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SEISMOLOGICAL BULLETIN

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April, 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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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
April	h m s	°	°	
1	02 40 43.8	30.7 N.,	139.7 E.	South of Honshu, Japan. h about 135 km.
1	08 08 22.9	50.6 N.	159.7 E.	Off east coast of Kamchatka. h about 61 km.
1	15 18 22.8	39.8 N.	77.7 E.	Sinkiang Province, China. h about 21 km. Mag. 6 (Pal).
2	02 44 48.4	31.1 N.	139.8 E.	South of Honshu, Japan. h about 95 km.
2	11 14 28.1	8.6 S.	75.0 W.	Peru. h about 115 km.
2	12 52 10.6	26.9 N.	55.1 E.	Southern Iran. h about 33 km.
2	13 00 29.0	1.4 S.	101.0 E.	Near coast of Sumatra. h about 33 km.
2	14 46 08.3	24.5 S.	114.9 W.	Easter Island region. h about 33 km.
2	17 18 52.5	0.5 S.	123.2 E.	Celebes. h about 139 km.
2	18 47 17.5	0.3 S.	132.9 E.	Near north coast of New Guinea. h about 33 km.
2	22 18 38.2	57.2 S.	148.1 E.	Macquarie Islands region. h about 33 km.
3	01 10 32.2	6.8 N.	72.9 W.	Colombia. h about 221 km.
3	02 43 49.9	53.5 N.	161.5 E.	Near east coast of Kamchatka. h about 20 km.
3	07 06 33.6	0.0	123.9 E.	Celebes. h about 205 km.
3	07 55 47.1	17.6 N.	83.6 W.	North of Swan Island, Caribbean Sea. h about 33 km.
3	16 32 04.3	52.7 N.	158.9 E.	Near east coast of Kamchatka. h about 38 km.
4	01 18 01.0	39.9 N.	78.0 E.	Sinkiang Province, China. h about 35 km.
4	01 26 07.9	39.9 N.	78.1 E.	Sinkiang Province, China. h about 33 km.
4	04 59 19.7	2.7 S.	138.1 E.	Near north coast of New Guinea. h about 26 km.
4	07 38 50.2	27.1 N.	125.8 E.	Ryukyu Islands. h about 48 km.
4	07 47 48.1	19.7 S.	177.1 W.	Fiji Islands region. h about 276 km.
4	09 46 36.6	40.3 N.	77.8 E.	Sinkiang Province, China. h about 16 km. Mag. 6 (Pal).
4	10 35 08.3	5.8 S.	149.5 E.	New Britain. Felt. h about 70 km.
4	11 59 08.8	30.3 N.	50.5 E.	Persian Gulf. h about 25 km.
4	22 42 51.0	61.5 N.	4.3 E.	Near coast of Norway. h about 44 km.
5	04 42 00.1	15.1 N.	123.5 E.	Near east coast of Luzon, Philippine Islands. h about 99 km.
5	06 47 06.6	39.9 N.	78.1 E.	Sinkiang Province, China. h about 33 km.
5	18 17 06.8	39.8 N.	77.8 E.	Sinkiang Province, China. h about 33 km.
5	21 30 04.3	52.7 S.	159.0 E.	Macquarie Islands region. h about 33 km.
6	01 33 46.9	40.1 N.	77.8 E.	Sinkiang Province, China. h about 33 km.
6	03 18 28.1	44.5 N.	148.1 E.	Kurile Islands. h about 26 km.
6	04 04 39.3	40.3 N.	125.1 W.	Near coast of northern California. h about 17 km.
6	14 05 00.3	2.2 N.	97.2 E.	Near coast of Sumatra. h about 25 km.
6	15 33 38.6	20.4 S.	169.4 E.	Loyalty Islands region. h about 121 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
April	h m s	°	°	
6	18 12 40.7	27.9 N.	56.7 E.	Iran. h about 36 km.
6	19 32 34.3	11.5 S.	166.0 E.	Santa Cruz Islands. h about 106 km.
6	21 23 59.2	15.3 N.	54.0 E.	About 300 km. north of Socotra. h about 33 km.
6	22 26 29.6	1.9 N.	96.5 E.	Near coast of Sumatra. h about 25 km.
7	04 40 35.9	36.4 N.	71.0 E.	Hindu Kush region. h about 29 km.
7	04 52 40.0	36.3 N.	70.7 E.	Hindu Kush region. h about 60 km.
7	05 50 40.6	45.0 N.	112.0 W.	Hebgen Lake, Montana. h about 25 km.
7	06 45 27.9	0.7 S.	68.1 E.	Indian Ocean. h about 71 km.
7	08 35 54.9	51.3 N.	156.7 E.	Near south coast of Kamchatka. h about 33 km.
7	10 06 49.5	0.3 S.	97.0 E.	Near coast of Sumatra. h about 25 km.
7	17 37 09.9	19.4 S.	177.2 W.	Fiji Islands region. h about 327 km.
7	19 54 56.8	57.3 N.	163.6 E.	Near east coast of Kamchatka. h about 42 km.
7	21 17 45.2	39.5 N.	73.2 E.	Kirghiz-Tadzhik border. Felt at Tashkent. h about 34 km.
8	03 06 49.9	2.6 S.	81.0 W.	Near coast of Ecuador. h about 25 km.
8	04 22 08.7	2.2 S.	79.2 W.	Ecuador. Several injured and extensive property damage in southern Chimborazo Province. h about 25 km.
8	04 47 01.8	2.2 S.	79.2 W.	Ecuador. h about 25 km.
8	09 03 48.9	2.1 S.	79.1 W.	Ecuador. h about 24 km.
8	11 48 35.9	10.0 N.	122.1 E.	Negros, Philippine Islands. h about 62 km.
8	15 59 46.9	18.4 S.	168.3 E.	New Hebrides Islands region. Felt at Port Vila. h about 38 km.
8	17 59 46.7	38.4 S.	72.7 W.	Chile. h about 60 km. Mag. 6½.
8	19 18 54.9	38.1 N.	140.3 E.	Honshu, Japan. h about 153 km.
8	21 36 41.6	14.9 N.	145.1 E.	Mariana Islands region. h about 105 km. Mag. 6½.
9	00 29 51.7	14.7 N.	145.3 E.	Mariana Islands region. h about 118 km.
9	07 23 16.0	36.7 N.	121.4 W.	San Benito County, California. Moderate property damage at and near Hollister. h about 33 km. Mag. 5.5.
9	07 25 41.6	37.2 N.	120.7 W.	San Benito County, California. h about 19 km. Mag. 5.3.
9	08 46 31.3	17.5 S.	176.7 W.	Fiji Islands region. h about 55 km.
9	09 21 30.9	26.0 S.	178.4 E.	South of Fiji Islands. h about 633 km.
9	13 20 57.0	29.8 N.	138.2 E.	South of Honshu, Japan. h about 413 km.
9	15 35 10.4	24.2 N.	122.3 E.	Near east coast of Formosa. h about 33 km. Mag. 6.
9	17 14 36.9	19.0 S.	169.1 E.	New Hebrides Islands. Felt at Port Vila. h about 130 km.
9	17 17 47.6	18.3 S.	70.2 W.	Chile-Peru border. h about 29 km.
9	19 56 17.8	18.8 N.	147.7 E.	Mariana Islands region. h about 33 km.
10	06 57 13.6	24.3 N.	122.3 E.	Near east coast of Formosa. h about 22 km.
10	17 15 47.7	36.4 N.	141.7 E.	Near east coast of Honshu, Japan. h about 60 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
April	h m s	°	°	
10	17 40 27.6	17.3 S.	178.8 W.	Fiji Islands region. h about 576 km.
10	19 40 18.9	0.3 S.	132.9 E.	Near coast of New Guinea. h about 33 km.
10	20 40 03.8	52.8 S.	27.4 E.	About 1000 km. southwest of Prince Edward Islands. h about 33 km.
11	00 27 53.3	19.3 S.	178.6 W.	Fiji Islands. h about 432 km.
11	00 29 40.4	36.2 N.	141.7 E.	Near east coast of Honshu, Japan. h about 28 km.
11	02 42 25.9	40.1 N.	78.9 E.	Sinkiang Province, China. h about 33 km.
11	08 57 52.7	43.4 N.	111.2 W.	Western Idaho. h about 33 km.
11	10 12 48.9	39.6 N.	78.4 E.	Sinkiang Province, China. h about 33 km.
11	16 11 33.3	22.5 S.	169.9 E.	Loyalty Islands. h about 58 km.
11	18 32 45.0	8.8 S.	117.3 E.	Near south coast of Sumbawa. h about 33 km.
11	20 33 48.9	50.2 N.	128.6 W.	Vancouver Island region. h about 25 km.
12	03 06 53.6	31.2 S.	178.5 W.	Kermadec Islands region. h about 159 km.
12	07 47 12.3	0.1 N.	123.8 E.	Northern Celebes. h about 69 km.
12	08 53 51.4	8.3 S.	119.7 E.	Flores. h about 237 km.
12	09 57 11.4	28.4 S.	175.9 W.	Kermadec Islands region. h about 31 km.
12	10 42 40.5	18.7 N.	67.4 W.	Mona Passage. h about 33 km.
12	11 36 44.1	6.9 N.	73.5 W.	Central Colombia. h about 35 km.
12	15 01 58.8	44.8 N.	149.5 E.	Kurile Islands. h about 33 km.
12	17 17 55.3	0.3 N.	123.8 E.	Northern Celebes. h about 122 km.
12	17 27 46.5	48.3 N.	154.7 E.	Kurile Islands. h about 42 km.
12	17 52 02.0	23.3 N.	142.4 E.	Mariana Islands region. h about 64 km.
12	22 20 33.6	13.2 N.	88.9 W.	El Salvador. Minor damage at San Salvador and southern El Salvador. h about 122 km. Mag. 5¾-6.
13	04 25 58.1	23.0 N.	94.7 E.	Central Burma. h about 25 km.
13	15 25 57.7	26.9 N.	127.6 E.	Ryukyu Islands. h about 69 km.
13	16 34 39.1	40.3 N.	77.8 E.	Sinkiang Province, China. h about 19 km. Mag. 6½ (Pal).
13	17 12 40.4	15.5 S.	172.8 W.	Samoa Islands region. h about 33 km.
13	20 13 21.6	39.8 N.	77.6 E.	Sinkiang Province, China. h about 33 km.
13	21 14 57.2	39.9 N.	100.0 W.	Kansas-Nebraska border. Felt in north central Kansas and south central Nebraska. h about 25 km.
13	21 50 31.1	6.7 S.	154.9 E.	Solomon Islands region. h about 145 km.
13	23 43 04.7	28.1 S.	67.3 W.	Tucuman Province, Argentina. h about 219 km.
14	04 02 31.2	31.3 S.	178.5 W.	Kermadec Islands. h about 60 km.
14	12 04 00.8	14.9 S.	168.2 E.	New Hebrides Islands. h about 26 km.
14	12 41 02.5	10.3 N.	143.6 E.	Mariana Islands. h about 25 km.
14	18 57 49.9	57.7 S.	103.5 E.	Near coast of Sumatra. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
April	h m s	°	°	
15	00 14 45.9	34.2 N.	141.6 E.	Near east coast of Honshu, Japan. h about 56 km.
15	01 18 12.3	13.2 S.	167.1 E.	New Hebrides Islands. h about 197 km.
15	02 55 32.8	40.2 N.	77.6 E.	Sinkiang Province, China. h about 25 km.
15	09 36 24.4	32.4 S.	178.9 W.	Kermadec Islands. h about 131 km.
15	10 37 40.7	15.0 N.	119.3 E.	Off west coast of Luzon, Philippine Islands. h about 58 km.
16	05 02 39.3	39.3 N.	111.5 W.	Central Utah. Felt in Sanpete County, Utah. Minor damage at Mt. Pleasant. h about 35 km.
16	06 17 21.3	30.1 N.	138.8 E.	South of Honshu, Japan. h about 387 km.
16	10 17 46.5	22.7 S.	61.8 W.	Paraguay Province, Argentina. h about 176 km.
16	11 40 56.2	53.4 N.	158.5 E.	Kamchatka. h about 160 km.
16	12 05 53.8	3.5 S.	149.5 E.	New Ireland region. h about 109 km.
16	12 22 47.1	51.7 N.	130.7 W.	Vancouver Island region. h about 33 km.
16	23 12 52.2	3.5 S.	149.5 E.	New Britain region. h about 64 km.
17	02 32 28.2	32.0 S.	69.8 W.	Central Chile-Argentina border. h about 147 km.
17	04 37 19.6	20.4 S.	177.8 W.	Fiji Islands. h about 489 km.
17	07 45 27.6	16.2 S.	175.1 W.	Tonga Islands region. h about 288 km.
17	13 08 18.2	30.8 N.	142.2 E.	South of Honshu, Japan. h about 123 km.
17	16 21 10.2	3.9 N.	31.5 W.	Mid-Atlantic Ocean. h about 25 km.
17	20 35 10.4	20.9 S.	68.4 W.	Chile-Bolivia border. h about 119 km.
17	20 48 12.5	21.4 S.	178.6 W.	Fiji Islands. h about 549 km.
18	02 39 40.8	13.8 S.	172.2 W.	Samoa Islands. h about 60 km.
18	04 10 36.4	33.2 S.	179.6 W.	Kermadec Islands. h about 25 km.
18	04 14 13.0	13.1 N.	146.8 E.	Mariana Islands. h about 38 km.
18	08 26 54.8	44.8 N.	150.1 E.	Kurile Islands. h about 25 km.
18	13 44 06.7	6.4 S.	131.4 E.	Banda Sea. h about 33 km.
18	18 49 25.1	38.7 S.	73.3 W.	Near coast of southern Chile. h about 33 km.
18	22 04 20.2	1.9 S.	99.3 E.	Near coast of Sumatra. h about 33 km.
19	01 39 21.8	14.1 N.	90.5 W.	Guatemala. h about 98 km.
19	03 43 15.3	9.2 S.	123.4 E.	Sawoe Sea. h about 33 km.
19	05 57 15.8	5.0 S.	152.5 E.	New Ireland region. h about 114 km.
19	06 57 28.1	30.3 N.	70.4 E.	East Pakistan. h about 33 km.
19	07 39 07.9	18.1 S.	168.2 E.	New Hebrides Islands. h about 33 km.
19	11 03 55.4	19.6 S.	69.7 W.	Bolivia. h about 106 km.
19	16 12 28.7	44.4 N.	148.0 E.	Kurile Islands. h about 51 km. Mag. 5¼ (Pal).
19	18 13 56.4	55.3 N.	163.6 E.	Kamchatka. h about 38 km.
19	20 19 46.4	44.8 N.	150.2 E.	Kurile Islands. h about 27 km. Mag. 5¼-5½ (Pal).

