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COAST & GEODETIC SURVEY
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SEISMOLOGICAL BULLETIN

October, 1960

MSI - 238

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U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1960

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

**Balboa Heights, C. Z. (BHP)
The Panama Canal Co.
*Boulder City, Nev. (BCN)
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. (CSC)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
*Flaming Gorge, Utah (FGU)
Bureau of Reclamation
*Glen Canyon, Ariz. (GCA)
Bureau of Reclamation
Guam, M. I. (GUA)
Honolulu, Hawaii (HON)
*Hungry Horse, Mont. (HHM)
Bureau of Reclamation
Kipapa, Hawaii (KIP)
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Philadelphia, Pa. (PHI)
The Franklin Institute
**Rapid City, S. D. (RCD)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJP)
Sitka, Alaska (SIT)
*Thule, Greenland (THU)
U. S. Army Ionosphere Station
Tucson, Ariz. (TUC)
Tucson, Ariz. Telometer (TUT)
Ukiah, Calif. (UKI)
International Latitude Observatory
Washington, D. C. (WAS)

*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, 1959 the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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 earthquake 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.

All coordinates of epicenters, origin times and focal depths have been calculated with the use of an electronic computer. The epicenters quoted in this Bulletin are those previously reported on the Preliminary Determination of epicenter cards with some refinement and minor additions.

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.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Oct	h m s	°	°	
1	03 00 47.0	23.5 N.	94.6 E.	Burma. Felt at Chittagong, East Pakistan. h about 28 km.
1	05 30 38.9	35.6 N.	26.2 E.	Near Crete. Felt. h about 36 km.
1	06 27 23.5	6.5 N.	124.8 E.	Mindanao, Philippine Islands. h about 478 km.
1	09 28 56.3	19.9 S.	69.6 W.	Northern Peru. h about 158 km.
1	11 44 03.2	4.6 S.	153.0 E.	New Ireland region. Felt at Rabaul. h about 100 km.
1	15 57 49.0	32.3 N.	137.6 E.	South of Honshu, Japan. h about 278 km.
1	16 10 55.6	51.6 N.	172.4 W.	Fox Islands, Aleautian Islands. h about 46 km. Mag. 6½.
1	23 56 25.5	10.4 S.	161.5 E.	Solomon Islands. h about 108 km.
2	02 38 16.9	36.4 N.	141.3 E.	Honshu, Japan. Felt. h about 52 km.
2	04 37 48.3	60.7 S.	24.4 W.	Sandwich Islands. h about 66 km.
2	07 08 15.9	39.2 S.	91.6 W.	Southeast of Easter Island. h about 107 km.
2	10 18 55.8	11.4 S.	165.7 E.	Santa Cruz Islands. h about 100 km.
2	11 53 44.1	38.9 S.	91.5 W.	Southeast of Easter Island. h about 84 km.
2	16 32 06.1	3.2 N.	127.7 E.	Molucca Passage. h about 31 km.
2	18 08 10.5	18.5 N.	94.9 E.	Burma. h about 95 km.
3	00 49 18.9	30.0 N.	68.2 E.	West Pakistan. Felt at Quetta and Sibi. h about 74 km.
3	02 33 26.4	36.4 N.	140.7 E.	Honshu, Japan. Felt. h about 59 km.
3	05 10 37.3	38.7 S.	75.3 W.	Near coast of southern Chile. h about 43 km.
3	10 12 07.8	3.4 S.	137.8 E.	Western New Guinea. h about 29 km.
3	17 10 56.2	8.2 S.	152.8 E.	D'Entrecasteaux Islands. h about 100 km.
3	19 50 48.8	5.8 S.	103.0 E.	Off coast of Sumatra. h about 51 km.
3	22 10 52.5	22.8 S.	172.3 E.	Loyalty Islands region. h about 243 km.
4	09 51 16.1	7.6 S.	155.3 E.	Solomon Islands. h about 134 km.
4	10 45 44.7	36.4 N.	137.6 E.	Honshu, Japan. Felt. h about 240 km.
6	06 08 18.8	27.5 S.	179.8 E.	Kermadec Islands region. h about 506 km.
6	16 16 35.3	38.5 S.	74.9 W.	Near coast of southern Chile. h about 27 km.
6	16 19 12.0	52.8 N.	107.9 W.	Lake Baikal region. h about 24 km.
6	16 45 02.3	5.2 S.	103.1 E.	Off coast of Sumatra. h about 81 km.
6	18 04 57.4	29.8 N.	138.6 E.	South of Honshu, Japan. h about 527 km.
6	19 55 42.2	58.4 N.	31.6 W.	North Atlantic Ocean. h about 63 km.
7	03 15 34.9	58.3 N.	31.9 W.	North Atlantic Ocean. h about 71 km. Mag. 4½-4¾ (Pal).
7	11 09 13.9	20.8 S.	178.3 W.	Fiji Islands region. h about 626 km.
7	15 18 30.8	7.5 S.	130.7 E.	Banda Sea. h about 45 km. Mag. 6½-6¾ (Brk), 6¾-7 (Pal).
7	19 07 15.1	11.5 N.	72.9 W.	Near north coast of Colombia. h about 92 km.
7	20 01 20.1	20.3 S.	114.1 W.	Easter Island region. h about 62 km. Mag. 5¼-5½ (Pal).
8	01 51 52.2	16.9 N.	97.8 W.	Oaxaca, Mexico. Felt. h about 29 km. Mag. 4¾-5 (Pal).
8	03 53 03.2	40.0 N.	129.9 E.	Sea of Japan. Felt on Hokkaido and Honshu. h about 651 km. Mag. 6½-6¾.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Oct.	h m s	°	°	
8	13 53 47.0	41.4 N.	19.9 E.	Albania. h about 37 km.
8	17 34 00.7	36.1 N.	176.9 E.	Near coast of North Island, New Zealand. h about 176 km.
8	20 40 06.6	8.0 N.	92.9 E.	Nicobar Islands. h about 84 km.
9	01 37 19.3	13.5 N.	144.3 E.	Mariana Islands. Felt on Guam. h about 153 km.
9	09 51 19.1	15.2 S.	174.0 W.	Samoa Islands region. Felt at Apia. h about 129 km.
9	13 07 22.2	40.0 N.	129.7 E.	Sea of Japan. h about 623 km.
9	17 46 40.7	39.6 N.	142.3 E.	Near east coast of Honshu, Japan. h about 66 km.
10	16 16 00.3	47.3 N.	153.1 E.	Kurile Islands. h about 38 km.
10	21 44 46.2	8.1 S.	112.8 E.	Near southeast coast of Java. Felt. h about 24 km.
11	04 45 59.8	12.3 S.	166.5 E.	Santa Cruz Islands region. h about 24 km.
11	08 05 30.5	38.3 N.	107.6 W.	Western Colorado. Slight damage. h about 49 km. Mag. 5½ (Brk), 4¾-5 (Pal).
11	18 26 28.2	16.1 S.	67.0 E.	Mascarene Islands region. h about 25 km.
12	00 22 02.1	41.1 N.	140.8 E.	Near north coast of Honshu, Japan. h about 100 km.
12	09 11 16.4	15.2 S.	173.2 W.	Samoa Islands region. Felt at Apia. h about 25 km.
12	09 56 08.2	2.2 S.	140.5 E.	Near north coast of New Guinea. h about 19 km.
12	10 36 36.4	37.0 N.	20.0 E.	Ionian Islands. Felt on Zante. h about 25 km.
12	17 12 24.7	6.9 S.	130.1 E.	Banda Sea. h about 25 km.
12	18 29 35.1	6.2 S.	148.6 E.	New Britain region. h about 119 km.
12	22 50 32.6	6.0 S.	154.3 E.	Solomon Islands region. h about 100 km.
13	02 21 12.7	45.4 N.	25.8 E.	Romania. h about 63 km.
13	05 59 06.8	38.0 S.	50.1 E.	North of Crozet Islands. h about 34 km.
13	14 52 34.7	55.0 N.	161.2 E.	Kamchatka. h about 35 km. Mag 6¾.
13	16 45 56.2	20.9 N.	144.8 E.	Mariana Islands region. h about 25 km.
13	18 40 30.3	3.9 S.	152.4 E.	New Ireland region. h about 213 km.
14	00 56 43.0	33.2 S.	111.3 W.	About 450 miles south of Easter Island. h about 25 km.
14	00 58 05.0	10.2 N.	125.8 E.	Near coast of Leyte, Philippine Islands. h about 17 km.
14	11 33 14.0	52.3 N.	166.1 W.	Fox Islands, Aleutian Islands. h about 64 km.
14	12 16 31.8	4.8 S.	103.1 E.	Near coast of Sumatra. h about 173 km.
14	13 12 07.9	60.0 N.	136.4 W.	Southeastern Alaska. Felt at Juneau, Yakutat and Whitehorse, Yukon, Canada. h about 32 km.
14	15 28 39.0	4.9 N.	125.5 E.	Near south coast of Mindanao, Philippine Islands. h about 36 km.
14	17 48 27.7	38.9 S.	73.5 W.	Off coast of Chile. h about 19 km. Mag. 5¼-5½ (Pal).
14	21 19 11.4	51.9 N.	172.1 W.	Fox Islands, Aleutian Islands. h about 50 km. Mag. 6½.
14	22 55 41.7	55.7 N.	35.2 W.	North Atlantic Ocean. h about 40 km.
15	01 54 09.2	55.8 N.	35.6 W.	North Atlantic Ocean. h about 37 km.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Oct.	h m s	°	°	
15	02 53 34.3	11.0 S.	162.9 E.	Solomon Islands region. h about 35 km.
15	11 30 05.7	23.1 N.	123.5 E.	Off east coast of Formosa. h about 110 km.
15	12 12 06.7	7.4 S.	157.2 E.	Solomon Islands. h about 416 km.
16	01 35 57.4	53.2 N.	172.1 E.	Near Islands, Aleutian Islands. h about 97 km.
16	04 53 59.2	23.1 S.	179.3 E.	South of Fiji Islands. h about 565 km.
16	09 34 44.7	14.0 N.	91.2 W.	Off coast of Nicaragua. h about 135 km. Mag. 5 (Pal).
16	13 15 34.7	22.3 S.	67.6 W.	Argentina-Bolivia border. h about 80 km.
16	13 27 47.2	36.6 S.	177.2 E.	Near coast of North Island, New Zealand. h about 25 km.
16	17 53 31.2	63.1 N.	151.3 W.	Central Alaska. h about 125 km.
16	19 20 43.6	52.2 N.	153.5 E.	Kurile Islands. h about 383 km.
16	22 37 19.1	51.0 N.	179.6 E.	Andreanof Islands, Aleutian Islands. h about 23 km.
17	13 36 35.5	39.8 S.	88.5 W.	Off coast of Chile. h about 60 km.
17	13 45 25.8	21.6 S.	71.2 W.	Near coast of Chile. h about 100 km.
17	15 45 36.9	4.9 N.	78.4 W.	Off west coast of Colombia. h about 83 km. Mag. 4¾ (Pal).
17	15 56 13.9	5.0 N.	78.2 W.	Off west coast of Colombia. h about 79 km.
17	18 05 34.2	31.4 N.	40.9 W.	North Atlantic Ocean. h about 25 km.
17	19 02 15.7	31.5 N.	40.8 W.	North Atlantic Ocean. h about 19 km.
17	22 15 32.0	14.7 N.	92.8 W.	Mexico-Guatemala border. h about 128 km. Mag. 5¾-6 (Pal).
17	22 33 32.3	18.9 S.	177.6 W.	Fiji Islands region. h about 491 km.
18	00 00 56.7	25.5 S.	178.4 E.	South of Fiji Islands. h about 636 km.
18	00 21 52.8	52.5 N.	170.0 W.	Fox Islands, Aleutian Islands. h about 80 km. Mag. 4¾-5 (Pal).
18	06 34 11.0	14.6 N.	92.6 W.	Mexico - Guatemala border. h about 112 km.
18	10 26 52.6	42.3 N.	78.3 E.	Kirghiz S.S.R. h about 75 km.
18	10 52 36.6	18.8 S.	173.3 E.	Tonga Islands region. h about 90 km.
19	06 35 05.3	49.0 N.	156.6 E.	Kurile Islands. h about 69 km.
19	07 09 12.7	20.1 S.	179.9 W.	Fiji Islands region. h about 608 km.
19	10 31 52.1	54.8 S.	129.8 W.	South Pacific Ocean. h about 17 km.
20	06 12 41.2	10.6 N.	70.2 W.	Near coast of Venezuela. Felt. h about 20 km.
20	11 05 57.6	11.1 S.	164.9 E.	Santa Cruz Islands region. h about 37 km. Mag. 6¼.
20	12 23 01.2	29.1 N.	20.8 E.	Libya. h about 25 km.
20	23 40 13.6	45.0 N.	147.8 E.	Kurile Island region. h about 64 km.
21	02 00 07.6	7.4 N.	94.0 E.	Nicobar Islands. h about 133 km.
21	04 18 44.4	7.2 S.	73.8 W.	Peru-Brazil border. h about 100 km.
21	06 25 20.5	7.0 S.	127.6 E.	Banda Sea. h about 134 km.
22	08 22 00.9	10.4 S.	161.2 E.	Solomon Islands region. Felt at Honiara. h about 93 km. Mag. 6¾-7.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Oct.	h m s	°	°	
22	19 17 47.9	45.9 N.	21.2 E.	Hungary-Romania border. h about 25 km.
23	06 32 20.0	31.5 N.	40.7 W.	North Atlantic Ocean. h about 18 km.
23	19 21 15.7	17.9 N.	40.3 E.	Red Sea. h about 25 km.
23	21 48 26.7	11.8 N.	88.7 W.	Off coast of El Salvador. Felt. h about 25 km.
24	05 12 04.4	15.1 S.	167.4 E.	New Hebrides Islands region. h about 145 km.
24	05 47 01.0	36.6 N.	71.1 E.	Hindu Kush region. h about 246 km.
24	17 09 14.4	6.1 S.	150.0 E.	New Britain region. h about 122 km.
25	01 06 20.6	20.1 S.	174.6 W.	Tonga Islands region. h about 64 km.
25	09 36 51.7	6.8 S.	155.1 E.	Solomon Islands. h about 145 km.
25	12 14 54.4	43.6 S.	74.1 W.	Near coast of southern Chile. h about 97 km.
25	18 26 28.5	17.9 S.	167.7 E.	New Hebrides Islands region. h about 116 km.
25	22 01 31.1	19.6 S.	176.0 W.	Tonga Islands region. h about 223 km.
26	01 48 07.1	52.4 N.	160.2 E.	Near east coast of Kamchatka. h about 71 km.
26	06 57 32.1	9.1 S.	121.0 E.	Savoo Sea. h about 132 km.
26	11 26 12.7	8.0 S.	121.4 E.	Flores Island region. h about 217 km.
26	14 47 43.8	32.6 S.	67.7 W.	Mendoza Province, Argentina. h about 134 km.
26	16 36 17.4	23.7 S.	70.3 W.	Near coast of Chile. Felt at Antofagasta. h about 58 km.
26	17 34 29.8	17.9 S.	178.6 W.	Fiji Islands region. h about 589 km.
26	19 51 55.1	1.9 S.	126.0 E.	Spice Islands region. h about 32 km.
26	22 55 21.4	40.3 N.	20.5 E.	Greece. Felt. h about 44 km.
27	00 16 44.2	23.8 S.	70.2 W.	Near coast of Chile. Felt at Antofagasta. h about 39 km.
27	00 26 06.0	23.3 S.	69.7 W.	Near coast of Chile. Felt at Antofagasta. h about 19 km.
27	03 17 46.1	10.4 S.	161.5 E.	Solomon Islands region. h about 116 km.
27	04 32 48.6	27.3 N.	139.8 E.	Bonin Islands region. h about 549 km.
27	05 25 04.9	1.5 N.	90.8 W.	Galapagos Islands region. h about 25 km. Mag. 4¾ (Pal).
27	10 51 34.7	16.6 N.	121.2 E.	Luzon, Philippine Islands. h about 81 km.
27	12 45 40.1	71.7 N.	8.3 W.	Jan Mayen Island region. h about 70 km.
27	14 38 29.2	85.9 N.	80.4 E.	Arctic Ocean, northwest of Zevernaya Zemlya region. h about 25 km.
27	14 46 54.6	6.3 S.	104.3 E.	Near south coast of Sumatra. Felt at Lampung. h about 105 km.
27	15 39 20.3	71.4 N.	8.6 W.	Jan Mayen Island region. h about 42 km.
27	19 42 58.7	6.4 S.	154.7 E.	Solomon Islands region. h about 118 km.
27	22 27 55.1	15.3 S.	175.0 W.	Samoa Islands region. h about 253 km.
28	04 18 41.9	71.4 N.	8.6 W.	Jan Mayen Island region. Felt. h about 48 km. Mag. 6¾.
28	05 27 16.1	71.6 N.	7.7 W.	Jan Mayen Island region. h about 77 km.
28	07 46 38.5	71.4 N.	8.4 W.	Jan Mayen Island region. h about 61 km.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Oct.	h m s	°	°	
28	11 12 58.8	2.2 N.	124.0 E.	Celebes Sea. h about 25 km.
28	12 57 08.9	5.5 S.	146.2 E.	Near north coast of New Guinea. h about 26 km.
28	13 18 14.3	52.2 N.	157.4 E.	Kamchatka. h about 96 km. Mag. 7.
28	22 29 26.6	34.6 N.	141.1 E.	Near east coast of Honshu, Japan. Felt. h about 96 km.
29	00 08 41.4	44.2 N.	11.5 E.	Italy. Slight damage at Scarperia. h about 45 km.
29	01 25 35.5	25.7 N.	67.6 E.	West Pakistan. h about 23 km.
29	04 17 02.1	15.5 N.	46.4 W.	North Atlantic Ocean. h about 38 km. Mag. 4¾ (Pal).
29	09 37 41.6	15.9 S.	172.9 W.	Samoa Islands region. Felt at Apia. h about 99 km. Mag. 5½-5¾ (Pal).
29	11 54 17.4	47.6 N.	27.6 W.	North Atlantic Ocean. h about 25 km.
29	13 21 50.7	20.2 S.	67.7 E.	Southern Bolivia. h about 56 km.
29	17 12 20.5	14.2 N.	120.7 E.	Luzon, Philippine Islands. h about 163 km.
29	20 44 07.4	37.9 N.	30.0 E.	Ionian Islands. h about 39 km.
29	21 44 44.5	12.2 N.	141.2 E.	Mariana Islands. h about 78 km.
29	23 42 12.3	49.7 N.	155.8 E.	Near south coast of Kamchatka. h about 35 km.
30	08 32 39.1	47.7 N.	28.7 W.	North Atlantic Ocean. h about 25 km.
30	12 14 36.1	23.4 S.	70.3 W.	Near coast of Chile. Felt at Antofagasta and Mejillones. h about 76 km. Mag. 6¾.
30	13 11 54.2	23.4 S.	70.6 W.	Near coast of Chile. Felt at Antofagasta and Mejillones. h about 65 km.
30	15 50 50.4	1.1 S.	127.0 E.	Spice Islands. h about 32 km.
30	16 16 24.1	51.4 N.	156.8 E.	Near south coast of Kamchatka. h about 50 km.
30	18 36 34.3	23.4 S.	70.4 W.	Near coast of Chile. Felt at Antofagasta and Mejillones. h about 25 km.
30	21 32 47.7	22.9 S.	68.0 W.	Chile-Bolivia border. Felt. h about 60 km. Mag. 6¾.
30	21 56 20.6	56.6 N.	167.2 W.	Pribilof Islands. h about 70 km.
31	07 03 43.7	30.5 N.	113.5 W.	Gulf of California. h about 25 km.
31	20 50 24.2	24.4 N.	141.8 E.	South of Bonin Islands. h about 25 km.
31	23 44 16.9	54.9 N.	161.7 E.	Near east coast of Kamchatka. h about 36 km.

