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SEISMOLOGICAL BULLETIN

May, 1955

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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

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)
**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 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, and Logan 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.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	° '	° '	
1	09 55 16*	39-1/2 N.	143-1/2 E.	Off coast of northern Honshu, Japan. Mag. 6-3/4.
1	13 58 44*	39-1/2 N.	143-1/2 E.	Honshu aftershock. Mag. 6.
1	21 22 40*	45-1/2 N.	27 E.	East central Romania.
2	12 39 06*	19 N.	145 E.	Marianas Islands. h about 100 km.
3	11 49 25**			Oaxaca, Mexico.
3	12 50 05*	8-1/2 S.	79-1/2 W.	Off coast of Peru.
3	15 15 07*	12-1/2 S.	166-1/2 E.	New Hebrides Islands.
3	17 07 33*	39-1/2 N.	143 E.	Near coast of northern Honshu.
4	00 16 59*	28 N.	96-1/2 E.	Northern Assam.
5	05 48 30*	33 S.	179-1/2 W.	Kermadec Islands region.
5	08 44 12**			New Britain.
6	00 04 31*	40 N.	143 E.	Near coast of northern Honshu, Japan.
6	11 39 53*	35-1/2 N.	36 W.	North Atlantic Ocean.
6	16 35 57*	51 N.	180	Andreanof Islands, Aleutian Islands. h about 100 km.
7	01 34 16*	28 S.	179 W.	Kermadec Islands region. h about 300 km.
7	11 50 40*	39 N.	122-1/2 W.	Near Clear Lake, California. Minor damage at Lower Lake. Mag. 4-3/4 - 5.
8	03 35 16*	65-1/2 N.	133-1/2 W.	Yukon, Canada.
8	04 39 47**			Crete.
8	09 38 16	42-3/4 N.	110-3/4 W.	Idaho-Wyoming border.
8	10 31 40*	25-1/2 N.	110 W.	Gulf of California.
8	10 38 33*	39 N.	118 W.	Near Fallon, Nevada.
8	21 39 26*	40-1/2 N.	1-1/2 W.	Eastern Spain.
9	20 15 10*	41 N.	145 E.	Near coast of northern Honshu, Japan.
11	00 43 36*	8 S.	128 E.	Timor Island region.
11	11 04 00*	0	78 W.	Ecuador. Minor damage in Carchi and Imbabura provinces. Mag. 6-3/4.
11	15 48 57*	36 N.	140-1/2 E.	Near east coast of Honshu, Japan. Felt at Tokyo.
11	16 37 10*	19-1/2 N.	121-1/2 E.	Off north coast of Luzon Island, Philippine Islands.
11	19 23 58*	7 S.	123-1/2 E.	Banda Sea. h about 700 km.
12	07 18 06*	22-1/2 S.	68 W.	Chile-Bolivia border. h about 100 km.
13	03 29 49*	19 N.	63-1/2 W.	Virgin Islands region. Felt at San Juan, Puerto Rico.
13	05 21 09*	19 N.	63-1/2 W.	Virgin Islands aftershock.
13	06 59 26*	19 N.	63-1/2 W.	Do.
13	21 55 51*	7-1/2 N.	78 W.	Colombia-Panama border.
14	06 04 14*	28 N.	139-1/2 E.	Bonin Islands region. h about 500 km. Mag. 6-3/4.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	° ′	° ′	
14	12 38 08*	59-1/2 N.	151-1/2 W.	Kenai Peninsula, Alaska. h about 100 km.
14	13 35 38*	37 N.	71-1/2 E.	Hindu Kush. h about 200 km.
14	20 00 00*	29 N.	126-1/2 W.	Pacific Ocean. Off coast of Lower California.
14	21 29 01*	61 N.	148 W.	Kenai Peninsula, Alaska.
15	10 07 34*	18 S.	168-1/2 E.	New Hebrides Islands.
16	03 34 42*	33 N.	141 E.	South of Honshu, Japan.
17	14 07 43*	56 N.	156-1/2 W.	Off south coast of Alaska Peninsula.
17	14 49 47*	7 N.	94-1/2 E.	Nicobar Islands. Mag. 7.
18	05 26 14*	23 N.	121-1/2 E.	Near coast of Formosa.
18	07 23 00**			Formosa aftershock.
18	15 46 04*	5 S.	150 E.	New Britain.
19	03 11 20*	66-1/2 N.	17 W.	Near north coast of Iceland. Felt.
19	07 07 13*	19 S.	69 W.	Northern Chile. Felt at Arica. h about 100 km.
21	01 30 15*	29 N.	140 E.	Bonin Islands foreshock.
21	03 30 06*	29 N.	140-1/2 E.	Bonin Islands region.
21	15 27 10**			Eastern Java.
21	15 39 24*	15-1/2 S.	173 W.	Samoa Islands. Minor damage at Apia. h about 100 km.
21	22 24 08**			Fiji Islands region.
22	04 57 33**			Austria-Germany border. Minor damage at Innsbruck, Austria.
22	14 05 35*	18 N.	147-1/2 E.	Marianas Islands.
22	23 45 17*	11 S.	74 W.	Central Peru. h about 100 km.
23	16 32 38**			Near east coast of Formosa.
23	17 41 40*	18 S.	169 E.	New Hebrides Islands.
23	21 25 22**			Fiji Islands. h about 250 km.
24	01 12 11**			Kurile Islands region.
25	03 08 58*	14 N.	92-1/2 W.	Off coast of Guatemala.
25	03 58 36*	54 N.	165-1/2 W.	Fox Islands, Aleutian Islands. Felt at Unalaska.
25	12 25 25*	46 N.	27 W.	North Atlantic Ocean.
25	12 28 42**			Western Sinkiang province, China.
25	18 20 53*	48 N.	157 E.	Northern Kurile Islands.
26	06 11 18*	10 N.	79-1/2 W.	Near north coast of Panama. Felt at Balboa Height
26	06 59 13*	10-1/2 N.	65 W.	Near coast of Venezuela.
26	12 45 40**			Near east coast of Honshu, Japan. Felt at Tokyo.
26	13 15 12**			Nicobar Islands region.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	° '	° '	
26	16 23 10*	10 S.	161 E.	Solomon Islands. Mag. 7.
26	21 18 09**			Sinkiang province, China.
26	21 20 57*	10 S.	160-1/2 E.	Solomon Islands aftershock.
27	07 08 01**			Solomon Islands region.
27	12 26 39*	10 S.	160-1/2 E.	Solomon Islands aftershock.
27	19 06 14**			Sumbawa Island.
28	06 20 40*	30-1/2 S.	65 W.	Cordoba province, Argentina. Felt at Santiago and Valparaiso, Chile.
28	19 44 19*	35-1/2 N.	118 W.	Southern California. Felt at Sageland and Little Lake. Mag. 4.5
28	22 12 52*	17-1/2 S.	179 W.	Fiji Islands. h about 600 km.
29	01 15 07*	24 S.	177-1/2 E.	South of Fiji Islands. h about 600 km.
29	02 31 34*	50 N.	151 E.	Sea of Okhotsk. h about 400 km.
29	03 59 05**			Bouvet Island region.
29	11 05 50*	49 N.	157 E.	Northern Kurile Islands.
29	13 31 26*	56 N.	155 W.	Near south coast of Kodiak Island. Mag. 5-3/4.
29	15 34 00*	10-1/2 S.	110-1/2 E.	Off south coast of Java. Mag. 6-3/4.
29	21 03 07*	56 N.	155 W.	Kodiak Island aftershock. Mag. 5-1/2.
29	21 20 00**			Northern Chile. h about 100 km.
30	00 23 15*	19 N.	63 W.	Leeward Islands.
30	07 55 50**			Volcano Islands region.
30	08 24 00**			Samoa Islands region.
30	09 32 10**			Off south coast of Alaska Peninsula.
30	12 31 41*	24-1/2 N.	142-1/2 E.	Volcano Islands. Felt at Tokyo, Japan. h about 600 km. Mag. 7-1/4.
30	16 54 57*	17 S.	178-1/2 W.	Fiji Islands. h about 550 km.
30	23 26 50*	3 S.	137 E.	Western New Guinea. Mag. 6-1/2.
31	07 22 30**			Near east coast of Honshu, Japan. h about 100 km.
31	09 30 44*	27 S.	177-1/2 W.	Kermadec Islands region. Felt on Raoul Island. h about 100 km. Mag. 6-3/4.
31	14 44 10*	42 N.	141 E.	Near south coast of Hokkaido, Japan. h about 100 km.
31	16 30 18**			Bismarck Sea.
31	17 57 12*	0	92 W.	Galapagos Islands.
31	20 29 12**			Western Colombia.

Date and Station		Phase	(GCT) h m s
May 1			
HH		e(P)	00 05 12
May 1			
HH		e(P)	00 23 13
May 1			
COL		iP	02 31 56
May 1			
COL		eP	04 28 04
May 1			
BH		eP	06 02 13
		iS	02 23
May 1			
BC		iP	10 07 06.3D
BOZ		eP	10 06 43D
		iPcP	07 09
		eS	16 02
		e(ScS)	16 50
		eSS	20 58
		eL	25 50
BUT		eP	10 06 37D
		iPcP	06 51
		i	08 13
		iS	15 50
		iScS	16 38
		eSS	20 46
		e(SSS)	23 57
		eL	24 39
CHI		eS	10 18 31
		eSS	24 03
		eL	30 51
COL		iP	10 03 42C
		iS	10 22
		iL	14 30
COLU		eS	10 20 06
		eSS	26 44
		eL	36 12
HONO		eS	10 11 44
		i	12 17
		e(SS)	15 47
		eL	17 38
T_L = 10 sec. $A_{max.}$=2mm.			
HH		eP	10 06 23C
		iP	06 24D
		e(PP)	09 35
		eS	15 23
		eP'P'	34 35
MONT		eP'	10 15 03
NEL		iP	10 07 06.6D
PHIL		eS	10 19 32
		ePPS	21 10
		eL	33 05
BC		e(P)	10 07 23
		eS	17 04
		eL	36 00
SLC		iP	10 07 00D
		eS	16 36
		i	17 12
		i(ScS)	17 19
		eSS	21 47
		eL	25 39
TUC		iP	10 07 32C
		eS	17 42
		e(SS)	23 36
		eL	29 12
May 1			
COL		eP	10 33 16
May 1			
HH		e(P)	11 42 56
NEL		e(P)	11 41 50
SJ		eP	11 38 31
May 1			
COL		iP	12 07 24
May 1			
HH		e(P)	12 38 13
May 1			
BC		iP	14 10 32.2
BOZ		eP	14 10 10
		eS	19 30
		eSS	24 10
		eL	28 56
BUT		e(P)	14 10 02
		eP	10 04
		i	11 01
		eS	19 21
		iScS	20 07
		eSS	24 27
		eL	28 44
CHI		eS	14 21 58
		eSS	27 33
		eL	39 29
COL		eP	14 07 08
		iP	07 10
		iS	13 48
		iSS	17 02
		eL	18 21
COLU		eS	14 23 23
		eL	39 07
HONO		eS	14 15 18
		eL	21 30
HH		eP	14 09 50
		i	10 00
		eP'P'	38 02
MONT		eP	14 18 31
NEL		iP	14 10 32.8
PHIL		eS	14 23 00
		eL	35 48
SLC		iP	14 10 28
		eS	20 03
		i	20 37
		e(SS)	25 23
		eL	31 15
TUC		eP	14 11 02
		i	11 15
		eS	20 54
		eL	32 50
May 1			
COL		iP	14 17 49
HH		iP	14 20 21
NEL		iP	14 21 03.9
May 1			
COL		eP	14 48 06
May 1			
NEL		eP	19 09 41
May 1			
HH		e(P)	21 22 11
May 1			
COL		iP	21 33 51
HH		iP	21 34 50
		i	35 25
NEL		eP	21 35 49
May 2			
BC		eP	00 02 52
May 2			
BOZ		e(P)	01 07 22
BUT		e(P)	01 09 18
COL		iP	01 07 17
HH		e(P)	01 07 19
TUC		e(P)	01 06 43
May 2			
BUT		eP	02 55 52
HH		iP	02 55 43
		i	56 09
May 2			
HH		e(P)	09 44 28
May 2			
HH		e(P)	12 33 45
May 2			
BC		iP	12 51 45.0
		i	52 06.8
BOZ		iP	12 51 40
		ePP	54 56
BUT		iP	12 51 35
		ipP	52 02
COL		iP	12 49 28
		ipP	49 53
HH		iP	12 51 26
		ePP	54 32
MONT		iP'	12 58 45
SLC		iP	12 51 47
SJ		ePP	13 01 28
TUC		iP	12 52 06
		i	52 13
May 2			
HH		e(P)	14 28 58
May 2			
COL		iP	16 01 39
May 2			
HH		e(P)	16 54 06
May 2			
BC		eP	18 55 08
May 2			
HH		e(P)	21 28 46
May 3			
HH		e(P)	00 46 35
NEL		eP	00 43 23
		e	43 40
May 3			
BUT		e(P)	01 38 46
HH		e(P)	01 39 18
May 3			
HH		iP	01 41 17
May 3			
NEL		eP	02 35 46
May 3			
COL		iP	02 45 00
May 3			
NEL		eP	08 01 38
May 3			
BUT		e(P)	09 01 48
HH		eP	09 01 37

