− 1.3		
			S	20 25 55.0	− 4.3		
			S_m N			1.0	0.3
			S_m E			1.0	0.3
			LN			2.0	0.04
SSE	5.8	345	PC	20 25 33.5	0.2		
NJ2	7.4	332	EP	20 25 55.0	1.0		
GZH	9.0	256	IPC	20 26 13.6	− 0.6		
			LN			1.0	0.04
			LE			1.0	0.04
TIA	11.8	336	EP	20 26 52.7	3.5		
DL2	13.4	355	EP	20 27 12.0	2.3		
QZN	13.7	244	EP	20 27 15.0	2.4		
GYA	14.6	277	P	20 27 25.4	1.1		
XAN	14.8	308	EP	20 27 27.5	0.9		
BJI	15.5	340	EP	20 27 35.5	0.0		
SNY	16.3	1	IPC	20 27 43.8	− 0.5		
CD2	17.7	292	EP	20 27 59.1	− 0.1		
KMI	18.2	273	PC	20 28 04.5	− 0.3		
			ES	20 31 18.0	1.9		
CN2	18.4	5	IPD	20 28 05.7	− 0.8		
BTO	18.5	327	E(P)	20 28 07.1	− 0.5		
LZH	19.4	307	P	20 28 17.5	0.3		
MDJ	19.8	14	EP	20 28 22.0	0.7		
GTA	23.8	311	IPD	20 28 59.6	− 0.2		
1984 4 17							
O = 23 46 37.2			+/− 0.07 SEC				
LAT = 1.19 N			+/− 1.12 KM				
LONG = 123.37 E			+/− 1.05 KM				
DEPTH = 33 KM			+/− 0.42 KM				
STATIONS UED = 6, STAND DEV = 1.30 SEC							
KMI	31.0	321	EP	23 52 57.5	2.7		
GTA	43.7	333	P	23 54 40.4	− 0.0		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 18							
O=01 34 16.2			+/− 0.08 SEC				
LAT=24.80 N			+/− 1.55 KM				
LONG=122.50 E			+/− 1.33 KM				
DEPTH=24 KM			+/− 0.59 KM				
Ms(CHINA)=5.0/25, Msz(NEIS)=3.6							
mb(NEIS)=5.1, ML(CHINA)=4.7/7							
STATIONS USED=70, STAND DEV=1.68 SEC							
QZH	3.6	273	EPN	01 35 08.5	− 2.9		
			SN	01 35 52.6	− 0.8		
			S_m N	ML=4.7		1.2	3.2
			S_m E			0.8	0.9
			LN	Ms=4.7		9.0	0.9
			LE			10.0	16.2
SSE	6.4	349	PND	01 35 47.0	− 4.3		
			LG_2	01 37 56.0	9.3		
			LN	Ms=4.9		10.0	9.6
			LE			10.0	3.3
NJ2	7.9	336	PND	01 36 08.5	− 4.2		
			LE	Ms=5.0		10.5	12.2
GZH	8.6	260	EP	01 36 22.5	0.8		
			S	01 37 54.5	− 4.1		
			LG_2	01 38 55.0	− 3.4		
			LN	Ms=5.2		9.0	6.3
			LE			10.0	16.6
TIA	12.3	339	EP	01 37 08.3	− 4.5		
			LN	Ms=5.0		10.0	1.7
			LE			10.5	6.3
QZN	13.1	246	EP	01 37 26.5	3.0		
			LN	Ms=4.5		11.0	0.9
			LE			10.0	1.7
DL2	14.1	357	EP	01 37 39.5	2.8		
			EN	01 40 22.0	8.5		
GYA	14.4	279	EE	01 37 45.2	4.4		
			S	01 40 29.0	8.0		
			LN	Ms=5.0		10.0	2.6
			LE			10.0	5.0
XAN	15.0	311	EP	01 37 45.1	− 3.5		
			ES	01 40 33.0	− 1.9		
			LG_2	01 42 26.1	− 4.4		
			LN	Ms=5.0		9.5	4.0
			LE			10.0	3.3
TIY	15.5	328	EP	01 57 58.2	3.2		
BJI	16.1	342	P	01 38 02.5	− 0.4		
			LN	Ms=4.8		10.5	2.4
			LE			9.5	1.4
SNY	17.0	2	EP	01 38 11.2	− 3.2		
			ES	01 41 17.0	− 4.9		
			LN	Ms=5.0		10.0	3.6
			LE			10.0	1.4
CD2	17.7	294	EP	01 38 21.8	− 0.8		
			ES	01 41 31.0	− 5.7		
			LN	Ms=5.0		9.0	3.9
KMI	17.9	275	EP	01 38 26.5	0.3		
			AP	01 38 33.0	0.7		
			XP	01 38 38.0	1.4		
			ES	01 41 40.0	4.9		
			SS	01 42 04.0	− 0.8		
			LN	Ms=5.0		10.0	4.3
HHC	18.4	332	EP	01 38 31.0	− 1.3		
			ES	01 42 05.5	11.0		
			LN	Ms=4.9		9.0	2.8
BTO	18.9	329	EP	01 38 38.5	0.4		
			ES	01 42 04.0	− 1.1		
			LN	Ms=5.2		11.5	3.6
			LE			11.5	5.5
CN2	19.1	6	PC	01 38 40.6	0.2		
			XP	01 38 54.0	3.0		
			ES	01 42 09.0	− 0.5		
			S_m N			8.0	0.9
			LN	Ms=4.9		11.0	3.2
			LE			11.0	1.6
LZH	19.6	309	EP	01 38 46.5	0.5		
MDJ	20.6	14	EP	01 38 56.5	0.0		
			AP	01 39 05.5	1.8		
			XP	01 39 10.0	2.4		
			ES	01 42 47.0	6.1		
GTA	24.0	312	EP	01 39 31.0	0.2		
			XS	01 44 00.0	4.0		
			LE	Ms=5.0		12.0	3.4
LSA	28.2	286	EP	01 40 09.5	− 1.0		
WMQ	34.1	312	EP	01 41 04.5	2.7		
1984 4 18							
O=02 56 40.4			+/− 1.71 SEC				
LAT=59.56 S			+/− 36.29 KM				
LONG=27.13 W			+/− 58.56 KM				
DEPTH=101 KM			+/− 12.53 KM				
mb(NEIS)=5.5							
STATIONS USED=19, STAND DEV=2.48 SEC							
XAN	141.6	111	EPKP	03 15 54.6	− 6.5		
NJ2	144.4	125	IPKP	03 16 04.3	− 1.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SSE	144.5	129	EPKP	03 16 04.3	− 1.6		
TIY	146.3	112	PKP	03 16 09.8	0.7		
TIA	147.2	119	EPKP	03 16 12.1	1.5		
BTO	147.4	106	EPKP	03 16 12.8	1.8		
BJI	149.9	113	EPKP	03 16 18.5	3.6		
1984 4 18							
O=06 49 12.8			+/− 0.09 SEC				
LAT=16.30 S			+/− 4.30 KM				
LONG=174.16 W			+/− 3.10 KM				
DEPTH=155 KM			+/− 1.66 KM				
mb(NEIS)=6.0							
STATIONS USED=70, STAND DEV=1.37 SEC							
QZH	77.3	300	IPD	07 00 52.0	− 0.3		
			P_mN			5.0	1.1
			P_mE			5.0	2.2
			P_mZ			5.0	5.9
			AP	07 01 32.5	2.6		
			XP	07 01 48.0	1.2		
			PP	07 03 46.0	− 2.9		
			S	07 10 30.0	1.7		
			S_mN			8.0	2.4
			S_mE			8.0	1.4
SSE	77.9	307	PD	07 00 54.0	− 1.3		
			P_mE			2.0	0.3
			P_mZ			2.0	0.7
			XP	07 01 46.0	− 4.3		
			LE			18.0	3.6
MDJ	79.3	322	IPD	07 01 02.5	− 0.8		
			P_mZ			6.0	6.0
			AP	07 01 37.0	− 4.0		
			XP	07 01 54.0	− 3.9		
			PP	07 04 07.0	1.3		
			S	07 10 50.0	0.3		
			S_mE			10.0	3.0
NJ2	80.1	307	IPD	07 01 07.8	0.0		
			P_mZ			6.5	3.9
			XP	07 02 00.0	− 2.4		
			S	07 11 02.5	4.1		
			S_mN			9.5	1.3
			XS	07 12 07.0	2.7		
GZH	81.0	297	EPR	07 01 13.0	0.8		
			P_mZ			6.0	5.7
			AP	07 01 53.5	3.5		
			XP	07 02 09.0	2.1		
			PP	07 04 16.5	− 3.4		
			S	07 11 10.0	3.0		
DL2	81.3	314	IPR	07 01 13.5	− 0.4		
			P_mN			6.0	1.1
			P_mE			6.0	2.2
			P_mZ			6.0	5.3
			AP	07 01 52.0	0.2		
			PP	07 04 17.0	− 5.6		
			S	07 11 07.0	− 3.4		
			S_mN			8.0	3.3
CN2	81.3	320	IPD	07 01 12.9	− 1.1		
			P_mN			6.0	1.0
			P_mE			6.0	1.2
			P_mZ			6.0	4.8
			AP	07 01 51.0	− 0.9		
			XP	07 02 04.0	− 4.7		
			ES	07 11 08.0	− 2.7		
			S_mN			10.0	2.0
			S_mE			10.0	1.9
			XS	07 12 18.0	1.3		
SNY	81.4	318	IPD	07 01 14.0	− 0.8		
			P_mZ			6.5	5.3
			AP	07 01 49.5	− 3.1		
			XP	07 02 06.0	− 3.5		
			S	07 11 14.0	1.9		
			S_mN			16.0	4.0
			S_mE			20.0	4.8
			XS	07 12 20.0	1.8		
			SS	07 16 30.0	− 3.2		
			LN			40.0	6.7
			LE			26.0	3.2
QZN	82.6	292	P	07 01 21.8	1.3		
			P_mZ			6.0	3.5
			AP	07 02 02.5	4.0		
			XP	07 02 14.0	− 1.3		
			PP	07 04 29.0	− 3.7		
			S	07 11 30.0	6.6		
			S_mN			6.0	0.6
			S_mE			8.0	1.1
TIA	83.6	310	PD	07 01 23.7	− 0.2		
			AP	07 02 05.6	3.7		
			XP	07 02 15.0	− 3.7		
			PP	07 04 33.8	− 4.2		
			S	07 11 34.0	3.8		
			S_mE			8.0	3.1
BJI	85.6	313	EPD	07 01 35.0	− 0.5		
			P_mZ			5.0	5.1

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			EAP	07 02 11.0	− 2.7		
			EXP	07 02 27.5	− 2.9		
			ESKS	07 11 45.0	3.2		
			S	07 11 57.0	4.1		
			S_mN			8.0	3.2
			S_mE			8.0	1.5
			XS	07 12 59.5	− 0.1		
TIY	87.3	310	IPD	07 01 44.0	0.1		
			P_mZ			1.2	0.3
			XP	07 02 40.0	1.2		
			PP	07 05 05.0	− 6.5		
			SKS	07 11 57.0	3.9		
			S	07 12 13.0	3.6		
GYA	87.8	298	PD	07 01 47.6	1.0		
			P_mN			4.0	0.6
			P_mE			4.0	1.5
			P_mZ			4.0	45.6
			S	07 12 20.0	5.4		
XAN	88.6	305	PD	07 01 49.8	− 0.2		
			P_mZ			6.0	3.8
			XP	07 02 45.0	0.0		
			PP	07 05 15.5	− 6.3		
			ISKS	07 12 04.5	3.3		
			S	07 12 19.0	− 2.4		
HHC	89.1	313	PD	07 01 53.0	0.4		
			SKS	07 12 11.0	6.5		
			IS	07 12 35.0	8.5		
			S_mN			7.0	5.1
BTO	90.1	312	IPR	07 01 58.0	0.7		
			P_mZ			8.0	5.4
			AP	07 02 37.0	1.3		
			ESKS	07 12 15.0	4.5		
			IS	07 12 42.5	7.0		
			S_mN			9.0	5.6
			S_mE			9.0	1.2
KMI	90.8	295	IPR	07 02 02.2	2.0	2.0	
			P_mZ			4.0	4.2
			AP	07 02 42.0	3.2		
			XP	07 02 58.0	2.6		
			SKS	07 12 21.0	6.6		
			S	07 12 50.0	8.4		
CD2	91.7	301	IPD	07 02 05.0	0.5		
			AP	07 02 42.0	− 1.0		
			XP	07 02 57.0	− 2.6		
			SKS	07 12 24.0	4.5		
			S	07 12 55.0	5.8		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	REFID sec	T sec	A μ
			S_mN			8.0	3.2
LZH	93.2	306	IPR	07 02 12.0	0.4		
			P_mZ			6.0	2.4
			AP	07 02 51.0	1.0		
			ESKS	07 12 32.0	3.9		
			ES	07 13 08.0	5.4		
			S_mN			9.5	5.9
GTA	97.2	308	IPD	07 02 29.8	0.1		
			SKS	07 12 52.0	2.6		
			S	07 13 37.0	0.3		
			S_mE			18.0	2.4
LSA	101.9	297	PR	07 02 52.7	1.4		
			P_mZ			5.0	1.2
			PP	07 07 02.2	− 3.1		
			SKS	07 13 15.2	2.3		
			S	07 14 19.7	3.1		
KSH	115.4	306	PKP	07 07 39.0	1.8		
			ESKS	07 14 33.0	1.8		

1984 4 18
O=08 52 05.0 +/− 1.45 SEC
LAT=40.36 N +/− 5.44 KM
LONG=142.24 E +/− 4.90 KM
DEPTH=58 KM +/− 8.86 KM
mb(NEIS)=4.6
STATIONS USED=19, STAND DEV=4.39 SEC

MDJ	10.3	298	EP	08 54 33.9	1.5	
CN2	12.9	290	EP	08 55 06.0	− 2.4	
TIA	20.1	266	EP	08 56 33.7	− 3.4	

1984 4 18
O=19 31 27.1 +/− 0.39 SEC
LAT=60.88 N +/− 1.45 KM
LONG=152.18 W +/− 1.38 KM
DEPTH=88 KM +/− 2.36 KM
mb(NEIS)=5.1
STATIONS USED=61, STAND DEV=1.11 SEC

MDJ	47.0	287	PC	19 39 53.5	1.6	
CD2	49.6	289	PC	19 40 11.4	− 0.3	
			P_mZ			3.0 0.3
			EAP	19 40 34.4	1.8	
			XP	19 40 45.0	2.0	
			ES	19 47 10.0	− 2.0	
SNY	52.0	289	EP	19 40 29.7	− 0.1	
DL2	55.2	288	EP	19 40 54.5	0.9	
BJI	56.8	293	EP	19 41 04.0	− 0.9	

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
HHC	58.1	297	PU	19 41 15.0	0.3		
BTO	59.0	298	P	19 41 20.5	− 0.2		
TIA	59.5	290	EP	19 41 23.3	− 0.4		
TIY	60.3	294	IPD	19 41 30.3	0.5		
SSE	61.8	283	P	19 41 38.5	− 0.9		
NJ2	62.1	286	EP	19 41 41.0	− 0.5		
GTA	64.3	305	PC	19 41 56.0	0.0		
WMQ	64.9	316	PC	19 42 00.0	− 0.1		
LZH	65.4	300	IPC	19 42 03.5	− 0.1		
			P_mZ			0.8	0.2
CD2	69.9	297	IPD	19 42 31.6	0.2		
			P_mZ			0.7	0.07
GZH	72.2	285	PC	19 42 45.5	0.1		
GYA	72.4	292	PC	19 42 46.8	0.1		
KMI	75.3	295	EP	19 43 02.0	− 1.7		
LSA	76.2	306	PD	19 43 10.4	1.8		
QZN	77.4	286	P	19 43 15.5	0.6		

1984 4 18

O = 22 22 48.7 +/− 0.20 SEC
LAT = 7.01 S +/− 5.63 KM
LONG = 106.05 E +/− 3.93 KM
DEPTH = 53 KM +/− 2.18 KM
mb(NEIS) = 5.0
STATIONS USED = 17, STAND DEV = 3.91 SEC

LSA	39.2	339	EP	22 30 13.4	− 0.9		
TIA	44.2	12	EP	22 30 53.7	− 1.3		
GTA	46.5	353	PC	22 31 12.8	− 0.7		
WMQ	53.2	343	P	22 32 03.2	− 1.6		
CN2	53.5	17	P	22 32 04.2	− 2.6		
			PCP	22 33 11.2	− 0.8		

1984 4 19

O = 02 53 11.3 +/− 0.63 SEC
LAT = 36.56 N +/− 2.70 KM
LONG = 70.79 E +/− 2.45 KM
DEPTH = 187 KM +/− 3.86 KM
mb(NEIS) = 5.7, ML(CHINA) = 5.7/1
STATIONS USED = 96, STAND DEV = 2.17 SEC

KSH	5.0	53	IPR	02 54 29.0	2.3		
			S	02 55 27.0	1.9		
WMQ	14.8	55	IPD	02 56 32.0	− 1.1		
			P_mZ			3.0	1.2
			S	02 59 09.0	− 3.6		
			SCS	03 08 23.0	0.1		
LSA	18.4	106	PR	02 57 16.3	1.3		
			S	03 00 32.8	2.3		
			S_mE			4.0	2.6
GTA	23.0	74	IPC	02 58 02.8	1.6		
			P_mZ			3.0	1.0
			XP	02 59 03.4	4.2		
			S	03 02 02.0	7.3		
			LE			11.0	1.0
CD2	27.9	91	IPC	02 58 46.5	0.1		
			P_mZ			1.0	0.2
			EAP	02 59 28.0	4.0		
			EPP	02 59 40.0	− 4.2		
			PCP	03 01 51.0	− 5.7		
			IS	03 03 16.0	1.0		
			ISCS	03 09 07.5	− 2.1		
KMI	29.6	103	EP	02 59 00.0	− 1.4		
			AP	02 59 44.0	4.8		
			PP	03 00 05.0	0.0		
			IS	03 03 40.0	− 1.8		
			S_mE			5.0	1.0
BTO	30.8	70	IPU	02 59 11.5	− 0.2		
			AP	02 59 53.0	3.2		
			S_mN			9.0	0.4
			S_mE			9.0	0.6
XAN	31.1	83	PC	02 59 13.0	− 1.6		
			AP	02 59 56.0	3.2		
			S	03 04 04.0	− 1.3		
			S_mE			5.0	0.4
			SS	03 05 58.0	− 7.0		
HHC	31.9	69	P	02 59 21.8	0.1		
			AP	03 00 03.5	3.5		
			S	03 04 20.0	1.9		
			S_mE			4.0	0.4
GYA	32.0	98	PC	02 59 22.0	− 0.9		
			AP	03 00 03.0	1.7		
			XP	03 00 27.0	4.1		
			S	03 04 19.0	− 1.2		
			S_mE			5.0	1.1
			SCS	03 09 28.0	− 1.5		
TIY	33.0	75	PU	02 59 30.5	− 0.9		
			P_mZ			1.1	0.2
			AP	03 00 06.5	− 3.5		
			XP	03 00 36.0	4.5		
			S	03 04 35.5	0.0		
BJI	35.5	70	EP	02 59 51.5	− 0.7		
			AP	03 00 34.0	2.6		
			PCP	03 02 16.0	− 1.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	03 05 12.0	− 1.3		
			XS	03 06 26.0	4.1		
			SCS	03 09 48.0	0.3		
TIA	37.0	76	P	03 00 05.1	0.0		
			AP	03 00 48.0	3.5		
			PCP	03 02 18.0	− 3.7		
			S	03 05 32.0	− 4.6		
			S_m E			8.0	0.7
			LN			8.0	0.7
QZN	38.4	106	EP	03 00 16.2	− 0.3		
			XP	03 01 20.5	3.0		
			EPCP	03 02 32.0	6.0		
			S	03 05 53.5	− 3.8		
			S_m E			10.0	1.3
GZH	39.0	98	IPC	03 00 21.4	0.1		
			S	03 06 04.5	− 1.5		
			S_m N			5.0	0.8
			S_m E			5.0	0.7
NJ2	39.6	82	IPC	03 00 26.6	− 0.1		
			PCP	03 02 28.8	− 1.1		
			SCP	03 05 56.8	− 2.5		
			S	03 06 15.0	− 0.8		
SNY	40.7	65	PU	03 00 33.0	− 2.6		
			AP	03 01 14.5	− 1.0		
			S	03 06 25.0	− 6.9		
			XS	03 07 44.0	2.2		
			LE			15.0	0.6
CN2	41.7	62	PC	03 00 42.4	− 1.5		
			XP	03 01 50.0	4.8		
			PCP	03 02 34.7	− 2.0		
			SCP	03 06 05.0	− 2.6		
			ES	03 06 45.0	− 1.8		
			S_m N			6.0	0.5
			XS	03 07 57.0	0.1		
			SCS	03 10 22.0	− 1.7		
SSE	41.8	82	IPU	03 00 44.0	− 0.8		
			P_m Z			1.0	0.2
			S	03 06 48.0	− 0.2		
			LN			24.0	0.3
QZH	42.3	92	PU	03 00 47.0	− 1.5		
			AP	03 01 29.5	0.9		
			ES	03 06 52.0	− 2.9		
MDJ	44.5	60	PC	03 01 05.3	− 1.1		
			AP	03 01 49.0	2.3		
			PCP	03 02 45.0	− 1.2		
			ES	03 07 24.0	− 3.2		
			XS	03 08 41.0	2.7		