Date and Station		Phase	h m s
Oct. 1			
COL		eP	00 26 12
Oct. 1			
COL		iP	00 51 35
		i	51 56
Oct. 1			
TUT		e(P)	01 03 35
Oct. 1			
COL		iP	03 12 56
HHM		eP	03 14 51
THU		iP	03 12 55
TUC		eP	03 19 38
TUT		eP	03 19 38
Oct. 1			
FGU		iP	03 19 21
HHM		e(P)	03 18 43
Oct. 1			
GCA		iP	04 56 35
Oct. 1			
COL		iP	05 42 45
FGU		eP	05 43 48
		e	44 12
HHM		iP	05 43 33
		i	43 52
RCD		e(P)	05 43 29
THU		iP	05 40 20
Oct. 1			
HHM		iP	05 51 39
Oct. 1			
COL		iP	06 39 03
Oct. 1			
COL		eP	06 51 48
Oct. 1			
COL		iP	06 59 50
SIT		e(P)	07 02 44
Oct. 1			
FGU		iP	07 57 58
		i	58 31
Oct. 1			
FGU		eP	09 40 01
HHM		iP	09 40 45
		e	41 21
Oct. 1			
COL		iP	11 56 14

Date and Station		Phase	h m s
GUA		eP	11 48 34
Oct. 1			
HHM		iP	13 18 32
		iL	19 13
Oct. 1			
BOZ		eP	13 32 41
Oct. 1			
COL		eP	14 18 22
Oct. 1			
EUR		iP	16 09 38
FGU		iP	16 09 53
HHM		iP	16 09 16
		i	11 22
Oct. 1			
BCN		eP	16 18 58
		e(S)	25 28
BOZ		eP	16 18 26
		iP	18 31
		e(S)	24 45
BUT		eP	16 18 21
		eS	24 23
		eL	28 23
COL		iP	16 15 08
		iS	18 40
CSC		iP	16 21 36
		e(S)	30 28
		e	31 44
EUR		iP	16 18 31
		e(S)	24 08
FGU		eP	16 18 55
		i	19 00
		i	19 21
		iPcP	20 46
		iS	25 07
		eL	28 59
GCA		eP	16 19 05
		i	19 09
		ipP	19 21
		iPPP	21 17
		eL	31 18
GUA		eP	16 19 57
HON		eP	16 17 29
		eS	22 50
		eL	24 10
HHM		iP	16 18 00
		ipP	18 15
		ePP	18 25
		iPcP	20 26
		i	24 13
KIP		iP	16 17 27

Date and Station		Phase	h m s
SLC		eP	16 18 45
		eS	28 49
SJP		eP	16 23 29
		i	23 33
		ipP	23 46
SIT		iP	16 15 51
		eL	20 13
THU		iP	16 18 59
		iPP	20 45
TUC		iP	16 19 33
		i	19 37
		e(S)	26 39
		eS	26 51
		eL	33 04
TUT		eP	16 19 33
		ePcP	20 50
		ePP	21 22
		ePPP	22 12
UKI		iP	16 17 58
WAS		eP	16 21 23
		iP	21 26
		ePP	23 45
		eL	46 05
Oct. 1			
EUR		iP	16 30 43
TUC		eP	16 31 45
TUT		eP	16 31 45
Oct. 1			
COL		iP	18 50 38
		i	50 49
		i	50 56
EUR		eP	18 53 18
HHM		iP	18 52 52
Oct. 1			
COL		e(P)	20 29 32
Oct. 1			
COL		eP	22 31 22
Oct. 1			
FGU		iP	23 58 10
		iL	58 42
SLC		eP	23 57 37
Oct. 2			
GCA		e(P)	00 00 16
Oct. 2			
COL		i(P)	00 08 49
		i	09 09
		i	09 37

Date and Station		Phase	h m s
Oct. 2			
HHM		eP	01 37 27
Oct. 2			
COL		eP	02 28 03
		e	28 46
FGU		e(P)	02 31 49
GCA		eP	02 31 59
HHM		eP	02 30 49
		e(PP)	33 16
TUC		eP	02 32 27
TUT		eP	02 32 28
Oct. 2			
COL		iP	02 47 10
		i	47 40
HHM		eP	02 49 42
		epP	49 58
Oct. 2			
COL		iP	03 49 39
		i	50 47
Oct. 2			
COL		eP	04 30 06
Oct. 2			
COL		iP'	04 57 56
		i	58 41
FGU		eP'	04 57 05
HHM		iP'	04 56 50
		i	05 00 22
Oct. 2			
GCA		e(P)	05 17 39
		e	18 05
Oct. 2			
COL		iP	05 53 47
		iS	55 20
HHM		eP	05 57 45
Oct. 2			
GCA		iP	06 34 35
Oct. 2			
BOZ		eP	07 20 56
BUT		eP	07 20 53
CSC		e(P)	07 19 09
FGU		iP	07 20 26
HHM		e(P)	07 21 07
TUC		eP	07 19 41
TUT		eP	07 19 43

Date and Station		Phase (GCT) h m s
Oct. 2		
COL	iP	10 31 15
	ipP	31 39
Oct. 2		
COL	eP	11 48 47
HHM	eP	11 51 47
Oct. 2		
BOZ	eP	12 06 20
BUT	eP	12 06 21
CSC	eP	12 05 10
FGU	iP	12 05 54
	i	06 00
	i	12 04
GCA	iP	12 05 36
HHM	e(P)	12 06 38
SJP	eP	12 03 56
TUC	eP	12 05 09
	eL	27 14
TUT	e(P)	12 05 12
	e	12 15
UKI	eP	12 06 06
	e	06 26
Oct. 2		
COL	eP	13 07 59
	e	08 22
GCA	eP	13 02 44
	i	04 07
Oct. 2		
BHP	iP	13 43 22
	iS	44 05
SJP	eP	13 46 26
	i	46 31
Oct. 2		
COL	eP	14 19 02
	i	19 48
Oct. 2		
COL	e(P)	16 00 37
Oct. 2		
HHM	iP	16 42 13
Oct. 2		
COL	eP	16 44 54
Oct. 2		
HHM	iP	17 32 49
	iL	33 05
Oct. 2		
HHM	iP	17 48 38
	iL	48 52

Date and Station		Phase (GCT) h m s
Oct. 2		
COL	iP	18 20 36
	i	21 21
	i	23 20
	iPP	23 52
EUR	eP'	18 27 47
FGU	iP'	18 26 49
GCA	eP'	18 26 55
	ePP	28 16
HHM	eP'	18 25 28
	ePP	26 42
THU	iP	18 20 39
	epP	21 10
TUC	iP'	18 27 04
TUT	eP'	18 27 05
Oct. 2		
GCA	iP	20 08 56
	i	09 19
Oct. 2		
COL	iP	20 23 21
	i	23 57
FGU	eP	20 23 19
GCA	eP	20 23 01
Oct. 2		
FGU	iP	21 17 26
Oct. 2		
SLC	eP	22 33 35
Oct. 2		
SLC	eP	22 38 24
Oct. 2		
TUT	e(P)	22 58 39
Oct. 2		
FGU	e(P)	23 41 54
Oct. 2		
TUC	iP	23 59 28
	e(S)	00 00 05
	eL	00 27
TUT	eP	23 59 31
Oct. 3		
HHM	eP	00 14 14
	iL	14 40
Oct. 3		
COL	iP	01 01 29
	i	01 34
	i	02 40
	i	03 31

Date and Station		Phase (GCT) h m s
EUR	eP'	01 07 54
FGU	eP'	01 08 06
GCA	e(P')	01 07 46
Oct. 3		
EUR	eP	02 09 13
TUT	eP	02 09 13
Oct. 3		
COL	e(P)	02 25 45
EUR	eP	02 26 22
FGU	eP	02 25 34
	e	25 44
HHM	e(P)	02 25 35
	i	25 48
Oct. 3		
COL	eP	02 33 12
	i	34 25
EUR	eP	02 33 16
FGU	iP	02 32 38
GCA	eP	02 32 55
Oct. 3		
COL	iP	02 42 20
	i	42 31
	i	42 55
EUR	iP	02 45 16
FGU	eP	02 45 33
HHM	eP	02 44 52
Oct. 3		
EUR	e(P)	04 06 45
FGU	iP	04 06 41
Oct. 3		
GCA	eP	04 40 32
	e	42 46
Oct. 3		
COL	iP	05 19 29
	i	19 43
	i	20 32
	i	21 06
Oct. 3		
BUT	eP	05 23 39
BOZ	e(P)	05 23 36
COL	iP'	05 29 20
CSC	eP	05 22 05

Date and Station		Phase (GCT) h m s
EUR	iP	05 23 19
	ipP	23 30
	i	24 20
	ePP	26 45
	ePKKP	41 26
FGU	iP	05 23 13
	ePP	26 35
GCA	iP	05 23 05
	epP	23 15
HHM	iP	05 23 51
RCD	eP	05 23 18
SLC	eP	05 23 16
SJP	eP	05 20 33
TUC	iP	05 22 36
TUT	eP	05 22 37
UKI	eP	05 23 33
Oct. 3		
FGU	eP	05 41 03
Oct. 3		
COL	iP	10 24 49
EUR	iP	10 26 14
GUA	iP	10 16 22
HHM	eP	10 26 13
SJP	iP'	10 32 03
Oct. 3		
EUR	eP	10 30 30
Oct. 3		
GUA	eP	10 46 22
Oct. 3		
SLC	eP	15 11 26
Oct. 3		
COL	iP	17 23 25
	i	23 35
GUA	eP	17 15 44
Oct. 3		
COL	iP	18 29 46
Oct. 3		
COL	iP	19 29 32
	i	29 46
Oct. 3		
COL	iP'	20 09 01
	i	09 12
BOZ	eP'	20 09 56