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
April	h m s	°	°	
19	22 07 51.2	45.1 N.	149.5 E.	Kurile Islands. h about 34 km.
20	00 15 12.5	5.6 S.	128.7 E.	Banda Sea. h about 285 km.
20	05 44 34.7	50.2 N.	155.4 E.	Kurile Islands. h about 61 km.
20	13 19 37.3	52.6 N.	172.1 E.	Near Islands, Aleutian Islands. h about 33 km.
20	14 15 27.7	54.9 N.	159.6 E.	Kamchatka. h about 25 km.
20	19 19 29.7	33.1 S.	178.8 W.	Kermadec Islands region. h about 58 km.
20	21 39 10.3	15.2 S.	173.5 W.	South of Samoa Islands. Felt in Apia. h about 33 km. Mag. 6-6¼.
21	02 50 41.7	6.9 S.	129.0 E.	Banda Sea. h about 118 km.
21	14 46 10.0	55.1 N.	159.6 E.	Near east coast of Kamchatka. h about 70 km.
21	19 30 39.3	48.2 N.	154.9 E.	Kurile Islands. h about 25 km.
21	20 10 38.3	47.9 N.	154.6 E.	Kurile Islands. h about 27 km.
21	21 26 42.1	51.9 N.	173.9 W.	Andreanof Islands, Aleutian Islands. h about 36 km. Mag. 5½-5¾ (Pal).
22	10 36 10.2	31.4 S.	177.4 W.	Kermadec Islands. h about 97 km.
22	18 59 23.2	3.5 S.	150.1 E.	New Britain region. h about 91 km.
22	19 01 34.4	2.8 S.	80.8 W.	Near coast of Ecuador. h about 30 km.
23	05 14 21.2	25.9 N.	129.9 E.	Ryukyu Islands. h about 33 km.
23	09 01 41.8	44.8 N.	150.2 E.	Kurile Islands. h about 44 km. Mag. 6¼.
23	12 17 56.7	44.9 N.	150.1 E.	Kurile Islands. h about 33 km.
23	14 55 22.0	44.7 N.	150.4 E.	Kurile Islands. h about 29 km.
23	16 32 15.6	44.4 N.	150.4 E.	Kurile Islands. h about 33 km.
23	16 51 02.5	44.8 N.	150.0 E.	Kurile Islands. h about 33 km.
23	20 43 10.8	52.0 N.	171.2 W.	Fox Islands, Aleutian Islands. h about 33 km.
23	22 04 16.2	28.6 N.	140.3 E.	Bonin Islands. h about 454 km.
24	03 10 24.0	45.1 N.	150.7 E.	Kurile Islands. h about 33 km.
24	04 52 29.3	52.4 N.	173.1 W.	Fox Islands, Aleutian Islands. h about 57 km.
24	12 27 37.9	44.8 N.	150.3 E.	Kurile Islands. h about 33 km.
24	13 09 51.8	29.4 S.	176.7 W.	Kermadec Islands. h about 25 km.
25	00 28 13.2	44.9 N.	150.2 E.	Kurile Islands. h about 44 km.
25	01 17 39.0	44.7 N.	150.2 E.	Kurile Islands. h about 33 km.
25	02 31 37.2	0.0	123.7 E.	Celebes region. h about 85 km.
25	09 42 07.1	8.8 N.	70.7 W.	Western Venezuela. h about 29 km.
25	11 16 41.4	32.9 S.	178.5 W.	Kermadec Islands region. h about 45 km. Mag. 5½-5¾ (Pal).
25	23 40 34.3	28.1 N.	129.3 E.	Ryukyu Islands. h about 25 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
April	h m s	°	°	
26	00 38 07.9	44.7 N.	150.0 E.	Kurile Islands. h about 33 km.
26	02 21 10.5	5.6 S.	105.6 E.	Southern Sumatra. h about 93 km.
26	05 23 24.1	36.4 N.	71.4 E.	Hindu Kush. h about 235 km.
26	06 20 23.5	5.7 S.	151.1 E.	New Britain. h about 34 km.
26	07 22 52.2	21.9 S.	179.5 W.	Fiji Islands region. h about 622 km.
26	07 38 54.1	44.8 N.	149.9 E.	Kurile Islands. h about 20 km. Mag. 6 (Brk).
26	11 46 46.8	25.3 N.	95.4 E.	India-Burma border. h about 211 km.
26	12 03 48.6	9.8 N.	57.0 E.	About 400 km. southeast of Socotra. h about 33 km.
26	12 18 32.0	8.8 N.	91.1 W.	About 1000 km. north of Galapagos Islands. h about 33 km.
26	16 53 29.4	0.2 N.	124.1 E.	Celebes. h about 135 km.
26	19 32 33.6	44.9 N.	150.2 E.	Kurile Islands. h about 26 km.
27	00 25 48.7	25.5 S.	180.0	Fiji Islands region. h about 504 km.
27	17 52 14.2	13.2 S.	75.1 W.	Peru. Felt at Lima. h about 83 km.
27	20 04 05.4	19.2 S.	169.0 E.	New Hebrides Islands. h about 33 km.
27	20 24 35.1	36.5 N.	141.0 E.	Honshu, Japan. h about 63 km.
28	01 02 52.2	36.5 N.	121.6 W.	Monterey County, California. Felt in Hollister area. h about 41 km. Mag. 4.6
28	06 56 26.6	31.2 N.	57.2 E.	Iran. h about 20 km.
28	08 40 26.5	22.0 S.	62.9 W.	Bolivia- Argentina border. h about 82 km.
28	08 42 55.9	21.9 S.	68.0 W.	Southern Bolivia. h about 132 km.
28	20 36 25.3	17.8 S.	178.7 W.	Fiji Islands. h about 595 km.
28	22 13 02.8	18.9 N.	144.9 E.	Mariana Islands. h about 219 km.
29	06 44 08.0	50.1 S.	126.7 E.	About 2000 km. south of Australia. h about 22 km.
29	09 19 28.3	40.6 N.	127.5 W.	Off coast of northern California. h about 26 km. Mag. 5.5.
29	09 29 09.5	71.4 N.	7.4 W.	Jan Mayen Island region. h about 14 km. Mag. 5½-5¾ (Pal).
29	10 45 42.2	41.7 N.	104.7 E.	Outer Mongolia. h about 33 km.
29	11 10 19.7	30.1 N.	114.4 W.	Gulf of California. h about 16 km. Mag. 4.4.
29	22 39 44.7	3.0 S.	130.1 E.	Ceram Sea. h about 33 km.
30	00 10 22.9	49.5 S.	117.1 E.	About 2000 km. southwest of Australia. h about 33 km.
30	07 33 53.5	52.1 N.	31.9 W.	About 1000 km. south of Greenland. h about 38 km. Mag. 5½-5¾ (Pal).
30	11 00 39.3	45.3 N.	150.1 E.	Kurile Islands. h about 33 km.
30	11 15 19.8	44.8 N.	149.7 E.	Kurile Islands. h about 70 km. Mag. 5½-5¾ (Pal).

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
April	h m s	°	°	
30	14 48 11.5	15.4 S.	174.4 W.	Samoa Islands region. h about 25 km. Mag. $5\frac{3}{4}$-6 (Pal).
30	17 30 38.6	40.9 N.	127.2 W.	Off coast of northern California. h about 44 km.
30	18 35 18.9	40.7 N.	127.5 W.	Off coast of northern California. h about 33 km.
30	21 45 48.8	37.2 N.	140.4 E.	Honshu, Japan. h about 33 km.