1984 4 19
O = 03 36 32.7 +/− 0.07 SEC
LAT = 40.22 N +/− 1.80 KM
LONG = 142.93 E +/− 1.41 KM
DEPTH = 19 KM +/− 0.69 KM
Ms(CHINA) = 4.4/11, Msz(NEIS) = 4.9, mb(NEIS) = 5.3
STATIONS USED = 73, STAND DEV = 1.25 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
MDJ	10.8	298	EP	03 39 11.2	1.5		
			PP	03 39 20.0	2.3		
			S	03 41 12.0	0.6		
			SS	03 41 25.0	− 0.8		
CN2	13.5	291	EP	03 39 42.8	− 3.1		
SNY	14.7	282	EP	03 40 04.0	2.2		
			ES	03 42 48.0	2.5		
			LE	Ms=4.4		17.0	2.4
DL2	16.5	272	EP	03 40 26.3	1.5		
SSE	19.8	249	PC	03 41 04.0	− 1.6		
			AP	03 41 11.6	− 0.2		
			XP	03 41 16.0	0.3		
			LN	Ms=4.4		16.0	1.2
BJI	20.4	278	EP	03 41 09.0	− 3.0		
			LE	Ms=4.3		16.0	1.1
TIA	20.6	267	EP	03 41 12.4	− 1.8		
NJ2	21.0	254	PC	03 41 17.6	− 0.7		
			LE			16.0	1.0
HHC	23.8	281	P	03 41 44.4	− 1.2		
TIY	23.8	273	EP	03 41 47.0	1.4		
			LE	Ms=4.1		13.0	0.5
BTO	25.0	281	P	03 41 56.5	− 0.8		
XAN	27.7	268	EP	03 42 21.5	− 1.2		
			LN	Ms=4.5		9.0	0.5
			LE			9.0	0.4
GZH	30.2	244	EP	03 42 46.2	1.3		
LZH	30.8	275	EP	03 42 50.0	− 0.5		
			P_m Z			1.5	0.07
GTA	32.9	282	PC	03 43 08.4	− 0.1		
CD2	33.0	266	P	03 43 08.2	− 0.9		
GYA	33.0	256	PC	03 43 09.4	− 0.2		
QZN	35.4	243	EP	03 43 31.9	2.2		
KMI	36.7	258	IPC	03 43 41.5	0.4		
			ES	03 49 14.0	− 9.7		
			LN	Ms=4.0		14.0	1.1
			LE			14.0	1.4
WMQ	40.6	293	PC	03 44 13.6	0.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LSA	43.2	272	P	03 44 37.1	2.0		
1984 4 19							
O=06 36 47.3			+/- 0.46 SEC				
LAT=40.20 N			+/- 1.90 KM				
LONG=142.90 E			+/- 1.62 KM				
DEPTH=72 KM			+/- 2.82 KM				
mb(NEIS)=4.7							
STATIONS USED=21, STAND DEV=1.29 SEC							
MDJ	10.8	298	EP	06 39 20.0	- 1.2		
CN2	13.5	291	EP)	06 40 00.0	3.1		
BJI	20.4	278	(P)	06 41 18.5	- 2.7		
TIA	20.6	267	EP	06 41 21.5	- 1.8		
NJ2	21.0	254	PD	06 41 28.4	1.1		
GYA	33.0	256	P	06 43 18.0	- 0.1		
WMQ	40.5	293	E(P)	06 44 22.5	0.9		
1984 4 19							
O=08 28 53.7			+/- 0.11 SEC				
LAT=31.65 S			+/- 6.03 KM				
LONG=71.74 W			+/- 3.81 KM				
DEPTH=34 KM			+/- 2.34 KM				
Ms(CHINA)=5.5/5, Msz(NEIS)=5.6, mb(NEIS)=5.5							
STATIONS USED=48, STAND DEV=1.94 SEC							
KSH	152.7	64	EPKP	08 48 44.0	3.0		
MDJ	158.9	313	PKP	08 48 47.0	- 2.0		
WMQ	159.8	47	PKP_1	08 48 51.0	0.9		
			$PKP_m Z$			2.0	0.09
			PKP_2	08 49 30.5			
			PP	08 53 13.5	1.3		
CN2	161.8	316	EPKP	08 48 49.4	- 2.7		
			LE	Ms=5.6		20.0	1.0
SNY	164.1	313	$EPKP_1$	08 48 53.5	- 0.8		
			PKP_2	08 49 49.0			
			EPP	08 53 35.0	- 1.0		
			$PP_m Z$			22.0	0.7
			LE	Ms=5.3		22.0	0.8
LSA	165.1	93	EPKP	08 48 56.8	0.9		
DL2	166.9	307	EPKP	08 48 57.0	0.2		
			EPP	08 53 49.0	- 1.0		
BJI	169.5	324	PKP_1	08 48 58.0	- 0.3		
			PKP_2	08 50 12.0			
			PP	08 54 02.0	- 0.8		
GTA	169.6	39	$EPKP_1$	08 49 00.5	1.9		
			PKP_2	08 50 14.6			
			PP	08 54 04.0	0.3		
HHC	170.4	344	EPKP	08 48 58.6	- 0.5		
NJ2	171.0	275	EPKP	08 49 08.6	9.4		
			PP	08 54 14.0	3.6		
TIA	171.3	304	PKP_1	08 49 00.0	0.5		
			PKP_2	08 50 28.0			
			LN	Ms=5.4		17.0	1.0
KMI	171.9	141	EPKP	08 49 00.0	- 0.1		
			PP	08 54 11.0	- 3.9		
TLY	173.0	331	$EPKP_1$	08 49 01.6	1.1		
			$EPKP_2$	08 50 35.0			
			PP	08 54 19.0	- 1.7		
			LN	Ms=5.8		20.0	3.1
LZH	174.2	38	PKPC	08 49 02.0	1.0		
GYA	174.6	164	EPKP	08 49 01.0	0.0		
			PP	08 54 25.0	- 3.7		
CD2	176.1	99	$EPKP_1$	08 49 02.0	0.6		
			PKP_2	08 50 42.0			
			PP	08 54 33.0	- 2.8		
XAN	177.6	347	PKP_1	08 49 02.0	0.4		
			$EPKP_2$	08 50 55.0			
			PP	08 54 39.5	- 2.8		
			$PP_m Z$			6.0	0.6
1984 4 19							
O=09 33 47.8			+/- 1.36 SEC				
LAT=2.02 S			+/- 3.49 KM				
LONG=122.35 E			+/- 3.48 KM				
DEPTH=55 KM			+/- 8.28 KM				
STATIONS USED=10, STAND DEV=1.87 SEC							
QZN	24.3	330	PD	09 39 00.0	- 1.1		
CD2	37.2	333	(P)	09 40 56.6	0.4		
XAN	38.0	341	EP	09 41 02.0	- 0.9		
MDJ	46.9	7	EP	09 42 14.6	- 0.3		
1984 4 19							
O=17 29 04.3			+/- 0.24 SEC				
LAT=24.97 N			+/- 4.56 KM				
LONG=122.48 E			+/- 3.90 KM				
DEPTH=15 KM			+/- 1.74 KM				
Ms(CHINA)=5.3/31, Msz(NEIS)=5.0							
mb(NEIS)=5.0, ML(CHINA)=4.5/8							
STATIONS USED=66,)STAND DEV=4.79 SEV							
QZH	3.5	270	PNC	17 29 56.9	- 3.1		
			SN	17 30 39.5	- 2.7		
			$S_m N$	ML=4.5		1.2	1.6
			$S_m E$			1.2	1.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN	M's=5.0		9.0	14.9
			LE			10.0	21.6
SSE	6.2	349	PN	17 30 35.0	− 3.0		
			LG_2	17 32 34.0	4.7		
			LN	Ms=5.2		10.0	20.9
NJ2	7.7	336	EPN	17 30 56.4	− 3.1		
			XP	17 31 09.4	1.2		
			LG_2	17 33 12.0	− 7.9		
			LN	Ms=5.4		10.0	20.3
			LE			10.0	18.9
GZH	8.6	259	EP	17 31 11.5	0.6		
			ES	17 32 48.0	− 0.4		
			LN	Ms=5.4		9.0	8.5
			LE			9.0	20.3
TIA	12.1	338	EP	17 32 02.3	2.6		
			ES	17 34 12.0	− 3.9		
			LG_1	17 35 34.0	9.1		
			LG_2	17 35 44.0	− 0.1		
			LN	Ms=5.3		10.0	9.2
			LE			10.0	11.4
DL2	13.9	357	EP	17 32 23.5	− 0.1		
			AP	17 32 28.0	− 0.6		
			XP	17 32 33.5	0.8		
			ES	17 34 59.0	− 0.2		
			LN	Ms=5.2		10.0	8.4
			LE			6.0	1.4
XAN	14.9	310	EP	17 32 34.3	− 1.7		
			LN	Ms=5.3		10.0	8.2
			LE			11.0	4.9
BJI	15.9	342	P	17 32 50.0	0.0		
			$P_m Z$			7.0	0.3
			ES	17 35 55.0	8.2		
			$S_m E$			10.0	0.8
			LN	Ms=5.1		10.0	5.3
SNY	16.8	2	PU	17 33 03.0	1.5		
			S	17 36 13.0	5.2		
			LN	Ms=5.3		10.0	7.3
			LE			9.0	4.0
CD2	17.6	293	EP	17 33 09.4	− 1.2		
			S	17 36 19.0	− 5.5		
			LN	Ms=5.4		8.0	9.3
KMI	17.9	274	PC	17 33 16.0	1.1		
			AP	17 33 23.5	3.6		
			ES	17 36 42.0	9.8		
			LE	Ms=5.1		11.0	5.6
HHC	18.3	332	P	17 33 21.4	1.9		
			S	17 36 47.0	6.3		
			LN	Ms=5.4		9.0	6.1
			LE			9.0	7.3
BTO	18.7	329	PU	17 33 25.0	− 0.4		
			PP	17 33 41.0	0.3		
			ES	17 36 52.5	1.1		
			ELG_1	17 38 59.0	5.7		
			LG_2	17 39 28.0	5.0		
			LN	Ms=5.5		12.0	8.3
			LE			12.0	11.4
CN2	18.9	6	EP	17 33 27.7	0.1		
			ES	17 36 57.5	1.9		
			$S_m N$			7.5	2.4
			XS	17 37 07.0	3.0		
			LG_1	17 39 06.0	6.6		
			LN	Ms=5.0		11.0	7.6
LZH	19.5	309	EP	17 33 33.5	− 0.4		
			ES	17 37 19.0	11.3		
			$S_m E$			8.0	0.9
			LE	Ms=5.0		11.0	4.0
MDJ	20.4	14	EP	17 33 46.0	1.8		
			AP	17 33 53.0	2.9		
			LS	17 37 38.0	10.3		
			$S_m E$			2.0	2.0
GTA	23.9	312	IPD	17 34 18.3	− 0.6		
			ES	17 38 31.0	− 0.9		
			LN	Ms=5.3		11.0	3.9
			LE			11.0	4.3
LSA	28.2	286	EP	17 34 57.8	− 1.4		
			ES	17 39 42.6	− 0.8		
			LN	Ms=4.9		14.0	2.0
WMQ	34.0	312	P	17 35 48.1	− 1.9		

1984 4 19

O =20 33 34.9 +/− 0.34 SECC

LAT=8.27 N +/− 1.50 KM

LOUG=123.81 E +/− 1.35 KM

DEPTH=650 KM +/− 2.12 KM

mb(NEIE)=4.7

STATIONS USED=25, STAND DEV=1.25 SEC

XAN	29.1	333	P	20 38 43.8	− 4.6
CD2	29.3	322	EP	20 38 51.4	1.3
BJI	32.4	349	P	20 39 16.5	0.6
CN2	35.4	2	EP	20 39 40.8	− 0.5
MDJ	36.6	6	IPC	20 39 51.8	1.2
WMQ	47.4	324	P	20 41 16.3	0.9

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 19							
O=21 15 23.3			+/− 0.12 SEC				
LAT=17.37 S			+/− 2.11 KM				
LONG=167.84 E			+/− 1.91 KM				
DEPTH=29 KM			+/− 0.80 KM				
mb(NEIS)=4.7							
STATIONS USED=18, STAND DEV=2.33 SEC							
MDJ	70.9	332	PC	21 26 45.1	4.9		
CN2	72.2	329	EP	21 26 48.0	0.0		
BJI	74.7	321	(P)	21 27 01.5	− 1.1		
KMI	76.2	302	EP	21 27 13.0	1.5		
1984 4 20							
O=03 05 46.2			+/− 0.07 SEC				
LAT=22.87 S			+/− 1.13 KM				
LONG=115.17 W			+/− 1.82 KM				
DEPTH=29 KM			±/− 0.39 KM				
STATIONS USED=6. STAND DEV=1.19 SEC							
KMI	145.4	281	EPKP	03 25 24.0	1.4		
GTA	146.1	307	EPKP	03 25 21.6	− 2.1		
1984 4 20							
O=05 12 40.2			+/− 0.02 SEC				
LAT=42.17 N			+/− 0.02 KM				
LONG=143.33 E			+/− 0.01 KM				
DEPTH=56 KM							
STATIONS USED=6, STAND DEV=0.84 SEC							
CN2	13.2	283	EP	05 15 47.5	0.5		
TIA	21.1	262	EP	05 17 20.9	− 1.8		
1984 4 20							
O=06 31 08.4			+/− 0.88 SEC				
LAT=50.01 N			+/− 2.41 KM				
LONG=148.93 E			+/− 2.49 KM				
DEPTH=569 KM			+/− 5.35 KM				
mb(NEIS)=6.0							
STATIONS SED=106, STAND DEV=1.58 SEC							
MDJ	14.2	255	IPD	06 34 08.5	− 0.6		
			IS	06 36 22.0	−12.6		
			S_mE			10.0	10.3
			SCS	06 45 01.0	− 1.1		
CN2	17.2	257	IPD	06 34 37.4	− 0.8		
			P_mZ			6.0	1.4
			XP	06 36 52.0	2.5		
			ES	06 37 19.0	− 8.4		
			S_mN			10.0	23.0
			SCS	06 45 07.0	− 3.4		
SNY	19.4	254	IPD	06 34 59.6	0.6		
			P_mZ			6.5	5.0
			IS	06 38 04.0	− 0.6		
			S_mN			9.0	10.4
			S_mE			8.0	11.8
			SCP	06 41 33.8	− 2.1		
			SCS	06 45 15.2	− 2.2		
DL2	22.3	250	IPD	06 35 25.3	− 0.6		
			XP	06 37 58.0	2.8		
			IS	06 38 48.0	− 4.6		
			S_mN			7.0	10.2
			S_mE			7.0	10.2
			ISCP	06 41 40.0	− 3.0		
			ISCS	06 45 22.0	− 6.0		
BJI	25.0	259	PD	06 35 50.0	− 0.2		
			P_mZ			6.0	2.1
			XP	06 38 29.0	4.8		
			S	06 39 33.0	− 2.8		
			S_mE			11.0	6.1
			SCP	06 41 48.0	− 2.3		
			PCS	06 42 44.0	0.3		
			SCS	06 45 36.0	− 3.2		
TTA	26.8	251	PD	06 36 05.3	− 0.3		
			S	06 39 59.5	− 3.8		
			SCP	06 41 51.5	− 3.9		
			PCS	06 42 52.0	3.2		
			SCS	06 45 43.0	− 3.8		
HHC	27.5	264	IPR	06 36 12.0	− 0.3		
			S	06 40 11.5	− 3.8		
SSE	28.1	238	PD	06 36 16.7	− 0.1		
			P_mZ			1.0	0.1
			XP	06 38 56.0	2.4		
			S	06 40 21.0	− 2.3		
			SCS	06 45 49.0	− 3.6		
NJ2	28.6	242	IPR	06 36 21.5	− 0.3		
			P_mZ			4.5	2.0
			XP	06 39 00.0	1.0		
			PCP	06 39 13.8	− 0.3		
			IS	06 40 29.0	− 3.4		
			S_mN			6.5	3.5
			S_mE			6.0	10.2
			SCP	06 41 59.2	− 2.0		
			SCS	06 45 54.0	− 1.4		
BTO	28.7	265	IPR	06 36 21.8	− 0.3		
			P_mN			6.0	0.8

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			P_mE			6.0	1.3
			P_mZ			6.0	3.4
			XP	06 39 02.0	2.9		
			S	06 40 28.0	− 4.8		
			S_mN			7.0	1.7
			S_mE			8.0	4.0
			ESCP	06 41 58.0	− 3.2		
TIY	28.7	258	IPD	06 36 23.4	0.5		
			P_mZ			5.0	3.9
			S	06 40 33.0	− 1.2		
			S_mE			10.0	6.2
XAN	33.3	256	IPD	06 37 00.6	− .6		
			P_mZ			5.0	2.4
			PP	06 38 40.0	− 3.6		
			PCP	06 39 26.5	− 0.1		
			XP	06 39 39.0	− 1.8		
			IS	06 41 37.0	− 6.7		
			S_mN			5.0	1.7
			S_mE			7.0	3.2
			SS	06 44 43.0	− 2.7		
QZH	34.3	234	IPR	06 37 10.0	0.2		
			P_mZ			5.0	1.3
			IS	06 41 56.0	− 3.4		
			S_mE			10.0	4.7
			SCS	06 46 25.0	0.6		
LZH	35.2	264	IPD	06 37 18.0	0.5		
			P_mZ			3.0	4.6
			PCP	06 39 32.5	0.2		
			XP	06 39 58.0	0.3		
			IS	06 42 09.5	− 3.7		
			S_mE			7.0	6.0
			SCS	06 46 26.0	− 3.2		
GTA	35.9	272	IPD	06 37 23.8	0.9		
			P_mZ			5.0	3.4
			PCP	06 39 34.4	0.2		
			S	06 42 19.6	− 3.5		
			S_mE			7.0	4.0
			SCP	06 42 25.3	− 0.7		
			LE			9.0	2.8
CD2	38.6	257	IPR	06 37 45.5	0.4		
			AP	06 39 28.0	4.3		
			SCP	06 42 35.4	− 0.9		
			IS	06 42 59.5	− 3.5		
			S_mE			6.0	8.3
			XS	06 46 00.0	0.9		
			SCS	06 46 45.5	− 3.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GZH	38.6	239	IPR	06 37 45.0	− 0.3		
			IS	06 43 00.0	− 3.4		
			S_mN			7.0	2.0
			S_mE			10.0	4.0
			SCS	06 46 49.0	0.2		
			LN			11.0	2.4
			LE			12.0	1.9
GYA	40.0	249	PR	06 37 56.0	0.0		
			PCP	06 39 46.0	− 1.2		
			S	06 43 18.0	− 4.7		
			S_mE			7.0	7.8
			PCS	06 43 37.0	1.9		
			SCS	06 46 53.0	− 3.6		
WMQ	41.2	285	IPD	06 38 06.5	0.1		
			P_mZ			4.0	4.6
			AP	06 39 49.0	2.5		
			SCP	06 42 44.0	− 2.5		
			S	06 43 39.0	− 2.2		
			XS	06 46 42.0	2.2		
			SCS	06 46 59.0	− 5.4		
			LN			10.0	3.4
KMI	43.3	252	IPR	06 38 23.0	0.1		
			P_mZ			4.0	4.4
			PCP	06 39 59.0	0.5		
			PCS	06 43 53.5	4.9		
			IS	06 44 08.0	− 3.0		
			S_mE			8.0	8.0
			XS	06 47 16.0	4.5		
QZN	43.8	239	IPD	06 38 27.0	0.4		
			PCP	06 40 00.5	0.3		
			S	06 44 14.0	− 3.7		
			S_mN			6.0	2.1
			S_mE			8.0	6.9
			XS	06 47 21.5	2.3		
LSA	47.5	267	IPD	06 38 56.1	1.1		
			PCS	06 44 08.9	3.2		
			S	06 45 00.2	− 9.0		
			S_mE			7.0	3.2
			SCS	06 47 45.2	0.7		
KSH	50.9	287	IPR	06 39 20.0	− 0.5		
			PCP	06 40 26.0	− 0.1		
			AP	06 41 11.0	4.8		
			S	06 45 57.0	1.3		
			S_mE			6.0	5.0
			SCS	06 48 07.0	− 1.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 20							
O = 09 55 38.8			+/− 0.82 SEC				
LAT = 5.58 N			+/− 3.76 KM				
LONG = 125.86 E			+/− 3.21 KM				
DEPTH = 114 KM			+/− 5.06 KM				
mb(NEIS) = 5.5							
STATIONS USED = 82, STAND DEV = 2.69 SEC							
QZH	20.5	340	PR	10 00 12.0	2.3		
			S	10 03 57.0	9.4		
			SmN			5.0	1.1
			SmE			7.0	0.7
QZN	20.6	311	EP	10 00 11.4	0.9		
			S	10 03 57.0	8.0		
			SmN			10.0	1.0
			SmE			9.5	2.8
GZH	21.2	326	PC	10 00 19.5	2.7		
			AP	10 00 43.0	3.7		
			XP	10 00 53.5	− 0.3		
			S	10 04 07.0	6.3		
			SmN			9.0	1.9
			SmE			9.0	2.0
SSE	25.8	350	EP	10 01 02.0	1.1		
			S	10 05 26.0	6.4		
NJ2	27.1	346	EP	10 01 16.6	3.0		
			XP	10 01 50.7	− 1.0		
			S	10 05 45.0	2.9		
GYA	27.7	320	P	10 01 20.0	1.2		
			PCP	10 04 33.2	0.7		
			S	10 05 55.0	3.7		
KMI	29.5	313	PC	10 01 36.0	1.2		
			AP	10 01 57.5	− 1.6		
			ES	10 06 22.0	2.1		
TIA	31.5	346	EP	10 01 56.6	4.0		
			PCP	10 04 42.7	0.4		
			ES	10 07 02.0	10.3		
			SmN			7.0	0.9
			SmE			7.0	0.4
XAN	32.4	333	P	10 01 58.6	− 1.6		
			EPP	10 03 05.0	− 6.2		
			PCP	10 04 44.8	0.2		
			S	10 07 01.0	− 4.2		
CD2	32.7	323	EP	10 02 03.0	0.5		
			EAP	10 02 23.0	− 4.3		
			ES	10 07 09.5	0.1		
DL2	33.4	353	EP	10 02 09.0	0.2		
			EXP	10 02 43.0	− 4.5		
			ES	10 07 22.0	1.2		
TIY	34.2	340	P	10 02 16.8	0.6		
			ES	10 07 36.5	2.3		
BJI	35.4	347	EP	10 02 25.0	− 0.9		
			(S)	10 07 50.0	− 1.7		
			SCS	10 12 37.0	6.6		
SNY	36.2	357	IPD	10 02 33.0	0.7		
			AP	10 02 57.0	− 0.7		
			S	10 08 05.0	1.7		
			SCS	10 12 40.0	5.5		
LZH	36.5	329	EP	10 02 36.0	0.8		
			PmZ			1.5	0.1
			ES	10 08 06.0	− 2.6		
HHC	37.4	342	EP	10 02 42.0	− 0.7		
BTO	37.7	340	EP	10 02 42.9	− 2.1		
CN2	38.1	359	PD	10 02 48.0	− 0.3		
			XP	10 03 26.0	− 1.4		
			EPP	10 04 21.0	1.4		
			PCP	10 05 00.8	− 0.5		
			S	10 08 30.0	− 2.4		
			SmN			6.0	0.6
			SCP	10 08 40.0	3.1		
			PCS	10 08 49.0	0.2		
			SCS	10 12 46.0	0.7		
MDJ	39.0	4	PD	10 02 57.2	1.0		
			S	10 08 50.0	3.2		
			SmN			7.0	1.3
			XS	10 09 35.0	3.6		
LSA	40.6	310	EP	10 03 12.3	2.7		
GTA	41.1	328	P	10 03 13.8	0.5		
WMQ	50.7	324	PD	10 04 28.7	− 0.9		
			PmZ			1.7	0.09
			AP	10 04 55.5	− 0.4		
			SCP	10 09 30.0	1.6		
			ES	10 11 34.5	− 0.6		
			SCS	10 14 04.7	− 0.1		
1984 4 20							
O = 11 13 21.2			+/− 0.07 SEC				
LAT = 40.50 N			+/− 0.02 KM				
LONG = 109.40 E			+/− 0.03 KM				
DEPTH = 0 KM							
ML (CHINA) = 3.3/10							
STATIONS USED = 12, STAND DEV = 2.19 SEC							
BTO	0.5	78	IPGD	11 13 28.9	− 1.1		
			SG	11 13 35.6	− 0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SmN	ML=3.1		0.1	1.0
			SmE			0.1	1.0
HHC	1.7	77	IPNC	11 13 50.4	− 1.8		
			SN	11 14 11.8	− 3.2		
TIY	3.6	138	IPB	11 14 26.1	0.5		
			SG	11 15 12.2	− 3.3		
			SmN	ML=3.3		0.4	0.06
			SmE			0.4	0.09
XAN	6.5	183	EPN	11 14 58.8	− 1.3		
			SN	11 16 10.0	− 5.6		
			SG	11 16 42.6	− 1.0		
			SmN	ML=3.7		1.0	0.04
			SmE			1.0	0.04
GTA	7.4	264	EPN	11 15 10.6	− 3.4		

1984 4 20
O=11 40 59.1 +/− 0.38 SEC
LAT=34.22 N +/− 1.32 KM
LONG=58.45 E +/− 1.20 KM
DEPTH=58 KM +/− 2.29 KM
Ms(CHINA)=4.7/1, mb(NEIS)=4.5
STATIONS USED=21, STAND DEV=1.22 SEC

KSH	15.0	64	EP	11 44 27.0	− 2.1		
			LN	Ms=4.7		9.0	2.1
WMQ	24.6	58	EP	11 46 17.1	1.9		
GTA	33.3	68	P	11 47 34.4	0.4		
KMI	39.3	91	PC	11 48 24.5	− 0.1		
GYA	42.0	87	P	11 48 46.4	− 0.6		
TIA	47.3	69	EP	11 49 29.2	− 0.4		

1984 4 20
O=14 42 27.2 +/− 1.97 SEC
LAT=47.55 N +/− 7.33 KM
LONG=155.80 E +/− 5.80 KM
DEPTH=73 KM +/− 12.19 KM
mb(NEIS)=5.0
STATIONS USED=32, STAND DEV=2.97 SEC

MDJ	18.4	270	EP	14 46 35.0	− 3.7		
DL2	26.2	263	EP	14 47 56.0	− 1.0		
XAN	37.4	266	EP	14 49 36.0	0.7		
CD2	42.8	266	EP	14 50 20.0	0.4		
GYA	43.7	259	P	14 50 28.4	1.4		
WMQ	46.3	291	EP	14 50 47.5	− 0.8		
KMI	47.2	261	EP	14 50 57.5	2.4		
			ES	14 57 46.0	4.1		

