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U. S. COAST & GEODETIC SURVEY
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SEISMOLOGICAL BULLETIN

December, 1954

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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
Dec.	h m s	° ′		° ′		
1	05 08 26**					Near coast of central Peru.
2	08 06 00**					Near coast of Chiapas, Mexico.
2	09 05 00*	43½	N.	125	W.	Off coast of Oregon.
2	17 15 01**					Off east coast of Kamchatka.
2	23 13 29*	12	N.	86½	W.	Near coast of Nicaragua. h about 100 km.
3	02 10 45**					Off coast of Nicaragua.
3	08 46 02*	44	N.	127	W.	Off coast of Oregon.
3	19 09 02*	67½	N.	136	W.	Yukon, Canada.
3	21 38 12*	41½	N.	74½	E.	Kirgiz S.S.R.
3	22 06 20*	5	N.	125½	E.	Near south coast of Mindanao, Philippine Islands. h about 250 km.
3	22 27 38*	3½	S.	148	E.	Bismarck Sea.
4	07 00 29*	5	S.	152½	E.	New Britain region. Mag. 6½.
4	18 10 23*	20	N.	69	W.	Near north coast of Dominican Republic.
4	18 31 07*	11	N.	61	W.	Near Trinidad. One killed, several injured and extensive property damage. h about 60 km. Mag. 6¼ - 6½.
6	02 51 40*	3½	S.	151	E.	New Ireland region.
6	04 13 40**					New Hebrides Islands.
6	11 22 00**					Kermadec Islands.
6	11 56 24*	54½	N.	161	E.	Near east coast of Kamchatka.
6	15 44 49*	4½	N.	125½	E.	Off south coast of Mindanao, Philippine Islands.
6	23 45 51*	11	S.	166	E.	Santa Cruz Islands.
7	06 21 33*	54	N.	164½	W.	Near Unimak Island, Alaska.
7	14 48 30*	3½	N.	125½	E.	Celebes Sea region. h about 100 km.
9	14 13 27*	15½	S.	76	W.	Off coast of Peru.
9	14 30 26*	12	N.	144	E.	Marianas Islands.
10	00 31 40*	12	S.	172½	W.	Samoa Islands.
10	09 53 43*	13	S.	171	W.	Do.
10	13 00 27*	18½	N.	81½	W.	West of Jamaica. Mag. 6¼ - 6½.
11	03 32 15*	1½	S.	13½	W.	Off coast of Liberia.
11	12 17 52**					Tonga Islands region.
11	12 57 07*	52½	N.	32	W.	North Atlantic Ocean. Mag. 6½.
12	10 39 32**					Kermadec Islands.
12	17 09 38*	10	S.	166	E.	Santa Cruz Islands.
13	01 29 50**					Southern Kurile Islands.
13	04 06 46**					Off south coast of Kodiak Island.

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth and Remarks
Dec.	h m s	° '		° '		
13	09 20 09*	7	N.	126½	E.	Near east coast of Mindanao, Philippine Islands. Felt at Davao and Hinatuan.
13	12 45 02*	13½	S.	173½	W.	Samoa Islands.
13	16 10 10*	19	N.	101	W.	Guerrero, Mexico.
13	20 38 50*	27	N.	93	E.	Assam.
13	22 38 43*	2	N.	126	E.	Molucca Passage.
14	01 51 55*"					Tonga Islands.
15	23 35 59**					Near west coast of Greece.
16	06 57 57*	24	S.	175	W.	Tonga Islands region.
16	11 07 12	39.3	N.	118.0	W.	Near Fallon, Nevada. Moderate property damage. Mag. 7.4
16	11 11 29**					Fallon aftershock. Felt. Mag. 7.1
16	12 56 55**					Near east coast of Crete.
16	13 15 03*	39½	N.	118	W.	Fallon aftershock. Mag. 5.0
16	14 16 57*	39½	N.	118	W.	Fallon aftershock. Mag. 5.8
16	15 09 42*	39½	N.	118	W.	Fallon aftershock. Mag. 5.1
18	01 45 36**					Fallon aftershock.
18	14 47 49**					Northern Burma.
19	10 23 40*	23	S.	66½	W.	Jujuy province, Argentina. Felt in northern Chile. h about 250 km. Mag. 6-1/2 - 6-3/4.
20	01 38 01**					Central Argentina-Chile border. h about 100 km.
20	12 31 58*	17	S.	178½	W.	Fiji Islands. h about 600 km.
20	17 35 54*	24	S.	175	W.	Tonga Islands region.
20	17 36 47*	40	N.	118	W.	Fallon aftershock. Mag. 5.0
21	01 22 17*	20	N.	121½	E.	Off north coast of Luzon, Philippine Islands.
21	10 06 10**					Near coast of Guatemala. h about 150 km.
21	11 57 19*	3½	S.	145½	E.	Bismarck Sea.
21	19 56 27.5	40.9	N.	123.9	W.	Humboldt County, California. Several injured and extensive property damage. Mag. 6-1/2 - 6-3/4.
21	22 04 05*	22½	N.	146	E.	Marianas Islands region.
22	04 18 16*	5½	S.	154½	E.	Solomon Islands.
23	16 27 16*	38	N.	21	E.	Near west coast of Greece. Minor property damage.
24	00 56 17**					Santa Cruz Islands. h about 150 km.
24	02 34 53**					Bonin Islands.
24	12 26 11*	16½	N.	96	W.	Oaxaca, Mexico.
26	03 41 01*	30	N.	141½	E.	South of Honshu, Japan. h about 200 km.
26	09 55 15**					Southern Gulf of California.
26	18 10 35**					El Salvador. h about 200 km.

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Dec.	h m s	° ′		° ′		
27	05 32 45*	19	S.	178	W.	Fiji Islands. h about 500 km.
27	06 47 23*	5½	S.	130	E.	Banda Sea.
27	07 19 16*	30½	N.	141	E.	Off south coast of Honshu, Japan.
27	17 18 27**					Solomon Islands.
27	19 03 06*	12	N.	146½	E.	Marianas Islands region.
28	01 00 37*	5	S.	152½	E.	New Britain region.
28	01 09 20*	4½	S.	153	E.	New Britain aftershock.
28	02 14 13*	5	S.	152½	E.	Do.
28	02 47 20**					300 miles off south coast of Honshu, Japan.
28	22 18 20**					100 miles off coast of Chiapas, Mexico.
29	09 39 59*	56	N.	160½	E.	Kamchatka.
30	09 16 08*	41	N.	124	W.	Humboldt County, California. Felt. Mag. 5½.
30	10 37 13*	15	S.	174	W.	Tonga Islands.
30	11 05 58*	37	N.	22	E.	Near south coast of Greece.
30	11 32 28*	53	N.	168	W.	Fox Islands, Aleutian Islands. Felt at Unalaska. h about 60 km. Mag. 6-1/2 - 6-3/4.
31	14 27 21*	52	N.	159	E.	Near east coast of Kamchatka.

Date and Station		Phase (GCT) h m s
Dec. 1		
NEL	eP	01 03 37
Dec. 1		
COL	iP	05 21 03
	i	21 18
	i	21 43
HH	iP	05 19 31
MONT	eP	05 11 38
	iP	11 42
	i	12 25
NEL	iP	05 18 35.1
TUC	eP	05 17 58
Dec. 1		
NEL	iP	10 16 46.4
Dec. 1		
SJ	iP	11 43 16
	i	43 25
Dec. 1		
BC	eP	14 11 38
COL	iP	14 16 02
HH	e(P)	14 14 26
NEL	iP	14 11 36.7
	i	11 41.7
TUC	eP	14 10 53
Dec. 1		
COL	iP	16 00 44
HH	iP	16 02 59
NEL	iP	16 03 29.9
	i	05 16.4
Dec. 1		
NEL	eP	16 17 44
Dec. 1		
MONT	eP	16 36 13
Dec. 1		
COL	iP	16 41 42
HH	e(P)	16 43 06
Dec. 1		
COL	e(P)	19 00 55
	e	01 41
Dec. 1		
BUT	e	23 33 22
COL	eP	23 28 32
Dec. 2		
NEL	e(P)	00 00 46
Dec. 2		
COL	iP	00 55 43
	iS	56 34
	iL	56 43
Dec. 2		
BC	eP	02 22 57
NEL	eP	02 22 59
TUC	eP	02 22 54
	e	23 04
Dec. 2		
TUC	e(P)	02 30 36
Dec. 2		
BC	eP	04 48 43
	i	51 10.4
	i	51 12.9
BOZ	e(P)	04 51 15
HH	eP	04 51 30
NEL	eP	04 48 47
	i	50 17.0
	i	50 52.2
SLC	e	04 53 39
	eL	54 50
TUC	eP	04 47 55
	i	48 11
	i	48 37
	i(S)	48 55
	i	49 14
	iL	49 53
Dec. 2		
HH	e(P)	06 32 55
NEL	eP	06 34 34
	e	34 39
TUC	e(P)	06 33 29
Dec. 2		
BC	iP	08 12 07.4
BOZ	eP	08 12 58
COL	iP	08 16 32
HH	eP	08 13 27
NEL	iP	08 12 05.5
TUC	eP	08 11 23
Dec. 2		
COL	iP	08 28 32
HH	e(P)	08 25 17
NEL	iP	08 25 46.8
Dec. 2		
COL	eP	09 00 25
Dec. 2		
BC	eP	09 07 37
BOZ	eP	09 07 33
BUT	eP	09 07 20
	eL	11 54
COL	eP	09 10 09
HH	iP	09 07 16
NEL	iP	09 07 42.9
	i	08 22.4
SLC	eP	09 07 34
TUC	eP	09 08 47
	e	09 06
Dec. 2		
HH	iP	11 03 44
Dec. 2		
COL	iP	13 40 44
Dec. 2		
COL	eP	14 01 46
HH	e(P)	14 02 27
MONT	iP	14 04 34
Dec. 2		
NEL	iP	15 16 49
	i(S)	16 54
Dec. 2		
BC	eP	15 22 44
NEL	eP	15 23 00
	e	23 08
Dec. 2		
HH	e(P)	16 10 52
NEL	eP	16 08 09
	e	10 03
	e	10 22
Dec. 2		
BC	iP	17 25 04.4
COL	eP	17 20 59
HH	eP	17 24 15
NEL	iP	17 25 05.4
	e	25 17
Dec. 2		
BH	iP	18 14 10
	iS	14 31
Dec. 2		
NEL	iP	18 33 37.7
Dec. 2		
HH	eP	18 42 25
Dec. 2		
COL	iP	19 04 11
	i(S)	04 58
Dec. 2		
BH	eP	23 15 28
BC	iP	23 20 18.7
	iPcP	22 49.2
BOZ	eP	23 20 56
BUT	eP	23 21 05
COL	iP	23 24 17
	ipP	24 46
	iPP	26 39
COLU	iP	23 18 31
	i	18 44
	e(S)	23 28
	eL	25 00
HH	eP	23 21 24
	iPcP	23 14
NEL	iP	23 20 16.9
	i	20 26.9
	i	20 36.1
	iPcP	22 49.2
SLC	eP	23 20 29
	iPcP	22 54
SJ	e(P)	23 18 10
TUC	eP	23 19 37
	e(PcP)	22 36
	eL	31 22
WASH	eP	23 19 22
	e	19 53
	e(PcP)	22 12
Dec. 2		
NEL	e(P)	23 26 37
	e	26 42
Dec. 2		
COL	iP	23 40 16
Dec. 3		
BC	iP	01 45 12.0
COL	iP	01 41 07
HH	iP	01 44 15
NEL	eP	01 45 13
Dec. 3		
BC	iP	02 17 49.5
	i(PcP)	20 19.0
BOZ	eP	02 18 27
COLU	eP	02 16 02

Date and Station		Phase (GCT) h m s
HH	e(P)	02 18 56
	iPcP	20 45
NEL	iP	02 17 48.2
	i	17 57.5
	iPcP	20 09.1
	i	20 20.0
SLC	eP	02 18 01
	i	18 12
	iPcP	20 25
TUC	eP	02 17 08
Dec. 3		
BC	iP	02 58 05.4
COL	iP	02 54 34
	i	54 47
HH	iP	02 57 20
NEL	iP	02 58 07.1
	e	58 21
TUC	eP	02 58 33
Dec. 3		
COL	iP	06 33 10
Dec. 3		
BC	eP	08 49 00
	i	49 10.0
	i	49 20.0
	i	50 05.0
	i	50 30.5
	iS	51 01.5
	iL	51 13.7
BOZ	eP	08 48 51
	i	48 58
	i	49 09
	eL	51 41
BUT	eP	08 48 37
	eS	50 17
	eL	51 06
COL	eP	08 51 16
	iP	51 20
	i	55 00
	e(S)	55 40
	eL	58 17
COLU	eP	08 53 12
	e(S)	59 08
	eL	09 02 47
HONO	e(P)	08 52 36
	e	53 54
	eS	58 04
	eL	09 00 15
T_P = 4 sec. A = 2mm.		
T_L = 10 sec. $A_{max.}$ = 5mm		
HH	eP	08 48 32
	iP	48 34
	eS	50 05