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Date and Station	Phase	(GCT) h m s
CSC	eP'	20 10 40
EUR	eP'	20 10 00
FGU	iP'	20 10 06
	i	13 33
GCA	eP'	20 10 08
	i	13 37
HHM	iP'	20 09 51
TUT	e(P')	20 10 17
	e	13 48
Oct. 3 FGU	iP	20 25 08
Oct. 3 COL	iP	22 14 04
	i	14 24
Oct. 3 TUT	eP	22 28 14
Oct. 3 COL	iP	22 44 52
	e	45 14
Oct. 3 COL	iP	22 49 47
	iL	50 13
Oct. 3 COL	iP	23 48 34
Oct. 4 COL	i(P)	00 01 06
	i	01 19
Oct. 4 SLC	eP	00 26 43
Oct.4 COL	iP	02 09 50
Oct. 4 COL	iP	02 14 39
Oct. 4 EUR	eP	03 15 48
Oct. 4 COL	iP	03 28 32
	iL	28 56
Oct. 4 EUR	iP	03 28 17
	i	28 27
Oct. 4 COL	iP	03 36 10
Oct. 4 HHM	eP	05 27 43
	eL	28 31
Oct. 4 FGU	iP	05 38 17
Oct. 4 TUC	eP	07 05 59
Oct. 4 COL	eP	08 03 58
Oct. 4 COL	iP	08 30 39
	i	30 53
Oct. 4 COL	iP	09 09 21
	iL	10 41
Oct. 4 COL	eP	09 25 31
Oct. 4 BCN	e(P)	10 04 25
COL	iP	10 03 28
	i	03 45
	i	03 55
	i(pP)	04 49
EUR	iP	10 04 21
	iPcP	04 27
	i	04 38
	ipP	04 51
	isP	04 58
	i	05 07
FGU	eP	10 04 46
GCA	e(P)	10 04 48
HHM	e(P)	10 04 42
Oct. 4 EUR	iP	10 17 33
Oct. 4 COL	iP	10 29 08
Oct. 4 COL	eP	10 54 25
	e	55 35
EUR	iP	10 57 23
GUA	iP	10 50 35
HHM	eP	10 56 58
Oct. 4 UKI	eP	12 37 11
	i	37 13
	iL	32 20
Oct. 4 COL	iP	16 03 02
Oct. 4 COL	iP	16 12 05
	iS	12 23
Oct. 4 EUR	e(P)	19 20 13
Oct. 4 COL	eP	23 24 11
Oct. 4 COL	iP	23 39 09
Oct. 4 COL	iP	23 59 43
Oct. 5 COL	eP	00 25 17
Oct. 5 COL	eP	00 37 54
	i	38 05
HHM	e(P)	00 38 01
Oct. 5 COL	iP	00 59 58
	iS	01 00 46
GCA	iP	01 05 25
Oct. 5 COL	eP	01 10 03
Oct. 5 UKI	iP	01 18 05
	iL	18 18
Oct. 5 COL	eP	01 38 04
HHM	eP	01 34 44
SJP	iP	01 29 43
	i	29 46
Oct. 5 COL	eP	04 01 05
HHM	iP	04 03 14
Oct. 5 COL	eP	05 50 15
Oct. 5 COL	iP	07 23 04
Oct. 5 COL	eP	08 11 57
	i	12 08
GCA	eP	08 11 39
Oct. 5 GCA	eP	10 40 40
HHM	e(P)	10 40 24
Oct. 5 COL	iP	12 47 35
Oct. 5 TUT	eP	14 57 19
Oct. 5 COL	eP	15 24 58
Oct. 5 COL	iP	15 34 03
Oct. 5 COL	eP	17 16 17
Oct. 5 FGU	iP	19 52 22
SLC	eP	19 51 50
Oct. 5 COL	eP	21 20 04
Oct. 5 GCA	iP	22 13 14
	i	14 06
Oct. 5 TUT	e(P)	22 55 51
Oct. 5 TUT	e(P)	23 01 07
Oct. 6 COL	iP	00 55 33
Oct. 6 COL	iP	02 07 45
Oct. 6 EUR	iP	02 21 22
HHM	iP	02 20 41
Oct. 6 EUR	iP	05 59 40
FGU	iP	05 59 42
GCA	iP	05 59 04
HHM	eP	06 01 04
TUC	eP	05 57 48
	eL	06 00 23
TUT	eP	05 57 49
Oct. 6 COL	eP	06 17 03
	i	17 10
Oct. 6 EUR	e(P)	06 20 26
THU	iP'	06 28 21
TUC	eP	06 20 25
	epP	22 14
Oct. 6 EUR	eP	06 22 16

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Date and Station		Phase (GCT)
		h m s
Oct. 6		
COL	eP	07 02 59
Oct. 6		
COL	iP	08 01 55
EUR	eP	08 02 46
FGU	iP	08 02 11
HHM	eP	08 01 48
Oct. 6		
COL	eP	09 02 45
Oct. 6		
COL	iP	11 17 35
Oct. 6		
EUR	eP	12 29 00
Oct. 6		
COL	iP	13 24 29
	i	24 43
EUR	iP	13 25 20
FGU	iP	13 24 46
HHM	iP	13 24 22
Oct. 6		
BOZ	eP	16 29 34
	e	31 11
BUT	eP	16 29 38
EUR	iP	16 29 18
FGU	iP	16 28 11
	i	31 29
	i	31 35
GCA	iP	16 28 57
	i	31 54
HHM	iP	16 29 49
RCD	eP	16 29 16
	e	31 22
SLC	eP	16 29 15
SJP	iP	16 26 21
TUC	iP	16 28 34
TUT	eP	16 28 35
	e	32 15
Oct. 6		
COL	iP	16 28 00
	i	28 07
	ipP	28 20
	i	29 20
	i(PP)	30 02
	iS	35 19
	e	26 31
EUR	eP	16 31 34

Date and Station		Phase (GCT)
		h m s
HHM	iP	16 30 43
	e(PP)	33 32
THU	iP	16 28 20
Oct. 6		
FGU	eP	17 07 35
Oct. 6		
COL	iP	18 13 51
	i	14 08
EUR	iP	18 16 27
FGU	iP	18 16 14
HHM	iP	18 16 10
Oct. 6		
FGU	iP	18 56 05
Oct. 6		
HHM	iP	19 58 47
Oct. 6		
BOZ	eP	20 04 17
	e	06 05
BUT	eP	20 04 19
	eS	11 20
COL	iP	20 04 17
	i	04 48
	i	05 13
	i	07 03
	eS	11 17
CSC	eP	20 03 20
EUR	iP	20 05 08
FGU	iP	20 05 04
	i	06 41
	iPP	07 20
	i	15 37
	iP'P'	36 46
GCA	eP	20 05 03
	i	05 09
HHM	iP	20 04 10
	ePP	06 02
	eS	11 08
	eL	17 38
RCD	eP	20 03 53
	ePP	05 36
SLC	eP	20 04 46
SJP	eP	20 04 13
THU	iP	20 00 34
TUC	eP	20 05 30
	iP	05 31
	eL	24 00
TUT	eP	20 05 28

Date and Station		Phase (GCT)
		h m s
Oct. 6		
THU	eP	20 03 21
Oct. 6		
COL	iP	20 15 21
Oct. 6		
COL	eP	20 34 15
	e	36 30
Oct. 6		
COL	iP	20 53 15
FGU	iP	20 53 32
Oct. 6		
COL	iP	21 09 36
FGU	iP	21 09 52
Oct. 6		
TUT	eP	22 56 58
Oct. 6		
COL	eP	23 11 02
FGU	iP	23 11 18
Oct. 6		
FGU	iP	23 16 24
Oct. 7		
FGU	iP	00 22 12
Oct. 7		
GCA	iP	00 42 49
Oct. 7		
FGU	iP	01 03 06
	i	03 21
Oct. 7		
COL	eP	01 24 52
Oct. 7		
COL	eP	02 42 26
Oct. 7		
EUR	eP	03 03 03
FGU	eP	03 04 08
Oct. 7		
COL	iP	03 22 09
EUR	eP	03 23 00
FGU	iP	03 22 26
THU	eP	03 18 27
Oct. 7		
BUT	eP	03 24 11
COL	iP	03 24 09
	i(PP)	26 25
CSC	eP	03 23 12
EUR	iP	03 24 59

Date and Station		Phase (GCT)
		h m s
FGU	iP	03 24 26
	iPP	26 34
GCA	eP	03 24 56
HHM	iP	03 24 03
	i(PcP)	25 33
RCD	eP	03 23 43
	ePP	25 30
SLC	eP	03 24 36
THU	iP	03 20 28
TUC	eP	03 25 20
TUT	eP	03 25 20
Oct. 7		
SJP	e(P)	04 23 18
Oct. 7		
FGU	iP	04 55 23
Oct. 7		
FGU	eP	06 07 41
Oct. 7		
SJP	iP	08 30 05
Oct. 7		
COL	iP	11 21 04
EUR	iP	11 20 43
FGU	iP	11 21 07
GCA	iP	11 20 51
TUT	eP	11 20 45
Oct. 7		
GCA	iP	11 35 10
	i	35 44
Oct. 7		
HHM	eP	14 07 24
	iL	07 59
Oct. 7		
COL	iP	14 30 11
	ipP	30 29
GCA	eP	14 29 52
TUT	eP	14 29 43

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Date and Station	Phase	Phase (GCT) h m s
Oct. 7		
BHP	iP'	15 38 16
	i	38 28
BCN	eP	15 33 31
	eP'	37 10
BOZ	eP	15 33 23
	eP'	37 12
	ePP	38 17
	eS	45 57
BUT	e(P)	15 33 15
	ePP	38 13
	eS	43 49
COL	iP	15 31 41
	i	31 59
	i	33 15
	i(PP)	34 56
	i	35 51
	i	38 27
	eS	42 08
	e(P'P')	56 30
	iP'P'	58 09
	eP'P'P'	16 17 35
EUR	eP	15 33 18
	eP'	37 07
	ePP	38 08
FGU	eP	15 33 36
	iP'	37 15
	i	37 47
	i	38 45
	i	47 27
	i	55 48
GCA	iP	15 36 14
	i	38 38
	i	47 40
GUA	iP	15 23 56
	iScP	31 03
	i	36 27
HON	iP	15 30 16
	eS	40 56
HHM	eP	15 33 11
	iP'	37 08
	ePP	37 55
	eS	45 33
	ePS	47 17
	iPKKP	47 56
	eL	16 03 32
KIP	iP	15 30 15
RCD	e(P)	15 33 58
	eP'	37 21
	e	38 06
	ePP	38 50
SLC	eP'	15 37 12
SJP	iP'	15 38 29
	i	38 31
	e	44 00
THU	eP	15 33 01
	eP'	37 02
	ePP	37 39
	ePKKP	48 00
	eP'P'	55 54
TUC	eP'	15 37 19
	eSKS	48 09
	eL	16 13 17
TUT	iP'	15 37 19
	ePP	40 57
UKI	eP	15 32 53
	eP'	36 29
	e	36 47
WAS	iP'	15 37 54
	i	37 59
	i	38 13
	i(PP)	40 49
	iPKS	41 30
Oct. 7		
EUR	iP	15 45 37
Oct. 7		
BHP	eP	19 08 47
	iS	09 55
COL	iP	19 18 41
	ipP	18 59
EUR	eP	19 15 57
FGU	iP	19 15 11
	e	15 52
GCA	iP	19 15 09
HHM	eP	19 16 05
SJP	iP	19 09 29
TUC	eP	19 14 48
TUT	eP	19 14 48
Oct. 7		
SLC	eP	19 29 06
Oct. 7		
HHM	iP	20 06 36
Oct. 7		
BCN	eP	20 10 56
COL	iP	20 14 09
	i	14 43
	i	15 22
EUR	iP	20 11 18
FGU	iP	20 11 28
GCA	iP	20 10 53
	i	11 02
HHM	iP	20 12 15
RCD	eP	20 11 52
SJP	eP	20 11 26
TUC	eP	20 10 28
TUT	eP	20 10 27
Oct. 7		
COL	iP	23 57 28
	e	57 58
GCA	eP	23 57 06
Oct. 8		
GCA	e(P)	01 50 48
Oct. 8		
BHP	iP	01 56 15
	iS	02 00 00
BCN	eP	01 57 06
	eL	02 04 50
BOZ	eP	01 58 05
	eS	02 03 17
	eL	08 37
BUT	eP	01 58 11
	eL	02 08 49
COL	iP	02 01 42
CSC	eP	01 56 51
	eS	02 01 12
EUR	iP	01 57 35
	i	57 57
	i	58 03
	iPcP	02 01 00
FGU	iP	01 57 51
	i	58 00
	eL	02 05 43
GCA	iP	01 56 57
	i	58 26
	iL	02 04 35
HHM	iP	01 58 33
	iPcP	02 01 06
	eL	09 00
RCD	eP	01 57 35
	e(S)	02 02 06
	eL	05 28
SLC	eP	01 57 28
	eL	02 06 17
SJP	iP	01 57 58
	iPcP	02 00 57
THU	iP	02 02 04
TUC	iP	01 56 15
	iL	02 02 05
TUT	iP	01 56 15
	i	56 28
	eL	02 02 01
Oct. 8		
FGU	iP	02 24 48
GCA	eP	02 24 24
Oct. 8		
COL	iP	03 34 42
Oct. 8		
EUR	eP	03 50 25
GCA	eP	03 50 04
SJP	eP	03 46 20
Oct. 8		
GUA	e(P)	04 38 36
Oct. 8		
BHP	iP'	06 10 54
BCN	eP	06 04 34
	eS	14 03
	eP'P'	30 30
	eSKPP'	33 05
BOZ	eP	06 04 07
	eS	13 13
	esS	17 01
BUT	eP	06 04 02
	eS	13 05
	esS	16 49
	eP'P'	30 41
	eSKPP'	33 39
COL	iP	06 01 15
	iS	07 57
	iScS	10 00
CSC	eP	06 05 53
EUR	iP	06 04 17
	ipP	06 39
	isP	07 10
	iPP	07 40
	ipPP	09 02
	iPPP	09 24
	isPP	10 18
	iS	13 40
	eSKS	13 54
	iSP	14 35
	iP'P'	29 22
	epP'P'	30 38
	eSKPP'	32 45
	eP'P'P'	50 54
FGU	iP	06 04 59
	i	13 44
	i(P'P')	29 18
	iSKPP'	33 12

Date and Station		Phase (GCT)
		h m s
GCA	iP	06 04 37
	i	05 04
	ipP	06 43
	i	10 24
	iSP	14 53
	e	29 10
	eP'P'	30 38
	iSKPP'	33 06
GUA	iP	05 58 22
HON	iP	06 02 36
	eS	10 22
	eL	18 24
HHM	iP	06 03 49
	ipP	06 03
	iPP	06 41
	iS	12 38
	iScS	13 08
	isS	16 25
	e	29 49
	eP'P'	30 49
	iSKPP'	33 19
	eP'P'P'	50 38
KIP	iP	06 02 35
	ePP	04 41
RCD	iP	06 04 30
	epP	06 48
	e	10 18
	eS	13 33
	iScS	13 57
	e	17 55
	eP'P'	30 40
SLC	iP	06 04 24
	eS	13 49
SJP	eP'	06 10 46
	ePP	12 18
	e(pP')	13 05
	ePKKP	20 56
THU	iP	06 02 35
	iPcP	03 06
	ipP	04 39
	iPP	05 07
	isP	05 37
	iScP	06 08
	epPP	06 44
	eS	10 19
	eP'P'	31 13
	eSKPP'	33 38
TUC	iP	06 04 58
	ipP	07 17
	iPP	08 44
	iS	14 32
	eP'P'	33 04
TUT	iP	06 04 57
	ipP	07 17
	e	08 10
UKI	iP	06 03 55
	i	03 57
	iPP	07 10
	eS	12 55

