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SEISMOLOGICAL BULLETIN

August, 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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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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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
Aug.	h m s	°	°	
1	00 54 43.9	33.3 S.	179.3 W.	South of Kermadec Islands region. h about 60 km.
1	01 17 44.7	14.3 S.	166.7 E.	New Hebrides Islands. h about 26 km.
1	03 16 13.4	15.8 N.	46.8 W.	North Atlantic Ocean. h about 33 km.
1	05 08 20.9	47.2 S.	73.9 W.	Near coast of southern Chile. h about 33 km.
1	05 39 53.2	9.9 S.	160.5 E.	Solomon Islands. Felt. h about 50 km. Mag. 6½-6¾.
1	07 21 12.3	57.0 S.	25.1 W.	Sandwich Islands. h about 44 km.
1	09 24 22.4	56.8 S.	24.0 W.	Sandwich Islands. h about 61 km.
1	09 34 40.7	57.3 S.	26.1 W.	Sandwich Islands. h about 31 km.
1	10 27 47.7	2.1 S.	152.2 E.	New Ireland region. h about 25 km.
1	14 30 41.1	19.3 N.	104.6 W.	Near coast of Jalisco, Mexico. h about 55 km.
1	14 42 26.9	56.9 S.	25.1 W.	Sandwich Islands. h about 33 km.
1	14 58 25.4	17.9 S.	167.7 E.	New Hebrides Islands. h about 25 km.
1	16 18 49.2	25.4 S.	179.9 E.	South of Fiji Islands. h about 482 km.
1	16 42 18.3	10.6 S.	161.6 E.	Solomon Islands. h about 46 km.
1	19 26 51.1	10.2 S.	160.8 E.	Solomon Islands. h about 59 km.
1	21 06 17.8	0.6 S.	16.2 W.	North of Ascension Island. h about 25 km.
1	22 11 32.4	18.2 S.	168.6 E.	New Hebrides Islands. h about 33 km.
1	23 12 19.2	6.6 S.	148.0 E.	Near north coast of New Guinea. h about 102 km.
2	01 17 08.1	53.5 S.	134.9 W.	South Pacific Ocean. h about 22 km.
2	02 03 56.0	19.0 S.	168.0 E.	New Hebrides Islands. h about 18 km.
2	02 31 28.9	57.0 S.	24.8 W.	Sandwich Islands. h about 33 km.
2	03 59 29.9	57.8 S.	26.6 W.	Sandwich Islands. h about 67 km.
2	04 54 37.5	22.8 S.	171.8 E.	Loyalty Islands region. h about 39 km.
2	12 12 02.0	44.6 N.	148.8 E.	Kurile Islands. h about 38 km.
2	14 32 27.9	52.1 N.	157.8 E.	Near east coast of Kamchatka. h about 50 km.
2	16 55 56.8	4.9 N.	82.7 W.	South of Panama. h about 33 km.
2	19 54 23.3	9.7 S.	160.2 E.	Solomon Islands. h about 60 km.
2	20 14 42.5	12.7 S.	165.7 E.	Santa Cruz Islands. h about 33 km.
2	23 38 31.2	20.5 S.	177.6 W.	Fiji Islands region. h about 325 km.
3	00 41 36.0	14.7 N.	52.2 E.	Gulf of Aden. h about 33 km.
3	03 08 05.1	18.4 N.	66.3 W.	Puerto Rico. Felt. h about 132 km.
3	04 50 14.5	23.7 S.	180.0	South of Fiji Islands. h about 497 km.
3	06 23 46.8	4.0 S.	131.2 E.	Ceram. h about 33 km.
3	06 51 44.1	3.5 S.	130.8 E.	Ceram. h about 22 km.
3	07 32 07.8	4.4 S.	131.6 E.	Banda Sea. h about 30 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
3	14 24 58.2	52.4 N.	174.0 E.	Near Islands, Aleutian Islands. h about 41 km.
3	15 18 36.8	29.1 S.	177.2 W.	Kermadec Islands. h about 46 km.
3	16 33 50.1	21.2 S.	177.0 W.	Tonga Islands region. h about 346 km.
3	23 33 37.7	12.2 N.	143.8 E.	Mariana Islands region. Felt on Guam. h about 20 km.
4	07 17 43.8	42.9 N.	144.8 E.	Eastern Hokkaido, Japan. h about 18 km.
4	09 00 14.6	15.4 S.	173.0 W.	Samoa Islands region. h about 48 km.
4	10 36 25.7	51.6 N.	177.4 W.	Andreanof Islands, Aleutian Islands. h about 20 km.
4	11 24 18.5	16.0 N.	95.4 W.	Near coast of Oaxaca, Mexico. h about 33 km.
4	16 56 09.1	39.2 N.	117.7 W.	Western Nevada. h about 12 km. Mag. 4½ (Brk).
4	17 49 46.4	28.5 S.	176.6 W.	Kermadec Islands region. h about 69 km.
4	18 19 22.8	20.0 S.	169.7 E.	New Hebrides Islands. h about 119 km.
4	18 35 20.8	35.0 N.	38.7 W.	North Atlantic Ocean. h about 26 km.
4	22 52 54.0	45.2 N.	151.2 E.	Kurile Islands. h about 45 km.
4	23 32 24.0	25.3 S.	179.7 W.	South of Fiji Islands. h about 460 km.
5	01 07 50.3	13.8 S.	166.0 E.	New Hebrides Islands. Felt on Santo. h about 33 km.
5	01 33 12.2	49.6 N.	129.0 W.	Vancouver Island region. h about 15 km.
5	02 26 20.3	60.8 N.	148.7 W.	Kenai Peninsula. Felt at Cordova. h about 53 km.
5	06 10 18.8	52.6 N.	159.1 E.	Near east coast of Kamchatka. h about 33 km.
5	06 43 05.0	28.4 S.	176.7 W.	Kermadec Islands region. h about 66 km.
5	08 16 47.5	19.3 S.	176.0 W.	Tonga Islands region. h about 229 km.
5	09 27 45.5	18.9 S.	68.2 W.	Chile-Bolivia border. Felt at Arequipa, Peru. h about 113 km.
5	19 00 20.1	21.8 N.	93.9 E.	Burma. h about 50 km.
6	03 20 39.0	26.9 N.	141.8 E.	Bonin Islands region. h about 36 km.
6	09 04 04.1	35.4 N.	26.8 E.	Crete. h about 39 km.
6	10 34 33.4	2.7 S.	122.0 E.	Celebes. h about 69 km.
6	17 07 11.3	3.2 S.	139.6 E.	New Guinea. h about 79 km.
7	04 02 15.0	42.2 N.	142.1 E.	Southern Hokkaido, Japan. h about 60 km.
7	04 22 20.5	2.7 S.	121.6 E.	Celebes. h about 18 km.
7	05 53 03.4	18.7 S.	167.0 E.	New Hebrides Islands. h about 33 km.
7	10 43 21.6	0.3 N.	124.0 E.	Northern Celebes. h about 53 km.
7	12 22 24.2	28.4 S.	176.4 W.	Kermadec Islands region. h about 33 km. Mag. 5¼ (Brk).
7	14 28 10.6	7.1 S.	129.2 E.	Banda Sea. h about 50 km.
7	16 11 41.4	61.3 S.	160.4 E.	North of Balleny Islands. h about 49 km.
7	16 57 49.6	28.1 S.	177.4 W.	Kermadec Islands region. h about 33 km.
7	23 30 03.5	27.5 S.	176.3 W.	Kermadec Islands region. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
8	00 18 52.3	28.3 S.	176.4 W.	Kermadec Islands region. h about 33 km.
8	01 45 55.8	61.0 N.	148.6 W.	Kenai Peninsula, Alaska. h about 65 km.
8	05 36 28.9	52.1 N.	176.3 W.	Andreanof Islands, Aleutian Islands. h about 57 km.
8	07 18 34.9	8.2 S.	156.6 E.	Solomon Islands. h about 61 km.
8	07 49 55.3	24.7 S.	116.2 W.	West of Easter Island. h about 38 km.
8	09 07 55.1	7.0 S.	126.4 E.	Banda Sea. h about 408 km.
8	12 18 23.1	51.2 N.	170.7 W.	Fox Islands, Aleutian Islands. h about 33 km. Mag. 6-6¼.
8	13 37 53.0	51.5 N.	170.5 W.	Fox Islands, Aleutian Islands. h about 39 km.
8	15 42 25.3	51.4 N.	170.3 W.	Fox Islands, Aleutian Islands. h about 59 km.
8	16 39 19.2	9.8 S.	160.4 E.	Solomon Islands. h about 63 km.
8	18 02 50.2	21.0 N.	109.0 W.	Revilla Gigedo Islands region. h about 33 km.
8	18 53 15.7	34.3 N.	74.6 E.	Northern India. h about 23 km.
8	23 45 17.4	51.5 N.	170.4 W.	Fox Islands, Aleutian Islands. h about 33 km.
8	23 46 28.4	10.3 S.	160.9 E.	Solomon Islands. h about 40 km.
8	23 49 16.4	51.3 N.	170.8 W.	Fox Islands, Aleutian Islands. h about 33 km.
9	00 18 44.6	15.2 S.	173.2 W.	Samoa Islands region. h about 35 km.
9	03 24 47.2	17.9 S.	178.8 W.	Fiji Islands. h about 600 km.
9	04 02 28.2	40.8 N.	142.8 E.	Near coast of northern Honshu, Japan. h about 53 km.
9	05 54 10.6	18.8 S.	167.6 E.	New Hebrides Islands. h about 21 km.
9	16 02 35.5	19.2 S.	168.8 E.	New Hebrides Islands. Felt at Port Vila. h about 44 km. Mag. 5¾ (Brk).
9	23 00 41.6	5.7 S.	151.4 E.	New Britain region. Felt at Rabaul. h about 90 km.
10	00 58 38.9	58.7 N.	155.1 W.	Alaska Peninsula. h about 68 km.
10	01 34 23.8	54.1 N.	132.0 E.	Eastern U.S.S.R. h about 35 km.
10	01 43 32.6	30.5 S.	179.7 W.	Kermadec Islands. h about 149 km.
10	05 35 31.9	18.5 N.	144.4 E.	Mariana Islands. h about 448 km.
10	06 37 05.0	21.0 S.	177.8 W.	Fiji Islands region. h about 360 km.
10	07 32 01.1	20.3 S.	174.2 W.	Tonga Islands. h about 33 km.
10	12 03 20.9	37.2 N.	137.0 E.	Near west coast of Honshu, Japan. h about 28 km.
10	12 05 29.8	43.8 N.	144.9 E.	Eastern Hokkaido, Japan. h about 55 km.
10	16 30 54.8	38.2 S.	73.3 W.	Near coast of central Chile. h about 21 km.
10	17 22 31.6	9.7 S.	159.7 E.	Solomon Islands. h about 44 km.
11	00 43 29.6	56.3 N.	164.3 E.	Komandorskie Islands. h about 27 km.
11	06 08 16.7	32.0 N.	131.7 E.	Eastern Kyushu, Japan. h about 33 km.
11	06 55 32.2	51.5 N.	178.7 E.	Rat Islands, Aleutian Islands. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
11	09 08 23.9	17.9 S.	167.8 E.	New Hebrides Islands. h about 48 km.
11	10 24 58.9	18.6 S.	168.2 E.	New Hebrides Islands. Felt at Port Vila. h about 25 km.
11	11 04 39.1	0.2 N.	124.0 E.	Northern Celebes. h about 143 km.
11	12 51 47.7	5.3 S.	152.4 E.	New Britain region. h about 79 km.
11	15 51 34.6	43.0 N.	145.0 E.	Eastern Hokkaido, Japan. Slight tsunami. h about 50 km. Mag. 7.
11	22 37 24.7	2.9 S.	122.1 E.	Celebes. h about 33 km.
11	23 11 48.2	41.7 N.	141.8 E.	Near northeast coast of Honshu, Japan. Felt. h about 95 km.
11	23 33 52.2	43.1 N.	145.2 E.	Eastern Hokkaido, Japan. h about 50 km.
12	04 52 54.9	18.7 S.	168.2 E.	New Hebrides Islands. h about 33 km.
12	05 30 39.9	18.9 S.	167.9 E.	New Hebrides Islands. h about 25 km.
12	13 05 44.5	21.3 S.	67.0 W.	Southern Bolivia. h about 202 km.
12	13 20 14.9	17.9 S.	167.9 E.	New Hebrides Islands. h about 33 km.
13	02 33 09.9	6.1 S.	130.3 E.	Banda Sea. h about 135 km.
13	02 46 33.1	18.7 S.	167.5 E.	New Hebrides Islands. h about 33 km.
13	06 01 01.8	24.4 N.	121.7 E.	Near coast of Formosa. Felt at Taipei. h about 38 km.
13	10 19 17.5	52.9 N.	168.4 W.	Fox Islands, Aleutian Islands. h about 68 km.
13	12 45 51.8	7.8 S.	127.5 E.	Banda Sea. h about 160 km.
13	13 36 31.9	14.9 N.	60.3 W.	Windward Islands. h about 158 km.
13	15 54 23.3	52.9 N.	166.6 W.	Fox Islands, Aleutian Islands. h about 33 km.
13	18 22 50.3	19.3 S.	67.9 W.	Bolivia. h about 218 km.
13	21 58 41.7	24.9 S.	179.8 E.	South of Fiji Islands. h about 443 km.
13	22 34 18.7	45.2 N.	10.1 E.	Northern Italy. Felt. h about 22 km.
13	23 40 43.3	6.1 S.	154.8 E.	Solomon Islands. h about 111 km.
14	01 56 56.2	3.4 S.	81.3 W.	Near coast of northern Peru. h about 35 km.
14	06 37 19.6	19.7 S.	178.1 W.	Fiji Islands. h about 535 km.
14	13 35 43.7	6.7 S.	127.3 E.	Banda Sea. h about 83 km.
14	13 46 07.8	58.1 N.	158.5 W.	Alaska Peninsula. h about 80 km.
14	18 50 55.3	24.6 S.	175.7 W.	Tonga Islands region. h about 70 km. Mag. 5½ (Brk).
14	22 04 59.7	31.6 N.	131.5 E.	Near east coast of Kyushu, Japan. h about 20 km.
14	23 28 46.5	20.4 S.	169.4 E.	New Hebrides Islands region. Felt at Port Vila. h about 97 km. Mag. 6-6¼.
15	12 25 58.8	59.1 N.	136.9 W.	Near south coast of Alaska. h about 36 km.
15	15 35 31.0	47.8 N.	155.3 E.	Kurile Islands. h about 34 km.
15	17 51 18.6	14.8 S.	168.3 E.	New Hebrides Islands. h about 36 km.
15	19 03 55.7	33.0 N.	142.4 E.	South of Honshu, Japan. h about 39 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
15	19 43 54.8	23.5 S.	180.0	South of Fiji Islands. h about 595 km.
15	23 26 40.2	32.8 N.	142.2 E.	South of Honshu, Japan. h about 33 km.
16	03 33 52.6	32.0 S.	177.9 W.	Kermadec Islands. h about 70 km.
16	04 04 07.9	32.1 S.	177.9 W.	Kermadec Islands. h about 33 km.
16	04 17 24.8	31.0 S.	66.1 W.	La Rioja Province, Argentina. h about 213 km.
16	08 57 36.9	32.4 N.	142.1 E.	South of Honshu, Japan. h about 32 km.
16	11 11 44.0	6.8 S.	156.0 E.	Solomon Islands. h about 55 km.
16	12 23 12.7	36.5 N.	71.2 E.	Hindu Kush. h about 220 km.
16	15 53 42.4	33.7 N.	137.2 E.	Off east coast of Honshu, Japan. h about 340 km.
16	16 15 57.5	13.9 S.	14.7 W.	South of Ascension Island. h about 25 km.
16	19 19 01.3	31.9 S.	178.0 W.	Kermadec Islands. h about 51 km.
16	22 22 08.7	11.3 N.	125.2 E.	Leyte, Philippine Islands. h about 50 km.
17	01 04 35.2	31.7 S.	179.1 W.	Kermadec Islands. h about 45 km.
17	03 35 42.3	35.7 N.	69.7 E.	Hindu Kush. h about 205 km.
17	05 06 02.7	55.6 S.	125.5 W.	South Pacific Ocean. h about 33 km.
17	06 36 23.0	34.6 S.	109.0 W.	South of Easter Island. h about 25 km.
17	06 51 13.8	34.4 N.	142.6 E.	Off east coast of Honshu, Japan. h about 33 km.
17	08 36 17.9	6.7 S.	147.3 E.	Near north coast of New Guinea. h about 101 km.
17	11 37 13.9	39.0 N.	140.8 E.	Northern Honshu, Japan. h about 125 km.
17	12 54 47.9	32.0 S.	178.3 W.	Kermadec Islands. h about 33 km.
17	17 49 25.2	18.4 S.	168.5 E.	New Hebrides Islands. h about 52 km.
17	17 49 43.3	17.4 S.	72.7 W.	Near coast of southern Peru. h about 46 km.
17	21 16 30.1	46.4 N.	149.3 E.	Kurile Islands. h about 160 km. Mag. 6¾.
18	05 30 00.8	28.4 N.	139.3 E.	Bonin Islands. h about 440 km.
18	10 16 49.4	8.5 S.	156.5 E.	Solomon Islands. h about 33 km.
18	11 01 26.5	24.2 S.	179.9 W.	South of Fiji Islands. h about 519 km.
18	12 51 24.5	7.0 S.	145.8 E.	New Guinea. h about 168 km.
19	01 12 24.5	18.4 S.	167.1 E.	New Hebrides Islands. h about 25 km.
19	02 42 58.2	43.3 N.	145.0 E.	Eastern Hokkaido, Japan. h about 32 km.
19	04 56 24.1	44.7 N.	122.5 W.	Northwestern Oregon. Minor damage at Albany and Lebanon. h about 33 km. Mag. 4.5.
19	05 09 49.5	10.8 S.	71.0 W.	Peru-Brazil border. Felt at Arequipa, Peru. h about 649 km. Mag. 7.
19	05 33 30.6	36.2 N.	136.5 E.	Near west coast of Honshu, Japan. 10 killed, 34 injured and moderate property damage at Fukui, Gifu and Ishikawa. h about 17 km. Mag. 7¼.
19	06 21 54.9	40.3 N.	124.2 W.	Near coast of northern California. h about 33 km.
19	07 08 49.5	56.9 S.	25.2 W.	Sandwich Islands. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
19	08 07 18.3	36.1 N.	136.6 E.	Near west coast of Honshu, Japan. h about 25 km.
19	12 45 05.5	43.9 N.	145.5 E.	Eastern Hokkaido, Japan. h about 50 km.
19	14 19 05.8	18.1 S.	178.4 W.	Fiji Islands. h about 623 km.
19	14 52 29.7	18.0 N.	68.8 W.	Mona Passage. Felt on Puerto Rico and at Santo Domingo, Dominican Republic. h about 100 km. Mag. 5½ (Brk).
19	16 01 26.3	11.5 S.	70.8 W.	Peru-Brazil border. h about 610 km.
19	17 02 04.9	45.1 N.	111.3 W.	Southwestern Montana. h about 33 km.
19	20 26 18.0	2.1 N.	96.9 E.	Near coast of Sumatra. h about 25 km.
19	21 22 22.9	6.1 N.	126.1 E.	Near coast of Mindanao, Philippine Islands. h about 222 km.
19	21 46 52.7	14.7 S.	167.1 E.	New Hebrides Islands. h about 75 km.
20	00 07 24.0	10.4 S.	70.6 W.	Peru-Brazil border. h about 614 km.
20	01 30 19.2	17.9 S.	169.0 E.	New Hebrides Islands. h about 36 km.
20	02 26 46.8	16.6 S.	172.6 W.	Tonga Islands region. h about 25 km.
20	04 28 37.4	31.6 N.	116.5 W.	Baja, California. h about 33 km. Mag. 4.6.
20	05 04 14.3	17.9 S.	178.8 W.	Fiji Islands. h about 592 km.
20	09 10 11.4	11.5 S.	70.6 W.	Peru-Brazil border. h about 630 km.
20	10 20 01.3	6.2 S.	154.9 E.	Solomon Islands. h about 105 km.
20	12 48 56.4	0.5 N.	29.0 W.	Mid-Atlantic Ocean. h about 33 km.
20	15 15 06.3	15.6 N.	92.4 W.	Chiapas, Mexico. h about 33 km.
21	01 28 50.5	24.0 S.	67.3 W.	Salta Province, Argentina. h about 197 km.
21	02 06 45.3	22.7 S.	179.3 W.	Fiji Islands region. h about 540 km.
21	07 00 19.6	36.4 N.	71.7 E.	Hindu Kush. h about 120 km.
21	07 58 52.9	19.1 N.	108.7 W.	Revilla Gigedo Islands region. h about 33 km.
21	11 20 39.7	51.1 N.	170.9 W.	Fox Islands, Aleutian Islands. h about 33 km.
21	16 06 55.4	17.9 S.	174.4 W.	Tonga Islands. h about 74 km. Mag. 5¾-6 (Brk).
21	16 39 03.8	7.3 S.	129.0 E.	Banda Sea. h about 187 km.
21	17 00 38.9	40.9 N.	139.1 E.	Near coast of northern Honshu, Japan. Felt. h about 40 km.
22	03 03 56.6	17.8 S.	168.5 E.	New Hebrides Islands. h about 77 km.
22	06 12 11.9	42.9 N.	144.9 E.	Eastern Hokkaido, Japan. h about 50 km.
22	08 59 27.9	13.5 S.	166.7 E.	New Hebrides Islands. h about 63 km.
22	22 21 47.6	52.5 N.	172.2 W.	Fox Islands, Aleutian Islands. h about 53 km.
22	23 19 32.6	33.0 N.	116.2 W.	San Diego County, California. Felt at San Diego. h about 25 km. Mag. 4.4.
23	01 00 47.1	33.1 N.	116.3 W.	San Diego County, California. Felt at San Diego and in Imperial Valley. h about 27 km. Mag. 4.7.
23	04 12 35.9	38.9 N.	68.7 E.	Tadzhik, S.S.R. Felt at Dushambe. h about 25 km.
23	14 37 46.9	5.6 N.	126.3 E.	Near coast of Mindanao, Philippine Islands. h about 25 km.
23	19 13 05.0	7.3 S.	13.4 W.	Ascension Island region. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
24	04 52 20.5	43.1 N.	145.3 E.	Eastern Hokkaido, Japan. h about 44 km.
24	09 11 24.5	14.8 S.	167.2 E.	New Hebrides Islands. Felt on Santo. h about 91 km.
24	09 51 18.3	43.0 N.	141.7 E.	Hokkaido, Japan. h about 125 km.
24	17 25 38.2	5.8 S.	150.1 E.	New Britain region. h about 74 km.
24	20 58 13.2	21.4 S.	173.9 E.	Loyalty Islands. h about 32 km.
24	21 59 42.7	5.3 S.	151.7 E.	New Britain region. h about 95 km.
24	22 40 54.6	43.0 N.	145.3 E.	Eastern Hokkaido, Japan. h about 45 km.
25	05 42 01.2	15.3 N.	87.0 W.	Honduras. h about 48 km.
25	05 51 46.3	0.9 S.	148.3 E.	Admiralty Islands region. h about 51 km.
25	06 59 30.2	53.7 N.	161.2 W.	Alaska Peninsula. h about 36 km.
25	12 21 55.0	47.5 N.	10.8 E.	Austria-Germany border. Felt at Reutte, Austria. h about 14 km.
25	21 26 22.7	8.1 S.	122.8 E.	Flores Sea. h about 100 km.
26	01 19 39.1	7.1 N.	73.2 W.	Colombia. h about 183 km.
26	02 45 29.0	20.2 S.	169.0 E.	Loyalty Islands. h about 33 km.
26	05 09 23.4	17.7 S.	168.2 E.	New Hebrides Islands. h about 39 km.
26	08 15 58.1	6.3 S.	152.9 E.	Solomon Islands region. h about 33 km.
26	08 45 10.8	43.0 N.	144.6 E.	Eastern Hokkaido, Japan. h about 45 km.
26	14 37 40.6	17.7 N.	99.6 W.	Guerrero Province, Mexico. h about 152 km.
26	18 02 33.0	13.5 S.	166.3 E.	New Hebrides Islands. h about 56 km.
26	18 41 57.2	56.1 S.	26.5 W.	Sandwich Islands. h about 33 km.
26	18 49 47.1	18.1 N.	146.4 E.	Mariana Islands. h about 53 km.
27	00 58 35.9	21.1 N.	109.2 W.	Revilla Gigedo Islands region. h about 33 km.
27	01 51 51.8	15.4 S.	13.1 W.	South of Ascension Island. h about 49 km.
27	04 20 19.7	7.5 N.	82.1 W.	Near south coast of Panama. h about 33 km.
27	06 43 29.9	18.6 S.	178.2 W.	Fiji Islands. h about 488 km.
27	15 28 25.0	22.9 S.	114.4 W.	Easter Island region. h about 25 km.
27	16 22 12.8	47.0 N.	154.0 E.	Kurile Islands. h about 45 km. Mag. 6½.
27	16 47 49.1	18.1 N.	146.6 E.	Mariana Islands. h about 58 km. Mag. 6¼-6½.
27	17 02 27.3	2.2 N.	128.6 E.	Halmahera. h about 238 km.
27	17 23 18.6	18.0 N.	146.2 E.	Mariana Islands. h about 82 km.
27	17 57 59.0	18.1 N.	146.5 E.	Mariana Islands. h about 60 km.
27	19 50 47.2	47.5 N.	154.0 E.	Kurile Islands. h about 45 km.
27	20 56 20.9	46.9 N.	154.1 E.	Kurile Islands. h about 51 km.
27	20 59 47.4	47.4 N.	154.2 E.	Kurile Islands. h about 45 km.
27	21 11 38.0	18.0 N.	146.7 E.	Mariana Islands. h about 55 km.
27	22 08 45.2	35.6 N.	23.8 E.	Crete. Felt. h about 33 km.
28	06 28 19.4	15.2 S.	70.2 W.	Southern Peru. h about 185 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Aug.	h m s	°	°	
28	07 41 26.7	12.7 S.	169.6 E.	Santa Cruz Islands region. h about 640 km.
28	09 10 13.0	53.8 N.	159.1 E.	Near east coast of Kamchatka. h about 25 km.
28	09 44 14.2	18.9 S.	177.8 W.	Fiji Islands. h about 548 km.
28	10 40 20.2	17.0 S.	70.7 W.	Southern Peru. h about 120 km.
28	12 13 50.6	46.8 N.	153.9 E.	Kurile Islands. h about 45 km.
28	13 08 05.7	46.8 N.	154.1 E.	Kurile Islands. h about 45 km.
28	15 04 53.1	47.8 S.	99.0 E.	Southwest of Australia. h about 33 km.
28	18 01 58.1	46.9 N.	154.2 E.	Kurile Islands. h about 26 km.
28	20 26 01.4	23.0 S.	113.5 W.	Easter Island region. h about 33 km.
28	21 27 16.9	14.1 S.	73.9 W.	Peru. h about 100 km.
29	04 15 49.4	13.8 S.	166.0 E.	New Hebrides Islands. h about 33 km.
29	05 55 37.6	42.9 N.	145.3 E.	Eastern Hokkaido, Japan. h about 50 km.
29	07 50 37.7	5.9 S.	147.3 E.	Near north coast of New Guinea. h about 37 km.
29	10 04 10.9	28.4 S.	176.0 W.	Kermadec Islands region. h about 33 km.
29	10 44 44.6	7.3 S.	128.3 E.	Banda Sea. h about 166 km.
29	11 48 31.1	23.2 S.	68.1 W.	Northern Chile. h about 125 km.
29	14 51 14.2	52.4 N.	170.8 W.	Fox Islands, Aleutian Islands. h about 41 km. Mag. 5-5¼ (Pal).
29	17 12 53.0	19.4 N.	68.7 W.	Near Dominican Republic. h about 33 km.
29	17 31 04.2	7.1 S.	125.2 E.	Banda Sea. h about 551 km.
29	19 49 52.9	47.0 N.	153.8 E.	Kurile Islands. h about 17 km.
29	21 33 57.1	15.4 S.	167.5 E.	New Hebrides Islands. Felt on Santo. h about 135 km.
29	22 36 23.1	53.1 N.	166.7 W.	Fox Islands, Aleutian Islands. h about 66 km.
30	02 25 45.4	53.9 N.	166.3 W.	Fox Islands, Aleutian Islands. h about 67 km.
30	03 35 02.7	5.8 N.	34.4 W.	Mid-Atlantic Ocean. h about 33 km. Mag. 4½-4¾ (Pal).
30	03 45 28.0	3.9 S.	77.8 W.	Northern Peru. h about 33 km.
30	14 51 38.6	39.8 N.	77.7 E.	Sinkiang Province, China. h about 33 km.
30	17 42 30.3	15.7 S.	69.4 W.	Peru-Bolivia border. h about 250 km.
30	19 10 54.4	21.1 S.	170.2 E.	Loyalty Islands. h about 46 km.
30	22 16 08.3	3.4 S.	135.7 E.	Western New Guinea. h about 60 km.
31	00 22 47.3	28.3 S.	176.7 W.	Kermadec Islands region. h about 56 km.
31	01 48 37.5	10.7 S.	70.9 W.	Peru-Brazil border. h about 626 km. Mag. 7-7¼.
31	01 57 08.0	10.5 S.	70.7 W.	Peru-Brazil border. Felt at Arequipa, Peru. h about 629 km. Mag. 7½.
31	03 30 18.2	15.4 S.	177.4 W.	Fiji Islands region. h about 388 km.
31	03 56 49.4	15.1 S.	173.1 W.	Samoa Islands region. h about 60 km.
31	14 58 59.0	9.6 S.	78.7 W.	Near coast of northern Peru. h about 60 km.
31	21 06 22.8	3.7 S.	153.4 E.	New Ireland region. Felt at Rabaul. h about 40 km.
31	23 24 42.6	3.2 S.	139.4 E.	New Guinea. h about 108 km.

