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U. S. COAST & GEODETIC SURVEY
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SEISMOLOGICAL BULLETIN

August, 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
Aug.	h m s	° ′		° ′		
1	03 22 38*	3	S.	140	E.	Northern New Guinea.
1	06 00 48*	20	S.	69½	W.	Northern Chile. h about 100 km.
1	09 15 40*	12½	S.	66	E.	Indian Ocean.
1	21 32 11**					Loyalty Islands.
2	10 18 53*	39½	N.	118½	W.	Near Fallon, Nevada. Minor property damage. Mag. 5¼-5½.
2	23 28 33*	37	S.	99½	W.	Southeast of Easter Island.
3	18 18 11*	40	N.	25	E.	Northern Greece.
4	13 52 25*	54	N.	169	W.	Fox Islands, Aleutian Islands. h about 200 km.
4	21 35 18**					Kurile Islands.
5	03 48 27**					North central Greece.
5	04 12 54**					Northern Greece aftershock.
5	04 37 34**					Do.
5	05 03 08*	39½	N.	118½	W.	Fallon aftershock.
5	08 49 52*	52	N.	176	E.	Rat Islands, Aleutian Islands. h about 60 km. Mag. 6
5	09 17 41*	36	N.	77½	E.	Northern India.
5	20 39 05**					Dodecanese Islands.
5	23 44 28**					Near northeast coast of New Guinea.
6	11 33 41*	26½	N.	23	E.	Near south coast of Greece.
6	16 19 45*	1	S.	23½	W.	Mid-Atlantic Ocean.
6	19 21 14*	41	N.	16	E.	Southern Italy.
7	09 37 24*	18½	S.	69	W.	Bolivia-Chile border. h about 100 km.
7	15 13 29**					Hindu-Kush region.
7	17 57 00**					East central Kamchatka.
8	06 39 24**					Near coast of Costa Rica.
8	16 30 12*	23½	S.	179	E.	Fiji Islands region. h about 550 km.
9	19 16 48*	53	N.	161	E.	Off east coast of Kamchatka. h about 60 km. Mag. 6½ - 63/4.
9	21 24 13**					Southern Kurile Islands. h about 150 km.
10	01 00 38**					Oaxaca, Mexico.
10	05 34 21*	30	N.	139	E.	South of Honshu, Japan. h about 400 km.
10	13 44 52*	32½	S.	178	W.	Kermadec Islands.
11	07 27 04**					Near south coast of Hokkaido, Japan.
11	08 30 16*	35	N.	24½	E.	Crete.
11	11 12 36*	19½	N.	69½	W.	Near north coast of Dominican Republic. h about 100 km.
12	10 48 03*	16½	S.	169½	E.	New Hebrides Islands.
12	11 35 23**					Central Peru.
12	11 53 20*	6	N.	126	E.	Near south coast of Mindanao, Philippine Islands. Felt at Hinatuan, Zamboanga and Odiongan.

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Aug.	h m s	° ′		° ′		
12	23 18 14*	53	N.	159	E.	Near east coast of Kamchatka.
12	23 42 32*	2	N.	118	E.	Near east coast of Borneo.
14	01 36 43*	51	N.	160½	E.	Off southeast coast of Kamchatka.
14	14 01 01*	18	S.	179	W.	Fiji Islands. h about 550 km.
14	22 56 08**					Ceram Sea.
15	05 38 35**					Salta Province, Argentina.
15	05 40 10**					Near east coast of Kamchatka.
15	23 56 56*	25	N.	122½	E.	Near north coast of Formosa. Felt.
16	09 02 32**					Sinkiang province, China.
16	14 26 44*	21	S.	178½	W.	Fiji Islands. h about 550 km.
16	23 35 10**					Tonga Islands.
17	05 36 44**					Tonga Islands region.
18	04 42 20*	21½	S.	176	W.	Tonga Islands. h about 150 km. Mag. 7. Felt at Apia and Nukualofa.
18	15 04 48**					About 350 miles northwest of Galapagos Islands.
18	17 58 06**					Off southeast coast of Kamchatka.
19	21 03 23**					Near north coast of Turkey.
20	15 29 30**					Southeastern Arabia.
20	19 21 33*	70½	N.	15	W.	Jan Mayen foreshock.
20	20 24 15**					Do.
20	22 59 16*	71	N.	14	W.	Do.
21	00 25 35*	71	N.	13½	W.	Do.
21	04 13 14*	71	N.	14½	W.	Do.
21	06 38 33*	7	N.	126½	E.	Near east coast of Mindanao, Philippine Islands. Felt at Dadiangas, Davao, and Hinatuan.
21	07 19 46*	70½	N.	14	W.	Jan Mayen foreshock.
21	13 05 05*	70½	N.	14	W.	Do.
21	17 40 05*	71	N.	14	W.	Do.
21	22 51 00*	72	N.	13	W.	Jan Mayen Island region.
22	02 51 42*	71½	N.	13½	W.	Jan Mayen aftershock.
22	10 08 02*	71	N.	14½	W.	Do.
22	12 39 38*	71	N.	14	W.	Do.
22	14 09 05**					Samoa Islands region.
22	18 13 43*	21	N.	145	E.	Marianas Islands.
22	18 21 12*	70½	N.	14	W.	Jan Mayen aftershock.
23	09 32 37*	70½	N.	14	W.	Do.
23	11 39 18*	71	N.	15	W.	Do.

Date 1954	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Aug.	h m s	° ′		° ′		
23	12 04 30*	18	N.	83	W.	Near coast of Panama. Felt at Puerto Armuelles.
23	14 35 31**					Panama aftershock. Felt at Puerto Armuelles.
23	14 57 34*	61	N.	148½	W.	Kenai Peninsula. Felt at Anchorage.
24	05 51 31.5	39.5	N.	118.5	W.	Near Fallon, Nevada. Minor damage at Fallon and Lovelock. Mag. 6.8
25	02 17 13*	39½	N.	118½	W.	Fallon aftershock. Mag. 5
26	12 56 15*	39½	N.	118½	W.	Fallon aftershock.
26	18 40 20*	5	S.	153	E.	Off east coast of New Britain.
26	19 17 22*	5	S.	153	E.	New Britain aftershock.
27	10 55 00*	24	N.	143	E.	Volcano Islands. h about 100 km. Mag. 6.7
27	12 21 27*	70½	N.	14½	W.	Jan Mayen aftershock.
28	02 41 52*	86	N.	85	E.	Arctic Ocean.
28	03 47 58*	24	N.	142	E.	Volcano Islands. h about 60 km.
28	10 01 20*	37	N.	141	E.	Near east coast of Honshu, Japan. Felt at Tokyo.
28	23 04 25**					About 300 miles off south coast of Tierra del Fuego, Argentina.
29	03 41 06*	39½	N.	118½	W.	Fallon aftershock.
29	03 58 05*	39½	N.	118½	W.	Fallon aftershock. Mag. 5
30	07 57 23*	44	N.	147½	E.	Kurile Islands. h about 60 km. Mag. 6-6¼.
30	21 15 52*	49½	N.	155½	E.	Kurile Islands.
31	22 20 32	39½	N.	118½	W.	Near Fallon, Nevada. Felt. Mag. 6½.

Date and Station		Phase (GCT)
		h m s
Aug. 1		
COL	iP	00 03 43
Aug. 1		
BC	iP	00 34 36.8
BOZ	eP	00 34 17
COL	iP	00 30 27
HH	iP	00 34 00
NEL	iP	00 34 37.5
SLC	eP	00 34 31
Aug. 1		
COL	iP	03 26 29
Aug. 1		
BC	e(P')	03 40 31
COL	iP	03 35 16
	i	35 30
	i	35 40
HH	e(P)	03 36 41
NEL	eP	03 36 47
	ePP	41 04
SJ	eP	03 42 33
Aug. 1		
BC	eP	06 11 54
	epP	12 25
COLU	eP	06 10 40
HH	eP	06 12 45
MONT	iP	06 01 31
	i(L)	02 59
NEL	iP	06 11 56
	ipP	12 22
	isP	12 34
SLC	eP	06 12 07
	epP	12 35
SJ	iP	06 08 01
	ipP	08 27
Aug. 1		
HH	e(P)	08 01 38
Aug. 1		
BOZ	eP'	09 35 23
NEL	eP'	09 35 55
	iP'	36 01
HH	eP'	09 35 15
	e	35 51
	ePP	38 39
Aug. 1		
BOZ	eP	09 46 44
HH	eP	09 46 36
	e	49 54
NEL	e(P)	09 46 58
SLC	eP	09 46 08
	e	46 52
Aug. 1		
NEL	eP	10 06 43
Aug. 1		
COL	iP	12 40 38
Aug. 1		
COL	iP	14 34 02
Aug. 1		
MONT	eP	15 10 15
	eL	12 09
Aug. 1		
SLC	eP	18 09 04
Aug. 1		
COL	iP	19 05 58
	eL	08 39
HH	e(P)	19 09 23
NEL	eP	19 10 29
Aug. 1		
COL	iP	21 00 40
HH	iP	21 03 01
Aug. 1		
COL	eP	21 42 51
Aug. 1		
BC	iP	21 45 22.0
COL	iP	21 45 19
HH	e(P)	21 45 45
NEL	iP	21 45 20.4
	i	45 28.2
	e	46 20
SJ	e(P')	21 50 06
Aug. 1		
NEL	eP	21 59 57
Aug. 2		
BC	iP	00 48 41.2
NEL	iP	00 48 38.1
Aug. 2		
BC	e(P)	01 00 15
COL	eP	01 02 24
NEL	eP	01 00 16
Aug. 2		
COL	iP	01 17 17
Aug. 2		
BC	i(P)	09 09 40.0
BOZ	eP	09 10 10
HH	iP	09 10 26
	e	11 10
NEL	iP	09 09 39.8
	e	10 00
SLC	eP	09 09 50
Aug. 2		
BOZ	eP	10 20 58
	e	22 58
	eL	23 42
BUT	eP	10 20 51
	i	21 30
	iS	22 04
	iL	22 24
CHI	eP	10 24 05
	eS	28 17
	eL	31 02
COL	iP	10 25 10
	e	28 05
HH	iP	10 21 12
	iL	23 49
NEL	iP	10 20 04
SLC	eP	10 20 12
	i	20 35
	i(S)	20 58
	iS	21 14
	eL	21 39
WASH	e	10 34 55
	e	35 50
	eL	38 12
Aug. 2		
COL	eP	11 53 57
HH	e(P)	11 52 19
SJ	eP	11 46 50
Aug. 2		
MONT	eP	16 22 38
	e	23 39
	eL	24 33
Aug. 2		
HH	eP	18 21 44
NEL	iP	18 22 08.7
Aug. 2		
BC	iP	23 40 07.0
	e	40 09
	e	40 17
BOZ	eP	23 40 59
	i	41 06
	e	41 16
BUT	eP	23 41 03
	eS	51 20
	ePS	52 09
	eSS	56 38
	e	57 35
	eL	00 03 37
COLU	eP	23 40 04
	eS	49 27
	eL	00 04 50
HH	eP	23 41 14
	e	45 15
MONT	iP	23 34 56
NEL	eP	23 40 05
	iP	40 06.8
	i	40 14.7
PHIL	e(S)	23 50 40
	e	53 39
	eL	00 02 00
SLC	eP	23 40 32
	e	41 13
SJ	iP	23 39 08
TUC	eP	23 39 42
Aug. 3		
BOZ	e(P)	00 28 15
Aug. 3		
NEL	e(P)	00 56 26
	e	57 02
TUC	eP	00 56 11
Aug. 3		
HH	iP	01 10 09
Aug. 3		
HH	e(P)	03 54 18
Aug. 3		
TUC	eP	05 44 57
Aug. 3		
BOZ	eP	06 25 11
BUT	eP	06 25 14
HH	iP	06 25 19
Aug. 3		
HH	e(P)	07 17 51
Aug. 3		
HH	e(P)	08 05 11
Aug. 3		
COL	iP	08 26 27

