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SEISMOLOGICAL BULLETIN

June, 1958

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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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1958

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
*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
Kipapa, T. H. (KIP)
*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)
Tucson, Ariz. Telemeter (TUC-T)
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. Beginning January 1, 1958 the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States. The horizontal instruments will continue in operation and the seismograms for the local and regional earthquakes will be scaled and the data published.

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. 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, which may be obtained on loan by addressing the Seismograph Station Director, Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone.

Tucson telemeter is located 9 miles northeast of Tucson at 32°20.1' North, 110°43.4' West. It was established in December 1957 to serve as an outpost station.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
June	h m s	°	°	
1	04 00 06*	52½ N.	160 E.	Near east coast of Kamchatka.
1	10 40 17*	18 S.	69 W.	Bolivia-Chile border region. h about 150 km.
1	12 34 56*	5½ S.	146 E.	Near north coast of New Guinea.
1	18 21 17*	60½ N.	143½ W.	Alaska.
1	19 47 05*	19 S.	64½ W.	Southern Bolivia.
3	01 49 36*	51½ N.	178½ W.	Andreanof Islands, Aleutian Islands.
3	19 31 52*	15 S.	168 E.	New Hebrides Islands. Mag. 6½.
4	09 47 39*	7 S.	145 E.	New Guinea. h about 150 km.
4	14 29 50*	52½ N.	167 W.	Fox Islands, Aleutian Islands. Mag. 6-6¼.
5	02 14 16*	5½ S.	151½ E.	New Britain.
5	08 21 07*	10½ S.	166 E.	Santa Cruz Islands.
5	13 23 57*	12½ N.	86½ W.	Near coast of Nicaragua.
5	13 29 42*	36½ N.	20 E.	Off coast of Greece. Felt in southwestern Greece. h about 100 km.
6	09 11 14*	8 N.	84½ W.	Off coast of Costa Rica. Mag. 6½-6¾.
6	12 23 54*	21 S.	69 W.	Northern Chile. h about 150 km.
6	14 38 50*	7 N.	84½ W.	Costa Rica aftershock.
6	15 52 10**			do.
6	19 15 28*	5½ N.	82½ W.	South of Costa Rica. Mag. 6.
6	22 44 05*	8 N.	84½ W.	Off coast of Costa Rica.
6	22 46 20**			Revilla Gigedo Islands.
7	00 28 45*	6½ N.	82½ W.	South of Panama.
7	03 23 42*	5 S.	150½ E.	New Britain. h about 150 km.
7	12 55 01*	53 S.	140 E.	South of Tasmania.
8	00 38 52*	53 N.	167 W.	Fox Islands, Aleutian Islands. Mag. 6½-6¾.
8	15 52 23*	16 S.	75 W.	Near coast of southern Peru.
8	21 09 23*	7 N.	34½ W.	Atlantic Ocean.
9	15 59 00*	52½ N.	168 W.	Fox Islands, Aleutian Islands.
9	21 16 58*	54½ N.	160½ E.	Near east coast of Kamchatka.
10	00 10 30*	53 N.	167 W.	Fox Islands, Aleutian Islands.
10	04 00 04*	30½ S.	177 W.	Kermadec Islands.
10	04 53 35*	27½ N.	140 E.	Bonin Islands region. h about 500 km.
10	07 04 02*	30½ N.	51½ E.	Western Iran.
10	20 21 26**			Panama-Colombia border.
12	11 54 04*	7½ N.	84½ W.	Off coast of Costa Rica. Mag. 6-6¼.
12	20 52 57*	53 N.	167 W.	Fox Islands, Aleutian Islands. Mag. 6½.
12	21 33 25*	53 N.	167 W.	Fox Islands, Aleutian Islands.
13	08 54 51*	15 S.	173½ W.	Samoa Islands region.
13	10 58 44*	50 S.	126 E.	South of Australia.
14	18 29 59*	12 N.	161½ E.	Marshall Islands.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
June	h m s	°	°	
15	02 41 10*	20 S.	178 W.	Fiji Islands. h about 550 km.
15	07 17 29*	22 S.	178 W.	Fiji Islands region.
15	11 32 38*	9 S.	150 E.	Near coast of New Guinea.
15	14 54 37*	18 S.	178½ W.	Fiji Islands. h about 600 km. Mag. 6¼.
15	17 20 56*	9½ S.	150 E.	Near coast of New Guinea.
16	01 10 12*	14½ S.	167½ E.	New Hebrides Islands. h about 100 km.
16	07 13 39*	15 S.	169 E.	New Hebrides Islands.
16	08 13 07*	14½ S.	177½ W.	Fiji Islands region.
16	14 31 59*	13 N.	88½ W.	Near coast of El Salvador. Felt in southern El Salvador. h about 100 km.
16	14 56 58*	7½ S.	80 W.	Near coast of Peru.
17	00 27 00*	43 N.	141 E.	Hokkaido, Japan.
17	15 07 30*	27 N.	141 E.	Bonin Islands region.
17	19 06 43*	25 N.	142½ E.	Volcano Islands. h about 60 km.
18	01 15 02*	68½ N.	16 W.	Off north coast of Iceland.
18	02 23 27*	69 N.	16 W.	Iceland aftershock.
18	04 34 04*	69 N.	16 W.	do.
18	06 40 40*	14½ N.	94 W.	Off south coast of Mexico.
19	03 21 56*	59 N.	136 W.	Alaska-Yukon border.
19	04 01 08*	15½ N.	92 W.	Mexico-Guatemala border. h about 100 km.
19	05 18 00*	49½ N.	156 E.	Kurile Islands. Mag. 6½.
19	09 48 50**			Near coast of Guerrero, Mexico.
19	11 11 20*	15½ S.	168½ E.	New Hebrides Islands.
19	18 02 15*	52½ S.	140 E.	South of Tasmania.
20	00 47 58*	16 S.	173 W.	Samoa Islands region.
20	17 32 36*	20½ S.	179 W.	Fiji Islands. h about 600 km.
20	19 17 10*	31½ N.	129½ E.	Off coast of Kyushu, Japan.
21	03 25 09*	33 N.	42 W.	North Atlantic Ocean.
21	08 23 43**			Andreanof Islands, Aleutian Islands.
21	23 39 30**			Near southeast coast of Kamchatka.
22	04 57 38*	44 N.	147 E.	Southern Kurile Islands.
22	05 29 29*	37 N.	135 E.	Sea of Japan. h about 350 km.
23	05 10 03*	49 N.	102 E.	Outer Mongolia.
23	07 19 02	15½ S.	168½ E.	New Hebrides Islands.
23	18 53 23*	18 S.	178 W.	Fiji Islands foreshock. h about 650 km.
23	19 17 43*	18 S.	178 W.	Fiji Islands. h about 650 km.
24	00 09 18*	8½ S.	112 E.	Near south coast of Java. h about 200 km.
24	04 48 15*	40½ N.	78½ E.	Western Sinkiang Province, China.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
June	h m s	°	°	
25	09 36 30*	3 S.	144½ E.	Near north coast of New Guinea. Mag. 6¼-6½.
25	12 43 55*	5 S.	152 E.	New Britain. Felt at Rabaul.
25	23 24 03*	52 N.	152½ E.	Sea of Okhotsk. h about 450 km.
26	04 38 12*	54½ N.	159½ E.	Kamchatka. Depth slightly greater than normal. Mag. 6½-6¾.
26	07 39 21*	14 N.	125½ E.	Ryukyu Islands.
26	23 29 32*	31 N.	141½ E.	South of Honshu, Japan.
27	05 44 28*	13 N.	88½ W.	Near coast of El Salvador. Slight damage in southern El Salvador. h about 60 km. Mag. 6.
28	19 29 58*	12 N.	162 E.	Marshall Islands.
29	03 25 42*	15½ S.	70½ W.	Southern Peru. h about 150 km. Mag. 6½ (Berk).
29	09 14 37*	16½ S.	172 W.	Tonga Islands.
29	12 40 48*	15½ S.	173 W.	Samoa Islands region.
29	23 14 59*	3½ N.	127 E.	Molucca Passage.
30	08 42 33*	36½ N.	27½ E.	Dodecanese Islands. Felt.
30	14 02 08*	73 N.	69½ W.	Baffin Bay.
30	18 26 20*	31 N.	141½ E.	South of Honshu, Japan. Mag. 6¾.

