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COAST & GEODETIC SURVEY
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SEISMOLOGICAL BULLETIN

May, 1957

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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

1957

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

**Balboa Heights, C. Z. (BH)
The Panama Canal Co.
*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
*Eureka, Nev. (EUR)
Eureka Corporation Limited
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**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 Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
Other stations are observatories of the 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 indicates 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 Coast and Geodetic Survey, except those from Balboa Heights and Burlington, 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.

Corrections to station and instrumental constants for 1955, 1956, and 1957.--
A recent check of ground motions for traces up on the vertical Wilson-Lamison seismographs at Bozeman and Salt Lake City indicates they should read down for compressional waves. The error probably existed from March or May 1955 to the present time. Readings for both stations are stated correctly in the March 1957 Seismological Bulletin.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
May	h m s	°		°		
1	00 45 00*	41½	N.	78½	E.	Kirghiz-China border
1	23 28 09*	52½	N.	171	W.	Fox Islands, Aleutian Islands.
2	01 50 09*	4½	S.	153	E.	Near New Britain. Felt at Rabaul and Namatana. h about 60 km.
2	02 22 18*	54	N.	166	W.	Fox Islands, Aleutian Islands.
2	03 55 34*	72	N.	67½	W.	Baffin Bay. Mag. 6¼ - 6½.
2	10 34 14*	56½	S.	123	W.	South Pacific Ocean.
2	11 29 13*	52½	N.	169	W.	Fox Islands, Aleutian Islands.
2	11 38 52*	52½	N.	169	W.	do.
2	13 53 27*	51	N.	176½	W.	Andreanof Islands, Aleutian Islands.
2	21 36 25*	7½	S.	120	E.	Flores Sea. h about 600 km.
3	06 15 01**					Andreanof Islands, Aleutian Islands.
3	07 10 25*	51	N.	179½	E.	do.
3	14 43 03*	12½	N.	125½	E.	Near east coast of Samar, Philippine Islands.
4	10 05 45*	3½	S.	137	E.	Western New Guinea.
4	11 22 53*	52½	N.	166½	W.	Fox Islands, Aleutian Islands.
4	14 52 20*	37	N.	96½	E.	Chinghai Province, China.
6	11 18 15*	52	N.	173	W.	Andreanof Islands, Aleutian Islands.
6	11 19 47*	52	N.	173	W.	do.
6	11 37 33*	17½	S.	176	W.	Tonga Islands region. h about 250 km.
6	15 06 47*	36	N.	51	E.	Northern Iran.
6	21 41 30*	10½	N.	127	E.	Off coast of Mindanao, Philippine Islands.
7	01 18 28*	1	N.	85½	W.	Off coast of Ecuador.
7	05 36 32*	51½	N.	179½	E.	Andreanof Islands, Aleutian Islands.
7	09 09 53*	51½	N.	170	W.	Fox Islands, Aleutian Islands.
7	22 19 03*	30	N.	137½	E.	South of Honshu, Japan.
8	14 24 30*	41½	N.	75	E.	Kirghiz S.S.R.
8	20 09 53*	15½	S.	179	E.	Fiji Islands. h about 400 km.
11	07 30 22*	51½	N.	178½	W.	Andreanof Islands, Aleutian Islands.
11	14 56 30*	52½	N.	160	E.	Near east coast of Kamchatka.
12	04 47 44*	60½	S.	26	W.	Sandwich Islands region.
12	06 48 27*	53	N.	142	E.	Northern Sakhalin.
12	11 29 07*	8½	S.	107½	E.	Near south coast of Java.
13	02 20 55*	44	N.	135½	E.	Sikhota Alin, Siberia. h about 300 km.
13	14 24 58**					Western North Carolina. Felt.
13	15 19 35*	32½	N.	137	E.	South of Honshu, Japan. h about 400 km.
14	02 59 03*	38	N.	140	E.	Northern Honshu, Japan.
14	18 43 28**					Andreanof Islands, Aleutian Islands.
15	01 19 59*	35	N.	70	E.	Northern Afghanistan.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	°	°	
15	01 43 05*	51½ N.	175 W.	Andreanof Islands, Aleutian Islands.
15	02 11 05*	17½ N.	93½ W.	Chiapas, Mexico. h about 100 km.
16	14 54 33*	28 S.	66 W.	Catamarca Province, Argentina. h about 100 km.
17	02 42 02*	18 S.	176½ W.	Fiji Islands region. h about 60 km.
17	20 42 40**			Revilla Gigedo Islands region.
18	05 24 01*	51 N.	171 W.	Fox Islands, Aleutian Islands.
19	05 19 40**			Near coast of central Peru.
19	07 17 20**			About 800 miles west of Galapagos Islands.
19	20 45 03*	25 N.	125½ E.	Ryukyu Islands.
19	21 00 36*	12 N.	87 W.	Near coast of Nicaragua. h about 100 km.
19	22 41 03*	8 S.	74 W.	Peru. h about 200 km.
20	01 50 54*	51 N.	180	Andreanof Islands, Aleutian Islands.
20	03 42 26*	53½ N.	167 W.	Fox Islands, Aleutian Islands.
20	06 38 30**			Off coast of Costa Rica.
20	19 57 35*	38½ N.	14 E.	Sicily foreshock. Felt.
21	01 11 58*	21½ N.	144 E.	Mariana Islands region. h about 100 km. Mag. 7 - 7¼.
21	11 36 06*	36½ N.	141½ E.	Near east coast of Honshu, Japan. Felt at Tokyo.
21	11 44 04*	38½ N.	14 E.	Near north coast of Sicily. Felt.
21	13 24 16*	39½ N.	23 E.	Near east coast of Greece. Felt.
22	13 29 44*	50 N.	177 W.	Andreanof Islands, Aleutian Islands. Mag. 6½.
22	18 32 35*	77 N.	5 E.	Svalbard Islands region.
24	02 37 37*	3 N.	76½ W.	Colombia. Two killed, many injured and moderate property damage. Mag. 6-3/4.
24	03 36 33*	53 N.	167½ W.	Fox Islands, Aleutian Islands. Mag. 6 - 6¼ (Berk).
24	10 07 40*	17 N.	146 E.	Mariana Islands. h about 100 km.
24	12 49 14*	15 S.	173½ W.	Samoa Islands region.
25	14 23 37*	25½ S.	65 W.	Salta Province, Argentina.
26	04 16 44**			Fox Islands, Aleutian Islands.
26	06 33 31*	41 N.	31 E.	Bolu Province, Turkey. 66 killed, many injured, and major property damage. Mag. 7.
26	08 54 45*	40½ N.	31 E.	Turkey aftershock.
26	09 13 43*	41 N.	31 E.	do.
26	09 36 33*	41 N.	31 E.	Turkey aftershock. Felt.
26	15 53 30*	3 S.	131 E.	Ceram Island region.
26	15 59 33*	33 N.	115½ W.	Imperial County, California. Felt.
27	07 05 11*	41 N.	31 E.	Turkey aftershock.
27	10 55 16*	4 N.	83 W.	Off coast of Colombia.
27	11 01 26*	40½ N.	31 E.	Turkey aftershock. Felt.
27	13 17 37*	51½ N.	177½ W.	Andreanof Islands, Aleutian Islands.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
May	h m s	°	°	
27	19 57 56*	52 N.	170½ W.	Fox Islands, Aleutian Islands.
28	00 09 45*	40½ N.	31 E.	Turkey aftershock.
28	00 19 10**			Samoa Islands.
28	01 19 26*	53 N.	169 W.	Fox Islands, Aleutian Islands.
28	05 51 30*	25½ N.	95 E.	Pakistan-Burma border.
28	23 19 39*	15 S.	168 E.	New Hebrides Islands. h about 300 km.
28	23 46 20**			Near coast of Formosa.
29	10 08 27*	31 N.	142 E.	South of Honshu, Japan.
29	10 17 43*	40½ N.	31 E.	Turkey aftershock.
29	18 39 09**			Southern Greece. Felt at Argolide.
30	00 18 52*	20 S.	175 W.	Tonga Islands.
30	19 49 25*	41½ N.	143 E.	Near south coast of Hokkaido, Japan.
30	20 58 15*	22 S.	179 W.	Fiji Islands region. h about 600 km.
31	06 16 27*	27½ S.	63 W.	Santiago del Estero Province, Argentina. Felt. h about 600 km. Mag. 6¼ - 6½.
31	03 10 18*	54 N.	163½ W.	Unimak Island region.
31	16 19 39*	55 N.	169 W.	Fox Islands, Aleutian Islands.
31	21 57 46*	3½ N.	77 W.	Near coast of Colombia. h about 100 km.
31	22 17 10*	51 N.	179½ W.	Andreanof Islands, Aleutian Islands.

