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SEISMOLOGICAL BULLETIN

March, 1961

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COAST & GEODETIC SURVEY
20 1961
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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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March 4, 2011

1961

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. C. (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. Telemeter (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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Mar	h m s	°	°	
1	00 23 42.5	13.3 N.	143.2 E.	Mariana Islands region. h about 221 km.
1	03 24 10.4	30.9 S.	66.0 W.	LaRioja Province, Argentina. h about 259 km.
1	04 24 49.3	14.9 S.	178.8 W.	Fiji Islands. h about 392 km.
1	06 41 43.5	18.8 S.	177.9 W.	Fiji Islands region. h about 513 km.
1	13 13 41.4	08.0 S.	107.4 E.	Near coast of Java. Felt at Djakarta. h about 33 km.
1	13 47 37.2	07.5 S.	130.0 E.	Banda Sea. h about 25 km.
1	14 05 08.3	02.8 N.	126.5 E.	Molucca Passage. h about 61 km.
1	14 31 27.2	19.0 S.	12.2 W.	South Atlantic Ocean. h about 25 km.
1	19 26 13.5	13.8 N.	146.2 E.	Mariana Islands. h about 73 km.
1	23 42 43.8	2.8 S.	105.7 W.	About 900 miles west of Galapagos Islands. h about 59 km.
2	00 04 12.7	15.8 N.	92.2 W.	Mexico-Guatemala border. h about 98 km.
2	09 19 02.8	6.5 S.	155.8 E.	Solomon Islands region. h about 138 km.
2	11 01 10.6	3.9 S.	154.5 E.	Solomon Islands region. h about 407 km.
2	14 29 29.9	18.5 S.	179.8 W.	Fiji Islands. h about 600 km.
2	15 18 54.3	4.7 S.	106.3 W.	About 1000 miles west of Galapagos Islands. h about 25 km.
3	03 19 00.1	17.3 S.	168.0 E.	New Hebrides Islands. h about 42 km.
3	05 15 58.3	42.2 N.	143.9 E.	Hokkaido, Japan. h about 54 km.
3	06 25 37.9	23.0 S.	171.4 E.	Loyalty Islands region. h about 27 km.
3	08 17 30.6	32.0 S.	178.0 W.	Kermadec Islands region. h about 63 km.
3	09 46 18.9	5.6 S.	147.9 E.	Off coast of New Guinea. h about 25 km.
3	20 14 19.7	22.3 S.	171.6 W.	Loyalty Islands region. h about 61 km.
3	22 51 11.3	44.4 S.	75.2 W.	Off coast of southern Chile. h about 25 km.
3	23 54 55.6	37.2 S.	71.9 W.	Central Chile. h about 25 km.
4	07 41 37.3	51.9 N.	179.3 E.	Rat Islands, Aleutian Islands. h about 49 km.
4	10 19 33.7	20.4 S.	67.5 W.	Near Chile-Bolivia border. h about 109 km.
4	18 59 47.1	51.7 N.	168.1 W.	Fox Islands, Aleutian Islands. h about 25 km.
4	21 09 09.9	12.7 N.	88.0 W.	Near coast of El Salvador. h about 85 km.
4	22 26 01.2	37.8 N.	141.6 E.	Near east coast of Honshu, Japan. h about 61 km.
5	01 26 26.1	10.7 S.	161.6 E.	Solomon Islands region. h about 99 km. Mag. 6¼.
5	02 02 08.0	7.9 S.	115.0 E	Near coast of Java. h about 76 km.
5	10 39 50.8	17.8 S.	179.1 W.	Fiji Islands. h about 584 km.
5	19 42 16.6	3.9 S.	137.4 E.	New Guinea. h about 79 km.
5	21 26 23.6	21.0 S.	176.6 W.	Tonga Islands. h about 300 km.
6	12 13 30.4	48.0 N.	79.8 W.	Ontario Province, Canada. h about 25 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Mar	h m s	°	°	
7	02 47 25.8	28.8 N.	139.1 E.	South of Honshu, Japan. h about 25 km.
7	04 16 44.1	28.2 N.	142.8 E.	Bonin Islands region. h about 123 km.
7	06 43 04.5	44.5 S.	79.7 W.	Off southern coast of Chile. Felt at Iquique. h about 25 km.
7	10 10 38.9	28.3 S	175.7 W.	Kermadec Islands region. h about 43 km. Mag. 7¼-7½.
7	19 08 36.1	38.4 S.	78.1 E.	Indian Ocean. h about 30 km. Mag. 6.
7	19 48 41.5	28.1 S.	176.0 W.	Kermadec Islands region. h about 50 km.
7	23 11 59.6	4.7 S.	153.2 E.	New Britain region. Felt. h about 90 km.
8	00 17 58.9	52.7 N.	164.7 W.	Umimak Island, Aleutian Islands. h about 34 km.
8	03 27 16.2	4.1 S.	141.8 E.	New Guinea. Felt at Aitpic. h about 217 km.
8	05 28 35.0	30.0 S.	177.6 W.	Kermadec Islands. h about 43 km.
8	08 28 34.6	17.8 S.	178.7 W.	Fiji Islands region. h about 620 km.
8	12 52 28.8	40.0 S.	74.3 W.	Near southern coast of Chile. h about 96 km.
8	19 45 43.0	2.2 N.	128.3 E.	Halmahera. h about 370 km.
8	23 01 55.9	32.6 N.	141.7 E.	South of Honshu, Japan. h about 37 km.
9	03 59 08.7	10.9 N.	41.7 W.	Atlantic Ocean. h about 27 km.
9	11 35 42.2	14.2 S.	75.1 W.	Southern Peru. h about 25 km.
9	12 51 01.6	66.1 N.	155.5 W.	Central Alaska. h about 32 km.
10	03 00 45.5	52.1 S.	161.3 E.	Macquarie Islands region. h about 25 km.
10	15 31 37.2	23.5 S.	65.4 W.	Jujuy Province, Argentina. h about 118 km.
10	23 12 20.4	10.1 N.	83.6 W.	Near coast of Costa Rica. h about 56 km.
10	23 36 08.8	10.1 S.	161.4 E.	Solomon Islands region. h about 139 km.
11	01 27 00.4	53.1 N.	167.5 W.	Fox Islands, Aleutian Islands. h about 60 km.
11	01 31 34.4	48.7 N.	154.6 E.	Kurile Islands. h about 26 km. Mag 6½ (Berk).
11	02 25 22.8	16.0 S.	172.8 W.	Tonga Islands region. h about 25 km.
11	07 18 44.9	52.8 N.	168.6 W.	Fox Islands, Aleutian Islands. h about 40 km.
11	08 41 00.4	11.2 N.	43.3 E.	Near coast of British Somaliland. h about 18 km.
11	12 28 47.6	6.0 S.	155.8 E.	Solomon Islands region. h about 85 km.
11	16 54 21.5	6.8 S.	155.2 E.	Solomon Islands region. h about 104 km.
12	01 24 42.5	29.4 S.	69.6 W.	Central Chile-Argentina border. Felt at Santiago. h about 315 km.
12	02 49 33.4	17.4 N.	107.3 W.	Off west coast of Mexico. h about 57 km. Mag. 5¼-5½ (Berk).
12	04 09 03.3	5.3 S.	155.4 E.	Solomon Islands. h about 64 km.
12	12 09 10.7	19.2 N.	107.1 W.	Off west coast of Mexico. h about 64 km.
12	14 59 16.8	4.8 N.	129.0 W.	Off coast of northern California. h about 19 km.
12	23 21 42.5	28.4 S.	176.0 W.	Tonga Islands region. h about 113 km. Mag. 6¼-6½ (Berk).