Date and Station		Phase (GCT)
		h m s
NEL	eP	09 02 09
	i	02 28.9
May 3 HH	e(P)	11 00 27
May 3 BUT	eP	11 55 56
COL	iP	11 59 25
HH	eP	11 56 16
MONT	e(P)	11 58 06
NEL	iP	11 54 49.9
TUC	eP	11 54 02
	i	54 46
	eL	59 30
May 3 NEL	iP	12 29 09.9
May 3 BC	iP	12 59 45.7
BOZ	eP	13 00 23
COL	iP	13 03 01
HH	iP	13 00 46
	i	01 01
MONT	iP	12 54 09
NEL	iP	12 59 43.2
	i	59 56
SJ	eP	12 56 16
	e	56 38
TUC	iP	12 59 08
	e	59 23
May 3 BC	iP	13 16 28.0
	iS	18 23.5
BOZ	eP	13 18 47
HH	eP	13 19 13
NEL	iP	13 16 23.0
TUC	eP	13 15 48
	e	15 53
	e	16 03
	eS	16 47
	iL	17 25
May 3 BC	iP	15 28 02.4
COL	iP	15 27 40
	i	27 44
HH	eP	15 28 21
NEL	iP	15 28 01.8
May 3 NEL	eP	15 45 44
May 3 BC	iP	16 22 16.4
HH	e(P)	16 23 49
NEL	iP	16 22 15.0
May 3 BC	iP	17 19 23.8
BOZ	eP	17 19 01
BUT	e(P)	17 18 51
	eP	18 55
	e	20 25
COL	eP	17 15 59
	i	16 03
HH	eP	17 18 40
NEL	iP	17 19 24.3
	i	20 55.4
SLC	eP	17 19 17
TUC	eP	17 19 52
	e	22 30
May 3 HH	e(P)	18 22 27
NEL	eP	18 18 06
	i	18 19.8
	i(S)	19 13.4
SLC	e(P)	18 18 27
TUC	i(P)	18 21 52
	e	22 06
May 3 BC	iP	19 04 02.6
BUT	iP	19 03 52
COL	iP	19 01 46
HH	iP	19 03 44
NEL	iP	19 04 02.7
May 3 BC	iP	19 26 54.0
NEL	iP	19 26 51.4
TUC	eP	19 26 03
May 3 NEL	eP	19 47 30
May 3 COL	eP	22 15 24
May 4 COL	iP	00 28 43
HH	eP	00 30 44
	eP'	34 36
	ePP	34 50
NEL	eP'	00 35 39
May 4 COL	eP	01 44 33
	iP	44 36
HH	e(P)	01 43 49
May 4 COL	iP	06 07 53
HH	iP	06 10 11
May 4 COL	eP	06 21 05
May 4 MONT	iP	06 33 45
May 4 BC	eP	10 09 20
HH	eP	10 08 50
NEL	iP	10 09 22.5
May 4 COL	iP	10 16 41
	e	17 14
May 4 COL	eP	11 45 24
	eS	46 01
	eL	46 18
May 4 NEL	eP	12 04 28
TUC	eP	12 03 40
May 4 COL	eP	15 02 53
May 4 BC	eP'	15 41 23
HH	e(P')	15 41 05
	ePP	43 11
NEL	iP'	15 41 23.8
TUC	iP'	15 41 33
May 4 COL	eP	20 07 14
May 4 COL	eP	23 58 36
May 5 COL	eP	01 30 47
HH	iP	01 28 40
NEL	iP	01 27 50.6
May 5 NEL	eP	03 13 48
May 5 BC	iP	06 01 36.5
COL	eP	06 02 17
NEL	iP	06 01 35.1
TUC	iP	06 01 37
May 5 BC	iP	08 22 19.4
BOZ	eP	08 23 03
BUT	e(P)	08 23 11
COL	iP	08 26 39
HH	e(P)	08 23 32
NEL	iP	08 22 16.3
SLC	e(P)	08 22 32
TUC	iP	08 21 32
	e	21 50
May 5 COL	iP	08 56 39
HH	e(P)	08 57 51
	e	58 23
NEL	eP	08 57 46
May 5 COL	eP	09 01 41
May 5 HH	e(P)	10 42 05
May 5 COL	iP	12 03 34
May 5 SLC	iP	12 42 30
May 5 COL	iP	13 04 06
May 5 NEL	iP	15 54 23.6
May 5 COL	eP	23 53 53
NEL	eP	23 58 07
	e	58 48

B-4297-4

Date and Station		Phase	(GCT) h m s
May 6			
BC		iP	00 16 22.5
BUT		eP	00 15 54
COL		eP	00 12 58
HH		iP	00 15 40
MCNT		e(P')	00 24 23
NEL		iP	00 16 23.6
SLC		eP	00 16 16
TUC		eP	00 16 50
May 6			
COL		eP	01 06 40
NEL		eP	01 11 00
TUC		eP	01 11 40
May 6			
COL		iP	01 36 41
May 6			
COL		iP	04 58 11
May 6			
NEL		iP	11 21 38.5
		ipP	21 55.6
May 6			
BC		iP	11 50 19.8
BOZ		iP	11 49 36
		i	49 43
		ePP	51 38
BUT		iP	11 49 41
		i	49 49
COL		iP	11 50 49
COLU		eP	11 47 05
HH		iP	11 49 43
		i	49 52
		e	50 42
		ePP	51 44
MONT		iP	11 50 39
NEL		iP	11 50 19.7
SLC		eP	11 49 50
SJ		iP	11 46 19
TUC		eP	11 50 10
		e	50 15
		i	50 23
		i	50 54
		eL	12 12 03
May 6			
HH		eP	12 53 40
NEL		eP	12 54 13
May 6			
BC		eP	13 53 44
HH		iP	13 54 30
NEL		iP	13 53 41.9
TUC		eP	13 53 17
May 6			
BC		iP	13 58 39
COL		eP	13 55 08
HH		iP	13 57 52
NEL		eP	13 58 39
May 6			
BC		iP	16 44 35.1
		i	44 47.2
COL		iP	16 40 45
		i	40 56
		ipP	41 28
HH		eP	16 43 41
		ipP	43 58
NEL		iP	16 44 36.2
		i	44 48.1
		ipP	44 58
SJ		eP	16 48 51
TUC		eP	16 45 24
May 6			
NEL		e(P)	20 16 58
May 6			
HH		e(P)	21 36 44
May 6			
COL		eP	22 50 21
		epP	51 27
May 7			
COL		iP	01 23 09
May 7			
BC		iP	01 46 35.5
COL		eP	01 47 11
NEL		iP	01 46 33.8
May 7			
HH		eP	05 01 17
		i	01 27
MONT		eP	04 54 23
May 7			
COL		eP	05 14 08
May 7			
BC		iP	05 44 15.6
NEL		iP	05 44 10.7
TUC		eP	05 43 17
		i	43 25
		e	43 33
May 7			
COL		eP	06 58 25
May 7			
HH		e(P)	10 08 20
		i	08 30
		i(S)	09 20
		iL	09 28
May 7			
COL		eP	10 33 29
May 7			
COL		eP	10 51 29
		e	51 54
May 7			
BC		eP	11 52 25
		i	52 56.9
BUT		e(P)	11 52 57
HH		eP	11 53 25
		eL	56 53
NEL		iP	11 52 26.5
SLC		eP	11 52 50
		eL	55 12
TUC		e(P)	11 53 34
		e	53 39
		eL	57 17
May 7			
COL		eP	12 19 31
May 7			
HH		e(P)	12 38 59
May 7			
COL		eP	13 54 10
		e	54 41
May 7			
COL		iP	15 01 30
HH		eP	14 58 59
NEL		eP	14 58 16
		i	59 45.1
May 7			
COL		eP	15 29 14
May 7			
NEL		eP	18 49 46
May 7			
BC		eP	19 11 15
NEL		eP	19 11 14
May 7			
COL		iP	19 26 29
May 7			
COL		iP	20 24 40
HH		i(P)	20 27 25
RC		iP	20 28 13
May 7			
COL		eP	21 05 27
May 8			
COL		eP	00 26 58
May 8			
NEL		eP	01 24 01
		e	25 35
RC		iP	01 25 46
SJ		iP	01 27 40
May 8			
NEL		eP	02 21 44
May 8			
BH		eP	02 50 22
		eS	51 21
May 8			
BOZ		eP	03 40 28
		eL	46 50
BUT		eP	03 40 18
COL		eP	03 36 47
		iP	36 48
HH		eP	03 39 50
		eL	45 19
NEL		eP	03 41 43
TUC		eP	03 42 21
May 8			
COL		e(P)	04 52 09
RC		e(P)	04 52 54
HH		e(P)	04 52 49
May 8			
COL		eP	07 00 34
May 8			
COL		iP	07 39 47
MONT		eP	07 36 35
NEL		eP	07 38 17

Date and Station		Phase (GCT)
		h m s
May 8		
BOZ	eP	09 39 03
	iP	39 04
	iS	39 44
	iL	39 54
BUT	eP	09 39 09
	iS	39 58
	iL	40 05
COL	eP	09 44 28
HH	eP	09 39 45
	iP	39 48
	i(S)	40 53
	iL	41 18
LOG	eP	09 38 37
	i(S)	38 56
	iL	39 03
SLC	eP	09 38 52
	iP	38 54
	eS	39 21
	i	39 23
	eL	39 30
May 8		
BOZ	eP	10 36 16
	i	36 40
BUT	eP	10 36 20
COL	eP	10 40 06
HH	iP	10 36 46
LOG	eP	10 35 30
	eL	39 00
NEL	iP	10 34 19.4
SLC	eP	10 35 17
	eS	39 32
	eL	39 57
TUC	eP	10 33 18
	e	33 50
	e	34 30
	eL	34 54
May 8		
BOZ	eP	10 40 42
	eL	43 07
HH	eP	10 41 01
	eL	43 45
NEL	iP	10 39 38.3
	i	39 49
TUC	eP	10 40 46
	e	43 07
May 8		
HH	i(P)	10 50 58
May 8		
COL	eP	13 47 37