Date and Station		Phase (GCT)
		h m s
HH	eP	08 27 35
Aug. 3		
COL	iP	10 41 07
	e	41 27
Aug. 3		
HH	eP	11 40 01
Aug. 3		
COL	eP	11 50 28
Aug. 3		
COL	eP	13 09 59
Aug. 3		
COLU	eP	17 21 24
HH	eP	17 22 34
SJ	eP	17 15 11
	i	15 18
	i(S)	15 50
	iL	16 10
Aug. 3		
MONT	iP	17 51 07
	iS	51 37
	iL	51 50
NEL	eP	18 01 44
Aug. 3		
BUT	eP	18 30 57
	eS	39 43
	eL	56 24
BOZ	eP	18 30 54
	e	31 24
COL	iP	18 29 58
	eS	39 48
	eL	51 44
COLU	eP	18 30 17
	i	30 21
HH	eP	18 30 47
NEL	eP	18 32 02
	e	32 10
SJ	eP	18 30 19
TUC	e(P)	18 32 02
	eL	19 12 03
Aug. 3		
BOZ	eP	21 27 26
	e	29 43
BUT	eP	21 27 20
	e	27 31
	e(S)	28 54
	iL	29 06
HH	e(P)	21 27 33
	eL	29 56

Date and Station		Phase (GCT)
		h m s
TUC	eP	21 27 54
	iL	29 53
Aug. 4		
TUC	eP	00 00 43
Aug. 4		
HH	e(P)	03 02 07
Aug. 4		
BC	eP	04 41 57
HH	e(P)	04 41 10
NEL	eP	04 41 58
TUC	eP	04 42 05
Aug. 4		
COL	eP	07 46 52
Aug. 4		
BC	eP	08 14 32
NEL	iP	08 14 34.7
Aug. 4		
HH	eP	11 12 05
Aug. 4		
BC	eP	13 59 52
	iP	14 00 41.1
BOZ	iP	13 59 21
BUT	eL	14 07 55
COL	iP	13 55 52
	e	56 10
	eS	59 11
	eL	14 01 56
HH	iP	13 58 50
	iPcP	14 01 22
	iScP	04 51
NEL	eP	13 59 52
	e	14 00 09
	epP	00 40
SLC	eP	13 59 46
SJ	eP	14 04 31
TUC	eP	14 00 29
	e(S)	07 32
	eL	15 47
Aug. 4		
COL	eP	13 17 35
Aug. 4		
HH	iP	14 23 04
MONT	iP	14 11 12
	iL	11 55
Aug. 4		
HH	e(P)	15 24 20

Date and Station		Phase (GCT)
		h m s
Aug. 4		
BC	iP	18 28 49.2
	e	29 14
COL	iP	18 28 12
	ipP	28 38
	esP	28 54
HH	eP	18 29 02
NEL	iP	18 28 48.8
	i	29 15.9
SLC	eP	18 28 30
Aug. 4		
COL	iP	21 03 25
Aug. 4		
SLC	eP	21 26 23
	eS	26 53
	eL	27 08
Aug. 4		
BC	iP	21 46 28.9
BUT	eP	21 45 57
COL	iP	21 42 50
HH	iP	21 45 42
NEL	iP	21 46 29.8
SLC	e	21 48 05
	e	48 21
	ePP	49 56
	i	50 31
Aug. 5		
COL	iP	03 24 42
	epP	25 19
Aug. 5		
BOZ	eP	04 01 04
BUT	eP	04 01 06
COL	iP	04 00 11
COLU	e(P)	04 00 26
HH	iP	04 00 58.5
NEL	e(P)	04 01 51
Aug. 5		
COL	eP	04 24 38
HH	eP	04 25 31
NEL	e(P)	04 26 14
Aug. 5		
BUT	eP	04 50 02
COL	eP	04 49 18
HH	eP	04 50 09

Date and Station		Phase (GCT)
		h m s
Aug. 5		
BOZ	iP	05 05 39
	e(S)	07 14
	eL	07 33
BUT	eP	05 05 05
	e	05 08
	eS	06 54
	iL	07 09
HH	eP	05 05 24
	i	06 11
	eS	07 57
NEL	iP	05 04 17
	iS	04 40
SLC	eP	05 04 25
	i	04 40
	i	04 47
	eS	05 25
	iL	05 53
TUC	iP	05 06 01
	iL	08 03
Aug. 5		
MONT	eP	05 34 35
	eS	35 33
	eL	36 09
Aug. 5		
NEL	eP	07 22 07
Aug. 5		
BC	iP	08 58 47.7
	i	58 53.9
	ipP	59 09.4
BOZ	eP	08 58 43
BUT	eP	08 58 10
	epP	58 39
	eS	09 04 45
	iL	07 59
CHI	eS	09 08 31
	eScS	09 59
	eL	15 41
COL	iP	08 54 50
	eS	58 57
	iS	59 02
	eL	59 26
COLU	eP	09 01 08
	epP	01 23
	eS	10 18
	ePS	11 09
	e	12 13
	eL	22 08
HONO	e	08 57 13
	ePP	58 20
	eS	09 02 37
	eL	05 03

Date and Station		Phase	(GCT) h m s
HH		eP	08 57 52
		ipP	58 09
		ePP	59 14
		eScP	09 03 29
		e(S)	04 14
		eScS	07 48
NEL		iP	08 58 48.5
		ipP	59 08.7
		esP	59 21
		iScP	09 03 58.6
PHIL		eP	09 00 55
		e(S)	10 04
		eSS	14 08
		eL	18 03
SLC		eP	08 58 44
		eScS	09 08 28
		eL	12 17
SJ		iP	09 02 56
		ipP	03 21
TUC		eP	08 59 22
		iP	59 23
		eS	07 12
		eL	13 21
Aug. 5			
COL		eP	09 29 15
Aug. 5			
COL		eP	09 41 32
Aug. 5			
BOZ		eP	12 12 52
BUT		eP	12 12 47
COL		iP	12 10 05
HH		iP	12 12 34
NEL		iP	12 13 12
SLC		eP	12 13 06
Aug. 5			
COL		iP	15 15 00
HH		eP	15 18 00
NEL		eP	15 18 53
		iP	19 05.2
		i	19 34
Aug. 5			
BC		eP	15 53 45
NEL		eP	15 53 47
Aug. 5			
HH		eP	17 12 58
MONT		iP	17 42 05
		iL	42 16

Date and Station		Phase	(GCT) h m s
Aug. 5			
BC		eP	17 57 58
		e	58 03
BOZ		e(P)	17 57 30
		e	57 43
COL		eP	17 54 10
		i	56 46
HH		iP	17 57 05
		i	57 18
		e	59 18
NEL		eP	17 58 01
		iP	58 12.1
Aug. 5			
NEL		iP	18 58 37.4
Aug. 5			
NEL		iP	20 06 21.3
Aug. 5			
BOZ		eP	20 52 13
BUT		eP	20 52 15
COL		iP	20 51 16
HH		iP	20 52 07
Aug. 6			
BC		i(PP)	00 03 13.4
BOZ		eP	23 58 28
BUT		ePP	00 02 33
		eSKS	08 43
		e	11 51
		e	12 37
		eL	26 44
COL		iP	23 57 04
		i	57 06
COLU		eP'	00 03 39
		ePP	06 13
		e	12 46
		eL	46 12
HONO		eL	00 13 12
HH		eP	23 58 17
		e	58 34
		e(PP)	00 02 41
		iPKKP	14 59
		eP'P'	22 49
MONT		e	00 03 44
		ePP	03 48
		iSKS	06 24
NEL		eP	23 58 05
		e	58 53
		ePP	00 02 14
		e	03 58

Date and Station		Phase	(GCT) h m s
SJ		iP	00 04 08
		i	04 25
		i	04 43
TUC		ePP	00 02 44
		eL	32 15
Aug. 6			
BOZ		eP	00 22 47
Aug. 6			
SLC		eP	01 41 55
Aug. 6			
NEL		eP	01 54 39
Aug. 6			
COL		iP	03 05 39
		ipP	06 23
Aug. 6			
BOZ		eP	04 12 49
Aug. 6			
COL		eP	10 23 03
NEL		eP	10 22 28
Aug. 6			
COL		eP	10 57 07
Aug. 6			
NEL		eP	11 13 28
Aug. 6			
BOZ		iP	11 46 34
BUT		eP	11 46 36
COL		iP	11 45 44
HH		iP	11 46 29
		i	46 53
NEL		eP	11 47 21
Aug. 6			
BOZ		e	15 45 34
HH		e(P)	15 43 44
		i	46 19
Aug. 6			
HH		e(P)	16 13 59
Aug. 6			
BC		e(P)	16 32 54
		e	32 59
BUT		eP	16 32 53
		eSKS	43 20
		iSKS	43 22
		iS	43 47
		ePS	44 34
		eSS	49 43
		ePSPS	50 21
		eL	59 07

Date and Station		Phase	(GCT) h m s
COLU		eP	16 30 27
HH		iP	16 32 54
		ePPP	38 15
MONT		eP	16 28 35
		iP	28 40
NEL		iP	16 32 56.9
		ePP	36 55
PHIL		eP	16 30 10
		eS	38 38
		eScS	40 06
		eL	46 16
SLC		iP	16 32 48
		e	33 25
SJ		iP	16 28 16
TUC		eP	16 32 41
		iP	32 44
		ePP	37 15
		eL	17 05 11
WASH		iP	16 30 20
Aug. 6			
BC		i(P)	16 46 13.7
NEL		iP	16 46 09.2
		i	46 14.3
Aug. 6			
BOZ		eP	19 33 31
BUT		eP	19 33 36
HH		iP	19 33 27
NEL		iP	19 34 20.9
		i	34 26.6
		e	35 02
Aug. 6			
HH		e(P)	21 49 39
Aug. 6			
HH		e(P)	22 17 33
Aug. 6			
HH		e(P)	23 08 00
Aug. 7			
COL		iP	00 07 30
Aug. 7			
HH		e(P)	05 00 28
NEL		e(P)	05 00 45
Aug. 7			
BC		iP	09 48 30.3
		epP	49 07
		epPP	51 41

Date and Station		Phase (GCT)
		h m s
BOZ	eP	09 48 59
	epP	49 35
	esP	49 44
BUT	eP	09 49 05
	epP	49 41
COLU	eP	09 46 43
	epP	47 19
	ipP	47 23
	esS	55 11
	e(ScS)	56 16
	eSS	57 28
	eL	10 01 20
HH	iP	09 49 17
	ipP	49 55
MONT	iP	09 38 19
NEL	iP	09 48 29.1
	iPcP	48 38
	ipP	49 04.2
	isP	49 22.9
SLC	iP	09 48 41
	epP	49 15
	ipP	49 18
SJ	iP	09 44 28
	ePcP	46 34
	e	47 37
	eS	50 03
TUC	eP	09 47 58
	iP	47 59
	ipP	48 34
Aug. 7		
MONT	iP	12 56 09
	iL	57 10
Aug. 7		
BC	eP	12 59 52
NEL	eP	12 59 56
	iL	13 00 58.6
Aug. 7		
BC	eP	13 06 57
HH	e(P)	13 07 09
NEL	iP	13 06 10.8
	ipP	06 56.7
SJ	iP	13 02 20
Aug. 7		
COL	iP	15 25 03
	ePP	27 52
HH	eP	15 26 47
	ePP	30 19
	e	30 45
NEL	eP	15 27 48