Date and Station		Phase	(GCT)
			h m s
April 1			
COL	e(P)		00 46 43
EUR	e(P)		00 41 24
April 1			
COL	eP		02 16 50
April 1			
COL	iP		02 34 50
	i		35 54
April 1			
BCN	eP		02 53 03
COL	iP		02 50 07
EUR	iP		02 52 50
FGU	iP		02 53 07
GCA	iP		02 53 11
GUA	eP		02 44 43
RCD	eP		02 54 16
TUC	eP		02 53 27
	e pP		53 51
April 1			
COL	e(P)		07 10 09
April 1			
COL	iP		07 48 31
April 1			
COL	iP		08 14 31
	i		14 46
	iPP		15 07
EUR	iP		08 18 09
FGU	eP		08 18 27
GCA	eP		08 18 19
	ePcP		18 59
RCD	eP		08 18 36
TUC	eP		08 19 02
April 1			
COL	iP		09 16 06
April 1			
COL	iP		09 35 53
April 1			
FGU	e(P)		11 05 19
April 1			
TUC	eP		13 32 41
	e L		34 02
April 1			
COL	iP		13 56 15
April 1			
COL	eP		14 11 12

Date and Station		Phase	(GCT)
			h m s
April 1			
COL	eP		14 48 06
April 1			
BCN	eP		15 32 31
	ePP		36 40
BOZ	eP		15 31 48
BUT	eP		15 31 45
	eS		42 09
COL	iP		15 29 33
	iS		38 44
	iPKKP		48 18
	iP'P'		57 59
EUR	iP'		15 35 50
	i(PP)		36 19
	ePKKP		48 33
	eP'P'		56 46
FGU	eP		15 32 10
	eP'		35 06
	ePP		36 18
	eS		43 11
GCA	eP		15 32 17
	e		33 11
	ePP		36 09
GUA	eP		15 29 01
HHM	iP		15 31 35
	iP'		35 18
	iS		42 02
RCD	eP		15 31 54
	e P'		35 44
	ePP		37 46
TUC	eP'		15 36 47
	ePP		37 41
	ePPP		39 37
	eS		45 02
	ePS		46 45
	e L		16 07 00
TUT	e(P)		15 32 55
	ePP		37 15
	ePKKP		48 11
WAS	eP'		15 36 05
	ePP		38 09
	eS		44 41
	eL		16 13 33
April 1			
COL	e(P)		18 42 53
EUR	eP		18 39 01
April 1			
COL	eP		19 12 59
April 1			
BCN	eP		21 29 47
EUR	iP		21 30 00
GCA	e(P)		21 30 12
	e		30 49

Date and Station		Phase	(GCT)
			h m s
April 1			
EUR	eP		22 15 54
TUT	eP		22 15 07
April 1			
COL	iP		23 40 22
April 2			
EUR	iP		00 42 17
	i		42 28
April 2			
FGU	eP		01 04 02
April 2			
COL	eP		02 09 55
	e		13 07
April 2			
COL	iP		02 54 11
	epP		54 50
EUR	iP		02 56 53
FGU	eP		02 57 10
April 2			
COL	iP		05 03 10
April 2			
COL	eP		06 33 47
EUR	eP		06 24 31
April 2			
COL	eP		08 18 50
April 2			
COL	eP		09 17 30
April 2			
COL	iP		11 27 18
	ipP		27 52
	isP		28 04
EUR	iP		11 24 32
FGU	e(P)		11 24 04
	i		24 15
SJP	iP		11 20 13
TUC	eP		11 23 37
	epP		24 11
TUT	e(P)		11 23 35
April 2			
EUR	eP'		13 19 37
	ePP		22 53
FGU	eP'		13 19 37
	ePP		23 09
April 2			
BCN	eP		14 56 14
BOZ	eP		14 57 19
BUT	eP		14 57 19

Date and Station		Phase	(GCT)
			h m s
COL	eP		14 59 18
EUR	iP		14 56 39
FGU	e(P)		14 56 38
	iPcP		57 49
GCA	e(P)		14 57 21
	e		57 23
SLC	eP		14 56 49
TUC	eP		14 55 51
	epP		56 01
TUT	eP		14 55 51
April 2			
COL	eP		15 52 19
	e		16 03 35
EUR	iP		15 50 01
	e		52 00
GCA	eP		15 51 13
	e		54 31
TUC	eP		15 50 06
	e		50 34
	eL		51 43
TUT	eP		15 50 05
April 2			
COL	iP		18 27 16
EUR	eP		18 26 42
April 2			
COL	eP		18 40 34
April 2			
COL	eP		19 00 03
April 2			
COL	iP		21 05 12
EUR	eP		21 04 41
GCA	e(P)		21 04 39
	e		04 52
	i		05 08
SJP	eP		20 58 06
TUC	eP		21 04 53
	e		05 03
TUT	e(P)		21 04 43
April 2			
COL	eP		22 31 49
EUR	eP'		22 37 39
April 3			
BHP	iP		01 12 06
	iS		13 22

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Date and Station		Phase (GCT)
		h m s
BUT	iP	01 19 23
COL	iP	01 22 07
	ePcP	22 16
	epP	22 50
	ePP	25 03
	e(PKKP)	35 19
CSC	eP	01 16 09
EUR	iP	01 19 12
	epP	20 02
	eScP	24 10
	e	31 27
FGU	eP	01 18 45
GCA	eP	01 18 40
	epP	19 17
	ePKKP	38 45
SJP	eP	01 13 31
	iS	15 51
TUC	iP	01 18 18
	epP	19 01
TUT	eP	01 18 18
April 3		
COL	iP	02 14 45
	e	15 04
April 3		
COL	iP	02 49 36
	i(S)	54 09
EUR	iP	02 53 25
	eScP	57 57
FGU	eP	02 53 47
RCD	eP	02 53 49
April 3		
EUR	eP	03 30 27
April 3		
COL	eP	04 27 02
EUR	eP	04 26 13
April 3		
COL	eP	05 50 21
EUR	eP	05 57 02
April 3		
FGU	eP	06 20 50
	e	21 13
April 3		
COL	eP	07 19 07
	ePP	21 23
EUR	eP'	07 24 50
April 3		
COL	eP	07 44 59

Date and Station		Phase (GCT)
		h m s
EUR	e(P)	07 44 12
April 3		
BCN	eP	08 02 21
BOZ	eP	08 02 49
BUT	eP	08 02 57
COL	iP	08 06 14
	epP	06 44
CSC	eP	07 59 37
EUR	iP	08 02 44
FGU	eP	08 02 13
	ePcP	04 35
GCA	eP	08 02 05
	e	02 07
	esP	03 10
RCD	eP	08 02 04
SLC	eP	08 02 27
SJP	eP	07 59 51
TUC	eP	08 01 42
	i	01 49
	epP	02 02
TUT	eP	08 01 42
April 3		
COL	eP	08 58 33
April 3		
EUR	e(P)	10 46 15
April 3		
COL	iP	13 27 35
April 3		
EUR	eP	13 42 53
April 3		
COL	iP	14 02 14
April 3		
COL	eP	14 13 45
April 3		
BCN	eP	16 42 13
COL	iP	16 38 07
	ePcP	39 25
EUR	iP	16 41 52
RCD	eP	16 42 16
TUT	eP	16 42 47
April 3		
COL	eP	18 37 52
April 3		
COL	iP	22 59 22

Date and Station		Phase (GCT)
		h m s
April 4		
COL	iP	01 29 05
April 4		
COL	iP	01 37 16
April 4		
COL	iP	03 36 20
April 4		
BUT	eP	04 55 02
April 4		
COL	iP	05 11 56
SJP	eP'	05 19 32
April 4		
EUR	iP	07 11 35
April 4		
COL	iP	07 49 23
	i	49 32
EUR	eP	07 52 02
April 4		
BCN	eP	01 59 36
COL	iP	08 00 06
	iPcP	00 24
	ipP	01 18
	iPP	02 25
EUR	iP	07 59 42
FGU	e(P)	08 00 07
	epP	01 18
GCA	iP	07 59 51
	e	08 00 04
TUC	iP	07 59 42
April 4		
BOZ	eP	10 00 03
BUT	eP	10 00 00
COL	iP	09 57 46
	eS	10 07 01
	ePKKP	13 18
EUR	eP	10 00 28
	ePP	04 27
	ePKKP	16 44
FGU	eP	10 00 24
	ePP	04 03
GCA	e(P)	10 00 33
	e	03 03
	ePP	04 09
HHM	iP	09 59 49
RCD	eP	10 00 12
TUC	eP	10 01 07
	ePP	05 52
	eS	13 13
	eSS	20 47
	e L	37 55

Date and Station		Phase (GCT)
		h m s
April 4		
COL	iP	10 47 31
	i	48 07
EUR	iP	10 48 37
GUA	eP	10 38 54
	eS	43 15
SJP	eP'	10 54 33
April 4		
COL	eP	11 39 03
April 4		
COL	iP	12 11 41
April 4		
COL	iP	12 52 27
EUR	e(P)	12 57 20
FGU	e(P)	12 57 30
	i	57 50
April 4		
COL	eP	13 19 33
April 4		
COL	iP	13 59 11
EUR	e(P)	13 59 20
April 4		
COL	eP	14 57 57
April 4		
COL	eP	15 08 41
	e	09 32
April 4		
COL	eP	17 40 20
EUR	eP	17 41 46
April 4		
BCN	eP	21 33 35
EUR	eP	21 34 19
	i	35 40
GCA	e(P)	21 34 19
	e	35 32
TUC	eP	21 35 53
April 4		
COL	eP	22 29 53
TUT	e(P)	22 32 25
April 4		
COL	iP	22 51 59
EUR	e(P)	22 53 24
April 4		
COL	iP	23 16 46

Date and Station	Phase	(GCT)
		h m s
April 5		
COL	eP	00 00 57
April 5		
COL	eP	01 17 54
April 5		
COL	eP	02 11 26
April 5		
COL	iP	03 09 58
EUR	iP	03 13 36
April 5		
COL	iP	04 53 37
EUR	eP'	05 03 48
FGU	eP'	05 03 54
April 5		
COL	iP	06 21 23
EUR	eP	06 18 30
	ePP	21 58
	eS	29 14
FGU	e(P)	06 18 30
TUT	eP	06 17 47
April 5		
COL	eP	06 58 05
	e	07 03 55
TUC	eP	07 00 20
	e	00 27
April 5		
COL	iP	13 10 52
April 5		
COL	eP	13 22 28
April 5		
COL	eP	16 42 41
April 5		
COL	iP	18 28 15
April 5		
COL	iP	19 19 50
April 5		
COL	eP'	21 49 17
EUR	eP'	21 46 54
April 5		
BHP	iP	22 13 18
	iS	13 39
EUR	eP	22 21 17
April 5		
COL	iP	22 41 18
April 6		
COL	iP	01 21 14