Date and Station		Phase	(GCT) h m s
June 1			
EUR		eP	01 10 13
June 1			
EUR		eP	01 43 35
June 1			
COL		eP	02 40 08
EUR		iP	02 38 53
HH		eP	02 38 00
		eL	40 49
RC		eP	02 39 56
TUC		eP	02 40 34
TUC-T		eP	02 40 34
		e	40 36
UK		eP	02 38 20
		e	38 26
June 1			
BC		eP	04 10 12
COL		iP	04 06 05
		iPcP	09 13
EUR		iP	04 09 51
		i	10 04
		iPcP	10 46
HH		eP	04 09 15
		iPcP	10 30
RC		eP	04 10 16
TUC		eP	04 10 46
TUC-T		eP	04 10 46
June 1			
EUR		eP	04 59 45
June 1			
EUR		eP	07 12 03
June 1			
EUR		eP	10 15 27
June 1			
BOZ		eP	10 51 41
		epP	52 06
BUT		iP	10 51 46
		esP	52 22
EUR		iP	10 51 30
HH		iP	10 52 00
		epP	52 35
RC		eP	10 51 12
		epP	51 46
SJ		eP	10 47 09
		e(pP)	47 40
TUC		eP	10 50 39
		epP	51 01
TUC-T		eP	10 50 39
		esP	51 12
June 1			
COL		iP	12 47 33
		i	48 06
EUR		eP	12 48 42
SJ		eP'	12 54 36
June 1			
BC		eP	16 51 52
		e	52 06
		eS	52 43
		eL	52 59
EUR		iP	16 50 56
HH		e(P)	16 53 39
		e	55 30
SLC		eP	16 52 07
		e	52 50
TUC		eP	16 53 29
		e	55 44
TUC-T		e(P)	16 53 25
		e	55 20
UK		e(P)	16 51 48
		eL	52 28
June 1			
BC		eP	18 27 37
BOZ		eP	18 26 45
		e	27 53
BUT		eP	18 26 28
		e	26 40
		eL	33 59
COL		iP	18 22 33
		eS	23 33
		iL	23 56
EUR		iP	18 27 04
HH		iP	18 26 03
		eL	32 33
RC		eP	18 27 27
		eL	37 12
SLC		eP	18 27 09
SIT		iP	18 22 40
		i	22 59
		eS	23 41
		eL	23 45
TUC		eP	18 28 19
TUC-T		iP	18 28 18
WASH		eL	18 41 15
June 1			
BC		eP	19 58 34
BOZ		eP	19 59 00
BUT		iP	19 59 07
COL		eP	20 01 12
EUR		iP	19 58 52
		i	59 26
HH		iP	19 59 20
RC		eP	19 58 34
SLC		iP	19 58 43
SJ		eP	19 54 30
		i	55 24
TUC		iP	19 58 04
TUC-T		iP	19 58 04
June 1			
COL		iP	23 05 17
EUR		eP	23 08 42
June 2			
EUR		eP	01 32 54
June 2			
EUR		eP	02 17 39
TUC		e(P)	02 16 36
TUC-T		eP	02 16 28
		e	16 36
June 2			
BC		iP	03 03 29
		eS	03 55
		iL	04 09
EUR		eP	03 04 07
		i	04 28
		eS	05 30
		eL	05 49
June 2			
BC		eP	06 35 16
June 2			
EUR		eP	06 55 26
June 2			
TUC		eP	07 47 16
TUC-T		eP	07 47 17
June 2			
EUR		eP	09 18 54
June 2			
COL		iP	10 04 19
June 2			
EUR		eP	12 30 57
HH		eP	12 30 27
RC		eP	12 31 35
TUC-T		e(P)	12 32 04
June 2			
HH		eP	17 59 44
June 2			
EUR		eP	18 10 59
TUC-T		eP	18 10 05
June 3			
EUR		eP	00 07 23
June 3			
BOZ		eP	01 57 44
COL		eP	01 54 24
		eS	58 08
		eL	02 01 00
EUR		iP	01 57 48
HH		iP	01 57 19
		ePcP	59 33
		eS	02 03 09
RC		iP	01 58 28
SLC		eP	01 58 04
TUC		eP	01 58 50
		e	58 57
TUC-T		eP	01 58 49
June 3			
SJ		eP	02 02 35
June 3			
EUR		eP	02 45 47
June 3			
EUR		eP	02 49 11
June 3			
EUR		e(P)	04 37 17
June 3			
EUR		eP	04 44 19
June 3			
SJ		eP	05 35 51
June 3			
EUR		eP	07 00 04
TUC-T		e(P)	07 01 46
		e	01 51
June 3			
TUC-T		eP	07 52 27

Date and Station		Phase (GCT)
		h m s
June 3		
HH	e(P)	08 29 16
June 3		
SLC	eP	11 19 45
	e	20 11
June 3		
EUR	eP	16 04 56
HH	eP	16 05 31
RC	eP	16 04 35
TUC	eP	16 03 55
TUC-T	eP	16 03 56
June 3		
BH	eP	17 13 28
June 3		
BH	e(P')	19 48 40
	ePP	51 39
BC	eP	19 44 50
	e	46 30
BOZ	eP	19 45 17
BUT	eP	19 45 12
COL	iP	19 44 38
	ePP	48 00
	e	49 11
	iS	55 06
	i	55 27
	e(SS)	20 01 05
	eL	08 23
EUR	iP	19 44 52
HONO	iP	19 40 44
	iPcP	42 10
	iPP	43 05
	iS	47 59
	iScS	50 52
	eL	51 46
	eT	20 33 13
	iL	33 49
HH	eP	19 45 10
KIP	eP	19 40 52
	eT	20 33 39
	iT	33 56
RC	eP'	19 49 06
	e	49 39
SLC	eP	19 45 16
	e	45 26
SJ	e(P')	19 50 59
	e	53 12
SIT	iP	19 44 36

Date and Station		Phase (GCT)
		h m s
TUC	iP	19 44 59
	i	45 12
	e	45 39
	e	47 20
	ePP	48 37
	iS	55 34
	eL	20 12 20
TUC-T	iP	19 44 59
	i	45 11
	e	45 34
	ePP	48 43
UK	iP	19 44 25
	i	44 37
WASH	eP'	19 51 01
	iPP	20 02 01
	eL	29 08
June 4		
RC	e(P)	01 44 21
June 4		
COL	iP	03 43 12
EUR	eP	03 45 08
HH	iP	03 45 02
TUC	eP	03 45 40
TUC-T	eP	03 45 40
June 4		
EUR	eP	03 58 23
RC	eP	03 58 01
	e	04 02 40
TUC	e(P)	03 57 30
TUC-T	eP	03 57 25
	e	04 00 14
June 4		
COL	iP	10 00 10
	epP	01 05
EUR	eP	10 01 17
HH	eP	10 01 22
SJ	eP'	10 07 10
UK	eP	10 00 50
	epP	01 39
June 4		
COL	iP	11 05 27
June 4		
COL	iP	11 47 20
	i	47 51
June 4		
EUR	eP	14 13 58
TUC-T	eP	14 13 03

Date and Station		Phase (GCT)
		h m s
June 4		
BH	eP	14 42 09
	eS	52 18
BC	eP	14 37 28
	e	37 40
BOZ	eP	14 36 59
	e	37 21
BUT	eP	14 36 59
COL	iP	14 33 32
	iS	36 34
	iL	38 08
COLU	eP	14 40 13
EUR	iP	14 37 03
HONO	eP	14 36 17
	iS	41 36
	iL	43 29
HH	iP	14 36 31
	i	36 48
	i	37 01
	iPP	37 54
	i(PcP)	39 13
	eS	42 56
	eScS	46 55
KIP	iP	14 36 18
	iPP	37 26
RC	eP	14 37 45
	e	37 56
	ePP	39 44
	eL	54 16
SLC	eP	14 37 27
	e	38 37
SJ	eP	14 42 14
	e	42 27
SIT	eP	14 34 14
	i	34 46
	eS	37 47
	eL	40 20
TUC	iP	14 38 09
	e	38 52
	eS	44 50
	eScS	48 06
	eL	50 46
TUC-T	iP	14 38 09
UK	iP	14 36 27
	eL	47 08
WASH	eP	14 40 03
June 4		
EUR	eP	17 08 36
June 4		
EUR	eP	19 01 33

Date and Station		Phase (GCT)
		h m s
June 4		
COL	iP	20 28 43
EUR	eP	20 29 04
June 4		
EUR	eP	21 37 54
June 4		
EUR	eP	22 00 20
June 4		
EUR	eP	22 44 23
June 5		
BUT	eP	02 06 35
COL	eP	02 04 40
EUR	eP	02 06 31
HH	iP	02 06 27
June 5		
COL	iP	02 26 43
EUR	iP	02 27 44
HH	eP	02 27 49
June 5		
COL	iP	02 37 41
June 5		
COL	iP	03 11 09
EUR	eP	03 12 09
June 5		
EUR	eP	04 36 47
HH	e(P)	04 37 30
	i	39 31
TUC	eP	04 35 37
TUC-T	eP	04 35 37
	e	35 41
June 5		
COL	eP	05 02 41
June 5		
BC	eP	08 34 02
	e	34 07
BOZ	eP	08 34 26
BUT	eP	08 34 22
COL	eP	08 33 35
	i	33 48
EUR	iP	08 34 02
HH	iP	08 34 18
SLC	eP	08 34 18