Date and Station		Phase (GCT)
		h m s
Aug. 7		
NEL	iP'	15 31 13.3
	ePP	32 06
Aug. 7		
COL	iP	15 41 03
Aug. 7		
HH	e(P)	15 52 11
Aug. 7		
HH	eP	17 50 36
Aug. 7		
COL	eP	18 02 44
HH	e(P)	18 06 00
NEL	iP	18 07 04.4
SLC	eP	18 06 49
TUC	eP	18 07 36
Aug. 7		
HH	e(P)	18 17 55
Aug. 7		
NEL	e(P)	19 00 09.5
Aug. 7		
COLU	eP	20 16 21
NEL	eP	20 17 42
SJ	eP	20 22 34
TUC	e(P)	20 17 04
Aug. 8		
HH	e(P)	00 11 29
Aug. 8		
HH	iP	00 34 18
Aug. 8		
NEL	e(P)	00 58 21
Aug. 8		
BC	iP	05 56 19
COL	iP	05 55 42
	i	55 51
HH	e(P)	05 56 32
NEL	eP	05 56 18
	i	56 24.6
Aug. 8		
HH	e(P)	06 09 23
Aug. 8		
BH	eP	06 40 46
	eS	41 46
BC	ep	06 46 47

Date and Station		Phase (GCT)
		h m s
NEL	eP	06 46 44
SJ	eP	06 44 03
TUC	eP	06 46 00
Aug. 8		
COL	iP	06 58 09
HH	iP	07 01 03
NEL	eP	07 01 51
Aug. 8		
COL	eP	16 42 25
	e	44 21
HH	e(P)	16 44 27
NEL	iP	16 41 59.7
SLC	eP	16 42 22
TUC	iP	16 42 06
Aug. 8		
HH	e(P)	17 42 00
Aug. 8		
BC	e(P)	19 00 32
NEL	e(P)	19 00 39
Aug. 8		
NEL	i(P)	20 46 33.5
	i	47 00.8
Aug. 8		
BOZ	iP	22 28 47
	iS	29 05
HH	eP	22 29 31
	iL	30 14
Aug. 8		
HH	e(P)	23 51 51
MONT	eP	23 46 45
SJ	e(P)	23 47 26
	iP	47 30
Aug. 9		
BC	e(P)	00 34 00
COLU	eP	00 31 03
HH	eP	00 30 22
NEL	iP	00 34 00.2
	e	34 34
SLC	eP	00 33 52
Aug. 9		
BUT	eP	01 07 13
HH	e(P)	01 07 28

Date and Station		Phase (GCT)
		h m s
Aug. 9		
NEL	eP	04 31 36
Aug. 9		
BC	eP	05 52 10
NEL	eP	05 52 11
	ipP	52 48.7
	esP	52 57
Aug. 9		
BC	e(P)	11 22 01
NEL	iP	11 22 00.7
	ipP	22 32.3
Aug. 9		
BC	i(P)	11 25 12.6
NEL	i(P)	11 25 14.5
	e	26 08
Aug. 9		
COL	eP	15 00 46
	i	01 04
Aug. 9		
COL	iP	15 03 23
Aug. 9		
COL	iP	15 17 42
Aug. 9		
BC	eP	16 04 31
NEL	iP	16 04 28.7
Aug. 9		
BC	iP	16 45 38.7
NEL	iP	16 45 35.3
SLC	e(P)	16 45 22
TUC	e(P)	16 44 39
	eL	49 03
Aug. 9		
BC	iP	18 02 36.4
NEL	eP	18 02 31
Aug. 9		
HH	eP	18 25 03
Aug. 9		
BOZ	eP	19 26 12
	iP	26 15
	ipP	26 40
	i	26 45
	ePPP	29 17
	eS	33 50
	eSS	37 23
	eL	39 37
BUT	iP	19 26 07
	ipP	26 22
	iPcP	27 16

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Date and Station		Phase	(GCT)
			h m s
BUT	eS		19 33 33
	iScS		35 45
	iSS		36 56
	e		37 48
	eL		38 45
CHI	eP		19 27 50
	ePP		30 25
	eS		36 48
	eScS		37 47
	e		42 00
	eL		50 59
COL	iP		19 22 38
	ePP		23 40
	esPP		24 14
	e(PcP)		25 09
	ePcP		25 48
	iS		27 17
	e		27 31
	isS		28 04
	iL		30 29
COLU	iP		19 28 46
	i		28 58
	eS		38 33
	eSS		43 20
	eL		49 35
HONO	eP		19 25 03
	ipP		25 17
	ePP		27 04
	e(PPP)		28 06
	eS		31 44
	eL		35 03
HH	iP		19 25 49D
	i		26 19
	i		27 07
	iPP		27 18
	eS		33 11
	eScS		35 37
	eP'P'		55 30
NEL	iP		19 26 50.1
	iPcP		27 22.5
PHIL	eP		19 28 29
	ePP		31 21
	eS		38 01
	e		38 52
	eSS		43 01
	eL		46 59
SLC	eP		19 26 27
	iP		26 37
	ipP		26 50
	iPcP		27 24
	ePP		28 40
	eS		34 24
	e(ScS)		36 25
	eSS		38 24
	eL		41 02
SJ	iP		19 30 25
	ePP		34 05
TUC	iP		19 27 22
	i		27 43
TUC	ePP		19 29 23
	eS		35 56
	eSS		40 25
	eL		43 51
	eP'P'		56 17
WASH	iP		19 28 31
	i		29 00
	i		29 20
Aug. 9			
MONT	iP		19 36 02
	i		36 15
	e		38 18
NEL	iP		19 35 38.0
Aug. 9			
BC	e(P')		19 56 19
	i		56 30.4
HH	e(P')		19 55 30
NEL	iP'		19 55 31.9
	i		56 28.9
SLC	eP'		19 56 24
Aug. 9			
BC	iP		21 35 21.1
	ipP		35 57.7
BOZ	eP		21 34 54
	epP		35 32
	esS		35 45
BUT	eP		21 34 48
	epP		35 26
COL	iP		21 31 42
HH	iP		21 34 33
	i		35 11
NEL	iP		21 35 22.8
	ipP		35 59.0
SLC	eP		21 35 12
	epP		35 49
Aug. 9			
MONT	eP		21 43 29
Aug. 10			
HH	eP		00 22 02
Aug. 10			
BC	iP		01 06 11.0
HH	iP		01 07 34
NEL	iP		01 06 09.0
	i		06 17.6
TUC	iP		01 05 22
	i		05 31
	eL		11 22
Aug. 10			
BUT	eP		05 45 55
	e		47 29
COL	iP		05 43 24
HH	iP		05 45 42
	e		47 12
NEL	iP		05 46 15.3
	i		47 49.9
	i		47 58.1
SLC	eP		05 46 12
	e		46 47
Aug. 10			
HH	iP		06 13 52
NEL	iP		06 14 05.4
Aug. 10			
NEL	iP		06 17 25.0
Aug. 10			
SLC	eP		06 24 56
	e		26 02
Aug. 10			
SLC	eP		06 32 24
Aug. 10			
BC	e(P)		13 57 56
	e		58 10
COL	eP		13 58 40
MONT	eP		13 58 09
NEL	iP		13 57 56.4
	e		58 09
TUC	eP		13 57 58
	eL		14 27 50
Aug. 10			
COL	eP		15 42 01
Aug. 10			
BC	e(P)		17 56 57
MONT	eP		17 49 46
NEL	eP		17 57 08
Aug. 10			
HH	eP		23 05 51
	e		08 50
Aug. 10			
COL	iP		23 27 13
HH	eP		23 31 26
Aug. 11			
NEL	eP		02 57 04
Aug. 11			
HH	eP		03 53 37
SJ	iP		03 49 20
Aug. 11			
COL	iP		05 11 47
Aug. 11			
NEL	e(P)		06 00 58
Aug. 11			
HH	e(P)		06 41 59
Aug. 11			
COL	eP		07 12 22
Aug. 11			
BC	e(P)		07 38 49
BUT	e(P)		07 38 19
COL	iP		07 35 20
HH	iP		07 38 05
NEL	eP		07 38 50
TUC	eP		07 39 16
Aug. 11			
COL	iP		08 42 29
HH	eP		08 43 15
	i		43 26
SJ	e(P)		08 42 28
Aug. 11			
COL	iP		09 51 08
Aug. 11			
COL	iP		10 11 25
Aug. 11			
BC	iP		11 20 53.1
	ipP		20 58.5
BOZ	eP		11 20 31
	epP		20 55
	ePP		22 17
BUT	iP		11 20 43D
	ipP		21 08
	i		21 18
	eL		36 20
COL	iP		11 23 27
	ipP		23 56
	isP		24 06
	i		24 32
COLU	eP		11 16 46
	epP		17 07
	i(S)		20 06
HH	iP		11 20 56
	ipP		21 21

Date and Station		Phase (GCT) h m s
HH	isP	11 21 32
	ePcP	22 56
MONT	iP	11 20 10
	i	20 20
NEL	iP	11 20 32.9
	ipP	20 56.3
	isP	21 07.5
	iPP	22 18
	ePcP	22 30
	i	22 45
SLC	iP	11 20 04
	ipP	20 48
	isP	21 00
	i	21 04
	ePP	22 16
	epPP	22 43
SJ	iP	11 13 24
TUC	iP	11 20 00
WASH	eP	11 17 18
	i	21 11
Aug. 11		
COL	eP	13 11 17
Aug. 11		
MONT	e(P)	14 54 11
	iP	54 16
	e(S)	55 09
	iL	55 50
Aug. 11		
NEL	e(P)	15 04 14
Aug. 11		
HH	e(P)	16 37 33
Aug. 11		
HH	e(P)	18 03 34
Aug. 11		
HH	e(P)	18 21 04
Aug. 11		
COL	iP	20 08 30
NEL	eP	20 14 47
SJ	iP	20 16 10
Aug. 11		
HH	i(P)	20 36 15
Aug. 11		
HH	eP	22 18 14
COL	iP	22 15 09
Aug. 11		
COL	eP	22 48 38
HH	e(P)	22 48 51

Date and Station		Phase (GCT) h m s
NEL	eP	22 44 47
SLC	eP	22 44 27
	e	44 52
Aug. 12		
BC	e(P)	05 30 34
NEL	eP	05 30 33
Aug. 12		
MONT	eP	08 36 32
Aug. 12		
COL	eP	08 47 52
	iPcP	48 04
HH	iP	08 47 04
Aug. 12		
COL	eP	09 00 04
	e	00 56
	i	01 07
Aug. 12		
NEL	eP	09 39 41
Aug. 12		
COL	eP	10 17 43
Aug. 12		
HH	eP	10 32 18
NEL	iP	10 32 54.8
Aug. 12		
BC	iP	11 01 00.2
	e	02 07
COL	eP	11 00 54
	e	02 00
NEL	iP	11 00 59.9
	i	02 11.0
	e	04 30
Aug. 12		
BOZ	eP	11 46 04
BUT	eP	11 46 10
	e	46 16
COL	eP	11 48 33
HH	eP	11 46 25
	i	46 31
MONT	eP	11 38 35
	i	38 44
NEL	iP	11 45 29
	iPcP	45 34
	e	46 06
SLC	eP	11 45 41
SJ	iP	11 41 37
TUC	eP	11 44 54

