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SEISMOLOGICAL BULLETIN

January, February, March, 1948

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CONTENTS

List of stations 1
Station data 2
Seismogram interpretations 8
Local and Minor earthquakes 69

U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

U. S. COAST AND GEODETIC SURVEY—WASHINGTON

R. F. A. Studds, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

The instrumental results of the following stations are tabulated in this report.

**Balboa Heights, C. Z. (BH)
The Panama Canal
*Bermuda (BER)
Meteorological Station and International Union Geodesy and Geophysics
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
*Grand Coulee, Wash. (GC)
Bureau of Reclamation
Honolulu, T. H. (HONO)
*Huancayo, Peru (HUAN)
Geophysical Institute of Huancayo
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
**New Kensington, Pa. (NK)
Private station
**Philadelphia, Pa. (PHIL)
The Franklin Institute
*Pierce Ferry, Ariz. (PF)
Bureau of Reclamation and National Park Service
*Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
**Seattle, Wash. (SEA)
University of Washington
*Shasta, Calif. (SH)
Bureau of Reclamation
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory

*Indicates a station maintained by a local institution in cooperation with the U. S. Coast and Geodetic Survey.

**Indicates a station operating on an independent basis.

Other stations are observatories of the U. S. Coast and Geodetic Survey.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights. All magnitudes are determined by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the report.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicates probable error of one-quarter minute. All origin times and locations are determined from P data only. For Pasadena epicenters the time is given in one-tenth minute.

* * * *

Station	Position	Instruments	Foundation and Elevation
Balboa Heights, C. Z. G. E. Matthew, In Chg.	Log cos 9.99467 Lat. 8°57'39"N. Long. 79°33'29"W.	W-A, NS & EW Mass 1.3g	Basalt. Elevation 36m.
Bermuda W. A. Macky, in Chg.	Log 9.92661 Lat. 32°22.8' N. Long. 64°41.0' W.	M-S, NE & NW Mass 1 lb.	Calcareous eolionite over vulcanic rock. Elevation 41m.
Boulder City, Nev. F. H. Werner, In Chg.	Log cos 9.90806 Lat. 35°58'51"N. Long. 114°50'02"W.	B, film, Z, NS, and EW. Mass 100 lb.	Fractured monzonite. Elevation 776m.
Bozeman, Mont. A.J.M. Johnson, In Chg. R. L. Crecelius, Seis. Tender	Log cos 9.88437 Lat. 45°40'01"N. Long. 111°02'43"W.	McC-R, NS & EW Mass 10kg.	Alluvium, glacial drift, and lake deposits 500' thick over gneiss and schist. Elevation 1490m.
Burlington, Vt. E. C. Jacobs, In Chg.	Log cos 9.85339 Lat. 44°28.8' N. Long. 73°11.8' W.	M-S, NE & NW Mass 1 lb.	Glacial hardpan. Elevation 100m.
Butte, Mont. S. W. Nile, In Chg.	Log cos. 9.84167 Lat. 46°00.8' N. Long. 112°33.8' W.	W-A, NS Mass 2g.	Rhyolite 30m. thick, resting on granite. Elevation 1758m.
Chicago, Ill. W. F. Schmidt, In Chg.	Log cos 9.87251 Lat. 41°47.3' N. Long. 87°36.0' W.	McC-R, NS & EW Mass 2.5kg.	Limestone. Elevation 180m.
College, Alaska M. L. Cleven, In Chg.	Log cos 9.62825 Lat. 64°51.6' N. Long. 147°50.4' W.	B, film, Z, NS & EW. Mass 100 lb.	Granitic schist. Elevation 159m.
Columbia, S. C. L. L. Smith, In Chg. C. F. Mercer, Seis. Tender	Log cos 9.91857 Lat. 34°00' N. Long. 81°02' W.	McC-R, NS & EW Mass 10kg.	Consolidated sand 150 thick over granite. Elevation 94m.
Grand Coulee, Wash. W. P. Greenwood, In Chg. W. Shepherd, Asst.	Log cos 9.82600 Lat. 47°46'29"N. Long. 118°58'48"W.	B, film, Z, NS & EW. Mass 100 lb.	Granite. Elevation 461.7m.
Honolulu, T. H. L. R. Burgess, In Chg.	Log cos 9.96926 Lat. 21°18'13"N. Long. 158°05'44"W.	M-S, NS & EW Mass 1 lb. N-L, EW	Coral Elevation 3m.

	T_o	T_g	T_s	V	α	Time: Scales and reference points		Ground Motion Trace "Up"
NS	1.0			1370	14:1	60mm/min.		N
EW	1.0			1370	18:1			E
NE	11.9			250	15:1	8mm/min.	End of time break.	NE
NW	12.0			250	17:1			NW
Z	1.4	.45		5000	Near crit.	15mm/min.	Beginning of time break.	Up
NS	1.4	.45		5000	crit.			N
EW	1.4	.45		5000	crit.			E
NS	10.9			270	6:1	15mm/min.	Beginning of time break.	N
EW	11.1			270	6:1			E
NE	12			250	20:1	8mm/min.	End of time break.	SW
NW	12			250	20:1			NW
NS	6.4			570	10:1	15mm/min.	Beginning of time break.	S
NS	10			335	15:1	15mm/min.	End of time break.	N
EW	10			335	15:1			W
Z	1.5	.45		8000	Near crit.	15mm/min.	Beginning of time break.	Up
NS	1.5	.45						N
EW	1.5	.45						E
NS	12			75	10:1	15mm/min.	Beginning of time break.	S
EW	12			75	10:1			E
Z	1.5	.45		8000	Near	15mm/min.	Beginning of time break.	Up
N	1.5	.45		8000	crit.			N
E	1.5	.45		8000				E
NS	12			124	20:1	30mm/min.	Beginning of time break.	N
EW	12			142	20:1			E
EW	1.2			4800	8:1			E

Station	Position	Instruments	Foundation and Elevation
Huancayo, Peru A. A. Giesecke, Jr. In chg.	Log cos 9.99033 Lat. 12°02.8' S. Long. 75°20.4' W.	W, NS & EW. Mass 500g. B, Z. Mass 100kg.	Partially consolidated conglomerate. Elevation 3350m.
Hungry Horse, Mont. C. H. Spencer, Constr. Engr.	Log cos 9.82255 Lat. 48°20'58"N. Long. 114°01'39"W.	B, film, Z, NS & EW. Mass 100 lb.	Argillaceous limestone (Belt Series) Elevation 1100m.
Lincoln, Nebr. E. C. Jensen, In Chg.	Log cos 9.87886 Lat. 40°50.3' N. Long. 96°39.2' W.	McC-R, EW Mass 2.5kg.	Dakota sandstone. Elevation 366m.
Logan, Utah J. S. Williams, In Chg. W. C. Hugie, Seis. Tender	Log cos 9.87283 Lat. 41°44.5' N. Long. 111°48.8' W.	W-A, NS & EW (dbl. refl.) Mass 2g. Spg., Z	Bonneville lake beds. Elevation 1455m.
New Kensington, Pa. F. Keller, Sr., owner and operator	Log cos 9.88066 Lat. 40°33'35"N. Long. 79°45'15"W.	W, electronic recording, EW	Shale. Elevation 251m.
Philadelphia, Pa. Roy K. Marshall, In Chg. I. M. Levitt, Seis. Tender	Log cos 9.88452 Lat. 39°57'32"N. Long. 75°10'30"W.	W, NS & EW Mass 500g.	Cape May sand and gravel. Elevation 5m.
Pierce Ferry, Ariz. F. H. Werner, In Chg.	Log cos 9.90729 Lat. 36°07'15"N. Long. 114°00'17"W.	B, film, Z, NS & EW Mass 100 lb.	Terrace gravel overlying fine playa silt with gypsum cement. Elevation 417m.
Rapid City, S. Dak. E. L. Tullis, In Chg.	Log cos 9.85637 Lat. 44°04.6' N. Long. 103°12.0' W.	W-A, EW (dbl. refl.) Mass 2g.	Shale. Elevation 1045m.
Salt Lake City, Utah A. M. Anderson, In Chg.	Log cos 9.87932 Lat. 40°45'55"N. Long. 111°50'54"W.	McC-R, NS & EW Mass 2.5kg.	Bonneville lake beds. Elevation 1425m.
San Juan, Puerto Rico R. M. Wilson, In Chg.	Log cos 9.97726 Lat. 18°22.9' N. Long. 66°07.1' W.	W, NS & EW Mass 500g.	Limestone. Elevation 80m.
Seattle, Wash. H. A. Coombs, In Chg.	Log cos 9.82844 Lat. 47°39' N. Long. 122°18.5' W.	B-O, NS & EW Mass 25kg.	Glacial till. Elevation 34m.

	T_o	T_g	T_s	V	ζ	Time: Scales and reference points		Ground Motion Trace "Up"
NS	10.0	11.6	8.8	1550	20:1	16mm/min.	End of time break.	N
EW	10.0	12.4	9.8	1550	21:1			W
Z	.44	5.6			4:1	60mm/min.	End of time break	Up
Z	1.4	.45		13000	Near crit.	15mm/min.	Beginning of time break.	Up
NS	1.4	.45		13000				N
EW	1.4	.45		13000				E
EW	8			200	10:1	15mm/min.	Beginning of time break.	E
NS	5.7			700	10:1	15mm/min.	Beginning of time break.	S
EW	5.6			700	10:1			E
Z	2	2			Near crit.	60mm/min.		Up
EW	10	13		1000	6:1	1"/min.	Beginning of time break	E
NS	9.0	9.4	7.9	1400	22:1	20mm/min.	End of time break	S
EW	9.0	9.4	7.1	1400	34:1			E
Z	1.5	.45		10000	Near crit.	15mm/min.	Beginning of time break.	Up
NS	1.5	.45		10000				N
EW	1.5	.45		10000				E
EW	6			590	20:1	15mm/min.	End of time break	E
EW	10.0			335	10:1	15mm/min.	Beginning of time break.	N
NS	9.7			335	10:1			W
NS	9.5	19.9	11.0	1280	20:1	30mm/min.	Beginning of time break.	N
EW	9.8	13.9	10.1	1280	20:1			E
NS	12.2			10	11:1	15mm/min.	Middle of time break.	N
EW	13.3			10	11:1			W

Station	Position	Instruments	Foundation and Elevation
Shasta, Calif. W. H. Isaacks, In Chg.	Log cos 9.87978 Lat. 40°41'44"N. Long. 122°23'19"W.	B, film, Z, NS & EW Mass 100 lb.	Meta-andesite. Elevation 312.4m.
Sitka, Alaska Joel Campbell In Chg.	Log cos 9.73544 Lat. 57°03'25"N. Long. 135°19'28"W.	W, NS & EW Mass 500g.	Graywacke. Elevation 19m.
Tucson, Ariz. J. H. Nelson, In Chg.	Log cos 9.92725 Lat. 32°14.8' N. Long. 110°50.1' W.	W-A, NS & EW Mass 2.3g. B, Z.	Caliche or gravels 100-300m. thick. Elevation 770m.
Ukiah, Calif. L. F. Caouette In Chg.	Log cos 9.88968 Lat. 39°08' N. Long. 123°13' W.	McC-R, NS & EW Mass 10kg.	Alluvium 180m. deep. Elevation 199m.

	T_o	T_g	T_s	V	ζ	Time: Scales and reference points		Ground Motion Trace "Up"
Z	1.5	.45		5000	Near	15mm/min.	Beginning of time break.	Up
NS	1.5	.45		5000	crit.			N
EW	1.5	.45		5000				E
NS	7.3	10.2	7.6	1000	11:1	15mm/min.	Beginning of time break.	N
EW	7.2	12.0	7.6	1000	11:1			W
NS	8.0			466	crit.	30mm/min.	Beginning of time break	S
EW	8.0			457	crit.			E
Z	1.0	77.0			Near			Up
	1.0	0.236			crit.	60mm/min.		Up
NW	11.5			75	Near	15mm/min.		NW
NE	12.0			75	crit.			NE

PROVISIONAL EPICENTERS

The provisional epicenters have not been determined for the first quarter 1948. In order to expedite the publication of instrumental interpretations the epicenter locations for 1946-48 are being omitted until the backlog is eliminated.

SEISMOGRAM INTERPRETATIONS

Date and Station		Phase (GCT) h m s
Jan. 1		
TUC	eP	02 09 55
	e	10 20
Jan. 1		
SH	iP	02 28 47.5
Jan. 1		
TUC	eP	13 10 55
	e	11 14
Jan. 1		
PF	e(P)	15 47 54
Jan. 1		
PF	eP	16 55 11
TUC	eP	16 55 22
Jan. 1		
SH	e(P)	17 22 48
Jan. 1		
BC	eP	18 50 09
COL	eP	18 44 11
	iS	44 47
	iL	44 58
PF	eP	18 50 12
SH	eP	18 50 11
Jan. 1		
BC	iP	20 29 33
HUAN	eP	20 25 47
	ePP	27 09
	eS	31 35
	e	33 11
	eL	36 04
HH	eP	20 30 41
Jan. 1, cont.		
PF	eP	20 29 33
SH	eP	20 30 05
TUC	eP	20 29 08
	epP	31 02
Jan. 1		
PF	e(P)	20 57 40
Jan. 1		
TUC	eP	23 12 51
Jan. 2		
PF	eP	00 11 24
TUC	eP	00 11 35
	e	12 03
Jan. 2		
BC	iP	02 50 37
HH	eP	02 51 53
PF	eP	02 50 34
TUC	eP	02 49 50
	i	50 10
Jan. 2		
BC	eP	03 26 52
HUAN	eL	04 14 05
PF	eP	03 27 23
SH	eP	03 27 19
TUC	eP	03 27 23
	i	27 34
Jan. 2, cont.		
HH	dP	10 03 49
Jan. 2		
PF	eP	10 33 20
TUC	eP	10 33 19
Jan. 2		
BC	iP	11 34 22
GC	eP	11 35 53
HH	eP	11 35 39
PF	eP	11 34 10
TUC	eP	11 33 37
	eL	43 49
Jan. 2		
HH	eP	13 10 05
TUC	eP	13 08 03
	e	08 20
	e	08 29
Jan. 2		
HH	eP	15 22 16
TUC	eP	15 20 24
Jan. 2		
BC	iP	15 25 49
GC	eP	15 27 49
HUAN	eL	15 31 55
HH	iP	15 27 34
PF	iP	15 26 15

Date and Station		Phase (GCT) h m s
Jan. 2, cont.		
TUC	eP	15 25 33
	e	25 51
	e	30 38
	eL	33 50
Jan. 2		
SH	eP	23 13 34
Jan. 3		
PF	iP	01 10 45
	i	12 18
SH	iP	01 10 26.5
TUC	iP	01 10 49
	e	11 08
Jan. 3		
BC	eP	03 31 19
PF	eP	03 31 05
	e	31 40
Jan. 3		
PF	eP	07 10 10
	i	12 40
SH	eP	07 09 54
TUC	eP	07 12 54
	e	13 14
Jan. 3		
PF	i(P)	09 53 26
Jan. 3		
GC	eP	10 02 28
PF	eP	10 03 45
SH	eP	10 04 30
TUC	eP	10 04 51
	e	05 07
Jan. 3		
PF	eP	12 48 56
SH	eP	12 49 27

Date and Station		Phase (GCT) h m s
Jan. 3, cont.		
TUC	eP	12 48 32
Jan. 3		
PF	eP	16 51 20
TUC	eP	16 51 57
Jan. 3		
PF	e(P)	19 35 40
Jan. 3		
PF	e(P)	21 10 22
Jan. 4		
HH	eP	00 03 33
Jan. 4		
PF	e(P)	01 12 01
Jan. 4		
PF	eP	01 30 11
	i	31 06
	i	31 18
Jan. 4		
HH	iP	02 46 13
Jan. 4		
SH	eP	05 35 01
TUC	eP	05 35 18
Jan. 4		
PF	e(P)	06 20 27
Jan. 4		
BER	eSKS	09 20 48
	eSKKS	21 52
	ePS	26 18
	esPS	29 00
	eSS	32 10
	esSS	35 10
	eSSS	37 20

T_{SKS} = 8 sec. A = 0.6mm.
T_{SS} = 14 sec. A = 0.9mm.

BC	iP	09 08 03
	ipP	10 09

Date and Station		Phase (GCT) h m s
Jan. 4, cont.		
BC	eS	09 17 33
	ePKKP	26 24
	eP'P'	34 30
	eSKPP'	36 53
BOZ	epP	09 10 56
	eSKS	18 13
	iS	18 46
	eSP	20 08
	esS	22 21
	esPS	23 24
BUT	iS	09 18 35
	esS	22 24
CHI	iSKS	09 19 26
	eS	20 52
	iS	20 58
	eSKP	22 36
	esS	24 40
	eSSS	32 23
COL	iS	09 18 24
	esS	22 08
	esSS	28 02
COLU	eP	09 10 16
	ePP	14 28
	eSKS	19 38
	eSKKS	20 26
	ePS	24 04
	eL	48 10
GC	iP	09 08 22.5
	epP	10 29
	esP	11 31
	eSKS	17 52
HONO	eP	09 04 12
	esPP	09 17
	iS	10 20
	i	11 02

T_S = 9 sec. A_S = 8.0mm.

HUAN	eP	09 09 16
	epP	11 22
	ePP	13 24
	epPP	15 07

Date and Station		Phase (GCT) h m s
Jan. 4, cont.		
HUAN	eSKS	09 18 45
	iSKKS	19 00
	iS	19 33
	eSP	21 16
	ePS	22 42
	esS	23 40
	eSS	27 07
	eSSS	31 55
HH	iP	09 08 37
	ipP	10 46
	i	11 17
	eSKS	18 13
	eS	18 42
	eSP	19 42
	iPKKP	26 07
LOG	iP	09 08 44
	ipP	10 35
	isP	11 27
	iPP	11 57
	iSKS	17 56
	iS	18 23
	i	20 02
	esPS	23 02
	esSS	27 56
PF	iP	09 08 06
	ipP	10 12
	ePKKP	26 21
SJ	iPP	09 15 37
	ipPP	17 40
	iSKS	20 15
	iSKKS	21 27
	eS	22 23
SH	iP	09 07 52
	ipP	09 56
	i	10 10
	iS	17 13
SIT	eS	09 18 00
TUC	iP	09 08 08
	ipP	10 11
	isP	11 16
	esPP	14 18

Date and Station		Phase (GCT) h m s
Jan. 4, cont.		
TUC	iSKS	09 17 38
	iS	17 50
	iSP	18 44
	esPS	22 08
	iPKKP	26 21
	iP'P'	34 32
	eSKPP'	36 50
UK	iS	09 16 58
	eSKS	17 18
	e(SP)	18 20
Jan. 4		
PF	eP	12 18 16
TUC	eP	12 18 25
Jan. 4		
BC	eP	12 38 49
HH	iP	12 39 38
PF	eP	12 38 48
SH	eP	12 39 31
TUC	eP	12 38 20
	epP	38 50
	e	39 12
Jan. 4		
BC	eP	13 10 28
GC	eP	13 10 32
HH	iP	13 10 48
PF	iP	13 10 32
	e	11 36
	eS	17 42
	eL	27 29
SH	iP	13 10 08
TUC	iP	13 10 39
	epP	11 44

Date and Station		Phase (GCT) h m s
Jan. 4, cont.		
TUC	eP	13 38 20
	e	38 50
Jan. 4		
TUC	eP	16 51 24
Jan. 4		
TUC	eP	17 36 15
Jan. 4		
PF	eP	18 36 32
TUC	eP	18 35 54
Jan. 4		
PF	e(P)	19 52 04
Jan. 4		
PF	e(P)	21 25 17
Jan. 5		
PF	e(P)	01 45 05
Jan. 5		
PF	eP	02 05 52
SH	eP	02 05 37
TUC	eP	02 05 54
Jan. 5		
BC	eP	03 50 27
	epP	50 46
GC	eP	03 50 24
	epP	50 48
PF	iP	03 50 31
SH	eP	03 50 05
TUC	eP	03 50 39
Jan. 5		
HH	iP	07 48 53
SH	eP	07 48 51

Date and Station		Phase (GCT) h m s
Jan. 5, cont.		
TUC	eP	07 49 54
	e	50 05
Jan. 5		
HH	eP	11 22 53
	iS	23 24
Felt in Helena, Mont.		
Jan. 5		
SH	iP	11 50 00
Jan. 5		
PF	eP	12 37 24
TUC	eP	12 36 50
	e	37 08
	e	37 30
Jan. 5		
SH	eP	19 06 09
Jan. 5		
SH	iP	20 41 40.5
Jan. 6		
GC	iP	01 45 25
	i	46 14
	e	54 44
Jan. 6		
SH	e(P)	03 06 43
	e	07 18
Jan. 6		
BC	eP	09 07 55
	e	08 20
GC	eP	09 09 46
HUAN	eP	09 07 35
HH	eP	09 09 05
	e	14 47
PF	eP	09 07 51
SH	eP	09 09 00

Date and Station		Phase (GCT) h m s
Jan. 6, cont.		
TUC	eP	09 07 11
	i	07 16
	e	08 09
	e	10 17
Jan. 6		
HH	eP	09 29 16
Jan. 6		
BC	eP	14 04 22
HH	eP	14 04 23
PF	eP	14 03 56
SH	eP	14 03 56
Jan. 6		
TUC	e(P)	14 52 20
Jan. 6		
TUC	eP	15 07 34
Jan. 6		
BH	eP	17 28 00
BER	iP	17 30 19
	e(S)	35 10
	eL	39 32
T_L = 16 sec. $A_{max.}$ = 6.5mm.		
BC	iP	17 28 37
BOZ	eP	17 29 38
	e	30 20
	eS	34 52
	eL	37 18
BUT	eP	17 29 39
	ePP	31 04
	eS	34 59
	eL	37 19
CHI	eP	17 29 01
	iS	33 47
	eL	36 30

Date and Station		Phase (GCT) h m s
Jan. 6, cont.		
COL	eP	17 33 20
	ePP	35 35
	eS	41 24
	eSS	45 20
	eL	50 52
COLU	eP	17 28 28
	e	30 40
	eS	32 52
	eL	37 32
GC	iP	17 30 17
	e(S)	36 03
HUAN	eP	17 30 30
	iP	30 36
	eS	36 13
	eL	38 40
HH	eP	17 30 29
	i	30 58
	iPP	31 21
	iPPP	31 44
	i	32 17
	iPcP	32 39
	eS	35 41
	iL	42 11
LOG	eP	17 29 06
	ePP	30 07
	iS	33 58
	iL	35 32
PHIL	eP	17 29 37
	iP	29 41
	ePP	30 43
	iS	34 53
	iL	36 23
PF	iP	17 28 34
	iL	36 02
RC	iP	17 29 13
	e(PP)	30 38
	eS	33 56
	eL	36 53

Date and Station		Phase (GCT) h m s
Jan. 6, cont.		
SJ	iP	17 29 37
	ePP	30 58
	iS	34 52
	eL	36 10
SEA	ePP	17 32 24
	eL	39 25
SH	eP	17 29 42
SIT	iS	17 39 23
	e(SS)	43 18
	eL	43 48
TUC	iP	17 27 44
	i	28 51
	iS	31 27
	eL	32 19
Jan. 6		
BH	iP	17 30 32
BER	iP	17 32 45
	eL	40 41
BC	iP	17 31 11
	eS	35 57
BOZ	eP	17 32 22
	eS	37 18
	eL	39 20
BUT	eS	17 37 19
CHI	iP	17 31 32
	eS	36 15
	iL	41 24
COLU	eP	17 31 05
	iS	35 35
	eL	37 32
GC	iP	17 32 50
HONO	eL	17 50 40
HUAN	eP	17 33 06
	eS	38 41
	eL	41 05

Date and Station		Phase (GCT) h m s
Jan. 6, cont.		
HH	iP	17 32 46
LOG	iL	17 38 00
PHIL	iP	17 32 10
	iPP	33 35
	iS	37 27
	iL	39 25
PF	iP	17 31 03
RC	iP	17 31 47
	eS	36 15
	eL	37 41
SJ	iPP	17 33 38
SH	ePP	17 33 28
	e	40 24
SIT	eL	17 47 00
TUC	iP	17 30 18
Jan. 6		
BC	iP	17 45 11
	i	52 55
HH	eP	17 46 40
PF	iP	17 45 09
TUC	iP	17 44 20
	i	48 29
	iL	49 58
Jan. 6		
BH	eP	18 04 49
BC	iP	18 05 45
	eL	12 44
BOZ	eL	18 16 12
GC	eP	18 07 02
	e(S)	10 46
HH	eP	18 06 50