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Mar	h m s	°	°	
13	04 37 13.4	5.2 S.	135.4 E.	Aroe Islands region. h about 229 km.
13	04 51 13.9	5.2 S.	153.3 E.	New Britain. h about 25 km.
13	07 43 25.9	25.4 S.	179.5 W.	Tonga Islands region. h about 449 km.
13	08 03 43.9	19.2 N.	107.3 W.	Off west coast of Mexico. h about 49 km. Mag. 6¼-6½.
13	09 16 26.5	29.3 S.	178.5 W.	Kermadec Islands region. h about 25 km.
13	10 06 56.0	5.5 S.	146.7 E.	New Britain region. h about 75 km.
13	15 31 56.0	35.8 N.	26.6 W.	Dodecanese Islands. h about 25 km.
13	19 17 16.0	34.5 N.	26.6 E.	Crete. h about 25 km.
13	20 35 12.7	56.1 S.	27.3 W.	Sandwich Islands. h about 25 km.
13	21 16 05.0	17.0 S.	177.7 W.	Fiji Islands. h about 435 km.
14	01 05 01.8	42.9 N.	140.2 E.	Off west coast of Hokkaido, Japan. h about 147 km.
14	01 11 55.4	16.9 S.	176.5 W.	Tonga Islands region. h about 60 km.
14	04 18 08.4	19.0 S.	172.6 W.	Tonga Islands. h about 25 km.
14	11 58 53.9	67.8 N.	164.9 W.	Bering Strait. h about 78 km.
14	13 49 37.5	22.1 S.	171.9 E.	New Hebrides Islands region. h about 42 km.
15	00 58 05.2	6.0 S.	151.6 E.	New Britain. h about 79 km.
15	10 14 55.5	3.3 S.	150.6 E.	New Ireland region. Felt at Rabaul. h about 21 km. Mag. 6.
15	13 01 02.2	4.4 S.	152.5 E.	New Britain. Felt at Karlai and Rabaul. h about 99 km.
15	16 11 56.8	4.6 S.	153.4 E.	New Britain region. h about 18 km.
15	16 17 15.3	27.7 N.	142.8 E.	Volcaño Islands. h about 55 km.
16	03 58 00.9	13.4 S.	165.8 E.	New Hebrides Islands. h about 53 km.
16	04 30 39.0	25.1 S.	180.0	Kermandec Islands region. h about 482 km.
16	04 58 00.4	51.7 N.	176.1 E.	Rat Islands, Aleutian Islands. h about 39 km.
16	07 15 41.7	6.6 S.	106.5 E.	Soenda Strait. h about 135 km.
16	07 52 39.6	19.0 S.	172.7 W.	Tonga Islands. h about 25 km.
16	11 19 43.5	6.4 S.	130.7 E.	Banda Sea. h about 77 km.
16	13 45 35.6	8.2 S.	122.0 E.	Flores Sea. Some causualities and major property damage at Ende. h about 74 km. Mag. 6¼.
16	15 26 56.2	50.0 N.	154.3 E.	Kurile Islands. h about 42 km.
16	18 21 12.2	8.1 S.	122.0 E.	Flores Islands. h about 43 km.
16	20 05 27.2	23.6 S.	176.0 W.	Tonga Islands region. h about 101 km.
16	22 33 16.8	23.5 S.	175.8 W.	Tonga Islands region. h about 25 km.
16	23 12 43.5	23.6 S.	175.5 W.	Tonga Islands region. h about 20 km.
16	23 31 27.2	10.5 S.	74.9 W.	Central Peru. h about 201 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Mar	h m s	°	°	
17	03 39 27.2	18.0 S.	69.0 W.	Chile-Bolivia border. h about 234 km.
17	04 51 08.9	8.4 S.	121.9 E.	Flores Sea. h about 66 km.
17	06 09 43.3	8.3 S.	122.3 E.	Near Flores Islands. h about 25 km.
17	10 06 28.1	11.1 S.	78.8 W.	Near coast of Peru. h about 60 km.
17	10 17 35.4	36.9 S.	74.8 W.	Off coast of central Chile. h about 70 km.
17	13 57 32.5	23.7 S.	176.0 W.	Tonga Islands region. h about 49 km.
17	14 06 56.4	24.1 S.	175.9 W.	Tonga Islands region. h about 123 km.
17	20 11 17.4	24.3 S.	175.6 W.	Tonga Islands region. h about 79 km. Mag. 6.
17	22 40 21.5	34.1 N.	141.0 E.	Off south coast of Honshu, Japan. h about 120 km.
18	02 08 39.4	8.5 S.	122.6 E.	Flores Sea. h about 25 km.
18	07 47 51.2	4.8 S.	153.8 E.	New Britain region. h about 157 km.
18	08 27 02.9	24.3 S.	174.2 W.	Tonga Islands region. h about 25 km.
18	09 28 35.4	20.5 S	174.2 W	Tonga Islands. h about 130 km.
18	09 40 40.7	29.0 S.	178.4 W.	Kermadec Islands region. h about 385 km.
18	10 16 51.1	29.7 N.	138.6 E.	South of Honshu, Japan. h about 477 km.
18	11 37 53.1	17.1 S.	170.5 W.	Tonga Islands region. h about 78 km.
18	13 16 09.2	16.8 S.	174.2 W.	Tonga Islands region. h about 25 km.
18	13 55 34.7	30.4 S.	71.1 W.	Near coast of central Chile. h about 53 km.
18	14 54 59.3	49.9 S.	163.3 E.	South of New Zealand. h about 38 km. Mag. 6¾-7.
18	17 39 34.3	7.6 S.	126.9 E.	Off east coast of Mindanao, Philippine Islands. h about 63 km.
18	20 06 54.5	24.4 N.	122.3 E.	Off east coast of Formosa. h about 25 km.
19	04 51 54.1	40.2 N.	143.2 E.	Off east coast of Honshu, Japan. h about 48 km.
19	04 59 19.3	6.4 S.	105.5 E.	Soenda Strait. Felt at Djakarta. h about 120 km.
19	07 14 57.8	16.0 S.	168.2 E.	New Hebrides Islands. h about 90 km.
19	07 51 33.4	2.1 N.	126.9 E.	Molucca Passage. h about 59 km.
19	09 18 50.7	36.8 S.	141.0 E.	Honshu, Japan. h about 75 km.
19	10 13 15.0	36.9 S.	75.7 W.	Off coast of central Chile. h about 40 km.
19	12 05 47.7	16.4 S.	167.3 E.	New Hebrides Islands. h about 16 km.
19	12 47 22.4	8.4 S	121.7 E.	Flores Sea. h about 46 km.
19	20 33 55.7	24.1 S.	176.1 W.	Tonga Islands region. h about 39 km.
20	02 17 34.5	21.6 N.	145.8 E.	Mariana Islands. h about 101 km.
20	03 30 28.3	36.7 N.	71.2 E.	Hindu Kush. h about 86 km.
20	06 16 21.1	11.3 N.	86.5 W.	Off west coast of Nicaragua. Felt at Managua. h about 60 km. Mag. 6-6¼.
20	11 27 05.4	16.4 N.	121.5 E.	Luzon, Philippine Islands. h about 30 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Mar.	h m s	°	°	
20	11 38 39.3	46.3 N.	142.7 E.	Sakhalin Islands. h about 354 km.
20	14 00 29.5	36.1 N.	77.9 E.	Northern India. h about 74 km.
20	15 53 26.1	18.4 S.	175.3 W.	Tonga Islands. h about 178 km. Mag. 6½-6¾.
20	23 42 36.8	24.1 S.	176.0 W.	Tonga Islands region. h about 25 km. Mag. 6¼.
21	04 33 53.7	21.9 S.	68.0 W.	Chile-Bolivia border. h about 42 km.
21	09 22 31.7	21.8 S.	179.9 W.	South of Fiji Islands. h about 595 km.
21	19 54 44.4	22.9 S.	171.3 E.	Loyalty Islands region. h about 19 km.
22	04 14 03.4	09.0 S.	157.9 E.	Solomon Islands. h about 41 km.
22	06 34 06.6	23.3 S.	176.0 W.	Tonga Islands region. h about 25 km.
22	13 56 59.5	18.1 S.	178.3 W.	Fiji Islands. h about 610 km.
22	14 19 46.5	11.8 N.	86.8 W.	Off west coast of Nicaragua. Felt at Managua. h about 172 km.
22	21 28 41.6	24.6 S.	179.3 E.	South of Fiji Islands. h about 517 km.
23	01 01 53.4	43.5 N.	12.6 E.	Italy. h about 25 km.
23	01 47 38.4	0.9 S.	120.2 E.	Celebes. h about 76 km.
23	12 53 28.8	6.9 S.	155.4 E.	Solomon Islands. h about 80 km.
23	20 56 28.3	6.3 S.	154.7 E.	Solomon Islands. h about 69 km.
24	02 13 14.1	8.5 S.	74.7 W.	Peru. h about 175 km.
24	05 17 48.0	6.0 S.	153.8 E.	Solomon Islands. h about 159 km.
24	19 10 39.8	9.9 N.	128.5 E.	Off north east coast of Mindanao, Philippine Islands. h about 194 km.
24	22 57 14.3	35.7 N.	140.9 E.	Near east coast of Honshu, Japan. h about 102 km.
24	23 37 17.1	2.6 S.	141.9 E.	Near north coast of New Guinea. h about 118 km.
25	02 10 13.2	2.1 S.	78.7 W.	Ecuador. h about 132 km.
25	14 14 38.4	17.0 S.	175.6 W.	Tonga Islands. h about 171 km.
25	16 09 40.4	16.6 N.	120.3 E.	Near north west coast of Luzon, Philippine Islands. h about 21 km.
25	20 58 31.7	37.4 S.	50.9 E.	South of Madagascar. h about 25 km.
26	01 21 57.4	16.2 N.	121.1 E.	Luzon, Philippine Islands. h about 43 km.
26	14 29 23.8	5.7 N.	126.4 E.	Mindanao, Philippine Islands. h about 147 km.
26	20 10 31.7	55.7 N.	164.0 W.	Unimak Island, Aleutian Islands. h about 50 km.
26	20 10 44.4	55.6 N.	163.8 W.	Bristol Bay. h about 175 km.
26	20 29 11.9	3.6 S.	145.1 E.	Off north east coast of New Guinea. h about 66 km.
26	23 11 38.9	30.6 N.	84.4 E.	Southern Tibet. h about 24 km.
27	04 22 48.3	4.8 S.	125.1 E.	Banda Sea. h about 43 km.
27	06 05 50.5	11.2 S.	166.2 E.	Santa Cruz Islands. h about 70 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Mar.	h m s	°	°	
27	09 00 39.7	36.6 S.	116.3 W.	Southwestern Neveda. h about 24 km. Mag. 4½.
27	16 29 52.9	30.7 S.	179.3 E.	Kermadec Islands. h about 514 km.
27	20 52 39.3	8.8 N.	104.2 W.	Pacific Ocean, about 700 miles south of Michoacan, Mexico. h about 26 km.
28	05 59 50.5	52.8 N.	167.7 W.	Fox Islands, Aleutian Islands. h about 49 km.
28	09 35 55.4	0.2 N.	123.6 E.	Northern Celebes. h about 83 km. Mag. 6¾-7.
28	12 29 12.7	51.7 N.	176.2 W.	Andreanof Islands, Aleutian Islands. h about 60 km. Mag 6¼.
28	13 13 03.5	0.4 S.	123.3 E.	Celebes. h about 75 km.
28	13 43 23.6	10.1 S.	161.0 E.	Solomon Islands. h about 89 km.
28	13 58 58.8	52.0 N.	176.0 W.	Andreanof Islands, Aleutian Islands. h about 89 km.
28	15 23 38.3	2.4 N.	126.1 E.	Molucca Passage. h about 120 km.
28	20 54 40.3	8.7 S	121.9 E.	Flores. h about 76 km.
28	21 01 56.2	22.1 S.	68.0 W.	Chile-Bolivia border. Felt at Antofagasta. h about 125 km. Mag. 6.
29	06 43 43.3	33.5 N.	140.9 E.	Near east coast of Honshu, Japan. h about 116 km.
29	09 35 02.1	0.1 N.	123.9 E.	Northern Celebes. h about 84 km.
29	18 10 24.4	37.1 N.	141.3 E.	Near east coast of Honshu, Japan. h about 127 km.
30	01 22 19.1	0.3 N.	123.9 E.	Northern Celebes. h about 159 km.
30	07 42 59.4	22.0 N.	107.8 W.	Gulf of California. h about 20 km. Mag. 5½ (Pal).
30	08 49 45.6	15.2 S.	172.8 W.	Samoa Islands region. Felt at Apia. h about 25 km. Mag. 5¾-6.
30	11 06 10.5	22.2 N.	107.8 W.	Gulf of California. h about 37 km.
30	12 00 12.8	32.4 N.	103.8 E.	Szechwan Province, China. h about 81 km.
31	05 20 18.3	31.2 N.	135.1 E.	South of Honshu, Japan. h about 280 km.
31	11 02 34.9	43.7 N.	101.6 E.	Outer Mongolia. h about 25 km.
31	23 18 51.3	29.7 S.	66.4 W.	LaRioja Province, Argentina. h about 35 km.

Date and Station		Phase (GCT) h m s
Mar. 1		
GUA	eP	00 24 16
	eS	24 39
Mar. 1		
COL	iP	00 34 48
EUR	iP	00 36 21
	e	36 43
FGU	eP	00 36 41
Mar. 1		
COL	eP	02 35 45
EUR	iP	02 39 14
	i	39 24
HHM	e(P)	02 38 44
Mar. 1		
EUR	iP	03 36 17
	ipP	37 00
FGU	eP	03 36 06
	ipP	37 08
GCA	iP	03 36 02
HHM	iP	03 36 45
	epP	37 29
TUC	iP	03 35 33
	iPcP	35 45
Mar. 1		
COL	iP	04 36 33
Mar. 1		
COL	eP	04 46 37
EUR	iP	04 50 03
FGU	eP	04 50 27
HHM	eP	04 49 33
	i	51 40
Mar. 1		
COL	iP	06 53 37
EUR	iP	06 53 14
	epP	54 50
FGU	eP	06 53 38
HHM	e(P)	06 53 41
TUC	iP	06 53 15
	epP	55 15
TUT	eP	06 53 15
Mar. 1		
COL	eP	07 24 05
Mar. 1		
COL	iP	13 01 33

Date and Station		Phase (GCT) h m s
EUR	iP	13 05 12
	i	05 26
FGU	e(P)	13 05 29
RCD	eP	13 05 37
Mar. 1		
COL	iP	13 31 46
Mar. 1		
EUR	eP'	13 32 44
HHM	eP'	13 32 38
Mar. 1		
COL	iP	14 00 54
Mar. 1		
COL	iP	14 17 44
Mar. 1		
COL	eP	16 21 09
Mar. 1		
BCN	eP	19 39 07
DUT	eP	19 39 00
COL	iP	19 37 05
	i	37 25
EUR	iP	19 38 57
FGU	iP	19 39 27
GUA	eP	19 26 38
HHM	iP	19 38 51
TUT	eP	19 39 24
Mar. 1		
BCN	eP	20 26 23
EUR	iP	20 26 14
	i	37 25
RCD	e(P)	20 27 54
SIC	eP	20 25 34
TUC	eP	20 27 18
TUT	eP	20 27 02
	eS	28 48
Mar. 1		
COL	eP	21 32 19
	e	34 26
Mar. 1		
BCN	eP	23 50 14
BOZ	eP	23 51 28
COL	eP	23 54 19

Date and Station		Phase (GCT) h m s
EUR	iP	23 50 43
FGU	iP	23 50 48
	ePP	52 36
GCA	e(P)	23 50 20
HHM	eP	23 51 45
RCD	eP	23 51 12
TUC	eP	23 49 39
	ePP	50 53
	ePPP	51 08
	eS	55 11
	eL	59 56
TUT	eP	23 49 37
Mar. 2		
BCN	eP	00 10 02
COL	iP	00 14 21
	ipP	14 46
	isP	14 57
	iPcP	15 19
CSC	eP	00 08 51
EUR	iP	00 10 29
	isP	11 12
	iPcP	13 15
FGU	iP	00 10 09
	iSP	10 44
GCA	eP	00 09 53
	esP	10 36
HHM	iP	00 11 16
	iPcP	13 31
TUC	eP	00 09 32
	epP	09 52
Mar. 2		
COL	eP	00 22 39
Mar. 2		
COL	e(P)	01 16 58
Mar. 2		
COL	iP	01 24 20
EUR	iP	01 28 11
FGU	eP	01 28 28
Mar. 2		
TUT	eP	01 40 25
Mar. 2		
BCN	eP	03 54 01
Mar. 2		
FGU	eP	04 08 03

Date and Station		Phase (GCT) h m s
Mar. 2		
COL	iP	04 45 15
Mar. 2		
COL	iP	09 31 12
	i	31 23
EUR	iP	09 32 05
Mar. 2		
COL	iP	11 12 42
EUR	eP	11 13 42
Mar. 2		
COL	eP	11 59 57
	i	12 00 11
Mar. 2		
TUT	e(P)	12 15 53
Mar. 2		
SJP	i(P)	13 26 56
Mar. 2		
EUR	eP	13 47 04
Mar. 2		
COL	iP	13 52 36
EUR	iP	13 55 01
	i	55 26
FGU	eP	13 55 25
	i	55 38
Mar. 2		
BOZ	eP	15 27 54
COL	eP	15 30 41
EUR	iP	15 27 13
FGU	iP	15 27 17
HHM	iP	15 28 16
RCD	iP	15 27 42
SIC	eP	15 27 18
TUC	eP	15 26 07
	e	26 37
	ePP	27 30
	eS	31 41
	eL	35 00
TUT	eP	15 26 07
Mar. 2		
COL	eP	18 45 07
Mar. 2		
COL	iP	20 26 45
Mar. 2		
COL	iP	20 54 31