Date and Station		Phase (GCT) h m s
HH	eL	08 51 05
NEL	iP	08 49 04.0
	i	49 23.5
PHIL	e	08 55(03)
	eS	59(31)
	eL	09 04(18)
SLC	e(P)	08 48 53
	e(S)	51 08
	eL	51 52
TUC	iP	08 50 07
	i	50 30
	e	52 51
	e(S)	53 38
	eL	54 03
UK	e	08 47 11
	eL	48 24
WASH	eP	08 53 18
	eL	09 07 22
Dec. 3		
NEL	eP	12 09 27
Dec. 3		
COL	eP	12 45 53
Dec. 3		
HH	eP	13 51 30
Dec. 3		
HH	e(P)	15 54 32
Dec. 3		
HH	e(P)	16 21 02
Dec. 3		
HH	e(P)	17 20 56
Dec. 3		
BC	eP	19 14 50
COL	eP	19 10 24
	i(S)	11 02
	eL	11 10
HH	iP	19 13 59
	e	14 44
	eL	20 11
NEL	eP	19 15 49
Dec. 3		
BC	eP	21 52 20
BOZ	e(P)	21 51 32
BUT	e(P)	21 51 29
COL	iP	21 49 20
HH	iP	21 51 17
	ePP	54 57

Date and Station		Phase (GCT) h m s
NEL	i(P)	21 52 16.5
	ePP	56 29
SLC	e(P)	21 51 40
Dec. 3		
COL	iP	22 18 26
	e	18 42
	ipP	19 16
NEL	iP'	22 24 29.6
SJ	iP'	22 26 09
Dec. 3		
NEL	eP	22 35 29
	e	35 39
Dec. 3		
COL	iP	22 40 05
HH	iP	22 41 17
NEL	iP	22 41 16.7
SJ	iP'	22 47 07
Dec. 3		
BC	eP	22 43 14
COL	iP	22 41 52
HH	eP	22 43 12
NEL	eP	22 43 12
	iP	43 14.3
Dec. 3		
NEL	e(P)	22 45 45
Dec. 3		
HH	e(P)	23 08 03
Dec. 3		
COL	e(P)	23 15 14
Dec. 4		
BC	eP	02 07 31
COL	iP	02 09 08
HH	iP	02 07 29
NEL	iP	02 07 31.1
	i	07 36.1
	i	07 44.1
TUC	eP	02 07 09
Dec. 4		
HH	e(P)	04 35 15
Dec. 4		
HH	eP	05 34 07
Dec. 4		
BC	iP	07 13 55.5
	iPP	17 44.3

Date and Station		Phase (GCT) h m s
BC	i	07 18 01.0
	eSKS	24 38
BOZ	eP	07 14 10
	e	14 32
	eSKS	24 48
	iSKKS	25 08
	e(S)	25 47
	e(PS)	27 14
	eSS	32 42
	e(SSS)	36 52
	eL	46 12
BUT	e(P)	07 13 58
	iSKS	24 44
	eL	43 16
COL	eP	07 12 50
	iP	12 51
	iS	23 08
	ePPS	24 25
	eSS	28 50
	eL	34 49
COLU	eP'	07 19 29
	iP'	19 30
	i	19 41
	eSKS	26 29
	e	26 49
	ePS	30 58
	eSS	37 46
	eL	52 50
HONO	eP	07 10 04
	i	10 36
	eS	17 41
	e	18 08
	e(ScS)	19 30
	eSS	21 42
	eL	23 09
T_S = 4 sec. A = 1.5mm.		
T_L = 18 sec. $A_{max.}$ = 2mm.		
HH	eP	07 13 58
	iP	13 59
	ePP	18 01
	e	18 10
	eSKS	24 33
	eS	25 20
	ePKKP	30 57
	eP'P'	39 12
NEL	iP	07 13 55.5
	i	14 53.7
	iPP	17 44.5
	i(PKKP)	32 17.3
SLC	eP	07 14 06
	eSKS	24 47
	e(PS)	27 01
	ePPS	27 44
	eL	45 33
SJ	eP'	07 19 53
	iP'	20 02
	ePP	23 18
	ePKS	23 36

8.42874.

Date and Station		Phase	h m s
SJ		e	07 24 17
		e(SKS)	26 53
		eSKSP	33 16
		eSS	41 48
		eL	08 06 14
TUC		eP	07 14 13
		e	15 12
		ePP	18 26
		e(S)	26 19
		ePS	27 07
		ePKKP	31 03
		eL	45 00
UK		e	07 33 36
		eL	37 16
WASH		iP'	07 19 33
		i	19 44
		e(PP)	22 32
		eL	08 04 21
Dec. 4			
COL		iP	08 42 48
Dec. 4			
NEL		eP	11 37 49
Dec. 4			
COL		eP	13 02 48
Dec. 4			
COL		eP	13 29 12
Dec. 4			
COL		eP	13 47 21
Dec. 4			
BC		iP	18 18 26.9
		i	18 32.0
BUT		eP	18 18 36
COL		iP	18 21 22
COLU		eP	18 14 32
		eS	17 40
		eL	18 08
HH		iP	18 18 50
NEL		iP	18 18 26.8
SLC		iP	18 18 17
SJ		iP	18 11 16
		iS	11 54
		iL	12 04
TUC		eP	18 17 55
WASH		eP	18 15 16
		iP	15 20
		i(S)	18 52
		eL	25 19
Dec. 4			
COL		iP	18 22 40

Date and Station		Phase	h m s
HH		i(P)	18 26 55
Dec. 4			
BH		eP	18 35 24
		eS	38 39
BC		iP	18 40 34.8D
		ipP	40 45.3
		i	41 16.7
		iPcP	41 36.7
		i	41 54.7
		i	42 16.0
		i(PPP)	44 15.8
		iS	48 11.7
		e(P'P')	19 10 19
		eP'P'	10 52
BOZ		eP	18 40 35
		iP	40 36
		ipP	40 56
		iPcP	41 42
		i	41 55
		ePPP	43 55
		i	45 34
		eS	48 12
		isS	48 35
		eScS	50 23
		eSS	52 04
		eL	53 16
BUR		iP	18 37 (55)
		iPP	38 (40)
BUT		iP	18 40 44
		ipP	40 58
		i	41 17
		i	41 28
		i(PcP)	41 55
		i	45 40
		iS	48 24
		isS	48 51
		i	49 21
		iScS	50 32
		i	50 48
		eSS	52 04
		eL	53 06
COL		iP	18 43 09
		iPP	46 04
		e(S)	52 36
		eL	19 03 32
COLU		iP	18 37 10
		ipP	37 30
		iPP	38 03
		i	38 33
		i(PcP)	40 32
		iS	41 58
		iL	43 37
		iScP	43 56
HH		iP	18 40 56
		ipP	41 16
		isP	41 32
		i	42 37
		ePP	43 15
		eS	48 50
		esS	49 10
		eScS	50 35

Date and Station		Phase	h m s
HH		eP'P'	19 10 24
NEL		eP	18 40 33C
		iP	40 33.9D
		i(pP)	41 00.7
		isP	41 22.8
		iPcP	41 38.9
		i	44 11.0
		i	44 19.0
		iS	48 11.8
		e(P'P')	19 10 14
		eP'P'	10 53
SLC		iP	18 40 26
		ipP	40 41
		isP	41 01
		i(PP)	42 52
		e	44 08
		eS	47 49
		e	48 39
		eSS	51 47
		eL	52 54
SJ		iP	18 33 19
		i	34 00
		iS	35 10
		iL	36 00
TUC		eP	18 40 04
		iP	40 05
		ipP	40 19
		ePP	42 11
		i	42 47
		eS	47 13
		esS	47 42
		eL	51 23
		e(P'P')	19 09 11
UK		e(P)	18 41 41
		eS	49 44
		eL	56 30
WASH		iP	18 37 28
		ipP	37 50
		i	38 27
		i	39 20
		eS	42 32
		eL	44 24
Dec. 4			
BC		eP	19 17 51
HH		e(P)	19 18 13
NEL		eP	19 18 00
Dec. 4			
HH		eP	19 51 04
Dec. 4			
HH		e(P)	21 12 17
Dec. 4			
COL		eP	22 15 55
Dec. 4			
COL		iP	22 52 33

Date and Station		Phase	h m s
Dec. 4			
HH		iP	23 09 09
Dec. 5			
BC		iP	00 41 23.4
COL		eP	00 37 17
HH		iP	00 40 51
		i	41 03
NEL		iP	00 41 22.6
		e	41 34
		e	41 41
Dec. 5			
COL		iP	01 38 40
		e	39 45
Dec. 5			
COL		iP	01 48 18
Dec. 5			
COL		eP	03 19 24
Dec. 5			
NEL		e(P)	07 30 28
Dec. 5			
BC		iP	07 37 34.5
COL		iP	07 31 10
HH		eP	07 38 28
NEL		iP	07 37 33.5
		e	37 47
TUC		eP	07 37 01
Dec. 5			
COL		iP	07 40 27
TUC		eP	07 40 38
Dec. 5			
COL		iP	07 56 01
Dec. 5			
NEL		e(P)	09 21 02
Dec. 5			
COL		eP	10 01 10
Dec. 5			
COL		eP	12 13 07
Dec. 5			
COL		iP	12 57 50
Dec. 5			
HH		i(P)	17 31 47
Dec. 5			
COL		iP	18 42 59
Dec. 5			
NEL		eP	19 32 58

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Date and Station		Phase (GCT)
		h m s
Dec. 5		
BC	eP	19 48 01
COL	iP	19 42 15
HH	eP	19 47 55
NEL	iP	19 48 04.9
SJ	iP	19 49 58
Dec. 5		
COL	eP	20 08 00
Dec. 5		
BC	eP	21 55 00
BOZ	eP	21 56 07
COL	eP	21 58 32
COLU	eP	21 55 45
HH	eP	21 56 27
NEL	eP	21 54 57
	e	57 03
	e	58 06
Dec. 5		
HH	e(P)	22 44 08
Dec. 5		
COL	iP	23 39 12
Dec. 6		
NEL	e(P)	00 16 39
Dec 6		
BC	eP	03 05 11
BOZ	eP	03 05 33
COL	eP	03 03 58
	i	04 10
HH	eP	03 05 11
	i	05 32
	ePP	09 34
NEL	iP	03 05 10.7
Dec. 6		
BC	eP	03 51 55
BOZ	eP	03 51 55
BUT	eP	03 52 04
COL	iP	03 54 29
HH	iP	03 52 16
NEL	iP	03 51 53.5
	ipP	52 08.7
SJ	eP	03 44 39
TUC	eP	03 51 23

Date and Station		Phase (GCT)
		h m s
Dec. 6		
BC	iP	04 26 42.1
COL	iP	04 26 39
NEL	iP	04 26 41.2
TUC	eP	04 26 50
Dec. 6		
NEL	e(P)	09 12 03
SJ	iP	09 04 09
Dec. 6		
BC	eP	09 50 20
COL	iP	09 50 56
	ipP	51 37
NEL	eP	09 50 19
	e	50 47
	e	50 59
Dec. 6		
BC	e(P)	11 34 25
	e	34 58
NEL	eP	11 34 57
	e	35 48
TUC	eP	11 35 01
	e	35 49
Dec. 6		
BC	iP	12 06 22.0
BOZ	eP	12 05 45
BUT	eP	12 05 39
COL	iP	12 02 07
	i	02 39
	i	02 49
HH	iP	12 05 21
NEL	iP	12 06 23.3
	iPcP	06 32.8
	e	06 48
	e	07 15
SLC	iP	12 06 09
	i	06 18
TUC	eP	12 06 55
	i	07 04
Dec. 6		
BC	eP	14 52 13
COL	iP	14 51 36
	ipP	51 57
NEL	iP	14 52 12.8
Dec. 6		
COL	iP	15 57 24