Date and Station	Phase	(GCT)
		h m s
April 6		
COL	iP	01 44 58
EUR	eP	01 47 34
	ePP	51 07
April 6		
COL	iP	03 26 06
EUR	iP	03 29 26
	i	29 41
TUC	eP	03 30 12
April 6		
BCN	eP	04 06 56
BOZ	eP	04 07 25
	e(S)	10 47
BUT	eP	04 07 13
	eS	10 08
COL	iP	04 10 31
CSC	eP	04 11 37
EUR	iP	04 06 25
GCA	iP	04 07 23
	e(S)	11 10
HHM	iP	04 07 24
	iS	10 19
RCD	iP	04 08 26
	i	08 36
	eS	11 44
SLC	eP	04 07 07
	e(S)	10 15
SJP	iP	04 14 11
TUC	iP	04 08 04
	eS	10 19
	eL	10 57
April 6		
COL	eP	08 55 30
April 6		
COL	iP	09 15 44
EUR	eP	09 15 20
April 6		
SJP	iP	09 39 41
	i	39 51
April 6		
COL	eP	11 12 17
	e	15 15
April 6		
COL	iP	12 10 44
April 6		
COL	iP	12 51 33
EUR	eP	12 47 36

Date and Station	Phase	(GCT)
		h m s
TUC	eP	12 46 23
TUT	eP	12 46 23
April 6		
COL	iP	13 50 20
April 6		
COL	eP	14 18 43
	iPP	21 56
	ePKKP	35 09
EUR	iP'	14 24 10
	ePP	26 20
RCD	eP'	14 24 14
SJP	iP'	14 25 15
TUT	eP'	14 24 28
April 6		
EUR	eP	15 11 29
April 6		
COL	iP	15 46 32
	ipP	46 51
EUR	iP	15 46 39
	ipP	46 55
RCD	eP	15 49 54
April 6		
COL	iP	18 04 49
	e	05 15
April 6		
COL	iP	18 25 13
	ePKKP	43 15
EUR	eP	18 27 29
	eP'	18 30 51
	ePP	31 45
	ePKKP	43 07
FGU	eP'	18 30 40
April 6		
COL	eP	19 44 52
	i	52 33
April 6		
COL	e(P)	20 04 05
EUR	iP	20 01 35
April 6		
COL	iP	22 26 25
EUR	iP	22 26 52
April 6		
COL	iP'	22 43 16
EUR	iP'	22 45 41
FGU	eP'	22 43 41

Date and Station	Phase	(GCT)
		h m s
April 7		
FGU	e(P)	00 25 08
	e	25 55
April 7		
COL	iP	01 27 25
April 7		
COL	iP	04 35 42
April 7		
COL	iP	04 52 12
	i	52 40
EUR	eP'	04 58 47
April 7		
COL	iP	05 04 17
EUR	eP'	05 10 52
April 7		
BOZ	eP	05 50 56
	eS	51 10
	eL	51 30
BUT	eP	05 50 59
	eS	51 10
EUR	iP	05 52 14
	i	52 26
FGU	eP	05 51 47
	iS	51 52
	iL	52 53
HHM	e(P)	05 51 36
	iL	52 32
RCD	eP	05 52 15
TUC	eP	05 53 43
April 7		
COL	eP	06 33 58
April 7		
COL	eP	07 04 00
	eP'	08 21
EUR	iP	07 04 55
	i	05 28
	eP'	08 07
FGU	eP	07 04 49
GCA	iP	07 05 02
	e	05 58
TUC	eP	07 05 12
	i	05 16
TUT	e(P)	07 05 16
April 7		
COL	iP	08 42 15
	i	42 29

Date and Station		Phase (GCT)
		h m s
EUR	iP	08 45 55
	i	46 10
FGU	eP	08 46 12
	e	52 09
RCD	eP	08 46 20
TUC	iP	08 46 49
	e	47 04
April 7		
COL	iP	09 15 43
April 7		
COL	iP	10 18 58
EUR	eP	10 19 51
April 7		
COL	eP'	10 24 46
EUR	iP'	10 26 02
FGU	eP'	10 25 52
	i	26 07
April 7		
COL	eP	12 16 20
EUR	iP	12 15 04
April 7		
EUR	eP	14 06 35
April 7		
COL	eP	15 01 19
April 7		
COL	eP	15 37 56
April 7		
COL	iP	17 49 18
EUR	iP	17 48 55
April 7		
BCN	eP	20 04 32
BOZ	eP	20 04 00
BUT	eP	20 03 53
COL	iP	20 00 10
	ePcP	02 59
	eS	04 21
	iPKKP	16 48
	i(P'P')	35 38
EUR	iP	20 04 10
	ipP	04 20
FGU	iP	20 04 28
	ipP	04 37
	iPP	06 40
	ePPP	07 56
GCA	eP	20 04 41
	ePP	06 17

Date and Station		Phase (GCT)
		h m s
RCD	iP	20 04 32
TUC	eP	20 05 11
TUT	e(P)	20 05 15
April 7		
COL	eP	21 29 02
	i	29 10
EUR	e(P)	21 31 36
April 8		
EUR	eP	00 46 01
FGU	eP	00 45 28
GCA	eP	00 45 50
April 8		
BHP	iP	03 09 38
	iS	12 57
COL	eP	03 19 14
	eS	29 30
EUR	iP	03 16 09
FGU	iP	03 15 52
	i	15 57
GCA	e(P)	03 15 10
	e	15 36
SJP	iP	03 12 19
	i	12 29
TUC	iP	03 15 07
	e	15 17
TUT	eP	03 15 08
April 8		
BHP	iP	04 24 26
	iS	26 58
COL	iP	04 34 34
EUR	iP	04 31 31
FGU	eP	04 31 12
	e	31 20
	ePcP	32 51
GCA	eP	04 30 59
RCD	eP	04 31 11
SJP	iP	04 27 25
	iPP	28 02
TUC	iP	04 30 32
	e	30 42
TUT	eP	04 30 31
April 8		
BHP	iP	04 48 42
	iS	51 41

Date and Station		Phase (GCT)
		h m s
BUT	eP	04 56 32
COL	iP	04 59 28
	iPP	05 02 40
CSC	eP	04 54 05
EUR	iP	04 56 25
FGU	iP	04 56 06
	ePP	58 11
	eS	05 03 21
GCA	e(P)	04 55 40
	i	55 55
RCD	eP	04 56 05
SLC	eP	04 56 16
SJP	eP	04 52 17
	iPP	52 53
TUC	iP	04 55 25
	e	55 35
TUT	eP	04 55 25
April 8		
COL	iP	05 42 11
April 8		
BHP	iP	09 06 29
	iS	08 35
BCN	eP	09 12 48
BUT	eP	09 13 31
COL	iP	09 16 14
	iPP	19 28
CSC	eP	09 10 51
EUR	iP	09 13 12
	ePKKP	31 04
	eL	32 19
FGU	iP	09 12 52
	epP	13 02
	ePP	14 33
GCA	eP	09 12 38
	e	13 11
RCD	eP	09 12 51
SJP	eP	09 09 04
TUC	iP	09 12 12
	e	12 22
TUT	eP	09 12 12
April 8		
COL	iP	12 00 43
	eS	01 04
April 8		
COL	iP	12 55 52

Date and Station		Phase (GCT)
April 8		h m s
COL	iP	13 31 29
EUR	eP	13 34 12
April 8		
COL	eP	13 52 34
April 8		
COL	iP	14 00 25
EUR	e(P)	14 03 17
April 8		
BCN	eP	16 12 48
COL	eP	16 12 36
	eP'	17 14
EUR	iP	16 12 48
	eP'	17 23
April 8		
BHP	iP	18 08 17
	iS	14 11
BCN	eP	18 12 12
BOZ	eP	18 12 44
BUT	eP	18 12 48
COL	iP'	18 18 29
	ePKKP	28 47
	eP'P'	38 11
CSC	eP	18 11 09
EUR	iP	18 12 29
	ipP	12 39
	ePKKP	30 23
	eP'P'	38 32
FGU	eP	18 12 21
	eS	22 42
GCA	eP	18 12 09
	e(PP)	14 33
	eP'	17 05
	eS	22 29
GUA	eP'	18 18 22
HHM	e(P)	18 13 06
RCD	eP	18 12 26
SJP	eP	18 09 26
SLC	eP	18 12 27
TUC	iP	18 11 46
	ipP	11 55
	ePP	14 49
	eP'	16 38
	eS	21 46
	eP'P'	37 40
TUT	eP	18 11 46

Date and Station		Phase (GCT)
		h m s
WAS	iP	18 11 36
	epP	12 24
April 8		
EUR	iP	18 51 29
April 8		
COL	iP	19 27 25
	iPcP	28 27
EUR	iP	19 30 27
	ipP	31 11
FGU	eP	19 30 42
RCD	eP	19 30 50
TUC	iP	19 31 09
	epP	31 54
April 8		
BCN	eP	21 49 31
BOZ	eP	21 49 28
BUT	eP	21 49 22
	epP	49 46
COL	iP	21 47 25
	epP	47 43
	eS	56 07
	eP'P'	22 15 51
EUR	iP	21 49 21
	ipP	49 49
	i(S)	59 20
	eSKS	59 40
	eP'P'	22 15 10
FGU	iP	21 49 50
	i	50 06
	eS	00 02
GCA	iP	21 49 40
	e	51 22
	eS	22 00 01
GUA	iP	21 37 05
	eS	39 31
	ePcP	42 20
	eScP	45 51
	e(ScS)	49 33
HON	eP	21 46 01
HHM	eP	21 49 14
	epP	49 40
	iS	59 39
KIP	eP	21 45 56
RCD	iP	21 49 54
SLC	eP	21 49 32
SJP	eP'	21 55 41
	ePP	59 09
TUC	iP	21 49 50
	ipP	50 18

Date and Station		Phase (GCT)
		h m s
TUT	eP	21 49 50
April 8		
BOZ	eP	22 32 42
April 8		
COL	eP	23 36 56
EUR	iP	23 39 56
April 9		
COL	iP	00 40 35
EUR	iP	00 42 31
	ipP	42 57
FGU	eP	00 42 50
	ipP	43 19
GUA	iP	00 30 16
	eS	31 35
April 9		
EUR	eP	04 33 55
April 9		
COL	eP	05 30 15
April 9		
EUR	eP	06 46 45
	e	47 53
GCA	iP	06 46 22
SLC	eP	06 46 03
TUC	eP	06 47 46
April 9		
BCN	iP	07 24 37
BOZ	eP	07 26 12
	e(S)	29 30
BUT	eP	07 26 07
	eS	29 02
	eL	31 08
COL	iP	07 29 50
	epP	30 05
	iPP	32 38
	iPPP	35 02
	ePcP	35 18
CSC	eP	07 29 49
EUR	eP	07 24 35
FGU	eP	07 25 49
	i(S)	28 43
GCA	eP	07 25 14
	i(S)	27 01
HHM	e(P)	07 26 27
	iL	30 15
SLC	eP	07 25 27
	eS	27 31
	e L	30 35