Date and Station		Phase	(GCT)
			h m s
EUR		eP	20 51 55
FGU		iP	20 51 39
		e	52 04
TUT		eP	20 51 01
Mar. 2			
COL		iP	22 59 13
Mar. 3			
COL		iP	00 28 18
Mar. 3			
COL		iP	01 24 26
EUR		e(P)	01 28 20
Mar. 3			
COL		iP	02 13 53
Mar. 3			
EUR		eP	03 05 09
TUC		eP	03 03 57
TUT		eP	03 03 57
Mar. 3			
COL		eP	03 31 53
EUR		e(P)	03 32 08
Mar. 3			
COL		eP	03 56 47
		i	57 29
EUR		e(P)	03 48 16
TUT		eP	03 47 02
Mar. 3			
COL		iP	04 53 54
Mar. 3			
COL		iP	05 23 59
EUR		iP	05 27 12
HHM		eP	05 26 45
RCD		e(P)	05 27 38
THU		i(P)	05 25 58
Mar. 3			
HON		e(P)	05 51 23
Mar. 3			
COL		eP	06 38 49
		i	39 09
		i	39 57
EUR		eP	06 38 47
FGU		e(P)	06 39 22
GCA		e(P)	06 39 02
SJP		eP'	06 44 45

Date and Station		Phase	(GCT)
			h m s
TUC		iP	06 38 51
		e	39 39
Mar. 3			
COL		eP	07 32 14
Mar. 3			
EUR		eP	08 30 33
TUC		eP	08 30 29
TUT		eP	08 30 29
Mar. 3			
EUR		eP	09 20 59
Mar. 3			
COL		eP	09 38 56
Mar. 3			
COL		iP	09 58 49
EUR		iP	09 59 55
		ePP	10 03 54
HHM		eP	10 00 01
SJP		eP'	10 05 54
Mar. 3			
COL		eP	13 38 57
Mar. 3			
COL		eP	13 44 16
Mar. 3			
COL		iP	14 00 53
Mar. 3			
COL		iP	16 12 17
		i	13 42
EUR		eP	16 13 16
Mar. 3			
COL		eP	20 27 27
EUR		eP	20 27 24
Mar. 3			
COL		iP'	23 10 04
EUR		iP	23 04 15
FGU		eP	23 03 58
GCA		eP	23 03 58
SJP		eP	23 01 35
TUT		eP	23 03 35
Mar. 4			
EUR		eP	00 07 39
FGU		iP	00 07 33
Mar. 4			
COL		eP	00 54 14

Date and Station		Phase	(GCT)
			h m s
Mar. 4			
COL		eP	01 19 00
EUR		e(P)	01 15 18
Mar. 4			
EUR		eP	02 37 44
Mar. 4			
GUA		eP	07 30 30
Mar. 4			
COL		eP	07 46 26
EUR		iP	07 49 57
		iPcP	51 35
FGU		eP	07 50 19
HHM		eP	07 49 24
TUC		eP	07 50 57
		e	51 08
Mar. 4			
COL		eP	09 18 35
Mar. 4			
COL		eP	10 11 11
Mar. 4			
BOZ		eP	10 31 17
EUR		iP	10 31 06
		ipP	31 34
FGU		iP	10 30 52
		epP	31 19
GCA		iP	10 30 32
HHM		iP	10 31 36
		ipP	32 05
RCD		iP	10 30 50
		epP	31 17
		ePP	33 27
SLC		eP	10 30 59
SJP		iP	10 26 51
		ipP	27 18
		isP	27 32
TUC		iP	10 30 16
		ipP	30 44
		isP	30 56
		ePP	32 45
		ePPP	34 20
TUT		eP	10 30 17
Mar. 4			
COL		iP	10 53 01
Mar. 4			
COL		eP	12 17 04
EUR		eP	12 15 54

Date and Station		Phase	(GCT)
			h m s
Mar. 4			
COL		eP	14 32 50
Mar. 4			
HHM		iP	16 06 23
Mar. 4			
EUR		eP	18 07 01
		e(L)	08 55
HHM		iP	18 06 00
		i(L)	07 11
Mar. 4			
TUC		eP	18 20 52
Mar. 4			
COL		eP	18 42 15
Mar. 4			
COL		iP	19 03 44
EUR		iP	19 07 03
		iPcP	09 17
HHM		iP	19 06 35
		iPcP	09 07
TUC		eP	19 07 15
Mar. 4			
COL		iP	20 15 10
EUR		iP	20 14 50
Mar. 4			
COL		eP	20 47 22
		i	47 43
EUR		e(P)	20 41 45
Mar. 4			
BUT		eP	21 16 34
BOZ		eP	21 16 27
COL		eP	21 19 49
		ipP	20 08
		iPP	22 20
EUR		iP	21 16 12
FGU		iP	21 15 49
GCA		e(P)	21 14 49
HHM		iP	21 16 54
RCD		eP	21 15 50
		esP	16 55
SLC		eP	21 16 00
SJP		iP	21 14 17
		iPP	15 37
TUC		eP	21 15 04
		e(sP)	15 40

Date and Station		Phase (GCT) h m s
Mar. 4		
COL	iP	22 34 39
	ipP	34 50
EUR	iP	22 37 42
	i	38 02
FGU	iP	22 37 59
HHM	iP	22 37 17
THU	iP	22 36 34
Mar. 4		
COL	eP	23 34 02
Mar. 5		
BOZ	eP	01 39 46
BUT	eP	01 39 40
COL	iP	01 38 50
	ipP	39 06
	ePP	41 40
EUR	iP	01 39 25
	ipP	39 36
	ePP	42 51
	ePKKP	57 31
FGU	eP	01 39 48
GCA	eP	01 39 37
	ePP	43 22
HHM	iP	01 39 38
KIP	iP	01 35 20
RCD	eP	01 40 10
SLC	eP	01 39 41
SJP	iP'	01 45 36
	i(pP)	45 48
	isKP	48 42
	iP'P'	02 05 51
TUC	iP	01 39 37
	epP	40 01
	ePP	43 27
	ePPP	45 33
	e(S)	50 32
	eL	02 08 30
Mar. 5		
COL	iP	04 54 02
Mar. 5		
COL	iP	05 44 09
Mar. 5		
COL	iP	06 08 11
Mar. 5		
EUR	iP	06 32 00
Mar. 5		
COL	iP	08 59 39

Date and Station		Phase (GCT) h m s
Mar. 5		
TUC	eP	09 14 43
Mar. 5		
COL	iP	10 51 29
	ipP	53 41
EUR	iP	10 51 12
TUC	iP	10 51 15
Mar. 5		
COL	iP	12 07 34
	i	07 47
Mar. 5		
EUR	eP	13 06 45
	eL	08 26
GCA	eP	13 06 30
	i	07 52
TUC	eP	13 06 02
	i	06 13
	e(L)	07 10
Mar. 5		
COL	iP	13 59 56
Mar. 5		
EUR	e(P)	14 39 27
Mar. 5		
EUR	e(P)	17 04 40
Mar. 5		
COL	iP	19 54 54
	i	55 09
Mar. 5		
COL	eP	20 08 08
Mar. 5		
BUT	eP	21 38 41
COL	iP	21 38 42
	epP	39 02
	isP	39 31
EUR	iP	21 38 14
	ipP	39 00
	isP	39 15
FGU	eP	21 38 39
	esP	39 23
GUA	iP	21 34 59
HHM	iP	21 38 44
RCD	eP	21 39 04
TUC	iP	21 38 12
	epP	38 21
	e(sP)	38 58
Mar. 5		
BOZ	eP	22 51 46

Date and Station		Phase (GCT) h m s
BUT	iP	22 51 54
	iS	52 07
FGU	eP	22 52 38
	eS	53 36
HHM	e(P)	22 52 25
	iS	52 35
	iL	53 26
Mar. 5		
COL	iP	23 33 46
Mar. 6		
FGU	eP	00 15 09
Mar. 6		
TUC	eP	00 40 54
Mar. 6		
COL	iP	05 11 42
Mar. 6		
COL	eP	05 45 10
Mar. 6		
HHM	eP	08 33 11
Mar. 6		
RCD	e(P)	08 48 04
Mar. 6		
COL	eP	10 27 31
Mar. 6		
COL	iP	12 20 56
EUR	e(P)	12 19 16
FGU	eP	12 18 25
HHM	iP	12 18 31
RCD	e(P)	12 21 46
Mar. 6		
COL	eP	13 25 15
Mar. 6		
COL	iP	14 36 09
Mar. 6		
EUR	i(P)	14 51 57
Mar. 6		
EUR	e(P)	15 13 48
Mar. 6		
COL	eP	19 58 25
Mar. 6		
COL	eP	22 03 10
Mar. 6		
COL	eP	22 40 40
	i	42 54
	i	43 05

Date and Station		Phase (GCT) h m s
Mar. 7		
FGU	eP	01 24 35
HHM	eP	01 24 36
	i	24 46
	iL	25 43
Mar. 7		
COL	iP	02 57 14
	epP	57 30
EUR	iP	02 59 47
	i(sP)	03 01 25
FGU	eP	03 00 04
	e	01 41
HHM	iP	02 59 30
	esP	03 01 05
Mar. 7		
FGU	eP	03 32 19
	i	32 22
Mar. 7		
BUT	eP	04 28 42
COL	eP	04 26 16
EUR	eP	04 28 48
	epP	29 16
FGU	eP	04 29 06
HHM	e(P)	04 28 31
RCD	eP	04 29 19
TUT	e(P)	04 29 25
Mar. 7		
COL	iP	05 21 58
Mar. 7		
COL	eP	05 53 07
EUR	eP	05 56 39
FGU	eP	05 56 59
HHM	e(P)	05 56 24
Mar. 7		
SJP	iP	06 28 15
Mar. 7		
CSC	eP	06 55 05
EUR	eP	06 56 03
FGU	eP	06 56 07
	e(pP)	56 21
RCD	e(P)	06 56 04
SLC	eP	06 56 03
SJP	e(P)	06 53 35

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Date and Station		Phase (GCT) h m s
TUC	eP	06 55 20
	epP	55 34
	ePP	58 20
	e	07 01 08
TUT	e(P)	06 55 25
Mar. 7		
COL	eP	08 24 18
	e	25 39
EUR	iP	08 29 42
HHM	iP	08 28 44
Mar. 7		
BHP	iP	10 24 17
	i	26 20
BOZ	eP	10 23 57 D
	ePP	27 46
	eS	33 48
	eL	49 18
BUT	eP	10 23 52 D
	ePP	27 37
	eS	34 23
	eL	48 11
COL	iP	10 24 01 D
	iPP	27 52
	eS	34 35
	iL	40 55
CSC	eP	10 28 17 D
	e(pP)	28 32
	eS	35 39
	e(L)	38 55
EUR	iP	10 23 25 D
	iPP	26 50
	i(S)	34 03
	iPKKP	41 19
	iP'P'	49 24
FGU	iP	10 23 47 D
	iPP	27 18
	iPKKP	41 04
GCA	iP	10 23 32
	i	24 12
	ePP	28 43
	e	30 44
	e(S)	34 29
GUA	eP	10 20 22
HON	eP	10 19 48
	iS	27 26
HHM	iP	10 23 56 D
	iPP	27 44
	iS	34 32
	iPKKP	40 59
	eP'P'	49 09
KIP	eP	10 19 51

Date and Station		Phase (GCT) h m s
RCD	iP	10 24 13 D
	e	26 15
	ePP	27 08
	eS	34 03
SLC	eP	10 23 40 D
	eS	34 15
	ePKKP	40 47
	eP'P'	48 17
SJP	eP'	10 29 18
	iPKKP	39 55
STT	eP	10 23 46 D
	ePP	27 24
	eS	34 32
	ePKKP	40 40
THU	iP'	10 29 40 D
	epP	29 56
TUC	iP	10 23 19 D
	ePP	26 46
	ePPP	28 37
	e	39 34
	ePKKP	41 14
	eL	46 00
TUT	eP	10 23 20
	ipP	23 33
	iPP	26 26
	i(PPP)	28 28
	e	33 20
	eS	34 23
	e	35 07
	e	37 02
UKIAH	eP	10 23 03 D
WASH	e(P)	10 25 11 D
	ePP	28 48
	i	30 06
	ePKKP	39 29
	e(P'P')	47 36
	e	11 04 46
Mar. 7		
COL	eP	11 52 25
Mar. 7		
COL	eP	14 34 08
Mar. 7		
COL	iP	16 21 26
Mar. 7		
HHM	iP	17 32 43
Mar. 7		
COL	i(P)	18 17 56
Mar. 7		
COL	iP	19 24 55
	e	27 13
FGU	eP'	19 28 50
	e	30 16
	ePP	34 09
	e(SKKS)	37 30