Date and Station		Phase (GCT) h m s
Jan. 6, cont.		
LOG	eP	18 05 51
	eL	11 55
PF	iP	18 04 19
	i	05 55
	eL	12 48
RC	eP	18 05 58
	eS	11 01
	iL	14 56
SH	eP	18 06 30
TUC	iP	18 04 31
	i	06 06
	i	07 09
	eS	08 10
	eL	09 15
Jan. 6		
SH	e(P)	18 17 12
Jan. 6		
TUC	eP	19 08 18
Jan. 6		
PF	eP	20 16 25
Jan. 6		
PF	eP	22 15 34
TUC	eP	22 15 52
	e	16 11
Jan. 6		
GC	e(P)	22 45 22
Jan. 6		
PF	iP	23 34 11
Jan. 7		
BH	eP	05 20 09
	i	20 22
Jan. 7		
HH	iP	10 26 40
Jan. 7		
HH	eP	18 29 53

Date and Station		Phase (GCT) h m s
Jan. 7, cont.		
PF	eP	21 03 07
SH	eP	21 02 53
TUC	eP	21 03 07
	e	03 32
Jan. 8		
HH	eP	00 18 03
Jan. 8		
PF	iP	01 46 54
Jan. 8		
BH	eP	03 16 54
	i	17 15
Jan. 8		
SH	eP	04 30 09
Jan. 8		
HH	eP	08 53 35
PF	eP	08 52 34
TUC	eP	08 52 05
	e	52 21
	e	53 39
Jan. 8		
SH	e(P)	12 13 03
Jan. 8		
HUAN	eP	12 58 16
	e	13 04 26
HH	eP	13 01 26
PF	eP	12 59 49
TUC	eP	12 59 13
	e	13 00 51
	ePP	02 15
Jan. 8		
PF	eP	14 14 30

Date and Station		Phase (GCT) h m s
Jan. 8, cont.		
TUC	eP	14 14 40
Jan. 8		
SH	eP	14 47 39
TUC	eP	14 47 52
Jan. 8		
PF	eP	19 19 49
TUC	eP	19 19 56
Jan. 8		
HH	eP	23 19 38
Jan. 8		
PF	eP	23 27 08
TUC	eP	23 25 34
	i	25 40
	e	27 32
Jan. 8		
BC	eP	23 38 17
PF	eP	23 38 44
TUC	eP	23 37 54
	e	38 12
	e	43 35
	eL	45 27
Jan. 9		
BC	eP	02 18 07
GC	eP	02 18 31
PF	iP	02 18 11
SH	eP	02 17 56
TUC	iP	02 18 13
	ipP	18 28
Jan. 9		
TUC	eP	05 16 13
Jan. 9		
PF	eP	08 15 12

Date and Station		Phase (GCT) h m s
Jan. 9, cont.		
TUC	eP	08 15 13
Jan. 9		
GC	eP	09 11 23
HUAN	iP	09 00 27
	iS	00 42
	iL	01 02
HH	eP	09 10 40
PF	iP	09 10 13
TUC	eP	09 09 39
Jan. 9		
HUAN	iP	09 15 48
Jan. 9		
HH	eP	15 05 29
Jan. 9		
PF	iP	20 27 06
Jan. 9		
PF	eP	20 47 20
TUC	eP	20 47 30
Jan. 9		
BC	iP	22 27 03
GC	eP	22 26 24
SH	iP	22 26 27
TUC	iP	22 27 24
	i	27 40
	ePP	31 09
Jan. 9		
PF	eP	23 20 35
Jan. 10		
BC	e(P)	00 48 05
BOZ	e(S)	00 51 53
	eL	52 28

Date and Station		Phase (GCT) h m s
Jan. 10, cont.		
BUT	eS	00 51 23
GC	eP	00 47 51
	eS	49 21
	iL	50 04
HH	eP	00 48 29
PF	eP	00 48 38
RC	eP	00 49 53
	eL	56 32
SLC	eS	00 52 05
	eL	52 38
SEA	eL	00 50 06
SH	iP	00 46 44.5
	iS	47 19.7
	i	47 23.8
TUC	iP	00 49 40
	i	49 46
	eS	52 56
UK	eS	00 47 23
	eL	48 04
Jan. 10		
PF	eP	02 20 14
TUC	eP	02 20 11
	e	20 26
Jan. 10		
PF	eP	04 55 20
Jan. 10		
BER	eSKS	05 40 35
	ePS	46 10
	eSS	52 30
	eL	06 13 40
T_L = 20 sec. $A_{max.}$ = 1.0mm.		
BC	eP	05 27 42

Date and Station		Phase (GCT) h m s
Jan. 10, cont.		
BOZ	ePS	05 40 41
	eSS	46 19
	eL	55 19
BUT	eL	05 54 28
CHI	e(PS)	05 44 39
	eL	06 00 01
COL	eL	05 52 00
COLU	eL	06 08 16
HONO	eL	05 35 06
HUAN	eP'	05 32 42
	eS	41 09
	ePS	42 30
	eSS	48 14
	eL	58 20
HH	eP	05 27 41
LIN	eL	06 03 07
PHIL	eL	06 13 29
PF	eP	05 27 45
RC	eL	06 01 19
SLC	eSKS	05 38 53
	ePS	40 08
	eSS	45 16
	eSSS	49 03
	eL	52 40
SH	eP	05 27 29
SIT	eSKS	05 38 31
	e(SS)	44 11
	eL	51 10
TUC	eP	05 27 49
	iP	27 55
	eSKS	38 43
	eSS	44 44
	e(SSS)	48 15

Date and Station		Phase (GCT) h m s
Jan. 10, cont.		
UK	eL	05 52 50
Jan. 10		
PF	e(P)	07 00 36
Jan. 10		
BC	eP	09 37 33
PF	eP	09 37 29
TUC	eP	09 36 48
Jan. 10		
PF	eP	12 24 13
Jan. 10		
PF	eP	14 17 20
TUC	eP	14 16 38
Jan. 10		
HH	eP	22 38 38
TUC	eP	22 39 43
Jan. 10		
PF	e(P)	22 54 16
Jan. 10		
PF	e(P)	23 20 20
Jan. 11		
PF	eP	01 39 20
Jan. 11		
TUC	eP	04 52 36
	e	56 20
Jan. 11		
BC	eP	05 38 58
PF	eP	05 39 01
TUC	eP	05 39 54
	e	42 52
Jan. 11		
HUAN	eP	08 03 24
	e	04 10

Date and Station		Phase (GCT) h m s
Jan. 11, cont.		
PF	eP	08 11 41
TUC	eP	08 11 08
	e	11 43
Jan. 11		
PF	eP	09 44 06
Jan. 11		
TUC	eP	15 48 09
Jan. 11		
HH	eP	17 07 06
	i	07 14
	iS	07 59
Jan. 11		
HH	eP	21 15 45
Jan. 12		
HH	eP	02 05 36
Jan. 12		
BC	eP	03 36 05
PF	eP	03 36 08
Jan. 12		
HH	iP	05 00 05
PF	iP	04 59 08
SH	eP	04 59 58
TUC	eP	04 58 36
Jan. 12		
PF	e(P)	10 02 00
Jan. 12		
HH	eP	10 30 02
PF	i(P)	10 30 06
SH	eP	10 29 35
TUC	eP	10 30 50
	ePP	34 24

Date and Station		Phase (GCT) h m s
Jan. 12, cont.		
BC	iP	17 53 21
	i	53 23
	iS	53 53
PF	iP	17 52 58
Jan. 12		
HH	eP	18 28 31
	iS	29 17
PF	iP	18 30 23
Jan. 13		
PF	iP	00 38 01
	i	38 15
Jan. 13		
BC	eP	02 05 08
PF	eP	02 05 05
Jan. 13		
PF	eP	02 33 52
Jan. 13		
GC	iP	06 54 03.2
	iS	54 15.6
HH	eP	06 55 50
	eS	56 40
	eL	56 58
Jan. 13		
TUC	eP	10 14 24
	e	14 36
Jan. 13		
TUC	eP	14 21 15
Jan. 13		
PF	iP	17 27 10
TUC	eP	17 27 32
	e	27 42
Jan. 13		
BC	iP	17 35 01
BOZ	eS	17 46 23
	eL	18 02 08

Date and Station		Phase (GCT) h m s
Jan. 13, cont.		
COL	eL	18 01 07
GC	iP	17 35 25
	i	35 34
HH	eP	17 35 37
	i	36 39
PF	iP	17 35 04
RC	e(P)	17 36 30
	eL	18 06 58
SH	eP	17 34 48
TUC	iP	17 35 06
	ePP	38 44
	eL	58 00
Jan. 13		
HUAN	eP	19 35 29
	e	36 47
Jan. 13		
HH	eP	21 03 33
PF	iP	21 03 01
SH	eP	21 02 46
TUC	iP	21 03 02
Jan. 14		
HH	iP	01 13 56
Jan. 14		
HUAN	eP	01 29 04
	e	31 05
Jan. 14		
HH	eP	02 05 23
SH	eP	02 05 25
Jan. 14		
BER	eP	02 35 32
	ePPP	39 15
	iS	43 38
	e(SS)	48 20

Date and Station		Phase (GCT) h m s
Jan. 14, cont.		
BER	eL	02 49 49
T_S = 12 sec. A = 1.5mm. T_L = 20 sec. $A_{max.}$ = 1.0mm.		
BOZ	eL	02 49 08
BUT	e(S)	02 43 31
	eL	54 00
COL	e(P)	02 38 00
	eL	03 02 16
COLU	eS	02 41 36
	eSS	45 34
	eL	50 06
GC	eP	02 35 23
HONO	eS	02 43 34
	eL	51 10
HUAN	eP	02 32 10
	ePP	33 18
	eS	37 01
	eL	39 00
HH	iP	02 34 52
LIN	eL	02 48 02
LOG	eP	02 34 31
	ePP	36 31
	eS	41 49
	eL	46 06
PHIL	eS	02 43 24
	eSS	47 21
	eL	55 18
RC	eP	02 35 02
	eS	42 29
	eSS	46 03
	eL	49 10
SLC	eS	02 41 39
	eL	45 44
SJ	iS	02 41 27
	eL	46 13

Date and Station		Phase (GCT) h m s
Jan. 14, cont.		
SEA	eL	02 54 50
SH	eP	02 34 36
TUC	eP	02 33 21
	e	33 39
	ePP	34 56
	ePPP	35 35
	eS	39 47
	eL	42 30
Jan. 14		
HH	eP	04 35 01
PF	iP	04 36 33
Jan. 14		
BC	eP	04 58 50
PF	eP	04 58 43
	e	58 59
SH	eP	04 57 46
Jan. 14		
HH	eP	05 22 52
Jan. 14		
HH	iP	07 06 17
Jan. 14		
BH	eP	08 07 40
	iS	08 10
HH	eP	08 15 55
Jan. 14		
TUC	eP	13 12 22
Jan. 14		
GC	eP	21 21 30
HH	eP	21 20 21
Jan. 15		
BC	eP	03 58 52
HH	iP	03 58 04
	i	58 18

Date and Station		Phase (GCT) h m s
Jan. 15, cont.		
PF	eP	03 58 54
SH	eP	03 58 11
TUC	eP	03 59 29
Jan. 15		
HH	e(P)	05 19 45
PF	eP	05 15 22
	e	19 26
TUC	eP	05 15 20
	e	15 25
	e	19 23
Jan. 15		
HH	eP	08 21 48
Jan. 15		
SH	eP	10 21 41
Jan. 15		
BC	eP	11 25 39
HH	iP	11 24 48
PF	iP	11 23 34
SH	iP	11 23 19
TUC	iP	11 23 37
	e	23 53
Jan. 15		
BC	eP	13 22 23
PF	iP	13 22 27
TUC	iP	13 22 29
Jan. 15		
PF	eP	19 11 04
	iS	11 44
Jan. 15		
PF	eP	19 21 43

Date and Station	Phase	Phase (GCT) h m s
Jan. 15, cont.		
TUC	eP	19 22 13
	e	22 28
Jan. 15		
PF	eP	21 43 39
Jan. 15		
PF	eP	22 16 11
Jan. 15		
PF	e(P)	23 02 30
	i	05 03
Jan. 15		
PF	e(P)	23 30 54
Jan. 16		
TUC	e(P)	02 46 26
Jan. 16		
BC	eP	03 17 01
PF	eP	03 17 06
Jan. 16		
PF	eP	04 02 58
Jan. 16		
HH	eP	04 12 21
Jan. 16		
BC	eP	04 52 23
HUAN	eP	04 44 21
	iP	44 25
	iS	44 52
	eL	45 40
HH	eP	04 53 23
SH	eP	04 53 20
TUC	eP	04 51 47
	e	51 56
	ePP	53 13
	eL	05 08 10
Jan. 16		
BC	eP	06 14 05
	e	14 54

Date and Station	Phase	Phase (GCT) h m s
Jan. 16, cont.		
PF	eP	06 14 03
	i	15 09
Jan. 16		
HH	eP	07 11 56
PF	eP	07 11 10
TUC	eP	07 10 43
	e	11 09
Jan. 16		
BER	eL	11 53 52
BC	iP	11 17 39
	ipP	17 57
	e	25 03
	e(SeS)	27 37
BOZ	eSS	11 27 14
	esSS	28 08
	eL	29 08
BUT	eSS	11 27 18
	eL	29 28
CHI	e(S)	11 27 33
	e(SS)	31 58
	eL	40 31
COL	eP	11 13 48
	ePP	14 22
	e(S)	17 58
	eL	19 15
CC	eP	11 16 23
	ePP	18 32
HONO	eL	11 24 08
HH	iP	11 16 45
	ipP	17 07
	esP	17 30
	ePP	18 33
LIN	eL	11 40 21
PHIL	e(S)	11 30 10
	eL	43 42

Date and Station	Phase	Phase (GCT) h m s
Jan. 16, cont.		
PF	iP	11 17 43
RC	iP	11 17 53
	ePP	19 40
	eL	33 07
SLC	e(S)	11 25 38
	eL	28 44
SJ	eP	11 21 27
	eSKS	32 06
	eS	32 46
	eL	45 47
SH	eP	11 16 40
	e(S)	23 16
	esS	26 38
SIT	eP	11 14 36
	epP	14 56
	ePcP	17 30
	i(S)	19 48
	eL	23 38
TUC	iP	11 18 16
	i	18 25
	epP	18 31
	isP	18 41
	ePPP	21 24
	eS	26 14
	eL	32 35
UK	e(P)	11 17 20
	e(PP)	19 15
	e(S)	23 22
	eL	27 20
Jan. 16		
HH	eP	12 35 52
Jan. 16		
HH	iP	14 26 41
	i	27 55
	i	28 37
PF	eP	14 27 39
SH	eP	14 26 29
TUC	eP	14 28 13

Date and Station		Phase (GCT) h m s
Jan. 16, cont.		
BC	eP	15 06 40
HH	eP	15 05 40
	iP	05 43
TUC	eP	15 07 10
	e	07 26
	e	07 51
Jan. 16		
HUAN	eP	21 58 02
	e(S)	22 02 29
	eL	06 40
HH	eP	22 06 55
SH	eP	22 06 56
Jan. 16		
BH	eP	23 09 27
	iS	09 55
Jan. 17		
PF	eP	00 45 30
SH	eP	00 46 43
TUC	eP	00 44 31
	e	44 44
Jan. 17		
BC	eP	02 10 22
HUAN	eL	02 43 27
HH	eP	02 11 00
PF	eP	02 10 25
SH	eP	02 10 12
TUC	eP	02 10 23
	e	10 40
	e(S)	18 42
	eL	23 00
Jan. 17		
HH	eP	02 37 58

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
BC	eP	03 46 16
PF	eP	03 46 28
SH	eP	03 45 39
Jan. 17		
BER	ePS	07 41 42
	eSS	48 32
	eL	08 08 25
T_L = 20 sec. $A_{max.}$ = 1.1mm.		
BC	eP	07 23 58
	esS	34 55
BOZ	e(P)	07 24 14
	epP	24 56
	e(S)	34 22
	ePS	35 28
	e(SS)	40 32
	eSSS	43 44
	eL	47 12
BUT	eS	07 34 17
	eSS	40 06
	eL	46 30
CHI	ePP	07 29 54
	eSKS	35 59
	eS	37 08
	epPS	38 49
	eL	58 04
COL	e(P)	07 22 08
	ePPP	25 54
	eS	30 26
	eSS	34 30
	eL	37 31
COLJ	ePP	07 30 36
	eSKS	36 32
	eS	38 16
	ePS	40 07
	eL	58 30
GC	eP	07 23 26
	ePP	26 43
	eS	33 34

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
HONO	eL	07 34 22
HUAN	eP'	07 30 51
	ePP	33 43
	epPP	34 10
	eSKS	37 35
	eSKSP	43 44
	eSS	52 12
	eL	08 15 28
HH	eP	07 23 42
	e(S)	34 01
LIN	eL	08 01 24
LOG	eP	07 24 00
	ipP	24 44
	ePP	27 32
	eS	34 24
	iPS	35 42
	e(SS)	39 34
	eSSS	44 18
	eL	49 20
PHIL	e(PP)	07 31 21
	ePS	39 48
	eL	08 02 30
PF	eP	07 24 02
	eS	34 31
RC	eP	07 24 30
	eSKS	34 56
	ipS	35 24
	isS	35 40
	ePS	36 34
	e(SS)	41 46
	eL	48 20
SLC	eP	07 24 14
	e(PP)	27 42
	eS	34 28
	isS	34 45
	eSS	40 20
	eL	47 18
SJ	e(PP)	07 34 05
	eL	08 14 42

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
SH	eP	07 23 23
	ipP	23 57
	ePP	26 32
	eSKS	33 26
SIT	eP	07 22 05
	epP	22 47
	e(S)	31 26
	i(sS)	32 25
	eL	40 00
TUC	eP	07 24 20
	i	24 31
	ePP	28 09
	ePPP	30 14
	eSKS	34 54
	iS	35 22
	iPS	36 29
	eSS	41 27
	eSSS	45 01
	eL	49 18
UK	e(P)	07 23 20
	eS	33 24
	eL	47 36
Jan. 17		
HUAN	iP	09 34 30
	iS	34 46
	iL	34 57
HH	eP	09 44 42
PF	eP	09 44 16
TUC	eP	09 43 43
Jan. 17		
HH	eP	12 58 54
TUC	eP	12 57 37
Jan. 17		
HH	eP	14 48 26
	e	48 35
Jan. 17		
PF	e(P)	17 15 01

Date and Station		Phase (GCT) h m s
Jan. 17, cont.		
PF	e(P)	17 29 38
Jan. 17		
BC	eP	17 45 35
GC	eP	17 45 51
PF	iP	17 45 38
SH	eP	17 45 23
	i	46 24
TUC	iP	17 45 41
	e	45 58
Jan. 17		
PF	e(P)	20 05 55
Jan. 17		
PF	e(P)	22 16 10
Jan. 18		
PF	e(P)	00 01 27
Jan. 18		
PF	e(P)	00 31 20
Jan. 18		
SH	eP	01 35 53
TUC	eP	01 34 29
Jan. 18		
PF	e(P)	03 05 32
Jan. 18		
HH	eP	04 32 52
Jan. 18		
BH	eP	08 38 45
	iS	39 12
Jan. 18		
BC	eP	13 52 58
PF	eP	13 53 00
SH	eP	13 52 41
	ipP	52 58

Date and Station		Phase (GCT) h m s
Jan. 18, cont.		
TUC	eP	13 53 08
	epP	53 30
Jan. 18		
TUC	eP	15 59 12
Jan. 18		
SH	eP	17 45 23
Jan. 18		
PF	eP	18 35 11
SH	eP	18 33 08
TUC	eP	18 33 23
	e	35 16
Jan. 19		
TUC	e(P)	01 42 52
Jan. 19		
TUC	eP	01 54 51
Jan. 19		
HH	iP	02 36 34
	ipP	36 44
GC	eP	02 36 43
HUAN	eP	02 27 42
	e	28 05
	eS	30 42
	eL	32 08
PF	eP	02 35 46
SH	eP	02 36 28
TUC	iP	02 35 20
	i	35 35
	e	39 15
Jan. 19		
TUC	e(P)	04 45 30
Jan. 19		
HUAN	eP	06 19 35
	eS	23 48
	eL	25 46

Date and Station		Phase (GCT) h m s
Jan. 19, cont.		
HH	eP	06 22 05
	e	25 06
PF	eP	06 24 13
SH	eP	06 21 41
TUC	eP	06 20 41
	e	20 54
Jan. 19		
SH	eP	06 24 45
TUC	eP	06 23 46
	epP	24 06
Jan. 19		
SH	eP	06 54 20
Jan. 19		
COL	eL	07 53 20
GC	eP	07 53 56
	i	55 06
HH	eP	07 54 20
PF	iP	07 55 30
SH	iP	07 54 19.5
TUC	eP	07 56 09
	i	56 19
	epP	56 29
Jan. 19		
HH	eP	08 01 20
	e(S)	09 54
Jan. 19		
HH	eP	09 52 43
Jan. 19		
TUC	e(P)	10 19 17
Jan. 19		
SH	eP	18 43 29
TUC	eP	18 45 57

Date and Station		Phase (GCT) h m s
Jan. 19, cont.		
HH	iP	20 44 56
SH	eP	20 45 28
Jan. 19		
HH	eP	22 42 28
	iS	43 46
Jan. 20		
HH	eP	00 28 45
Jan. 20		
BC	eP	06 05 55
PF	eP	06 05 59
SH	eP	06 05 49
TUC	eP	06 05 57
Jan. 20		
BER	ePS	10 15 10
	eSS	22 00
	eL	36 40
T_{SS} = 16 sec. A = 0.8mm.		
T_L = 19 sec. $A_{max.}$ = 0.7mm.		
BC	iP	09 57 13
	ipP	57 30
BOZ	eL	10 26 07
BUT	eL	10 27 05
CHI	iPS	10 13 00
	eL	34 38
COL	ePS	10 10 38
	eSS	16 10
	eL	28 01
COLU	ePS	10 13 15
	esPS	13 48
	ePPS	14 32
	eL	31 47
GC	eP	09 57 39
	epP	57 55

Date and Station		Phase (GCT) h m s
Jan. 20, cont.		
HONO	eP	09 54 00
	iPcP	54 50
	ePPP	57 04
	eS	10 02 08
	eL	09 40
HUAN	eP	09 57 39
	eSKS	08 10
	ePS	09 57
	ePPS	10 35
	eSS	15 10
	eL	27 30
HH	eP	09 57 59
	ePP	10 02 01
LIN	eL	10 34 23
PHIL	eL	10 45 20
PF	iP	09 57 14
	eSKS	10 07 47
RC	eL	10 33 09
SLC	ePPS	10 11 32
	eL	25 12
SJ	ePS	10 14 00
	i	17 16
	eSS	20 14
	i(PSPS)	20 51
	eL	34 13
SH	eP	09 57 06
	iP	57 07.5
	ipP	57 22
SIT	eL	10 21 07
TUC	eP	09 57 13
	iP	57 14
	ipP	57 41
	ePP	10 00 55
	eSKS	08 00
	eS	08 27
	ePS	09 17
	eSS	14 41
	eL	21 37

Date and Station		Phase (GCT) h m s
Jan. 20, cont.		
UK	eL	10 19 50
Jan. 20		
HH	eP	11 24 51
TUC	eP	11 22 37
Jan. 20		
TUC	eP	13 16 56
Jan. 20		
TUC	eP	13 35 14
Jan. 20		
TUC	eP	13 41 02
Jan. 20		
TUC	eP	15 59 56
	e	16 00 26
	eL	08 46
Jan. 20		
PF	e(P)	16 00 37
	e	00 44
Jan. 20		
HH	eP	16 04 39
SH	eP	16 05 00
Jan. 20		
BC	iP	20 28 36
	eS	38 19
GC	iP	20 28 56.5
	ePcP	29 07
	ipP	30 34
	ePP	32 21
HH	iP	20 29 12
	epP	30 51
	iPP	32 46
	ePKKP	46 49
PF	iP	20 28 40
SH	iP	20 28 25
TUC	iP	20 28 42
	ePcP	28 51

