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U. S. COAST & GEODETIC SURVEY
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SEISMOLOGICAL BULLETIN

February, 1954

MSI - 158

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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
*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
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Logan, Utah (LOG)
Utah State Agricultural College
*Montezuma, Chile (MONT)
Smithsonian Institution
Nelson, Nev. (NEL)
**New Kensington, Pa. (NK)
Private station, Fred Keller, Sr.
**Philadelphia, Pa. (PHIL)
The Franklin Institute
**Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory
Washington, D. C. (WASH)

*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 magnitude determinations are by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the bulletin.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicate 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.

All seismograms are on file in the U. S. Coast and Geodetic Survey, except those from Balboa Heights, Burlington, Logan, and New Kensington which may be obtained on loan by addressing the Seismograph Station Director: - Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone; University of Vermont, Burlington, Vermont; Utah State Agricultural College, Logan, Utah; 508 Pershing Drive, New Kensington, Pennsylvania.

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Feb.	h m s	° '		° '		
1	00 32 00**					Fiji Islands region. h about 300 km.
1	01 06 48*	24	N.	143	E.	Volcano Islands. Mag. 7-1/4.
1	01 20 07*	24	N.	143	E.	Volcano Islands aftershock.
1	02 23 13*	24	N.	143	E.	Do
1	03 33 19*	43	N.	114	W.	Southern Idaho.
1	04 03 11*	24	N.	143	E.	Volcano Islands aftershock.
1	04 23 54	32-1/4N.		115-1/4W.		Lower California. Felt. Mag. 5-1/4.
1	04 31 59.5	32-1/4N.		115-1/4W.		Lower California. Felt. Mag. 5-3/4 - 6.
1	05 46 41*	24	N.	143	E.	Volcano Islands aftershock.
1	06 20 57**					Do
1	08 15 40**					Kermadec Islands region.
1	13 05 27.5	32-1/4N.		115-1/4W.		Lower California. Felt.
1	14 00 44**					Greenland foreshock.
1	15 46 00**					Do
2	04 42 12*	6½	S.	81	W.	Near coast of Peru.
2	17 45 45*	83	N.	7	E.	Off northeast coast of Greenland.
3	08 04 06**					Off east coast of Honshu, Japan.
3	15 56 51*	36½	N.	70	E.	Hindu Kush.
3	18 23 53*	45½	N.	148½	E.	Kurile Islands. h about 100 km.
4	03 43 21**					Off east coast of Honshu, Japan.
5	09 19 42*	4½	S.	153	E.	Off coast of New Britain. Mag. 6-3/4 - 7.
5	13 08 53*	7½	N.	71½	W.	Colombia-Venezuela border. h about 100 km.
5	15 17 59*	17½	N.	92½	W.	Chiapas, Mexico. Extensive property damage at Chilon, Petalcingo, Tila, and Wajalon. h about 100 km. Mag. 6-1/4.
7	06 15 21*	15	S.	167½	E.	New Hebrides Islands. h about 100 km. Mag. about 6.
7	21 38 10**					About 300 miles south of Kermadec Islands.
8	00 28 20**					Central Chile-Argentina border region.
8	14 19 09*	22½	S.	68	W.	Northern Chile-Bolivia border. Minor damage at Calama, Chile. h about 150 km.
8	18 43 10*	29½	N.	141	E.	Off southeast coast of Honshu, Japan.
9	04 03 58*	43	N.	144	E.	Near east coast of Hokkaido, Japan.
9	08 56 25*	19	N.	64	W.	Leeward Islands. h about 60 km.
9	17 39 40*	53	N.	166½	W.	Fox Islands, Aleutian Islands. h about 100 km.
9	23 27 36**					North Atlantic Ocean about 400 miles southwest of Azores.
10	11 33 43*	14	N.	143	E.	Marianas Islands.
10	23 58 38*	35	N.	119	W.	Near Wheeler Ridge, Calif. Felt at Bakersfield and Santa Barbara. Mag. 4.3

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Feb.	h m s	° '		° '		
11	00 30 16*	39½	N.	101	E.	Kansu province, China. Felt in Lanchow district. Mag. 7-1/4 - 7-1/2.
11	14 33 50**					Leeward Islands.
11	21 04 50*	14½	N.	144	E.	Marianas Islands.
12	01 47 41*	40	N.	100½	E.	Kansu, China aftershock
12	03 13 49**					Near east coast of Dominican Republic. h about 150 km.
12	10 08 46*	17½	S.	70	W.	Southern Peru. h about 150 km.
12	21 22 30**					Near north coast of Java.
14	06 41 44*	6½	S.	81	W.	Near coast of northern Peru.
14	10 43 21*	17	S.	179½	W.	Fiji Islands. h about 600 km.
14	14 42 02*	33½	N.	141	E.	Off coast of Honshu, Japan.
15	03 22 45*	5½	N.	82½	W.	South of Panama. Mag. 6-1/4 - 6-1/2.
15	12 03 06*	16½	N.	100	W.	Near coast of Mexico. Minor damage at Acapulco. Depth slightly greater than normal.
15	15 40 37*	6½	S.	81	W.	Northern Peru foreshock.
15	19 50 52*	6½	S.	81	W.	Near coast of northern Peru.
17	01 38 50*	51½	N.	160	E.	Off southeast coast of Kamchatka.
17	08 57 54*	51½	N.	160	E.	Off southeast coast of Kamchatka.
17	11 36 18*	46½	N.	151	E.	Kurile Islands. h about 100 km.
19	00 40 25*	11½	N.	87½	W.	Off coast of Nicaragua. Felt at Managua. Mag. 6-3/4 - 7.
19	13 28 26*	45	N.	91½	E.	Sinkiang, China.
19	19 07 44*	30	S.	178	W.	Kermadec Islands. Mag. 7. Felt on Raoul Island.
19	21 34 41*	12½	N.	87½	W.	Near coast of Nicaragua. Felt at Managua and San Salvador. Mag. 6-3/4 - 7.
19	23 36 13*	19	N.	101	W.	Michoacan, Mexico. Felt at Uruapan. h about 100 km.
20	02 00 43*	11½	N.	87½	W.	Nicaragua aftershock. Felt at Managua. Mag. 6.
20	04 27 47**					Near coast of Nicaragua.
20	18 35 05*	7	S.	124½	E.	Flores Sea. h about 600 km. Mag. 6-1/2 - 6-3/4.
20	19 53 00**					Windward Islands region. h about 100 km.
20	21 28 28*	28	S.	177½	W.	Kermadec Islands. Felt on Raoul Island.
21	01 29 06**					Near coast of Nicaragua. h about 60 km.
21	04 21 55**					Northern Kurile Islands.
21	04 50 30**					Kermadec Islands.
21	15 54 42*	15½	S.	178	W.	Fiji Islands.
21	16 09 11*	52	N.	175½	W.	Andreanof Islands, Aleutian Islands.
21	18 43 35**					Off south coast of Kamchatka.
21	20 20 46*	40	N.	109	W.	Colorado-Utah border.

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Feb.	h m s	° '		° '		
21	22 49 04*	17½	S.	169½	E.	New Hebrides Islands.
21	23 39 25*	12½	N.	87	W.	Near coast of Nicaragua. h about 60 km.
22	06 11 26*	34½	N.	141	E.	Off coast of Honshu, Japan.
22	10 03 40*	9½	S.	161	E.	Solomon Islands.
22	10 26 39*	34	N.	141	E.	Honshu aftershock.
22	12 03 23*	66½	S.	26½	W.	Sandwich Islands.
23	06 40 30*	27½	N.	91	E.	Bhutan. Felt at Shillong, India.
24	17 27 52*	35½	N.	139½	E.	Near coast of Honshu, Japan. Felt at Tokyo and Yokohama.
24	19 36 15*	13	N.	144	E.	Marianas Islands.
24	20 44 30*	27½	N.	140	E.	Volcano Islands.
24	22 30 20.5	35.1	N.	119.1	W.	Near Wheeler Ridge, Calif. Felt at Bakersfield. Mag. 4.5
25	11 09 44*	39	S.	91	W.	South Pacific Ocean.
25	11 50 42*	52½	N.	34	W.	North Atlantic Ocean.
25	22 15 15*	5½	N.	83	W.	South of Panama.
25	23 51 40*	34	N.	141	E.	Honshu aftershock.
26	03 21 12*	45	N.	148	E.	Kurile Islands. h about 100 km.
26	18 46 04*	37	N.	71½	E.	Hindu Kush.
27	23 34 32*	23	S.	166½	E.	New Hebrides Islands.
28	00 55 22*	27	N.	131	E.	Ryukyu Islands region. Felt on southern Kyushu, Japan. Mag. 5-3/4 - 6.

Date and Station	Phase	Phase (GCT) h m s
Feb. 1		
BC	iP	00 43 29.1
	e	44 06
BUT	eP	00 44 04
	epP	45 10
COL	iP	00 44 02
	i	44 07
	ipP	45 10
	ipPP	48 13
HH	eP	00 44 02
	epP	45 11
LOG	eP	00 43 57
	epP	45 08
NEL	iP	00 43 29.0
	ipP	44 34.5
TUC	eP	00 44 40
Feb. 1		
BC	iP	01 19 30.6
	iPP	22 56
	eS	30 00
	eP'P'	45 31
BOZ	eP	01 19 24
	ePP	22 43
	eSKS	29 52
	eS	30 04
	eSKKS	30 34
	eSS	35 14
	eSSS	38 48
	eL	41 20
BUT	iP	01 19 16
	ePP	22 30
	ePPP	24 44
	eSKS	29 36
	eS	29 52
	ePS	30 40
	eSS	35 18
	eL	41 12
CHIC	e	01 23 37
	iSKS	31 11
	iSKKS	31 30
	iS	32 18
	ePS	33 42
	eSS	39 02
	eL	46 38
COL	iP	01 16 56
	eS	25 16
	iP'P'	46 26
COLU	eP	01 21 21
	eP'	25 43
	iP'	25 56
	eSKS	31 52
	eSKKS	33 06
	iPS	35 26
	ePKKP	36 32
	iPKKP	36 46
	eSS	40 38
COLU	eSSS	01 45 37
	eL	51 28
HONO	eP	01 16 17
	iP	16 21
	eS	24 03
	eSS	28 24
	eL	29 42
T_S = 14 sec. A=3.1mm.		
T_L = 20 sec. $A_{max.}$=5.0mm.		
HH	iP	01 19 05
	iPP	22 10
	eS	29 11
	eScS	29 35
	iPKKP	37 47
	eP'P'	45 34
	eSKPP'	49 15
	eP'P'P'	02 05 43
LIN	eP	01 20 14
	ePP	23 55
	eSKS	30 47
	ePS	32 48
	eSSS	41 51
LOG	iP	01 19 30
	ePP	22 32
	ePPP	25 07
	eS	30 14
	eP'P'	45 50
	eP'P'P'	02 06 03
NEL	iP	01 19 32.1
	iPP	22 48.1
	ePKKP	38 28
	eP'P'	45 28
	eP'P'P'	02 06 06
PHIL	iPP	01 25 41
	e	30 02
	eSKS	32 02
	eSKKS	32 57
	eS	33 21
	ePS	35 05
	iPS	35 10
	ePPS	36 08
	eSS	40 45
	eSSS	45 32
	eL	50 11
SLC	eP	01 19 28
	eS	29 52
	eScS	30 35
	ePPS	31 11
	eSS	35 31
	eSSS	39 00
SJ	eP'	01 25 55
	iP'	26 00
	ePP	28 10
	iPP	28 13
	ePKS	29 10
	eSKS	33 23
	eSKKKS	35 14
	e(S)	36 10
	e(SP)	38 20
SJ	iSP	01 38 38
	ePPS	40 07
	eSS	45 58
	eSSS	50 37
	eL	54 37
SIT	eP	01 17 32
	eS	26 30
	iS	26 34
	eL	33 54
TUC	iP	01 19 52
	i	19 58
	i	20 27
	iPP	23 29
	ePPP	25 42
	eSKS	30 16
	eS	30 44
	ePS	32 06
	eSS	36 46
	eSSS	40 08
	eL	43 08
	eP'P'	45 38
WASH	iP'	01 25 30
	i	25 48
	ePS	35 00
	eL	51 06
Feb. 1		
BC	iP	01 32 49.1
BUT	iP	01 32 34
	i	32 44
	iPPP	37 45
COL	iP	01 30 16
	eP'P'	59 45
HH	iP	01 32 24
	iPP	35 25
	ePKKP	51 02
LOG	eP	01 32 49
NEL	iP	01 32 49.9
SJ	iP'	01 39 18
TUC	iP	01 33 12
Feb. 1		
TUC	e(P)	02 06 24
Feb. 1		
BC	iP	02 35 56.3
BUT	iP	02 35 40
	i	35 50
COL	iP	02 33 21
HH	iP	02 35 30
	iPP	38 30
LOG	eP	02 35 55
NEL	iP	02 35 56.0
NEL	i	02 36 06.8
TUC	eP	02 36 18
Feb. 1		
BC	iP	03 21 01.5
COL	iP	03 18 29
HH	iP	03 20 37
NEL	iP	03 21 03.0
Feb. 1		
BUT	iP	03 26 03
COL	eP	03 23 46
HH	iP	03 25 53
NEL	iP	03 26 19.0
Feb. 1		
BUT	eP	03 34 12
	eS	35 02
	eL	35 09
COL	eP	03 39 20
HH	eP	03 34 37
	i	34 56
	iL	36 15
LOG	eP	03 33 55
	e(S)	34 24
	eL	34 38
Feb. 1		
BC	iP	04 15 52.9
BUT	iP	04 15 38
	i	15 45
COL	iP	04 13 19
	i	13 32
	i	13 40
HH	iP	04 15 28
NEL	iP	04 15 53.8
TUC	eP	04 16 15
Feb. 1		
BC	iP	04 24 52.4
	i	25 05.9
BOZ	eL	04 31 15
BUT	e(P)	04 27 18
	i	27 30
	eL	31 29
COLU	e(P)	04 30 02
HH	eP	04 27 45
	eL	32 08