Date and Station		Phase (GCT)
		h m s
Aug. 1		
EUR	eP	01 07 52
TUC	eP	01 07 47
	ipP	08 04
Aug. 1		
COL	iP	01 30 26
EUR	iP	01 30 44
Aug. 1		
COL	iP	03 28 23
EUR	eP	03 26 47
GCA	eP	03 26 18
HHM	e(P)	03 26 43
RCD	eP	03 25 45
SJP	eP	03 20 30
TUC	eP	03 26 19
Aug. 1		
FGU	eP	04 14 59
GCA	eP	04 15 18
	e	15 56
Aug. 1		
COL	eP'	05 27 17
EUR	eP	05 21 36
Aug. 1		
BCN	iP	05 52 58
	ePP	56 34
	e	06 02 11
BOZ	eP	05 53 18
	eSKS	06 03 52
BUT	eP	05 53 14
	eSKS	06 03 52
COL	iP	05 52 20
	eSS	06 11 27
CSC	eP'	05 58 50
	ePKKP	06 09 03
EUR	iP	05 52 57
	iPP	56 29
	i	56 40
	i	56 59
	iPPP	58 33
	eS	06 03 37
	iPKKP	11 03
	eP'P'	18 37
FGU	eP	05 53 21
GCA	eP	05 53 10
	ePP	56 55
GUA	iP	05 45 46
	e	45 52
	iL	53 21
HON	iP	05 48 54
	iS	56 07
	eL	06 02 54
HHM	iP	05 53 10
	iSKS	06 03 47
KIP	iP	05 48 56
RCD	eP	05 53 43
	ipP	53 53
	ePP	58 12
SLC	eP	05 53 12
	eSKS	06 03 50
SJP	eP'	05 59 10
	e	06 03 09
SIT	eP	05 52 25
	eS	06 02 48
TUC	eP	05 53 11
	ePP	57 04
	eSKS	06 03 54
	eS	04 28
UKI	eP	05 52 30
WAS	eP'	05 58 45
	ePP	06 00 23
	e(S)	08 32
	ePS	09 54
Aug. 1		
EUR	iP	06 22 40
Aug. 1		
BHP	iP	07 33 28
BCN	eP'	07 40 01
BOZ	e(P')	07 40 11
BUT	eP'	07 40 14
COL	eP'	07 40 55
	i	41 05
	i	41 20
	i	41 30
	i	42 56
EUR	eP'	07 40 09
	ePP	41 49
	eSKS	47 20
	ePKKP	50 02
	eSKKP	53 32
FGU	eP'	07 40 02
	ePP	41 29
GCA	e(P')	07 40 00
HHM	eP'	07 40 17
RCD	e(P')	07 40 02
SJP	iP	07 33 34
	ePP	36 41
	e(S)	43 51
TUC	e(P')	07 39 52
Aug. 1		
EUR	eP	08 15 56
Aug. 1		
HHM	e(P)	09 03 46
	i	03 59
	iS	04 55
Aug. 1		
FGU	e(P)	09 29 05
	e	29 43
Aug. 1		
COL	eP'	09 44 05
	i	44 14
	i	44 24
	i	45 00
	i	45 48
EUR	eP'	09 43 28
	ePP	44 58
	ePKKP	53 23
FGU	eP'	09 43 38
GCA	eP'	09 43 09
HHM	iP'	09 43 26
RCD	e(P')	09 44 32
SJP	iP	09 36 43
	e	36 49
	epP	36 59
	e	37 11
Aug. 1		
BHP	iP	09 46 45
BCN	eP'	09 53 27
	ePP	54 47
BOZ	e(P')	09 53 39
BUT	eP'	09 53 40
COL	eP'	09 54 22
	i	54 31
	eSKS	10 00 51
CSC	eP'	09 52 42
EUR	iP'	09 53 34
	iPP	55 11
	eSKS	10 00 34
	ePKKP	03 28
	i	03 46
	eSKKP	07 30
FGU	e(P')	09 52 50
	e	53 58
	ePP	54 57
	e	10 02 56
	ePKKP	03 25
GCA	eP'	09 53 25
	ePP	54 48
HHM	iP'	09 53 43
	iPP	55 41
RCD	eP'	09 53 26
SLC	eP'	09 53 32
	ePP	55 06
SJP	iP	09 47 00
	epP	47 11
	e	50 57
	e(S)	57 13
TUC	e(P')	09 53 19
Aug. 1		
COL	e(P)	10 38 43
EUR	eP	10 39 21
Aug. 1		
COL	iP	10 39 56
EUR	e(P)	10 41 05
Aug. 1		
EUR	iP	10 42 45
FGU	eP	10 42 59
Aug. 1		
COL	iP	12 00 29
EUR	iP	12 01 07
Aug. 1		
COL	iP	12 05 41
EUR	iP	12 05 18
Aug. 1		
FGU	eP	12 16 53
Aug. 1		
EUR	e(P)	14 28 46
Aug. 1		
BCN	eP	14 35 01
	eL	41 11
EUR	iP	14 35 37
	e	35 58
	eL	43 23
FGU	eP	14 35 32
GCA	eP	14 34 40
	e	34 57
HHM	eP	14 36 46
RCD	eP	14 35 59
	eL	44 01
TUC	e(P)	14 34 22
	eL	38 22