Date and Station		Phase (GCT) h m s
Jan. 20, cont.		
TUC	eP	20 47 04
Jan. 20		
PF	eP	20 53 58
	e	55 12
	e	57 08
Jan. 21		
PF	iP	00 38 46
Jan. 21		
PF	eP	03 35 37
SH	eP	03 34 36
Jan. 21		
HUAN	eP	16 53 17
TUC	iP	17 00 05
	e	00 14
Jan. 21		
BH	eP	18 21 37
	i	23 16
BER	eL	18 29 20
BC	iP	18 27 59
COLU	eL	18 38 17
GC	iP	18 28 55
HUAN	iP	18 24 20
	i	24 25
	eS	28 20
	eL	30 02
HH	eP	18 28 38
PF	iP	18 27 55
SJ	eP	18 21 19
	e	21 35
	e	21 54
	eS	22 52
	eL	23 21
SH	eP	18 28 50

Date and Station		Phase (GCT) h m s
Jan. 21, cont.		
TUC	iP	18 27 24
	e	27 48
	e	28 12
	iPP	29 13
Jan. 21		
PF	eP	21 08 07
TUC	eP	21 07 44
Jan. 21		
PF	eP	21 25 46
TUC	eP	21 25 40
Jan. 21		
PF	eP	21 42 55
Jan. 21		
GC	eP	22 08 23
HUAN	eP	22 03 52
	eL	14 36
HH	eP	22 09 27
PF	iP	22 07 12
	e	12 58
SH	iP	22 07 44
TUC	iP	22 06 47
Jan. 22		
PF	eP	02 33 30
Jan. 22		
PF	eP	11 47 49
TUC	eP	11 47 47
Jan. 22		
BC	iP	13 08 03
GC	iP	13 08 21
HH	eP	13 08 34
	i	08 46
	i	10 10

Date and Station		Phase (GCT) h m s
Jan. 22, cont.		
LOG	eP	13 08 25
	ePP	11 53
PF	eP	13 06 06
SH	eP	13 07 49
	ePP	09 54
TUC	eP	13 08 10
	iP	08 11
	i	08 27
	ePP	10 16
Jan. 22		
BER	ePP	14 16 15
	eSKS	20 58
	ePS	24 51
	ePPS	25 56
	eSS	31 50
	eL	46 06
BC	iP	14 07 31
	eS	17 41
BOZ	e(P)	14 08 48
	eSKS	18 31
	iS	18 55
	esS	19 43
	epS	19 55
	esPS	20 41
	e(SS)	24 11
BUT	esS	14 19 27
	iPS	19 49
	eL	32 37
CHI	eSKS	14 19 36
	iS	20 27
	i	20 53
	iPS	22 08
	ipPS	22 55
	ePPS	23 13
	eSS	28 12
	e(SSS)	33 08
	eL	45 05
COL	eP	14 08 02
	iSKS	18 42
	esS	19 49
	eL	32 22

Date and Station		Phase (GCT) h m s
Jan. 22, cont.		
COLU	eSKS	14 19 49
	eS	21 16
	eSS	28 19
	eL	43 06
GC	iP	14 07 54
	epP	08 32
	eS	18 23
	eP'P'	33 54
HONO	eP	14 03 34
	e	04 42
	eS	10 24
	e(SS)	13 27
HUAN	iP	14 08 37
	epP	09 17
	ePP	12 40
	eSKS	19 02
	iS	19 53
	ePS	21 11
	eL	36 30
HH	iP	14 08 08
	ipP	08 47
	eSKS	18 27
	eS	18 56
	ePS	19 20
LIN	iSKS	14 19 05
	eSKKS	19 35
	i(S)	20 01
	eSS	26 37
LOG	eP	14 07 54
	ipP	08 31
	isP	08 51
	iPP	11 20
	epPP	11 53
	esPP	12 14
	eSKS	18 13
	iS	18 28
	ePS	19 28
	eL	31 09
PHIL	iSKS	14 20 18
	iS	22 07
	ePS	24 31
	iSS	30 11

Date and Station		Phase (GCT) h m s
Jan. 22, cont.		
PF	iP	14 07 35
RC	eP	14 08 28
	iSKS	18 54
	eS	19 32
	ePS	20 36
	eSS	25 48
SLC	e(P)	14 08 36
	iS	18 14
	iPS	19 29
	eSS	24 08
	eL	31 28
SJ	ePP	14 14 40
	e(PPP)	17 30
	eSKS	20 25
	eSKKS	21 19
	eS	22 33
	ePS	24 16
SH	iP	14 07 21.5
	ipP	07 56
	eS	17 20
SIT	iS	14 18 18
	iPS	19 24
	eL	36 09
TUC	iP	14 07 36
	ipP	08 14
	esP	08 30
	ePP	10 49
	epPP	11 16
	isPP	11 34
	eSKS	17 47
	esS	18 14
	iPS	18 38
	epPS	18 54
	ePKKP	25 56
	eP'P'	34 08
UK	iS	14 17 09
	eSS	22 10
	e(SSS)	25 30
	eL	28 30
Jan. 22		
BC	iP	14 25 59

Date and Station		Phase (GCT) h m s
Jan. 22, cont.		
HH	eP	14 25 41
	e	33 48
PF	iP	14 25 57
Jan. 22		
PF	eP	14 34 02
Jan. 22		
HUAN	eP	15 22 49
Jan. 22		
HUAN	eP	15 37 40
Jan. 22		
SH	eP	18 28 50
Jan. 22		
BC	iP	20 21 43
GC	eP	20 22 41
	ipP	22 58
HUAN	eP	20 13 52
	e	14 06
	eS	17 00
	eL	19 19
PF	iP	20 21 42
SH	iP	20 22 22
	i	22 35
TUC	iP	20 21 15
	i	21 27
Jan. 22		
BC	eP	21 01 06
GC	eP	21 01 00
PF	eP	21 01 10
SH	eP	21 00 42
Jan. 22		
HUAN	eP	23 15 28
	eS	16 16
	eL	16 52

Date and Station		Phase (GCT) h m s
Jan. 22, cont.		
COL	eP	23 25 24
	eS	25 30
Jan. 23		
PF	eP	17 27 26
TUC	eP	17 26 45
Jan. 23		
BC	eP	18 06 51
PF	eP	18 06 52
SH	eP	18 07 23
TUC	eP	18 06 27
Jan. 23		
HUAN	eP	18 54 12
	e	54 28
PF	eP	18 58 42
Jan. 23		
BC	eP	19 53 36
PF	eP	19 53 35
Jan. 23		
PF	eP	20 02 26
Jan. 23		
PF	eP	21 54 30
Jan. 24		
BC	eP	02 58 37
	iP	58 40
	i	58 41
	iS	59 25
PF	iP	02 58 28
TUC	iP	02 58 54
	i	59 03
	iL	59 50
Jan. 24		
HH	eP	06 20 38
PF	eP	06 19 28

Date and Station		Phase (GCT) h m s
Jan. 24, cont.		
TUC	eP	06 19 03
Jan. 24		
PF	eP	06 24 25
Jan. 24		
BC	eP	07 24 29
	e	24 39
GC	e(P)	07 26 02
HH	eP	07 25 48
TUC	eP	07 23 42
	e	24 05
Jan. 24		
HH	i(P)	07 31 15
Jan. 24		
HH	eP	08 07 02
PF	eP	08 05 50
TUC	eP	08 05 25
Jan. 24		
PF	eP	09 10 53
Jan. 24		
HH	eP	09 47 56
Jan. 24		
LOG	iP	10 23 45
	i	23 55
	eS	24 10
	eL	24 22
Jan. 24		
PF	eP	11 09 07
SH	eP	11 08 29
	e	08 36
Jan. 24		
PF	eP	12 01 50
Jan. 24		
HH	eP	12 35 31

Date and Station		Phase (GCT)
		h m s
Jan. 24, cont.		
PF	eP	12 36 08
SH	iP	12 35 23
Jan. 24		
GC	iP	15 08 57
HH	iP	15 09 14
SH	eP	15 09 40
TUC	eP	15 11 24
	e	11 40
Jan. 24		
BH	eP'	18 06 35
BC	eP	18 01 12
	ePP	05 42
	ePS	15 06
BOZ	eP	18 01 03
	ePP	05 21
	eSKS	11 37
	eS	12 55
	ePS	14 38
	eSS	20 36
	eL	30 03
BUT	eP	18 00 50
	ePP	05 22
	eSKS	11 30
	iSKKS	12 12
	eS	12 46
	ePS	14 33
	ePPS	15 20
	eSS	20 02
	eSSS	24 32
	eL	29 46
CHI	eP'	18 05 36
	iPP	07 00
	eSKS	12 31
	iSKKS	14 02
	iPS	17 04
	iSS	23 26
	eL	39 30
COLU	ePP	18 08 08

Date and Station		Phase (GCT)
		h m s
Jan. 24, cont.		
COLU	ePKS	18 09 21
	ePPS	20 04
	iSS	25 36
	eL	39 14
GC	eP	18 00 32
	iPP	04 49
HONO	eP	17 58 35
	ePP	18 01 42
	ePPP	03 09
	eS	08 21
	iScS	09 00
	eL	17 58
T_S = 15 sec. A = 6mm.		
T_L = 22 sec. $A_{max.}$ = 37mm.		
HUAN	iP'	18 06 50
	ePP	11 26
	iSKS	13 45
	i	16 26
	iSKSP	21 52
	i	29 12
	iSS	32 14
	i(SSS)	36 50
	eL	49 57
HH	eP	18 00 41
	i	02 49
	i	03 31
	ePP	04 55
	iPP	05 12
	eSKKS	12 02
	eS	12 32
LIN	ePP	18 07 42
	eSKKS	13 24
	ePS	16 23
	eSS	22 47
	eL	36 18
LOG	eP	18 01 05
	iP'	05 02
	iPP	05 31
	ePPP	07 12
	iSKS	11 42
	eS	13 10

Date and Station		Phase (GCT)
		h m s
Jan. 24, cont.		
LOG	iPS	18 15 04
	eSS	20 33
	iL	30 01
PHIL	eP'	18 05 40
	iPP	07 39
	iPKS	08 55
	ePPP	10 33
	iSKS	12 50
	iSKKS	14 43
	ePS	17 32
	iPPS	19 40
	iPPPS	21 19
	iSS	29 39
	e(SSS)	30 49
	eL	42 50
PF	eP	18 01 15
	ePP	05 46
	eSKS	12 02
RC	eP'	18 05 08
	ePP	06 00
	i	19 32
	eSSS	25 39
	eL	31 38
SLC	eP	15 01 12
	ePP	05 37
	iSKS	11 51
	eS	13 32
	eIS	15 16
	eSS	20 51
	eL	31 06
SJ	iP'	18 06 31
	eSKS	15 06
	e(PPS)	24 09
	ePPPS	24 45
	eSS	29 23
	e(SSS)	36 22
SEA	e(S)	18 12 22
	ePS	13 20
	eSS	18 40
	eL	25 50
SH	eP	18 00 37
	eSKS	11 14

Date and Station		Phase (GCT) h m s
Jan. 24, cont.		
SH	ePS	18 13 45
	ePPS	14 25
SIT	iP	17 59 33
	ePP	18 02 38
	iS	09 55
	iSS	15 56
	i(SSS)	20 26
	iL	23 22
TUC	eP	18 01 26
	eP'	04 54
	iPP	06 14
	ePPP	08 33
	eSKS	12 26
	eS	14 06
	iPS	15 48
	ePKKP	16 06
	ePPS	17 12
	eSS	22 01
	eSSS	26 10
	eL	32 11
UK	eP	18 00 38
	ePP	04 24
	eSKS	11 14
	eS	12 13
	ePS	13 30
	eSS	18 11
	eL	28 16
Jan. 24		
SH	eP	19 16 39
Jan. 24		
BC	eP	19 21 03
TUC	eP	19 22 20
Jan. 24		
TUC	e(P)	21 25 11
Jan. 24		
HUAN	eP	21 38 17
	eS	39 35
	eL	40 15
PF	eP	21 45 56

Date and Station		Phase (GCT) h m s
Jan. 24, cont.		
HUAN	eP	22 41 39
HH	eP	22 46 02
PF	eP	22 44 49
Jan. 24		
BC	iP	23 13 03
BUT	eL	23 26 04
GC	iP	23 14 43.5
	i(pP)	15 04
HUAN	eP	23 15 37
HH	iP	23 15 01
PF	iP	23 12 59
SLC	e(S)	23 18 28
	eL	22 05
SH	eP	23 14 09
TUC	iP	23 12 10
	i	12 27
	iS	15 33
	eL	17 35
Jan. 25		
GC	eP	06 11 53
	e	15 56
HUAN	e(P)	06 18 06
	e	24 05
HH	eP	06 11 02
PF	eP	06 12 36
SH	eP	06 11 49
TUC	e(P)	06 16 50
	e	17 38
Jan. 25		
HH	eP	08 43 03

Date and Station		Phase (GCT) h m s
Jan. 25, cont.		
HH	eP	09 48 59
Jan. 25		
HH	eP	14 00 07
Jan. 25		
BC	iP	15 41 56
	iS	42 29
PF	iP	15 41 45
	i	42 09
	i	42 12
Jan. 25		
HUAN	eP	22 45 09
	e(S)	46 03
	eS	46 18
	eL	46 40
Jan. 25		
SH	e(P)	23 59 52
Jan. 26		
HH	eP	02 26 38
TUC	eP	02 25 08
	e	25 49
Jan. 26		
HH	eP	05 11 08
Jan. 26		
HH	eP	09 12 47
TUC	eP	09 13 09
Jan. 26		
HH	eP	09 27 47
Jan. 26		
SH	e(P)	11 55 03
Jan. 26		
SH	e(P)	11 59 59
Jan. 26		
BER	ePP	14 33 32
	ePPS	45 06

Date and Station		Phase (GCT) h m s
Jan. 26, cont.		
BER	ePPPS	14 46 20
	e(SS)	52 18
	eSSS	54 56
	eL	15 07 00
T_L = 20 sec. $A_{max.}$ = 1.4mm.		
BOZ	eSS	14 44 38
	eL	54 33
BUT	eSS	14 43 59
	eL	54 53
CHI	e(SKS)	14 39 25
	ePS	41 11
	eSS	47 32
	eL	15 01 07
COL	iL	14 32 56
COLU	eL	15 03 26
GC	eP	14 24 27
	ePP	28 42
HONO	eL	14 48 33
HUAN	eP'	14 30 49
	eSKKS	42 09
	eSKSP	45 02
	eSS	55 53
HH	eP	14 24 42
LIN	eL	14 57 04
PHIL	ePPS	14 43 21
	eSS	48 25
PF	iP'	14 28 49
	ePS	39 07
RC	eL	15 02 07
SJ	eSS	14 53 42
SH	eP	14 24 34
	eSKS	35 12

Date and Station		Phase (GCT) h m s
Jan. 26, cont.		
SIT	iS	14 34 16
	eSS	40 06
	eL	46 46
TUC	eP	14 30 22
UK	eL	15 06 37
Jan. 26		
BC	eP	19 01 30
	i	01 59
BOZ	eL	19 04 57
BUT	eL	19 05 34
COL	eL	19 10 05
COLU	eL	19 21 25
GC	iP	19 00 05
	eL	05 17
HH	eP	19 00 56
LINC	e	19 03 36
	eL	11 26
PHIL	eL	19 20 06
PF	eP	19 01 32
	i	02 02
RC	i(P)	19 02 33
	ePP	03 06
	eS	06 03
	eL	08 21
SLC	eL	19 06 17
SH	eP	18 59 44
TUC	iP	19 02 32
	i	03 05
	i	03 47
	iS	06 04
	eL	08 11
Jan. 26		
HH	eP	19 59 21

Date and Station		Phase (GCT) h m s
Jan. 26, cont.		
PF	eP	19 59 28
RC	eP	20 00 26
SH	eP	19 57 38
TUC	eP	20 00 26
Jan. 26		
HH	eP	20 33 03
PF	eP	20 33 40
RC	eP	20 30 40
SH	eP	20 31 48
Jan. 26		
HH	eP	23 00 05
Jan. 27		
HH	eP	07 49 14
Jan. 27		
BER	esPP	12 21 00
	eSKS	22 14
	eSKKS	23 48
	eSPP	29 10
	e(sPS)	30 35
	iSS	33 41
T_{SS} = 15 sec. A = 2.0mm.		
BC	iP	12 09 45
	i	09 49
	ipP	11 53
	eSKS	19 19
	eSP	20 59
	esS	23 08
BOZ	eP	12 10 34
	epP	12 56
	ePP	13 52
	iS	20 42
	esS	24 36
	eL	36 45
BUT	eP	12 10 20
	ePP	12 19
	eSKS	20 11

Date and Station		Phase (GCT) h m s
Jan. 27, cont.		
BUT	iSKS	12 20 20
	esS	24 09
	eL	36 59
CHI	epP	12 13 43
	iSKS	21 10
	iS	22 26
	iSP	24 16
	ePS	25 29
	esS	26 26
	isPS	27 52
	iSS	29 59
	eL	48 16
COL	iP	12 10 19
	esP	13 39
	iSKS	20 10
	isS	24 03
	isPS	25 01
COLU	ePPP	12 19 40
	eSKS	21 28
	eS	23 04
	eSP	24 46
	ePS	25 46
	esS	27 07
	eSS	30 28
	eL	43 21
GC	iP	12 10 03
	i	11 14
	i	15 17
	iSKS	19 57
HONO	iP	12 06 01
	i	06 15
	i	06 39
	ipP	07 34
	isP	09 03
	iS	12 02
	iSoS	14 57
	eL	17 52
T_S = 10 sec. A_S = 14 mm.		
HUAN	e(P)	12 11 09
	epP	13 19
	ePP	15 06
	eSKS	20 30

Date and Station		Phase (GCT) h m s
Jan. 27, cont.		
HUAN	iSKKS	12 20 50
	iS	21 19
	eSP	23 14
	esPS	26 49
	e(SS)	28 45
	eL	39 20
HH	iP	12 10 18
	i	10 22
	ipP	12 39
	iSKS	19 58
	iS	20 52
	ePKKP	28 23
	eP'P'	35 59
LOG	eP	12 10 05
	iP	10 12
	epP	12 21
	esP	13 09
	ePP	13 32
	eSKS	19 44
	iS	20 07
	iSP	21 08
	isS	23 59
	e(SS)	27 09
PHIL	ePP	12 17 04
	ePPP	20 02
	iSKS	21 51
	iS	23 44
	eSP	25 45
	isS	27 50
	isPS	29 28
	iSS	31 59
PF	iP	12 09 48
	i	09 55
	iSKS	19 23
	iS	19 58
	iSP	20 29
	ePKKP	28 15
	eP'P'	36 31
	eSKPP'	38 47
RC	eP	12 10 42
	epP	13 00
	eSKS	20 24
	iS	21 12
	iSP	22 24

Date and Station		Phase (GCT) h m s
Jan. 27, cont.		
RC	isS	12 24 40
	esPS	26 08
	eSS	27 44
SLC	iP	12 10 16
	esP	13 26
	eSKS	19 40
	iS	20 07
	isS	24 00
	e(SS)	26 00
	eL	32 15
SJ	iSKS	12 22 01
	eSKKS	22 56
	eS	24 14
	eSP	26 06
SEA	e(P)	12 11 09
	e(pP)	13 00
	eSKS	20 46
	esS	24 08
SH	iP	12 09 33.5
	i	09 40.5
	ipP	11 50.5
	iSKS	18 57
	i(S)	19 18
	esS	22 48
	eP'P'	36 22
	eSKPP'	38 48
	eP'P'P'	56 27
SIT	eP	12 10 04
	iP	10 06
	isP	13 22
	eSKS	19 36
	esS	23 38
	i(SS)	25 40
TUC	iP	12 09 50
	i	09 57
	ipP	12 07
	isP	13 13
	eSKS	19 22
	iSKS	19 32
	iSP	20 30
	esS	23 28
	esPS	23 55
	iPKKP	28 04

Date and Station		Phase (GCT) h m s
Jan. 27, cont.		
TUC	eL	12 32 08
	iP'P'	36 24
	eSKPP'	38 47
UK	eP	12 09 34
	ePP	12 41
	esPP	15 36
	eS	18 36
	iScS	18 49
	iSKS	19 09
	esPS	23 03
	esSS	27 48
	eL	32 10
Jan. 27		
SH	eP	14 03 54
TUC	eP	14 04 12
Jan. 28		
SH	eP	00 18 23
TUC	iP	00 18 37
	e	19 08
Jan. 28		
HUAN	eP	01 07 23
	eS	07 55
	eL	08 02
Jan. 28		
HH	eP	02 16 50
Jan. 28		
BER	eP'	04 07 00
	ePP	10 04
	eSKKS	17 00
	ePPs	22 37
	ePPPS	24 12
	eSS	29 19
	eSSS	34 12
	eL	47 30
T_{PP} = 7 sec. A = 0.5mm.		
T_L = 21 sec. $A_{max.}$ = 0.7mm.		
BC	eP'	04 05 56
	ePP	06 42

Date and Station		Phase (GCT) h m s
Jan. 28, cont.		
BC	eSKKS	04 13 38
	eS	14 14
BOZ	eS	04 14 11
	ePS	15 53
	ePPS	17 25
	eSSS	26 35
	eL	30 06
BUT	eSKKS	04 13 15
	eSSS	25 35
CHI	ePP	04 08 18
	eSS	25 16
	eL	41 50
COL	eS	04 10 18
	ePS	11 42
	e(SS)	15 47
	eL	21 24
HONO	iP	03 59 05
	eS	04 08 18
HUAN	eP'	04 07 18
	ePP	11 00
	eSKKS	18 06
	ePPPS	26 14
	eSS	31 00
HH	eP	04 01 38
	ePP	06 07
	ePS	15 24
PHIL	iPP	04 10 10
	eSS	26 41
	eL	47 36
PF	eP'	04 05 38
	ePP	06 39
	eSKKS	13 39
	ePS	16 08
RC	e(P')	04 06 32
	ePP	07 12
	eSKS	12 44
	eSKKS	14 00
	ePPS	18 24
	eL	42 30

Date and Station		Phase (GCT) h m s
Jan. 28, cont.		
SLC	eS	04 14 12
	ePS	16 08
	ePPS	17 08
	eSS	22 16
	eL	32 15
SJ	eP'	04 08 00
	i	10 31
	iPP	11 43
	i	16 40
	i(SKKKS)	19 20
	i(SKSP)	22 45
	ePPPS	26 15
SH	eP	04 01 26
	ePP	05 42
	eSKS	11 59
	ePS	14 45
TUC	iP'	04 06 04
	i	06 53
	ePP	07 07
	eSKS	12 48
	eS	14 49
	iPS	16 40
	eSS	22 39
	eSSS	26 41
	eL	34 10
UK	eSS	04 20 30
	eL	34 20
Jan. 28		
SH	eP	08 35 54
Jan. 28		
HUAN	eP	14 06 20
	eS	07 00
	eL	07 26
Jan. 28		
HUAN	eP	14 25 32
	e(S)	26 10
	eL	26 27
Jan. 28		
HUAN	eP	14 56 31

Date and Station		Phase (GCT) h m s
Jan. 28, cont.		
BER	eSKS	16 15 30
	e(PS)	17 54
	eSS	23 15
	eL	37 30
BOZ	eL	16 37 46
BUT	eL	16 40 07
CHI	eSKS	16 15 34
	eL	40 54
COL	eL	16 25 36
HUAN	eP'	16 10 46
	ePP	13 06
	eIKS	14 29
	eSS	32 02
	eL	51 16
HH	eP	16 04 19
	i	05 18
PHIL	ePS	16 39 44
	eSSS	45 32
RC	ePS	16 38 25
SJ	ePP	16 10 52
	ePKS	12 46
	i	13 57
	ePS	20 00
	eL	36 34
SH	eP	16 05 14
	eSKS	15 55
TUC	eP'	16 10 02
	ePP	11 05
Jan. 28		
BC	eP	18 55 14
PF	eP	18 55 11
SH	eP	18 56 19
TUC	eP	18 54 28
	e	54 41

Date and Station		Phase (GCT) h m s
Jan. 28, cont.		
HH	eP	20 38 18
PF	eP	20 36 38
SH	eP	20 35 06
TUC	eP	20 37 31
Jan. 28		
PF	e(P)	21 25 29
Jan. 28		
HH	eP	22 25 21
	e	28 44
PF	e(P)	22 27 36
SH	eP	22 26 02
TUC	eP	22 28 26
Jan. 28		
PF	eP	22 58 57
SH	eP	22 57 07
TUC	eP	22 59 53
Jan. 29		
SH	eP	00 15 25
Jan. 29		
HH	eP	01 26 55
	e	28 28
PF	eP	01 28 05
Jan. 29		
BC	eP	03 57 53
HUAN	iP	03 48 05
HH	iP	03 58 49
PF	eP	03 57 50
SH	eP	03 58 42
TUC	iP	03 57 19