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Date and Station		Phase (GCT) h m s
LIN	eL	04 32 54
LOG	e(P)	04 26 24
	eL	29 01
NEL	iP	04 24 53
SLC	eL	04 28 22
TUC	iP	04 24 52
	i	25 05
	i	25 10
	eS	25 28
	i	25 55
	iL	26 07
Feb. 1		
BC	iP	04 32 57.4
	i	33 11.1
BUT	iP	04 35 23
	i	35 35
	i	35 55
	i	36 17
	iL	39 29
CHI	eP	04 37 08
	ePP	37 20
	e(S)	41 48
	eL	44 34
COLU	eP	04 38 02
	ePP	38 50
	iL	47 15
HH	eP	04 35 49
	e(S)	37 38
	eL	40 08
LIN	eL	04 41 03
LOG	eP	04 34 30
	eL	37 00
NEL	iP	04 32 54
PHIL	iS	04 44 00
	eL	49 19
SJ	iP	04 40 28
TUC	iP	04 32 58
	i	33 04
	i	33 16
	iS	33 34
	iL	34 02
WASH	iPcP	04 40 44
	e(S)	44 20
	iL	48 33
Feb. 1		
COL	iP	05 13 45
HH	eP	05 13 58
Feb. 1		
LOG	eL	05 13 01

Date and Station		Phase (GCT) h m s
SLC	eL	05 14 57
TUC	iP	05 11 04
	i	11 10
	iL	12 09
Feb. 1		
BUT	iP	05 30 00
COL	eP	05 27 41
HH	iP	05 29 49
Feb. 1		
BC	iP	05 59 23.4
BUT	iP	05 59 08
	i	59 17
	i	59 24
COL	eP	05 56 50
HH	iP	05 58 58
LOG	eP	05 59 22
NEL	iP	05 59 23.8
	e	59 39
Feb. 1		
COL	iP	06 21 57
	ipP	22 24
HH	eP	06 22 02
	ipP	22 30
	e(PP)	25 37
Feb. 1		
BC	iP	06 33 39.3
BUT	iP	06 33 24
	i	33 30
COL	iP	06 31 05
HH	iP	06 33 14
	ePP	36 14
LOG	eP	06 33 39
NEL	iP	06 33 40.8
	i	34 07.8
TUC	eP	06 34 02
Feb. 1		
BC	iP	08 28 35.2
COL	iP	08 29 10
HH	eP	08 29 09
NEL	iP	08 28 35.5
TUC	iP	08 28 37.5
Feb. 1		
BUT	eP	09 03 16

Date and Station		Phase (GCT) h m s
HH	iP	09 03 06
NEL	iP	09 03 32.8
Feb. 1		
COL	iP	09 10 13
HH	eP	09 14 38
	i	14 52
Feb. 1		
COL	iP	10 09 09
Feb. 1		
BUT	iP	10 49 11
HH	iP	10 49 00
NEL	iP	10 49 26.8
Feb. 1		
HH	e(P)	10 58 30
Feb. 1		
HH	e(P)	12 51 20
Feb. 1		
BC	iP	13 06 26.5
	i	06 37.0
BUT	eP	13 08 53
	e	10 27
	eL	13 03
CHI	eL	13 18 08
COL	iP	13 12 52
COLU	iL	13 21 08
HH	iP	13 08 53
	e	09 11
	eL	14 00
LOG	eP	13 07 56
	eL	10 04
NEL	iP	13 06 21
PHIL	eL	13 22 35
SLC	e(S)	13 09 21
	eL	09 37
TUC	eP	13 06 26
	iP	06 29
	i	06 37
	i	06 45
	eS	07 08
	iL	07 31
Feb. 1		
HH	e(P)	13 34 07
Feb. 1		
BC	iP	14 11 32.4
BUT	eP	14 09 17
	iP	09 22

Date and Station		Phase (GCT) h m s
COL	iP	14 07 06
HH	iP	14 08 58
NEL	iP	14 10 35.2
TUC	iP	14 10 55
Feb. 1		
COL	iP	14 40 32
Feb. 1		
BC	iP	15 55 47.0
BUT	iP	15 54 31
	i	54 40
COL	iP	15 52 20
HH	iP	15 54 12
	e	55 06
	ePP	55 56
LOG	e(P)	15 55 05
NEL	iP	15 55 48.2
	iPP	57 51.8
PHIL	eL	16 13 29
Feb. 1		
COL	e(P)	16 04 09
HH	e(P)	16 07 19
Feb. 1		
COL	iP	19 14 59
	i	15 12
Feb. 1		
COL	eP	19 47 09
Feb. 1		
HH	e(P)	20 29 14
Feb. 1		
HH	e(P)	20 35 24
Feb. 1		
COL	eP	21 16 42
Feb. 1		
COL	eP	22 32 42
Feb. 1		
COL	iP	23 04 34
Feb. 2		
COL	iP	00 11 02
HH	i(P)	00 07 55
Feb. 2		
HH	e(P)	01 16 44
Feb. 2		
COL	e(P)	03 30 02

Date and Station	Phase	Phase (GCT) h m s
Feb. 2		
BC	iP	04 51 45.1
BUT	eP	04 52 18
	e	52 26
COL	eP	04 54 54
HH	iP	04 52 34
	i	52 42
NEL	iP	04 51 32.0
	i	51 42.1
SJ	eP	04 48 11
Feb. 2		
HH	e(P)	05 40 13
Feb. 2		
BC	eP	07 13 53
HH	eP	07 12 45
	i	15 03
NEL	eP	07 13 57
Feb. 2		
HH	e(P)	08 14 03
Feb. 2		
BUT	e(P)	08 32 41
Feb. 2		
COL	eP	08 55 16
Feb. 2		
COL	eP	09 02 15
Feb. 2		
COL	eP	09 28 20
	epP	29 01
Feb. 2		
BUT	eP	09 53 31
	e	53 37
COL	eP	09 51 12
HH	iP	09 53 21.5
Feb. 2		
COL	eP	09 59 37
	e	10 00 12
HH	eP	10 01 04
NEL	eP	09 59 09
Feb. 2		
HH	eP	10 55 23
RC	eP	10 54 23
	e	54 37
	e(S)	11 01 40
	eL	05 27
Feb. 2		
COL	iP	12 21 52

Date and Station	Phase	Phase (GCT) h m s
Feb. 2		
COL	eP	12 23 39
Feb. 2		
HH	e(P)	12 49 15
Feb. 2		
COL	iP	13 33 49
Feb. 2		
COL	iP	14 14 49
Feb. 2		
HH	iP	14 22 36
Feb. 2		
COL	iP	16 43 21
HH	eP	16 46 23
NEL	e(P)	16 47 17
RC	eS	16 58 29
Feb. 2		
COLU	eP	16 56 47
Feb. 2		
HH	e(P)	17 03 05
Feb. 2		
COL	eP	17 24 21
Feb. 2		
BC	iP	17 55 31.6
	i	55 41.9
BUT	iP	17 54 15
	i	54 25
	ePP	56 02
COL	iP	17 52 05
	e	54 56
COLU	eP	17 55 16
	eS	18 03 03
	eL	10 28
HH	iP	17 53 57
	ePP	55 39
	ePPP	56 13
	eS	18 00 57
	eL	08 59
NEL	iP	17 55 34.3
	i	56 02.5
PHIL	e(P)	17 54 18
	eS	18 01 28
	eSS	04 46
	eL	05 08
TUC	eP	17 55 53
	ePcP	56 40
	ePPP	59 44
	eL	18 14 41
WASH	iP	17 54 39
	ePP	56 26

Date and Station	Phase	Phase (GCT) h m s
WASH	eL	18 06 32
Feb. 2		
NEL	e(P)	18 06 32
Feb. 2		
NEL	iP	19 53 19.7
Feb. 2		
COL	eP	20 58 41
HH	iP	21 00 48
Feb. 2		
NEL	e(P)	21 11 36
Feb. 2		
HH	e(P)	22 02 50
Feb. 2		
HH	i(P)	23 31 39
Feb. 2		
BUT	e(P)	23 47 50
COL	eP	23 45 35
Feb. 3		
BC	eP	00 36 09
HH	eP	00 37 07
Feb. 3		
HH	iP	00 42 45
Feb. 3		
BUT	iP	01 18 51
	i	19 04
Feb. 3		
COL	eP	02 01 28
Feb. 3		
HH	eP	02 15 52
Feb. 3		
BC	eP	04 01 42
Feb. 3		
HH	iP	04 01 50
	e	02 23
NEL	iP	04 01 01.6
	ipP	01 41.4
TUC	eP	04 00 32
Feb. 3		
COL	eP	05 07 32
Feb. 3		
HH	iP	05 10 04
	i	10 17
NEL	iP	05 10 30.5
Feb. 3		
HH	eP	05 28 36

Date and Station	Phase	Phase (GCT) h m s
Feb. 3		
COL	eP	06 25 49
HH	iP	06 27 57
	i	28 10
NEL	eP	06 28 23
	epP	28 34
Feb. 3		
COL	eP	07 50 45
Feb. 3		
BC	iP	08 16 22.7
BUT	eP	08 15 57
COL	eP	08 13 15
HH	iP	08 15 46
NEL	iP	08 16 23.3
Feb. 3		
COL	eP	09 14 56
HH	iP	09 17 26
	e	17 40
	i	23 31
NEL	eP	09 18 03
Feb. 3		
COL	eP	09 52 14
HH	iP	09 54 44
NEL	eP	09 55 17
Feb. 3		
COL	iP	10 03 17
Feb. 3		
HH	e(P)	14 13 52
Feb. 3		
COL	iP	16 08 22
HH	e(P)	16 10 18
	e	13 30
Feb. 3		
HH	e(P)	17 22 04
Feb. 3		
HH	i(P)	17 36 16
Feb. 3		
BC	iP	18 34 55.8
	i	34 58.3
	ipP	35 28.3
BUT	iP	18 34 22
	epP	35 10
COL	iP	18 31 16
	ipP	31 46

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Date and Station		Phase (GCT) h m s
HH	iP	18 34 08
	ipP	34 41
	isP	34 48
NEL	iP	18 34 56.9
	ipP	35 19.5
	isP	35 30.7
	i	35 51.7
TUC	iP	18 35 25
	epP	35 56
Feb. 3		
HH	e(P)	19 03 12
Feb. 3		
NEL	e(P)	21 36 59
Feb. 3		
NEL	e(P)	23 55 29
Feb. 4		
BC	eP	02 01 05
HH	iP	02 01 52
NEL	iP	02 01 03.4
	e	02 35
Feb. 4		
BC	eP	03 55 39
BUT	eP	03 55 13
COL	iP	03 52 31
HH	iP	03 55 02
NEL	iP	03 55 39.3
Feb. 4		
COL	eP	04 12 50
Feb. 4		
NEL	iP	04 18 21.2
Feb. 4		
NEL	e(P)	04 38 35
	e	39 56
Feb. 4		
BC	eP	07 33 59
HH	eP	07 34 20
NEL	iP	07 33 58.2
SJ	eP	07 26 45
	e(S)	27 35
Feb. 4		
COL	iP	09 05 00
	ipP	05 50
HH	eP	09 07 12
BUT	eP	09 15 33

Date and Station		Phase (GCT) h m s
Feb. 4		
COL	eP	10 40 58
	i	41 30
Feb. 4		
BC	eP	11 14 44
	e	16 16
NEL	eP	11 14 37
Feb. 4		
NEL	eP	16 15 24
Feb. 4		
HH	e(P)	16 42 13
Feb. 4		
HH	iP	17 49 02
Feb. 4		
HH	e(P)	18 25 29
Feb. 4		
HH	e(P)	18 45 46
Feb. 4		
COL	iP	19 18 08
Feb. 4		
HH	e(P)	21 42 02
Feb. 4		
HH	e(P)	04 15 00
Feb. 5		
COL	iP	05 04 39
	ipP	04 52
HH	eP	05 03 51
Feb. 5		
NEL	e(P)	06 32 44
Feb. 5		
HH	eP	07 06 39
Feb. 5		
HH	iP	07 30 59
Feb. 5		
BC	eP	09 33 06
	iP	33 10
	i	33 39.5
	iPP	37 01.5
	eSKS	43 50
BUT	eP	09 33 28
	i	33 41
	i	34 07
	iPP	37 29
	eSKS	43 54
	eS	45 04
	ePPS	46 57
	ePKKP	50 08
	eP'P'	58 20
	eL	10 00 03
COL	iP	09 32 02

Date and Station		Phase (GCT) h m s
COL	eS	09 42 15
	i	42 27
	iScS	42 48
	ePKKP	50 04
	eP'P'	58 19
	iSKPP'	10 02 17
COLU	eP'	09 38 56
	ePP	40 33
	iSKS	45 40
	eSKKS	47 15
	iPS	50 18
	eSS	57 07
	eSSS	10 00 26
	eL	09 26
HONO	eP	09 29 20
	eS	36 55
	eL	42 36

T_S = 11 sec. A = 4.5mm.
T_L = 12 sec. $A_{max.}$=6.0mm.
T_L = 20 sec. A = 3.5mm.