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

1984 4 20
O=17 09 57.4 +/− 0.05 SEC
LAT=31.89 S +/− 1.33 KM
LONG=72.21 W +/− 0.94 KM
DEPTH=13 KM +/− 0.51 KM
Msz(NEIS)=4.8, mb(NEIS)=5.3
STATIONS USED=17, STAND DEV=0.94 SEC

WMQ	160.2	47	PKP	17 30 09.0	11.3		
GTA	170.1	38	PKP	17 30 07.6	1.5		
TIA	171.1	301	EPKP	17 30 07.4	0.9		
WHN	174.2	258	EPKP	17 30 07.4	− 0.5		

1984 4 21
O=01 25 14.4 +/− 0.08 SEC
LAT=36.10 N +/− 0.57 KM
LONG=27.12 E +/− 0.51 KM
DEPTH=75 KM +/− 0.82 KM
mb(NEIS)=4.6
STATIONS USED=12, STAND DEV=0.78 SEC

BJI	67.3	56	EP	01 36 03.5	− 0.4
TIA	69.8	59	EP	01 36 19.8	0.2

1984 4 21
O=04 05 01.9 +/− 0.04 SEC
LAT=44.04 N +/− 0.02 KM
LONG=147.67 E +/− 0.01 KM
DEPTH=63 KM
mb(NEIS)=5.0
STATIONS USED=31, STAND DEV=1.24 SEC

MDJ	13.0	278	EP	04 08 05.0	− 0.3
CN2	16.0	276	PC	04 08 42.2	− 2.6
DL2	20.1	264	EP	04 09 32.4	− 1.3
BJI	23.7	271	EP	04 10 08.0	− 0.6
TIA	24.5	261	EP	04 10 18.4	1.2
HHC	26.7	275	EP	04 10 40.4	2.7
BTO	27.9	276	EP	04 10 50.3	1.7
XAN	31.5	264	EP	04 11 21.2	1.0
GYA	37.4	255	EP	04 12 09.6	− 1.2
WMQ	42.3	291	P	04 12 53.5	1.5

1984 4 21
O=04 29 43.8 +/− 0.23 SEC
LAT=16.80 N +/− 2.03 KM
LONG=120.00 E +/− 1.97 KM
DEPTH=42 KM +/− 2.26 KM
Ms(CHINA)=4.2/13, mb(NEIS)=4.9

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=56, STAND DEV=1.73 SEC							
QZH	8.2	350	EP	04 31 43.1	− 0.2		
			ES	04 33 16.0	0.1		
			LN	Ms=3.9		13.0	1.0
GZH	8.9	316	E(P)	04 31 47.6	− 4.6		
			LN	Ms=4.3		15.0	2.1
			LE			15.0	2.5
QZN	9.9	284	IPC	04 32 02.4	− 4.6		
			S	04 33 47.9	−10.4		
			LN			0.7	0.7
			LE			0.7	0.03
NJ2	15.2	356	EP	04 33 19.6	1.9		
			ES	04 36 10.0	4.3		
			LN	Ms=4.0		12.0	0.6
GYA	15.7	310	EP	04 33 23.6	− 0.1		
			S	04 36 22.0	5.4		
			LN	Ms=4.2		12.0	0.9
KMI	18.1	300	EP	04 33 56.5	2.1		
			AP	04 34 04.0	1.2		
			XP	04 34 10.0	1.3		
			ES	04 37 11.0	0.2		
TIA	19.5	353	EP	04 34 10.0	− 0.5		
			ES	04 37 46.0	3.0		
			LN	Ms=4.3		16.0	0.8
			LE			16.0	0.6
XAN	19.8	331	EP	04 34 13.2	− 1.1		
			ES	04 37 54.5	4.0		
			LN	Ms=4.2		13.0	0.7
CD2	20.4	316	EP	04 34 20.0	− 0.2		
			S	04 37 57.0	− 4.8		
			LE	Ms=4.2		12.0	0.7
TIY	21.9	343	EP	04 34 35.5	0.4		
			ES	04 38 34.0	4.4		
			LN	Ms=4.4		15.0	1.1
DL2	22.1	3	EP	04 34 38.0	1.0		
			S	04 38 37.0	4.0		
			LN	Ms=4.0		14.0	0.4
BJI	23.4	352	EP	04 34 50.5	0.5		
			ES	04 39 06.0	9.3		
			S-E			5.5	0.2
			LN	Ms=4.1		14.0	0.5
LZH	24.0	326	IPR	04 34 57.5	1.6		
			P-Z			2.0	0.2
HHC	25.1	344	EP	04 35 07.0	0.8		
SNY	25.1	6	PD	04 35 06.0	− 0.8		
BTO	25.2	341	EP	04 35 08.0	0.0		
CN2	27.3	8	EP	04 35 25.0	− 2.0		
GTA	28.6	326	P	04 35 38.9	0.2		
MDJ	28.9	14	EP	04 35 40.5	− 0.7		
LSA	29.4	301	P	04 35 46.7	0.8		
WMQ	38.4	321	PC	04 37 04.4	1.3		
1984 4 21							
O=05 22 37.3			+/− 0.04 SEC				
LAT=4.30 S			+/− 0.58 KM				
LONG=152.21 E			+/− 0.48 KM				
DEPTH=39 KM			+/− 0.19 KM				
mb(NEIS)=4.4							
STATIONS USED=7, STAND DEV=0.78 SEC							
KMI	56.2	304	EP	05 32 16.0	− 0.7		
CD2	58.0	310	EP	05 32 27.8	− 1.1		
1984 4 21							
O=07 33 34.4			+/− 0.20 SEC				
LAT=35.91 N			+/− 1.03 KM				
LONG=21.70 E			+/− 1.10 KM				
DEPTH=53 KM			+/− 2.04 KM				
mb(NEIS)=4.8							
STATIONS USED=39, STAND DEV=0.66 SEC							
WMQ	50.1	59	PD	07 42 26.5	− 0.1		
LSA	57.6	74	PC	07 43 22.7	0.3		
GTA	60.1	61	P	07 43 38.8	− 0.5		
LZH	64.4	62	P	07 44 08.5	0.5		
CD2	66.7	67	EP	07 44 23.4	0.4		
HHC	67.5	55	EP	07 44 28.6	0.5		
XAN	69.0	62	EP	07 44 37.1	− 0.2		
BJI	71.0	54	EP	07 44 48.5	− 0.8		
GYA	71.2	70	P	07 44 50.6	0.2		
CN2	74.8	46	IPD	07 45 11.2	− 0.1		
MDJ	76.7	44	EP	07 45 23.5	1.2		
NJ2	77.1	59	EP	07 45 24.8	− 0.1		
1984 4 21							
O=11 24 41.3			+/− 0.78 SEC				
LAT=11.35 N			+/− 2.58 KM				
LONG=94.92 E			+/− 3.92 KM				
DEPTH=10 KM			+/− 8.14 KM				
Ms(CHINA)=4.4/4, mb(NEIS)=4.6							
STATIONS USED=34, STAND DEV=2.31 SEC							
KMI	15.6	27	EP	11 28 25.0	1.9		
			ES	11 31 19.0	2.3		
			LE	Ms=4.4		10.0	1.2

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZN	16.3	60	P	11 28 35.6	3.5		
LSA	18.6	349	P	11 28 59.6	− 1.8		
			ES	11 32 29.2	2.7		
GYA	18.7	34	P	11 29 03.4	1.4		
			S	11 32 24.0	− 3.6		
			LN	Ms=4.3		12.0	0.9
GZH	21.1	53	EP	11 29 31.0	2.4		
CD2	21.1	21	EP	11 29 26.4	− 2.6		
			S	11 33 16.0	− 3.4		
			LE	Ms=4.4		10.0	0.8
LZH	25.9	16	EP	11 30 15.0	− 1.0		
XAN	26.0	27	EP	11 30 13.0	− 3.2		
			ES	11 34 42.5	− 2.1		
			LN	Ms=4.4		11.0	0.5
			LE			12.0	0.4
GTA	28.3	3	P	11 30 36.2	− 1.4		
TIA	31.9	35	EP	11 31 12.2	2.9		
HHC	32.8	23	EP	11 31 16.0	− 1.9		
WMQ	32.9	350	EP	11 31 18.1	− 0.7		
BJI	34.2	29	EP	11 31 30.5	0.9		
SNY	39.4	34	EP	11 32 13.8	0.6		
CN2	41.7	33	EP	11 32 31.0	− 1.5		

1984 4 21
O=12 36 08.5 +/− 0.21 SEC
LAT=15.77 S +/− 5.17 KM
LONG=172.59 W +/− 3.64 KM
DEPTH=25 KM +/− 1.14 KM
Ms(CHINA)=5.6/16, mb(NEIS)=5.4
STATIONS USED=58, STAND DEV=1.85 SEC

QZH	78.3	300	PU	12 48 08.0	− 0.9		
			PmZ			9.0	1.2
			ES	12 57 55.0	− 7.0		
			LE	Ms=5.3		20.0	1.4
MDJ	79.8	322	PC	12 48 16.7	− 0.4		
			PmZ			6.0	1.6
			AP	12 48 30.0	4.8		
			ES	12 58 15.0	− 2.7		
			SmN			10.0	1.4
			SKS	12 58 25.0	− 1.2		
NJ2	81.0	306	PU	12 48 22.0	− 1.5		
			PmZ			10.0	1.2
			SCS	12 58 36.0	− 9.2		
			LE	Ms=5.3		17.0	..2
CN2	81.9	319	IPU	12 48 27.0	− 1.0		
			PmZ			6.0	1.6
			AP	12 48 40.0	3.9		
			PP	12 51 31.5	− 4.9		
			PPmZ			6.0	0.5
			ES	12 58 28.0	−11.3		
			SmN			9.0	1.0
			SCS	12 58 50.0	− 2.2		
			LE	Ms=5.8		20.0	4.0
DL2	82.0	314	PU	12 48 28.5	− 0.2		
			ES	12 58 39.0	− 1.5		
			SmN			10.0	2.0
			LN	Ms=5.3		14.0	1.0
GZH	82.1	296	EP	12 48 31.0	2.0		
			S	12 58 34.0	− 7.2		
SNY	82.1	317	PC	12 48 28.2	− 0.9		
			PmZ			17.0	2.0
			S	12 58 29.5	−11.8		
			SmN			13.0	1.5
			SmE			14.0	0.9
			XS	12 58 50.0	− 4.9		
			LN	Ms=5.2		20.0	1.1
			LE			20.0	1.8
TIA	84.0	310	PD	12 48 39.6	0 4		
			PmN			8.0	0.3
			PmE			8.0	0.5
			PmZ			8.0	1.3
			PP	12 51 56.0	2.2		
			S	12 59 00.0	− 1.2		
			XS	12 59 13.5	− 1.3		
			LN	Ms=5.6		22.5	1.5
			LE			22.5	2.1
BJI	86.3	313	EP	12 48 49.5	− 0.8		
			PmE			6.0	0.4
			ES	12 59 24.0	0.9		
			SmN			11.0	2.8
			SmE			11.0	1.0
			EXS	12 59 40.0	3.2		
TIY	88.1	309	IPU	12 48 59.0	− 0.1		
			PmZ			8.0	1.3
			PP	12 52 21.0	− 6.2		
			PPmZ			9.0	0.9
			ES	12 59 28.0	−12.3		
			SmE			12.0	1.2
			XS	12 59 54.0	0.2		
			LE	Ms=5.6		19.0	2.5
GYA	88.9	297	PU	12 49 03.0	− 0.1		
			S	12 59 39.0	− 9.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SmE			12.0	1.6
XAN	89.5	305	PC	12 49 05.3	− 0.4		
			PmZ			9.0	0.7
			PP	12 52 31.0	− 7.3		
			LE	Ms=4.8		18.0	0.3
HHC	89.8	312	PU	12 49 08.0	0.5		
			LN	Ms=5.8		10.0	1.3
			LE			10.0	1.6
KMI	91.9	295	EP	12 49 17.5	0.4		
			PP	12 52 52.0	− 5.6		
			ESKS	12 59 40.0	− 5.1		
			S	13 00 03.0	−12.1		
			SmE			12.0	1.0
			LE	Ms=5.6		10.0	1.2
CD2	92.7	301	EP	12 49 20.0	− 0.5		
LZH	94.1	306	PC	12 49 27.0	0.0		
			PmZ			2.0	0.08
GTA	98.0	308	P	12 49 44.9	− 0.1		
			LE	Ms=5.6		20.0	2.2

1984 4 21

O = 13 57 24.8 +/− 0.16 SEC
LAT = 33.52 S +/− 3.19 KM
LONG = 55.97 E +/− 4.82 KM
DEPTH = 0 KM +/− 2.36 KM
Ms(CHINA) = 5.2/1, mb(NEIS) = 5.5
STATIONS USED = 28, STAND DEV = 4.75 SEC

LSA	71.1	31	P	14 08 48.0	− 0.5		
			S	14 18 04.2	− 1.9		
			SmE			6.0	0.5
KMI	73.3	43	EP	14 09 01.5	0.2		
			ES	14 18 26.0	− 4.8		
KSH	74.9	15	P	14 09 12.0	1.5		
			ES	14 18 51.0	2.5		
GYA	76.7	45	P	14 09 20.0	− 0.2		
			S	14 19 03.0	− 4.3		
CD2	78.4	40	EP	14 09 29.0	− 0.7		
WMQ	82.2	22	PD	14 09 49.5	− 0.8		
			S	14 20 08.0	1.7		
			SmN			8.0	0.6
LZH	82.4	37	P	14 09 52.0	0.5		
			PmZ			2.0	0.2
GTA	83.2	32	P	14 09 54.9	− 0.2		
			S	14 20 16.5	0.8		
			SmN			6.0	0.3
XAN	83.6	41	PD	14 09 56.0	− 1.2		
			ES	14 20 22.0	2.2		
NJ2	88.1	49	PC	14 10 20.5	1.0		
			ES	14 21 00.0	− 3.5		
			SmE			6.0	0.3
TIY	88.2	41	P	14 10 20.8	0.7		
			SKS	14 20 44.5	− 2.1		
			S	14 21 05.5	0.9		
			SmE			8.0	0.7
BTO	89.0	38	EP	14 10 24.0	0.0		
			ESKS	14 20 49.1	− 2.5		
			ES	14 21 06.5	− 5.7		
TIA	89.8	45	EP	14 10 27.4	− 0.4		
HHC	90.0	38	EP	14 10 29.2	0.6		
BJI	91.9	41	EP	14 10 36.5	− 0.8		
DL2	94.3	45	EP	14 10 48.0	− 0.3		
CN2	99.6	43	EP	14 11 10.0	− 2.5		

1984 4 21

O = 18 43 08.8 +/− 0.04 SEC
LAT = 15.74 S +/− 0.77 KM
LONG = 172.86 W +/− 0.64 KM
DEPTH = 33 KM +/− 0.25 KM
mb(NEIS) = 4.8
STATIONS USED = 22, STAND DEV = 0.69 SEC

MDJ	79.6	322	EP	18 55 15.0	− 0.2		
CN2	81.7	319	EP	18 55 25.4	− 0.7		
BJI	86.1	313	EP	18 55 48.0	− 0.3		
TIY	87.9	310	EP	18 55 57.9	0.8		
XAN	89.3	305	EP	18 56 03.3	− 0.4		

1984 4 21

O = 21 16 57.9 +/− 0.51 SEC
LAT = 36.53 N +/− 1.92 KM
LONG = 69.34 E +/− 2.61 KM
DEPTH = 8 KM +/− 5.34 KM
Ms(CHINA) = 4.8/13, Msz(NEIS) = 4.3, mb(NEIS) = 5.1
STATIONS USED = 53, STAND DEV = 1.62 SEC

KSH	6.0	58	EPN	21 18 32.0	2.5		
			LG_2	21 20 24.0	8.1		
			LE	Ms=5.4		8.0	31.9
WMQ	15.8	56	PC	21 20 42.0	− 0.7		
			PP	21 20 56.5	1.7		
			SS	21 23 48.2	− 7.7		
			LG_1	21 25 19.0	5.2		
			LN	Ms=5.2		8.0	3.2
			LE			6.0	4.1

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LSA	19.5	104	P	21 21 28.7	0.0		
			ES	21 25 04.6	1.3		
			LN	Ms=4.6		9.0	1.1
			LE			11.0	1.1
GTA	24.1	73	P	21 22 17.2	1.3		
			ES	21 26 34.0	2.6		
			LE	Ms=4.3		10.0	0.5
LZH	27.7	80	EP	21 22 51.5	2.1		
			ES	21 27 39.0	8.1		
			LN	Ms=4.9		10.0	1.0
			LE			10.0	1.2
CD2	29.1	91	EP	21 23 02.2	0.8		
			ES	21 27 47.0	-5.3		
			LN	Ms=4.8		10.0	1.1
KMI	30.7	102	EP	21 23 18.5	2.3		
			ES	21 28 11.0	-7.6		
			LN	Ms=4.7		16.0	1.5
BTO	31.9	70	EP	21 23 26.6	0.3		
			ESS	21 30 21.0	-5.0		
XAN	32.3	82	EP	21 23 28.5	-1.1		
			LN	Ms=4.9		10,0	0.9
			LE			10.0	1.0
GYA	33.2	96	P	21 23 38.4	0.5		
TIY	34.2	74	EP	21 23 47.0	0.8		
			ES	21 29 13.0	0.8		
			LN	Ms=4.9		9.0	1.1
BJI	36.6	69	EP	21 24 08.0	1.1		
TIA	38.2	75	EP	21 24 20.6	0.5		
			ES	21 30 06.0	-7.6		
			LN	Ms=4.7		13.0	0.4
			LE			10.0	0.6
GZH	40.1	96	P	21 24 37.9	1.5		
			(S)	21 30 42.0	-1.3		
NJ2	40.8	81	EP	21 24 43.4	1.5		
			LN	Ms=4.7		10.0	0.5
SNY	41.8	65	EP	21 24 50.1	0.0		
			ES	21 31 09.5	1.5		
			LN	Ms=4.9		10.0	0.7
			LE			12.0	0.6
CN2	42.8	62	EP	21 25 00.0	1.8		
MDJ	45.6	60	EP	21 25 21.0	0.4		

1984 4 22
O=02 45 53.6 +/- 0.39 SEC
LAT=36.60 N +/- 2.19 KM
LONG=69.25 E +/- 2.38 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=32 KM +/- 3.98 KM							
Ms(CHINA)=4.8/9, mb(NEIS)=5.1							
STATIONS USED=46, STAND DEV=1.93 SEC							
KSH	6.0	59	PN	02 47 27.0	4.0		
			LG_2	02 49 15.0	2.5		
			LE	Ms=4.4		7.0	2.4
WMQ	15.8	57	P	02 49 34.3	-1.4		
			SS	02 52 41.0	-7.2		
			LE	Ms=4.8		8.0	2.3
LSA	19.6	104	P	02 50 21.1	-1.1		
			ES	02 54 01.0	4.9		
			LN	Ms=4.5		9.0	0.9
			LE			12.0	0.8
LZH	27.8	80	IPC	02 51 42.5	0.3		
CD2	29.1	91	EP	02 51 55.0	0.8		
BTO	31.9	70	EP	02 52 19.7	0.9		
			(S)	02 57 28.0	1.1		
			LN	Ms=4.8		14.0	1.0
			LE			14.0	0.9
XAN	32.3	82	P	02 52 22.0	-0.3		
			LN			10.0	9.4
			LE			10.0	0.6
GYA	33.3	96	P	02 52 30.2	-0.5		
TIY	34.2	74	EP	02 52 39.2	0.5		
			EXS	02 58 17.0	-0.6		
			LN	Ms=4.8		14.0	1.1
BJI	36.6	69	EP	02 53 00.0	0.6		
			(S)	02 58 45.0	4.9		
TIA	38.2	75	EP	02 53 13.3	0.8		
NJ2	40.9	81	EP	02 53 34.6	0.2		
			LN	Ms=4.5		10.0	0.3
CN2	42.8	62	EP	02 53 50.0	-0.5		
MDJ	45.6	60	EP	02 54 12.5	-0.4		

1984 4 22
O=03 33 00.6 +/- 0.30 SEC
LAT=21.74 S +/- 2.38 KM
LONG=179.37 W +/- 2.37 KM
DEPTH=590 KM +/- 3.09 KM
mb(NEIS)=5.7
STATIONS USED=83, STAND DEV=1.31 SEC

QZH	76.0	304	EP	03 43 47.5	-2.8		
			AP	03 45 53.0	0.0		
			IS	03 52 46.0	-1.1		
			SmN			9.0	1.5
			SmE			9.0	3.0

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SSE	77.5	310	PR	03 43 58.0	− 0.2		
			AP	03 45 59.0	− 2.5		
			EPP	03 47 02.0	− 2.6		
			S	03 53 02.0	− 0.6		
			SKS	03 53 16.0	4.7		
GZH	79.2	300	PD	03 44 08.0	0.7		
			I S	03 53 23.0	2.7		
			SmN			10.0	1.7
NJ2	79.7	310	PR	03 44 10.0	0.2		
			AP	03 46 12.0	− 1.9		
			PP	03 47 20.0	− 1.9		
			PPmZ			10.0	1.5
			S	03 53 25.0	− 0.1		
			SmN			9.5	2.6
			SmE			9.5	2.6
			SCS	03 53 48.0	9.8		
QZN	80.2	294	IPD	03 44 13.7	1.3		
			S	03 53 31.0	0.7		
			SmN			10.0	1.0
			SmE			9.0	2.2
MDJ	80.8	325	EP	03 44 15.0	− 0.5		
			XP	03 47 16.0	− 2.5		
			ISKS	03 53 34.0	− 0.6		
			SmE			10.0	3.2
DL2	81.8	317	P	03 44 19.0	− 1.4		
			PmZ			4.0	1.1
			AP	03 46 24.0	− 1.2		
			XP	03 47 26.5	2.9		
			PP	03 47 38.0	− 1.3		
			SKS	03 53 41.0	− 0.2		
			ES	03 53 46.0	0.2		
			SmN			10.0	2.0
			SmE			11.0	3.4
CN2	82.5	323	IPD	03 44 23.8	− 0.4		
			PmZ			4.0	1.3
			IAP	03 46 28.0	− 1.3		
			XP	03 47 29.0	1.5		
			ISKS	03 53 45.0	− 1.3		
			S	03 53 57.0	3.9		
			SmN			6.0	1.8
			SmE			6.0	1.6
TIA	83.2	313	PD	03 44 27.6	0.1		
			PmN			7.0	0.2
			PmE			7.0	0.3
			PmZ			7.0	0.8
			AP	03 46 32.5	− 0.3		
			XP	03 47 35.0	4.0		
			PP	03 47 42.5	− 7.9		
			SKS	03 53 51.5	0.6		
			S	03 53 56.0	− 3.6		
			SmN			7.0	1.7
			SmE			8.0	2.6
BJI	85.9	316	EP	03 44 40.0	− 0.6		
			PmZ			6.0	0.7
			AP	03 46 45.0	− 1.9		
			SKS	03 54 08.0	− 0.7		
			S	03 54 28.0	2.8		
			SmN			11.0	1.6
			SmE			10.0	2.2
GYA	86.2	300	P	03 44 42.6	0.5		
			AP	03 46 48.0	− 0.3		
			SKS	03 54 12.0	1.5		
			S	03 54 31.0	3.0		
			SmN			7.0	1.4
			SmE			7.0	2.9
TIY	87.2	312	PR	03 44 47.0	0.2		
			PmZ			1.0	0.2
			AP	03 46 52.0	− 1.3		
			SKS	03 54 17.0	0.1		
			S	03 54 42.5	5.4		
			SmE			12.0	3.8
XAN	87.9	307	PD	03 44 50.3	0.2		
			PmZ			6.0	1.0
			AP	03 46 55.0	− 1.9		
			PP	03 48 26.0	− 2.6		
			SKS	03 54 20.0	− 1.3		
			I S	03 54 48.0	4.3		
			SmN			10.0	3.5
			SmE			10.0	3.8
			SS	04 01 05.0	13.0		
KMI	88.8	297	PD	03 44 55.0	0.5		
			PP	03 48 36.0	0.2		
			SKS	03 54 28.0	1.3		
			SCS	03 54 56.0	2.6		
HHC	89.3	314	PC	03 44 57.7	0.8		
			AP	03 47 05.0	1.0		
			SKS	03 54 31.0	1.1		
			S	03 55 03.0	6.4		
			SmN			8.0	2.0
BTO	90.2	314	PR	03 45 01.0	− 0.1		
			AP	03 47 07.0	− 1.4		
			SKS	03 54 34.0	− 1.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	03 55 11.0	6.4		
CD2	90.4	303	EP	03 45 03.2	1.4		
			AP	03 47 07.0	− 2.2		
			SKS	03 54 35.0	− 1.2		
			S	03 55 12.0	6.1		
			S m E			5.0	7.0
LZH	92.5	307	PD	03 45 12.0	0.4		
			AP	03 47 18.0	− 1.1		
			SKS	03 54 47.0	− 1.0		
			S	03 55 29.0	4.5		
GTA	96.8	303	P	03 45 31.0	0.1		
			SKS	03 55 08.9	− 1.3		
			S	03 56 07.0	6.5		
			S m E			8.0	0.9
LSA	100.0	297	EP	03 45 46.2	0.3		
			SKS	03 55 25.0	− 1.7		
			S	03 56 30.0	1.6		
KSH	114.5	304	EPKP	03 50 33.0	− 2.3		