Date and Station		Phase (GCT) h m s
GCA	e(P')	19 28 49
	e	30 18
HHM	e(P')	29 52
	ePP	33 30
RCD	eP'	19 28 48
TUC	iP'	19 28 53
	i	30 09
	iPP	33 58
	ePPP	38 37
	eL	20 31 00
TUT	eP'	19 28 49
	ePP	33 39
Mar. 7		
RCD	e(P)	19 52 32
Mar. 7		
COL	iP	20 02 04
TUT	eP	20 01 23
Mar. 7		
HON	e(P)	20 15 04
Mar. 7		
COL	iP	21 59 50
	i	22 01 08
Mar. 7		
COL	iP	23 24 11
	ipP	24 34
	esP	24 44
	ePP	27 29
GUA	iP	23 16 30
	iS	20 25
HHM	eP	23 25 18
SJP	eP'	23 31 25
Mar. 7		
COL	eP	23 50 17
	e	53 05
Mar. 8		
BOZ	eP	00 24 52
COL	iP	00 21 29
	iS	24 46
FGU	iP	00 25 22
	i	25 50
	i(PcP)	27 31
HHM	iP	00 24 25
	ipP	24 35
RCD	eP	00 25 48
SJP	iP	00 30 09
	ipP	30 19

Date and Station		Phase (GCT) h m s
THU	e(P)	00 25 42
TUC	iP	00 26 01
	ipP	26 10
	i	26 31
TUT	eP	00 26 01
Mar. 8		
COL	iP	03 39 33
	i	40 04
	ePP	42 48
SJP	iP'	03 46 46
	i	47 18
	ipP'	47 30
Mar. 8		
GUA	eP	03 50 08
Mar. 8		
COL	eP	05 42 03
SJP	eP'	05 47 47
TUC	eP	05 41 25
	ipP	41 37
TUT	eP	05 41 26
Mar. 8		
GCA	eP	06 54 07
	i	55 55
Mar. 8		
COL	iP	07 10 14
	e	11 00
Mar. 8		
COL	iP	08 42 21
Mar. 8		
BUT	eP	13 05 32
COL	iP	13 10 09
	i	10 19
FGU	iP	13 05 06
GCA	eP	13 04 54
HHM	iP	13 05 44
	i	05 54
TUC	iP	13 04 30
	ipP	04 56
TUT	iP	13 04 31
Mar. 8		
GCA	e(P)	14 08 53
Mar. 8		
COL	iP	18 34 06
Mar. 8		
COL	eP	19 57 44

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Date and Station		Phase (GCT)
		h m s
Mar. 8		
TUT	e(P)	21 56 25
Mar. 8		
COL	eP	23 11 11
EUR	eP	23 14 57
FGU	eP	23 14 15
GUA	eP	23 06 26
HHM	e(P)	23 13 42
	i	13 52
Mar. 8		
GUA	eP	23 32 27
Mar. 9		
EUR	e(P)	02 11 53
	i	12 08
	iL	13 12
TUC	eP	02 14 16
TUT	e(P)	02 14 23
Mar. 9		
COL	eP	02 53 54
Mar. 9		
CSC	eP	03 40 21
Mar. 9		
BOZ	eP	04 10 09
BUT	eP	04 10 15
COL	iP	04 11 54
CSC	eP	04 07 07
EUR	iP	04 10 26
	i(pP)	10 39
	iPP	13 05
FGU	eP	04 09 57
	i(pP)	10 10
	e	11 16
	ePP	13 22
GCA	eP	04 10 09
	i(pP)	10 19
HHM	iP	04 10 23
	i(pP)	10 34
RCD	eP	04 09 31
	i(pP)	09 43
SLC	eP	04 10 09
SJP	eP	04 04 33
	i(pP)	04 43
	ePP	05 08
	i	05 28
THU	e(P)	04 10 02

Date and Station		Phase (GCT)
		h m s
TUC	iP	04 10 01
	i(pP)	10 12
	ePP	13 19
	ePPP	14 56
TUT	iP	04 10 00
Mar. 9		
COL	iP	04 48 11
Mar. 9		
COL	iP	07 14 45
	iS	14 58
Mar. 9		
COL	i(P)	07 53 37
Mar. 9		
COL	iP	08 25 01
Mar. 9		
COL	iP	08 36 48
	i	37 17
	i	37 38
Mar. 9		
COL	eP	09 21 12
Mar. 9		
EUR	eP	11 46 17
FGU	eP	11 46 12
TUT	eP	11 45 32
Mar. 9		
COL	iP	12 51 52
	iS	52 46
EUR	eP	12 57 51
FGU	eP	12 58 01
HHM	iP	12 56 52
TUC	eP	12 59 02
TUT	e(P)	12 59 01
Mar. 9		
COL	iP	13 07 37
Mar. 9		
TUT	eP	14 20 22
Mar. 9		
COL	iP	14 50 01
Mar. 9		
WAS	e(P)	14 59 34
	e	15 00 18
Mar. 9		
GUA	iP	18 10 31
Mar. 9		
COL	iP	21 38 21

Date and Station		Phase (GCT)
		h m s
Mar. 9		
BHP	i(P')	22 02 18
EUR	iP	21 56 11
	i	56 31
	i	57 57
FGU	eP	21 56 14
GCA	eP	21 55 45
HHM	iP	21 57 13
RCD	eP	21 56 39
Mar. 10		
COL	eP'	03 19 35
Mar. 10		
COL	eP	03 42 01
EUR	iP	03 45 32
	i	45 44
Mar. 10		
COL	iP	09 59 04
Mar. 10		
EUR	iP	10 02 22
	i	02 42
HHM	eP	10 01 54
Mar. 10		
COL	iP	11 01 57
Mar. 10		
COL	iP	11 11 17
Mar. 10		
COL	iP	11 36 28
Mar. 10		
EUR	e(P)	14 59 15
Mar. 10		
BCN	eP	15 12 37
EUR	e(P)	15 13 04
	i	13 16
FGU	e(P)	15 13 09
	e	13 17
TUT	eP	15 11 32
Mar. 10		
EUR	iP	15 43 31
HHM	i(P)	15 43 59
Mar. 10		
COL	eP	15 53 22
Mar. 10		
COL	iP	16 46 29
	i	46 36

Date and Station		Phase (GCT)
		h m s
Mar. 10		
BHP	iP	17 03 21
	iS	03 31
Mar. 10		
BCN	eP	18 46 26
Mar. 10		
EUR	eP	19 58 22
	e	59 21
Mar. 10		
COL	eP	20 20 19
Mar. 10		
COL	iP	20 55 44
EUR	iP	20 59 17
Mar. 10		
COL	iP	22 49 45
Mar. 10		
BHP	iP	23 13 21
	iS	14 00
BOZ	eP	23 20 16
BUT	eP	23 20 23
COL	iP	23 23 30
	ipP	23 42
	e	29 05
CSC	eP	23 17 33
EUR	iP	23 20 04
	ipP	20 19
	i(ScP)	24 41
FGU	eP	23 19 25
	i(pP)	19 39
	ePP	21 20
	escP	24 41
HHM	iP	23 20 42
RCD	eP	23 19 37
	e	23 05
	e(ScP)	23 22
TUT	eP	23 18 59
	eS	23 05
Mar. 10		
BCN	eP	23 49 01
COL	iP	23 48 26
	epP	48 54
EUR	iP	23 49 02
	ipP	49 23
FGU	eP	23 49 25
HHM	iP	23 49 15
TUT	eP	23 49 15

Date and Station		Phase	h m s
Mar. 11			
COL		iP	00 17 52
Mar. 11			
COL		e(P)	00 40 20
Mar. 11			
EUR		e(P)	01 16 34
TUC		eP	01 16 30
TUT		eP	01 16 30
Mar. 11			
COL		iP	01 30 38
EUR		iP	01 34 09
		iPcP	36 27
FGU		eP	01 34 28
GCA		eP	01 34 38
HHM			01 33 37
Mar. 11			
BCN		eP	01 42 10
BOG		eP	01 41 42
BUT		eP	01 41 34
COL		iP	01 38 18
		e	41 31
		i(G)	43 40
GCC		eP	01 44 04
EUR		iP	01 41 51 C
		iPP	44 11
		i(S)	50 30
		eP'P'	02 11 00
FGU		eP	01 42 08
		i	42 36
		e	47 45
		e(S)	50 34
GCA		eP	01 42 20
		i	42 32
		i	42 46
HGN		eP	01 40 16
		iS	46 52
		eL	52 56
HHM		iP	01 41 18 C
		iG	49 09
		iScS	51 30
KIP		iP	01 40 14
RCD		iP	01 42 12
		ePP	44 42
SLC		eP	01 42 00
SIT		eP	01 39 23
		eS	45 40

Date and Station		Phase	h m s
THU		iP	01 40 44
		i	41 31
TUC		iP	01 42 42
		ePP	45 19
		ePPP	47 01
TUT		iP	01 42 42
Mar. 11			
COL		iP	02 37 46
EUR		iP	02 37 12
FGU		eP	02 37 40
GCA		eP	02 37 11
		i	37 24
HGN		eP	02 29 22
KIP		eP	02 29 22
		e(S)	29 28
TUC		iP	02 37 10
		e	37 30
TUT		eP	02 37 12
Mar. 11			
COL		eP	07 22 30
EUR		iP	07 26 02
		iPcP	28 30
HHM		iP	07 25 30
		iPcP	28 08
Mar. 11			
COL		eP'	08 58 14
EUR		iP'	09 00 10
		ePP	02 17
HHM		e(P')	09 00 26
TUC		eP'	09 00 17
		ePP	09 03 17
		eL	10 02 32
TUT		eP'	09 00 17
Mar. 11			
HGU		e(P)	10 05 40
Mar. 11			
COL		eP	10 24 08
Mar. 11			
COL		iP	12 40 59
EUR		iP	12 41 54
		i	42 32
Mar. 11			
COL		iP	13 14 16

Date and Station		Phase	h m s
Mar. 11			
COL		iP	13 28 51
Mar. 11			
FGU		eP	15 00 15
Mar. 11			
FGU		eP	16 21 56
Mar. 11			
COL		iP	17 06 35
		iPcP	06 43
		ipP	07 01
EUR		iP	17 07 28
Mar. 11			
FGU		eP	22 15 38
Mar. 12			
EUR		iP	01 36 24
FGU		eP	01 36 14
GCA		eP	01 35 59
		i	36 03
HHM		iP	01 36 55
TUC		eP	01 35 38
TUT		eP	01 35 36
Mar. 12			
BCN		eP	01 54 01
Mar. 12			
BUT		eP	02 55 29
COL		eP	02 59 03
		ipP	03 00 18
		iPcP	01 11
		ePP	02 09
EUR		iP	02 54 39
		iPP	57 30
		eS	58 27
FGU		eP	02 54 41
		iPcP	56 03
		e(S)	57 14
		eL	03 03 32
GCA		eP	02 54 04
		ePcP	56 01
		eS	57 14
HHM		eP	02 55 54
SLC		eP	02 54 42
SJP		e(P)	02 57 15
TUC		iP	02 53 02
		i	53 30
		i	54 07
		eS	55 37

Date and Station		Phase	h m s
TUT		iP	02 53 04
		ipP	53 11
		eS	55 58
Mar. 12			
EUR		iP	03 37 56
Mar. 12			
EUR		eP	03 45 57
Mar. 12			
COL		iP	04 16 31
Mar. 12			
COL		eP	04 21 17
Mar. 12			
GCA		eP	05 50 33
Mar. 12			
COL		iP	06 14 06
Mar. 12			
BCN		eP	06 37 33
Mar. 12			
COL		eP	06 57 41
EUR		eP	06 58 02
Mar. 12			
GCA		eP	07 38 22
		e	40 20
Mar. 12			
BCN		eP	08 50 47
NAU		eP	08 52 29
Mar. 12			
FGU		eP	09 52 20
		e(S)	54 40
GCA		eP	09 51 24
		i	51 40
		iS	52 40
TUC		eP	09 51 37
		i	52 00
		i(L)	53 20
TUT		eP	09 51 39
		e(L)	53 24
Mar. 12			
COL		eP	10 48 17
		i	48 25
HHM		eP	10 50 26
Mar. 12			
COL		eP	11 13 34
		i	14 26
EUR		iP	11 16 56
HHM		eP	11 16 27