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Date and Station		Phase	(GCT) h m s
TUC		iP	08 34 15
TUC-T		iP	08 34 15
UK		eP	08 33 35
June 5			
COL		iP	09 32 55
June 5			
EUR		eP	11 07 07
HH		e(P)	11 07 25
June 5			
EUR		eP	11 24 05
June 5			
BH		eP	13(25)53
		iS	(28)30
COL		eP	13 34 52
COLU		eP	13 29 05
EUR		eP	13 31 17
HH		eP	13 31 58
		iPcP	33 47
RC		eP	13 31 05
SLC		eP	13 31 14
TUC		eP	13 30 24
TUC-T		eP	13 30 24
June 5			
BUT		eP	13 42 48
COL		eP	13 41 44
EUR		eP	13 43 15
HH		eP	13 42 24
RC		eP	13 42 26
June 5			
COL		e(P)	14 23 35
		i	23 54
		i	24 02
June 5			
COL		iP	17 34 29
		i	34 40
EUR		iP	17 38 15
HH		eP	17 38 52
RC		eP	17 38 41
June 5			
COL		eP	18 09 18
June 5			
BH		eP	22 45 39
BH		eS	22 45 49
June 6			
TUC		eP	01 15 28
TUC-T		eP	01 15 28
June 6			
COL		iP	02 04 47
June 6			
BC		eP	09 18 49
		e	19 41
		eL	28 15
BOZ		iP	09 19 26
		i	19 46
		ePP	21 05
		eS	26 10
BUT		eP	09 19 33
		e	23 16
		eS	26 22
COL		iP	09 22 39
		ePP	25 06
		iPP	25 16
		iS	32 02
		eSS	36 37
		eL	40 16
COLU		iP	09 16 52
		e	17 18
		eS	21 32
		eL	24 15
EUR		iP	09 19 13
HH		iP	09 19 52
		ePPP	21 48
		eS	27 11
		eSKPP'	54 19
KIP		eP	09 22 52
RC		iP	09 18 49
		iPP	20 29
		eL	33 20
SLC		iP	09 19 00
		i	19 48
		e	22 38
		eS	25 26
		eL	33 20
SJ		iP	09 15 56
		eS	20 05
		eL	22 24
SIT		eP	09 21 43
		ePP	24 03
TUC		iP	09 18 07
		ePP	19 30
		iPP	19 33
		ePcP	20 17
		iS	23 46
		eL	27 58
TUC-T		iP	09 18 07
		iPP	19 34
		iPcP	20 14
UK		eP	09 19 47
		ePP	21 46
		ePPP	22 32
WASH		iP	09 17 44
		iPP	19 08
		eS	23 02
		eL	23 58
June 6			
BH		iP	09 42 32
		eS	49 32
June 6			
EUR		eP	09 58 06
June 6			
EUR		eP	10 31 29
June 6			
EUR		eP	11 48 18
June 6			
BC		eP	12 35 03
BUT		iP	12 35 36
		i	36 11
EUR		iP	12 35 21
		i	35 49
HH		iP	12 35 49
		i	36 24
RC		iP	12 35 04
SLC		eP	12 35 12
SJ		eP	12 31 05
		ePcP	31 37
		e	33 39
TUC		iP	12 34 31
TUC-T		iP	12 34 31
		e	35 04
June 6			
BH		iP	14 40 11
		iL	42 23
BOZ		eP	14 47 07
COL		eP	14 50 17
EUR		eP	14 46 52
HH		eP	14 47 33
RC		eP	14 46 29
SJ		eP	14 43 38
June 6			
BH		iP	15 53 19
		iL	54 38
COL		eP	16 03 37
EUR		eP	16 00 08
HH		eP	16 00 50
RC		eP	15 59 54
SLC		eP	16 00 00
SJ		eP	15 56 52
June 6			
COL		iP	16 27 32
June 6			
EUR		eP	17 44 41
June 6			
BH		iP	19 16 40
		iL	17 43
BC		eP	19 23 26
		e	23 42
BOZ		eP	19 24 02
		e	24 53
		ePP	25 57
BUT		e(P)	19 25 27
COL		iP	19 27 09
		eS	36 51
		eL	46 20
COLU		eP	19 21 25
		e	23 44
EUR		iP	19 23 49
HH		iP	19 24 28
RC		iP	19 23 26
		i	23 38
		ePP	25 30
SLC		iP	19 23 38
		ePP	25 12
SJ		iP	19 20 09
		eS	24 28
		eL	26 46
TUC		iP	19 22 45
		iPP	24 22
		ePcP	25 04
		eS	28 52
		e	31 40
		eL	34 12
TUC-T		iP	19 22 44
		i	23 40
		ePP	24 20
		ePcP	25 10
		eL	33 41
UK		eP	19 24 22
		i	24 34
		e	25 18

Date and Station		Phase (GCT)
		h m s
WASH	iP	19 22 16
	e	23 14
	eS	28 00
	eL	32 13
June 6		
SLC	eP	20 00 33
June 6		
BH	iP	22 45 20
	iL	46 31
BC	eP	22 51 43
BOZ	eP	22 52 17
BUT	eP	22 52 26
	ePP	54 17
COLU	eP	22 49 43
EUR	e(P)	22 52 13
HH	iP	22 52 43
	i	52 50
SLC	eP	22 51 49
SJ	eP	22 48 47
	e	50 19
June 6		
BC	eP	22 50 16
	e	50 35
BOZ	eP	22 51 50
COL	eP	22 55 25
EUR	iP	22 50 57
HH	eP	22 52 15
RC	eP	22 51 39
SLC	eP	22 51 02
TUC	iP	22 49 18
	i	49 43
	eL	53 14
TUC-T	iP	22 49 19
	e(S)	52 17
	eL	53 54
UK	eP	22 51 25
WASH	eP	22 50 29
	ePP	51 53
	e(S)	55 07
	eL	59 30
	iL	23 02 50
June 7		
HH	iP	00 00 52
June 7		
BH	iP	00 29 57
	iS	30 57

Date and Station		Phase (GCT)
		h m s
EUR	eP	00 37 06
HH	eP	00 37 45
SJ	eP	00 33 27
	e	34 24
TUC-T	eP	00 36 02
June 7		
EUR	eP	01 42 54
June 7		
EUR	eP	03 18 30
TUC	eP	03 17 21
TUC-T	eP	03 17 19
June 7		
COL	iP	03 35 56
	e	36 33
EUR	eP	03 37 03
HH	e(P)	03 37 59
	e	38 16
TUC	eP	03 36 32
TUC-T	eP	03 36 31
June 7		
BH	iP	03 31 01
	iS	32 21
SJ	eP	03 34 21
June 7		
EUR	eP	09 32 01
HH	eP	09 31 51
June 7		
BC	eP	10 38 40
EUR	iP	10 39 22
TUC	iP	10 37 42
TUC-T	iP	10 37 43
June 7		
COL	eP'	13 14 16
EUR	eP'	13 14 15
HH	eP'	13 14 31
June 7		
COL	iP	15 49 01
June 7		
EUR	eP	18 08 48
June 7		
COL	iP	18 40 11
	i	40 42
	i	41 06

Date and Station		Phase (GCT)
		h m s
EUR	eP	18 41 54
HH	e(P)	18 41 28
SJ	eP'	18 47 16
	e	47 35
June 7		
EUR	eP	19 35 42
June 7		
HH	eP	20 34 16
June 7		
BH	eP	22 50 42
	eS	51 58
June 7		
COL	iP	23 31 27
EUR	eP	23 31 07
TUC	eP	23 31 10
TUC-T	eP	23 31 10
June 8		
EUR	eP	00 10 26
June 8		
BC	eP	00 46 28
	ePP	47 44
BOZ	eP	00 45 57
	e	46 08
	ePcP	48 22
BUT	iP	00 45 48
	e	46 05
	ePcP	48 19
COL	iP	00 42 28
	eS	45 10
	eL	46 37
COLU	eP	00 49 08
EUR	iP	00 46 03
	iPcP	48 23
HONO	e(P)	00 45 52
	eT	01 19 15
	iT	19 45
HH	iP	00 45 31
	i	45 43
	iPcP	48 13
KIP	e(P)	00 45 23
	eP	45 33
	eT	01 19 06
	iT	19 36
SLC	iP	00 46 18
	e	46 39
	ePcP	48 28
SJ	iP	00 51 12

Date and Station		Phase (GCT)
		h m s
SIT	iP	00 43 11
	i	43 18
TUC	iP	00 47 08
	ePcP	48 50
	eL	57 35
TUC-T	iP	00 47 08
	ePcP	48 50
UK	eP	00 45 28
	ePcP	48 12
WASH	iP	00 48 59
	ePP	51 12
	eL	01 11 03
June 8		
BH	eP	00 59 56
	eS	01 06 27
COL	iP	00 56 39
EUR	eP	00 56 09
HH	e(P)	00 56 46
TUC	eP	00 56 11
TUC-T	eP	00 56 12
June 8		
EUR	eP	01 05 35
SJ	eP	01 06 18
	e	06 40
TUC-T	eP	01 05 54
WASH	i(P)	01 09 15
June 8		
EUR	eP	03 43 44
June 8		
COL	iP	11 58 04
June 8		
BC	eP	16 03 03
BUT	eP	16 03 43
COL	eP	16 05 58
COLU	eP	16 01 21
	e	01 30
EUR	iP	16 03 22
HH	iP	16 03 57
SJ	eP	15 59 17
TUC	eP	16 02 29
	i	02 38
TUC-T	eP	16 02 29
	i	02 38