Date and Station		Phase (GCT)
		h m s
SJP	eP	07 32 25
SIT	eP	07 28 22
	e	30 44
TUC	eP	07 25 38
	i	25 44
	eS	28 20
	eL	28 43
TUT	eP	07 25 39
	iS	27 42
UKI	eP	07 24 00
WAS	e(P)	07 30 09
	e	41 13
April 9		
HHM	e(P)	07 28 50
TUC	eP	07 27 56
	i	28 02
	eS	30 38
	eL	31 00
TUT	eP	07 27 56
	eS	30 35
April 9		
COL	iP	08 41 31
	i	42 54
EUR	eP	08 37 09
April 9		
COL	iP	08 59 02
	i	59 07
EUR	eP	08 58 39
FGU	eP	08 59 04
April 9		
BCN	iP	09 33 19
COL	iP	09 33 44
	ipP	35 59
EUR	iP	09 33 24
	ipP	35 45
FGU	eP	09 33 45
	epP	36 02
HON	iP	09 29 48
SJP	iP'	09 39 12
	epP'	41 49
TUC	iP	09 33 22
	ipP	35 41
TUT	eP	09 33 23
	epP	35 36
April 9		
COL	iP	10 38 40

Date and Station		Phase (GCT)
		h m s
April 9		
COL	iP	12 16 36
April 9		
COL	eP	13 30 01
EUR	eP	13 32 36
April 9		
COL	eP	13 58 18
April 9		
BCN	eP	15 48 53
BOZ	eP	15 48 35
BUT	eP	15 48 28
	eS	59 11
COL	iP	15 46 09
	iPcP	46 33
	eS	55 12
	eP'P'	16 14 25
EUR	iP	15 48 39
	ePP	52 22
	ePKKP	16 05 42
	eP'P'	13 43
FGU	eP	15 48 51
	ePP	52 36
	eS	59 29
GUA	eP	15 40 20
	eS	44 44
HHM	eP	15 48 18
	iS	58 48
KIP	iP	15 46 40
SLC	eP	15 48 47
SJP	eP'	15 54 18
	i	54 33
	iSKP	58 03
SIT	eP	15 47 00
TUC	eP	15 49 16
	ePP	52 55
	eS	16 00 59
	eL	19 20
TUT	e(P)	15 49 16
WAS	e(P)	15 50 06
April 9		
COL	eP	17 27 20
	epP	27 53
EUR	eP	17 27 27
TUC	iP	17 27 34
TUT	eP	17 27 35

Date and Station		Phase (GCT) h m s
April 9		
BCN	eP	17 28 51
BUT	eP	17 29 27
COL	eP	17 31 37
CSC	eP	17 27 05
EUR	iP	17 29 10
FGU	eP	17 28 54
GCA	eP	17 28 44
SJP	iP	17 24 56
TUC	iP	17 28 18
TUT	eP	17 28 18
April 9		
COL	eP	18 14 39
April 9		
COL	eP	20 06 39
EUR	iP	20 08 42
	i	08 54
FGU	eP	20 09 03
	e	11 18
April 10		
EUR	iP	00 41 09
FGU	eP	00 40 55
GCA	eP	00 40 37
SJP	iP	00 37 01
TUC	iP	00 40 24
TUT	e(P)	00 40 22
April 10		
EUR	eP	01 22 14
April 10		
COL	iP	02 08 08
April 10		
COL	eP	02 44 48
EUR	iP	02 47 19
April 10		
COL	eP	04 05 44
EUR	iP	04 09 13
April 10		
COL	iP	07 08 17
	ePcP	08 55
EUR	eP	07 10 45
	e	12 53

Date and Station		Phase (GCT) h m s
April 10		
COL	iP	08 16 38
EUR	eP	08 16 10
April 10		
COL	iP	09 11 35
April 10		
COL	eP	11 33 40
April 10		
COL	eP	13 16 25
EUR	eP	13 12 36
FGU	eP	13 12 15
TUC	eP	13 11 27
TUT	e(P)	13 11 25
April 10		
COL	e(P)	14 29 14
April 10		
COL	eP	17 24 38
EUR	e(P)	17 27 32
April 10		
COL	iP	17 52 05
EUR	iP	17 51 46
April 10		
COL	iP	19 35 51
	i	35 56
	iS	36 26
April 10		
COL	iP	19 52 56
April 10		
BCN	eP'	20 59 45
COL	eP'	21 01 12
EUR	iP'	20 59 53
	i	21 00 01
FGU	eP'	20 59 41
GCA	eP'	20 59 43
TUT	eP'	20 58 32
April 10		
COL	iP	23 27 39
April 11		
COL	eP	00 38 31
	epP	38 52
EUR	iP	00 41 31
FGU	e(P)	00 41 38
	e	41 45
TUC	eP	00 41 57
	epP	42 23

Date and Station		Phase (GCT) h m s
April 11		
COL	iP	02 53 31
April 11		
FGU	eP	03 05 20
	i	05 44
April 11		
COL	eP	03 30 45
April 11		
COL	e(P)	04 04 12
April 11		
COL	e(P)	04 34 25
EUR	iP	04 36 39
April 11		
COL	iP	07 51 55
April 11		
BOZ	eP	08 58 29
	eS	59 01
BUT	eP	08 58 37
	eS	59 15
EUR	eP	08 59 11
RCD	eP	08 59 38
SLC	eP	08 58 34
	eS	59 14
April 11		
COL	iP	10 24 01
April 11		
COL	e(P)	10 44 19
	i	44 24
April 11		
TUC	eP	11 35 56
	e	36 12
	e L	37 10
TUT	eP	11 36 08
April 11		
FGU	eP	14 14 35
	i	14 44
	i	15 37
April 11		
COL	iP	15 55 44
EUR	eP	15 55 37
April 11		
COL	iP	16 24 42
	ipP	24 52
	iPP	28 51
	i(pPP)	29 15
EUR	eP	16 24 05
April 11		
EUR	iP	17 58 17

Date and Station		Phase (GCT) h m s
GCA	eP	17 58 38
April 11		
EUR	eP	18 30 15
FGU	e(P)	18 30 30
	e	34 12
GCA	e(P)	18 29 37
	eS	31 06
	e L	32 06
TUC	eP	18 28 27
	iS	28 43
	eL	29 46
TUT	eP	18 28 29
	iS	29 39
April 11		
COL	eP'	18 50 15
EUR	iP'	18 51 28
	i	51 47
TUT	e(PP)	18 54 50
April 11		
COL	iP	20 37 50
	iPP	38 26
	i	38 42
EUR	eP	20 37 16
FGU	eP	20 37 46
RCD	eP	20 38 10
TUC	eP	20 38 53
TUT	eP	20 38 52
April 11		
COL	iP	23 26 28
	i	26 43
EUR	eP	23 29 54
April 12		
SJP	eP	03 07 47
April 12		
COL	eP	03 20 14
	e(pP)	20 37
EUR	iP	03 19 41
TUC	iP	03 19 37
TUT	eP	03 19 37
April 12		
COL	iP	04 38 00
April 12		
COL	eP	08 00 01
UKI	eP	07 59 05

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

Date and Station		Phase (GCT)
		h m s
EUR	iP	22 03 32
April 13		
COL	iP	22 55 03
April 13		
EUR	iP	23 55 00
FGU	eP	23 54 49
GCA	eP	23 54 32
RCD	eP	23 54 50
TUC	eP	23 54 13
TUT	eP	23 54 14
April 14		
COL	iP	00 18 15
April 14		
FGU	e(P)	00 50 18
	eS	50 46
April 14		
COL	eP	03 15 19
April 14		
COL	e(P)	04 16 06
EUR	iP	04 15 34
TUC	eP	04 15 29
	epP	15 42
TUT	eP	04 15 29
April 14		
EUR	eP	06 46 19
April 14		
COL	eP	07 55 04
April 14		
COL	eP	08 26 26
	e	32 17
April 14		
COL	iP	12 16 39
	e	17 18
EUR	iP	12 16 55
TUT	eP	12 17 02
April 14		
COL	eP	12 52 25
EUR	iP	12 54 11
	i	54 23
GUA	eP	12 41 57
	e(S)	42 37
April 14		
COL	iP	13 19 19
April 14		
EUR	e(P)	15 18 00

Date and Station		Phase (GCT)
		h m s
April 14		
EUR	eP'	19 17 12
	ePP	20 19
April 14		
COL	iP	20 25 03
April 14		
COL	eP	20 40 13
April 14		
COL	e(P)	21 31 20
April 14		
COL	iP	22 58 49
April 14		
COL	i(P)	23 20 41
April 15		
COL	iP	00 23 47
	epP	24 11
EUR	eP	00 26 38
FGU	eP	00 26 55
TUC	eP	00 27 22
	epP	27 47
TUT	eP	00 27 21
April 15		
COL	iP	01 30 26
	i(pP)	31 09
EUR	eP	01 30 44
TUC	eP	01 31 01
TUT	e(P)	01 30 54
April 15		
BCN	eP	03 00 03
COL	iP	03 06 44
TUC	eP	03 00 58
	eS	02 23
	e L	02 29
TUT	eP	03 00 57
	eS	02 29
April 15		
COL	eP	05 40 00
April 15		
SJP	eP	06 19 35
April 15		
EUR	eP	07 00 16
TUC	iP	07 01 20
April 15		
COL	iP	08 37 42
April 15		
EUR	iP	09 25 01

Date and Station		Phase (GCT)
		h m s
April 15		
EUR	eP	09 49 25
	ipP	49 37
TUC	eP	09 49 21
	epP	49 52
April 15		
COL	eP	10 49 33
April 15		
COL	eP	12 32 19
April 15		
COL	iP	15 42 21
	e	42 31
April 15		
COL	iP	16 46 39
	i	46 50
April 15		
COL	eP	18 44 11
April 15		
EUR	e(P)	19 55 15
April 15		
COL	eP	23 00 55
EUR	e(P)	23 01 16
April 16		
COL	iP	00 16 56
April 16		
COL	iP	02 22 03
April 16		
FGU	eP	02 43 34
April 16		
EUR	e(P)	04 00 49
April 16		
COL	eP	04 08 05
	i	10 27
EUR	eP	04 11 58
	e	13 58
April 16		
COL	iP	04 17 49
April 16		
BCN	eP	05 03 42
BOZ	eP	05 04 14
BUT	eP	05 04 47
COL	iP	05 09 15
EUR	eP	05 03 32
	i(S)	04 20
SLC	eP	05 03 02
	e	03 17
	eS	03 35
	eL	04 01

Date and Station		Phase (GCT)
		h m s
TUC	eP	05 04 31
	i	04 45
	e L	06 21
TUT	eP	05 04 32
	i L	06 18
April 16		
COL	iP	06 26 27
	epP	27 56
EUR	eP	06 29 04
	ePcP	29 21
FGU	eP	06 30 55
	ePP	34 03
April 16		
COL	iP	09 55 17
EUR	eP	09 54 43
April 16		
EUR	eP	10 29 40
TUT	eP	10 28 53
April 16		
COL	eP	10 59 09
April 16		
BCN	eP	11 02 51
EUR	eP	11 02 39
April 16		
BOZ	eP	11 20 16
EUR	e(P)	11 19 14
April 16		
BUT	eP	11 50 08
COL	iP	11 46 40
	epP	47 09
EUR	iP	11 50 29
	ipP	50 44
FGU	iP	11 40 45
GCA	iP	11 50 56
HON	e(P)	11 49 03
HHM	iP	11 49 51
	ePcP	54 46
KIP	iP	11 49 05
TUC	iP	11 51 24
	ipP	52 00
April 16		
COL	iP	12 18 07