Date and Station		Phase (GCT)
		h m s
Oct. 8		
SLC	eP	06 15 45
	eS	17 39
Oct. 8		
EUR	eP	07 18 59
GUA	iP	07 06 08
Oct. 8		
COL	e(P)	08 18 14
Oct. 8		
EUR	eP	09 34 48
Oct. 8		
BCN	eP	12 47 38
	eS	48 00
	eL	48 07
GCA	iP	12 48 27
	i	49 26
Oct. 8		
EUR	iP	12 57 51
Oct. 8		
EUR	iP	12 59 44
FGU	eP	12 59 31
GCA	eP	12 59 02
	i	59 08
TUT	e(P)	12 58 24
Oct. 8		
GCA	iP	14 05 56
SJP	e(P)	14 05 26
Oct. 8		
COL	eP	15 11 32
GCA	e(P)	15 05 51
Oct. 8		
COL	iP	16 16 44
Oct. 8		
EUR	iP	17 47 20
GCA	eP	17 47 23
Oct. 8		
GCA	e(P)	20 01 07
	e	02 37
Oct. 8		
GUA	iP	20 13 44
Oct. 8		
BCN	eP'	20 59 12
BOZ	eP'	20 59 00
COL	e(P)	20 53 18
	i	54 28
	iP'	56 34

Date and Station		Phase (GCT)
		h m s
EUR	iP'	20 58 56
FGU	iP'	20 59 08
GCA	iP'	20 59 14
HHM	eP'	20 58 52
SJP	eP'	20 59 44
THU	eP	20 53 24
TUC	eP'	20 59 23
TUT	eP'	20 59 23
Oct. 8		
GCA	iP	21 38 32
	i	39 35
Oct. 8		
TUT	e(P)	22 02 55
Oct. 9		
GCA	iP	00 06 42
Oct. 9		
GCA	iP	00 13 29
Oct. 9		
GCA	eP	00 21 59
	i	22 04
Oct. 9		
FGU	eP	01 00 06
Oct. 9		
GCA	iP	01 13 17
Oct. 9		
EUR	iP	01 50 00
FGU	iP	01 50 21
	i	50 54
GUA	iP	01 37 41
Oct. 9		
BCN	eP	01 57 13
EUR	eP	01 56 53
GCA	iP	01 56 17
	i	57 56
Oct. 9		
COL	iP	02 15 32
EUR	e(P)	02 15 35
Oct. 9		
GCA	iP	02 48 38
Oct. 9		
HON	iP	03 27 59
	iS	28 20
	iL	28 31

Date and Station		Phase (GCT)
		h m s
KIP	iP	03 28 00
	eS	28 26
	eL	28 35
Oct. 9		
GCA	e(P)	03 33 29
	e	35 08
Oct. 9		
EUR	iP	03 55 41
FGU	iP	03 56 04
GCA	iP	03 55 50
Oct. 9		
EUR	eP	04 32 18
GCA	eP	04 34 23
Oct. 9		
GUA	iP	04 44 40
Oct. 9		
COL	iP	04 58 54
	i	59 06
	i	59 56
EUR	eP	04 58 18
FGU	iP	04 58 45
GCA	iP	04 58 29
Oct. 9		
BCN	eP	05 59 41
BOZ	eP	06 02 18
EUR	eP	06 00 33
	eL	04 11
FGU	eP	06 00 58
GCA	eP	05 59 56
	i	06 00 45
	i	02 17
	i	02 27
TUC	eP	05 59 01
	i	59 16
	iL	06 00 23
Oct. 9		
SLC	eP	06 04 28
	e(S)	05 24
Oct. 9		
COL	iP	06 12 34
EUR	iP	06 13 28
Oct. 9		
GCA	e(P)	06 17 35
	e	17 54
	e	20 31

Date and Station		Phase (GCT)
		h m s
Oct. 9		
FGU	eP	06 20 28
Oct. 9		
BCN	eP	06 33 28
Oct. 9		
UKI	iP	08 11 45
	i	12 22
Oct. 9		
BCN	eP	09 12 22
BOZ	eP	09 11 57
BUT	eP	09 11 50
	eP'P'	39 35
COL	iP	09 08 54
	iS	15 52
CSC	eP	09 13 58
EUR	iP	09 12 05
	ePP	15 33
FGU	iP	09 12 20
	i	15 55
	e	18 43
	i(S)	22 21
	eP'P'	39 24
GCA	iP	09 12 29
GUA	iP	09 06 11
	eS	11 44
HON	eP	09 10 01
	eS	17 34
	eL	24 12
HHM	iP	09 11 36
	iPcP	11 57
	ipP	12 22
	iP'P'	39 40
KIP	iL	09 10 00
RCD	iP	09 12 26
	e	12 55
	eS	22 11
SLC	eP	09 12 06
SJP	eP'	09 19 49
THU	iP	09 10 47
	i(pP)	11 08
	eS	18 59
TUC	iP	09 12 49
TUT	eP	09 12 49
Oct. 9		
EUR	eP	09 12 48
Oct. 9		
FGU	eP	09 55 17

Date and Station		Phase (GCT)
		h m s
GCA	e(P)	09 54 29
	e	55 02
Oct. 9		
BCN	eP	10 02 56
BUT	eP	10 03 31
	e	08 44
COL	iP	10 03 31
	ipP	03 56
	i	04 01
EUR	iP	10 03 01
	ipP	03 35
FGU	iP	10 03 28
	ipP	04 02
GUA	iP	10 03 12
	ipP	03 43
HHM	iP	10 03 32
RCD	e(P)	10 03 56
	e	08 49
TUC	iP	10 03 03
	ipP	03 36
Oct. 9		
BCN	eP	10 06 18
	i	06 30
COL	iP	10 12 43
	i	14 12
EUR	eP	10 07 09
FGU	iP	10 07 44
	i	11 16
	i	12 25
GCA	iP	10 06 34
	i	06 44
	i	08 46
	i	10 37
HHM	eP	10 09 14
TUC	iP	10 05 37
	i	05 49
	e(S)	06 23
	iL	06 47
Oct. 9		
COL	iP	13 15 37
	epP	17 28
EUR	iP	13 18 39
GCA	eP	13 15 10
	e	16 02
HHM	iP	13 18 10
Oct. 9		
EUR	eP	14 24 09

Date and Station		Phase (GCT)
		h m s
FUC	eP	14 23 43
SJP	eP	14 19 13
	i	19 21
	i	22 08
Oct. 9		
COL	iP	15 22 30
HHM	iP	15 25 18
Oct. 9		
COL	eP	17 55 05
Oct. 9		
HHM	iP	18 08 38
Oct. 9		
EUR	iP	20 34 06
GCA	iP	20 33 34
HHM	e(P)	20 34 32
SJP	iP	20 28 25
	i	28 30
	e(S)	30 44
TUC	iP	20 33 12
	e	41 10
Oct. 9		
COL	eP	20 40 06
EUR	iP	20 39 31
	i	39 38
GCA	eP	20 40 21
HHM	iP	20 38 37
RCD	eP	20 40 28
Oct. 9		
GCA	e(P)	21 13 40
	i	14 28
Oct. 9		
COL	eP	21 51 04
HHM	iP	21 53 05
Oct. 9		
COL	iP	22 02 51
EUR	iP	22 03 22
Oct. 9		
GCA	iP	23 11 34
	i	11 58
Oct. 10		
EUR	eP	00 37 24
Oct. 10		
COL	iP	00 55 38

Date and Station		Phase (GCT)
		h m s
Oct. 10		
GCA	eP	01 36 39
Oct. 10		
COL	iP	01 44 24
Oct. 10		
GCA	eP	02 08 27
	i	10 21
Oct. 10		
COL	iP	03 56 58
EUR	e(P)	03 57 51
Oct. 10		
EUR	iP	05 16 00
Oct. 10		
COL	iP	05 25 44
Oct. 10		
EUR	eP	09 57 01
Oct. 10		
COL	eP	13 18 50
	i	19 01
EUR	iP	13 14 59
GCA	eP	13 13 59
HHM	e(P)	13 15 48
Oct. 10		
EUR	eP	13 22 41
Oct. 10		
EUR	iP	13 45 45
Oct. 10		
COL	eP	14 06 06
Oct. 10		
COL	eP	14 27 33
	i	27 57
Oct. 10		
FGU	e(P)	16 22 05
Oct. 10		
BCN	eP	16 26 47
COL	iP	16 22 59
	ipP	23 15
EUR	iP	16 26 27
	ipP	26 44
FGU	iP	16 26 45
HHM	iP	16 25 56
Oct. 10		
FGU	e(P)	18 50 43
	i	51 08
Oct. 10		
EUR	e(P)	18 55 24

Date and Station		Phase (GCT) h m s
FGU	iP	18 55 18
Oct. 10 FGU	eP	19 40 00
	i	40 03
Oct. 10 FGU	iP	20 33 37
Oct. 10 COL	iP	20 45 31
	ipP	45 52
FGU	iP	20 48 25
HBM	iP	20 47 49
Oct. 10 EUR	iP'	22 03 51
FGU	iP'	22 03 27
HBM	iP'	22 03 44
Oct. 10 FGU	iP	22 07 43
Oct. 10 COL	eP	23 36 39
EUR	e(P)	23 37 04
FGU	iP	23 37 39
Oct. 10 EUR	iP	23 41 32
FGU	eP	23 41 16
	i	41 25
Oct. 10 COL	iP	23 59 08
EUR	eP	23 58 35
	i	58 41
FGU	eP	23 59 04
	i	59 05
GCA	eP	23 59 25
HBM	eP	23 57 35
	eL	00 00 44
Oct. 11 FGU	e(P)	03 20 59
Oct. 11 FGU	iP	04 20 23
	i	20 24
Oct. 11 COL	eP	04 40 49
	i	41 05
CSC	eP	04 35 06
	o	35 22

Date and Station		Phase (GCT) h m s
EUR	e(P)	04 37 11
FGU	iP	04 36 48
	i	37 00
	i	38 01
HBM	iP	04 37 55
Oct. 11 COL	eP	04 58 31
	i	59 30
EUR	eP	04 58 55
Oct. 11 FGU	eP	07 24 26
Oct. 11 BCN	iP	08 07 01
	i	07 22
	eS	08 51
	eL	09 10
BOZ	eP	08 07 25
	eS	08 38
	e	09 38
	eL	10 48
BUT	eP	08 07 35
	eL	09 55
COL	iP	08 12 25
	i	13 11
CSC	eP	08 10 23
	eS	14 30
	eL	16 58
EUR	iP	08 07 08
FGU	iP	08 06 17
GCA	iP	08 06 23
HBM	iP	08 08 09
	iL	11 10
RCD	iP	08 07 08
	iS	08 35
SLC	eP	08 06 33
THU	eP	08 13 21
TUC	eP	08 07 06
	i	07 09
TUT	i(P)	08 07 26
UKI	eP	08 08 29
	eL	12 18
WAS	eP	08 10 41
	eS	15 15
	eL	16 23

Date and Station		Phase (GCT) h m s
Oct. 11 GCA	iP	08 53 32
	iS	54 28
Oct. 11 FGU	iP	08 57 05
Oct. 11 GCA	iP	09 48 41
	iS	49 22
Oct. 11 COL	eP	10 14 22
	i	14 30
Oct. 11 COL	iP	10 17 54
Oct. 11 COL	iP	10 32 26
Oct. 11 FGU	iP	10 41 12
HBM	e(P)	10 44 57
Oct. 11 HBM	e(P)	11 30 38
Oct. 11 BOZ	e(P)	11 58 23
BUT	e(P)	11 57 30
EUR	eP	11 56 46
HBM	eP	11 56 13
	eL	57 58
Oct. 11 COL	iP	13 05 20
EUR	eP	13 12 44
FGU	iP	13 14 38
Oct. 11 GCA	e(P)	14 34 00
Oct. 11 COL	iP	14 44 27
	i	44 36
EUR	iP	14 45 20
Oct. 11 COL	iP	16 32 29
HBM	e(P)	16 31 41
Oct. 11 COL	eP	16 40 41
Oct. 11 CSC	eP'	18 46 14
EUR	iP'	18 46 55
	iPP	50 33

Date and Station		Phase (GCT) h m s
HBM	eP'	18 46 15
	ePP	49 40
Oct. 11 SLC	eP	19 05 09
Oct. 11 GUA	iP	20 57 19
COL	iP	21 01 08
	i	03 20
Oct. 11 COL	i(P)	22 00 16
Oct. 12 GCA	eP	00 27 36
TUT	eP	00 29 48
Oct. 12 COL	iP	00 30 18
	i	30 24
	ipP	30 45
EUR	iP	00 33 28
	ipP	33 59
Oct. 12 EUR	iP	00 46 57
Oct. 12 BCN	eP	01 29 23
EUR	iP	01 29 30
	i	01 31 19
Oct. 12 TUT	eP	02 59 30
Oct. 12 FGU	eP	03 35 29
Oct. 12 EUR	iP	03 46 13
Oct. 12 EUR	e(P)	04 02 17
GCA	eP	03 59 49
	e	04 01 27
Oct. 12 EUR	e(P)	04 16 31
Oct. 12 FGU	iP	05 52 40
Oct. 12 FGU	eP	05 58 24
Oct. 12 EUR	i(P)	06 24 40
Oct. 12 EUR	eP	07 39 15

