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February, 1962

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COAST & GEODETIC SURVEY
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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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1962

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

Albuquerque, New Mexico (ALQ)
**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)
**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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Feb.	h m s	°	°	
1	00 39 54.6	31.7 S.	177.3 W.	Kermadec Islands region. h about 30 km.
1	06 37 57.5	35.0 N.	120.6 W.	Near coast of southern California. Felt in coastal regions of San Luis Obispo and Santa Barbara Counties. h about 25 km. Mag. 4½.
1	11 25 16.6	3.7 N.	125.6 E.	Sangihe Islands region. h about 37 km.
1	18 06 49.8	26.1 N.	109.2 W.	Gulf of California. h about 45 km.
2	03 32 48.3	5.4 S.	147.3 E.	Bismarck Sea. h about 161 km.
2	05 41 38.7	45.7 N.	151.6 E.	Kurile Islands. h about 37 km.
2	06 43 28.8	36.3 N.	89.4 W.	Northwestern Tennessee. Felt in 4 states. h about 25 km.
2	07 59 57.8	49.7 N.	78.1 E.	Kazakh S.S.R. h about 0 km.
2	17 20 12.7	43.8 N.	148.4 E.	Kurile Islands. h about 38 km.
2	23 03 58.9	18.2 N.	104.9 W.	Off coast of Colima, Mexico. h about 17 km.
3	00 37 57.4	1.3 S.	137.5 E.	North of New Guinea. h about 33 km.
3	11 36 17.6	17.5 S.	66.6 E.	Mascarene Islands region. h about 33 km.
3	13 25 12.2	21.2 S.	175.5 W.	Tonga Islands region. h about 25 km.
3	20 02 25.0	12.9 S.	79.9 W.	Off coast of Peru. h about 33 km.
3	21 38 17.7	6.8 N.	73.0 W.	Northern Colombia. h about 160 km.
4	01 02 34.6	29.1 S.	177.2 W.	Kermadec Islands. h about 43 km.
4	02 54 44.3	4.6 S.	118.9 E.	Celebes. h about 89 km.
4	12 59 51.8	5.3 S.	151.6 E.	New Britain. Felt at Rabaul. h about 81 km.
4	16 16 40.9	5.7 S.	152.1 E.	Near north coast of New Guinea. h about 85 km.
4	17 47 45.2	7.3 N.	82.0 W.	South of Panama. h about 89 km.
4	20 40 05.8	3.5 N.	82.8 W.	Off coast of Ecuador. h about 33 km.
4	21 29 37.2	0.5 S.	20.2 W.	Atlantic Ocean. h about 33 km.
5	01 07 40.7	5.9 S.	151.4 E.	New Britain. h about 46 km.
5	02 30 24.9	14.0 S.	168.0 E.	New Hebrides Islands region. Felt at Santo. h about 91 km.
5	14 45 51.1	38.2 N.	107.6 W.	Southwestern Colorado. Felt at Cimarron, Montrose and Ridgeway. h about 25 km.
5	18 45 03.2	32.2 N.	140.1 E.	South of Honshu, Japan. h about 142 km.
5	22 55 51.9	35.9 N.	139.1 E.	Central Honshu, Japan. Felt. h about 136 km.
6	01 55 50.4	29.5 N.	130.4 E.	Ryukyu Islands region. h about 40 km.
6	02 58 23.5	14.6 N.	90.8 W.	Guatemala. h about 33 km.
6	03 32 50.3	37.8 N.	140.4 E.	Northern Honshu, Japan. h about 372 km.
6	04 40 57.5	56.8 N.	156.0 W.	Kodiak Island region, Alaska. h about 80 km.
6	07 47 28.4	24.2 N.	124.7 E.	Ryukyu Islands. h about 33 km.
6	08 10 53.8	23.1 S.	66.7 W.	Jujuy Province, Argentina. h about 234 km.
7	03 22 35.0	37.4 N.	97.0 E.	Tsinghai Province, China. h about 33 km.
7	07 35 55.3	20.7 S.	69.2 W.	Chile-Bolivia border. h about 108 km.
8	08 28 26.8	1.7 S.	84.6 W.	Off coast of Ecuador. h about 45 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Feb.	h m s	°	°	
8	11 49 11.6	3.2 S.	141.1 E.	New Guinea. h about 40 km.
8	16 42 04.4	19.2 S.	169.1 E.	New Hebrides Islands region. Felt at Santo. h about 43 km.
8	18 00 00.164			37°07'38" N., 116°03'09" W. Nevada Test Site. STILLWATER. Shot elevation = 1095.8 meters (AEC).
8	19 40 29.7	0.6 N.	98.6 E.	Sumatra. h about 48 km.
8	22 50 17.3	3.5 S.	141.0 E.	Central New Guinea. h about 160 km.
9	00 14 13.9	11.9 S.	166.5 E.	Santa Cruz Islands. h about 111 km.
9	01 01 37.0	34.5 N.	140.9 E.	Central Honshu, Japan. h about 25 km.
9	12 02 33.5	24.2 S.	179.5 E.	Kermadec Islands region. h about 541 km.
9	16 30 00.125			37°02'37" N., 116°02'20" W. Nevada Test Site. ARMADILLO. Shot elevation = 982.7 meters (AEC).
9	18 14 32.7	51.2 N.	178.4 W.	Andreanof Islands, Aleutian Islands. h about 25 km.
9	21 51 22.3	0.1 N.	123.8 E.	Celebes region. h about 121 km.
10	04 19 21.2	21.1 S.	68.6 W.	Chile-Bolivia border. h about 161 km.
10	06 43 25.0	5.9 S.	152.1 E.	New Ireland region. h about 40 km.
10	12 58 18.3	56.4 S.	25.6 W.	Sandwich Islands region. h about 33 km.
10	19 31 55.7	17.9 N.	62.2 W.	Leeward Islands. h about 71 km.
10	19 46 07.4	33.1 S.	69.8 W.	Chile-Argentina border. h about 123 km.
11	02 42 36.5	29.6 N.	139.1 E.	South of Honshu, Japan. h about 401 km. Mag. 6¼.
11	10 01 24.8	52.0 N.	168.0 W.	Fox Islands, Aleutian Islands. h about 50 km.
11	11 06 46.7	0.6 S.	67.3 E.	Maldive Islands region. h about 33 km.
11	13 57 00.4	4.3 S.	153.5 E.	New Ireland region. h about 120 km.
11	18 55 32.8	4.5 S.	153.5 E.	New Ireland region. Felt. h about 111 km. Mag. 6 (Brk).
11	19 48 41.6	4.6 S.	153.6 E.	New Ireland region. h about 107 km.
11	22 41 18.8	4.4 S.	153.5 E.	New Ireland region. Felt at Rabaul. h about 120 km.
12	04 56 13.5	4.5 S.	153.8 E.	New Ireland region. h about 107 km.
12	06 45 00.4	2.0 N.	128.1 E.	Halmahera. h about 169 km.
12	11 57 53.3	44.0 N.	146.5 E.	Near coast of Hokkaido, Japan. h about 113 km.
12	13 44 41.8	4.3 S.	153.6 E.	New Ireland region. h about 104 km.
12	17 26 02.6	34.0 N.	137.6 E.	South of Honshu, Japan. h about 300 km.
12	22 05 34.9	12.6 N.	139.8 E.	Mariana Islands region. h about 73 km.
12	23 24 56.0	26.6 N.	141.0 E.	Bonin Islands region. h about 140 km.
13	00 46 20.5	54.3 N.	35.2 W.	North Atlantic Ocean. h about 33 km.
13	02 22 17.4	49.1 N.	156.2 E.	Kurile Islands. h about 46 km.
13	07 42 30.6	33.6 N.	94.8 E.	Tsinghai Province, China. h about 33 km.
13	20 33 42.6	42.7 N.	145.3 E.	Near coast of Hokkaido, Japan. h about 105 km.
14	01 53 33.9	4.3 S.	153.5 E.	New Ireland region. h about 119 km.
14	02 09 28.5	6.2 N.	126.8 E.	Near coast of Mindanao, Philippine Islands. h about 101 km.
14	02 47 33.1	0.2 N.	123.8 E.	Northern Celebes. h about 88 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Feb.	h m s	°	°	
14	06 36 04.6	37.8 S.	72.5 W.	Near coast of Chile. Moderate property damage in Central Chile. h about 45 km. Mag. 7¼.
14	07 08 18.0	38.1 S.	73.0 W.	Near coast of Chile. h about 20 km.
14	07 38 09.9	4.2 S.	153.4 E.	New Ireland region. Felt at Rabaul. h about 137 km.
14	08 11 59.9	38.1 S.	74.9 W.	Near coast of Chile. h about 33 km.
14	08 28 59.5	38.1 S.	73.3 W.	Near coast of Chile. h about 33 km.
14	11 43 38.8	5.7 N.	126.0 E.	Near coast of Mindanao, Philippine Islands. h about 150 km.
15	00 59 45.1	8.9 S.	147.7 E.	Eastern tip of New Guinea. h about 60 km.
15	07 12 42.9	36.9 N.	112.4 W.	Arizona-Utah border. Felt at Kanab, Orderville and Rockville, Utah. h about 26 km.
15	09 03 38.6	37.9 S.	74.1 W.	Near coast of Chile. h about 40 km.
15	09 06 45.1	37.0 N.	112.9 W.	Arizona-Utah border. h about 21 km.
15	09 56 03.1	48.4 S.	31.1 E.	Prince Edward Islands region. h about 33 km.
15	14 11 08.7	17.5 S.	178.3 W.	Fiji Islands. h about 600 km.
15	15 25 29.5	4.4 S.	153.8 E.	New Ireland region. Felt at Namatanai and Rabaul. h about 109 km.
15	15 29 55.6	23.7 S.	179.7 W.	Fiji Islands region. h about 555 km.
15	16 41 37.4	4.5 S.	153.8 E.	New Ireland region. h about 104 km.
15	18 00 00.100			37°13'35" N., 116°03'34" W. Nevada Test Site. HARDHAT. Shot elevation = 1269.2 meters (AEC).
15	20 28 47.2	38.1 S.	73.2 W.	Near coast of Chile. h about 40 km.
15	20 56 03.4	24.0 S.	176.6 W.	Tonga Islands region. h about 33 km.