Date and Station		Phase (GCT) h m s
Aug. 12		
BUT	eP	12 07 38
COL	iP	12 05 47
HH	eP	12 07 25
Aug. 12		
HH	e(P)	12 52 46
TUC	e(P)	12 52 25
	eL	55 29
Aug. 12		
COL	eP	14 01 45
Aug. 12		
BUT	eP	14 25 04
HH	eP	14 25 21
NEL	eP	14 24 24
	e	24 30
TUC	eP	14 23 56
Aug. 12		
COL	eP	14 42 18
Aug. 12		
COL	eP	18 05 41
Aug. 12		
HH	e(P)	22 34 18
	e	36 23
	e	37 58
Aug. 12		
BC	iP	23 28 25.5
	i	28 41.1
BOZ	iP	23 27 51
BUT	eP	23 27 45
	e	28 48
COL	iP	23 24 18
COLU	iP	23 30 20
HH	iP	23 27 28
	i	28 39
NEL	iP	23 28 26.9
	e	28 41
SLC	iP	23 28 15
	e	28 30
TUC	iP	23 28 58
Aug. 13		
BUT	e(P')	00 01 03
COL	eP	23 55 34
HH	e(P)	23 57 26
	e	00 01 13

Date and Station		Phase (GCT) h m s
HH	e	00 02 19
	e	12 07
NEL	eP	23 57 52
	i(P')	00 01 27
	i	01 44
Aug. 13		
BUT	eP	00 06 46
	e(PP)	11 48
	e(SKS)	18 14
	e	18 37
	e	23 54
	e	31 18
	e	35 40
	e	37 28
	eL	43 47
BC	iP	00 07 27.9
	e	08 24
NEL	iP	00 07 33.1
	e	11 51
TUC	eP	00 07 29
	e	11 10
	e(SKS)	18 36
	e	19 38
	eL	37 07
Aug. 13		
NEL	eP	00 50 21
Aug. 13		
BC	e(P)	01 30 03
NEL	eP	01 30 00
Aug. 13		
SJ	i(P)	03 44 25
Aug. 13		
MONT	iP	04 24 34
Aug. 13		
COL	e(P)	05 13 14
Aug. 13		
TUC	e(P)	06 14 33
	i(S)	14 47
	i	15 06
	iL	15 36
Aug. 13		
COL	iP	07 04 12
Aug. 13		
HH	e(P)	07 44 20
Aug. 13		
COL	e(P)	10 35 27
Aug. 13		
COL	eP	14 02 30
Aug. 13		
COL	iP	14 41 14
	e	41 19

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Date and Station		Phase	(GCT)
			h m s
COL	i		14 41 26
	i		41 37
HH	e(P)		14 44 13
Aug. 13			
NEL	eP		16 09 41
Aug. 13			
NEL	eP		16 25 28
Aug. 13			
TUC	e(P)		17 54 32
Aug. 13			
SJ	iP		19 12 42
Aug. 13			
COL	iP		21 12 33
HH	e(P)		21 17 07
Aug. 14			
HH	iP		00 27 38
	i		28 10
Aug. 14			
BC	iP		01 46 52.8
	i		47 00.2
	i		47 23.7
BOZ	e(P)		01 46 21
BUT	eP		01 46 14
COL	iP		01 42 50
HH	iP		01 45 57
	i		47 12
	i		02 09 39
NEL	iP		01 46 53.5
	i		47 11.4
	i		47 22.8
SLC	iP		01 46 42
TUC	iP		01 47 26
Aug. 14			
HH	e(P)		03 45 03
Aug. 14			
MONT	eP		04 24 35
	eL		26 25
	iL		27 04
HH	e(P)		04 35 11
Aug. 14			
BC	eP		07 41 42
COL	eP		07 41 27
	i		42 09
HH	e(P)		07 43 51
NEL	iP		07 41 41.0
TUC	iP		07 41 46
Aug. 14			
BC	eP		07 44 22
	e		44 33
NEL	iP		07 44 21.0
	i		44 31.9
Aug. 14			
COL	iP		08 45 53
	iS		46 15
	iL		46 26
Aug. 14			
HH	e(P)		09 39 13
Aug. 14			
COL	eP		10 00 24
HH	eP		10 03 14
Aug. 14			
TUC	eP		10 53 49
Aug. 14			
COL	iP		11 18 52
Aug. 14			
COL	iP		13 42 40
Aug. 14			
BC	iP		14 12 23.6
	epP		14 27
COL	iP		14 12 46
	ipP		14 49
HH	iP		14 12 55
	epP		14 59
NEL	eP		14 12 23
	epP		14 25
SLC	eP		14 12 16
	e		15 11
TUC	eP		14 12 29
	epP		14 32
Aug. 14			
COL	eP		15 13 12
Aug. 14			
COL	iP		17 03 06
NEL	eP		17 03 53
SLC	eP		17 03 36
Aug. 14			
HH	i(P)		17 56 30
Aug. 14			
NEL	e(P)		19 43 04
Aug. 14			
BC	eP		20 34 14
HH	e(P)		20 33 24
NEL	eP		20 34 14
	e		34 24
TUC	eP		20 34 10
	eL		21 07 32
Aug. 14			
BUT	e(P)		21 10 31
	e		16 04
	e		20 09
	eL		22 26
Aug. 14			
COL	iP		21 56 28
	iS		56 34
Aug. 14			
BUT	eL		22 10 31
HH	iP		22 01 30
	eL		08 46
NEL	iP		22 03 07.5
Aug. 14			
BUT	e(P)		23 05 50
	iP		05 51
	eL		24 48
Aug. 14			
COL	e(P)		23 09 23
	eS		19 37
	eL		28 30
HH	eP'		23 14 50
	e		25 53
MONT	iP'		23 15 58
	i		16 07
SJ	eP'		23 16 18
TUC	e(P')		23 15 09
	e		25 51
	eL		51 22
Aug. 14			
NEL	eP		23 44 05
Aug. 14			
HH	i(P)		23 53 24
Aug. 15			
HH	i(P)		00 39 24
Aug. 15			
HH	i(P)		01 37 42
Aug. 15			
BC	iP		05 50 30.9
BOZ	iP		05 51 02
BUT	iP		05 51 07
COLU	eP		05 48 53
	eS		56 45
HH	i(P)		05 51 27
MONT	iP		05 39 54
	iL		41 30
NEL	iP		05 50 32.3
	i		50 40.9
	i		50 54.2
	i		51 02.7
SLC	iP		05 50 43
SJ	iP		05 46 43
TUC	iP		05 50 03
	i		50 23
Aug. 15			
BC	iP		05 50 19.9
BOZ	e(P)		05 49 45
HH	iP		05 49 21
	iPcP		50 34
	i		50 48
NEL	iP		05 50 21.0
SLC	eP		05 50 07
	e		50 19
	e(pP)		50 29
Aug. 15			
HH	iP		16 02 51
	i(S)		03 18
Aug. 15			
MONT	eP		17 21 10
	e		21 29
	eL		22 52
NEL	eP		17 26 17
SJ	e(P)		17 22 06
Aug. 15			
BC	e(P)		20 21 51
Aug. 16			
BC	eP		00 10 43
BOZ	eP		00 10 23
BUT	iP		00 10 19
COL	iP		00 07 59
HH	iP		00 10 09
MONT	eP'		00 17 10
	e		17 31
	ePP		22 12
NEL	iP		00 10 44.4
Aug. 16			
BC	eP		00 51 27

Date and Station		Phase (GCT)
		h m s
NEL	eP	00 51 55
Aug. 16		
BC	e(P)	05 00 48
NEL	e(P)	05 00 56
Aug. 16		
BC	eP	05 13 01
BOZ	eP	05 14 01
BUT	e(P)	05 14 04
	eL	28 52
HH	iP	05 14 26
NEL	iP	05 12 59.5
SLC	eP	05 13 27
TUC	eP	05 14 18
Aug. 16		
HH	e(P)	06 25 05
Aug. 16		
HH	e(P)	06 34 37
Aug. 16		
HH	i(P)	08 24 51
Aug. 16		
COL	iP	09 13 10
	i	13 27
HH	eP	09 15 20
Aug. 16		
BC	eP	11 02 24
NEL	iP	11 02 23.9
	i	02 38.6
TUC	eP	11 02 27
	e	02 41
Aug. 16		
NEL	eP	11 19 18
Aug. 16		
COL	eP	13 15 23
Aug. 16		
COL	iP	14 02 37
Aug. 16		
COL	iP	14 33 57
Aug. 16		
BC	iP	14 38 17.3
BOZ	eP	14 38 52
	epP	40 51
COL	iP	14 38 41
	i	38 43
	i	39 56
COL	ipP	14 40 42
	i	40 49
HH	eP	14 38 50
	epP	40 46
	ePP	42 29
NEL	iP	14 38 16
	ipP	40 13.5
TUC	eP	14 38 22
Aug. 16		
COL	iP	15 10 45
HH	eP	15 12 07
Aug. 16		
COL	iP	15 58 19
Aug. 16		
NEL	e(P)	19 43 31
Aug. 16		
COL	eP	21 20 16
	i	20 25
Aug. 16		
NEL	eP	21 34 19
	i	34 33.8
Aug. 16		
HH	eP	22 02 27
	i	02 37
Aug. 16		
HH	e(P)	22 27 46
	eL	30 56
Aug. 16		
COL	iP	23 47 58
NEL	iP	23 47 15.9
TUC	eP	23 47 21
Aug. 17		
HH	e(P)	00 00 15
Aug. 17		
BC	iP	05 02 39.2
HH	e(P)	05 03 52
NEL	iP	05 02 37.7
	i	02 45.0
TUC	eP	05 01 55
Aug. 17		
HH	iP	05 05 58
NEL	iP	05 07 37.7
Aug. 17		
BC	eP	05 48 30
BOZ	eP	05 49 11
BUT	eS	05 59 18
	eL	06 11 53
COL	iP	05 49 07
	i	49 15
	i	49 26
	i	49 32
HONO	e(S)	05 50 36
	eL	53 25
HH	eP	05 49 09
NEL	iP	05 48 28.7
	i	49 00.6
SLC	eP	05 48 56
TUC	eP	05 48 35
	eL	06 12 34
Aug. 17		
BC	eP	08 46 11
COL	iP	08 46 40
HH	eP	08 46 41
NEL	eP	08 46 10
	e	46 31
Aug. 17		
COL	iP	14 03 22
Aug. 17		
COL	iP	16 01 01
Aug. 17		
COL	iP	16 12 35
	ipP	12 47
Aug. 17		
HH	i(P)	16 17 57
SJ	iP	16 08 16
Aug. 17		
COL	iP	16 56 42
HH	eP	16 54 25
NEL	iP	16 54 08.7
SJ	eP	16 46 24
	iP	46 25
	i(S)	47 02
TUC	eP	16 53 39
Aug. 17		
COL	iP	17 28 51
HH	e(P)	17 33 16
Aug. 17		
NEL	iP	19 02 34.1
Aug. 17		
BH	eP	23 03 45
	eS	04 31
MONT	eP	23 07 38
	e	10 55
Aug. 17		
BH	eP	23 08 11
	eS	08 55
Aug. 18		
NEL	i(P)	00 03 15.3
Aug. 18		
COL	eP	01 29 21
MONT	e(P)	01 23 44
Aug. 18		
COL	eP	02 54 12
HH	eP	02 58 44
NEL	e(P)	02 58 27
Aug. 18		
COL	iP	03 01 59
	i	02 16
HH	eP	03 03 22
	ePP	07 34
NEL	eP'	03 07 43
SJ	iP'	03 09 12
Aug. 18		
BH	e(P')	04 59 00
	eSKS	05 06 29
BC	iP	04 54 25.40
	ipP	55 03.9
	iS	05 04 25.3
BOZ	iP	04 55 03D
	epP	55 41
	esP	56 07
	ePP	58 30
	ipPP	59 07
	eSKS	05 05 16
	iS	05 38
	esS	06 29
	esPS	07 26
	eSS	11 27
	e(SSS)	14 38
	eL	18 10
BUT	iP	04 54 59D
	ipP	55 38
	iPP	58 24
	ipPP	59 00
	iSKS	05 05 14
	iS	05 29
	isS	06 32
	iSS	11 18
	eSSS	15 19
	eL	18 18