Date and Station		Phase	(GCT) h m s
Oct. 12			
BCN		eP	09 23 00
BOZ		eP	09 23 42
COL		iP	09 23 36
		i	23 57
		i	25 38
EUR		iP	09 23 17
FGU		iP	09 23 33
GCA		eP	09 23 12
		i	23 16
HHM		iP	09 23 38
TUC		iP	09 23 08
TUT		iP	09 23 10
Oct. 12			
GCA		e(P)	09 29 15
Oct. 12			
COL		eP	10 08 40
Oct. 12			
COL		e(P)	10 46 32
FGU		e(P)	10 49 48
HHM		e(P)	10 49 20
Oct. 12			
COL		eP	10 56 42
Oct. 12			
BOZ		eP	11 45 06
EUR		eP	11 46 40
FGU		eP	11 45 54
		i	46 03
HHM		eP	11 45 53
		i	46 03
		iL	46 58
Oct. 12			
FGU		iP	12 26 17
Oct. 12			
FGU		eP	13 50 05
		i	51 14
Oct. 12			
TUT		e(P)	16 14 30
Oct. 12			
COL		iP	18 41 57
GUA		iP	18 34 02
Oct. 12			
BCN		e(P)	23 12 53
Oct. 13			
EUR		iP	00 31 18
		i	33 09
FGU		eP	00 31 25
		e	33 15
TUT		eP	00 30 36
Oct. 13			
BCN		eP	01 03 28
		e	04 44
EUR		iP	01 05 01
Oct. 13			
FGU		iP	01 27 59
Oct. 13			
GCA		eP	01 52 58
		i	53 13
Oct. 13			
EUR		iP	02 34 02
FGU		iP	02 33 44
HHM		iP	02 33 19
		i	33 58
Oct. 13			
FGU		iP	05 45 14
Oct. 13			
EUR		e(P')	06 20 22
FGU		eP'	06 19 57
Oct. 13			
FGU		e(P)	06 34 29
		eL	35 16
Oct. 13			
EUR		iP	08 15 06
FGU		eP	08 14 56
Oct. 13			
EUR		eP	12 55 06
FGU		iP	12 55 18
Oct. 13			
FGU		iP	13 25 50
Oct. 13			
FGU		eP	13 53 19
Oct. 13			
EUR		eP	14 07 58
Oct. 13			
BHP		iP	14 11 26
		iS	12 16
Oct. 13			
BCN		eP	15 02 29
		e	10 29
BOZ		eP	15 01 53
		eS	09 28
BUT		eP	15 01 45
		eS	09 09
COL		iP	14 58 14
		iS	15 02 46
CSC		eP	15 04 25
		e(PP)	07 04
EUR		iP	15 03 05
GCA		iP	15 01 35
		i	01 48
		iS	07 38
HON		eP	15 00 54
		e	03 00
		eS	07 31
		eL	13 07
		eT	48 12
HHM		iP	15 01 27
		eS	08 36
		eL	12 26
		eP'P'	32 00
KIP		iP	15 00 52
		ePP	02 23
RCD		iP	15 02 28
		i	05 41
SLC		eP	15 02 15
		e	02 46
SJP		iP	15 06 07
		ePP	09 56
THU		eP	15 00 53
TUC		iP	15 03 05
		i	03 15
		e	06 31
		iS	11 26
		eL	24 16
		iP'P'	32 08
TUT		eP	15 03 04
		i	03 14
		ePP	05 20
UKI		iP	15 01 40
WAS		iP	15 04 11
		ePP	06 45
		eS	13 34
		eL	31 26
Oct. 13			
EUR		iP	15 08 09
Oct. 13			
BCN		iP	15 15 29
		eS	15 54
EUR		iP	15 15 40
GCA		eP	15 14 44
		i	14 57
		i	15 06
Oct. 13			
BCN		e(P)	15 31 55
COL		iP	15 30 56
FGU		iP	15 31 46
Oct. 13			
COL		iP	16 40 49
Oct. 13			
COL		iP	16 56 15
FGU		iP	16 58 44
GUA		iP	16 47 42
		i	49 08
Oct. 13			
BHP		iP	17 19 15
		iS	20 02
FGU		iP	17 26 01
HHM		iP	17 27 02
RCD		e(P)	17 25 57
SJP		iP	17 22 49
Oct. 13			
FGU		e(P)	17 53 05
Oct. 13			
BCN		eP	18 57 00
COL		iP	18 52 25
GUA		iP	18 44 40
HHM		iP	18 53 35
SJP		eP'	18 59 38
Oct. 13			
FGU		iP	20 00 31
Oct. 13			
BCN		eP	20 22 22
COL		iP	20 26 42
		i	26 49
		i	27 20
EUR		iP	20 22 49
FGU		iP	20 22 30
HHM		e(P)	20 23 38
TUT		eP	20 21 40

Date and Station		Phase (GCT) h m s
Oct. 13		
FGU	iP	20 49 13
Oct. 13		
TUT	eP	21 04 53
Oct. 13		
TUT	eP	22 56 03
Oct. 14		
EUR	iP	01 08 13
FGU	iP	01 08 19
HHM	iP	01 09 02
TUC	eP	01 07 28
TUT	eP	01 07 29
Oct. 14		
COL	iP	01 10 16
	e	10 24
	e	10 34
EUR	iP'	01 17 52
SJP	eP'	01 18 03
Oct. 14		
EUR	iP	03 28 16
Oct. 14		
FGU	e(P)	08 25 00
HHM	e(P)	08 25 56
Oct. 14		
FGU	iP	08 47 25
	i	48 21
Oct. 14		
FGU	iP	09 33 21
Oct. 14		
COL	iP	10 33 19
	i	33 33
EUR	iP	10 33 50
FGU	iP	10 33 10
Oct. 14		
FGU	eP	11 20 06
Oct. 14		
COL	iP	11 36 52
EUR	iP	11 40 16
FGU	eP	11 40 34
	i	40 42
HHM	iP	11 39 45
	iPcP	42 28
SJP	iP	11 45 28
	ipP	45 38

Date and Station		Phase (GCT) h m s
TUT	eP	11 41 22
Oct. 14		
FGU	iP	12 21 06
Oct. 14		
FGU	iP'	12 35 31
	i	35 36
	i	38 58
	e	39 22
HHM	iP'	12 35 21
Oct. 14		
EUR	iP	12 38 49
Oct. 14		
FGU	iP	13 03 25
	i	03 47
Oct. 14		
BCN	e(P)	13 17 24
BOZ	eP	13 16 51
BUT	eP	13 16 44
	eL	22 33
COL	iP	13 13 53
	iS	16 06
EUR	iP	13 17 24
FGU	iP	13 17 36
	i	17 44
	eL	25 32
HHM	iP	13 16 11
	iL	21 14
RDC	eP	13 17 39
	iL	25 54
SJP	eP	13 22 43
TUC	iP	13 18 42
WAS	eP	13 18 39
	i	18 53
Oct. 14		
COL	eP	13 27 44
	i(S)	29 41
Oct. 14		
CSC	eP	13 35 17
Oct. 14		
FGU	iP	14 03 22
Oct. 14		
COL	iP	15 41 09
	i	41 39
	i	41 52
SJP	eP'	15 48 37
	i	48 53

Date and Station		Phase (GCT) h m s
Oct. 14		
BCN	e(P)	18 00 49
EUR	iP	18 01 15
FGU	eP	18 01 05
	i	01 08
GCA	iP	18 00 57
HHM	e(P)	18 01 36
	e	01 45
SJP	eP	17 58 14
TUT	eP	18 00 33
Oct. 14		
BHP	iP	21 31 44
BCN	iP	21 27 11
	eS	33 39
BOZ	eP	21 26 44
	ePP	28 18
	eS	32 39
BUT	eP	21 26 34
	eS	32 29
COL	iP	21 23 22
	iS	26 57
CSC	iP	21 29 49
	eS	38 26
EUR	iP	21 26 47
FGU	iP	21 27 13
	i	32 52
	e	34 57
GCA	iP	21 27 24
	i	27 26
	i	27 54
	i	29 21
GUA	iP	21 28 11
HON	eP	21 25 39
	eS	31 03
	eL	32 18
HHM	iP	21 26 18
	iPP	27 31
	iPcP	28 40
	e	31 21
	eL	34 42
RCD	iP	21 27 27
SLC	eP	21 27 04
	eL	36 56
SJP	eP	21 31 47
	iPcP	31 53
	ipP	32 03
	isP	32 10
	e(S)	42 10

Date and Station		Phase (GCT) h m s
THU	iP	21 27 09
TUC	iP	21 27 52
	eS	34 48
	eSS	38 31
	iSS	38 57
	eL	41 13
TUT	iP	21 27 51
UKI	eP	21 26 11
	iP	26 13
WAS	iP	21 29 39
	i	30 14
	i	38 14
	iL	42 04
Oct. 14		
GCA	iP	21 51 13
Oct. 14		
GCA	eP	21 58 30
Oct. 14		
SJP	eP	22 10 48
Oct. 14		
COL	eP	22 27 52
HHM	eP	22 30 44
Oct. 14		
FGU	iP	23 01 22
Oct. 14		
BCN	e(P)	23 05 19
BOZ	eP	23 04 12
BUT	eP	23 04 17
COL	iP	23 04 30
CSC	eP	23 03 00
FGU	iP	23 04 29
GCA	eP	23 05 01
HHM	iP	23 04 10
RCD	eP	23 03 48
SLC	eP	23 04 40
SJP	eP	23 03 47
THU	eP	23 00 57
TUC	eP	23 05 23
TUT	eP	23 05 22
UKI	e(P)	23 05 34
	eP	05 38

Date and Station	Phase	(GCT) h m s
Oct. 14		
COL	iP	23 12 28
	i	12 40
	i	12 46
GCA	eP	23 11 54
	i	12 42
HHH	eP	23 12 07
Oct. 14		
FGU	iP	23 30 30
Oct. 15		
FGU	iP	00 27 21
Oct. 15		
COL	eP	02 02 58
CSC	eP	02 01 29
EUR	iP	02 03 30
FGU	iP	02 02 55
	i	02 58
GCA	eP	02 03 26
HHH	eP	02 02 36
THU	eP	01 59 20
	e	59 33
	e	02 01 35
Oct. 15		
EUR	iP	02 13 08
HHH	iP	02 12 30
	i	14 59
Oct. 15		
COL	iP	03 06 01
	i	06 25
	i	06 41
	i	06 59
	i	08 48
EUR	iP	03 06 32
	i	07 18
FGU	iP	03 08 47
Oct. 15		
EUR	eP	04 33 30
Oct. 15		
FGU	e(P)	04 57 38
Oct. 15		
COL	iP	06 44 47
EUR	iP	06 45 22
FGU	iP	06 44 46
HHH	eP	06 44 26
Oct. 15		
BUT	eP	08 44 09
EUR	iP	08 44 20
	i	44 38
	i(S)	45 11
	iL	45 33
GCA	iP	08 44 37
	i	44 54
	i	45 07
	iL	46 09
HHH	eP	08 44 41
	iL	46 16
RCD	eP	08 45 03
	e	46 24
SLC	eP	08 43 42
TUC	eP	08 46 17
	eL	48 37
TUT	e(P)	08 46 20
	eL	48 37
Oct. 15		
EUR	iP	09 05 32
	i	05 46
	i(S)	06 23
	iL	06 41
GCA	e(P)	09 05 57
HHH	e(P)	09 06 09
Oct. 15		
BOZ	eP	09 41 37
Oct. 15		
GCA	e(P)	10 05 38
Oct. 15		
BUT	eP	10 24 42
EUR	eP	10 24 55
	iP	24 56
	i	25 12
	i(S)	25 48
	iL	26 09
GCA	eP	10 25 23
	i	25 43
HHH	e(P)	10 25 17
	eL	26 49
RCD	eP	10 25 38
	e	26 44
SLC	eP	10 24 17
Oct. 15		
COL	iP	11 26 03
	i	26 29
	i	27 03
Oct. 15		
GUA	eP	11 35 02
HHH	iP	11 43 10
THU	eP	11 42 06
Oct. 15		
COL	iP	12 23 49
EUR	iP	12 24 37
Oct. 15		
DCN	iP	17 30 19
	iS	30 24
	eL	30 29
Oct. 15		
SJP	eP	20 11 13
Oct. 15		
CSC	eP	21 02 27
Oct. 15		
TUT	e(P)	22 56 23
Oct. 16		
COL	iP	01 41 00
EUR	iP	01 44 40
HHH	iP	01 44 07
Oct. 16		
RCD	eP	04 17 57
Oct. 16		
COL	iP	05 06 07
EUR	iP	05 05 48
Oct. 16		
EUR	iP	06 16 29
	i	16 38
Oct. 16		
COL	eP	06 39 35
EUR	eP	06 42 43
HHH	iP	06 42 16
THU	eP	06 38 57
Oct. 16		
COL	e(P)	07 18 07
	e	18 14
Oct. 16		
BOZ	eP	08 44 01
Oct. 16		
BUP	iP	09 37 39
DCN	eP	09 41 51
BUT	eP	09 41 39
COL	iP	09 45 06
CSC	eP	09 39 35
	eS	43 44
EUR	iP	09 41 17
	e(ScP)	47 47
HHH	iP	09 42 05
	eScP	48 07
SLC	eP	09 41 06
TUC	iP	09 40 08
	eL	48 32
TUT	eP	09 40 07
WAS	eP	09 40 26
	e(S)	47 10
	eL	49 10
Oct. 16		
EUR	eP	09 55 38
	e	59 32
Oct. 16		
COL	eP	10 11 01
Oct. 16		
EUR	eP	10 19 33
Oct. 16		
BOZ	eP	10 24 37
Oct. 16		
COL	eP	11 20 03
EUR	eP	11 16 38
Oct. 16		
EUR	eP	13 27 14
	e	27 46
HHH	iP	13 27 44
	e	28 15
SJP	eP	13 23 04
TUT	eP	13 24 26
Oct. 16		
EUR	e(P)	13 41 47
Oct. 16		
BOZ	eP	14 36 45
Oct. 16		
BOZ	iP	15 46 53
Oct. 16		
COL	iP	17 54 10
	iS	54 34
EUR	iP	17 59 44
HHH	iP	17 58 46
	ePP	59 13
Oct. 16		
EUR	eP	18 11 21

Date and Station		Phase (GCT)
		h m s
Oct. 16		
COL	iP	19 26 38
	epP	27 55
EUR	iP	19 30 17
HHM	iP	19 29 42
Oct. 16		
EUR	eP	19 56 23
Oct. 16		
COL	eP	20 05 07
Oct. 16		
COL	eP	20 26 44
EUR	eP	20 29 54
Oct. 16		
COL	eP	21 50 19
EUR	iP	21 55 42
Oct. 16		
COL	eP	22 42 14
EUR	iP	22 45 41
HHM	eP	22 45 11
Oct. 16		
FGU	iP	22 51 05
Oct. 16		
COL	iP	22 59 39
EUR	iP	23 03 05
FGU	iP	23 03 30
HHM	eP	23 02 35
	e	04 45
TUC	eP	23 04 08
TUT	eP	23 04 07
Oct. 16		
BCN	eP	23 07 41
EUR	eP	23 07 05
	iP	07 15
GCA	iP	23 07 24
TUT	eP	23 09 24
Oct. 16		
FGU	eP	23 50 23
	e	53 41
Oct. 17		
BCN	eP	00 49 49
	e	51 15
EUR	iP	00 49 31
GCA	iP	00 49 23
	i	49 32
	i	51 27
HHM	eP	00 51 33
TUC	e(P)	00 49 03
	eL	50 26
	iL	50 56
TUT	e(P)	00 49 13
Oct. 17		
COL	eP	02 01 08
EUR	iP	02 04 18
FGU	iP	02 03 42
GCA	eP	02 04 02
HHM	eP	02 03 53
Oct. 17		
EUR	e(P)	02 16 49
Oct. 17		
EUR	eP	02 39 50
FGU	iP	02 39 38
Oct. 17		
FGU	eP	03 13 13
Oct. 17		
GCA	iP	05 57 20
	i	57 24
Oct. 17		
EUR	eP	06 09 25
FGU	eP	06 10 32
GCA	eP	06 10 22
HHM	e(P)	06 10 10
Oct. 17		
COL	eP	06 20 36
EUR	eP	06 23 45
Oct. 17		
FGU	e(P)	07 10 41
Oct. 17		
FGU	eP	08 04 37
Oct. 17		
FGU	eP	08 59 59
Oct. 17		
EUR	e(P)	09 13 23
Oct. 17		
FGU	e(P)	12 19 57
Oct. 17		
BCN	eP	13 48 37
BOZ	eP	13 49 21
BUT	eP	13 49 23
EUR	iP	13 48 50
FGU	iP	13 48 55
	e	49 32
GCA	iP	13 48 38
HHM	eP	13 49 35
TUC	iP	13 48 12
TUT	eP	13 48 12
Oct. 17		
COL	eP	14 11 41
EUR	iP	14 15 49
Oct. 17		
BHP	iP	15 46 35
	iS	47 22
BCN	eP	15 53 55
BOZ	eP	15 54 25
CSC	eP	15 51 33
COL	iP	15 57 24
EUR	iP	15 54 16
	i	54 26
	i	55 53
FGU	iP	15 53 52
	iPP	55 37
	i	57 07
GCA	iP	15 53 43
	iPP	55 38
HHM	iP	15 54 49
	iS	16 02 20
RCD	iP	15 53 46
SLC	eP	15 54 03
SJP	eP	15 49 40
	eS	52 56
TUC	iP	15 53 16
	ipP	53 41
	esP	53 54
	iPP	54 57
	iS	59 32
	eL	16 09 23
TUT	iP	15 53 16
UKI	iP	15 54 50
WAS	i(P)	15 52 16
Oct. 17		
BHP	iP	15 57 11
	iS	57 58
BCN	eP	16 04 33
COL	eP	16 08 02
EUR	iP	16 04 53
	ipP	05 02
FGU	iP	16 04 29
	iPP	06 15
GCA	iP	16 04 29
HHM	iP	16 05 27
	iPP	07 16
RDC	eP	16 04 24
SLC	eP	16 04 40
SJP	eP	16 00 19
TUC	iP	16 03 54
TUT	eP	16 03 53
Oct. 17		
HHM	i(P)	16 09 16
Oct. 17		
BCN	eP	18 15 46
BOZ	eP	18 15 06
COL	iP	18 16 38
EUR	iP	18 15 42
	e	16 27
FGU	iP	18 15 04
GCA	iP	18 15 24
HHM	iP	18 15 15
SJP	eP	18 11 08
TUC	eP	18 15 30
TUT	e(P)	18 15 27
Oct. 17		
COL	iP	19 04 12
Oct. 17		
BCN	eP	19 12 30
BOZ	eP	19 11 51
COL	iP	19 13 22