Date and Station		Phase (GCT) h m s
Jan. 29, cont.		
TUC	i	03 57 25
	e	57 53
Jan. 29		
HH	eP	10 14 40
TUC	eP	10 12 27
Jan. 29		
COL	eP	13 19 32
	eS	19 40
HH	iP	13 25 52
	e(S)	32 50
	eL	34 09
SLC	eL	13 37 06
SH	eP	13 26 31
TUC	eP	13 28 08
Jan. 29		
HH	eP	18 02 15
Jan. 29		
PF	eP	19 03 43
TUC	eP	19 04 22
Jan. 29		
PF	eP	21 34 21
Jan. 29		
PF	e(P)	22 45 57
Jan. 29		
HH	eP	23 01 49
Jan. 30		
BER	eL	03 33 34
BC	eP	03 08 21
BOZ	eL	03 35 00
BUT	eL	03 35 59
HONO	eL	03 30 12

Date and Station		Phase (GCT) h m s
Jan. 30, cont.		
HUAN	eP	03 05 12
	ePP	06 40
	eS	11 16
	eL	14 04
HH	eP	03 09 35
PF	eP	03 08 21
SLC	eL	04 29 06
SJ	eS	03 17 12
	eL	25 29
SH	eP	03 08 45
TUC	eP	03 07 55
	ePPP	11 35
	eL	23 11
Jan. 30		
HH	eP	06 45 29
	e	47 44
PF	eP	06 45 57
SH	eP	06 45 21
Jan. 30		
BER	e(P)	08 58 06
	ePP	09 02 20
	eSKS	08 40
	ePPS	12 12
	eSS	17 15
	eSSS	20 40
	e	27 25
T_L = 20 sec. $A_{max.}$ = 1.0mm.		
BC	eP'	09 02 49
BOZ	eSKS	09 08 30
	ePS	11 50
	e(SSS)	23 00
	eL	30 00
BUT	ePS	09 12 15
	eL	26 49

Date and Station		Phase (GCT) h m s
Jan. 30, cont.		
CHI	ePS	09 12 06
	eSS	18 12
	iL	28 32
COL	e(PP)	09 01 20
	eS	07 03
	eSS	13 00
	eL	19 45
COLU	eL	10 31 35
HUAN	eP'	09 03 44
	ePP	06 24
	ePKS	07 10
	eSKS	10 21
	eSS	24 26
	e(SSS)	29 50
	eL	39 12
HH	eP	08 57 53
	eP'	09 01 37
PHIL	eSKS	09 08 45
	e(PS)	11 53
	eSS	17 26
	e(SSS)	21 51
	eL	37 26
PF	ePP	09 02 42
	e	07 43
RC	eL	09 35 07
SLC	ePS	09 13 00
	eSSS	24 18
	eL	31 12
SJ	ePS	09 13 20
	ePPS	14 20
	iSS	18 33
	e(PSPS)	20 30
	eSSS	23 27
SH	ePP	09 03 29
	ePKS	04 02
SIT	ePP	09 01 27
	eSKS	08 02

Date and Station		Phase (GCT) h m s
Jan. 30, cont.		
SIT	ePS	09 10 16
	e(SS)	15 46
	eL	23 40
TUC	eP'	09 02 50
	ePP	04 06
	ePS	14 25
	e(SS)	22 46
	eSSS	25 48
	eL	39 17
UK	eL	09 41 38
Jan. 30		
HH	eP	12 53 13
TUC	eP	12 55 31
	e	55 43
Jan. 30		
BH	eP	16 24 38
	e	25 39
Jan. 31		
HUAN	eP	04 02 35
	eS	02 51
	eL	02 58
Jan. 31		
SH	eP	06 53 06
Jan. 31		
HH	eP	09 08 59
TUC	eP	09 07 14
Jan. 31		
HH	eP	19 14 49
Jan. 31		
HH	eP	21 09 31
PF	eP	21 08 29
TUC	eP	21 07 55
Jan. 31		
HH	eP	23 13 40
TUC	eP	23 13 21

Date and Station		Phase (GCT) h m s
Feb. 1		
HUAN	e(P)	07 14 27
Feb. 1		
HH	eP	12 00 32
Feb. 1		
PF	iP	16 57 11
SH	iP	16 56 57
TUC	iP	16 57 12
	e	57 28
	e	57 36
	ePP	59 07
Feb. 1		
HUAN	e(P)	18 43 03
	eL	19 51 49
PF	eP	18 46 02
Feb. 1		
PF	eP	18 58 51
Feb. 1		
PF	eP	19 51 05
	e	52 52
Feb. 1		
SH	eP	20 40 37.5
TUC	iP	20 40 47
	i	40 50
	i	40 56
	e	44 45
	eL	21 16 00
Feb. 1		
PF	eP	21 42 43
TUC	iP	21 42 42
Feb. 1		
HH	eP	22 29 20
Feb. 1		
PF	iP	23 55 40
SH	iP	23 55 25

Date and Station		Phase (GCT) h m s
Feb. 1, cont.		
TUC	iP	23 55 42
	e	57 27
Feb. 2		
SH	e(P)	00 12 3[illegible]
Feb. 2		
HUAN	iP	05 32 20
HH	eP	05 43 33
PF	eP	05 42 03
SH	eP	05 42 52
TUC	eP	05 41 34
	i	41 57
Feb. 2		
TUC	eP	06 31 53
Feb. 2		
HH	eP	19 05 02
Feb. 2		
HH	iP	22 37 21
Feb. 2		
HH	eP	23 58 01
Feb. 3		
HUAN	e	00 59 15
	eL	01 13 27
PHIL	eL	01 25 39
PF	eP	00 40 31
SH	eP	00 40 17
TUC	iP	00 40 32
	i	40 59
	i	41 08
	ePP	43 19
	eS	50 40
	eL	01 08 42
Feb. 3		
HH	eP	04 08 06

Date and Station		Phase (GCT) h m s
Feb. 3, cont.		
BC	iP	06 23 20
HH	eP	06 23 22
PF	eP	06 23 22
SH	eP	06 22 53
Feb. 3		
PF	eP	06 46 21
	e	48 42
Feb. 3		
HH	eP	11 10 10
Feb. 3		
BC	iP	11 53 48
HH	eP	11 54 29
PHIL	eL	12 39 22
PF	iP	11 53 52
SH	eP	11 53 39
TUC	iP	11 53 53
	i	54 05
	ePP	57 06
	e	58 41
	eS	12 04 04
Feb. 3		
HUAN	eP	12 59 02
	eS	59 37
	eL	59 56
Feb. 3		
HH	eP	20 41 05
Feb. 3		
PF	eP	22 04 33
	e	05 23
Feb. 4		
PF	iP	02 12 08
	i	12 54
	eS	22 55

Date and Station		Phase (GCT) h m s
Feb. 4, cont.		
BER	e	02 35 20
	eL	49 00
BC	eP	02 23 38
BOZ	eP	02 22 22
	eS	27 32
	e	28 14
	eL	29 16
BUT	eP	02 22 32
	e(S)	27 00
	eL	29 20
CHI	e(S)	02 37 06
	eL	38 09
COL	eL	02 19 09
COLU	eL	02 42 26
HH	eP	02 22 07
	i	22 12
	ePcP	25 12
	eL	29 09
	e(ScS)	31 23
LIN	eL	02 35 30
LOG	e	02 28 56
	eL	32 54
NK	e	02 37 07
	eL	40 04
PHIL	eL	02 41 49
PF	eP	02 23 40
RC	e	02 28 20
	eL	33 16
SLC	eL	02 43 20
SH	eP	02 22 34
SIT	iS	02 19 21
	iL	20 19

Date and Station		Phase (GCT) h m s
Feb. 4, cont.		
TUC	eP	02 24 22
	ePP	26 26
	e(PPP)	27 21
	eL	36 41
Feb. 4		
BC	eP	03 12 39
	e	12 50
	eS	22 44
HH	eP	03 12 26
	e	13 29
	e	13 38
SH	eP	03 12 30
TUC	iP	03 12 45
	i	12 55
Feb. 4		
HUAN	e(P)	05 05 20
	e	06 54
	e	10 11
HH	iP	05 03 41
	i	04 01
	i	04 10
PF	eP	05 04 18
SH	eP	05 03 45
TUC	eP	05 04 06
Feb. 4		
PF	eP	06 33 51
Feb. 4		
TUC	iP	10 49 41
	i	49 44
Feb. 4		
BH	eP	12 51 02
	iS	51 30
Feb. 4		
PF	eP	19 05 02

Date and Station		Phase (GCT) h m s
Feb. 4, cont.		
HH	iP	23 25 24
Feb. 5		
SH	eP	02 28 27
	eS	29 00
Feb. 5		
HH	iP	03 35 04
	iS	35 49
Feb. 5		
PF	eP	04 21 53
	e	24 35
Feb. 5		
HH	iP	07 16 25
Feb. 5		
PF	eP	07 41 43
Feb. 5		
PF	eP	12 14 52
	e	17 43
Feb. 5		
HH	eP	20 07 20
PF	iP	20 45 28
	i	45 36
	iS	46 22
Feb. 5		
SH	eP	21 09 26
TUC	eP	21 09 46
Feb. 6		
BC	iP	01 46 01
	ipP	47 02
	eSKS	56 08
	eS	56 21
HH	eP	01 45 42
	i	45 43
	ipP	46 29
	eS	55 41

Date and Station		Phase (GCT) h m s
Feb. 6, cont.		
PF	iP	01 46 04
	ipP	46 56
	eSKS	56 11
	eS	56 27
	esS	57 30
SH	iP	01 45 24
SIT	iS	01 53 07
	isS	54 00
TUC	iP	01 46 23
	ipP	47 15
	i	47 41
	eSKS	56 37
	eS	56 54
	e	57 09
	esS	58 15
	ePS	58 37
Feb. 6		
HH	eP	06 07 38
PF	eP	06 07 03
SH	eP	06 06 45
TUC	iP	06 07 07
	i	07 32
Feb. 6		
HH	iP	06 25 25
PF	eP	06 27 38
SH	eP	06 25 50
TUC	iP	06 27 03
Feb. 6		
BC	iP	13 15 05
	iS	15 44
HH	eP	13 20 02
PF	iP	13 15 12
	iS	15 18
SH	eP	13 15 37
	i	15 49

Date and Station		Phase (GCT) h m s
Feb. 6, cont.		
TUC	iP	13 16 14
	e	16 34
	eL	18 14
	iL	18 46
Feb. 6		
HH	eP	19 04 05
	e	05 47
Feb. 6		
HH	eP	20 07 20
Feb. 6		
COL	eL	21 17 00
HH	iP	21 19 07
	i	19 25
	i	19 59
	i	20 31
	i	21 09
	i	25 30
	i	26 09
	i	26 35
PHIL	eL	21 34 54
PF	iP	21 20 55
SLC	eL	21 30 08
SH	eP	21 20 03
SIT	eL	21 19 02
	iL	19 10
TUC	eP	21 31 34
Feb. 6		
HH	eP	21 51 51
Feb. 6		
HUAN	eP'	22 38 52
	e(SKKKS)	50 17
	e	54 36
SIT	i(S)	22 42 24
Feb. 6		
BER	eL	23 30 00

Date and Station		Phase (GCT) h m s
Feb. 6, cont.		
HUAN	e(P)	23 00 18
	e	03 02
	e	05 39
	eL	22 43
HH	iP	23 09 35
TUC	eL	23 11 08
Feb. 7		
HH	iP	01 40 44
Feb. 7		
HH	eP	04 48 53
Feb. 7		
HH	iP	07 13 44
Feb. 7		
BC	iP	10 56 39
	iS	57 15
PF	eP	10 56 41
	e	56 50
	i	57 33
Feb. 7		
PF	eP	16 41 32
Feb. 7		
PF	eP	17 55 42
Feb. 7		
BC	eP	19 19 52
HH	eP	19 20 15
PF	eP	19 19 53
SH	eP	19 19 36
TUC	iP	19 19 58
Feb. 7		
HH	eP	19 42 35
Feb. 7		
BER	eL	20 40 52

Date and Station		Phase (GCT) h m s
Feb. 7, cont.		
HUAN	eP	20 40 49
HH	eP	20 43 23
PF	eP	20 43 04
SJ	eP	20 35 29
	eS	36 09
	eL	36 27
	iL	36 40
SH	eP	20 43 53
TUC	iP	20 42 40
Feb. 7		
PF	eP	21 58 25
Feb. 7		
HH	iP	23 10 07
Feb. 8		
HUAN	eP	04 38 01
Feb. 8		
PF	eP	20 47 22
Feb. 9		
COL	e	00 15 40
	eL	15 48
HH	eP	00 17 50
Feb. 9		
HH	iP	03 55 54
SH	eP	03 55 34
Feb. 9		
HH	eP	01 26 18
Feb. 9		
PF	eP	04 53 57
Feb. 9		
BER	eP	13 09 54
	e	12 08
	e(PPP)	15 12

Date and Station		Phase (GCT) h m s
Feb. 9, cont.		
BER	iS	13 19 32
	eScS	20 17
	e	23 10
	eSS	24 22
	e	27 00
	eL	29 00
T_S = 12 sec. A_S = 6.3mm.		
T_L = 17 sec. $A_{max.}$ = 3.0mm.		
BC	eP	13 12 05
	ePP	16 10
	eSKS	22 44
	ePS	25 09
BOZ	eP	13 11 22
	e	11 36
	e	18 30
	e	20 24
	eSKS	21 44
	iSKS	21 51
	iS	22 15
	ePS	23 00
	eSS	29 55
	eL	32 32
BUT	eP	13 11 23
	e	11 32
	e	12 00
	e	12 51
	ePP	14 44
	ePPP	16 29
	e	21 17
	eSKS	21 51
	eS	22 15
	esP	23 00
	ePS	23 15
	eSSS	31 48
	eL	35 16
CHI	iP	13 10 40
	i	10 53
	e(PPP)	15 31
	iS	20 52
	eScS	21 19
	iPS	21 45
	eSS	26 30
	eSSS	30 09
	eL	32 15

Date and Station		Phase (GCT) h m s
Feb. 9, cont.		
COL	eP	13 10 23
	e	11 45
	ePP	13 17
	ePPP	15 25
	iS	20 25
	eScS	20 46
	e(SS)	26 43
	eSSS	29 05
	eL	29 25
COLU	eP	13 10 46
	eS	21 04
	iS	21 06
	ePS	22 08
	eL	31 43
HONO	eL	14 11 21
HUAN	eP	13 12 39
	eP'	16 03
	e	16 16
	ePP	16 54
	iPP	17 13
	eSKS	23 13
	iSKS	23 21
	i	23 51
	eSKKS	24 16
	iPS	25 54
	ePPS	26 58
	i	30 29
	eSS	32 00
	eSSS	35 53
	iL	40 35
LIN	eP	13 11 05
	ePP	14 40
	eSKS	21 28
	iS	26 46
	eL	33 45
LOG	eP	13 11 33
	i	11 49
	ePP	14 13
	ePPP	16 47
	iSKS	22 08
	iS	22 40
	ePS	23 24
	eSSS	30 18
	eL	32 46

Date and Station		Phase (GCT) h m s
Feb. 9, cont.		
MONT	eL	13 51 33
NK	iP	13 10 21
	iS	20 19
	eL	37 20
PHIL	iP	13 10 06
	i	10 30
	i	16 16
	iS	19 49
	iPPS	20 37
	iSS	24 39
	iL	31 08
PF	eP	13 12 00
	iP	12 04
	e	14 57
	ePP	16 00
	i	16 07
	e	16 42
	eSKS	22 42
RC	iP	13 11 10
	ePP	14 37
	iS	21 35
	iScS	22 19
	eSS	27 31
	eL	35 10
SLC	eP	13 11 40
	ePP	15 21
	iSKS	22 12
	eSKKS	22 52
	iS	23 29
	ePS	23 57
	eL	37 06
SJ	iP	13 10 38
	ePP	13 41
	e	15 02
	eS	20 48
	iS	20 52
	iPS	21 40
	ePPS	21 54
	i	22 40
	iSS	26 10
	eSSS	29 20
	eL	30 48

Date and Station		Phase (GCT) h m s
Feb. 9, cont.		
SEA	e(S)	13 23 04
	ePS	23 45
	eL	35 38
SH	eP	13 11 56
	i	11 47.5
	eSKS	22 34
SIT	iP	13 11 00
	i	11 45
	eS	21 22
	iS	21 34
	eSS	28 06
	eL	32 44
TUC	eP	13 12 08
	iP	12 12
	i	12 20
	i	12 34
	e	13 23
	iPP	16 20
	eSKS	22 43
	iSKS	22 51
	eS	23 42
	ePS	25 21
	iPS	25 22
	ePPS	26 20
	iPKKP	28 17
	i	28 38
	eL	40 48
UK	eS	13 23 46
	eSS	30 38
	eL	39 31
Feb. 9		
BC	eP	13 28 20
	i	28 45
PF	eP	13 28 21
	e	36 36
Feb. 9		
HH	eP	13 35 15
Feb. 9		
HH	eP	13 49 57

Date and Station		Phase (GCT) h m s
Feb. 9, cont.		
HH	eP	14 17 23
	e	21 41
	e	24 17
Feb. 9		
HH	iP	14 25 23
Feb. 9		
HI	eP	14 56 35
Feb. 9		
HH	eP	15 08 46
Feb. 9		
BER	eP'	15 14 00
	ePP	18 06
	e	19 25
	e	21 00
	e	26 22
	e(PPS)	32 20
	eSS	35 25
	eL	54 04
BC	iP'	15 12 52
	ePKKP	23 24
COL	e(PP)	15 10 23
	e	17 06
	eS	17 45
	ePS	18 49
	ePPS	19 48
	e(SS)	23 13
	eSS	24 40
	eL	30 15
HUAN	eP'	15 14 10
	e	14 45
	e	15 14
	ePP	18 17
	eSKS	21 44
	ePPS	31 50
	eSS	38 19
	eL	16 09 00
HI	iP'	15 12 43
LOG	eP'	15 12 48
	ePP	14 33

Date and Station		Phase (GCT) h m s
Feb. 9, cont.		
PF	eP	15 09 38
	iP'	12 53
SH	eP	15 08 32
	ePP	12 25
	e	12 59
TUC	iP'	15 12 59
	i	13 58
	i	14 40
	iPKKP	23 08
	e	25 43
	i	27 06
Feb. 9		
HH	iP	15 23 29
LOG	eP	15 23 26
Feb. 9		
HH	eP	16 05 17
Feb. 9		
HH	iP	17 01 32
	i	02 47
	e	03 24
Feb. 9		
HH	eP	18 19 16
Feb. 9		
HH	eP	21 04 22
	e	07 21
Feb. 9		
HH	eP	21 23 06
Feb. 9		
HH	iP	23 36 05
PF	eP	23 35 27
Feb. 10		
HH	iP	00 01 59
PF	iP	00 02 48
SH	eP	00 01 56
TUC	eP	00 03 15

Date and Station		Phase (GCT) h m s
Feb. 10, cont.		
HH	iP	00 22 37
Feb. 10		
HH	eP	03 02 09
Feb. 10		
HH	eP	03 08 02
PF	eP	03 09 01
SH	iP	03 07 58
TUC	iP	03 09 36
Feb. 10		
TUC	iP	03 31 20
	i	33 35
	i	33 46
Feb. 10		
HH	eP	04 04 03
Feb. 10		
HH	eP	07 01 49
Feb. 10		
HH	eP	14 36 35
PF	eP	14 34 07
Feb. 10		
HH	eP	16 11 52
Feb. 10		
HH	eP	16 34 21
Feb. 10		
PF	iP	22 25 18
	iS	26 02
Feb. 11		
SH	eP	00 06 51
	iS	07 06.6
Feb. 11		
HH	eP	02 19 18
Feb. 11		
HH	eP	02 37 15

Date and Station		Phase (GCT) h m s
Feb. 11, cont.		
BC	eP	03 30 19
	iP	30 28
	iS	31 11
HH	eP	03 32 43
	e	36 11
PF	iP	03 30 29
	iS	31 35
SH	eP	03 30 32
	eS	32 07
Feb. 11		
HH	eP	04 03 44
Feb. 11		
HUAN	e	04 16 15
	eL	28 32
HH	eP	04 11 40
PF	iP	04 13 16
Feb. 11		
HH	eP	08 05 29
Feb. 11		
HH	eP	08 13 11
Feb. 11		
HH	iP	09 33 03
Feb. 11		
HH	eP	10 04 11
Feb. 11		
HUAN	e	10 40 38
	eL	44 33
HH	eP	10 41 01
SH	eP	10 40 27
	i	40 35.5
TUC	iP	10 39 29
Feb. 11		
HH	iP	11 33 31

Date and Station		Phase (GCT) h m s
Feb. 11, cont.		
HH	iP	12 32 22
Feb. 11		
HH	iP	15 23 57
Feb. 11		
BER	eL	16 10 11
BC	eP	15 48 31
	iPcP	50 30
	eL	16 00 39
BOZ	eP	15 47 40
	eS	52 07
	i	52 29
	eL	54 16
BUT	eS	15 52 12
	eL	54 28
CHI	eP	15 49 28
	eFP	51 03
	eS	55 30
	eL	58 14
COL	iP	15 42 24
	iS	42 42
	eL	43 07
COLU	eL	16 06 47
HONO	eL	16 00 00
HUAN	eL	16 27 12
HH	eP	15 47 01
	iP	47 03
	eS	51 21
	iL	54 00
LIN	eL	15 58 10
LOG	eP	15 48 03
	e	48 21
	e	49 22
	eS	52 51
	eL	55 07

Date and Station		Phase (GCT) h m s
Feb. 11, cont.		
PHIL	iP	15 50 29
	iS	57 28
	e	16 00 31
	eL	04 50
PF	eP	15 48 39
	iP	48 41
	i	48 44
	eScS	57 14
	eL	16 01 37
RC	eP	15 48 18
	e	49 00
	e(S)	53 50
	eL	56 35
SLC	e	15 52 15
	eL	57 02
SJ	e(P)	15 53 31
	eS	16 02 12
	eL	10 22
SH	eP	15 47 38
SIT	iP	15 44 00
	eS	45 28
	iL	45 46
TUC	iP	15 49 20
	eS	55 21
	e	58 22
	e	59 49
	eL	16 01 25
Feb. 11		
BUT	eL	17 34 23
HH	eP	17 25 47
	e	26 12
LIN	eL	17 40 00
LOG	eL	17 36 23
RC	e(P)	17 36 55
	eS	38 03
	eL	38 10

Date and Station		Phase (GCT) h m s
Feb. 11, cont.		
HH	eP	18 15 49
	e	16 29
Feb. 11		
HH	iP	18 20 17
Feb. 11		
HH	iP	19 43 24
Feb. 11		
HH	eP	22 44 05
Feb. 11		
HH	eP	23 04 02
Feb. 11		
HH	iP	23 30 53
Feb. 12		
BER	eL	00 57 23
HH	eP	00 59 31
SJ	eP	00 51 54
	eS	52 15
	iS	52 16
	iL	52 24
Feb. 12		
HH	eP	02 02 31
Feb. 12		
HH	eP	02 10 28
Feb. 12		
PF	eP	07 06 09
Feb. 12		
HH	eP	12 27 15
Feb. 12		
HH	eP	15 01 06
Feb. 12		
HH	iP	20 19 30
Feb. 12		
HH	eP	22 40 07

Date and Station		Phase (GCT) h m s
Feb. 12, cont.		
HH	eP	23 20 15
Feb. 13		
BC	e(P)	00 28 27
HH	eP	00 29 01
PF	eP	00 26 28
	e	28 29
SH	e(P)	00 28 11
TUC	i(P)	00 28 34
Feb. 13		
PF	eP	00 57 40
Feb. 13		
HH	eP	03 37 44
Feb. 13		
BER	eSKS	05 22 15
	eS	23 30
	ePS	25 10
	eL	40 35
BC	ePP	05 16 00
BUT	eL	05 50 32
CHI	eL	05 40 29
COL	eS	05 18 06
	eL	26 10
COLU	eL	05 46 15
HUAN	eP'	05 16 56
	ePP	20 20
	eL	06 15 00
HH	eP	05 10 36
PHIL	eL	05 43 03
PF	e(P')	05 14 27
RC	eL	05 42 53
SH	eP	05 11 02