Date and Station		Phase	(GCT) h m s
June 8			
EUR		eP	16 17 22
		iL	18 26
June 8			
EUR		eP	16 41 41
June 8			
BH		eP	18 04 49
		eS	05 49
June 8			
COLU		eP	21 03 26
June 8			
BC		eP	21 21 26
BUT		eP	21 21 18
EUR		iP	21 21 31
HH		iP	21 21 24
SJ		e(P)	21 16 05
		e	16 16
TUC		eP	21 21 10
TUC-T		eP	21 21 07
June 8			
EUR		eP	21 28 48
June 8			
EUR		eP	21 43 03
June 8			
TUC		eP	22 18 49
TUC-T		eP	22 18 49
June 8			
EUR		iP	23 26 53
HH		iP	23 26 59
June 8			
EUR		eP	23 38 50
June 9			
TUC		eP	00 18 48
		e	34 30
TUC-T		eP	00 18 50
		i	18 58
		e	34 30
June 9			
BH		eP	02 04 46
		eS	06 07
June 9			
EUR		eP	02 41 27
June 9			
EUR		iP	06 09 52
HH		e(P)	06 10 16
TUC		eP	06 11 39
TUC-T		e(P)	06 11 40
June 9			
HH		e(P)	06 18 30
June 9			
EUR		eP	07 52 08
		i	52 38
HH		eP	07 52 37
		i	53 07
TUC		eP	07 51 18
		e	51 46
TUC-T		eP	07 51 18
		e	51 46
June 9			
COL		iP	09 59 56
June 9			
EUR		eP	10 51 26
June 9			
EUR		eP	15 45 34
June 9			
BC		eP	16 06 44
BOZ		eP	16 06 13
COL		eP	16 02 49
		eS	05 50
		eL	07 42
EUR		iP	16 06 19
		i	06 46
HH		iP	16 05 47
		i	06 05
		ePcP	08 29
SJ		eP	16 11 29
TUC		eP	16 07 24
TUC-T		eP	16 07 24
June 9			
EUR		eP	16 18 10
June 9			
EUR		eP	16 21 37
June 9			
COL		iP	17 45 44
June 9			
COL		iP	21 22 46
EUR		iP	21 26 38
		i(PcP)	27 11
HH		eP	21 26 00
		iPcP	27 17
TUC-T		eP	21 27 35
June 10			
BC		eP	.00 18 12
BOZ		eP	00 17 38
		e	18 10
BUT		eP	00 17 32
COL		eP	00 14 13
		eS	17 14
		eL	18 45
EUR		iP	00 17 42
HH		iP	00 17 11
		ePP	18 42
		iPcP	19 51
		i	20 20
SLC		eP	00 18 01
		ePP	19 49
SJ		eP	00 22 52
SIT		eP	00 15 02
June 10			
EUR		eP	00 33 25
HH		eP	00 32 53
		i	35 34
June 10			
EUR		eP	01 32 21
TUC		eP	01 32 24
TUC-T		eP	01 32 25
June 10			
BC		eP	04 13 01
		e	13 16
COL		iP	04 13 42
		i	14 09
EUR		iP	04 13 08
		ePKKP	30 22
TUC		iP	04 13 04
		i	13 14
TUC-T		iP	04 13 05
		i	13 14
June 10			
BC		eP	05 05 25
		epP	07 10
BOZ		eP	05 05 13
		epP	06 56
BUT		iP	05 05 07
		ipP	06 52
COL		iP	05 02 42
		epP	04 19
EUR		iP	05 05 11
		ipP	06 53
HH		iP	05 04 56
		ipP	06 39
SLC		eP	05 05 23
		epP	07 07
TUC		eP	05 05 48
		epP	07 38
TUC-T		eP	05 05 48
		epP	07 38
June 10			
COL		iP	07 16 36
EUR		eP	07 18 30
HH		eP	07 17 52
June 10			
COL		iP	08 40 26
HH		iP	08 41 12
June 10			
COL		iP	09 15 48
		i	15 55
		iS	16 33
		iL	16 55
June 10			
COL		iP	14 20 06
		iS	20 27
		eL	20 38
June 10			
EUR		eP	15 29 19
June 10			
HH		iP	16 06 17
June 10			
HH		e(P)	17 01 03
June 10			
COL		iP	17 40 20
EUR		iP	17 41 38
HH		iP	17 41 45
June 10			
BH		iP	17 48 46
		iS	49 45
EUR		eP	17 55 18
HH		eP	17 55 59
June 10			
BH		iP	20 22 04
		eL	23 09
EUR		eP	20 30 14

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Date and Station		Phase (GCT) h m s
SJ	eP	20 25 11
	i	25 31
June 10		
EUR	eP	21 16 16
June 10		
BOZ	eP	21 27 28
	e	27 48
June 10		
COL	iP	22 32 28
	i	32 39
	i	33 19
	iS	33 24
	iL	33 30
June 11		
EUR	eP	02 26 13
TUC	e(P)	02 26 18
	e	26 49
TUC-T	eP	02 26 23
June 11		
EUR	eP	03 38 17
SJ	eP	03 32 38
	e	34 57
TUC	eP	03 37 23
TUC-T	eP	03 37 23
June 11		
EUR	eP	03 56 18
TUC	eP	03 56 15
	e	56 24
TUC-T	iP	03 56 16
	e	56 30
June 11		
EUR	iP	06 06 35
June 11		
COL	eP	08 09 52
June 11		
HH	e(P)	09 56 56
June 11		
EUR	eP	13 33 33
June 11		
EUR	iP	16 27 11
June 11		
EUR	eP	16 46 53
HH	eP	16 46 23
June 11		
COL	eP	19 05 40
June 11		
COL	eP	19 09 35
June 11		
BH	eP	22 12 01
June 11		
HH	i(P)	23 41 54
June 12		
COL	eP	05 10 13
June 12		
COL	iP	05 35 18
June 12		
COL	iP	05 48 19
June 12		
COL	iP	08 55 16
June 12		
BH	eP	10 31 50
EUR	eP	10 37 17
HH	eP	10 37 58
RC	eP	10 37 02
June 12		
EUR	eP	11 35 53
TUC	e(P)	11 33 20
	e	34 52
June 12		
BH	eP	11 55 23
	iS	56 43
BC	eP	12 01 40
	e	01 59
BUT	eP	12 02 25
	e	03 15
COL	eP	12 05 24
	i	05 38
COLU	eP	11 59 45
	e	12 00 31
EUR	iP	12 02 05
HH	iP	12 02 45
RC	iP	12 01 41
	epP	03 17
SLC	eP	12 01 52
	e	02 31
SJ	eP	11 58 50
	i	58 54
TUC	iP	12 00 58
	ePP	02 17
	eL	11 34
TUC-T	iP	12 00 58
June 12		
EUR	eP	13 36 56
June 12		
COL	iP	18 20 36
EUR	eP	18 20 02
TUC-T	eP	18 20 01
June 12		
BC	eP	20 40 59
	e(S)	41 10
	eL	41 40
EUR	eP	20 41 17
	eS	42 08
	eL	42 25
June 12		
BH	e(S)	21 15 27
BC	eP	21 00 35
	e	00 59
BUT	eP	21 00 02
	e	00 50
	ePcP	02 30
COL	iP	20 56 38
	i	56 42
	iS	59 42
	iL	21 01 18
COLU	eP	21 03 17
EUR	iP	21 00 11
	iScP	06 43
HONO	eP	20 59 27
	iP	59 29
	iS	21 04 24
	iL	06 18
HH	iP	20 59 39
	iPcP	21 02 21
	iScP	06 08
	eP'P'	34 58
	e	37 22
KIP	eP	20 59 01
	i	21 00 04
	eT	32 40
	iT	32 59
	iT	33 46
	iT	34 04
RC	eP	21 00 51
	i	01 07
SLC	eP	21 00 25
SJ	iP	21 05 20
SIT	eP	20 57 20
	eL	21 03 29
TUC	iP	21 01 16
TUC	e(PcP)	21 02 36
	ePP	03 16
	eS	08 08
	eScS	11 06
	eL	14 14
TUC-T	iP	21 01 17
UK	iP	20 59 36
	eL	21 10 11
WASH	iP	21 03 12
June 12		
EUR	eP	21 31 22
June 12		
COL	iP	21 31 55
EUR	eP	21 35 19
June 12		
BC	eP	21 40 56
COL	iP	21 37 05
EUR	iP	21 40 36
HH	iP	21 40 04
	epP	41 32
	iPcP	42 46
	eL	46 30
RC	eP	21 41 17
	e	41 32
SJ	eP	21 45 46
SIT	eP	21 37 45
	e	38 02
TUC	eP	21 41 42
TUC-T	eP	21 41 42
June 12		
TUC-T	eP	22 03 49
June 12		
COL	eP	22 21 46
EUR	eP	22 25 17
HH	eP	22 24 46
June 13		
COL	iP	00 12 05
June 13		
HH	e(P)	01 46 59
June 13		
COL	iP	07 21 38
	i	21 48
	iS	22 31
	iL	22 47