15	23 40 39.4	31.9 N.	137.9 E.	South of Honshu, Japan. h about 257 km.
16	02 55 06.0	38.0 S.	72.9 W.	Near coast of Chile. h about 31 km.
16	15 54 37.2	49.4 N.	156.1 E.	Kurile Islands. h about 45 km.
16	19 08 57.2	15.6 S.	168.1 E.	New Hebrides Islands. h about 183 km.
17	03 29 26.9	38.6 N.	111.6 W.	Southern Utah. h about 33 km.
17	03 43 45.1	61.6 S.	162.9 E.	Macquarie Island region. h about 25 km.
17	11 07 03.8	2.9 S.	130.2 E.	Ceram. h about 46 km.
17	18 16 06.2	38.0 S.	73.5 W.	Near coast of Chile. h about 40 km.
17	22 01 56.3	49.2 N.	156.1 E.	Kurile Islands. h about 51 km.
17	22 28 22.8	52.7 N.	169.7 W.	Fox Islands, Aleutian Islands. h about 29 km.
18	01 28 38.7	49.3 N.	156.3 E.	Kurile Islands. h about 62 km.
18	07 00 15.9	36.2 N.	9.3 E.	Tunisia. h about 33 km.
18	10 42 34.3	41.4 N.	142.4 E.	Near coast of Hokkaido, Japan. h about 56 km.
18	17 25 14.8	8.1 N.	74.8 W.	Northern Colombia. Felt at Bogota and Medellin. h about 41 km.
18	22 26 06.5	15.5 S.	166.8 E.	New Hebrides Islands. h about 45 km.
18	23 08 41.6	23.3 S.	70.0 W.	Northern Chile. h about 128 km.
18	23 25 20.8	0.7 S.	91.7 W.	Galapagos Islands. h about 33 km.
18	23 59 50.9	13.1 S.	165.8 E.	New Hebrides Islands. h about 54 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Feb.	h m s	°	°	
19	02 58 46.9	52.3 N.	158.4 E.	Near east coast of Kamchatka. h about 32 km.
19	04 57 40.2	4.2 S.	153.3 E.	New Ireland region. Felt at Rabaul. h about 117 km.
19	05 21 48.3	59.4 S.	160.9 E.	Macquarie Island region. h about 33 km.
19	11 04 46.6	20.2 S.	175.1 W.	Tonga Islands. h about 95 km.
19	11 11 06.9	22.2 N.	94.6 E.	Burma. h about 33 km.
19	16 30 00.132			37°02'57" N., 116°01'46" W. Nevada Test Site. CHINCHILLA. Shot elevation = 1078.4 meters (AEC).
19	17 50 00.159			37°07'39" N., 116°02'13" W. Nevada Test Site. CODSAW. Shot elevation = 1073.2 meters (AEC).
19	20 16 07.0	11.9 N.	88.2 W.	Off west coast of Nicaragua. Felt in El Salvador. h about 33 km.
20	03 01 43.2	20.8 S.	68.8 W.	Chile-Bolivia border. h about 148 km.
20	05 51 06.5	16.1 S.	178.1 E.	Fiji Islands region. h about 35 km.
20	06 40 20.3	11.4 S.	166.4 E.	Santa Cruz Islands. h about 81 km.
20	09 15 58.3	6.7 N.	92.4 E.	Nicobar Islands. h about 33 km.
20	09 22 37.6	12.0 S.	165.9 E.	Santa Cruz Islands region. h about 102 km.
20	10 07 26.9	25.7 S.	178.2 E.	Fiji Islands region. h about 651 km.
20	14 11 43.6	29.4 S.	69.8 W.	Chile-Argentina border. h about 76 km.
20	16 02 13.6	6.8 N.	73.1 W.	Northern Colombia. Felt at Barinas, Venezuela. h about 150 km.
20	16 05 45.4	43.1 N.	144.8 E.	Near coast of Hokkaido, Japan. Felt. h about 56 km.
20	17 05 38.9	4.0 S.	104.2 E.	Sumatra. h about 25 km.
20	19 08 39.8	46.8 N.	152.8 E.	Kurile Islands. h about 22 km.
20	20 11 13.7	50.6 S.	110.8 E.	South of Australia. h about 31 km.
20	22 02 39.6	25.8 N.	96.8 E.	Northern Burma. h about 33 km.
21	00 06 02.4	24.8 S.	177.1 W.	Tonga Islands region. h about 38 km.
21	09 50 05.4	56.8 S.	146.7 E.	About 850 kilometers west of Macquarie Islands. h about 25 km.
21	09 53 12.2	51.2 N.	179.5 E.	Rat Islands, Aleutian Islands. h about 40 km.
21	10 01 18.5	12.1 S.	166.1 E.	Santa Cruz Islands. h about 33 km.
21	11 26 00.7	12.1 S.	166.2 E.	Santa Cruz Islands. h about 23 km.
21	17 22 10.6	16.7 N.	93.0 W.	Chiapas, Mexico. h about 202 km.
21	23 46 49.4	3.0 N.	86.5 W.	South of Panama. h about 25 km.
22	09 50 25.3	32.7 S.	179.7 W.	Kermadec Islands. h about 246 km.
22	10 35 01.4	25.6 S.	69.8 E.	About 1300 kilometers southwest of Mascarene Islands. h about 25 km.
22	16 38 01.4	29.4 N.	131.1 E.	Ryukyu Islands. h about 25 km.
22	21 55 12.7	27.8 S.	73.4 E.	About 1500 kilometers southwest of Mascarene Islands. h about 25 km.
23	11 40 49.5	6.1 S.	147.7 E.	Near coast of northeast New Guinea. Felt at Kaiapit. h about 33 km.
23	18 00 00.160			37°07'44" N., 116°02'54" W. Nevada Test Site. CIMARRON. Shot elevation = 979.9 meters (AEC).
23	18 05 29.3	4.0 S.	152.4 E.	New Ireland. h about 33 km.
23	19 29 15.1	11.1 N.	125.8 E.	Samar, Philippine Islands. h about 100 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Feb.	h m s	°	°	
23	20 00 30.4	10.9 N.	125.8 E.	Samar, Philippine Islands. h about 98 km.
23	20 21 28.6	3.8 S.	152.0 E.	New Britain. Felt at Namatanai and Rabaul. h about 25 km.
24	00 20 50.7	6.0 N.	72.7 W.	Northern Colombia. h about 213 km.
24	01 03 17.6	12.2 N.	88.8 W.	Off coast of El Salvador. Felt in southern El Salvador. h about 40 km.
24	06 05 43.4	0.7 S.	99.3 E.	Near coast of Sumatra. h about 33 km.
24	12 22 50.5	49.2 N.	156.2 E.	Kurile Islands. h about 56 km.
24	13 48 56.2	11.9 N.	121.1 E.	Near coast of Panay, Philippine Islands. h about 33 km.
24	14 27 01.4	10.7 S.	161.3 E.	Solomon Islands. h about 50 km.
24	15 10 56.0	5.6 S.	153.6 E.	New Britain. h about 25 km.
24	17 57 13.5	10.8 S.	161.6 E.	Solomon Islands. h about 25 km.
24	18 06 45.1	34.3 N.	70.1 E.	Afghanistan-Pakistan border. h about 25 km.
24	19 34 33.9	5.5 S.	146.0 E.	Near coast of northeast New Guinea. Felt at Kaiapit. h about 45 km.
25	06 05 44.8	49.3 N.	129.2 W.	Vancouver Island region. h about 25 km.
25	06 06 32.2	14.9 S.	167.5 E.	New Hebrides Islands. Felt at Santo. h about 187 km.
25	06 22 06.9	11.7 N.	120.9 E.	Mindoro, Philippine Islands. h about 25 km.
25	06 40 35.7	21.9 S.	177.6 W.	Tonga Islands. h about 434 km.
25	14 00 43.9	17.1 S.	168.4 E.	New Hebrides Islands. Felt at Port Vila. h about 24 km.
25	17 17 38.9	45.2 N.	111.2 W.	Western Montana. Felt at Bozeman. h about 25 km.
25	20 10 56.3	17.7 S.	174.1 W.	Tonga Islands. h about 60 km.
26	01 13 11.7	41.7 N.	141.9 E.	South of Hokkaido, Japan. h about 71 km.
26	02 17 38.6	9.3 S.	152.9 E.	D'Entrecasteaux Islands. h about 47 km.
26	02 30 37.6	33.0 S.	178.4 W.	Kermadec Islands. h about 25 km.
26	08 44 54.8	0.4 S.	122.2 E.	Northern Celebes. h about 80 km.
26	13 21 55.0	27.4 N.	115.1 W.	Baja California. h about 25 km.
26	15 55 43.5	44.2 N.	146.7 E.	Kurile Islands. h about 130 km.
26	16 43 25.8	13.9 S.	172.2 E.	New Hebrides Islands region. h about 33 km.
26	21 29 42.3	6.9 S.	150.5 E.	New Britain. h about 60 km.
27	00 04 43.5	6.2 S.	77.0 W.	Northern Peru. h about 61 km.
27	01 39 03.6	7.1 S.	155.2 E.	Solomon Islands. h about 25 km.
27	05 40 53.6	36.3 N.	71.3 E.	Hindu Kush. h about 111 km.
27	05 52 28.5	63.0 N.	150.0 W.	Central Alaska. h about 100 km.
27	06 34 54.7	27.6 N.	101.9 E.	Szechwan Province, China. h about 33 km.
27	08 42 56.0	19.3 N.	67.7 W.	Puerto Rico region. h about 32 km.
27	09 20 36.0	35.7 N.	70.5 E.	Afghanistan-Pakistan border. h about 122 km.
27	12 40 50.2	37.4 S.	72.5 W.	Near coast of Chile. h about 63 km. Mag. 6¼-6½.
27	14 03 31.5	18.9 S.	68.4 W.	Southern Bolivia. h about 188 km.
27	14 21 26.7	2.9 S.	129.7 E.	Ceram region. h about 69 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Feb.	h m s	°	°	
27	21 34 10.8	45.7 N.	26.4 E.	Romania. h about 146 km.
28	05 19 54.1	2.5 S.	140.5 E.	Near north coast of New Guinea. h about 25 km.
28	07 19 51.7	32.2 N.	139.6 E.	South of Honshu, Japan. h about 60 km.
28	13 44 42.0	8.9 S.	75.8 W.	Peru. h about 33 km.
28	18 04 09.0	51.6 N.	179.6 W.	Andreanof Islands, Aleutian Islands. h about 60 km.
28	18 32 12.6	19.7 S.	68.8 W.	Chile-Bolivia border. h about 143 km.
28	20 34 21.1	19.2 N.	69.3 W.	Near north coast of Dominican Republic. h about 33 km.
28	20 44 22.4	2.9 S.	140.7 E.	Near coast of New Guinea. h about 25 km.