Date and Station		Phase (GCT)
		h m s
SJ	eP'	16 05 06
Dec. 6		
NEL	iP	18 35 59.3
Dec. 6		
BC	eP	19 43 21
COL	eP	19 36 10
HH	eP	19 42 10
	e	42 29
NEL	iP	19 43 08.5
Dec. 6		
BH	iP	19 44 02
	iS	44 26
Dec. 6		
COL	eP	21 34 29
	e	34 40
Dec. 6		
COL	eP	22 27 03
NEL	eP	22 26 17
	i	26 26.8
	e	26 45
TUC	e(P)	22 26 21
	eL	23 04 30
Dec. 6		
BC	iP	23 58 44.3
	i	58 52.8
BOZ	iP	23 59 08
BUT	iP	23 59 04
COL	iP	23 58 19
	i	58 29
HH	iP	23 59 01
NEL	iP	23 58 44.1
	i	58 52.3
SLC	eP	23 59 00
SJ	iP'	00 05 02
TUC	iP	23 58 56
	eL	00 28 01
Dec. 7		
BC	iP	04 25 01.4
BUT	eP	04 25 22
HH	eP	04 25 25
NEL	iP	04 25 03.7
TUC	eP	04 26 06

Date and Station		Phase (GCT)
		h m s
Dec. 7		
BC	iP	06 28 59.6
	i	29 10.3
	e	29 31
	e(PcP)	31 14
	iPcP	31 26.8
BOZ	eP	06 28 28
BUT	eP	06 26 29
COL	iP	06 24 56
	eL	28 19
HH	eP	06 28 00
	iPcP	30 16
	i	30 51
	i	31 03
	eL	34 33
NEL	iP	06 29 00.9
	i	29 11.6
	e(PcP)	31 11
	iPcP	31 26.6
SLC	eP	06 28 50
SJ	eP	06 33 46
TUC	iP	06 29 40
	eL	47 45
Dec. 7		
COL	eP	12 57 52
	e	59 14
Dec. 7		
BC	eP	14 43 14
	e	43 17
NEL	iP	14 43 12
	i	43 17
Dec. 7		
BC	eP	14 47 47
BOZ	eP	14 47 40
HH	iP	14 47 25
NEL	eP	14 47 51
	e	48 01
Dec. 7		
COL	iP	14 56 19
Dec. 7		
BC	eP'	15 07 03
	ePP	07 42
	e	07 54
COL	eP	15 01 02
HH	e(P)	15 02 44
NEL	eP	15 03 05
	iP'	07 03.0
	e	07 11

Date and Station		Phase (GCT) h m s
NEL	e	15 07 21
	ePP	07 43
SJ	eP'	15 08 20
	i	08 45
Dec. 7 BC	eP	17 01 02
NEL	iP	17 01 00.1
Dec. 7 HH	e(P)	18 13 20
NEL	eP	18 12 31
Dec. 7 BH	eP	21 08 58
Dec. 7 HH	e(P)	22 15 00
Dec. 8 NEL	eP	00 53 08
	e	54 27
Dec. 8 NEL	iP	03 24 30
Dec. 8 TUC	e(P)	06 41 28
	e	42 05
Dec. 8 COL	eP	07 59 55
NEL	eP	07 56 46
Dec. 8 BC	iP	08 51 17.9
COL	iP	08 48 16
	i	48 30
HH	iP	08 50 42
	e	51 42
NEL	iP	08 51 18.2
SLC	eP	08 51 13
TUC	eP	08 51 42
Dec. 8 COL	iP	11 07 50
Dec. 8 HH	e(P)	12 19 39
Dec. 8 TUC	eP	12 37 37
Dec. 8 BH	iP	14 06 32
	iS	06 43
Dec. 8 SJ	i(P)	15 01 27

Date and Station		Phase (GCT) h m s
Dec. 8 COL	eP	15 20 15
Dec. 8 COL	eP	17 09 22
Dec. 8 COL	eP	17 54 17
Dec. 8 BOZ	eP	20 50 55
HH	eP	20 51 14
SLC	eP	20 50 16
TUC	eP	20 49 05
	eL	59 30
Dec. 8 HH	eP	21 13 28
Dec. 8 BUT	eP	23 38 40
Dec. 9 HH	i(P)	01 04 34
Dec. 9 BUT	eP	03 10 48
Dec. 9 NEL	eP	03 17 57
Dec. 9 NEL	eP	03 25 07
	e	26 21
Dec. 9 BUT	eP	05 43 36
COL	eP	05 47 09
Dec. 9 NEL	eP	06 39 03
Dec. 9 BC	e(P)	06 51 02
NEL	i(P)	06 51 38.2
Dec. 9 NEL	eP	08 26 10
Dec. 9 BC	eP	08 37 18
COL	eP	08 38 10
NEL	eP	08 37 26
	e	37 38
TUC	eP	08 37 30
Dec. 9 NEL	iP	10 08 23.7
Dec. 9 TUC	e(P)	11 15 34

Date and Station		Phase (GCT) h m s
Dec. 9 BC	iP	12 25 30.1
BOZ	eP	12 25 41
BUT	eP	12 25 43
COL	iP	12 26 35
HH	iP	12 25 46
NEL	iP	12 25 28.8
SLC	eP	12 25 34
TUC	eP	12 25 20
Dec. 9 COL	eP	12 49 54
Dec. 9 COL	iP	12 50 41
Dec. 9 NEL	eP	14 00 12
Dec. 9 NEL	eP	14 15 28
Dec. 9 BC	iP	14 23 59.2
BOZ	eP	14 24 35
COL	iP	14 27 01
	ePP	30 50
HH	iP	14 24 55
NEL	iP	14 23 58.2
	i	24 04.1
	i	24 49.6
	e	24 57
SLC	eP	14 24 13
SJ	eP	14 20 19
	ePP	21 27
TUC	iP	14 23 25
	ePcP	24 14
Dec. 9 BC	iP	14 43 41.7
BOZ	eP	14 43 39
BUT	eP	14 43 34
COL	iP	14 41 42
HH	iP	14 43 26
NEL	iP	14 43 41.6
	i	43 55.0
TUC	e(P)	14 43 42

Date and Station		Phase (GCT) h m s
Dec. 9 BC	eP	16 40 25
NEL	iP	16 40 25.9
Dec. 9 BC	iP	17 09 03.7
NEL	iP	17 09 02.2
	i	09 19.8
	i	09 25.0
	i	09 38.8
Dec. 9 NEL	iP	17 16 46.7
Dec. 9 NEL	iP	18 01 20.5
Dec. 9 NEL	iP	18 06 53.5
	i	08 22.7
Dec. 9 NEL	i(P)	18 09 32.2
	i	09 42.2
Dec. 9 NEL	i(P)	18 10 59.2
	e	11 40
	i	12 21.2
Dec. 9 NEL	iP	18 13 24.2
Dec. 9 NEL	iP	18 16 17.0
Dec. 9 NEL	iP	18 19 14.8
Dec. 9 NEL	iP	18 21 26.1
	i	22 23.9
Dec. 9 BC	eP	18 24 13
COL	iP	18 25 53
HH	e(P)	18 24 12
NEL	iP	18 24 13.5
Dec. 9 NEL	iP	18 27 40.3
	i	33 22.5
Dec. 9 NEL	iP	19 00 12.9
Dec. 9 NEL	eP	19 38 38
Dec. 9 HH	e(P)	20 03 40

Date and Station		Phase (GCT)
		h m s
Dec. 9		
BUT	e(P)	20 19 46
COL	eP	20 14 41
	i	14 53
Dec. 10		
BC	iP	00 43 11.1
BOZ	eP	00 43 51
BUT	eP	00 43 47
COL	iP	00 43 46
HH	eP	00 43 47
	ePP	46 58
LOG	e(P)	00 44 02
NEL	iP	00 43 10.5
SLC	eP	00 43 36
Dec. 10		
COL	iP	01 59 30
Dec. 10		
BOZ	eP	02 02 12
BUT	eP	02 02 14
COL	iP	02 03 07
HH	iP	02 02 19
TUC	eP	02 01 52
Dec. 10		
BC	iP	07 57 36.9
BOZ	eP	07 57 31
COL	iP	07 55 23
HH	iP	07 57 17
NEL	iP	07 57 35.9
	i	57 43
	e	58 44
SLC	eP	07 57 38
TUC	eP	07 57 57
Dec. 10		
TUC	e(P)	08 17 49
Dec. 10		
BC	eP	10 05 12
	e	05 22
BOZ	eP	10 05 53
BUT	eP	10 05 48
COL	iP	10 05 52
HH	eP	10 05 50
LOG	e(P)	10 05 40
NEL	iP	10 05 10.9
	i	05 21.8
TUC	eP	10 05 17
	i	05 29
Dec. 10		
BH	eP	13 02 49
	eS	05 23
BC	iP	13 07 16.3
	i	07 56.3
	iPP	08 17.7
	i	08 27.7
BOZ	eP	13 07 38
	i	08 00
	ePP	08 52
	iPcP	09 46
	eS	13 26
	eL	16 18
BUT	iP	13 07 48
	i	07 57
	i	08 11
	ePP	09 08
	iPP	09 19
	iS	13 36
	eL	16 17
CHI	eP	13 05 44
	e	06 02
	eS	10 05
	iS	10 14
	eL	11 58
COL	iP	13 11 02
	iPcP	11 34
	eL	27 05
COLU	iP	13 04 15
	i	04 38
	iS	07 18
	iL	07 30
HH	eP	13 08 05
	iP	08 06
	iPP	09 39
	eS	14 17
LOG	eP	13 07 23
	iPP	08 32
MONT	iP	13 08 22
	e	14 37
NEL	iP	13 07 14.7
	i	07 56.0
	i(PP)	08 36.8
	iPcP	09 01.6
PHIL	eP	13 06 (03)
	i(S)	09 (55)
	eL	10 (54)
RC	eP	13 06 58
	ePP	07 56
	eL	13 15
SLC	eP	13 07 18
	i	07 29
	iPP	08 34
	e	08 40
	ePcP	09 25
	e	10 07
	eS	12 44
	eL	15 19
SJ	iP	13 04 00
	i	05 42
	eS	06 38
	iL	07 05
TUC	iP	13 06 37
	i	06 55
	iPP	07 44
	eS	11 48
	eL	12 18
WASH	iP	13 05 24
	i	05 36
	e(PP)	06 16
	eS	09 24
	eL	11 14
Dec. 10		
COL	iP	14 04 57
	i	05 31
Dec. 10		
COL	iP	16 31 46
HH	iP	16 36 00
NEL	iP	16 37 28.2
	e	37 42
Dec. 10		
NEL	iP	19 06 43.6
Dec. 10		
COL	eP	20 49 12
Dec. 10		
COL	eP	21 31 20
Dec. 11		
COL	eP	00 15 29
	epP	16 21
Dec. 11		
BOZ	e(P)	00 55 37
HH	e(P)	00 55 53
MONT	iP	00 48 29
NEL	eP	00 54 37
Dec. 11		
COL	iP	02 14 36
Dec. 11		
HH	i(P)	02 42 06
Dec. 11		
COL	iP	02 49 20
	i	49 30
HH	e(P)	02 49 31
Dec. 11		
COLU	eP	03 43 55
HH	eP	03 45 58
	e	46 08
MONT	eP	03 42 10
SJ	eP	03 42 02
	eS	49 35
Dec. 11		
COL	eP	04 02 17
Dec. 11		
COL	eP	04 53 20
	iP	53 25
	i	53 36
	i	54 57
NEL	e(P)	04 58 12
Dec. 11		
NEL	eP	06 10 36
Dec. 11		
BUT	eP	06 47 07
HH	eP	06 46 53
NEL	iP	06 47 26.7
Dec. 11		
COL	iP	09 00 06
Dec. 11		
BOZ	eP	09 13 19
	e	14 51
BUT	e(P)	09 14 54
COL	eP	09 18 46
HH	eP	09 13 43
LOG	e	09 14 10
	e	15 46
	eL	17 20
NEL	eP	09 10 54
	iS	12 34.0
	iL	12 44
SLC	eL	09 14 25
TUC	eP	09 10 26
	iP	10 31
	i	10 58
	i(S)	11 18
	iL	11 39