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Date and Station		Phase	(GCT) h m s
Aug. 1			
COL	eP'		15 02 12
	i		02 20
EUR	e(P')		15 01 33
	ePP		03 19
HHM	iP'		15 01 33
Aug. 1			
SJP	e(P)		15 55 00
Aug. 1			
COL	iP		16 31 13
EUR	iP		16 30 50
TUC	iP		16 30 48
Aug. 1			
COL	e(P)		16 54 45
EUR	eP		16 55 20
Aug. 1			
EUR	i(P)		19 39 07
	i		39 13
Aug. 1			
COL	iP		19 39 18
EUR	iP		19 39 55
	ipP		40 08
	i		40 30
	i		40 54
Aug. 1			
EUR	e(P)		20 14 16
Aug. 1			
EUR	eP		20 22 23
	e		23 32
Aug. 1			
COL	e(P)		22 24 26
EUR	eP		22 24 34
	i		24 42
FGU	eP		22 24 52
Aug. 1			
EUR	e(P)		22 41 53
Aug. 1			
THU	i(P)		23 33 19
Aug. 2			
EUR	eP		00 00 39
Aug. 2			
EUR	e(P)		00 07 25
Aug. 2			
BCN	eP		01 30 17
EUR	iP		01 30 21
HON	eL		01 52 40
TUC	eP		01 30 02
	i		30 12
	i		30 44

Date and Station		Phase	(GCT) h m s
Aug. 2			
COL	eP		02 16 55
	i		17 50
EUR	iP		02 17 04
	i		17 14
TUC	eP		02 17 11
Aug. 2			
GCA	eP		02 30 23
Aug. 2			
COL	iP'		02 51 19
FGU	eP'		02 50 12
	ePP		51 45
GCA	e(P')		02 49 43
HHM	eP'		02 50 32
	ePP		52 34
	i		55 12
SJP	eP		02 43 51
	e		44 10
	e		47 29
TUC	eP'		02 50 07
Aug. 2			
COL	iP'		03 01 37
FGU	e(P')		03 00 22
Aug. 2			
EUR	eP		03 05 25
Aug. 2			
COL	eP'		03 10 26
Aug. 2			
COL	iP		03 25 01
Aug. 2			
EUR	e(P)		04 07 06
Aug. 2			
COL	eP'		04 19 12
EUR	eP'		04 18 14
HHM	e(P')		04 18 23
Aug. 2			
COL	e(P)		05 07 45
EUR	eP		05 07 42
Aug. 2			
COL	e(P)		06 06 13
Aug. 2			
EUR	eP		08 30 53
Aug. 2			
TUC	eP		08 44 43
Aug. 2			
COL	eP		09 57 42

Date and Station		Phase	(GCT) h m s
EUR	iP		09 59 34
FGU	e(P)		09 59 51
HHM	i(P)		09 59 28
Aug. 2			
COL	iP		11 57 40
Aug. 2			
BCN	eP		12 23 10
BOZ	eP		12 22 46
BUT	eP		12 22 39
COL	iP		12 19 33
EUR	eP		12 22 52
	i		23 30
FGU	eP		12 23 10
HHM	i(P)		12 22 24
RCD	eP		12 23 17
SLC	eP		12 23 03
THU	iP		12 21 45
TUC	iP		12 23 41
	i		24 03
Aug. 2			
EUR	e(P)		13 36 22
Aug. 2			
COL	eP		13 58 21
	e		58 49
EUR	eP		13 55 25
Aug. 2			
COL	e(P)		14 29 57
Aug. 2			
BCN	eP		14 42 41
COL	iP		14 38 37
	i		38 42
	i		39 16
EUR	eP		14 42 36
RCD	eP		14 42 43
Aug. 2			
COL	e(P)		15 03 47
Aug. 2			
BHP	iP		16 57 11
	iL		58 33
GCA	eP		17 03 33
RCD	e(P)		17 03 56
SJP	iP		17 00 42

Date and Station		Phase	(GCT) h m s
Aug. 2			
FGU	e(P)		18 03 53
Aug. 2			
COL	iP		20 06 48
	ipP		07 04
EUR	i(P)		20 07 25
Aug. 2			
COL	iP		20 27 15
	i		27 31
	i		28 27
EUR	eP		20 27 39
	e		27 54
Aug. 2			
FGU	eP		20 49 09
	i		49 17
	eS		49 55
Aug. 2			
EUR	eP		21 17 11
Aug. 2			
BOZ	eP		23 12 05
FGU	e(P)		23 12 56
	eS		13 53
HHM	e(P)		23 12 45
	iS		13 45
Aug. 2			
EUR	e(P)		23 45 16
FGU	eP		23 44 42
Aug. 2			
EUR	eP		23 50 24
COL	eP		23 50 48
	epP		52 06
Aug. 3			
COL	e(P)		00 59 15
Aug. 3			
EUR	eP'		01 00 35
Aug. 3			
COL	e(P)		02 37 50
Aug. 3			
CSC	eP		03 01 15
	e		05 06
Aug. 3			
BHP	iP		03 11 43
BOZ	iP		03 16 17
	eScP		21 34
BUT	iP		03 16 25
COL	iP		03 19 03
CSC	iP		03 12 32

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Date and Station		Phase (GCT)
		h m s
EUR	iP	03 16 30
	ipP	16 55
	iPcP	17 29
	ePP	18 02
	iScP	21 40
FGU	iP	03 15 53
	iPcP	17 42
GCA	iP	03 16 00
	iPcP	17 46
	iScP	21 25
HHM	iP	03 16 38
	eScP	21 45
RCD	iP	03 15 29
SLC	iP	03 16 07
	eScP	21 28
SJP	iP	03 08 25
	iS	08 35
THU	iP	03 17 47
	e	17 56
TUC	iP	03 15 48
	epP	16 09
	isP	16 18
	ePP	17 11
	iPcP	17 40
	iScP	21 20
	eS	21 59
	iScS	25 38
TUT	iP	03 15 48
	ipP	16 11
	iScP	21 19
WAS	iP	03 12 54
	ipP	13 15
	iS	16 57
Aug. 3		
SJP	eP	03 23 14
Aug. 3		
EUR	iP	05 02 05
TUC	iP	05 02 07
Aug. 3		
COL	iP	05 23 15
	e	26 32
Aug. 3		
EUR	eP	06 04 05
Aug. 3		
FGU	e(P)	06 19 35
Aug. 3		
COL	iP	07 04 42
	e	09 45
EUR	eP'	07 09 55
	ePP	10 48
HON	eP	07 03 20

Date and Station		Phase (GCT)
		h m s
KIP	iP	07 03 22
RCD	e(P')	07 10 33
SJP	eP'	07 11 31
	e	12 16
TUC	eP'	07 10 03
Aug. 3		
FGU	eP	11 31 01
	e	32 09
Aug. 3		
COL	i(P)	12 46 01
Aug. 3		
COL	iP	14 30 05
	ipP	30 12
	iPcP	33 11
	eS	34 28
EUR	eP	14 33 41
HHM	eP	14 33 09
RCD	eP	14 34 16
Aug. 3		
THU	eP	14 40 25
Aug. 3		
EUR	e(P)	15 23 37
Aug. 3		
EUR	eP	15 31 29
Aug. 3		
FGU	eP	16 45 38
	iS	46 10
Aug. 3		
COL	e(P)	16 46 06
	epP	47 33
Aug. 3		
THU	i(P)	19 27 14
Aug. 3		
THU	eP	20 06 42
Aug. 3		
FGU	iP	23 29 40
Aug. 3		
BCN	eP	23 46 47
BOZ	eP	23 46 47
BUT	eP	23 46 40
COL	iP	23 44 48
	iPcP	45 12
	isP	45 31
	ePP	47 38
	eScS	55 08
EUR	iP	23 46 29
	ePP	50 00
FGU	e(P)	23 46 58

Date and Station		Phase (GCT)
		h m s
GCA	eP	23 46 58
HHM	iP	23 46 33
	ipP	46 42
	iS	57 19
TUC	eP	23 47 09
Aug. 4		
TUC	eP	01 12 23
Aug. 4		
EUR	e(P)	04 01 51
Aug. 4		
THU	eP	05 31 32
Aug. 4		
COL	iP	07 25 44
EUR	eP	07 28 46
FGU	eP	07 29 16
GCA	e(P)	07 29 19
HHM	iP	07 28 32
RCD	e(P)	07 29 30
THU	eP	07 27 44
	i	28 10
	i	28 35
TUC	eP	07 29 47
Aug. 4		
COL	eP	08 52 39
	i	52 48
Aug. 4		
COL	iP	09 12 32
	e	12 39
	i	12 58
GCA	e(P)	09 11 40
	e	12 10
Aug. 4		
BCN	eP	10 44 56
	e	47 39
BOZ	eP	10 44 27
BUT	eP	10 44 18
COL	iP	10 41 03
	i	41 18
	i	42 43
	iPcP	45 16
	iScP	48 47
EUR	iP	10 44 33
	i	45 08
	i	45 29
	iPcP	46 18
GCA	eP	10 45 26

Date and Station		Phase (GCT)
		h m s
HHM	iP	10 44 01
	iPcP	46 08
RCD	eP	10 45 10
SJP	eP	10 49 20
TUC	iP	10 45 34
	i	45 44
TUT	eP	10 45 34
Aug. 4		
BCN	eP	11 29 45
BUT	eP	11 30 53
COL	iP	11 34 23
	i	34 48
	i	35 08
FGU	eP	11 29 55
	e	31 30
GCA	eP	11 29 46
HHM	iP	11 31 16
RCD	e(P)	11 30 16
SLC	eP	11 30 14
TUC	iP	11 29 07
	eL	35 20
TUT	eP	11 29 07
	eL	35 56
Aug. 4		
EUR	iP	12 28 35
FGU	eP	12 30 06
Aug. 4		
EUR	iP	12 53 33
Aug. 4		
EUR	iP	13 46 38
Aug. 4		
COL	e(P)	13 58 33
	e	58 44
GCA	e(P)	13 57 45
TUC	i(P)	13 56 44
	e	57 17
Aug. 4		
RCD	eP	14 01 44
Aug. 4		
COL	iP	14 36 58
	i	37 35
EUR	iP	14 35 58

Date and Station		Phase (GCT)
		h m s
HHM	iP	14 35 08
	i	37 27
RCD	eP	14 37 01
Aug. 4		
COL	e(P)	16 08 56
Aug. 4		
BCN	eP	16 57 09
BOZ	eP	16 58 10
	eL	17 00 31
BUT	eP	16 58 33
EUR	iP	16 56 33
FGU	eP	16 57 49
	eS	59 10
GCA	eP	16 57 46
	iS	59 01
HHM	e(P)	16 58 30
	eS	17 00 37
	iL	01 04
UKI	eP	16 57 15
Aug. 4		
THU	iP	17 47 45
	i	50 06
	i	55 03
	i	56 31
Aug. 4		
EUR	eP	18 02 31
GCA	e(P)	18 02 42
Aug. 4		
COL	i(P)	18 32 16
	epP	32 45
EUR	iP	18 32 20
Aug. 4		
BCN	eP	18 45 34
COL	e(P)	18 46 07
EUR	eP	18 45 30
	e	46 38
FGU	e(P)	18 44 50
GCA	e(P)	18 45 03
	e	45 13
HHM	iP	18 44 58
Aug. 4		
COL	eP	19 00 40
Aug. 4		
EUR	eP	20 38 53
Aug. 4		
COL	e(P)	22 04 10