Date and Station		Phase (GCT) h m s
Mar. 12		
EUR	eP	12 13 58
	iPP	14 43
FGU	eP	12 14 00
GCA	e(P)	12 13 18
HHM	eP	12 14 12
TUC	iP	12 12 21
	i	12 29
	i(PP)	13 19
TUT	eP	12 12 22
Mar. 12		
COL	eP	12 18 21
	ePcP	19 44
EUR	eP	12 17 33
Mar. 12		
COL	eP	13 40 13
Mar. 12		
BCN	eP	14 02 31
Mar. 12		
GUA	eP	14 30 11
	eS	30 28
Mar. 12		
EUR	eP	14 42 27
Mar. 12		
COL	eP	15 04 38
EUR	eP	15 01 55
HHM	eP	15 02 00
TUC	eP	15 03 37
	e	03 55
TUT	eP	15 03 36
Mar. 12		
EUR	eP	15 54 28
TUT	eP	15 54 44
Mar. 12		
COL	eP	17 07 05
Mar. 12		
COL	eP	18 36 40
Mar. 12		
COL	iP	19 28 04
Mar. 12		
BCN	eP	22 34 17
Mar. 17		
BOZ	eP	23 12 40
	eL	12 57

Date and Station		Phase (GCT) h m s
BUT	iP	23 12 32
	iS	12 41
	eL	12 47
Mar. 12		
BOZ	eP	23 34 55
BUT	eP	23 34 52
COL	iP	23 35 00
	ipP	35 28
	e(PKKP)	55 09
EUR	iP	23 34 24
	e(PKKP)	54 24
FGU	eP	23 34 47
	e	38 26
GCA	iP	23 34 30
	e	36 23
HON	eP	23 30 49
HHM	eP	23 34 53
KIP	eP	23 30 51
SLC	eP	23 34 39
TUC	iP	23 34 19
	epP	34 48
	ePP	37 44
	ePPP	39 39
	e(S)	44 43
	e(SS)	50 30
	eL	24 00 21
TUT	iP	23 34 19
Mar. 13		
COL	iP	00 06 53
Mar. 13		
EUR	eP	03 32 21
TUT	e(P)	03 30 44
Mar. 13		
COL	eP	04 49 46
	epP	50 19
Mar. 13		
COL	iP	05 03 34
	ePcP	03 41
	i	03 57
	iPP	06 52
EUR	iP	05 04 34
HHM	e(P)	05 04 41
Mar. 13		
COL	iP	06 06 59
GCA	e(P)	06 06 46

Date and Station		Phase (GCT) h m s
TUC	eP	06 06 38
TUT	eP	06 06 37
Mar. 13		
COL	eP	06 52 41
	i	52 44
Mar. 13		
EUR	eP	07 44 26
Mar. 13		
COL	eP	07 55 55
EUR	iP	07 55 31
TUC	iP	07 55 29
Mar. 13		
BHP	i(L)	08 16 43
BOZ	eP	08 09 21
BUT	eP	08 09 25
	eS	14 03
	eL	19 07
COL	iP	08 12 57
	i	13 04
	i	13 42
	i	14 10
	e(S)	20 11
CSC	eP	08 09 28
	e(ScS)	19 44
EUR	iP	08 08 32
	i(PcP)	09 58
	iPP	10 36
FGU	eP	08 08 35
	i	08 37
	e(PcP)	08 58
	iPP	11 43
	e(PPP)	12 46
GCA	eP	08 07 55
	i	07 56
	iPP	09 28
	e	13 48
HON	eP	08 12 16
	e	23 04
HHM	iP	08 09 47
KIP	eP	08 12 16
SLC	eP	08 08 35
	e(S)	13 47
SJP	eP	08 11 07
	i	11 13
	ePP	12 17
THU	e(P)	08 13 49

Date and Station		Phase (GCT) h m s
TUC	iP	08 06 54
	eS	09 20
	eL	09 38
TUT	iP	07 55
	ipP	08 02
	eS	10 50
UKI	eP	08 09 00
WAS	eP	08 10 12
	e(S)	15 56
	eL	19 10
Mar. 13		
EUR	eP	09 19 15
GCA	e(P)	09 18 44
	i	18 53
HHM	eP	09 19 46
TUT	eP	09 18 28
Mar. 13		
EUR	e(P)	09 29 29
TUC	eP	09 29 23
	i	29 26
Mar. 13		
COL	iP	10 19 25
Mar. 13		
COL	i(P)	14 07 35
Mar. 13		
COL	iP	15 43 05
Mar. 13		
COL	iP	18 02 42
Mar. 13		
BOZ	eP	19 28 08
	eS	28 20
	eL	28 33
HHM	iP	19 28 56
	i	29 06
	iL	29 58
Mar. 13		
COL	iP	19 29 30
THU	e(P)	19 27 06
Mar. 13		
COL	e(P)	20 14 32
Mar. 13		
COL	iP'	20 55 01
	ipP'	55 17
EUR	eP'	20 54 18
HHM	eP'	20 54 13
	i	54 31
	e(PP)	57 20

Date and Station	Phase	Phase (GCT) h m s
Mar. 13		
COL	eP	21 15 38
Mar. 13		
COL	iP	21 19 35
Mar. 13		
EUR	iP	21 04 08
	i	04 33
Mar. 13		
COL	eP	21 27 51
EUR	eP	21 27 31
FGU	eP	21 27 57
HHM	e(P)	21 28 03
TUC	eP	21 27 33
TUT	eP	21 27 32
Mar. 13		
COL	iP	22 21 58
Mar. 13		
COL	e(P)	22 43 38
Mar. 13		
COL	iP	23 23 58
Mar. 14		
COL	iP	01 14 04
	ipP	14 38
	iPP	15 55
EUR	iP	01 16 25
FGU	eP	01 16 40
	e(S)	24 29
	e(ScS)	25 49
GCA	eP	01 16 40
	e	17 27
	e(S)	24 18
	e(ScS)	25 29
HHM	iP	01 15 55
RCD	eP	01 16 46
TUC	eP	01 17 10
	e	17 15
TUT	eP	01 17 10
Mar. 14		
COL	iP	01 24 26
	ipP	24 38
	i	25 43
EUR	eP	01 24 00
	e(pP)	25 19
	ePP	25 57
HHM	e(P)	01 24 21
TUC	iP	01 24 05
	ipP	24 20
	e	25 20
	e(PP)	25 31
TUT	eP	01 24 04
Mar. 14		
COL	iP	04 30 46
	ipP	30 58
EUR	iP	04 30 09
	i	30 22
FGU	iP	04 30 36
GCA	eP	04 30 19
TUC	eP	04 30 37
TUT	e(P)	04 30 08
Mar. 14		
EUR	eP	05 13 01
TUC	eP	05 11 24
Mar. 14		
FGU	eP	06 57 07
	i	57 09
Mar. 14		
FGU	eP	06 37 42
Mar. 14		
COL	iP	07 04 58
GCA	e(P)	07 04 43
HHM	eP	07 05 08
Mar. 14		
EUR	iP	07 18 38
Mar. 14		
COL	iP	07 39 05
	i	39 14
Mar. 14		
COL	iP	09 46 04
Mar. 14		
BCN	iP	12 07 45
Mar. 14		
COL	iP	12 00 39
	iS	03 07
EUR	iP	12 06 16
	i	06 47
FGU	eP	12 06 24
	e	07 58
HHM	iP	12 05 15
TUC	e(P)	12 07 21
TUT	eP	12 07 21
Mar. 14		
COL	eP	14 02 42
	e	03 05
EUR	iP	14 02 41
	i	03 04
Mar. 14		
COL	iP	14 23 55
Mar. 14		
COL	iP	20 57 30
Mar. 14		
COL	e(P)	21 02 37
Mar. 14		
GCA	e(P)	21 27 33
	e	27 43
Mar. 14		
SIC	eP	23 47 02
	eL	47 52
Mar. 15		
TUC	e(P)	00 28 06
TUT	e(P)	00 28 09
Mar. 15		
COL	iP	01 10 27
EUR	eP	01 11 27
Mar. 15		
COL	eP	02 39 27
Mar. 15		
EUR	iP	03 24 25
Mar. 15		
COL	iP	07 44 29
	i	46 19
Mar. 15		
GUA	iP	07 52 22
	iS	52 50
Mar. 15		
COL	i(P)	08 41 48
Mar. 15		
COL	iP	09 43 30
Mar. 15		
COL	iP	09 56 12
	i	56 33
Mar. 15		
COL	iP	10 25 02
Mar. 15		
BOZ	eP	10 28 37
BUT	eP	10 28 28
COL	iP	10 27 10
	e(S)	37 22
EUR	iP	10 28 16
	ePP	32 27
GUA	iP	10 19 05
	iPcP	19 49
HHM	iP	10 28 24
	ipP	28 36
	i	28 52
KIP	eP	10 24 37
RCD	eP	10 28 59
SJP	eP'	10 34 30
TUC	eP	10 28 37
	e	28 42
	ePP	32 00
	ePPP	34 03
	eS	39 16
	eSS	45 27
	eL	59 06
TUT	eP	10 28 39
Mar. 15		
COL	eP	11 06 23
Mar. 15		
BCN	eP	11 27 50
FGU	eP	11 28 42
	e	32 03
Mar. 15		
COL	i(P)	12 42 55
Mar. 15		
COL	iP	13 13 12
	iPcP	13 18
	ipP	13 30
	iPP	16 21
EUR	iP	13 14 13
GUA	eP	13 05 32
HHM	iP	13 14 20
SJP	iP'	13 20 24
	e	20 42
Mar. 15		
FGU	eP	14 13 34
Mar. 15		
COL	iP	16 24 15
	i	24 33
EUR	eP	16 25 16
HHM	i(P)	16 25 23

Date and Station		Phase (GCT) h m s
Mar. 15		
COL	iP	16 26 54
	i	37 07
EUR	eP	16 29 25
FGU	eP	16 29 42
HHM	eP	16 29 08
	i	29 29
Mar. 15		
EUR	iP	18 18 05
SLC	eP	18 17 19
TUT	e(P)	18 18 53
Mar. 15		
COL	iP	21 15 32
Mar. 15		
COL	eP	21 22 33
Mar. 15		
COL	iP	22 19 33
Mar. 15		
COL	eP	22 26 34
HHM	e(P)	22 28 52
Mar. 16		
COL	iP	00 21 18
Mar. 16		
COL	eP	02 59 45
Mar. 16		
COL	iP	04 10 36
	ipP	10 45
EUR	iP	04 10 57
HHM	eP	04 11 15
Mar. 16		
COL	iP	04 43 00
	epP	44 55
EUR	iP	04 42 37
	ipP	44 30
FGU	iP	04 43 00
	epP	44 57
GCA	eP	04 42 45
	epP	44 38
HHM	e(P)	04 43 04
SLC	eP	04 42 53
TUC	iP	04 42 37
	e	43 19
	ipP	44 32
Mar. 16		
COL	iP	05 03 02

Date and Station		Phase (GCT) h m s
CSC	eP	05 09 21
EUR	iP	05 06 35
FGU	eP	05 06 54
	i	07 59
HHM	eP	05 06 03
	i	06 23
	iPP	07 56
RCD	eP	05 07 10
SJP	iP	05 11 08
TUC	eP	05 07 36
	e	08 03
Mar. 16		
COL	iP	07 31 06
	i	31 35
Mar. 16		
COL	iP'	07 34 09
	i	39 20
EUR	iP'	07 34 41
	iSKP	37 52
FGU	eP'	07 34 47
	i	38 03
HHM	iP'	07 34 33
Mar. 16		
COL	iP	08 05 20
	i	05 27
	ipP	05 31
	isP	05 40
EUR	iP	08 04 43
	i	04 55
FGU	eP	08 05 10
GCA	eP	08 04 46
	e	04 53
HHM	eP	08 05 16
TUC	iP	08 04 42
Mar. 16		
COL	iP	09 28 45
EUR	iP	09 32 03
HHM	e(P)	09 31 36
Mar. 16		
COL	iP	09 54 51
	ipP	55 03
	isP	55 11
Mar. 16		
COL	iP	11 32 47
	ipP	33 16
EUR	iP'	11 38 15

Date and Station		Phase (GCT) h m s
GUA	eP	11 24 58
HHM	eP'	11 38 14
RCD	eP	11 38 31
Mar. 16		
HHM	e(P)	12 30 35
Mar. 16		
COL	iP	13 59 04
	ipP	59 25
	iPP	14 01 20
	i(PKKP)	15 43
GUA	eP	13 51 54
Mar. 16		
BCN	eP'	14 03 50
Mar. 16		
BOZ	eP'	14 04 25
	e	14 07
BUT	eP'	14 04 20
	e	29 30
COL	iP	14 11 07
EUR	iP'	14 04 22
	iPP	06 11
	eP'P'	14 31
GCA	eP'	14 04 31
	e	08 05
	e	18 09
HHM	eP'	14 04 20
RCD	eP'	14 04 36
SLC	eP'	14 04 27
	e	14 30
SJP	eP'	14 05 36
	e	10 29
	ePP	11 13
	eSKS	12 41
	ePPP	15 17
TUC	eP'	14 04 35
	ePP	06 39
	ePPP	09 12
	eS	14 19
	ePPS	18 08
	eSS	23 28
	eL	38 05
WAS	iP'	14 05 08
	ePP	05 39
	ePP'	08 49
	e	18 55
	e	19 15
Mar. 16		
COL	iP	14 44 34