Date and Station		Phase (GCT) h m s
Dec. 11		
COL	iP	10 26 27
Dec. 11		
COL	iP	11 11 30
	ipP	12 09
Dec. 11		
NEL	eP	11 39 54
	e	40 41
Dec. 11		
BC	eP	12 29 39
BOZ	eP	12 30 21
BUT	eP	12 30 17
COL	iP	12 30 19
HH	eP	12 30 18
NEL	iP	12 29 33.5
	e	30 15
TUC	eP	12 29 46
Dec. 11		
BC	iP	13 07 07.3
	i	07 47.7
	iPP	09 24.4
	iPPP	10 39.7
BOZ	eP	13 06 05
	iP	06 06
	i	06 10
	ePcP	07 16
	i(PP)	07 38
	eS	13 08
	iS	13 14
	e	15 04
	eScS	16 04
BUT	eP	13 06 09
	iP	06 10
	i	06 15
	i	07 37
	iPP	08 15
	e(PPP)	09 17
	eS	13 14
	iS	13 15
	iScS	15 40
	i	16 26
	iL	17 14
CHI	eP	13 04 33
	ePP	06 07
	eS	10 17
	eL	12 35
COL	iP	13 06 27
	e	09 15
	iS	13 55
	iSS	17 34
	eL	19 44
	eP'P'	36 51
	e	37 35
COLU	iP	13 04 40
	iPP	06 14
	eS	10 40
	iS	10 42
	eL	13 21
	iL	13 44
HH	iP	13 06 00C
	i	06 14
	iPcP	07 29
	iPP	08 02
	eS	13 07
	e	15 15
	eP'P'	36 34
LOG	iP	13 06 27
	iPP	08 35
	ePPP	09 36
	eS	13 55
	eL	19 38
MONT	eP	13 09 27
	e	12 38
	e	36 11
NEL	iP	13 07 07.6
	i	07 42.1
	eP'P'	36 55
PHIL	eP	13 03 37
	e	04 20
	ePP	04 41
	eS	08 44
	eL	10 02
RC	eP	13 05 36
	e	06 23
	ePP	07 23
	iPP	07 28
	ePPP	08 05
	eS	12 20
	eL	15 19
SLC	eP	13 06 31
	iP	06 32
	i	06 37
	iPcP	07 42
	eS	14 01
	i	14 09
	eScS	16 19
	eSS	18 01
	eL	19 11
SJ	eP	13 05 13
	ePcP	06 57
	iPP	07 03
	ePPP	07 38
	eS	11 35
	iS	11 44
	i	14 00
	eL	15 00
TUC	iP	13 07 10
	iPP	09 12
	ePPP	10 34
	eS	15 15
	iS	15 32
	e	19 15
	eL	20 56
UK	e(P)	13 07 32
	eS	15 40
	eL	21 28
WASH	iP	13 04 00
	i	04 08
	i	04 50
	iPP	05 06
	iPcP	06 05
	eS	09 20
	eL	11 32
Dec. 11		
BC	eP	15 43 23
COL	eP	15 48 07
	i	48 44
NEL	iP	15 43 51.9
	e	44 22
Dec. 11		
NEL	iP	16 07 34.2
Dec. 11		
HH	e(P)	16 32 56
NEL	eP	16 34 00
Dec. 11		
TUC	eP	18 19 25
	iP	19 30
	i(S)	20 04
	iL	20 30
Dec. 11		
HH	eP	23 15 57
Dec. 11		
BH	eP	23 54 55
	eS	55 45
Dec. 12		
COL	eP	02 25 10
Dec. 12		
HH	eP	05 49 06
NEL	iP	05 49 30.2
Dec. 12		
BUT	e(P)	06 21 07
Dec. 12		
BC	eP	10 52 47
COL	eP	10 53 26
NEL	eP	10 52 41
	i	52 52.9
TUC	eP	10 52 42
	e	52 53
Dec. 12		
SLC	eP	12 46 26
	e	46 53
Dec. 12		
BC	eP	13 40 10
BOZ	eP	13 39 19
HH	eP	13 39 21
NEL	iP	13 40 10.7
TUC	iP	13 40 06
Dec. 12		
HH	e(P)	14 49 29
	e	51 45
NEL	e(P)	14 47 28
	iP	48 55.6
TUC	eP	14 49 43
Dec. 12		
BC	iP	17 22 28.4
COL	iP	17 22 03
HH	iP	17 22 44
NEL	iP	17 22 27.0
	e	22 42
Dec. 12		
HH	e(P)	23 08 09
Dec. 12		
COL	eP	23 43 32
Dec. 13		
BC	eP	00 02 07
COL	eP	00 02 46
NEL	eP	00 02 10
TUC	eP	00 02 09
Dec. 13		
NEL	eP	00 33 29
	i	33 36.3
Dec. 13		
BC	iP	01 31 49.1
COL	iP	01 28 01
HH	eP	01 30 55
NEL	eP	01 31 49
Dec. 13		
BC	eP	01 41 03
BOZ	eP	01 40 36
	e	43 12
BUT	e	01 40 31
COL	iP	01 37 25

Date and Station		Phase (GCT) h m s
HH	iP	01 40 15
MONT	eP'	01 49 54
NEL	iP	01 41 03.1
	e	41 22
TUC	eP	01 41 32
Dec. 13		
BC	iP	01 43 14.7
BUT	eP	01 43 07
COL	eP	01 41 12
HH	iP	01 42 59
NEL	iP	01 43 14.8
	i	43 33.9
	i	43 59.3
	i	44 17.2
TUC	eP	01 43 34
Dec. 13		
BC	eP	03 20 29
NEL	eP	03 20 27
Dec. 13		
COL	eP	03 54 32
Dec. 13		
BC	eP	04 13 27
	i	13 33.7
BOZ	e(P)	04 12 50
BUT	e(P)	04 12 37
COL	iP	04 09 04
	eS	10 35
	eL	11 20
HH	eP	04 12 16
	e	15 51
	i	19 21
NEL	iP	04 13 28.3
	i	13 35.1
	i	13 46.6
TUC	eP	04 14 16
Dec. 13		
NEL	eP	04 20 25
	e	20 32
Dec. 13		
HH	e(P)	04 23 53
NEL	eP	04 25 05
	i	25 12.8
Dec. 13		
BC	eP	04 27 55

Date and Station		Phase (GCT) h m s
BOZ	e(P)	04 27 27
HH	iP	04 27 01
NEL	iP	04 27 56.0
	e	28 33
TUC	eP	04 28 33
Dec. 13		
BC	eP	05 41 01
NEL	iP	05 40 58.7
Dec. 13		
COL	iP	06 13 19
	i	13 28
HH	eP	06 16 32
NEL	iP	06 17 43.3
	e	17 57
Dec. 13		
COL	eP	09 32 32
Dec. 13		
BC	e(P)	09 43 04
HH	e(P)	09 41 21
NEL	iP	09 43 04.1
	i	43 23.6
Dec. 13		
COL	eP	11 07 04
Dec. 13		
MONT	eP	11 35 25
Dec. 13		
BC	iP	12 56 41.9
BOZ	eP	12 57 22
BUT	eP	12 57 18
COL	eP	12 57 16
	iP	57 18
	e	57 30
HH	e(P)	12 57 21
NEL	iP	12 56 40.5
SLC	e(P)	12 57 06
TUC	iP	12 56 47
Dec. 13		
COL	iP	13 25 52
Dec. 13		
COL	eP	13 27 41
Dec. 13		
HH	e(P)	14 14 22

Date and Station		Phase (GCT) h m s
Dec. 13		
HH	eP	14 22 04
Dec. 13		
HH	eP	15 25 10
Dec. 13		
MONT	iP	16 12 07
Dec. 13		
BC	eP	16 14 56
	iP	14 59.0
	i	15 24.5
BOZ	eP	16 16 04
BUT	eP	16 16 09
COL	iP	16 19 45
HH	iP	16 16 32
MONT	eP	16 19 21
NEL	iP	16 14 53.9
	i	15 11.8
	i	15 22.0
	i	15 38.8
TUC	eP	16 14 00
	ePP	14 19
	eL	18 33
Dec. 13		
COL	iP	16 23 40
	e	23 54
HH	i(P)	16 22 53
Dec. 13		
COL	eP	20 18 51
	e	19 27
NEL	eP	20 14 32
Dec. 13		
COL	iP	20 50 41
Dec. 13		
BC	eP'	22 57 24
COL	eP	22 51 29
HH	eP'	22 57 04
	e	57 24
NEL	eP'	22 57 25
	ePKKP	23 08 26
MONT	eP'	22 58 43
SJ	e(P')	22 59 09
Dec. 13		
HH	iP	23 13 47
Dec. 14		
NEL	eP	01 10 11
	e	11 13

Date and Station		Phase (GCT) h m s
TUC	eP	01 10 10
Dec. 14		
BH	iP	01 22 45
	eS	23 55
BC	iP	01 29 13.2
HH	iP	01 30 17
NEL	iP	01 29 11.7
	e	29 17
SJ	iP	01 26 04
Dec. 14		
COL	iP	02 04 50
HH	e(P)	02 04 53
NEL	eP	02 04 07
	iP	04 15.9
TUC	eP	02 04 10
Dec. 14		
HH	e(P)	04 02 17
Dec. 14		
COL	eP	04 54 06
Dec. 14		
BOZ	e(P)	06 23 08
BUT	e(P)	06 23 11
HH	eP	06 23 01
	e	26 48
NEL	iP	06 23 23.9
	e	24 16
TUC	e	06 28 22
Dec. 14		
COL	eP	08 29 33
Dec. 14		
COL	iP	09 19 18
Dec. 14		
COL	eP	11 05 20
Dec. 14		
COL	eP	12 10 28
Dec. 14		
MONT	eP	12 38 41
Dec. 14		
NEL	eP	15 17 56
Dec. 14		
BOZ	e(P)	17 19 56
BUT	eP	17 19 42
HH	eP	17 19 45

Date and Station		Phase	h m s
NEL		iP	17 19 30.4
		i	19 43.4
TUC		eP	17 20 38
Dec. 14			
COL		iP	17 25 53
		i	25 59
HH		i(P)	17 31 28
Dec. 14			
HH		e(P)	18 48 23
Dec. 14			
COL		iP	20 49 14
HH		e(P)	20 50 57
Dec. 14			
COL		eP	22 15 09
		i	15 19
Dec. 14			
COL		eP	23 09 19
Dec. 15			
COL		eP	02 10 58
Dec. 15			
BUT		eP	02 48 37
COL		iP	02 48 33
HH		eP	02 48 39
NEL		iP	02 48 04.6
TUC		iP	02 48 11
Dec. 15			
COL		eP	03 54 12
Dec. 15			
BUT		e(P)	06 34 54
HH		e(P)	06 35 43
SLC		e(P)	06 33 27
Dec. 15			
UK		eP	11 08 14
		iS	09 01
		iL	09 14
Dec. 15			
COL		eP	12 27 44
NEL		eP	12 27 05
Dec. 15			
COL		iP	14 04 11
Dec. 15			
BH		iP	14 05 35
		iS	05 51
MONT		iP	14 11 04

Date and Station		Phase	h m s
Dec. 15			
COL		iP	21 29 37
Dec. 15			
MONT		iP	22 59 58
Dec. 15			
COL		e(P)	23 48 02
		e	48 16
HH		iP	23 48 39
Dec. 16			
NEL		iP	01 34 19.9
		ipP	35 01.0
Dec. 16			
COL		iP	03 21 09
Dec. 16			
BUT		e	05 58 14
HH		e(P)	05 55 12
Dec. 16			
COL		eP	06 28 48
Dec. 16			
COL		eP	06 55 38
Dec. 16			
BC		eP	07 10 24
		iP	10 25.2
		e	10 51
		iPP	13 32.9
BOZ		eP	07 11 04
		e	11 32
BUT		iP	07 11 01
COL		iP	07 11 05
		e	16 06
		e	18 04
HH		iP	07 11 03
		iPP	14 37
		ePKKP	28 32
LOG		eP	07 10 53
MONT		eP	07 11 20
		iP	11 23
		iPP	15 08
NEL		eP	07 10 22
		i	10 24.5
		i	10 34.8
		iPP	13 32
		i	13 50
SJ		ePS	07 27 04
		eSS	33 31
		eL	57 12
SLC		eP	07 10 48
TUC		eP	07 10 25
		iP	10 28

Date and Station		Phase	h m s
TUC		i	07 11 08
Dec. 16			
BC		iP	07 26 56.0
NEL		eP	07 28 53
Dec. 16			
BC		eP	07 36 58
BUT		e(P)	07 38 07
NEL		e(P)	07 37 01
Dec. 16			
HH		e(P)	10 18 20
Dec. 16			
COL		iP	10 57 08
Dec. 16			
BH		eP	11 15 39
		eS	23 07
BC		iP	11 08 17.2D
BOZ		iP	11 09 15C
		iS	10 43
		iL	10 48
BUT		iP	11 09 10C
		iS	10 54
		iL	11 02
CHI		iP	11 12 19W
		iS	16 32
		i	17 58
		iL	18 09
COL		eP	11 13 30
		iP	13 31D
		iS	18 19
		iL	20 42
COLU		eP	11 13 22C
		iP	13 23
		i	14 07
		iS	18 20
		iL	20 10
HONO		eP	11 14 34
		i	14 44
		e	16 50
		e	19 13
		eS	20 31
		i	20 46
		i	22 20
		eL	23 08

T_S = 8 sec. A = 3mm.
T_L = 17 sec. $A_{max.}$ = 100mm.