HH	eP	09 33 10
	iP	33 15
	ePP	37 27
	eSKS	44 04
	ePS	45 21
	ePKKP	49 44
	eP'P'	58 22
	eSKPP'	10 01 45
LOG	eP	09 33 44
	e	34 08
	ePP	37 32
NEL	iP	09 33 09.5
	i	33 15.2
	iPP	37 06
	iPKKP	50 29.2
	eP'P'	58 25
PHIL	ePP	09 40 24
	eSKS	45 42
	e	46 23
	ePS	50 30
	i(PPS)	52 36
	eSS	56 42
	eSSS	10 02 37
	eL	09 06
RC	eP	09 34 15
	ePP	38 25
	e	43 49
	eSKS	44 11
	eSKKS	45 00
	ePS	47 28
	eL	10 02 59
SLC	e(P)	09 33 55
	ePP	37 35
	eSKS	43 47
	ePS	45 41
	eL	59 52
SJ	eP'	09 39 06
	ePP	42 30
	iPKS	42 50

Date and Station		Phase (GCT) h m s
TUC	eP	09 33 26
	e	33 48
	ePP	37 18
	eSKS	43 42
	e(S)	45 22
	ePS	46 10
	ePKKP	50 07
	eSS	51 29
	eSSS	55 12
	eP'P'	58 07
	eL	59 20
WASH	iP'	09 39 09
	i	39 46
	iPP	40 44
	eL	10 23 12
Feb. 5		
COL	eP	11 11 08
	i	11 19
Feb. 5		
BUT	eP	11 44 57
HH	iP	11 44 47
NEL	iP	11 45 12.7
Feb. 5		
BC	eP	12 26 37
BUT	iP	12 26 22
	e	26 35
COL	eP	12 24 04
HH	iP	12 26 13
NEL	iP	12 26 39.1
Feb. 5		
BC	iP	13 17 31.1
BUT	eP	13 17 58
COL	eP	13 20 42
HH	eP	13 18 14
	i	19 18
NEL	iP	13 17 30.8
	i	17 35
	ipP	17 44
SJ	eP	13 11 45
	e(S)	14 03
TUC	eP	13 16 54
	epP	17 19
Feb. 5		
BC	iP	15 23 38.3
BOZ	eP	15 24 30
	ePP	25 28
	eS	29 44
	eSS	30 40
	eL	31 31

Date and Station	Phase	Phase (GCT) h m s
BUT	iP	15 24 31
	i	24 41
	iPP	25 51
	iPcP	27 26
	eS	29 58
	eL	31 42
COL	iP	15 28 00
COLU	eP	15 22 22
	iP	22 24
	i	23 34
	iS	26 17
	iL	27 14
HH	iP	15 24 52
	iPP	26 23
LOG	iP	15 24 01
	epP	24 40
	ePP	25 20
	i	26 09
NEL	iPP	15 24 38.5
	i	26 01.0
PHIL	eP	15 23 42
	iP	23 47
	ipP	24 15
	eS	28 17
	isS	28 39
	iL	30 00
RC	eP	15 23 56
	ePP	23 54
	ePcP	26 47
	eS	28 42
	eL	30 32
SLC	eP	15 23 44
	eS	28 31
	eL	29 54
SJ	eP	15 23 20
	i	25 28
	e(S)	28 22
TUC	iP	15 22 52
	ipP	23 19
	eS	27 04
	eL	28 11
WASH	iP	15 23 26
	iL	28 11
Feb. 5		
BC	eP	16 50 35
NEL	eP	16 50 34
Feb. 5		
BC	i(P)	17 15 32.2
COL	iP	17 15 11
HH	eP	17 16 45
NEL	iP	17 15 30.9
	i	15 40.9
TUC	eP	17 14 46
Feb. 5		
BC	e(P)	18 15 01
NEL	e(P)	18 15 02
Feb. 5		
HH	eP	18 18 14
	i	18 37
LOG	e(P)	18 19 05
NEL	iP	18 19 26.9
	i	19 37.4
	i	20 44.9
Feb. 5		
NEL	iP	18 50 27.5
Feb. 5		
BUT	eP	21 16 14
COL	eP	21 13 56
HH	iP	21 16 04
NEL	iP	21 16 29.9
Feb. 5		
HH	e(P)	22 27 22
Feb. 6		
HH	iP	03 30 35
Feb. 6		
BC	eP	05 15 29
NEL	eP	05 15 31
Feb. 6		
COL	eP	08 12 23
HH	iP	08 14 31
Feb. 6		
BC	iP	09 53 54.8
COL	iP	09 54 30
	ipP	55 00
HH	eP	09 54 58
NEL	eP	09 53 54
	epP	54 18
TUC	eP	09 53 59
Feb. 6		
BUT	e(P)	11 06 39
Feb. 6		
COL	iP	11 32 22
	e	32 45
Feb. 6		
HH	eP	15 46 44
Feb. 6		
HH	e(P)	17 35 25
Feb. 6		
HH	i(P)	17 55 33
Feb. 7		
BUT	e(P)	00 12 55
	eL	16 03
HH	eP	00 13 13
	eL	17 33
LOG	eP	00 12 09
	eL	14 39
TUC	eP	00 11 44
	e	12 03
	e	12 24
	e	12 45
	i	13 24
	eL	13 53
Feb. 7		
HH	iP	06 12 06
Feb. 7		
BC	iP	06 28 13.1
	ipP	28 45.6
	iPP	31 45.1
	iPKKP	45 49.6
	eP'P'	53 55
BUT	e(P)	06 29 07
	e(pP)	29 32
	ePKKP	45 33
	eP'P'	53 47
COL	iP	06 27 59
	epP	28 28
	i	29 06
	i	29 22
	i	29 37
	i	30 15
	iPKKP	45 50
	eP'P'	54 40
COLU	eP'	06 33 57
	ePP	35 02
HONO	eP	06 24 11
	e(S)	32 07
	eL	35 45
HH	eP	06 28 32
	epP	29 06
	e(PP)	32 17
	ePKKP	45 21
	eP'P'	53 26
LOG	eP	06 28 33
	ePP	32 21
	eP'P'	53 55
NEL	iP	06 28 11.8
	i	28 22.3
	ipP	28 45.3
	e	29 04
	iPP	31 42.9
NEL	i	06 31 51
	iPKKP	45 49.3
	iP'P'	53 54
PHIL	eSKKS	06 42 05
	eS	43 21
	e(SKSP)	45 10
	epPS	45 58
	eSS	52 09
	eL	07 09 37
SJ	iP'	06 34 21
	e(PP)	36 27
	ePKS	37 47
TUC	iP	06 28 22
	ipP	28 55
	iPP	32 02
	eS	39 22
	eSP	40 12
	ePPS	41 13
	eP'P'	53 53
	eL	56 34
Feb. 7		
COL	iP	07 23 15
HH	e(P)	07 24 23
Feb. 7		
BC	e(P)	09 51 41
HH	e(P)	09 52 54
NEL	e(P)	09 51 40
TUC	eP	09 50 56
	eL	11 02 18
Feb. 7		
BC	e(P)	10 34 45
COL	eP	10 35 23
HH	e(P)	10 35 23
NEL	iP	10 34 44.3
	ipP	34 53
	isP	35 00
	i	35 30.3
PHIL	eL	11 25 11
Feb. 7		
BC	e(P)	11 38 22
BUT	iP	11 38 05
HH	iP	11 37 55
NEL	iP	11 38 22.6
Feb. 7		
BC	i(P)	11 57 19.9
COL	iP	11 56 38
	i	56 46

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Date and Station		Phase (GCT) h m s
NEL	iP	11 57 19.0
Feb. 7		
HH	eP	12 48 55
Feb. 7		
BC	iP	15 16 21.6
HH	e(P)	15 18 48
LOG	e(P)	15 17 22
NEL	iP	15 16 31.5
	i	16 47.9
PHIL	eL	15 31 34
TUC	eP	15 15 23
	e	16 34
	e	20 08
Feb. 7		
BC	e(P)	16 15 13
HH	e(P)	16 16 36
	e	20 06
NEL	e(P)	16 15 12
Feb. 7		
COL	iP	18 54 28
Feb. 7		
HH	eP	20 01 54
Feb. 7		
COL	eP	21 06 48
Feb. 7		
HH	e(P)	21 49 55
Feb. 7		
BC	iP	21 51 26.5
BUT	eP	21 52 03
COL	iP	21 52 04
HH	eP	21 52 00
LOG	eP	21 51 55
NEL	iP	21 51 26.5
	i	51 58.6
TUC	eP	21 51 29
Feb. 7		
NEL	eP	22 41 43
Feb. 7		
BC	eP	22 41 44
COL	eP	22 38 12
NEL	eP	22 41 43

Date and Station		Phase (GCT) h m s
Feb. 7		
COL	eP	22 42 22
HH	eP	22 43 35
NEL	iP	22 43 42.1
	e	47 01
SJ	iP	22 45 45
Feb. 8		
BC	iP	00 40 16.8
BUT	iP	00 40 54
	i	41 07
	i	41 17
	i	41 27
COL	iP	00 42 56
HH	iP	00 41 05
LOG	iP	00 40 36
NEL	iP	00 40 15.9
	i	40 23.7
	i	40 38.4
SJ	eP	00 36 52
TUC	iP	00 39 48
Feb. 8		
BUT	e(P)	01 27 48
NEL	i(P)	01 23 44.7
Feb. 8		
BUT	eP	01 43 54
COL	eP	01 41 34
HH	iP	01 43 44
NEL	eP	01 44 10
Feb. 8		
COL	iP	03 14 23
NEL	eP	03 11 46
SJ	eP	03 04 27
Feb. 8		
BC	e(P)	05 37 59
BUT	e(P)	05 39 31
COL	iP	05 38 31
	e	38 44
	e	39 29
HH	e(P)	05 38 32
NEL	eP	05 37 58
	e(pP)	38 55

Date and Station		Phase (GCT) h m s
Feb. 8		
NEL	e(P)	06 11 23
Feb. 8		
COL	eP	10 06 45
NEL	e(P)	10 06 08
Feb. 8		
NEL	e(P)	10 16 26
Feb. 8		
BC	iP	10 17 49.5
	i	18 02.1
BUT	eP	10 17 04
	i	18 24
COL	iP	10 17 06
	i	18 27
	i	18 49
HH	eP	10 17 05
	i	18 26
LOG	eP	10 18 18
NEL	iP	10 17 49.6
	e	19 34
TUC	eP	10 17 52
Feb. 8		
BC	e(P)	12 36 37
	e	36 57
BUT	eP	12 37 28
	e	37 36
HH	eP	12 37 37
LOG	eP	12 37 17
NEL	eP	12 36 36
	i	36 49.6
	i	36 55.6
TUC	eP	12 36 31
Feb. 8		
HH	e(P)	14 22 12
Feb. 8		
BC	iP	14 30 28.0
	ipP	30 56.5
	i	31 18.0
	eS	39 49
	ePS	40 38
BUT	iP	14 31 03
	ipP	31 31
	i	31 44
COL	eP	14 33 07
	epP	33 36
COLU	iP	14 28 48
	ipP	29 15

Date and Station		Phase (GCT) h m s
COLU	isP	14 29 28
	iS	36 36
	isS	37 22
HH	iP	14 31 16
	ipP	31 44
	ePKKP	49 47
	eP'P'	57 48
LOG	iP	14 30 45
	ipP	31 15
	eS	40 18
NEL	iP	14 30 26.6
	ipP	30 55.4
	isP	31 05.6
	i	31 27.6
	i	32 06.6
	iP'P'	58 08.4
PHIL	e(P)	14 29 59
	eS	37 36
	iS	37 39
	eScS	38 26
	isS	39 01
	e	39 55
	eSSS	44 55
	eL	50 00
SJ	iP	14 26 37
	ipP	27 04
	isP	27 18
	iPP	28 17
TUC	iP	14 29 57
	ipP	30 25
	isP	30 31
	i	31 08
	eS	38 46
	eScS	39 36
WASH	iP	14 29 17
	ipP	29 45
	isP	29 55
Feb. 8		
NEL	e(P)	15 10 31
Feb. 8		
HH	e(P)	16 40 51
Feb. 8		
COL	eP	16 58 37
Feb. 8		
BC	eP	18 55 37
	i	55 41.5
BUT	eP	18 55 17
	i	55 20
COL	eP	18 52 46
HH	iP	18 55 06
LOG	eP	18 55 39