Date and Station		Phase (GCT)
		h m s
May 8		
COL	eP	15 00 33
	i	01 12
May 8		
COL	eP	15 10 05
May 8		
BC	iP'	18 53 47.9
COL	eP'	18 53 03
HH	eP'	18 53 38
	i	54 30
NEL	iP'	18 53 47.5
	i	53 59.1
RC	iP'	18 53 46
	i	55 01
SJ	eP'	18 53 13
TUC	eP'	18 53 49
May 8		
RC	eP	18 58 50
May 8		
BC	iP	21 51 47.6
HH	e(P)	21 51 02
NEL	iP	21 51 48.8
RC	iP	21 50 43
May 8		
COL	iP	23 48 15
RC	iP	23 52 16
May 9		
RC	iP	02 15 00
May 9		
COL	iP	02 58 56
RC	iP	03 03 43
May 9		
COL	eP	04 41 08
	eS	42 23
	eL	42 43
May 9		
HH	e(P)	05 48 29
May 9		
COL	eP	07 24 30
	e	25 10
May 9		
HH	e(P)	08 24 00
May 9		
HH	eP	08 42 16

Date and Station		Phase (GCT)
		h m s
May 9		
COL	eP	09 27 12
May 9		
COL	eP	10 46 24
May 9		
BC	iP	11 11 45.2
BOZ	eP	11 13 06
HH	eP	11 13 40
NEL	iP	11 11 41.9
RC	iP	11 13 02
SLC	e(P)	11 12 29
TUC	eP	11 10 46
	i	11 07
May 9		
COL	eP	12 07 47
May 9		
NEL	iP	18 10 18.5
May 9		
COL	eP	19 54 52
May 9		
BC	iP	20 26 48.6
	i	26 58.9
BUT	e(P)	20 26 22
COL	iP	20 23 22
	i	23 32
HH	iP	20 26 06
	i	26 24
	i	26 35
NEL	iP	20 26 50.0
	i	27 00.4
TUC	eP	20 27 17
May 9		
NEL	eP	23 17 34
May 10		
RC	iP	00 29 08
May 10		
COL	iP	00 45 24
	e	45 43
May 10		
RC	iP	01 56 56
May 10		
BC	eP	04 39 32
	i	39 38.0
	iS	40 16.1
NEL	eP	04 39 27

Date and Station		Phase (GCT)
		h m s
NEL	i	04 39 32.5
	iS	40 08
	iL	40 18
May 10		
HH	e(P)	04 42 05
	e	42 29
May 10		
RC	eP	04 49 15
May 10		
HH	e(P)	07 57 48
May 10		
HH	eP	10 52 43
May 10		
COL	eP	11 44 16
May 10		
BC	eP	11 43 08
BOZ	eP	11 42 49
COL	iP	11 44 47
HH	eP	11 42 58
NEL	iP	11 43 07.7
RC	iP	11 42 09
May 10		
HH	e(P)	14 06 28
SLC	e(P)	14 04 21
May 10		
RC	eP	21 43 42
May 11		
HH	eP	00 12 49
NEL	iP	00 12 01.2
SJ	e(P)	00 08 09
	e	08 39
May 11		
HH	e(P')	01 03 07
MONT	eP'	01 03 16
	e	04 03
NEL	eP'	01 02 17
RC	iP'	01 02 27
May 11		
RC	iP	01 12 55
	i	18 21
May 11		
HH	e(P)	01 32 33
May 11		
NEL	iP	07 29 25

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Date and Station		Phase	(GCT) h m s
May 11			
BH		iP	11 06 20
BC		eP	11 12 57C
		i	13 00.9
		i	13 02.5
BOZ		eP	11 13 30
		iP	13 34D
		i	13 58
BUT		eP	11 13 37
		iP	13 41D
		i	14 03
		i(PP)	15 53
		e	20 39
		eS	21 19
		i	21 36
		i(SS)	25 37
		eL	27 39
COL		iP	11 16 20C
		e	17 32
		iPP	19 31
COLU		eP	11 10 49D
		iP	10 53
		iPP	12 14
		iS	16 20
		i	16 41
		eL	18 22
HH		eP	11 13 52C
		i	13 57
		e	16 27
		eS	21 23
LOG		eP	11 13 14C
		ePP	15 09
MONT		iP	11 09 18C
		eS	13 51
		eL	14 18
NEL		eP	11 12 55C
		iP	12 56D
PHIL		iP	11 11 40S
		ePP	13 13
		eS	17 43
		iS	17 46
		e	18 46
		e	19 38
		eL	20 44
SLC		eP	11 13 07D
		iP	13 11
		ePPP	16 01
		eS	20 25
		eScS	22 27
		eSS	23 56
		eL	25 17
SJ		iP	11 08 54D
		e	09 22
		eS	12 56
		iS	13 00
		eL	15 06
TUC		iP	11 12 18D
		i	12 24
		i	14 17
		eS	19 04
		iS	19 08
		i	20 06
		eL	22 37
WASH		iP	11 11 32D
		i	12 02
		iS	17 34
		eL	23 00
May 11			
SJ		iP	11 17 00
May 11			
HH		eP	11 43 45
RC		eP	11 42 40
SJ		iP	11 38 39
May 11			
RC		iP	12 11 56
SJ		eP	12 07 56
May 11			
NEL		iP	13 16 34
May 11			
COL		iP	13 48 24
HH		iP	13 52 32
NEL		eP	13 54 03
May 11			
COL		eP	14 08 54
NEL		e(P)	14 09 27
May 11			
BC		eP	16 01 08
COL		eP	15 57 55
HH		iP	16 00 28
MONT		eP'	16 08 51
NEL		iP	16 01 08.4
RC		iP	16 01 16
May 11			
COL		eP	16 48 41
HH		eP	16 50 39
May 11			
HH		i(P)	16 57 37
May 11			
RC		iP	19 41 37.0
BOZ		iP	19 41 38
COL		eP	19 36 15
HH		iP	19 41 31
		epP	43 55
		i	54 45
LOG		eP	19 41 40
MONT		iP	19 42 33
		e	45 01
NEL		iP	19 41 39.2
RC		iP	19 41 42
		i	44 20
SJ		iP	19 43 53
TUC		iP	19 41 47
May 11			
RC		iP	19 51 30
May 11			
COL		iP	21 04 42
May 11			
HH		e(P)	21 25 45
		eL	27 50
LOG		e	21 25 13
		eL	25 28
May 11			
COL		eP	22 06 07
May 11			
HH		e(P)	22 18 38
		e	19 14
May 12			
SJ		eP	00 06 18
May 12			
BC		eP	01 09 16
HH		iP	01 13 05
NEL		i(P)	01 09 15.0
RC		eP	01 10 21
May 12			
RC		iP	01 14 48
May 12			
HH		e(P)	01 32 49
May 12			
COL		eP	03 54 27
May 12			
COL		iP	04 39 37
May 12			
MONT		iP	07 18 28
RC		eP	07 16 42
SJ		eP	07 12 41
May 12			
RC		eP	07 29 31
		ipP	29 57.2
BOZ		e(P)	07 30 01
		ipP	30 27
BUT		iP	07 30 07
		ipP	30 33
COLU		iP	07 28 15
HH		iP	07 30 18.5
		ipP	30 45
NEL		iP	07 29 29.3
		ipP	29 56.0
RC		iP	07 29 34
		ipP	30 01
		isP	30 15
SLC		e(P)	07 30 08
SJ		eP	07 25 40
		ipP	26 04
TUC		eP	07 29 01
		ipP	29 26
May 12			
COL		eP	08 14 18
May 12			
COL		eP	08 40 34
HH		eP	08 43 02
RC		eP	08 43 53
May 12			
COL		eP	08 45 06
HH		eP	08 47 38
RC		eP	08 48 24
May 12			
COL		iP	11 34 32
HH		e(P)	11 29 59
May 12			
HH		iP	11 39 01
May 12			
COL		iP	13 44 47
May 12			
HH		eP	14 27 37
NEL		eP	14 28 33
		e	28 36
May 12			
COL		eP	15 41 23

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Date and Station		Phase (GCT)
		h m s
May 12		
COL	eP	16 37 41
	i	38 26
May 12		
COL	eP	20 04 15
HH	eP	20 06 32
	e	06 48
RC	iP	20 07 13
May 12		
BUT	e(P)	22 59 08
HH	e(P)	23 01 36
SLC	iP	22 57 40
	i(S)	57 58
	iL	58 02
May 13		
RC	eP	02 20 42
May 13		
BC	iP	03 38 32.5
	i	38 45.5
BOZ	eP	03 38 26
	iP	38 28
	i	38 47
BUT	eP	03 38 36
	i	38 48
	e	40 31
	eS	45 39
	eL	49 51
CHI	eP	03 36 06
	e	36 29
	eS	40 27
	eL	43 24
COL	iP	03 41 08
COLU	iP	03 34 42
	iS	38 31
	iL	39 47
HH	eP	03 38 47
	e	40 47
	i	41 44
MONT	eP	03 37 42
	eS	43 36
NEL	iP	03 38 31.9
PHIL	iP	03 34 59
	e	35 23
	eS	39 07
	eL	40 49
RC	iP	03 37 39
	iPP	39 17
	i	39 45
SLC	eP	03 38 20
	iP	38 21
SLC	i	03 38 43
	e	41 25
	eS	45 08
	eL	50 12
SJ	iP	03 30 30
	iS	30 52
	iL	31 04
TUC	eP	03 38 03
	iP	38 04
	i	38 53
	i	39 48
	eS	44 04
	eL	48 12
WASH	iP	03 34 59
	eS	39 07
	eL	41 23
May 13		
RC	iP	04 35 34
May 13		
HH	e(P)	05 16 49
MONT	eP	05 12 11
RC	iP	05 15 46
SJ	iP	05 11 48
May 13		
BC	iP	05 28 51.9
COL	iP	05 32 27
HH	iP	05 30 06
MONT	eP	05 29 05
NEL	iP	05 29 51.3
SJ	iP	05 21 49
	e	21 54
	iS	22 13
	iL	22 22
RC	iP	05 29 00
	i	30 53
TUC	eP	05 29 22
May 13		
NEL	e(P)	05 41 09.1
	i	41 23.2
SJ	iP	05 33 20
	e	33 22
	eS	33 44
	eL	33 52
May 13		
COL	eP	07 10 44
HH	eP	07 08 22
MONT	e(P)	07 07 22
NEL	iP	07 08 07.8
SJ	iP	07 00 06
	iS	00 29
	eL	00 37
RC	eP	07 07 16
TUC	e(P)	07 07 40
May 13		
RC	iP	09 13 57
May 13		
RC	eP	12 44 54
May 13		
BC	eP	13 33 10
	i	33 32.4
NEL	eP	13 33 08
	i	34 09.9
May 13		
NEL	iP	13 36 19.6
	i	36 58
RC	eP	13 37 00
	epP	38 13
May 13		
BH	eP	13 36 10
	iS	36 55
May 13		
HH	e(P)	13 47 36
NEL	iP	13 44 41.8
	i	45 04.0
RC	iP	13 47 17
SLC	e(P)	13 45 23
	e(S)	48 56
	eL	49 55
May 13		
RC	eP	13 51 42
May 13		
BC	eP	14 13 55
	i	14 27.8
	iS	15 43.7
HH	e(P)	14 17 05
NEL	eP	14 14 10
	i	14 37.8
RC	eP	14 16 51
May 13		
COL	iP	18 50 13
May 13		
HH	eP	20 07 11
May 13		
HH	e(P)	22 00 46
May 13		
BH	iP	21 56 31
	iS	56 59
COL	iP	22 07 34
HH	eP	22 04 56
MONT	iP	22 02 13
NEL	iP	22 04 03.3
RC	iP	22 03 47
	i	03 55
SJ	eP	21 59 36
	i	59 43
	i	22 01 52
May 13		
COL	iP	22 27 34
HH	iP	22 25 22
NEL	i(P)	22 24 25.2
RC	iP	22 24 22
May 13		
NEL	eP	23 48 35
May 14		
NEL	eP	00 21 25
May 14		
HH	e(P)	01 32 22
NEL	eP	01 31 17
RC	eP	01 31 12
May 14		
RC	eP	01 33 36
May 14		
RC	eP	01 46 28
May 14		
BUT	eP	03 52 28
HH	eP	03 52 16
NEL	iP	03 52 43
RC	eP	03 53 01
May 14		
HH	e(P)	05 34 44
	eL	36 58
May 14		
MONT	iP	06 11 26
May 14		
BC	iP	06 16 04.0
	ipP	17 48.2
	eS	25 42