Date and Station		Phase (GCT)
Aug. 4		h m s
BCN	eP	23 03 41
BOZ	eP	23 03 27
BUT	eP	23 03 19
COL	iP	23 00 11
	i	01 16
	i	01 33
	iPcP	02 21
	eS	06 03
CSC	eP	23 05 41
EUR	iP	23 03 32
	ipP	03 47
	i	04 11
FGU	eP	23 03 51
GCA	eP	23 03 59
HHM	iP	23 03 03
	iS	11 24
RCD	eP	23 03 58
SIT	eP	23 01 11
THU	iP	23 02 29
	i(pP)	02 40
Aug. 4		
COL	e(P)	23 46 37
EUR	eP	23 44 26
	epP	46 10
FGU	eP	23 44 40
GCA	e(P)	23 44 34
	epP	46 19
Aug. 5		
COL	iP	01 06 41
GCA	eP	01 06 13
Aug. 5		
BCN	eP	01 20 47
COL	iP	01 20 27
EUR	eP	01 20 47
	ipP	20 56
	e	21 09
Aug. 5		
EUR	e(P)	01 36 26
GCA	eP	01 37 24
RCD	eP	01 37 30
Aug. 5		
BCN	eP	02 32 52
BOZ	eP	02 31 57
	eS	36 35
	e	41 27

Date and Station		Phase (GCT)
		h m s
BUT	eP	02 31 47
	eS	36 13
COL	iP	02 27 22
	iS	28 07
CSC	eP	02 35 12
EUR	iP	02 32 21
	ipP	32 36
	iSP	32 51
	PP	33 15
	i	34 26
FGU	eP	02 32 35
	iPcP	35 30
GCA	eP	02 32 56
	ePcP	35 37
HHM	iP	02 31 25
	ipP	31 40
	iPcP	35 12
	iS	35 36
	eScP	38 57
RCD	eP	02 32 40
SLC	eP	02 32 28
SJP	eP	02 37 30
SIT	eP	02 28 07
WAS	eP	02 34 53
	eL	48 46
Aug. 5		
COL	iP	06 16 19
EUR	iP	06 20 04
Aug. 5		
COL	iP	06 56 25
	ipP	56 44
EUR	eP	06 55 51
GCA	e(P)	06 55 59
Aug. 5		
EUR	e(P)	07 46 12
	e	47 00
Aug. 5		
BCN	eP	07 58 19
Aug. 5		
COL	eP	08 29 10
	ipP	30 09
EUR	e(P)	08 28 40
Aug. 5		
COL	e(P)	09 07 54
Aug. 5		
COL	e(P)	09 16 40

Date and Station		Phase (GCT)
Aug. 5		h m s
BCN	iP	09 38 51
BOZ	eP	09 39 20
BUT	eP	09 39 25
COL	i(P)	09 41 33
	e	41 51
	iPP	45 40
	i	46 13
CSC	eP	09 37 03
EUR	iP	09 39 09
	ipP	39 38
	e	40 10
FGU	eP	09 38 53
	ipP	39 22
GCA	eP	09 38 44
GUA	eP'	09 47 20
	ipP'	47 47
HHM	iP	09 39 39
	ipP	40 08
RCD	eP	09 38 52
SLC	eP	09 39 01
SJP	eP	09 34 49
	i	34 56
	ipP	35 16
	eS	40 22
Aug. 5		
COL	eP	10 22 36
Aug. 5		
COL	e(P)	13 07 47
	i	08 06
Aug. 5		
COL	e(P)	13 30 28
Aug. 5		
COL	iP	13 41 34
Aug. 5		
EUR	e(P)	16 55 55
SJP	eP	16 50 08
Aug. 5		
COL	i(P)	18 50 49
Aug. 5		
COL	iP	19 12 34
Aug. 5		
EUR	e(P)	19 57 59
Aug. 6		
EUR	eP	01 09 34

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Date and Station		Phase (GCT)
		h m s
Aug. 6		
EUR	eP	02 24 16
Aug. 6		
COL	e(P)	03 15 16
Aug. 6		
COL	eP	03 30 29
EUR	eP	03 32 58
FGU	eP	03 33 17
GCA	e(P)	03 33 20
HHM	iP	03 32 43
RCD	eP	03 33 27
Aug. 6		
GCA	e(P)	04 19 26
Aug. 6		
COL	e(P)	05 18 19
Aug. 6		
COL	e(P)	06 09 11
Aug. 6		
COL	e(P)	07 42 31
Aug. 6		
COL	e(P)	09 04 49
Aug. 6		
COL	e(P)	09 13 10
Aug. 6		
COL	e(P)	09 16 13
	i	16 17
HHM	iP	09 16 59
Aug. 6		
COL	i(P)	10 25 41
EUR	eP	10 24 40
Aug. 6		
COL	eP	10 37 47
Aug. 6		
COL	e(P)	10 46 04
Aug. 6		
COL	e(P)	11 38 49
Aug. 6		
COL	e(P)	13 52 51
Aug. 6		
BCN	eP	13 56 43
Aug. 6		
COL	iP	15 28 03
Aug. 6		
COL	iP	15 41 59
Aug. 6		
COL	iP	17 13 29
Aug. 6		
COL	eP	17 19 40
SJP	eP'	17 26 52
	e	29 52
Aug. 6		
BCN	eP	19 09 33
Aug. 6		
COL	iP	19 57 26
	i	57 36
	i	58 46
	i	20 01 34
Aug. 6		
GCA	eP	20 40 56
Aug. 6		
COL	e(P)	22 01 04
Aug. 6		
COL	e(P)	22 35 14
Aug. 6		
EUR	eP	23 21 11
FGU	eP	23 20 26
	i	20 38
	e	21 26
HHM	iP	23 20 24
	i	20 34
	iS	21 25
Aug. 6		
COL	e(P)	23 29 20
EUR	eP	23 29 44
Aug. 7		
EUR	eP	01 20 15
FGU	eP	01 19 27
Aug. 7		
FGU	eP	01 40 06
Aug. 7		
EUR	eP	01 58 32
	e	58 53
	i	59 39
Aug. 7		
COL	e(P)	03 44 34
Aug. 7		
COL	iP	04 10 22
	i	10 30
	i	10 42
EUR	iP	04 13 36
	epP	13 52
FGU	eP	04 13 58
	e	14 54
HHM	iP	04 13 08
THU	eP	04 12 17
Aug. 7		
COL	eP	04 35 33
	e	35 56
	iPP	39 30
	eS	46 16
	ePKKP	53 29
EUR	eP'	04 41 05
FGU	eP'	04 41 14
GCA	e(P')	04 40 59
	e	41 15
RCD	eP'	04 41 18
TUC	eP'	04 41 19
Aug. 7		
COL	eP	05 40 03
Aug. 7		
COL	e(P)	06 00 37
Aug. 7		
COL	e(P)	06 06 04
Aug. 7		
COL	e(P)	06 30 47
Aug. 7		
COL	e(P)	08 08 14
Aug. 7		
COL	e(P)	08 13 50
Aug. 7		
COL	e(P)	09 30 38
	e	30 52
Aug. 7		
COL	e(P)	10 56 14
	e	56 36
EUR	iP'	11 01 56
HHM	eP'	11 01 50
SJP	eP'	11 03 53
Aug. 7		
HHM	iP	11 15 22
Aug. 7		
COL	e(P)	11 48 48
	e	49 23
	i	49 50
Aug. 7		
BUT	eP	12 35 40
COL	eP	12 35 46
	ePP	39 41
EUR	eP	12 35 11
	e	35 29
FGU	eP	12 35 34
GCA	eP	12 35 19
RCD	eP	12 36 00
SLC	eP	12 35 28
TUC	iP	12 35 08
	ipP	35 20
	eL	13 01 31
Aug. 7		
COL	e(P)	12 55 40
	e	56 38
Aug. 7		
COL	e(P)	14 41 10
Aug. 7		
FGU	e(P)	15 23 15
	eS	23 40
Aug. 7		
COL	eP'	16 30 55
	ePP	34 23
	e	36 17
	eSKS	37 36
Aug. 7		
COL	e(P)	17 07 25
Aug. 7		
COL	iP	17 11 11
	e	11 18
EUR	eP	17 10 38
	epP	10 48
GCA	eP	17 10 46
Aug. 7		
EUR	eP	23 42 54
GCA	eP	23 44 01
Aug. 8		
EUR	eP	00 01 56
	e	02 40
Aug. 8		
BCN	eP	00 31 34
COL	e(P)	00 32 14
	e	32 48
	e	33 26
FGU	e(P)	00 32 03
GCA	eP	00 32 46
TUC	iP	00 31 36
Aug. 8		
COL	iP	01 46 56
EUR	eP	01 51 56
FGU	eP	01 52 09
HHM	i(P)	01 50 59

Date and Station		Phase (GCT)
		h m s
Aug. 8		
COL	e(P)	02 55 57
Aug. 8		
SJP	e(P)	03 52 28
Aug. 8		
COL	e(P)	04 56 13
Aug. 8		
COL	iP	05 11 50
Aug. 8		
BCN	eP	05 44 46
BOZ	eP	05 44 15
COL	iP	05 40 53
CSC	eP	05 47 17
EUR	iP	05 44 22
	epP	44 34
	i	45 14
	iPcP	45 46
FGU	eP	05 44 47
	ipP	45 01
	ePcP	46 23
GCA	eP	05 45 54
HHM	iP	05 43 51
	iPcP	46 01
	iScP	49 43
RCD	eP	05 45 00
SLC	e(P)	05 44 37
SJP	iP	05 49 13
	ipP	49 25
TUC	iP	05 45 24
	e(PP)	45 37
Aug. 8		
COL	e(P)	05 48 42
	e	49 05
EUR	eP	05 49 58
Aug. 8		
COL	iP	05 55 49
Aug. 8		
BCN	eP	07 31 52
COL	eP	07 31 00
	epP	31 18
EUR	eP	07 31 48
Aug. 8		
BCN	eP	08 00 05
BOZ	eP	08 01 09
COL	e(P)	08 03 06
	e	03 16

Date and Station		Phase (GCT)
		h m s
CSC	eP	08 00 49
FGU	e(P)	08 00 38
GCA	eP	08 01 10
HHM	iP	08 01 23
RCD	eP	08 01 03
SLC	eP	08 00 38
TUC	eP	07 59 40
Aug. 8		
COL	e(P)	08 41 07
	e	41 32
EUR	eP	08 43 38
FGU	e(P)	08 43 54
HHM	eP	08 43 23
Aug. 8		
COL	eP	09 20 31
Aug. 8		
COL	eP	09 29 37
Aug. 8		
COL	e(P)	09 45 29
Aug. 8		
COL	iP	11 11 35
Aug. 8		
BCN	eP	11 45 17
	e	45 46
Aug. 8		
BCN	eP	12 26 15
BOZ	eP	12 25 48
	eS	31 46
BUT	eP	12 25 39
	eS	31 27
COL	iP	12 22 30
	eS	25 50
CSC	iP	12 28 56
	eS	37 30
EUR	iP	12 25 52
	e	26 18
	ePP	27 13
	iPcP	27 36
	eScP	31 40
FGU	eP	12 26 18
	iPP	27 39
	iPcP	28 09
	eS	32 29
GCA	iP	12 26 26
	i	28 22

Date and Station		Phase (GCT)
		h m s
GUA	iP	12 27 27
	ipP	27 40
	eS	34 48
	eL	43 32
HON	iP	12 24 44
	iS	29 49
HHM	iP	12 25 23
	iS	31 04
KIP	iP	12 24 44
RCD	iP	12 26 33
	ipP	26 44
	e	29 17
	e	30 05
SLC	eP	12 26 07
	eScS	33 20
SJP	iP	12 30 54
	ipP	31 09
	isP	31 22
	e	31 54
	ePP	34 13
SIT	eP	12 23 10
	eS	27 20
TUC	iP	12 26 54
	e	27 12
	iPcP	28 27
	eScP	31 48
	eL	37 34
UKI	eP	12 25 14
WAS	iP	12 28 48
	ePP	31 00
	e	32 32
	eS	37 18
	eL	45 26
Aug. 8		
COL	iP	12 53 38
	e	57 21
EUR	e(P)	12 56 58
HHM	i(P)	12 56 28
Aug. 8		
COL	e(P)	13 06 34
Aug. 8		
COL	e(P)	13 21 34
Aug. 8		
BCN	eP	13 45 46
BOZ	eP	13 45 19
COL	eP	13 42 01
	eS	45 42
EUR	eP	13 45 22
FGU	e(P)	13 45 48

Date and Station		Phase (GCT)
		h m s
GCA	eP	13 45 55
HHM	iP	13 44 52
RCD	e(P)	13 46 05
TUC	i(P)	13 46 25
Aug. 8		
COL	e(P)	14 44 40
Aug. 8		
COL	e(P)	15 40 18
Aug. 8		
COL	iP	15 47 32
EUR	iP	15 50 51
HHM	iP	15 50 22
Aug. 8		
COL	e(P)	16 44 00
Aug. 8		
COL	i(P)	16 51 44
EUR	eP	16 52 22
Aug. 8		
THU	e(P)	17 45 38
Aug. 8		
BCN	eP	18 06 32
BOZ	eP	18 08 11
EUR	eP	18 07 16
FGU	eP	18 07 20
GCA	eP	18 06 36
RCD	eP	18 08 00
SLC	eP	18 07 23
TUC	eP	18 05 32
Aug. 8		
COL	eP	19 05 06
	i	05 16
	e	05 37
Aug. 8		
SJP	eP	22 47 54
Aug. 8		
COL	eP	23 49 23
	i	49 30
EUR	eP	23 52 43
HHM	iP	23 52 15
Aug. 8		
BCN	eP	23 57 09

Date and Station		Phase (GCT)
		h m s
BOZ	eP	23 56 41
COL	eP	23 53 25
	eS	56 48
CSC	eP	23 59 49
EUR	eP	23 56 45
FGU	eP	23 57 11
GCA	eP	23 57 19
	ePcP	58 44
HHM	iP	23 56 16
RCD	eP	23 57 27
TUC	iP	23 57 48
Aug. 8		
COL	eP	23 58 56
	e	59 06
Aug. 9		
EUR	eP	00 17 06
Aug. 9		
EUR	eP	00 21 06
Aug. 9		
COL	eP	00 31 03
	ePP	34 07
GCA	eP	00 30 42
TUC	eP	00 30 31
Aug. 9		
COL	i(P)	01 37 35
SJP	eP'	01 49 44
Aug. 9		
FGU	e(P)	02 34 52
Aug. 9		
THU	eP	02 57 10
	e	58 09
Aug. 9		
EUR	eP	02 57 47
Aug. 9		
FGU	e(P)	03 12 11
Aug. 9		
COL	e(P)	03 36 25
EUR	eP	03 36 0
Aug. 9		
COL	eP	04 10 43
	epP	10 54
	e	11 06
EUR	eP	04 13 52

Date and Station		Phase (GCT)
		h m s
RCD	eP	04 14 17
Aug. 9		
COL	e(P)	04 30 18
EUR	eP	04 36 23
Aug. 9		
COL	e(P)	04 33 04
Aug. 9		
SLC	e(P)	04 43 42
Aug. 9		
COL	eP	06 07 11
	e	07 32
EUR	eP	06 07 21
	e	07 30
Aug. 9.		
EUR	eP	06 45 18
Aug. 9		
COL	eP	07 56 30
	e	57 11
	e	57 19
EUR	eP	07 59 43
Aug. 9		
COL	eP	08 04 25
Aug. 9		
COL	e(P)	08 46 11
Aug. 9		
COL	e(P)	08 58 43
Aug. 9		
COL	e(P)	11 50 48
Aug. 9		
COL	e(P)	12 46 00
	e	46 39
Aug. 9		
COL	e(P)	14 12 51
Aug. 9		
BCN	eP	16 15 36
COL	iP	16 15 30
	e	16 16
	ePP	19 03
	eSKS	25 32
	eP'P'	40 21
EUR	iP	16 15 38
	iPP	19 06
	eP'P'	41 08
FGU	eP	16 16 01
	ePKKP	32 46
GCA	eP	16 15 49
GUA	iP	16 10 07