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Date and Station		Phase	(GCT) h m s
June 13			
BUT		eP	07 32 47
		e	33 35
HH		eP	07 33 26
		eL	34 46
SLC		e(P)	07 33 45
June 13			
COL		iP	09 07 14
EUR		eP	09 06 43
TUC		eP	09 06 43
June 13			
COL		iP	10 21 38
EUR		eP	10 23 29
HH		e(P)	10 23 23
June 13			
BC		eP'	11 18 16
BOZ		eP'	11 18 17
BUT		eP'	11 18 19
COL		iP'	11 17 58
		ePP	20 19
EUR		eP'	11 18 08
HH		eP'	11 18 15
RC		eP'	11 18 29
		e	18 44
SJ		eP'	11 18 30
		i	18 36
TUC		e(P')	11 18 28
June 13			
BOZ		eP	15 26 01
COL		iP	15 29 46
EUR		iP	15 24 52
HH		eP	15 26 20
RC		eP	15 25 41
TUC		eP	15 23 30
		e	25 03
June 13			
COL		iP	15 35 16
		iS	35 21
		iL	35 25
TUC		eP	15 39 07
June 13			
COL		e(P)	17 13 16
June 13			
COL		e(P)	18 16 34
June 13			
BOZ		eP	21 15 18
		e	15 35
EUR		eP	21 16 36
HH		eP	21 16 04
		i	16 18
		i(S)	17 01
		iL	17 19
SLC		eP	21 26 02
		e	26 51
RC		e(P)	21 16 15
		e	16 33
		eL	18 26
June 13			
TUC		eP	23 24 39
June 13			
EUR		eP	23 46 00
RC		eP	23 45 43
June 14			
COL		iP	01 53 35
EUR		eP	01 53 16
RC		e(P)	01 56 47
TUC		eP	01 53 19
TUC-T		iP	01 53 20
June 14			
WASH		eP	02 49 24
June 14			
COL		eP	04 05 19
		iP	05 20
		i	06 35
June 14			
BUT		eP	08 08 04
COL		eP	08 06 16
		iP	06 20
EUR		eP	08 08 49
HH		eP	08 07 44
RC		eP	08 08 00
TUC		eP	08 09 32
TUC-T		iP	08 09 31
June 14			
COL		iP	08 11 57
		i	12 11
EUR		eP	08 15 27
June 14			
COL		eP	10 27 02
EUR		eP	10 30 50
June 14			
COL		eP	12 12 29
EUR		eP	12 11 56
HH		e(P)	12 12 35
TUC		eP	12 11 56
TUC-T		eP	12 11 54
June 14			
COL		eP	13 13 57
June 14			
EUR		eP	14 28 40
TUC-T		eP	14 28 12
June 14			
COL		e(P)	17 05 40
June 14			
COL		iP	17 40 22
EUR		iP	17 41 39
HONO		eT	18 15 20
		iT	15 28
HH		iP	17 41 45
June 14			
BC		eP	18 41 59
BOZ		eP	18 42 11
COL		iP	18 40 29
		i	43 18
EUR		iP	18 41 53
HH		iP	18 41 57
KIP		eT	19 18 56
		iT	19 04
RC		iP	18 42 38
TUC-T		iP	18 42 19
		e	42 52
June 14			
HH		i(P)	19 50 06
June 14			
COL		iP	21 03 55
June 14			
BH		eP	21 54 46
EUR		eP	22 01 28
HH		e(P)	22 02 07
TUC		e(P)	22 01 24
June 15			
EUR		eP	01 47 00
HH		e(P)	01 47 43
TUC		eP	01 48 44
TUC-T		eP	01 48 42
June 15			
COL		iP	01 57 38
June 15			
BC		iP	02 52 35
		e	52 48
BOZ		eP	02 53 12
		ePP	56 48
BUT		eP	02 53 08
		ePP	56 43
COL		iP	02 53 03
		i	53 24
		i	54 05
		e	55 01
EUR		iP	02 52 39
		i	53 08
		iPP	55 59
HH		iP	02 53 08
		iPP	56 44
KIP		iP	02 48 44
RC		eP	02 53 30
		e	56 01
		ePP	57 20
TUC		iP	02 52 40
TUC-T		iP	02 52 40
June 15			
SLC		eP	04 29 31
		e	29 49
June 15			
COL		iP	05 26 44
June 15			
BC		eP	07 30 02
COL		iP	07 30 27
EUR		eP	07 30 06
HH		e(P)	07 30 33
SLC		eP	07 30 22
TUC		iP	07 30 06
TUC-T		iP	07 30 07

Date and Station		Phase (GCT) h m s
June 15		
COL	iP	11 45 25
	ePPP	50 54
EUR	eP	11 46 24
HH	eP	11 46 33
June 15		
WASH	iP	14 21 50
June 15		
BC	eP	15 05 57
	e	06 25
	epP	07 55
	e	08 21
BOZ	eP	15 06 34
	epP	08 34
	epPP	11 52
BUT	iP	15 06 28
	epP	08 27
	epPP	11 39
COL	iP	15 06 19
	ipP	08 20
	eSKS	15 50
	i	15 53
	iS	16 07
	eSP	17 08
	esS	19 45
	ePKKP	24 17
	e	32 10
EUR	iP	15 06 02
	ipP	07 57
	ePKKP	23 57
	ipPKKP	25 25
	eSKPP'	34 55
	ipSKPP'	36 11
HONO	iP	15 01 58
	ipP	03 40
	eS	07 51
	eScS	10 25
	eL	12 30
HH	iP	15 06 28
	ipP	08 32
	ePP	10 03
	epPP	11 40
	eSKS	16 06
	iPKKP	24 16
	eP'P'	32 10
KIP	eP	15 01 58
	iP	01 59
	iP'P'	34 40
RC	eP	15 06 51
	ipP	08 53
	ePP	10 41
	epPP	12 24
	iPKKP	24 04
	eP'P'	32 12
SLC	eP	15 06 20
	epP	08 17
SIT	eP	15 06 09
	epP	08 09
TUC	iP	15 06 03
	ipP	08 01
	esP	08 57
	iSKPP'	35 15
TUC-T	iP	15 06 04
	ipP	08 01
	e(S)	15 35
	iS	15 36
	eP'P'	32 19
	iSKPP'	35 14
UK	iP	15 05 36
	ipP	07 33
June 15		
EUR	eP	16 08 42
	eL	09 44
June 15		
COL	eP	16 11 01
HH	e(P)	16 13 57
June 15		
COL	eP	17 33 43
	iP	33 46
EUR	eP	17 34 46
HH	eP	17 34 56
SJ	eP'	17 40 37
June 15		
COL	iP	18 55 38
	i	57 56
	i	19 00 55
June 15		
COL	iP	19 06 56
HH	iP	19 06 07
June 15		
COL	iP	19 23 23
June 15		
COL	eP	21 45 10
June 15		
COL	iP	21 55 35
June 15		
COL	eP	22 16 56
June 15		
COL	iP	23 26 17
EUR	eP	23 26 36
TUC-T	eP	23 26 47
June 16		
HH	iP	00 34 03
June 16		
COL	iP	01 09 16
June 16		
COL	iP	01 22 47
	ipP	23 25
EUR	iP	01 23 03
	ipP	23 41
TUC	eP	01 23 12
TUC-T	eP	01 23 12
June 16		
BH	iP	02 09 07
	iS	09 37
HH	eP	02 13 27
June 16		
EUR	eP	03 53 42
HH	iP	03 53 22
June 16		
HH	e(P)	04 28 46
June 16		
COL	eP	07 26 22
EUR	iP	07 26 38
HH	e(P)	07 26 55
TUC	eP	07 26 45
TUC-T	eP	07 26 46
June 16		
BC	eP	08 25 14
BOZ	eP	08 25 48
COL	iP	08 25 32
	eS	35 51
	eScS	36 34
	e	40 08
	eL	50 18
EUR	eP	08 25 13
HONO	eP	08 20 55
	eS	27 14
	eL	30 18
HH	eP	08 25 41
RC	eP	08 26 12
SLC	eP	08 25 34
TUC	eP	08 25 16
	e	25 20
	eL	49 30
TUC-T	eP	08 25 17
June 16		
EUR	iP	10 04 07
June 16		
COL	eP	14 14 28
June 16		
COL	iP	14 42 37
	epP	43 05
COLU	iP	14 36 54
EUR	iP	14 38 57
HH	eP	14 39 40
	epP	40 00
	iPP	41 38
RC	eP	14 38 37
SLC	eP	14 38 45
	e(pP)	39 15
SJ	eP	14 37 12
TUC	eP	14 37 53
TUC-T	iP	14 37 52
	epP	38 20
	eL	44 39
June 16		
COL	e(P)	14 47 10
EUR	eP	14 45 03
HH	eP	14 45 23
June 16		
COL	eP	15 10 05
EUR	iP	15 06 52
HH	eP	15 07 31
RC	eP	15 06 51
TUC	eP	15 05 51
TUC-T	iP	15 05 51
	e	06 05
June 16		
HH	i(P)	17 19 24
June 16		
COL	iP	19 04 38
	i	06 50
EUR	iP	19 04 17
HH	eP	19 04 43
SLC	eP	19 04 33
TUC	eP	19 04 17
TUC-T	eP	19 04 17