Date and Station		Phase (GCT) h m s
May 1		
COL	iP	00 56 01
	i	58 29
HH	eP	00 58 00
May 1		
EUR	iP	05 30 13
HH	eP	05 29 44
TUC	eP	05 31 15
May 1		
EUR	eP	12 15 08
	e	16 01
May 1		
COL	iP	14 12 10
May 1		
COL	eP	14 54 20
EUR	iP	14 57 41
RC	eP	14 58 22
May 1		
EUR	iP	15 56 29
May 1		
BH	iP	16 14 11
	iS	14 25
May 1		
HH	eP	17 31 30
May 1		
COL	iP	20 12 56
	i	13 28
May 1		
HH	eP	21 09 59
May 1		
COL	eP	22 04 21
EUR	iP	22 07 43
HH	eP	22 07 13
May 1		
BC	iP	23 36 06
BOZ	eP	23 35 37
BUT	iP	23 35 28
	ePcP	37 04
	iS	41 16
	eL	45 04
COL	eP	23 32 14
	eS	35 40
	iL	35 53
COLU	iP	23 38 45
EUR	iP	23 35 41
	iS	41 32
HH	iP	23 35 12
	ePcP	37 39
	iS	40 48
	iScP	41 21
	eL	45 28
RC	iP	23 36 22
	eScP	41 55
	eS	42 55
SJ	iP	23 40 44
SIT	eP	23 32 55
	i	33 31
	eS	36 48
	e	37 29
	eL	38 28
TUC	iP	23 36 45
	e	39 20
	e(S)	43 39
WASH	eP	23 38 59
May 1		
COL	iP	23 50 25
May 2		
COL	iP	02 02 24
	i	02 41
EUR	iP	02 03 26
HH	eP	02 03 33
SJ	eP'	02 09 37
May 2		
BC	eP	02 29 50
BOZ	eP	02 29 19
COL	eP	02 25 46
	e(S)	29 07
	eL	29 40
COLU	eP	02 32 29
EUR	iP	02 29 25
	i	29 35
	iPcP	31 48
HH	iP	02 28 51
	iPcP	31 37
	eScP	35 18
RC	iP	02 30 04
SJ	iP	02 34 35
SIT	iP	02 26 27
	eS	29 52
TUC	iP	02 30 31
	i	30 44
	i	31 04
May 2		
BH	iP	04 06 05
BC	iP	04 03 38
	ePP	05 25
BOZ	iP	04 02 13
	eS	07 24
	iL	11 24
BUT	iP	04 02 12
	iPP	03 14
	iPcP	04 16
	e	06 08
	eS	07 13
	iS	07 34
	iL	10 06
CHI	eP	04 02 00
	eS	06 52
	e	07 16
	eL	08 12
COL	iP	04 01 27
	i	01 44
	i	02 44
	iPcP	04 40
	eS	06 02
	eL	07 13
COLU	iP	04 03 00
	iPP	04 15
	e(PPP)	05 04
	eS	08 57
	iS	08 58
	i	09 40
	eL	11 24
	iL	11 34
EUR	iP	04 03 14
	i	03 38
	iPP	04 56
HH	iP	04 01 58
	i	02 40
	eL	07 56
PHIL	eP	04 02 09
	ePP	03 03
	eS	07 21
	eL	08 27
	iL	12 18
RC	iP	04 02 09
	e(PP)	03 05
	ePcP	04 33
	eL	09 02
	iL	11 55
SLC	iP	04 02 54
	eS	08 49
	eL	13 49
SJ	iP	04 04 57
SIT	iP	04 01 50
	iPP	02 42
	e	03 35
	iPcP	04 47
	iS	07 09
	eL	08 08
	iL	11 32
TUC	iP	04 03 58
	eS	11 02
UK	iP	04 03 34
	e(PP)	05 26
	eL	21 59
WASH	iP	04 02 15
	eS	07 37
May 2		
EUR	iP	07 37 12
May 2		
TUC	eP	09 42 57
May 2		
RC	e(P)	09 53 21
May 2		
BH	iP	10 45 57
	iS	55 34
COL	eP'	10 53 12
	i	53 18
	i	53 39
EUR	iP	10 47 45
RC	ePP	10 52 26
SJ	eP	10 47 28
TUC	eP	10 47 13
	eS	58 05
	eL	11 11 10
May 2		
TUC	e(P)	11 30 00
May 2		
BC	eP	11 37 00
BOZ	eP	11 36 31
BUT	eP	11 36 21
	iP	36 23
	iS	42 05
	eL	43 51
CHI	eS	11 55 32
	e(ScS)	57 24
	eSS	59 16
	eL	12 00 46
COL	eP	11 33 04C
	i	33 06C
	e(S)	36 40
	iL	38 20
COLU	iP	11 39 39
	eS	47 56
	eL	54 32
EUR	iP	11 36 35
HONO	iP	11 35 54
HH	iP	11 36 04

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Date and Station		Phase (GCT) h m s
HH	ePcP	11 38 50
	eS	41 31
PHIL	e(S)	11 48 15
	eSS	51 24
	eL	57 33
RC	eP	11 37 16
SLC	iP	11 36 52
SJ	eP	11 41 40
SIT	iP	11 33 46
	i	34 39
	iS	37 29
	iL	37 58
TUC	eP	11 37 40
	i	37 42
	eS	44 29
	eL	52 03
UK	eP	11 36 03
May 2		
BC	eP	11 46 40
BOZ	eP	11 46 13
	i	46 24
BUT	iP	11 46 01
	iS	51 40
	eL	56 00
COL	iP	11 42 46
COLU	iP	11 49 19
	iS	57 44
	iScS	59 10
	eL	12 04 50
EUR	iP	11 46 17
HONO	iP	11 45 23
	ePcP	47 08
	e(S)	49 30
	eL	53 30
HH	eP	11 45 44
	iP	45 45
	iS	51 13
	eL	54 08
	eScS	56 07
RC	iP	11 46 57
	i	47 14
	iS	53 21
	eL	58 02
SLC	iP	11 46 46
	eL	55 55
SJ	eP	11 51 22
TUC	eP	11 47 21
	eS	54 07
	iS	54 08
TUC	eScS	11 57 18
	iL	57 38
UK	iP	11 45 42
	eL	59 17
WASH	iP	11 49 14
May 2		
COL	eP	12 32 49
	i	33 00
HH	eP	12 36 32
May 2		
BC	eP	12 42 47
EUR	iP	12 42 22
HH	eP	12 41 49
RC	iP	12 43 03
TUC	eP	12 43 29
	e	45 18
May 2		
BC	eP	14 01 54
BOZ	eP	14 01 26
	i	01 38
COL	iP	13 58 06
	e(S)	14 01 50
	eL	02 08
EUR	iP	14 02 33
HH	iP	14 01 01
	i	01 11
RC	eP	14 02 11
	i	02 23
SLC	eP	14 01 54
TUC	eP	14 02 31
	e	02 48
May 2		
TUC	eP	16 19 05
May 2		
COL	iP	19 06 51
	i	07 00
	i	08 08
	i	09 01
HH	iP	19 10 34
May 2		
EUR	eP	20 23 38
May 2		
BH	iP	21 55 23
BC	iP'	21 54 20
BOZ	iP'	21 54 19
BOZ	i	21 54 32
	iPKKP	22 04 21
BUT	iP'	21 54 19
	eSKS	22 00 14
	iPKKP	04 27
COL	iP	21 49 00
	iSKS	58 40
	iSKKS	59 09
	e(sP)	22 01 23
	esPS	04 51
	eS	09 53
	eP'P'	13 39
COLU	iP'	21 55 05
	i	56 37
	ipP'	57 20
EUR	e(P)	21 51 03
	iP'	54 17
	ipP'	56 24
	iSKS	22 00 15
	i(SKKS)	01 52
	iPKKP	04 25
	iSKKP	07 50
	i	08 14
	iP'P'	12 58
HONO	iP	21 48 05
HH	eP	21 51 00
	iP'	54 12
	ipP'	56 53
	eSKS	22 00 08
	i(SKKS)	01 38
	ePKKP	04 29
RC	iP'	21 54 28
	iPP	56 53
	ePKKP	22 03 57
SLC	iP'	21 54 21
SJ	iP'	21 55 28
	iP'	56 38
	e(PP)	59 45
	ePP	22 02 32
	ePPP	04 08
	eSKKS	05 03
TUC	iP'	21 54 29
	ipP'	56 51
	eSKS	22 00 07
	e	02 35
UK	eP'	21 54 06
WASH	iP'	21 55 02
	ipP'	57 14
May 3		
COL	iP	01 03 13
EUR	iP	01 06 46
	i	06 57
HH	iP	01 06 13
RC	eP	01 07 26
TUC	eP	01 07 51
	e	08 04
May 3		
TUC	e(P)	02 09 52
May 3		
EUR	iP	05 50 35
RC	eP	05 51 02
May 3		
COL	eP	06 08 25
EUR	iP	06 11 50
HH	eP	06 11 20
RC	eP	06 12 29
TUC	eP	06 12 51
May 3		
BC	iP	07 20 12
BOZ	iP	07 18 44
	i	18 54
BUT	ip	07 18 35
COL	eP	07 15 21
	iPP	16 01
	i	17 03
	eS	19 21
	eL	19 35
COLU	iP	07 21 38
EUR	iP	07 18 48
HONO	iP	07 17 17
HH	eP	07 18 13
	iP	18 14
RC	iP	07 19 26
SLC	eP	07 19 03
SJ	iP	07 23 30
TUC	iP	07 19 48
	e	19 55
	e	21 08
	eL	44 48
UK	eP	07 18 14
May 3		
TUC	e(P)	09 55 43
May 3		
HH	eP	10 10 30
	e	13 17
RC	eP	10 11 57

Date and Station		Phase	(GCT) h m s
TUC		e(P)	10 12 06
		e	12 21
May 3 TUC		e(P)	10 22 37
		e	22 46
May 3 TUC		eP	10 59 55
May 3 BC		eP	12 27 37
BOZ		eP	12 27 37
COL		eP	12 29 32
EUR		iP	12 27 00
HH		eP	12 27 52
RC		eP	12 27 30
SLC		eP	12 27 07
TUC		eP	12 26 13
		e	28 08
May 3 COL		iP	13 59 54
		i	14 03 25
		i	04 11
EUR		iP	14 03 27
HH		eP	14 03 01
RC		eP	14 04 12
May 3 EUR		eP	14 26 12
May 3 BH		iP	15 02 48
COL		eP	14 54 58
HH		eP	14 55 22
SJ		iP'	15 02 48
May 3 COL		iP	15 29 22
May 3 BC		iP	16 24 49
BOZ		eP	16 23 22
COL		iP	16 19 59
		i	20 00
		iPP	20 12
		i	20 44
		i	21 46
EUR		iP	16 23 28
HH		eP	16 22 56
		iP	22 57
RC		eP	16 24 05
SLC		eP	16 23 40
SJ		iP	16 28 07
TUC		eP	16 24 26
May 3 HH		eP	17 24 50
		i	24 58
May 3 COL		iP	19 01 07
EUR		iP	19 04 36
HH		eP	19 04 04
		e	06 04
TUC		eP	19 05 36
May 3 COL		iP	21 49 13
EUR		iP	21 52 43
HH		eP	21 52 12
		e	54 12
SLC		eP	21 52 35
TUC		eP	21 53 44
May 3 SLC		eP	22 02 50
TUC		eP	22 00 58
May 3 SLC		eP	23 50 51
May 4 COL		eP	00 16 01
May 4 COL		iP	02 09 53
EUR		iP	02 12 35
HH		eP	02 12 14
RC		eP	02 12 56
May 4 EUR		iP	04 38 46
		iS	39 12
May 4 COL		eP	07 17 29
		i	17 34
May 4 TUC		eP	08 21 13
May 4 COL		iP	09 48 02
May 4 BH		iP'	10 25 20
COL		iP	10 18 32
		i	19 02
		e	20 53
		iS	29 12
		ePS	29 57
		eL	45 02
EUR		iP	10 20 03
		iPP	24 22
		i	25 03
HH		eP	10 20 10
		ePP	24 24
RC		ePP	10 24 59
		e	25 14
SJ		eP'	10 25 39
		iPP	26 01
TUC		ePP	10 24 45
		iL	56 42
May 4 BOZ		eP	11 30 01
COL		iP	11 26 38
EUR		iP	11 30 04
HH		eP	11 29 34
RC		eP	11 30 46
TUC		eP	11 31 08
May 4 COL		iP	11 41 04
EUR		iP	11 44 31
HH		eP	11 43 59
		e	46 56
RC		eP	11 45 11
		e	48 07
TUC		eP	11 45 35
May 4 COL		iP	11 44 01
TUC		eP	11 48 30
May 4 COL		iP	12 44 29
May 4 COL		eP	13 18 21
HH		eP	13 20 35
May 4 COL		iP	15 03 14
		i	03 34
		i	03 48
EUR		eP'	15 10 07
May 4 HH		eP	16 48 05
		i	48 18
		e	55 09
May 4 HH		eP	18 06 20
May 4 HH		eP	18 55 34
		e	59 07
May 4 HH		eP	21 10 57
		e	11 17
		e(S)	11 54
		iL	12 25
May 4 COL		iP	23 20 53
May 4 COL		iP	23 36 03
EUR		eP	23 39 29
HH		eP	23 38 58
		e	44 57
RC		eP	23 40 08
TUC		eP	23 40 30
May 5 COL		iP	00 47 57
May 5 EUR		eP	00 58 02
HH		eP	00 56 22
		e	56 29
May 5 HH		eP	05 00 40
May 5 EUR		eP	05 54 28
May 5 COL		eP	21 30 11
EUR		iP	21 33 39
HH		eP	21 33 09
May 5 COL		eP	21 41 54
May 5 EUR		eP	23 38 02
May 6 EUR		eP	00 07 16
May 6 COL		iP	01 11 11