Date and Station	Phase	Phase (GCT) h m s
NEL	iP	18 55 38.8
	i(pP)	55 57.6
TUC	eP	18 56 05
Feb. 8		
HH	e(P)	21 11 08
Feb. 8		
BC	e(P)	22 31 05
HH	e(P)	22 31 22
NEL	iP	22 31 03.8
Feb. 8		
NEL	e(P)	22 44 33
Feb. 9		
COL	eP	01 51 52
Feb. 9		
HH	eP	02 09 34
Feb. 9		
COL	eP	03 04 21
Feb. 9		
BC	eP	04 15 34
BUT	eP	04 15 05
	e	15 14
COL	iP	04 12 04
	i	12 25
HH	iP	04 14 49
	i	14 58
NEL	eP	04 15 35
Feb. 9		
HH	e(P)	05 24 45
Feb. 9		
HH	e(P)	06 30 27
NEL	e(P)	06 32 38
Feb. 9		
NEL	e(P)	07 15 23
Feb. 9		
HH	eP	08 22 20
Feb. 9		
BC	iP	09 05 02.2
	ipP	05 16.1
	i	05 26.4
BUT	eP	09 05 05
	epP	05 20
COLU	iP	09 01 19
HH	iP	09 05 18
	epP	05 31
	ePP	07 15

Date and Station	Phase	Phase (GCT) h m s
NEL	iP	09 05 02.2
	ipP	05 15.5
	i	05 42.8
PHIL	e(P)	09 01 45
	eS	05 33
	eL	07 19
SJ	iP	08 56 59
TUC	eP	09 04 32
Feb. 9		
COL	eP	11 26 27
HH	eP	11 29 14
Feb. 9		
COL	iP	13 23 09
Feb. 9		
HH	iP	13 30 38
Feb. 9		
HH	e(P)	13 50 45
	e	51 06
Feb. 9		
BC	e(P)	13 58 31
COL	iP	13 58 37
HH	eP	13 56 39
NEL	eP	13 58 21
TUC	eP	13 59 11
Feb. 9		
NEL	e(P)	14 55 34
Feb. 9		
BC	e(P)	15 19 44
HH	iP	15 20 34
NEL	i(P)	15 19 44.2
Feb. 9		
HH	e(P)	17 06 39
Feb. 9		
HH	i(P)	17 37 57
Feb. 9		
BC	eP	17 47 08
	i	47 09.9
	i	47 21.1
BUT	eP	17 46 29
	ipP	47 04
COL	iP	17 43 11
HH	iP	17 46 11
	ipP	46 38
	iPcP	48 52
	ePcS	52 35

Date and Station	Phase	Phase (GCT) h m s
NEL	iP	17 47 10.3
	ipP	47 49.8
PHIL	eL	18 14 38
SJ	iP	17 51 52
	i	52 10
TUC	eP	17 47 49
Feb. 9		
COL	iP	18 31 50
	i	32 03
NEL	e(P)	18 31 13
Feb. 9		
COL	iP	19 14 35
SJ	eP	19 19 43
Feb. 9		
NEL	e(P)	22 32 49
Feb. 9		
BC	eP	23 38 10
	i	38 20.2
BUT	eP	23 37 35
	e	37 51
COL	eP	23 38 37
HH	eP	23 37 34
	i	37 47
NEL	iP	23 38 10.4
	i	38 18.5
PHIL	eL	23 41 15
SJ	e(P)	23 34 14
Feb. 9		
NEL	e(P)	23 55 49
Feb. 10		
NEL	e(P)	01 35 27
Feb. 10		
NEL	e(P)	02 25 01
Feb. 10		
COL	iP	04 53 29
Feb. 10		
COL	eP	05 36 50
HH	e(P)	05 38 47
Feb. 10		
BC	e(P)	11 46 54
BUT	eP	11 46 47
	i	46 54
	i	47 20
COL	iP	11 44 50

Date and Station	Phase	Phase (GCT) h m s
HH	iP	11 46 37.5
NEL	iP	11 46 53.5
Feb. 10		
COL	e(P)	17 04 40
Feb. 10		
COL	iP	17 20 16
	i	20 29
HH	iP	17 23 13
	e	24 57
	i	25 21
	i	28 55
NEL	iP	17 24 10.2
TUC	eP	17 24 47
Feb. 10		
BC	eP	20 37 33
COL	iP	20 35 32
HH	eP	20 37 19
NEL	iP	20 37 33.5
	i	37 37.8
Feb. 10		
COL	eP	20 40 14
Feb. 10		
BC	e(P)	21 25 39
HH	e(P)	21 26 26
NEL	iP	21 25 38.5
	i	25 49.0
	i(pP)	26 04.3
TUC	eP	21 25 13
Feb. 10		
HH	e(P)	23 12 26
Feb. 10		
BC	eP	23 59 31
	iP	59 33.3
	i	59 46.1
	i(S)	00 00 26.1
	iL	00 33.6
BUT	eL	00 05 06
HH	eP	00 01 59
	eL	05 58
LOG	e(P)	00 01 03
	eL	03 32
NEL	eP	23 59 31
	iP	59 32.5
	i	59 46.3
SLC	eL	00 02 41

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Date and Station	Phase	Phase (GCT) h m s
Feb. 11		
COL	iP	00 00 10
HH	eP	00 00 18
Feb. 11		
HH	e(P)	00 40 38
NEL	e(P)	00 41 03
Feb. 11		
BC	iP	00 43 55.5
	i	44 00.0
	i	45 07.5
	iPP	47 57.5
	eSKS	54 39
	e(PKKP)	01 00 24
BOZ	eP	00 43 24
	ePP	47 04
	eSKS	54 00
	iS	54 30
	ePS	55 35
	eSS	01 00 22
	eSSS	04 23
	eL	10 22
BUT	iP	00 43 17
	i	43 37
	i	44 11
	e(PP)	46 36
	i	50 17
	eSKS	53 50
	eS	54 13
	e(PS)	55 29
	eSS	01 00 18
	ePKKP	00 50
	eSSS	04 04
	eL	07 22
CHI	eP	00 44 01
	ePP	48 08
	ePPP	50 13
	eSKS	54 28
	iSKS	54 37
	iSKKS	55 04
	iS	55 30
	eS	55 31
	iPS	56 56
	eSS	01 02 12
	eSSS	07 18
	eL	12 36
COL	iP	00 40 45
	eS	49 10
COLU	eP'	00 48 45
	iPP	49 01
	iPPP	51 18
	iSKS	55 18
	eSKKS	55 52
	eS	56 40
	ePS	58 20
	iPS	58 28
	iPPS	59 19
	iSS	01 04 15
	eSSS	08 32
	eL	13 06

Date and Station	Phase	Phase (GCT) h m s
HONO	eP	00 42 54
	eL	01 03 20
T_L = 19 sec. $A_{max.}$=3.5mm.		
HH	iP	00 43 05
	i(PP)	46 55
	i	50 05
	e	53 09
	eSKS	53 26
	iS	53 50
	ePS	54 27
	ePKKP	01 00 47
	eP'P'	08 54
	eP'P'P'	29 35
LIN	eSKS	00 54 36
	eS	55 26
	e(PS)	56 19
	ePPS	57 56
	eL	01 10 03
LOG	eP	00 43 47
	ePP	47 41
	eSKS	54 21
NEL	iP	00 43 56.6
	i	43 59.6
	iPP	47 57.6
	ePKKP	01 00 24
	i	00 51.6
	iP'P'	08 37.6
PHIL	ePP	00 48 13
	ePPP	50 30
	e	52 09
	iSKS	54 48
	eS	55 52
	iS	55 53
	i	56 19
	ePS	57 22
	eSS	01 02 49
	eSSS	07 19
	e	10 09
	eL	13 59
SLC	eP	00 43 34
	e	44 14
	eSKS	54 08
	eS	54 48
	ePS	56 08
	ePPS	56 54
	eSS	01 00 49
	eSSS	04 55
	eL	07 43
SJ	eP'	00 49 10
	ePP	50 48
TUC	iP	00 44 21
	ePP	48 21
	iPP	48 33
	e	54 25
	eSKS	55 06
	eS	56 10
	ePS	57 54
	ePPS	58 27
	ePKKP	01 00 11

Date and Station	Phase	Phase (GCT) h m s
TUC	eSS	01 03 01
	eSSS	07 05
	eP'P'	08 11
	eL	11 36
WASH	iP	00 44 15
	iPP	48 29
	i(SKS)	55 07
	ePS	57 34
	iPKKP	01 00 38
	eSS	02 20
	eL	11 24
Feb. 11		
COL	iP	01 40 36
HH	iP	01 42 57
Feb. 11		
COL	eP	01 52 31
Feb. 11		
COL	eP	03 03 54
Feb. 11		
COL	iP	03 08 48
HH	iP	03 11 08
Feb. 11		
COL	eP	03 25 07
Feb. 11		
COL	eP	04 36 19
Feb. 11		
COL	iP	05 04 15
HH	eP	05 06 34
Feb. 11		
BC	e(P)	08 13 35
COL	eP	08 14 13
NEL	eP	08 13 35
Feb. 11		
HH	e(P)	09 25 09
Feb. 11		
COL	iP	11 15 06
Feb. 11		
COL	iP	12 25 04
Feb. 11		
COL	eP	13 34 53
HH	e(P)	13 38 07
Feb. 11		
BC	iP	14 42 38.6
COL	iP	14 45 09
COLU	eP	14 38 22
	e	38 28

Date and Station	Phase	Phase (GCT) h m s
HH	iP	14 42 51
LOG	eP	14 42 38
NEL	iP	14 42 39.6
	i	43 28.8
	i	44 16.6
SJ	iP	14 34 42
	i(S)	35 31
TUC	eP	14 42 11
Feb. 11		
NEL	eP	16 39 32
Feb. 11		
BC	e(P)	17 19 34
HH	iP	17 19 09
NEL	eP	17 19 35
Feb. 11		
HH	e(P)	17 38 45
Feb. 11		
COL	e(P)	18 25 39
HH	e(P)	18 23 45
Feb. 11		
BC	e(P)	19 36 14
	e	37 38
NEL	eP	19 36 11
Feb. 11		
HH	e(P)	20 34 16
Feb. 11		
HH	e(P)	21 14 36
NEL	e(P)	21 15 21
Feb. 11		
BC	iP	21 17 53.2
	i	18 16.2
BUT	eP	21 17 46
COL	iP	21 15 41
HH	iP	21 17 38
	ePP	21 04
LOG	eP	21 18 05
NEL	iP	21 17 53.6
	i	18 12.4
	i	18 17.6
	i	18 24.6
TUC	e(P)	21 18 13
Feb. 11		
HH	e(P)	21 33 48

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Date and Station	Phase	(GCT) h m s
Feb. 11		
COL	iP	23 47 20
HH	iP	23 49 40
Feb. 12		
COL	eP	00 10 32
Feb. 12		
BUT	eP	02 00 42
COL	iP	01 58 09
HH	iP	02 00 29
	i	00 35
	e	02 44
NEL	e(P)	02 01 24
Feb. 12		
HH	e(P)	02 49 44
Feb. 12		
COL	eP	03 15 08
Feb. 12		
COL	eP	03 24 38
HH	eP	03 22 08
	ipP	22 38
NEL	iP	03 21 46.5
	i(pP)	22 31.0
SJ	iP	03 14 29
	i(S)	15 02
Feb. 12		
BC	iP	06 43 25.7
COL	iP	06 43 59
	e(pP)	45 10
HH	eP	06 44 03
NEL	iP	06 43 25.5
	i	43 46.5
	i	44 35.5
TUC	eP	06 43 32
Feb. 12		
SJ	iP	07 28 37
Feb. 12		
COL	iP	08 25 19
Feb. 12		
BC	iP	09 45 12.6
	i	45 20.7
	i	45 51.5
HH	iP	09 48 11
NEL	iP	09 45 08.5
	i	45 15.5
TUC	eP	09 45 37
	iP	45 33
TUC	i	09 45 44
	i	45 51
	i	46 03
	iS	46 47
	iL	47 06
Feb. 12		
BC	iP	10 19 34.0
BUT	iP	10 20 10
	e	20 25
	ipP	20 42
	e	21 10
COL	ePP	10 26 23
HH	iP	10 20 22
	ipP	21 00
NEL	iP	10 19 34.9
	i	19 38.3
	ipP	20 06.5
	isP	20 15.2
SJ	eP	10 15 32
TUC	iP	10 19 02
Feb. 12		
BC	e(P)	11 14 46
COL	iP	11 18 41
NEL	eP	11 14 46
TUC	e(P)	11 14 53
Feb. 12		
COL	eP	12 29 44
Feb. 12		
BC	i(P)	13 17 25.4
NEL	iP	13 17 24.5
	i	18 05.4
	i	18 59.9
Feb. 12		
BC	e(P)	14 20 44
NEL	iP	14 20 45.4
Feb. 12		
HH	eP	15 04 48
	e	05 02
Feb. 12		
COL	iP	16 05 35
	i	05 46
Feb. 12		
BC	e(P)	17 34 21
	e	39 26
COL	iP	17 30 21
HH	eP	17 33 21
	e	34 57
	i	35 39
HH	i	17 38 59
NEL	iP	17 34 20.5
	i	34 38.5
	i	39 27.5
TUC	e(P)	17 34 58
Feb. 12		
BC	eP'	21 41 35
	ePP	43 37
	i	44 03.2
BUT	ePP	21 43 07
	e	43 28
	e	44 13
COL	eP	21 36 10
	ePP	40 18
HH	iP'	21 41 21
	ePP	42 56
	e	44 08
	e(SKS)	49 13
NEL	iP'	21 41 33.7
	iPP	43 35.7
	i	44 02.7
	i	44 20.2
SJ	eP'	21 42 30
TUC	iPP	21 44 21
WASH	iP'	21 42 10
Feb. 12		
HH	e(P)	21 54 14
Feb. 13		
BC	i(P)	06 07 38.8
	i	07 45.8
	eL	15 19
COL	eP	06 12 13
HH	eP	06 09 12
NEL	iP	06 07 33.0
	i	07 45.0
	eL	15 17
TUC	eP	06 06 47
	eL	12 57
Feb. 13		
BC	eP	08 07 43
COL	iP	08 05 41
HH	eP	08 07 29
NEL	iP	08 07 44.0
	i	08 14.5
Feb. 13		
COL	e(P)	10 24 11
	i	24 34
HH	e(P)	10 26 54
Feb. 13		
BC	e(P)	11 09 20
BUT	eP	11 09 10
	e	09 37
HH	iP	11 09 01
NEL	iP	11 09 20.0
	e	09 51
Feb. 13		
BC	e(P)	14 26 37
	e	27 33
NEL	iP	14 26 37.0
	i	26 44.0
	i	27 32.2
Feb. 13		
COL	e(P)	15 12 45
Feb. 13		
COL	iP	15 17 20
	e	17 26
Feb. 13		
COL	eP	17 07 28
HH	eP	17 08 57
Feb. 13		
TUC	e(P)	19 12 40
Feb. 13		
COL	eP	23 32 43
Feb. 13		
COL	iP	23 38 53
HH	e(P)	23 35 03
Feb. 13		
COL	iP	23 43 29
	i	45 15
Feb. 14		
COL	eP	02 56 32
Feb. 14		
TUC	e(P)	05 05 44
Feb. 14		
BC	eP	06 43 04
BUT	eP	06 44 20
COL	eP	06 47 07
HH	eP	06 44 37
	i	44 48
NEL	iP	06 43 03
	i	43 34
	e	48 17
Feb. 14		
COL	eP	06 52 14