Date and Station		Phase	h m s
BOZ		iP	06 15 51D
		ipP	17 35
		e(S)	25 23
BUT		eP	06 15 45D
		iP	15 46
		ipP	17 30
		i	18 00
		iS	25 16
		i	25 31
		isS	28 29
		e	34 24
COL		iP	06 13 21C
		epP	15 03
		oPP	15 29
		iS	20 40
		iScS	22 18
		isS	23 32
		eSS	24 26
COLU		iSKS	06 27 35
		i	28 26
		isP	30 49
		esS	36 43
		esSS	39 40
HONO		iP	06 13 13
		ipP	14 48
HH		iP	06 15 34.5C
		ipP	17 18
		e	23 33
		eS	24 52
		iScS	24 56
		i	25 21
		esS	28 00
		i	34 16
		eP'P'	42 18
		eSKSP'	44 57
LOG		iP	06 16 00
		ipP	17 45
		eS	25 34
MONT		iP'	06 23 15C
		iP'	23 39
		ipP'	25 19
		ipP'	25 31
		e	32 43
NEL		iP	06 16 04.2C
		ipP	17 49.6
		i	20 55
PHIL		eSKS	06 27 22
		eSKKS	28 01
		eSP	30 20
		e	30 51
		ePS	31 19
		eSS	36 20
		e	41 06
RC		iP	06 16 17D
		ipP	18 01
		iSKS	25 58
		iS	26 18
SLC		iP	06 16 02
		ipP	17 47
		iS	25 39
		i	25 50
		i	26 11
		e	27 55
		e(SS)	31 35
		eL	39 09
SJ		eP'	06 24 17
		i	24 27
		i	25 01
TUC		iP	06 16 27C
		i	16 54
		ipP	18 13
		esP	19 08
		ePP	20 08
		iSKS	26 13
		i	26 40
		e	27 46
		eL	50 20
WASH		eP'	06 22 04
May 14 NEL		eP	06 42 09
May 14 NEL		eP	06 44 41
May 14 NEL		eP	11 35 07
May 14 BC		iP	12 44 43.3
		ipP	45 06.1
BUT		e(P)	12 43 44
		i	43 59
		ipP	44 07
COL		iP	12 39 30
HH		iP	12 43 23
		i	43 38
		ipP	43 44
LOG		eP	12 44 31
NEL		iP	12 44 44.8
		ipP	45 08.6
RC		iP	12 44 37
		ipP	44 52
TUC		eP	12 45 25
		i	45 49
May 14 BC		iP'	13 53 36.0
BUT		eP	13 48 54
		ipP	49 49
COL		iP	13 46 56
		ipP	47 51
HH		eP	13 48 42
		ipP	49 39
MONT		iP'	13 54 47
		i	54 55
		e	55 44
		e	58 01
NEL		eP'	13 53 43
		epP'	54 09
RC		iP	13 49 07
		ipP	49 59
TUC		eP'	13 53 52
		epP'	54 21
May 14 RC		iP	14 05 19
May 14 COL		eP	16 23 33
		e	23 45
May 14 NEL		eP	17 22 10
		e	23 13
May 14 BC		iP	20 02 56.5
		i	04 24.2
		iL	06 06.0
BOZ		eP	20 04 45
		e(S)	08 54
		eL	10 06
BUT		iP	20 04 42
		i	07 06
		e(S)	08 47
		eL	10 01
COL		iP	20 07 26
COLU		iP	20 07 28
		e	08 31
		eS	13 14
		eL	23 10
LOG		iP	20 04 11
MONT		iP	20 11 48
NEL		iP	20 02 52.7
PHIL		eP	20 08 02
		eL	22 53
RC		iP	20 05 16
SLC		iP	20 04 03
		i	04 39
SJ		iP	20 09 39
TUC		iP	20 03 18
		i	04 02
		i(S)	06 08
		eL	07 06
WASH		eP'	20 07 54
May 14 RC		e(P)	20 48 41
May 14 BOZ		eP	21 34 40
COL		iP	21 30 03
		iS	31 02
		eL	31 32
NEL		iP	21 35 38.2
TUC		eP	21 36 19
May 14 RC		iP	22 35 24
		i	35 36
May 15 COL		eP	00 19 23
May 15 COL		iP	01 55 30
May 15 COL		iP	03 34 03
		eS	34 32
May 15 COL		iP	04 25 46
May 15 COL		eP	05 15 25
May 15 RC		eP	05 38 21
May 15 NEL		eP	06 21 12.
		i	21 30.2
		iL	22 24.1
RC		eP	06 23 40
TUC		eP	06 20 49
		i	20 54
		eS	21 37
		iL	22 13
May 15 BOZ		eP'	07 57 51
COLU		iP'	07 58 49
MONT		eP'	07 58 41
NEL		iP'	07 57 51.5
RC		iP'	07 58 01
		e	58 23
May 15 COL		iP	08 42 41
May 15 RC		iP	10 20 36.8

Date and Station		Phase (GCT)
		h m s
COL	iP	10 20 31
NEL	iP	10 20 36.2
TUC	iP	10 20 45
May 15		
RC	iP	10 58 02
SJ	iP	10 54 07
May 15		
BUT	eP	11 19 42
COL	iP	11 17 40
MONT	eP'	11 26 53
NEL	eP	11 19 53
RC	eP	11 20 15
May 15		
COL	eP	12 37 27
	e	37 49
May 15		
NEL	eP	23 42 08
May 16		
NEL	eP	00 26 22
May 16		
RC	eP	01 06 52
BUT	e(P)	01 07 28
HH	eP	01 07 40
MONT	iP	00 56 48
	i	57 16
	i(S)	58 16
	iL	58 40
NEL	iP	01 06 50.6
	i	06 59
	i	07 11
SJ	i(P)	01 03 38
TUC	eP	01 06 16
May 16		
RC	eP	01 10 52
NEL	iP	01 10 50.3
SJ	eP	01 05 55
May 16		
COL	iP	01 55 05
May 16		
BOZ	e(P)	02 07 08
HH	iP	02 05 02
	i(S)	05 21
	iL	05 24

Date and Station		Phase (GCT)
		h m s
May 16		
HH	e(P)	03 04 11
	i	04 15
May 16		
RC	iP	03 46 59.9
BOZ	eP	03 46 43
BUT	eP	03 46 36
	iP	46 37
	iPcP	46 51
COL	eP	03 43 59
HH	iP	03 46 25
MONT	eP'	03 54 36
NEL	iP	03 46 59.3
	iPcP	47 11.0
SLC	eP'	03 46 55
TUC	eP'	03 47 25
May 16		
COL	eP	06 29 54
MONT	eP	06 19 00
May 16		
COL	eP'	13 26 15
	e	26 56
May 16		
NEL	eP	17 13 02
	e	13 08
May 16		
RC	iP	21 01 20.0
	i	01 25.1
NEL	eP	21 01 17
	e	01 26
May 17		
HH	e(P)	00 04 09
NEL	iP	00 04 34.1
May 17		
NEL	iP	00 24 56
May 17		
COL	eP	03 55 56
May 17		
HH	e(P)	04 34 48
May 17		
COL	eP	04 42 10
	i	42 33
May 17		
COL	eP	05 45 09
May 17		
RC	iP	08 06 58.4

Date and Station		Phase (GCT)
		h m s
COL	iP	08 05 53
HH	iP	08 07 00
NEL	iP	08 06 58.4
May 17		
RC	eP	08 24 28
HH	iP	08 25 31
NEL	iP	08 24 26.2
TUC	eP	08 23 44
May 17		
NEL	eP	12 55 19
TUC	eP	12 55 20
May 17		
RC	iP	14 14 32.0
COL	eP	14 10 08
	iP	10 09
	i	10 12
	eL	12 48
	i	13 30
HH	iP	14 13 23
	e	14 19
NEL	iP	14 14 33.6
May 17		
RC	eP'	15 09 02
	i	09 08.5
	iPP	11 17.6
	iPKS	12 19.7
BOZ	eP'	15 08 54
	iP'	08 59
	iiT	10 37
	i	11 27
	e(PKS)	12 34
	e(SKKS)	17 34
	eS	18 04
	ePS	20 20
	ePPS	21 02
	eSS	27 08
	eSSS	32 24
	eL	41 20
BUT	eP'	15 08 50
	iPT	10 23
	eSKS	15 55
	eSKKS	17 24
	ePS	20 26
	ePPS	21 43
	eSS	27 08
	i	27 52
	eSSS	31 34
	eL	39 28
CHI	e(P')	15 09 16
	ePP	11 23
	ePKS	12 28
	eSKS	16 22
	eSKKS	17 30

Date and Station		Phase (GCT)
		h m s
CHI	eSKKKS	15 18 18
	eSKSP	21 32
	eSS	28 48
	eL	44 32
COL	eP	15 03 17
	i	03 25
	ePP	07 04
	eSKS	13 20
	eSKKS	13 44
	iPS	14 44
	iPPS	15 52
	eSS	20 00
	eSSS	24 46
	eL	29 32
COLU	eP'	15 09 25
	iPP	12 14
	i(PKS)	12 53
	e(SKS)	17 37
	eSKKS	18 23
	iSKSP	22 31
	eSS	30 20
	eSSS	35 16
	eL	46 27
HONO	eSKS	15 14 36
	ePS	17 08
	eSS	22 28
	eSSS	26 39
	eL	31 22
T_L = 18 sec. $A_{max.}$ = 2.5mm.		
HH	eP'	15 08 42
	iPP	10 10
	eSKS	15 21
	e(SKKS)	17 02
	eS	18 03
	ePKKP	18 54
	ePS	19 55
	e	22 38
LOG	eP'	15 09 03
	iP'	09 06
	ePP	10 49
MONT	eP'	15 09 50C
	i	10 01
	i	10 22
	ePP	13 06
	e	14 07
NEL	eP'	15 09 04
	i	09 08.8
	iPP	11 18.4
	iPKS	12 22.8
PHIL	e(P')	15 09 35
	ePP	11 31
	iPKS	12 34
	eSKKS	18 20
	e	19 41
	eSKSP	21 10
	ePPS	23 34
	e	24 44
	eSS	28 36
	e	31 03
	eSSS	34 32
	eL	43 44