Date and Station		Phase (GCT) h m s
May 6		
SIT	iP	03 30 55
	i	31 10
May 6		
COL	eP	03 42 13
May 6		
HH	eP	08 34 54
May 6		
COL	eP	10 11 33
HH	eP	10 14 30
	e	14 42
May 6		
BC	iP	11 26 24
BOZ	eP	11 25 56
COL	iP	11 22 33
COLU	iP	11 29 02
	i	29 16
EUR	iP	11 26 01
HH	iP	11 25 30
RC	iP	11 26 40
SLC	iP	11 26 15
SJ	eP	11 30 50
TUC	eP	11 27 02
	i	27 16
May 6		
BC	iP	11 27 57
BOZ	iP	11 27 29
COL	iP	11 24 05
	i	26 19
	i	26 33
	eS	27 19
	iS	27 35
	eL	27 50
COLU	iP	11 30 34
EUR	iP	11 27 35
	i	28 44
	i	29 05
HH	iP	11 27 03
	e(PP)	29 35
	eS	33 04
	eL	37 14
RC	iP	11 27 13
	e	27 31
SIT	iP	11 24 50
	ipP	25 27
	eS	27 26
	eL	29 03

Date and Station		Phase (GCT) h m s
SLC	iP	11 27 48
SJ	iP	11 32 24
	i	32 38
TUC	iP	11 28 35
	i	28 49
UK	eP	11 26 58
May 6		
BC	iP	11 49 12
COL	iP	11 49 44
	ipP	50 47
EUR	iP	11 49 49
	ipP	50 57
HH	eP	11 49 48
	epP	50 49
TUC	iP	11 49 17
	epP	50 17
May 6		
TUC	iP	13 27 49
May 6		
COL	iP	13 57 18
May 6		
COL	iP	14 25 17
May 6		
COL	iP	14 31 37
May 6		
COL	iP	15 18 49
HH	eP	15 20 18
May 6		
HH	eP	17 05 28
May 6		
COL	iP	19 17 17
May 6		
COL	iP	20 34 29
EUR	eP	20 37 58
May 6		
SLC	eP	21 48 11
TUC	i(P)	21 49 03
May 6		
COL	iP	21 53 34
HH	eP	21 55 25
SJ	e(P)	22 01 26
May 6		
HH	eP	22 21 35
	i	22 02

Date and Station		Phase (GCT) h m s
May 6		
EUR	eP	22 57 01
HH	iP	22 56 41
May 7		
EUR	eP	01 11 13
May 7		
BH	iP	01 20 50
	iS	22 47
BC	eP	01 26 41
EUR	eP	01 27 04
	i	27 08
HH	eP	01 27 48
RC	eP	01 26 53
SJ	eP	01 24 03
TUC	eP	01 26 00
	eL	39 10
May 7		
EUR	eP	02 17 27
May 7		
COL	eP	03 38 31
HH	e(P)	03 41 30
	e	41 43
May 7		
COL	eP	05 40 44
EUR	eP	05 44 15
TUC	eP	05 45 22
May 7		
BC	iP	05 45 17
BOZ	iP	05 44 51
BUT	iP	05 45 41
	iS	51 11
	eL	54 26
COL	iP	05 41 26
	i	41 47
	e	42 15
	e	42 50
	eS	44 26
	eL	45 23
COLU	iP	05 47 46
	eS	56 54
	eL	06 09 19
EUR	iP	05 44 53
	i	46 11
	iPP	46 43
	e	50 24
HONO	iP	05 43 22

Date and Station		Phase (GCT) h m s
HH	eP	05 44 24
	i	44 26
	eS	50 43
	eL	54 29
RC	iP	05 45 32
SLC	iP	05 45 09
SJ	iP	05 49 36
	i	49 48
TUC	iP	05 45 55
	e	52 18
	eL	06 05 10
UK	iP	05 44 21
	e	44 36
May 7		
COL	eP	08 08 10
May 7		
BC	eP	09 17 47
BOZ	iP	09 17 21
BUT	eP	09 17 10
COL	iP	09 14 03
EUR	eP	09 17 23
HH	iP	09 16 54
	ePcP	19 21
RC	iP	09 18 06
SLC	eP	09 17 39
TUC	eP	09 18 26
May 7		
COL	iP	18 23 59
May 7		
COL	eP	19 28 21
May 7		
RC	eP	20 36 00
May 7		
HH	eP	22 05 12
May 7		
COL	iP	22 28 37
EUR	eP	22 31 19
	i	31 32
HH	eP	22 31 01
	e(PP)	34 29
May 7		
EUR	iP	22 55 11
HH	eP	22 54 42

Date and Station		Phase	(GCT) h m s
May 8			
COL		eP	04 17 44
May 8			
HH		eP	07 10 05
May 8			
TUC		e(P)	09 58 23
May 8			
HH		eP	10 16 27
RC		eP	10 17 09
May 8			
COL		eP	10 36 52
HH		e(P)	10 39 43
RC		eP'	10 41 04
May 8			
COL		eP	13 03 54
May 8			
COL		iP	14 35 38
May 8			
COL		eP	14 59 05
May 8			
EUR		iP	16 52 51
May 8			
COL		eP	17 10 27
May 8			
COL		iP	18 11 25
EUR		iP	18 14 54
HH		eP	18 14 22
RC		iP	18 15 31
TUC		eP	18 15 54
		e	16 31
May 8			
COL		iP	19 16 48
EUR		iP	19 20 05
HH		e(P)	19 19 37
May 8			
EUR		iP	20 02 22
HH		eP	20 04 06
RC		e(P)	20 07 36
TUC		iP	20 00 20
		e(S)	00 25
		eL	00 36
May 8			
EUR		iP	20 05 16
May 8			
COL		iP	20 21 45
EUR		iP	20 21 35
HH		eP	20 22 03
TUC		eP	20 21 39
		i	21 48
May 8			
COL		iP	21 59 51
EUR		eP	22 03 27
May 9			
COL		iP	08 55 44
May 9			
COL		iP	10 11 06
EUR		iP	10 10 46
TUC		iP	10 10 46
May 9			
COL		eP	10 50 19
May 9			
COL		eP	10 54 08
EUR		iP	10 53 39
		i	55 38
HH		iP	10 53 10
		e	55 16
RC		iP	10 54 19
TUC		eP	10 54 40
May 9			
COL		iP	15 00 26
May 9			
COL		iP	16 05 33
May 9			
COL		eP	17 45 28
EUR		iP	17 48 59
		i	51 06
HH		eP	17 48 27
		e	48 36
		i	50 55
RC		eP	17 49 39
TUC		eP	17 50 02
May 9			
EUR		iP	23 06 31
May 9			
HONO		iP	23 28 34
May 10			
COL		iP	00 45 32
		i	45 43
EUR		eP	00 44 36
HH		eP	00 44 44
May 10			
EUR		iP	01 37 23
HH		eP	01 36 51
May 10			
COL		iP	04 31 34
HH		eP	04 30 47
May 10			
EUR		eP	07 47 46
TUC		eP	07 46 11
May 10			
BH		iP	11 22 08
		iS	22 11
May 10			
COL		iP	15 01 45
May 10			
COL		iP	16 26 04
May 10			
COL		eP	19 10 34
EUR		iP	19 14 02
HH		eP	19 13 30
		e	13 46
		e	15 40
RC		eP	19 14 40
TUC		eP	19 15 03
May 10			
SLC		eP	21 13 15
May 10			
HONO		iP	23 51 52
May 11			
BOZ		eP	00 26 10
HH		iP	00 25 35
		eS	25 47
		iL	25 50
May 11			
COL		eP	00 46 00
		i	47 09
HH		iP	00 48 29
		i	48 46
		e	50 05
RC		eP	00 49 17
		e	51 13
May 11			
BOZ		eP	04 36 00
HH		iP	04 35 12
		e(S)	35 24
		iL	35 27
May 11			
BOZ		eP	07 14 40
COL		eP	07 11 18
HH		eP	07 14 15
		e	16 21
RC		eP	07 15 23
		e	15 34
TUC		eP	07 15 47
		i	15 59
May 11			
BOZ		iP	07 38 33
COL		iP	07 35 10
		iS	39 15
		i	39 49
		eL	41 58
COLU		iP	07 41 30
HH		iP	07 38 06
		e(S)	44 00
RC		iP	07 39 14
		e(S)	44 35
SLC		iP	07 38 52
SJ		iP	07 43 21
TUC		eP	07 39 38
May 11			
COL		eP	08 00 09
May 11			
COL		eP	10 17 17
May 11			
TUC		eP	15 00 28
May 11			
COL		eP	15 02 28
RC		eP	15 06 39
		e	06 45
May 11			
COL		eP	19 57 42
HH		iP	19 59 54
May 11			
RC		e(P)	21 42 53
May 11			
COL		eP	23 12 49