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Date and Station		Phase (GCT) h m s
Feb. 1		
EUR	eP	00 29 26
Feb. 1		
ALQ	eP	00 53 17
BOZ	eP	00 53 29
COL	iP	00 53 34
	i	54 12
	e(PP)	58 05
EUR	iP	00 52 58
	ePKKP	01 11 02
FGU	eP	00 53 19
	ePKKP	01 10 10
GCA	eP	00 53 03
SLC	eP	00 53 13
TUT	iP	00 52 53
Feb. 1		
EUR	eP	01 24 27
Feb. 1		
BCN	e(P)	03 16 22
Feb. 1		
TUT	e(P)	03 25 09
Feb. 1		
SLC	e(P)	04 06 22
Feb. 1		
ALQ	e(P)	04 15 15
Feb. 1		
ALQ	eP	06 40 46
	eL	44 04
BCN	eP	06 39 12
EUR	eP	06 39 22
	i	39 38
	iL	40 51
GCA	eP	06 39 49
HHM	eP	06 41 21
RCD	e(P)	06 41 23
	e	41 50
SLC	eP	06 40 10
TUT	e(P)	06 40 03
	eL	43 31
Feb. 1		
BCN	eP	07 59 35
EUR	eP	07 59 38
	i	59 55
	iL	08 01 05
Feb. 1		
EUR	eP	08 33 01
UKI	e(P)	08 31 52
Feb. 1		
ALQ	iP	10 41 03
Feb. 1		
COL	iP	11 37 50
EUR	eP'	11 43 44
Feb. 1		
COL	eP	13 44 16
Feb. 1		
BOZ	e(P)	15 44 18
Feb. 1		
COL	iP	17 18 03
	i	18 20
Feb. 1		
COL	e(P)	17 47 59
Feb. 1		
ALQ	eP	18 09 05
BCN	e(P)	18 09 24
	iL	11 56
COL	eP	18 15 13
EUR	iP	18 10 15
GCA	eP	18 09 27
HHM	eP	18 11 53
SJP	e(P)	18 14 31
TUC	eP	18 08 22
	eL	10 08
TUT	eP	18 08 22
Feb. 1		
ALQ	eP	19 01 56
BCN	e(P)	19 00 38
EUR	eP	19 01 28
GCA	eP	19 00 38
Feb. 1		
EUR	e(P)	19 10 27
Feb. 1		
ALQ	eP	19 43 55
Feb. 1		
EUR	eP	20 33 42
Feb. 1		
FGU	eP	20 48 30
	eS	48 56
Feb. 1		
FGU	eP	22 09 08
Feb. 1		
SLC	e(P)	23 26 44
Feb. 2		
FGU	eP	03 08 26
	eS	09 05
Feb. 2		
HHM	e(P)	03 23 46
Feb. 2		
COL	eP	03 45 03
Feb. 2		
BCN	iP	05 52 37
BOZ	eP	05 52 09
COL	iP	05 48 53
EUR	eP	05 52 16
FGU	eP	05 52 34
HHM	iP	05 51 47
RCD	iP	05 52 43
THU	eP	05 51 11
Feb. 2		
ALQ	eP	06 46 47
BCN	e(P)	06 48 12
	iL	54 15
BOZ	eP	06 47 47
BUT	eP	06 48 02
COL	iP	06 51 42
CSC	e(P)	06 45 10
	eS	47 19
EUR	iP	06 48 19
FGU	eP	06 47 18
	e	49 58
	iL	51 57
GCA	eP	06 47 39
HHM	iP	06 48 21
	eL	53 48
RCD	eP	06 46 31
	i	46 45
	e	47 15
	eS	48 56
	eL	49 10
SLC	eP	06 47 40
TUC	eP	06 47 44
	e	49 01
Feb. 2		
ALQ	e(P)	08 13 17
BUT	iP	08 12 32
COL	iP	08 10 10
EUR	iP	08 13 03
FGU	eP	08 12 59
GCA	eP	08 13 16
HHM	iP	08 12 19
RCD	iP	08 12 44
THU	iP	08 09 11
Feb. 2		
FGU	eP	11 33 26
Feb. 2		
COL	iP	11 51 05
	i	51 28
Feb. 2		
COL	eP	12 22 47
Feb. 2		
COL	eP	13 46 52
Feb. 2		
BCN	e(P)	14 27 31
EUR	eP	14 28 15
Feb. 2		
HHM	e(P)	16 54 21
Feb. 2		
BHP	iP	17 11 53
	iS	12 02
Feb. 2		
ALQ	eP	17 32 01
BCN	eP	17 31 25
BOZ	eP	17 31 02
COL	iP	17 27 49
	ipP	27 59
EUR	iP	17 31 07
FGU	eP	17 31 28
HHM	eP	17 30 38
RCD	e(P)	17 31 50
THU	eP	17 29 59
Feb. 2		
COL	iP	17 43 52
EUR	iP	17 43 24
	i	44 15

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Date and Station		Phase	(GCT) h m s
Feb. 2			
COL		iP	18 22 08
EUR		iP	18 25 18
Feb. 2			
COL		eP	19 44 24
		i	44 36
Feb. 2			
ALQ		eP	20 12 38
Feb. 2			
BOZ		e(P)	21 32 45
Feb. 2			
BCN		e(P)	22 41 53
GCA		e(P)	22 42 40
Feb. 2			
TUC		iP	23 02 32
TUT		iP	23 02 34
Feb. 2			
ALQ		e(P)	23 06 58
BCN		iP	23 08 32
BOZ		e(P)	23 09 03
COL		iP	23 13 30
EUR		iP	23 09 09
		i	09 19
FGU		eP	23 09 08
GCA		eP	23 08 33
HHM		eP	23 10 20
SLC		e(P)	23 09 14
TUC		eP	23 07 33
		eL	11 39
TUT		iP	23 07 33
Feb. 2			
COL		iP	23 33 52
		i	34 32
EUR		eP	23 34 53
Feb. 2			
FGU		eP	23 49 05
SLC		iP	23 48 32
		e	49 03
Feb. 2			
COL		iP	23 55 22
EUR		iP	23 58 32
		ipP	58 42
Feb. 3			
BCN		e(P)	00 13 20
Feb. 3			
COL		iP	00 47 55
Feb. 3			
ALQ		eP'	00 56 06
		e	01 07 34
BHP		eP'	00 57 04
BCN		eP	00 52 10
BOZ		eP	00 52 13
COL		iP	00 50 29
		i	51 08
		e(PP)	53 56
		iS	01 00 48
CSC		eP'	00 57 10
		i	01 00 32
EUR		eP	00 51 58
		e(P')	56 14
		i(PP)	57 16
		ePKKP	01 07 52
		eP'P'	15 58
FGU		eP	00 52 23
GCA		eP'	00 55 55
		e	01 07 53
GUA		iP	00 41 45
HON		i(P)	00 48 54
HHM		eP	00 51 58
KIP		eP	00 48 49
		i	48 54
SJP		eP'	00 57 49
		ePP	01 01 32
SIT		e(P)	00 51 01
TUC		e(P)	00 57 03
Feb. 3			
COL		iP	01 28 26
Feb. 3			
COL		iP	02 37 56
Feb. 3			
COL		e(P)	02 49 25
Feb. 3			
COL		iP	05 10 59
EUR		iP	05 14 28
Feb. 3			
COL		iP	06 43 22
Feb. 3			
COL		eP	07 22 42
Feb. 3			
EUR		e(P)	07 22 12
GCA		e(P)	07 22 21
Feb. 3			
TUC		iP	08 19 17
		e	20 31
		e	21 36
TUT		iP	08 19 18
		i	20 42
Feb. 3			
COL		iP	08 28 43
EUR		eP	08 27 52
Feb. 3			
COL		e(P)	08 44 39
EUR		iP	08 48 18
		i	48 37
Feb. 3			
TUC		iP	09 05 10
TUT		eP	09 05 11
		e	06 34
Feb. 3			
BCN		iP	09 41 38
Feb. 3			
ALQ		eP	11 37 14
Feb. 3			
EUR		e(P')	11 56 34
HHM		eP'	11 56 06
RCD		e(P')	11 56 16
Feb. 3			
EUR		iP	12 00 50
Feb. 3			
ALQ		eP	13 37 53
BCN		eP	13 37 40
COL		iP	13 38 07
EUR		eP	13 37 45
GCA		e(P)	13 37 39
Feb. 3			
UKI		e(P)	16 59 53
Feb. 3			
FGU		eP	19 53 54
		eS	54 15
Feb. 3			
ALQ		iP	20 11 42
COL		iP	20 15 34
EUR		iP	20 12 46
		i	13 25
FGU		eP	20 12 33
HHM		iP	20 13 25
Feb. 3			
COL		iP	20 17 10
		i	17 20
		e	20 07
Feb. 3			
ALQ		eP	21 45 52
BHP		iP	21 39 34
		iS	41 46
BCN		eP	21 46 44
COL		eP	21 49 57
EUR		iP	21 47 02
FGU		eP	21 46 35
RCD		iP	21 46 23
SJP		eP	21 41 23
		eS	43 40
TUT		eP	21 44 59
		e	46 07
Feb. 3			
GCA		eP	21 56 29
TUT		iP	21 55 26
Feb. 3			
COL		eP	22 18 16
Feb. 3			
COL		eP	22 40 02
Feb. 3			
SLC		e(P)	23 09 50
		e	12 57
Feb. 3			
TUC		iP	23 56 50
Feb. 4			
BCN		eP	00 20 30
EUR		eP	00 20 36
Feb. 4			
COL		e(P)	01 23 22
Feb. 4			
ALQ		eP'	03 13 16
		i	13 44
BCN		iP'	03 13 34
BOZ		eP'	03 13 30
COL		iP	03 08 03