Date and Station		Phase	(GCT) h m s
EUR		iP	19 12 26
FGU		iP	19 11 49
		e	12 38
GCA		iP	19 12 09
HHM		iP	19 11 59
RCD		eP	19 11 11
SJP		eP	19 07 53
TUC		iP	19 12 16
		e	12 54
TUT		eP	19 12 14
UKI		eP	19 13 03
Oct. 17			
FGU		iP	20 12 29
Oct. 17			
BCN		eP	20 35 03
COL		iP	20 39 22
CSC		eP	20 33 54
EUR		iP	20 35 28
GCA		iP	20 34 52
HHM		iP	20 36 18
TUC		iP	20 34 18
		e	35 11
TUT		eP	20 34 16
Oct. 17			
BCN		eP	22 21 27
		e	23 02
BOZ		eP	22 22 17
BUT		eP	22 22 23
COL		iP	22 25 46
CSC		eP	22 20 21
EUR		iP	22 21 53
		ipP	22 35
GCA		eP	22 21 16
		e	25 17
HHM		iP	22 22 43
		i	24 33
		eL	36 00
RCD		eP	22 21 41
SLC		eP	22 21 43
SJP		e(P)	22 21 05
		ePP	21 55
		iPcP	24 25
TUC		iP	22 20 42
		i(pP)	21 02
		e	21 40
		i	22 20
		iS	25 30
		iL	31 06
TUT		eP	22 20 41
		e	20 58
		e	21 41
WAS		eP	22 21 14
		e	23 47
		e	27 11
Oct. 17			
COL		iP	22 45 25
EUR		eP	22 45 03
TUT		eP	22 45 06
Oct. 17			
TUT		e(P)	22 55 42
Oct. 17			
COL		iP	23 01 22
Oct. 17			
COL		iP	23 23 20
Oct. 18			
COL		eP	00 13 12
EUR		iP	00 12 52
Oct. 18			
BCN		eP	00 29 37
COL		iP	00 25 45
		eS	29 11
CSC		eP	00 32 21
EUR		iP	00 29 14
		i	29 27
		iScP	35 08
GCA		eP	00 29 46
		i	30 03
HHM		iP	00 28 42
		iPcP	31 12
RCD		eP	00 29 56
SJP		eP	00 34 18
TUC		iP	00 30 17
TUT		e(P)	00 30 17
Oct. 18			
EUR		eP	02 56 48
Oct. 18			
EUR		eP	02 57 46
Oct. 18			
EUR		iP	04 19 24
FGU		iP	04 19 06
TUC		iP	04 18 13
TUT		eP	04 18 14
Oct. 18			
EUR		eP	05 04 41
FGU		eP	05 04 23
TUC		eP	05 03 30
TUT		eP	05 03 31
Oct. 18			
COL		iP	05 53 41
EUR		iP	05 54 16
Oct. 18			
BOZ		e(P)	06 40 57
COL		iP	06 44 28
CSC		eP	06 39 02
EUR		iP	06 40 34
GCA		eP	06 39 57
HHM		eP	06 41 24
TUC		iP	06 39 22
		eL	49 42
TUT		eP	06 39 22
Oct. 18			
FGU		e(P)	06 47 10
Oct. 18			
COL		iP	10 37 43
EUR		eP	10 40 24
HHM		iP	10 39 44
Oct. 18			
BCN		e(P)	11 04 28
COL		iP	11 05 10
EUR		iP	11 04 34
		i	04 45
FGU		iP	11 05 01
		i	05 16
GCA		iP	11 04 44
TUC		iP	11 04 33
TUT		eP	11 04 29
Oct. 18			
FGU		eP	11 47 05
Oct. 18			
FGU		e(P)	12 00 59
		e	01 31
TUT		e(P)	12 00 31
Oct. 18			
BCN		eP	13 05 18
Oct. 18			
EUR		eP	12 18 28
		iP	18 33
		eL	19 33
Oct. 18			
EUR		eP	13 03 51
		eL	05 35
Oct. 18			
COL		iP	13 57 00
		e	58 04
Oct. 18			
COL		iP	17 46 18
FGU		iP	17 41 58
		i	42 29
GCA		eP	17 41 34
		i	42 13
TUC		iP	17 41 06
TUT		eP	17 41 01
Oct. 18			
COL		eP	21 10 06
Oct. 18			
COL		eP	21 31 40
Oct. 18			
GCA		iP	22 30 30
		i	32 10
Oct. 18			
TUT		e(P)	23 03 50
Oct. 19			
EUR		eP	02 12 44
Oct. 19			
COL		eP	02 20 08
EUR		iP	02 23 42

Date and Station		Phase (GCT) h m s
Oct. 19		
EUR	eP	02 39 46
Oct. 19		
BCN	eP	05 22 26
FGU	iP	05 21 47
EUR	iP	05 22 00
HHM	eP	05 20 52
TUC	eP	05 22 51
TUT	eP	05 22 50
Oct. 19		
BCN	eP	06 39 36
COL	iP	06 35 37
FGU	eP	06 39 29
EUR	iP	06 39 10
	i	39 15
	i	39 22
GCA	eP	06 39 28
HHM	eP	06 38 44
TUC	e(P)	06 40 04
	e	40 08
	e	40 15
TUT	e(P)	06 40 06
Oct. 19		
COL	iP	07 21 06
EUR	iP	07 20 44
FGU	eP	07 20 37
	i	21 07
GCA	eP	07 20 51
TUC	iP	07 20 44
Oct. 19		
GCA	iP	07 36 21
Oct. 19		
COL	iP	09 10 01
Oct. 19		
COL	iP	09 11 49
	iS	12 04
EUR	eP	09 17 57
HHM	iP	09 17 00
Oct. 19		
EUR	eP	10 18 14
FGU	eP	10 17 56
TUC	eP	10 17 05
TUT	eP	10 17 04
Oct. 19		
EUR	e(P)	10 45 14
TUC	eP	10 44 54
TUT	e(P)	10 44 47
Oct. 19		
EUR	eP	10 58 12
FGU	iP	10 57 54
TUC	eP	10 57 03
TUT	eP	10 57 03
Oct. 19		
COL	iP	11 26 24
Oct. 19		
COL	iP	11 34 42
	iS	35 11
EUR	eP	11 40 48
HHM	eP	11 39 44
Oct. 19		
FGU	iP	11 50 55
Oct. 19		
FGU	iP	12 47 53
	e	48 33
Oct. 19		
FGU	eP	13 42 02
	i	43 03
Oct. 19		
COL	iP	14 04 40
Oct. 19		
FGU	eP	14 32 44
	e	33 02
	i	33 50
Oct. 19		
GCA	eP	20 09 19
	i	10 20
Oct. 19		
HHM	i(P)	22 01 50
Oct. 19		
COL	eP	22 58 18
Oct. 20		
GCA	iP	00 56 02
Oct. 20		
COL	eP	02 32 12
Oct. 20		
SLC	eP	03 24 01
Oct. 20		
TUC	e(P)	03 38 43
	i	38 51
TUT	eP	03 38 51
Oct. 20		
TUC	eP	03 57 33
TUT	e(P)	03 57 41
Oct. 20		
BCN	e(P)	04 10 11
	e	10 52
	e	11 47
GCA	eP	04 09 46
	i	10 18
	eS	11 51
	eL	14 30
TUC	e(P)	04 08 53
	i	09 47
	iL	11 15
TUT	eP	04 08 46
Oct. 20		
EUR	e(P)	04 15 52
	eL	19 02
Oct. 20		
BCN	e(P)	04 22 45
	e	25 22
EUR	eP	04 23 41
	e	26 51
GCA	iP	04 23 08
	i	23 43
	i	25 16
HHM	e(P)	04 25 37
TUC	eP	04 20 09
	i	20 19
	i	21 08
	i(S)	22 26
	iL	22 42
TUT	eP	04 20 09
	i	20 24
	e(S)	22 21
	eL	22 44
Oct. 20		
SJP	iP	05 33 58
	eL	34 37
Oct. 20		
GCA	e(P)	05 49 50
TUT	e(P)	05 46 52
Oct. 20		
GCA	eP	06 06 44
	i	07 15
Oct. 20		
BCN	eP	06 21 19
COL	iP	06 24 22
CSC	eP	06 18 09
EUR	iP	06 21 33
	e	21 54
GCA	eP	06 21 02
HHM	iP	06 21 53
SJP	iP	06 14 45
TUT	e(P)	06 20 42
	e	21 01
Oct. 20		
COL	iP	06 33 21
Oct. 20		
GCA	eP	06 42 09
Oct. 20		
COL	iP	09 39 12
EUR	iP	09 42 42
Oct. 20		
GCA	eP	09 58 52
	i	58 55
	e	10 00 11
TUT	e(P)	09 58 30
Oct. 20		
SLC	eP	10 19 03
Oct. 20		
RCD	eP	10 44 13
Oct. 20		
BCN	eP	11 18 53
	e	19 14
	ePP	22 21
	eP'P'	44 37
BOZ	eP	11 19 15
BUT	eP	11 19 10
COL	iP	11 18 25
EUR	iP	11 18 52
	ePP	22 18
	ePKKP	36 29
	i	37 18
	eP'P'	44 33
GCA	iP	11 18 05
	e	22 41
	ePKKP	37 05
	eP'P'	44 30
HHM	iP	11 19 08
	ePKKP	36 23
	eP'P'	44 24

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Date and Station	Phase	(GCT)
		h m s
SJP	iP'	11 25 08
	e(SKP)	28 21
TUC	iP	11 19 03
	e(PP)	23 36
	iS	30 06
	ePKKP	36 27
	iP'P'	44 39
TUT	iP	11 19 04
UKI	iP	11 18 25
Oct. 20		
COL	iP	12 55 06
EUR	iP	12 55 36
HHM	iP	12 54 28
Oct. 20		
EUR	iP	12 58 44
	i	59 03
Oct. 20		
COL	eP	13 47 49
Oct. 20		
THU	eP	13 59 18
Oct. 20		
COL	e(P)	15 19 06
Oct. 20		
COL	iP	17 14 44
Oct. 20		
FGU	iP	20 38 03
Oct. 20		
COL	eP	21 33 32
Oct. 20		
GCA	eP	23 10 26
Oct. 20		
DCN	eP	23 51 23
COL	iP	23 47 44
EUR	iP	23 51 02
	e	51 33
FGU	iP	23 51 21
	i	51 41
GCA	iP	23 51 27
	i	52 01
HHM	iP	23 50 34
RCD	eP	23 51 27
Oct. 21		
GCA	iP	00 52 38
Oct. 21		
FGU	eP	01 30 06

Date and Station	Phase	(GCT)
		h m s
Oct. 21		
EUR	iP'	02 18 59
	i	19 25
FGU	iP'	02 19 01
SJP	eP'	02 19 42
TUC	eP'	02 19 17
TUT	eP'	02 19 17
Oct. 21		
GCA	e(P)	03 05 08
	i	05 35
Oct. 21		
EUR	iP	04 28 48
FGU	iP	04 28 30
	e	28 42
HHM	iP	04 29 18
SJP	iP	04 24 15
Oct. 21		
EUR	eP	05 58 30
FGU	eP	05 58 11
TUC	e(P)	05 57 19
TUT	eP	05 57 20
Oct. 21		
FGU	e(P)	06 31 50
	e	32 35
Oct. 21		
EUR	iP'	06 44 42
FGU	iP'	06 43 54
Oct. 21		
FGU	iP	07 10 08
Oct. 21		
COL	eP	08 37 17
Oct. 21		
FGU	eP	08 50 53
	i	52 41
Oct. 21		
COL	iP	09 50 26
	i	50 31
Oct. 21		
FGU	eP	10 15 10
Oct. 21		
EUR	iP	13 55 28
FGU	iP	13 55 16
HHM	iP	13 55 58

Date and Station	Phase	(GCT)
		h m s
Oct. 21		
TUT	eP	14 54 40
Oct. 21		
SJP	iP	15 07 25
Oct. 21		
FGU	eP	20 06 59
	i	07 48
Oct. 21		
COL	eP	22 02 39
Oct. 21		
SLC	eP	22 34 28
Oct. 21		
COL	iP	22 46 29
Oct. 21		
GCA	e(P)	23 01 57
Oct. 22		
GCA	eP	02 16 47
	i	16 50
Oct. 22		
COL	iP	03 33 00
EUR	e(P)	03 33 10
FGU	iP	03 32 54
GCA	eP	03 32 30
	e	32 38
TUT	eP	03 32 30
Oct. 22		
GCA	e(P)	06 01 14
	i	02 38
Oct. 22		
EUR	eP	07 04 49
	e(S)	06 48
	eL	08 25
FGU	e(P)	07 06 01
	e	07 58
	i	10 16
GCA	eP	07 04 17
	i	04 38
	i	06 32
	e	08 11
TUC	e(P)	07 03 37
	e	03 40
	eL	06 18
TUT	eP	07 03 41
	eL	06 12
Oct. 22		
FGU	iP	07 13 17
	i	13 42
Oct. 22		
BOZ	eP	08 35 21 D

Date and Station	Phase	(GCT)
		h m s
BUT	eP	08 35 17 D
COL	iP	08 34 23 D
	iS	44 39
EUR	iP	08 35 00 C
	i	35 17
	iPKKP	52 23
	i	53 05
	eP'P'	09 00 33
FGU	iP	08 35 22 C
	iP	35 46
GCA	eP	08 35 14
	ipP	35 37
	e	38 16
	ePKKP	52 25
	e	52 52
GUA	eP	08 27 51 D
	iP	28 02
HON	eP	08 31 03
	eL	46 40
HHM	iP	08 35 13 C
	iS	46 22
	eL	09 05 00
KIP	eP	08 30 57 D
RCD	eP	08 35 46 D
SLC	eP	08 35 15 D
SJP	eP'	08 41 10
TUC	eP	08 35 12
	eS	46 22
	eL	09 04 41
TUT	iP	08 35 13 C
UKI	iP	08 34 33 C
Oct. 22		
SJP	e(P)	08 45 03
Oct. 22		
HHM	e(P)	15 43 34
Oct. 22		
HHM	e(P)	18 59 26
Oct. 22		
HHM	iP	19 29 48
Oct. 22		
COL	iP	21 12 09
Oct. 22		
COL	iP	22 34 41
SJP	iP'	22 41 51
Oct. 23		
COL	eP	01 40 39