1984 4 22

O = 06 14 22.9 +/− 0.56 SEC
LAT = 0.17 S +/− 12.63 KM
LONG = 20.01 W +/− 10.60 KM
DEPTH = 5 KM +/− 4.13 KM
Ms(CHINA) = 5.9/11, Msz(NEIS) = 5.7, mb(NEIS) = 5.8
STATIONS USED = 40, STAND DEV = 5.28 SEC

KSH	94.7	50	EP	06 27 48.0	0.3		
			PP	06 31 41.0	3.9		
			ES	06 39 00.0	0.5		
			LN	Ms = 6.3		15.0	7.8
CD2	118.6	54	EPKP	06 33 17.4	4.1		
BTO	119.5	42	PKP	06 33 20.0	5.1		
XAN	121.6	49	EPKP	06 33 24.0	5.0		
			PP	06 34 53.0	− 1.0		
			LE	Ms = 5.7		17.0	1.6
TIY	122.5	43	EPKP	06 33 26.5	5.8		
			LN	Ms = 5.9		16.0	2.2
BJI	123.8	39	EPKP	06 33 28.0	4.8		
			LN	Ms = 5.8		16.0	1.6
			LE			16.0	0.8
TIA	126.5	43	EPKP	06 33 29.0	0.6		
			PP	06 35 24.0	− 3.0		
			ESS	06 52 31.0	2.3		
			LN	Ms = 5.9		22.5	1.9
			LE			21.0	1.8

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CN2	126.8	30	EPKP	06 33 28.5	− 0.4		
			EPP	06 35 22.0	− 6.5		
			SKS	06 40 33.0	− 4.6		
			LN	Ms = 5.9		17.0	2.0
DL2	127.9	37	EPKP	06 33 29.0	− 2.1		
			EPP	06 35 37.0	1.0		
			LN	Ms = 5.9		15.0	1.6
			LE			16.0	1.3
MDJ	128.2	27	PKP	06 33 28.0	− 3.7		
NJ2	129.9	16	EPKP	06 33 30.2	− 0.7		
			PP	06 35 47.0	− 2.2		
			PP m Z			5.5	0.6
			LE	Ms = 5.7		14.0	1.0

1984 4 22

O = 13 39 31.1 +/− 0.08 SEC
LAT = 27.73 N +/− 1.77 KM
LONG = 56.62 E +/− 1.35 KM
DEPTH = 28 KM +/− 0.48 KM
Ms(CHINA) = 4.9/1, Msz(NEIS) = 4.5, mb(NEIS) = 4.9
STATIONS USED = 45, STAND DEV = 1.11 SEC

KSH	19.9	49	EP	13 44 04.0	0.6		
			ES	13 47 34.0	− 6.8		
			PCS	13 51 49.0	− 6.2		
			LN	Ms = 4.9		9.0	2.
WMQ	29.7	49	P	13 45 37.0	− 0.1		
LSA	30.3	77	EP	13 45 43.8	0.8		
LZH	40.6	65	P	13 47 11.5	0.6		
CD2	41.0	73	EP	13 47 14.3	0.5		
KMI	41.2	82	PD	13 47 16.5	0.7		
			AP	13 47 24.5	0.5		
			ES	13 53 28.0	0.0		
GYA	44.3	79	P	13 47 41.0	− 0.1		
XAN	44.9	68	EP	13 47 49.0	3.1		
BTO	45.4	59	EP	13 47 48.9	− 0.6		
TIY	47.4	63	EP	13 48 04.8	− 0.6		
BJI	50.1	59	EP	13 48 25.5	− 0.8		
TIA	51.3	64	EP	13 48 34.8	− 0.6		
SNY	55.5	56	EP	13 49 04.9	− 1.4		
CN2	56.6	54	IPC	13 49 13.0	− 1.1		

1984 4 22

O = 17 11 45.1 +/− 0.10 SEC
LAT = 9.08 N +/− 1.94 KM
LONG = 126.44 E +/− 1.51 KM
DEPTH = 16 KM +/− 0.55 KM

STA. CODE	△ deg	AZ deg.	PHASE	UTC h m s	RESID sec	T sec	A μ
Ms(CHINA)=4.2/7, Msz(NEIS)=4.5, mb(NEIS)=5.5							
STATIONS USED=77, STAND DEV=1.24 SEC							
QZH	17.5	335	EP	17 15 50.5	0.7		
GZH	18.7	319	PR	17 16 07.0	1.2		
			ES	17 19 31.0	− 0.7		
			LN	Ms=4.7		18.0	1.7
			LE			16.0	2.3
QZN	18.9	303	PC	17 16 08.8	1.3		
			S	17 19 33.5	− 1.2		
			SmN			11.0	0.8
			SmE			10.0	0.6
			LN	Ms=4.5		19.0	1.2
			LE			19.0	1.8
SSE	22.4	348	PC	17 16 46.5	1.4		
			PmZ			1.0	0.2
			ES	17 20 49.0	2.8		
NJ2	23.9.	343	PU	17 17 00.0	0.5		
			PmZ			4.0	0.3
			ES	17 21 04.0	− 8.4		
GYA	25.5	315	P	17 17 17.2	2.4		
			PCP	17 20 46.0	− 0.3		
			S	17 21 33.0	− 6.4		
KMI	27.6	308	PD	17 17 35.0	0.4		
			PCP	17 20 51.5	0.2		
			ES	17 22 09.0	− 5.5		
			LN	Ms=4.2		9.0	0.3
TIA	28.3	343	EP	17 17 39.8	− 0.7		
			PCP	17 20 53.2	0.3		
XAN	29.6	329	P	17 17 50.0	− 2.2		
DL2	30.0	352	P	17 17 56.2	0.5		
			EAP	17 18 06.5	4.2		
			ES	17 22 49.0	− 3.2		
CD2	30.3	318	EP	17 17 57.8	− 0.6		
TIY	31.2	338	EP	17 18 06.0	− 0.2		
BJI	32.2	345	EP	17 18 13.0	− 1.7		
			ES	17 23 24.0	− 1.9		
SNY	32.7	356	IPC	17 18 20.5	1.0		
			S	17 23 32.0	− 2.6		
			LN	Ms=4.2		20.0	0.4
LZH	33.9	326	EP	17 18 28.0	− 1.5		
HHC	34.3	339	PD	17 18 33.5	0.3		
CN2	34.6	358	IPC	17 18 36.0	0.2		
			PP	17 19 54.0	2.2		
			ES	17 24 04.0	0.1		
			SmE			7.0	0.2
			SCP	17 24 51.0	− 2.0		
			LE	Ms=4.2		10.0	0.2
BTO	34.6	337	EP	17 18 35.6	− 0.5		
MDJ	35.5	3	IPC	17 18 45.0	1.4		
GTA	38.5	326	IPC	17 19 08.1	− 0.4		
			PCP	17 21 21.9	0.6		
			S	17 25 04.6	1.2		
LSA	38.9	306	P	17 19 13.1	0.8		
WMQ	48.3	322	P	17 20 27.0	− 0.9		
			PmZ			1.5	0.09
			PCP	17 21 53.5	− 0.8		
			S	17 27 29.0	2.6		
			SCS	17 30 13.5	− 3.0		

1984 4 22

O=17 26 06.0 +/− 0.10 SEC
LAT=9.04 N +/− 1.95 KM
LONG=126.51 E +/− 1.45 KM
DEPTH=37 KM +/− 0.50 KM
mb(NEIS)=4.8
STATIONS USED=16, STAND DEV=1.45 SEC

BJI	32.2	345	EP	17 32 32.5	− 0.8		
SNY	32.8	355	EP	17 32 38.0	0.0		
CN2	34.6	358	EP	17 32 54.0	− 0.2		
MDJ	35.5	3	EP	17 33 03.5	1.5		

1984 4 22

O=20 22 36.5 +/− 0.13 SEC
LAT=30.39 N +/− 1.77 KM
LONG=84.29 E +/− 1.48 KM
DEPTH=29 KM +/− 0.58 KM
Ms(CHINA)=3.9/1, mb(NEIS)=4.8
STATIONS USED=14, STAND DEV=2.31 SEC

LSA	6.0	94	EPN	20 24 07.6	1.6		
			ESN	20 25 12.6	− 2.4		
			LE	Ms=3.9		7.0	0.8
GTA	15.6	50	EP	20 26 17.0	0.9		
GYA	20.1	95	EP	20 27 10.6	− 0.1		
XAN	21.1	73	EP	20 27 22.6	0.8		
CN2	35.1	55	EP	20 29 26.6	− 3.0		

1984 4 23

O=05 07 02.3 +/− 0.06 SEC
LAT=3.53 S +/− 1.14 KM
LONG=130.13 E +/− 1.72 KM
DEPTH=82 KM +/− 0.84 KM
mb(NEIS)=5.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=11, STAND DEV=0.44 SEC							
XAN	42.4	333	EP	05 14 50.7	0.0		
CN2	47.3	355	EP	05 15 29.0	− 0.9		
MDJ	47.9	359	EP	05 15 35.0	0.1		
1984 4 23							
O=08 48 28.8			**+/− 0.13 SEC**				
LAT=44.87 N			**+/− 2.98 KM**				
LONG=150.95 E			**+/− 2.12 KM**				
DEPTH=20 KM			**+/− 0.68 KM**				
mb(NEIS)=5.0							
STATIONS USED=49, STAND DEV=1.45 SEC							
MDJ	15.2	276	EP	08 52 05.5	1.3		
CN2	18.3	275	EP	08 52 41.5	− 1.7		
			EAP	08 52 47.5	− 1.5		
			ES	08 56 02.0	− 1.8		
			LN			13.0	0.4
SNY	20.1	270	EP	08 53 04.1	− 0.4		
DL2	22.6	264	EP	08 53 30.0	0.5		
			ES	08 57 31.5	0.2		
BJI	26.0	271	(P)	08 53 59.0	− 3.5		
TIA	27.0	263	EP	08 54 10.7	− 0.9		
NJ2	28.0	253	PC	08 54 20.9	− 0.2		
HHC	29.0	276	EP	08 54 30.0	0.3		
TIY	29.6	269	P	08 54 35.3	− 0.1		
BTO	30.1	276	EP	08 54 40.2	− 0.1		
XAN	33.9	266	P	08 55 11.8	− 1.0		
LZH	36.5	272	IPC	08 55 35.5	0.4		
			PmZ			1.0	0.07
GTA	37.8	280	IPC	08 55 47.0	0.7		
CD2	39.2	265	EP	08 55 57.8	− 0.3		
			ES	09 02 03.0	5.2		
GYA	39.8	257	P	08 56 02.0	− 1.3		
WMQ	44.2	292	IPC	08 56 40.5	1.4		
LSA	48.9	273	EP	08 57 16.6	0.3		
1984 4 23							
O=10 31 50.8			**+/− 0.04 SEC**				
LAT=37.85 N			**+/− 0.67 KM**				
LONG=26.90 E			**+/− 0.58 KM**				
DEPTH=47 KM			**+/− 0.24 KM**				
mb(NEIS)=4.5							
STATIONS USED=10, STAND DEV=0.77 SEC							
CD2	62.2	71	EP	10 42 09.9	− 0.4		
XAN	64.4	65	EP	10 42 24.6	− 0.6		
BJI	66.5	56	EP	10 42 37.0	− 1.3		
1984 4 23							
O=12 11 32.9			**+/− 0.20 SEC**				
LAT=37.80 N			**+/− 4.51 KM**				
LONG=26.87 E			**+/− 3.02 KM**				
DEPTH=24 KM			**+/− 0.85 KM**				
mb(NEIS)=4.7							
STATIONS USED=22, STAND DEV=2.49 SEC							
CD2	62.2	71	EP	12 21 57.4	1.8		
KMI	64.3	77	EP	12 22 11.0	1.1		
XAN	64.5	65	EP	12 22 11.7	1.2		
BJI	66.5	56	P	12 22 24.5	0.9		
TIA	69.1	59	PC	12 22 41.5	1.4		
CN2	70.4	49	EP	12 22 47.2	− 0.6		
1984 4 23							
O=15 34 20.2			**+/− 0.10 SEC**				
LAT=7.11 S			**+/− 0.56 KM**				
LONG=123.08 E			**+/− 0.57 KM**				
DEPTH=611 KM			**+/− 1.05 KM**				
STATIONS USED=7, STAND DEV=0.39 SEC							
SSE	38.0	357	EP	15 40 50.2	0.3		
BJI	47.3	352	(P)	15 42 02.0	− 0.7		
MDJ	51.8	5	IPD	15 42 36.2	0.6		
1984 4 23							
O=16 23 13.4			**+/− 0.02 SEC**				
LAT=34.22 N			**+/− 0.49 KM**				
LONG=135.97 E			**+/− 0.34 KM**				
DEPTH=406 KM			**+/− 0.10 KM**				
STATIONS USED=5, STAND DEV=0.39 SEC							
CN2	12.6	322	EP	16 26 01.4	− 0.6		
BJI	16.8	295	EP	16 26 46.5	0.1		
CD2	27.3	272	EP	16 28 25.0	0.0		
1984 4 23							
O=21 26 38.2			**+/− 0.50 SEC**				
LAT=36.48 N			**+/− 3.54 KM**				
LONG=70.69 E			**+/− 3.58 KM**				
DEPTH=201 KM			**+/− 5.01 KM**				
mb(NEIS)=5.3							
STATIONS USED=79, STAND DEV=2.99 SEC							
KSH	5.1	52	IPU	21 27 56.0	0.6		
			S	21 28 51.0	− 4.2		
WMQ	14.9	55	P	21 29 59.5	− 1.3		
			PmZ			2.0	0.8
			XP	21 30 54.0	1.8		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	21 32 38.0	− 3.2		
			S m N			3.0	9.9
			S m E			6.0	7.2
LSA	18.4	105	P	21 30 42.6	1.2		
			S	21 33 59.1	2.2		
			S m N			5.0	1.8
			S m E			5.0	2.7
GTA	23.1	73	I P C	21 31 29.8	1.9		
			P m Z			4.0	1.2
			S	21 35 27.0	5.7		
LZH	26.7	80	I P C	21 32 01.5	0.6		
			A P	21 32 44.0	3.5		
			E S	21 36 21.0	1.1		
			S m E			9.0	1.1
CD2	28.0	91	I P C	21 32 13.3	0.5		
			S	21 36 43.5	2.5		
KMI	29.6	103	I P C	21 32 27.0	− 0.7		
			A P	21 33 12.0	4.1		
			P P	21 33 32.0	− 0.3		
			S	21 37 07.0	− 0.5		
			S m E			6.0	1.0
BTO	30.9	70	I P U	21 32 38.5	0.2		
			A P	21 33 23.0	4.1		
			S	21 37 25.0	− 1.5		
			L N			10.0	11.1
			L E			10.0	2.8
XAN	31.2	83	P C	21 32 40.4	− 0.6		
			X P	21 33 41.5	− 3.5		
			S	21 37 31.0	− 0.4		
			S m N			6.0	0.5
			S m E			4.0	0.4
HHC	32.0	69	P	21 32 48.0	− 0.3		
			A P	21 33 34.0	4.9		
			S	21 37 42.0	− 2.4		
			L E			8.0	0.8
GYA	32.1	97	P C	21 32 49.0	− 0.2		
			P m Z			2.0	1.2
			S	21 37 46.0	0.0		
			S C S	21 42 52.0	− 1.8		
TIY	33.1	75	I P U	21 32 57.5	− 0.4		
			P m Z			1.0	0.05
			S	21 38 02.0	0.3		
			S m E			8.0	0.7
BJI	35.6	70	E P	21 33 19.0	0.3		
			E P C P	21 35 42.5	− 0.2		
			E S	21 38 42.0	2.5		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			E S C P	21 39 07.0	− 1.1		
			E X S	21 39 50.0	− 2.7		
			E S C S	21 43 13.5	1.3		
TIA	37.1	76	P C	21 33 31.7	0.2		
			P m E			6.0	0.3
			P m Z			6.0	0.6
			A P	21 34 16.0	2.5		
			X P	21 34 36.0	− 0.4		
			S	21 39 00.5	− 2.2		
			S m E			7.0	0.5
			S C P	21 39 12.4	− 1.4		
QZN	38.5	106	E P	21 33 42.0	− 0.6		
			S	21 39 21.0	− 1.8		
GZH	39.0	97	P U	21 33 48.0	0.5		
NJ2	39.7	81	I P C	21 33 53.5	0.4		
			P m Z			5.0	0.3
			X P	21 35 03.0	4.8		
			P C P	21 36 54.5	− 1.0		
			S C P	21 39 22.7	− 1.0		
			S	21 39 39.0	− 2.8		
DL2	40.0	70	E P	21 33 54.7	− 0.3		
			A P	21 34 41.0	3.6		
			E S	21 39 41.9	− 3.4		
CN2	41.8	62	I P C	21 34 09.7	− 0.7		
			P m E			4.0	0.3
			P m Z			4.0	0.5
			A P	21 34 57.0	4.0		
			P C P	21 36 01.7	− 0.7		
			S C P	21 39 30.0	− 2.0		
			S	21 40 12.0	− 1.0		
SSE	41.9	82	P C	21 34 11.8	0.7		
			A P	21 34 53.0	− 0.7		
			X P	21 35 16.5	0.1		
			E S	21 40 15.0	0.9		
			S C S	21 43 44.0	− 4.9		
MDJ	44.6	60	E P	21 34 32.5	− 0.4		

1984 4 23
O = 21 40 31.6 +/− 0.42 SEC
LAT = 47.43 N +/− 1.86 KM
LONG = 146.90 E +/− 2.24 KM
DEPTH = 384 KM +/− 4.33 KM
mb(NEIS) = 6.0
STATIONS USED = 95, STAND DEV = 1.36 SEC

MDJ	12.4	263	I P D	21 43 17.8	− 0.4		
			X P	21 44 45.0	3.4		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			I S	21 45 31.0	0.3		
			S-E			5.0	42.4
			SCS	21 54 54.0	− 2.1		
CN2	15.4	264	I P R	21 43 50.0	− 1.7		
			P-E			8.0	13.2
			P-Z			7.0	17.2
			XP	21 45 28.0	4.6		
			I S	21 46 26.0	− 6.8		
			S-N			9.0	120.0
			SCS	21 54 58.0	− 5.7		
SNY	17.5	259	I P R	21 44 12.9	0.1		
			P-Z			8.0	20.4
			I S	21 47 12.0	0.5		
			S-N			7.0	42.9
			S-E			7.0	49.2
			SCS	21 55 08.0	− 1.5		
DL2	20.2	254	I P R	21 44 40.8	0.9		
			P-N			6.0	11.1
			P-E			6.0	19.3
			P-Z			6.0	27.3
			XP	21 46 30.0	4.6		
			S	21 48 00.0	− 0.5		
			S-N			9.0	117.1
			S-E			8.0	103.3
			LN			7.0	25.3
			LE			7.0	13.3
BJI	23.3	262	EPD	21 45 08.5	− 0.2		
			P-N			6.0	6.1
			P-E			6.0	8.1
			P-Z			6.5	14.0
			S	21 48 41.0	−10.6		
			S-N			9.0	0.7
			S-E			10.5	30.6
TIA	24.7	253	PD	21 45 21.4	− 0.2		
			P-Z			9.0	6.3
			S	21 49 06.5	− 8.3		
			S-N			12.0	23.5
			S-E			14.0	18.9
SSE	25.6	239	PR	21 45 29.0	− 0.3		
			P-N			1.2	0.1
			P-E			1.2	0.05
			P-Z			1.2	0.2
			S	21 49 23.0	− 5.5		
			SS	21 51 28.0	4.7		
			LE			11.0	8.1
HHC	26.0	268	I P R	21 45 34.0	0.3		
			I S	21 49 33.0	− 3.3		
			S-E			10.0	21.0
NJ2	26.3	244	I P R	21 45 36.0	0.2		
			P-Z			7.5	2.7
			PCP	21 48 50.0	− 0.5		
			S	21 49 32.0	− 8.0		
			S-N			9.5	17.4
			S-E			11.0	8.3
			SCS	21 55 41.0	− 1.0		
TIY	27.0	261	I P R	21 45 42.5	0.4		
			P-Z			5.0	8.1
			PCP	21 48 52.5	0.3		
			S	21 49 43.0	− 8.2		
			S-E			11.0	2.5
BTO	27.2	269	P	21 45 43.7	− 0.4		
			P-N			5.0	1.9
			P-E			5.0	3.4
			P-Z			5.0	6.4
			S	21 49 50.0	− 4.7		
			S-N			8.0	10.9
			S-E			8.0	17.4
			LN			10.0	12.8
			LE			10.0	22.6
XAN	31.4	258	I P D	21 46 20.3	− 0.4		
			P-Z			7.0	4.6
			EAP	21 47 36.0	1.0		
			PP	21 47 44.0	− 0.5		
			S	21 50 53.5	− 6.9		
			S-N			7.0	16.6
			S-E			9.0	8.1
QZH	31.7	234	I P R	21 46 24.8	1.4		
			P-Z			6.0	3.0
			AP	21 47 38.0	3.1		
			PP	21 47 50.5	2.4		
			PP-Z			10.0	3.7
			I S	21 51 03.5	− 1.7		
			S-N			10.0	20.7
LZH	33.7	266	I P D	21 46 40.5	0.5		
			P-Z			5.0	9.8
			S	21 51 24.0	−11.3		
			SS	21 54 19.0	4.7		
GTA	34.7	274	I P D	21 46 49.8	1.2		
			P-Z			5.0	6.2
			PP	21 48 19.8	− 1.0		
			S	21 51 41.0	− 9.8		
			S-E			7.0	23.2

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LE			12.0	24.2
GZH	36.2	239	PR	21 47 01.4	0.5		
			AP	21 48 18.0	3.8		
			S	21 52 03.0	−10.1		
			SmN			11.0	14.2
			SmE			11.0	4.9
CD2	36.8	259	IPR	21 47 06.0	0.0		
			AP	21 48 24.0	4.7		
			IS	21 52 17.5	− 4.8		
			SmN			7.5	21.0
			SmE			7.5	21.6
GYA	37.8	250	PD	21 47 14.6	− 0.1		
			PmN			6.0	1.6
			PmE			6.0	1.4
			PmZ			6.0	3.6
			AP	21 48 33.0	4.7		
			PP	21 48 55.0	2.3		
			PCP	21 49 24.0	1.7		
			S	21 52 32.0	− 6.1		
			SmN			7.0	16.8
			SCS	21 56 39.0	− 1.8		
WMQ	40.7	287	P	21 47 38.6	0.3		
			PP	21 49 18.0	− 3.5		
			SCP	21 52 40.0	− 2.6		
			S	21 53 14.0	− 6.5		
			SmN			7.0	9.1
			SmE			7.0	22.5
			SCS	21 56 59.0	1.1		
			LN			11.0	10.6
			LE			9.0	12.5
KMI	41.3	253	IPR	21 47 43.0	− 0.1		
			PmZ			4.0	3.7
			PP	21 49 23.0	− 4.1		
			ESCP	21 52 52.0	7.1		
			IS	21 53 23.0	− 6.2		
			SmN			9.0	1.6
			PCS	21 53 31.0	8.4		
			XS	21 55 40.0	− 1.2		
			SCS	21 57 05.0	3.6		
QZN	41.4	239	EP	21 47 44.2	0.6		
			PCP	21 49 33.3	− 0.4		
			S	21 53 28.5	− 1.5		
			SmN			10.0	9.3
			SmE			8.5	7.9
			SS	21 56 47.5	4.5		
LSA	46.0	268	P	21 48 21.9	0.9		
			PP	21 50 14.1	0.1		
			S	21 54 34.1	− 3.2		
			SmN			10.0	9.0
			SmE			9.0	13.7
			XS	21 56 53.1	1.2		
KSH	50.5	288	IPU	21 48 55.0	0.5		
			PCP	21 50 08.0	2.2		
			PP	21 50 59.0	3.3		
			S	21 55 39.0	0.8		
			SmE			4.0	54.3