Date and Station		Phase (GCT) h m s
Mar. 16		
COL	iP	15 33 34
	iPP	34 42
	i(SoS)	43 14
	i	44 32
EUR	iP	15 37 10
	i	37 34
FGU	eP	15 37 28
HHM	iP	15 36 38
RCD	iP	15 37 36
SLC	eP	15 37 20
TUC	eP	15 38 04
	ePP	40 34
	ePPP	42 27
	eS	47 06
	e(L)	55 33
Mar. 16		
COL	iP	17 07 01
Mar. 16		
COL	iP	18 34 44
	epP	35 02
CSC	eP'	18 40 57
EUR	iP'	18 40 02
FGU	eP'	18 40 09
HHM	eP'	18 39 59
Mar. 16		
COL	iP	20 18 24
EUR	iP	20 17 51
FGU	e(P)	20 18 06
GCA	eP	20 17 59
TUC	eP	20 17 49
	epP	18 14
TUT	eP	20 17 50
Mar. 16		
EUR	eP	22 38 59
Mar. 16		
COL	iP	22 46 21
	ipP	46 36
EUR	iP	22 45 50
GCA	eP	22 45 48
Mar. 16		
COL	iP	23 25 50
	ePP	30 12
EUR	eP	23 25 18

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

Date and Station		Phase (GCT) h m s
FGU	eP	08 39 45
GCA	eP	08 39 26
HHM	e(P)	08 39 51
RCD	eP	08 40 09
TUC	eP	08 39 14
	e	39 31
TUT	eP	08 39 08
Mar. 18		
COL	iP	09 41 10
	ipP	43 21
Mar. 18		
COL	iP	09 53 32
TUC	iP	09 52 58
Mar. 18		
COL	iP	10 25 48
	ePcP	26 29
	epP	27 29
	ePP	27 47
EUR	iP	10 28 23
HHM	iP	10 28 05
RCD	eP	10 28 46
Mar. 18		
COL	iP	11 50 17
	ipP	50 34
GCA	e(P)	11 49 24
	e(pP)	49 53
TUC	eP	11 49 38
TUT	e(P)	11 49 44
Mar. 18		
COL	eP	13 28 44
	iPP	31 33
Mar. 18		
EUR	iP	14 08 06
HHM	e(P)	14 08 20
Mar. 18		
COL	e(P)	15 08 24
Mar. 18		
BCZ	eP'	15 13 53
BUT	eP'	15 13 53
COL	iP'	15 13 47
	iPP	15 17
	e	23 53
CSC	eP'	15 14 10
EUR	eP'	15 13 41 D
	iPP	14 43
	i	14 57
	ePKKP	24 21

Date and Station		Phase (GCT) h m s
GUA	eP	15 05 44
HHM	eP'	15 13 52
	ePP	15 23
	i	15 33
	iPKS	16 16
	ePKKP	23 55
	i	24 04
	e	27 25
KIP	eP	15 07 06
SLC	eP'	15 14 54
	e	44 00
SJP	eP'	15 14 10
	i	14 30
THU	iP'	15 14 42
	i	15 00
TUC	e(P')	15 14 42
	e(SKS)	21 15
	eS	22 06
	ePS	24 02
	eP'P'	34 15
	eL	41 09
TUT	e(P)	15 14 16
	e	31 19
WAS	eP'	15 14 10
	i	20 19
Mar. 18		
COL	eP	17 51 48
	epP	52 06
Mar. 18		
COL	iP	19 46 40
Mar. 18		
COL	eP	20 17 54
EUR	eP	20 20 24
HHM	iP	20 20 04
Mar. 18		
COL	iP	22 12 38
	i	12 43
EUR	iP	22 13 18
	ipP	13 35
Mar. 18		
FGU	eP	23 12 51
Mar. 18		
COL	iP	23 24 09
	i	25 08
EUR	eP	23 24 37
FGU	eP	23 25 18
GCA	e(P)	23 24 50
	e	24 54

Date and Station		Phase (GCT) h m s
TUT	eP	23 24 41
Mar. 18		
COL	eP	23 36 30
Mar. 18		
COL	iP	23 52 25
Mar. 18		
COL	iP	23 57 14
Mar. 18		
COL	iP	00 19 10
	i	19 22
FGU	eP	00 19 01
	i	21 54
GCA	eP	00 18 43
TUC	eP	00 18 33
TUT	eP	00 18 33
Mar. 19		
COL	eP	02 11 05
Mar. 19		
EUR	eP	02 15 46
Mar. 19		
EUR	eP	02 21 24
Mar. 19		
BCN	eP	04 43 40
Mar. 19		
BCN	eP	05 01 48
COL	iP	05 00 14
	i	00 31
	e	13 15
	e(PKKP)	17 20
EUR	eP	05 03 21
	i	04 01
	e(PKKP)	18 22
	e	20 15
	i	21 41
FGU	eP	05 03 38
	e(PKKP)	18 28
GCA	eP	05 03 12
	e	03 46
	e(PKKP)	18 32
HHM	eP	05 02 56
	i	03 05
	e(PKKP)	18 14
RCD	eP	05 03 46
THU	eP	05 02 10
TUC	eP	05 04 07
TUT	eP	05 04 06
	e(PKKP)	22 06

Date and Station		Phase (GCT) h m s
Mar. 19		
COL	iP	05 46 33
Mar. 19		
BCN	eP	07 06 52
Mar. 19		
COL	eP	07 27 35
	ipP	27 49
	ePP	30 41
EUR	eP	07 27 59
	epP	28 27
	ePP	31 44
FGU	eP	07 27 27
	e	28 27
GCA	eP	07 27 11
	e	32 04
HHM	e(P)	07 28 29
RCD	e(P)	07 28 01
SJP	eP'	07 34 09
TUC	eP	07 28 12
	epP	28 33
TUT	e(P)	07 28 01
Mar. 19		
COL	iP	08 04 08
	epP	04 22
	ePP	07 24
EUR	eP'	08 10 01
FGU	eP'	08 10 05
	i	10 23
GCA	e(P')	08 10 01
RCD	e(P')	08 10 06
Mar. 19		
COL	iP	09 27 35
	ipP	28 04
	ePcP	28 56
	ePP	29 44
EUR	eP	09 30 32
	i	30 43
FGU	eP	09 30 51
GCA	e(P)	09 30 23
	epP	30 55
HHM	eP	09 30 10
RCD	eP	09 30 57
TUC	eP	09 31 15
	epP	31 44
Mar. 19		
COL	iP	09 59 02

Date and Station		Phase (GCT) h m s
Mar. 19		
FGU	eP	10 02 52
HHM	eP	10 01 59
Mar. 19		
EUR	eP	10 25 48
FGU	eP	10 25 40
GCA	eP	10 25 17
	e	25 28
TUC	iP	10 25 04
Mar. 19		
BCN	eP	11 58 55
Mar. 19		
COL	iP	12 18 39
	i	19 05
EUR	eP	12 18 54
TUC	eP	12 19 02
	e	19 10
Mar. 19		
COL	iP	13 00 54
	e	01 07
EUR	iP'	13 06 09
FGU	eP'	13 06 17
HHM	iP'	13 06 05
TUT	eP'	13 06 21
Mar. 19		
COL	eP	14 20 52
Mar. 19		
BCN	eP	14 28 26
COL	iP	14 32 42
	i	33 21
EUR	iP	14 28 53
FGU	eP	14 28 31
GCA	eP	14 28 09
	e	28 15
TUT	eP	14 27 41
Mar. 19		
COL	eP	19 17 10
GUA	eP	19 06 39
Mar. 19		
COL	iP	19 56 50
	i	57 04
Mar. 19		
BCN	eP	20 46 22

Date and Station		Phase (GCT) h m s
COL	iP	20 46 40
	i	47 01
	i	47 12
FGU	eP	20 46 53
GCA	eP	20 46 37
HHM	e(P)	20 47 04
TUC	eP	20 46 24
	i	46 39
TUT	eP	20 46 26
Mar. 19		
SIC	eP	22 36 12
	e	36 38
	e	38 29
Mar. 20		
FGU	e(P)	00 39 25
	e	39 37
GCA	eP	00 39 28
TUC	eP	00 39 03
Mar. 20		
COL	eP	01 48 28
Mar. 20		
BUT	eP	02 29 56
COL	eP	02 27 39
	ipP	27 51
	i	27 58
FGU	eP	02 30 11
GCA	e(P)	02 29 46
	e	30 13
HHM	eP	02 29 41
Mar. 20		
COL	iP	03 23 58
Mar. 20		
COL	iP	03 41 57
	iPcP	42 07
	epP	42 23
	esP	42 33
HHM	iP	03 43 44
RCD	eP	03 44 03
THU	iP	03 40 55
TUC	eP	03 48 55
	e	49 15
Mar. 20		
BHP	iP	06 18 04
	eS	19 50
BUT	eP	06 24 01

Date and Station		Phase (GCT) h m s
BCN	eP	06 23 16
BOZ	iP	06 23 53
	ePcP	25 38
	e(S)	34 28
COL	iP	06 27 13
	ipP	27 41
	ePP	29 37
CSC	eP	06 21 25
	eS	26 00
FGU	iP	06 23 16
	iPP	24 58
	ePcP	25 42
	eS	29 32
	e(SeS)	33 33
GCA	eP	06 23 04
	ePcP	25 42
	e(S)	29 26
HHM	iP	06 24 20
	iPP	25 00
	iPcP	26 09
	ipPP	26 57
RCD	iP	06 23 17
	ipP	23 38
	iPP	24 43
	iPcP	25 38
	eS	29 03
	esS	29 45
SIC	iP	06 23 39 C
	iPcP	25 49
	eS	29 56
	e(L)	40 00
SJP	iP	06 21 00
TUC	eP	06 22 31
	ipP	22 55
	ePcP	25 25
	eS	27 31
	eL	28 50
	e	29 06
TUT	eP	06 22 32
	epP	23 13
	esP	23 47
	ePP	25 29
	epPP	26 16
	ePPP	27 56
WAS	eP	06 22 17
	i	23 21
	eS	27 55
	eL	31 33
Mar. 20		
COL	iP	06 46 47
Mar. 20		
COL	eP	07 42 12
Mar. 20		
COL	eP	09 21 10
	i	21 24

Date and Station		Phase (GCT) h m s
Mar. 20		
COL	iP	11 20 54
	i	23 09
TUC	iP	11 20 34
Mar. 20		
COL	eP	11 38 52
Mar. 20		
BCN	iP	11 49 33
BOZ	iP	11 49 05
BUT	eP	11 48 56
COL	iP	11 45 51
	i	46 24
	ipP	47 12
	isP	47 32
	iPcP	47 36
	iPP	47 44
FGU	iP	11 49 30
GCA	iP	11 49 40
	epP	51 02
HHM	iP	11 48 43
	iPcP	49 14
SIC	iP	11 49 23
	e(PcP)	49 58
SIT	eP	11 46 55
THU	iP	11 47 44
TUC	iP	11 50 01
	i	50 10
	epP	51 24
TUT	iP	11 50 01
Mar. 20		
COL	iP	12 52 44
Mar. 20		
COL	eP	14 01 50
Mar. 20		
COL	iP	14 12 00
	iPcP	12 10
	epP	12 21
	esP	12 33
	iPP	14 40
Mar. 20		
COL	iP	14 59 15
	i	59 58
Mar. 20		
BCN	iP	16 04 59 D
BOZ	iP	16 05 38 D
	ipP	06 31
	iPP	08 59
	iS	15 23
	iL	28 54

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Date and Station		Phase (GCT)
		h m s
BUT	eP	16 05 34
COL	eP	16 05 33
	epP	06 26
	ePP	09 03
	epPP	09 43
	ePPP	10 57
	epPPP	11 36
	iS	15 40
	ePKKP	16 38
	eP'P'	31 35
EUR	iP	16 05 05 D
	epP	05 59
	ePP	08 07
	ipPP	08 54
	iS	15 04
	ePKKP	23 26
	ipPKKP	24 22
	eP'P'	31 24
FCU	iP	16 05 31 D
	ipP	06 26
	iS	15 39
GCA	eP	16 05 14
	i	05 15
	epP	06 05
	ePP	08 00
	eS	15 16
GUA	eP	16 01 58
	i(PcP)	03 11
HON	iP	16 00 59
HHM	iP	16 05 35 D
	i	05 46
	ipP	06 30
	iPP	08 55
	ipPP	09 40
	iS	15 45
	iPKKP	23 37
	eP'P'	31 44
KIP	iP	16 00 59
SLC	iP	16 05 23 D
	ipP	06 16
	i	06 45
	iS	16 31
	e(P'P')	28 30
SJP	eP'	16 12 25
SIT	eP	16 05 18
	epP	06 08
TUC	iP	16 05 07 D
	epP	05 53
	eaP	06 15
	ePP	08 18
	eS	14 46
	eSS	20 13
	eL	26 31
TUT	eP	16 05 05
UKI	eP	16 04 36