Date and Station		Phase (GCT)
		h m s
COL	i	23 13 04
	i	13 31
May 11		
HONO	iP	23 38 06
May 12		
COL	iP	00 29 27
May 12		
TUC	eP	01 29 42
May 12		
HH	e(P)	02 12 07
May 12		
COL	eP	02 29 55
	i	30 14
May 12		
COL	eP	03 01 19
May 12		
BH	iP	05 00 07
BOZ	eP'	05 06 52
BUT	iP'	05 06 53
	iPP	09 13
	i	09 34
COL	eP'	05 07 35
	iP'	07 46
	iP'	08 02
COLU	ePP	05 06 11
	e	08 26
	eSKS	12 17
	iS	12 34
	eSKKS	13 11
	eS	13 47
	ePPS	16 18
	eSS	20 40
	eL	33 23
HH	iP'	05 06 57
	iPKS	10 21
PHIL	e(P')	05 06 31
	i	12 55
RC	iP'	05 06 41
	e	19 29
SJ	iP	05 00 24
SIT	iP'	05 07 25
TUC	eP'	05 06 30
	eSKS	13 30
	ePP	17 28
	eL	44 25
May 12		
COL	iP	05 45 46
May 12		
BOZ	eP	06 59 06

Date and Station		Phase (GCT)
		h m s
BUT	eP	06 58 51
COL	iP	06 55 28
HH	eP	06 58 36
RC	eP	06 59 27
TUC	eP	07 00 05
May 12		
HH	eP	08 05 07
May 12		
COL	iP	09 20 43
May 12		
COL	eP	09 33 34
May 12		
HH	eP	11 14 05
May 12		
COL	iP	11 42 15
RC	e(P)	11 42 46
TUC	e(P)	11 41 42
May 12		
BH	iP'	11 49 17
BOZ	eP'	11 48 21
BUT	iP'	11 48 18
	ePP	50 38
	iPKS	51 40
	e(S)	58 28
COL	eP	11 43 12
	e	46 27
	iPP	47 31
	eSKKS	54 08
	eS	55 08
	iPKXP	59 17
	eSS	12 03 16
	eL	09 52
COLU	iP'	11 49 01
	i	50 49
	iPP	52 48
	e	53 38
	eL	12 28 51
HH	iP'	11 48 14
PHIL	eP'	11 49 32
	eSS	12 12 54
	eL	30 11
RC	eP'	11 48 29
	ePP	51 06
SLC	eP'	11 48 24
TUC	eP'	11 48 35
	ePP	51 17
	e	52 19
	eSKS	55 19

Date and Station		Phase (GCT)
		h m s
May 12		
COL	eP	13 14 49
	i	15 02
HH	eP	13 13 58
May 12		
BH	iP	17 05 41
	iS	06 06
May 12		
COL	eP	19 54 26
May 12		
HH	eP	20 36 59
May 12		
EUR	eP	22 11 06
TUC	eP	22 11 03
May 12		
COL	iP	23 41 55
EUR	eP	23 41 23
HH	eP	23 41 55
RC	eP	23 42 22
SLC	eP	23 41 41
TUC	eP	23 41 23
May 13		
HH	eP	00 08 41
May 13		
COL	eP	00 26 12
May 13		
COL	eP	00 40 03
May 13		
COL	eP	00 49 31
May 13		
HH	eP	02 03 23
May 13		
COL	eP	02 09 52
May 13		
COL	eP	02 11 38
May 13		
BH	iP'	02 40 22
BOZ	eP	02 31 54
BUT	iP	02 31 49
COL	iP	02 28 52
HH	iP	02 31 36
RC	iP	02 32 24
TUC	iP	02 32 50

Date and Station		Phase (GCT)
		h m s
May 13		
COL	eP	03 19 32
May 13		
COL	eP	04 52 47
May 13		
COL	eP	05 29 45
May 13		
HH	eP	05 59 25
May 13		
HH	eP	06 47 11
May 13		
HH	eP	09 50 08
May 13		
COL	eP	10 48 11
EUR	eP	10 51 45
May 13		
EUR	eP	11 29 14
TUC	iP	11 29 20
May 13		
COL	eP	13 29 04
May 13		
COLU	iP	14 25 28
	iS	25 52
	iL	25 55
May 13		
COL	iP	14 57 14
	i	58 13
May 13		
COL	eP	15 04 34
May 13		
COL	iP	15 28 28
	ePP	30 38
EUR	iP	15 31 12
	i	31 32
HH	iP	15 30 51
RC	eP	15 31 35
SLC	eP	15 31 22
May 13		
COL	eP	15 47 26
EUR	iP	15 50 49
HH	eP	15 50 19
May 13		
BH	iP	16 41 55
	iS	42 18

Date and Station		Phase (GCT) h m s
May 13 COL	eP	17 01 00
May 13 COL	eP	19 19 01
HH	eP	19 21 57
RC	eP	19 23 06
May 13 COL	eP	21 46 47
	i	47 15
May 13 BUT	eP	23 41 56
May 14 COL	eP	00 22 38
May 14 COL	eP	00 44 56
May 14 HH	eP	02 10 20
TUC	eP	02 09 30
May 14 COL	eP	03 10 53
HH	eP	03 10 23
May 14 HH	eP	04 13 48
May 14 COL	iP	05 24 19
HH	iP	05 27 30
RC	eP	05 28 35
TUC	iP	05 29 04
May 14 TUC	eP	06 57 12
May 14 BOZ	e(P)	10 44 30
	i	44 35
HH	iP	10 43 57
	eS	44 14
	eL	44 17
RC	eP	10 45 56
May 14 COL	eP	11 12 53
TUC	eP	11 17 23
	e	17 39
May 14 HH	eP	14 52 36
RC	eP	14 53 31

Date and Station		Phase (GCT) h m s
May 14 COL	eP	15 12 45
May 14 COL	eP	18 27 52
HH	eP	18 30 48
	e	31 19
RC	eP	18 31 57
May 14 BOZ	iP	18 51 13
COL	eP	18 47 51
HH	iP	18 50 47
RC	iP	18 51 57
SLC	eP	18 51 31
May 14 HH	eP	19 53 18
May 15 HONO	iP	01 18 04
May 15 COL	eP	01 31 47
	iP	32 03
May 15 COL	eP	01 47 35
COLU	eP	01 54 15
HH	iP	01 50 32
RC	eP	01 51 46
TUC	e(P)	01 52 03
May 15 BC	iP	02 16 50
	i	17 05
BOZ	iP	02 17 29
BUT	iP	02 17 36
	isP	18 15
COL	eP	02 21 03
	ipP	21 32
	isP	21 43
COLU	iP	02 15 39
	iPP	16 07
	iS	19 26
HH	iP	02 17 57
	ePcP	20 21
PHIL	e(PP)	02 17 32
	eL	22 50
RC	iP	02 16 55
	esP	17 33

Date and Station		Phase (GCT) h m s
SLC	iP	02 16 57
	ipP	17 22
SJ	iP	02 16 32
	iPcP	19 55
TUC	iP	02 15 54
	i	16 20
	iPP	16 30
	eS	20 08
	eL	23 36
May 15 HH	eP	10 40 57
May 15 SLC	iP	15 34 35
May 15 COL	eP	17 23 13
May 15 COL	eP	18 09 41
May 15 HH	eP	19 38 21
May 15 SLC	eP	21 44 44
May 16 COL	eP	01 24 08
May 16 COL	eP	03 20 03
HH	eP	03 23 00
RC	eP	03 24 09
TUC	eP	03 24 31
May 16 TUC	eP	03 47 25
May 16 COL	eP	04 26 30
HH	eP	04 29 30
RC	eP	04 30 29
May 16 HH	eP	05 45 36
TUC	eP	05 47 07
May 16 HH	eP	06 53 37
	e	53 46
RC	eP	06 52 52
May 16 COL	eP	08 18 30
HH	iP	08 21 27
	i	21 36
	e	27 25

Date and Station		Phase (GCT) h m s
RC	eP	08 22 37
TUC	eP	08 22 57
May 16 COL	iP	08 30 01
May 16 COL	eP	09 33 19
HH	eP	09 31 27
RC	iP	09 33 20
TUC	e(P)	09 33 56
May 16 BC	iP	15 06 27
HH	e(P)	15 08 00
RC	iP	15 06 33
	i	07 07
SLC	iP	15 06 38
SJ	iP	15 02 54
	e(pP)	03 39
TUC	eP	15 05 58
	epP	06 33
May 16 BOZ	eP	15 21 58
May 16 COL	iP	17 49 18
	i	49 55
May 16 BH	iP	17 57 11
May 16 COL	eP	21 27 55
	e	28 19
May 16 COL	eP	22 51 23
May 16 HH	eP	23 09 45
May 17 HONO	iP	02 18 50
May 17 BOZ	eP	02 54 42
COL	iP	02 54 35
	ipP	54 52
EUR	iP	02 54 10
HH	iP	02 54 39
	ePP	58 05
RC	iP	02 55 03

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Date and Station		Phase (GCT) h m s
TUC	iP	02 54 10
	e	55 20
May 17		
COL	eP	03 44 08
May 17		
EUR	eP	04 47 33
HH	eP	04 47 04
RC	eP	04 48 13
TUC	eP	04 48 40
May 17		
EUR	eP	05 41 23
	iP	41 26
	iS	41 53
	iL	42 01
TUC	e(P)	05 45 23
May 17		
COL	iP	05 59 32
EUR	eP	06 03 05
HH	eP	06 02 29
	e	05 13
RC	eP	06 03 41
TUC	eP	06 04 13
May 17		
COL	eP	08 05 34
May 17		
COL	eP	12 10 02
EUR	eP	12 13 16
HH	eP	12 12 49
May 17		
BOZ	iP	17 41 34
BUT	iP	17 41 21
	iS	41 27
FELT AT BUTTE, MONTANA		
HH	iP	17 42 02
	eS	42 32
	eL	42 37
	iL	42 44
RC	eP	17 43 24
	e	44 35
May 17		
BH	iP	17 50 17
	iS	51 25
May 17		
COL	eP	19 33 03