Date and Station		Phase	h m s
HH		iP	11 09 32C
LIN		iP	11 10 59
		i	12 44
		iS	14 13
		i	14 29
		iL	14 56

Date and Station		Phase	h m s
LOG		iP	11 08 35D
MONT		eP	11 19 05C
		e	29 49
		e	38 15
		e	44 52
		e	46 29
NEL		iP	11 08 20.1D
SLC		iP	11 08 29C
SJ		eP	11 16 04
		iP	16 06
		e	17 57
		e	18 04
		e	19 01
		eS	23 12
		i	25 50
		eL	27 21
STT		iP	11 11 58
		eS	15 01
		iS	15 02
		iL	15 59
TUC		eP	11 09 27C
		iP	09 28C
		i	10 02
		iS	11 15
		iL	11 35
UK		eP	11 08 13
		iP	08 15
		iS	09 00
WASH		iP	11 13 42
Dec. 16			
MONT		iP	11 23 23
SJ		eP	11 20 22
		i	20 35
Dec. 16			
COL		iP	11 17 51
Dec. 16			
MONT		e(P)	11 50 41
HH		i(P)	11 55 03
Dec. 16			
HH		i(P)	12 01 31
		iL	04 04
Dec. 16			
COL		iP	12 08 18
Dec. 16			
COL		eP	12 18 03
HH		iP	12 15 16
Dec. 16			
SLC		eP	12 42 42
		eS	43 41
		eL	43 45

Date and Station		Phase (GCT)
		h m s
Dec. 16		
BUT	i(P)	12 51 27
COL	iP	12 55 36
SLC	eP	12 49 59
	eS	51 01
	eL	51 05
Dec. 16		
HH	iP	13 10 01
Dec. 16		
COL	iP	13 21 23
Dec. 16		
BOZ	eP	13 17 06
	i	18 03
	iS	18 33
	iL	18 40
BUT	iP	13 17 08
	eS	19 11
	eL	19 29
HH	eP	13 17 24
	iL	20 01
LOG	eP	13 16 27
	i	17 30
	iL	17 46
SLC	eP	13 16 35
	eS	17 36
	eL	17 42
TUC	eP	13 17 23
Dec. 16		
COL	iP	13 24 18
Dec. 16		
COL	iP	13 31 00
SLC	eP	13 27 19
	eS	28 20
	eL	28 26
Dec. 16		
BOZ	eP	14 19 02
	eS	20 31
	eL	20 40
BUT	eP	14 18 55
	eS	21 01
	eL	21 22
COL	iP	14 23 16
HH	eP	14 19 18
LOG	eP	14 18 22
	i	18 34
	i	19 26
	iL	19 45
NEL	eP	14 18 09
	iP	18 12
SLC	eP	14 18 18
	eS	19 19
	eL	19 24
Dec. 16		
COL	iP	14 26 13
Dec. 16		
COL	eP	14 29 28
Dec. 16		
COL	iP	15 12 38
Dec. 16		
COL	eP	15 18 58
Dec. 16		
BOZ	eP	15 11 44
	e(S)	13 17
	eL	13 25
BUT	eP	15 11 41
	i	12 11
	i	12 38
	iS	13 27
	iL	13 50
COL	iP	15 16 02
HH	iP	15 12 04
	iL	14 42
LOG	eP	15 11 06
	i	11 26
	iL	12 35
SLC	eP	15 11 04
	eS	12 01
	eL	12 05
Dec. 16		
BOZ	eP	16 02 06
	eS	03 33
	eL	03 41
BUT	e(P)	16 02 14
	eS	04 07
	eL	04 18
HH	eP	16 02 26
	iL	04 57
Dec. 16		
BUT	iP	16 09 10
	i	09 46
	i(S)	10 55
	iL	11 16
Dec. 16		
BUT	e(P)	16 29 27
	eS	31 19
	eL	31 25
Dec. 16		
BUT	e(P)	16 41 43
HH	eP	16 41 57
	iL	44 42
Dec. 16		
BH	eP	19 04 12
	eS	04 52
HH	eP	19 11 51
MONT	eP	19 09 55
SJ	eP	19 07 36
	iP	07 39
Dec. 16		
BOZ	e(P)	19 12 56
	eS	15 04
	eL	15 23
HH	eP	19 13 15
	eL	15 49
Dec. 16		
COL	eP	19 17 14
Dec. 16		
HH	eP	19 42 12
	eL	44 49
Dec. 16		
MONT	eP	19 52 44
Dec. 16		
HH	eP	21 38 07
	eL	40 45
Dec. 16		
BOZ	e(P)	21 50 41
	eS	52 51
	eL	53 07
BUT	e(P)	21 50 09
	eS	51 51
	eL	51 57
HH	e(P)	21 51 03
	eL	53 45
SLC	iP	21 50 19
	iS	51 20
	eL	51 26
Dec. 17		
COL	iP	00 52 18
	i	52 31
	i	52 45
Dec. 17		
COL	iP	04 37 36
	e	41 17
HH	eP	04 33 14
	eL	35 36
NEL	eP	04 32 26
Dec. 17		
BC	eP	05 36 31
	i	36 45.3
BOZ	eP	05 38 16
HH	iP	05 38 45
LOG	eP	05 37 35
NEL	eP	05 36 26
	i	36 36.8
	e	36 51
SLC	iP	05 37 23
	eL	42 44
TUC	eP	05 34 25
Dec. 17		
COL	eP	05 42 09
	ipP	42 36
HH	iP	05 44 38
Dec. 17		
NEL	eP	07 10 23
	iP	10 25.5
	i	10 55.7
	i	12 27.5
Dec. 17		
HH	eP	07 34 28
	eL	37 00
Dec. 17		
NEL	eP	08 26 03
	e	27 45
Dec. 17		
NEL	iP	09 21 12.7
Dec. 17		
COL	eP	09 44 49
Dec. 17		
COL	iP	10 07 13
Dec. 17		
HH	eP	10 17 52
	iL	20 15
LOG	eP	10 16 45
	e	17 07
	eL	18 21
Dec. 17		
BUT	eP	10 29 36
	eS	31 20
	eL	31 30
Dec. 17		
BOZ	eP	10 36 04
	eS	38 03
	eL	38 21
BUT	e(P)	10 35 29
	eS	37 21
	eL	37 34
HH	e(P)	10 35 52
	i	36 26
	eL	38 20

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Date and Station	Phase	(GCT) h m s
LOG	e(P)	10 34 54
	e	35 14
	eL	36 09
Dec. 17 HH	eP	10 55 00
	i	55 41
	eL	57 31
Dec. 17 COL	eP	11 36 03
Dec. 17 NEL	eP	12 39 44
Dec. 17 BOZ	eP	12 48 11
	eS	50 15
	eL	50 28
HH	eP	12 48 16
	e	50 11
	eL	50 29
Dec. 17 COL	eP	13 15 58
Dec. 17 WASH	e	15 29 25
	e	30 36
Dec. 17 BUT	e(P)	17 27 38
Dec. 17 BOZ	eP	20 29 05
	i	29 35
	eS	31 15
	eL	31 23
BUT	eP	20 29 01
	e(S)	31 00
	eL	31 17
HH	eP	20 29 23
	iL	32 04
LOG	eP	20 28 24
	i	28 46
	eL	29 41
Dec. 17 NEL	eP	21 08 07
Dec. 17 COL	iP	22 02 44
NEL	eP	22 02 17
Dec. 17 COL	eP	22 56 23
Dec. 17 COL	eP	23 04 30
Dec. 17 COL	iP	23 36 47
Dec. 17 BOZ	e(P)	23 52 31
BUT	e(P)	23 52 28
	e	54 05
	eS	54 22
	eL	54 46
HH	eP	23 52 30
	iL	55 00
Dec. 18 BOZ	eP	01 48 01
	eS	50 02
	eL	50 14
BUT	eP	01 47 50
	e	48 09
	eS	49 42
	eL	49 57
COL	eP	01 51 57
HH	eP	01 47 57
	eL	50 34
LOG	e(P)	01 47 01
	e	47 19
	e	48 07
	eL	48 21
NEL	iP	01 46 49
SLC	eP	01 46 57
	eS	47 58
	eL	48 09
Dec. 18 COL	iP	02 02 05
Dec. 18 BOZ	eP	06 09 10
BUT	eP	06 09 35
	e(S)	11 21
	eL	11 36
Dec. 18 BUT	eP	06 28 11
	eS	30 05
	eL	30 20
Dec. 18 SLC	eP	06 47 03
Dec. 18 BC	eP	09 46 41
NEL	iP	09 46 47.5
	e	46 56
Dec. 18 BC	iP	10 34 56.4
	ipP	35 52.5
	i	37 36.8
Dec. 18 COL	iP	11 46 11
HH	e(P)	11 46 53
Dec. 18 BUT	eP	11 59 36
COL	eP	12 00 38
Dec. 18 COL	iP	12 33 06
	i	33 15
Dec. 18 NEL	eP	12 58 59
Dec. 18 COL	eP	14 47 21
Dec. 18 COL	eP	14 59 42
Dec. 18 HH	eP	15 37 29
Dec. 18 HH	e(P)	15 43 43
Dec. 18 COL	iP	15 57 50
	i	58 00
Dec. 18 COL	eP	16 17 17
Dec. 18 COL	iP	18 26 49
Dec. 18 NEL	iP	19 08 55.3
	e	10 57
Dec. 18 BOZ	eP	19 34 25
HH	eP	19 34 31
Dec. 18 HH	eP	20 04 11
Dec. 18 COL	iP	20 51 38
Dec. 18 HH	eP	22 28 00
Dec. 19 HH	eP	01 04 32
Dec. 19 HH	eP	02 23 43
Dec. 19 COL	iP	03 35 12
Dec. 19 BOZ	eP	04 02 10
	eS	04 13
	eL	04 30
HH	eP	04 02 23
	i	04 58
LOG	e(P)	04 01 20
	i	01 42
	e	02 16
	eL	02 51
Dec. 19 COL	eP	05 21 22
HH	iP	05 23 18
MONT	e(P')	05 30 36
NEL	iP	05 23 34.9
	e(pP)	24 05
Dec. 19 MONT	eP	06 11 45
SJ	eP	06 13 12
Dec. 19 COL	iP	06 45 28
HH	iP	06 48 51
	i	51 52
Dec. 19 COL	iP	07 02 48
Dec. 19 HH	eP	07 19 20
Dec. 19 BH	eP	09 56 50
	iS	57 38
HH	eP	10 05 45
Dec. 19 BH	eP	10 30 09
	eL	40 05
BOZ	iP	10 35 250
	i	36 04
	ipP	36 24
	isP	36 41
	iPP	38 36
	iS	45 08
	epS	45 50
	i	46 48
	ePPS	47 13
	eSS	50 24
	e	52 10
	eL	55 14
BUT	iP	10 35 290
	ipP	36 28
	isP	36 48
	e(PP)	38 35
	iS	45 19
	i(SoS)	45 36
	esS	46 29
	e	46 52
	i	47 05
	eSS	51 04

Date and Station		Phase (GCT)
		h m s
BUT	e	10 55 24
	eL	57 27
CHI	iS	10 42 42
	iScS	43 46
	e	48 58
	eSSS	50 44
	eL	51 36
COL	iP	10 37 32D
	i	39 15
	iPP	42 04
COLU	iP	10 33 13D
	ipP	34 12
	i(PP)	35 03
	iS	40 56
	i	41 16
	isS	42 23
	i	43 05
	i(SS)	44 23
	eL	47 38
HH	iP	10 35 41
	ipP	36 44
	iS	45 41
	eP'P'	11 02 15
LOG	iP	10 35 11D
	i	35 42
	ipP	36 16
	eS	44 41
	e	45 10
MONT	iP	10 24 24C
NEL	iP	10 34 55.4D
	ipP	35 54.5
	i	36 59.4
	i(PP)	37 44.6
	iS	44 16.5
	iP'P'	11 02 16.7
PHIL	iS	10 42 54
	isS	43 13
	e	45 03
	eSS	46 04
	eL	49 24
RC	eP	10 35 13
	epP	36 11
	e	37 43
	ePP	38 06
	iS	44 27
	e(PS)	45 13
	ePPS	46 10
	e(SS)	48 55
SLC	iP	10 35 06C
	i	35 28
	ipP	36 11
	isP	36 27
	epPP	38 53
	e	40 56
	eS	44 32
	eScS	44 59
	e	45 31
	e	46 13