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Date and Station		Phase	(GCT) h m s
RC		eP'	15 09 07
		iSKS	16 01
		eS	18 52
SLC		eP'	15 09 11
		i	09 14
		iPP	11 10
		i	11 44
		e(SKS)	16 24
		e	18 18
		eSKS	21 10
		ePPS	22 36
		eSS	28 26
		eSSS	32 56
		eL	42 31
SJ		eP'	15 09 33D
		iP'	09 41
		i	09 49
		i	11 14
		ePP	13 05
		eSKS	17 08
		iSKKS	19 56
		eSKSP	23 42
		ePPS	26 05
		eSS	32 09
		eL	55 04
TUC		eP'	15 09 14D
		iPP	11 50
		iPKS	12 36
		i	13 36
		eSKS	15 43
		eSKKS	17 42
		eSKSP	21 38
		ePPS	23 44
		iPPS	24 04
		eSS	29 54
		eSSS	35 02
		eL	45 20
WASH		eP'	15 09 10
		iP'	09 18
		iPP	11 34
		i	12 30
		e	19 17
		e	20 50
		eSS	29 32
		eL	45 06
May 17			
HH		eP	16 12 07
May 17			
COL		iP	17 18 22
		ipP	18 47
		i	18 53
		i	18 59
HH		iP	17 17 34
		e	17 59
		e	20 31
		e	21 00
MONT		eP	17 06 51
		e	07 12
May 17			
COL		iP	17 42 48
		i	42 52
May 17			
TUC		eP	19 01 12
May 17			
HH		e(P)	19 11 48
May 17			
COL		eP	20 03 41
May 17			
BC		iP	21 35 22.6
BOZ		eP	21 35 00
COL		iP	21 32 09
		i	32 12
HH		iP	21 34 41
NEL		iP	21 35 23.5
May 18			
HH		i(P)	00 04 46
May 18			
NEL		eP	00 36 54
May 18			
HH		i(P)	01 47 28
May 18			
COL		eP	04 49 01
HH		eP	04 51 24
May 18			
HH		eP	05 18 18
NEL		iP	05 18 44.9
		i	22 15.2
		i	22 53
May 18			
COL		eP	05 37 25
		iP	37 27
HH		iP	05 39 28
		ePP	43 54
May 18			
COL		eP	07 34 14
		i	34 23
		i	34 36
		i	35 10
HH		iP	07 36 17
		ePP	39 42
May 18			
TUC		eP	08 11 21
May 18			
HH		e(P)	08 57 15
		e	58 09
May 18			
HH		eP	09 25 10
May 18			
SJ		eP	09 57 27
May 18			
HH		iP	12 04 49
NEL		eP	12 05 24
		i	05 32.3
May 18			
HH		e(P)	14 14 16
May 18			
BC		iP	15 59 36.7
COL		iP	15 58 29
		i	58 33
HH		iP	15 59 38
NEL		iP	15 59 37.1
May 18			
HH		iP	16 03 17
		i	03 29
NEL		iP	16 02 26.1
SJ		eP	16 08 50
May 19			
NEL		eP	00 01 25
May 19			
COL		eP	02 29 47
		i	29 57
HH		iP	02 30 40
MONT		eP	02 31 30
		i	31 43
NEL		iP	02 30 55.5
May 19			
NEL		iP	02 34 21.8
		i	34 37.4
May 19			
BOZ		eP	03 20 24
COL		eP	03 19 32
HH		eP	03 20 11
NEL		eP	03 21 37
May 19			
BH		iP	03 28 06
		iS	28 14
May 19			
COL		iP	03 50 02
May 19			
NEL		iP	04 30 44
May 19			
BC		iP	07 18 16.4
		ipP	18 43.4
BOZ		iP	07 18 46
		ipP	19 13
		isP	19 38
COL		eP	07 20 00
		epP	20 29
		e(PPP)	25 13
COLU		iP	07 16 30
		ipP	16 53
		i(sP)	17 18
		ePP	18 29
		iS	23 55
		esS	24 42
		isS	24 43
		iScS	26 08
		eSS	27 55
		eL	32 16
HH		iP	07 19 05
		ipP	19 34
		e(PP)	22 29
MONT		iP	07 08 08
NEL		iP	07 18 15.2
		ipP	18 42.2
SJ		iP	07 14 17
		i	14 24
		iPP	15 45
		iS	19 53
		e	20 38
		eL	22 44
TUC		iP	07 17 45
		ipP	18 11
WASH		iP	07 17 00
		epP	17 25
May 19			
NEL		eP	07 46 20
		epP	46 50
May 19			
COL		eP	14 26 51
May 19			
COL		iP	16 31 28
		e	34 02
May 19			
NEL		iP	21 06 54.3
May 19			
COL		iP	22 19 55
May 19			
COL		iP	22 35 39
May 19			
HH		e(P)	23 25 37

Date and Station		Phase (GCT)
		h m s
NEL	eP	23 24 05
May 20		
COL	iP	03 45 57
May 20		
HH	e(P)	07 09 22
May 20		
NEL	eP	07 22 53
May 20		
COL	eP	09 34 36
May 20		
BOZ	e(P)	10 53 35
HH	e(P)	10 54 19
TUC	e(P)	10 53 56
May 20		
MONT	eP	12 30 32
May 20		
COL	iP	20 40 09
HH	iP	20 44 50
NEL	iP	20 46 22.4
	ipP	46 46.0
May 20		
HH	e(P)	23 02 31
May 20		
COL	eP	23 56 16
	ipP	56 50
May 21		
COL	iP	00 51 22
May 21		
COL	iP	01 30 05
May 21		
BC	iP	01 42 46.9
BOZ	eP	01 42 33
COL	iP	01 39 57
	i	40 04
	i	40 23
HH	iP	01 42 16
	i	42 24
	i(PP)	44 58
MONT	eP'	01 50 20
NEL	iP	01 42 47.3
TUC	eP	01 43 11
May 21		
BC	iP	01 47 59.1
COL	eP	01 45 06
HH	iP	01 47 24
NEL	iP	01 47 55.2
May 21		
HH	iP	02 05 25
NEL	iP	02 05 56.4
May 21		
BC	iP	03 42 39.1
BOZ	eP	03 42 24
	iP	42 27
COL	eP	03 39 48
	iP	39 51
	i	41 33
	iS	47 48
	eL	54 21
HONO	eL	03 53 40
HH	iP	03 42 07
	i	47 31
MONT	eP'	03 50 04
	ePP	51 10
NEL	iP	03 42 39.7
TUC	eP	03 43 03
	iP	43 04
	e	43 22
	eL	04 11 04
May 21		
HH	i(P)	03 55 15
May 21		
COL	iP	04 05 32
May 21		
HH	iP	04 10 57
NEL	eP	04 11 28
	e	11 29
May 21		
COL	eP	04 16 31
HH	iP	04 18 50
NEL	iP	04 19 20.9
	e	19 27
May 21		
COL	eP	04 59 25
NEL	eP	05 05 14
	e	05 19
May 21		
HH	eP	08 24 49
NEL	eP	08 25 33
May 21		
HH	i(P)	08 56 02
COL	eP	08 59 49
May 21		
COL	eP	09 06 09
HH	eP	09 02 07
	e	05 39
	i	06 13
NEL	eP	09 02 38
May 21		
HH	e(P)	09 16 16
May 21		
BC	iP	10 45 01.7
BOZ	eP	10 44 33
COL	iP	10 41 11
	eS	45 20
	eL	47 42
HH	iP	10 44 08
NEL	iP	10 45 02.7
TUC	iP	10 45 39
May 21		
HH	e(P)	12 26 47
May 21		
HH	i(P)	12 50 58
NEL	iP	12 51 28.7
May 21		
BC	eP	15 26 02
COL	eP	15 29 34
HH	eP	15 27 08
MONT	iP	15 22 05
NEL	eP	15 26 05
	i	26 16.5
SJ	eP	15 22 36
May 21		
BC	iP'	15 46 33.6
BOZ	iP'	15 46 36
HH	iP'	15 46 23
MONT	iP'	15 47 06
NEL	iP'	15 46 34.5
	i	46 47
	i(PP)	48 38.0
May 21		
BC	iP	15 51 04.0
BOZ	iP	15 51 44
COL	iP	15 51 41
	ipP'	52 08
	e(S)	16 02 20
	eL	16 14
HH	iP	15 51 41
	epP	52 02
	ePP	54 49
	ePKKP	16 09 39
	eP'P'	18 10
MONT	eP	15 52 55
NEL	iP	15 51 02.9
TUC	iP	15 51 10
	ipP	51 31
	eL	16 13 38
May 21		
COL	iP	16 08 13
May 21		
HH	eP	17 14 36
	i	14 42
NEL	eP	17 15 08
	e	15 14
May 21		
COL	eP	18 53 40
HH	e(P)	18 56 38
May 21		
HH	e(P)	20 15 56
May 21		
COL	iP	22 57 17
NEL	eP	22 56 43
TUC	iP	22 56 48
May 22		
NEL	eP	02 07 43
May 22		
BOZ	eP	05 09 15
COL	iP	05 08 27
HH	eP	05 09 07
NEL	iP	05 10 08.1
TUC	eP	05 10 13
May 22		
BOZ	eP	12 47 39

Date and Station		Phase	(GCT) h m s
HH		e(P)	12 48 13
		e	48 33
		e(S)	50 21
		eL	50 45
May 22			
BC		eP	14 18 15
BOZ		eP	14 18 15
COL		iP	14 16 07
HH		eP	14 18 01
		i	18 19
MONT		eP'	14 25 16
NEL		iP	14 18 18.8
TUC		eP	14 18 40
		eL	58 18
May 22			
COL		iP	15 01 58
May 22			
BC		eP	20 55 27
		i	55 36.1
NEL		eP	20 55 21
		e	55 38
May 22			
NEL		iP	21 07 56.5
TUC		i(P)	21 09 24
		i	09 45
		i(S)	10 19
		iL	10 54
May 22			
BC		iP	21 12 36.1
		i	13 04.9
		e	13 01
HH		eP	21 12 58
NEL		iP	21 12 34.1
		i	12 57.6
TUC		e(P)	21 13 56
		i	14 14
		eS	14 46
		i	15 14
		iL	15 27
May 22			
BC		iP	21 17 10.3
		i	17 37.9
		i	18 02.4
		i	18 20.2
HH		eP	21 17 27
NEL		i(P)	21 17 10.3
		i	17 31.0
May 22			
NEL		iP	23 28 25.4
May 22			
BC		eP	23 30 38
		i	31 31.3
HH		eP	23 30 58
NEL		iP	23 30 37.0
		i	30 52.3
		i	31 06.6
May 22			
BC		iP	23 55 23.9
COL		iP	23 58 25
		ipP	58 51
HH		iP	23 56 17
		ipP	56 41
		eP'P'	00 24 22
MONT		eP	23 48 10
		eS	50 19
NEL		iP	23 55 22.8
		ipP	55 47.4
SJ		iP	23 51 26
		iPP	52 19
TUC		iP	23 54 49
		ipP	55 13
May 23			
COL		eP	04 29 30
May 23			
COL		iP	04 36 06
May 23			
SJ		iP	04 43 09
May 23			
COL		iP	05 12 51
May 23			
COL		iP	05 44 26
May 23			
COL		eP	07 26 33
		e	27 08
May 23			
COL		eP	12 11 28
		i	11 52
		iS	12 22
		iL	12 42
HH		e(P)	12 14 35
		eL	20 42
May 23			
COL		eP	16 02 13
May 23			
COL		eP	16 40 24
HH		iP	16 42 16
May 23			
COL		eP	16 43 45
HH		iP	16 45 54
May 23			
HH		eP	16 58 45
May 23			
COL		iP	17 02 49
HH		eP	17 05 47
		i	08 06
NEL		e(P)	17 06 45
May 23			
BC		eP	17 54 45
		i	54 50.6
COL		iP	17 54 39
HH		eP	17 55 10
		ePP	59 02
NEL		eP	17 54 44
		i	54 47.1
		i	55 38.8
		iPP	58 16.4
TUC		eP	17 54 56
May 23			
HH		e(P)	21 09 49
May 23			
COL		iP	21 37 49
		ipP	38 23
HH		e(P)	21 38 09
NEL		iP	21 37 13.7
		ipP	37 46.8
TUC		eP	21 37 18
		epP	37 51
May 23			
MONT		iP	22 48 29
May 23			
COL		e(P')	23 00 29
		i	00 40
May 23			
BOZ		iP	23 55 57
May 24			
HH		e(P)	00 08 21
May 24			
NEL		eP	00 55 23
May 24			
BC		iP	01 23 10.7
BUT		eP	01 22 39
COL		iP	01 19 31
HH		iP	01 22 24
		iPcP	23 12
NEL		iP	01 23 12.6
TUC		eP	01 23 41
May 24			
BOZ		e(P)	03 11 50
BUT		e(P)	03 11 50
HH		eP	03 11 49
May 24			
COL		eP	06 00 51
May 24			
COL		iP	06 24 34
		i	25 17
NEL		eP	06 23 58
		e	26 44
May 24			
BC		eP	06 40 52
HH		eP	06 41 54
NEL		iP	06 40 50.4
SJ		e(P)	06 37 47
May 24			
COL		iP	06 58 31
HH		e(P)	06 58 40
May 24			
BC		eP	08 07 08
COL		e(P')	08 15 41
		e	16 08
NEL		eP	08 07 27
May 24			
HH		e(P)	09 42 01
May 24			
NEL		eP	11 14 16
		i	15 13
May 24			
HH		e(P)	11 33 33
NEL		iP	11 31 38.5
TUC		eP	11 30 41
May 24			
COL		eP	13 10 38
May 24			
NEL		iP	15 12 42.0