Date and Station		Phase (GCT) h m s
May 17		
COL	eP	20 52 30
COLU	iP	20 49 01
	iS	53 48
	eL	55 54
HH	eP	20 49 11
	e	53 29
RC	eP	20 48 33
SLC	eP	20 48 01
TUC	eP	20 46 15
	i	48 12
	eS	48 56
	eL	49 11
UK	eP	20 48 38
	e	49 04
May 17		
EUR	iP	23 11 06
HH	eP	23 10 36
	e	10 56
May 17		
COL	eP	23 35 52
HH	eP	23 38 45
SLC	eP	23 36 24
May 18		
HH	iP	00 32 04
	eS	32 18
	eL	32 20
May 18		
BOZ	iP	02 47 16
COL	iP	02 43 52
COLU	eP	02 50 16
EUR	iP	02 47 20
HH	iP	02 46 50
	e	46 58
	e	49 10
RC	eP	02 47 59
TUC	eP	02 48 22
May 18		
COL	eP	03 18 21
May 18		
BH	iP	05 36 36
	iS	47 01
BC	iP	05 32 03
BOZ	iP	05 31 36
BUT	iP	05 31 26

Date and Station		Phase (GCT) h m s
COL	iP	05 28 17
	i	29 33
	iS	31 43
	iPcP	32 25
	iL	33 23
COLU	iP	05 34 43
	iPcP	35 04
	eS	43 18
	eScS	44 51
	eL	50 34
EUR	iP	05 31 39
HH	iP	05 31 11
	ePcP	33 36
RC	iP	05 32 21
	i	32 45
	i	33 01
	ePPP	34 53
SLC	iP	05 31 54
SJ	iP	05 36 40
TUC	iP	05 32 42
	ePcP	34 11
	i	34 32
	eL	43 30
UK	eP	05 31 05
WASH	iP	05 34 36
	eL	56 32
May 18		
EUR	eP	05 58 59
	e	06 03 32
HH	eP	05 58 28
	e	06 04 40
TUC	eP	06 00 04
May 18		
EUR	iP	07 50 36
May 18		
EUR	iP	10 08 02
May 18		
BOZ	eP	13 25 47
May 18		
COL	iP	13 45 15
	ipP	46 08
May 18		
COL	eP	14 55 07
May 18		
BOZ	eP	16 29 32
COL	iP	16 27 22
May 18		
COL	eP	18 38 32

Date and Station		Phase (GCT) h m s
EUR	eP	18 42 04
May 18		
BUT	iP	21 58 50
FELT AT BUTTE, MONTANA		
HH	eP	21 59 37
	eS	22 00 13
	eL	00 17
May 18		
EUR	iP	23 20 32
May 19		
RC	eP	02 40 54
May 19		
HH	eP	03 21 17
TUC	eP	03 22 49
May 19		
COL	eP	03 32 36
HH	iP	03 33 20
RC	eP	03 33 16
May 19		
COL	eP	04 29 03
May 19		
EUR	iP	05 23 23
May 19		
COL	ep	05 32 54
COLU	iP	05 28 09
HH	eP	05 27 04
	e	30 47
EUR	iP	05 30 10
	i	30 23
RC	eP	05 29 57
SJ	eP	05 26 11
TUC	iP	05 29 15
May 19		
EUR	eP	05 38 21
May 19		
BH	eP	07 23 03
	eS	30 45
BOZ	eP	07 26 18
COL	eP	07 29 10
COLU	iP	07 25 25
	ePP	27 01
	eS	31 51
	iS	31 55
	eScS	35 28
	eL	36 47

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Date and Station		Phase	(GCT)
			h m s
EUR	iP		07 25 39
	i		27 27
HH	iP		07 26 40
RC	iP		07 26 02
SLC	iP		07 25 43
SJ	iP		07 25 22
TUC	iP		07 24 32
	e(S)		30 27
	eL		35 38
WASH	eP		07 26 12
	eL		42 51
May 19			
HH	eP		08 18 09
May 19			
HH	eP		10 05 30
May 19			
EUR	iP		10 54 03
May 19			
COL	eP		17 00 21
	i		00 28
EUR	eP		17 04 03
RC	eP		17 04 43
May 19			
EUR	e(P)		19 58 51
May 19			
EUR	iP		20 52 25
May 19			
BUT	iP		20 58 16
	i		58 30
COL	eP		20 55 54
	ePP		58 08
EUR	iP		20 58 25
	i		59 26
	ePP		21 01 28
HH	eP		20 58 05
RC	eP		21 02 22
May 19			
BH	iP		21 02 31
	iS		04 55
BOZ	iP		21 07 58
May 19			
BH	iP		22 44 58
BUT	iP		21 08 06
	iPcP		10 11
	e(S)		13 43
	eL		21 32

Date and Station		Phase	(GCT)
			h m s
CHI	e(P)		21 07 19
COL	eP		21 11 20
	epP		11 50
COLU	iP		21 05 33
	e(PP)		06 28
	i		08 14
	eS		09 28
	eL		10 50
EUR	iP		21 07 44
HH	e(P)		21 08 24
	ePP		10 18
	eScP		14 10
	eScS		18 27
PHIL	e(P)		21 07 52
	eL		13 42
RC	iP		21 07 21
SLC	iP		21 07 32
	i		07 50
SJ	eP		21 05 18
	i		05 41
TUC	eP		21 06 41
	iL		21 20
WASH	iP		21 06 26
	ipP		06 41
	iPP		07 09
	e		08 17
	iS		11 19
	eL		13 53
May 19			
COL	eP		22 53 45
	i		54 03
	ipP		54 24
COLU	eP		22 48 40
	ipP		49 12
HH	eP		22 51 33
RC	eP		22 50 39
	epP		51 27
SJ	eP		22 46 32
TUC	eP		22 50 04
May 19			
COL	eP		23 04 03
May 20			
BC	eP		01 59 36
BOZ	eP		01 59 12
BUT	iP		01 59 03
	e(PcP)		02 00 10
	iS		05 27
	i		07 06
	eL		09 07

Date and Station		Phase	(GCT)
			h m s
COL	iP		01 55 49
	i		55 54
	iPP		56 00
	iS		59 55
	iL		02 01 32
COLU	iP		02 02 08
	iS		11 15
	iScS		12 14
	eSS		15 53
	eL		18 32
EUR	iP		01 59 15
HH	eP		01 58 46
	eS		02 05 08
PHIL	eP		02 12 03
	eL		25 36
RC	iP		01 59 54
SLC	eP		01 59 30
SIT	e(P)		01 57 01
	e(S)		02 01 51
	eL		03 18
TUC	iP		02 00 16
	eL		14 04
WASH	eP		02 02 19
	eL		25 03
May 20			
HH	eP		03 33 38
May 20			
COL	eP		03 46 06
EUR	iP		03 49 41
HH	e(P)		03 51 41
RC	eP		03 50 21
	e		50 33
May 20			
COL	eP		06 49 47
COLU	eP		06 44 03
EUR	eP		06 46 12
RC	eP		06 45 49
SLC	eP		06 45 58
TUC	eP		06 45 05
May 20			
COL	eP		11 56 02
May 20			
EUR	iP		14 49 00
RC	eP		14 48 47

Date and Station		Phase	(GCT)
			h m s
TUC	eP		15 06 53
	e		07 02
May 20			
EUR	iP		16 50 44
May 20			
BH	iP		18 35 05
COL	eP		18 27 23
May 20			
COL	eP		20 09 23
COLU	iP		20 09 07
RC	eP		20 09 47
May 20			
COLU	iP		21 28 31
RC	eP		21 30 04
May 20			
BH	iP		21 35 08
	iS		40 24
COL	eP		21 45 03
RC	iP		21 40 55
May 21			
BH	iP		01 30 56
BC	iP		01 24 33D
	ipP		24 53
	iS		34 48
	eL		37 16
BOZ	iP		01 24 26C
	ipP		24 53
	iS		34 36
	eL		48 32
BUT	iP		01 24 20
	i		25 47
	iPPP		30 05
	iS		34 27
	isS		34 43
	iPS		35 15
	isPS		36 01
	eL		44 16
CHI	ePP		01 29 32
	iSKS		35 40
	iSKKS		36 20
	i		36 32
	iS		36 44
	isS		37 32
	eSP		38 16
	eSS		44 00
	eSSS		47 07
	e		50 30
	eL		52 14
COL	iP		01 22 07D
	ipP		22 32
	ePP		24 36
	ePPP		25 41

Date and Station		Phase (GCT) h m s
COL	iS	01 30 15
	iScS	31 46
	eSS	34 30
	eL	36 56
COLU	eP'	01 29 56
	ePP	30 26
	ipPP	30 52
	isPP	31 11
	iPPP	33 13
	iSKS	36 47
	eS	37 29
	iS	37 35
	ipS	38 22
	iSPP	40 21
	iPPS	40 57
	eL	53 26
EUR	iP	01 24 22D
	iPP	27 29
	ipPP	28 05
	iS	34 29
	iPS	35 27
	ePKKP	43 03
	iP'P'	50 29
	iSKPP'	53 42
	eP'P'P'	02 11 08
HONO	iP	01 21 14D
	i(pP)	21 51
PHIL	e	01 31 49
	iSKS	36 43
	i(SKKS)	37 32
	iSP	40 11
	e	42 35
	e(SS)	46 33
	eL	02 00 26
RC	iP	01 24 53C
	i(pP)	25 31
	iSKS	35 11
	iS	35 35
	ipS	36 01
	isS	36 22
	ePS	36 47
	iPKKP	42 23
	eP'P'	50 21
	eL	51 47
	eSKPP'	53 31
SLC	iP	01 24 34C
	i(S)	34 07
	eL	48 54
SJ	iP'	01 31 03C
	epP	31 32
	iPP	33 14
	ipPP	33 47
	iPKS	34 14
	i	35 01
	e(SP)	43 54
SIT	iP	01 22 45D
	ipP	23 07
	e	23 38
	iPP	25 12
	ipPP	25 32
	iS	31 28

Date and Station		Phase (GCT) h m s
SIT	isS	01 32 15
	i(ScS)	32 34
	i	33 20
	eSS	36 02
	esSS	36 43
	eSSS	39 30
	eL	40 40
TUC	iP	01 24 56D
	ipP	25 22
	iPP	28 30
	ipPP	28 52
	iS	35 18
	i(sS)	35 42
	iPS	36 47
	eL	52 42
UK	iP	01 23 55D
	ipP	24 21
	iS	33 42
	esS	34 17
	ePS	34 30
	eL	47 18
WASH	iPP	01 30 47
	ipPP	31 07
	ePPP	33 13
	iSP	39 56
	eL	52 23
May 21		
COLU	iP	01 41 26
May 21		
COL	eP	01 50 51
May 21		
COL	iP	02 00 39
May 21		
RC	eP	03 36 57
	e	37 08
TUC	eP	03 37 20
May 21		
COL	iP	07 06 29
	i(S)	07 15
May 21		
COL	iP	07 57 32
EUR	iP	08 01 18
RC	eP	08 01 36
	e	01 48
TUC	eP	08 01 59
May 21		
COL	iP	09 19 06
BC	eP	11 48 10
BOZ	eP	11 47 51
BUT	iP	11 47 45