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Date and Station		Phase (GCT)
		h m s
EUR	eP	01 40 06
Oct. 23		
EUR	eP	03 44 24
	i	44 40
	eS	45 24
	eL	45 29
Oct. 23		
BCN	eP	06 42 34
BOZ	eP	06 41 55
COL	iP	06 43 27
	i	44 43
CSC	eP	06 39 08
EUR	iP	06 42 31
FGU	iP	06 41 53
	i	41 57
	e	43 00
GCA	eP	06 42 14
HHM	iP	06 42 05
RCD	eP	06 41 16
SLC	eP	06 42 08
SJP	eP	06 37 58
THU	eP	06 40 53
	e	41 07
TUC	eP	06 42 20
TUT	eP	06 42 19
Oct. 23		
BOZ	eP	07 04 15
FGU	e(P)	07 05 04
	i	05 28
	i	06 10
Oct. 23		
SLC	eP	09 00 02
Oct. 23		
COL	iP	10 02 29
EUR	eP	10 02 48
Oct. 23		
COL	iP	11 44 42
EUR	e(P)	11 48 11
HHM	e(P)	11 47 38
Oct. 23		
GCA	e(P)	12 02 15
	e	03 14
Oct. 23		
COL	iP	15 52 54
	i	53 06

Date and Station		Phase (GCT)
		h m s
HHM	iP	15 52 06
Oct. 23		
TUT	eP	21 12 50
Oct. 23		
COL	iP	21 59 16
CSC	eP	21 53 34
EUR	eP	21 55 35
FGU	iP	21 55 13
	i	55 31
GCA	e(P)	21 54 01
	e	54 58
HHM	iP	21 56 19
SJP	e(P)	21 53 41
Oct. 23		
FGU	iP	22 30 48
Oct. 24		
TUC	e(P)	00 25 02
	e	25 09
	i	25 30
Oct. 24		
EUR	iP	00 35 15
FGU	iP	00 35 40
GCA	eP	00 35 04
	e	35 09
TUC	eP	00 35 15
Oct. 24		
COL	eP	00 43 46
EUR	eP	00 49 37
Oct. 24		
BCN	iP	02 14 12
	iS	14 23
	iL	14 30
GCA	e(P)	02 15 02
	i	15 48
Oct. 24		
BOZ	eP	02 39 00
FGU	eP	02 40 00
Oct. 24		
SJP	e(P)	04 33 53
Oct. 24		
FGU	e(P)	04 57 01
Oct. 24		
BCN	eP	05 24 50
	epP	25 20

Date and Station		Phase (GCT)
		h m s
COL	iP	05 24 35
EUR	iP	05 24 51
	ipP	25 20
	iPP	28 23
	ePKKP	42 08
	eP'P'	50 27
FGU	eP	05 25 14
	epP	25 43
GCA	eP	05 25 02
	epP	25 31
HHM	eP	05 25 39
	e(PKKP)	42 12
	eP'P'	50 28
KIP	eP	05 21 17
	iP	21 18
SJP	eP'	05 31 07
TUT	eP	05 25 00
	ipP	25 30
Oct. 24		
COL	iP	05 58 16
Oct. 24		
SJP	e(P)	07 24 11
Oct. 24		
COL	eP	09 31 16
Oct. 24		
EUR	iP	10 01 58
Oct. 24		
COL	iP	10 38 20
Oct. 24		
EUR	iP	10 48 24
FGU	iP	10 48 26
Oct. 24		
GCA	e(P)	11 15 06
Oct. 24		
TUT	eP	11 45 34
Oct. 24		
EUR	iP	14 10 41
Oct. 24		
COL	eP	14 54 55
Oct. 24		
TUT	e(P)	15 41 55
	eL	44 02
Oct. 24		
COL	iP	17 21 35
GUA	iP	17 13 47
	iS	17 46

Date and Station		Phase (GCT)
		h m s
SJP	eP'	17 28 31
Oct. 24		
SJP	iP'	18 46 02
Oct. 24		
FGU	iP	19 36 17
	i	36 28
Oct. 24		
FGU	iP	22 57 43
	i	58 11
GCA	e(P)	22 55 47
	e	57 50
Oct. 24		
FGU	iP	23 07 16
	i	07 50
Oct. 25		
COL	iP	01 19 05
FGU	eP	01 18 55
GCA	eP	01 18 33
Oct. 25		
FGU	eP	01 34 57
Oct. 25		
COL	iP	02 11 24
	i	11 31
Oct. 25		
FGU	eP	02 52 15
Oct. 25		
GCA	e(P)	03 04 55
Oct. 25		
EUR	eP	04 49 32
FGU	eP	04 49 30
GCA	eP	04 49 02
	e	49 35
TUC	eP	04 48 19
TUT	eP	04 48 18
Oct. 25		
FGU	eP	05 02 30
	i	02 33
	iS	03 09
GCA	eP	05 02 34
	i	03 24
Oct. 25		
RCD	e(P)	08 16 53
Oct. 25		
COL	iP	09 49 05
EUR	iP	09 49 57

Date and Station		Phase	(GCT)
			h m s
FGU		eP	09 50 20
Oct. 25			
FGU		iP	10 22 11
		i	22 15
		iS	22 52
GCA		eP	10 22 23
		i	22 50
		iS	23 05
Oct. 25			
GCA		eP	10 44 44
		i	44 50
TUC		e(P)	10 44 41
TUT		eP	10 44 42
Oct. 25			
COL		e(P)	11 16 13
EUR		eP	11 19 29
HHM		e(P)	11 19 01
Oct. 25			
FGU		eP	12 16 02
		i	16 05
Oct. 25			
EUR		eP	12 27 52
FGU		eP	12 27 46
GCA		eP	12 27 33
TUC		eP	12 27 12
TUT		eP	12 27 12
Oct. 25			
GCA		eP	16 50 40
Oct. 25			
FGU		eP	19 24 27
		i	24 35
		i	25 54
HHM		iP	19 26 36
SJP		eP	19 22 09
TUT		eP	19 25 18
		e	25 39
Oct. 25			
FGU		iP	20 06 41
		iS	07 19
GCA		eP	20 06 27
		i	06 51
		iS	07 32
Oct. 25			
GCA		e(P)	20 23 55
		e	24 34
Oct. 25			
GCA		eP	21 33 55
Oct. 25			
FGU		iP	23 00 18
Oct. 25			
SLC		eP	23 53 46
		eS	54 16
Oct. 26			
COL		e(P)	01 54 02
Oct. 26			
COL		iP	01 57 28
EUR		iP	01 57 42
FGU		eP	01 58 00
HHM		e(P)	01 57 13
Oct. 26			
EUR		eP	02 18 38
Oct. 26			
EUR		iP	03 05 27
FGU		eP	03 05 20
HHM		iP	03 05 58
TUC		eP	03 05 45
Oct. 26			
FGU		e(P)	03 40 52
Oct. 26			
COL		eP	04 31 17
Oct. 26			
FGU		eP	04 42 04
TUT		e(P)	04 41 47
		eL	43 00
Oct. 26			
FGU		eP	04 47 06
GCA		e(P)	04 45 24
		e	45 29
Oct. 26			
COL		iP	05 02 20
GCA		eP	05 02 02
Oct. 26			
COL		eP	06 09 59
Oct. 26			
FGU		eP	06 15 05
Oct. 26			
FGU		eP	06 29 15
Oct. 26			
FGU		e(P)	07 18 27
		i	18 35
		i	19 23
Oct. 26			
FGU		iP	08 54 24
		i	54 45
Oct. 26			
COL		eP	09 14 14
		i	14 22
EUR		eP	09 17 43
TUT		e(P)	09 14 48
Oct. 26			
GCA		e(P)	09 22 34
TUT		e(P)	09 20 17
Oct. 26			
FGU		eP	12 00 35
TUT		e(P)	11 59 48
Oct. 26			
FGU		eP	12 11 50
Oct. 26			
GCA		eP	13 28 16
		i	28 33
Oct. 26			
DCH		eP	14 59 49
FGU		iP	14 59 56
HHM		iP	15 00 34
SJP		eP	14 56 35
Oct. 26			
FGU		eP	15 09 48
		e	10 46
Oct. 26			
TUT		iP	16 45 55
Oct. 26			
EUR		iP	16 47 58
FGU		iP	16 47 46
HHM		eP	16 48 30
		i	48 38
RCD		eP	16 47 46
SJP		eP	16 44 02
TUT		iP	16 47 10
		i	47 18
Oct. 26			
DCH		e(P)	17 21 16
TUC		e(P)	17 19 34
		i	19 43
		eL	20 33
TUT		eP	17 19 31
		eL	20 35
Oct. 26			
FGU		eP	17 24 40
		e	25 01
GCA		e(P)	17 23 20
		i	24 05
		e	26 07
Oct. 26			
COL		iP	17 46 12
FGU		iP	17 46 17
HHM		iP	17 46 19
Oct. 26			
FGU		e(P)	18 54 08
		i	54 47
Oct. 26			
FGU		eP	19 49 45
Oct. 27			
EUR		iP	00 28 34
FGU		eP	00 28 12
		i	28 24
GCA		eP	00 28 01
		e	28 13
HHM		iP	00 29 07
RCD		eP	00 28 20
SJP		eP	00 24 31
TUT		eP	00 27 39
		i	27 47
Oct. 27			
EUR		iP	00 37 56
FGU		iP	00 37 43
		i	37 51
GCA		iP	00 37 32
HHM		iP	00 38 27
		i	38 35
RCD		eP	00 37 41
SJP		eP	00 34 58
TUT		iP	00 37 06
Oct. 27			
COL		iP	03 30 07
EUR		iP	03 30 42
Oct. 27			
COL		eP	04 41 54
EUR		iP	04 44 22
HHM		iP	04 44 06

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Date and Station		Phase (GCT)	
		h m s	
Oct. 27			
FGU	iP	05 17 02	
Oct. 27			
FGU	iP	05 13 33	
Oct. 27			
BHP	iP	05 28 16	
	iS	32 13	
BCN	eP	05 32 48	
COL	eP	05 35 22	
CSC	eP	05 31 44	
EUR	iP	05 33 14	
FGU	eP	05 33 01	
	i	36 33	
GCA	eP	05 32 42	
HHM	eP	05 34 04	
RCD	e(P)	05 33 08	
SJP	eP	05 31 07	
TUC	eP	05 32 06	
TUT	eP	05 32 05	
Oct. 27			
FGU	iP	05 45 31	
Oct. 27			
FGU	iP	05 51 04	
Oct. 27			
FGU	eP	08 49 45	
Oct. 27			
FGU	e(P)	09 13 57	
Oct. 27			
COL	eP	10 48 17	
Oct. 27			
COL	eP	11 03 10	
SJP	eP'	11 11 07	
Oct. 27			
COL	iP	12 53 19	
THU	eP	12 49 30	
Oct. 27			
COL	eP	13 30 25	
Oct. 27			
COL	iP	14 44 20	
EUR	iP	14 47 58	
FGU	iP	14 47 48	
GCA	eP	14 48 04	
	i	48 17	

Date and Station		Phase (GCT)	
		h m s	
HHM	eP	14 46 50	
TUT	eP	14 48 49	
Oct. 27			
COL	eP	15 47 04	
THU	eP	15 43 07	
Oct. 27			
GUA	iP	16 26 21	
	iS	27 21	
	eT	30 29	
Oct. 27			
COL	eP	19 55 15	
Oct. 27			
GCA	e(P)	20 05 03	
	e	05 07	
	eS	06 01	
Oct. 27			
GCA	iP	21 39 37	
	i	40 40	
Oct. 27			
BCN	eP	22 39 21	
BUT	eP	22 39 55	
COL	iP	22 39 53	
	ipP	40 52	
GUA	iP	22 36 22	
	iPcP	37 42	
KIP	e(P)	22 36 01	
TUC	iP	22 39 27	
	epP	40 30	
TUT	iP	22 39 29	
	ipP	40 31	
Oct. 27			
COL	eP	22 49 10	
	i	49 52	
Oct. 27			
GCA	e(P)	23 22 04	
	e	24 24	
Oct. 28			
EUR	eP	02 42 21	
TUT	eP	02 42 26	
TUT	e(P)	02 42 26	
Oct. 28			
BCN	eP	04 28 56	
BOZ	eP	04 27 46	
BUT	eP	04 27 45	

Date and Station		Phase (GCT)	
		h m s	
COL	iP	04 26 27	
	iPP	28 08	
	iS	32 43	
CSC	eP	04 27 55	
EUR	iP	04 28 36	
GCA	iP	04 28 43	
HHM	iP	04 27 31	
RCD	eP	04 27 35	
SIC	eP	04 28 19	
SJP	eP	04 29 06	
THU	iP	04 22 25	
	eS	25 16	
TUC	iP	04 29 12	
TUT	eP	04 29 11	
Oct. 28			
EUR	iP	05 00 37	
GCA	e(P)	04 58 24	
Oct. 28			
BCN	e(P)	05 20 16	
EUR	eP	05 20 29	
GCA	eP	05 19 57	
	e	22 09	
TUC	e(P)	05 19 02	
	e	19 11	
	eL	20 08	
TUT	e(P)	05 19 01	
	i	19 16	
Oct. 28			
COL	e(P)	05 59 54	
	e	06 01 44	
Oct. 28			
BCN	eP	07 56 51	
COL	iP	07 54 22	
CSC	eP	07 55 48	
EUR	iP	07 56 31	
GCA	eP	07 56 17	
	e	56 38	
HHM	iP	07 55 26	
RCD	eP	07 55 30	
SIC	eP	07 56 14	

Date and Station		Phase (GCT)	
		h m s	
TUC	eP	07 57 07	
TUT	eP	07 57 06	
Oct. 28			
EUR	eP	10 13 33	
Oct. 28			
EUR	eP	12 21 32	
GCA	eP	12 20 45	
	e	20 55	
	eS	21 33	
Oct. 28			
COL	iP	13 09 46	
GUA	eP	13 01 45	
Oct. 28			
BCN	e(P)	13 13 23	
	e	14 18	
EUR	e(P)	13 14 26	
GCA	eP	13 13 49	
	i	14 29	
	eL	16 05	
TUC	eP	13 12 52	
	i	13 06	
	eL	13 55	
TUT	eP	13 12 54	
Oct. 28			
BCN	iP	13 28 24 C	
	e	28 38	
	ePP	30 39	
	eS	36 39	
	eP'P'	57 11	
	e	57 43	
BOZ	eP	13 27 53 C	
	eS	35 39	
BUT	iP	13 27 43 C	
	iS	35 22	
	e	37 18	
COL	iP	13 24 20 C	
	iS	29 08	
CSC	eP	13 30 18 D	
	epP	30 44	
	eS	40 10	
EUR	iP	13 28 03	
	eP'P'	56 57	
GCA	iP	13 28 30 C	
	ipP	28 57	
	i	31 16	
	e(P'P')	57 11	
	i	57 39	
GUA	e(P)	13 25 44	