1984 4 23

O = 22 29 55.7 +/− 0.63 SEC
LAT = 21.97 N +/− 2.10 KM
LONG = 99.19 E +/− 3.18 KM
DEPTH = 2 KM +/− 6.61 KM
Ms(CHINA) = 6.1/32, Msz(NEIS) = 5.6
mb(NEIS) = 5.9, ML(CHINA) = 5.6/2
STATIONS USED = 91, STAND DEV = 2.23 SEC

KMI	4.5	45	EPN	22 31 08.0	1.0		
			SN	22 32 04.0	2.8		
			LN	Ms = 6.0		6.0	138.0
GYA	8.2	55	P	22 31 57.0	− 1.1		
			S	22 33 31.0	− 1.0		
			LN	Ms = 5.9		5.0	40.5
CD2	9.8	23	EP	22 32 20.2	− 0.6		
			LG_2	22 35 11.0	− 7.9		
			LE	Ms = 6.1		7.5	86.4
QZN	10.4	104	EP	22 32 25.0	− 4.1		
			LG_2	22 35 41.5	2.7		
			LN	Ms = 6.4		11.0	209.6
			LE			11.0	102.7
LSA	10.6	318	P	22 32 31.7	− 0.2		
			S'	22 34 33.1	0.5		
			LN	Ms = 5.6		12.5	26.5
			LE			13.0	28.1
GZH	13.1	82	EP	22 33 07.0	1.0		
			S	22 35 36.8	2.9		
			LN	Ms = 6.1		7.0	38.3
			LE			8.0	40.1
LZH	14.6	15	P	22 33 27.5	1.3		
			PmZ			1.0	0.2
			S	22 36 12.0	1.5		
			LE	Ms = 5.1		7.0	4.7
XAN	14.8	33	EP	22 33 25.0	− 2.7		
			S	22 36 08.0	− 5.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			SmN			9.0	1.3
			SmE			6.0	0.4
			SS	22 36 21.0	− 8.3		
			LG2	22 37 55.5	− 7.4		
			LN	Ms=6.0		11.0	31.0
			LE′			10.0	42.5
GTA	17.4	1	P	22 34 03.3	1.8		
			LE	Ms=5.3		13.0	11.7
QZH	18.0	76	EP	22 34 10.0	0.6		
			IS	22 37 32.0	3.0		
			LG1	22 39 26.0	3.6		
			LG2	22 39 56.0	5.0		
			LN	Ms=6.2		7.0	46.2
TIY	19.4	33	EP	22 34 25.5	− 0.5		
			PmZ			5.0	3.5
			ES	22 38 02.0	2.0		
			SmE			9.5	4.3
			SS	22 38 28.0	2.7		
			LE	Ms=6.0		10.0	36.9
NJ2	20.2	55	IPR	22 34 34.0	− 0.4		
			S	22 38 14.0	− 2.2		
			SmN			14.0	5.1
			SmE			10.0	5.1
			LN	Ms=6.5		13.0	117.4
			LE			13.0	70.5
BTO	20.7	23	P	22 34 39.5	− 0.8		
			PmN			10.0	2.0
			PmE			10.0	1.5
			PmZ			10.0	8.7
			LN	Ms=6.1		10.0	33.5
			LE			10.0	28.2
TIA	21.1	43	PD	22 34 44.0	− 0.1		
			PmN			12.5	2.0
			PmE			13.0	1.9
			PmZ			12.5	4.1
			S	22 38 40.0	5.1		
			LN	Ms=5.9		10.0	17.8
			LE			10.0	20.2
HHC	21.5	26	PC	22 34 49.0	0.3		
			S	22 38 51.0	7.4		
			LN	Ms=5.9		10.0	24.8
SSE	21.6	60	EP	22 34 51.0	1.4		
			ILG2	22 41 52.0	2.2		
			LN	Ms=6.7		12.0	192.4
BJI	23.1	34	EP	22 35 05.0	1.0		
			PmN			5.0	1.1

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			PmE			4.5	1.2
			LN	Ms=5.9		11.5	18.7
			LE			11.0	13.3
WMQ	23.8	339	P	22 35 12.5	1.6		
			PmZ			4.0	6.1
			ES	22 39 22.0	− 2.2		
			LN	Ms=6.2		11.0	39.4
			LE			13.0	28.5
DL2	25.6	43	P	22 35 28.0	0.1		
			ES	22 39 54.0	− 0.2		
			SmN			12.0	11.6
			SmE			13.0	19.5
			LN	Ms=6.2		15.0	26.7
			LE			15.0	47.9
KSH	26.4	316	P	22 35 37.0	1.4		
			ES	22 39 59.0	− 9.0		
			SmE			11.0	18.7
SNY	28.5	40	EP	22 35 53.2	− 1.4		
			S	22 40 37.0	− 4.8		
			SmN			21.0	6.3
			SmE			20.0	10.4
			XS	22 40 48.5	− 0.3		
			LN	Ms=6.1		13.0	18.0
			LE			13.0	24.1
CN2	30.8	38	PD	22 36 13.0	− 2.0		
			ES	22 41 10.0	− 8.1		
			LE	Ms=6.0		13.0	23.0
MDJ	33.7	40	EP	22 36 41.0	0.5		
			PP	22 37 55.0	2.6		
			ES	22 42 05.0	1.3		

1984 4 23

O = 22 35 02.5 +/− 0.19 SEC
LAT = 25.01 N +/− 0.60 KM
LONG = 122.08 E +/− 0.93 KM
DEPTH = 20 KM +/− 1.97 KM
Ms(CHINA) = 4.8/2, ML(CHINA) = 4.7/3
STATIONS USED = 16, STAND DEV = 0.70 SEC

QZH	3.2	269	EPN	22 35 52.2	− 0.3		
			SB	22 36 39.3	− 2.2		
			SmN	ML=4.7		1.0	3.3
			SmE			1.0	2.1
			LN	Ms=4.7		6.0	9.5
SSE	6.1	352	PN	22 36 33.4	− 0.8		
			LN			1.0	0.7
			LE			1.0	0.8

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 24							
O=00 52 45.0	+/-	0.62 SEC					
LAT=21.81 N	+/-	2.28 KM					
LONG=99.23 E	+/-	3.06 KM					
DEPTH=28 KM	+/-	6.44 KM					
Ms(CHINA)=4.2/3, mb(NEIS)=4.3, ML(CHINA)=4.6/3							
STATIONS USED=19, STAND DEV=1.76 SEC							
KMI	4.6	43	PN	00 54 08.5	-1.0		
			LN	Ms=4.2		7.0	2.2
GYA	8.2	54	EP	00 54 46.0	0.4		
			LN	Ms=4.1		7.0	1.0
LSA	10.7	318	P	00 55 19.6	-0.7		
XAN	14.9	32	EP	00 56 18.8	3.2		
			LN	Ms=4.2		10.0	0.6
			LE			10.0	0.6
TIA	21.2	43	EP	00 57 29.3	-1.5		
WMQ	24.0	339	EP	00 58 00.0	1.8		
1984 4 24							
O=03 34 11.1	+/-	0.29 SEC					
LAT=21.83 N	+/-	4.90 KM					
LONG=99.39 E	+/-	4.00 KM					
DEPTH=33 KM	+/-	1.52 KM					
Ms(CHINA)=5.0/23, mb(NEIS)=5.0, ML(CHINA)=5.4/1							
STATIONS USED=52, STAND DEV=2.27 SEC							
KMI	4.5	42	PD	03 35 19.0	0.1		
			LN	Ms=5.2		7.0	19.3
			LE			7.0	13.1
GYA	8.1	53	P	03 36 09.6	0.4		
			S	03 37 43.0	2.5		
			LN	Ms=5.3		5.0	9.4
			LE			5.0	7.4
CD2	9.9	22	EP	03 36 32.2	-1.5		
			LE	Ms=5.0		7.0	5.6
QZN	10.2	104	IPD	03 36 36.0	-2.3		
			ES	03 38 32.8	0.2		
			LN	Ms=4.9		11.0	6.2
			LE			10.5	2.7
LSA	10.8	318	P	03 36 46.0	-1.1		
			ES	03 38 46.0	-2.3		
			LN	Ms=4.4		9.0	1.4
			LE			9.0	1.2
GZH	15.0	81	PD	03 37 17.0	1.2		
			S	03 39 30.0	-9.9		
			LN	Ms=5.5		6.0	12.3
			LE			6.0	2.4
LZH	14.7	14	EP	03 37 39.5	0.3		
			ES	03 40 24.0	1.6		
			LE	Ms=4.7		11.0	3.0
XAN	14.8	32	EP	03 37 36.0	-3.8		
			SS	03 40 42.0	1.8		
			LN	Ms=4.9		7.0	1.7
			LE			8.0	2.2
GTA	17.5	1	IPC	03 38 14.6	-0.3		
			S	03 41 34.0	6.7		
			LE	Ms=5.2		11.0	7.3
QZH	17.9	76	EP	03 38 20.0	0.7		
			LN	Ms=5.4		6.5	6.6
TIY	19.4	32	P	03 38 37.3	-0.5		
			PmZ			1.0	0.1
			XS	03 42 20.0	-1.7		
			LE	Ms=4.7		11.0	1.9
NJ2	20.1	55	PU	03 38 47.0	2.1		
			LN	Ms=5.3		10.0	6.5
			LE			10.0	3.4
BTO	20.8	23	P	03 38 51.5	-0.6		
			S	03 42 41.0	3.5		
			LN	Ms=4.7		10.0	1.1
			LE			10.0	1.2
TIA	21.1	43	PC	03 38 55.6	0.5		
			S	03 42 48.0	5.0		
			LN	Ms=4.5		12.0	1.2
			LE			12.0	0.5
BJI	23.1	34	EP	03 39 17.0	1.7		
			ES	03 43 30.0	9.7		
			SmN			9.5	0.6
			SmE			10.0	0.5
			LN	Ms=4.5		10.0	0.9
WMQ	24.0	338	P	03 39 26.0	2.0		
			ES	03 43 41.0	4.9		
			LE	Ms=4.7		11.0	1.5
DL2	25.5	43	E(P)	03 39 37.0	-1.8		
			(S)	03 44 00.0	-2.0		
			LN	Ms=4.9		15.0	2.1
			LE			15.0	2.2
1984 4 24							
O=04 11 27.2	+/-	0.23 SEC					
LAT=30.86 N	+/-	1.18 KM					
LONG=138.41 E	+/-	1.39 KM					
DEPTH=395 KM	+/-	2.41 KM					
mb(NEIS)=6.1							

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
STATIONS USED=95, STAND DEV=1.70 SEC							
SSE	14.8	275	IPD	04 14 39.2	− 0.8		
			PmN			0.8	0.1
			PmE			0.8	0.5
			PmZ			0.8	0.6
			S	04 17 17.0	2.2		
			SCP	04 22 20.0	1.6		
			LN			16.0	143.0
			LE			11.0	106.2
MDJ	15.4	335	IPD	04 14 46.5	0.2		
			PmZ			6.0	10.4
			XP	04 16 19.0	− 1.2		
			IS	04 17 26.0	− 0.6		
			SmN			10.0	29.5
			SCP	04 22 20.5	1.0		
			SCS	04 25 57.0	0.1		
DL2	15.9	304	IPR	04 14 51.5	− 0.3		
			PmN			7.0	8.8
			PmE			7.0	18.8
			PmZ			7.0	22.2
			XP	04 16 31.0	3.7		
			S	04 17 37.0	0.2		
			SmN			10.0	24.2
			SmE			8.0	29.7
			LN			12.0	12.3
			LE			12.0	41.0
SNY	16.2	316	IPD	04 14 54.7	0.3		
			PmN			5.0	8.9
			PmE			5.0	11.5
			PmZ			6.0	18.8
			XP	04 16 31.5	0.8		
			IS	04 17 38.5	− 3.1		
			SmN			6.5	11.6
			SmE			8.5	17.5
			PCP	04 19 34.7	9.5		
			SCP	04 22 22.4	1.5		
			SCS	04 26 01.0	1.9		
			LN			13.0	26.6
			LE			11.0	60.4
CN2	16.5	325	IPD	04 14 58.0	0.3		
			PmN			8.0	13.4
			PmE			8.0	10.4
			PmZ			8.0	18.4
			XP	04 16 37.0	2.1		
			S	04 17 46.0	− 1.6		
			SmN			10.0	104.0
			ISCP	04 22 21.5	− 0.1		
			ISCS	04 26 00.0	− 0.1		
NJ2	16.7	279	PD	04 14 59.2	− 0.8		
			PmZ			6.0	52.4
			IS	04 17 55.0	3.1		
			SmN			10.0	52.0
			SCP	04 22 23.6	1.5		
			SCS	04 26 03.0	2.3		
QZH	18.5	256	IPR	04 15 18.0	0.5		
			PmN			8.0	9.2
			PmE			8.0	22.5
			PmZ			8.0	28.8
			XP	04 16 59.0	− 1.6		
			S	04 18 27.0	3.2		
			SmN			9.0	33.1
			SmE			10.0	36.2
TIA	18.5	292	IPD	04 15 18.0	0.0		
			PmN			8.0	0.6
			PmE			8.0	21 6
			PmZ			8.0	18.3
			XP	04 16 57.0	− 4.2		
			S	04 18 28.0	3.3		
			SmN			9.5	12.3
			SmE			9.5	54.4
			SCP	04 22 27.0	1.2		
			SCS	04 26 07.0	0.9		
			LN			13.5	30.5
			LE			12.0	44.6
BJI	20.3	302	PR	04 15 34.5	− 0.4		
			PmZ			9.0	19.5
			XP	04 17 24.0	1.0		
			S	04 18 56.0	1.0		
			SmN			9.0	29.8
			SmE			12.0	51.5
			SCP	04 22 31.5	1.8		
			SCS	04 26 13.5	1.6		
			LN			13.0	21.8
			LE			12.0	12.3
TIY	22.5	294	IPR	04 15 56.4	0.2		
			PmZ			1.1	1.7
			S	04 19 30.5	− 2.2		
			SmE			12.0	40.0
			SCP	04 22 37.0	1.8		
			SCS	04 26 16.5	− 3.5		
GZH	23.6	256	IPR	04 16 07.0	0.6		
			IXP	04 17 58.0	− 2.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			IS	04 19 49.0	− 2.0		
			SmN			11.0	20.4
			SmE			11.0	38.1
			LN			13.0	40.5
			LE			11.0	45.1
HHC	23.9	302	PC	04 16 08.4	− 0.4		
			S	04 19 56.0	0.8		
			SmE			13.0	26.0
BTO	24.9	300	IPR	04 16 18.0	− 0.4		
			PmN			8.0	5.2
			PmE			8.0	11.5
			PmZ			8.0	50.0
			XP	04 18 11.0	− 2.2		
			PCP	04 19 45.0	3.2		
			S	04 20 13.0	0.5		
			LN			14.0	28.8
			LE			14.0	33.6
XAN	25.0	285	IPD	04 16 19.0	− 0.5		
			PmZ			11.0	17.3
			XP	04 18 16.0	1.6		
			S	04 20 12.0	− 2.4		
			SmN			8.0	11.8
			SmE			10.0	11.3
			SCS	04 26 31.3	1.1		
GYA	28.1	269	PR	04 16 48.0	0.8		
			PmN			7.0	2.5
			PmE			7.0	7.8
			PmZ			7.0	17.2
			XP	04 18 42.0	− 2.0		
			S	04 21 01.0	− 2.7		
			LN			15.0	36.0
			LE			14.0	94.0
QZN	28.4	252	IPDR	04 16 48.5	− 0.5		
			PmN			14.0	11.3
			PmE			13.0	13.1
			PmZ			11.5	19.7
			XP	04 18 45.0	− 1.0		
			S	04 21 08.5	1.6		
			SmN			10.0	24.5
			LE			11.0	51.8
LZH	29.2	289	IPR	04 16 56.0	− 0.5		
			PmZ			11.0	19.5
			S	04 21 19.0	− 1.3		
			SCP	04 22 52.0	− 2.6		
			SmE			10.0	11.3
			PCS	04 23 26.0	− 7.2		
			SCS	04 26 49.5	0.8		
CD2	29.7	279	IPR	04 17 00.0	− 0.4		
			AP	04 18 13.0	0.6		
			IS	04 21 25.0	− 2.4		
			SmN			7.0	17.9
			SCP	04 22 59.5	3.4		
KMI	31.9	268	IPR	04 17 20.0	0.0		
			PmZ			8.0	18.8
			AP	04 18 34.0	1.0		
			PP	04 18 47.0	1.0		
			PPmZ			10.0	26.9
			IS	04 22 14.0	11.3		
			SmE			11.0	20.3
			SCP	04 23 07.0	3.4		
			SCS	04 27 07.0	4.9		
			LN			15.0	100.1
GTA	32.5	295	IPD	04 17 24.3	− 0.5		
			PmZ			6.0	9.9
			PP	04 18 55.0	2.5		
			PCP	04 20 02.8	1.9		
			SCP	04 23 08.0	2.4		
			SS	04 24 53.0	6.3		
			SCS	04 27 06.0	0.9		
			LE			6.0	11.4
			LE			12.0	31.5
LSA	40.6	280	IPR	04 18 35.0	2.5		
			PmZ			11.0	44.1
			AP	04 19 51.0	2.7		
			S	04 24 13.0	− 0.6		
			SmN			7.0	8.1
			SmE			10.0	10.5
			SS	04 27 29.5	6.5		
WMQ	41.7	302	IPD	04 18 42.0	0.7		
			IPP	04 20 30.0	3.3		
			PPmZ			7.0	11.3
			ISCP	04 23 42.0	1.9		
			SmN			10.0	21.9
			SmE			8.0	12.4
			ISCS	04 28 01.0	3.4		
KSH	50.9	297	IPR	04 19 53.0	1.0		
			AP	04 21 10.0	− 1.7		
			PP	04 21 56.0	2.1		
			SCP	04 24 20.0	2.0		
			IS	04 26 39.0	1.7		
			SmN			11.0	18.7
			SCS	04 28 59.0	1.7		

STA. CODE	Δ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 24							
O = 08 22 47.4			+/− 0.02 SEC				
LAT = 62.93 N			+/− 0.31 KM				
LONG = 25.03 W			+/− 0.25 KM				
DEPTH = 12 KM			+/− 0.09 KM				
Msz(NEIS) = 4.4, mb(NEIS) = 4.8							
STATIONS USED = 7, STAND DEV = 0.31 SEC							
CD2	71.0	22	EP	08 34 08.0	− 0.1		
TIA	76.7	30	EP	08 34 41.6	0.7		
1984 4 24							
O = 09 33 04.7			+/− 0.05 SEC				
LAT = 79.64 N			+/− 1.05 KM				
LONG = 2.30 E			+/− 0.75 KM				
DEPTH = 9 KM			+/− 0.24 KM				
Msz(NEIS) = 3.7, mb(NEIS) = 4.2							
STATIONS USED = 9, STAND DEV = 0.73 SEC							
WMQ	46.4	84	EP	09 41 35.6	1.3		
CN2	52.7	49	EP	09 42 20.7	− 1.3		
TIA	58.9	59	EP	09 43 06.7	− 0.2		
1984 4 24							
O = 14 09 44.0			+/− 0.23 SEC				
LAT = 6.84 N			+/− 1.62 KM				
LONG = 71.61 W			+/− 1.60 KM				
DEPTH = 25 KM			+/− 2.29 KM				
Msz(NEIS) = 3.9, mb(NEIS) = 5.1							
STATIONS USED = 15, STAND DEV = 1.60 SEC							
GYA	146.9	2	PKP	14 29 26.0	2.3		
KMI	147.8	9	EPKP	14 29 28.0	2.8		
1984 4 24							
O = 16 24 11.5			+/− 0.08 SEC				
LAT = 18.74 S			+/− 1.77 KM				
LONG = 172.37 W			+/− 1.37 KM				
DEPTH = 0 KM			+/− 0.49 KM				
mb(NEIS) = 4.8							
STATIONS USED = 14, STAND DEV = 1.13 SEC							
CN2	84.3	319	EP	16 36 47.4	0.2		
BJI	88.5	313	EP	16 37 09.0	1.2		
XAN	91.4	305	EP	16 37 23.3	1.9		
KMI	93.3	295	EP	16 37 32.5	1.8		
1984 4 24							
O = 18 27 36.6			+/− 0.17 SEC				
LAT = 24.50 S			+/− 0.01 KM				
LONG = 67.10 W			+/− 0.02 KM				
DEPTH = 169 KM			+/− 0.02 KM				
mb(NEIS) = 5.2							
STATIONS USED = 24, STAND DEV = 3.69 SEC							
WMQ	151.8	40	PKPD	18 47 11.7	6.1		
CN2	158.2	334	PKP	18 47 12.2	− 1.9		
TIA	167.8	343	EPKP	18 47 23.3	0.0		
GYA	174.0	69	EPKP	18 47 27.0	0.3		
1984 4 24							
O = 19 03 52.2			+/− 0.31 SEC				
LAT = 25.61 N			+/− 0.62 KM				
LONG = 101.91 E			+/− 1.39 KM				
DEPTH = 3 KM			+/− 3.28 KM				
Ms(CHINA) = 4.2/3, ML(CHINA) = 3.9/6							
STATIONS USED = 13, STAND DEV = 0.71 SEC							
KMI	0.9	122	PN	19 04 13.5	1.8		
			SG	19 04 27.5	7.3		
			SmN	ML = 3.9		0.5	3.7
			SmE			0.5	3.3
GYA	4.4	77	PN	19 05 04.6	3.5		
			LN	Ms = 4.8		5.0	6.6
CD2	5.5	16	EPN	19 05 20.9	3.3		
			ESN	19 06 27.8	5.2		
			SmN	ML = 4.2		1.2	0.1
			SmE			1.1	0.3
			LE	Ms = 4.2		8.0	2.0
XAN	10.4	34	P	19 06 24.5	− 0.7		
			S	19 08 14.5	− 8.8		
			LN	Ms = 4.1		9.0	0.6
			LE			9.0	0.6
1984 4 24							
O = 19 53 11.3			+/− 0.26 SEC				
LAT = 36.44 N			+/− 1.67 KM				
LONG = 71.17 E			+/− 1.63 KM				
DEPTH = 132 KM			+/− 2.51 KM				
mb(NEIS) = 4.5							
STATIONS USED = 17, STAND DEV = 1.92 SEC							
KSH	4.8	50	EP	19 54 27.0	3.3		
			S	19 55 21.0	1.6		
			LE			3.0	5.2
WMQ	14.6	54	P	19 56 28.0	− 5.0		
LSA	18.0	106	EP	19 57 16.3	1.0		
GTA	22.7	73	P	19 58 05.6	2.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
1984 4 24							
O = 21 15 18.1			+/−	0.10 SEC			
LAT = 37.32 N			+/−	1.01 KM			
LONG = 121.67 W			+/−	1.52 KM			
DEPTH = 7 KM			+/−	0.75 KM			
Ms(CHINA) = 5.8/15, Msz(NEIS) = 6.1, mb(NEIS) = 5.7							
STATIONS USED = 67, STAND DEV = 2.02 SEC							
MDJ	76.1	315	EP	21 27 08.5	− 0.9		
			ES	21 36 48.0	− 5.0		
			XS	21 37 00.0	− 1.2		
			SKS	21 37 13.0	− 1.6		
			SS	21 41 42.0	− 5.4		
CN2	78.9	317	EP	21 27 23.4	− 1.5		
			PmZ			3.0	0.5
			EPP	21 30 23.0	− 1.4		
			PPmZ			3.0	0.4
			ES	21 37 15.0	− 8.2		
			SmN			7.0	0.7
			LE	Ms = 5.7		17.0	3.2
SNY	81.3	316	PU	21 27 37.0	− 0.5		
			S	21 37 48.5	0.8		
			SS	21 43 10.0	5.5		
			LN	Ms = 5.6		24.0	1.6
			LE			24.0	3.0
BJI	86.5	319	P	21 28 03.0	− 0.9		
			PP	21 31 24.0	− 2.3		
			SKS	21 38 26.0	− 0.9		
			S	21 38 36.0	− 3.7		
			SS	21 44 23.0	1.6		
			LN	Ms = 5.9		19.0	4.8
HHC	88.2	322	EP	21 28 12.8	0.5		
			LE	Ms = 5.9		20.0	5.3
TIA	88.8	316	EP	21 28 14.3	− 0.8		
			SKS	21 38 39.0	− 2.5		
			LN	Ms = 5.9		26.0	5.7
			LE			20.0	1.8
BTO	89.1	323	EP	21 28 16.6	− 0.2		
			EPP	21 31 52.0	3.9		
			ESKS	21 38 46.0	2.3		
			S	21 39 05.0	0.1		
			LN	Ms = 5.9		18.0	2.3
			LE			18.0	3.2
SSE	90.1	310	EP	21 28 21.0	− 0.2		
			ESKS	21 38 57.0	7.5		
			S	21 39 17.0	3.6		
			LE	Ms = 5.8		18.0	3.6
TIY	90.2	320	EP	21 28 22.0	0.4		
			SKS	21 38 57.0	7.1		
			S	21 39 17.0	2.8		
			SmE			14.0	1.5
			LN	Ms = 6.1		25.0	8.1
NJ 2	90.8	312	EP	21 28 24.0	− 0.5		
			SKS	21 38 53.0	− 0.7		
			S	21 39 22.0	2.2		
			LE	Ms = 5.8		9.0	3.1
GTA	94.6	329	P	21 28 42.6	0.3		
			PP	21 32 32.5	1.1		
			ESKS	21 39 18.5	3.3		
			ES	21 39 50.0	− 3.5		
			LE	Ms = 5.7		17.0	2.0
WMQ	95.0	339	PC	21 28 48.3	4.6		
			PP	21 32 35.0	1.3		
			SKS	21 39 23.5	6.5		
LZH	95.7	324	IP	21 28 51.0	4.1		
1984 4 24							
O = 22 38 44.2			+/−	0.39 SEC			
LAT = 11.22 N			+/−	1.89 KM			
LONG = 86.42 W			+/−	2.09 KM			
DEPTH = 44 KM			+/−	4.09 KM			
mb(NEIS) = 4.8							
STATIONS USED = 12, STAND DEV = 0.96 SEC							
BJI	124.9	338	(PKP)	22 57 42.0	1.4		
TIA	127.9	335	EPKP	22 57 48.0	1.6		
NJ2	130.6	331	EPKP	22 57 52.5	0.8		
KMI	142.8	346	EPKP	22 58 13.5	−0.7		
1984 4 25							
O = 01 09 04.3			+/−	0.52 SEC			
LAT = 49.99 N			+/−	1.39 KM			
LONG = 78.91 E			+/−	2.42 KM			
DEPTH = 9 KM			+/−	5.46 KM			
Ms(CHINA) = 4.6/11, Msz(NEIS) = 4.7							
mb(NEIS) = 5.9							
STATIONS USED = 88, STAND DEV = 1.07 SEC							
WMQ	8.6	132	IPC	01 11 11.3	− 1.1		
			LG1	01 13 37.6	2.7		
			LG2	01 13 50.0	1.4		
			LE	Ms = 5.2		8.0	12.7
KSH	10.7	192	P	01 11 45.0	3.2		
			LE	Ms = 5.3		4.0	6.6
GTA	18.2	117	IPD	01 13 18.4	− 0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			PP	01 13 34.3	0.9		
			LN	Ms=4.6		6.0	1.0
LSA	22.3	150	EP	01 14 05.3	1.1		
LZH	22.8	118	IPU	01 14 09.5	0.6		
			P_mZ			1.5	0.8
			LN	Ms=4.9		8.0	1.3
			LE			8.0	1.1
CD2	26.6	126	IPC	01 14 46.8	1.1		
			P_mZ			0.9	0.3
			ES	01 19 20.0	0.8		
			LE	Ms=4.6		9.0	0.7
TIY	26.9	104	P	01 14 48.5	0.7		
			LN	Ms=4.7		10.0	1.1
BJI	27.9	96	EP	01 14 57.5	0.5		
TIA	30.8	101	PC	01 15 23.2	0.6		
			EPCP	01 18 19.3	−0.3		
			LN	Ms=4.6		12.0	0.4
			LE			13.0	0.8
KMI	30.9	134	IPC	01 15 24.0	−0.5		
SNY	31.7	87	IPC	01 15 30.6	−0.6		
CN2	32.0	82	IPC	01 15 32.8	−0.5		
			PCP	01 18 21.2	−1.6		
MDJ	34.2	79	IPD	01 15 52.5	−0.5		
NJ2	34.6	106	IPC	01 15 56.0	0.3		
			PCP	01 18 29.9	−0.1		
			LN	Ms=4.4		11.0	0.4
SSE	36.7	104	PC	01 16 13.7	0.1		
			P_mZ			12.0	0.08
			LN	Ms=4.6		12.0	0.6
QZH	39.5	114	EP	01 16 37.7	0.0		