Date and Station		Phase (GCT)
		h m s
EUR	eP'	03 13 27
	e	15 05
	ePKKP	23 37
	e	26 57
FGU	eP'	03 13 35
HHM	iP'	03 13 23
RCD	iP'	03 13 40
	i	14 17
SJP	eP'	03 14 42
	e	15 41
TUC	eP'	03 13 41
TUT	eP'	03 13 40
Feb. 4		
ALQ	eP	04 39 27
Feb. 4		
FGU	eP	05 30 59
Feb. 4		
ALQ	eP	06 29 21
COL	iP	06 33 07
EUR	eP	06 30 22
FGU	eP	06 30 04
Feb. 4		
COL	iP	07 41 17
Feb. 4		
COL	eP	08 36 21
TUC	eP	08 39 30
Feb. 4		
ALQ	eP	10 47 52
COL	eP	10 48 08
EUR	eP	10 47 34
Feb. 4		
COL	iP	11 37 38
Feb. 4		
COL	e(P)	13 12 09
EUR	eP	13 13 10
GUA	eP	13 04 30
Feb. 4		
COL	iP	16 28 59
	i	31 18
EUR	iP	16 30 00
Feb. 4		
EUR	iP	16 34 44
Feb. 4		
ALQ	iP	17 54 35

Date and Station		Phase (GCT)
		h m s
BHP	iP	17 48 09
BCN	iP	17 55 26
BOZ	eP	17 56 00
BUT	eP	17 56 08
COL	iP	17 59 08
	ipP	59 33
	ePP	18 01 51
EUR	iP	17 55 49
	ipP	56 11
FGU	eP	17 55 26
GCA	eP	17 55 14
HHM	iP	17 56 26
RCD	iP	17 55 22
	e(PP)	57 07
SLC	iP	17 55 35
SJP	eP	17 52 06
THU	eP	17 58 45
TUC	iP	17 54 44
	e	55 20
TUT	iP	17 54 44
Feb. 4		
COL	iP	18 51 38
Feb. 4		
COL	e(P)	19 22 30
Feb. 4		
ALQ	eP	20 08 09
Feb. 4		
FGU	eP	20 29 54
Feb. 4		
ALQ	eP	20 47 24
BHP	iP	20 41 19
BCN	iP	20 48 09
EUR	eP	20 48 32
FGU	eP	20 48 13
HHM	eP	20 49 14
SJP	eP	20 45 02
Feb. 4		
FGU	eP	21 27 29
Feb. 4		
BHP	iP	21 35 25
BCN	eP	21 42 15

Date and Station		Phase (GCT)
		h m s
BOZ	eP	21 43 06
EUR	iP	21 42 39
FGU	eP	21 42 19
GCA	e(P)	21 42 05
SLC	eP	21 42 29
Feb. 4		
BHP	e(P)	21 39 23
BOZ	eP	21 42 40
EUR	iP	21 42 59
FGU	eP	21 42 34
GCA	eP	21 42 43
RCD	eP	21 42 14
SJP	eP	21 38 22
THU	eP	21 41 53
TUC	iP	21 42 40
	e	43 41
TUT	iP	21 42 39
Feb. 4		
BOZ	i(P)	21 46 15
EUR	iP	21 46 45
	i	47 12
TUC	e(P)	21 46 25
Feb. 4		
COL	iP	21 58 56
	e	59 13
Feb. 4		
TUC	iP	23 18 33
	i	18 38
	e	20 01
TUT	iP	23 18 35
	e	19 27
Feb. 4		
EUR	iP	23 36 58
Feb. 4		
SLC	e(P)	23 43 57
	i	44 27
Feb. 5		
COL	iP	01 20 04
EUR	eP	01 21 05
Feb. 5		
COL	i(P)	02 49 28
Feb. 5		
EUR	eP	03 33 15

Date and Station		Phase (GCT)
Feb. 5		h m s
BUT	e(P)	07 57 59
Feb. 5		
COL	iP	08 41 30
HHM	e(P)	08 45 28
Feb. 5		
ALQ	eP	14 46 43
	i	46 53
	i(S)	47 35
BCN	iP	14 47 23
	i	47 43
	i(S)	49 00
COL	eP	14 49 26
EUR	iP	14 47 30
	i	47 50
	iL	49 16
FGU	eP	14 46 38
	i(S)	47 09
SLC	iP	14 47 04
	iS	47 56
TUT	e(P)	14 49 11
Feb. 5		
ALQ	eP	17 18 30
	i	18 37
	iS	19 16
GCA	eP	17 18 54
	e	19 54
TUT	eP	17 18 05
Feb. 5		
COL	e(P)	17 33 03
HHM	iP	17 36 43
Feb. 5		
COL	eP	17 56 11
HHM	e(P)	18 00 33
Feb. 5		
HHM	eP	18 38 11
Feb. 5		
COL	iP	18 54 13
	e	54 34
EUR	iP	18 56 58
Feb. 5		
ALQ	eP	19 23 20
EUR	e(P)	19 24 11
Feb. 5		
HHM	eP	20 18 23
Feb. 5		
ALQ	eP	21 41 30
	i	42 23
	i	43 10

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Date and Station		Phase (GCT) h m s
Feb. 5		
BCN	iP	23 07 53
	epP	08 28
BOZ	iP	23 07 33
	ipP	08 06
BUT	iP	23 07 27
COL	eP	23 04 40
	i	04 42
	i	04 52
	ipP	05 15
EUR	iP	23 07 38
	ipP	08 10
GUA	iP	23 00 43
HHM	iP	23 07 14
	epP	07 48
KIP	iP	23 05 20
RCD	iP	23 08 01
	i	09 15
SLC	eP	23 07 06
SIT	iP	23 05 37
THU	iP	23 06 27
TUC	eP	23 08 18
	epP	08 52
TUT	eP	23 08 18
Feb. 6		
ALQ	eP	00 13 33
Feb. 6		
COL	eP	02 05 57
EUR	iP	02 08 39
GCA	e(P)	02 08 46
HHM	iP	02 08 18
SLC	eP	02 08 47
THU	eP	02 07 20
Feb. 6		
ALQ	eP	02 37 02
Feb. 6		
ALQ	eP	02 43 13
	i(S)	43 55
BCN	e(P)	02 44 02
EUR	iP	02 43 50
	iL	45 39
SLC	e(P)	02 43 27
TUC	eP	02 44 11
TUT	eP	02 44 07
	e	45 33

Date and Station		Phase (GCT) h m s
Feb. 6		
ALQ	iP	03 03 44
BCN	eP	03 04 32
COL	iP	03 08 48
	e	09 24
EUR	eP	03 05 00
GCA	eP	03 04 23
HHM	eP	03 05 47
SLC	eP	03 04 48
THU	eP	03 08 47
TUC	iP	03 03 48
TUT	eP	03 03 49
Feb. 6		
COL	eP	03 41 17
	e	42 58
EUR	eP	03 43 51
HHM	eP	03 43 37
	i	46 05
Feb. 6		
EUR	eP	03 46 14
Feb. 6		
ALQ	iP	04 48 24
BCN	eP	04 47 41
COL	eP	04 43 06
	i	43 09
	i	43 42
EUR	iP	04 47 13
	i	50 04
HHM	iP	04 46 30
THU	e(P)	04 47 47
TUC	iP	04 48 23
Feb. 6		
COL	e(P)	05 53 40
Feb. 6		
COL	eP	07 58 21
HHM	eP	08 00 31
Feb. 6		
ALQ	eP	08 18 21
Feb. 6		
ALQ	iP	08 21 35
EUR	eP	08 22 25
Feb. 6		
ALQ	e(P)	08 48 28

Date and Station		Phase (GCT) h m s
BCN	e(P)	08 46 12
	i	47 07
EUR	eP	08 46 40
	i	46 54
	iL	47 59
TUC	e(P)	08 48 54
TUT	eP	08 49 03
Feb. 6		
HHM	eP	10 15 18
Feb. 6		
COL	iP	12 43 14
EUR	eP	12 42 58
Feb. 6		
COL	iP	13 31 37
Feb. 6		
BOZ	e(P)	15 44 00
Feb. 6		
COL	e(P)	20 11 34
EUR	eP	20 14 31
	i	14 42
Feb. 6		
TUT	iP	21 56 51
Feb. 6		
COL	iP	22 14 14
EUR	iP	22 17 44
Feb. 6		
ALQ	eP	22 27 13
Feb. 6		
TUT	iP	22 43 48
Feb. 6		
TUT	eP	22 57 37
Feb. 7		
TUC	eP	00 39 04
Feb. 7		
EUR	eP	00 52 05
Feb. 7		
COL	iP	01 19 46
	i	20 24
EUR	iP	01 23 10
	i	23 46
Feb. 7		
COL	iP	03 33 21
Feb. 7		
ALQ	eP	04 25 05
EUR	eP	04 26 07