Date and Station		Phase (GCT)
		h m s
HON	eP	16 11 41
	eS	19 16
	eL	26 32
HHM	e(P)	16 15 59
	ePKKP	32 48
	P'P'	41 04
KIP	eP	16 11 41
SLC	e(P)	16 15 53
SJP	iP'	16 21 37
TUC	iP	16 15 44
	ipP	15 59
Aug. 9		
FGU	eP	20 29 01
	e	29 51
Aug. 9		
TUC	iP	22 59 14
Aug. 9		
EUR	eP	23 13 31
Aug. 10		
EUR	eP	00 04 55
Aug. 10		
COL	iP	01 00 22
	iS	01 42
EUR	eP	01 04 55
FGU	e(P)	01 05 14
HHM	iP	01 04 07
Aug. 10		
COL	eP	01 41 50
EUR	eP	01 45 34
HHM	e(P)	01 44 54
Aug. 10		
EUR	eP	01 56 23
Aug. 10		
COL	e(P)	03 55 23
Aug. 10		
COL	e(P)	04 22 29
Aug. 10		
COL	e(P)	04 25 23
Aug. 10		
EUR	eP	05 32 14
Aug. 10		
HHM	eP	05 37 15
Aug. 10		
COL	iP	05 45 19
FGU	e(P)	05 47 44
	e	48 43

Date and Station		Phase (GCT)
		h m s
HHM	iP	05 47 15
Aug. 10		
COL	iP	06 49 19
	e	50 00
	epP	50 45
	e	52 34
EUR	eP	06 48 54
	epP	49 15
FGU	eP	06 49 19
GCA	eP	06 49 05
	epP	50 29
TUC	iP	06 48 55
	epP	50 23
Aug. 10		
COL	eP	07 44 46
FGU	e(P)	07 44 18
GCA	e(P)	07 44 19
Aug. 10		
TUC	eP	08 29 49
Aug. 10		
FGU	e(P)	08 30 23
	eS	31 06
Aug. 10		
BCN	eP	12 15 37
BOZ	eP	12 15 16
BUT	eP	12 15 09
COL	eP	12 12 20
EUR	iP	12 15 21
FGU	eP	12 15 36
GCA	eP	12 15 44
HHM	iP	12 14 55
RCD	eP	12 15 43
SLC	eP	12 15 30
TUC	iP	12 16 03
Aug. 10		
BCN	e(P)	12 16 51
BUT	e(P)	12 16 21
COL	iP	12 13 20
EUR	iP	12 16 35
	i	17 06
FGU	iP	12 16 52

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Date and Station		Phase	(GCT)
			h m s
GCA	e(P)		12 17 00
HHM	iP		12 16 07
RCD	e(P)		12 16 59
SLC	e(P)		12 16 45
SIT	eP		12 14 20
TUC	i(P)		12 17 22
Aug. 10			
COL	eP		12 23 39
Aug. 10			
EUR	eP		16 12 59
Aug. 10			
EUR	e(P)		16 43 38
Aug. 10			
GCA	eP		17 29 55
	eS		30 43
Aug. 10			
COL	eP		17 34 58
EUR	eP		17 35 36
Aug. 10			
COL	eP		19 09 31
EUR	eP		19 13 19
Aug. 10			
FGU	eP		22 26 59
	eS		27 24
GCA	e(P)		22 27 39
Aug. 10			
EUR	e(P)		23 41 46
Aug. 11			
BCN	eP		00 53 09
BOZ	eP		00 52 35
COL	iP		00 48 51
	e		50 31
	e		51 47
FGU	e(P)		00 53 15
GCA	e(P)		00 53 22
HHM	eP		00 52 09
RCD	eP		00 53 12
TUC	iP		00 53 47
Aug. 11			
EUR	eP		03 13 13
	i		13 28
Aug. 11			
COL	e(P)		04 37 11

Date and Station		Phase	(GCT)
			h m s
EUR	eP		04 39 57
	ipP		40 06
HHM	iP		04 39 35
Aug. 11			
COL	eP		06 18 06
EUR	iP		06 20 51
	ipP		21 01
	e		21 40
FGU	eP		06 21 07
GCA	e(P)		06 21 11
GUA	eP		06 13 22
HHM	iP		06 20 30
	ipP		20 39
RCD	eP		06 21 02
Aug. 11			
EUR	eP		06 54 02
FGU	e(P)		06 54 06
GCA	eP		06 53 23
	e		54 40
Aug. 11			
COL	eP		07 00 23
	e		00 40
	e		00 48
	eL		05 28
FGU	eP		07 04 11
	e		04 45
HHM	eP		07 03 20
SJP	eP		07 08 32
Aug. 11			
EUR	e(P)		08 40 18
Aug. 11			
COL	e(P)		09 21 17
EUR	e(P)		09 21 38
Aug. 11			
BCN	eP		10 38 01
COL	eP		10 37 54
EUR	eP		10 38 02
	e		41 40
FGU	eP		10 38 27
GCA	eP		10 38 16
TUC	eP		10 38 09
	i		38 13
Aug. 11			
COL	iP		11 17 18
	epP		17 53

Date and Station		Phase	(GCT)
			h m s
EUR	iP'		11 23 01
	ePP		24 15
FGU	iP'		11 23 09
	ePP		24 16
GCA	eP'		11 23 10
SJP	iP'		11 25 00
TUC	iP'		11 23 15
Aug. 11			
COL	iP		13 04 05
	e		04 09
	e		04 48
EUR	e(P)		13 05 03
Aug. 11			
BHP	iSKS		16 16 19
	iS		18 00
BCN	iP		16 03 01 C
BOZ	eP		16 02 36 C
	eS		11 35
	eP'P'		30 46
BUT	eP		16 02 29 C
	eS		11 21
COL	iP		15 59 28 C
	i		16 01 03
	iPcP		01 30
	iS		05 45
	i		30 54
EUR	iP		06 02 41 C
	i		03 08
	ePP		04 59
	e		05 39
	ePPP		07 05
FGU	iP		16 03 00 C
GCA	eP		16 03 08(C)
	i		04 55
	e		07 17
	eS		12 40
GUA	eT		16 27 44
HON	iP		16 00 40(C)
	iS		08 02
HHM	iP		16 02 15 C
	iPP		04 40
	iS		10 54
	eL		15 22
KIP	iP		16 00 39 D
RCD	iP		16 03 07 C
	ipP		03 19
	iS		12 36
SLC	iP		16 02 52 C
	eS		12 08

Date and Station		Phase	(GCT)
			h m s
SJP	eP'		16 10 56(D)
	e		11 04
	ePP		11 59
	ePPP		13 29
	e		14 39
	eSKS		17 36
	e		19 54
	eSKKS		18 30
	e		26 31
SIT	eP		16 00 28 C
	eS		07 36
THU	iP		16 01 29 D
	i		01 37
	ipP		01 42
	i		02 34
TUC	iP		16 03 30 C
	ePP		06 36
	i(PPP)		08 32
	eS		13 17
	eSS		17 59
	eSSS		21 53
	eL		23 36
TUT	iP		16 03 30 C
UKI	eP		16 02 16 C
	e(S)		11 02
WAS	iP		16 04 31 D
	i		05 25
	e		07 39
	ePP		08 09
	eSKS		14 49
Aug. 11			
SLC	eP		19 14 55
Aug. 11			
COL	e(P)		22 50 34
EUR	eP'		22 55 45
FGU	e(P')		22 56 14
Aug. 11			
COL	iP		23 19 56
EUR	eP		23 22 56
	i		23 15
FGU	e(P)		23 23 24
HHM	iP		23 22 41
Aug. 11			
BCN	eP		23 45 18
BOZ	eP		23 45 53
COL	iP		23 41 44
EUR	iP		23 44 48
	e		45 47
FGU	eP		23 45 17
GCA	eP		23 45 25

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Date and Station	Phase (GCT)
	h m s
HHM eP	23 44 31
RCD eP	23 45 25
THU iP	23 43 46
TUC iP	23 45 47
Aug. 12	
COL eP	00 55 55
EUR iP	00 58 58
Aug. 12	
EUR e(P)	01 53 47
Aug. 12	
EUR e(P)	01 57 45
Aug. 12	
BHP iP	02 59 39
iS	59 48
Aug. 12	
EUR iP	04 58 10
i	58 31
i	58 50
i	05 01 23
GCA eP	04 59 31
UKI eP	04 57 59
Aug. 12	
COL eP	05 43 40
EUR e(P)	05 43 49
Aug. 12	
BCN eP	07 12 55
EUR eP	07 13 31
e	13 56
eS	14 12
e	15 45
GCA eP	07 13 44
eS	14 43
Aug. 12	
COL iP	08 13 19
i	13 37
Aug. 12	
GCA eI	11 36 35
eS	37 02
Aug. 12	
COL e(P)	11 38 06
Aug. 12	
COL eP	12 56 45
Aug. 12	
EUR eP	13 17 12
HHM iP	13 17 40
Aug. 12	
COL eP	13 30 40

Date and Station	Phase (GCT)
Aug. 12	h m s
BCN eP	15 37 35
FGU e(P)	15 37 36
e	37 42
TUC e(P)	15 36 36
i	36 45
Aug. 12	
BCN eP	16 35 12
Aug. 12	
EUR eP	19 00 02
Aug. 12	
GCA iP	19 03 35
Aug. 12	
FGU e(P)	21 40 37
Aug. 12	
COL i(P)	23 07 40
Aug. 12	
COL iP	22 45 51
Aug. 12	
SLC eP	23 44 00
Aug. 13	
EUR eP	01 10 54
i	11 01
Aug. 13	
COL e(P)	02 59 29
EUR iP	02 59 40
Aug. 13	
BCN eP'	03 40 00
EUR iP'	03 39 49
i	39 57
e	40 25
FGU eP'	03 40 06
TUC eP'	03 40 09
Aug. 13	
COL e(P)	04 01 31
EUR iP	04 01 01
Aug. 13	
EUR eP	04 22 28
e	22 41
iL	23 40
Aug. 13	
BOZ e(P)	06 14 25
BUT eP	06 14 20
COL iP	06 12 01
EUR eP	06 14 29
i	14 34
e	14 54
ePP	18 31

Date and Station	Phase (GCT)
	h m s
FGU e(P)	06 14 42
GUA eP	06 06 17
e	06 31
HHM iP	06 14 09
Aug. 13	
SJP eP	07 51 08
e	52 14
Aug. 13	
COL iP	10 23 02
e	23 07
e	23 14
e	23 29
e	24 12
EUR iP	10 26 31
i	26 44
iPcP	28 48
i	31 51
Aug. 13	
COL e(P)	10 37 56
Aug. 13	
EUR eP	11 48 58
Aug. 13	
SJP eP	12 15 55
Aug. 13	
EUR eP'	13 04 19
Aug. 13	
BCN eP	13 31 53
Aug. 13	
COL iP	13 48 05
e	48 27
e	49 18
EUR eP	13 45 46
ipP	46 25
RCD e(P)	13 45 30
SJP iP	13 38 04
i	38 15
iS	39 12
TUC eP	13 45 33
Aug. 13	
EUR eP	13 53 16
Aug. 13	
COL eP	15 58 02
EUR eP	16 01 30
Aug. 13	
EUR eP	17 29 12
Aug. 13	
EUR eP	18 34 03
HHM eP	18 34 31

Date and Station	Phase (GCT)
Aug. 13	h m s
EUR e(P)	19 21 29
Aug. 13	
COL eP	22 11 01
EUR iP	22 10 43
Aug. 13	
COL iP	23 55 35
EUR eP	23 53 51
Aug. 14	
EUR e(P)	02 06 17
HHM eP	02 06 54
SJP eP	02 02 28
Aug. 14	
EUR e(P)	02 57 25
Aug. 14	
COL i(P)	04 43 04
Aug. 14	
EUR e(P)	06 25 20
Aug. 14	
COL iP	06 49 14
EUR e(P)	06 48 51
Aug. 14	
EUR e(P)	07 46 34
Aug. 14	
EUR e(P)	08 15 20
Aug. 14	
EUR e(P)	12 47 27
Aug. 14	
EUR e(P)	13 42 30
Aug. 14	
COL iP	13 48 11
EUR eP	13 52 33
ipP	52 48
iPcP	53 14
iScP	56 37
RCD e(P)	13 53 07
Aug. 14	
BCN eP	19 03 18
BOZ eP	19 03 56
BUT eP	19 03 52
COL iP	19 03 56
e(S)	14 53
FGU eP	19 03 41
HHM eP	19 03 54

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Date and Station		Phase (GCT)
		h m s
KIP	iP	18 59 34
RCD	eP	19 04 13
SLC	eP	19 03 41
TUC	iP	19 03 21
	eL	28 52
UKI	eP	19 03 00
Aug. 14		
FGU	e(P)	20 40 26
	e	41 52
Aug. 14		
EUR	eP	20 59 15
	e	59 47
Aug. 14		
BOZ	e(P)	22 17 33
BUT	eP	22 17 27
COL	iP	22 14 52
	i	15 03
	i	15 24
	e(L)	31 27
FGU	eP	22 17 54
	e	18 04
GCA	e(P)	22 18 10
HHM	eP	22 17 17
RCD	e(P)	22 17 59
Aug. 14		
BCN	eP	23 41 45
BOZ	eP	23 42 16
COL	iP	23 41 25
	eS	52 06
EUR	iP	23 41 48
	i	41 58
	ipP	42 17
	isP	42 38
	ePP	45 28
	ePPP	47 15
	eP'P'	00 07 19
FGU	eP	23 42 12
GCA	eP	23 41 59
	ePKKP	59 23
HON	iP	23 37 53
	eS	45 20
	eL	53 00
HHM	iP	23 42 10
	i	42 26
	ePP	46 06
KIP	eP	23 37 55
SJP	iP'	23 47 46
TUC	eP	23 41 53
	i	41 55
	eL	00 07 10
UKI	eP	23 41 24
Aug. 15		
COL	iP	01 18 54
Aug. 15		
EUR	eP	03 36 43
Aug. 15		
EUR	eP	06 34 23
Aug. 15		
COL	eP	08 44 10
EUR	iP	08 46 23
Aug. 15		
COL	i(P)	10 12 44
Aug. 15		
COL	e(P)	11 06 19
Aug. 15		
COL	e(P)	11 14 28
Aug. 15		
COL	e(P)	11 17 39
Aug. 15		
EUR	iP	12 26 12
Aug. 15		
COL	iP	12 27 55
	i	28 16
	e	29 56
BOZ	e(P)	12 30 36
	e	36 30
BUT	eP	12 30 28
EUR	eP	12 31 10
HHM	e(P)	12 30 02
	eS	34 54
RCD	eL	12 38 43
SIT	eP	12 26 36
	e	26 56
Aug. 15		
COL	iP	15 42 18
	i	42 24
EUR	iP	15 45 49
RCD	e(P)	15 46 15
Aug. 15		
EUR	eP	16 20 04
Aug. 15		
EUR	eP	17 47 20
Aug. 15		
COL	eP	18 03 57
	e	04 29
EUR	eP	18 04 14
Aug. 15		
EUR	eP	18 24 34
	i	25 10
Aug. 15		
BCN	eP	19 16 07
BOZ	eP	19 15 52
BUT	eP	19 15 45
COL	iP	19 13 05
EUR	iP	19 15 53
	ipP	16 03
	i	16 22
	i	16 45
FGU	iP	19 16 11
GCA	eP	19 16 16
GUA	iP	19 08 22
	e	08 44
	eS	12 07
HHM	iP	19 15 33
KIP	eP	19 13 13
RCD	eP	19 16 20
SLC	eP	19 16 05
THU	iP	19 15 01
TUC	eP	19 16 32
	eL	43 09
UKI	eP	19 15 18
Aug. 15		
EUR	eP	19 49 50
Aug. 15		
EUR	eP	19 55 40
Aug. 15		
COL	eP	21 00 24
	e	00 31
	e	00 49
	e	01 31
Aug. 15		
EUR	eP	21 29 55
GCA	eP	21 30 17
Aug. 15		
EUR	eP	21 51 45
FGU	eP	21 51 27
GCA	e(P)	21 52 43
	e	51 28
RCD	e(P)	21 51 56
Aug. 15		
GCA	eP	23 13 39
	e	13 44
Aug. 15		
EUR	eP	23 28 03
Aug. 15		
EUR	eP	23 33 48
FGU	eP	23 38 55
Aug. 16		
EUR	eP	01 03 17
Aug. 16		
COL	iP	01 41 29
EUR	iP	01 45 04
	e	45 15
HHM	eP	01 44 32
Aug. 16		
FGU	e(P)	03 02 19
Aug. 16		
COL	eP	03 47 31
EUR	iP	03 46 55
	epP	47 14
GCA	eP	03 47 02
TUC	eP	03 46 50
	i	47 02
Aug. 16		
FGU	e(P)	04 02 25
Aug. 16		
EUR	eP	04 17 12
GCA	e(P)	04 17 14
Aug. 16		
EUR	eP	04 29 34
FGU	eP	04 29 23
SJP	eP	04 25 50
Aug. 16		
EUR	eP	04 53 34
Aug. 16		
EUR	eP	07 59 06
Aug. 16		
RCD	eP	09 01 41
Aug. 16		
BUT	eP	09 09 31
COL	eP	09 06 52