Date and Station		Phase (GCT) h m s
Feb. 14		
BC	eP	06 51 01
	e(PcP)	51 45
BUT	iP	06 51 51
	e	52 11
COL	iP	06 54 27
	ePP	57 47
COLU	eP	06 49 23
	eS	55 28
	eL	58 40
HH	eP	06 52 08
NEL	iP	06 51 00
	i(PcP)	51 44
	i	52 33
PHIL	eS	06 57 08
	eL	07 01 08
SJ	iP	06 47 45
	i	47 51
	e	49 10
TUC	eP	06 50 25
WASH	eP	06 50 05
Feb. 14		
HH	e(P)	07 21 15
Feb. 14		
HH	e(P)	08 10 48
Feb. 14		
COL	iP	09 33 22
Feb. 14		
BC	iP	10 54 37.6
	epP	56 38
BUT	eP	10 55 08
	epP	57 13
	ePP	58 40
COL	iP	10 54 59
	ipP	57 01
HH	iP	10 55 09
	ePP	58 40
NEL	iP	10 54 36.4
	i	54 56.4
	ipP	56 36.4
	esP	57 43
TUC	iP	10 54 43
	epP	56 43
Feb. 14		
HH	iP	11 12 56
Feb. 14		
HH	eP	11 53 11
Feb. 14		
COL	eP	12 45 15
Feb. 14		
COL	eP	14 11 04
Feb. 14		
COL	iP	14 29 13
Feb. 14		
COL	iP	14 39 17
HH	i(P)	14 39 55
Feb. 14		
COL	iP	14 51 13
HH	iP	14 53 43
NEL	iP	14 54 20.6
	i	54 50.6
Feb. 14		
BUT	eP	23 05 36
	e	05 48
COL	eP	23 04 17
HH	eP	23 05 24
Feb. 15		
COL	iP	01 59 29
Feb. 15		
COL	eP	02 04 47
Feb. 15		
BUT	e(P)	02 34 18
HH	eP	02 34 08
Feb. 15		
BC	iP	03 30 44.8
	i	30 52.8
BUT	eP	03 31 28
	i	31 42
	i	32 15
COL	iP	03 34 27
	i	34 44
COLU	eP	03 28 45
	eS	33 36
	eL	34 49
HH	iP	03 31 47
NEL	iP	03 30 44.2
	i	30 50.7
PHIL	e(S)	03 35 21
	eL	37 37
SJ	iP	03 27 29
TUC	eP	03 30 04
TUC	e(PP)	03 31 38
	eL	42 10
WASH	iP	03 29 36
Feb. 15		
COL	iP	04 22 48
HH	e(P)	04 25 44
NEL	eP	04 26 43.8
Feb. 15		
HH	e(P)	05 56 17
Feb. 15		
SJ	iP	11 18 49
	i(S)	19 24
	iL	19 47
Feb. 15		
BC	e(P)	11 26 54
COL	iP	11 29 17
COLU	eL	11 28 05
HH	eP	11 26 58
NEL	iP	11 26 46.5
SJ	iP	11 28 40
	i(S)	29 24
	iL	29 51
TUC	e(P)	11 26 17
Feb. 15		
BC	iP	11 36 47.7
COL	e(P)	11 44 09
	e	44 20
COLU	eP	11 37 04
HH	e(P)	11 37 01
NEL	iP	11 36 38.5
	i	36 47.7
Feb. 15		
BC	iP	12 08 19.7
	ipP	08 37.2
BUT	eP	12 09 28
	epP	09 50
COL	iP	12 13 02
COLU	iP	12 08 28
	ipP	08 43
HH	iP	12 09 51
NEL	iP	12 08 18.1
	ipP	08 35.1
	eL	14 38
TUC	eP	12 07 26
Feb. 15		
COL	eP	12 34 27
Feb. 15		
HH	e(P)	14 14 37
	e	15 25
Feb. 15		
COL	iP	15 12 30
Feb. 15		
BC	eP	15 50 01
BUT	e(P)	15 50 50
COL	eP	15 53 22
COLU	eP	15 48 19
HH	eP	15 51 02
	e	51 05
	e	51 38
NEL	eP	15 49 55
	i	50 01.8
	i	50 09.6
SJ	eP	15 46 41
WASH	iP	15 49 07
Feb. 15		
COL	eP	16 41 11
	e	43 19
Feb. 15		
HH	e(P)	16 52 51
Feb. 15		
HH	e(P)	17 35 39
Feb. 15		
COL	iP	17 51 41
Feb. 15		
COL	eP	18 59 43
Feb. 15		
BC	eP	20 00 15
	iP	00 17.3
BUT	eP	20 01 04
COL	iP	20 03 39
COLU	eP	19 58 35
	eS	20 04 38
	eL	07 41
HH	eP	20 01 21
NEL	iP	20 00 10.5
PHIL	eP	19 59 18
	eS	20 06 08
	e(ScS)	08 54
	eL	09 59

Date and Station	Phase	Phase (GCT) h m s
SJ	eP	19 56 54
	i	57 02
TUC	eP	19 59 34
	ePP	20 11 27
	e	14 28
WASH	iP	19 59 15
	i	59 27
	eL	20 17 07
Feb. 15		
HH	e(P)	21 00 43
Feb. 15		
COL	e(P)	23 16 36
HH	eP	23 19 00
NEL	e(P)	23 19 48
Feb. 16		
COL	iP	00 00 44
Feb. 16		
COL	iP	02 35 26
Feb. 16		
COL	i(P)	03 26 22
Feb. 16		
HH	iP	04 14 56
NEL	e(P)	04 15 45
Feb. 16		
NEL	e(P)	06 30 46
Feb. 16		
NEL	e(P)	07 25 33.6
Feb. 16		
COL	iP	12 41 46
Feb. 16		
NEL	iP	13 19 31.4
Feb. 16		
BC	eP	13 29 32
	e	30 03
COL	e(P)	13 29 56
HH	iP	13 29 33.5
NEL	iP	13 29 58.7
TUC	e(P)	13 31 05
Feb. 16		
BC	i(P)	13 44 53.3
COL	iP	13 41 37
HH	eP	13 44 04
NEL	i(P)	13 44 53.3
Feb. 16		
BC	iP	18 32 35.1
COL	iP	18 31 53
HH	eP	18 32 34
NEL	iP	18 32 35.6
	i	32 43.6
Feb. 16		
COL	iP	18 34 13
	i	34 21
Feb. 16		
COL	iP	19 32 03
HH	e(P)	19 35 07
NEL	eP	19 36 03
Feb. 16		
HH	e(P)	19 49 31
Feb. 16		
COL	eP	19 56 40
NEL	e(P)	20 00 40
Feb. 16		
COL	iP	21 30 10
NEL	eP	21 36 05
Feb. 16		
COL	eP	21 51 34
NEL	eP	21 50 55
	i	51 08.8
Feb. 16		
HH	eP	22 27 14
NEL	eP	22 28 49
Feb. 16		
NEL	i(P)	23 05 35.9
Feb. 17		
COL	iP	00 30 45
Feb. 17		
COL	iP	01 24 16
NEL	e(P)	01 27 45
Feb. 17		
BC	iP	01 49 00.7
BUT	iP	01 48 33
	iPcP	49 39
COL	iP	01 44 55
HH	eP	01 48 06
NEL	iP	01 49 01.3
	i	49 12.1
NEL	i(PcP)	01 49 40.1
	e	50 21
TUC	eP	01 49 34
WASH	iP	01 51 01
Feb. 17		
BC	e(P)	02 28 33
COL	e(P)	02 24 30
HH	e(P)	02 27 29
Feb. 17		
BC	iP	03 46 46.6
	i	46 56.1
COL	e(P)	03 51 47
HH	e(P)	03 48 38
NEL	iP	03 46 43.2
	i	46 45.2
	e	52 31
TUC	eP	03 45 51
	i	49 53
Feb. 17		
BC	i(P)	06 09 09.5
COL	iP	06 08 43
HH	e(P)	06 09 26
NEL	iP	06 09 12.4
Feb. 17		
BC	eP	09 08 06
COL	eP	09 04 01
	e	07 19
HH	eP	09 07 10
NEL	iP	09 08 07.4
	i	08 45.1
Feb. 17		
COL	iP	11 28 22
Feb. 17		
BC	eP	11 30 48
COL	eP	11 34 18
HH	eP	11 31 50
NEL	iP	11 30 47.6
SJ	iP	11 27 21
Feb. 17		
BC	iP	11 47 07.7
	ipP	47 22.7
BUT	iP	11 46 32
BUT	i	11 46 50
	ipP	47 12
	i	47 20
HH	iP	11 46 18
	i	46 33
	ipP	46 40
	ePP	48 45
NEL	iP	11 47 08.1
	ipP	47 26.7
	i(sP)	47 48.9
	iPP	48 13.7
SJ	iP	11 49 02
TUC	eP	11 47 37
Feb. 17		
BC	e(P)	11 52 27
COL	iP	11 56 00
HH	eP	11 53 32
NEL	eP	11 52 30
	i	52 37.5
TUC	e(P)	11 51 51
Feb. 17		
HH	e(P)	12 15 55
Feb. 17		
COL	i(P)	12 44 28
Feb. 17		
COL	eP	14 58 22
Feb. 17		
BC	e(P)	19 17 00
	e	18 09
COL	iP	19 21 06
HH	eP	19 17 42
	i	17 53
NEL	eP	19 17 59
	e	18 08
Feb. 17		
NEL	e(P)	23 46 42
Feb. 18		
COL	iP	00 44 46
HH	eP	00 46 53
Feb. 18		
COL	iP	00 53 10
	i	53 14
HH	eP	00 55 16
NEL	eP	00 56 29