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Date and Station		Phase (GCT)
		h m s
HON	iP	13 26 31 C
	ePP	28 18
	eS	33 06
	eL	36 34
	eT	59 54
HHM	iP	13 27 27 C
	ipP	27 55
	iPP	29 04
	iS	34 51
	eL	39 12
	eP'P'	57 36
KIP	iP	13 26 31 C
	iPP	28 20
	e	29 01
RCD	iP	13 28 25 C
	ePP	30 31
	iS	36 42
	eL	42 31
SLC	iP	13 28 12 C
	eS	36 19
SJP	iP	13 31 57 D
	epP	32 26
	ePP	36 01
	epPP	36 27
THU	iP	13 26 51 C
	ipP	27 16
	ePP	28 49
	eS	33 38
TUC	iP	13 28 56 C
	iS	37 41
	e	41 01
	eL	49 32
	eP'P'	57 25
	iP'P'	57 30
TUT	iP	13 28 56 C
	eP'P'	57 22
UKI	iP	13 27 34 C
	ePP	29 36
WAS	iP	13 30 03 C
	ipP	30 27
	iPP	33 05
Oct. 28 EUR	eP	13 47 28
Oct. 28 COL	eP	13 56 09
Oct. 28 SJP	i(P)	20 42 20
Oct. 28 TUT	eP	21 01 01
	i	01 51
Oct. 28 BCH	eP	22 41 33
BOZ	eP	22 40 01
	e	41 05

Date and Station		Phase (GCT)
		h m s
BUT	eP	22 41 09
COL	iP	22 38 26
	eS	45 40
EUR	eP	22 41 17
FGU	iP	22 41 34
	e	43 37
GCA	eP	22 41 40
	i	41 43
	ePP	44 45
GUA	iP	22 34 17
	ipP	34 39
	isP	34 51
	iS	28 07
HHM	eP	22 40 54
	i	41 12
RCD	e(P)	22 41 49
SLC	eP	22 41 28
TUC	eP	22 42 01
	i	42 14
	eL	23 08 45
TUT	eP	22 41 59
Oct. 29 FGU	iP	00 52 07
RCD	e(P)	00 51 44
	e	52 08
Oct. 29 COL	eP	01 38 16
Oct. 29 FGU	e(P)	01 54 17
	e	54 40
Oct. 29 BCH	eP	02 40 09
GCA	eP	02 41 01
	e	42 05
Oct. 29 BUT	eP	04 12 24
Oct. 29 BCH	eP	04 27 35
BOZ	eP	04 27 19
COL	iP	04 29 16
CSC	eP	04 24 05
EUR	iP	04 27 39
FGU	iP	04 27 06
	i	28 40

Date and Station		Phase (GCT)
		h m s
GCA	iP	04 27 17
HHM	iP	04 27 33
RCD	eP	04 26 37
SLC	eP	04 27 19
	e	27 33
SJP	eP	04 21 27
	e(S)	24 47
TUC	iP	04 27 12
TUT	eP	04 27 11
Oct. 29 BOZ	eP	04 43 39
Oct. 29 EUR	iP	05 24 48
Oct. 29 BCH	eP	05 34 33
EUR	eP	05 35 20
GCA	eP	05 35 01
	i	37 30
TUT	e(P)	05 35 32
Oct. 29 EUR	eP	05 48 06
Oct. 29 COL	iP	06 07 03
	iS	07 24
Oct. 29 COL	iP	06 07 59
	iS	08 20
Oct. 29 FGU	eP	07 36 56
Oct. 29 EUR	eP	08 16 29
FGU	eP	08 18 54
GCA	eP	08 19 17
Oct. 29 FGU	iP	08 37 24
GCA	iP	08 38 50
Oct. 29 FGU	e(P)	09 03 51
Oct. 29 BOZ	eP	09 50 02
	e	50 19
BUT	eP	09 49 56

Date and Station		Phase (GCT)
		h m s
COL	iP	09 49 58
EUR	iP	09 49 25
	i	49 43
FGU	iP	09 49 54
	i	50 12
GCA	iP	09 49 36
	e	49 54
	e	51 39
HHM	iP	09 49 58
KIP	eP	09 45 11
	i	45 27
RCD	eP	09 50 14
	e	50 37
TUC	eP	09 49 25
	iP	49 26
	i	49 44
TUT	eP	09 49 25
Oct. 29 EUR	iP	11 36 19
Oct. 29 COL	eP	12 04 17
EUR	iP	12 04 34
FGU	iP	12 04 01
GCA	eP	12 04 27
HHM	iP	12 03 48
	i	03 54
TUC	eP	12 04 45
TUT	e(P)	12 04 44
Oct. 29 COL	eP	12 38 13
Oct. 29 RCD	eP	13 20 12
Oct. 29 BOZ	eP	13 35 41
BUT	eP	13 35 46
COL	eP	13 36 09
GCA	e(P)	13 32 51
HHM	iP	13 35 41
SJP	eP	13 29 16
TUC	eP	13 32 40
TUT	e(P)	13 32 40

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Date and Station		Phase (GCT)
		h m s
Oct. 29		
FGU	iP	13 35 47
GCA	iP	13 36 20
	e	37 45
SJP	eP	13 34 11
TUC	iP	13 36 37
TUT	eP	13 36 37
Oct. 29		
FGU	iP	15 32 36
Oct. 29		
COL	eP	17 24 02
Oct. 29		
SLC	eP	19 18 23
	eS	18 44
Oct. 29		
EUR	eP	20 21 54
Oct. 29		
HBM	iP	20 56 41
SJP	eP	20 55 48
Oct. 29		
GUA	iP	21 45 42
	iS	46 30
	iT	48 27
Oct. 29		
COL	eP	23 23 45
Oct. 29		
COL	iP	23 48 46
EUR	iP	23 52 20
TUC	eP	23 53 14
	e	53 27
TUT	eP	23 53 13
Oct. 30		
COL	iP	00 49 20
	iS	49 37
Oct. 30		
FGU	eP	01 29 17
Oct. 30		
FGU	eP	02 00 37
Oct. 30		
FGU	e(P)	02 19 33
	e	19 57
Oct. 30		
TUT	eP	03 12 56
Oct. 30		
COL	iP	05 13 36
Oct. 30		
EUR	eP	03 29 57

Date and Station		Phase (GCT)
		h m s
FGU	e(P)	08 30 24
	e	33 44
TUC	e(P)	08 28 23
	i	28 37
	eL	29 15
TUT	eP	08 28 20
Oct. 30		
COL	i(P)	08 42 36
EUR	iP	08 42 53
	i	44 22
FGU	iP	08 42 21
	i	43 49
HBM	iP	08 42 08
	i	43 34
SJP	e(P)	08 40 37
TUC	eP	08 43 04
	e	44 32
TUT	eP	08 43 03
Oct. 30		
EUR	eP	09 09 43
TUT	e(P)	09 09 09
Oct. 30		
FGU	iP	09 53 57
Oct. 30		
COL	eP	10 34 42
Oct. 30		
EUR	iP	10 41 41
TUC	iP	10 41 42
Oct. 30		
DHP	iP	12 21 15
BCN	eP	12 25 59
BOZ	eP	12 26 33
BUT	eP	12 26 35
COL	eP	12 28 49
	e	32 59
CSC	eP	12 24 24
	eS	32 20
EUR	iP	12 26 17
FGU	eP	12 26 05
	i	26 07
	i	29 06
GUA	eP'	12 33 40
	iP'	34 10

Date and Station		Phase (GCT)
		h m s
HBM	iP	12 26 49
	e(PP)	30 06
	eS	36 58
RCD	eP	12 26 03
SLC	eP	12 26 14
	eS	35 47
SJP	iP	12 22 19
	i	22 30
	ePP	24 03
	ePcP	24 10
	ePPP	24 36
TUC	iP	12 25 28
	i	26 48
	eS	34 06
	iS	34 27
	eL	47 40
	eP'P'	54 05
TUT	eP	12 25 29
	epP	25 41
	eP'P'	54 00
UKI	iP	12 26 42
WAS	iP	12 24 55
	i	27 56
	iL	44 51
BUT	eP	13 23 55
EUR	iP	13 23 37
FGU	iP	13 23 24
	e	23 34
HBM	iP	13 24 10
	i	24 19
SJP	eP	13 19 39
	epP	19 50
TUC	iP	13 22 48
TUT	eP	13 22 48
Oct. 30		
GUA	eP	14 35 33
Oct. 30		
COL	eP	16 03 50
EUR	eP'	16 09 33
GUA	eP	15 55 56
SJP	eP'	16 10 54
Oct. 30		
COL	iP	16 22 40
EUR	iP	16 26 20
SLC	eP	16 26 30

Date and Station		Phase (GCT)
		h m s
TUC	eP	16 27 14
Oct. 30		
TUC	eP	16 48 47
Oct. 30		
HBM	e(P)	18 02 58
SJP	eP	18 01 40
Oct. 30		
BUT	eP	18 48 37
EUR	eP	18 48 19
FGU	iP	18 48 07
HBM	iP	18 43 50
SJP	eP	18 44 21
TUC	eP	18 47 29
Oct. 30		
FGU	eP	19 00 07
	i	00 30
Oct. 30		
COL	eP	20 01 42
EUR	eP	20 04 05
FGU	eP	20 05 28
Oct. 30		
COL	eP	20 40 22
EUR	eP	20 39 10
FGU	eP	20 40 37
GCA	eP	20 40 04
Oct. 30		
BHP	iP	21 39 28
	iS	44 47
BCN	eP	21 44 16
	e	44 42
BOZ	eP	21 44 43
	e	45 12
BUT	eP	21 45 14
COL	iP	21 46 57
	i	47 24
	iPP	51 20
EUR	iP	21 44 35
	i	45 00
	eP'P'	22 11 23
FGU	iP	21 44 21
	i	44 48
	e	51 42
	eP'P'	22 11 25
	e	11 47

Date and Station	Phase	Phase (GCT) h m s
GCA	iP	21 44 11
	e	44 39
GUA	iP'	21 52 26
	i	52 54
HHM	iP	21 45 04
	i	45 30
	eP'P'	22 11 36
RCD	iP	21 44 19
SLC	eP	21 44 28
	e	44 53
	e	45 14
SJP	iP	21 40 28
	i	40 52
	i	41 08
	iPP	42 09
	iPcP	42 28
	eScP	46 04
	eS	46 29
TUC	iP	21 43 46
	i	44 13
	eP'P'	22 12 03
	iP'P'	12 33
TUT	iP	21 43 47
	eP'P'	22 12 04
UKI	iP	21 44 56
	i	45 21
WAS	iP	21 43 04
	e	43 28
Oct. 30		
COL	iP	21 59 18
EUR	iP	22 03 29
FGU	eP	22 03 47
	i	03 49
GCA	eP	22 04 03
HHM	iP	22 02 49
TUC	eP	22 04 35
TUT	eP	22 04 35
Oct. 31		
COL	eP	00 47 28
Oct. 31		
BCN	eP	04 47 01
EUR	eP	04 47 46
Oct. 31		
FGU	eP	05 31 05
Oct. 31		
GCA	eP	06 08 53
	i	09 07
Oct. 31		
GCA	e(P)	06 35 08
TUT	e(P)	06 34 58
Oct. 31		
BCN	e(P)	07 05 12
	e(S)	06 10
	eL	06 57
BOZ	eP	07 07 30
COL	e(P)	07 12 37
	i	13 01
EUR	eP	07 05 59
FGU	eP	07 06 25
	iL	09 44
GCA	eP	07 05 23
	i	05 44
	iL	07 43
RCD	e(P)	07 07 33
SLC	e(P)	07 06 19
TUC	eP	07 04 29
	i	04 40
TUT	eP	07 04 30
Oct. 31		
COL	eP	07 08 51
	i	08 53
EUR	iP	07 12 19
HHM	iP	07 11 47
	i	13 52
	e	17 30
SJP	eP	07 17 05
Oct. 31		
GCA	e(P)	08 01 13
Oct. 31		
GCA	eP	10 02 22
Oct. 31		
GCA	eP	10 20 34
	e	22 40
TUT	eP	10 19 22
Oct. 31		
BOZ	eP	14 51 53
EUR	eP	14 52 09
	e(S)	53 04
	eL	53 10
GCA	eP	14 52 33
	e	52 49
	i	53 34
RCD	e(P)	14 52 51
	e	54 16
SLC	eP	14 51 32
	e	52 02
Oct. 31		
COL	e(P)	15 52 32
	i	52 40
	iS	53 10
	iL	53 15
EUR	iP	15 57 11
Oct. 31		
BHP	iP	19 16 33
	iS	16 50
EUR	iP	19 26 19
GCA	iP	19 25 47
Oct. 31		
COL	iP	21 00 31
EUR	iP	21 02 55
FGU	iP	21 03 40
GCA	iP	21 03 16
HHM	iP	21 02 41
Oct. 31		
CSC	eP	21 42 37
	e	43 00
	eS	50 30
Oct. 31		
COL	iP	23 49 55
	i	52 26
EUR	iP	23 53 48
	i	54 48
	iPP	55 46
RCD	eP	23 54 09
TUT	e(P)	23 52 50

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
October	
BUT	
3	02.4
12	11.7
17	04.9
23	07.1
	18.7
24	02.6
	03.2
	12.4
EUR	
3	02.7
4	05.6
	09.2
5	19.4
6	23.4
7	06.6
	11.6
8	12.8
	23.5
9	23.4
11	19.1
12	00.6
	04.0
	11.8
14	08.8
	12.6
	19.6
15	05.6
	05.8
	17.3
18	16.6
19	23.4
20	23.4
25	00.9
FGU	
11	08.5
	08.6
	08.8
	08.9
	09.8
	12.6
	13.2
	22.3
12	00.6
	01.5
	04.3
13	01.0
15	03.5
	05.8
	07.5
	08.2
	08.7
	09.1
	09.2
18	13.0
20	16.1
	20.9
21	00.9
23	09.0
31	14.9

Date and Station	Phase (GCT)
	h m s
GCA	
11	13.2
12	00.6
	01.5
13	01.0
18	13.1
HON	
9	03.5
IBBI	
20	08.2
	08.4
	15.0
23	07.1
24	02.7
SJP	
1	19.6
2	01.1
	10.5
3	04.0
	04.9
	05.6
	06.1
4	05.5
7	23.0
9	06.9
10	01.7
14	17.3
	22.5
16	08.8
26	00.4
30	02.5
TUC	
1	19.2
2	20.2
	23.0
	23.7
3	00.2
	02.2
	04.4
5	07.1
7	06.1
9	01.9
	06.3
	10.5
	11.2
10	02.1
12	00.6
	01.5
	04.0
13	08.8
15	12.7
	15.7
	21.9
17	00.6
22	07.0
	07.4
24	03.3
26	04.7
	09.2
	09.3
27	05.8
28	05.5
	21.0

Date and Station	Phase (GCT)
	h m s
29	02.7
	05.6
	05.9
	06.1
30	03.2
	13.5
31	00.9
	01.6
	03.7
	04.8
	06.6
	07.2
	10.3
	12.4
UKI	
5	20.8
	21.2
17	06.1
	19.5
23	03.7

Date and Station	Phase (GCT)
	h m s