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Date and Station		Phase (GCT)
		h m s
EUR	eP	09 09 39
FGU	eP	09 09 56
	e	10 53
GCA	eP	09 10 01
HHM	iP	09 09 19
	ipP	09 28
Aug. 16		
COL	e(P)	09 19 38
Aug. 16		
EUR	iP	10 53 07
Aug. 16		
COL	eP	11 24 03
	e	24 12
EUR	eP	11 24 55
Aug. 16		
BHP	iP	12 02 34
	iS	02 44
Aug. 16		
COL	iP	12 34 27
	epP	35 21
Aug. 16		
EUR	eP	13 46 07
Aug. 16		
BCN	eP	14 47 47
EUR	eP	14 46 08
Aug. 16		
EUR	eP	15 51 41
Aug. 16		
COL	iP	16 02 31
	i	02 38
	e	03 38
	epP	03 50
EUR	eP	16 05 20
HHM	iP	16 04 57
	epP	06 17
Aug. 16		
SJP	eP	16 26 09
Aug. 16		
EUR	iP	16 33 13
	e	33 22
	e	34 11
Aug. 16		
EUR	eP	17 57 46
	e	58 23
Aug. 16		
EUR	eP	18 30 07
	e	30 43

Date and Station		Phase (GCT)
Aug. 16		h m s
EUR	eP	19 32 06
Aug. 16		
COL	e(P)	19 34 13
Aug. 16		
EUR	eP	20 39 56
Aug. 16		
BOZ	eP	22 17 01
Aug. 16		
EUR	eP	22 32 53
Aug. 16		
COL	iP	22 34 06
	ipP	34 20
Aug. 16		
GCA	e(P)	22 48 02
Aug. 16		
EUR	eP	22 54 15
Aug. 16		
EUR	eP	23 08 37
	e	09 23
Aug. 16		
EUR	eP	23 37 20
	e	38 20
GCA	e(P)	23 36 45
	e	36 48
	e	37 44
Aug. 16		
EUR	eP	23 49 28
	e	49 34
	e	50 06
	e	50 33
GCA	e(P)	23 49 43
Aug. 17		
EUR	iP	01 17 42
GCA	e(P)	01 17 48
Aug. 17		
COL	iP	01 49 01
Aug. 17		
EUR	eP	03 02 02
Aug. 17		
COL	e(P)	03 47 06
Aug. 17		
EUR	eP	04 49 56
	e	50 20
Aug. 17		
EUR	eP	05 19 22
GCA	eP	05 19 14
TUC	eP	05 18 53

Date and Station		Phase (GCT)
Aug. 17		h m s
COL	e(P)	06 42 46
Aug. 17		
BOZ	eP	06 48 44
EUR	eP	06 48 05
	e	48 20
	e	49 38
	ePP	50 42
	e	51 22
FGU	e(P)	06 48 14
GCA	e(P)	06 47 45
RCD	e(P)	06 47 25
TUC	eP	06 47 22
Aug. 17		
COL	eP	07 00 13
EUR	eP	07 03 04
FGU	eP	07 03 22
HHM	eP	07 02 44
Aug. 17		
COL	i(P)	07 17 52
EUR	e(P)	07 18 13
Aug. 17		
EUR	e(P)	08 49 56
Aug. 17		
COL	eP	09 37 38
	e	39 40
Aug. 17		
COL	iP	11 45 39
EUR	iP	11 48 42
Aug. 17		
EUR	eP	13 07 52
Aug. 17		
SJP	eP	13 24 50
Aug. 17		
SJP	iP	16 01 04
Aug. 17		
BCN	e(P)	17 15 26
EUR	eP	17 16 05
	e	16 16
	iL	17 4
Aug. 17		
EUR	eP	18 00 50
	ipP	01 04
FGU	eP	18 00 37
Aug. 17		
COL	i(P)	19 31 19

Date and Station		Phase (GCT)
		h m s
EUR	iP	19 34 44
HHM	iP	19 34 14
Aug. 17		
COL	iP	19 41 45
EUR	iP	19 45 11
Aug. 17		
BCN	iP'	21 27 18
	eS	36 08
	eSS	40 29
BOZ	eP	21 26 50
	epP	27 27
	eS	35 15
BUT	eP	21 26 43
	eS	34 57
COL	iP	21 23 35
	iPP	25 40
	iScP	29 04
CSC	eP	21 29 04
	epP	29 43
	eS	39 32
EUR	iP	21 26 59
	i	27 03
	ipP	27 35
	i	28 51
	iPP	29 32
	ipPP	30 00
	isPP	30 22
	ePPP	30 59
	ipPPP	31 25
	e	32 21
	eS	35 31
	eScS	36 24
	eP'P'	55 07
	iP'P'	55 35
FGU	iP	21 27 15
	eS	36 04
GCA	ip	21 27 25
	ePP	30 21
	eS	36 20
	eP'P'	55 21
HON	iP	21 25 03
	iS	31 56
HHM	iP	21 26 29
	ipP	27 06
	ePP	29 16
	ePPP	30 44
	iS	34 34
	eScS	36 04
	i	37 18
	eP'P'	55 50
	e	56 29
KIP	iP	21 25 04

Date and Station		Phase (GCT)
		h m s
RCD	iP	21 27 23
	eS	36 19
SLC	eP	21 27 09
	epP	27 46
	eS	35 52
	eScS	36 54
SJP	eP'	21 35 05
SIT	eP	21 24 37
	epP	25 12
	eS	31 12
TUC	iP	21 27 47
	ePcP	27 58
	epP	28 24
	esP	28 41
	ePP	30 28
	i	31 06
	iS	37 05
	eL	45 07
TUT	iP	21 27 48
UKI	eP	21 26 32
	epP	27 08
WAS	iP	21 28 51
	epP	29 31
	e	32 39
	eS	38 57
Aug. 17		
COL	e(P)	21 53 46
Aug. 17		
EUR	eP	22 03 58
FGU	e(P)	22 04 03
Aug. 17		
EUR	eP	22 58 22
Aug. 17		
GCA	eP	23 27 17
	e	27 37
Aug. 18		
EUR	eP	00 19 53
Aug. 18		
EUR	eP	00 39 48
	i	40 45
Aug. 18		
EUR	eP	01 31 47
UKI	eP	01 31 05
Aug. 18		
SIT	eP	02 52 06
Aug. 18		
COL	e(P)	03 25 11
Aug. 18		
COL	iP	05 39 09
	i	39 26
EUR	iP	05 41 41

Date and Station		Phase (GCT)
		h m s
HHM	eP	05 41 21
Aug. 18		
EUR	eP	10 25 29
Aug. 18		
COL	eP	10 29 17
EUR	eP	10 30 05
	i	30 34
Aug. 18		
BCN	eP	11 15 08
	e(PP)	20 33
COL	iP	11 13 43
	ipP	15 37
	esP	16 13
EUR	iP	11 13 20
	ipP	15 13
	e(sP)	16 08
	ePP	16 51
FGU	eP	11 13 53
	e	14 22
	e	15 33
GCA	eP	11 13 28
	epP	15 21
HHM	epP	11 15 41
TUC	eP	11 13 19
	ipP	15 12
	i	15 16
TUT	eP	11 13 20
	epP	15 12
Aug. 18		
EUR	eL	11 37 18
GCA	e(P)	11 34 37
	e(S)	36 20
TUC	eP	11 33 31
	i	33 34
	e(S)	34 12
	eL	34 20
Aug. 18		
EUR	eP	13 00 05
Aug. 18		
COL	iP	13 03 49
Aug. 18		
EUR	eP	14 34 59
Aug. 18		
COL	eP	14 59 26
EUR	eP	15 02 43
Aug. 18		
HHM	i(P)	15 26 38
Aug. 18		
BCN	eP	15 50 11

Date and Station		Phase (GCT)
		h m s
EUR	eP	15 51 08
Aug. 18		
BCN	eP	17 47 46
EUR	iP	17 47 47
FGU	iP	17 48 15
GCA	eP	17 47 18
TUT	e(P)	17 48 41
Aug. 18		
EUR	eP	18 15 53
Aug. 18		
EUR	eP	19 14 03
FGU	iP	19 13 47
	e	14 12
Aug. 18		
EUR	eP	20 25 27
Aug. 18		
EUR	eP	21 32 52
Aug. 18		
EUR	eP	21 46 01
Aug. 18		
BOZ	eP	21 54 16
Aug. 18		
EUR	eP	22 50 05
Aug. 18		
BOZ	eP	22 55 36
Aug. 18		
EUR	eP	23 22 29
Aug. 18		
EUR	eP	23 34 11
Aug. 19		
EUR	eP	00 29 02
Aug. 19		
COL	eP	01 25 24
EUR	eP	01 25 35
Aug. 19		
BCN	eP	02 54 42
COL	iP	02 50 55
	i	51 40
	i	53 21
EUR	iP	02 54 10
	ipP	54 22
	esP	54 32
	e	55 35

Date and Station		Phase (GCT)
		h m s
FGU	eP	02 54 27
	epP	54 39
GCA	eP	02 54 31
	e	54 52
SLC	eP	02 54 31
TUC	eP	02 54 56
	ipP	55 09
TUT	eP	02 54 57
	epP	55 09
Aug. 19		
EUR	iP	03 14 52
	e	16 32
SJP	iP	03 10 12
Aug. 19		
EUR	eP	03 47 33
Aug. 19		
EUR	iP	04 58 10
	i	58 46
	e(S)	59 22
HHM	e(P)	04 58 04
	eL	05 00 06
Aug. 19		
BHP	iP	05 14 00
	iS	17 19
BCN	eP	05 18 17 D
BOZ	eP	05 19 44 D
	epP	21 45
	eS	27 45
	e	29 21
BUT	iP	05 19 45 D
	eS	27 53
COL	iP	05 22 05 D
	eS	31 29
CSC	iP	05 17 18 D
	eS	23 13
	e	25 05
EUR	iP	05 19 35 C
	iPcP	19 53
	ipP	21 29
	ePP	22 04
	epPP	24 31
	eS	27 09
FGU	iP	05 19 17
	iPcP	19 37
	ipP	21 18
	iS	26 58
	i	28 57
	i	29 56
	i	34 47

Date and Station		Phase (GCT)
		h m s
GCA	iP	05 19 08(D)
	i	19 13
	ipP	21 13
	eS	26 42
	i	29 45
	i	32 08
GUA	eP'	05 28 18 D
	epP'	30 41
	e	35 57
HON	iP	05 21 53 D
	ipP	24 04
	iS	31 27
HHM	iP	05 20 04 D
	ipP	22 09
	iScP	24 00
	iS	28 32
KIP	iP	05 21 53(D)
	ipP	24 06
	i	29 41
	iS	31 50
RCD	iP	05 19 14 D
	ipP	21 12
	iS	27 04
SLC	iP	05 19 25 D
	eS	27 04
SJP	iP	05 15 06 D
	ipP	16 35
	iPcP	17 54
	iS	19 16
	iScP	20 33
	iScS	24 32
SIT	eP	05 21 26 D
	eS	30 48
	eSP	32 12
TUC	iP	05 18 43 D
	ipP	20 41
	ePP	22 18
	iS	25 51
TUT	iP	05 18 43 D
UKI	eP	05 20 02 D
	epP	22 06
	eS	28 24
WAS	iP	05 17 48 C
	iPcP	18 17
	ipP	19 39
	iS	23 44
	isS	28 23
	i	40 11
Aug. 19		
SJP	eP	05 46 55
Aug. 19		
BOZ	eP	05 45 34 C
BUT	eP	05 45 28 C
COL	iP	05 42 43(C)
EUR	iP	05 45 45 C

Date and Station		Phase (GCT)
		h m s
FGU	iP	05 45 55 C
	i	48 00
	eS	55 38
	e	57 56
GCA	eP	05 46 00(D)
	e	48 15
	eS	55 45
	e	58 06
GUA	eP	05 38 19 C
HON	e(P)	05 43 28
	eS	51 32
HHM	eP	05 45 17 C
	e	47 56
KIP	iP	05 43 28 C
RCD	iP	05 46 02 C
	eS	55 40
SLC	eP	05 45 48 C
SJP	eP'	05 52 27 D
	ePP	53 57
SIT	eP	05 43 38 C
	eS	51 52
TUC	iP	05 46 20 C
TUT	iP	05 46 21 C
UKI	eP	05 45 17 C
	e	48 00
WAS	i(P)	05 48 19
Aug. 19		
COL	e(P)	05 57 28
Aug. 19		
EUR	iP	06 23 29
HHM	e(P)	06 24 31
UKI	eP	06 22 19
Aug. 19		
EUR	eP	06 38 22
Aug. 19		
COL	eP'	07 28 40
Aug. 19		
COL	eP	08 16 29
	e	17 42
EUR	iP	08 19 26
HHM	iP	08 19 02
Aug. 19		
EUR	eP	09 14 45
	i	15 27
Aug. 19		
EUR	eP	09 53 04

Date and Station		Phase (GCT)
		h m s
Aug. 19		
EUR	eP	11 11 22
Aug. 19		
COL	iP	12 52 53
	ipP	53 04
EUR	iP	12 56 09
	epP	56 21
Aug. 19		
EUR	eP	13 27 39
Aug. 19		
COL	iP	13 33 33
Aug. 19		
EUR	eP	13 35 17
FGU	e(P)	13 36 22
Aug. 19		
COL	i(P)	14 30 42
FGU	eP	14 30 44
Aug. 19		
BHP	iP	14 55 42
	iS	58 29
BCN	iP	15 01 35
BOZ	eP	15 00 33
BUT	iP	15 00 42
	eS	07 17
COL	iP	15 03 26
	ipP	03 53
CSC	eP	14 56 48
	eS	15 00 10
EUR	iP	15 00 35
	i	00 49
FGU	iP	14 59 49
GCA	eP	15 00 14
RCD	eP	14 59 46
SLC	eP	15 00 24
SJP	iP	14 53 10
	iS	53 39
TUC	eP	14 59 59
TUT	eP	15 00 00
UKI	eP	15 01 28
WAS	iP	14 57 16
	iS	15 01 15
Aug. 19		
FGU	e(P)	15 09 57
Aug. 19		
BCN	iP	16 10 58
	epP	12 54