Date and Station		Phase (GCT)
		h m s
May 24		
BUT	eP	15 43 33
May 24		
HH	iP	16 43 43
NEL	iP	16 42 54.0
May 24		
COL	eP	17 37 18
May 24		
NEL	eP	19 43 07
May 24		
COL	iP	21 00 28
May 24		
HH	eP	21 21 04
May 25		
HH	e(P)	00 39 53
May 25		
HH	e(P)	01 08 04
May 25		
HH	iP	01 52 14
	ipP	52 44
NEL	iP	01 51 27.3
	ipP	51 56.5
TUC	eP	01 54 11
	e	54 20
May 25		
BC	iP	01 55 08.2
HH	e(P)	01 56 58
NEL	eP	01 55 06
	i	55 38.6
May 25		
BUT	iP	02 16 08
	i	17 53
	iS	21 55
	eL	24 04
WASH	iP	02 14 53
	e(S)	19 45
	eL	25 41
May 25		
BUT	e(P)	03 05 24
May 25		
BC	iP	03 15 11.6
BOZ	iP	03 16 02
	ePP	17 26
COL	iP	03 19 29
	iPcP	20 04
	eL	45 14
COLU	iP	03 14 03
	ePP	14 41
COLU	iS	03 18 11
	eL	20 03
HH	iP	03 16 28
	e	17 24
	iPcP	18 36
	eS	22 36
LOG	iP	03 15 36
NEL	iP	03 15 10.2
PHIL	eP	03 15 08
	e	15 48
	eS	20 04
	eL	21 45
SLC	eP	03 15 29
SJ	eP	03 14 26
	eL	20 21
TUC	iP	03 14 27
	i	14 42
	iPP	15 04
	eS	19 10
	iS	19 12
	eL	22 08
May 25		
BC	iP	04 06 05.2
	i	06 16.6
BOZ	iP	04 05 33
	i	06 10
COL	iP	04 02 02
	i	02 06
	eL	06 09
HH	iP	04 05 06
	e(PP)	06 27
	iPcP	07 53
	eScP	11 16
LOG	eP	04 05 50
NEL	iP	04 06 07.1
	i	06 14.0
	iScP	12 00.1
SJ	eP	04 10 50
TUC	iP	04 06 46
May 25		
BC	iP	11 44 53.5
COL	iP	11 45 20
HH	eP	11 45 26
NEL	iP	11 44 53.3
May 25		
HH	iP	11 51 34
May 25		
COL	eP	12 25 27
May 25		
COL	eP	12 35 35
HH	iP	12 35 06
LOG	eP	12 35 25
May 25		
COL	iP	12 39 57
May 25		
BC	eP	14 07 06
NEL	iP	14 07 04.4
May 25		
COL	iP	14 40 50
May 25		
BC	iP	18 31 25.7
	i	31 42.8
BOZ	iP	18 30 58
BUT	iP	18 30 51
COL	iP	18 27 34
COLU	iP	18 33 23
HH	iP	18 30 34
LOG	eP	18 31 14
MONT	iP'	18 40 18
	e	41 02
NEL	iP	18 31 26.1
	iPP	33 46.5
May 26		
HH	iP	00 23 22
NEL	eP	00 21 48
May 26		
COL	eP	03 02 29
May 26		
COL	eP	04 52 43
HH	eP	04 54 52
May 26		
COL	iP	05 00 45
NEL	iP	05 01 53.7
May 26		
HH	iP	05 13 24
NEL	iP	05 13 39.0
May 26		
BH	iP	06 11 37
	eS	11 47
BC	iP	06 19 10.7
COL	eP	06 22 45
COLU	iP	06 16 41
	eL	21 20
HH	iP	06 20 04
LOG	e(P)	06 19 21
MONT	iP	06 18 02
NEL	iP	06 19 09.7
	i	19 23.1
SLC	eP	06 19 17
SJ	eP	06 14 56
	e	17 27
	eS	17 40
TUC	iP	06 18 32
	e	18 44
May 26		
COL	eP	06 31 30
May 26		
BC	iP	07 08 26.0
BOZ	iP	07 08 31
COL	eP	07 11 10
HH	iP	07 08 53
	ePcP	10 12
LOG	eP	07 08 23
MONT	iP	07 05 51
NEL	iP	07 08 25.0
SLC	iP	07 08 20
SJ	eP	07 01 12
	e(S)	02 34
	eL	02 39
TUC	iP	07 07 54
May 26		
SJ	e(P)	07 07 33
	e(S)	08 23
	iL	08 31
May 26		
COL	eP	08 43 21
May 26		
HH	e(P)	10 04 40
May 26		
HH	e(P)	10 11 52
May 26		
COL	iP	12 30 34

Date and Station		Phase (GCT) h m s
NEL	eP	12 36 28
May 26		
BC	e(P)	12 58 05
BOZ	e(P)	12 57 30
COL	iP	12 54 38
HH	eP	12 57 12
MONT	iP'	13 05 37
NEL	eP	12 57 51
	ePcP	58 04
May 26		
BC	eP'	13 34 22
	iPP	37 33.6
	ePKS	38 00
COL	eP	13 28 46
	ePP	32 28
HH	eP'	13 33 55
NEL	eP'	13 34 16
	i	34 28.9
	iPP	37 33
	iPKS	37 55
SJ	iP'	13 34 53
May 26		
BC	eP	16 01 15
	i	01 26.0
COL	iP	16 00 37
HH	e(P)	16 01 27
NEL	iP	16 01 15.0
May 26		
WASH	eP	16 23 17
	e	25 04
May 26		
BC	iP	16 36 20.7C
	i	36 25.0
	iPP	40 00.5
BOZ	eP	16 36 41
	iP	36 45
BUT	iP	16 36 39
	eSKS	47 16
	i(S)	48 06
	ePS	48 44
	e(PPS)	49 33
	eSS	54 12
	eSSS	58 04
	eL	17 02 12
CHI	ePP	16 42 33
	ePPS	52 02
	eL	17 13 31

Date and Station		Phase (GCT) h m s
COL	iP	16 35 41C
	ePP	38 53
	iS	46 02
	eSS	51 22
	eSSS	54 38
	eL	57 48
HONO	iP	16 32 19D
	i	32 48
	eS	39 37
	i	40 23
	i	40 34
	e(ScS)	42 13
	eL	44 36

T_L = 16 sec. $A_{max.}$ = 3.5mm.

Date and Station		Phase (GCT) h m s
HH	eP	16 36 33
	ePP	40 24
	e	41 03
	eSKS	47 08
	eS	47 46
	e(PPS)	49 17
LOG	iP	16 36 40
	e	40 05
MONT	ePP	16 43 40
NEL	iP	16 36 20.1C
	i	36 22.8
	i	37 31.1
	iPP	39 57.8
PHIL	ePP	16 43 41
	e	48 04
	eSKS	49 06
	eSKKS	50 55
	ePS	53 44
	eSS	17 00 12
	eSSS	05 44
	eL	11 14
SLC	e(P)	16 36 34
	iP	36 39
	i	37 01
	ePP	40 27
	eSKS	47 13
	eS	48 04
	e(PS)	49 03
	ePPS	49 52
	eSS	54 02
	e(SSS)	57 53
	eL	17 01 58
SJ	eP'	16 42 33
	ePP	44 55
	ePKS	46 00
	e	46 35
	e	47 30
	eSKKS	52 06
	eSKKKS	52 35
	ePPS	57 08
	e	57 50
	eSS	17 03 30
	eL	24 06

Date and Station		Phase (GCT) h m s
TUC	eP	16 36 32
	e	37 40
	ePP	40 16
WASH	eP	16 43 38
	ePPS	54 31
	eL	17 00 07
May 26		
COL	iP	18 30 50
May 26		
COL	iP	20 22 05
May 26		
HH	eP	20 23 18
May 26		
COL	iP	21 29 38
HH	eP	21 31 32
May 26		
BC	eP	21 34 02
	i	34 16.2
	iPP	37 42.0
BOZ	e(P)	21 34 27
COL	iP	21 33 28
HH	eP	21 34 18
NEL	iP	21 34 05.7
	iPP	37 41.4
SLC	e(P)	21 34 20
TUC	eL	22 04 04
May 26		
HH	e(P)	21 43 01
	e	43 41
	eL	43 46
May 26		
BC	iP	22 08 02.2
NEL	iP	22 08 00.7
TUC	eP	22 07 18
May 26		
HH	e(P)	22 45 29
May 26		
NEL	iP	23 43 05
May 27		
NEL	eP	00 16 27
	e	16 37
May 27		
COL	iP	01 33 19
May 27		
COL	eP	03 10 20

Date and Station		Phase (GCT) h m s
May 27		
NEL	eP	03 59 01
May 27		
COL	iP	05 43 55
	e	44 46
May 27		
BC	eP	07 21 07
COL	iP	07 20 30
HH	e(P)	07 21 21
NEL	eP	07 21 03
May 27		
NEL	eP	08 15 27
May 27		
COL	eP	08 31 22
May 27		
COL	iP	10 20 45
	i	20 56
May 27		
HH	eP	11 33 39
May 27		
BC	eP	12 39 48
COL	iP	12 39 10
HH	eP	12 40 01
NEL	iP	12 39 48.2
	i	39 56.6
	ePP	43 23
May 27		
BC	iP'	19 25 12.4
BOZ	eP'	19 25 10
COL	e(P')	19 24 48
HH	iP'	19 25 03
	e	28 17
MONT	iP'	19 26 02
	i	26 56
NEL	iP'	19 25 12.6
	i	26 08.9
TUC	e(PP)	19 28 19
May 28		
COL	eP	02 14 33
May 28		
NEL	eP	04 39 49
May 28		
MONT	iP	06 22 46

Date and Station		Phase (GCT) h m s
May 28		
BC	iP	06 32 36.6D
	ipP	33 20.4
	e(S)	42 32
BOZ	iP	06 33 05C
	ipP	33 50
	eS	43 14
	iSP	44 13
BUT	iP	06 33 09C
	ipP	33 54
	isP	34 21
	i	34 59
	ePP	36 52
	esPP	37 46
	ePPP	38 38
	iS	43 18
	isS	44 43
	e(SS)	49 38
	eSSS	53 48
	eL	56 32
CHI	eP	06 32 03
	epP	32 45
	iS	41 22
	eSP	41 56
	esS	42 32
	e(SS)	47 26
	eL	51 38
COL	eP	06 35 10
	ipP	35 54
COLU	iP	06 31 09C
	ipP	31 52
	ePP	33 26
	iS	39 42
	iScS	40 43
	e	43 23
	eL	46 40
	eP'P'	59 42
HH	iP	06 33 21D
	ipP	34 05
	ePP	37 08
	iSKS	43 33
	iS	43 57
	iPKKP	50 50
	i	52 20
	eP'P'	59 00
NEL	iP	06 32 35.6D
	ipP	33 09.7
	isP	33 20
PHIL	iP	06 31 39S
	epP	32 20
	ePP	34 43
	ePPP	36 02
	eS	40 34
	iS	40 41
	e(ScS)	41 21
	isS	41 54
	eSS	44 47
	eSSS	48 39
	eL	52 59