Date and Station		Phase (GCT)
		h m s
SLC	ePPS	10 46 21
	eSS	49 31
	esSS	51 24
	eSSS	53 08
	eL	54 51
SJ	iP	10 31 02C
	ipP	31 58
	ePP	32 53
	iPcS	36 47
	eS	36 48
	iS	36 51
	esS	38 16
	isS	40 08
	iL	40 27
TUC	iP	10 34 26D
	ePPP	38 50
	i	40 09
	eS	43 17
	iS	43 18
	i	44 09
	isS	44 49
	eL	51 20
	eP'P'	11 02 34
WASH	iP	10 33 42C
	iPcP	34 22
	epP	34 36
	isP	35 02
	i	35 25
	esS	43 18
	eL	11 01 22
Dec. 19		
HH	eP	12 51 31
Dec. 19		
COL	iP	16 43 43
HH	iP	16 44 27
Dec. 19		
HH	e(P)	18 10 50
Dec. 19		
NEL	e(P)	19 07 43
Dec. 19		
COL	iP	22 12 03
Dec. 19		
HH	iP	23 31 37
Dec. 20		
HH	e(P)	00 44 38
Dec. 20		
BC	iP	01 50 03.7
	i	50 09.3
	i	50 39.5
BOZ	eP	01 50 36
BUT	iP	01 50 41
	i	50 46
	i	51 09

Date and Station		Phase (GCT)
		h m s
COL	eP	01 56 35
HH	iP	01 50 52
LOG	eP	01 50 21
MONT	iP	01 40 18
	i(S)	42 12
	iL	42 43
NEL	iP	01 50 02.1
	i	50 23.4
	i	50 40.5
SJ	eP	01 46 56
TUC	iP	01 49 35
	i	50 01
WASH	e(P)	01 49 19
Dec. 20		
BOZ	e(P)	02 29 37
	eL	31 52
BUT	eP	02 29 51
	eS	31 33
	eL	31 43
HH	e(P)	02 29 54
	eL	32 21
NEL	eP	02 28 45
	i	28 48
	iP	28 55
	iS	29 59
SLC	eP	02 28 52
	e(S)	30 30
	eL	30 34
Dec. 20		
HH	eP	03 04 09
Dec. 20		
MONT	eP	03 27 55
Dec. 20		
HH	e(P)	06 04 03
Dec. 20		
NEL	eP	06 42 06
Dec. 20		
HH	e(P)	07 37 03
Dec. 20		
HH	eP	07 38 37
Dec. 20		
HH	eP	09 00 56
Dec. 20		
BC	iP	09 47 53.4
COL	iP	09 47 49
NEL	iP	09 47 52.4

Date and Station		Phase (GCT)
		h m s
Dec. 20		
NEL	eP	10 36 59
Dec. 20		
BC	eP	12 03 56
MONT	eP	12 00 41
NEL	eP	12 03 53
TUC	eP	12 03 42
Dec. 20		
HH	eP	12 32 19
Dec. 20		
COL	iP	12 43 37
	epP	45 42
HH	eP	12 43 46
NEL	iP	12 43 12.6
TUC	iP	12 43 21
Dec. 20		
NEL	iP	13 58 52
	i	59 48
Dec. 20		
NEL	eP	14 31 13
	e	31 45
Dec. 20		
NEL	eP	15 32 02
Dec. 20		
BOZ	e(P)	15 51 34
BUT	eP	15 50 28
	e	51 30
	e(S)	52 33
	eL	52 54
HH	eP	15 51 22
	eL	54 06
NEL	iP	15 50 00.0
Dec. 20		
COL	eP	16 48 15
HH	e(P)	16 49 22
Dec. 20		
BOZ	e(P)	17 38 46
	iP	39 08
	iS	41 06
	iL	41 19
BUT	eP	17 38 40
	iS	40 43
	eL	40 52
COL	eP	17 43 17
HH	eP	17 39 02
	i	39 38

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Date and Station		Phase	(GCT) h m s
HH		iL	17 41 29
LOG		eP	17 38 07
		i	38 24
		iL	39 25
MONT		eP	17 48 46
SLC		eP	17 38 02
		eS	39 45
		eL	39 51
TUC		eP	17 39 11
		i	39 44
		iL	42 53
Dec. 20			
BC		iP	17 48 21.0
		i	48 24.8
BOZ		eP	17 49 04
COL		iP	17 49 03
HH		eP	17 48 59
MONT		eP	17 49 19
NEL		eP	17 48 13
		iP	48 20.0
		i	48 38.8
		i	48 54.3
		i	49 05.9
TUC		eP	17 48 24
Dec. 20			
COL		iP	19 03 34
Dec. 20			
NEL		eP	20 27 52
Dec. 20			
COL		iP	20 52 21
HH		iP	20 54 38
Dec. 20			
HH		e(P)	21 50 20
Dec. 20			
COL		iP	23 14 04
Dec. 20			
COL		iP	23 18 45
NEL		eP	23 22 40
Dec. 21			
COL		iP	01 33 46
HH		e(P)	01 35 49
Dec. 21			
COL		eP	02 59 23
Dec. 21			
COL		eP	04 25 50

Date and Station		Phase	(GCT) h m s
Dec. 21			
HH		iP	04 54 00
NEL		iP	04 54 31.4
Dec. 21			
COL		eP	05 16 15
NEL		eP	05 20 46
Dec. 21			
HH		e(P)	05 31 34
Dec. 21			
COL		eP	06 32 11
		e	33 08
Dec. 21			
COL		eP	08 39 25
Dec. 21			
BC		iP	10 12 16.4
BOZ		e(P)	10 13 03
COL		iP	10 16 30
		e	16 48
		ipP	17 07
HH		e(P)	10 13 31
MONT		iP	10 13 57
NEL		iP	10 12 14.9
		i	12 21.1
		i	12 29.4
SLC		eP	10 12 31
TUC		eP	10 11 32
Dec. 21			
HH		eP	10 15 38
		e	15 55
NEL		eP	10 15 10
		e	15 30
Dec. 21			
COL		iP	12 09 46
HH		iP	12 11 06
		i	14 25
MONT		eP'	12 16 48
NEL		iP	12 11 05
SJ		eP'	12 17 00
Dec. 21			
HH		e(P)	12 52 17
		eL	54 13
Dec. 21			
BH		eP	17 44 10
		iS	44 52

Date and Station		Phase	(GCT) h m s
Dec. 21			
NEL		eP	18 18 06
Dec. 21			
NEL		eP	18 40 07
Dec. 21			
COL		iP	19 28 43
Dec. 21			
BH		eP	20 05 25
BC		iP	19 58 35.5D
		i	59 11.7
		iL	20 00 34.0
BOZ		iP	19(58)(44)D
		eS	2C(00)(33)
		eL	(00)(40)
BUT		iP	19 58 50D
		i(S)	20 00 40
		iL	00 48
CHI		iP	20 02 08E
		ePP	02 53
		eS	06 35
		e	07 00
		iL	08 13
COL		iP	20 02 17C
		iS	06 58
		iL	07 48
COLU		iP	20 03 13C
		iPP	04 20
		eS	08 34
		iS	08 35
		eL	11 05
HONC		eP	20 03 21
		iPcP	05 40
		eS	08 55
		eL	11 46

T_{PP} = 4 sec. A = 2.5mm.
T_S = 6 sec. A= 2.5mm.
T_L = 13 sec. $A_{max.}$ =19mm.

HH		iP	19 58 57C
LOG		iP	19 58 45C
		iL	20 01 26
MONT		iP	20 08 45C
		ePP	11 46
		eP'P'	35 28
NEL		iP	19 58 37.8C
		i	58 38.8
PHIL		iP	20 03 29E
		ePP	04 42
		eS	08 59
		eL	12 20
SLC		iP	19 58 44D
		i(S)	20 00 30

Date and Station		Phase	(GCT) h m s
SLC		iL	20 00 39
SJ		iP	20 05 52C
		eS	13 26
		eScS	15 42
		eSS	17 16
		eL	18 20
SIT		eP	20 00 32
		iP	00 35 N,W
		iS	04 05
		iL	05 00
TUC		iP	19 59 45C
		i(S)	20 02 25
		iL	03 12
UK		iP	19 56 58
		i	57 16
Dec. 21			
BC		iP	21 18 53.0
		i	19 13.9
NEL		iP	21 19 00.3
Dec. 21			
BC		iP	22 16 34.8
BUT		eP	22 16 25
COL		iP	22 14 14
HH		iP	22 16 15
MONT		eP'	22 23 42
NEL		iP	22 16 34.7
		i	16 54.1
		i	17 08.9
Dec. 21			
NEL		iP	22 56 20.1
Dec. 21			
HH		eP	23 34 39
		iL	37 15
TUC		eP	23 35 20
Dec. 22			
HH		e(P)	00 06 25
Dec. 22			
HH		e(P)	00 33 24
Dec. 22			
BH		iP	01 06 39
		iS	07 20
HH		e(P)	01 14 35
SJ		e(P)	01 10 15
Dec. 22			
COL		iP	01 50 25

Date and Station		Phase (GCT)
		h m s
Dec. 22		
NEL	eP	03 11 35
Dec. 22		
HH	e(P)	03 16 27
Dec. 22		
NEL	eP	03 26 00
	e	26 43
Dec. 22		
BOZ	eP	03(58)(16)
	eS	04(00)(11)
	eL	(00)(29)
HH	e(P)	04 00 45
	eL	03 10
SLC	eP	03 59 50
	i	04 01 03
	iS	01 52
	eL	02 03
Dec. 22		
BC	iP	04 31 38.4
	i	32 14.3
COL	iP	04 30 37
HH	eP	04 31 43
	ePP	35 35
NEL	iP	04 31 38.1
	e	32 00
SJ	e(P')	04 37 46
	ePKS	41 13
TUC	eP	04 31 54
Dec. 22		
COL	iP	07 00 14
	e	00 27
HH	eP	06 59 26
Dec. 22		
BOZ	eP	07(14)(08)
	eS	(16)(01)
	eL	(16)(13)
HH	e(P)	07 16 37
	eL	19 09
SLC	eP	07 15 33
	i(S)	17 32
	eL	17 42
Dec. 22		
HH	e(P)	08 11 25
Dec. 22		
COL	eP	09 43 12
	e	43 27
Dec. 22		
COL	iP	09 56 20
	e	56 51

Date and Station		Phase (GCT)
		h m s
Dec. 22		
SJ	iP	10 04 24
Dec. 22		
BC	iP	10 40 20.5
	iS	41 25.4
BOZ	eP	10(38)(55)
	eS	(41)(02)
	eL	(41)(20)
BUT	eP	10 41 24
	e(S)	43 22
	eL	43 34
HH	eP	10 41 46
	iL	44 32
LOG	eP	10 40 48
	e	41 06
	eL	42 20
NEL	eP	10 40 24
	iP	40 35.6
TUC	e(P)	10 41 30
	iL	43 56
Dec. 22		
COL	iP	13 09 16
Dec. 22		
COL	iP	16 46 44
Dec. 22		
HH	eP	17 49 18
Dec. 22		
HH	e(P)	17 53 19
Dec. 22		
HH	eP	18 54 23
Dec. 22		
COL	iP	19 29 19
Dec. 22		
HH	e(P)	19 50 20
Dec. 22		
COL	eP	21 04 08
Dec. 22		
HH	e(P)	22 51 32
Dec. 22		
HH	e(P)	23 09 23
	e	09 35
Dec. 23		
HH	e(P)	01 08 20
	e	08 31
Dec. 23		
HH	e(P)	02 59 30
Dec. 23		
COL	iP	03 16 53

Date and Station		Phase (GCT)
		h m s
Dec. 23		
COL	iP	12 01 29
NEL	eP	12 00 57
Dec. 23		
BC	iP	12 06 47.0
BOZ	e(P)	12(05)(05)
HH	e(P)	12 08 04
NEL	iP	12 06 45.7
TUC	eP	12 06 02
Dec. 23		
COL	eP	12 16 05
Dec. 23		
COL	eP	15 03 08
Dec. 23		
BC	eP	16 40 50
BOZ	eP	16 39(39)
COL	iP	16 39 14
HH	iP	16 39 58
	ePP	43 17
NEL	eP	16 40 48
SLC	eP	16 40 23
SJ	eP	16 39 20
Dec. 23		
HH	eP	16 45 36
TUC	eL	17 24 56
Dec. 23		
HH	eP	20 31 34
Dec. 23		
HH	eP	21 21 59
	iL	24 53
TUC	e(P)	21 24 29
Dec. 23		
COL	e(P)	21 31 48
Dec. 23		
SLC	eP	22 10 39
	e	11 13
TUC	e(P)	22 14 01
Dec. 24		
BC	iP	00 34 12.0
COL	iP	00 38 29
HH	eP	00 35 29