Date and Station		Phase (GCT) h m s
Feb. 13, cont.		
SIT	eL	05 42 00
TUC	ePP	05 16 12
	ePKKP	26 58
Feb. 13		
HH	eP	05 35 23
Feb. 13		
HH	eP	06 29 11
SH	iP	06 29 16.5
Feb. 13		
HH	eP	06 35 15
Feb. 13		
HH	eP	06 48 57
Feb. 13		
HH	e(P)	06 56 07
PF	eP	06 50 11
SH	eP	06 49 02
Feb. 13		
HH	eP	08 29 21
Feb. 13		
HH	eP	10 50 54
Feb. 13		
HH	eP	12 27 24
Feb. 13		
HH	iP	15 42 02
PF	eP	15 43 07
TUC	iP	15 43 11
	e	50 10
	eL	56 34
Feb. 13		
HH	eP	15 51 31
Feb. 13		
HUAN	iP	17 32 17

Date and Station		Phase (GCT) h m s
Feb. 13, cont.		
PF	eP	17 42 05
SH	eP	17 42 56
Feb. 13		
HH	eP	21 05 25
Feb. 13		
HH	eP	22 12 07
Feb. 13		
HH	iP	22 28 07
Feb. 13		
HH	iP	22 55 18
SH	eP	22 55 01
Feb. 14		
BC	eP	00 55 06
COL	eL	01 28 25
PF	iP	00 55 09
SH	eP	00 54 52
TUC	iP	00 55 14
	e	55 24
Feb. 14		
BC	eP	01 44 14
PF	eP	01 44 18
	e	46 24
SH	eP	01 43 55
TUC	iP	01 44 24
	e	46 38
Feb. 14		
PF	eP	02 35 10
Feb. 14		
HH	iP	05 59 21
PF	eP	05 58 37

Date and Station		Phase (GCT) h m s
Feb. 14, cont.		
BC	eP	06 27 52
	epP	30 24
HH	eP	06 28 29
PF	eP	06 28 05
	ipP	30 28
SH	iP	06 27 22
	epP	30 05
TUC	iP	06 28 13
	ipP	30 34
Feb. 14		
PF	iP	09 16 40
TUC	iP	09 16 43
Feb. 14		
PF	eP	10 34 04
TUC	eP	10 33 39
Feb. 14		
BER	eS	11 09 18
	iS	09 21
	esS	12 47
	eL	17 04
BC	eP	11 04 28
HUAN	eP	10 56 35
	e	56 58
	e	57 49
	e	58 33
	e(sP)	59 17
	eS	59 44
	e	11 00 18
	iScP	03 18
	iScS	07 00
HH	iP	11 04 39
	eSKPP'	33 00
MONT	eP	10 54 34
	eS	55 54
	eL	56 05

Date and Station		Phase (GCT) h m s
Feb. 14, cont.		
PF	i(P)	11 03 28
	ipP	06 11
	eS	13 06
SH	iP	11 04 34
	epP	06 46
	eS	14 20
TUC	iP	11 03 20
	i	03 30
	e	03 55
	epP	05 36
	ipP	05 45
	esP	06 29
	e(S)	12 15
Feb. 14		
PF	eP	11 46 24
Feb. 14		
BC	eP	12 07 14
HH	eP	12 06 50
PF	e	12 12 17
SH	eP	12 06 34
TUC	iP	12 07 35
	i	07 54
	i	08 12
Feb. 14		
PF	eP	13 28 32
	e	34 11
SH	eP	13 28 09
TUC	iP	13 28 37
	i	28 51
Feb. 14		
HH	eP	13 34 31
SH	eP	13 33 49
TUC	eP	13 34 17
	iP	34 18
	e	34 32

Date and Station		Phase (GCT) h m s
Feb. 14, cont.		
SH	iP	14 09 23
	e	15 23
TUC	e(P)	14 15 55
Feb. 14		
BOZ	eL	15 03 22
HH	eP	14 18 58
	e	20 31
SH	eP	14 18 30
	e	20 02
Feb. 14		
BH	eP	22 04 38
BER	eP	22 08 43
	ePP	10 25
	e(S)	14 35
	eS	14 48
	eL	18 00
BC	eP	22 10 20
BOZ	eL	22 27 27
CHI	eL	22 21 09
COLU	eS	22 14 53
	eL	19 30
HUAN	iP	22 01 45
	iS	02 44
	iL	03 02
HH	iP	22 11 49
LIN	eS	22 17 10
	eScS	19 28
	eSS	21 23
	eL	22 55
LOG	eP	22 10 31
MONT	eL	22 07 41

Date and Station		Phase (GCT) h m s
Feb. 14, cont.		
PHIL	eS	22 16 14
	eL	25 32
PF	iP	22 10 16
SJ	eP	22 06 36
	?PP	07 11
	eS	11 23
	iS	11 24
	eL	12 04
	iL	12 16
SH	iP	22 10 48.5
SIT	eL	22 44 36
TUC	eP	22 09 40
	e	12 16
	eS	17 05
	eL	22 28
Feb. 14		
BC	eP	22 08 58
	ePcP	11 15
BOZ	eS	22 12 44
	eL	16 12
BUT	eS	22 12 28
	eL	15 20
CHI	eP	22 10 39
	eS	16 44
COL	iP	22 02 45
	eS	03 02
	eL	03 30
COLU	eS	22 18 09
	eL	23 58
HH	iP	22 07 24
LOG	eL	22 15 23
PHIL	iS	22 17 20
	eL	21 08
PF	eP	22 09 00

Date and Station		Phase (GCT) h m s
Feb. 14, cont.		
SLC	eL	22 17 39
SEA	eL	22 11 51
	iL	14 18
SH	eP	22 07 36
SIT	iP	22 04 29
	eS	06 05
	iL	06 18
TUC	eP	22 09 38
Feb. 14		
HUAN	eP	22 17 49
Feb. 14		
HUAN	eP	22 32 15
Feb. 14		
HH	iP	23 01 05
Feb. 15		
BH	e(P)	00 33 55
BER	eL	00 47 23
BC	eP	00 39 32
HUAN	iP	00 31 03
	iS	31 55
	iL	32 11
HH	eP	00 40 34
PF	iP	00 39 33
SJ	e(P)	00 41 09
	i	41 43
	e	46 28
SH	eP	00 40 29
TUC	iP	00 39 00
	i	39 04
Feb. 15		
BC	eP	03 40 52

Date and Station		Phase (GCT) h m s
Feb. 15, cont.		
PF	iP	03 40 56
TUC	eP	03 40 55
Feb. 15		
PF	eP	03 50 15
Feb. 15		
BC	eP	04 06 36
	e	09 20
COL	e(P)	04 02 00
	eS	03 00
	eL	03 22
	iL	03 33
HH	iP	04 05 17
	i	06 06
PF	iP	04 06 39
SH	iP	04 05 31.5
SIT	eL	04 04 00
TUC	iP	04 07 19
	e	08 04
	e	09 05
	i	13 19
Feb. 15		
HUAN	eP	04 55 53
	eS	56 49
	iL	57 07
Feb. 15		
PF	eP	11 07 50
	e	08 32
Feb. 15		
BC	iP	15 14 16
HUAN	eP'	15 20 54
	ePP	24 01
HH	iP	15 13 57
LOG	iP	15 14 12
	e	14 32
	e	29 52

Date and Station		Phase (GCT) h m s
Feb. 15, cont.		
PF	eP	15 14 19
	ipP	15 01
SH	iP	15 13 39.5
	e(pP)	14 34
TUC	iP	15 14 38
	ipP	15 27
Feb. 15		
HH	iP	18 07 53
PF	eP	18 08 41
Feb. 15		
PF	e(P)	18 22 10
Feb. 15		
PF	eP	18 46 21
Feb. 15		
HUAN	e(S)	21 21 18
HH	eP	21 18 45
	e	23 37
PF	eP	21 18 41
	e	23 14
TUC	eP	21 18 24
	e	22 57
Feb. 16		
HH	eP	00 19 59
PF	eP	00 20 55
SH	iP	00 19 50
TUC	iP	00 21 30
	i	21 39
Feb. 16		
PF	eP	00 43 34
SH	iP	00 42 10
TUC	iP	00 44 07

Date and Station		Phase (GCT) h m s
Feb. 16, cont.		
TUC	eP	05 21 49
Feb. 16		
HH	iP	05 52 33
SH	eP	05 53 10
	iS	53 37.0
Feb. 16		
BC	iP	07 25 59
HH	iP	07 25 04
PF	iP	07 26 02
SH	iP	07 24 59
	epP	25 37
TUC	iP	07 26 37
	ipP	27 12
	i	27 31
Feb. 16		
BC	eP	17 43 01
HUAN	eP	17 39 38
	e	41 10
	e	45 58
	eL	48 04
HH	eP	17 44 14
PF	eP	17 43 01
SH	eP	17 43 33
TUC	eP	17 42 35
Feb. 16		
SJ	e	21 12 05
	e	12 41
	eL	17 14
Feb. 16		
BC	eP	22 45 14
HH	eP	22 46 34
PF	eP	22 45 43

Date and Station		Phase (GCT) h m s
Feb. 16, cont.		
SH	eP	22 46 23
TUC	iP	22 45 16
Feb. 17		
BC	eP	00 09 32
HH	eP	00 08 30
PF	iP	00 09 35
	ipP	09 42.5
	eS	15 31
SH	iP	00 08 36.
TUC	iP	00 10 08
	ipP	10 20
Feb. 17		
HUAN	eP	00 32 00
	eS	32 56
	eL	33 16
Feb. 17		
HUAN	eP	05 50 49
	eS	51 45
	eL	52 08
Feb. 17		
HH	eP	06 04 10
PF	eP	06 03 33
SH	iP	06 02 11.1
	iS	02 37.6
TUC	eP	06 04 51
	i	05 12
UK	eL	06 03 24
Feb. 17		
PF	eP	11 44 10
SH	eP	11 43 06
TUC	eP	11 44 44

Date and Station		Phase (GCT) h m s
Feb. 17, cont.		
PF	eP	14 04 56
SH	iP	14 04 41
TUC	iP	14 05 00
Feb. 17		
PF	eP	15 13 16
Feb. 17		
BC	e(P)	15 29 38
PF	eP	15 28 42
	e	30 38
Feb. 17		
HH	iP	20 13 41
	i	14 36
PF	eP	20 13 59
SH	eP	20 13 20
TUC	eP	20 14 19
Feb. 17		
PF	eP	22 30 08
Feb. 17		
HH	eP	23 38 46
Feb. 18		
HH	eP	00 56 03
Feb. 18		
HH	eP	05 50 18
Feb. 18		
TUC	eP	06 29 54
Feb. 18		
PF	eP	06 41 21
SH	eP	06 41 57
TUC	iP	06 40 56
Feb. 18		
HH	iP	15 02 49

Date and Station		Phase (GCT) h m s
Feb. 18, cont.		
SH	eP	15 02 28
TUC	iP	15 03 26
Feb. 18		
BER	eP	20 40 12
	ePP	42 21
	ePPP	43 47
	e	47 20
	iS	48 28
	eL	53 30
T_S = 6 sec. A_S = 1.6mm.		
T_L = 15 sec. $A_{max.}$ = 1.6mm.		
BC	iP	20 40 05
	eS	48 29
	eScS	50 17
BOZ	e	20 44 19
	eS	46 06
	eSS	50 20
	eL	51 30
BUT	eP	20 39 06
	e(PP)	41 20
	eS	46 12
	eScS	49 09
	eSS	49 54
	eL	50 48
CHI	eP	20 39 12
	ePcP	40 24
	ePP	41 16
	ePPP	42 21
	eS	46 31
	iS	46 40
	eScS	48 59
	eL	50 53
COLU	eL	20 48 15
HUAN	ePP	20 48 37
	eSKS	54 41
	eS	55 50
	ePS	57 24
	ePPS	58 52
	eSS	21 02 58
	eSSS	07 30
	eL	19 03

Date and Station		Phase (GCT) h m s
Feb. 18, cont.		
HH	iP	20 38 35
	i	38 42
	eS	45 41
LIN	e	20 47 06
	eS	49 13
	eL	51 47
PHIL	iP	20 39 16
	i	42 02
	iS	46 50
	e	48 05
	eSS	51 22
	eL	53 45
PF	iP	20 40 04
	eS	48 26
SLC	eP	20 39 22
	eS	47 19
	eScS	49 20
	eSS	50 55
	eL	52 26
SJ	iP	20 41 27
	e(PcP)	41 50
	ePP	44 20
	iS	50 59
	eSS	55 47
	eSSS	59 31
	eL	21 01 28
SH	eP	20 39 33
	eP'P'	21 09 34
SIT	iP	20 37 33
	ePP	39 02
	e(PPP)	40 30
	iS	43 42
	eL	46 46
TUC	iP	20 40 29
	i	40 39
	i	42 20
	eS	49 08
	iS	49 13
	e	49 35
	eSS	53 56
	eSSS	56 58
	eL	59 14
	eP'P'	21 09 10

Date and Station		Phase (GCT) h m s
Feb. 18, cont.		
UK	eL	20 49 17
Feb. 18		
BC	eP	21 09 21
PF	eP	21 09 25
Feb. 18		
HH	iP	22 32 29
Feb. 19		
SH	eP	00 04 04
Feb. 19		
PF	eP	06 22 34
Feb. 19		
HUAN	eP	06 55 35
	e	57 36
	e	58 22
Feb. 19		
BC	eP	08 27 26
HH	iP	08 27 44
PF	iP	08 27 31
SH	iP	08 25 15.7
	iS	26 03.5
TUC	iP	08 28 34
	i	28 44
UK	eP	08 26 50
	eS	27 09
	eL	27 15
Feb. 19		
PF	e(P)	08 56 11
	e	58 43
Feb. 19		
SH	iP	09 59 46
TUC	iP	10 00 06
	i	01 10

Date and Station		Phase (GCT) h m s
Feb. 19, cont.		
BC	iP	10 09 15
	ipP	09 26
HH	eP	10 10 29
	i	12 39
PF	iP	10 09 12
	ipP	09 27
SH	e	10 10 32
	ePcP	12 35
TUC	iP	10 08 31
	ipP	08 46
	i	12 03
	eScP	16 11
	e	17 07
Feb. 19		
HH	iP	10 42 36
PF	eP	10 44 05
TUC	iP	10 44 29
Feb. 19		
HUAN	eP	15 21 40
	e(S)	22 33
	eL	22 52
Feb. 19		
PF	eP	17 35 34
Feb. 19		
HH	eP	20 05 05
Feb. 19		
HH	eP	20 18 09
Feb. 19		
SH	eP	21 37 31
TUC	iP	21 37 48
Feb. 19		
BC	eP	22 17 15
	e	20 37

Date and Station		Phase (GCT) h m s
Feb. 19, cont.		
HH	eP	22 17 03
PF	eP	22 17 10
SH	eP	22 16 58
TUC	eP	22 17 22
	i	20 53
Feb. 20		
BC	eP	01 32 21
HH	iP	01 33 19
HUAN	eP	01 25 30
	e	26 15
	e(S)	27 15
	eL	27 49
PF	eP	01 32 18
SH	eP	01 33 13
TUC	iP	01 31 44
Feb. 20		
HUAN	eP	01 28 53
	e(S)	30 39
	eL	31 15
HH	iP	01 36 40
PF	eP	01 35 39
SH	eP	01 36 34
TUC	iP	01 35 04
Feb. 20		
SH	eP	02 24 45
Feb. 20		
SH	iP	03 26 35.7
	iS	26 44.6
Feb. 20		
BC	iP	06 07 10

Date and Station		Phase (GCT) h m s
Feb. 20, cont.		
HH	eP	06 06 09
PF	iP	06 07 14
SH	eP	06 06 13
TUC	iP	06 07 46
Feb. 20		
HUAN	eP	19 13 18
	eL	14 33
Feb. 20		
HH	eP	19 51 37
	e	55 45
SH	iP	19 47 36.3
	iS	47 57.5
Feb. 20		
HH	eP	22 14 06
Feb. 20		
PF	eP	23 44 21
Feb. 21		
PF	eP	01 10 43
Feb. 21		
PF	iP	15 33 17
Feb. 21		
HUAN	eP	16 11 59
Feb. 21		
HUAN	eP	21 08 46
Feb. 21		
HUAN	eP	21 16 57
	i	17 18
	eS	17 52
	eL	18 11
Feb. 21		
HH	iP	23 40 45
Feb. 22		
SH	eP	01 10 05

Date and Station		Phase (GCT) h m s
Feb. 22, cont.		
HH	eP	02 33 30
Feb. 22		
HUAN	eP	05 28 54
Feb. 22		
HUAN	iP	10 55 23
Feb. 22		
HH	eP	11 25 08
PF	iP	11 24 37
SH	iP	11 24 19
TUC	iP	11 24 39
Feb. 22		
HH	eP	18 56 47
Feb. 23		
BUT	eP	02 39 50
	iS	40 29
	eL	40 40
Feb. 23		
BER	ePP	09 48 20
	eSS	10 06 15
	eL	23 20
COL	eS	09 48 56
HONO	eL	10 23 20
HUAN	iP'	09 44 52
	e	45 21
	ePP	47 18
	iPKS	48 22
	eSKS	51 54
	eSS	10 05 21
	eL	21 12
HH	iP	09 39 14
	ePKKP	55 22
	iPKKP	55 37
	eP'P'	10 03 51
PF	iP	09 39 16
SH	iP	09 38 46

Date and Station		Phase (GCT) h m s
Feb. 23, cont.		
RC	eL	10 16 15
TUC	iPKKP	09 55 51
	e	10 03 14
	eL	12 20
Feb. 23		
HH	iP	10 57 06
Feb. 23		
HH	iP	15 06 15
SH	eP	15 06 08
Feb. 23		
SH	iP	17 25 47
Feb. 24		
BOZ	iP	02 39 39
	i	40 00
	i	40 23
	i	40 33
BUT	iP	02 39 49
	i	39 51
	iS	40 29
HH	eP	02 40 24
	iP	40 40
	iS	41 46
	i	42 09
PF	iP	02 40 56
	iS	43 08
RC	iP	02 41 40
	iS	42 56
	eL	43 14
SH	eP	02 41 25
TUC	e(P)	02 41 55
	e	41 53
	eL	41 45
Feb. 24		
HH	eP	04 05 13

Date and Station		Phase (GCT) h m s
Feb. 24, cont.		
SH	eP	05 10 02
Feb. 24		
BC	iP	08 16 23
	iS	17 43
BOZ	eP	08 18 48
	eS	21 35
	eL	22 33
BUT	e(P)	08 18 52
	eL	23 04
HH	iP	08 19 02
	eL	24 12
LIN	e(P)	08 19 52
	e	25 33
	eL	25 51
PHIL	eL	08 33 40
PF	iP	08 16 30
RC	iP	08 19 12
	e	19 34
	e(S)	22 30
	eL	23 00
SLC	e(P)	08 17 58
	eS	19 15
	eL	19 41
SH	eP	08 17 19
	eS	18 38
	eL	21 06
TUC	eP	08 16 47
	i	17 32
	e	17 35
	iS	18 11
	iL	18 21
UK	eL	08 20 15
Feb. 24		
HUAN	eP	15 07 45
Feb. 24		
BC	iP	15 17 59

Date and Station		Phase (GCT) h m s
Feb. 24, cont.		
TUC	eP	16 16 47
	i	16 49
	i	16 58
Feb. 24		
BC	iP	20 41 02
	e	43 00
	e	43 04
	e	43 16
Feb. 25		
HUAN	eP	06 15 47
Feb. 25		
HH	iP	15 18 18
PF	eP	15 17 19
	e	18 31
SH	eP	15 16 56
	epP	17 39
TUC	eP	15 17 25
	ipP	18 04
Feb. 25		
SH	eP	19 19 49
Feb. 25		
PF	eP	22 20 40
	e	33 40
HH	eP	22 21 43
HUAN	iP	22 12 14
	e(S)	13 10
	eL	13 27
Feb. 25		
HUAN	eP	22 25 06
Feb. 26		
PF	eP	08 18 41
Feb. 26		
HH	eP	08 39 54
Feb. 26		
HH	eP	09 06 42
	e	14 56

Date and Station		Phase (GCT) h m s
Feb. 26, cont.		
HH	eP	11 37 48
Feb. 26		
PF	iP	12 43 46
TUC	iP	12 43 48
Feb. 26		
HUAN	eP	12 51 04
	e	55 45
TUC	iP	12 55 19
Feb. 26		
HH	eP	13 01 29
Feb. 26		
HH	eP	15 06 41
Feb. 26		
HH	eP	18 14 42
Feb. 26		
TUC	eP	23 02 08
Feb. 27		
HH	iP	02 26 00
	e	29 22
SH	eP	02 25 56
TUC	iP	02 25 33
Feb. 27		
BC	iP	06 22 49
	iS	24 13
BOZ	eL	06 29 27
CHI	eL	06 35 56
HH	eP	06 25 30
	eL	30 00
LIN	eL	06 32 24
PF	iP	06 22 56
	iL	24 21
SH	eP	06 23 46

Date and Station		Phase (GCT) h m s
Feb. 27, cont.		
TUC	eP	06 23 13
	i	23 16
	eS	24 38
	iS	24 46
	eL	25 07
Feb. 27		
HH	iP	20 29 18
Feb. 27		
HH	eP	22 59 40
Feb. 28		
BER	e(P)	02 07 30
	ePP	09 35
	e(PPP)	10 42
	eS	14 55
	eScS	17 29
	eSS	18 38
	eL	22 17
BC	eP	02 02 59
BOZ	eP	02 01 55
	i	02 23
	eS	04 37
	eL	04 55
BUT	eP	02 01 39
	e	03 05
	iS	04 30
	eL	04 59
CHI	eP	02 04 27
	ePcP	07 05
	eS	09 42
	eL	11 30
COL	eP	02 01 23
	eS	04 09
	eL	04 56
COLU	ePP	02 07 29
	eS	12 06
	eL	14 50
HONO	eS	02 11 20
	eL	13 50
	iL	14 21

T_L = 8 sec. $A_{max.}$ = 6.6mm.