Date and Station		Phase (GCT)
		h m s
GUA	eP	12 09 55
	e(pP)	10 30
	e(S)	14 45
HHM	e(P)	12 19 19
April 16		
BCN	eP	12 27 11
BOZ	eP	12 26 11
	eS	30 26
BUT	eP	12 25 53
	eS	29 34
COL	eP	12 26 28
	iS	29 55
EUR	iP	12 26 31
	i	27 41
FGU	eP	12 26 58
	e(S)	29 11
GCA	eP	12 27 19
	e(S)	30 42
HHM	iP	12 25 29
SLC	eP	12 26 44
SIT	eP	12 24 15
TUC	eP	12 28 04
	ePP	28 42
	e(S)	32 18
	eL	36 00
TUT	eP	12 28 03
April 16		
COL	e(P)	13 27 41
EUR	e(P)	13 27 46
April 16		
COL	e(P)	15 11 58
EUR	eP	15 12 02
April 16		
HHM	eP	15 36 04
	eL	37 12
April 16		
EUR	iP	17 01 17
TUC	eP	17 01 12
TUT	eP	17 01 13
April 16		
COL	eP	22 02 03
April 16		
COL	iP	23 25 35
	ipP	25 51
	ePP	28 35
April 17		
COL	iP	02 47 31

Date and Station		Phase (GCT)
		h m s
EUR	iP	02 44 43
	iPcP	44 54
GCA	eP	02 44 22
SJP	e(P)	02 41 38
TUC	iP	02 43 57
	epP	44 32
TUT	eP	02 43 58
April 17		
COL	iP	04 49 16
	epP	51 15
EUR	iP	04 48 53
TUC	iP	04 48 54
	epP	51 18
TUT	eP	04 48 54
April 17		
COL	iP	07 57 24
EUR	iP	07 56 57
TUC	iP	07 56 58
TUT	eP	07 56 58
April 17		
BCN	eP	13 20 26
BUT	eP	13 20 05
COL	eP	13 17 32
EUR	eP	13 19 11
GCA	eP	13 20 33
TUT	e(P)	13 20 50
April 17		
COL	eP	13 25 32
EUR	iP	13 25 55
TUT	eP	13 24 53
April 17		
COL	eP	14 02 08
April 17		
COL	iP	16 17 31
	iS	17 47
	e	34 43
April 17		
BCN	eP	16 33 35
COL	eP	16 34 13
	i(PcP)	34 44
EUR	iP	16 33 38
FGU	eP	16 33 12

Date and Station		Phase (GCT)
		h m s
GCA	eP	16 33 21
TUT	eP	16 33 16
April 17		
COL	iP	18 11 40
	iS	11 55
April 17		
COL	iP	20 25 11
April 17		
BCN	eP	20 46 21
BOZ	eP	20 46 51
	epP	47 24
COL	eP	20 49 01
EUR	i(P)	20 46 51
FGU	eP	20 46 25
GCA	eP	20 46 15
TUC	eP	20 45 50
	epP	46 22
TUT	eP	20 45 50
April 17		
COL	iP	21 00 13
	epP	02 17
EUR	i(P)	20 59 47
FGU	eP	21 00 13
GCA	eP	20 59 59
	ipP	01 04
TUC	iP	20 59 51
TUT	eP	20 59 51
April 18		
COL	iP	01 51 23
April 18		
COL	iP	02 51 51
	i(PcP)	52 00
EUR	eP	02 51 18
GCA	eP	02 51 28
	e	52 12
TUC	eP	02 51 10
TUT	e(P)	02 51 14
April 18		
COL	eP	03 46 00
EUR	iP	03 49 27
	e	59 56
April 18		
COL	iP	04 25 10
	i	25 23

Date and Station		Phase (GCT)
		h m s
EUR	e(P)	04 24 01
TUC	iP	04 24 06
April 18		
EUR	iP	04 27 01
GUA	iP	04 14 44
	iS	15 06
TUT	eP	04 27 30
April 18		
COL	eP	05 09 14
April 18		
COL	eP	05 16 51
April 18		
COL	eP	05 40 06
April 18		
EUR	eP	07 51 39
April 18		
COL	iP	08 34 24
	e	34 33
EUR	iP	08 37 44
TUC	eP	08 38 31
April 18		
COL	eP	09 48 48
EUR	iP	09 48 57
TUC	eP	09 49 04
April 18		
COL	eP	11 52 16
April 18		
COL	eP	12 21 34
April 18		
COL	iP	12 56 32
April 18		
COL	eP	13 57 12
April 18		
COL	eP	16 15 26
April 18		
COL	iP	16 59 35
April 18		
EUR	i(P)	19 02 16
TUC	iP	19 01 34
April 18		
COL	iP	23 45 49
April 19		
COL	iP	01 49 45
	iPcP	50 21

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

Date and Station	Phase	(GCT)
April 21		h m s
COL	iP	06 55 19
	i	55 29
EUR	e(P)	06 56 52
April 21		
EUR	eP	08 06 29
April 21		
COL	eP	08 41 57
EUR	eP	08 45 25
April 21		
COL	iP	10 13 09
EUR	eP	10 16 35
April 21		
COL	e(P)	11 45 38
EUR	eP	11 47 33
TUT	e(P)	11 47 48
April 21		
COL	iP	12 24 03
	i	24 39
April 21		
COL	eP	13 46 37
	e(PP)	50 13
EUR	eP	13 47 34
GUA	iP	13 35 10
	eS	35 20
April 21		
COL	iP	14 05 26
April 21		
COL	eP	14 19 22
	i	20 32
EUR	iP	14 22 56
	i	23 06
April 21		
COL	iP	14 51 45
EUR	eP	14 55 40
RCD	eP	14 56 02
April 21		
COL	iP	16 14 03
April 21		
GCA	eP	17 20 49
	i	20 52
April 21		
BOZ	eP	19 40 48
COL	iP	19 37 25
EUR	iP	19 40 56
FGU	eP	19 41 14
RCD	eP	19 41 22
April 21		
BCN	eP	20 21 16
BOZ	eP	20 20 51
BUT	eP	20 20 42
COL	iP	20 17 28
	e(pP)	17 43
CSC	eP	20 23 12
EUR	iP	20 20 59
	i(S)	30 41
FGU	eP	20 21 18
GCA	eP	20 21 26
HHM	e(P)	20 20 27
RCD	iP	20 22 24
SLC	eP	20 21 08
SIT	eP	20 18 31
TUC	eP	20 21 50
TUT	iP	20 21 49
April 21		
BHP	iP	21 38 59
	i	39 40
BCN	eP	21 34 52
BOZ	eP	21 34 25
COL	iP	21 31 03
	e	31 41
	eS	34 36
CSC	eP	21 37 28
EUR	iP	21 34 28
FGU	eP	21 34 53
	eS	40 26
GCA	e(P)	21 35 02
	e	35 04
HHM	e(P)	21 33 59
RCD	eP	21 36 09
	ePP	38 01
	ePPP	39 00
SLC	eP	21 35 50
SJP	eP	21 39 13
	i(PcP)	39 37
SIT	eP	21 31 48
TUC	eP	21 35 31
TUT	eP	21 35 31
WAS	e(P)	21 37 14
April 21		
COL	eP	22 16 29
April 22		
COL	eP	00 42 41
EUR	e(P)	00 43 48
GUA	iP	00 34 26
	ePP	36 26
April 22		
PHI	eP	04 51 15
	e(S)	56 33
April 22		
COL	iP	06 25 04
EUR	iP	06 24 45
TUC	iP	06 24 48
April 22		
COL	iP	06 58 15
April 22		
COL	iP	07 35 04
EUR	eP	07 37 41
April 22		
EUR	e(P)	11 41 22
TUC	eP	11 39 43
	e	39 48
April 22		
COL	eP	12 32 21
	i	32 27
April 22		
COL	iP	13 06 59
April 22		
COL	eP	15 30 09
	i	30 16
April 22		
COL	i(P)	17 13 07
EUR	eP	17 10 59
April 22		
COL	iP	17 48 03
April 22		
GCA	e(P)	18 32 20
	eS	33 14
April 22		
COL	eP	19 11 37
	i(pP)	12 04
EUR	e(P)	19 12 24
GUA	eP	19 03 25
	e(ScP)	10 41
KIP	e(P)	19 09 10
April 22		
BHP	iP	19 04 26
	iS	07 48
COL	eP	19 13 59
	ePcP	14 37
CSC	eP	19 08 41
EUR	iP	19 10 54
	e(S)	16 41
FGU	eP	19 10 36
GCA	eP	19 10 23
SJP	iP	19 07 03
TUC	iP	19 09 53
TUT	eP	19 09 53
April 22		
COL	iP	21 11 45
April 23		
COL	eP	00 44 15
	i	45 33
April 23		
FGU	e(P)	02 00 30
April 23		
CSC	eP	03 22 50
	eS	23 18
EUR	eP	03 30 27
WAS	e(P)	03 24 04
April 23		
BCN	eP	05 27 36
	ePP	31 17
BOZ	eP	05 27 22
BUT	eP	05 27 17
COL	iP	05 24 53
	epP	25 29
	eS	33 32
	e(ScS)	34 57
EUR	iP	05 27 25
	i	28 44
	ePP	30 56
	e	33 30
	ePKKP	45 18
FGU	iP	05 27 39
GCA	eP	05 27 45

Date and Station		Phase (GCT)
		h m s
GUA	iP	05 18 42
	eS	22 38
HHM	i(P)	05 27 07
RCD	eP	05 27 46
SLC	eP	05 27 34
SIT	eP	05 25 42
TUC	eP	05 28 01
	ePP	31 57
TUT	eP	05 28 01
April 23		
COL	eP	06 10 51
April 23		
BCN	eP	09 12 45
	eP'P'	41 14
BOZ	eP	09 12 24
	eS	21 04
	e(P'P')	38 40
BUT	eP	09 12 14
	eS	20 47
COL	iP	09 09 07
	esP	10 45
	ePP	12 19
	iS	15 03
CSC	eP	09 14 35
	eS	25 16
EUR	iP	09 12 27
	i(pP)	12 43
	eP'P'	40 54
FGU	eP	09 12 45
	ePP	15 28
	eS	21 42
HHM	e(P)	09 11 59
	eS	20 19
RCD	iP	09 12 54
	iPP	15 22
	ePPP	17 05
	e(S)	23 03
SLC	eP	09 12 38
SIT	eP	09 10 08
	eS	16 55
TUC	iP	09 13 16
	ePP	16 00
	eS	22 34
	eL	31 00
TUT	eP	09 13 16
	ipP	13 30
	ePP	16 01
	ePPP	18 08
	eS	22 49