Date and Station	Phase	Phase (GCT) h m s
Feb. 18		
HH	e(P)	01 54 55
Feb. 18		
HH	e(P)	03 38 17
Feb. 18		
HH	eP	03 42 57
NEL	e(P)	03 41 24
Feb. 18		
COL	iP	04 19 18
Feb. 18		
COL	eP	09 37 19
Feb. 19		
BC	iP	00 47 26.8
	i	47 35.5
	i	48 04.3
	iPP	48 30.3
	iPPP	48 50.8
	iPcP	49 13.6
	eS	53 15
	eScS	57 48
	i	01 20 41.2
BOZ	eP	00 48 07
	e(PP)	49 49
	eS	54 36
	eL	57 16
BUT	iP	00 48 12
	i	48 31
	ePP	49 41
	i	51 12
	i	53 28
	eS	54 12
	eL	57 45
CHI	eP	00 46 40
	iP	46 44
	i(PP)	47 48
	eS	51 32
	iS	51 36
	eL	53 01
COL	iP	00 51 24
	iPP	54 03
COLU	eP	00 45 37
	iP	45 39
	i(PP)	46 23
	iS	49 52
	iL	51 30
HONO	e(P)	00 51 37
HH	eP	00 48 30
	iP	48 32
	i(PP)	50 25
LIN	eP	00 46 44
	e	48 02
	e(S)	51 34
	eL	52 06
LOG	iP	00 47 45
	iPP	49 20
	eS	53 41
	eL	57 06
NEL	iP	00 47 25.4
	iPcP	50 00.2
	e(S)	53 43
	iP'P'	01 20 41.2
PHIL	eP	00 46 39
	iPP	47 42
	e	49 49
	eS	51 42
	iL	53 15
SLC	eP	00 47 40
	ePP	49 03
	eS	53 25
	eL	55 45
SJ	iP	00 45 19
	iPP	45 46
	i	46 32
	eS	49 21
	i	53 03
SIT	eP	00 50 16
	e(PPP)	54 24
	eS	58 36
	i	59 39
	iSS	01 03 10
	eL	06 09
TUC	eP	00 46 43
	iP	46 49
	e(PP)	47 53
	i	49 45
	eS	51 22
	eL	52 28
WASH	iP	00 46 28
	iS	51 22
	iL	52 48
Feb. 19		
BC	i(P)	01 16 39.2
COL	eP	01 20 23
COLU	e(P)	01 14 43
HH	eP	01 17 40
	e	21 36
LOG	e(P)	01 16 54
NEL	iP	01 16 34.2
	i	16 38.1
TUC	e(P)	01 15 57
Feb. 19		
COL	iP	01 32 18
HH	eP	01 29 24
Feb. 19		
COL	eP	05 59 15
COL	ipP	05 59 24
Feb. 19		
HH	eP	07 59 08
Feb. 19		
COL	eP	08 17 54
Feb. 19		
COL	eP	08 29 32
Feb. 19		
HH	eP	10 08 54
	e(S)	09 26
Feb. 19		
COL	iP	10 39 26
Feb. 19		
COL	iP	10 56 29
Feb. 19		
COL	eP	12 15 51
Feb. 19		
BC	e(P)	13 42 07
BUT	eP	13 41 14
	e	42 10
	eL	14 44 45
COL	iP	13 38 43
HH	iP	13 41 02
LOG	eP	13 41 38
NEL	e(P)	13 41 58
Feb. 19		
BC	iP	14 07 40.6
COL	iP	14 11 52
	e	13 41
NEL	eP	14 07 36.5
	i	07 41.0
	i	07 47.0
PHIL	eL	14 47 27
SLC	eL	14 35 54
SIT	eL	14 46 16
TUC	eP	14 07 27
	e	07 35
	eL	33 34
Feb. 19		
COL	eP	15 00 31
Feb. 19		
HH	e(P)	18 49 11
Feb. 19		
BC	iP	19 20 40
	eP'P'	46 32
	eSKPP'	50 27
BOZ	eSKS	19 32 00
	eS	32 42
	ePS	33 47
	e	37 00
	eSS	39 20
	eSSS	42 49
	eL	48 16
BUT	iP	19 21 15
	i	22 00
	ePP	25 22
	e(SKS)	32 02
	ePKKP	38 37
CHI	eP'	19 26 19
	ePP	26 49
	e	31 14
	eSKS	32 59
	eSKKS	33 52
	eS	34 29
	ePS	36 21
	ePPS	37 13
	eSS	42 04
	eSSS	46 43
	eL	53 15
COL	iP	19 21 20
	ePP	25 24
	eSKS	31 30
	eS	32 45
	e	33 05
	ePS	34 08
	ePKKP	38 04
	eSS	39 09
	eP'P'	46 16
	eL	47 11
COLU	eSKS	19 33 04
	eSKKS	34 06
	eS	34 44
	ePS	36 26
	ePKKP	37 26
	eSS	[illegible] 35
	e(P'P')	46 26
	eL	53 10
HONO	e(P)	19 17 18
	eS	25 01
	e(ScS)	27 14
	eL	30 35

T_S = 12 sec. A = 4.5mm.
T_L = 19 sec. $A_{max.}$ = 4.0mm.

HH	eP	19 21 18
	iP	21 23
	ePP	25 11
	ePKKP	38 05
	eP'P'	46 08
LIN	eSKS	19 32 27
	eS	33 08
	eL	50 36
LOG	iP	19 21 07
	ePP	25 15
	eS	32 23

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Date and Station	Phase	Phase (GCT) h m s
NEL	iP	19 20 40
	ePP	23 39
	e(S)	31 30
	ePKKP	38 27
	eP'P'	46 11
PHIL	e	19 28 53
	eSKS	33 32
	eSKKS	34 39
	e	37 52
	ePS	37 39
	eSS	44 01
	eSSS	48 57
	eL	57 58
RC	eP	19 21 25
	eSKS	32 13
	eS	33 08
	ePS	34 37
	eSS	39 40
	eL	50 44
SLC	e	19 21 31
	eS	31 37
	e	32 11
	eSS	37 40
	eL	47 18
SJ	e(P')	19 26 44
SIT	ePP	19 25 11
	eSKS	31 42
	iS	32 20
	ePS	33 30
	eSS	38 36
	eSSS	42 07
	eL	45 12
TUC	eP	19 20 43
	i	20 59
	ePP	24 41
	eSKS	31 15
	e(S)	31 36
	ePS	32 33
	eSS	37 21
	eSSS	40 46
	eL	43 50
WASH	ePS	19 37 18
	eL	51 40
Feb. 19		
BC	iP	21 41 37.2
	i(PcP)	44 10.2
	eL	22 56 30
BOZ	eP	21 42 16
	ePP	43 53
	eS	48 15
	e	48 43
	eL	51 09
BUT	eP	21 42 22
	e	42 39
	i	42 58
	ePP	44 38
	eS	48 32
	eL	51 46
CHI	eP	21 40 51
	eS	45 27
	eL	46 49
COL	iP	21 45 36
	e(S)	54 43
	eSS	59 08
	eL	22 02 03
COLU	iP	21 39 48
	iS	43 58
	iL	45 33
HONO	e(P)	21 45 53
HH	iP	21 42 42
	i(PP)	44 36
	e	46 27
	e(ScP)	48 17
LIN	eP	21 40 55
	eS	45 42
	eL	46 11
LOG	iP	21 41 56
NEL	iP	21 41 35.2
	iPcP	44 07.7
	iScP	47 59.2
	e(ScS)	51 09
	eL	22 56 30
PHIL	eP	21 40 51
	iPP	42 10
	eS	45 48
	eL	47 37
RC	eP	21 41 38
	iPP	43 07
	eS	46 49
	e	47 28
	eL	48 51
SLC	eP	21 41 48
	ePP	43 14
	e	43 43
	eS	47 07
	eL	49 43
SJ	eP	21 39 29
	eS	43 30
	eL	44 28
	e(ScP)	47 12
	e	51 03
SIT	e(P)	21 44 37
	eS	52 38
	eSS	56 32
	eL	58 51
TUC	eP	21 40 54
	iP	40 55
	e(ScP)	45 17
	eS	46 00
	eL	46 35
WASH	iP	21 40 39
	eL	46 16
Feb. 19		
BUT	eP	23 42 07
	e	42 28
	i(ScP)	48 56
COL	iP	23 45 42
	i	45 57
	i(pP)	46 15
	iPcP	46 40
COLU	eP	23 41 14
	epP	41 37
	isP	41 49
	eS	45 27
HH	iP	23 42 29
	ipP	42 47
	ePP	43 42
	iPcP	45 22
	e(ScP)	49 03
LOG	eP	23 41 33
	epP	41 56
	e(PP)	42 12
	eL	48 31
NEL	iP	23 40 52
	i(pP)	41 19
	i	44 37
	iPcP	44 55
	i	45 14 .4
	e(L)	47 22
SJ	eP	23 42 44
	e	43 15
TUC	eP	23 39 58
	ipP	40 19
	i	40 24
	e(S)	43 26
	iL	44 37
Feb. 20		
BC	iP	02 02 59.1
BUT	eP	02 02 27
COL	eP	01 59 19
HH	iP	02 02 11.5
NEL	iP	02 02 59.5
Feb. 20		
BC	iP	02 07 43.6
BOZ	e(P)	02 08 36
	e	08 44
	eL	20 35
BUT	iP	02 08 29
	i	08 50
	i(PcP)	10 31
	eL	22 27
CHI	ePP	02 07 59
	e(S)	11 23
	eL	13 03
COL	iP	02 11 42
	i	11 50
	eL	32 03
COLU	iP	02 05 56
	i(PP)	06 13
	e	09 24
	iS	10 04
	eL	11 32
HH	iP	02 08 49
	iPP	10 41
	iScP	13 48
LOG	iP	02 08 02
	ePP	09 28
NEL	iP	02 07 42.5
	iPcP	10 14.5
	i(ScP)	14 00.5
	eL	23 20
PHIL	eP	02 06 58
	e(PP)	08 11
	eS	11 57
	eL	14 48
RC	iP	02 07 46
	iPP	09 16
	e	12 37
	eL	16 43
SJ	eP	02 05 37
	iPP	05 50
	e(S)	09 43
	e(ScP)	13 19
TUC	eP	02 07 01
	e(S)	12 14
	eScP	13 09
WASH	iP	02 06 45
	iPP	07 48
	eL	12 42
Feb. 20		
TUC	iP	02 10 03
Feb. 20		
COL	iP	03 05 38
HH	eP	03 02 42
NEL	iP	03 01 37.5
Feb. 20		
BC	eP	04 34 48
	iPcP	37 29
BUT	eP	04 35 35
	ePcP	37 40
COL	iP	04 38 47
	iPP	41 21
COLU	iP	04 33 00
	e	33 14
	e	34 22
	e(S)	37 30
	eL	39 04

Date and Station		Phase (GCT) h m s
HH	eP	04 35 55
	ePP	37 42
LOG	eP	04 35 09
	ePcP	37 26
NEL	eP	04 34 47
	e	34 57
	i(PcP)	37 28
PHIL	eL	04 44 33
SJ	eP	04 32 39
TUC	e(P)	04 34 12
WASH	iP	04 33 52
	eL	44 28
Feb. 20		
COL	eP	06 00 33
Feb. 20		
COL	iP	06 32 33
HH	iP	06 34 56.5
NEL	iP	06 35 30.6
Feb. 20		
LOG	eP	09 44 26
	e(S)	45 00
Feb. 20		
BC	eP	18 49 24
	i	49 39.3
	iP'	52 54.3
BUT	e(P)	18 49 20
	eP'	52 50
	ipP'	54 56
	e(pPP)	55 40
	eSKS	59 03
	e(S)	19 00 22
	i(S)	00 23
	eSP	03 07
	eSKSP	03 18
	iSKSP	03 20
	epS	03 40
	esS	04 30
	esPS	06 38
	i	07 19
	eSS	08 42
	eSSS	12 36
	e	20 30
	eL	24 07
CHI	eP'	18 53 28
	ePP	56 02
	iPKS	57 02
	i	59 00
	i	19 02 10
	eSPP	07 11
	e	10 38
	esSS	16 02
	eL	34 10

Date and Station		Phase (GCT) h m s
COL	iP	18 47 28
	ipP	49 28
	iPP	51 39
	ipPP	54 25
	ePKKP	19 04 24
	iP'P'	12 27
	iSKPP'	15 08
COLU	iP'	18 53 41
	i	55 30
	ipP'	55 55
	isP'	56 31
	i	56 38
	iPP	57 08
	iPKS	57 26
	iSKKS	19 03 06
	i	03 35
	eSS	15 04
	esSS	18 07
	eSSS	20 40
HONO	iP	18 46 24
	i	46 33
	epP	48 26
	eSKS	55 55
	iSKS	55 57
	iSP	56 15
	esS	59 22
	eSS	19 01 26
	eSSS	05 04

T_P = 3 sec. A = 2mm.
T_S = 8 sec. A = 5.5mm.
T_{SS} = 11 sec. A = 2.5mm.

Date and Station		Phase (GCT) h m s
HH	eP	18 49 11
	ipP	51 07
	iP'	52 47
	ePP	54 02
	epPP	56 00
	e(sPP)	57 30
	eSKS	58 54
	i	19 00 11
	eSP	02 50
	iPKKP	03 32
	eSKKP	06 14
	eSS	09 33
	e	13 10
	e	14 33
LOG	iP'	18 52 57
	i	53 03
	iPP	54 28
	epP'	55 09
	e(PPP)	57 33
	eSKKS	59 23
	e(S)	19 00 39
	ePKKP	03 14
	eSKKP	05 48
	e	08 13
NEL	e(P)	18 49 22
	i	49 33.2
	i	50 24.2
	iP'	52 52.6
	i	53 37
	i(PP)	54 28
	ipP'	54 59

Date and Station		Phase (GCT) h m s
NEL	i(pPP)	18 55 45
	ePKKP	19 03 13
PHIL	eP'	18 53 34
	e(PP)	56 32
	iPKS	57 21
	eSKS	59 22
	i	19 02 53
	eSP	06 19
	e	13 12
	iSS	14 56
	eSSS	20 19
	eL	33 27
RC	eP'	18 53 07
	ePP	54 58
	iSKS	59 25
	eSKKS	19 00 40
	e	01 17
	e(S)	01 56
	e(SKSP)	03 30
	iSPP	05 43
	ePPS	07 24
	e	10 12
	eP'P'	12 27
	esSS	14 42
	eSSS	16 14
SLC	eP'	18 52 59
	ePP	54 18
	epPP	56 27
	e	58 22
	eSKS	58 58
	e(SKKS)	19 00 31
	eS	01 37
	eSP	03 16
	e	05 49
	esPS	06 48
	e	07 58
	e	08 57
	eSS	10 02
	e	12 30
SJ	eP'	18 54 05
	i	54 13
	iP'	55 07
	i	58 09
	e(PP)	19 00 48
	e(sPP)	02 38
	e(pPPP)	05 24
	ePSKS	09 08
SIT	eSKS	18 57 47
	iSKS	57 50
	iSKKS	58 30
	eS	58 55
	e	59 49
	eSP	19 00 24
	ePS	01 13
	isPS	03 44
	iSS	05 59
	i	06 29
TUC	eP'	18 52 52
	iP'	53 02
	iPP	54 47
	epPP	56 27
	ipPP	56 34