1984 4 25
O=04 19 30.7 +/− 0.35 SEC
LAT=17.31 S +/− 2.39 KM
LONG=177.05 W +/− 2.32 KM
DEPTH=410 KM +/− 3.59 KM
mb (NHIS)=5.7
STATIONS USED=74, STAND DEV=1.32 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
QZH	75.4	302	IPR	04 30 33.0	−0.1		
			P_mZ			4.0	2.1
			AP	04 32 03.0	−1.0		
			XP	04 32 42.5	−3.6		
			PP	04 33 26.0	−4.2		
			PP_mZ			7.0	0.9
			IS	04 39 40.0	0.8		
			SCS	04 40 08.0	3.4		
			XS	04 42 16.0	−2.2		
SSE	76.4	308	PD	04 30 37.5	−0.8		
			P_mZ			4.0	1.3
			AP	04 32 08.0	−1.2		
			XP	04 32 48.0	−3.4		
			S	04 39 48.0	−1.1		
			SCS	04 40 12.0	0.0		
			XS	04 42 32.0	3.6		
			LE			16.0	1.0
MDJ	78.5	324	IPD	04 30 49.5	−0.1		
			AP	04 32 18.0	−3.0		
			XP	04 33 00.0	−3.1		
			PP	04 33 58.0	3.0		
			IS	04 40 16.0	4.8		
			S_mN			8.0	2.3
NJ2	78.6	308	IPR	04 30 50.0	−0.2		
			P_mZ			7.0	1.4
			AP	04 32 22.0	0.3		
			XP	04 33 05.0	1.3		
			IS	04 40 16.0	3.6		
			S_mN			9.0	1.6
			SKS	04 40 23.0	2.4		
			SCS	04 40 30.0	0.1		
GZH	79.0	298	PR	04 30 52.5	0.2		
			AP	04 32 26.0	2.1		
			XP	04 33 09.0	3.1		
			S	04 40 19.0	2.4		
			S_mN			7.0	1.1
			S_mE			9.0	1.8
DL2	80.1	315	P	04 30 57.0	−1.1		
			P_mE			5.0	0.9
			P_mZ			6.0	1.8
			EAP	04 32 29.0	−0.9		
			ES	04 40 22.0	−5.8		
			S_mN			8.0	1.9
			S_mE			9.0	1.9
			LN			15.0	1.1
CN2	80.3	321	IPD	04 30 59.0	−0.6		
			P_mN			6.0	0.5
			P_mE			6.0	2.5
			P_mZ			6.0	3.3
			AP	04 32 31.0	−0.4		
			XP	04 33 12.5	−0.9		
			S	04 40 29.0	−1.8		
			S_mN			8.0	2.7
			S_mE			8.0	2.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			XS	04 43 15.0	3.1		
SNY	80.4	319	IPR	04 30 59.4	− 0.3		
			P_mZ			6.0	1.8
			AP	04 32 31.0	− 0.6		
			XP	04 33 13.0	− 0.6		
			IS	04 40 35.5	4.5		
			S_mN			8.5	2.8
			S_mE			10.0	1.2
QZN	80.4	293	IPR	04 31 00.0	0.1		
			AP	04 32 35.5	3.8		
			XP	04 33 17.0	3.3		
			PP	04 34 07.0	− 3.5		
			PP$_m$Z			9.0	0.9
			S	04 40 35.0	3.7		
			S_mN			14.0	1.9
			LE			11.0	1.8
TIA	81.8	311	PD	04 31 06.9	− 0.3		
			P_mN			6.0	0.4
			P_mE			6.0	0.8
			P_mZ			6.0	1.7
			AP	04 32 41.5	2.2		
			XP	04 33 23.0	1.8		
			S	04 40 49.0	3.4		
			S_mN			8.0	0.8
			S_mE			8.0	0.3
			LN			16.0	0.8
			LE			16.0	0.9
BJI	84.3	314	EPD	04 31 19.6	− 0.1		
			AP	04 32 52.0	− 0.4		
			XP	04 33 33.0	− 1.0		
			PP	04 34 35.0	− 6.8		
			S	04 41 03.0	− 6.9		
			S_mN			7.0	1.1
			S_mE			7.0	2.3
TIY	85.8	311	IPR	04 31 27.5	0.2		
			P_mZ			5.0	1.8
			AP	04 33 00.0	− 0.2		
			XP	04 33 41.0	− 0.9		
			IS	04 41 15.0	−10.1		
			S_mE			7.0	3.1
GYA	85.9	299	PR	04 31 28.0	0.5		
			P_mZ			4.0	1.8
			AP	04 33 01.0	0.6		
			XP	04 33 42.0	0.0		
			PP	04 34 54.0	− 0.4		
			S	04 41 17.0	− 8.5		
			S_mN			7.0	1.2
			S_mE			7.0	3.1
			XS	04 44 10.0	1.2		
XAN	86.9	306	PD	04 31 32.8	0.3		
			P_mZ			5.0	2.0
			AP	04 33 06.0	0.3		
			XP	04 33 49.0	1.7		
			SKS	04 41 19.9	2.3		
			S	04 41 40.0	4.8		
			S_mN			8.0	2.3
			S_mE			11.0	1.1
			XS	04 44 15.0	− 4.4		
HHC	87.8	313	PD	04 31 37.0	0.4		
			AP	04 33 10.2	0.2		
			XP	04 33 51.5	0.1		
			SKS	04 41 28.0	5.1		
			IS	04 41 51.0	7.8		
			S_mE			8.0	1.5
KMI	88.7	296	IPD	04 31 42.0	0.9		
			P_mZ			4.0	1.6
			AP	04 33 17.5	2.9		
			XP	04 33 59.0	3.0		
			SKS	04 41 32.5	3.9		
			IS	04 41 59.0	7.1		
BTO	88.8	313	IPR	04 31 41.5	0.4		
			P_mZ			10.0	2.0
			AP	04 33 14.0	− 0.7		
			XP	04 33 59.0	2.9		
			SKS	04 41 31.0	2.2		
CD2	89.8	302	IPR	04 31 47.0	0.9		
			AP	04 33 20.0	0.0		
			XP	04 34 03.0	1.6		
			PP	04 35 27.0	0.1		
			SKS	04 41 38.0	2.6		
			S	04 41 55.0	− 6.6		
LZH	91.6	307	IPD	04 31 55.0	0.8		
			P_mZ			5.0	1.1
			AP	04 33 29.0	1.0		
			XP	04 34 10.0	0.6		
			SKS	04 41 47.0	1.8		
			ES	04 42 20.0	3.0		
			S_mN			10.0	1.6
GTA	95.7	309	P	04 32 13.0	0.0		
			ISKS	04 42 09.5	2.1		
			S	04 42 56.5	4.5		
			S_mE			8.0	1.6

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LSA	99.9	298	EP	04 32 36.0	3.5		
			SKS	04 42 24.5	− 4.3		
			S	04 43 31.5	3.3		
			S_m N			7.0	0.9
KSH	113.8	305	EPKP	04 37 30.0	7.6		
1984 4 25							
O=07 59 13.3			+/− 0.40 SEC				
LAT=3.21 S			+/− 10.76 KM				
LONG=151.04 E			+/− 7.73 KM				
DEPTH= 1 KM			+/− 2.51 KM				
Ms(CHINA)=5.2/23, Msz(NEIS)=5.4, mb(NEIS)=5.2							
STATIONS USED=44, STAND DEV=1.56 SEC							
QZH	42.1	313	PR	08 07 10.0	0.8		
			S	08 13 26.0	− 4.1		
			S_m E			16.0	0.6
			LE	Ms=5.3		20.0	3.7
SSE	44.4	322	PU	08 07 28.0	0.2		
			S	08 14 04.0	0.7		
			LE	Ms=5.2		16.0	2.6
GZH	45.1	307	EP	08 07 32.5	− 0.9		
			LN	Ms=5.2		16.0	1.2
			LE			17.0	2.1
QZN	46.2	300	PR	08 07 44.5	2.8		
			ES	08 14 25.0	− 3.4		
			LN	Ms=5.3		21.0	2.9
			LE			19.0	1.8
NJ 2	46.5	321	EP	08 07 44.6	0.1		
			S	08 14 36.0	2.5		
			S_m E			9.5	0.8
			LE	Ms=5.2		16.0	2.2
DL 2	49.9	329	EP	08 08 10.0	− 1.1		
			ES	08 15 10.0	−11.5		
			LN	Ms=5.1		16.0	1.0
			LE			13.0	1.1
TIA	50.4	324	EP	08 08 14.2	− 0.6		
			ES	08 15 28.5	0.3		
			LN	Ms=5.3		17.0	2.4
			LE			17.0	1.1
SNY	51.3	333	EP	08 08 21.2	− 0.4		
			S	08 15 33.0	− 7.6		
			LN	Ms=5.2		35.0	4.1
MDJ	51.3	340	EP	08 08 21.5	− 0.3		
			S	08 15 42.0	1.0		
			S_m N			8.0	0.4
			LE	Ms=4.9		14.0	0.8
GYA	52.0	307	P	08 08 27.0	− 0.3		
			S	08 15 43.0	− 8.0		
			LN	Ms=5.1		14.0	1.4
CN2	52.1	336	PD	08 08 27.7	− 0.3		
			ES	08 15 42.0	−10.2		
			LN	Ms=5.2		16.0	1.7
BJI	53.6	326	P	08 08 38.5	− 0.3		
			S	08 16 18.0	5.9		
			LN	Ms=5.2		16.0	1.6
XAN	54.3	316	EP	08 08 43.2	− 0.6		
			PP	08 10 45.0	− 1.4		
			ES	08 16 16.0	− 5.2		
			LN	Ms=5.2		15.0	1.6
KMI	54.6	303	EP	08 08 46.0	− 0.8		
			ES	08 16 20.0	− 6.6		
			LE	Ms=5.1		17.0	1.5
CD2	56.4	310	EP	08 08 57.8	− 1.3		
			ES	08 16 50.0	0.6		
			LE	Ms=5.4		16.0	2.3
HHC	56.7	324	EP	08 09 06.4	4.6		
			ES	08 16 52.0	− 2.3		
			LE	Ms=5.3		21.0	2.3
BTO	57.5	323	EP	08 09 06.7	− 0.3		
			S	08 17 03.0	− 1.1		
			LN	Ms=5.2		14.0	0.9
			LE			20.0	1.4
LZH	58.9	316	EP	08 09 16.5	− 0.4		
GTA	63.3	317	EP	08 09 44.9	− 1.9		
			S	08 18 22.5	3.5		
			LE	Ms=5.1		17.0	1.1
LSA	65.9	304	EP	08 10 03.9	− 0.1		
WMQ	73.4	317	PD	08 10 50.5	0.8		
			ES	08 20 24.0	4.8		
KSH	80.6	310	EP	08 11 35.0	5.2		
			S	08 21 40.0	2.9		
1984 4 25							
O=14 02 43.4			+/− 0.11 SEC				
LAT=23.63 S			+/− 2.73 KM				
LONG=174.68 W			+/− 1.95 KM				
DEPTH=36 KM			+/− 0.63 KM				
mb (NEIS)=5.2							
STATIONS USED=22, STAND DEV=1.18 SEC							
NJ 2	84.2	308	EP	14 15 14.4	1.0		
MDJ	84.8	323	EP	14 15 16.5	0.0		
CN2	86.6	321	PD	14 15 24.6	0.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
TIA	87.6	311	EP	14 15 30.6	0.4		
GYA	90.9	298	P	14 15 47.0	1.5		
TIY	91.6	310	P	14 15 50.0	0.9		
XAN	92.5	306	EP	14 15 53.6	0.7		
1984 4 25							
O=14 31 30.2			+/− 0.99 SEC				
LAT=73.01 N			+/− 1.79 KM				
LONG=5.05 E			+/− 4.33 KM				
DEPTH=25 KM			+/− 10.41 KM				
Msz(NEIS)=4.7, mb(NEIS)=4.8							
STATIONS USED=22, STAND DEV=1.08 SEC							
WMQ	46.6	80	EP	14 40 00.0	1.1		
GTA	54.2	72	P	14 40 56.5	0.0		
CN2	56.5	48	PC	14 41 12.8	− 0.6		
XAN	61.7	66	EP	14 41 48.5	− 0.9		
GYA	68.3	70	EP	14 42 31.0	− 0.8		
1984 4 25							
O=14 58 42.1			+/− 0.21 SEC				
LAT=26.12 N			+/− 1.20 KM				
LONG=95.79 E			+/− 1.35 KM				
DEPTH=119 KM			+/− 2.15 KM				
mb(NEIS)=4.9							
STATIONS USED=81, STAND DEV=1.60 SEC							
LSA	5.4	312	PU	15 00 02.9	0.1		
			S	15 01 00.9	− 4.3		
KMI	6.4	97	IPR	15 00 17.0	2.0		
			XP	15 00 46.0	2.4		
			S	15 01 30.0	3.0		
			LN			8.0	4.6
CD2	8.5	53	IPD	15 00 44.0	0.3		
			P_mZ			1.0	0.2
			S	15 02 16.0	− 2.3		
			LE			4.0	1.8
GYA	9.8	85	PD	15 01 01.0	0.0		
			XP	15 01 30.0	− 1.5		
			S	15 02 48.0	− 1.4		
			LN			6.0	1.3
LZH	12.1	32	IPR	15 01 31.0	− 0.9		
			P_mZ			1.5	0.3
			LE			8.0	2.2
GTA	13.7	13	EP	15 01 51.6	− 0.9		
			S	15 04 12.5	− 9.7		
			LE			9.0	1.2
XAN	13.8	52	EP	15 01 51.2	− 3.2		
			IS	15 04 15.0	−10.6		
			LN			6.0	1.0
QZN	14.8	119	EP	15 02 05.0	− 1.3		
			S	15 04 50.0	2.7		
			S_mN			7.5	0.4
			S_mE			8.0	0.6
GZH	16.2	96	EP	15 02 25.5	0.6		
			S	15 05 28.0	7.0		
			LN			7.0	1.3
TIY	18.2	46	P	15 02 47.5	− 1.3		
			XP	15 03 20.0	− 3.6		
			S	15 06 04.0	− 1.1		
			S_mE			6.0	0.6
			LN			9.0	0.6
BTO	18.7	35	PC	15 02 53.2	− 0.5		
			ES	15 06 06.0	− 8.7		
			LN			10.0	0.8
			LE			10.0	1.0
WMQ	18.8	341	P	15 02 56.0	0.3		
			S	15 06 24.0	5.5		
			S_mE			6.0	0.7
HHC	19.7	37	P	15 03 05.2	0.7		
			S	15 06 34.0	− 1.1		
QZH	20.6	88	EP	15 03 15.5	1.6		
			XP	15 03 48.0	− 3.9		
			S	15 06 58.0	5.3		
			SS	15 07 38.0	6.2		
			LN			7.0	0.4
			LE			7.0	0.6
TIA	20.8	55	PC	15 03 15.8	− 0.2		
			XP	15 03 52.0	− 2.0		
			ES	15 07 00.7	4.3		
			LN			10.0	0.3
			LE			10.0	0.4
NJ2	21.0	68	PC	15 03 17.6	− 0.2		
			XP	15 03 51.2	− 4.8		
			ES	15 07 03.0	3.2		
			S_mE			8.0	0.8
			LN			9.0	0.4
KSH	21.3	313	IPR	15 03 22.0	1.4		
			AP	15 03 43.0	− 0.7		
			S	15 07 15.0	10.1		
			S_mN			8.0	2.2
BJI	21.9	45	EP	15 03 28.5	1.3		
			AP	15 03 52.0	0.9		
			SCP	15 10 47.0	− 0.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S	15 07 25.0	7.9		
			S_m N			6.0	0.4
			S_m E			8.0	0.8
SSE	22.8	71	EP	15 03 36.8	1.0		
			S	15 07 41.0	8.5		
DL 2	25.2	53	E(P)	15 04 00.0	1.9		
			ES	15 08 14.0	2.0		
			S_m E			4.0	0.6
SNY	27.7	48	EP	15 04 21.3	− 0.3		
CN2	29.8	46	EP	15 04 39.6	− 0.8		
			EAP	15 05 04.0	− 1.9		
			PCP	15 07 40.0	− 0.5		
			ES	15 09 26.0	− 1.3		
			LE			10.0	0.4

1984 4 25
O = 15 12 45.2 +/− 0.09 SEC
LAT = 23.51 N +/− 0.78 KM
LONG = 123.51 E +/− 1.17 KM
DEPTH = 33 KM +/− 0.57 KM
Ms (CHINA) = 4.1/7, mb (NEIS) = 4.8, ML (CHINA) = 4.4/8
STATIONS USED = 36, STAND DEV = 1.84 SEC

QZH	4.7	288	IPD	15 13 55.0	− 0.9		
			IS	15 14 44.5	− 5.6		
			S_m N	ML = 4.4		0.4	0.4
			S_m E			0.8	0.6
SSE	7.8	345	PC	15 14 39.0	− 0.7		
			P_m Z			0.8	0.05
GZH	9.4	269	IPC	15 14 59.5	− 1.3		
			S	15 16 37.8	− 8.3		
			LN			1.0	0.06
			LE			1.0	0.06
NJ 2	9.5	335	PD	15 15 01.2	− 1.0		
			ES	15 16 42.5	− 6.1		
			LN	Ms = 4.0		13.0	1.3
QZN	13.5	253	EP	15 15 56.4	− 0.6		
TIA	13.8	337	EP	15 16 03.8	2.6		
			ES	15 18 31.0	− 3.5		
			LN	Ms = 4.1		13.0	0.6
			LE			13.0	0.6
DL 2	15.4	354	E(P)	15 16 22.5	0.2		
GYA	15.6	284	P	15 16 26.2	2.2		
			ES	15 19 16.0	0.1		
			LN	Ms = 4.2		12.0	0.9
XAN	16.5	312	EP	15 16 38.5	2.2		
BJI	17.6	341	EP	15 16 51.0	1.1		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SNY	18.3	0	EP	15 16 58.6	0.6		
CD2	19.0	297	EP	15 17 08.0	0.5		
			ES	15 20 45.0	9.7		
			LN	Ms = 4.3		7.0	0.5
CN2	20.3	4	PD	15 17 19.6	− 1.6		
			ES	15 20 57.0	− 5.3		
			LN	Ms = 4.0		14.0	0.5
LZH	21.1	310	EP	15 17 28.5	− 1.5		
MDJ	21.6	11	EP	15 17 33.7	− 1.2		
GTA	25.6	313	EP	15 18 15.0	1.6		
LSA	29.5	289	PC	15 18 51.1	1.5		

1984 4 25
O = 15 29 15.8 +/− 0.25 SEC
LAT = 17.06 N +/− 5.26 KM
LONG = 123.01 E +/− 4.35 KM
DEPTH = 37 KM +/− 1.67 KM
Msz (NEIS) = 4.5, mb (NEIS) = 4.8
STATIONS USED = 23, STAND DEV = 3.09 SEC