Date and Station		Phase (GCT) h m s
Feb. 28, cont.		
HUAN	eP	02 10 27
	eS	20 46
	e	22 50
	eL	45 28
HH	eP	02 01 11
	iP	01 13
	iL	04 48
LIN	eS	02 08 50
	eL	12 13
LOG	eP	02 02 20
	iP	02 27
	eS	05 39
	eL	05 51
NK	eP	02 06 09
	eS	11 12
	eL	14 24
PHIL	eP	02 05 41
	iPP	07 25
	eS	11 31
	eL	14 44
PF	iP	02 03 20
	i	03 39
	e(S)	07 43
RC	iP	02 03 00
	iS	07 00
	iL	09 25
SLC	eP	02 02 28
	e	03 09
	e(PcP)	04 43
	eS	06 03
	eL	06 44
SJ	eS	02 17 49
	eL	24 44
SH	eP	02 01 36
	e	02 35
	e(S)	04 46
	eL	07 22
SIT	iP	01 59 04
	iS	59 52
	iL	02 00 06

Date and Station		Phase (GCT) h m s
Feb. 28, cont.		
TUC	iP	02 03 43
	e	04 43
	e	05 23
	ePcP	06 28
	eS	08 26
	iS	08 38
	iL	09 58
UK	eP	02 01 55
	eS	04 48
	eL	05 35
Feb. 28		
HH	iP	08 09 32
SH	iP	08 09 29.5
TUC	iP	08 08 08
Feb. 28		
PF	eP	09 09 10
Feb. 28		
SH	eP	09 39 07
Feb. 28		
HH	eP	18 47 34
Feb. 29		
HH	iP	00 43 31
	iS	47 08
Feb. 29		
BC	eP	04 45 18
BOZ	eL	04 48 51
BUT	e	04 48 24
	eL	48 36
CHI	eL	04 57 26
COL	eL	04 47 32
COLU	eL	05 02 15
PHIL	eL	05 02 28
PF	eP	04 45 18

Date and Station	Phase	(GCT) h m s
Feb. 29, cont.		
SH	eP	04 43 58
TUC	iP	04 46 05
Feb. 29		
HH	eP	05 10 01
	e	13 23
Feb. 29		
HH	eP	10 23 25
Mar. 1		
BH	eP'	01 32 28
BER	iP'	01 32 30
	ePP	35 50
	eSKS	39 25
	ePPPS	50 32
	eL	02 10 40
$T_{P'}$ = 14 sec. A = 4.6mm.		
T_L = 20 sec. $A_{max.}$ = 6.4mm.		
BC	eP'	01 31 08
	iPP	32 13
	eSKS	37 59
	ePS	41 39
BOZ	iPP	01 32 07
	ePPP	34 30
	i	35 33
	iSKS	37 52
	eSKKS	38 54
	eS	39 37
	iPS	41 33
	iPPS	42 41
	eSS	47 27
	eSSS	51 55
	eL	58 19
BUR	iPP	01 34 33
	e(PKS)	35 14
	i(SKS)	38 55
	iSKKS	41 12
	iSKSP	44 29
	ePS	45 08
	e	50 08
	iSS	52 19
	i(PSPS)	53 48
	i(SSS)	56 06
	eL	02 09 49

Date and Station	Phase	(GCT) h m s
Mar. 1, cont.		
BUT	ePP	01 32 14
	e	33 15
	eSKS	37 46
	eSKKS	38 54
	ePS	41 19
	eSS	47 30
	eSSS	51 32
	eL	55 20
CHI	ePP	01 33 57
	ePKS	35 02
	e(SKS)	38 30
	eSKKS	40 35
	eSKSP	43 47
	ePPS	45 36
	eSS	51 11
	eL	02 04 04
COL	eP	01 25 29
	ePP	28 55
	ePPP	31 19
	eSKS	35 56
	eS	36 25
	iPS	37 25
	iSS	42 21
	eSSS	44 43
	iL	49 15
COLU	ePP	01 35 27
	e(SKS)	40 15
	eSKKS	41 37
	eSS	52 59
	eL	02 06 39
HONO	eP	01 24 22
	e	25 17
	ePP	27 09
	ePPP	28 46
	eS	34 04
	e(PPS)	35 15
	eSS	39 16
	eSSS	42 13
	eL	44 01
T_P = 5 sec. A_P = 3.1mm.		
T_S = 12 sec. A_S = 4.8mm.		
T_L = 20 sec. $A_{max.}$ = 8.9mm.		
HUAN	iP'	01 32 22
	ePP	36 29

Date and Station	Phase	(GCT) h m s
Mar. 1, cont.		
HUAN	ePPP	01 39 02
	eSKKS	42 55
	e	49 33
	eSS	55 01
	e(SSS)	02 02 55
	eL	09 01
HH	eP	01 27 03
	i	27 13
	iP'	30 51
	ePP	31 36
	eSKS	37 36
	ePS	41 03
	ePKKP	41 59
	e(P'P')	50 17
LIN	ePP	01 33 21
	ePKS	34 47
	e(SKS)	38 22
	eSKKS	40 07
	ePS	43 09
	ePPS	44 43
	eL	02 03 37
LOG	eP	01 27 23
	eP'	31 03
	ePP	32 11
	iSKS	37 52
	ePS	41 41
	eSS	47 25
	eSSS	52 19
	eL	58 47
PHIL	ePP	01 34 35
	iPP	35 06
	iPKS	35 26
	eSKSP	44 56
	eL	02 25 26
PF	eP	01 27 23
	eP'	31 18
	iPP	32 13
	eSKS	32 58
	e(PS)	41 46
RC	eP'	01 31 28
	ePP	32 45
	ePPP	35 00
	eSKS	38 17

Date and Station		Phase (GCT) h m s
Mar. 1, cont.		
RC	eSKKS	01 39 30
	iPS	42 30
	ePPS	44 00
	iSS	49 07
	eSSS	53 19
	eL	02 00 21
SLC	ePP'	01 32 16
	eSKS	37 55
	eSKKS	39 08
	iPS	41 46
	iSS	48 07
SJ	eP'	01 32 24
	ePP	36 52
	iPP	37 00
	e(SKS)	41 06
	eSKKS	43 34
	eSKKKS	44 23
	eSKSP	47 08
	iPPS	50 15
	iPPPS	51 58
	iSS	56 56
	iSSS	02 03 14
	eL	16 04
SEA	e(PP)	01 32 08
	e	34 11
	eS	38 07
	ePPS	41 04
	eSS	46 00
	eL	02 02 07
SH	eP	01 26 45
	ePP	31 17
	eSKS	37 24
	ePS	40 23
SIT	iP	01 26 07
	ePP	29 52
	iPPP	31 45
	e(SKS)	36 12
	iSKS	36 32
	iS	37 08
	ePS	38 21
	iPS	38 36
	iSS	43 41
	eL	50 02
TUC	eP	01 27 40
	iP'	31 15

Date and Station		Phase (GCT) h m s
Mar. 1, cont.		
TUC	i	01 31 29
	iPP	32 30
	eSKKS	39 26
	eS	40 30
	ePS	42 26
	eSS	48 49
	eSSS	52 10
	eL	02 00 30
UK	ePP	01 31 19
	eSKS	37 22
	eSKKS	38 21
	eS	38 48
	ePS	40 24
	eSS	46 05
	eL	56 17
Mar. 1		
BC	eP	08 12 58
	iP	13 05
	i(S)	13 44
LOG	eL	08 16 50
PF	iP	08 13 07
	iS	14 00
SH	e(P)	08 14 25
	iL	16 04
TUC	eP	08 13 41
	e	14 14
	e	14 24
	eL	15 08
Mar. 1		
HH	eP	08 58 20
Mar. 1		
BC	iP	14 11 29
HUAN	eP	14 02 34
	e	03 38
	e(S)	04 17
	eL	04 39
HH	iP	14 12 18
PF	iP	14 11 27

Date and Station		Phase (GCT) h m s
Mar. 1, cont.		
SH	iP	14 12 11
TUC	iP	14 10 56
Mar. 1		
HH	e(P)	16 51 58
	i	52 04
	e(P')	55 35
Mar. 1		
HH	i(P)	18 29 04
Mar. 2		
BC	e(P)	01 23 11
HH	iP	01 22 24
PF	e(P)	01 23 10
Mar. 2		
BC	e(P)	02 58 41
HUAN	eP	02 50 12
	e	51 02
	e(S)	51 26
	eL	51 46
HH	iP	02 59 34
PF	eP	02 58 38
TUC	iP	02 58 05
	e	59 42
Mar. 2		
BC	e(P)	08 59 34
PF	eP	08 59 26
TUC	eP	08 59 35
Mar. 2		
BC	e(P)	15 15 49
PF	e(P)	15 15 53
Mar. 3		
BC	e(P)	02 35 57

Date and Station		Phase (GCT) h m s
Mar. 3, cont.		
HUAN	eP	02 28 38
	i	29 00
	e	30 19
	e(S)	30 38
	eL	30 43
HH	iP	02 36 15
PF	iP	02 35 17
	epP	35 50
SH	e(P)	02 36 49
TUC	iP	02 34 41
	ipP	35 19
	e	36 19
Mar. 3		
HH	iP	04 13 30
SH	iP	04 13 22.5
TUC	iP	04 12 12
	epP	12 39
	isP	12 50
	e	13 17
Mar. 3		
BH	eP'	09 29 38
BER	e(P')	09 30 26
	ePKS	32 33
	eSKS	36 25
	eSKSP	41 08
	eSS	48 56
	eSSS	10 03 32
	eL	09 20
T_L = 18 sec. $A_{max.}$ = 2.0mm.		
BC	eP'	09 28 24
BOZ	ePP	09 28 10
	eSKS	34 32
	eS	35 32
	ePS	37 10
	eSS	42 36
	eSSS	46 25
	eL	09 51 20

Date and Station		Phase (GCT) h m s
Mar. 3, cont.		
BUR	ePPP	09 32 14
	e(SKS)	35 23
	eS	37 40
	ePS	39 25
	ePPS	40 33
	eSS	45 45
	eL	10 00 55
BUT	eSKS	09 34 18
	eS	35 20
	e(PS)	37 12
	eL	50 12
CHI	e(P')	09 29 25
	eSKS	35 22
	eS	37 21
	ePS	39 08
	ePPS	40 31
	eSS	45 21
	e(SSS)	50 41
	eL	56 11
COL	eP	09 21 36
	ePP	24 24
	eS	31 14
	e(SS)	35 52
	eSSS	39 36
	eL	41 40
COLU	ePP	09 31 37
	eSKS	36 14
	ePS	40 43
	eSS	47 30
	e(SSS)	53 12
	eL	10 00 36
HONO	eP	09 21 50
	e(PP)	24 37
	eS	31 38
	eSS	36 54
	eSSS	40 00
	eL	41 25
T_L = 19 sec. $A_{max.}$=2.5mm.		
HUAN	eP'	09 30 05
	ePP	34 44
	eSKS	37 56
	ePPP	38 19
	eSKKS	41 22
	eSKKKS	42 08

Date and Station		Phase (GCT) h m s
Mar. 3, cont.		
HUAN	e(PPS)	09 48 46
	eSS	55 15
	eSSS	10 01 49
	eL	19 54
HH	eP	09 23 31
	iP	23 34
	e	26 24
	eSKS	34 27
	iPKKP	40 00
	eP'P'	48 49
LIN	eSKS	09 35 05
	eSKKS	36 23
	ePS	38 35
	eSS	45 06
	eSSS	49 05
	eL	56 17
LOG	e(P)	09 24 12
	ePP	28 15
	e	29 37
	eSKS	34 29
	e(SS)	42 01
	eL	54 07
PHIL	e	09 34 44
	ePS	40 12
	eSS	46 45
	eL	58 51
PF	e	09 24 09
	i	27 16
	iPP	28 33
RC	e(P')	09 27 34
	ePP	28 38
	e	29 10
	eSKS	34 48
	eS	36 16
	e(PPS)	39 22
	eSS	43 48
	eSSS	47 50
	eL	54 46
SLC	eP'	09 28 10
	e(PP)	29 19
	e	30 23
	eSKS	34 41

Date and Station		Phase (GCT) h m s
Mar. 3, cont.		
SLC	eSKKS	09 35 29
	eS	35 56
	ePS	37 40
	eSS	42 43
	eSSS	47 03
	eL	53 55
SJ	e(P')	09 29 30
	ePP	33 04
	ePPP	35 28
	i(SKS)	37 29
	eSKKS	39 30
	eSKSP	42 23
	ePPS	45 14
	eSS	51 04
	eSSS	56 06
	eL	10 07 11
SEA	e(P)	09 24 42
	eSKS	34 48
	e(SS)	41 54
	eL	10 01 18
SH	eP	09 23 31
	e	26 55
	eSKS	34 10
SIT	eP	09 22 19
	ePP	25 45
	iS	32 32
	ePPS	33 49
	eSS	38 24
	eSSS	41 38
	eL	44 25
TUC	eP	09 24 26
	e	24 42
	e	27 48
	e(P')	28 07
	ePPP	31 13
	eSKS	35 21
	eS	36 12
	ePS	38 30
	iPKKP	39 42
	e(PPS)	40 21
	e(SS)	43 27
	eSSS	48 46
	eL	54 49

Date and Station		Phase (GCT) h m s
Mar. 3, cont.		
UK	e(PP)	09 29 18
	eS	35 19
	e(SS)	42 45
	eL	51 19
Mar. 3		
HH	iP	12 59 09
SH	eP	12 58 48
Mar. 3		
PF	iP	16 00 43
	iS	01 38
Mar. 3		
HH	e(P)	22 17 36
PF	eP	22 18 38
	i	18 44
TUC	e(P)	22 18 46
	i	18 52
Mar. 4		
BH	iP	01 57 41
	e(S)	02 01 34
BER	e(P)	02 01 28
	ePP	03 12
	eS	07 52
	i	08 48
	eScS	11 02
	eL	11 18
BC	iP	02 03 11
	e	06 35
BOZ	e(P)	02 03 50
	eS	12 30
	eSS	16 22
	eL	26 32
BUT	eL	02 27 09
CHI	eS	02 10 03
	eScS	12 12
	eL	14 48
COL	eL	02 36 36

Date and Station		Phase (GCT) h m s
Mar. 4, cont.		
COLU	eP	02 01 14
	eS	07 51
	e	08 24
	eL	11 14
HUAN	iP	01 53 26
HH	iP	02 04 05
	eP'P'	32 18
LIN	eP	02 02 33
	eS	10 16
	e(ScS)	12 50
	eL	19 17
PHIL	eL	02 17 36
PF	iP	02 03 07
	iPcP	03 51
RC	eP	02 03 13
	eS	11 32
	e	12 15
	eL	19 32
SLC	eS	02 11 36
	eL	23 25
SJ	eP	01 59 16
	e(S)	02 04 20
	eL	05 06
SH	iP	02 03 57
SIT	iS	02 16 00
	eL	35 14
TUC	iP	02 02 34
	i	02 43
	i	02 53
	iPcP	03 33
	iPP	04 39
	eS	10 05
	e	10 50
	eL	17 28
Mar. 4		
BC	i(P)	06 00 05
	e	00 33

Date and Station		Phase (GCT) h m s
Mar. 4, cont.		
HH	iP	05 59 20
	i	59 34
PF	eP	06 00 08
SH	eP	05 59 19
TUC	eP	06 00 33
Mar. 4		
TUC	iP	06 54 29
Mar. 4		
BC	eP	09 01 25
	i(S)	02 05
PF	eP	09 01 28
	i(S)	01 58
Mar. 4		
BC	eP	09 04 21
	i(S)	04 55
PF	eP	09 04 23
	i(S)	04 50
Mar. 4		
HH	eP	17 52 37
Mar. 4		
HH	eP	23 08 44
SH	eP	23 08 40
Mar. 5		
BC	eP	02 01 36
	e	01 43
PF	iP	02 01 39
	i	01 47
SH	eP	02 00 29
TUC	eP	02 02 17
Mar. 5		
HH	eP	06 39 33
Mar. 5		
HH	iP	09 10 15

Date and Station		Phase (GCT) h m s
Mar. 5, cont.		
HH	eP	10 12 15
SH	eP	10 12 08
Mar. 5		
HH	e(P)	10 49 23
Mar. 5		
PF	e(P)	12 47 03
SH	eP	12 46 46
TUC	eP	12 47 05
Mar. 5		
HH	iP	16 01 42
PF	e(P)	16 00 43
SH	eP	16 01 36
TUC	iP	16 00 08
Mar. 5		
HH	iP	20 14 54
Mar. 5		
HH	eP	22 04 43
Mar. 6		
BC	e(P)	04 56 48
	i	56 58
HH	iP	04 57 16
PF	e(P)	04 56 49
	i	57 02
SH	e(P)	04 56 27
	i	56 26.5
	e	59 50
TUC	e(P)	04 56 57
	i	57 09
	eL	05 25 32
Mar. 6		
PF	e(P)	05 24 04
Mar. 6		
BC	eP	05 34 28

Date and Station		Phase (GCT) h m s
Mar. 6, cont.		
HUAN	eP	05 24 41
HH	iP	05 35 23
PF	eP	05 34 26
SH	eP	05 35 15
	e	35 38
TUC	iP	05 33 52
	i	34 13
Mar. 6		
BC	eP	09 12 36
	i(S)	13 15
PF	eP	09 12 43
	eS	13 18
Mar. 6		
BC	iP	13 58 19
HH	iP	13 58 50
PF	iP	13 58 22
	e	14 00 20
SH	iP	13 58 04
	e	14 00 00
TUC	iP	13 58 25
	e	14 00 25
	e	01 39
Mar. 6		
PF	e(P)	14 09 06
SH	eP	14 08 49
TUC	iP	14 09 10
Mar. 6		
BC	eP	18 28 33
PF	iP	18 28 37
SH	iP	18 28 19.5
TUC	iP	18 28 40

Date and Station		Phase (GCT) h m s
Mar. 6, cont.		
PF	e(P)	19 58 10
SJ	iP	19 50 10
	eS	50 22
	iL	50 31
Mar. 6		
HH	iP	20 25 50
Mar. 6		
SH	eP	22 18 46
Mar. 7		
BC	iP	05 32 07
COL	eL	05 47 27
HH	iP	05 31 45
PF	iP	05 32 09
	i	32 54
	e	35 33
SH	eP	05 31 27
TUC	iP	05 32 28
	i	33 29
	e	35 58
	eL	06 00 40
Mar. 7		
PF	e(P)	09 39 29
Mar. 7		
HH	eP	10 04 01
Mar. 7		
BC	e(P)	11 24 01
PF	iP	11 24 03
	e	25 49
SH	e(P)	11 23 47
TUC	iP	11 24 06
Mar. 7		
BC	e(P)	17 10 03

Date and Station		Phase (GCT) h m s
Mar. 7, cont.		
PF	e(P)	17 10 08
SH	e(P)	17 08 42
TUC	e(P)	17 10 30
	e	10 46
Mar. 7		
BC	e(P)	18 31 07
PF	e(P)	18 31 14
SH	iP	18 30 11.5
	e	30 23
TUC	e(P)	18 31 46
Mar. 7		
BC	iP	18 36 09
PF	eP	18 36 09
SH	iP	18 35 50.5
TUC	iP	18 36 12
	e	38 08
Mar. 7		
BER	eS	19 13 36
	eSS	19 15
	e(SSS)	23 45
	eL	25 42
BC	iP	19 00 15
	ipP	00 31
	e	05 16
	eP'P'	30 09
BOZ	eS	19 07 22
	eSS	11 08
	eL	14 28
BUT	eS	19 07 04
	e	07 52
	eL	11 57
CHI	eL	19 23 18

Date and Station		Phase (GCT) h m s
Mar. 7, cont.		
COL	eP	18 56 05
	eS	19 00 45
	eL	02 29
COLU	eL	19 28 52
HONO	eL	19 10 26
HUAN	ePS	19 20 16
	eSS	26 40
	eSSS	31 34
	eL	43 30
HH	eP	18 59 16
LIN	eS	19 09 25
	e	13 18
	eL	23 08
PHIL	eL	19 21 15
PF	iP	19 00 18
	i(pP)	00 43
	eS	08 28
	eP'P'	30 05
SLC	e(P)	19 00 19
	ePPP	03 43
	eS	07 56
	eScS	09 49
	e(SS)	12 19
	eL	15 27
SJ	eL	19 43 34
SH	eP	18 59 18
	ipP	59 34.5
SIT	eP	18 57 16
	eS	19 02 52
	eL	05 32
TUC	eP	19 00 47
	iP	00 48
	ipP	01 04
	ePP	03 22
	eS	09 19
	e	09 50
	eL	19 32
	eP'P'	29 46

Date and Station		Phase (GCT) h m s
Mar. 7, cont.		
SH	iP	19 22 27
TUC	eP	19 23 56
	e	24 11
Mar. 7		
BC	e(P)	20 08 29
	e	08 43
PF	e(P)	20 08 32
	e	08 49
SH	iP	20 07 33.5
	e	07 47
TUC	eP	20 09 02
	e	09 16
Mar. 8		
BC	e(P)	02 31 32
HUAN	eP	02 23 26
	eS	25 55
	eL	26 01
PF	e(P)	02 31 29
SH	e(P)	02 32 10
TUC	eP	02 31 02
	i	31 09
	e	31 22
Mar. 8		
BC	eP	11 14 45
PF	eP	11 14 48
SH	eP	11 14 29
TUC	iP	11 14 51
Mar. 8		
BC	eP	11 21 27
PF	eP	11 21 30
SH	eP	11 21 11
TUC	iP	11 21 32
	i	21 41
	i	21 50

Date and Station		Phase (GCT) h m s
Mar. 8, cont.		
SH	eP	14 42 17
	i	42 30.5
TUC	e(P)	14 43 45
Mar. 8		
BER	ePKS	16 30 50
	eL	17 05 00
BC	eP	16 21 08
	iP	21 10
	iPP	24 33
	i	25 07
BOZ	i(SKKS)	16 32 30
	e(SS)	40 06
	e(SSS)	43 54
	eL	53 34
BUR	eSS	16 45 35
	eL	17 05 30
CHI	eL	17 03 29
COL	eS	16 30 11
	e(ScS)	31 07
	ePPS	31 29
	eSS	35 40
	e(SSS)	40 11
	eL	41 47
HONO	e(S)	16 25 05
	eL	31 27
HUAN	eP'	16 26 57
	ePP	29 11
	ePKS	30 18
	ePPP	31 22
	ePS	39 39
	eSS	46 34
	eL	17 03 00
HH	iP	16 21 12
	eSKS	31 45
LIN	eL	17 02 17
PHIL	eSKS	16 34 38
	eL	17 09 45
PF	iP	16 21 11
	e(PKKP)	37 58

Date and Station		Phase (GCT) h m s
Mar. 8, cont.		
RC	ePS	16 35 20
	eL	56 35
SLC	ePPS	16 34 18
	eL	48 44
SJ	eL	17 14 48
SH	eP	16 20 40
	ePP	24 12
	eS	31 34
SIT	eP	16 20 19
	eS	30 44
	iScS	31 08
	ePPS	32 00
	e	35 06
	e(SSS)	40 20
	eL	43 00
TUC	eP	16 21 25
	i	21 39
	i	22 45
	ePP	25 20
	ePPP	27 23
	eS	32 49
	ePPS	34 30
	eP'P'	46 03
	eL	49 22
UK	e(PPS)	16 32 28
	e	34 14
	eL	48 08
Mar. 8		
BC	e(P)	19 02 13
PF	iP	19 02 17
Mar. 8		
PF	e(P)	19 33 14
Mar. 8		
BC	iP	20 24 18
HH	iP	20 24 49
PF	iP	20 24 21
	e	26 22

Date and Station		Phase (GCT) h m s
Mar. 8, cont.		
SH	iP	20 24 03.5
TUC	iP	20 24 25
Mar. 8		
BC	eP	21 43 48
HH	iP	21 43 16
PF	eP	21 43 49
SH	eP	21 43 06
TUC	e(P)	21 44 19
Mar. 8		
HH	eP	22 52 06
Mar. 9		
HH	eP	09 19 20
	i	19 29
SH	eP	09 19 55
TUC	eP	09 18 34
Mar. 9		
HH	eP	10 47 54
	i	48 05
PF	e(P)	10 48 43
SH	e(P)	10 47 53
Mar. 9		
BH	iP	17 41 54
	iS	42 08
Mar. 9		
HH	eP	18 42 28
SH	e(P)	18 42 35
Mar. 9		
BER	ePP	19 10 33
	ePKS	12 04
	eSKKKS	17 55
	ePS	21 18

Date and Station		Phase (GCT) h m s
Mar. 9, cont.		
BER	ePPPS	19 23 58
	eSS	28 24
	ePSPS	29 28
	eL	44 02
BC	eP	19 01 37
BOZ	e(S)	19 14 04
	iPS	15 26
	i(SS)	19 24
	iSSS	24 14
	eL	29 00
BUR	ePS	19 18 57
	ePPS	20 21
	eSS	26 05
	eL	39 15
BUT	eS	19 13 16
	eSS	20 04
	eL	27 26
CHI	eSKKS	19 15 23
	ePS	17 31
	eSS	24 04
	eL	39 05
COL	e(PP)	19 03 25
	eS	10 35
	e(ScS)	11 19
	eSS	16 01
	eL	21 45
COLU	eL	19 41 34
HONO	eS	19 06 08
	eSS	10 25
	eL	12 32
T_S = 9 sec. A = 2.1mm.		
T_L = 20 sec. $A_{max.}$ = 2.7mm.		
HUAN	eP'	19 07 16
	ePKS	10 54
	e(PPP)	12 22
	ePPS	22 34
	eSS	28 09
	eSSS	33 00
	eL	43 00

Date and Station		Phase (GCT) h m s
Mar. 9, cont.		
HH	e(P)	19 01 29
	iP	01 38
LIN	ePS	19 16 33
	eSS	22 37
	eL	40 09
PHIL	e	19 05 16
	e(S)	17 39
	e(SS)	25 21
	e	27 07
	eL	42 18
PF	eP	19 01 38
	iPP	06 08
RC	ePP	19 07 08
	eSKS	13 15
	ePS	16 08
	eSS	22 04
	eSSS	25 42
	eL	34 40
SLC	e(P)	19 02 49
	eSKS	12 39
	ePS	14 32
	eSS	20 27
	e(SSS)	23 52
	eL	29 42
SJ	eP'	19 07 30
	e(PKS)	12 56
	eSKSP	21 31
	eSS	29 18
	e(SSS)	35 24
	eL	53 44
SH	eP	19 01 02
SIT	eS	19 11 09
	ePS	12 08
	e(SS)	16 32
	eL	23 24
TUC	e	19 04 37
	ePP	06 07
	ePPP	08 30
	eSKKS	19 13 02
	e(S)	14 27
	ePS	15 07
	eSS	20 42
	eL	30 51