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Date and Station		Phase	(GCT) h m s
TUC-T		e	19 05 31
		e	06 31
		e	30 01
June 16			
BUT		eP	19 29 29
COL		e(P)	19 27 24
EUR		eP	19 29 29
HH		eP	19 29 20
June 16			
COL		iP	23 50 38
		i	57 16
June 17			
BC		eP	00 38 45
BUT		iP	00 38 13
COL		iP	00 35 12
EUR		iP	00 38 26
HH		iP	00 37 58
RC		eP	00 38 48
TUC		eP	00 39 12
TUC-T		iP	00 39 12
June 17			
RC		eP	02 32 16
June 17			
EUR		eP	04 34 41
June 17			
COL		iP	05 38 05
EUR		eP	05 36 16
TUC		eP	05 35 46
TUC-T		iP	05 35 47
June 17			
COLU		e(P)	06 58 07
June 17			
COL		eP	12 34 51
June 17			
EUR		eP	13 11 14
TUC		eP	13 10 06
TUC-T		eP	13 10 04
June 17			
COL		eP	15 17 24
		i	17 46
EUR		iP	15 19 52
HH		eP	15 19 37
		e	19 56
TUC-T		eP	15 20 28
		e	20 47
June 17			
COL		iP	17 07 02
June 17			
BC		eP	19 19 20
		epP	19 41
BOZ		eP	19 19 11
		e	19 22
		e	20 07
BUT		iP	19 19 06
COL		iP	19 16 45
EUR		iP	19 19 09
HONO		eP	19 16 12
		i	16 22
HH		iP	19 18 55
		ipP	19 08
		eS	29 08
		ePKKP	37 33
		eP'P'	45 36
KIP		iP	19 16 12
		i	16 22
SLC		eP	19 19 20
		e	20 11
TUC		iP	19 19 44
TUC-T		iP	19 19 44
UK		eP	19 18 42
		epP	18 57
June 17			
COL		iP	21 44 00
EUR		eP	21 47 27
HH		eP	21 46 56
RC		eP	21 48 20
TUC-T		eP	21 48 31
June 17			
HH		iP	23 52 56
June 18			
BC		eP	01 25 09
BOZ		eP	01 23 57
		e	24 42
BUT		eP	01 23 59
		e	24 21
COL		eP	01 22 57
COLU		eP	01 23 56
EUR		eP	01 24 49
HH		eP	01 23 45
RC		eP	01 23 50
		ePcP	25 19
SLC		eP	01 24 32
		e	25 05
TUC		e(P)	01 25 23
		e	25 27
		eL	48 22
TUC-T		iP	01 25 26
		ePP	27 30
UK		eP	01 25 08
June 18			
BOZ		eP	02 32 22
BUT		eP	02 32 25
COL		iP	02 31 21
EUR		eP	02 33 15
HH		eP	02 32 11
SLC		eP	02 33 01
TUC		eP	02 33 49
TUC-T		eP	02 33 48
June 18			
EUR		eP	03 41 53
RC		eP	03 42 47
June 18			
BOZ		e(P)	04 42 57
		e	43 08
COL		iP	04 41 56
COLU		eP	04 42 57
EUR		eP	04 43 50
HH		eP	04 42 44
SLC		e(P)	04 43 31
TUC		eP	04 44 23
TUC-T		iP	04 44 23
June 18			
COL		eP	05 41 15
June 18			
BH		eP	06 42 30
		eS	52 30
BC		eP	06 46 37
BUT		eP	06 47 43
COL		eP	06 51 02
COLU		eP	06 45 51
		e	46 07
EUR		iP	06 46 46
		i	47 06
HH		eP	06 47 56
RC		eP	06 47 09
TUC		eP	06 45 52
		eL	53 56
		i	55 28
TUC-T		iP	06 45 52
June 18			
COL		iP	07 59 04
EUR		iP	07 55 08
HH		eP	07 56 00
TUC		eP	07 53 55
TUC-T		iP	07 53 55
June 18			
COL		iP	08 56 44
		i	57 39
June 18			
EUR		eP	09 16 50
June 18			
COL		iP	10 42 31
June 18			
COL		iP	11 34 18
June 18			
COL		iP	11 56 41
HH		eP	11 55 53
June 18			
COL		iP	13 57 50
EUR		iP	14 01 20
HH		iP	14 00 48
TUC		eP	14 02 20
TUC-T		eP	14 02 20
June 18			
EUR		iP	15 16 27
		i	16 42
		i	17 11

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Date and Station		Phase (GCT)
		h m s
COL	iP	15 12 48
	i	13 01
June 18		
BOZ	eP	16 34 10
EUR	eP	16 33 51
HH	iP	16 34 07
RC	eP	16 34 20
SLC	iP	16 34 02
	e	34 09
SJ	eP	16 34 12
TUC-T	eP	16 33 57
June 18		
BC	eP	19 42 23
	e	43 05
EUR	eP	19 37 50
June 18		
COL	iP	19 53 12
EUR	eP	19 54 06
HH	e(P)	19 53 00
June 18		
EUR	eP	20 23 04
June 18		
TUC-T	eP	21 14 17
June 19		
EUR	eP	01 45 26
June 19		
EUR	eP	02 18 49
June 19		
COL	eP	03 23 53
	i	24 09
	i	24 19
	iS	25 49
	iL	26 05
EUR	eP	03 27 07
HH	e(P)	03 25 56
	eL	30 57
SIT	eP	03 22 33
	eS	22 58
	eL	23 01
June 19		
BC	eP	04 07 13
	e	07 28
COL	iP	04 11 21
	i	12 00
COLU	eP	04 05 52
	e	06 13

Date and Station		Phase (GCT)
		h m s
EUR	iP	04 07 30
HH	eP	04 08 18
	iPcP	10 33
RC	e(P)	04 08 13
TUC	eP	04 06 19
TUC-T	iP	04 06 19
	i	06 44
June 19		
TUC	eP	04 09 58
TUC-T	iP	04 09 58
June 19		
BC	eP	05 28 31
	e	28 39
BOZ	eP	05 28 01
	e	28 08
	ePcP	29 16
	eP'P'	57 44
BUT	iP	05 27 53
	e	28 07
COL	iP	05 24 34
	iS	29 45
	i	30 11
	eL	32 06
COLU	iP	05 30 25
	e	30 37
EUR	iP	05 28 10
	i	28 46
	eP'P'	57 23
HONO	e(P)	05 26 28
	iS	33 10
	i	34 03
	iL	36 40
HH	iP	05 27 37
	e(S)	35 20
	e(P'P')	56 52
KIP	eP	05 26 26
	eT	06 15 03
	iT	15 27
RC	iP	05 28 35
	e(S)	37 16
	e	37 38
	eP'P'	57 28
SLC	eP	05 28 21
	e	28 36
SIT	iP	05 25 40
TUC	iP	05 29 03
	eS	38 21
	eL	45 40
	eP'P'	57 21

Date and Station		Phase (GCT)
		h m s
TUC-T	iP	05 29 03
	iP'P'	57 20
UK	iP	05 27 42
WASH	iP	05 30 13
	i	30 27
	ePP	33 18
	eS	40 15
	e(SS)	46 16
	eL	06 00 19
June 19		
COL	iP	07 58 08
EUR	iP	07 58 35
HH	eP	07 58 52
TUC-T	eP	07 58 48
June 19		
COL	iP	08 32 20
June 19		
COL	iP	08 44 37
EUR	eP	08 48 07
June 19		
COL	iP	09 06 42
EUR	eP	09 06 17
June 19		
BC	eP	09 54 08
	e	54 17
	eL	10 01 32
BUT	eP	09 55 16
COL	iP	09 58 49
EUR	iP	09 54 39
HH	iP	09 55 39
RC	eP	09 54 43
SLC	eP	09 54 33
TUC	eP	09 53 16
	eL	58 45
TUC-T	iP	09 53 15
	i	53 23
	eL	58 40
June 19		
COL	eP	11 24 03
EUR	iP	11 24 18
	i	24 55
TUC-T	e(P)	11 24 58
	eP	25 03
June 19		
EUR	iP	11 55 08

Date and Station		Phase (GCT)
		h m s
RC	eP	11 56 50
June 19		
EUR	iP	13 52 59
June 19		
COL	iP	13 57 00
EUR	eP	14 02 29
HH	eP	14 02 06
June 19		
HH	e(P)	17 27 10
June 19		
COLU	eP'	18 21 57
	e	22 08
EUR	eP'	18 21 25
HH	eP'	18 21 42
WASH	eP'	18 21 13
June 19		
COL	eP	20 44 16
EUR	eP	20 40 21
June 19		
COL	iP	22 06 44
EUR	eP	22 06 10
TUC-T	eP	22 06 09
June 19		
TUC-T	eP	23 17 05
June 19		
EUR	eP	23 58 42
June 20		
EUR	eP	00 20 11
June 20		
BC	eP	00 59 48
BOZ	eP	01 00 28
BUT	eP	01 00 24
COL	iP	01 00 24
	eS	10 45
	eL	24 54
EUR	iP	00 59 52
HH	eP	01 00 24
SLC	eP	01 00 12
TUC	eP	00 59 51
	eL	01 22 36
TUC-T	eP	00 59 51

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

Date and Station		Phase (GCT)
		h m s
BOZ	e	05 22 48
	e	23 11
BUT	eP	05 22 18
	e	23 03
	e	24 10
COL	iP	05 19 30
	eS	27 08
	eScS	29 16
	eL	31 43
EUR	eP	05 22 43
	i	23 17
HH	eP	05 22 04
RC	eP	05 22 38
SLC	eP	05 22 45
TUC	eP	05 23 25
TUC-T	eP	05 23 25
June 23		
EUR	eP	07 23 50
June 23		
BC	eP	07 32 44
COL	eP	07 31 47
	i	32 28
EUR	eP	07 32 02
TUC	eP	07 32 54
TUC-T	iP	07 32 54
June 23		
EUR	iP	07 32 45
	i	33 05
June 23		
EUR	eP	07 42 25
June 23		
RC	e(P)	15 53 48
	e	54 16
June 23		
COL	iP	16 05 48
	i	06 00
EUR	eP	16 06 49
RC	e(P)	16 04 51
June 23		
COL	eP	17 21 25
June 23		
COL	iP	19 05 00
	ipP	07 12
EUR	iP	19 04 40
	epP	06 50

Date and Station		Phase (GCT)
		h m s
TUC	iP	19 04 41
June 23		
BC	eP	19 28 50
COL	iP	19 29 19
	ipP	31 44
EUR	eP	19 29 00
	epP	31 07
TUC	eP	19 29 02
June 23		
COLU	eP	19 55 44
June 23		
COL	iP	22 26 49
	i	26 52
June 23		
COL	iP	22 41 54
	i	42 10
EUR	eP	22 42 12
June 24		
BC	eP'	00 28 13
BOZ	eP'	00 28 09
	e	28 24
BUT	iP'	00 28 06
COL	eP	00 23 18
	epP	24 21
	eP'	26 58
COLU	eP'	00 28 50
EUR	eP'	00 28 08
	ePP	30 11
HH	iP'	00 28 01
	ePP	29 48
RC	eP'	00 28 19
	ePP	30 40
	e	32 00
SLC	eP'	00 28 12
June 24		
COL	iP	00 57 59
June 24		
COL	iP	01 17 28
	i	17 44
June 24		
RC	eP	03 43 14
TUC	eP	03 44 03
June 24		
EUR	iP	03 54 53
June 24		
COL	eP	04 09 18