Date and Station		Phase (GCT) h m s
FGU	eP	04 25 51
Feb. 7		
EUR	eP	07 43 32
FGU	e(P)	07 42 57
Feb. 7		
ALQ	iP	07 46 30
BCN	iP	07 47 04
	epP	47 30
EUR	iP	07 47 23
HHM	eP	07 47 53
RCD	iP	07 47 07
	epP	47 34
SJP	iP	07 43 09
	i(pP)	43 35
	i	43 48
TUC	iP	07 46 33
TUT	iP	07 46 33
Feb. 7		
BCN	eP	09 44 21
COL	eP	09 40 41
EUR	eP	09 43 59
Feb. 7		
BCN	e(P)	13 02 25
EUR	eP	13 02 33
Feb. 7		
COL	eP	16 58 44
Feb. 7		
ALQ	eP	19 58 10
	i	58 19
	iS	58 58
TUT	eP	19 58 44
	e	59 04
Feb. 7		
BCN	e(P)	20 50 02
Feb. 7		
FGU	eP	23 16 49
Feb. 7		
FGU	eP	23 42 22
SLC	e(P)	23 41 51
Feb. 8		
COL	iP	04 14 38
EUR	iP	04 17 56

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Date and Station		Phase (GCT)
		h m s
Feb. 8		
EUR	iP	06 42 39
Feb. 8		
ALQ	iP	08 36 12
BHP	i(P)	08 30 33
	eS	32 44
COL	eP	08 40 32
EUR	iP	08 37 20
FGU	eP	08 37 02
GCA	eP	08 36 47
HHM	iP	08 38 03
RCD	i(P)	08 37 04
SJP	eP	08 34 08
TUC	eP	08 36 15
Feb. 8		
ALQ	eP'	12 07 42
COL	eP	12 01 41
	i	01 47
	i	02 15
	e	03 49
EUR	iP	12 03 06
	ePP	07 10
GUA	eP	11 53 11
	eS	56 38
	eL	58 44
HON	eP	11 59 48
HHM	eP	12 03 06
KIP	eP	11 59 47
Feb. 8		
ALQ	eP	13 35 49
Feb. 8		
ALQ	e(P)	14 03 29
	eS	07 09
Feb. 8		
COL	eP	14 37 19
	e	37 45
Feb. 8		
COL	eP	16 55 00
Feb. 8		
COL	iP	17 05 33
Feb. 8		
ALQ	eP	18 02 00
	i	02 29
	iL	04 17

Date and Station		Phase (GCT)
		h m s
COL	eP	18 06 43
EUR	iP	18 00 41
FGU	e(P)	18 01 40
GCA	eP	18 00 58
	i(S)	01 47
SLC	e(P)	18 01 27
TUC	eP	18 02 02
	eS	03 29
Feb. 8		
ALQ	e(P)	18 11 35
	eS	13 30
EUR	i(P)	18 09 43
GCA	e(P)	18 09 56
Feb. 8		
BHP	iP	18 11 18
	iS	11 54
FGU	eP	18 17 26
SJP	eP	18 14 47
Feb. 8		
EUR	eP	18 43 43
Feb. 8		
EUR	eP	19 36 01
GCA	eP	19 35 35
Feb. 8		
ALQ	eP'	19 59 39
	i	59 50
	i	20 03 21
BOZ	eP'	19 59 31
COL	eP	19 54 05
	e	57 28
EUR	eP'	19 59 35
FGU	eP'	19 59 38
	i	20 02 59
GCA	eP'	19 59 43
HHM	iP'	19 59 23
RCD	i(P')	19 59 40
Feb. 8		
COL	eP	20 22 38
Feb. 8		
COL	eP	23 02 37
Feb. 8		
BOZ	e(P)	23 13 05
COL	eP	23 13 54

Date and Station		Phase (GCT)
		h m s
EUR	eP	23 14 24
HHM	e(P)	23 14 04
Feb. 8		
EUR	eP	23 18 56
Feb. 9		
COL	eP	00 26 33
EUR	eP	00 26 53
Feb. 9		
ALQ	eP	01 14 25
COL	iP	01 10 44
	i	11 16
EUR	eP	01 13 34
FGU	e(P)	01 13 55
RCD	eP	01 13 05
	i	13 31
	i	14 45
THU	e(P)	01 12 32
Feb. 9		
COL	eP	04 26 57
Feb. 9		
GCA	e(P)	05 02 01
	e	03 43
Feb. 9		
COL	iP	05 51 42
EUR	eP	05 55 22
Feb. 9		
COL	e(P)	12 16 34
	e	17 37
Feb. 9		
EUR	eP	12 14 28
Feb. 9		
BHP	iP	13 01 01
	iS	01 05
Feb. 9		
RCD	i(P)	14 07 28
Feb. 9		
COL	e(P)	14 39 52
Feb. 9		
COL	e(P)	15 36 47
	e	37 27
Feb. 9		
ALQ	eP	16 32 01
	i	32 30
	iL	34 25
COL	eP	16 36 45
EUR	iP	16 30 42

Date and Station		Phase (GCT)
		h m s
FGU	eP	16 31 40
	e	32 03
	eL	33 22
SLC	eP	16 31 20
TUC	e(P)	16 32 01
	e	33 37
Feb. 9		
ALQ	eP	16 44 53
Feb. 9		
ALQ	eP	18 23 48
COL	iP	18 19 16
FGU	eP	18 23 06
HHM	eP	18 22 11
RCD	iP	18 23 20
SJP	iP	18 27 28
Feb. 9		
FGU	eP	19 45 21
	e	45 45
Feb. 9		
COL	iP	20 50 04
Feb. 9		
COL	eP	21 21 40
Feb. 9		
COL	eP	22 01 45
	e	04 05
FGU	eP	22 09 55
HON	iP	22 03 16
SJP	iP'	22 11 46
Feb. 9		
ALQ	iP	23 10 05
Feb. 9		
FGU	eP	23 39 35
SLC	iP	23 39 03
Feb. 10		
ALQ	eP	02 16 20
Feb. 10		
BUT	iP	02 54 07
Feb. 10		
ALQ	eP	04 29 54
	epP	30 27
EUR	eP	04 30 57
	e	31 09

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Date and Station		Phase (GCT) h m s
FGU	eP	04 30 33
	epP	31 06
HHM	eP	04 31 16
SJP	eP	04 26 34
Feb. 10		
COL	iP	06 55 48
	i	55 59
Feb. 10		
BCN	e(P)	12 25 38
Feb. 10		
ALQ	eP'	13 16 44
BCN	eP'	13 17 05
COL	eP'	13 18 06
	i	18 24
	i	18 39
	i	20 35
EUR	e(P')	13 17 12
HHM	iP'	13 17 20
SJP	eP	13 10 36
Feb. 10		
COL	iP	17 40 18
EUR	iP	17 43 38
Feb. 10		
COL	iP	18 25 31
Feb. 10		
COL	eP	19 05 11
Feb. 10		
ALQ	iP	19 39 49
	i	40 32
BHP	iP	19 35 56
BCN	iP	19 40 45
BOZ	eP	19 40 38
COL	iP	19 43 14
	i	43 40
	i	43 47
CSC	iP	19 36 55
	eS	41 10
EUR	iP	19 40 54
	ipP	41 11
FGU	eP	19 40 18
GCA	eP	19 40 25
HHM	iP	19 40 57
RCD	iP	19 39 52

Date and Station		Phase (GCT) h m s
SLC	iP	19 40 32
	ipP	40 50
SJP	iP	19 32 52
	iS	33 38
THU	eP	19 41 51
TUC	iP	19 40 15
	e	40 58
TUT	iP	19 40 15
Feb. 10		
COL	e(P)	19 56 11
Feb. 10		
ALQ	iP	19 57 42
BOZ	eP	19 58 40
EUR	iP	19 58 26
FGU	eP	19 58 16
GCA	eP	19 58 04
RCD	iP	19 58 18
SJP	eP	19 54 59
Feb. 10		
ALQ	eP	20 38 49
Feb. 10		
COL	iP	20 52 37
Feb. 10		
ALQ	eP	21 15 00
Feb. 10		
COL	iP	21 37 16
EUR	eP	21 40 53
Feb. 10		
ALQ	eP	22 34 05
	e	35 18
Feb. 11		
FGU	e(P)	01 14 49
	e	15 15
Feb. 11		
ALQ	eP	01 52 14
	eS	53 28
FGU	eP	01 51 07
	e(S)	51 29
GCA	eP	01 51 25
	eS	51 59
Feb. 11		
ALQ	iP	02 54 57
	ipP	56 30
	iPP	58 35
BCN	iP	02 55 28

Date and Station		Phase (GCT) h m s
BOZ	iP	02 54 13
	epP	55 46
	iPP	57 27
COL	iP	02 51 39
	i	52 26
	iPP	53 42
	iS	58 55
EUR	iP	02 54 14
	ipP	55 46
	iPP	57 27
	eS	03 03 49
FGU	eP	02 54 31
	epP	56 05
GCA	eP	02 54 36
	ePP	58 02
GUA	e(P)	02 46 04
	eS	48 00
HON	eP	02 51 42
HHM	iP	02 53 57
	i	54 14
KIP	iP	02 51 42
RCD	iP	02 54 39
	ipP	56 16
	iPP	58 10
	iS	03 04 42
SLC	iP	02 54 25
	ipP	55 58
	iPP	57 46
SJP	eP'	03 02 32
SIT	eP	02 52 27
THU	eP	02 53 21
	eS	03 02 14
TUC	iP	02 54 51
	epP	56 27
	iPP	58 28
TUT	iP	02 54 52
	epP	56 25
	ePP	58 29
Feb. 11		
TUC	eP	03 05 07
TUT	iP	03 05 07
Feb. 11		
FGU	e(P)	03 37 06
Feb. 11		
GCA	eP	05 50 49
Feb. 11		
ALQ	eP	08 32 00
BCN	iP	08 31 24