Date and Station		Phase (GCT) h m s
Mar. 9, cont.		
SH	eP	19 53 27
Mar. 9		
HH	iP	22 33 19
PF	iP	22 34 08
SH	eP	22 33 16
Mar. 10		
BH	e(P)	10 30 41
	e	31 36
BC	e(P)	10 36 10
HH	iP	10 37 10
	iPcP	38 51
PF	i(P)	10 36 05
	e(ScP)	41 58
SH	e(P)	10 38 49
TUC	iP	10 35 27
	i(PcP)	38 13
	i(ScP)	41 40
Mar. 10		
BER	ePKS	11 48 35
	ePS	57 05
	e(PPS)	58 30
	eSS	12 04 02
	eL	13 10
BC	eP	11 38 23
BOZ	eS	11 50 28
	eL	12 04 48
BUT	eSKKS	11 50 02
	ePPS	52 50
	eL	12 05 17
CHI	ePS	11 54 03
	e(PPS)	56 11
	eSSS	12 04 21
	eL	18 47

Date and Station		Phase (GCT) h m s
Mar. 10, cont.		
COL	eSKS	11 49 23
	eS	50 35
	eL	12 02 27
HONO	e	11 41 43
	eSS	46 24
	eL	48 12
HUAN	ePS	11 51 43
	ePPS	52 34
	eSS	57 58
	eL	12 08 43
HH	eP	11 38 55
LIN	eL	12 14 24
PHIL	eL	12 24 15
PF	eP	11 38 24
	i	38 58
	ePP	41 58
RC	eSKS	11 50 00
	eSS	57 44
	eL	12 12 18
SLC	e(PP)	11 43 34
	eSKS	49 22
	eS	50 03
	ePS	50 52
	e(SS)	55 56
	eL	12 04 52
SJ	ePKS	11 47 20
	eSKS	51 17
	ePS	55 20
	e(SS)	12 03 17
SH	eP	11 38 02
SIT	eSKS	11 49 16
	e(PS)	50 30
	eL	12 02 07
TUC	eP	11 38 30
	e(PP)	42 40
	eSKS	49 05
	eS	49 30

Date and Station		Phase (GCT) h m s
Mar. 10, cont.		
TUC	eSS	11 55 12
	eL	12 02 26
Mar. 10		
HH	iP	15 38 29
PF	e(P)	15 37 10
Mar. 10		
HH	e(P)	20 18 46
Mar. 10		
BER	eL	21 24 35
BC	eP'	20 22 52
HUAN	e(P')	20 25 04
HH	eP'	20 22 42
	ePP	23 21
PF	eP'	20 22 54
	ePP	23 53
SH	ePP	20 22 56
TUC	eP'	20 22 57
	ePP	24 16
	ePPP	26 09
	ePS	34 15
	eL	21 00 08
Mar. 11		
HUAN	eP	03 09 13
HH	i(P)	03 07 59
TUC	iP	03 08 13
Mar. 11		
HH	eP	11 46 34
Mar. 11		
HH	e(P)	14 07 18
Mar. 11		
HUAN	eP	22 00 52
	e(S)	01 50
	eL	02 07

Date and Station		Phase (GCT) h m s
Mar. 11, cont.		
SH	e(P)	22 12 27
Mar. 12		
BC	e(P)	04 32 07
	i	32 37
	eS	34 15
HH	eP	04 33 01
	eS	36 05
	eL	37 02
PF	eP	04 31 11
	iS	33 28
RC	e(P)	04 31 24
	e(S)	32 30
	eL	32 54
SH	eP	04 32 48
TUC	e(P)	04 31 03
	i	31 11
	i(S)	32 50
	iL	33 06
Mar. 12		
BC	e(P)	07 40 22
HH	eP	07 39 27
	e	43 08
PF	e(P)	07 38 58
	e	40 19
	e(S)	44 10
SH	e(P)	07 39 59
TUC	e(P)	07 38 56
Mar. 12		
HH	iP	10 41 07
Mar. 12		
HUAN	iP	10 50 05
	iS	50 20
	iL	50 45
HH	eP	11 00 47
PF	iP	10 59 50

Date and Station		Phase (GCT) h m s
Mar. 12, cont.		
SH	iP	11 00 39.5
TUC	iP	10 59 18
	e	11 00 09
Mar. 12		
BC	iP	12 07 52
	e	09 38
HUAN	eP	12 00 11
	eS	00 39
	eL	00 53
PF	eP	12 07 51
	i	09 37
	e(S)	13 25
TUC	e(P)	12 08 08
Mar. 12		
HH	e(P)	16 53 45
PF	e(P)	16 54 38
	e	58 28
Mar. 12		
HUAN	eP	18 19 08
	e(S)	20 01
	eL	20 26
Mar. 12		
BER	eS	20 34 05
	eSS	37 00
	eL	38 00
BC	eP	20 28 37
HUAN	eP	20 19 02
	iS	19 48
	iL	20 08
HH	eP	20 29 30
PF	eP	20 28 30
SJ	eS	20 30 12
	eL	32 32
SIT	eL	21 08 28

Date and Station		Phase (GCT) h m s
Mar. 12, cont.		
TUC	e(P)	20 27 56
	e	28 02
	i	28 22
	eL	49 37
Mar. 13		
BC	e(P)	00 30 44
HH	iP	00 29 48
	i(pP)	29 55
PF	iP	00 30 41
Mar. 13		
PF	e(P)	05 03 42
Mar. 13		
BC	eP	05 14 43
HUAN	iP	05 05 11
	iS	05 50
	eL	06 01
HH	iP	05 15 38
	i(pP)	15 54
PF	eP	05 14 40
SH	eP	05 15 28
TUC	eP	05 14 09
	i	14 16
	e	14 35
	eL	36 27
Mar. 13		
BC	iP	05 20 08
HH	iP	05 18 49
	epP	19 18
PF	iP	05 20 11
	i(pP)	20 42
	e	26 11
SH	iP	05 19 03.5
	epP	19 35
TUC	iP	05 20 51
	i	20 59
	ipP	21 22

Date and Station		Phase (GCT) h m s
Mar. 13, cont.		
BC	i(P)	05 26 11
HH	iP	05 25 40
SH	eP	05 25 44
TUC	eP	05 26 29
Mar. 13		
BC	e(P)	06 04 08
Mar. 13		
BC	iP	11 07 54
	e	08 07
HH	e(P)	11 08 03
PF	eP	11 07 52
	i	08 08
TUC	iP	11 07 39
	i	07 53
	i	08 20
	i	08 30
Mar. 13		
BC	e(P)	16 12 39
PF	eP	16 12 42
SH	eP	16 12 30
TUC	eP	16 12 41
Mar. 13		
BER	e(P')	20 22 27
	ePP	25 28
	ePPP	23 20
	e(PPS)	38 00
	e	39 25
	eSS	44 00
	ePSPS	45 00
	eSSS	49 05
	eL	21 03 00
BC	e(P)	20 18 12
	eP'	21 14
	ePKKP	32 04

Date and Station		Phase (GCT) h m s
Mar. 13, cont.		
BOZ	e(P')	20 21 34
	ePP	22 02
	eSKS	27 38
	eSKKS	28 38
	ePS	31 04
	ePPS	32 28
	eSS	37 10
	eSSS	41 14
	eL	47 32
BUT	eSKS	20 27 35
	eSKKS	28 30
	e(S)	29 05
	ePS	30 49
	eSS	36 46
	eSSS	40 51
	eL	57 50
CHI	ePP	20 23 24
	eSKKS	30 19
	eSKSP	33 50
	e	34 58
	eSS	40 28
	eL	58 12
COL	e	20 16 29
	i(S)	25 35
	e(SSS)	34 33
	eL	38 05
COLU	ePP	20 25 18
	eSKKS	31 22
	ePPS	36 42
	eSS	42 28
	eL	21 04 20
HONO	eP	20 14 16
	iS	23 57
	i	24 24
	ePPS	24 57
	e	31 58
	eL	34 08
HUAN	eP'	20 22 31
	ePP	26 24
	ePKS	27 20
	eSKKS	33 24
	eSKKKS	34 06

Date and Station		Phase (GCT) h m s
Mar. 13, cont.		
HUAN	e	20 36 12
	eSS	46 24
	eSSS	52 48
	eL	21 17 10
HH	eP	20 16 54
	eP'	20 15
	ePP	21 20
	eSKKS	28 16
	eS	28 54
	ePS	30 37
	i(PKKP)	31 43
LIN	ePP	20 23 35
	eSKKS	29 34
	ePS	32 59
	eSS	39 37
	eSSS	44 05
	eL	57 27
PHIL	ePP	20 24 42
	ePKS	25 18
	e(PPP)	27 21
	eSKS	29 15
	eSKKS	31 04
	e(PPS)	36 12
	eSS	41 56
	eSSS	46 25
	eL	59 00
PF	e(P)	20 17 16
	eP'	21 12
	ePS	31 22
	ePKKP	32 01
SLC	ePP	20 22 00
	eSKS	27 47
	eSKKS	28 50
	eS	29 33
	iPS	31 21
	ePPS	32 25
	eSS	37 15
	eSSS	41 49
	eL	48 23
SJ	eP'	20 23 13
	ePP	26 51
	eSKS	29 32

Date and Station		Phase (GCT) h m s
Mar. 13, Cont.		
SJ	e	20 34 40
	eSKSP	36 12
	e	41 45
	eSS	46 20
	eL	56 20
SH	eP	20 16 39
	iP'	20 57.5
	eSKS	27 13
	eSKKS	27 58
	ePS	30 00
SIT	eP	20 15 44
	iPP	19 30
	iSKS	26 14
	iS	26 48
	iPS	27 36
	i	28 02
	eSS	32 58
	i	34 13
	eL	46 10
TUC	e	20 18 41
	iP'	21 18
	ePP	22 20
	iPP	22 22
	i	22 39
	iSKKS	29 22
	iPKKP	31 52
	iPS	32 07
	eSS	38 29
	eL	50 08
UK	eSS	20 36 34
	eL	46 51
Mar. 13		
HH	iP	21 17 48
Mar. 14		
HH	eP	06 58 47
SH	eP	06 57 58
TUC	iP	06 58 13
	e	58 41
Mar. 14		
BER	e(P)	22 06 08
	ePP	07 55
	iS	13 00

Date and Station		Phase (GCT) h m s
Mar. 14, cont.		
BER	e(SS)	22 16 58
	eL	17 09
BC	iP	22 07 22
BOZ	e(P)	22 08 17
	eS	17 10
	eL	30 36
BUT	eP	22 08 05
	eS	17 28
	eL	36 19
CHI	eS	22 14 49
	e	16 21
	e(SS)	18 35
	eL	25 56
COL	e(SS)	22 29 40
	eL	46 33
COLU	eP	22 05 42
	eS	12 56
	eL	20 20
HUAN	eP	21 57 56
	iS	58 48
	iL	59 02
HH	iP	22 08 16
LIN	eS	22 15 09
	eScS	16 40
	eL	29 16
PHIL	iP	22 06 27
	e	07 14
	ePP	08 36
	eS	14 15
	iS	14 16
	e	15 09
	e	15 32
	eL	24 30
PF	iP	22 07 19
	iPKKP	28 32
SLC	eP	22 07 33
	ePP	10 03
	eS	16 29

Date and Station		Phase (GCT) h m s
Mar. 14, cont.		
SLC	eSS	22 21 15
	eL	32 20
SJ	eP	22 03 44
	ePP	05 07
	eS	09 18
	eL	11 46
SH	iP	22 08 02
SIT	eL	22 46 27
TUC	iP	22 06 48
	e	06 51
	i	07 08
	i	07 20
	i	07 27
	eS	15 00
	eL	23 00
Mar. 15		
SH	e(P)	00 08 57
TUC	eP	00 09 52
	e	10 03
Mar. 15		
BC	iP	02 28 06
HH	iP	02 27 30
	epP	28 50
PF	iP	02 28 09
	epP	29 32
SH	eP	02 27 25
	e	29 15
	i	30 49.5
TUC	iP	02 28 30
	epP	29 55
	e	32 02
Mar. 15		
BC	eP	11 35 56
	i	36 06
BOZ	eS	11 45 18
	eL	57 20

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
COL	e(S)	11 39 50
	eL	45 04
HUAN	eL	12 31 27
HH	eP	11 35 16
	e(pP)	35 27
PHIL	eL	12 16 05
PF	iP	11 35 59
	i	36 08
SLC	eS	11 45 35
	eL	12 08 33
SH	eP	11 35 12
	i	35 49
SIT	e(S)	11 41 30
	eL	51 42
TUC	eP	11 36 22
	i	36 33
	eL	12 04 05
Mar. 15		
BC	e(P)	12 23 22
Mar. 15		
BC	eP	14 43 58
	e	44 27
PF	iP	14 44 02
	i	44 41
TUC	e(P)	14 45 03
Mar. 15		
BC	iP	15 17 31
	e(pP)	18 14
PF	iP	15 17 35
	i(pP)	18 11
SH	iP	15 17 15
	i	18 12
TUC	iP	15 17 40
	e	18 13
	i(pP)	18 24

Date and Station		Phase (GCT) h m s
Mar. 15, cont.		
HH	iP	19 02 33
PF	i(P)	19 03 25
SH	eP	19 02 31
Mar. 15		
HH	eP	21 14 19
Mar. 16		
COL	e(S)	03 01 26
	e	04 20
	eL	17 16
HH	eP	02 54 01
SH	eP	02 53 58
SIT	eS	03 02 54
	eL	32 28
TUC	e(P')	02 59 20
	e	03 04 18
	eL	33 35
Mar. 16		
HH	e(P)	07 25 36
PF	e(P)	07 27 07
TUC	eP	07 27 27
Mar. 16		
HH	iP	08 32 43
	i	33 27
Mar. 16		
HH	eP	12 33 24
Mar. 16		
HH	e(P)	14 01 10
	i	06 56
	i	07 14
Mar. 16		
PF	eP	15 43 04
Mar. 16		
BER	e(PKS)	17 21 15
	eRS	29 12
	ePPS	30 20

Date and Station		Phase (GCT) h m s
Mar. 16, cont.		
BER	eSS	17 36 30
	eL	51 26
BC	eP	17 10 55
BOZ	eS	17 22 35
	e(PPS)	24 52
	eL	36 30
BUT	eS	17 22 39
	eL	43 33
CHI	eL	17 51 33
COL	eS	17 21 48
	eL	36 48
HONO	eL	17 50 16
HUAN	eSKKS	17 23 08
	e(PP)	26 34
	ePPS	26 38
	e	27 03
	eSS	31 24
	eL	46 52
HH	i(PP)	17 16 38
PF	eP	17 10 57
	ePP	14 29
RC	eSKS	17 22 28
	e	27 19
	eL	46 24
SLC	eSKS	17 21 50
	eRS	22 32
	eSS	28 34
	eL	36 26
SH	eP	17 10 39
SIT	eSKS	17 21 34
	eS	21 50
	eRS	22 52
	e	24 00
	eL	35 22
TUC	eP	17 11 01
	ePP	14 41
	e(RS)	23 05
	eL	35 03

Date and Station		Phase (GCT) h m s
Mar. 16, cont.		
UK	eL	17 37 31
Mar. 16		
BER	eL	19 01 10
Mar. 17		
PF	iP	00 09 57
Mar. 17		
HUAN	iP	01 01 57
	e	04 43
HH	iP	01 10 44
SH	iP	01 10 37.5
TUC	iP	01 09 29
	e	09 48
	e	10 22
Mar. 17		
HH	eP	05 27 41
Mar. 17		
HH	iP	10 24 20
PF	i(P)	10 24 40
SH	iP	10 24 04
Mar. 17		
HH	i(P)	17 34 30
Mar. 17		
BER	eSKS	20 07 40
	ePS	12 30
	eSS	19 10
	eL	41 30
BC	eP	19 54 25
	e(PP)	58 48
BOZ	eS	20 05 06
	eL	18 32
BUT	eS	20 04 41
	eSS	10 31
	eL	21 43
CHI	eL	20 33 16

Date and Station		Phase (GCT) h m s
Mar. 17, cont.		
COL	eS	20 01 06
	eSS	05 25
	eL	10 38
HONO	eL	20 04 04
HUAN	eL	20 52 20
HH	iP	19 54 10
	eS	20 04 33
PF	eP	19 54 27
	ePP	58 06
RC	eP	19 54 52
	eS	20 05 42
	eSS	12 06
	eL	39 16
SLC	eS	20 05 09
	eSS	10 47
	e(SSS)	16 03
	eL	18 05
SH	eP	19 53 48
TUC	eP	19 54 45
	e	55 18
	eSKS	20 05 21
	eS	05 48
	ePS	06 55
	eL	21 10
Mar. 18		
BC	eP	15 55 56
HH	eP	15 54 19
	e(S)	56 32
PF	eP	15 55 56
	i	57 00
RC	eP	15 56 17
	eL	16 02 42
SH	iP	15 54 17.5
TUC	iP	15 56 50
	i	57 07
	i	57 38
	eL	16 05 15

Date and Station		Phase (GCT) h m s
Mar. 18, cont.		
BC	e(P)	21 10 40
	e	12 01
HH	iP	21 13 21
PF	iP	21 10 33
	i	11 37
TUC	eP	21 10 02
	i	10 24
	e(S)	11 05
	iL	11 15
Mar. 18		
BC	iP	23 15 11
	epP	17 12
HH	iP	23 15 44
	iPP	19 20
PF	iP	23 15 14
	ipP	17 15
SH	iP	23 14 58.5
	ipP	17 25.5
TUC	iP	23 15 17
	epP	17 19
Mar. 19		
PF	e(P)	07 02 27
SH	e(P)	07 02 14
TUC	eP	07 02 28
Mar. 19		
HH	iP	13 36 19
	i	36 27
	i	36 33
Mar. 20		
HH	eP	02 24 54
Mar. 20		
HH	eP	07 02 49
Mar. 20		
HH	eP	11 09 15

Date and Station		Phase (GCT) h m s
Mar. 20, cont.		
BH	e(P)	17 43 00
	e	43 51
BC	eP	17 49 43
HH	iP	17 50 44
PF	iP	17 49 40
SH	e(P)	17 50 38
TUC	iP	17 49 03
	e	49 22
Mar. 20		
HH	iP	23 25 57
	i	26 11
SH	e(P)	23 26 32
TUC	iP	23 28 09
	i	28 21
	i	28 31
Mar. 21		
TUC	i(P)	02 32 08
Mar. 21		
BC	iP	02 34 14
PF	iP	02 34 17
SH	eP	02 34 03
TUC	iP	02 34 19
Mar. 21		
HH	i(P)	04 22 22
Mar. 21		
BC	iP	19 48 17
HH	eP	19 48 53
	e	49 17
PF	iP	19 48 20
SH	iP	19 48 02.5
TUC	iP	19 48 22

Date and Station		Phase (GCT) h m s
Mar. 21, cont.		
BER	eP	21 48 06
	ePP	52 25
	ePPP	54 04
	e(SKS)	59 00
	eS	59 21
	e	22 03 04
	eSSS	09 47
	eL	18 24
BC	eP'	21 53 30
	ePP	54 50
	ePKKP	22 03 46
BUT	eL	22 45 14
CHI	ePS	22 03 29
	eL	30 21
COL	eL	22 44 10
COLU	eS	22 00 25
	eSS	08 10
	eL	30 47
HONO	eL	22 40 24
HUAN	eP	21 44 40
	iPcP	45 34
	eS	52 46
	i	53 12
	e(ScS)	54 10
	e(SS)	57 20
	eL	59 16
HH	eP'	21 53 42
	iP'	53 43.5
	i	53 53
	i	54 01
	iPP	55 46
LIN	eL	22 34 07
PHIL	i(PP)	21 53 05
	eL	22 32 08
PF	eP'	21 53 26
	ePP	54 45
	ePKKP	22 03 47
RC	ePP	21 54 (43)
	iPP	54 (48)

Date and Station		Phase (GCT) h m s
Mar. 21, cont.		
RC	eSS	22 11 (13)
	eL	41 (00)
SLC	e(S)	22 02 35
	eSS	11 34
	eL	38 36
SJ	eP	21 46 58
	e(PP)	50 01
	eS	57 07
	eSS	22 02 33
	eL	08 32
SH	iP'	21 53 39.5
	i	53 57.5
TUC	eP'	21 53 17
	iP'	53 20
	ePP	54 09
	ePPP	56 25
	ePS	22 03 43
	ePKKP	03 57
	eSS	10 34
	eL	28 51
Mar. 22		
BH	eP	00 11 25
BER	e	00 16 31
	eL	21 15
BC	eP	00 16 32
CHI	eS	00 23 40
	eScS	25 34
	eL	32 23
COLU	eS	00 21 47
	eScS	24 34
	e(SS)	25 52
	eL	26 27
HUAN	iP	00 07 02
	i	07 20
	iS	07 52
	iL	08 24
HH	eP	00 17 26
LIN	eS	00 24 05
	eScS	25 42

Date and Station		Phase (GCT) h m s
Mar. 22, cont.		
PHIL	e(P)	00 16 10
	eS	23 07
PF	iP	00 16 29
	ipP	16 55
RC	eP	00 16 (33)
	e(PP)	19 (25)
	eS	25 (11)
	eScS	26 (07)
	eSS	29 (26)
	eL	33 (00)
SLC	eS	00 25 25
	eScS	26 31
	eSS	29 46
	eL	37 21
SJ	e(P)	00 12 50
	e	13 14
	eS	18 05
	eL	20 23
SH	eP	00 17 16
TUC	iP	00 15 58
	ipP	16 22
	isP	16 48
	e	17 41
	eL	30 48
Mar. 22		
HH	eP	03 09 45
Mar. 22		
BC	e(P)	04 57 48
Mar. 22		
BC	eP	09 31 07
HH	iP	09 31 22
PF	eP	09 31 05
SH	eP	09 31 18
TUC	eP	09 30 55
Mar. 22		
HH	e(P)	15 20 11

Date and Station		Phase (GCT) h m s
Mar. 22, cont.		
BC	eP	16 51 39
PF	eP	16 51 19
TUC	e(P)	16 51 18
Mar. 22		
BC	eP	19 31 07
HH	iP	19 29 37
	i	29 44
PF	eP	19 31 07
SH	eP	19 30 28
TUC	eP	19 31 35
	e	31 42
Mar. 22		
HH	iP	19 39 11
PF	iP	19 39 52
Mar. 22		
PF	eP	21 14 20
Mar. 22		
BH	eP	21 36 15
	eL	38 22
BER	eP	21 40 32
	e(PP)	41 44
	eS	45 21
	eL	46 35
BC	iP	21 41 27
	i(pP)	41 37
	i	43 27
BOZ	eL	22 12 18
BUR	e(S)	21 47 14
	eL	49 21
BUT	eL	21 54 07
CHI	eP	21 40 37
	ePP	41 44
	eS	45 48
	eL	47 47

Date and Station		Phase (GCT) h m s
Mar. 22, cont.		
COL	eL	22 07 50
COLU	eP	21 39 38
	e(S)	44 14
	eL	45 44
HUAN	eP	21 40 02
	eS	44 29
	eL	46 02
HH	iP	21 42 32
PHIL	eP	21 40 40
	e(S)	46 07
	iL	47 17
PF	iP	21 41 23
	i(pP)	41 33
	ePcP	43 52
RC	iP	21 41 (24)
	i(PP)	43 (15)
	e	46 (25)
	eS	47 (08)
	eL	51 (03)
SLC	e(P)	21 42 30
	ePP	43 04
	eL	50 30
SJ	e(P)	21 39 12
	eS	43 10
	eL	44 34
SH	eP	21 42 27
	i(pP)	42 40
	iPP	44 17.5
	eS	48 36
SIT	eL	22 10 48
TUC	eP	21 40 43
	e	40 54
	i	41 16
	ePP	41 44
	e(S)	45 24
	eL	47 06
Mar. 22		
BH	eP	22 29 56
	iS	30 37

Date and Station		Phase (GCT) h m s
Mar. 22, cont.		
FF	e(P)	22 36 49
Mar. 22		
HH	iP	23 21 19
SH	iP	23 21 34
Mar. 22		
BH	eP	23 43 04
BER	eP	23 47 18
	e(S)	52 40
	eL	53 48
BC	iP	23 48 14
	iPcP	50 44
BUR	e(S)	23 54 25
	eL	00 00 10
CHI	eP	23 47 26
	ePP	48 29
	e(S)	52 41
	eL	53 47
COLU	e(P)	23 46 23
	e(S)	51 00
	eL	52 30
HUAN	eP	23 46 50
	eS	51 17
	eL	52 44
HH	iP	23 49 18.5
	iPP	51 06
PF	iP	23 48 15
	i	48 45
	iPcP	50 42
RC	eP	23 48 16
	ePP	49 34
	eL	00 01 00
SLC	e(PP)	23 49 55
	eL	00 01 27
SJ	e(P)	23 46 00
	eS	49 53
	eL	53 58