Date and Station		Phase (GCT)
		h m s
Mar. 20		
COL	iP	19 05 42
Mar. 20		
COL	iP	22 49 19
Mar. 20		
TUC	eP	22 57 49
Mar. 20		
BCN	eP	23 55 01
BOZ	eP	23 53 40
BUT	eP	23 55 32
COL	iP	23 55 40
	ePP	58 57
EUR	iP	23 55 08
	iPP	58 12
	eP'P'	24 21 34
GCA	eP	23 55 15
	ePP	58 19
HHM	eP	23 55 39
	ePP	58 51
KIP	iP	23 51 20
SLC	eP	23 55 27
	e	24 06 03
	e	00 24 50
TUC	eP	23 55 06
	ePP	58 28
	ePPP	00 00 21
	eS	05 30
	e(L)	17 26
TUT	eP	23 55 05
	ePP	58 08
Mar. 21		
COL	eP	00 06 03
	e	10 23
Mar. 21		
COL	eP	00 57 44
Mar. 21		
EUR	iP	02 50 27
	eL	52 07
SLC	eP	02 50 55
Mar. 21		
EUR	eP	04 45 37
HHM	eP	04 46 07
	i	46 36
RCD	e(P)	04 45 17
SJP	eP	04 41 27
Mar. 21		
EUR	eP	05 53 41

Date and Station		Phase (GCT)
		h m s
Mar. 21		
COL	eP	06 18 06
	e	18 40
EUR	eP	06 17 33
Mar. 21		
COL	eP	06 27 44
	i	27 57
Mar. 21		
COL	iP	06 37 55
	i	38 12
EUR	eP	06 37 23
GCA	eP	06 37 30
TUT	eP	06 37 22
Mar. 21		
COL	eP	07 55 59
	i	56 11
EUR	eP	07 50 27
Mar. 21		
BCN	eP	09 34 07
COL	iP	09 34 32
	ipP	36 42
	i	40 12
EUR	iP	09 34 12
	epP	36 23
GCA	eP	09 34 20
	epP	36 26
HHM	eP	09 34 39
SLC	iP	09 34 28
TUC	iP	09 34 12
	e	34 36
	epP	36 24
TUT	eP	09 34 12
Mar. 21		
COL	eP	09 57 22
EUR	e(P)	09 57 01
GCA	eP	09 57 04
Mar. 21		
EUR	eP	16 34 20
Mar. 21		
COL	iP	16 59 46
Mar. 21		
COL	eP	19 31 32
Mar. 21		
BCN	eP	20 07 53
COL	iP	20 08 00

Date and Station		Phase (GCT)
		h m s
EUR	iP	20 07 53
GCA	eP	20 08 08
TUT	eP	20 08 01
Mar. 21		
SLC	iP	23 45 51
	iS	46 18
Mar. 21		
COL	eP	23 54 21
Mar. 22		
COL	iP	02 06 14
Mar. 22		
COL	iP	03 33 48
Mar. 22		
COL	iP	04 03 34
Mar. 22		
COL	iP	04 26 32
	epP	26 47
EUR	iP	04 27 17
Mar. 22		
COL	iP	04 48 37
	i	48 50
Mar. 22		
COL	iP	06 23 19
Mar. 22		
COL	iP	06 47 09
	i	47 23
EUR	eP	06 46 37
GCA	eP	06 46 53
TUC	eP	06 46 43
Mar. 22		
COL	eP	07 41 06
Mar. 22		
COL	iP	08 20 58
	i	21 04
EUR	eP	08 21 43
Mar. 22		
RCD	e(P)	09 49 28
Mar. 22		
COL	iP	13 03 19
Mar. 22		
COL	iP	14 08 39
	ipP	10 17
EUR	iP	14 08 21
HHM	eP	14 08 46

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

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Date and Station		Phase (GCT) h m s
TUT	eP	23 09 43
Mar. 24		
COL	iP	23 49 38
	iPcP	49 48
	epP	50 03
	esP	50 14
	ePP	53 03
EUR	eP	23 50 59
HON	eP	23 47 39
KIP	iP	23 47 41
SJP	iP'	23 56 56
Mar. 25		
COL	iP	00 24 35
	i	25 03
Mar. 25		
COL	iP	01 11 18
EUR	iP	01 14 56
Mar. 25		
BOZ	eP	02 19 37
BUT	eP	02 19 38
COL	eP	02 22 25
	ipP	22 55
	i	23 17
EUR	iP	02 19 24
	ipP	19 53
FGU	eP	02 19 05
	ipP	19 30
GCA	eP	02 18 55
	epP	19 20
SIC	i(P)	02 19 14
SJP	eP	02 15 15
	ipP	15 36
TUC	iP	02 18 24
	e	18 33
	epP	18 53
TUT	e(P)	02 18 23
Mar. 25		
COL	iP	04 14 40
	i	14 48
	i	15 29
Mar. 25		
COL	iP	06 03 31
Mar. 25		
BCN	eP	07 33 22
FGU	eP	07 34 40

Date and Station		Phase (GCT) h m s
TUC	eP	07 35 09
Mar. 25		
EUR	iP	07 50 46
	iL	52 43
GCA	e(P)	07 49 43
	i	50 06
	e	50 43
	e	52 26
TUC	eP	07 50 27
Mar. 25		
COL	eP	11 47 47
	i	47 48
	e	50 48
Mar. 25		
COL	iP	14 27 11
	e	29 13
EUR	iP	14 26 53
TUC	iP	14 26 55
Mar. 25		
COL	eP	16 21 29
Mar. 25		
TUC	eP	18 55 37
	eL	56 27
Mar. 25		
COL	e(P)	19 42 20
EUR	iP	19 42 55
Mar. 25		
COL	eP	20 24 38
Mar. 25		
BCN	eP	20 35 19
Mar. 25		
SIC	iP	20 49 04
Mar. 25		
COL	iP'	21 18 21
	e	18 40
EUR	eP'	21 18 40
	e	19 54
FGU	eP'	21 17 20
	e	19 31
RCD	e(P')	21 19 07
Mar. 25		
FGU	eP	23 18 23
SIC	e(P)	23 17 52
	i	23 18 18
Mar. 26		
COL	iP	00 54 44
	i	55 12

Date and Station		Phase (GCT) h m s
EUR	iP	00 56 35
GUA	iP	00 44 03
Mar. 26		
COL	eP	01 33 41
Mar. 26		
COL	iP	05 05 47
Mar. 26		
COL	eP	06 08 06
Mar. 26		
COL	iP	14 41 37
	iPcP	41 55
	e(pP)	42 16
	esP	42 35
	ePP	44 57
CSC	eP'	14 48 30
EUR	e(P')	14 47 03
	ePP	47 42
	e	48 02
	i	59 12
GUA	eP	14 33 46
RCD	e(P')	14 47 43
Mar. 26		
BCN	iP	16 54 37
Mar. 26		
COL	iP	19 53 23
Mar. 26		
BCN	eP	20 17 53
COL	iP	20 13 34
	ipP	13 57
	esP	14 21
	ePcP	18 55
	eScP	22 16
EUR	iP	20 17 26
	ipP	18 01
	i	19 50
GCA	eP	20 18 04
RCD	eP	20 18 00
SJP	iP	20 22 33
TUC	iP	20 18 35
	ipP	19 25
Mar. 26		
COL	eP	20 41 35
SJP	eP'	20 48 50
Mar. 26		
COL	iP	23 23 30
	ePP	26 19

Date and Station		Phase (GCT) h m s
THU	iP	23 23 02
	i	23 05
Mar. 26		
COL	eP	23 52 07
Mar. 27		
COL	iP	00 25 08
TUC	eP	00 28 25
TUT	e(P)	00 28 28
Mar. 27		
FGU	eP	00 55 44
	e	56 54
Mar. 27		
COL	iP	02 32 05
EUR	iP	02 35 44
	i	36 00
Mar. 27		
BCN	iP	03 46 40
GCA	e(P)	03 46 52
	e	47 25
	i	48 13
Mar. 27		
COL	iP	03 47 18
Mar. 27		
COL	eP	04 36 06
EUR	eP'	04 41 35
Mar. 27		
FGU	iP	06 07 29
	i	09 11
Mar. 27		
COL	eP	06 52 05
Mar. 27		
BUT	eP	09 03 01
	eS	05 47
COL	eP	09 07 22
EUR	iP	09 01 22
FGU	iP	09 02 22
	i	02 41
SIC	eP	09 02 01
	e	02 18
	e(S)	03 47
TUC	iP	09 02 14
	e	02 37
	e(S)	03 54
TUT	eP	09 02 14
	eS	04 03

Date and Station		Phase	(GCT) h m s
Mar. 27			
BHP		e(P)	09 55 45
Mar. 27			
COL		iP	10 44 26
FGU		iP	10 44 31
TUC		eP	10 44 06
Mar. 27			
COL		iP	16 27 38
EUR		iP	16 31 14
Mar. 27			
COL		eP	16 42 37
EUR		iP	16 42 12
		ipP	44 06
Mar. 27			
BCN		eP	20 03 20
Mar. 27			
BOZ		ePP	21 04 35
COL		eP	21 03 13
		e	04 38
EUR		eP	20 59 11
		e(PP)	21 03 51
FGU		eP	20 59 08
		e(PP)	21 03 51
GCA		e(P)	20 58 33
		e	58 46
		e(PP)	21 03 24
		eL	06 15
TUC		eP	20 57 56
		ePP	59 22
TUT		eP	20 57 57
		e	21 02 38
Mar. 27			
COL		eP	22 30 00
EUR		eP	22 26 05
GCA		e(P)	22 25 26
TUC		eP	22 24 50
TUT		eP	22 24 50
Mar. 27			
TUC		eP	23 26 46
TUT		e(P)	23 24 47
Mar. 28			
EUR		iP	01 15 22
Mar. 28			
COL		eP	03 54 01
Mar. 28			
EUR		iP	05 09 47
Mar. 28			
COL		eP	06 03 31
EUR		iP	06 07 04
		iPcP	09 20
SJP		iP	06 12 10
TUC		eP	06 08 07
Mar. 28			
BCN		eP'	09 53 34C
		ePKKP	10 04 04
BOZ		e(P)	09 50 38C
		eP'	54 30
		eS	55 18
		ePKKP	10 05 21
BUT		e(P)	09 50 30C
		eP'	54 23
		ePKKP	10 05 24
COL		iP	09 48 45D
		iS	59 03
		ePKKP	10 05 47
		eP'P'	14 29
CSC		eP'	09 55 06C
		e	55 17
		ePP	58 06
EUR		eP	09 50 35D
		ipP	50 55
		iP'	54 29
		iPKKP	10 05 16
		i	05 36
FGU		eP	09 50 52
		iP'	54 35
		i(S)	10 02 31
		iPKKP	05 02
		e	10 43
		eP'P'	15 26
GCA		eP	09 50 47
		eP'	54 37
		e	10 00 10
		iPKKP	05 02
		e	07 36
GUA		eP	09 41 16
HON		eP	09 47 57
		epP	48 11
HHM		e(P)	09 50 26C
		eP'	54 11
		iPP	55 03
		i(S)	10 02 34
		ePKKP	04 24
		i	06 19
RCD		eP	09 51 00
		epP	51 21
		iP'	54 40
		i	55 10
		iPP	56 11
		ePPP	57 37
		e	10 01 44
		ePKKP	04 08
SLC		eP'	09 54 32 C
		e	55 03
		ePP	55 33
		e(S)	10 01 15
		ePKKP	05 15
SJP		eP'	09 55 47
		ipP'	56 25
		i	10 00 04
SIT		eP	09 49 18 C
		e	53 10
		eS	59 44
THU		iP	09 49 49 D
TUC		eP	09 51 23 D
		eP'	54 42
		e	56 03
		ePP	56 38
		ePKS	58 26
		ePPP	58 43
		e(S)	10 01 59
		ePKKP	04 15
		e	07 25
		e(SS)	12 59
		e	16 54
		eL	24 30
TUT		iP'	09 54 42
		i	55 19
		ePKS	58 19
		e	59 02
		e(S)	10 00 42
		ePKKP	04 53
		e	05 42
UKI		eP'	09 53 43
WASH		eP'	09 54 59
		i	55 13
		i	55 54
		iPP	58 35
		e(S)	59 44
		e(SKKP)	10 10 47
Mar. 28			
COL		eP	10 43 45
Mar. 28			
COL		eP	10 51 26
Mar. 28			
COL		eP	11 38 22
Mar. 28			
BCN		iP	12 36 32
BOZ		eP	12 37 03
		eS	43 02
BUT		eP	12 36 53
		eS	42 37
CSC		eP	12 40 03
		e(S)	48 50
COL		iP	12 33 38
		iS	37 24
		ePcP	37 55
		iScP	41 26
		iScS	45 08
		e(P'P')	13 08 00
EUR		iP	12 37 08
		iSoP	42 43
		iPcS	42 55
		i(S)	43 36
		e(P'P')	13 08 15
FGU		iP	12 37 32
		iScP	42 56
		iS	44 12
		i	47 21
		e(P'P')	13 08 08
GCA		e(P)	12 37 35
		e	37 44
		iPcP	39 38
		iScP	41 05
		i	43 06
		e(S)	44 35
GUA		eP	12 37 58
HON		eP	12 35 52
		e(S)	44 25
HHM		iP	12 36 37
		iPcP	38 47
		eS	42 32
		eScS	46 43
RCD		iP	12 37 46
		iPcP	39 16
		iPP	39 57
		ePPP	40 41
		eS	44 58
		eScS	46 25
SLC		eP	12 37 22
		epP	37 39
		eS	43 55
		eScS	47 11
SJP		iP	12 41 59
		e(pP)	42 18
		e(S)	43 01
SIT		eP	12 34 27
		eS	39 00
TUC		iP	12 38 09
		ePP	41 02
		eS	45 23
		e	49 30