QZH	8.9	332	EP	15 31 21.6	− 2.8		
			LN			16.0	0.4
			LE			16.0	0.6
QZH	10.9	304	E(P)	15 31 51.5	− 0.7		
QZN	12.7	280	EP	15 32 20.6	4.1		
NJ 2	15.4	346	EP	15 32 51.3	− 0.8		
XAN	21.1	325	EP	15 33 58.1	− 1.7		
CD2	22.3	311	EP	15 34 09.8	− 1.9		
TIY	22.6	337	EP	15 34 16.0	1.5		
BJI	23.7	346	P	15 34 24.0	− 0.9		
SNY	24.7	1	EP	15 34 36.8	1.9		
LZH	25.5	321	P	15 34 43.0	0.5		
			P_m Z			1.5	0.05
CN2	26.7	3	EP	15 34 57.0	2.9		
MDJ	28.0	10	EP	15 35 07.5	1.6		

1984 4 25
O = 19 43 33.1 +/− 0.05 SEC
LAT = 26.90 N +/− 0.60 KM
LONG = 143.24 E +/− 0.91 KM
DEPTH = 34 KM +/− 0.45 KM
mb (NEIS) = 4.5
STATIONS USED = 10, STAND DEV = 1.00 SEC

MDJ	20.8	331	EP	19 48 13.0	− 1.2		
SNY	21.9	317	EP	19 48 27.8	2.1		
CN2	22.2	324	EP	19 48 28.6	0.7		
TIA	24.0	299	EP	19 48 45.8	− 0.5		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
XAN	30.3	291	EP	19 49 43.0	− 1.0		
GTA	38.1	300	P	19 50 50.4	− 0.5		
1984 4 26							
O=08 40 04.3			+/− 0.13 SEC				
LAT=45.35 N			+/− 2.63 KM				
LONG=151.14 E			+/− 1.20 KM				
DEPTH=31 KM			+/− 1.46 KM				
STATIONS USED=12, STAND DEV=1.27 SEC							
MDJ	15.3	274	EP	08 43 41.0	1.4		
CN2	18.4	274	EP	08 44 16.0	− 2.5		
TIA	27.2	262	EP	08 45 49.6	2.2		
GTA	37.8	279	P	08 47 20.7	0.1		
CD2	39.4	265	EP	08 47 33.8	0.4		
1984 4 26							
O=10 11 09.5			+/− 0.13 SEC				
LAT=6.79 S			+/− 2.13 KM				
LONG=71.42 E			+/− 2.06 KM				
DEPTH=10 KM			+/− 1.16 KM				
Ms (CHINA)=5.2/30, Msz (NEIS)=5.3, mb (NEIS)=6.0							
STATIONS USED=94, STAND DEV=1.34 SEC							
LSA	40.9	26	PD	10 18 57.8	2.9		
KMI	44.0	42	IPD	10 19 21.0	1.4		
			PP	10 21 06.5	3.5		
			ES	10 25 50.0	− 1.7		
			LN	Ms=5.2		17.0	2.6
QZN	45.7	55	EP	10 19 34.5	1.1		
			S	10 26 12.0	− 4.5		
			LE	Ms=5.2		17.0	2.2
KSH	46.2	4	PR	10 19 37.0	− 0.2		
			ES	10 26 17.0	− 6.4		
GYA	47.5	44	PR	10 19 48.0	0.2		
			PCP	10 21 18.0	0.7		
			PP	10 21 42.0	4.4		
			S	10 26 42.0	− 0.4		
			LN	Ms=5.3		16.0	1.4
			LE			14.0	2.1
CD2	48.6	37	IPR	10 19 56.0	0.0		
			PmZ			1.0	0.2
			PCS	10 25 17.0	1.2		
			ES	10 26 57.0	− 0.4		
			LE	Ms=5.1		17.0	1.8
GZH	50.6	52	IPD	10 20 12.0	0.8		
			S	10 27 27.0	2.0		
			LN	Ms=5.1		14.0	1.0
			LE			14.0	0.8
LZH	52.4	33	IPR	10 20 25.0	0.0		
			PmZ			2.0	0.3
			S	10 27 51.0	0.9		
			SmE			6.0	0.6
			LE	Ms=5.1		14.0	1.1
WMQ	52.5	14	IPD	10 20 26.0	0.5		
			PmZ			2.0	0.4
			S	10 27 51.0	0.0		
			LN	Ms=5.6		15.0	4.1
GTA	52.9	27	IPD	10 20 29.5	0.4		
			S	10 27 59.0	1.6		
			SmE			7.0	0.5
			LE	Ms=5.2		14.0	1.6
XAN	53.9	38	PD	10 20 35.0	− 1.2		
			ES	10 28 05.0	− 5.6		
			LN	Ms=5.2		18.0	2.0
QZH	55.7	53	EP	10 20 48.5	− 0.5		
			LN	Ms=5.1		19.0	1.7
TIY	58.5	37	PR	10 21 08.0	− 0.9		
			ES	10 29 02.0	− 9.2		
			LN	Ms=5.3		15.0	1.6
			LE			9.0	0.4
BTO	59.0	33	PD	10 21 12.3	− 0.4		
			S	10 29 16.5	− 1.7		
			LN	Ms=5.2		13.0	0.8
			LE			13.0	0.8
NJ2	59.4	46	PD	10 21 15.0	− 0.5		
			PmZ			14.0	0.3
			S	10 29 22.0	− 1.5		
			SmE			8.0	0.3
			LE	Ms=5.1		15.0	1.1
HHC	60.0	34	PR	10 21 20.0	0.2		
			ES	10 29 35.0	3.5		
			LN	Ms=5.2		15.0	1.0
			LE			15.0	0.9
TIA	60.5	41	PD	10 21 22.7	− 0.4		
			ES	10 29 38.5	0.8		
			LN	Ms=5.3		16.0	1.4
			LE			16.0	1.4
SSE	60.7	48	PD	10 21 23.5	− 0.4		
			PmN			1.0	0.02
			PmE			1.0	0.06
			ES	10 29 37.0	− 2.2		
			LN	Ms=5.2		14.0	1.1
BJI	62.2	37	EPR	10 21 34.0	− 0.4		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			ES	10 30 02.0	3.1		
			LE	Ms =5.1		15.0	1.1
DL 2	65.0	41	EP	10 21 52.0	− 0.7		
			S	10 30 30.0	− 3.8		
			LN	Ms =5.3		18.0	1.8
			LE			18.0	0.9
SNY	67.8	39	I PR	10 22 10.0	− 0.7		
			ES	10 31 00.0	− 8.1		
			LN	Ms =5.1		14.0	0.6
			LE			14.0	0.7
CN 2	70.0	38	I PD	10 22 23.6	− 0.8		
			P_m Z			4.0	0.6
			ES	10 31 32.0	− 2.3		
			LE	Ms =5.4		14.0	1.7
MDJ	73.0	39	I PD	10 22 43.0	0.6		
			PP	10 25 35.0	8.9		
			S	10 32 05.0	− 3.9		
			S_m E			10.0	1.1

1984 4 26
O = 10 38 59.1 +/− 0.91 SEC
LAT = 7.07 S +/− 3.60 KM
LONG = 106.11 E +/− 2.54 KM
DEPTH = 76 KM +/− 5.55 KM
mb (NEIS) = 5.3
STATIONS USED = 69, STAND DEV = 1.82 SEC

QZN	26.2	8	EP	10 44 29.8	1.1		
KMI	32.2	354	IP	10 45 22.5	0.1		
			AP	10 45 40.0	0.3		
			XP	10 45 49.0	− 0.1		
			ES	10 50 30.0	1.1		
GYA	33.3	0	PC	10 45 32.4	0.0		
CD 2	37.8	356	EP	10 46 10.0	− 0.4		
			I PCP	10 48 27.3	1.9		
LSA	39.3	339	PC	10 46 22.4	− 0.5		
SSE	40.6	20	EP	10 46 34.5	1.2		
NJ 2	40.8	16	PD	10 46 36.2	1.6		
XAN	41.0	3	EP	10 46 36.0	− 0.4		
LZH	43.0	357	I PC	10 46 53.0	− 0.1		
			P_m Z			1.0	0.06
TIA	44.3	12	EP	10 47 02.6	− 0.8		
TIY	44.9	7	PD	10 47 09.0	0.2		
GTA	46.6	353	I PC	10 47 26.2	4.1		
			PCP	10 48 56.3	1.8		
BTO	47.6	4	EP	10 47 28.7	− 0.8		
BJ I	47.8	10	EP	10 47 30.5	− 0.6		
			PCP	10 49 00.0	1.2		
HHC	47.9	5	EP	10 47 32.6	0.1		
SNY	51.2	16	EP	10 47 55.6	− 1.8		
WMQ	53.3	343	EP	10 48 07.5	− 5.8		
CN 2	53.6	17	I PC	10 48 13.6	− 1.5		
			PCP	10 49 20.5	0.5		
MDJ	55.6	20	EP	10 48 28.7	− 1.3		

1984 4 26
O = 10 58 59.0 +/− 0.13 SEC
LAT = 39.75 N +/− 1.39 KM
LONG = 119.04 E +/− 1.00 KM
DEPTH = 0 KM +/− 0.77 KM
ML (CHINA) = 3.3/9
STATIONS USED = 12, STAND DEV = 3.39 SEC

DL 2	2.2	111	PG	10 59 40.0	1.3		
			SG	11 00 07.2	0.0		
			S_m N	ML =2.9		0.8	0.07
			S_m E			0.8	0.09
BJ I	2.2	278	EPN	10 59 35.5	− 1.4		
			SN	11 00 02.0	− 2.9		
			S_m N	ML =3.8		0.5	0.6
			S_m E			0.5	0.6
TIA	3.8	203	EPN	10 59 57.6	− 3.1		
			PG	11 00 07.3	− 1.7		
			SN	11 00 40.3	− 6.9		
			SG	11 00 56.4	− 2.9		
			S_m E	ML =3.1		0.5	0.04
SNY	4.0	57	EPG	11 00 16.5	4.1		
			I SG	11 01 13.8	8.7		
			S_m N	ML =3.6		1.0	0.2
			S_m E			1.0	0.06

1984 4 26
O = 11 45 26.2 +/− 0.57 SEC
LAT = 0.04 S +/− 2.71 KM
LONG = 123.04 E +/− 1.96 KM
DEPTH = 144 KM +/− 3.50 KM
mb (NEIS) = 5.3
STATIONS USED = 70, STAND DEV = 1.87 SEC

QZN	23.0	326	EP	11 50 19.3	0.4		
GZH	24.9	338	I PD	11 50 39.0	2.0		
QZH	25.2	350	EP	11 50 42.0	1.6		
			ES	11 54 58.0	5.2		
			S_m N			9.0	0.5
			LE			12.0	0.3

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GYA	30.7	330	PU	11 51 31.0	0.8		
			AP	11 52 04.0	3.6		
			PCP	11 54 25.0	1.2		
			S	11 56 26.0	4.6		
SSE	31.0	356	EP	11 51 34.0	1.3		
			PCP	11 54 21.5	− 3.2		
KMI	31.8	323	I PC	11 51 41.0	1.1		
			ES	11 56 30.0	− 8.7		
NJ2	32.2	353	PD	11 51 43.6	0.9		
			SCP	11 58 00.0	3.7		
CD2	35.8	330	EP	11 52 14.6	0.7		
			P_m Z			0.9	0.07
			ES	11 57 42.5	2.1		
XAN	36.4	340	EP	11 52 19.2	0.4		
			AP	11 52 54.0	4.0		
			S	11 57 52.0	2.7		
TIA	36.5	351	EP	11 52 19.0	− 0.5		
			PCP	11 54 39.8	− 0.3		
TIY	38.8	346	EP	11 52 39.5	0.4		
			P_m Z			0.8	0.03
LZH	40.1	335	I PD	11 52 51.5	1.5		
			P_m Z			1.5	0.2
BJI	40.4	351	EP	11 52 51.5	− 0.3		
			PCP	11 54 52.5	0.2		
			SCP	11 58 30.0	3.5		
			(S)	11 58 46.0	− 3.1		
HHC	42.0	346	EP	11 53 06.0	0.6		
BTO	42.1	345	EP	11 53 07.3	0.8		
LSA	42.4	317	PC	11 53 10.2	1.2		
CN2	43.7	2	EP	11 53 16.8	− 2.1		
GTA	44.6	334	P	11 53 26.9	0.2		
			SCP	11 58 48.1	4.5		
MDJ	44.8	6	PC	11 53 27.5	− 0.6		
WMQ	53.9	328	I PD	11 54 37.3	0.2		

1984 4 26

O = 14 41 46.0 +/− 0.06 SEC
LAT = 24.48 N +/− 0.02 KM
LONG = 122.00 E +/− 0.11 KM
DEPTH = 78 KM
ML (CHINA) = 3.6/7
STATIONS USED = 12, STAND DEV = 1.72 SEC

QZH	3.1	279	I PC	14 42 35.0	0.6		
			S	14 43 06.0	− 5.0		
			S_m N	ML = 3.4		0.3	0.2
			S_m E			0.3	0.1

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SSE	6.6	353	LG_2	14 45 19.4	− 5.3		
			LE			0.8	0.02
NJ 2	8.0	340	EP	14 43 44.7	2.5		
			S	14 45 12.0	− 0.3		
			LN			0.8	0.02

1984 4 26

O = 15 28 56.8 +/− 0.02 SEC
LAT = 39.50 N +/− 0.05 KM
LONG = 119.00 E +/− 0.14 KM
DEPTH = 0 KM +/− 0.02 KM
ML (CHINA) = 3.0/6
STATIONS USED = 7, STAND DEV = 4.84 SEC

BJI	2.2	284	EPG	15 29 39.5	3.8		
			SG	15 30 07.5	0.5		
			S_m N	ML = 3.5		0.5	0.4
			S_m E			0.5	0.3
TIA	3.6	204	EPG	15 30 09.6	1.0		
			SN	15 30 43.7	4.6		
			S_m N	ML = 2.4		0.5	0.01
			S_m E			0.5	0.01
SNY	4.2	54	EPG	15 30 18.6	− 2.3		
			SG	15 31 11.6	3.5		
			S_m N	ML = 2.8		0.9	0.02
			S_m E			0.9	0.02
TIY	5.4	252	EPG	15 30 42.9	− 1.6		

1984 4 26

O = 17 01 57.6 +/− 0.14 SEC
LAT = 20.85 S +/− 0.58 KM
LONG = 176.93 W +/− 0.49 KM
DEPTH = 278 KM +/− 0.83 KM
mb (NEIS) = 4.8
STATIONS USED = 18, STAND DEV = 0.47 SEC

MDJ	81.4	324	EP	17 13 45.2	− 0.4
CN2	83.2	321	PD	17 13 54.0	− 0.9
BJI	86.8	314	(P)	17 14 12.5	− 0.4
XAN	89.1	306	EP	17 14 24.4	0.6

1984 4 27

O = 03 48 04.0 +/− 0.11 SEC
LAT = 5.29 S +/− 2.24 KM
LONG = 69.90 E +/− 1.38 KM
DEPTH = 10 KM +/− 1.24 KM
Msz(NEIS) = 5.7, mb (NEIS) = 5.0
STATIONS USED = 8, STAND DEV = 0.72 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
CD2	48.4	39	EP	03 56 50.4	1.7		
GTA	52.4	29	P	03 57 18.8	− 0.2		
BJI	62.0	38	(P)	03 58 26.5	− 0.7		
MDJ	72.9	40	EP	03 59 35.0	− 0.7		

1984 4 27
O=04 02 44.4 +/− 0.42 SEC
LAT=10.43 S +/− 2.05 KM
LONG=161.55 E +/− 1.62 KM
DEPTH=62 KM +/− 2.59 KM
Ms (CHINA)=4.7/2, mb (NEIS)=5.2
STATIONS USED=37, STAND DEV=1.61 SEC

MDJ	62.0	334	EP	04 13 01.0	0.3		
CN2	63.2	331	EP	04 13 08.4	− 0.4		
			ES	04 21 21.0	−13.1		
			LE	Ms=4.9		18.0	0.7
BJI	65.5	323	EP	04 13 23.5	− 0.2		
XAN	66.7	314	EP	04 13 31.2	− 0.5		
KMI	67.3	302	EP	04 13 34.0	− 1.7		
CD2	69.0	308	EP	04 13 46.2	0.3		
BTO	69.5	320	E(P)	04 13 49.1	− 0.4		
GTA	75.7	315	P	04 14 27.0	1.2		
WMQ	85.8	315	EP	04 15 19.5	0.4		

1984 4 27
O=06 42 39.9 +/− 0.20 SEC
LAT=36.61 N +/− 3.50 KM
LONG=141.95 E +/− 2.34 KM
DEPTH=21 KM +/− 1.93 KM
Ms (CHINA)=4.3/11, mb (NEIS)=4.9
STATIONS USED=53, STAND DEV=2.22 SEC

MDJ	12.3	314	EP	06 45 38.7	1.3		
CN2	14.5	304	EP	06 46 05.4	− 0.8		
			LE	Ms=4.4		15.0	1.9
SNY	15.2	295	EP	06 46 15.5	0.7		
			LE	Ms=4.2		14.0	1.1
DL2	16.2	284	EP	06 46 25.0	− 3.7		
			LN	Ms=4.2		11.0	0.4
			LE			12.0	0.8
NJ2	19.6	263	EP	06 47 08.0	− 1.8		
			LE			12.0	1.2
TIA	20.0	276	PC	06 47 13.2	− 0.9		
			LN	Ms=4.5		15.0	0.7
			LE			15.0	1.3
TIY	23.5	281	P	06 47 49.6	− 0.2		
HHC	24.0	289	EP	06 47 54.5	− 0.3		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
BTO	25.2	288	EP	06 48 06.0	− 0.1		
			LN	Ms=4.3		12.0	0.2
			LE			12.0	0.5
XAN	27.0	274	EP	06 48 23.4	0.6		
GYA	31.6	261	P	06 49 04.0	0.1		
CD2	32.1	271	EP	06 49 09.2	0.7		
GTA	33.1	287	P	06 49 17.8	0.6		
			LN	Ms=4.3		13.0	0.4
KMI	35.3	262	EP	06 49 36.5	0.1		
WMQ	41.4	297	EP	06 50 28.5	1.3		
LSA	42.7	275	P	06 50 40.1	2.2		

1984 4 27
O=12 29 12.7 +/− 0.25 SEC
LAT=52.87 N +/− 5.00 KM
LONG=167.04 W +/− 2.20 KM
DEPTH=31 KM +/− 2.77 KM
Ms (CHINA)=4.8/1, mb (NEIS)=4.9
STATIONS USED=34, STAND DEV=2.08 SEC

MDJ	41.3	284	EP	12 36 56.5	− 1.4
CN2	44.2	286	EP	12 37 20.0	− 1.5
BJI	52.0	288	EP	12 38 21.5	− 0.1
TIA	54.0	284	PC	12 38 36.4	− 0.3
TIY	55.7	288	P	12 38 49.8	0.7
XAN	60.3	288	EP	12 39 21.0	− 0.5
GTA	61.5	298	P	12 39 29.3	− 0.4
WMQ	64.3	309	P	12 39 48.0	− 0.3
CD2	65.6	289	IPC	12 39 57.3	1.1
GYA	67.2	283	P	12 40 08.6	1.9
LSA	73.5	297	P	12 40 47.0	1.6

1984 4 27
O=18 11 16.3 +/− 0.70 SEC
LAT=59.65 S +/− 12.41 KM
LONG=26.72 W +/− 9.88 KM
DEPTH=29 KM +/− 6.82 KM
STATIONS USED=15, STAND DEV=6.85 SEC

TIY	146.0	111	EPKP	18 30 49.8	− 4.0
TIA	147.0	118	EPKP	18 30 55.6	0.3
BTO	147.1	105	EPKP	18 30 53.3	− 2.4
BJI	149.6	113	(PKP)	18 30 55.0	− 4.6
DL2	151.2	121	EPKP	18 31 03.0	1.1

1984 4 27
O=20 22 07.9 +/− 0.01 SEC
LAT=37.36 N +/− 0.13 KM

STA. CQDE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LONG=71.69 E			+/− 0.06 KM				
DEPTH=33 KM			+/− 0.07 KM				
ML(CHINA)=3.6/1							
STATIONS USED=4, STAND DEV=4.06 SEC							
KSH	4.0	56	EP	20 23 26.3	17.9		
			I	20 24 16.3			
			S_mN	ML=3.6	0.4	0.2	
			S_mE		0.2	0.08	
GTA	22.1	76	P	20 27 09.3	6.8		
1984 4 27							
O=20 34 39.4			+/− 0.10 SEC				
LAT=4.74 S			+/− 2.09 KM				
LONG=153.72 E			+/− 1.03 KM				
DEPTH=70 KM			+/− 1.16 KM				
mb(NEIS)=4.4							
STATIONS USED=5, STAND DEV=0.26 SEC							
CD2	59.4	310	EP	20 44 37.3	− 0.3		
GTA	66.2	316	P	20 45 23.4	0.4		
1984 4 27							
O=21 49 11.1			+/− 0.92 SEC				
LAT=59.29 S			+/− 2.82 KM				
LONG=17.56 W			+/− 2.15 KM				
DEPTH=16 KM			+/− 5.50 KM				
mb(NEIS)=5.2							
STATIONS USED=8, STAND DEV=0.96 SEC							
BJI	145.3	102	PKP	22 08 46.5	− 2.9		
CN2	152.7	108	(PKP)	22 09 11.0	9.9		
1984 4 27							
O=23 55 06.6			+/− 0.02 SEC				
LAT=77.74 N			+/− 0.29 KM				
LONG=125.95 E			+/− 0.26 KM				
DEPTH=9 KM			+/− 0.16 KM				
mb(NEIS)=4.6							
STATIONS USED=9, STAND DEV=0.32 SEC							
CN2	34.1	180	PC	24 01 53.5	− 0.2		
BJI	38.0	192	EP	24 02 28.0	0.6		
TIA	41.8	190	EP	24 02 58.2	− 0.5		
1984 4 28							
O=03 30 18.0			+/− 0.01 SEC				
LAT=43.80 N			+/− 0.18 KM				
LONG=144.49 E			+/− 0.03 KM				
DEPTH=153 KM			+/− 0.05 KM				