Date and Station	Phase	Phase (GCT) h m s
COL	iP	04 55 00D
	ipP	55 36
	i	56 29
	ipPP	59 03
	iSKS	05 05 13
	iS	05 29
	i	05 50
	ipS	06 05
	isS	06 22
	i	09 37
	iPKKP	12 50
	i(SSS)	14 12
	eL	18 06
	eP'P'	20 49
COLU	iP'	05 00 33C
	ipP	00 41C
	i	00 47
	ipPP	01 15
	eSKS	06 41
	iSKKS	07 29
	iS	07 55
	iPS	09 47
	e	10 18
	eSS	15 41
	eSSS	19 28
	eL	26 17
HONO	iP	04 50 31C
	i	50 40
	epP	51 11
	ePP	52 33
	e(pPP)	53 13
	iS	57 02
	isS	57 40
	iSeS	05 00 20
	iL	01 10
T_L = 18 sec. A_{max} = 12mm		
HH	iP	04 55 01C
	ipP	55 42
	i	56 07
	i	57 35
	iPP	58 30
	i	58 43
	iSKS	05 05 15
	iS	05 34
	esS	06 38
	iPS	06 54
	e	07 36
	iPKKP	12 46
	eP'P'	20 48
	eSKPP'	24 11
	eP'P'P'	42 10
MONT	iP	04 55 43C
	i	55 59
	ipP	56 22
	isP	56 42
	ePP	59 33
	ipPP	05 00 10
	ePS	08 11
	iPKKP	12 24
	eL	20 18
NEL	iP	04 54 24.3C
	ipP	54 58
NEL	isP	04 55 07
	i	56 35.8
	i	56 46.2
	iPP	57 24
	ipPP	57 59
	iPPP	59 15
	i	05 00 32
	iS	04 21.6
	ePS	05 42
	ePKKP	12 53
	iPKKP	13 03
	eP'P'	20 40
	iP'P'	21 11.4
	iSKPP'	24 24.0
PHIL	e(P)	04 57 18
	ePP	05 01 21
	ipPP	01 56
	e(PPP)	03 43
	epPPP	04 18
	iSKS	07 06
	eSKKS	08 01
	eS	08 53
	esS	09 50
	esP	10 43
	eSS	16 46
	esSS	17 55
	eSSS	22 16
	eL	31 03
RC	iP	04 55 22
	ipP	56 01
	iPP	59 05
	epPP	59 40
	iSKS	05 05 43
	iS	06 18
	epS	06 54
	ePPS	08 34
SLC	iP	04 54 48D
	i	55 04
	ipP	55 26
	esP	55 46
	i	56 12
	ePP	58 01
	i(pPP)	58 34
	eSKS	05 04 59
	iS	05 02
	isS	05 41
	iSP	05 58
	esPS	06 42
	eSS	10 53
	iPKKP	12 53
	eL	17 19
	eP'P'	20 44
	eSKPP'	24 05
SJ	eP'	05 00 51
	ipP'	01 20
	ePP	01 41
	ePPP	04 30
	iSKS	07 22
	e	07 56
	eSKKS	08 20
	iPS	11 17
	iPKKP	11 30
	iPPS	12 09
	eSS	17 37
	e(SSS)	21 16
	eL	30 15
SIT	eP	04 54 45N,W
	ipP	55 20
	esP	55 41
	e	57 30
	ePP	58 22
	e(pPP)	58 40
	ePPP	05 00 30
	iS	04 54
	esS	05 34
	e	05 48
	iPS	06 16
	eL	17 02
TUC	iP	04 54 30C
	ipP	55 08
	isP	55 20
	iPP	57 30
	ipPP	58 07
	ePPP	59 31
	iS	05 04 33
	iPS	04 55
	isS	05 18
	i(PS)	05 41
	eSS	09 58
	ePKKP	13 02
	eL	15 56
	eP'P'	21 05
	eSKPP'	24 20
UK	eP	04 54 15
	eS	05 03 56
	esS	04 25
	ePS	05 06
	eL	12 49
WASH	eP	04 56 40
	eP'	05 00 08
	ePP	01 05
	iPP	01 10
	i	02 25
	eSKS	07 10
	ePS	10 52
	eSS	15 53
	eL	29 10
HH	e(P)	06 02 31
Aug. 18		
COL	eP	09 12 07
HH	iP	09 09 37
MONT	iP	08 57 43
	iL	58 40
Aug. 18		
HH	e(P)	10 01 05
Aug. 18		
NEL	iP	11 41 44.3
Aug. 18		
BH	eP	13 01 04
	eS	01 53
Aug. 18		
BH	eP	15 08 54
BC	iP	15 11 58.6
BOZ	eP	15 12 58
	e(S)	19 40
	eL	30 36
BUT	e(S)	15 19 28
	e	21 10
	eL	28 08
HH	iP	15 13 23
NEL	iP	15 11 57.2
	e	12 20
SLC	iP	15 12 24
TUC	eP	15 11 16
Aug. 18		
HH	e(P)	15 44 33
Aug. 18		
COL	eP	15 58 33
	e	59 22
Aug. 18		
COL	eP	16 46 38
	i	47 03
Aug. 18		
BC	iP	18 08 17.4
BOZ	e(P)	18 07 50
COL	eP	18 04 15
HH	eP	18 07 22
NEL	iP	18 08 18.8
SLC	eP	18 08 10
	i	08 22
TUC	e(P)	18 08 58
Aug. 18		
HH	e(P)	21 25 21
Aug. 18		
HH	e(P)	22 40 15
Aug. 18		
BC	iP	22 59 33.2
BOZ	eP	23 00 24
BUT	e(P)	23 00 27
COLU	eP	22 58 29
	e	23 02 38
	eL	05 28
HH	iP	23 00 50
NEL	iP	22 59 31.2
SLC	eP	22 59 50

Date and Station		Phase (GCT)
		h m s
TUC	iP	22 58 49
	eL	23 00 47
Aug. 18		
HH	iP	23 31 32
Aug. 18		
COL	iP	23 43 36
	i	43 42
	i	44 01
HH	eP	23 45 25
Aug. 19		
HH	iP	02 41 37
MONT	eP	02 42 30
	e	42 59
SLC	eP	02 43 50
Aug. 19		
COL	e(P)	04 14 17
Aug. 19		
HH	e(P)	06 42 21
Aug. 19		
NEL	e(P)	06 59 48
Aug. 19		
COL	e(P)	14 06 59
Aug. 19		
COL	iP	14 19 30
Aug. 19		
COL	eP	15 19 03
HH	iP	15 16 42
	e	17 09
	e	17 21
MONT	iP	15 11 05
	ipP	11 39
SJ	iP	15 12 11
	i	12 50
Aug. 19		
BC	eP	20 16 29
NEL	eP	20 16 18
	e	16 40
Aug. 19		
COL	eP	21 15 01
HH	eP	21 16 14
Aug. 19		
HH	e(P)	21 39 31
Aug. 19		
HH	eP	23 14 57
NEL	eP	23 15 23
	i	15 47.2

Date and Station		Phase (GCT)
		h m s
Aug. 20		
NEL	eP	00 25 14
Aug. 20		
BOZ	e(P)	08 03 17
BUT	e(P)	08 03 10
	i	05 57
	i	06 24
HH	eP	08 03 31
	e	06 42
SLC	eP	08 02 44
	eS	04 03
	iS	04 05
	eL	04 11
TUC	e(P)	08 02 46
	e(S)	04 19
	iL	05 05
Aug. 20		
COL	eP	15 42 57
Aug. 20		
HH	e(P)	17 38 21
NEL	eP	17 39 49
Aug. 20		
BOZ	e(P)	19 30 27
COL	iP	19 29 19
HH	eP	19 30 15
NEL	eP	19 31 40
TUC	eP	19 31 56
	eL	56 14
Aug. 20		
BOZ	e(P)	20 33 07
COL	iP	20 31 59
HH	e(P)	20 32 52
	e	36 16
NEL	iP	20 34 25.6
	e	37 40
TUC	e(P)	20 34 39
Aug. 20		
BC	eP	20 52 29
BOZ	e(P)	20 51 15
COL	iP	20 50 07
HH	eP	20 51 04
NEL	iP	20 52 30.4
Aug. 20		
HH	e(P)	21 13 04

Date and Station		Phase (GCT)
		h m s
Aug. 20		
HH	e(P)	21 27 54
Aug. 20		
HH	e(P)	21 32 13
Aug. 20		
HH	e(P)	21 56 06
Aug. 20		
HH	e(P)	22 17 56
Aug. 20		
COL	eP	22 47 40
HH	eP	22 48 37
NEL	iP	22 50 04.3
Aug. 20		
BC	eP	23 09 26
COL	eP	23 07 01
HH	eP	23 07 44
	e	07 59
	e(PcP)	09 27
NEL	eP	23 09 24
	e	09 34
SLC	eP	23 08 47
TUC	eP	23 09 39
	eL	31 18
Aug. 20		
HH	eP	23 47 13
Aug. 21		
BOZ	e(P)	00 34 30
	e	34 59
BUT	e(P)	00 35 02
	e	36 38
	e	39 07
	e(S)	41 35
	eL	45 43
COL	iP	00 33 21
	i	33 50
HH	eP	00 34 18
	e	34 47
	ePP	36 16
SLC	eP	00 35 08
	i	35 35
TUC	eP	00 35 58
	i	36 27
	eL	57 34
Aug. 21		
NEL	iP	02 52 29.9
Aug. 21		
BOZ	eP	02 53 11
	e	53 26

Date and Station		Phase (GCT)
		h m s
HH	iP	02 53 39
	i	53 53
	i	55 34
NEL	iP	02 55 10.1
Aug. 21		
BC	e(P)	04 23 16
COL	eP	04 20 58
HH	eP	04 21 57
	ePcP	23 21
NEL	eP	04 23 23
Aug. 21		
COL	iP	06 22 09
Aug. 21		
COL	eP	06 50 55
COLU	eP'	06 58 07
HH	eP	06 52 39
	eP'	56 21
MONT	eP'	06 58 (57)
	e(P)	07 00 (52)
	e(S)	02 (55)
NEL	eP'	06 56 57
SJ	eP'	06 58 33
	iP'	58 42
TUC	eP'	06 57 33
Aug. 21		
BC	iP	07 10 43.4
BOZ	e(P)	07 11 14
HH	iP	07 11 30
	ipP	12 00
NEL	iP	07 10 41.7
	ipP	11 10.9
	esP	11 21
SJ	iP	07 07 26
	ipP	07 54
TUC	iP	07 10 15
Aug. 21		
BC	eP	07 29 57
	i	30 31.4
BOZ	e(P)	07 28 41
COL	eP	07 27 32
	e	31 45
COLU	eP	07 28 48
	eS	35 08
	eL	40 06