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Date and Station		Phase (GCT)
		h m s
TUT	eP	12 38 09
UKI	eP	12 36 32
WAS	eP	12 39 53
	ePP	42 00
	e(P'P')	13 08 17
Mar. 28		
COL	iP	13 17 23
Mar. 28		
COL	eP	13 26 48
Mar. 28		
COL	iP	13 55 44
	i	55 59
EUR	iP	13 56 21
	i	56 39
Mar. 28		
COL	iP	14 03 26
	epP	03 43
	iS	07 05
	iPcP	07 44
	eScP	11 15
	ePcS	11 41
EUR	iP	14 06 56
	iPP	08 47
	iPcP	09 02
	iScP	12 32
FGU	eP	14 07 20
	iPP	08 57
	i(ScP)	12 44
RCD	iP	14 07 34
SJP	iP	14 11 46
	ipP	12 00
TUC	eP	14 07 58
	epP	03 13
Mar. 28		
COL	iP	14 33 10
EUR	eP	14 35 35
FGU	eP	14 35 23
	e	35 54
Mar. 28		
COL	eP	15 36 23
TUC	eP	15 38 04
Mar. 28		
EUR	eP	16 34 56
Mar. 28		
TUC	eP	17 13 21
	e	14 24
TUT	e(P)	17 13 12

Date and Station		Phase (GCT)
Mar. 28		h m s
BHP	iP	21 08 30
	iS	13 32
BCN	eP	21 12 18
BOZ	eP	21 13 47
	epP	14 17
	eS	24 20
BUT	eP	21 13 51
COL	iP	21 15 56
	ipP	16 27
	ePP	19 58
	epPP	20 17
	e(SPP)	20 52
CSC	eP	21 11 37
	epP	12 05
	eS	19 24
EUR	iP	21 13 34
	ipP	14 04
	isP	14 17
	iPP	16 49
	ePPP	18 18
	eP'P'	40 31
FGU	iP	21 13 22
	ipP	13 53
	e	18 39
	e	22 41
GCA	iP	21 13 15
	epP	13 36
	ePP	16 01
	e	19 35
GUA	iP	21 21 30
HHM	iP	21 14 05
	ipP	14 37
	isP	14 47
RCD	iP	21 13 20
	ipP	13 43
	ePP	16 17
	e	16 34
SIC	eP	21 13 28
SJP	iP	21 09 26
	ipP	09 56
	iPP	11 07
	iPcP	11 42
	iS	15 36
TUC	iP	21 12 47
	ipP	13 17
	ePP	15 25
	ePPP	17 00
	eS	21 33
	eL	29 42
TUT	iP	21 12 47

Date and Station		Phase (GCT)
		h m s
WAS	iP	21 12 06
	epP	12 36
	ePP	15 14
	e	19 10
	eP'P'	41 24
Mar. 28		
COL	i(P)	22 00 58
Mar. 28		
COL	eP	23 05 21
EUR	eP	23 05 32
Mar. 29		
BUT	eP	06 55 26
COL	eP	06 52 46
	epP	53 09
EUR	iP	06 55 36
	ipP	55 53
FGU	iP	06 55 54
	epP	56 10
	e	56 38
GCA	eP	06 56 03
	epP	56 19
GUA	eP	06 48 14
Mar. 29		
COL	eP	09 47 52
	epP	48 13
FGU	iP'	09 53 41
SJP	ipP'	09 55 31
Mar. 29		
COL	iP	15 32 04
Mar. 29		
COL	iP	17 22 46
	i	23 05
Mar. 29		
COL	iP	17 44 25
	i	44 36
Mar. 29		
COL	iP	17 53 15
Mar. 29		
COL	iP	18 19 03
	epP	19 41
EUR	iP	18 22 02
FGU	eP	18 22 19
GCA	e(P)	18 22 26
RCD	eP	18 22 26
TUT	e(P)	18 22 44

Date and Station		Phase (GCT)
Mar. 29		h m s
COL	eP	21 41 23
Mar. 29		
COL	eP	22 33 07
Mar. 29		
EUR	iP	22 41 32
Mar. 30		
FGU	eP'	01 40 41
TUC	eP'	01 40 57
Mar. 30		
COL	iP	02 15 19
EUR	eP	02 19 50
Mar. 30		
COL	iP	07 06 36
	i	07 03
EUR	eP	07 06 57
Mar. 30		
BCN	iP	07 46 35
	eS	51 00
BOZ	eP	07 48 15
	eS	52 24
	eL	57 48
BUT	eP	07 48 18
	eS	52 35
	eL	55 25
COL	eP	07 51 57
	e	08 09 35
CSC	eP	07 48 45
	eS	53 20
	eL	57 56
EUR	iP	07 47 21
FGU	iP	07 47 23
	eS	52 36
GCA	iP	07 46 41
	iS	51 06
	iL	52 11
HHM	iP	07 48 45
RCD	iP	07 48 01
SIC	eP	07 47 23
SJP	e(P)	07 50 08
TUC	iP	07 45 30
	e	45 39
	eS	47 15
	eL	48 13
TUT	eP	07 45 31
	eS	48 15

Date and Station	Phase	(GCT) h m s
Mar. 30		
BCN	eP	09 01 29
BOZ	eP	09 02 12
BUT	eP	09 02 06
COL	iP	09 02 08
	iPP	05 14
EUR	iP	09 01 37
FGU	eP	09 02 03
	ePP	04 50
	eL	12 13
GCA	eP	09 01 51
	e	02 55
	eL	11 47
HHM	eP	09 02 07
RCD	eP	09 02 33
SLC	eP	09 01 56
TUC	eP	09 01 37
	e(L)	23 10
TUT	eP	09 01 38
Mar. 30		
COL	eP	11 15 04
EUR	eP	11 10 25
	e	10 39
FGU	eP	11 10 28
	e	15 52
	eS	15 22
	eL	20 27
GCA	e(P)	11 09 37
	e	09 52
	e	13 56
HHM	e(P)	11 11 46
RCD	eP	11 11 05
TUC	eP	11 08 37
	e	08 42
	eL	11 20
Mar. 30		
COL	iP	12 11 06
	i	11 20
	i	11 31
EUR	e(P)	12 13 55
HHM	eP	12 13 20
Mar. 30		
COL	iP	12 50 38
Mar. 30		
COL	iP	15 23 20
	iS	23 56

Date and Station	Phase	(GCT) h m s
Mar. 30		
HHM	eP	15 42 34
Mar. 30		
EUR	iP	17 14 00
Mar. 30		
COL	eP	18 23 10
Mar. 30		
COL	iP	20 59 02
Mar. 31		
EUR	eP	00 11 43
Mar. 31		
FGU	eP	00 11 59
Mar. 31		
COL	e(P)	01 36 08
Mar. 31		
COL	eP	03 12 37
	i	12 40
Mar. 31		
COL	iP	04 25 01
EUR	iP	04 27 43
FGU	eP	04 27 00
TUT	eP	04 28 21
Mar. 31		
BUT	eP	05 32 17
COL	iP	05 29 44
EUR	iP	05 32 26
	e(pP)	33 26
FGU	iP	05 32 44
GCA	eP	05 32 47
	e	32 53
GUA	eP	05 24 20
RCD	eP	05 32 52
TUC	eP	05 33 05
	epP	34 07
TUT	e(P)	05 33 05
Mar. 31		
COL	eP	06 40 16
EUR	eP	06 39 33
Mar. 31		
COL	iP	07 32 12
EUR	iP	07 34 54
FGU	iP	07 35 12
RCD	eP	07 31 40

Date and Station	Phase	(GCT) h m s
Mar. 31		
COL	eP	08 04 20
Mar. 31		
EUR	iP	09 10 46
	i	10 58
Mar. 31		
COL	eP	09 55 16
FGU	eP	09 54 37
Mar. 31		
COL	iP	11 12 29
EUR	iP	11 15 31
FGU	eP	11 15 35
RCD	eP	11 15 29
Mar. 31		
COL	eP	13 49 21
EUR	eP	13 49 03
FGU	eP	13 48 23
	e	49 06
TUT	eP	13 48 16
Mar. 31		
COL	iP	15 06 11
	i	07 21
Mar. 31		
SJP	eP	15 12 41
Mar. 31		
COL	iP	16 05 17
	e	07 46
	i	08 21
Mar. 31		
BCN	eP	21 09 20
COL	iP	21 10 03
EUR	iP	21 09 30
	i	09 55
GCA	eP	21 09 37
TUT	eP	21 09 27
Mar. 31		
BCN	eP	22 33 34
GCA	e(P)	22 33 47
	i(S)	34 09
	e(L)	35 25
TUC	iP	22 33 09
	eL	33 50
TUT	e(P)	22 33 03
	eS	33 53

Date and Station	Phase	(GCT) h m s
Mar. 31		
EUR	eP	23 30 26
	i	31 12
	e	31 42
FGU	e(P)	23 30 21
	i	31 03
GCA	e(P)	23 30 36
	e	30 46
RCD	eP	23 30 58
SJP	eP	23 27 27

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Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
March	
BUT	
6	02.9
	12.8
8	14.3
14	03.7
30	18.5
	19.2
	21.5
31	07.5
COL	
4	08.0
	14.5
5	01.0
	06.3
	14.0
	21.7
9	21.2
10	10.7
11	05.8
	10.0
	23.5
12	01.1
17	23.9
22	02.1
EUR	
1	06.1
	23.5
2	03.9
9	18.1
10	23.4
	23.8
12	07.6
	09.9
13	19.5
14	17.0
19	00.0
21	07.2
22	11.6
	15.8
24	07.2
25	07.6
	20.8
27	03.8
FGU	
1	12.9
	18.1
	20.4
3	23.5
6	23.9
9	08.4
10	11.2
14	17.0
15	18.3
16	23.2
18	02.7
21	02.8
	04.0
25	20.6
30	0.0
31	07.5

Date and Station	Phase (GCT)
	h m s
GCA	
1	15.5
	20.5
9	08.5
15	18.3
21	02.8
25	07.5
	20.8
27	09.0
IHM	
6	02.9
8	14.3
21	05.8
30	15.4
SJP	
1	05.6
8	11.4
15	11.7
	14.4
16	09.6
17	19.9
18	06.5
	13.5
	17.3
21	11.3
27	08.1
	08.2
31	15.2
TUC	
1	04.7
1	13.3
2	05.6
	13.9
3	11.2
4	00.1
5	09.1
	18.0
6	09.6
	11.2
7	03.4
	05.9
	11.9
8	04.1
	08.7
	13.0
9	08.5
	19.5
10	07.0
	09.7
11	05.9
	11.7
12	03.7
	07.6
	16.7
	22.5
13	03.0
	03.5
14	05.4
	11.5
15	12.4
16	08.0
	11.6
	23.9
17	01.5

Date and Station	Phase (GCT)
	h m s
17	11.4
	22.6
18	09.7
	10.0
	13.6
	23.4
19	05.4
	06.6
	10.2
	15.9
20	01.7
	03.0
21	06.3
22	02.8
	08.0
	09.4
23	02.8
	10.4
24	07.3
27	00.3
	03.9
	10.9
28	02.0
	11.4
29	04.9
31	04.5
	06.4
TUT	
1	18.6
2	15.5
	22.0
7	17.7
13	17.7
14	19.6
21	21.8
UKI	
14	07.0
17	02.5

Date and Station	Phase (GCT)
	h m s

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