Date and Station		Phase (GCT)
		h m s
NEL	iP	00 34 10.4
TUC	eP	00 33 27
Dec. 24		
COL	eP	00 47 59
Dec. 24		
BC	iP	01 08 51.6
	ipP	09 25.4
	iPP	12 17.7
BOZ	iP	01 09 15
	ipP	09 49
BUT	iP	01 09 12
	epP	09 53
COL	iP	01 08 25
	ipP	09 01
	i	10 31
HH	iP	01 09 08
	ePP	12 36
NEL	iP	01 08 51.0
	i	09 06.5
	ipP	09 22.5
	iPP	12 16.5
SLC	iP	01 09 07
	ipP	09 42
SJ	iP'	01 15 10
TUC	iP	01 09 03
Dec. 24		
HH	e(P)	01 21 07
Dec. 24		
HH	e(P)	01 26 31
Dec. 24		
HH	i(P)	01 33 30
Dec. 24		
HH	e(P)	01 34 35
Dec. 24		
NEL	eP	01 45 33
Dec. 24		
NEL	e(P)	01 55 57
Dec. 24		
BH	iP	02 43 58
	iS	44 11
Dec. 24		
BOZ	eP	02(42)(14)
BUT	e(P)	02 47 08
COL	iP	02 44 32
HH	iP	02 46 54

Date and Station		Phase	(GCT) h m s
MONT		eP'	02 54 56
NEL		iP	02 47 25.7
		e	47 47
Dec. 24 BC		iP	04 10 44.2
COL		iP	04 15 26
		i(pP)	15 48
HH		e(P)	04 12 14
NEL		iP	04 10 40.9
TUC		eP	04 09 50
		e	10 10
Dec. 24 COL		iP	04 57 07
		ipP	57 20
Dec. 24 COL		eP	05 26 12
Dec. 24 NEL		eP	10 31 16
Dec. 24 COL		eP	11 41 12
HH		e(P)	11 45 59
Dec. 24 COL		eP	11 47 44
HH		e(P)	11 49 50
Dec. 24 BC		iP	12 31 43.7
		i	31 51.7
		eL	40 06
BUT		iP	12 32 46
		e	32 55
COL		iP	12 36 15
		i	36 22
		ePcP	37 02
COLU		eP	12 31 10
HH		iP	12 33 08
MONT		iP	12 34 49
NEL		iP	12 31 41.7
		i	31 50.1
		e	32 05
SLC		eP	12 32 04
TUC		iP	12 30 53
		eL	37 18
Dec. 24 BOZ		e(P)	20 05 30
		eS	07 48
BOZ		eL	20 08 06
Dec. 24 COL		eP	20 06 26
HH		e(P)	20 09 06
Dec. 24 COL		iP	20 55 07
Dec. 24 BH		eP	22 09 38
		iS	10 33
Dec. 24 NEL		eP	22 50 06
Dec. 25 BOZ		e(P)	01(34)36
		i	(34)50
BUT		eP	01 34 22
COL		iP	01 35 58
		eS	39 40
		eL	41 45
HH		eP	01 33 57
		e	36 37
		eL	37 18
LOG		eP	01 34 58
MONT		eP	01 25 23
NEL		eP	01 35 35
		i	35 38
SLC		e(P)	01 35 04
		i	35 11
TUC		eP	01 36 26
Dec. 25 COL		eP	02 00 27
		iP	00 34
		iS	01 03
Dec. 25 COL		iP	03 14 32
Dec. 25 COL		iP	05 48 24
		ipP	49 11
Dec. 25 COL		iP	08 57 59
Dec. 25 HH		e(P)	09 34 20
Dec. 25 BC		eP	09 54 21
NEL		e(P)	09 54 16
Dec. 25 NEL		eP	10 49 06
NEL		i	10 49 13.3
Dec. 25 COL		iP	13 43 05
Dec. 25 BH		iP	13 54 39
		iS	54 50
Dec. 25 COL		eP	14 23 55
Dec. 25 COL		iP	14 27 29
Dec. 25 NEL		iP	18 54 38
Dec. 25 COL		iP	19 26 32
Dec. 25 HH		e(P)	20 14 04
Dec. 25 BC		eP	21 23 40
COL		iP	21 19 43
HH		e(P)	21 22 56
MONT		iP	21 27 12
NEL		eP	21 23 41
		e	23 56
Dec. 25 BC		eP	22 23 11
MONT		eP	22 24 03
NEL		eP	22 23 13
Dec. 25 NEL		iP	23 02 39
Dec. 25 COL		iP	23 12 16
Dec. 25 COL		iP	23 14 33
		i	15 27
Dec. 26 MONT		eP	00 11 30
Dec. 26 BC		iP	03 53 07.3
		i	53 23.3
		ipP	54 00.6
		i	54 15.4
BOZ		eP	03 52 51
		epP	53 44
BUT		eP	03 52 53
		i	53 09
		ipP	53 49
BUT		i	03 54 02
COL		iP	03 50 14
		ipP	51 07
HH		iP	03 52 35
		ipP	53 28
LOG		e(P)	03 53 08
		epP	53 58
MONT		eP'	04 00 39
		ipP'	01 45
NEL		iP	03 53 07.6
		i	53 22.9
		ipP	53 55.2
		i	54 16.0
SLC		eP	03 53 05
		ipP	54 00
		i	54 12
TUC		eP	03 53 28
		epP	54 24
		eL	04 27 00
Dec. 26 HH		eP	04 23 07
Dec. 26 SJ		iP	05 41 41
Dec. 26 BC		e(P)	08 20 08
MONT		iP	08 14 03
NEL		iP	08 19 59.7
Dec. 26 BC		iP	09 58 35.4
		i	58 51.5
BOZ		eP	10 00 17
BUT		e(P)	10 00 36
HH		eP	10 00 44
LOG		e(P)	09 59 37
NEL		iP	09 58 30.8
SLC		eP	09 59 24
TUC		eP	09 57 29
		eL	59 56
Dec. 26 HH		iP	13 33 31
Dec. 26 BC		eP	13 45 43
NEL		eP	13 45 20

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Date and Station		Phase (GCT)
		h m s
Dec. 26		
NEL	eP	14 04 44
	e	05 34
Dec. 26		
HH	eP	15 49 30
NEL	eP	15 49 59
Dec. 26		
HH	e(P)	17 09 19
Dec. 26		
NEL	iP	17 31 48.7
Dec. 26		
BC	eP	18 16 40
BOZ	eP	18 17 30
BUT	eP	18 17 37
COL	eP	18 20 56
COLU	iP	18 15 29
	i	15 39
HH	e(P)	18 17 58
	e	19 57
	i	20 13
MONT	eP	18 18 06
NEL	iP	18 16 47.9
	i	17 01.8
	i	17 19.6
TUC	eP	18 16 06
Dec. 26		
COL	eP	19 12 30
	i	12 35
HH	iP	19 16 02
Dec. 26		
COL	iP	19 44 20
HH	e(P)	19 44 39
TUC	eP	19 44 01
Dec. 26		
BOZ	eP	20 40 10
HH	e(P)	20 40 26
Dec. 26		
BC	iP	21 19 16.6
NEL	eP	21 17 40
Dec. 26		
COL	eP	21 59 23
Dec. 27		
HH	e(P)	01 48 38

Date and Station		Phase (GCT)
		h m s
Dec. 27		
HH	e(P)	03 25 58
Dec. 27		
BOZ	e(P)	04 28 53
HH	eP	04 29 10
	e	29 27
LOG	e	04 26 11
	eL	27 11
Dec. 27		
HH	e(P)	04 55 26
NEL	eP	04 48 03
Dec. 27		
BC	iP	05 44 12.0
	i	44 30.7
	ipP	46 07.5
BOZ	iP	05 44 49
	iPP	48 25
BUT	iP	05 44 49
	epP	46 43
	iPP	48 22
COL	iP	05 44 39
	epP	46 34
HH	iP	05 44 45
	epP	46 38
	iPP	48 20
	iPKKP	06 02 25
LOG	e(P)	05 44 38
	epP	46 35
NEL	iP	05 44 10.8
	i	44 45.9
	i	45 20.6
	ipP	46 01.9
	i	47 11.4
TUC	iP	05 44 17
	i	44 30
	ipP	46 11
Dec. 27		
BC	ePP	07 06 57
BOZ	eP'	07 06 08
	e	09 25
BUT	e(P')	07 06 09
COL	eP	07 00 33
HH	eP	07 02 04
	e	05 59
	e(PP)	06 43
	ePKKP	20 21
MONT	iP'	07 07 11
	i	08 13
	iPP	10 32

Date and Station		Phase (GCT)
		h m s
NEL	eP'	07 06 02
	iP'	06 06.8
	iPP	06 57.8
SJ	eP'	07 07 26
	iP'	08 06
TUC	eP'	07 06 14
	e	07 27
Dec. 27		
BC	eP	07 09 23
NEL	iP	07 09 22.6
TUC	iP	07 09 30
Dec. 27		
BC	eP	07 31 24
BOZ	eP	07 31 29
BUT	eP	07 31 25
COL	eP	07 28 49
HH	iP	07 31 09
MONT	eP'	07 39 10
NEL	eP	07 31 40
	i	31 45.3
TUC	e(P)	07 32 07
	eL	08 04 54
Dec. 27		
HH	eP	09 50 54
Dec. 27		
HH	eP	10 51 22
	i	52 05
Dec. 27		
COL	eP	14 30 50
HH	e(P)	14 31 59
Dec. 27		
HH	e(P)	17 22 42
Dec. 27		
NEL	iP	17 47 38.1
Dec. 27		
BOZ	eP	19 16 09
	e	19 36
BUT	iP	19 16 14
	e	17 44
HH	iP	19 15 56.5
	e	19 13
LOG	iP	19 16 23
MONT	iP'	19 23 03

Date and Station		Phase (GCT)
		h m s
SLC	iP	19 16 16
TUC	eP	19 16 34
Dec. 27		
NEL	eP	22 21 23
Dec. 28		
NEL	iP	00 22 04.5
Dec. 28		
BC	eP	01 14 07.1
	i	14 33.9
	i	15 33.4
	iPP	17 54.9
BOZ	eP	01 14 20
	e	18 41
	eSKS	25 06
	i	25 16
	ePS	27 12
	eL	46 24
BUT	eP	01 14 24
	eSKS	25 23
	ePS	27 18
	ePPS	28 22
	eSS	32 38
	eL	41 16
COL	iP	01 13 00
	eS	22 58
	ePPS	24 02
	eL	30 56
COLU	iP'	01 19 39
	eSKS	26 41
	ePS	31 20
	e(SS)	38 35
	e	43 49
	eL	53 20
HONO	iP	01 10 12
	e(S)	18 16
	eScS	20 38
	eL	23 09
T_L = 10 sec. $A_{max.}$ = 3 mm.		
HH	iP	01 14 08
	ePP	18 11
	ePKKP	31 02
	eP'P'	39 14
LOG	e(P)	01 14 31
	ePP	18 26
MONT	iP'	01 19 58
	iPP	23 22
	i	23 37
NEL	iP	01 14 03.9
PHIL	ePP	01 22 06
	e	23 36
	eSKS	26 54
	ePS	31 30
	ePPS	33 24