STA. CODE	△ deg	AZ deg	PHASE	UTC h. m s	RESID sec	T sec	A μ
STATIONS USED=4, STAND DEV=0.06 SEC							
MDJ	10.8	279	EP	03 32 48.5	− 0.1		
CN2	13.9	276	PC	03 33 27.8	0.0		
1984 4 28							
O=05 30 38.7			+/− 0.43 SEC				
LAT=6.82 S			+/− 2.47 KM				
LONG=154.71 E			+/− 2.11 KM				
DEPTH=47 KM			+/− 2.68 KM				
mb(NEIS)=5.0							
STATIONS USED=44, STAND DEV=2.24 SEC							
QZH	47.3	313	EP	05 39 13.0	3.4		
NJ2	51.6	320	EP	05 39 43.6	0.6		
TIA	55.5	323	EP	05 40 09.5	− 2.0		
MDJ	56.0	338	EP	05 40 13.2	− 2.0		
CN2	56.9	335	PC	05 40 19.3	− 2.7		
GYA	57.1	307	EP	05 40 29.0	5.4		
BJI	58.6	325	P	05 40 34.0	0.1		
TIY	59.3	321	EP	05 40 38.2	− 0.4		
XAN	59.4	316	EP	05 40 38.4	− 0.9		
KMI	59.7	304	EP	05 40 43.0	1.4		
			ES	05 48 52.0	4.4		
CD2	61.5	310	EP	05 40 52.6	− 1.0		
LZH	64.0	315	EP	05 41 10.0	− 0.4		
			P_mZ			1.5	0.07
GTA	68.4	317	P	05 41 39.0	0.5		
LSA	70.9	304	EP	05 41 53.9	− 0.4		
WMQ	78.5	317	P	05 42 40.5	3.0		
1984 4 28							
O=10 05 52.2			+/− 0.72 SEC				
LAT=52.18 N			+/− 3.62 KM				
LONG=169.96 W			+/− 2.08 KM				
DEPTH=36 KM			+/− 4.52 KM				
Ms(CHINA)=5.0/10, Msz(NEIS)=4.7							
mb(NEIS)=5.4							
STATIONS USED=81, STAND DEV=1.40 SEC							
MDJ	39.8	283	EP	10 13 22.5	− 1.3		
CN2	42.7	285	P	10 13 47.0	− 0.9		
			S	10 20 05.0	− 4.0		
			LE	Ms=5.0		18.0	1.9
SNY	45.0	284	PU	10 14 06.0	− 0.3		
			ES	10 20 38.0	− 4.0		
			LN	Ms=4.8		21.0	0.9
			LE			21.0	1.0
DL2	48.0	282	EP	10 14 29.6	− 0.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			LN	Ms=5.0		16.0	1.3
BJI	50.5	287	EP	10 14 49.0	− 0.2		
TIA	52.4	282	EP	10 15 03.3	− 0.6		
			ES	10 22 25.0	− 1.4		
			LN	Ms=5.3		19.0	2.0
			LE			18.0	1.3
HHC	52.7	290	EP	10 15 06.0	0.4		
SSE	53.5	275	P	10 15 12.0	0.5		
			XP	10 15 28.4	2.4		
			ES	10 22 44.0	3.8		
			LN	Ms=4.4		16.0	0.3
BTO	53.7	291	EP	10 15 14.0	0.5		
TIY	54.2	287	P	10 15 17.5	0.3		
			AP	10 15 28.0	0.7		
			ES	10 15 58.0	7.4		
			LE	Ms=5.0		14.0	0.8
NJ2	54.2	277	EP	10 15 16.0	− 1.1		
			AP	10 15 27.6	0.3		
			XP	10 15 32.0	0.3		
			S	10 22 54.0	3.4		
			XS	10 23 10.0	2.4		
			LE	Ms=4.7		16.0	0.5
XAN	58.8	286	PC	10 15 49.4	− 0.6		
			AP	10 16 00.0	− 0.1		
GTA	60.2	296	P	10 15 59.4	− 0.6		
			XS	10 24 22.6	− 4.4		
			LE	Ms=5.1		15.5	1.1
LZH	60.3	291	EP	10 16 00.5	0.0		
			P_mZ			1.2	0.1
			XP	10 16 13.0	− 1.9		
WMQ	63.4	307	P	10 16 20.2	− 0.6		
CD2	64.1	287	EP	10 16 26.0	0.5		
			AP	10 16 38.0	2.2		
			S	10 24 52.5	− 6.1		
GYA	65.6	282	PC	10 16 35.8	0.3		
			S	10 25 21.0	3.5		
KMI	69.0	284	EP	10 16 57.0	0.3		
			AP	10 17 08.0	1.2		
			XP	10 17 11.0	− 0.2		
			ES	10 26 00.0	2.0		
			S_mN			8.0	0.3
QZN	69.2	274	EP	10 17 01.0	2.9		
LSA	72.2	295	P	10 17 17.9	1.4		

1984 4 28

O=13 05 04.6 +/− 0.13 SEC

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
LAT=6.82 S			+/− 2.68 KM				
LONG=72.41 E			+/− 1.45 KM				
DEPTH=5 KM			+/− 1.48 KM				
mb (NEIS)=4.8							
STATIONS USED=22, STAND DEV=1.00 SEC							
GYA	46.9	43	P	13 13 39.4	1.2		
CD2	48.0	36	EP	13 13 48.2	1.0		
WMQ	52.3	13	P	13 14 20.0	0.4		
GTA	52.5	26	PD	13 14 22.1	0.5		
XAN	53.3	38	EP	13 14 27.0	− 0.5		
TIA	59.9	41	EP	13 15 13.7	− 0.7		
BJI	61.6	37	P	13 15 25.5	− 0.7		
DL2	64.4	40	E(P)	13 15 42.0	− 2.3		
CN2	69.4	38	P	13 16 15.0	− 1.5		

1984 4 28

O=15 36 40.5 +/− 0.04 SEC

LAT=15.03 S +/− 0.62 KM

LONG=171.47 W +/− 0.54 KM

DEPTH=4 KM +/− 0.34 KM

mb (NEIS)=5.1

STATIONS USED=8, STAND DEV=0.62 SEC

BJI	86.6	312	EP	15 49 24.0	− 3.1		
TIY	88.4	309	E(P)	15 49 32.6	− 5.4		

1984 4 28

O=20 12 05.7 +/− 0.40 SEC

LAT=1.74 S +/− 7.38 KM

LONG=78.19 W +/− 5.14 KM

DEPTH=48 KM +/− 4.07 KM

Ms (CHINA)=5.2/3, Msz(NEIS)=4.9, mb (NEIS)=5.6

STATIONS USED=50, STAND DEV=4.07 SEC

CN2	133.1	336	EPKP	20 31 16.2	− 1.4		
			PKP_mZ			5.0	0.2
			PP	20 33 45.0	− 1.6		
			ESKS	20 38 16.0	− 4.3		
			SS	20 51 22.0	− 1.7		
			LN	Ms=5.7		17.0	0.6
WMQ	136.3	14	PKP	20 31 25.0	1.6		
DL2	138.8	336	EPKP	20 31 28.5	0.5		
			EPP	20 34 21.0	− 1.6		
BJI	139.7	342	(PKP)	20 31 24.0	− 5.6		
HHC	140.1	348	EPKP	20 31 33.0	2.6		
BTO	140.6	350	EPKP	20 31 28.7	− 2.7		
GTA	142.5	2	PKP	20 31 33.2	− 1.4		
TIY	142.9	345	EPKP	20 31 33.6	− 1.7		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
SSE	145.5	329	PKPD	20 31 40.5	0.8		
			PKP_m Z			6.0	1.7
			LE	Ms=5.2		16.0	0.3
LZH	145.8	357	PKPC	20 31 42.5	2.1		
			PKP_m Z			6.0	1.9
NJ2	145.8	333	PKP	20 31 41.6	1.3		
			PKP_m Z			5.5	1.1
			PP	20 35 04.0	− 0.6		
			PP_m Z			6.0	0.9
XAN	147.2	349	$EPKP_1$	20 31 44.0	1.4		
			PKP_m Z			5.0	1.9
			PKP_2	20 31 17.0			
			PP	20 35 05.0	− 7.7		
LSA	150.4	19	EPKP	20 31 50.7	2.5		
CD2	150.9	356	EPKP	20 31 51.2	2.7		
QZH	151.8	326	$EPKP_1$	20 31 47.5	− 2.3		
			PKP_2	20 32 09.5			
			PP	20 35 32.0	− 6.6		
GYA	155.0	349	PKPC	20 31 57.0	2.7		
			PP	20 36 01.0	4.5		
KMI	156.7	357	$EPKP_1$	20 32 00.0	3.2		
			PKP_2	20 32 28.0			
			PP	20 36 03.5	− 2.7		
			PP_m Z			8.0	0.5
QZN	161.1	335	EPKP	20 32 03.2	1.6		
			PP	20 36 32.0	1.9		

1984 4 28

O=23 33 57.1 +/− 0.13 SEC
LAT=40.39 N +/− 0.03 KM
LONG=63.32 E +/− 0.01 KM
DEPTH=4 KM +/− 0.02 KM
Msz (NEIS)=3.5, mb (NEIS)=4.8
STATIONS USED=9, STAND DEV=4.19 SEC

WMQ	18.4	71	EP	23 38 16.0	1.0		
			S	23 41 43.5	5.4		
			LN			2.5	0.2
			LE			2.0	0.09
LSA	25.1	106	EP	23 39 25.6	0.9		
GTA	27.9	80	EP	23 39 51.1	0.5		
CN2	45.3	64	P	23 42 18.4	0.4		

1984 4 29

O=05 03 03.2 +/− 0.88 SEC
LAT=43.43 N +/− 3.28 KM
LONG=12.47 E +/− 2.62 KM

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH=29 KM +/− 5.30 KM							
Ms (CHINA)=5.5/23, Msz (NEIS)=5.3							
mb (NEIS)=5.2							
STATIONS USED=69, STAND DEV=1.90 SEC							
KSH	46.8	72	IPU	05 11 34.0	1.6		
			S	05 18 27.0	6.8		
			LN	Ms=5.6		10.0	3.1
WMQ	52.6	61	P	05 12 16.5	− 0.9		
			ES	05 19 44.0	2.2		
			LN	Ms=5.8		10.0	2.4
			LE			10.0	3.1
LSA	62.5	74	P	05 13 25.5	− 1.9		
			S	05 21 54.5	2.5		
			S_m N			9.0	0.8
			S_m E			7.5	0.5
GTA	62.7	60	P	05 13 28.2	− 0.1		
			S	05 21 55.0	1.3		
			S_m E			7.5	0.8
			LE	Ms=5.3		15.0	1.4
LZH	67.2	61	EP	05 14 00.0	2.3		
			S	05 22 56.0	6.4		
			LN	Ms=5.7		16.0	4.0
BTO	68.2	54	EP	05 14 04.5	0.5		
			ES	05 23 08.0	6.4		
			LN	Ms=5.5		13.0	0.8
			LE			13.0	1.9
HHC	69.0	53	P	05 14 09.0	0.3		
			S	05 23 19.0	8.4		
			LN	Ms=5.6		13.0	2.1
CD2	70.4	65	EP	05 14 16.4	− 0.7		
			ES	05 23 32.0	5.0		
			S_m N			8.0	1.1
TIY	71.5	55	P	05 14 24.2	0.2		
			ES	05 23 37.5	− 2.8		
			S_m E			7.0	0.4
			LE	Ms=5.6		14.0	2.4
XAN	71.7	60	EP	05 14 23.4	− 1.9		
			S	05 23 43.0	0.3		
			LN	Ms=5.5		18.0	1.9
			LE			14.0	1.3
BJI	72.2	51	EP	05 14 27.5	− 0.3		
			ES	05 23 48.0	0.4		
			S_m N			8.0	0.4
			S_m E			8.0	0.5
			LN	Ms=5.7		17.0	2.3
			LE			14.0	2.0

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
KMI	73.4	71	EP	05 14 35.5	0.2		
			PP	05 17 24.0	4.1		
			ES	05 24 07.0	5.0		
CN2	74.5	43	PC	05 14 42.2	0.3		
			ES	05 24 14.0	− 0.6		
			LE	Ms = 5.7		14.0	3.0
SNY	75.0	46	IPU	05 14 45.0	0.6		
			AP	05 14 55.0	1.8		
			S	05 24 20.0	0.4		
			LN	Ms = 5.8		16.0	2.6
			LE			16.0	2.7
GYA	75.2	67	P	05 14 45.6	− 0.1		
			S	05 24 23.0	1.0		
			S_m N			7.0	1.0
			S_m E			7.0	1.0
TIA	75.3	53	EP	05 14 45.5	− 0.7		
			ES	05 24 22.5	− 0.5		
			LN	Ms = 5.5		15.0	1.4
			LE			15.0	1.3
MDJ	76.0	40	EP	05 14 53.0	2.9		
			ES	05 24 35.0	4.4		
DL2	76.0	49	EP	05 14 51.0	0.8		
			ES	05 24 31.0	0.2		
			LN	Ms = 5.8		13.0	2.7
			LE			11.0	1.1
NJ2	79.2	56	EP	05 15 05.4	− 2.7		
			ES	05 25 00.0	− 5.3		
			LE	Ms = 5.4		12.0	1.0
SSE	81.3	55	P	05 15 19.5	0.3		
			S	05 25 28.0	1.0		
			LN	Ms = 5.5		14.0	1.5
QZN	82.3	71	EP	05 15 27.2	2.6		
			S	05 25 44.0	6.3		
			S_m N			8.0	0.4
			S_m E			9.0	0.4
			LE	Ms = 5.3		15.0	1.1

1984 4 29
O = 07 35 34.9 +/− 0.29 SEC
LAT = 6.99 S +/− 5.43 KM
LOND = 70.24 E +/− 3.59 KM
DEPTH = 11 KM +/− 2.99 KM
Msz (NEIS) = 4.4, mb (NEIS) = 4.5
STATIONS USED = 23, STAND DEV = 3.02 SEC

LSA	41.6	27	EP	07 43 27.5	1.6		
GYA	48.5	45	P	07 44 22.6	2.1		
CD2	49.5	38	EP	07 44 26.0	− 2.0		
WMQ	53.0	15	P	07 44 58.0	3.5		
LZH	53.2	34	EP	07 44 59.0	2.7		
GTA	53.7	28	EP	07 44 56.8	− 2.8		
TIA	61.5	42	EP	07 45 55.3	0.8		
CN2	70.9	38	EP	07 46 56.5	1.5		
MDJ	73.9	39	EP	07 47 16.0	3.2		

1984 4 29
O = 12 03 45.0 +/− 0.04 SEC
LAT = 11.55 N +/− 0.30 KM
LONG = 93.66 E +/− 0.83 KM
DEPTH = 43 KM +/− 0.14 KM
mb (NEIS) = 4.6.
STATIONS USED = 4, STAND DEV = 1.10 SEC

LSA	18.2	353	EP	12 07 56.9	− 0.1		
GYA	19.2	37	EP	12 08 09.0	0.1		
CD2	21.4	24	EP	12 08 30.4	− 1.3		

1984 4 29
O = 14 26 54.9 +/− 0.80 SEC
LAT = 28.69 N +/− 3.24 KM
LONG = 130.49 E +/− 2.18 KM
DEPTH = 49 KM +/− 4.86 KM
Ms (CHINA) = 4.3/1, mb (NEIS) = 4.7
STATIONS USED = 20, STAND DEV = 2.24 SEC

SSE	8.4	288	P	14 28 55.0	− 2.3		
TIA	13.5	307	EP	14 30 05.3	− 1.3		
CN2	15.6	346	PC	14 30 36.0	2.5		
			ES	14 33 30.0	4.6		
			LN	Ms = 4.3		11.0	0.3
XAN	19.2	291	EP	14 31 14.8	− 2.6		
BTO	20.6	310	EP	14 31 33.7	1.3		
GYA	21.2	269	P	14 31 41.0	1.7		
CD2	23.3	282	EP	14 32 00.2	0.7		
LZH	23.6	295	EP	14 32 03.5	0.5		

1984 4 29
O = 16 47 48.5 +/− 1.05 SEC
LAT = 11.45 N +/− 3.93 KM
LONG = 125.96 E +/− 2.56 KM
DEPTH = 28 KM +/− 6.34 KM
mb (NEIS) = 5.0
STATIONS USED = 42, STAND DEV = 1.51 SEC

SSE	20.0	347	PC	16 52 22.0	− 0.3		
			P_m Z			1.0	0.07

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			AP	16 52 32.0	2.0		
			S	16 56 (.0	2.7		
NJ2	21.5	343	PD	16 52 37.6	0.1		
			LE			10.0	0.4
GYA	23.5	312	P	16 53 00.4	2.9		
			S	16 57 13.0	6.6		
KMI	25.8	304	PC	16 53 20.0	0.1		
			ES	16 57 40.0	− 5.8		
TIA	25.9	343	EP	16 53 19.3	− 1.0		
XAN	27.3	328	PC	16 53 32.2	− 1.3		
DL2	27.6	352	E(P)	16 53 36.0	0.2		
CD2	28.2	316	EP	16 53 41.1	− 0.5		
BJI	29.8	344	EP	16 53 54.0	− 1.1		
SNY	30.3	356	EP	16 54 00.4	0.2		
LZH	31.6	324	EP	16 54 12.0	0.0		
GTA	36.2	324	P	16 54 51.9	0.3		
LSA	37.1	304	P	16 55 00.2	1.1		
WMQ	46.1	321	EP	16 56 11.8	− 0.8		

1984 4 29

O=17 20 15.8 +/− 0.43 SEC
LAT=19.70 S +/− 2.16 KM
LONG=175.70 W +/− 1.48 KM
DEPTH=247 KM +/− 2.71 KM
mb (NEIS)=5.3
STATIONS USED=61, STAND DEV=0.89 SEC

SSE	78.9	308	PC	17 31 53.0	− 0.8		
NJ2	81.1	308	PD	17 32 05.8	0.4		
MDJ	81.1	323	PD	17 32 06.3	0.5		
DL2	82.6	315	EP	17 32 13.0	− 0.7		
CN2	83.0	321	IPD	17 32 15.4	− 0.1		
			P_mZ			3.0	0.3
			AP	17 33 15.4	1.5		
			XP	17 33 43.0	3.3		
			ES	17 42 02.0	−10.9		
			S_mN			5.0	0.4
			S_mE			3.0	0.3
SNY	83.0	318	PR	17 32 15.0	− 0.5		
			S	17 42 16.0	3.2		
TIA	84.3	311	EP	17 32 21.4	− 0.8		
BJI	86.9	314	EP	17 32 34.5	0.0		
GYA	88.1	298	PR	17 32 42.0	1.3		
			XP	17 34 09.0	3.8		
			S	17 42 51.0	−11.3		
TIY	88.4	311	IPD	17 32 42.5	0.8		
XAN	89.4	306	PD	17 32 47.3	0.8		
HHC	90.4	313	P	17 32 52.0	0.9		
KMI	90.9	296	IPD	17 32 55.5	1.7		
CD2	92.2	301	EP	17 33 01.0	1.5		
LZH	94.0	306	PD	17 33 09.0	1.0		
			P_mZ			1.5	0.1
GTA	98.1	308	P	17 33 26.8	0.0		

1984 4 29

O=18 06 19.7 +/− 0.37 SEC
LAT=5.56 S +/− 2.04 KM
LONG=153.82 E +/− 1.61 KM
DEPTH=58 KM +/− 2.30 KM
mb (NEIS)=4.6
STATIONS USED=24, STAND DEV=1.67 SEC

TIA	53.9	323	EP	18 15 39.4	− 0.8		
MDJ	54.5	338	EP	18 15 44.5	0.2		
CN2	55.4	335	PC	18 15 50.0	− 1.0		
XAN	57.9	316	EP	18 16 12.0	3.5		
KMI	58.2	303	EP	18 16 12.0	0.6		
			ES	18 23 57.0	−10.9		
			S_mN			7.0	0.3
CD2	60.0	310	EP	18 16 23.6	0.3		
LZH	62.5	315	EP	18 16 40.0	− 0.2		
GTA	66.9	317	P	18 17 10.0	1.2		
LSA	69.5	304	EP	18 17 23.7	− 1.6		
WMQ	77.0	317	EP	18 18 10.0	1.1		

1984 4 29

O=22 23 59.5 +/− 0.34 SEC
LAT=18.00 S +/− 5.80 KM
LONG=167.40 E +/− 4.66 KM
DEPTH=33 KM +/− 3.19 KM
Ms (CHINA)=5.0/5, Msz (NEIS)=4.9, mb (NEIS)=5.2
STATIONS USED=38, STAND DEV=3.86 SEC

NJ2	68.1	316	EP	22 45 00.0	1.3		
DL2	71.0	323	EP	22 45 17.6	1.2		
MDJ	71.2	332	EP	22 45 19.0	1.2		
TIA	71.9	319	EP	22 45 23.3	1.7		
			ES	22 54 29.5	− 9.9		
			LN	Ms=5.4		18.0	1.5
			LE			18.0	1.3
SNY	72.0	327	EP	22 45 25.0	2.7		
			ES	22 44 44.0	3.2		
			LN	Ms=5.0		16.0	0.5
			LE			16.0	0.5
CN2	72.5	329	PC	22 45 26.6	1.2		

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
GYA	73.7	305	EP	22 45 36.6	4.1		
BJI	74.9	321	EP	22 45 41.5	2.2		
			LN	Ms=4.9		16.5	0.6
TIY	75.7	317	EP	22 45 47.9	3.5		
			(S)	22 55 30.0	6.8		
			LE	Ms=5.3		17.0	1.2
XAN	76.0	313	EP	22 45 48.2	2.4		
CD2	78.1	308	(P)	22 46 02.1	4.5		
			ES	22 55 50.0	1.3		
LZH	80.6	312	EP	22 46 16.5	5.2		

1984 4 29
O=22 48 24.0 +/- 0.13 SEC
LAT=17.61 S +/- 0.52 KM
LONG=167.65 E +/- 0.38 KM
DEPTH=55 KM +/- 0.76 KM
mb(NEIS)=4.7
STATIONS USED=9, STAND DEV=0.55 SEC

BJI	74.7	321	(P)	22 59 59.5	-1.0
KMI	76.1	302	EP	23 00 09.0	0.2

1984 4 29
O=23 42 19.7 +/- 0.05 SEC
LAT=17.45 S +/- 0.67 KM
LONG=167.82 E +/- 0.56 KM
DEPTH=34 KM +/- 0.37 KM
mb(NEIS)=4.6
STATIONS USED=14, STAND DEV=0.79 SEC

MDJ	70.9	332	EP	23 53 35.0	-1.1
CN2	72.2	329	EP	23 53 42.6	-1.3
BJI	74.7	321	EP	23 53 58.5	0.1
KMI	76.2	302	EP	23 54 08.0	0.8

1984 4 30
O=02 26 23.4 +/- 0.23 SEC
LAT=9.96 S +/- 4.70 KM
LONG=160.98 E +/- 3.08 KM
DEPTH=99 KM +/- 2.60 KM
mb(NEIS)=5.2
STATIONS USED=11, STAND DEV=0.59 SEC

NJ2	58.0	317	EP	02 36 09.4	0.7
DL2	60.9	325	EP	02 36 26.0	-2.3
MDJ	61.3	334	P	02 36 31.0	-0.2
CN2	62.5	331	PD	02 36 38.6	-0.6
			AP	02 37 01.0	-2.4
XAN	66.0	314	EP	02 37 01.4	-0.6
			AP	02 37 29.0	2.7
CD2	68.2	308	P	02 37 16.2	-0.1
GTA	75.0	315	P	02 37 57.1	0.7
WMQ	85.0	315	P	02 38 50.0	-0.1

1984 4 30
O=02 59 08.2 +/- 0.03 SEC
LAT=39.30 N +/- 0.01 KM
LONG=126.10 E +/- 0.02 KM
DEPTH=0 KM
ML(CHINA)=3.5/8
STATIONS USED=6, STAND DEV=3.87 SEC

SNY	3.2	323	EPN	03 00 00.6	0.2	
			SN	03 00 37.4	-2.2	
			ISG	03 00 47.1	-0.5	
			S_mN	ML=3.9		0.7 0.4
			S_mE			0.7 0.4
DL2	3.5	264	PN	03 00 07.6	2.5	
			PG	03 00 15.0	3.0	
			SG	03 01 01.0	3.1	
			S_mN	ML=3.3		0.8 0.07
			S_mE			0.8 0.09
CN2	4.5	354	PNC	03 00 18.0	-1.7	
			SB	03 01 27.4	2.5	
MDJ	5.9	24	PND	03 00 39.6	1.0	
			SG	03 02 15.5	2.0	
			S_mE	ML=3.4		0.6 0.03

1984 4 30
O=04 48 35.2 +/- 0.08 SEC
LAT=31.40 N +/- 0.03 KM
LONG=119.30 E +/- 0.02 KM
DEPTH=0 KM +/- 0.01 KM
ML(CHINA)=3.5/11
STATIONS USED=11, STAND DEV=2.77 SEC

NJ2	0.8	329	IPNC	04 48 50.8	-2.0	
			SN	04 49 00.6	-4.4	
			S_mN	ML=3.3		0.4 1.1
			S_mE			0.4 0.9
SSE	1.6	100	PNC	04 49 09.0	3.5	
			SN	04 49 30.7	3.0	
			S_mN	ML=3.6		0.5 0.9
			S_mE			0.5 0.4
TIA	5.1	339	EPG	04 50 09.7	1.0	
			SG	04 51 16.9	-5.0	

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
			S_m N	ML = 3.2	0.6	0.6	0.02
			S_m E		0.6	0.6	0.03
1984 4 30							
O = 23 33 34.0			+/− 0.11 SEC				
LAT = 38.75 N			+/− 1.35 KM				
LONG = 70.00 E			+/− 1.18 KM				

STA. CODE	△ deg	AZ deg	PHASE	UTC h m s	RESID sec	T sec	A μ
DEPTH = 23 KM +/− 0.74 KM							
ML (CHINA) = 4.5/1							
STATIONS USED = 13, STAND DEV = 2.07 SEC							
KSH	4.7	79	EPN	23 34 47.3	1.5		
			SG	23 36 04.8	3.3		
			S_m N	ML = 4.5	0.2	0.7	
WMQ	14.2	63	EP	23 37 01.5	4.8		