Date and Station		Phase (GCT) h m s
COL	iP	11 45 00
	eS	52 06
	eL	12 03 48
EUR	iP	11 47 56
	i	48 07
	i	48 13
RC	eP	11 48 20
	i	48 32
SLC	eP	11 48 16
TUC	eP	11 48 37
	e	51 29
May 21		
BOZ	eP	11 56 33
COL	iP	11 55 55
COLU	iP	11 55 39
EUR	eP	11 57 08
RC	eP	11 56 18
May 21		
COL	iP	13 01 08
May 21		
BUT	iP	13 37 02
COL	iP	13 36 06
RC	iP	13 36 49
May 21		
BOZ	eP	15 08 47
COL	eP	15 05 13
	i	05 21
	eL	09 31
EUR	iP	15 08 54
RC	iP	15 09 35
May 21		
BC	eP	16 24 59
BOZ	eP	16 24 31
COL	eP	16 21 08
EUR	iP	16 24 36
	i	25 56
RC	eP	16 25 15
May 21		
BOZ	eP	19 17 32
COL	eP	19 14 07
HH	eP	19 17 04
	e	19 36
RC	eP	19 18 17

Date and Station		Phase (GCT) h m s
TUC	eP	19 18 39
May 21		
HH	eP	21 39 14
May 21		
HH	e(P)	22 40 34
	e	41 24
May 22		
COL	eP	00 45 00
HH	eP	00 47 56
May 22		
EUR	iP	01 33 02
HH	eP	01 32 41
May 22		
COL	eP	03 50 25
May 22		
COL	iP	10 33 30
HH	iP	10 35 15
May 22		
HH	eP	11 05 38
	e	05 47
May 22		
COL	eP	11 39 56
HH	eP	11 43 03
	e	45 03
May 22		
BOZ	iP	12 46 55
BUT	iP	12 47 02
HH	eP	12 47 53
	e	48 49
	e	49 13
RC	eP	12 48 03
May 22		
BH	iP	13 42 36
	iS	53 07
BC	iP	13 38 12
	ePcP	39 48
	eS	45 07
	eL	48 02
BOZ	iP	13 37 47
	eS	44 15
	eL	47 35
BUT	iP	13 37 43
	i	38 17
	iPP	39 38
	ePPP	40 03
	i	43 34
	iS	44 00
	iL	47 15

Date and Station		Phase	(GCT)
			h m s
COL		eP	13 34 34
		iP	34 36
		iS	38 26
		iL	38 58
COLU		iP	13 40 47
		eS	49 54
		eSS	54 16
		eL	57 31
EUR		iP	13 37 51
HONO		iP	13 36 14
		eS	41 38
		eL	43 14
T_S=11.0 sec. A=01.0 mm.			
T_L=14.0 sec. A=05.0 mm.			
HH		iP	13 37 22
		ePcP	39 30
		eS	43 48
		e	44 44
		iL	46 44
		eP'P'	14 09 19
PHIL		e	13 41 29
		iS	49 38
		eSS	54 21
		eL	14 00 23
RC		iP	13 38 30
		i	38 34
		ePcP	39 59
		ePP	40 54
		eS	45 53
		eL	49 40
SLC		iP	13 38 05
		eS	44 48
		eL	48 01
SJ		eP	13 42 19
		iP	42 20
SIT		iP	13 35 16
		eS	39 46
		iS	39 58
		iL	41 00
TUC		iP	13 38 50
		eL	54 06
UK		iP	13 37 17
		eS	43 24
		eL	46 31
WASH		eP	13 40 33
		e(S)	49 50
		eL	59 01
May 22			
COL		eP	17 28 51
HH		eP	17 30 36
May 22			
COL		iP	17 56 03

Date and Station		Phase	(GCT)
			h m s
May 22			
TUC		e(P)	18 32 06
May 22			
COL		eP	18 39 46
HH		eP	18 41 31
		e	41 38
RC		eP	18 41 48
May 22			
COL		eP	18 59 16
May 22			
COL		eP	19 05 47
May 22			
COL		eP	19 14 30
May 22			
COL		eP	20 17 30
HH		eP	20 20 15
May 23			
COL		eP	01 29 48
May 23			
COL		e(P)	02 02 40
May 23			
COL		iP	04 26 54
May 23			
HH		e(P)	07 44 30
May 23			
HH		eP	08 42 32
		e	44 42
May 23			
EUR		iP	08 56 19
TUC		eP	08 57 19
May 23			
TUC		eP	09 36 33
		e	36 38
May 23			
COL		iP	12 07 37
May 23			
COL		iP	13 46 09
TUC		eP	13 50 16
		e	50 38
May 23			
HH		eP	15 00 30
May 23			
COL		iP	16 03 14
EUR		iP	16 03 23
May 23			
EUR		i(P)	19 12 09

Date and Station		Phase	(GCT)
			h m s
EUR		i	19 12 41
May 23			
COL		eP	20 49 41
May 23			
COL		e(P)	21 10 30
HH		eP	21 05 27
		i	05 53
May 23			
COL		eP	23 24 10
HH		eP	23 26 20
May 24			
BH		iP	02 39 15
		iS	40 19
BOZ		iPcP	02 46 50
		i	48 07
		iS	54 04
		eScS	03 06 04
BUT		iP	02 46 57
		iPP	49 04
		i(PPP)	50 32
		eS	54 12
		iS	54 16
		iScS	56 35
		eSS	58 39
		eL	59 08
CHI		eP	02 45 17
		iS	50 57
		eL	53 53
COL		iP	02 49 46
		iS	59 37
		eSS	03 04 39
		eL	09 27
COLU		iP	02 43 58
		i	44 12
		i	44 38
		iS	48 52
		eL	49 54
EUR		iP	02 46 42
		iPPP	49 32
		i	51 52
		i	52 18
		iS	54 32
		iP'P'	03 17 19
HONO		iP	02 49 57
HH		iP	02 47 14
		iS	54 50
		iScS	56 54
PHIL		eP	02 44 51
		eS	50 13
		iS	50 26
		iL	53 08
RC		iP	02 46 07
		e	46 17

Date and Station		Phase	(GCT)
			h m s
RC		i	02 46 35
		iS	52 50
		iScS	55 55
		eP'P'	03 17 11
SLC		iP	02 46 28
		iS	53 27
		iScS	56 03
		eL	03 04 19
SJ		eP	02 41 52
		iP	41 54
		i	42 18
		i(S)	45 23
		iL	45 44
		iScS	53 40
SIT		iP	02 48 58
		i	49 10
		i	49 35
		iS	58 07
		i	58 51
		eSS	03 02 36
		eL	11 35
TUC		iP	02 45 43
		e(PcP)	46 51
		iS	52 05
		eL	55 34
WASH		iP	02 44 42
		eP	45 02
		iPcP	46 06
		iS	50 12
		eL	51 44
May 24			
HH		e(P)	03 16 04
		e	17 44
UK		iP	03 02 18
		e	02 33
May 24			
BOZ		iP	03 43 41
		e	44 27
BUT		iP	03 43 42
		ePP	44 56
		ePPP	45 32
		iS	49 06
		e	50 11
		eL	51 38
COL		iP	03 40 14
		iS	43 06
		iL	43 16
COLU		iP	03 46 53
EUR		iP	03 43 48
		iS	49 50
HH		iP	03 43 16
		e(S)	49 38
		iL	53 36
PHIL		eS	03 55 03

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Date and Station		Phase (GCT) h m s
PHIL	eL	04 07 26
RC	iP	03 44 28
SLC	iP	03 44 02
SJ	iP	03 48 56
	i	49 08
SIT	iP	03 40 56
	eS	44 22
	iS	44 27
	eL	45 24
TUC	iP	03 44 53
	e	45 10
	eS	51 34
	iL	55 18
UK	iP	03 43 13
	e	43 30
WASH	eP	03 46 56
	i	47 03
	eL	04 05 12
May 24		
COL	eP	05 55 20
TUC	eP	05 52 21
May 24		
COL	eP	07 03 54
EUR	eP	07 06 49
HH	eP	07 06 27
	i	06 37
RC	eP	07 07 25
May 24		
TUC	eP	08 20 49
May 24		
HH	eP	09 01 22
May 24		
BOZ	eP	10 20 18
	e	20 32
COL	iP	10 18 13
EUR	iP	10 20 11
	ipP	20 34
HH	eP	10 20 04
	e(pP)	20 24
	ePP	23 16
RC	iP	10 20 45
SLC	eP	10 20 24
TUC	eP	10 20 42
May 24		
COL	eP	12 14 27

Date and Station		Phase (GCT) h m s
May 24		
BOZ	iP	13 01 42
COL	iP	13 01 38
EUR	iP	13 01 07
	i	04 30
HH	iP	13 01 39
RC	eP	13 02 18
SLC	eP	13 01 25
TUC	eP	13 01 07
May 24		
COL	eP	14 53 33
May 24		
COL	iP	15 24 10
HH	eP	15 27 13
May 24		
COL	e(P)	17 00 50
May 24		
COL	iP	17 20 04
HH	eP	17 22 45
	e	23 08
May 24		
COL	e(P)	18 20 17
HH	eP	18 23 38
May 24		
HH	e(P)	20 57 36
RC	eP	20 56 04
	e	56 33
May 24		
RC	e(P)	22 07 38
May 25		
EUR	eP	00 40 29
RC	eP	00 41 01
May 25		
COL	iP	01 25 54
May 25		
EUR	eP	05 52 39
HH	eP	05 51 34
May 25		
BUT	iP	07 31 04
FELT: MELROSE, MONT.		
HH	eP	07 31 44
	e	31 50
	eS	32 16
	eL	32 20

Date and Station		Phase (GCT) h m s
HH	iL	07 32 26
RC	eP	07 33 08
May 25		
COL	eP	08 03 52
HH	eP	08 06 47
May 25		
BOZ	eP	08 19 43
COL	iP	08 16 23
EUR	iP	08 19 50
HH	eP	08 19 19
RC	eP	08 20 28
May 25		
HH	eP	08 59 15
May 25		
TUC	eP	09 50 36
May 25		
EUR	iP	11 49 39
May 25		
BUT	iP	12 57 49
FELT: MELROSE, MONT.		
HH	e(P)	12 58 35
	iS	59 12
	eL	59 15
May 25		
COL	eP	13 45 33
May 25		
BH	i	14 33 41
	i	34 22
BC	e(P)	14 35 31
BOZ	eP	14 35 57
COLU	iP	14 33 39
EUR	iP	14 35 49
HH	iP	14 36 14
	e	36 24
RC	eP	14 35 35
SLC	eP	14 35 42
SJ	iP	14 31 35
TUC	eP	14 35 02
May 25		
COL	iP	17 13 23
HH	eP	17 16 17