Date and Station		Phase (GCT) h m s
COL	eP	08 27 15
EUR	iP	08 31 03
GCA	e(P)	08 31 31
RCD	iP	08 31 26
TUC	iP	08 31 57
Feb. 11		
ALQ	eP	10 09 47
	i	11 20
BCN	iP	10 09 01
BOZ	iP	10 08 34
COL	iP	10 05 15
	i	05 35
	i	06 23
EUR	iP	10 08 38
	iPcP	10 51
FGU	eP	10 09 02
GCA	e(P)	10 09 59
HHM	iP	10 08 08
RCD	iP	10 09 09
SJP	iP	10 13 44
	epP	13 58
THU	eP	10 09 13
TUC	iP	10 09 40
Feb. 11		
EUR	e(P)	11 05 07
Feb. 11		
ALQ	iP	11 11 23
Feb. 11		
ALQ	eP	11 19 03
Feb. 11		
BCN	iP'	11 26 22
	i	26 40
EUR	e(P')	11 26 17
TUC	iP'	11 26 33
Feb. 11		
ALQ	e(P)	19 09 19
BHP	iPP	19 16 30
BCN	eP	19 08 39
	ipP	09 09
	iP'	13 01
BOZ	e(P)	19 08 58
	e	09 22

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Date and Station		Phase (GCT)
		h m s
COL	iP	19 07 37
	ipP	08 02
	i	08 28
	i	09 41
	i	10 27
	eS	17 39
	eP'P'	34 10
EUR	iP	19 08 37
	ipP	09 04
	i	09 33
	e	13 00
	ePKKP	25 46
	epPKKP	26 17
	eP'P'	34 34
FGU	eP	19 08 59
GUA	eP	19 00 00
	eS	03 40
HON	iP	19 04 49
	ipP	05 19
	iS	12 20
HHM	eP	19 08 44
KIP	iP	19 04 49
RCD	eP	19 09 19
	e	10 15
SJP	eP'	19 14 32
	e	15 42
Feb. 11		
COL	iP	20 00 47
Feb. 11		
ALQ	eP	20 55 57
Feb. 11		
COL	iP	21 38 41
Feb. 11		
COL	iP	22 53 22
Feb. 11		
ALQ	eP	23 37 49
Feb. 11		
COL	e(P)	23 44 37
	i	46 18
Feb. 12		
ALQ	eP	00 19 11
Feb. 12		
COL	eP	04 42 51
Feb. 12		
COL	iP	05 08 19
	i	08 42
EUR	eP	05 09 19
Feb. 12		
COL	e(P)	06 57 23

Date and Station		Phase (GCT)
Feb. 12		h m s
COL	iP	10 25 51
	i	26 03
	e	28 24
Feb. 12		
COL	eP	11 22 54
	i	23 05
Feb. 12		
EUR	iP	12 08 52
	i	09 19
Feb. 12		
COL	iP	13 56 46
	i	57 12
	i	57 16
EUR	eP	13 57 47
	i	58 17
Feb. 12		
COL	iP	14 50 49
	iS	51 11
Feb. 12		
COL	eP	15 08 07
Feb. 12		
HHM	iP	15 10 20
	iS	10 41
Feb. 12		
COL	iP	17 34 52
EUR	iP	17 37 41
FGU	eP	17 37 57
GUA	eP	17 30 28
Feb. 12		
COL	iP	19 31 56
Feb. 12		
EUR	eP	21 02 39
Feb. 12		
COL	iP	22 16 47
EUR	iP	22 18 40
	ipP	19 01
GUA	iP	22 06 50
	eS	07 50
	eT	11 59
Feb. 12		
TUC	eP	22 57 19
Feb. 12		
COL	eP	23 34 38
	ipP	35 10
EUR	iP	23 37 06
	ipP	37 40
FGU	eP	23 37 24
GUA	iP	23 27 58

Date and Station		Phase (GCT)
Feb. 12		h m s
COL	iP	23 47 19
	i	47 57
	i	51 03
EUR	iP	23 47 35
SLC	iP	23 47 03
Feb. 13		
ALQ	eP	00 55 29
COL	iP	00 55 17
EUR	eP	00 55 45
	e	56 51
FGU	eP	00 55 09
THU	eP	00 52 45
TUC	eP	00 56 02
TUT	iP	00 56 00
Feb. 13		
EUR	iP	02 12 34
Feb. 13		
ALQ	eP	02 33 19
COL	iP	02 28 50
EUR	iP	02 32 24
	ipP	32 36
FGU	e(P)	02 32 41
RCD	eP	02 32 50
THU	iP	02 31 23
TUC	eP	02 33 15
Feb. 13		
COL	e(P)	04 43 14
	i	43 45
Feb. 13		
TUC	eP	05 13 20
Feb. 13		
TUC	eP	05 55 05
	e	55 25
TUT	eP	05 55 06
	e	55 27
Feb. 13		
SLC	iP	06 48 42
Feb. 13		
COL	iP	07 53 39
Feb. 13		
TUC	eP	10 39 23
TUT	eP	10 39 19
Feb. 13		
COL	eP	12 25 28

Date and Station		Phase (GCT)
Feb. 13		h m s
COL	iP	13 23 25
	i	23 36
HHM	iP	13 22 37
Feb. 13		
COL	eP	18 14 07
Feb. 13		
COL	iP	20 20 02
Feb. 13		
COL	iP	20 41 29
	ipP	41 50
EUR	eP	20 44 46
THU	eP	20 43 32
Feb. 13		
SLC	iP	23 02 46
Feb. 14		
COL	iP	02 00 42
	i	00 52
	i	00 56
Feb. 14		
COL	eP	02 05 37
EUR	e(P)	02 07 06
Feb. 14		
COL	eP	02 18 06
Feb. 14		
COL	eP	02 21 45
Feb. 14		
ALQ	iP'	03 06 20
COL	eP	03 00 19
EUR	iP'	03 06 03
GUA	eP	02 52 52
Feb. 14		
COL	eP	06 50 31
Feb. 14		
ALQ	eP	06 48 03C
	iS	57 48
BHP	i(P)	06 44 14
	iS	51 08
BCN	eP	06 48 26C
	iP	48 29D
	e	48 37
BOZ	iP	06 49 01D
	i	49 35
BUT	eP	06 49 06D
	i(S)	59 35
	eL	07 06 29

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Date and Station		Phase	(GCT) h m s	
COL	iP'		06 54 44	D
	ePP		56 08	
	e		56 25	
	eS		07 03 44	
EUR	iP		06 48 43	C
	ipP		48 54	
	e(S)		59 30	
	iPKKP		07 06 06	
	eP'P'		14 34	
FGU	eP		06 48 36	D
	e(S)		58 11	
GCA	eP		06 48 24	
	eS		58 36	
GUA	eP'		06 55 32	
	ePP		59 03	
HHM	eP		06 49 14	D
	e		49 30	
	ePP		53 13	
	eSKS		59 45	
	eL		07 24 14	
HON	eP		06 49 48	
RCD	eP		06 48 40	
	i		48 53	
	i		50 10	
SJP	eP		06 45 42	C
	ipP		45 55	
	iPP		47 53	
	eS		53 03	
TUC	eP		06 47 59	D
	i		48 50	
	iPP		51 07	
	eS		57 56	
	eP'P'		07 15 05	
TUT	eP		06 48 00	D
WAS	iP		06 47 50	
	eS		58 02	
Feb. 14				
COL	eP'		07 27 02	
	eP'P'		50 11	
EUR	iP		07 21 01	
	e(P'P')		47 31	
HHM	eP		07 21 33	
RCD	eP		07 20 59	
SJP	e(P)		07 17 56	
TUC	eP		07 20 18	
Feb. 14				
COL	iP		07 58 11	
Feb. 14				
EUR	eP		08 16 47	
	ipP		16 56	

Date and Station		Phase	(GCT) h m s
Feb. 14			
ALQ	iP		08 24 00
BCN	iP		08 24 23
EUR	iP		08 24 40
	ipP		24 48
FGU	eP		08 24 33
RCD	e(P)		08 24 45
TUC	iP		08 23 57
TUT	iP		08 23 57
Feb. 14			
ALQ	iP		08 41 02
BCN	eP		08 41 24
COL	eP'		08 47 41
EUR	iP		08 41 42
	ipP		41 50
RCD	e(P)		08 40 39
	e		40 48
TUC	iP		08 41 00
TUT	iP		08 40 59
Feb. 14			
EUR	e(P)		08 58 57
FGU	e(P)		08 58 49
Feb. 14			
FGU	eP		09 41 35
Feb. 14			
EUR	iP		11 28 20
Feb. 14			
ALQ	eP'		12 02 07
COL	iP		11 55 50
	i		56 10
	ipP		56 25
SJP	eP'		12 03 35
Feb. 14			
EUR	iP		15 14 22
Feb. 14			
ALQ	eP		20 50 50
Feb. 14			
ALQ	eP		22 50 11
Feb. 14			
COL	eP		23 34 13
Feb. 14			
COL	iP		23 43 27
Feb. 15			
BCN	e(P)		00 12 31
	iS		13 25

Date and Station		Phase	(GCT) h m s
EUR	iP		00 11 45
	iS		12 07
Feb. 15			
COL	iP		01 12 26
Feb. 15			
FGU	eP		03 05 24
Feb. 15			
EUR	eP		04 41 49
Feb. 15			
EUR	eP		04 59 02
Feb. 15			
ALQ	eP		07 14 02
	iL		15 25
COL	eP		07 19 37
EUR	iP		07 13 43
	i		13 49
	iS		14 29
FGU	eP		07 13 55
	i		14 03
	i(S)		14 58
GCA	iP		07 12 56
SLC	e		07 13 56
Feb. 15			
COL	iP		08 18 01
Feb. 15			
ALQ	eP		09 08 10
	iL		09 38
BCN	iP		09 07 17
	iS		07 41
EUR	eP		09 07 40
	i		07 47
	iL		08 37
FGU	iP		09 08 00
	i		08 13
	iS		09 10
GCA	iP		09 07 05
SLC	e		09 07 55
Feb. 15			
ALQ	eP		09 15 38
FGU	e(P)		09 16 10
Feb. 15			
ALQ	iP'		10 15 40
BCN	eP'		10 15 52
BOZ	eP'		10 15 55
EUR	eP'		10 16 09