Date and Station		Phase (GCT)
		h m s
WAS	iP	09 14 21
	i	15 01
	ePP	17 17
	eS	25 06
April 23		
EUR	eP	09 24 40
	ipP	24 54
April 23		
BCN	eP	12 29 03
	e(PP)	33 00
BUT	eP	12 28 26
COL	iP	12 25 20
	i(PcP)	26 52
EUR	eP	12 28 41
	ipP	28 56
FGU	e(P)	12 29 02
	epP	29 13
	e	35 01
GCA	eP	12 29 07
	epP	29 22
	e(PP)	32 57
RCD	eP	12 29 08
SJP	i(P)	12 33 11
TUC	eP	12 29 36
	epP	29 53
	e	30 53
TUT	eP	12 29 38
	i	30 51
April 23		
COL	eP	14 31 13
EUR	e(P)	14 34 34
	i	34 48
April 23		
COL	iP	15 02 48
	e(pP)	02 58
EUR	eP	15 06 08
April 23		
COL	eP	16 39 42
	epP	39 53
EUR	eP	16 43 02
April 23		
BCN	eP	17 02 07
BOZ	eP	17 01 42
BUT	eP	17 01 34
COL	iP	16 58 26
	epP	58 38
	e	58 58
	eS	17 04 24
CSC	eP	17 03 57

Date and Station		Phase (GCT)
		h m s
EUR	iP	17 01 46
	epP	02 01
GCA	e(P)	17 02 14
HHM	e(P)	17 01 19
RCD	eP	17 02 15
SLC	eP	17 01 57
TUC	eP	17 02 37
	e	02 42
TUT	eP	17 02 36
April 23		
COL	iP	20 47 14
EUR	eP	20 50 41
	epP	50 53
TUC	eP	20 51 44
	epP	51 56
TUT	e(P)	20 51 44
April 23		
COL	eP	21 17 47
GUA	iP	21 25 48
April 23		
BUT	eP	22 15 33
COL	iP	22 13 11
	epP	14 46
EUR	iP	22 15 40
April 23		
EUR	iP	23 50 49
April 24		
COL	eP	01 17 38
April 24		
EUR	eP	02 31 15
April 24		
COL	iP	03 17 45
EUR	iP	03 21 06
	e(pP)	21 20
April 24		
EUR	eP	04 52 43
	ipP	52 53
April 24		
BUT	eP	05 00 08
COL	iP	04 56 56
	iS	05 00 38
EUR	iP	05 00 10
	ipP	00 25
	eS	05 52
GCA	e(P)	05 00 42

Date and Station		Phase (GCT)
		h m s
RCD	eP	05 00 48
SJP	i(P)	05 05 09
TUC	iP	05 01 12
	epP	01 26
TUT	eP	05 01 12
April 24		
COL	iP	08 29 09
	e	30 12
EUR	eP	08 33 50
April 24		
COL	iP	09 19 13
	e	19 33
April 24		
COL	iP	11 40 07
	i	40 24
April 24		
BCN	eP	12 38 31
BUT	eP	12 38 10
COL	iP	12 35 02
	i	35 25
	eS	41 02
EUR	iP	12 38 22
	i	39 39
GCA	eP	12 38 34
	e	38 48
HHM	e(P)	12 37 54
RCD	eP	12 39 48
TUC	eP	12 39 11
April 24		
COL	iP	13 23 24
EUR	iP	13 22 52
TUC	eP	13 22 48
	e	23 06
TUT	eP	13 22 49
April 24		
TUT	e(P)	14 50 39
April 24		
COL	eP	18 09 29
	e	09 41
April 24		
TUT	eP	19 37 05
April 24		
BCN	eP	21 11 02

Date and Station		Phase (GCT) h m s
TUT	eP	21 08 44
	eS	09 42
April 25		
BCN	eP	00 39 42
COL	iP	00 35 39
	i	36 06
EUR	i(P)	00 39 15
GCA	eP	00 39 44
RCD	eP	00 39 31
TUC	eP	00 39 54
	e(PcP)	40 18
TUT	e(PcP)	00 40 14
April 25		
BOZ	eP	01 16 07
COL	iP	01 19 32
	e(pP)	20 06
	ePcP	20 28
CSC	eP	01 13 56
EUR	iP	01 15 49
FGU	eP	01 15 27
GCA	e(P)	01 15 10
	ePP	16 04
SJP	e(P)	01 14 20
TUC	iP	01 14 45
TUT	eP	01 14 44
April 25		
BCN	eP	01 28 42
BOZ	eP	01 28 16
HUT	eP	01 28 05
COL	iP	01 25 04
	e(PP)	27 40
	iS	30 03
CSC	eP	01 30 45
EUR	iP	01 28 24
	ipP	28 41
	iPcP	28 56
FGU	e(P)	01 28 45
HHM	e(P)	01 27 58
RCD	eP	01 28 50
SLC	eP	01 28 34
TUC	eP	01 29 12
	epP	29 29

Date and Station		Phase (GCT) h m s
TUT	e(P)	01 29 13
April 25		
EUR	iP'	02 50 07
April 25		
COL	iP	05 10 26
	i	10 57
EUR	eP	05 13 47
	i	14 02
April 25		
FGU	eP	07 50 04
	e	52 33
April 25		
EUR	iP	09 51 07
FGU	eP	09 50 40
RCD	eP	09 50 23
SJP	iP	09 44 39
TUC	eP	09 49 14
April 25		
BCN	eP	11 29 44
COL	eP	11 30 09
EUR	iP	11 29 52
	ipP	30 07
	ePP	33 45
	ePKKP	47 08
TUC	eP	11 29 47
	eS	40 51
	ePKKP	47 22
TUT	eP	11 29 47
April 25		
COL	iP	12 18 45
	e	18 50
EUR	e(P)	12 19 16
April 25		
COL	eP	13 59 32
	e	14 01 09
EUR	e(P)	14 06 31
April 25		
COL	e(P)	15 04 41
April 25		
COL	eP	15 56 43
April 25		
BCN	eP	17 04 01
April 25		
FGU	eP	19 49 55
April 25		
COL	eP	20 59 29

Date and Station		Phase (GCT) h m s
April 25		
COL	iP	21 27 21
April 25		
BCN	eP	21 59 30
April 25		
COL	iP	22 24 04
April 25		
FGU	eP	22 49 01
April 25		
COL	iP	23 50 56
	ePP	53 32
EUR	iP	23 53 34
FGU	eP	23 53 48
April 26		
COL	iP	00 45 35
EUR	eP	00 49 08
April 26		
EUR	eP'	02 40 17
April 26		
COL	iP	03 48 59
EUR	iP	03 48 30
April 26		
TUC	eP	04 28 49
TUT	e(P)	04 29 02
April 26		
COL	eP	05 18 52
EUR	e(P)	05 18 24
April 26		
COL	iP	05 34 38
	i	35 33
TUC	eP	05 33 14
April 26		
COL	iP	06 13 08
EUR	eP	06 17 53
April 26		
COL	iP	06 32 50
	ipP	33 09
EUR	eP	06 33 51
	ipP	34 03
GUA	iP	06 24 57
	ipP	25 06
	eS	28 50
April 26		
COL	iP	07 24 17
	i	25 24

Date and Station		Phase (GCT) h m s
April 26		
COL	eP	07 34 51
EUR	iP	07 34 30
TUC	iP	07 34 30
	epP	36 39
TUT	eP	07 34 31
April 26		
BCN	eP	07 50 02
BUT	eP	07 49 32
	eS	58 06
COL	iP	07 46 23
	iS	52 22
CSC	eP	07 51 51
EUR	iP	07 49 43
	ipP	49 59
	eP'P'	08 17 58
GCA	e(P)	07 49 58
HHM	e(P)	07 49 15
KIP	iP	07 47 40
	ipP	47 56
RCD	eP	07 50 04
	ePP	53 01
SLC	eP	07 49 44
SIT	eP	07 47 27
	eS	54 03
TUC	iP	07 50 32
	ePP	53 22
	ePPP	55 07
	eS	08 00 05
	ePKKP	08 58
TUT	eP	07 50 32
WAS	eP	07 51 43
April 26		
EUR	e(P)	08 31 59
April 26		
COL	iP	11 58 25
	e	58 53
April 26		
COL	eP	12 29 36
	ePcP	30 12
EUR	iP	12 25 47
	iPcP	26 05
TUC	eP	12 24 37
April 26		
COL	iP	12 49 10
	e	49 47

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Date and Station		Phase (GCT)
		h m s
EUR	eP	12 49 52
April 26		
COL	e(P)	13 07 43
EUR	eP	13 02 40
	i	02 55
April 26		
EUR	eP	13 28 08
April 26		
COL	eP	17 06 11
April 26		
BOZ	eP	19 43 13
BCN	eP	19 43 37
	e	50 03
BUT	eP	19 43 05
COL	iP	19 40 00
	epP	40 13
	eS	46 00
EUR	iP	19 43 19
	ipP	43 34
HHM	e(P)	19 43 14
TUC	eP	19 44 04
TUT	e(P)	19 44 08
April 26		
EUR	e(P)	20 19 45
April 26		
BCN	iP	23 51 30
April 27		
COL	iP	00 38 13
	epP	40 10
EUR	iP	00 37 50
TUC	iP	00 37 49
	epP	39 41
TUT	eP	00 37 50
April 27		
GUA	iP	05 28 33
April 27		
COL	iP	06 37 37
	e	43 14
EUR	iP	06 37 18
TUT	eP	06 37 20
April 27		
COL	iP	07 16 16
April 27		
COL	iP	09 03 30
EUR	eP	09 03 59

Date and Station		Phase (GCT)
		h m s
April 27		
COL	e(P)	09 46 21
April 27		
BCN	eP	11 15 16
	ePP	17 53
COL	eP	11 11 36
	eS	15 25
EUR	iP	11 14 55
	i	15 09
TUC	eP	11 15 55
TUT	eP	11 15 55
April 27		
COL	eP	13 06 08
	e	06 49
April 27		
COL	eP	14 13 00
	e	13 55
April 27		
COL	eP	16 09 46
April 27		
COL	iP	16 41 55
April 27		
BCN	iP	18 02 24
BOZ	eP	18 03 00
COL	eP	18 05 26
	i(pP)	06 06
	eS	15 06
EUR	iP	18 02 46
FGU	iP	18 02 30
	epP	02 57
GCA	eP	18 02 18
RCD	iP	18 02 36
SJP	iP	17 58 38
TUC	iP	18 01 52
TUT	eP	18 01 51
UKI	eP	18 03 13
April 27		
COL	iP	20 33 23
EUR	iP	20 36 20
	i	36 32
April 27		
COL	e(P)	23 24 13
April 28		
BCN	eP	01 04 12
EUR	eP	01 04 11
	i	04 29

Date and Station		Phase (GCT)
		h m s
FGU	eP	01 05 27
	e L	08 19
GCA	eP	01 05 44
	e(S)	07 08
SLC	eP	01 04 30
TUC	e(P)	01 05 10
	e L	07 54
TUT	eP	01 05 22
UKI	eP	01 03 10
April 28		
COL	iP	02 28 19
	e	28 30
April 28		
EUR	eP	03 17 37
April 28		
COL	iP	06 09 25
EUR	eP	06 08 55
April 28		
EUR	iP	06 31 55
	i(S)	32 18
	iL	33 35
FGU	eP	06 32 37
	eL	35 13
GCA	iP	06 31 40
	e(S)	32 01
	eL	32 46
TUC	iP	06 31 27
	e(S)	31 47
	eL	32 38
TUT	eP	06 31 27
	eL	32 38
April 28		
EUR	eP	08 40 00
April 28		
BUT	eP	08 55 22
EUR	iP	08 54 34
GCA	iP	08 54 09
RCD	eP	08 54 18
SJP	iP	08 50 24
TUC	iP	08 53 45
TUT	eP	08 53 45
April 28		
EUR	eP	09 44 23
FGU	eP	09 44 20
	i	45 10