Date and Station		Phase (GCT)
		h m s
COL	iP	16 13 45
	ipP	15 51
EUR	iP	16 11 15
	iPcP	11 29
	ipP	13 06
	iPP	13 44
FGU	iP	16 10 57
	i	11 47
	ipP	12 51
GCA	iP	16 10 48
	epP	12 43
HHM	iP	16 11 44
	ipP	13 41
RCD	eP	16 10 54
	epP	12 48
SLC	eP	16 11 05
SJP	eP	16 08 17
	e	08 37
	e	09 38
TUC	iP	16 10 23
	ipP	12 16
TUT	iP	16 10 24
	i	11 08
	ipP	12 16
Aug. 19		
EUR	eP	16 39 45
Aug. 19		
BOZ	eP	17 02 16
BUT	iP	17 02 29
EUR	iP	17 03 40
	i	04 02
	i	04 11
	iL	05 05
FGU	iP	17 03 12
	i	03 55
	iL	04 14
HHM	i(P)	17 03 03
RCD	e(P)	17 04 09
SLC	eP	17 03 10
Aug. 19		
CSC	e(P)	17 37 20
	e	37 40
Aug. 19		
EUR	eP	18 01 25
	e	01 58
Aug. 19		
EUR	eP	19 10 52

Date and Station		Phase (GCT) h m s
FGU	eP	19 10 27
	e	11 26
Aug. 19		
EUR	eP	20 14 05
Aug. 19		
BCN	eP'	20 45 36
	ePP	48 57
EUR	eP'	20 45 27
	i	45 39
	e	47 34
	ePP	48 38
FGU	eP'	20 45 29
HHM	e(P')	20 45 14
RCD	e(P')	20 45 30
TUC	ePP	20 49 12
Aug. 19		
COL	iP	21 34 26
	ePcP	34 33
	epP	35 19
Aug. 19		
COL	i(P)	21 59 28
EUR	iP	21 59 41
Aug. 20		
FGU	eP	00 16 17
	e	16 51
HHM	i(P)	00 17 37
SJP	e(P)	00 12 40
Aug. 20		
FGU	eP	00 33 38
GCA	e(P)	00 33 38
TUC	eP	00 33 06
TUT	eP	00 33 06
Aug. 20		
HON	i(P)	00 47 18
Aug. 20		
EUR	iP	01 40 28
	e	40 45
Aug. 20		
COL	e(P)	01 43 15
Aug. 20		
EUR	iP	02 03 29
	e	03 38
	e	05 26
Aug. 20		
COL	iP	02 39 15
	i	39 36
GCA	e(P)	02 38 51

Date and Station		Phase (GCT) h m s
Aug. 20		
COL	iP	02 56 20
Aug. 20		
BCN	eP	03 00 35
Aug. 20		
EUR	eP	03 33 33
Aug. 20		
EUR	eP	03 35 38
Aug. 20		
BCN	iP	04 29 47
FGU	eP	04 31 16
	eL	34 17
GCA	iP	04 30 17
	i	30 44
	iL	32 01
TUC	eP	04 29 50
	i	30 10
	eS	30 56
	eL	31 02
TUT	eP	04 29 51
	iL	31 19
Aug. 20		
BCN	iP	05 15 33
BOZ	eP	05 16 07
BUT	eP	05 16 03
	e(S)	25 43
COL	iP	05 15 55
	epP	17 59
	eS	25 23
FGU	iP	05 16 02
	epP	18 06
	e	19 33
GCA	iP	05 15 46
	ipP	17 48
	eS	25 14
GUA	eP	05 12 06
HON	iP	05 11 34
	i	14 18
	iS	17 31
HHM	iP	05 16 04
	iS	25 41
KIP	iP	05 11 35
RCD	eP	05 16 26
	ePP	20 15
SLC	eP	05 15 54
TUC	iP	05 15 39
	ipP	17 40
	iPP	18 36
	eS	25 11
	ePKKP	34 07
	eP'P'	42 14
	iSKPP'	44 48

Date and Station		Phase (GCT) h m s
TUT	iP	05 15 39
UKI	eP	05 15 14
	epP	17 14
Aug. 20		
FGU	eP	05 36 59
Aug. 20		
COL	e(P)	06 32 12
FGU	eP	06 35 12
Aug. 20		
COL	iP	07 57 44
Aug. 20		
EUR	iP	08 03 40
Aug. 20		
FGU	iP	09 19 47
GCA	eP	09 19 33
	e	19 59
RCD	eP	09 19 39
SJP	iP	09 15 32
TUC	iP	09 19 08
Aug. 20		
COL	iP	10 32 13
	ipP	32 35
Aug. 20		
GUA	eP	10 47 53
Aug. 20		
EUR	iP	11 28 13
	i	30 19
Aug. 20		
HHM	iP	13 01 38
Aug. 20		
TUT	e(P)	15 20 20
Aug. 20		
HHM	iP	16 12 12
Aug. 20		
HHM	iP	18 08 28
Aug. 21		
EUR	iP	01 40 29
FGU	eP	01 40 15
RCD	eP	01 40 13
TUC	iP	01 39 41
TUT	eP	01 39 41
Aug. 21		
FGU	e(P)	02 00 03
	e	00 58

Date and Station		Phase (GCT) h m s
Aug. 21		
COL	eP	02 18 50
EUR	eP	02 18 29
	epP	20 26
FGU	eP	02 18 52
GCA	iP	02 18 37
SLC	eP	02 18 44
TUC	eP	02 18 28
TUT	iP	02 18 29
Aug. 21		
COL	iP	07 11 47
	epP	12 15
Aug. 21		
BCN	eP	08 02 58
BOZ	eP	08 04 31
EUR	iP	08 03 39
FGU	eP	08 03 43
	e	04 32
GCA	eP	08 03 03
SLC	eP	08 03 43
TUT	eP	08 02 01
	eS	07 25
Aug. 21		
COL	eP	11 24 52
EUR	eP	11 28 13
	ePcP	30 19
HHM	iP	11 27 43
	iPcP	30 09
TUC	iP	11 29 15
TUT	e(P)	11 29 15
Aug. 21		
RCD	eP	16 12 38
Aug. 21		
BCN	eP	16 18 48
BOZ	eP	16 19 29
BUT	eP	16 19 24
	eS	29 46
COL	iP	16 19 26
EUR	iP	16 18 54
	ipP	19 14
	ePP	21 45
FGU	eP	16 19 21
	ipP	19 40
	ePP	22 17
GCA	iP	16 19 04

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Date and Station		Phase (GCT)
		h m s
RCD	eP	16 19 48
SLC	eP	16 19 12
TUC	iP	16 18 54
	ipP	19 12
TUT	iP	16 18 54
	ipP	19 13
UKI	eP	16 18 14
Aug. 21		
BCN	eP	17 12 34
BOZ	eP	17 12 09
BUT	eP	17 12 02
COL	iP	17 09 06
	i	09 38
EUR	iP	17 12 17
	i	12 23
FGU	eP	17 12 32
GCA	eP	17 12 39
TUT	eP	17 13 01
Aug. 21		
EUR	eP	18 42 52
Aug. 21		
BCN	eP	18 49 40
EUR	iP	18 48 52
	i	49 16
	i	50 34
	i	51 00
	e	51 21
GCA	eP	18 50 10
	e	51 14
SLC	eP	18 51 05
Aug. 21		
FGU	e(P)	19 06 29
	e	06 39
Aug. 21		
SJP	iP	19 41 23
	eS	41 42
EUR	eP	19 49 29
Aug. 21		
GCA	e(P)	23 54 39
Aug. 22		
BCN	eP	00 04 26
Aug. 22		
BHP	iP	00 08 50
	iS	09 37
BCN	eP	00 15 45

Date and Station		Phase (GCT)
		h m s
COL	iP	00 20 21
GCA	eP	00 15 33
TUT	e(P)	00 15 04
Aug. 22		
BCN	eP	01 31 32
EUR	eP	01 31 12
	iL	31 38
FGU	eP	01 30 59
	e	31 34
GCA	eP	01 32 30
	eL	33 43
Aug. 22		
GCA	eP	01 40 03
Aug. 22		
EUR	eP	03 17 03
Aug. 22		
COL	iP	06 20 06
	i	20 11
	i	20 22
	i	20 35
EUR	iP	06 23 21
	ipP	23 35
Aug. 22		
EUR	iP	07 28 06
Aug. 22		
EUR	eP	08 17 29
Aug. 22		
COL	i(P)	09 07 43
Aug. 22		
COL	iP	09 12 00
	i	12 23
EUR	iP	09 12 20
	ipP	12 36
	e	12 54
	e	14 03
	ePKKP	30 00
TUC	e(P)	09 12 43
Aug. 22		
EUR	iP	09 27 09
Aug. 22		
GCA	eP	11 28 45
Aug. 22		
EUR	eP	16 15 29
Aug. 22		
COL	iP	22 25 53
	i	26 27
EUR	iP	22 29 24
	i	29 59
	i	30 21
	iScP	34 54

Date and Station		Phase (GCT)
		h m s
FGU	eP	22 29 47
Aug. 22		
EUR	e(P)	22 40 51
Aug. 22		
BCN	eP	23 20 23
EUR	eP	23 21 10
	iL	22 54
FGU	eP	23 21 49
	eL	24 29
GCA	iP	23 20 56
	iS	22 26
SLC	eL	23 23 42
TUC	eP	23 20 43
	i	21 01
	iS	21 59
	eL	22 06
Aug. 22		
BCN	eP	23 33 27
Aug. 23		
BCN	eP	00 23 08
EUR	eP	00 24 50
	eS	26 34
FGU	e(P)	00 25 33
GCA	eP	00 23 33
	i	23 57
	eS	25 02
	e	26 01
TUC	eP	00 23 40
	i	23 58
	eL	24 47
Aug. 23		
BCN	iP	01 01 37
BOZ	e(P)	01 04 22
	eL	07 49
EUR	eP	01 02 27
	eS	04 09
FGU	eP	01 03 05
	e	03 31
GCA	iP	01 02 11
	i	02 34
	iS	03 44
SLC	eP	01 02 56
TUC	eP	01 01 57
	i	02 16
	iS	02 56
	eL	03 09
Aug. 23		
EUR	eP	02 12 51

Date and Station		Phase (GCT)
		h m s
Aug. 23		
CSC	eP	02 15 22
	e	15 42
WAS	eP	02 17 39
	e	20 09
	e	25 41
Aug. 23		
EUR	iP	02 21 40
Aug. 23		
BOZ	eP	04 26 06
BUT	eP	04 26 03
COL	iP	04 24 06
	i	24 44
	i	25 30
EUR	eP	04 26 34
	ePP	30 36
	e	34 10
	ePKKP	42 29
FGU	eP	04 26 26
GCA	e(P)	04 30 08
	e	30 15
RCD	eP	04 26 11
Aug. 23		
TUT	eP	05 04 17
	i	04 30
Aug. 23		
COL	e(P)	05 11 24
EUR	iP	05 14 22
Aug. 23		
EUR	eP	08 47 25
Aug. 23		
EUR	eP	09 20 31
Aug. 23		
EUR	eP	11 12 12
Aug. 23		
EUR	eP	12 52 06
	i	53 45
Aug. 23		
EUR	eP	14 14 51
Aug. 23		
COL	e(P)	14 50 17
Aug. 23		
BCN	eP	17 02 44
EUR	eP	17 01 57
GCA	eP	17 02 52
UKI	eP	17 00 43

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Date and Station	Phase	Phase (GCT) h m s
Aug. 23		
EUR	eP	21 58 10
Aug. 23		
EUR	eP	22 38 06
Aug. 23		
EUR	eP	23 03 05
Aug. 24		
EUR	eP	02 49 21
Aug. 24		
EUR	iP	03 38 53
Aug. 24		
EUR	eP	04 21 55
SJP	eP	04 15 52
Aug. 24		
BCN	eP	05 03 47
COL	iP	05 00 15
	i	00 37
EUR	iP	05 03 32
	ipP	03 44
FGU	eP	05 03 48
GCA	eP	05 03 56
RCD	eP	05 04 07
TUC	eP	05 04 18
	ipP	04 30
Aug. 24		
EUR	eP	07 41 10
Aug. 24		
TUC	eP	08 56 58
Aug. 24		
COL	e(P)	09 23 58
	epP	24 25
EUR	eP	09 24 16
Aug. 24		
COL	iP	09 59 13
	e	59 19
	e	59 29
EUR	iP	10 02 29
GCA	eP	10 02 51
HHM	iP	10 02 01
Aug. 24		
COL	e(P)	13 48 15
EUR	iP	13 50 28
Aug. 24		
EUR	iP	14 50 28
Aug. 24		
EUR	eP	17 01 40

Date and Station	Phase	Phase (GCT) h m s
Aug. 24		
EUR	eP	17 15 03
FGU	eP	17 14 49
	eS	15 25
Aug. 24		
COL	eP	17 38 00
EUR	eP	17 39 05
GUA	eP	17 29 10
	i	29 30
Aug. 24		
GUA	eP	20 51 45
	eS	51 10
Aug. 24		
EUR	eP	21 11 08
	e	11 25
	e	11 39
GCA	e P	21 11 21
FGU	e(P)	21 13 24
	e	13 59
Aug. 24		
EUR	iP	22 12 57
Aug. 24		
BCN	eP	22 52 20
BOZ	eP	22 51 56
COL	iP	22 48 47
EUR	iP	22 52 03
	ipP	52 15
	e	52 36
	e	53 09
	ePP	54 43
FGU	eP	22 52 20
	ipP	52 32
GCA	eP	22 52 28
	epP	52 40
RCD	eP	22 52 26
TUC	iP	22 52 50
	ipP	53 02
TUT	eP	22 52 50
Aug. 24		
BCN	eP	23 18 49
Aug. 24		
EUR	eP	23 39 11
Aug. 24		
EUR	eP	23 56 27
	i	56 43
	e	57 32
	i	57 39
Aug. 25		
FGU	e(P)	00 00 07

Date and Station	Phase	Phase (GCT) h m s
Aug. 25		
COL	iP	00 50 29
CSC	e(P)	00 51 46
EUR	eP	00 53 08
FGU	e(P)	00 52 51
TUC	eP	00 51 58
TUT	eP	00 51 57
Aug. 25		
FGU	e(P)	03 14 49
	eS	15 10
Aug. 25		
BCN	eP	05 48 28
BOZ	eP	05 49 04
BUT	eP	05 49 12
CSC	eP	05 46 26
EUR	iP	05 48 51
	i	49 02
	e	49 52
FGU	eP	05 48 41
GCA	eP	05 48 15
RCD	e(P)	05 48 29
SLC	eP	05 48 58
TUC	eP	05 47 45
TUT	eP	05 47 45
Aug. 25		
COL	iP	06 03 51
EUR	eP	06 05 06
Aug. 25		
COL	iP	06 32 06
EUR	iP	06 31 48
GCA	eP	06 31 57
TUC	iP	06 31 50
TUT	eP	06 31 50
Aug. 25		
BCN	eP	07 06 37
BOZ	eP	07 06 06
BUT	eP	07 05 54
COL	eP	07 02 37
	eS	05 40
EUR	iP	07 06 11
	i	06 22
	i	06 30
	ePP	07 19
	e	08 19
	ePcP	08 48