Date and Station		Phase	(GCT)
			h m s
HH		eP	07 28 29
		e(PP)	30 44
NEL		iP	07 29 56.7
		e	32 10
PHIL		eP	07 27 57
		eS	34 23
		eL	38 48
SLC		eP	07 29 18
TUC		eP	07 30 10
		i	30 18
		ePPP	34 00
		eL	49 18
Aug. 21			
TUC		e(P)	08 39 33
		eL	09 22 44
Aug. 21			
COL		e(P)	12 59 17
Aug. 21			
BC		iP	13 15 14.3
BOZ		eP	13 13 59
COL		eP	13 12 50
HH		eP	13 13 48
		e	14 12
NEL		iP	13 15 16.0
SLC		eP	13 14 35
TUC		eP	13 15 27
		eL	40 20
Aug. 21			
COL		eP	13 21 54
Aug. 21			
COL		eP	14 08 07
		iP	08 09
HH		eP	14 09 07
NEL		eP	14 10 33
SLC		eP	14 09 55
Aug. 21			
COL		iP	14 48 44
Aug. 21			
BOZ		eP	17 48 59
COL		iP	17 47 50
HH		eP	17 48 47
SLC		eP	17 49 39
TUC		eP	17 50 26
		eL	18 14 14

Date and Station		Phase	(GCT)
			h m s
Aug. 21			
BOZ		eP	22 59 57
BUT		e(P)	23 03 21
		e	11 16
		eL	12 42
COL		eP	22 58 39
		iPcP	23 00 31
		eS	05 02
		eL	08 11
COLU		eS	23 07 27
		eL	13 30
HH		eP	22 59 41
		ePP	23 01 45
PHIL		eP	22 59 04
		e(PP)	23 01 05
		eS	05 41
		eL	10 13
SLC		eP	23 00 33
		e	00 54
		e	01 07
TUC		eP	23 01 24
		iP	01 28
		e(PP)	04 15
		ePPP	05 07
		eS	09 36
		eL	21 05
Aug. 22			
HH		eP	01 15 33
Aug. 22			
BC		eP	01 46 40
COL		iP	01 45 28
HH		e(P)	01 46 44
Aug. 22			
BC		e(P)	03 01 49
BOZ		eP	03 00 36
COL		iP	02 59 26
HH		eP	03 00 23
		e	02 17
TUC		eP	03 02 03
		eL	27 16
Aug. 22			
HH		e(P)	05 23 32
Aug. 22			
MONT		iP	05 41 00
		i(S)	42 28
Aug. 22			
BUT		e(S)	09 11 15
		eL	13 34

Date and Station		Phase	(GCT)
			h m s
COL		eP	09 09 34
Aug. 22			
BC		eP	10 18 09
BOZ		eP	10 16 56
COL		iP	10 15 46
COLU		eP	10 17 01
		e(S)	24 23
		eL	28 10
HH		eP	10 16 44
TUC		eP	10 18 23
		eL	41 45
Aug. 22			
COL		eP	10 50 01
Aug. 22			
BC		eP	12 49 47
BOZ		eP	12 48 34
COL		eP	12 47 24
COLU		eP	12 48 38
		eL	13 04 12
HH		eP	12 48 22
		ePP	50 13
SLC		eP	12 49 09
TUC		eP	12 50 01
		eL	13 15 07
Aug. 22			
BC		eP	14 20 45
COL		iP	14 21 26
		i	21 30
HH		eP	14 21 26
Aug. 22			
MONT		eP	15 42 36
		eS	44 05
Aug. 22			
MONT		eP	16 53 (17)
Aug. 22			
MONT		eP	17 59 13
		iS	18 00 48
COL		iP	18 10 52
Aug. 22			
BC		iP	18 26 24.4
		i	26 41.7
BOZ		e(P)	18 26 17
BUT		e(P)	18 26 16
		eS	36 08
		eL	48 00

Date and Station		Phase	(GCT)
			h m s
COL		eP	18 24 04
HH		eP	18 26 04
NEL		iP	18 26 24.0
		i	26 29.2
		i	26 36.3
SLC		eP	18 26 44
TUC		ePP	18 30 29
		eL	56 20
Aug. 22			
COL		eP	18 29 00
HH		eP	18 29 58
NEL		eP	18 31 24
Aug. 22			
MONT		iP	21 40 34
NEL		eP	21 49 57
		e	50 09
Aug. 22			
HH		e(P)	23 22 51
Aug. 23			
BC		eP	00 02 19
HH		eP	00 00 52
NEL		eP	00 02 19
		e	04 31
TUC		e(P)	00 02 29
		eL	28 20
Aug. 23			
COL		eP	00 29 48
Aug. 23			
MONT		eP	01 19 (12)
Aug. 23			
BC		e(P)	03 06 44
NEL		iP	03 07 53.0
Aug. 23			
NEL		eP	03 23 15
Aug. 23			
NEL		eP	06 35 02
Aug. 23			
MONT		eP	08 41 (20)
		iS	43 02
Aug. 23			
BC		eP	08 42 08
HH		eP	08 41 54
NEL		eP	08 42 02
		i	42 13

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Date and Station		Phase (GCT)
		h m s
Aug. 23		
BC	e(P)	09 39 03
COL	iP	09 39 39
	i	40 05
NEL	eP	09 39 02
Aug. 23		
BC	e(P)	09 43 44
BUT	eL	09 53 16
BOZ	e(P)	09 41 35
COL	iP	09 40 25
	i	40 40
HH	eP	09 41 13
NEL	iP	09 42 48.2
TUC	eP	09 43 02
	eL	10 09 25
Aug. 23		
COL	eP	10 07 49
Aug. 23		
COL	iP	10 48 13
Aug. 23		
COL	eP	11 16 32
HH	eP	11 18 35
Aug. 23		
BH	iP	11 24 53
	iS	25 37
Felt: Puerto Armuelles, R. P.		
BC	e(P)	11 31 38
HH	iP	11 32 36
NEL	iP	11 31 35.1
Aug. 23		
COL	eP	11 47 03
HH	e(P)	11 48 01
NEL	eP	11 49 29
TUC	e(P)	11 49 39
	ePcP	50 08
	eL	12 15 37
Aug. 23		
BH	iP	12 05 25
	iS	06 09
BC	iP	12 12 10.9
BOZ	eP	12 12 42
COL	iP	12 15 56
COL	e	12 18 29
COLU	eP	12 10 03
	eS	14 41
	eL	16 37
HH	iP	12 13 10
	ePcP	14 40
MONT	eP	12 11 18
NEL	iP	12 12 09.0
	i	12 14.0
SLC	eP	12 12 20
SJ	iP	12 09 00
TUC	eP	12 11 28
	eL	25 27
Aug. 23		
HH	e(P)	14 15 25
	e	19 54
Aug. 23		
BH	eP	14 36 26
	iS	37 11
HH	iP	14 44 11
	ePP	45 41
NEL	iP	14 43 09.5
SLC	iP	14 43 20
SJ	eP	14 40 02
Aug. 23		
BUT	eP	15 03 05
	e	04 47
	eL	07 50
COL	iP	14 58 39
HH	iP	15 02 42
	i	02 53
NEL	iP	15 04 09.8
	e	04 37
	ePcP	07 10
SLC	eP	15 03 53
Aug. 23		
HH	e(P)	19 12 38
Aug. 23		
HH	e(P)	20 11 07
Aug. 23		
BC	iP	20 48 59
NEL	iP	20 48 58.0
	i	49 40.1
Aug. 23		
HH	e(P)	21 49 30
	e	49 56
Aug. 23		
BC	eP	23 08 37
NEL	i(P)	23 08 41.6
Aug. 24		
BC	eP	00 07 05
NEL	eP	00 07 14
Aug. 24		
COL	eP	03 15 06
Aug. 24		
COL	eP	03 49 47
	iP	49 57
Aug. 24		
COL	iP	04 53 57
Aug. 24		
BH	eP	06 00 00
BC	iP	05 52 40.5
BOZ	eP	05 53 35
	iP	53 36
	iL	55 27
BUT	eP	05 53 26
	iP	53 28
	eL	55 12
CHI	iP	05 56 41
	i	57 20
	iS	06 00 56
	iL	02 36
COL	iP	05 57 47
	iPP	58 32
	iPPP	59 00
	ePcP	06 00 00
	iPcP	00 45
	eS	02 36
	iS	02 42
	iL	04 04
COLU	iP	05 57 42W,N
	i	57 49
	ePP	58 43
	iPP	58 53
	iPPP	59 24
	iS	06 02 42
	iL	04 41
HONO	eP	05 58 58
	eS	06 05 03
	eL	07 06
HH	iP	05 53 50
	e	06 26 53
MONT	iP	06 03 27
	i	03 39
NEL	iP	05 52 43.2
PHIL	eP	05 58 04
	e	59 23
PHIL	eS	06 03 22
	iL	04 52
RC	iP	05 54 26
	iS	56 32
	iL	57 04
SLC	iP	05 52 51
	i	52 54
SJ	eP	06 00 23
	e	02 33
	e	04 06
	eS	07 37
	e	10 27
	e	12 23
	eL	13 13
SIT	iP	05 56 15
	iS	06 00 14
	iL	01 00
TUC	eP	05 53 50
	iP	53 53
	i	54 32
	i	54 44
	i(S)	56 08
	iL	56 20
UK	eP	05 52 35
	i	52 47
	iS	53 37
	iL	54 10
WASH	eP	05 57 57
	i	58 28
	i	59 20
	e	06 00 05
	eS	02 40
	e	03 27
	eL	04 19
Aug. 24		
COL	iP	06 25 54
Aug. 24		
HH	e(P)	06 37 37
	e	40 07
Aug. 24		
HH	e(P)	06 56 35
	eL	59 05
SLC	eP	06 55 36
	e	55 51
	eS	56 33
	eL	56 51
Aug. 24		
HH	e(P)	08 31 29
Aug. 24		
HH	e(P)	08 43 13
	eL	45 01
Aug. 24		
BUT	eP	09 19 22