Date and Station		Phase (GCT) h m s
May 25		
HH	eP	18 11 45
May 25		
HH	eP	19 10 08
	i	10 20
	e	18 30
May 25		
COL	iP	20 10 57
	i	11 08
	i	11 19
May 25		
HH	eP	20 30 35
May 25		
COL	iP	21 26 55
May 25		
BC	eP	23 01 54
BOZ	eP	23 01 25
COLU	eP	22 59 11
	e	59 37
HH	eP	23 01 43
	e	02 11
TUC	iP	23 00 23
May 26		
HONO	iP	00 21 15
May 26		
COL	eP	04 20 56
	eS	24 03
	eL	24 29
COLU	eP	04 27 25
HH	eP	04 23 52
	e	24 27
	e	26 37
RC	eP	04 25 08
	ePP	27 05
TUC	eP	04 25 24
May 26		
BH	iP	06 47 23
	iSKS	57 53
BC	eP	06 47 09D
	e	47 49
	eS	58 44
	ePKKP	07 03 49
BOZ	iP	06 46 23C
	i	46 46
	ePP	49 57
	ePS	58 01
	eSS	07 06 41
	eL	09 21

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Date and Station		Phase	(GCT)
			h m s
BUT	iP		06 46 23D
	iPP		49 54
	ePPP		51 49
	iPPP		51 51
	eSKS		56 47
	iS		57 04
	iPS		57 59
	iSS		07 02 58
	iSSS		06 59
	iL		09 29
CHI	eP		06 45 51S,W
	eS		55 51
	eSS		07 01 27
	eSSS		04 21
	eL		06 39
COL	iP		06 45 15C
	i		46 10
	i		46 22
	iPP		48 04
	i		48 26
	iS		54 47
	iScS		55 30
	iL		07 04 28
	eP'P'		12 32
COLU	iP		06 45 59D
	i		47 09
	i		47 15
	i		47 35
	eS		56 14
	iS		56 17
	iSS		07 01 46
	eSSS		05 15
	eL		07 14
HH	iP		06 46 15D
	eS		56 32
	iScS		57 00
	ePS		57 21
	ePKKP		07 04 19
	eL		08 48
	eP'P'		12 26
PHIL	iP		06 45 26E
	iS		55 02
	iSS		07 00 08
	eL		03 21
RC	iP		06 46 15
	iS		56 47
	eSSS		07 06 07
	eL		08 57
SLC	eP		06 46 44C
	eS		57 03
	eL		07 11 00
SJ	iP		06 46 02D
	ePP		49 10
	e(PPP)		51 52
	eS		56 22
	iPPS		57 18
	eSS		07 02 09
	eL		08 12
SIT	iP		06 45 58D
	iPP		49 23
SIT	ePPP		06 51 16
	iS		56 05
	iScS		56 53
	ePPS		57 34
	eSS		07 01 42
	iL		07 11
TUC	eP		06 47 19D
	iPP		51 24
	iSKKS		58 04
	eS		58 06
	i(PS)		07 00 25
	ePPS		01 04
	eSS		05 28
	i(SSS)		10 48
	iL		13 19
UK	eP		06 47 15
	e		48 11
	e(PP)		51 25
	eL		07 03 12
WASH	iP		06 45 29
	i		45 38
	iPP		48 13
	iS		55 19
	eSS		07 00 43
	eL		08 07
May 26			
BH	iP		07 37 34
	iS		37 57
May 26			
BOZ	eP		09 07 38
COL	iP		09 06 28
	i		06 33
HH	iP		09 07 28
RC	eP		09 07 29
	i		07 33
May 26			
BOZ	eP		09 26 34
COL	iP		09 25 25
	e		26 13
	iPP		28 14
HH	iP		09 26 26
	e		29 15
RC	iP		09 26 27
	e		29 18
May 26			
COL	iP		09 46 38
May 26			
BC	eP		09 50 13
BOZ	iP		09 49 28
BUT	iP		09 49 27
COL	iP		09 48 16
	i		48 36
HH	eP		09 49 17
	i		49 21
	eS		59 57
RC	eP		09 49 17
	i		49 19
SLC	eP		09 49 49
TUC	eP		09 47 02
	e		47 07
May 26			
HH	eP		10 29 16
May 26			
BOZ	eP		13 02 05
BUT	iP		13 01 30
HH	e(P)		13 03 00
May 26			
COL	eP		14 14 36
May 26			
COL	eP		15 03 08
May 26			
COL	eP		15 13 38
May 26			
BC	iP		16 00 19
	i		00 27
BOZ	eP		16 02 46
EUR	iP		16 01 07
	i		01 29
HH	iP		16 03 15
	eL		07 38
RC	e(P)		16 03 13
	eL		07 30
SLC	eP		16 02 27
TUC	iP		16 00 38
	i		00 58
	iL		01 03
UK	eP		16 04 22
May 26			
COL	iP		16 06 28
May 26			
PHIL	eP		16 17 06
	e		19 45
WASH	eP		16 16 15
	e		18 59
May 26			
COL	iP		16 57 41
EUR	iP		17 01 01
HH	eP		17 01 32
TUC	eP		17 02 04
May 26			
COL	iP		17 45 36
May 26			
HH	e(P)		18 27 08
May 26			
COL	eP		18 54 57
HH	eP		18 57 51
	e		58 14
RC	eP		18 59 02
May 26			
HH	eP		20 36 04
May 26			
COL	iP		19 10 08
May 26			
TUC	e(P)		22 32 05
	e		33 45
May 27			
COL	eP		04 47 20
May 27			
COL	eP		06 32 08
HH	eP		06 33 08
May 27			
BOZ	eP		07 09 40
COL	iP		07 07 50
HH	eP		07 09 32
May 27			
BOZ	eP		07 17 54
COL	iP		07 16 49
HH	eP		07 17 46
	i		17 50
RC	eP		07 17 49
	e		17 53
May 27			
HH	eP		08 36 56
May 27			
TUC	eP		08 46 14
May 27			
BH	iP		10 56 46
	iL		58 21
BC	eP		11 03 22
BOZ	eP		11 04 00

Date and Station		Phase (GCT) h m s
COL	iP	11 07 05
EUR	eP	11 03 47
HH	eP	11 04 26
RC	eP	11 03 25
SLC	eP	11 03 35
TUC	eP	11 02 43
May 27		
BOZ	iP	11 14 19
BUT	iP	11 14 21
COL	iP	11 13 10
EUR	eP	11 14 57
HH	iP	11 14 11
RC	iP	11 14 11
SLC	eP	11 14 40
WASH	eP	11 13 22
May 27		
HH	eP	13 11 21
	e	13 42
TUC	eP	13 12 50
	e	12 58
May 27		
BC	eP	13 26 11
BOZ	eP	13 25 36
COL	eP	13 22 15
	iP	22 24
EUR	iP	13 25 45
HH	eP	13 25 11
	i	25 31
RC	eP	13 26 20
TUC	e(P)	13 27 07
May 27		
COL	iP	17 14 35
May 27		
COL	eP	19 29 51
HH	eP	19 32 10
May 27		
BC	eP	20 05 51
COL	eP	20 02 00
EUR	iP	20 05 27

Date and Station		Phase (GCT) h m s
HH	eP	20 04 57
	e	05 00
	ePcP	07 25
RC	eP	20 06 17
May 27		
COL	eP	22 42 55
	epP	43 26
HH	eP	22 44 45
May 27		
HH	eP	23 25 08
May 28		
BOZ	eP	00 22 37
COL	eP	00 21 27
HH	eP	00 22 39
RC	eP	00 22 29
May 28		
BC	eP	00 30 49
BOZ	eP	00 31 30
COL	iP	00 31 25
EUR	iP	00 30 57
HH	eP	00 31 28
RC	eP	00 31 51
SLC	eP	00 31 14
TUC	eP	00 30 55
May 28		
BC	eP	01 27 10
BOZ	eP	01 26 42
COL	iP	01 23 15
	eS	26 28
	eL	26 59
EUR	iP	01 26 47
HH	iP	01 26 16
RC	eP	01 27 30
SLC	eP	01 27 01
May 28		
BUT	iP	01 31 26
COL	iP	01 29 17
EUR	eP	01 32 47
May 28		
COL	iP	03 51 42
	epP	52 33

Date and Station		Phase (GCT) h m s
EUR	eP	03 51 15
TUC	eP	03 51 14
May 28		
HH	eP	05 46 27
May 28		
COL	iP	06 03 28
	eS	13 13
	e	18 12
	eL	21 12
EUR	iP	06 05 11
HH	eP	06 05 28
RC	e(P)	06 05 58
	eP'	10 00
	e	10 56
TUC	eP	06 05 04
May 28		
BC	eP	06 10 37
BOZ	eP	06 10 03
SLC	eP	06 10 32
TUC	eP	06 10 18
May 28		
COL	eP	06 33 07
May 28		
COL	eP	08 16 38
May 28		
SLC	eP	08 33 07
May 28		
SLC	eP	09 30 23
May 28		
COL	eP	10 02 51
EUR	iP	10 06 24
RC	eP	10 06 51
May 28		
BC	iP	11 55 27
	i	55 48
EUR	iP	11 55 42
	iS	56 07
May 28		
COL	eP	15 50 18
May 28		
HH	eP	18 54 34
	e	54 44
RC	eP	18 55 52

Date and Station		Phase (GCT) h m s
May 28		
HH	eP	19 24 10
May 28		
SLC	iP	22 56 03
May 28		
BC	eP	23 32 05
COL	eP	23 31 53
	e	32 56
HH	eP	23 33 30
TUC	iP	23 32 15
	e	33 22
May 28		
COL	eP	23 57 28
May 29		
RC	e(P)	01 12 00
May 29		
HH	eP	01 23 00
RC	eP	01 22 13
May 29		
HH	e(P)	02 29 23
May 29		
COL	eP	02 43 45
May 29		
BH	eP	07 33 42
	iS	39 43
BC	eP	07 35 02
COL	iP	07 38 33
HH	eP	07 36 28
	eS	45 18
	eL	51 51
RC	eP	07 36 04
	e	36 10
	eS	44 36
SLC	eP	07 35 38
TUC	eP	07 34 31
	eL	46 54
May 29		
TUC	e(P)	07 49 50
May 29		
HH	eP	08 09 43
RC	eP	08 10 01
	e	10 18
May 29		
COL	iP	08 29 05
HH	iP	08 26 32