Date and Station		Phase (GCT)
		h m s
EUR	eP	04 07 29
June 24		
BOZ	e(P)	05 01 23
BUT	eP	05 01 34
COL	iP	04 59 23
EUR	eP	05 02 01
HH	iP	05 01 22
RC	eP	05 01 46
June 24		
EUR	eP	05 30 39
June 24		
COL	eP	06 18 32
HH	eP	06 19 08
TUC	e(P)	06 20 06
June 24		
BC	eP	06 49 13
	e	50 56
EUR	eP	06 49 26
RC	e(P)	06 49 31
TUC	eP	06 48 49
	eL	07 12 12
June 24		
COL	eP	06 55 15
June 24		
EUR	eP	07 11 36
June 24		
COL	iP	09 24 36
	i	25 14
June 24		
COL	iP	10 39 25
EUR	iP	10 42 35
HH	iP	10 42 09
RC	eP	10 43 01
June 24		
EUR	eP	14 18 13
June 24		
EUR	eP	16 23 09
June 24		
EUR	eP	19 45 15
June 24		
COL	iP	22 02 43
	i(S)	03 45
	iL	03 50

Date and Station		Phase (GCT)
		h m s
June 25		
COL	iP	01 26 01
June 25		
BUT	eP	02 01 38
COL	iP	01 59 08
EUR	eP	02 01 50
HH	eP	02 01 30
June 25		
BC	eP	02 35 39
COL	iP	02 36 11
EUR	iP	02 35 45
HH	e(P)	02 36 18
TUC	eP	02 35 45
June 25		
COL	iP	05 21 16
EUR	eP	05 20 55
TUC	eP	05 20 56
June 25		
EUR	eP	05 53 52
June 25		
EUR	eP	06 27 28
June 25		
EUR	eP	07 16 45
HH	e(P)	07 17 19
TUC	eP	07 16 15
June 25		
COL	iP	09 22 10
June 25		
COL	iP	09 40 57
	e	43 07
EUR	iP	09 40 39
HH	e(P)	09 41 06
SLC	eP	09 40 55
TUC	iP	09 40 39
	e(P'P')	10 06 52
June 25		
BH	iP'	09 55 58
BC	eP	09 50 25
	eP'	53 58
BOZ	eP	09 50 39
	ePP	55 01

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Date and Station		Phase	(GCT) h m s
BUT		eP	09 50 30
		eP'	54 08
		ePP	55 02
COL		iP	09 49 01
		i	49 08
		e(PP)	52 12
		ePP	52 44
		eS	59 20
		iS	59 36
		e(PPS)	10 01 45
		eSS	05 41
		e	10 14
		e(P'P')	15 33
		eL	18 02
COLU		eP'	09 55 42
EUR		iP	09 50 20
		eP'	53 26
		ePKKP	10 06 43
		i	07 19
		eP'P'	14 59
HONO		eP	09 46 49
		iP	46 52
		iS	55 07
		i(ScS)	57 01
		iSS	59 04
		eL	10 02 06
HH		eP	09 50 26
		eP'	53 30
		ePP	54 26
		ePKKP	10 06 43
		eP'P'	15 03
KIP		eP	09 46 49
		iP	46 52
		i	47 46
RC		e(P)	09 51 35
		eP'	55 26
		i	55 36
		ePS	10 06 23
SLC		eP	09 50 38
		eP'	54 50
SJ		eP'	09 56 18
		i	57 07
SIT		eP	09 49 31
TUC		e(P)	09 51 15
		iP'	55 02
		eS	10 04 25
		eL	19 14
UK		eP	09 49 44
		e	50 01
WASH		iP'	09 55 49
		iPP	57 47
		e	59 41
		eSKS	10 02 46
		ePS	07 58

Date and Station		Phase	(GCT) h m s
June 25			
BC		eP	12 57 26
COL		iP	12 56 21
EUR		iP	12 57 23
		ePKKP	13 14 09
HH		eP	12 57 29
RC		eP	12 58 05
TUC		eP	12 57 43
June 25			
EUR		eP	14 58 43
June 25			
EUR		eP	16 05 01
June 25			
COL		iP	21 16 31
June 25			
COL		iP	23 00 34
EUR		iP	23 01 36
June 25			
BC		eP	23 13 43
EUR		iP	23 14 00
TUC		e(P)	23 13 19
TUC-T		iP	23 13 19
June 25			
BC		eP	23 33 55
BOZ		eP	23 33 23
BUT		eP	23 33 14
COL		iP	23 29 56
EUR		iP	23 33 35
		epP	35 05
		eP'P'	00 00 55
HH		iP	23 32 59
RC		iP	23 33 54
		e	34 06
SLC		eP	23 33 42
TUC		iP	23 34 26
TUC-T		iP	23 34 26
June 25			
BC		eP	23 55 35
BOZ		eP	23 55 08
COL		eP	23 51 43
		iP	51 56

Date and Station		Phase	(GCT) h m s
COL		e(S)	23 55 33
		eL	55 45
COLU		eP	23 58 07
EUR		iP	23 55 13
		i	57 01
HH		iP	23 54 41
		i	54 51
		i	55 00
		i	56 49
RC		iP	23 55 50
SJ		iP	00 00 01
TUC		iP	23 56 14
		i	56 24
TUC-T		iP	23 56 13
June 26			
SLC		iP	01 16 09
		i	16 26
June 26			
EUR		iP	01 29 41
June 26			
COL		iP	02 01 26
		i	01 50
June 26			
TUC-T		eP	04 08 18
June 26			
EUR		iP	04 11 52
TUC		eP	04 11 56
		e	12 23
TUC-T		eP	04 11 56
June 26			
BC		iP	04 48 16
		epP	48 43
		eS	56 26
		eP'P'	05 17 51
		e	18 25
BOZ		iP	04 47 42
		epP	49 08
		e(PP)	50 07
BUT		iP	04 47 33
		e(pP)	49 06
		e	52 24
COL		iP	04 44 05
		iPP	45 14
		iS	48 36
		i	50 00
		iL	51 00
COLU		iP	04 50 09
		ipP	50 41
		eS	59 49

Date and Station		Phase	(GCT) h m s
EUR		iP	04 47 55
		ipP	48 24
		eP'P'	05 17 41
		iP'P'	18 15
HONO		iP	04 46 35
		ePPP	48 59
		eS	52 50
		iL	54 10
		eT	05 34 56
		i	35 19
HH		iP	04 47 16
		iPcP	48 32
		iPP	49 04
		i	52 15
		eScS	56 53
KIP		iP	04 46 34
		iPPP	48 57
		eT	05 34 38
		iT	36 10
RC		iP	04 48 18
		ipP	48 47
		ePPP	52 03
		eS	56 18
		eScS	57 57
		eP'P'	05 17 45
SLC		iP	04 48 03
		ePcP	49 02
		eP'P'	05 02 53
SIT		iP	04 45 14
		ipP	45 41
		ePP	46 38
		eS	50 44
TUC		iP	04 48 49
		epP	49 14
		ipP	49 21
		ePP	51 24
		eS	57 26
		eL	05 08 41
		iP'P'	17 39
TUC-T		iP	04 48 49
		e	52 53
		iP'P'	05 17 38
UK		iP	04 47 27
WASH		iP	04 49 53
		ipP	50 24
		ePP	52 50
		eS	59 23
June 26			
EUR		eP	05 03 01
June 26			
COL		iP	05 16 26
EUR		eP	05 16 54
June 26			
BOZ		eP	07 53 39

Date and Station		Phase (GCT)
		h m s
BUT	eP	07 52 33
COL	iP	07 50 13
EUR	iP	07 52 42
HH	iP	07 52 23
June 26		
SJ	eP	08 15 17
June 26		
EUR	iP	13 28 57
	i	29 04
HH	e(P)	13 31 30
TUC	eP	13 29 17
TUC-T	eP	13 29 16
June 26		
COL	iP	16 00 49
EUR	eP	16 04 04
HH	eP	16 03 36
June 26		
COL	iP	18 09 36
EUR	iP	18 13 07
HH	eP	18 12 34
TUC	eP	18 14 08
TUC-T	eP	18 14 07
June 26		
EUR	eP	19 14 04
June 26		
EUR	eP	19 33 14
June 26		
BOZ	eP	20 04 49
COL	eP	20 01 19
EUR	eP	20 04 49
HH	eP	20 04 17
June 26		
COL	iP	23 02 04
	iS	02 17
	iL	02 26
June 26		
BC	eP	23 41 57
BOZ	eP	23 41 42
BUT	eP	23 41 35
COL	eP	23 39 00
	iPPP	42 03
	eS	46 36

Date and Station		Phase (GCT)
		h m s
COL	eL	23 52 48
EUR	iP	23 41 43
HH	iP	23 41 24
	i	41 39
RC	eP	23 42 11
SLC	eP	23 41 53
	e	42 08
TUC	e(P)	23 42 23
	eL	00 10 50
June 27		
EUR	iP	01 39 00
HH	iP	01 38 41
June 27		
EUR	iP	01 54 38
June 27		
BH	iP	05 46 51
	iS	48 43
BC	eP	05 51 04
	epP	51 21
	ePcP	54 03
	e(S)	57 25
BOZ	eP	05 51 45
	epP	51 59
	e	52 26
BUT	eP	05 51 52
	ePcP	54 32
	eS	57 45
COL	iP	05 55 09
	ipP	55 26
	e(S)	06 04 21
	eL	16 08
COLU	iP	05 49 25
	epP	49 36
	e	50 55
	eS	53 26
EUR	eP	05 51 28
	ipP	51 45
	i(PcP)	53 06
HONO	eP	05 55 19
	ipP	55 35
HH	eP	05 52 12
	ipP	52 28
	iPcP	54 28
	iS	57 54
KIP	eP	05 55 17
	epP	55 33
RC	iP	05 51 09
	ipP	51 25