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Date and Station		Phase	(GCT)
			h m s
HH		e(P)	09 20 09
Aug. 24			
BUT		e(P)	11 01 18
HH		e(P)	11 01 18
		eL	03 42
Aug. 24			
BC		iP	12 57 51.4
NEL		iP	12 57 50.7
Aug. 24			
HH		e(P)	16 11 16
Aug. 24			
MONT		iP	17 22 27
Aug. 24			
HH		e(P)	18 11 33
Aug. 24			
COL		iP	21 08 58
		i	09 56
Aug. 24			
BOZ		eP	21 23 23
		eS	25 08
		eL	25 23
BUT		eP	21 23 16
		eS	24 47
		iL	24 58
HH		eP	21 22 59
		eL	25 28
SLC		eP	21 22 15
		e	22 29
		eS	23 13
		eL	23 24
Aug. 24			
HH		e(P)	23 28 50
		eL	31 12
Aug. 25			
HH		e(P)	00 09 10
Aug. 25			
BH		eP	01 31 14
		eS	31 57
Aug. 25			
BOZ		eP	02 19 16
		eL	21 22
BUT		eP	02 19 15
		iS	20 56
		iL	21 11
COL		eP	02 23 19
COLU		eL	02 29 20
HH		iP	02 19 29
		iL	21 47
NEL		iP	02 18 25.2
		i	18 42.7
RC		eP	02 20 08
		eL	24 15
SLC		eP	02 18 34
		iP	18 39
		i	18 58
		iS	19 17
		iL	19 55
TUC		eP	02 19 33
		i	20 11
		iS	21 13
		eL	21 35
		e	21 42
		iL	21 49
Aug. 25			
BOZ		e(P)	02 52 25
HH		e(P)	02 52 21
		eL	54 38
Aug. 25			
HH		e(P)	03 31 18
Aug. 25			
COL		iP	06 42 51
Aug. 25			
HH		e(P)	08 46 13
		eL	48 43
Aug. 25			
COL		iP	09 14 56
Aug. 25			
HH		e(P)	09 28 10
Aug. 25			
HH		e(P)	09 33 33
		eL	35 42
Aug. 25			
NEL		eP	09 46 11
		e	46 50
Aug. 25			
BOZ		e(P)	12 15 27
BUT		eP	12 15 17
		e(S)	16 49
HH		e(P)	12 15 58
		eL	17 46
Aug. 25			
HH		e(P)	16 08 28
Aug. 25			
BOZ		eP	18 56 55
BUT		eP	18 55 24
HH		eP	18 53 58
		e	56 04
		e	59 11
Aug. 25			
HH		eP	19 59 51
Aug. 25			
BC		iP	20 00 47.6
COL		iP	20 12 00
HH		iP	20 02 19
		e	08 28
NEL		iP	20 00 48.2
		e	00 56
Aug. 25			
HH		e(P)	20 52 42
Aug. 25			
HH		eP	21 30 12
Aug. 25			
HH		e(P)	21 59 44
		eL	22 03 22
Aug. 25			
BUT		eP	22 23 33
		eS	25 20
		eL	25 48
HH		iP	22 23 33
		iL	26 13
Aug. 26			
HH		e(P)	01 50 53
Aug. 26			
NEL		i(P)	03 01 07.9
Aug. 26			
BC		e(P)	03 11 05
NEL		eP	03 11 04
Aug. 26			
SLC		eP	03 29 33
Aug. 26			
HH		e(P)	04 23 20
		eL	25 48
Aug. 26			
HH		e(P)	08 33 18
		eL	35 50
Aug. 26			
COL		eP	11 48 23
Aug. 26			
HH		e(P)	12 06 25
Aug. 26			
COL		iP	12 46 33
HH		eP	12 46 33
		e	48 34
		eL	49 19
Aug. 26			
BOZ		eP	12 58 15
		eS	13 00 32
		eL	00 47
BUT		eP	12 58 32
		iS	13 00 10
		iL	00 23
HH		iP	12 58 30
		iL	13 01 11
NEL		iP	12 57 25.6
		i	57 42.4
		i(S)	58 38.6
SLC		eP	12 57 40
		i	57 53
		i	58 27
		iL	58 57
Aug. 26			
COL		iP	13 14 39
		epP	14 58
Aug. 26			
BUT		eL	13 54 50
HH		e(P)	13 49 13
		e	51 10
		eL	51 42
NEL		eP	13 48 57.3
		i	49 07.2
SLC		eL	13 50 21
TUC		i(P)	13 49 59
		i	50 23
		iS	51 07
		iL	51 39
Aug. 26			
NEL		eP	14 47 57
Aug. 26			
COL		iP	18 49 07
		i	49 21
Aug. 26			
BC		iP	18 53 47.7
		i	54 54.3
COL		iP	18 52 43
		iPcP	53 00
HH		iP	18 53 50
		i	54 07
MONT		eP'	18 59 38
		iPP	19 03 03
NEL		iP	18 53 47.5
		i	54 23.4
		i	57 34.0
SJ		iP'	18 59 53
		iPP	19 03 31

Date and Station		Phase (GCT)
		h m s
TUC	e(P')	18 58 08
	eL	19 29 28
Aug. 26		
BC	iP	19 30 49.1
	i	31 16.2
	iPP	34 36.4
COL	iP	19 29 45
MONT	eP'	19 36 40
	iPP	40 04
HH	iP	19 30 52
	ePP	34 42
NEL	iP	19 30 48.5
	i	31 25.0
	iPP	34 36.4
SJ	iP	19 36 55
	iPP	40 31
Aug. 26		
COL	eP	19 57 53
HH	e(P)	20 00 05
Aug. 26		
HH	e(P)	20 10 53
Aug. 26		
COL	iP	22 10 20
	epP	10 42
Aug. 26		
COL	eP	22 14 26
HH	i(P)	22 17 27
	i	19 47
NEL	eP	22 18 24
Aug. 27		
BOZ	e(P)	00 00 15
HH	e(P)	00 02 40
Aug. 27		
TUC	e(P)	02 27 40
Aug. 27		
HH	iP	04 29 38
Aug. 27		
BC	iP	04 54 23.9
NEL	eP	04 54 26
Aug. 27		
HH	e(P)	05 37 16
Aug. 27		
HH	e(P)	07 07 17
	eL	09 44
Aug. 27		
COL	eP	09 03 53

Date and Station		Phase (GCT)
		h m s
Aug. 27		
BC	iP	11 07 31.4
	i	08 42.5
	i	09 16.6
	iPKKP	26 45.0
BOZ	eP	11 07 21
	iPcP	07 31
	e	11 24
BUT	eP	11 07 14
	iP	07 15C
	ipP	07 47
	e	13 38
	iS	17 30
	iScP	17 43
	eSS	22 08
	e	26 30
	eL	26 46
CHI	iSKS	11 19 09
	eS	20 07
	eSP	21 33
	eSS	27 08
	eL	39 40
COL	iP	11 04 57D
	ipP	05 27
	isP	05 37
	i	06 46
	eS	13 04
	esS	13 32
	e(ScS)	14 42
	eL	20 16
	eP'P'	34 30
COLU	eSKS	11 19 50
	iSKS	19 56
	e(PS)	23 15
	eSS	28 21
	eL	40 04
HONO	e(P)	11 04 36
	eS	12 03
	eSS	16 13
	eL	17 50
T_L = 11 sec. $A_{max.}$=6 mm.		
HH	iP	11 07 07D
	ipP	07 28
	eS	17 04
	eScS	17 13
	e(PS)	17 56
	iPKKP	26 20
	eP'P'	33 58
MONT	eP'	11 14 47
	iP'	14 48
	i	15 02
NEL	iP	11 07 31.2D
	ipP	07 58
	i	08 41.4
	i	09 04.7
	iPKKP	26 46.0
PHIL	e	11 14 25
	eSKS	19 46

Date and Station		Phase (GCT)
		h m s
PHIL	ePS	11 22 58
	eSS	28 46
	eSSS	33 15
	eL	44 59
RC	eP	11 07 52
	esP	08 33
	eS	18 16
	esS	18 39
	ePS	19 30
SLC	eP	11 07 29C
	iP	07 30
	ipP	07 57
	eS	17 49
	e	19 52
	eSS	23 33
	eL	34 01
SJ	eP	11 14 00
	ePKS	17 19
TUC	eP	11 07 55D
	iP	07 55
	i	08 05
	iPP	11 27
	e(SKS)	17 52
	eS	18 25
	esS	19 03
	eL	31 55
Aug. 27		
COL	iP	12 03 43
Aug. 27		
BOZ	eP	12 30 22
COL	iP	12 29 14
HH	eP	12 30 13
NEL	eP	12 31 38
TUC	eP	12 31 51
	eL	54 45
Aug. 27		
COL	iP	13 47 22
Aug. 27		
COL	iP	14 08 38
Aug. 27		
TUC	e(P)	14 34 12
Aug. 27		
NEL	e(P)	15 23 17
Aug. 27		
COL	iP	15 37 47
	e	37 54
Aug. 27		
HH	e(P)	20 11 20
Aug. 27		
HH	e(P)	20 34 04

Date and Station		Phase (GCT)
		h m s
Aug. 28		
BC	eP	00 00 09
HH	iP	00 00 28
	i	00 56
NEL	iP	00 00 07.8
MONT	iP	23 48 38
SJ	e(P)	23 56 16
TUC	eP	23 59 10
Aug. 28		
NEL	eP	00 59 19
Aug. 28		
HH	eP	02 25 54
Aug. 28		
COL	iP	02 24 47
	e	25 04
Aug. 28		
BC	eP	02 52 41
BUT	e(P)	02 50 26
COL	iP	02 47 44
HH	eP	02 50 16
NEL	iP	02 51 50.4
	iPcP	52 35.5
	i	52 42.0
	e	52 50
TUC	eP	02 52 14
Aug. 28		
COL	iP	03 46 43
TUC	e(P)	03 43 21
	i	44 04
	i	44 22
	i(S)	45 13
	iL	46 13
Aug. 28		
HH	e(P)	03 50 48
	i	53 38
	i	57 06
Aug. 28		
BC	eP	04 00 34
	i	00 44.1
	i	01 09.6
BUT	iP	04 00 19
COL	iP	03 58 01
	ipP	58 21
HH	iP	04 00 10
	ePP	03 16
MONT	eP'	04 07 50

Date and Station		Phase	(GCT)
			h m s
NEL		iP	04 00 34.9
		ipP	00 51.5
		i	01 10.3
		e	01 28
SLC		eP	04 00 35
TUC		eP	04 00 57
Aug. 28			
BUT		eP	04 53 46
Aug. 28			
COL		eP	05 04 13
Aug. 28			
SLC		eP	05 52 31
Aug. 28			
HH		e(P)	06 51 13
Aug. 28			
NEL		eP	07 48 56
Aug. 28			
HH		iP	10 05 46
NEL		eP	10 06 13
Aug. 28			
BC		iP	10 13 27.7
		iPcP	13 40.2
BOZ		iP	10 13 06
BUT		eP	10 13 01
		i	13 15
COL		iP	10 10 14
HH		iP	10 12 48
		iPcP	13 02
		e(PP)	15 59
MONT		iP'	10 21 16
		i	21 30
NEL		iP	10 13 28.1
		iPcP	13 42.3
		i	13 50.1
		i	14 17.1
		e	14 51
SLC		eP	10 13 23
		ePcP	13 36
		e	13 50
		e	14 07
TUC		iP	10 13 53
		iPcP	14 07
		i	14 10
Aug. 28			
BC		eP	13 57 55
COL		eP	13 58 19
		iP	58 24
HH		e(P)	14 01 45
NEL		iP	13 57 54.5
Aug. 28			
COL		iP	15 31 57
Aug. 28			
HH		e(P)	16 37 24
NEL		eP	16 37 45
Aug. 28			
HH		eP	20 05 37
Aug. 28			
HH		i(P)	21 23 56
Aug. 28			
HH		e(P)	21 41 47
NEL		iP	21 41 06.0
Aug. 28			
HH		e(P)	22 23 50
Aug. 28			
NEL		eP	22 58 38
Aug. 28			
BC		eP'	23 22 30
BOZ		eP'	23 23 18
HH		iP'	23 23 02
		e	23 44
		e	33 52
MONT		eP	23 11 18
		iP	11 20
NEL		eP	23 18 19.0
		iP'	22 27.8
TUC		eP	23 17 59
		e	21 12
		eL	51 45
Aug. 28			
BC		e(P)	23 34 49
NEL		iP	23 34 27.2
		epP	34 51
		esP	34 59
Aug. 28			
BOZ		e(P)	23 40 06
COL		eP	23 38 36
		i	38 47
		i	38 58
HH		e(P)	23 40 45
		eL	42 45
Aug. 29			
HH		e(P)	00 38 26
Aug. 29			
HH		e(P)	01 45 00
Aug. 29			
BOZ		eP	03 12 14
		e	14 16
HH		e(P)	03 12 06
		eL	14 41
NEL		eP	03 11 02
		i	11 15
		iS	12 21
		iL	12 35
SLC		e(P)	03 11 14
		eS	11 52
		eL	12 04
Aug. 29			
BOZ		eP	03 43 09
		eL	45 22
COL		eP	03 47 22
		iPcP	50 20
HH		eP	03 43 23
		iL	45 44
NEL		iP	03 42 19
		iL	43 37
SLC		eP	03 42 25
		i	42 55
		i	43 01
		i	43 17
		iS	43 24
Aug. 29			
COL		eP	04 04 20
BOZ		e(P)	04 00 08
		eS	02 14
		eL	02 34
HH		eP	04 00 23
		iL	03 02
NEL		iP	03 59 18
TUC		e(P)	04 00 27
		i	01 03
		i(S)	01 56
		iL	03 07
COL		iP	04 31 02
Aug. 29			
HH		eP	04 41 51
Aug. 29			
HH		e(P)	05 11 14
Aug. 29			
COL		eP	05 16 32
Aug. 29			
HH		eP	07 02 44
Aug. 29			
NEL		eP	07 03 09
Aug. 29			
COL		eP	10 23 58
Aug. 29			
HH		e(P)	12 59 37
		eL	13 02 11
Aug. 29			
BOZ		e(P)	13 59 39
Aug. 29			
COL		eP	16 17 42
NEL		e(P)	16 16 35
Aug. 29			
HH		e(P)	17 24 24
Aug. 29			
MONT		eP	18 43 50
Aug. 29			
COL		iP	19 15 04
Aug. 29			
HH		e(P)	19 28 35
		eL	30 48
Aug. 29			
NEL		e(P)	21 39 32
Aug. 29			
MONT		eP	23 24 23
SJ		eP	23 24 56
Aug. 29			
BC		eP	23 28 31
HH		eP	23 29 27
MONT		eP	23 28 25
NEL		eP	23 28 24
		e	28 44
SJ		eP	23 28 57
Aug. 29			
BC		eP	23 32 28
HH		eP	23 33 30
NEL		iP	23 32 27.3
Aug. 29			
NEL		eP	23 38 01
Aug. 30			
BOZ		e(P)	01 12 06
BUT		eP	01 13 31
		i	13 47
HH		e(P)	01 11 51