Date and Station		Phase	(GCT) h m s
FGU	eP'		10 15 47
GCA	eP'		10 15 50
SLC	iP'		10 15 57
	i		16 10
Feb. 15			
COL	e(P)		10 22 44
Feb. 15			
COL	iP		10 36 58
EUR	iP		10 40 55
Feb. 15			
COL	iP		14 22 49
	e(pP)		24 50
Feb. 15			
GUA	e(P)		15 29 58
	iP		30 01
	eS		33 41
COL	eP		15 37 34
	iP		37 36
	e		38 22
	i		42 07
	e		43 55
EUR	i(P)		15 38 42
Feb. 15			
COL	iP		15 33 20
Feb. 15			
ALQ	eP		17 16 33
	i		22 08
Feb. 15			
COL	eP		17 33 16
	e		33 28
EUR	eP		17 32 14
Feb. 15			
ALQ	iP		18 02 00
	i		02 26
	i		03 15
BCN	i(P)		18 00 29
BOZ	e(P)		18 02 06
COL	iP		18 06 42
EUR	iP		18 00 39
FGU	iP		18 01 38
	iL		03 20
GCA	iP		18 00 57
HHM	eP		18 02 46
SLC	iP		18 01 18
	i		01 33

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

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

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Date and Station		Phase (GCT)
		h m s
FGU	e(P)	17 51 39
	i	51 41
GGA	eP	17 50 57
	i	51 04
	iL	51 48
Feb. 19		
BCN	e(P)	18 01 46
EUR	iP	18 01 56
Feb. 19		
FGU	eP	18 51 48
Feb. 19		
ALQ	eP	20 22 00
BOZ	iP	20 23 34
COL	iP	20 26 55
	i	27 10
CSC	iP	20 21 12
EUR	iP	20 23 15
FGU	iP	20 22 53
	i	25 32
HHM	iP	20 24 00
THU	iP	20 26 48
	ipP	27 02
Feb. 19		
COL	iP	21 18 43
Feb. 19		
FGU	eP	23 16 03
Feb. 19		
COL	iP	23 50 02
Feb. 20		
COL	e(P)	00 13 33
EUR	eP	00 16 48
Feb. 20		
COL	e(P)	02 15 06
Feb. 20		
ALQ	eP	03 12 15
EUR	iP	03 13 07
FGU	eP	03 12 52
HHM	iP	03 13 37
RCD	e(P)	03 12 51
SJP	iP	03 08 55
Feb. 20		
COL	iP	06 03 37
	i	03 45
	i	06 21

Date and Station		Phase (GCT)
		h m s
EUR	iP	06 03 28
FGU	e(P)	06 03 55
Feb. 20		
COL	e(P)	09 29 37
EUR	eP'	09 35 01
FGU	eP'	09 35 03
RCD	eP'	09 35 14
THU	e(P)	09 28 29
	eP	28 39
Feb. 20		
COL	iP	09 34 58
Feb. 20		
COL	iP	10 19 37
	i	21 57
EUR	iP	10 19 18
FGU	e(P)	10 19 40
GUA	iP	10 15 31
	ipP	17 37
HON	iP	10 15 42
Feb. 20		
COL	eP	12 00 20
Feb. 20		
EUR	iP	14 23 51
FGU	eP	14 23 41
HHM	iP	14 24 20
	i	24 55
RCD	eP	14 23 41
Feb. 20		
EUR	eP	16 10 59
SJP	iP	16 05 19
	eS	07 38
Feb. 20		
ALQ	eP	16 17 44
BOZ	iP	16 16 46
	ipP	16 59
BUT	iP	16 16 39
COL	iP	16 13 38
	i	15 47
	iS	19 57
EUR	iP	16 16 54
	ipP	17 06
	i	17 31
FGU	eP	16 17 09
GGA	e(P)	16 17 24

Date and Station		Phase (GCT)
		h m s
HON	e(P)	16 15 03
HHM	iP	16 16 25
	ipP	16 38
	iP'P'	45 02
KIP	i(P)	16 15 03
RCD	eP	16 17 17
	ipP	17 30
THU	iP	16 15 40
	e	16 06
TUC	iP	16 17 20
Feb. 20		
COL	eP	16 45 16
Feb. 20		
FGU	e(P)	17 32 07
Feb. 20		
COL	iP	19 15 43
	i	15 59
EUR	iP	19 19 09
	i	19 23
FGU	eP	19 19 28
HHM	iP	19 18 39
RCD	iP	19 19 36
THU	eP	19 18 05
Feb. 20		
EUR	eP'	20 31 06
FGU	eP'	20 31 11
GGA	eP'	20 31 10
HHM	eP'	20 31 14
Feb. 20		
COL	iP	22 14 27
	i	14 54
EUR	iP'	22 21 24
	ePKKP	32 38
FGU	eP'	22 20 58
GUA	e(P)	22 11 10
HHM	iP'	22 20 32
THU	eP	22 14 31
Feb. 20		
TUC	iP	22 59 03
TUT	iP	22 59 03
Feb. 20		
ALQ	eP	23 24 52
GGA	eP	23 23 55
	iS	24 37

Date and Station		Phase (GCT)
Feb. 21		h m s
ALQ	eP	00 18 57
COL	iP	00 19 10
EUR	iP	00 18 39
TUC	iP	00 18 36
	e	19 03
TUT	iP	00 18 36
Feb. 21		
COL	iP	01 49 20
Feb. 21		
HHM	iP	02 22 23
Feb. 21		
EUR	eP	03 09 15
Feb. 21		
COL	iP	09 23 34
EUR	iP	09 27 02
FGU	eP	09 26 55
Feb. 21		
COL	eP	09 58 02
EUR	eP	10 01 31
FGU	eP	10 01 49
HHM	eP	10 01 00
Feb. 21		
COL	e(P)	10 13 47
EUR	eP	10 14 11
Feb. 21		
COL	eP	11 38 34
EUR	e(P)	11 38 50
	e	38 58
Feb. 21		
COL	eP	12 57 43
EUR	iP	13 01 11
	i	01 16
Feb. 21		
ALQ	eP	16 14 37
TUC	iP	16 14 07
TUT	iP	16 14 05
	i	14 25
Feb. 21		
ALQ	iP	17 26 48
BCN	iP	17 27 40
BOZ	eP	17 28 27

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

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Date and Station		Phase (GCT) h m s
EUR	iP	12 32 55
RCD	e(P)	12 33 26
Feb. 24		
FGU	eP	12 54 42
	eS	55 00
GCA	eP	12 54 59
	eS	55 37
Feb. 24		
COL	iP	14 01 03
EUR	eP'	14 07 30
Feb. 24		
COL	iP	14 39 28
EUR	iP	14 40 02
Feb. 24		
COL	eP	14 58 35
Feb. 24		
COL	iP	15 23 16
EUR	e(P)	15 24 12
Feb. 24		
COL	iP	16 34 34
EUR	iP	16 35 08
Feb. 24		
COL	eP	18 09 45
EUR	iP	18 10 18
Feb. 24		
HHM	i(P)	19 33 03
Feb. 24		
COL	iP	19 47 06
	i	47 18
EUR	eP	19 48 15
	i	48 30
GUA	eP	19 38 57
SJP	iP'	19 54 10
Feb. 24		
EUR	eP	19 53 48
Feb. 24		
COL	iP	19 57 37
Feb. 24		
HHM	e(P)	20 05 12
Feb. 24		
COL	iP	20 30 40
EUR	eP	20 31 23
HHM	e(P)	20 30 23
Feb. 24		
ALQ	eP	22 49 38
	i	49 57

Date and Station		Phase (GCT) h m s
Feb. 24		
TUC	eP	22 59 01
Feb. 24		
SLC	e(P)	23 15 35
Feb. 25		
COL	iP	06 10 09
EUR	iP	06 08 58
	i	09 10
FGU	e(P)	06 09 36
GCA	e(P)	06 09 53
HHM	eP	06 08 10
RCD	eP	06 10 04
	i	10 22
Feb. 25		
COL	eP	06 18 58
Feb. 25		
COL	eP	06 34 16
Feb. 25		
COL	eP	06 52 50
EUR	eP	06 52 21
Feb. 25		
COL	e(P)	13 06 30
EUR	iP	13 05 52
	ipP	06 13
Feb. 25		
GCA	e(P)	13 24 23
Feb. 25		
COL	eP	14 13 17
EUR	eP	14 13 44
Feb. 25		
EUR	eP	16 58 40
Feb. 25		
BOZ	iP	17 17 51
	iL	18 03
BUT	iP	17 18 00
EUR	e(P)	17 19 15
	i	19 25
	iL	20 53
FGU	eP	17 18 39
	e(S)	19 36
HHM	iP	17 18 36
	iL	19 37
RCD	eP	17 19 14
	i(S)	20 38
SLC	eP	17 18 49
Feb. 25		
COL	eP	18 59 26

Date and Station		Phase (GCT) h m s
Feb. 25		
COL	eP	19 50 48
	e	51 18
Feb. 25		
COL	iP	20 23 27
	i	23 44
EUR	eP	20 22 52
Feb. 26		
EUR	eP	00 22 10
Feb. 26		
HHM	e(P)	01 09 06
RCD	e(P)	01 10 15
Feb. 26		
ALQ	eP	01 25 23
COL	iP	01 21 21
	i	21 33
	i	22 05
EUR	eP	01 24 33
	i	24 52
	i	25 04
FGU	e(P)	01 24 50
THU	eP	01 23 12
Feb. 26		
BUT	iP	02 28 42
	iS	29 00
EUR	eP	02 31 11
Feb. 26		
COL	iP	02 30 17
	i	30 33
Feb. 26		
COL	e(P)	02 44 26
EUR	e(P)	02 43 46
Feb. 26		
EUR	e(P)	06 20 30
Feb. 26		
TUC	iP	07 14 57
	e	15 18
	e	16 17
Feb. 26		
ALQ	eP'	09 03 44
COL	eP	08 57 48
	i	57 50
EUR	eP'	09 03 28
Feb. 26		
GCA	e(P)	09 08 45
	e	10 13
Feb. 26		
COL	eP	09 21 59
	i	22 07