Date and Station		Phase (GCT)
		h m s
SLC	eP	05 51 17
	epP	51 32
	e	52 16
	eS	57 30
SJ	iP	05 49 26
	epP	49 42
TUC	eP	05 50 23
	epP	50 34
	e(S)	56 04
	eL	58 34
TUC-T	eP	05 50 21
	eL	59 06
WASH	iP	05 50 15
	ipP	50 32
	iPP	50 56
	eS	54 26
June 27		
EUR	iP	05 57 35
June 27		
EUR	eP	07 22 31
June 27		
BUT	eP	09 13 49
EUR	eP	09 13 54
HH	eP	09 13 38
June 27		
EUR	eP	12 34 53
June 27		
EUR	eP	13 00 53
June 27		
COL	iP	17 40 22
EUR	iP	17 41 38
HH	iP	17 41 44
June 27		
COL	iP	18 23 50
June 27		
COL	iP	18 40 29
EUR	iP	18 41 52
HH	iP	18 41 56
RC	eP	18 42 40
TUC-T	eP	18 42 20
June 27		
EUR	eP	18 49 48
June 27		
COL	iP	22 14 34
June 28		
COL	iP	02 30 06

Date and Station		Phase (GCT)
		h m s
EUR	iP	02 33 28
HH	eP	02 32 58
RC	eP	02 33 53
TUC	eP	02 34 26
TUC-T	e(P)	02 34 21
June 28		
EUR	iP	05 24 29
TUC	iP	05 24 29
TUC-T	iP	05 24 30
	e	26 32
June 28		
COL	eP	05 33 16
EUR	eP	05 36 38
June 28		
BC	eP	08 44 51
BUT	eP	08 45 26
COL	iP	08 45 31
EUR	iP	08 45 02
RC	eP	08 45 51
TUC	eP	08 44 54
	i	44 57
	eL	09 21 20
TUC-T	eP	08 44 54
	i	44 59
June 28		
COL	iP	10 12 26
	i(S)	13 42
	iL	13 55
June 28		
EUR	eP	11 48 45
TUC	eP	11 49 22
TUC-T	eP	11 49 11
June 28		
COL	eP	15 25 03
EUR	iP	15 28 57
June 28		
COL	iP	16 28 54
June 28		
BC	eP	19 41 59
COL	iP	19 40 30
EUR	iP	19 41 54

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Date and Station		Phase	(GCT) h m s
HH		iP	19 41 57
RC		iP	19 42 38
SLC		eP	19 42 10
TUC		iP	19 42 20
TUC-T		iP	19 42 20
June 29			
EUR		eP	00 01 09
June 29			
BH		iP	03 31 07
		iS	35 27
BC		eP	03 36 16
		epP	36 59
		ePP	39 46
BUT		iP	03 36 53
		epP	37 36
		e	40 42
COL		iP	03 39 07
		ipP	39 52
		i	41 08
		i	41 25
COLU		iP	03 34 27
		e	35 37
		e	38 52
EUR		iP	03 36 36
		i	36 59
		iScP	40 14
		eP'P'	04 04 50
HH		iP	03 37 06
		ipP	37 49
		eScP	41 04
RC		iP	03 36 18
		ipP	37 00
		eScS	45 04
SLC		eP	03 36 27
		epP	37 11
SJ		iP	03 32 16
		ePP	33 22
		i	33 39
		eS	37 28
TUC		iP	03 35 43
		epP	36 23
		e	36 40
		iScP	39 01
		eScS	43 42
		eL	46 34
TUC-T		iP	03 35 43
		epP	36 25
		e	36 42
		iScP	39 02
June 29			
COLU		eP	04 20 11

Date and Station		Phase	(GCT) h m s
June 29			
BC		eP	08 38 37
		e	39 33
EUR		iP	08 37 47
TUC		e(P)	08 42 24
TUC-T		e(P)	08 42 16
June 29			
HH		iP	09 09 25
		iS	09 47
		iL	09 49
June 29			
BC		eP	09 26 27
		e	26 36
BOZ		eP	09 27 08
		e	27 46
BUT		eP	09 27 04
		e	27 14
COL		iP	09 27 08
EUR		iP	09 26 33
HH		eP	09 27 05
RC		eP	09 27 29
SLC		eP	09 26 52
		e	27 02
		e	27 27
TUC		iP	09 26 32
		eL	52 36
TUC-T		iP	09 26 32
June 29			
COL		iP	10 38 27
June 29			
BC		eP	12 52 31
BOZ		eP	12 53 12
BUT		eP	12 53 09
COL		iP	12 53 12
		i	53 43
EUR		iP	12 52 38
HH		iP	12 53 09
		ePP	56 30
RC		eP	12 53 32
SLC		eP	12 52 56
		e	53 10
TUC		iP	12 52 36
TUC-T		iP	12 52 37

Date and Station		Phase	(GCT) h m s
June 29			
COL		iP	16 19 13
June 29			
SLC		eP	17 58 34
		e	58 54
June 29			
BOZ		e(P)	19 08 49
COL		iP	19 09 47
EUR		iP	19 08 43
HH		eP	19 07 55
RC		eP	19 09 49
TUC		eP	19 10 23
June 29			
EUR		eP	20 49 56
June 29			
COL		iP	23 27 35
June 30			
COL		eP	01 49 18
June 30			
EUR		eP	02 23 17
June 30			
COL		eP	02 22 23
EUR		eP	02 26 09
June 30			
COL		iP	05 20 56
June 30			
BUT		iP	08 55 35
		e	55 52
		e	56 38
COL		iP	08 54 36
		i	55 04
		eS	09 04 25
		e	05 13
		eP'P'	21 25
COLU		iP	08 55 00
EUR		iP	08 56 06
		iPP	59 06
		e(PKKP)	09 12 45
		iPKKP	13 16
HH		iP	08 55 27
		ePP	58 59
		e(S)	09 05 44
RC		iP	08 55 23
		eS	09 05 37
		iS	05 59
SJ		iP	08 54 54
TUC		iP	08 56 24

Date and Station		Phase	(GCT) h m s
TUC		e	08 59 02
		iS	09 06 54
		iPKKP	12 58
WASH		iP	08 54 30
		eS	09 04 16
June 30			
HH		eP	09 14 51
June 30			
COL		iP	11 32 40
June 30			
BC		eP	14 10 13
COL		iP	14 07 53
EUR		eP	14 09 47
HH		eP	14 08 31
		i	09 16
		iPP	09 23
		e(S)	14 32
		eL	14 54
RC		eP	14 08 45
		eL	19 07
TUC		eP	14 10 33
		e	10 42
June 30			
BC		eP	18 38 41
		e	39 21
BUT		iP	18 38 20
		i	38 40
COL		iP	18 35 45
		e	37 15
		iS	43 20
		eScS	45 15
		eSS	47 08
		eL	49 20
EUR		iP	18 38 26
HH		iP	18 38 09
HONO		iP	18 35 46
		iS	43 36
		i	44 12
		iSS	47 21
		eL	48 52
RC		iP	18 38 55
SLC		eP	18 38 39
		e	39 14
SIT		eP	18 36 33
TUC		eP	18 39 05
		eL	19 05 21
TUC-T		eP	18 39 05

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Date and Station		Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
		h m s		h m s		h m s		h m s
June 30								
BUT	eP	21 02 59						
COL	eP	21 00 25						
EUR	eP	21 03 06						
HH	eP	21 02 48						
RC	eP	21 03 35						
June 30								
EUR	eP	21 54 11						
HH	iP	21 54 40						

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
BUT		SIT					
June		June					
3	02.0	9	23.1				
4	06.7	17	01.9				
13	21.2						
14	00.6	TUC					
15	06.9	June					
16	20.7	2	03.1				
17	12.7		03.4				
			06.6				
COL		3	04.8				
June			06.8				
4	14.8 (Felt)	5	03.1				
5	12.2		11.7				
	15.0	7	01.7				
6	17.7	8	10.7				
10	02.1	16	11.6				
	14.9		22.9				
15	20.0	18	02.8				
16	07.6		19.7				
	22.0	21	05.2				
18	07.7		05.6				
20	05.2	22	09.5				
25	16.8	23	08.2				
26	09.2		11.3				
30	17.1	27	23.8				
		28	02.0				
EUR		29	17.3				
June		30	11.3				
1	16.7						
	16.7	UK					
28	16.8	June					
29	21.3	3	21.3				
		6	00.4				
HONO		9	03.6				
June			12.0				
10	18.2	11	16.4				
13	01.9	19	16.6				
14	22.6		18.0				
28	01.5	20	16.6				
	20.3	22	06.4				
KIP							
June							
14	00.1						
25	01.4						
26	22.2						
28	01.5						
RC							
June							
13	07.3						
SLC							
June							
12	16.1						
27	01.5						
SJ							
June							
10	00.1						
	11.0						
23	10.4						
27	02.0						
28	10.7						