Date and Station		Phase (GCT)
		h m s
HH	eL	01 14 26
Aug. 30		
COL	eP	01 31 30
Aug. 30		
TUC	eP	01 48 26
Aug. 30		
MONT	eP	03 46 15
COL	eP	03 57 45
Aug. 30		
BC	iP	08 08 39.6
	ipP	08 51.9
	i	09 55.5
BOZ	eP	08 08 14
	ipP	08 31
BUT	eP	08 08 07
	ipP	08 23
	iS	16 50
	isS	17 13
	eSS	21 35
	eL	24 36
COL	iP	08 05 03C
	iS	11 10
	isS	11 27
	eL	14 09
HH	iP	08 07 53
	ipP	08 08
	ePP	10 22
	e(ScS)	17 42
	e	18 05
	eP'P'	36 45
MONT	eP'	08 16 54
NEL	eP	08 08 40
	iP	08 42.1
	i	08 50.1
	ipP	08 56.3
	i	09 30.3
PHIL	eS	08 21 11
	eL	39 34
SLC	iP	08 08 32
	ipP	08 47
SIT	eP	08 06 02
	e	06 11
	e(PcP)	07 35
	oPP	08 07
	eS	13 02
	i	13 18
	eScS	15 45
	eL	19 26
TUC	eP	08 09 08
	iP	09 10
	ipP	09 31
	e	12 27
	e(S)	18 45

Date and Station		Phase (GCT)
		h m s
TUC	ePS	08 19 28
	esPS	20 10
	eL	29 03
Aug. 30		
COL	iP	08 45 00
	i	45 07
HH	eP	08 42 01
Aug. 30		
COL	iP	09 24 24
HH	eP	09 25 41
Aug. 30		
HH	e(P)	11 17 58
	eL	20 39
Aug. 30		
HH	e(P)	11 42 38
COL	eP	11 49 56
Aug. 30		
HH	eP	15 14 25
	i	14 45
Aug. 30		
NEL	eP	17 47 20
Aug. 30		
COL	iP	17 58 02
Aug. 30		
BUT	eP	18 15 1[illegible]
	eS	15 54
Aug. 30		
BUT	eP	18 59 17
	eS	19 00 55
Aug. 30		
BOZ	eP	19 14 21
HH	e(P)	19 14 13
	eL	16 36
Aug. 30		
BOZ	e(P)	19 59 26
HH	e(P)	19 59 13
	eL	20 01 53
Aug. 30		
COL	iP	20 46 46
Aug. 30		
BC	iP	21 26 23.6
COL	iP	21 22 27
HH	iP	21 25 31
	i	26 31
MONT	eP'	21 35 17
NEL	iP	21 26 24.6

Date and Station		Phase (GCT)
		h m s
NEL	i	21 26 33.6
	i	27 19.1
SLC	eP	21 26 14
	e	26 53
	e	27 26
Aug. 30		
HH	eP	22 41 01
Aug. 31		
BC	eP	06 44 36
NEL	iP	06 44 33.2
SLC	eP	06 44 13
TUC	eP	06 43 50
	eL	53 58
Aug. 31		
HH	i(P)	07 58 45
NEL	iP	07 58 46
Aug. 31		
COL	iP	08 32 16
HH	eP	08 35 04
Aug. 31		
COL	iP	09 38 10
NEL	eP	09 43 56
Aug. 31		
HH	e(P)	10 51 39
Aug. 31		
BC	iP	11 15 57.9
COL	iP	11 14 43
NEL	iP	11 14 57.6
	e	15 06
	e	15 27
TUC	eP	11 15 07
Aug. 31		
COL	eP	11 49 38
Aug. 31		
BOZ	e(P)	13 31 26
BUT	e(P)	13 31 10
	eS	32 56
HH	e(P)	13 31 21
	eL	33 51
Aug. 31		
HH	i(P)	15 53 52
MONT	iP	15 42 24
	iS	42 49
NEL	iP	15 53 05.4

Date and Station		Phase (GCT)
		h m s
SLC	e(P)	15 53 48
	e	54 43
Aug. 31		
COL	iP	17 01 01
Aug. 31		
BC	e(P)	18 28 56
COL	iP	18 26 56
HH	e(P)	18 31 53
NEL	eP	18 27 56
SJ	eP	18 34 01
Aug. 31		
NEL	iP	19 03 54.0
Aug. 31		
HH	e(P)	19 39 54
	eL	42 18
Aug. 31		
HH	e(P)	20 38 48
	eL	42 17
Aug. 31		
BC	eP	22 20 38
BOZ	eP	22 21 31
BUT	eP	22 21 47
	i	22 25
COL	e(P)	22 25 41
	e	26 25
HH	e(P)	22 21 46
NEL	iP	22 20 39.5
	i	20 53.5
SLC	eP	22 20 48
TUC	eP	22 22 23
	i	22 32
UK	e(P)	22 20 45
	eS	21 36
Aug. 31		
BOZ	eP	22 22 34
	i	22 51
	i	23 04
	eS	24 08
	iL	24 40
BUT	i(P)	22 22 28
	i	23 04
	i	23 19
CHI	eP	22 25 37
	eS	29 57
	eL	32 13

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Date and Station		Phase (GCT) h m s
COL	iP	22 26 46
	e	28 01
	iPcP	29 46
	eS	31 50
	eL	33 50
COLU	eL	22 33 34
HONO	eP	22 27 41
	eS	33 33
	eL	35 51
HH	iP	22 22 50
	iL	25 21
MONT	eP	22 32 29
NEL	i(P)	22 21 57
RC	eP	22 23 27
	e	23 42
	e	24 14
	eS	25 38
	eL	25 58
SLC	iP	22 21 51
	eS	22 51
	iS	22 53
	iL	23 05
SIT	eP	22 25 11
	e	25 42
	e	26 34
	iS	29 14
	i	29 46
	eL	30 10
TUC	eP	22 22 46
	i	22 54
	i	23 00
	iS	24 46
	i	25 08
	iL	25 29
UK	eP	22 21 27
	eS	22 06
	eL	22 22
	iL	22 25
WASH	iP	22 27 05
	e	31 16
	eS	32 05
	eL	35 40
Aug. 31		
HH	e(P)	23 13 09

ADDENDUM

Date and Station		Phase (GCT) h m s
Aug. 9		
RC	iP	19 26 51
	epP	27 15
	ePcP	27 52
	epPP	29 28
	e(PcS)	31 40
	eS	34 56
	esS	35 19
	e	35 40
RC	e(ScS)	19 36 34
	e	36 59
	eL	41 29
SIT	iP	19 23 44
	ipP	24 09
	iPP	25 09
	isPP	25 34
	i(PcP)	25 54
	e	26 20
	iS	29 18
	isS	30 10
	e	30 52
	eL	31 52

Local and Minor Earthquakes		Local and Minor Earthquakes		Local and Minor Earthquakes		Local and Minor Earthquakes
day	hour	day	hour	day	hour	
BOZ		MONT		TUC		
Aug.		Aug.		Aug.		
31	19.7	16	17.0	17	08.7	
	20.6	17	14.7		19.6	
			16.1	18	11.7	
BUT		18	22.9	19	12.2	
Aug.		19	09.8	21	02.9	
8	22.5		10.8		04.4	
10	07.6	21	07.0	22	05.4	
11	08.7	22	05.7		14.3	
14	03.5		15.7	23	00.8	
	23.0		21.7		09.7	
15	16.0	23	20.6	24	03.5	
16	00.7	25	09.6		06.3	
		28	06.1		06.5	
COL					06.6	
Aug.		SJ			06.9	
6	22.8	Aug.			07.1	
7	07.4	1	10.7		07.6	
9	00.2	2	14.4		08.1	
	02.9	3	11.4		08.3	
	03.9	10	00.2		08.7	
	04.5	11	21.2		09.3	
	13.1	19	07.9		09.4	
	15.1	21	00.9		11.0	
10	23.5	23	23.0		15.9	
16	20.1	25	08.6		15.9	
	20.6	27	16.6		16.2	
17	02.2		17.2		18.2	
	09.4		19.3		21.4	
18	11.7		20.7	25	02.9	
	13.5				03.5	
19	23.3	TUC			08.8	
	05.0	Aug.			09.4	
	05.5	3	03.6		09.5	
	07.2		03.7		11.2	
21	04.6		06.1		12.3	
	06.5		07.8		16.1	
	14.6	6	03.5		18.9	
25	12.6		11.2		20.1	
29	01.6		15.8		22.0	
30	01.0	8	06.8		22.4	
	01.6	9	11.8	26	04.4	
31	01.7		18.8		06.2	
		10	06.4		12.8	
HONO		11	01.9		13.0	
Aug.			03.9	27	00.0	
8	00.5		08.3		07.1	
		12	11.9	28	04.9	
MONT		13	05.5		14.0	
1	22.3		05.5		23.7	
2	09.0		05.8	29	03.2	
	09.1		08.1		03.7	
	13.8		08.7		04.0	
	16.1	13	08.9		13.0	
3	19.5		12.1		19.5	
4	09.9		12.9		23.5	
	12.3		16.4	30	01.2	
	22.5		18.0		01.4	
9	03.4	14	02.2		06.2	
10	00.8		07.7		08.5	
11	17.7		11.6		11.3	
	18.5	15	05.4		19.2	
15	05.9		08.9		20.0	
16	03.6	16	05.0	31	13.5	
	09.4		06.5		23.2	
	16.4		11.3			
	16.7	17	03.8			

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