Date and Station		Phase (GCT) h m s
HHM	i(P)	09 20 54
Feb. 26		
RCD	i(P)	09 58 43
Feb. 26		
HHM	i(P)	10 08 08
Feb. 26		
ALQ	eP	10 13 08
EUR	iP	10 13 58
Feb. 26		
COL	e(P)	12 47 40
	iP	47 45
	i	47 57
Feb. 26		
ALQ	eP	13 24 28
	eL	27 34
BOZ	e(P)	13 26 17
COL	eP	13 29 53
EUR	eP	13 24 49
FGU	e(P)	13 25 04
HHM	eP	13 26 36
TUC	eP	13 23 25
	iL	25 07
TUT	e(P)	13 23 30
	eL	24 50
Feb. 26		
COL	iP	14 47 38
	e	47 55
Feb. 26		
COL	eP	15 52 39
EUR	iP	15 51 05
Feb. 26		
ALQ	eP	16 07 25
COL	iP	16 03 15
	i	03 26
EUR	iP	16 06 33
HHM	iP	16 06 05
THU	eP	16 05 18
Feb. 26		
EUR	eP	16 33 17
Feb. 26		
ALQ	eP	16 56 28
COL	iP	16 55 53
	i	56 29
	i	56 58

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Date and Station		Phase	(GCT) h m s
EUR		eP	16 56 02
FGU		e(P)	16 55 56
Feb. 26			
COL		iP	18 17 06
		i	17 18
EUR		eP	18 18 10
Feb. 26			
COL		eP	19 04 13
Feb. 26			
HHM		e(P)	19 30 48
Feb. 26			
HHM		e(P)	20 00 04
Feb. 26			
HHM		e(P)	20 50 49
Feb. 26			
HHM		eP	21 09 01
Feb. 26			
COL		iP	21 42 12
		e	42 22
		e	45 14
EUR		e(P)	21 43 15
Feb. 27			
ALQ		iP	00 13 30
BCN		eP	00 14 11
COL		iP	00 17 27
		i	18 16
FGU		eP	00 13 44
GCA		e(P)	00 13 37
SJP		iP	00 10 21
THU		eP	00 16 03
Feb. 27			
COL		iP	00 53 09
Feb. 27			
COL		iP	01 51 27
		i	51 45
EUR		iP	01 52 20
Feb. 27			
COL		iP	03 30 23
EUR		eP	03 33 51
Feb. 27			
COL		e(P)	05 37 13
		e	37 22
		e	38 03
Feb. 27			
COL		eP	05 52 21
THU		e(P)	05 51 42

Date and Station		Phase	(GCT) h m s
Feb. 27			
ALQ		eP	05 59 42
		iScP	06 05 35
BOZ		iP	05 58 13
COL		iP	05 53 04
		iS	53 24
EUR		iP	05 58 39
		ipP	58 59
		isP	59 09
		iPcP	06 01 56
		eScP	05 06
FGU		iP	05 58 21
		ipP	58 40
GCA		eP	05 59 33
HHM		iP	05 57 40
		e	06 05 30
RCD		iP	05 58 52
		ipP	59 23
SIT		eP	05 54 39
THU		e(P)	05 58 15
TUC		iP	06 00 12
Feb. 27			
COL		iP	06 05 39
		iS	05 58
Feb. 27			
COL		iP	06 46 25
		i	46 38
		e	48 14
EUR		e(P')	06 53 16
THU		eP	06 47 40
Feb. 27			
SIT		iP	07 03 47
Feb. 27			
ALQ		eP	08 50 10
COL		iP	08 53 57
EUR		e(P)	08 51 19
RCD		iP	08 50 18
		e	50 25
SJP		iP	08 43 24
		iS	43 46
Feb. 27			
EUR		iP	09 14 31
		i	15 21
Feb. 27			
COL		eP	09 32 07
Feb. 27			
ALQ		eP	12 52 45
BOZ		e(P)	12 53 46

Date and Station		Phase	(GCT) h m s
BUT		eP	12 53 48
COL		eP'	12 59 26
		e	59 36
EUR		iP	12 53 25
		i	53 34
		ePKKP	13 11 23
FGU		eP	12 52 49
		i	52 58
GCA		e(P)	12 53 03
HHM		iP	12 53 56
RCD		eP	12 53 22
		i	53 31
		e	53 49
SJP		eP	12 50 24
		i	50 36
		eL	58 12
TUC		iP	12 52 42
		i	52 51
Feb. 27			
ALQ		eP	14 13 51
FGU		eP	14 14 01
GCA		e(P)	14 14 19
HHM		iP	14 15 14
SJP		iP	14 10 25
Feb. 27			
COL		eP	14 31 52
Feb. 27			
ALQ		eP'	14 40 12
COL		eP	14 34 18
EUR		e(P)	14 36 06
		eP'	39 55
		ePKKP	50 52
Feb. 27			
EUR		eP	16 34 20
Feb. 27			
COL		eP	19 50 28
Feb. 27			
COL		eP	21 45 07
Feb. 27			
TUT		iP	22 32 01
Feb. 27			
COL		iP	22 46 14
		i	46 19
EUR		e(P)	22 46 01
Feb. 28			
BOZ		eP	02 23 42

Date and Station		Phase	(GCT) h m s
FGU		e(P)	02 19 10
TUC		iP	02 22 33
TUT		iP	02 22 32
		i	22 46
Feb. 28			
GCA		e(P)	03 36 08
Feb. 28			
EUR		eP	04 03 38
Feb. 28			
COL		iP	05 12 05
		e	13 06
Feb. 28			
COL		eP	05 32 26
Feb. 28			
GCA		e(P)	06 32 18
Feb. 28			
BOZ		eP	07 31 53
BUT		iP	07 31 48
COL		iP	07 29 11
EUR		iP	07 31 56
FGU		eP	07 32 14
GUA		eP	07 24 11
HHM		iP	07 31 36
THU		eP	07 30 59
Feb. 28			
COL		e(P)	07 37 51
Feb. 28			
SLC		iP	09 32 07
Feb. 28			
ALQ		e(P)	10 58 03
Feb. 28			
COL		iP	11 46 59
EUR		iP	11 46 38
Feb. 28			
COL		eP	12 32 03
Feb. 28			
COL		iP	13 01 29
		iS	01 44
EUR		eP	13 07 13
FGU		eP	13 07 23
HHM		iP	13 06 13

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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
Feb. 28			Feb. 28								
EUR	eP	13 41 52	ALQ	eP	21 40 47						
				i	40 55						
UKI	eP	13 40 48									
			Feb. 28								
Feb. 28			COL	iP	22 21 55						
ALQ	eP	13 53 53		e	24 24						
COL	iP	13 57 42	EUR	eP	22 21 25						
EUR	iP	13 54 54	Feb. 28								
			ALQ	eP	22 45 16						
FGU	eP	13 54 36									
			SJP	iP	22 41 55						
HHM	iP	13 55 29									
THU	eP	13 57 17									
Feb. 28											
EUR	iP	15 41 40									
Feb. 28											
COL	iP	18 08 50									
	i	09 06									
EUR	iP	18 12 17									
HHM	iP	18 11 48									
Feb. 28											
GCA	e(P)	18 21 41									
	eS	22 11									
Feb. 28											
ALQ	eP	18 42 37									
	ipP	43 10									
EUR	eP	18 43 33									
FGU	eP	18 43 17									
SJP	iP	18 39 15									
Feb. 28											
FGU	eP	20 25 59									
Feb. 28											
ALQ	eP	20 41 23									
BCN	iP	20 42 22									
BOZ	iP	20 42 23									
CSC	e(P)	20 38 37									
	e	41 37									
EUR	iP	20 42 35									
FGU	eP	20 41 58									
HHM	iP	20 42 44									
SLC	iP	20 42 13									
SJP	iP	20 35 10									
	iS	35 40									
Feb. 28											
COL	eP	20 56 54									
	e	58 16									

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
February	
ALQ	
2	22.0
3	09.1
	20.4
5	04.0
	22.1
6	04.1
10	17.9
13	21.3
17	21.0
18	07.8
	21.4
24	19.4
26	06.8
27	20.0
COL	
4	01.8
	02.5
	08.3
5	00.0
6	10.0
	11.7
7	04.3
	13.1
8	05.4
11	03.5
19	04.2
20	03.8
25	23.7
26	03.6
	09.5
	09.6
EUR	
2	22.7
3	09.7
	22.7
5	03.1
	07.5
9	05.0
10	01.9
11	09.9
18	07.8
20	23.4
21	22.3
22	22.1
24	23.5
FGU	
2	01.1
3	05.5
5	04.0
7	22.3
12	20.2
13	00.8
16	18.1
	23.8
17	03.5
20	23.4
24	23.5
26	18.9
28	02.1
	02.6
	14.0

Date and Station	Phase (GCT)
	h m s
FGU (Con't.)	
28	14.7
	17.4
	23.2
GCA	
1	17.7
2	01.2
	23.4
6	04.1
16	22.4
18	12.2
27	22.4
RCD	
6	18.8
8	20.4
	21.7
SJP	
9	06.8
10	15.5
11	14.0
12	01.0
13	15.8
14	10.2
	10.9
	19.4
23	03.7
25	18.0
27	19.5
TUC	
2	23.0
3	22.5
5	19.0
10	22.6
	23.0
17	16.6
23	05.5
26	03.5

Date and Station	Phase (GCT)
	h m s

Date and Station	Phase (GCT)
	h m s