Date and Station		Phase (GCT) h m s
Mar. 22, cont.		
SH	eP	23 49 14
	iPP	51 05
TUC	eP	23 47 30
	e(S)	53 46
	eL	54 40
Mar. 23		
FF	iP	04 57 51
	i(pP)	59 59
	e	05 16 01
SH	iP	04 57 36.5
TUC	iP	04 57 53
	e(pP)	05 00 02
	e	16 45
Mar. 23		
HH	i(P)	05 12 05
Mar. 23		
HH	i(P)	11 08 08
Mar. 23		
PF	eP	14 16 41
Mar. 23		
BC	i(P)	16 34 45
PF	iP	16 34 46
Mar. 23		
BER	eP	18 24 18
	eS	34 56
	e(sS)	36 32
	eSS	41 00
	eL	47 22
BC	iP	18 21 45
	ipP	22 29
BOZ	e	18 22 06
	e(S)	29 08
	e(sS)	30 46
COL	eP	18 17 48
	ePP	19 08
	iS	22 52
	ePcS	24 06
	eL	25 22

Date and Station		Phase (GCT) h m s
Mar. 23, cont.		
HH	iP	18 20 50
	eS	28 21
	eScS	30 19
	e(P'P')	50 32
	iP'P'	50 54
LIN	iS	18 31 15
	e	35 14
	eL	41 43
LOG	eP	18 21 26
	ipP	22 13
	e(sP)	22 51
	e(PP)	23 37
	eS	29 28
	iS	29 35
	i(sS)	30 31
	e(SS)	34 35
	eL	42 59
PHIL	eP	18 23 15
	iS	33 05
	esS	34 28
PF	iP	18 21 47
	ipP	22 32
	eS	30 04
	eP'P'	50 35
RC	iP	18 21 49
	epP	22 29
	e	23 34
	iS	30 12
	isS	31 16
	eSS	34 21
	eL	38 02
SLC	eP	18 21 34
	iS	29 47
	esS	31 01
	eL	36 38
SJ	eS	18 36 34
	eSS	43 47
	esSS	45 10
SH	eP	18 20 52
	epP	21 36

Date and Station		Phase (GCT) h m s
Mar. 23, cont.		
TUC	eP	18 22 16
	ePcP	22 34
	ipP	22 59
	e(PP)	25 12
	epPP	25 32
	e(S)	31 06
	eScS	31 44
	e(sS)	32 30
	iP'P'	50 23
	ipP'P'	51 16
Mar. 23		
HUAN	e(P)	21 10 52
Mar. 23		
BER	eL	21 24 30
HH	eP	21 28 01
PF	iP	21 27 40
SH	eP	21 28 30
TUC	eP	21 27 12
	e	27 24
Mar. 23		
PF	iP	21 37 21
Mar. 24		
BC	e(P)	00 25 40
Mar. 24		
TUC	iP	00 44 48
Mar. 24		
TUC	eP	02 37 45
Mar. 24		
BH	eP	03 26 07
BER	eS	03 36 12
	eSS	39 31
	eL	43 28
BC	eP	03 31 37
HUAN	iP	03 21 48

Date and Station		Phase (GCT) h m s
Mar. 24, cont.		
HH	eP	03 32 30
PF	iP	03 31 33
RC	iP	03 31 38
	e(PP)	33 42
SJ	e(P)	03 28 22
	iS	32 34
	eL	39 05
SH	iP	03 32 23
TUC	iP	03 31 00
	ePP	33 07
Mar. 24		
BC	e(P)	03 36 17
HUAN	i(P)	03 26 36
HH	iP	03 37 14
PF	iP	03 36 17
SH	eP	03 37 06
TUC	iP	03 35 44
Mar. 24		
HH	e(P)	04 00 42
	e	05 27
Mar. 24		
BER	eP'	05 39 40
	ePP	42 49
	ePKS	43 22
	eSKKKS	50 40
	eSKSP	53 26
	e(PPPS)	58 33
	eSS	06 02 33
	eSSS	08 16
	eL	21 35
BC	eP'	05 38 48
	iP'	38 54
	ePP	41 17
	iPKS	42 18

Date and Station		Phase (GCT) h m s
Mar. 24, cont.		
BOZ	ePKS	05 42 12
	eL	06 10 40
BUR	ePP	05 42 15
	e(PPS)	54 14
	eL	06 21 25
BUT	eL	06 31 23
CHI	eP'	05 39 02
	ePP	42 13
	ePKS	42 46
	eSKS	46 06
	e(SKKS)	49 06
	e(PPS)	54 30
	eL	06 20 14
COL	ePP	05 37 50
	eSKKS	44 44
	e(PS)	47 03
	e	48 14
	eSS	52 42
	eL	06 01 13
COLU	eP'	05 39 32
	ePP	43 12
	e(SKS)	47 50
	eSKSP	52 52
	ePPS	56 22
	eSS	06 02 32
	eL	21 42
HUAN	eP'	05 39 39
	ePP	44 14
	eSKKS	50 50
	eSKKKS	51 54
	eSKSP	54 23
	ePPS	57 52
	eSS	06 04 20
	eSSS	10 59
	eL	25 04
HH	iP	05 38 38
	iPKKP	47 27
LIN	ePKS	05 42 42
	eL	06 32 04

Date and Station		Phase (GCT) h m s
Mar. 24, cont.		
LOG	eP'	05 38 46
	ePP	41 06
	iPKS	42 11
	i	42 45
	eSKKS	48 07
	eSKSP	51 07
	eL	06 22 59
PHIL	iP'	05 39 17
	i	39 47
	i	40 43
	ePP	42 31
	e(SS)	06 02 40
	eL	35 17
PF	iP'	05 38 52
	i	39 57
	ePP	41 03
	ePKS	42 17
RC	iP'	05 39 (02)
	iPKS	42 (21)
	eSKS	46 (13)
	eSKKKS	48 (52)
	eSKSP	51 (35)
	eSSS	06 04 (21)
	eL	25 (28)
SLC	eP'	05 38 53
	ePP	41 10
	iPKS	42 18
	eSKS	46 24
	eSKSP	51 23
	ePPS	53 34
	eSSS	06 04 02
	eL	16 24
SJ	iP'	05 39 42
	e	40 44
	iPP	44 25
	e(PKS)	45 57
	e(PPP)	48 18
	eSKKS	50 56
	e	51 38
	eSKSP	54 53
	e(PPS)	58 00
	eSS	06 04 22
	eL	15 45

Date and Station		Phase (GCT) h m s
Mar. 24, cont.		
SH	eP'	05 38 35
	ePP	40 21
SIT	ePP	05 38 50
	eSKS	44 50
	ePS	48 10
	eSS	54 00
	eL	06 07 38
TUC	eP'	05 38 48
	iP'	39 04
	iPP	41 45
	ePKS	42 32
	ePPS	54 16
	e(PPPS)	54 56
	e	59 15
	e(SS)	06 01 26
	eL	29 34
Mar. 24		
HH	iP	05 50 58
Mar. 24		
HH	eP	08 04 22
	iP	05 54
PF	iP	08 05 33
SH	eP	08 05 33
TUC	iP	08 05 44
Mar. 24		
PF	iP	09 55 22
SH	eP	09 55 07
TUC	iP	09 55 23
Mar. 24		
PF	eP	10 29 13
TUC	eP	10 29 25
Mar. 24		
HH	e(P)	12 50 51
SH	eP	12 47 20
	eS	47 41

Date and Station		Phase (GCT) h m s
Mar. 25		
HH	iP	02 44 44
Mar. 25		
BC	i(P)	04 47 19
CHI	eL	05 29 14
HUAN	eL	05 21 44
HH	iP	04 48 57
SH	eP	04 48 03
TUC	eP	04 48 22
	eL	05 16 11
Mar. 25		
HH	eP	08 15 06
Mar. 25		
HH	iP	11 06 12
	i	06 31
	i	06 33.5
	i	06 39.5
	i	07 08
Mar. 25		
HUAN	iP	11 42 13
	i(S)	42 36
	iL	42 56
HH	iP	11 52 58.5
Mar. 25		
HH	i(P)	19 58 46.5
Mar. 26		
BC	eP	00 45 48
HUAN	e(P')	00 52 20
	eL	58 24
PF	iP	00 45 52
SH	eP	00 45 28
TUC	iP	00 45 55

Date and Station		Phase (GCT) h m s
Mar. 26, cont.		
PF	e(P)	00 53 44
Mar. 26		
BC	iP	01 00 17
HH	i(P)	01 00 59.5
PF	iP	01 00 15
	e	04 22
SH	eP	01 00 54
TUC	iP	00 59 48
Mar. 26		
HH	i(P)	01 10 55
Mar. 26		
HH	iP	03 14 28
PF	e(P)	03 15 19
Mar. 26		
PF	e(P)	04 42 33
SH	eP	04 40 37
Mar. 26		
PF	e(P)	05 16 21
Mar. 26		
PF	i(P)	06 06 10
Mar. 26		
HH	eP'	13 41 52
TUC	e(P')	13 42 18
Mar. 26		
HH	eP	14 18 04
Mar. 26		
HH	i(P)	14 38 08
	i	40 57
PF	iP	14 39 42
Mar. 26		
PF	e(P)	18 11 22

Date and Station		Phase (GCT) h m s
Mar. 26, cont.		
BC	eP	21 02 10
HH	iP	21 01 11.5
PF	iP	21 02 13
SH	eP	21 01 03
TUC	iP	21 02 52
Mar. 26		
BC	iP	22 27 03
HH	iP	22 27 40.5
PF	iP	22 27 06
SH	eP	22 26 48
TUC	iP	22 27 09
Mar. 26		
HH	e(P)	23 31 21
Mar. 27		
HUAN	iP	01 48 46
HH	iP	01 59 21
PF	eP	01 58 23
	e	59 10
TUC	iP	01 57 51
Mar. 27		
BC	eP	03 50 47
HUAN	iP	03 40 58
HH	eP	03 51 40
PF	eP	03 50 42
SH	eP	03 51 31
TUC	eP	03 50 10
	e	51 28

Date and Station		Phase (GCT) h m s
Mar. 27, cont.		
HH	i(P)	05 21 11
Mar. 27		
HH	i(P)	12 26 05
Mar. 27		
HH	i(P)	13 15 22
Mar. 27		
HH	i(P)	21 12 17
SH	iP	21 10 05.5
	iS	10 27.3
TUC	e(P)	21 13 02
Mar. 28		
BC	eP	01 42 29
HUAN	eP	01 33 56
	e(S)	35 08
	e	36 34
	eL	37 02
HH	eP	01 43 11
PF	eP	01 42 26
SH	eP	01 43 09
TUC	eP	01 41 57
Mar. 28		
HH	eP	06 14 35
SH	eP	06 14 34
Mar. 28		
BC	eP	18 27 44
	i	27 50
	i(S)	28 51
HH	e(P)	18 31 31
PF	eP	18 27 39
	i(S)	28 47
SH	eP	18 26 58
	eS	27 36

Date and Station		Phase (GCT) h m s
Mar. 28, cont.		
TUC	e(P)	18 29 22
	e(S)	31 33
	eL	31 52
Mar. 28		
SH	eP	18 39 03
	eS	39 36
Mar. 28		
BC	eP	22 39 24
	i(S)	39 49
HH	e(P)	22 41 09
	i	41 15
	e(S)	44 55
PF	iP	22 39 34
SLC	eL	22 42 33
SH	eP	22 39 06
	iS	39 58
TUC	eP	22 40 31
	e(S)	42 48
	eL	43 18
Mar. 28		
BC	i(P)	23 51 05
PF	eP	23 49 30
SH	eP	23 48 59
	i	49 26
TUC	e(P)	23 50 28
Mar. 29		
HH	iP	02 45 51
	i	45 58
Mar. 29		
HH	iP	03 16 28.5
Mar. 29		
SH	i(P)	08 46 18
	e	46 54
TUC	e(P)	08 47 19
	i	47 24

Date and Station		Phase (GCT) h m s
Mar. 29, cont.		
BER	eS	10 43 16
	eL	59 08
BOZ	eL	10 57 08
BUT	eL	11 19 32
HUAN	eL	11 11 50
HH	iP	10 35 34
PF	eP	10 36 27
SLC	eL	11 16 28
TUC	eL	11 18 20
Mar. 29		
BER	ePKS	12 13 14
	e(SKKS)	19 30
	eSS	30 12
BC	iP	12 03 49
	i(pP)	04 15
BOZ	ePP	12 08 32
	e(S)	16 22
	ePS	17 12
	eL	32 16
BUT	e(S)	12 15 30
	ePS	17 30
	eSS	22 35
	eL	40 42
COL	eSKS	12 14 14
	eS	14 50
	ePS	16 14
	eL	30 03
HONO	eS	12 07 48
	eL	12 52
HUAN	ePP	12 09 26
	eSKS	15 30
	eSKKS	16 17
	eS	17 01
	ePS	18 35
	ePPS	19 54
	eSS	24 20
	eL	35 24

Date and Station		Phase (GCT) h m s
Mar. 29, cont.		
HH	eP	12 04 13
	i(PKKP)	20 58
	iP'P'	29 14
PHIL	e(S)	12 19 46
	eSS	28 15
	e(SSS)	31 36
PF	eP	12 03 50
	i(pP)	04 17
	eP'P'	29 19
SLC	e(PP)	12 07 36
	eS	15 14
	iPS	16 04
	ePPS	17 14
	e(SS)	22 16
	eL	30 44
SH	iP	12 03 33.5
	i(pP)	04 04
	ePP	07 01
	eS	14 11
	e	14 54
	eP'P'	29 27
SIT	e(S)	12 15 20
	eL	32 08
TUC	iP	12 03 54
	i	04 20
	i(pP)	04 24
	ePP	07 34
	eSKS	14 43
	eS	14 56
	ePS	15 47
	ePPS	16 40
	ePKKP	21 12
	e(SS)	21 47
	e	23 21
	eL	29 15
	eP'P'	29 19
Mar. 30		
HH	e(P)	19 13 45
	i	14 17
Mar. 31		
HH	iP	03 22 25

Date and Station		Phase (GCT)		
		h	m	s
Mar. 31, cont.				
HH	i(P)	13	33	42
PF	eP	13	33	43
Mar. 31				
HH	iP	14	24	00
Mar. 31				
BC	iP	17	53	40
PF	iP	17	53	43
SH	eP	17	53	32
TUC	iP	17	53	42
	i		54	10
Mar. 31				
BC	e(P)	18	58	37
HUAN	eP	18	51	46
	e		53	14
	eS		53	30
	eL		53	42
HH	iP	18	59	44
PF	e(P)	18	58	33
TUC	iP	18	57	59

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
BOZ		HUAN, cont.		HUAN, cont.		HUAN, cont.		HUAN, cont.	
Feb.		Jan., cont.		Jan., cont.		Jan., cont.		Jan., cont.	
11	17.6	5	08.1	10	13.2	16	10.1	26	12.3
			10.8		14.6		10.5		16.7
COL			14.0		15.3		10.6		19.8
Jan.		6	11.8		16.0		16.7	27	11.2
4	12.7		12.7		17.3		23.2		11.7
		7	01.2		22.0	17	02.5		14.5
Feb.			05.9	11	10.2		03.7		20.4
9	17.4		07.7		12.8		09.5		23.7
11	17.4		10.3		13.5		09.7	28	01.9
17	04.3		10.8	12	01.1		09.9		04.8
	05.9		10.8		02.8		10.6		05.1
26	18.2		12.5		03.3		10.8		06.5
			16.0		04.8		17.3		09.8
Mar.			16.7		06.5		17.5		12.9
20	23.4		17.2		07.1	18	01.4	29	03.8
			17.5		07.4		02.7		04.4
HONO		8	01.0		08.5		03.3		04.7
Jan.			03.2		11.4		05.9		05.0
18	05.5		08.0		12.5		07.0		05.0
			15.0		18.2		18.0		05.1
HUAN			16.7		18.5		18.1		05.7
Jan.			17.1	13	02.0	20	05.6		07.4
1	02.1		17.3		02.5		05.6		08.2
	02.4		17.9		02.9		12.0		08.5
	02.7		18.7		03.5		13.3		10.8
	10.9		18.8		03.6		16.9		14.8
	16.2		19.9		06.7		22.9		15.3
2	03.2		22.8		07.1	21	05.9		20.5
	08.6	9	00.9		13.9		04.7	30	03.1
	14.5		04.2		18.4		09.4		03.8
	14.7		04.5		20.5		11.0		08.5
	18.6		04.7	14	00.5		18.3		22.1
	23.9		05.4		04.7		21.3	31	00.1
3	05.8		05.7		07.6	22	04.4		00.9
	07.7		06.5		09.2		11.1		05.7
	07.5		09.3		12.0		11.2		14.5
	18.1		11.3		17.0		17.7		21.0
	19.8		12.8		17.3		21.5		22.0
	20.3		13.7		17.5	23	06.1		22.1
	23.0		15.7		21.0		07.5		
4	01.7		16.4		21.9		12.7	Feb.	
	02.1		16.4	15	04.6		13.6	1	16.3
	03.1		16.5		05.5	24	16.5		16.9
	08.7		17.1		08.2		21.7	2	09.7
	10.1		17.1		22.8	25	05.2		17.1
	13.8	10	00.4		22.9		09.8		17.5
	23.4		04.0		23.0		21.3		20.3
5	01.3		07.0		23.7		21.4	3	07.3
	04.5		07.3	16	02.2	26	00.1		08.7
	05.8		09.2		08.2		02.2	4	00.5

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
HUAN, cont.		HUAN, cont.		HUAN, cont.		HUAN, cont.		HUAN, cont.	
Feb., cont.		Feb., cont.		Feb. cont.		Mar., cont.		Mar., cont.	
4	00.7	15	13.1	25	10.8	4	01.7	5	14.9
	01.0		16.7		16.7		02.3		15.9
	02.3	16	06.8		17.6		03.3		17.6
	14.0		16.3	26	01.6		02.5		17.7
	14.2		19.3		03.5		02.6		18.6
	22.1		20.1		13.3		02.9		21.9
5	00.1		21.8		13.9		02.9		23.3
	11.2		22.8		15.7		03.0	6	02.2
	22.7		23.8		17.9		03.1		02.6
6	24.0	17	01.4		22.8		03.2		03.7
7	05.2		02.9	27	03.1		03.6		05.9
	05.4		02.5		07.1		04.1		09.6
	11.2		07.6		12.2		04.2		12.4
	13.2		09.3		12.4		04.3		15.5
	16.1		09.4	28	02.3		04.3		17.0
	17.4		12.3		04.0		04.5		17.5
	19.1		12.7		06.8		04.6		22.4
8	08.8		19.8		08.0		04.8	7	02.5
	12.0		21.1		08.1		05.3		04.9
	13.2		21.9		15.1		05.7		05.0
	20.9	18	01.5		21.0		06.1		09.8
9	01.7		01.5		22.6		06.9		11.4
	03.1		20.4	29	01.5		07.1		13.0
	03.5	19	02.1		02.4		07.3		13.1
	04.3		03.0		04.4		07.5		17.9
	05.4		04.0		15.0		09.4		18.3
	23.6		05.0		15.1		09.8		20.1
10	05.0		23.6		15.2		10.1		20.3
	07.1	20	07.3		15.5		10.5		23.5
	17.3		08.9		22.8		10.7	8	00.2
11	02.6		09.9				10.8		00.6
	13.6		10.7	Mar.			12.1		01.1
12	01.3		12.0	1	01.7		14.5		01.4
	01.5		15.5		01.7		15.5		01.6
	09.0		19.2		14.1		17.4		03.3
	10.2	21	08.7		14.3		17.6		03.4
	12.4		09.5		20.8		18.5		07.8
	16.3		13.7	2	08.8		20.3		08.4
	17.8		23.9		09.3		23.5		10.0
13	07.6	22	07.8		15.8		23.7		11.6
	17.3		08.8		17.5		23.8		16.3
	18.0		09.3		16.6		23.9		19.4
	21.3		17.4		20.3	5	05.7		23.9
14	05.2		21.6		22.7		06.0	9	00.1
	10.2	23	08.2	3	01.1		07.2		03.1
	16.9		12.0		01.8		08.6		05.7
	20.2		13.4		03.8		11.0		11.2
15	03.4		17.0		06.7		11.9		16.3
	04.4	24	13.9		08.4		13.0		21.9
	05.3		14.4		16.2		13.2	10	01.5
	07.0	25	02.9		23.1		13.3		05.4

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
HUAN, cont.		HUAN, cont.		HUAN, cont.		HUAN, cont.		TUC, cont.	
Mar., cont.		Mar., cont.		Mar., cont.		Mar., cont.		Feb.	
10	17.8	17	02.3	24	09.1	30	02.3	2	12.1
11	02.7		04.9		09.8		03.9		14.9
	02.9		07.5		10.6		04.0	3	06.8
	06.0		09.0		11.9		04.6	4	12.2
	10.0		14.8		12.6		04.7	5	07.1
	11.5		19.3		12.7	31	09.0		13.3
	12.4	18	13.7		15.0		10.7		21.7
	20.0		20.3		15.2		11.8	6	02.9
	23.9		21.4		15.6				13.0
12	01.9		23.8		18.9	MONT		7	16.8
	05.1	19	00.8		19.4	Jan.		10	04.3
	05.6		02.8		20.2	4	12.5		22.4
	14.8		04.3		21.8	14	02.8	11	03.2
	15.0		06.0		22.8	17	12.8	12	10.6
	18.6		06.5	25	02.2		14.1	13	04.0
	20.6		07.9		02.4	19	02.5		17.7
	22.2	21	05.5		02.7	22	20.2	14	01.8
13	01.4		08.4		04.7				02.3
	02.1		04.6		09.1	RC			17.2
	06.7		12.2		09.2	Jan.		17	15.2
	13.1		13.3		09.8	29	13.6		15.5
	13.8		14.5		14.7			19	17.2
	14.5		18.9		19.7	SJ		21	08.3
	22.3	22	06.3		22.5	Feb.		22	06.7
	22.6		06.7		23.0	7	20.6	23	08.3
	23.3		07.0	26	00.2		21.9		22.6
	23.5		19.5		02.5	24	00.7	24	04.0
14	00.0	23	02.1		02.7	26	19.4		08.3
	05.2		08.3		05.7	29	10.3		09.0
	09.5		13.4		07.5			27	06.4
	14.5		13.9		11.0	Mar.		28	17.4
	20.6		16.6		13.6	9	09.2	30	08.2
	21.8		21.3		17.4	11	17.3		
15	00.2		21.4		18.7	15	06.0	Mar.	
	00.3	24	00.0	27	01.4	21	04.3	1	18.8
	01.1		00.3		02.5	23	21.3	2	18.2
	06.2		01.9		02.5	24	01.2		18.8
	09.6		04.1		07.4	27	04.6		21.6
	09.8		04.2		14.8			3	18.4
	10.3		04.4		15.7	TUC		4	09.0
	11.0		04.5	28	01.3	Jan.			09.1
	14.4		04.5		02.1	1	15.8		20.4
	15.8		04.8		04.0	5	13.4	5	20.9
	16.4		05.1		05.9	7	10.9		21.4
	19.9		05.2		10.2	9	15.2	9	22.1
16	03.1		05.9		12.2	11	21.3		22.9
	09.7		06.4		13.3	12	01.3	10	22.1
	15.8		06.5	29	07.1	14	05.0	12	18.8
	16.3		07.5		09.9	15	10.3		23.1
	19.0		08.5		19.5	31	07.6	13	22.4
	23.6								

Local and Minor Earthquakes

day	hour	day	hour	day	hour	day	hour	day	hour
TUC, cont.									
Mar., cont.									
14	18.4								
15	15.4								
	22.3								
17	00.1								
	17.0								
	22.8								
18	02.7								
	15.1								
	23.4								
19	17.6								
	18.7								
	20.8								
22	19.4								
23	17.8								
24	17.5								
25	16.0								
	19.0								
	22.3								
26	15.9								
30	16.4								
	20.2								
UK									
Jan.									
10	00.8								
26	21.0								