Date and Station		Phase (GCT) h m s
SLC	iP	06 32 47C
	ipP	33 33
	isP	33 52
	iPP	35 55
	iS	42 50
	i	43 05
	esS	44 05
	eSS	48 19
	eL	58 15
SJ	iP	06 29 07C
	ipP	29 47
	ePcP	30 35
	iPP	31 05
	ePPP	32 19
	eS	35 50
	esS	37 11
	eScS	38 41
	eSS	39 24
	eL	40 39
TUC	iP	06 32 08
	ipP	32 52
	iS	41 37
	epS	42 02
	esS	42 45
	e	47 12
	eL	50 53
WASH	iP	06 31 37
	ipP	32 17
	iPPP	35 55
	eS	40 33
	isS	41 49
	eL	48 55
	iP'P'	59 35
May 28		
BC	eP	06 51 12
NEL	iP	06 51 12.8
	i	52 01.0
	i	53 43.4
May 28		
BC	e(P)	06 59 15
	e	07 02 25
MONT	e(P)	06 59 35
	i	07 00 41
NEL	iP	06 59 08.7
	i	59 22.5
May 28		
NEL	iP	07 02 30.1
May 28		
COL	iP	11 02 19
May 28		
COL	eP	17 14 32
May 28		
HH	e(P)	17 45 11
May 28		
HH	iP	17 47 39

Date and Station		Phase (GCT) h m s
May 28		
BC	iP	19 45 04.3
BOZ	e	19 47 35
	eL	50 30
HH	eP	19 47 31
	eL	51 21
NEL	iP	19 45 04.1
	iS	45 35.2
SLC	e	19 46 41
	iL	48 20
TUC	eP	19 46 01
	e	46 08
	e	46 38
	eS	47 10
	iS	47 21
	iL	47 54
May 28		
BC	eP	22 24 06
COL	iP	22 24 32
	epP	26 38
HH	e(P)	22 24 40
NEL	iP	22 24 07.5
	epP	26 12
May 29		
BC	iP	01 26 55.1
COL	iP	01 27 20
	epP	29 26
	i	29 34
NEL	iP	01 26 54.6
SJ	iP'	01 32 51
TUC	iP	01 26 59
May 29		
NEL	iP	01 44 39.9
May 29		
BC	iP	02 41 42.0
	i	41 46.5
BOZ	eP	02 41 12
BUT	eP	02 41 04
COL	iP	02 37 50
HH	iP	02 40 49
	epP	42 27
	ePP	43 11
	iScP	44 58
MONT	iPP	02 53 17
NEL	iP	02 41 42.7
	i	41 47.0
	ipP	43 08

Date and Station		Phase (GCT) h m s
SLC	eP	02 41 31
TUC	iP	02 42 12
	i	42 16
May 29		
COL	eP	03 01 11
May 29		
BC	iP'	04 18 37.8
	i	18 39.4
BOZ	iP'	04 18 42
	ePP	21 58
BUT	iP'	04 18 45
COL	eP'	04 19 07
	i	20 08
HH	iP'	04 18 49
MONT	iP	04 10 13
	e	11 12
NEL	eP'	04 18 31
	i	18 37.1
	ePP	21 37
SLC	eP'	04 18 39
TUC	eP'	04 18 28
May 29		
BC	iP	04 46 33.7
	iS	47 30.9
BOZ	e	04 47 42
HH	e(P)	04 47 36
	eL	50 06
NEL	iP	04 46 37.7
	i	47 33
May 29		
HH	e(P)	05 09 35
May 29		
COL	eP	07 02 05
	i	02 16
HH	eP	07 04 55
May 29		
COL	eP	09 14 57
May 29		
COL	eP	10 20 28
	i	22 16
	i	22 32
May 29		
BC	eP	11 16 21
	iP	16 22.2
	ipP	16 34.0

Date and Station	Phase	Phase (GCT) h m s
BOZ	iP	11 15 51
	ipP	16 05
BUT	eP	11 15 43
	ipP	15 55
COL	iP	11 12 24
	eS	17 32
	eL	20 06
COLU	eP	11 18 16
	ipP	18 29
HH	iP	11 15 29
	ipP	15 41
	ePP	17 33
NEL	iP	11 16 22.5
	ipP	16 34.6
SLC	iP	11 16 11
	ipP	16 24
TUC	eP	11 16 53
	ipP	17 05
May 29		
BC	iP	11 24 46.3
HH	eP	11 23 38
	e	27 08
NEL	iP	11 24 47.7
May 29		
HH	iP	12 50 09
	e	50 28
MONT	iP	12 51 03
	i	51 26
May 29		
COL	eP	12 59 03
May 29		
BC	iP	13 38 05.9
BOZ	eP	13 37 15
BUT	eP	13 37 16
	iPP	38 05
	ePcP	39 37
	iS	42 08
	i	42 36
	iScP	43 30
	eL	44 35
CHI	eS	13 46 10
	eScS	49 33
	eL	53 20
COL	iP	13 33 47D
	iS	35 36
	iL	35 48
COLU	eP	13 40 44
	eS	48 21
	e	48 34
	eScS	50 34

Date and Station	Phase	Phase (GCT) h m s
COLU	eSS	13 52 08
	eL	56 28
HONO	e(S)	13 43 31
	eL	45 46
T_L = 11 sec. $A_{max.}$=2mm.		
HH	iP	13 36 58
	e	38 41
	iPcP	40 27
	eScP	44 07
NEL	iP	13 38 07.8
	i	38 13.3
	iPP	39 20
	eScP	44 31
PHIL	eS	13 48 05
	eScS	50 21
	eSS	52 13
	eL	58 05
SLC	eP	13 37 51
	eS	43 01
	eL	45 01
SJ	iP	13 43 03
	eS	52 31
	e	53 38
	eL	14 07 54
TUC	iP	13 38 47
	i	39 03
	ePP	40 15
	iS	44 47
	eL	49 46
WASH	e(P)	13 41 03
	eL	14 00 01
May 29		
COL	eP	14 29 11
HH	e(P)	14 32 28
May 29		
BC	iP	14 51 19.0
BOZ	eP	14 50 39
HH	iP	14 50 11
	e	53 40
NEL	iP	14 51 20.9
TUC	eP	14 52 01
May 29		
BC	eP'	15 53 19
	ePKS	56 43
BOZ	eP'	15 53 14
	ePP	55 25
COL	e(P)	15 48 35
	eSKS	58 34
	eSSS	16 10 36
	eL	17 10

Date and Station	Phase	Phase (GCT) h m s
COLU	eP'	15 54 06
	ePP	57 57
HH	eP'	15 53 06
	ePP	55 03
MONT	eP'	15 53 52C
	i	55 03
NEL	iP'	15 53 18.7
	i	53 25.2
	i	55 43.0
	iPP	56 43.0
SLC	eP'	15 53 20
SJ	eP'	15 54 09
	e	55 37
	ePP	59 25
	eSKS	16 01 23
	eSKKS	05 20
	eSKSP	10 26
	ePPS	13 58
	eSS	20 14
	eL	54 04
TUC	eP'	15 53 30
	ePP	56 04
	iPP	56 06
	iPKS	57 20
	eSKS	16 00 10
	e(PPS)	07 08
	ePKKP	11 38
	eSSS	17 52
	eL	27 10
WASH	eP'	15 53 57
	iP'	54 01
	e	55 01
	eL	16 20 55
May 29		
BC	eP	16 30 24
NEL	eP	16 30 23
May 29		
HH	i(P)	18 30 47
May 29		
COL	iP	18 39 39
	i	40 34
May 29		
COL	iP	19 03 18
May 29		
BC	iP	21 09 50.6
BOZ	eP	21 09 09
	e(S)	14 37
	eL	17 15
BUT	eP	21 08 59
	eS	14 09
	eL	16 30
CHI	eScS	21 20 51
	eL	24 38

Date and Station	Phase	Phase (GCT) h m s
COL	eP	21 05 32
	iP	05 34
	eS	07 24
	iL	07 40
COLU	eP	21 12 13
	eS	20 04
	eL	29 56
HH	eP	21 08 41
	ePcP	12 10
LOG	eP	21 09 30
NEL	iP	21 09 51.3
	iPP	11 05
	i	14 39.3
SLC	eP	21 09 35
	eL	15 23
SJ	eP	21 14 47
	eS	24 20
	eSSS	42 06
	eL	42 43
TUC	iP	21 10 33
	ePcP	12 28
	eL	25 34
WASH	eL	21 34 50
May 29		
BC	eP	21 31 17
	epP	31 48
HH	eP	21 32 05
	epP	32 36
MONT	iP	21 20 23
NEL	iP	21 31 15.8
	ipP	31 46.4
TUC	iP	21 30 46
May 29		
WASH	eP	22 10 52
	i	11 14
	e	15 53
May 29		
BC	eP	22 56 37
	e	56 48
COL	iP	22 52 22
HH	e(P)	22 55 40
NEL	iP	22 56 38.3
	i	56 47.9
TUC	eP	22 57 11
May 29		
HH	e(P)	23 08 03
	i	08 14
	iL	09 12

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Date and Station		Phase (GCT)
		h m s
May 30		
COL	iP	00 34 36
COLU	eP	00 28 13
	eS	32 14
HH	eP	00 32 16
LOG	eP	00 31 53
SLC	eP	00 31 51
SJ	iP	00 24 02
	iS	24 28
	eL	24 38
TUC	eP	00 31 33
May 30		
BC	e(P)	03 53 00
NEL	eP	03 52 58
TUC	eP	03 52 02
May 30		
TUC	eP	04 12 40
	e	12 52
	i	13 40
	iL	14 33
May 30		
HH	e(P)	04 17 08
May 30		
COL	eP	04 28 15
May 30		
NEL	iP	07 12 11.0
	i	15 02.0
May 30		
BC	iP	08 08 32.4
COL	iP	08 05 54
HH	iP	08 08 04
NEL	iP	08 08 32.7
May 30		
BC	eP	08 35 47
	ePPP	40 32
COL	iP	08 36 24
	i	36 36
HH	e(P)	08 36 17
LOG	eP	08 36 15
NEL	iP	08 35 45.9
	iPPP	40 31.4
TUC	iP	08 35 53
May 30		
COL	eP	08 45 13

Date and Station		Phase (GCT)
		h m s
TUC	e(P)	08 40 37
May 30		
BC	iP	09 39 02.8
BOZ	eP	09 38 23
COL	iP	09 34 43
	e	35 20
	eL	36 42
HH	iP	09 37 54
	iPcP	41 23
NEL	iP	09 39 04.3
	eS	45 27
May 30		
COL	eP	10 18 24
HH	e(P)	10 21 26
May 30		
BH	eP'	12 49 48
BC	iP	12 43 24.2D
	iPP	46 26.9
	iSKPP'	13 11 51.4
	e(P'P'P')	29 57
	e	44 21
	i	52 58.9
BOZ	iP	12 43 14C
	i	44 36
	ipP	45 21
	iPP	46 41
BUT	iP	12 43 07C
	ipP	45 08
	iPP	46 32
	i	47 53
	i(PPP)	48 40
	iS	52 32
	iSP	53 20
	i	54 27
	isS	56 14
	i	57 48
	iSS	58 08
	iSSS	13 02 30
	e(P'P')	09 22
COL	iP	12 40 54D
	epP	42 41
	iS	48 21
	iScS	49 42
	iSS	52 30
	i	53 13
	eL	57 17
	i(P'P')	13 09 50
	iP'P'	10 22
	iSKPP'	12 38
COLU	iP'	12 49 11
	ePP	49 47
	iPP	49 48
	ePPP	52 07
	e(SKS)	54 08
	iSKKS	55 28
	eS	56 02