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Date and Station		Phase	(GCT) h m s
PHIL		eSS	01 38 20
		eL	59 02
SJ		eP'	01 20 11
		ePP	23 11
		ePKS	24 20
		i	28 52
		eSKKKS	30 09
		e	32 12
		eSKSP	33 11
		eSS	42 25
		eSSS	47 00
		eL	58 26
TUC		eP	01 14 17
		e(PP)	18 35
		e	22 16
		eSKS	24 38
		e	25 15
		eSSS	36 31
		eL	43 36
UK		eSKS	01 24 11
		e	24 37
		eL	41 32
WASH		eP'	01 19 39
		e	19 49
		eL	02 03 58
Dec. 28			
COL		iP	01 22 42
		e	29 29
		e	34 19
HH		eP	01 22 49
MONT		iP'	01 28 38
		iPP	32 04
Dec. 28			
BOZ		eP	02 27 54
BUT		eP	02 28 08
		e	31 44
COL		iP	02 26 37
HH		iP	02 27 45
		e	31 23
NEL		iP	02 27 40.4
		ipP	28 16.6
		e	31 25
Dec. 28			
BOZ		eP	02 36 15
BUT		eP	02 36 28
		e	37 30
COLU		iP	02 33 16
		i	34 29
HH		iP	02 36 29.5
		i	36 38
		e	38 38
LOG		e(P)	02 35 58
MONT		eP	02 25 43
		iP	25 50
		i(S)	28 06
		iL	28 30
NEL		iP	02 35 41.6
		i	36 00.7
		i	37 24.4
SJ		eP	02 32 24
		i	32 30
		i	37 25
TUC		e(P)	02 35 16
Dec. 28			
MONT		i(P)	02 36 58
SJ		iP	02 33 48
Dec. 28			
COL		eP	02 57 01
HH		eP	02 59 20
Dec. 28			
COL		eP	03 13 04
Dec. 28			
COL		eP	04 14 32
Dec. 28			
BOZ		eP	07 18 17
BUT		eP	07 18 30
COL		iP	07 21 39
COLU		iP	07 15 52
		i	16 13
HH		eP	07 18 44
		i	20 35
MONT		eP	07 18 09
SLC		eP	07 17 50
		e	17 59
TUC		e(P)	07 16 56
		e	31 11
		eL	08 04 06
Dec. 28			
COL		iP	07 28 29
HH		e(P)	07 29 36
		e	30 09
MONT		eP	07 35 26
Dec. 28			
MONT		eP	07 38 52
Dec. 28			
COL		iP	08 00 27
Dec. 28			
NEL		iP	09 50 57.4
Dec. 28			
COL		iP	10 31 39
		e	32 05
HH		e(P)	10 32 39
Dec. 28			
COL		iP	12 05 36
Dec. 28			
MONT		iP	13 50 07
Dec. 28			
COL		iP	14 01 20
		i	01 42
		i	01 49
HH		iP	14 00 42
Dec. 28			
COL		eP	15 03 53
Dec. 28			
COL		iP	15 08 16
Dec. 28			
COL		iP	15 11 21
Dec. 28			
COL		iP	17 28 28
Dec. 28			
NEL		eP	18 24 21
Dec. 28			
NEL		e(P)	18 36 31
		i	36 46.1
Dec. 28			
COL		eP	19 07 30
		i	07 46
Dec. 28			
NEL		eP	20 35 19
		e	35 54
Dec. 28			
BC		eP	21 09 48
NEL		iP	21 09 51.1
		ipP	10 52.4
Dec. 28			
NEL		eP	21 30 17
Dec. 28			
NEL		eP	22 08 31
Dec. 28			
BC		iP	22 24 21.9
		i	24 36.4
		i	25 01.3
BOZ		eP	22 25 12
BUT		iP	22 25 14
		e	26 49
COL		iP	22 28 44
COLU		eP	22 23 30
HH		eP	22 25 39
MONT		eP	22 26 34
NEL		iP	22 24 20.4
		i	24 34.5
TUC		iP	22 23 38
		i	24 02
Dec. 28			
HH		eP	23 20 47
NEL		eP	23 20 35
		i	21 04.8
Dec. 28			
COL		iP	23 37 14
		i	37 27
Dec. 29			
NEL		eP	00 04 59
Dec. 29			
NEL		eP	00 29 41
		i	29 56.1
Dec. 29			
COL		iP	02 30 02
Dec. 29			
MONT		eP	04 03 32
Dec. 29			
NEL		e(P)	05 55 17
TUC		e(P)	05 54 30
Dec. 29			
BC		iP	09 49 57.0
BOZ		e(P)	09 49 17
BUT		eP	09 49 11
COL		iP	09 45 38
HH		eP	09 48 55
LOG		e(P)	09 49 41
NEL		iP	09 49 58.9
SLC		eP	09 49 44
Dec. 29			
BC		iP	09 50 22.3
COL		iP	09 46 02
HH		eP	09 49 18
NEL		iP	09 50 23.0
SLC		eP	09 50 09

Date and Station		Phase (GCT) h m s
TUC	eP	09 50 33
	e	51 18
Dec. 29		
BC	eP	10 16 15
COL	iP	10 16 55
HH	e(P)	10 16 53
NEL	iP	10 16 14.4
TUC	eP	10 16 22
	e	16 33
Dec. 29		
HH	e(P)	10 54 30
Dec. 29		
BC	e(P)	11 55 01
BUT	e(P)	11 53 24
COL	iP	11 53 09
	i	53 27
HH	e(P)	11 54 43
MONT	eP'	12 00 06
	iP'	00 09
NEL	eP	11 52 43
	ePP	54 15
Dec. 29		
MONT	iP	12 03 33
Dec. 29		
COL	iP	12 54 47
Dec. 29		
COL	iP	13 39 47
HH	iP	13 44 03
Dec. 29		
COL	iP	14 04 06
Dec. 29		
NEL	iP	16 06 15.7
Dec. 29		
BH	iP	16 41 27
	iS	41 51
Dec. 29		
BUT	eP	19 33 28
COL	iP	19 30 29
HH	e(P)	19 34 14
Dec. 29		
NEL	iP	20 33 01.7
Dec. 29		
HH	e(P)	22 24 10

Date and Station		Phase (GCT) h m s
Dec. 30		
NEL	eP	00 19 22
Dec. 30		
NEL	eP	01 05 39
Dec. 30		
COL	iP	02 05 48
Dec. 30		
COL	iP	02 19 04
HH	iP	02 19 53
NEL	eP	02 20 46
	e	21 03
Dec. 30		
COL	iP	05 57 26
Dec. 30		
HH	e(P)	07 04 36
Dec. 30		
BC	eP	09 18 28
	i	21 02.4
BOZ	eP	09 18 44
	e(S)	20 49
	eL	21 04
BUT	eP	09 18 31
	i	19 28
	e(S)	20 46
	eL	21 05
COL	eP	09 22 01
HH	iP	09 18 40
	e	21 04
	eL	21 25
LOG	eP	09 18 32
	eL	20 56
NEL	iP	09 18 23.6
	i	19 02.6
	iL	21 30.1
SLC	e(P)	09 18 26
	e(S)	20 32
	eL	21 01
TUC	e(P)	09 19 31
	iL	23 47
Dec. 30		
BC	iP	10 48 59.5
	i	49 11.7
	i	49 22.7
BOZ	iP	10 49 40
BUT	iP	10 49 35
COL	eP	10 48 27
	i(P)	49 36

Date and Station		Phase (GCT) h m s
HH	iP	10 49 37
	e	49 59
LOG	iP	10 49 27
NEL	iP	10 48 58.7
SLC	iP	10 49 34
	i	49 47
TUC	iP	10 49 06
Dec. 30		
BOZ	e(P)	11 18 50
BUT	eP	11 18 50
COL	eP	11 18 02
HH	iP	11 18 45
Dec. 30		
HH	e(P)	11 30 58
Dec. 30		
HH	e(P)	11 33 28
Dec. 30		
BC	iP	11 40 06.5
	i	40 19.6
BOZ	iP	11 39 38
	i	40 22
	i(PP)	41 11
BUT	iP	11 39 27
	ipP	39 49
	i	40 10
	iPcP	41 51
	eS	45 22
	iS	45 26
	eL	48 21
COL	iP	11 36 13
	e	37 44
	iS	39 23
	eL	39 57
COLU	iP	11 42 46
	eS	51 11
	e	55 27
	eL	12 01 45
HONO	iP	11 38 49
	eS	46 35
	i	48 04
	i	49 47
	eL	51 46
T_L = 9 sec. $A_{max.}$ = 3.5mm		
HH	iP	11 39 12
	iPcP	41 47
	eS	44 28
	e(P'P')	12 11 44
LOG	iP	11 39 53
	ePcP	41 24

Date and Station		Phase (GCT) h m s
MONT	e(P')	11 51 44
NEL	iP	11 40 07.8
	i	40 14.3
PHIL	eS	11 51 58
	eL	58 54
SLC	iP	11 39 57
	i	40 14
	ePcP	41 34
	eS	49 22
	e	50 06
	e	51 26
	eSS	54 28
	eL	12 00 24
SJ	iP	11 44 48
TUC	iP	11 40 46
	i	41 00
	eL	51 48
WASH	iP	11 42 39
	i	43 21
	e	44 55
Dec. 30		
BC	eP	12 24 16
NEL	eP	12 24 12
Dec. 30		
NEL	eP	12 46 13
Dec. 30		
HH	e(P)	14 14 15
Dec. 30		
BC	iP	16 16 52.3
COL	eP	16 12 35
NEL	iP	16 16 55.1
Dec. 30		
NEL	iP	23 09 38.9
	e	10 30
Dec. 31		
NEL	eP	00 15 32
Dec. 31		
HH	e(P)	02 32 37
Dec. 31		
BC	e(P)	05 48 14
NEL	eP	05 47 58
	e	48 45
Dec. 31		
NEL	eP	13 12 10
Dec. 31		
BC	iP	14 37 34.2

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Date and Station		Phase	(GCT) h m s
COL		iP	14 33 27
		i	33 45
HH		eP	14 36 38
LOG		e(P)	14 37 18
NEL		iP	14 37 36.2
		i	37 49.5
TUC		eP	14 38 08
Dec. 31			
NEL		eP	15 19 12
Dec. 31			
NEL		eP	15 23 30
Dec. 31			
COL		eP	16 59 30
		epP	17 00 50
Dec. 31			
COL		iP	19 05 07
Dec. 31			
HH		e(P)	20 04 39
Dec. 31			
NEL		eP	22 26 08

Local and Minor Earthquakes

day	hour
BOZ	
Dec.	
3	22.4
27	16.7
29	10.8
BUT	
Dec.	
4	18.8
7	18.9
8	07.2
10	22.7
17	18.2
18	23.2
23	19.1
25	06.5
27	16.7
29	10.7
30	16.9
COL	
Dec.	
2	10.4
	13.8
	20.3
3	11.8
	16.7
	18.4
	21.5
5	22.1
6	01.3

Local and Minor Earthquakes

day	hour
COL	
Dec.	
6	02.6
	02.7
9	08.2
	16.3
11	06.9
12	16.9
13	14.8
	23.2
14	19.8
15	21.0
	23.7
21	17.3
22	16.5
23	11.9
	14.2
	20.5
24	15.6
25	20.6
26	19.2
31	00.1
	11.7
HONO	
Dec.	
10	01.4
29	01.4
MONT	
Dec.	
1	18.3
2	00.4
	18.4
	19.0
3	13.8
4	13.2
5	00.4
	21.2
6	08.4
	23.8
7	15.0
8	03.3
	08.2
	12.6
9	21.1
10	07.2
11	19.8
12	09.8
13	04.4
	19.4
15	18.3
16	01.4
	14.7
20	02.6
	04.5
21	11.8
22	04.4
24	01.6
	10.4
	19.1
25	12.4
	22.0
26	02.4
	05.6
	20.5
27	14.3

Local and Minor Earthquakes

day	hour
MONT	
Dec.	
28	00.1
30	17.9
31	23.8
SLC	
Dec.	
29	11.5
SJ	
Dec.	
1	23.1
9	05.4
11	13.8
	21.4
13	00.3
15	19.4
17	04.4
31	07.2
	19.9
TUC	
Dec.	
1	06.4
	08.0
	10.1
2	10.0
	16.1
	23.4
3	01.8
	02.3
4	01.6
	12.1
	23.2
5	02.2
	10.2
6	11.2
7	00.1
10	13.5
11	07.6
	09.0
	09.1
	09.2
	09.8
	09.8
	10.0
	10.1
	10.2
	10.2
	10.3
	10.8
	10.9
	10.9
	18.1
	22.6
12	23.6
13	01.5
	03.3
	05.7
	10.6
	19.4
14	02.3
	10.0
15	06.3
	06.6
16	03.1

Local and Minor Earthquakes

day	hour
TUC	
Dec.	
16	07.2
	10.1
17	16.0
	17.5
	20.5
	23.6
	23.9
	23.9
18	00.8
	01.1
	01.2
	01.8
	03.7
	06.2
	06.5
	06.8
	10.8
	12.0
	20.1
	22.4
	23.8
19	01.0
	02.3
	04.0
	05.1
	06.5
	12.2
	21.9
20	02.5
	04.5
	06.1
	09.3
	12.5
	15.9
	18.1
	19.6
	21.9
21	02.6
	07.2
	12.1
	12.2
	12.8
	12.9
	17.6
22	00.0
	01.7
	04.0
	05.1
	07.3
	08.2
	10.7
	11.6
	14.9
23	00.2
	03.8
	03.8
	06.1
	06.6
24	18.4
	20.2
25	03.0
	03.5
	09.6
	09.9
26	03.9

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Local and Minor Earthquakes				
day	hour			
TUC				
Dec.	05.5			
	08.3			
	12.8			
	15.0			
	15.9			
	18.3			
	18.5			
	22.1			
27	01.3			
	03.0			
	03.4			
	04.2			
	04.9			
	05.4			
28	02.6			
	07.3			
29	10.9			
	19.5			
30	00.4			
	10.0			
	11.5			
	14.4			
31	02.5			
	05.8			
	09.4			