Date and Station		Phase (GCT) h m s
TUC	eS	19 01 02
	e	02 15
	eSP	04 01
	iSP	04 02
	iSKKP	05 55
	esPS	07 27
	eSS	09 54
	e(P'P')	12 43
	esSS	13 36
	eL	17 13
WASH	iP'	18 53 35
	iPP	55 42
	eSPP	19 08 04
	e	12 09
	esSS	17 22
	eSSS	20 36
	e	26 41
	eL	36 32
Feb. 20		
COL	iP	19 22 11
HH	iP	19 25 05.5
Feb. 20		
COL	iP	19 50 25
	e	50 35
Feb. 20		
BC	eP	20 02 15
	ipP	02 39.2
BUT	iP	20 02 24
	i	03 06
COL	iP	20 04 50
	ipP	05 19
	i	07 18
	iPP	07 52
	i	10 19
COLU	iP	19 58 53
HH	iP	20 02 37
	ipP	03 06
	iPcP	03 33
	ePP	04 46
LOG	eP	20 02 10
	epP	02 35
NEL	iP	20 02 13.2
	ipP	02 39.2
	isP	02 47
	iPP	04 15.2
SJ	iP	19 55 02
	i	56 04
	i	57 32
TUC	eP	20 01 43
	epP	02 09
Feb. 20		
HH	e(P)	20 20 33

Date and Station	Phase	Phase (GCT) h m s
Feb. 20		
COL	eP	21 28 32
Feb. 20		
BC	i(P)	21 41 17.6
BUT	eP	21 41 52
COL	iP	21 41 56
HH	eP	21 42 04
	ePP	45 55
	e	57 58
	iPKKP	59 15
	e	22 09 06
LOG	eP	21 41 43
NEL	iP	21 41 15.3
PHIL	eL	22 25 43
RC	e	22 18 09
	eL	20 28
TUC	eP	21 41 19
	e	44 05
	eS	51 48
	ePS	53 13
WASH	eL	22 32 24
Feb. 20		
COL	eP	21 57 56
NEL	eP	21 57 10
TUC	eP	21 57 18
Feb. 20		
HH	e(P)	23 47 06
Feb. 20		
BC	e(P)	23 57 54
NEL	iP	23 57 52.4
TUC	eP	23 57 55
Feb. 21		
BH	eP	01 31 01
BC	iP	01 36 04
BUT	iP	01 36 49
	iPcP	38 35
	eS	42 40
COL	iP	01 40 02
	ipP	40 16
COLU	iP	01 34 15
	i	34 25
	ipP	34 35
	eS	38 53
	eL	41 33
HH	iP	01 37 09
	iPcP	38 58
	iPP	39 09
LOG	eP	01 36 23
	ePP	38 02
NEL	iP	01 36 02.4
	iPcP	38 33.4
	i	38 43.4
PHIL	eL	01 45 20
SJ	eP	01 33 50
TUC	eP	01 35 21
	eL	46 42
WASH	iP	01 35 05
	iPP	36 01
Feb. 21		
BC	iP	01 39 00
	i	39 32
NEL	iP	01 39 36.0
	i	42 27.4
Feb. 21		
HH	iP	03 57 18
	e	57 34
Feb. 21		
BC	i(P)	04 32 35
COL	iP	04 28 21
	ipP	28 33
	i	28 47
HH	eP	04 31 27
	ipP	31 41
	e	32 29
LOG	e(P)	04 32 22
NEL	i(P)	04 32 35.5
	ePP	34 51
Feb. 21		
COL	eP	05 04 00
LOG	e(P)	05 03 57
NEL	eP	05 03 18
	i	03 29
	i	04 31.5
TUC	eP	05 03 22
	eL	41 38
Feb. 21		
NEL	e(P)	06 34 32
TUC	e(P)	06 34 29
Feb. 21		
COL	eP	09 49 51
Feb. 21		
HH	eP	11 07 02
Feb. 21		
HH	e(P)	11 28 50
Feb. 21		
NEL	e(P)	13 23 27
	i	24 05.7
Feb. 21		
COL	eP	14 39 44
Feb. 21		
COL	iP	15 29 52
Feb. 21		
BC	eP	16 06 48
BUT	eP	16 07 20
COL	iP	16 07 12
HH	eP	16 07 23
NEL	eP	16 06 46
TUC	eP	16 06 53
Feb. 21		
BC	eP	16 17 31
	i	17 40.1
BUT	eP	16 16 54
	i(pP)	17 13
	i	17 47
COL	eP	16 13 39
	iP	13 41
COLU	eP	16 20 10
HH	iP	16 16 38
	i(pP)	17 02
	iPcP	18 53
	eS	22 32
	e(sS)	23 17
LOG	eP	16 17 20
NEL	iP	16 17 32.8
	i(pP)	17 47.8
	i	18 11.8
RC	eP	16 17 48
	eS	24 29
SJ	eP	16 22 00
TUC	eP	16 18 09
	i(pP)	18 17
Feb. 21		
COL	eP	16 47 27
HH	iP	16 49 34
Feb. 21		
COL	eP	17 25 20
Feb. 21		
HH	i(P)	17 32 35
Feb. 21		
BC	eP	18 53 56
COL	iP	18 49 57
	ipP	50 07
HH	iP	18 53 01
	iPP	54 48
NEL	eP	18 53 57
TUC	eP	18 54 33
Feb. 21		
HH	eP	19 52 50
Feb. 21		
COL	eP	20 18 08
	ipP	18 25
NEL	e(P)	20 17 50
Feb. 21		
BC	eP	20 22 14
	i	22 28
	iS	23 23
	iL	23 43
BUT	iP	20 22 26
HH	iP	20 23 01
	eL	25 35
LOG	eP	20 21 33
	iS	22 08
	iL	22 18
NEL	eP	20 22 16
	i	22 33
	iL	23 51
RC	e(P)	20 22 33
	eS	23 19
SLC	eP	20 21 20
	eS	21 46
TUC	eP	20 22 38
	e	22 48
	e	22 58
	i	23 07
	iL	24 47
Feb. 21		
COL	iP	22 05 00
HH	iP	22 07 57
	e	08 18
	e	09 57
Feb. 21		
BC	iP	23 02 05.0

Date and Station		Phase (GCT) h m s
COL	iP	23 01 59
HH	e(P)	23 02 27
NEL	iP	23 02 03.7
	i	05 39.7
TUC	iP	23 02 13
Feb. 21		
BH	iP	23 41 26
BC	iP	23 46 17.6
	ipP	46 35.4
	iPP	47 47.6
BUT	iP	23 47 02
	ipP	47 21
	i	47 38
	e(S)	53 35
CHI	eP	23 45 29
	iS	50 10
	eL	52 12
COL	iP	23 50 12
	ipP	50 31
	i	50 47
COLU	iP	23 44 23
	iS	48 14
	i	48 58
	eL	49 26
HH	iP	23 47 21
	ipP	47 42
	iPP	48 46
	iPcP	49 11
NEL	iP	23 46 15.4
	ipP	46 33.7
	iPcP	48 44.7
PHIL	eP	23 45 24
	e(PP)	46 34
	eS	50 07
SJ	eP	23 44 04
	i	44 25
	i	45 10
TUC	eP	23 45 54
WASH	iP	23 45 14
	iS	49 45
Feb. 22		
COL	iP	01 28 13
Feb. 22		
BC	iP	06 23 40.3
	i(pP)	24 12.3
	ePP	26 41
BUT	iP	06 23 16
	i(pP)	23 30
COL	iP	06 20 33
	i(pP)	20 44
HH	iP	06 23 04
	i(pP)	23 19
	ePP	25 45
NEL	iP	06 23 41.6
	i(pP)	23 56.6
	i	24 32.6
	i	24 11
	iPP	26 43.1
PHIL	eL	07 13 08
TUC	eP	06 24 05
	eL	51 42
Feb. 22		
NEL	eP	08 07 52
Feb. 22		
TUC	eP	08 18 40
Feb. 22		
BC	iP	08 58 23.1
COL	iP	08 54 18
	i	54 28
HH	iP	08 57 27
	i	57 38
NEL	iP	08 58 24.4
TUC	eP	08 58 56
Feb. 22		
BC	iP	10 16 47.9
COL	iP	10 16 11
	e	16 37
	i	16 48
HH	e(P)	10 16 54
NEL	iP	10 16 48.2
Feb. 22		
BC	iP	10 38 57.0
BUT	iP	10 38 33
	i(pP)	38 57
COL	iP	10 35 51
HH	iP	10 38 21
NEL	iP	10 38 57.5
	ipP	39 15.0
	i	39 43.5
TUC	eP	10 39 21
Feb. 22		
BC	eP	11 10 05
HH	iP	11 09 29
	i	10 05
NEL	iP	11 10 06.5
Feb. 22		
BC	eP	11 19 26
COL	iP	11 16 20
HH	iP	11 18 39
	e	19 10
NEL	eP	11 19 27
Feb. 22		
BH	eP	12 15 27
BC	iP'	12 22 11.0
	iPKS	25 32.8
	eSKS	28 52
	iPKKP	32 30.5
BUT	iP'	12 22 23
	iPP	25 45
	eSKS	29 13
CHI	eP'	12 22 32
	eSKS	29 56
	eS	30 57
	e(PS)	33 08
	eSS	38 40
	eL	49 32
COL	iP'	12 23 06
	i	23 12
	i	26 56
	iPP	28 12
	eSKKS	34 45
	e(SKSP)	37 38
COLU	iP'	12 21 25
	i	27 35
	iSKS	28 40
	eS	29 33
	e(SS)	39 46
HH	eP'	12 22 12
	iP'	22 28
	i	23 07
	iPP	25 31
	e(SKS)	29 19
	eSKKS	31 04
	ePS	35 35
NEL	eP	12 18 44
	iP'	22 10.4
	i	22 25.5
	iPP	23 44.5
	iPKS	25 32.4
	eSKS	30 15
	i(PKKP)	32 30
	ePS	33 05
PHIL	eP	12 22 23
	e(PP)	24 24
	eSKS	29 08
	eS	30 10
	e(L)	45 28
RC	eP'	12 23 31
	i(SKS)	28 52
SJ	iP	12 16 05
	i	18 53
	iSKS	25 45
TUC	iP'	12 22 01
	ePP	23 39
	ePKKP	32 48
	eL	50 08
WASH	iP'	12 21 48
Feb. 22		
NEL	iP	13 01 11.5
Feb. 22		
BC	eP	13 14 58
COL	eP	13 16 16
	i	18 57
HH	e(P)	13 16 03
NEL	eP	13 14 55
Feb. 22		
COL	iP	14 15 16
Feb. 22		
COL	iP	14 53 59
NEL	eP	14 53 34
Feb. 22		
COL	eP	15 00 24
Feb. 22		
BC	eP	15 03 31
COL	eP	15 03 54
HH	iP	15 02 54
NEL	eP	15 03 32
Feb. 22		
NEL	eP	15 07 59
Feb. 22		
COL	iP	15 46 26
Feb. 22		
COL	iP	15 57 34
Feb. 22		
HH	e(P)	16 30 54
NEL	i(P)	16 31 47.7
Feb. 22		
HH	eP	18 22 21
Feb. 22		
BC	eP	18 25 08
HH	iP	18 24 22
NEL	iP	18 25 04.0
	ipP	25 10.5