Date and Station		Phase (GCT)
		h m s
April 28		
EUR	e(P)	10 40 43
FGU	e(P)	10 40 07
	eS	40 32
April 28		
EUR	eP	13 16 45
April 28		
EUR	eP	14 07 11
	i	07 27
	iL	08 31
UKI	eP	14 06 43
April 28		
COL	iP	14 17 07
	i	17 42
EUR	iP	14 13 10
April 28		
COL	eP	15 29 34
April 28		
COL	iP	16 38 21
April 28		
COL	iP	17 03 30
FGU	eP	17 07 23
April 28		
EUR	eP	19 00 49
GCA	eP	19 00 30
April 28		
COL	iP	19 16 06
April 28		
EUR	iP	20 33 33
April 28		
COL	iP	20 48 06
EUR	iP	20 47 48
TUT	e(P)	20 47 51
April 28		
COL	iP	22 23 10
EUR	iP	22 25 15
April 28		
FGU	eP	22 25 35
	e	26 26
April 28		
FGU	eP	23 04 41
April 29		
EUR	eP	00 49 32
FGU	eP	00 49 43
April 29		
FGU	eP	02 47 38
April 29		
COL	iP	03 00 45

Date and Station		Phase (GCT)
April 29		h m s
COL	iP	04 05 23
EUR	eP	04 04 47
April 29		
COL	iP	05 14 46
	i	14 57
April 29		
COL	iP	05 34 13
April 29		
COL	iP	06 03 54
April 29		
COL	eP'	07 03 16
EUR	eP'	07 03 32
SJP	eP'	07 03 49
April 29		
COL	eP	08 48 16
April 29		
BOZ	eP	09 22 34
	eS	24 51
	eL	27 35
BCN	iP	09 22 10
	e L	25 25
BUT	iP	09 22 21
	eS	24 46
	e	34 08
COL	iP	09 25 11
	iPcP	28 33
	i	28 41
	iS	29 56
CSC	eP	09 26 48
EUR	iP	09 21 39
FGU	iP	09 22 44
	iS	24 33
GCA	eP	09 22 36
	eS	23 59
HON	e(P)	09 25 58
	eS	31 26
	iL	34 30
HHM	i(P)	09 22 25
	i(S)	25 14
KIP	eP	09 26 01
SLC	eP	09 22 20
	e L	26 04
	e	28 36
SJP	iP	09 29 15
	i	29 21
SIT	eP	09 23 32
	eS	26 24

Date and Station		Phase (GCT)
		h m s
TUC	iP	09 23 15
	e	24 17
TUT	iP	09 23 16
	i	24 29
UKI	iP	09 20 23
	eS	21 28
WAS	e(P)	09 26 51
	eL	35 07
April 29		
COL	iP	09 37 00
	i	37 08
	e	38 52
EUR	iP	09 39 10
SJP	e(P)	39 39
	i	39 43
TUT	eP	09 39 46
April 29		
COL	iP	10 55 45
	ePcP	56 30
EUR	eP	10 58 47
FGU	eP	10 58 50
April 29		
BCN	eP	11 11 46
	e(S)	13 34
COL	e(P)	11 16 34
EUR	iP	11 12 38
FGU	e(P)	11 13 07
	e(S)	15 36
GCA	e(P)	11 11 51
	eS	14 19
TUC	eP	11 11 15
	i	11 25
	i(S)	12 27
TUT	e(P)	11 11 18
	i(S)	12 31
April 29		
BCN	eP	11 53 01
BUT	eP	11 53 14
COL	eP	11 56 05
EUR	e(P)	11 52 29
TUC	eP	11 54 05
TUT	e(P)	11 54 10
April 29		
EUR	eP	12 46 15
FGU	eP	12 46 10

Date and Station		Phase (GCT)
April 29		h m s
EUR	eP	15 31 41
April 29		
COL	eP	16 23 19
EUR	eP	16 19 43
TUT	eP	16 21 32
April 29		
EUR	eP	16 53 44
TUC	eP	16 55 26
TUT	e(P)	16 55 21
April 29		
BHP	iP	17 12 54
	i	12 58
COL	iP	17 21 14
	e	21 53
EUR	iP	17 17 22
April 29		
COL	eP	19 36 23
April 29		
COL	iP	20 03 19
	e	04 41
April 29		
COL	iP	21 25 40
EUR	iP	21 29 03
FGU	e(P)	21 29 07
April 29		
COL	iP	23 36 15
	e	36 44
EUR	iP	23 39 42
FGU	eP	23 39 34
	e	40 05
April 30		
BOZ	eP'	00 30 04
BUT	eP'	00 30 03
EUR	eP'	00 29 47
SLC	eP'	00 29 56
SJP	eP'	00 30 13
April 30		
EUR	eP	01 40 12
GCA	eP	01 41 08
TUC	eP	01 41 50
April 30		
COL	eP	03 02 49

Date and Station		Phase (GCT)
April 30		h m s
EUR	eP	03 27 51
April 30		
COL	iP	04 54 22
EUR	eP	04 47 28
FGU	eP	04 48 34
GCA	eP	04 48 28
RCD	eP	04 49 17
TUC	eP	04 49 05
TUT	eP	04 49 06
April 30		
EUR	eP	05 45 15
April 30		
BCN	eP	07 43 41
BUT	eP	07 42 53
COL	iP	07 43 12
	e(pP)	44 25
	ePP	45 33
CSC	eP	07 41 25
EUR	iP	07 43 38
FGU	iP	07 43 03
GCA	eP	07 42 32
HHM	e(P)	07 42 46
RCD	eP	07 42 21
SLC	eP	07 43 14
SJP	eP	07 41 56
TUC	iP	07 43 53
	eS	52 02
	eL	08 01 32
TUT	eP	07 43 52
April 30		
EUR	e(P)	09 56 03
April 30		
COL	iP	10 45 27
EUR	eP	10 48 47
	i(PP)	49 02
April 30		
COL	iP	11 08 02
EUR	iP	11 11 22
FGU	eP	11 11 44

Date and Station		Phase (GCT)
April 30		h m s
BCN	eP	11 26 13
BUT	eP	11 25 55
COL	iP	11 22 43
	epP	22 57
	ePP	25 29
	iS	28 40
EUR	eP	11 26 03
	ipP	26 18
FGU	eP	11 26 20
GCA	e(P)	11 26 15
	epP	26 30
HHM	e(P)	11 25 35
RCD	eP	11 26 24
TUC	eP	11 26 53
	eS	36 02
TUT	eP	11 26 53
April 30		
EUR	eP	12 18 52
April 30		
COL	eP	13 38 52
EUR	eP	13 37 36
April 30		
EUR	eP	13 56 51
April 30		
BCN	eP	14 16 35
BUT	eP	14 16 50
COL	eP	14 19 38
	e	22 57
EUR	eP	14 16 05
GCA	eP	14 17 03
	e	20 05
RCD	eP	14 18 06
TUC	eP	14 17 47
TUT	eP	14 17 46
April 30		
BCN	eP	15 00 00
BOZ	eP	15 00 42
BUT	eP	15 00 38
	ePP	03 43
COL	iP	15 00 23
	eS	10 56
	eP'P'	27 01

Date and Station		Phase (GCT)
		h m s
EUR	iP	15 00 06
	ipP	00 16
	ePP	03 05
	eP'P'	27 25
FGU	eP	15 00 33
	e	02 21
GCA	eP	15 00 16
HHM	e(P)	15 00 44
RCD	eP	15 01 02
SLC	eP	15 00 27
TUC	eP	15 00 10
TUT	e(P)	15 00 08
April 30		
CSC	eP	16 27 12
April 30		
BCN	eP	17 33 17
BOZ	eP	17 33 44
COL	eP	17 36 25
	ePP	37 13
	ePcP	39 38
EUR	eP	17 32 43
FGU	eP	17 33 52
	e	33 57
HHM	e(P)	17 33 38
	e L	37 37
RCD	eP	17 34 49
TUC	eP	17 34 24
	i	34 29
TUT	eP	17 34 24
April 30		
BCN	eP	18 37 55
BUT	eP	18 38 10
COL	eP	18 40 58
	ePcP	44 20
EUR	eP	18 37 27
FGU	e(P)	18 38 33
HHM	i(P)	18 38 15
RCD	eP	18 39 26
TUC	e(P)	18 39 08
TUT	eP	18 39 03
April 30		
COL	eP	20 03 56

Date and Station		Phase (GCT)
April 30		h m s
COL	iP	19 55 19
April 30		
COL	eP	21 54 36
EUR	eP	21 57 31
April 30		
COL	iP	23 01 21
	e	01 30
GUA	iP	22 54 41
April 30		
COL	e(P)	23 59 32

Date and Station		Phase (GCT)
		h m s

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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							
April		April		April			
BOZ		SJP		TUC (Con't.)			
11	19.2	8	03.8	18	11.0		
28	22.1	11	00.6	19	05.1		
		12	13.6		05.6		
April			13.7		11.0		
COL			17.0		11.2		
1	20.8	20	03.9	20	01.8		
2	22.1	21	05.2		07.4		
6	13.3		05.4		12.2		
8	04.6	22	05.2	21	10.0		
9	21.3		05.4		11.4		
22	18.1	23	03.4	22	03.6		
		25	22.2	23	02.5		
April		26	03.5		10.9		
EUR				24	07.4		
1	03.2	April		25	09.2		
	21.5	TUC		27	06.6		
2	10.0	1	12.7		11.0		
4	23.4		13.3	28	11.8		
7	08.5		21.5	29	08.5		
	22.1	2	02.7		09.3		
	23.9		14.0		20.0		
10	14.8		18.8	30	10.8		
11	16.9		19.5		19.1		
	18.0	3	02.9				
	18.4		08.6	April			
14	22.8	4	07.2	TUT			
15	03.0	5	06.3	6	20.0		
16	10.8	6	06.4	10	21.9		
	11.0		10.2	11	20.0		
17	04.1	7	12.0		22.9		
18	05.2	8	00.8	20	17.0		
22	00.7		11.8	21	21.9		
27	11.3		23.3	22	18.6		
28	04.0	9	09.0		21.0		
			14.5	25	17.4		
April			19.5	26	21.0		
FGU		10	03.7				
1	09.1		04.2				
	23.1		05.2				
6	15.7		09.5				
11	08.9	11	05.4				
14	12.3		11.0				
15	09.1	12	10.0				
18	23.7		10.9				
21	11.8	13	06.4				
23	6.7		09.0				
	10.3		11.7				
29	10.4	14	08.8				
	10.4		09.4				
	13.6		12.2				
	14.1		12.7				
30	22.9	15	00.7				
			09.6				
April			10.3				
GCA			12.0				
8	19.5	16	06.9				
14	22.4		12.2				
	23.4		16.3				
17	09.6		17.1				
23	06.7	17	03.5				
25	21.1	18	07.0				
			08.7				

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