Date and Station		Phase (GCT)
		h m s
COLU	e	12 57 21
	ePS	59 28
	isS	13 00 20
	esPS	01 49
	isPS	01 57
	i(SS)	04 21
	esSS	07 56
	iSSS	08 19
	eL	13 48
CHI	epP	12 46 32
	ePP	48 38
	iSKS	54 08
	iS	55 08
	eSP	56 34
	esS	58 52
	eSS	13 02 20
	eSSS	06 15
	eL	15 18
HONO	iP	12 40 20C
	iPcP	41 16
	iPP	42 25
	i(sP)	43 04
	isP	43 20
	iScP	44 18
	e(PcS)	45 20
	iS	47 20
	i	47 40
	iScS	49 13
	isS	50 46
	iL	54 16
T_P=1 sec. A=2.5mm.		
T_S=4 sec. A=4mm.		
T_L=12 sec. $A_{max.}$=2.5mm.		
HH	iP	12 42 59D
	ipP	44 55
	iPP	46 10
	iS	52 20
	iSP	52 57
	i	54 08
	esS	55 42
	e	56 09
	iPKKP	13 01 36
	eP'P'	09 19
	e(SKPP')	11 29
	eP'P'P'	29 34
LOG	eP	12 43 21D
	ipP	45 26
	ePP	46 50
	eS	52 53
	e(SP)	54 15
	ePKKP	13 01 15
	eP'P'	09 12
	eSKPP'	11 45
	eP'P'P'	29 45
MONT	iP'	12 50 20C
	i(P'P')	13 06 01
NEL	iP	12 43 24.3D
	ipP	45 28.3
	iS	53 05
	i	54 24
	iP'P'	13 09 26

Date and Station		Phase (GCT)
		h m s
NEL	iSKPP'	13 11 41.3
	iP'P'P'	29 54.5
PHIL	ePP	12 49 31
	iPP	49 40
	epPP	51 30
	eSKS	54 37
	e	55 34
	iS	56 10
	eSP	58 05
	ePS	59 03
	eSS	13 03 58
	eSSS	08 03
	e	11 55
	eL	14 38
SLC	iP	12 43 22C
	ipP	45 28
	isP	46 31
	ePPP	48 54
	esPP	49 34
	iS	52 56
	i	54 24
	isS	56 40
	e(sPS)	58 00
	iSS	59 01
	eSSS	13 02 53
	eL	06 04
	eP'P'	09 11
	iSKPP'	11 58
SJ	e(P')	12 49 37
	iP'	49 45
	ipP'	52 17
	e	55 30
	eSKS	56 18
	iPKKP	58 04
	e	58 33
	eS	59 22
	eSP	13 01 14
	iSKKP	02 03
	eSPP	03 10
	eSS	08 49
	e	11 00
	eSSS	13 25
	eL	23 14
TUC	iP	12 43 45
	i	44 28
	ipP	45 48
	i(sP)	46 42
	iPP	47 28
	eSKS	53 22
	iSKS	53 27
	iS	53 52
	iSP	55 05
	i	55 46
	esS	57 23
	isS	57 30
	isSP	58 34
	eSS	13 00 12
	eSSS	03 38
	eSKPP'	11 35
WASH	ePP	12 49 27
	iPP	49 40
	ipPP	51 34
	eSP	57 52

Date and Station		Phase	(GCT) h m s
WASH		i	12 58 08
		iaPS	13 01 42
		iSS	04 32
		eL	16 24
May 30			
COL		iP	13 01 07
May 30			
COL		iP	13 09 50
		ipP	10 22
		i	12 28
May 30			
NEL		eP	13 25 30
May 30			
BOZ		eP	13 44 28
May 30			
BOZ		eP	15 01 51
May 30			
BC		iP	17 06 14.2
COL		iP	17 06 40
		i	07 15
		ipP	08 40
HH		iP	17 06 46
NEL		iP	17 06 13.2
		e	06 48
TUC		iP	17 06 20
May 30			
HH		eP	17 56 23
May 30			
BOZ		eP	21 30 33
		eL	32 24
BUT		eP	21 30 44
		i	32 47
HH		eP	21 30 50
		iL	33 35
LOG		eP	21 29 51
		e(S)	31 13
		eL	31 23
SLC		eP	21 30 05
May 30			
HH		e(P)	22 40 53
May 30			
BC		iP	23 41 10.3
		ePP	45 19
		i	46 08.4
		iPKKP	56 55.4
BOZ		e(P)	23 41 14
		ePP	45 19
		iPKKP	56 37
BUT		ePKKP	23 56 38
CHI		e	23 54 33
		ePS	57 51
		ePPS	59 21
		eSS	00 04 29
		eL	25 13
COL		iP	23 39 36
		iS	50 00
		ePPS	51 15
		e	54 20
		ePKKP	57 29
		eL	00 00 38
COLU		iP'	23 46 11
		ePKS	49 11
		eSKKS	55 28
		eSKSP	58 33
		eSS	00 05 21
		eL	23 21
HH		eP	23 41 02
		ePP	45 18
		iPKKP	56 44
		i	57 01
NEL		iP	23 41 10.0
		i	41 40
		iPP	45 20.8
		iPKKP	56 54.7
PHIL		ePKS	23 49 35
		eSKKS	55 44
		eSKSP	58 52
		ePPS	00 00 37
		eSS	06 15
		e	08 08
		eL	21 36
SJ		iP'	23 46 43
		ePP	50 40
		eSKKS	57 21
		eSKSP	00 01 16
		ePPS	03 51
		eSS	09 32
		eL	34 34
TUC		eP	23 45 15
		i	45 28
		iPP	46 08
		iPS	55 24
		eL	00 16 48
WASH		i(P')	23 46 28
		iPKS	49 50
		e(PPS)	00 31 14
May 30			
TUC		iP	23 56 39
May 31			
HH		eP	01 17 14
May 31			
BC		iP	02 42 27.2
		i	42 34.3
HH		eP	02 43 59
NEL		iP	02 42 23.7
		i	42 30.5
May 31			
NEL		iP	03 10 32.4
May 31			
HH		e(P)	04 58 50
May 31			
NEL		eP	05 35 13
May 31			
COL		eP	06 48 53
May 31			
BC		eP	07 34 47
COL		iP	07 31 03
		i	31 43
HH		iP	07 33 42
		ipP	34 04
NEL		iP	07 34 24.7
		ipP	34 47.5
May 31			
BC		iP	08 59 27.0
HH		iP	08 58 56
NEL		iP	08 59 26.8
May 31			
BC		iP	09 43 21.8
		ipP	44 01.9
		iPP	46 44.9
		eS	53 38
BOZ		eP	09 43 59
BUT		eP	09 43 53
		ePP	47 35
COL		iP	09 43 58
		ePP	47 47
		iSKS	54 19
		iS	54 56
		ePS	55 55
HH		eP	09 43 57
		e	44 21
		iPP	47 45
		eSKS	54 20
		ePKKP	10 01 01
NEL		iP	09 43 20.9
		iPP	46 41
PHIL		eSKS	09 55 55
		e	57 09
		ePS	59 58
		eSPP	10 00 48
		eL	30 48
SLC		iP	09 43 44
		i	44 23
		ePP	47 23
		eSKS	54 06
		iS	54 36
		eL	10 09 10
SJ		eP'	09 49 23
		eSKS	55 59
		eSKKS	57 13
		eS	58 29
		eSPP	10 01 34
TUC		iP	09 43 24
		ipP	43 42
		e	44 03
		ePP	46 47
		iPP	46 48
		iS	53 44
		eL	10 11 10
May 31			
COL		eP	09 55 00
May 31			
BC		eP	14 46 07
COL		iP	14 50 25
		i	51 02
		iPP	51 20
NEL		iP	14 46 07.2
May 31			
BC		iP	14 55 51.6
BOZ		iP	14 55 26
BUT		eP	14 55 17
COL		iP	14 52 20
		eS	58 51
HH		iP	14 55 05
		e	57 34
NEL		iP	14 55 52.4
		iPP	58 42.6
SLC		iP	14 55 55
TUC		iP	14 56 19
May 31			
HH		eP	15 23 17
May 31			
COL		iP	16 42 49
SJ		eP	16 50 08
May 31			
BH		eP	18 00 53
BC		iP	18 05 06.1
BOZ		iP	18 06 03

Date and Station		Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
		h m s		h m s		h m s		h m s
BUT	iP	18 06 06C						
	i	06 28						
	ePPP	09 03						
	iS	13 17						
	eScS	15 35						
	eSS	16 42						
	eL	17 44						
CHI	iP	18 05 10						
	iPP	06 49						
	eS	11 34						
	eScS	15 04						
	eL	16 45						
COL	iP	18 09 04						
	iPP	11 59						
COLU	iP	18 04 14						
	ePP	05 39						
	eL	18 40						
HH	iP	18 06 26						
	e	08 27						
NEL	iP	18 05 07.2						
	iPP	06 55.4						
PHIL	iP	18 05 14S						
	ePP	06 54						
	eS	11 41						
	eL	15 04						
SIC	eP	18 05 30D						
	iP	05 31						
	iPP	07 25						
	eS	12 19						
	eL	16 06						
SJ	iP	18 03 36						
	iPP	04 37						
	eS	08 42						
	eL	10 14						
TUC	iP	18 04 27						
	ePP	05 50						
	iPP	05 56						
	iS	10 22						
	e	13 16						
	eL	14 44						
WASH	iP	18 05 02						
	i(PcP)	06 41						
	e(S)	11 21						
May 31 HH	e(P)	18 29 12						
May 31 HH	e(P)	20 38 49						
SJ	iP	20 33 26						
May 31 COL	iP	20 59 45						
May 31 COL	eP	21 39 44						

Local and Minor Earthquakes

day	hour
BOZ	
May	
7	10.1
15	11.9
19	23.1
BUT	
May	
4	19.5
	22.6
7	10.1
15	11.9
16	02.1;
23	17.6
	18.1
	22.9
26	23.0
28	01.2
	21.8
	22.5
31	22.6
COL	
May	
4	03.5
	05.6
	11.9
6	01.7
7	05.4
8	07.1
	14.7
9	04.1
	22.1
10	06.3
15	03.9
16	10.8
17	05.1
	12.3
	12.7
	16.7
	18.1
20	07.3
23	20.1
	22.2
	22.5
24	20.7
26	20.7
27	10.1
	12.7
28	18.8
29	19.7
30	05.0
	06.2
	20.3
HONO	
May	
14	20.6 (felt Oahu)
24	23.3
MONT	
May	
2	17.5
5	05.7
	08.7
6	01.4
7	00.5

Local and Minor Earthquakes

day	hour
MONT	
May	
7	15.3
	17.6
9	03.7
	06.4
	10.8
10	17.8
	21.8
	22.2
11	01.4
	11.4
	14.7
	18.3
12	07.9
	16.9
14	15.0
15	23.5
16	17.3
17	00.9
	13.8
	19.9
19	11.6
	16.6
21	04.3
22	04.1
	05.9
	15.4
23	12.0
	17.4
24	16.6
25	05.7
	07.2
26	11.5
	16.4
28	14.5
	14.8
29	10.2
	15.1
SLC	
May	
14	22.7
15	22.5
29	04.8
SJ	
May	
2	03.1
3	08.8
	15.4
10	20.8
13	05.2
	08.8
	09.6
	10.0
	11.9
	17.8
	20.4
	21.8
	22.8
14	00.7
	09.8
	23.6
15	04.3
	14.5
16	07.4

Local and Minor Earthquakes

day	hour
SJ	
May	
16	19.0
	20.9
18	00.1
	00.6
19	23.6
20	15.1
22	00.5
	05.8
25	11.2
26	06.5
30	01.3
31	04.9
	08.4
TUC	
May	
3	0.17
	04.2
	05.2
	05.9
	11.5
4	05.5
	05.7
	05.8
	06.8
	07.3
	09.6
5	12.4
	12.7
	12.8
	13.1
8	03.6
	07.3
	07.6
	09.7
9	03.5
	10.6
11	19.8
13	13.5
	13.6
	13.7
	14.2
14	14.9
15	12.6
	17.1
16	00.4
	01.2
	09.5
	09.8
	12.0
17	12.5
	13.7
	15.9
	16.7
	17.0
18	05.0
	06.2
	09.0
19	01.5
	04.7
	08.6
21	04.0
22	01.4
	09.3
	12.8

Local and Minor Earthquakes

day	hour
TUC	
May	
22	20.9
	21.1
	21.4
	21.7
	23.5
	23.5
23	01.7
	02.9
	03.7
	07.2
	07.3
24	20.0
27	03.1
	03.4
29	04.8
	16.7
	20.8
30	19.3
	21.5

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