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Date and Station		Phase	(GCT) h m s
May 29			
SLC		eP	08 34 59
May 29			
COL		eP	08 58 30
HH		eP	09 00 33
RC		eP	09 00 37
May 29			
HH		eP	09 36 57
		e	38 08
May 29			
COL		iP	10 14 44
May 29			
BC		eP	10 20 47
COL		iP	10 17 49
HH		iP	10 20 14
RC		eP	10 20 59
SLC		eP	10 20 44
May 29			
COL		iP	10 29 24
HH		iP	10 30 27
RC		eP	10 30 26
May 29			
HH		eP	14 37 24
		iL	37 50
May 29			
COL		iP	18 51 08
EUR		eP	18 52 36
HH		iP	18 51 57
		ePP	55 20
RC		eP	18 51 52
		e	52 20
May 29			
BH		iP	22 34 04
		i	35 47
COL		iP	20 32 02
May 29			
COL		iP	21 40 37
EUR		iP	21 42 50
HH		iP	21 42 41
		i	42 45
		e	45 48
RC		eP	21 43 23
		e	44 09
May 29			
EUR		iP	22 09 05
RC		eP	22 08 50
May 29			
COL		eP	22 26 46
EUR		iP	22 30 02
HH		eP	22 29 34
RC		eP	22 30 24
May 29			
HH		eP	22 41 14
May 30			
BC		eP	00 31 05
COL		eP	00 31 42
		eS	42 23
		eSS	48 20
		eL	57 12
EUR		eP	00 31 10
		iP	31 13
HH		eP	00 31 44
RC		e(P)	00 32 04
SLC		eP	00 31 28
TUC		eP	00 31 09
		i	31 35
		iS	41 18
		eL	56 07
May 30			
COL		iP	03 40 54
May 30			
COL		iP	04 07 11
May 30			
RC		eP	07 43 55
May 30			
COL		iP	08 51 30
May 30			
EUR		eP	09 13 52
		e	14 22
May 30			
COL		iP	09 49 13
May 30			
BC		eP	10 49 41
EUR		iP	10 48 49
		i	48 51
		i	49 15
SLC		eP	10 49 55
TUC		e(P)	10 51 16
UK		eP	10 49 40
		e	50 38
May 30			
COL		eP	13 19 38
May 30			
COL		iP	13 34 25
May 30			
EUR		eP	15 30 53
May 30			
BUT		eP	17 30 39
COL		iP	17 34 08
EUR		eP	17 30 03
RC		eP	17 30 04
		e	30 20
TUC		iP	17 28 40
		i	28 53
		iS	34 44
May 30			
COL		iP	18 05 59
EUR		iP	18 09 28
HH		eP	18 08 58
RC		iP	18 10 06
May 30			
BUT		eP	18 28 57
		e	29 28
		ipP	30 36
COL		eP	18 27 07
EUR		eP	18 28 52
HH		eP	18 28 47
May 30			
BC		eP	19 53 08
BUT		eP	19 53 44
COL		iP	19 53 47
		i	54 00
EUR		iP	19 53 15
HH		e(P)	19 53 46
RC		eP	19 54 11
SLC		eP	19 53 32
TUC		eP	19 53 12
UK		eP	19 52 54
May 30			
BC		eP	20 01 12
BUT		iP	20 00 42
COL		iP	19 57 44
		i	57 56
EUR		iP	20 00 56
HH		eP	20 00 29
RC		iP	20 01 18
TUC		eP	20 01 40
UK		eP	20 00 30
May 30			
BC		eP	21 09 50
BUT		epP	21 12 30
COL		iP	21 10 15
		ipP	12 23
EUR		iP	21 09 56
		ipP	12 02
HH		epP	21 12 32
RC		epP	21 12 54
TUC		iP	21 09 55
		epP	12 03
UK		eP	21 09 32
May 30			
BC		eP	21 35 25
COL		eP	21 31 15
		i	35 11
EUR		iP	21 34 52
RC		eP	21 35 30
May 30			
EUR		iP	21 38 40
TUC		eP	21 36 06
May 30			
BC		eP	23 09 29
COL		iP	23 10 09
EUR		iP	23 09 36
RC		eP	23 10 38
TUC		e(P)	23 09 38
UK		eP	23 09 11
May 31			
EUR		eP	01 15 09
HH		eP	01 15 05

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Date and Station		Phase (GCT)
		h m s
TUC	eP	01 14 46
May 31		
BH	iP	02 22 14
	iS	27 36
May 31		
BC	iP	02 27 41
	e	29 43
	ePP	30 41
	eS	36 59
BOZ	iP	02 28 05
	e	28 35
BUT	iP	02 28 11
	ipP	30 16
	isP	31 13
	ePP	31 45
	ePPP	33 36
	eSKS	37 41
	iS	38 00
COL	eP	02 30 09
	ipP	32 15
	iP'	34 01
	iPP	34 52
COLU	iP	02 26 05
	iPcP	26 36
	ipP	27 59
	iPP	28 33
	iS	33 54
	iSS	37 13
EUR	iP	02 27 56
	ipP	29 59
	i	30 39
	iS	37 28
	iPKKP	46 14
	i	47 14
	ipPKKP	48 26
	eP'P'	54 15
	eSKPP'	56 30
	e	56 42
HH	iP	02 28 22
	ipP	30 28
	ePP	32 09
	eSKS	37 54
	iS	38 14
	e	41 03
PHIL	iP	02 26 36
	epP	28 33
	e(PP)	29 30
	iS	34 51
	e(PcP)	35 39
	eL	55 54
RC	iP	02 27 42
	e	30 56
	eS	37 20
SLC	iP	02 27 50
	ipP	29 52
	eS	37 17

Date and Station		Phase (GCT)
		h m s
TUC	iP	02 27 13
	epP	29 14
	iS	36 05
	e	38 06
UK	iP	02 28 16
	epP	30 20
	eS	38 10
WASH	iP	02 26 30
	ipP	28 26
	iPP	29 07
	isP	29 27
	e(S)	34 45
May 31		
BC	eP	03 17 35
COL	eP	03 13 36
	i	13 39
	eS	16 13
	iL	17 06
EUR	eP	03 17 13
	iP	17 22
HH	eP	03 16 50
RC	eP	03 17 55
SIT	eP	03 14 10
	iS	17 23
	eL	18 09
TUC	eP	03 18 22
UK	eP	03 16 54
May 31		
COL	iP	04 25 02
	ipP	25 26
EUR	eP	04 26 09
May 31		
BC	eP	07 52 19
EUR	iP	07 52 56
RC	eP	07 53 28
SLC	eP	07 52 57
TUC	iP	07 51 26
May 31		
COL	iP	16 23 32
EUR	eP	16 27 03
HH	eP	16 26 31
May 31		
BC	eP	17 14 13
TUC	eP	17 10 58
	e	11 11
	iL	11 57

Date and Station		Phase (GCT)
		h m s
May 31		
COL	iP	20 17 09
	i	17 47
EUR	eP	20 16 35
May 31		
BH	iP	21 59 15
	iS	22 00 22
BC	iP	22 06 19
BUT	iP	22 06 54
	iS	14 18
	eSS	18 22
	eL	20 22
COLU	iP	22 03 56
	eS	08 50
	eL	11 35
COL	iP	22 09 43
	ipP	10 08
	iPP	12 40
EUR	iP	22 06 40
HH	iP	22 07 12
	eS	14 47
	eL	16 52
PHIL	eP	22 04 48
	ePP	06 07
	eS	10 24
	iS	10 26
	eL	15 52
RC	iP	22 06 10
	ePP	08 01
SLC	iP	22 06 26
	ipP	06 54
TUC	iP	22 05 41
	eL	19 24
UK	eP	22 07 14
WASH	iP	22 04 37
	iPP	05 58
	iS	10 08
	eL	14 53
May 31		
BC	iP	22 25 48
	eS	31 10
BOZ	iP	22 25 21
BUT	iP	22 25 12
	iPcP	26 36
	iS	31 37
COL	eP	22 21 59
	iP	22 01
	iPP	22 13
	e	24 11
	iS	26 06
	iL	27 08

Date and Station		Phase (GCT)
		h m s
COLU	iP	22 28 16
	iS	37 24
	eL	51 16
EUR	iP	22 25 25
	i	30 51
	iS	31 59
HONO	eP	22 24 02
HH	iP	22 24 57
	eS	30 44
	eL	35 04
	eScS	35 09
PHIL	e(P)	22 28 30
	eS	37 11
	eL	51 30
RC	iP	22 26 04
	eS	33 16
SLC	iP	22 25 40
	iPcP	26 36
SIT	eP	22 23 05
	eS	27 40
	eL	29 24
TUC	iP	22 26 26
	eL	44 24
UK	iP	22 24 51
WASH	eP	22 28 20
	iL	58 53

Local and Minor Earthquakes

Station and Date	hour
BOZ	
May	
25	07.5
COL	
May	
2	09.4
	12.5
	14.9
	16.9
3	05.1
	11.2
	11.6
	14.1
	17.4
4	20.5
5	23.1
6	22.1
	23.0
7	14.1
	22.1
8	02.4
	07.1
9	19.1
10	00.2
	08.5
11	04.3
13	15.0
14	08.7
16	01.2
	18.8
	19.4
17	00.1
	00.3
	01.2
	02.3
	05.8
	07.9
18	23.4
19	04.5
	13.9
	14.8
20	00.9
	07.1
	08.7
22	01.4
	06.6
	08.7
	11.8
	11.9
23	05.3
	22.2
24	04.4
	04.8
	19.7
25	12.9
	20.4
26	00.0
	01.1
	22.1
28	19.8
29	21.9
30	08.9
31	08.4

Local and Minor Earthquakes

Station and Date	hour
HONO	
May	
4	01.3
11	01.3
23	23.7
24	04.3
	20.5
25	00.8
	01.0
	01.4
	01.7
28	00.8
	01.1
29	02.0
SLC	
May	
17	00.9
21	00.1
22	12.8
	22.8
24	23.0
	23.4
25	23.0
27	23.5
28	23.0
STT	
May	
3	11.7
UK	
May	
1	19.6
15	01.8
28	12.5
30	12.0