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Date and Station	Phase	(GCT) h m s
NEL	i	18 25 13.5
Feb. 22		
BC	iP	18 45 22.4
COL	iP	18 41 27
	ipP	41 52
HH	eP	18 44 30
NEL	iP	18 45 24.5
	ipP	45 49.8
Feb. 22		
NEL	e(P)	21 12 11
Feb. 22		
COL	iP	22 27 43
HH	iP	22 29 48
Feb. 22		
HH	e(P)	22 42 07
Feb. 22		
COL	iP	23 55 27
NEL	e(P)	23 54 59
Feb. 23		
HH	i(P)	00 01 51
Feb. 23		
HH	eP	02 17 28
NEL	eP	02 16 22
TUC	eP	02 15 56
Feb. 23		
COL	iP	03 41 43
Feb. 23		
COL	iP	05 57 29
Feb. 23		
COL	iP	06 32 23
Feb. 23		
BC	eP'	06 59 21
	iPP	59 57.8
	ePKKP	07 10 07
BUT	ePP	06 58 30
	i	58 54
	e	07 01 06
COL	iP	06 52 26
	iPP	55 21
	eS	07 01 55
	i	02 13
	eL	13 13
COLU	eL	07 37 34
HH	eP	06 54 23
	ePP	58 14
	ePKKP	07 10 34
NEL	eP'	06 59 13
	i	59 48.4
	iPP	59 59.0
	i	07 00 13.9
	i	01 16.5
	ePKKP	10 01
PHIL	eL	07 45 34
SJ	eP'	06 59 43
	ePP	07 03 10
TUC	eP'	06 59 18
Feb. 23		
BC	eP	13 48 33
	ipP	48 50.7
BUT	iP	13 49 10
	ipP	49 28
HH	iP	13 49 22
	ipP	49 39
NEL	iP	13 48 33.0
	ipP	48 50.4
	i	48 58.3
Feb. 23		
BC	e(P)	16 35 28
NEL	i(P)	16 35 26.5
	i	35 30.5
TUC	e(P)	16 34 41
Feb. 23		
BC	iP	18 16 18.7
HH	e(P)	18 18 18
NEL	iP	18 16 18.5
TUC	eP	18 16 28
Feb. 23		
HH	e(P)	18 40 36
Feb. 23		
HH	e(P)	19 57 07
Feb. 23		
HH	e(P)	20 24 22
Feb. 23		
COL	eP	20 59 12
Feb. 23		
HH	eP	22 40 30
	e	43 06
Feb. 24		
BC	eP	00 17 24
COL	iP	00 11 32
HH	eP	00 17 37
NEL	iP	00 17 26.6
	i	17 53.4
Feb. 24		
SJ	eP	01 17 46
	iP	17 50
	i(S)	18 42
	iL	19 12
Feb. 24		
HH	eP	01 25 10
Feb. 24		
COL	iP	02 44 27
	i	44 56
HH	eP	02 45 08
	e	45 35
Feb. 24		
COL	iP	04 36 08
Feb. 24		
COL	eP	05 33 08
Feb. 24		
COL	iP	05 54 21
HH	eP	05 57 30
Feb. 24		
BC	eP	06 27 41
BUT	eP	06 27 51
	i	27 56
HH	eP	06 27 28
	e	31 12
NEL	eP	06 27 42
	e	28 36
Feb. 24		
COL	eP	07 38 16
Feb. 24		
BH	eP	08 17 01
	iS	17 09
Feb. 24		
COL	iP	09 44 12
HH	e(P)	09 47 04
Feb. 24		
BC	eP'	12 26 08
BUT	eP'	12 26 12
	ipP'	27 00
COL	eP'	12 25 31
HH	eP'	12 26 09
	epP'	26 54
	e	30 36
NEL	iP'	12 26 09.0
	ipP'	26 45.8
	e	30 23
SJ	iP'	12 25 59
TUC	eP'	12 26 10
	epP'	26 50
Feb. 24		
BC	iP'	17 39 05.5
COLU	(e)	17 38 26
HH	eP'	17 38 58
NEL	iP'	17 39 05.5
TUC	eP'	17 39 03
Feb. 24		
BC	iP	17 40 09.2
BUT	eP	17 39 42
COL	iP	17 36 56
HH	iP	17 39 30
	e(PP)	42 37
	e(PPP)	43 40
NEL	iP	17 40 09.8
	i	40 22.8
	i	41 17.8
TUC	iP	17 41 34
Feb. 24		
BC	iP	19 49 24.4
BUT	iP	19 49 18
	i	49 39
	ePP	52 46
COL	iP	19 47 24
HH	iP	19 49 10
	iPP	52 33
NEL	iP	19 49 24.3
	i	49 47.8
	i	50 07.8
	iPP	52 56.8
TUC	eP	19 49 44
Feb. 24		
BC	iP	20 57 09.8
	e	59 03
BUT	iP	20 56 51
	i	58 36
COL	iP	20 54 28
HH	iP	20 56 41
	i	58 26
NEL	iP	20 57 09.7
	i	57 28.7
	i	59 01.7

Date and Station		Phase (GCT) h m s
Feb. 24		
BC	eP	22 31 17
	i	31 37.7
	i	31 36.7
	iS	31 52.0
	i	31 56.2
	iL	32 18.2
BUT	iP	22 33 24
	e	34 29
	eL	36 50
HH	eP	22 33 41.5
	eL	37 47
NEL	iP	22 31 16.1
	i	31 23.1
TUC	e(P)	22 32 19
Feb. 24		
HH	eP	23 20 35
Feb. 24		
HH	eP	23 56 53
Feb. 25		
COL	iP	01 36 29
HH	eP	01 38 44
Feb. 25		
BC	eP	01 56 55
NEL	iP	01 56 54.1
TUC	eP	01 57 02
Feb. 25		
BC	iP	02 49 34.5
	ipP	49 51.1
COL	iP	02 45 35
	ipP	45 59
HH	eP	02 48 39
	i	49 43
NEL	iP	02 49 35.9
	ipP	49 52.7
TUC	eP	02 50 06
	epP	50 23
Feb. 25		
COL	iP	05 17 42
Feb. 25		
BC	e(P)	05 37 58
NEL	e(P)	05 37 42
Feb. 25		
HH	e(P)	08 39 10
Feb. 25		
BC	iP	11 21 47.6
	i	21 53.1
BUT	iP	11 22 36
	i	22 45
HH	eP	11 22 41
SJ	eP	11 20 11
	e	21 32
TUC	eP	11 21 21
	iP	21 26
Feb. 25		
BC	eP	12 00 31.5
BUT	eP	11 59 33
	i	59 43
COL	iP	11 59 56
HH	iP	11 59 27.5
	i(PP)	12 01 17
TUC	eP	12 00 33
Feb. 25		
COL	eP	12 35 53
Feb. 25		
COL	iP	13 30 01
Feb. 25		
COL	eP	14 51 25
	i	51 34
HH	eP	14 54 05
Feb. 25		
COL	eP	20 02 28
Feb. 25		
BH	iP	22 16 31
	iS	17 28
BC	iP	22 23 14.9
BUT	eP	22 23 59
COL	iP	22 26 55
HH	iP	22 24 17
	ePP	26 33
NEL	iP	22 23 12.6
	i	23 29.6
	i	23 41.1
SJ	iP	22 19 59
TUC	iP	22 22 34
	i	22 54
	eL	36 12
Feb. 25		
HH	eP	23 23 14
NEL	eP	23 23 49.1
Feb. 26		
BC	iP	00 03 57.0
	i	04 03.8
	i	04 11.7
BUT	iP	00 03 33
	i	04 23
COL	iP	00 00 50
HH	iP	00 03 21
	i	03 31
NEL	iP	00 03 51.6
	i	04 12.1
	i	04 36.9
	ePP	07 16
TUC	eP	00 04 22
Feb. 26		
COL	iP	01 51 26
	i	51 35
Feb. 26		
BC	eP	03 32 18
COL	iP	03 28 39
	i	28 44
	ipP	29 00
HH	iP	03 31 30
	ipP	31 53
NEL	eP	03 32 18
	i	32 24.1
	epP	32 42
Feb. 26		
BC	eP	04 34 52
COL	iP	04 34 27
HH	e(P)	04 35 09
NEL	eP	04 34 52
Feb. 26		
BC	eP	05 15 52
COL	eP	05 13 00
HH	eP	05 15 17
NEL	eP	05 15 52
Feb. 26		
COL	eP	12 28 09
Feb. 26		
HH	iP	15 48 48
	epP	49 25
NEL	eP	15 47 51
	ipP	48 34.2
Feb. 26		
BC	eP	17 02 04
	epP	02 20
COL	iP	17 06 31
HH	eP	17 03 22
	epP	03 40
NEL	iP	17 02 03.2
	ipP	02 14.2
TUC	eP	17 01 17
Feb. 26		
COL	iP	18 57 40
	i	58 11
	i	58 25
	i	58 33
	i	19 04 46
HH	iP	18 59 28
	ePP	19 03 56
NEL	eP	19 00 27
	iP	00 31.1
	ePP	05 17
Feb. 26		
BC	eP	19 07 40
HH	iP	19 07 05
NEL	iP	19 07 40.1
SJ	iP	19 05 07
Feb. 26		
BC	iP	19 11 34.5
COL	iP	19 12 30
	ipP	12 39
HH	eP	19 11 51
	iP	11 52
	e	14 58
NEL	iP	19 11 34.1
TUC	eP	19 11 26
Feb. 26		
COL	iP	20 15 08
	i	15 23
	e	17 32
Feb. 26		
HH	e(P)	22 33 02
Feb. 27		
BC	iP	01 27 54.2
COL	iP	01 28 33
	ipP	28 41
HH	eP	01 28 32
NEL	iP	01 27 54
	ipP	28 23
TUC	iP	01 28 01

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Date and Station	Phase	Phase (GCT) h m s
Feb. 27		
HH	eP	02 47 34
NEL	eP	02 46 26
Feb. 27		
NEL	e(P)	04 33 37
Feb. 27		
NEL	iP	04 51 56.8
Feb. 27		
COL	eP	08 45 01
HH	eP	08 50 13
Feb. 27		
COL	eP	09 20 23
Feb. 27		
BC	e(P)	10 18 44
	e	18 55
NEL	e(P)	10 18 45
	i	18 56.7
	e	20 30
Feb. 27		
COL	iP	11 15 41
	i	15 47
HH	iP	11 17 37
	e	19 41
Feb. 27		
HH	iP	12 00 25
	iS	00 43
Feb. 27		
COL	iP	12 14 19
	ipP	14 34
Feb. 27		
HH	e(P)	12 48 59
Feb. 27		
COL	eP	13 22 22
Feb. 27		
HH	e(P)	13 38 47
Feb. 27		
BH	iP	15 52 41
	iS	52 48
Feb. 27		
COL	iP	16 13 49
Feb. 27		
HH	eP	17 52 35
Feb. 27		
COL	eP	19 46 24
Feb. 27		
BC	eP	23 47 27
	e	47 37
BUT	eP	23 48 10
CHI	eL	00 29 00
COL	iP	23 47 08
	ipP	47 28
COLU	eL	00 32 18
HH	eP	23 47 46
NEL	iP	23 47 25.8
	i	47 32.8
	e	48 32
PHIL	eSS	00 11 23
	eL	34 58
TUC	eP	23 47 40
	ePS	00 00 09
	eL	15 42
WASH	eP'	23 52 02
	eL	00 35 03
Feb. 27		
COL	e(P)	23 57 26
Feb. 28		
HH	e(P)	00 05 00
Feb. 28		
COL	eP	00 13 14
Feb. 28		
COL	iP	00 20 39
Feb. 28		
COL	eP	00 36 07
	e	37 09
Feb. 28		
BC	iP	01 08 36
BUT	iP	01 08 13
	i	08 28
	i	08 38
	i	09 35
HH	iP	01 08 03
	ePP	11 26
	ePKKP	26 06
NEL	iP	01 08 36.9
	i	08 45.9
	i	09 36.9
	ePP	12 07
PHIL	eL	01 59 19
SJ	eP'	01 14 40
TUC	eP	01 09 00
	e	09 37
	ePP	12 50
	eSKS	19 52
	eL	40 24
Feb. 28		
NEL	iP	02 13 50.9
Feb. 28		
COL	iP	02 58 08
	i	58 26
Feb. 28		
COL	eP	03 40 01
Feb. 28		
HH	iP	12 13 54
Feb. 28		
HH	eP	14 49 54
Feb. 28		
HH	e(P)	17 41 57
NEL	eP	17 40 57
	e	41 47
Feb. 28		
COL	iP	18 28 31
HH	iP	18 28 55
	i	29 04
NEL	iP	18 28 47.2
SJ	eP	18 29 48
	i	30 05
Feb. 28		
COL	iP	19 24 29
Feb. 28		
HH	i(P)	22 34 39

Local and Minor Earthquakes		Local and Minor Earthquakes		Local and Minor Earthquakes	
day	hour	day	hour	day	hour
BUT		COL		TUC	
Feb.		Feb.		Feb.	
7	21.2	19	10.0	1	18.7
10	23.2		22.3	2	02.3
12	08.6		23.7		02.5
15	08.1	20	13.5		23.8
	23.8	21	03.9	3	01.7
17	08.9		10.4	4	12.2
	09.1	22	08.8	5	06.2
	09.1		18.6		21.5
	10.1		16.0	6	11.9
	19.9		19.2		12.0
18	02.4	23	09.6		16.2
	09.3		17.2	11	00.0
19	10.1	24	05.5		08.5
20	22.8		05.7	12	05.4
21	19.3		19.6	14	03.5
22	05.1	25	04.2		03.8
	17.2		09.7		05.3
	22.4		22.5	17	09.1
23	05.3	26	09.6		11.5
	19.3		10.3	20	05.6
24	13.5		21.1	21	01.7
	13.8	27	01.1		20.4
	17.1		08.2	22	04.1
	20.9		18.2		04.7
	23.2		18.3	24	10.0
26	08.6	28	09.1		22.5
	08.6			26	08.8
	08.6	MONT			10.0
	08.6	Feb.			10.2
27	18.8	3	03.8		13.4
28	14.9	8	00.5		13.7
			14.3		
COL		15	20.0		
Feb.		23	13.6 (felt)		
1	09.2	27	11.0		
2	22.7				
3	04.4	SJ			
5	18.6	Feb.			
	22.1	2	04.1		
6	09.3	8	22.6		
	12.1	9	15.3		
7	19.8	10	15.4		
	21.0	11	15.2		
8	04.5	15	21.3		
	07.8	23	06.2		
	12.8	27	23.6		
	13.1				
	21.0	TUC			
	21.1	1	01.8		
	23.5		03.6		
9	00.9		04.8		
	13.2		05.1		
11	02.7		05.3		
	05.9		05.5		
	12.9		05.8		
	14.2		06.2		
	21.7		06.3		
13	01.2		06.6		
	05.6		08.3		
14	05.6		09.2		
	21.5		10.7		
15	10.5		11.0		
	18.5		11.7		
16	16.4		16.6		
18	20.1		18.6		