Date and Station	Phase	Phase (GCT) h m s
FGU	eP	07 06 37
	e	06 57
	ePcP	08 58
GCA	iP	07 06 48
	e	08 11
RCD	eP	07 06 53
SLC	eP	07 06 16
SJP	eP	07 11 31
TUC	e(P)	07 07 19
TUT	eP	07 07 19
Aug. 25		
FGU	eP	07 32 12
Aug. 25		
EUR	eP	07 56 02
Aug. 25		
EUR	eP	09 16 29
Aug. 25		
EUR	eP	09 28 46
Aug. 25		
EUR	eP	10 34 06
Aug. 25		
EUR	eP	10 38 56
Aug. 25		
EUR	eP	10 59 05
Aug. 25		
EUR	iP	14 05 30
Aug. 25		
EUR	eP	14 58 49
Aug. 25		
FGU	eP	15 33 31
	eS	34 25
Aug. 25		
FGU	e(P)	16 53 50
Aug. 25		
EUR	iP	18 52 58
HON	iP	18 46 20
	eS	46 36
KIP	iP	18 46 18
Aug. 25		
BCN	eP	19 52 48
GCA	e(P)	19 53 29
Aug. 25		
EUR	eP	20 36 38

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

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Date and Station		Phase (GCT)
		h m s
Aug. 27		
EUR	eP	12 16 10
	e	17 01
HHM	iP	12 17 12
RCD	e(P)	12 16 36
Aug. 27		
TUC	iP	14 21 21
	iS	21 39
	iL	21 41
Aug. 27		
BCN	eP	15 38 27
BOZ	eP	15 39 30
COL	eP	15 41 33
EUR	iP	15 38 51
GCA	eP	15 38 33
RCD	eP	15 39 23
TUC	eP	15 38 01
TUT	eP	15 38 01
Aug. 27		
BCN	eP	16 17 55
Aug. 27		
BOZ	eP	16 32 28
	eS	40 49
BUT	eP	16 32 21
	eS	40 36
COL	eP	16 29 07
	iS	34 42
EUR	iP	16 32 33
	ipP	32 45
	isP	32 53
	i	33 01
	ePP	35 06
FGU	eP	16 32 52
GCA	eP	16 33 01
HON	iS	16 37 28
	eL	43 16
	e	52 50
KIP	iP	16 30 36
RCD	eP	16 33 01
SLC	eP	16 32 41
SIT	eP	16 30 08
TUC	eP	16 33 25
	i	33 27
	e	40 17
	eL	50 25
TUT	e(P)	16 33 25

Date and Station		Phase (GCT)
		h m s
WAS	iP	16 34 36
	i	35 28
Aug. 27		
BCN	eP	17 00 28
BOZ	eP	17 00 24
	eS	10 53
BUT	eP	17 00 18
	eS	10 33
COL	iP	16 58 15
	iS	17 06 44
EUR	iP	17 00 17
	ipP	00 32
	i	00 47
	ePP	03 48
FGU	eP	17 00 37
	ePP	04 22
GCA	eP	17 00 38
GUA	iP	16 49 01
	eS	49 45
HON	iP	16 56 55
	eS	17 02 26
	eL	11 28
HHM	iP	17 00 10
KIP	iP	16 56 54
RCD	eP	17 00 51
SLC	eP	17 00 31
SJP	ePP	17 10 19
SIT	eP	16 58 48
TUC	eP	17 00 50
	ePP	04 23
	e	04 41
	eS	11 48
	eL	29 20
TUT	eP	17 00 50
WAS	iP'	17 07 20
Aug. 27		
COL	iP	17 14 39
Aug. 27		
GCA	eP	17 17 23
	eS	18 16
Aug. 27		
FGU	e(P)	17 20 37
Aug. 27		
BUT	eP	17 35 45
COL	eP	17 33 47
	e	37 48

Date and Station		Phase (GCT)
		h m s
EUR	eP	17 35 45
FGU	eP	17 36 04
GCA	e(P)	17 36 05
HHM	eP	17 35 37
RCD	e(P)	17 36 22
Aug. 27		
BUT	eP	18 10 27
EUR	eP	18 10 27
	ipP	10 41
FGU	eP	18 10 47
GCA	e(P)	18 10 47
RCD	eP	18 10 59
Aug. 27		
COL	iP	19 57 42
	i	57 50
EUR	eP	20 01 08
Aug. 27		
BCN	eP	21 07 02
BOZ	eP	21 06 33
BUT	eP	21 06 27
COL	iP	21 03 15
EUR	eP	21 06 43
	e	07 23
FGU	eP	21 07 00
GCA	eP	21 07 09
RCD	eP	21 07 09
TUC	eP	21 07 33
Aug. 27		
COL	iP	21 06 40
EUR	e(P)	21 10 08
Aug. 27		
FGU	eP	21 24 26
HHM	iP	21 23 55
Aug. 27		
BOZ	eP	22 21 41
BUT	eP	22 21 27
COL	iP	22 20 51
	i	20 55
FGU	eP	22 21 45
GUA	iP	21 12 49

Date and Station		Phase (GCT)
		h m s
HHM	iP	22 21 36
RCD	eP	22 21 29
SJP	e(P)	22 21 01
Aug. 27		
EUR	iP	22 35 15
FGU	eP	22 35 35
Aug. 28		
COL	iP	01 58 09
FGU	eP	02 01 04
GUA	eP	01 52 34
HHM	iP	02 00 30
Aug. 28		
EUR	eP	02 50 31
GCA	e(P)	02 49 10
Aug. 28		
EUR	eP	03 29 06
FGU	eP	03 29 05
Aug. 28		
GCA	e(P)	03 50 38
Aug. 28		
BHP	iP	06 33 40
BCN	eP	06 38 52
	epP	39 37
BOZ	eP	06 39 22
BUT	eP	06 39 27
	epP	40 13
COL	iP	06 41 40
	i	41 50
	iPP	45 42
EUR	iP	06 39 10
	iPcP	39 27
	ipP	39 55
	isP	40 09
	e	43 14
	e	44 00
FGU	eP	06 38 54
	epP	40 37
	e	41 21
	eS	47 30
GCA	eP	06 38 45
GUA	eP'	06 47 42
HHM	iP	06 39 41
RCD	iP	06 38 52
	eS	47 27

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Date and Station		Phase (GCT) h m s
SLC	eP	06 39 02
SJP	iP	06 34 45
	iPP	36 12
	e(S)	39 52
TUC	eP	06 38 19
TUT	eP	06 38 18
Aug. 28		
BHP	iP	07 00 42
	iS	00 55
Aug. 28		
EUR	eP	07 07 15
Aug. 28		
TUC	eP	07 10 48
Aug. 28		
BCN	eP	07 53 04
	epP	55 20
COL	iP	07 52 49
	i	53 28
EUR	iP	07 53 05
	ipP	55 21
	i	55 40
	i	56 42
	iPKKP	08 10 57
	i	11 45
	i	11 54
	eP'P'	18 58
	eSKPP'	21 27
FGU	eP	07 53 28
	epP	55 45
	ePKKP	10 32
GCA	eP	07 53 17
	epP	55 33
GUA	eP	07 47 36
	epP	49 19
HHM	eP	07 53 24
	ipP	55 40
	ePKKP	08 10 32
SJP	iP'	07 59 18
TUC	eP	07 53 15
	epP	55 31
TUT	eP	07 53 14
	epP	55 31
Aug. 28		
COL	eP	08 08 13
Aug. 28		
BCN	eP	09 20 03
COL	iP	09 16 06
	i	16 17
	i	16 25
EUR	iP	09 19 58
GCA	eP	09 20 27

Date and Station		Phase (GCT) h m s
HHM	iP	09 19 20
RCD	eP	09 20 21
TUC	eP	09 20 53
Aug. 28		
BCN	eP	09 55 34
BOZ	eP	09 56 09
BUT	eP	09 56 05
COL	iP	09 55 59
	ipP	57 57
	e	10 03 26
EUR	iP	09 55 38
	iPcP	55 48
	i	56 07
	i	56 27
	i	57 52
	i	10 01 12
	iPKKP	14 05
FGU	eP	09 56 02
	epP	58 03
GCA	iP	09 55 48
	epP	57 45
GUA	eP	09 52 11
HON	iP	09 51 38
HHM	iP	09 56 06
KIP	iP	09 51 39
RCD	eP	09 56 28
SLC	eP	09 55 56
TUC	iP	09 55 40
	ePKKP	10 14 06
TUT	iP	09 55 41
	epP	57 38
Aug. 28		
FGU	eP	10 20 13
Aug. 28		
FGU	e(P)	10 27 39
TUC	eP	10 26 49
Aug. 28		
BCN	eP	12 24 33
COL	iP	12 20 46
	ipP	20 57
	i	21 06
	i	21 15
	i	21 26
EUR	eP	12 24 10
FGU	e(P)	12 24 31

Date and Station		Phase (GCT) h m s
HHM	e(P)	12 23 46
RCD	e(P)	12 24 40
TUC	eP	12 25 04
Aug. 28		
COL	iP	13 15 01
	ipP	15 12
	i	15 15
	i	15 19
EUR	eP	13 18 28
Aug. 28		
EUR	eP'	15 24 52
Aug. 28		
SJP	eP	17 03 47
Aug. 28		
COL	iP	18 08 55
	i	09 07
	i	09 21
EUR	eP	18 12 22
	ipP	12 33
RCD	eP	18 12 59
Aug. 28		
EUR	eP	19 11 57
Aug. 28		
BCN	eP	20 35 59
BOZ	eP	20 37 01
BUT	eP	20 37 05
COL	iP	20 39 05
CSC	eP	20 36 36
EUR	iP	20 36 22
	ePP	38 49
FGU	eP	20 36 30
GCA	eP	20 36 06
HHM	iP	21 38 30
RCD	eP	20 36 55
SLC	eP	20 36 30
TUC	iP	20 35 35
	i(S)	43 24
	eL	52 31
TUT	eP	20 35 33
Aug. 28		
BHP	iP	21 32 22
BCN	eP	21 37 36
BOZ	eP	21 38 10

Date and Station		Phase (GCT) h m s
BUT	eP	21 38 15
COL	iP	21 40 33
	ipP	40 59
	e	41 07
	isP	41 15
CSC	eP	21 35 50
EUR	iP	21 37 56
	ipP	38 21
	i	38 35
FGU	iP	21 37 40
GCA	eP	21 37 29
RCD	eP	21 37 40
SLC	eP	21 37 48
SJP	iP	21 33 45
TUC	iP	21 37 00
TUT	eP	21 37 02
	ipP	37 27
Aug. 28		
FGU	e(P)	22 06 12
Aug. 29		
TUC	eP	01 34 35
	e	35 54
Aug. 29		
EUR	eP	01 56 10
Aug. 29		
EUR	eP	02 28 40
Aug. 29		
EUR	eP	02 43 29
Aug. 29		
COL	iP	04 28 27
	i	28 34
	ipP	28 41
EUR	iP	04 28 46
	i	28 55
Aug. 29		
COL	eP	06 03 31
	ipP	03 43
	i	03 48
	e	04 02
EUR	iP	06 06 46
HHM	eP	06 06 18
RCD	e(P)	06 07 10
TUC	iP	06 07 45

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

Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s	Aug. 31		h m s			h m s			h m s
UKI	eP	01 58 48 D	COL	eP	04 09 05						
				epP	09 22						
WAS	iP	01 56 36 C									
	iScS	05 07	Aug. 31								
			BCN	eP	04 32 10						
Aug. 31											
BHP	iP	02 01 15 D	Aug. 31								
	iS	03 39	EUR	eP	07 03 01						
BCN	eP	02 06 43 D	Aug. 31								
			EUR	eP	09 42 22						
BOZ	eP	02 07 00 D									
			Aug. 31								
BUT	eP	02 07 03	COL	eP	10 05 56						
	eS	15 16									
			EUR	eP	10 06 54						
CSC	e(P)	02 04 32 D									
			Aug. 31								
EUR	eP	02 07 01	EUR	eP	10 44 42						
	iScP	10 07									
	i	11 18	Aug. 31								
	e	11 29	EUR	eP	13 32 07						
	e	12 19									
			Aug. 31								
FGU	iP	02 06 31 D	BCN	eP	15 08 39						
	i	07 58									
	iS	14 12	COL	iP	15 11 53						
	eP'P'	35 00		ipP	12 09						
	eSKPP'	37 58									
			EUR	iP	15 09 01						
GCA	iP	02 06 26(D)									
	iS	13 54	FGU	eP	15 08 45						
	eP'P'	34 47									
			GCA	eP	15 08 33						
GUA	eP'	02 15 37(D)									
	epP'	17 52	HHM	e(P)	15 09 39						
	eSKKS	24 40									
			Aug. 31								
HON	iP	02 09 13(C)	EUR	eP	18 20 46						
	epP	11 22									
			Aug. 31								
KIP	iP	02 09 11 C	RCD	e(P)	20 00 10						
	epP	11 27		e	01 17						
RCD	iP	02 05 36(D)	Aug. 31								
			COL	iP	21 08 57						
SLC	iP	02 06 41 D									
	eS	14 19	EUR	eP	21 12 17						
SJP	iP	02 02 20 D	RCD	e(P)	21 12 58						
	iS	06 28									
	iPcS	08 56	Aug. 31								
			FGU	e(P)	21 47 36						
SIT	eP	02 10 00 D									
	eS	18 10	Aug. 31								
THU	iP	02 09 32 C	EUR	eP	22 19 05						
TUC	iP	02 06 04 D		e	19 12						
	i	06 49									
	ipP	08 00	Aug. 31								
	iS	13 09	EUR	eP	22 39 46						
UKI	eP	02 07 17 D	Aug. 31								
			COL	e(P)	23 37 11						
Aug. 31											
FGU	e(P)	02 43 30									
Aug. 31											
COL	iP	03 42 02									

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Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
Local and Minor Earthquakes		14	15.5				
		16	17.5				
			19.5				
August			22.8				
BOZ			23.8				
24	07.7	17	23.8				
25	15.5	18	00.0				
	18.5		00.7				
			01.5				
BUT			14.6				
1	09.3		17.8				
2	23.2		19.2				
5	11.0	19	12.3				
6	11.0		18.1				
	23.3	21	08.9				
11	04.1		22.6				
15	08.9	22	08.2				
24	07.7	23	15.95				
		24	22.45				
COL			22.55				
2	02.9		23.9				
	08.6	25	08.1				
12	15.7		22.6				
	16.9	26	07.0				
13	02.5						
	06.9	SJP					
	11.7	2	22.3				
	13.8	3	22.3				
	13.9	4	08.8				
	15.9		22.6				
15	02.7	6	09.6				
16	18.3	7	21.2				
17	21.7	8	20.9				
	22.7	9	07.6				
	23.1		18.8				
18	04.1	14	20.7				
	10.4	15	03.2				
	11.4	18	07.8				
19	06.2	21	03.2				
	23.4	22	20.2				
20	10.7	23	20.5				
21	01.2						
	08.5	TUC					
	14.9	6	11.5				
23	11.9		13.5				
24	20.8		14.0				
25	19.2	11	11.3				
26	04.8	12	03.3				
27	20.7		07.2				
29	02.7	15	22.8				
		18	12.3				
EUR		20	12.9				
1	19.8	21	01.7				
2	16.7		23.8				
	17.9	22	00.0				
	21.0		00.5				
3	22.6		09.6				
4	20.6	25	19.6				
	22.8	26	23.8				
5	07.75	29	04.5				
	22.6						
6	14.0						
7	20.4						
	23.85						
8	11.75						
	18.3						
11	01.1						
13	04.6						

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