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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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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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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 earthquakes 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 in the Preliminary Determination of Epicenters 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
June	h m s	°	°	
1	01 22 18.6	3.3 S.	137.7 E.	New Guinea. h about 71 km.
1	01 59 53.2	57.6 N.	150.8 W.	Kodiak Island region. h about 25 km.
1	06 48 30.6	13.0 N.	88.0 W.	Near coast of El Salvador. Felt: San Salvador. h about 80 km.
1	09 01 57.4	7.0 S.	129.1 E.	Banda Sea. h about 149 km.
1	09 29 07.4	36.7 N.	71.1 E.	Hindu Kush. h about 191 km.
1	13 07 25.4	24.0 S.	66.8 W.	Salta Province, Argentina. h about 197 km.
1	17 00 00.137			37°02'44" N., 116°02'04" W. Nevada Test Site. RACCOON. Shot elevation = 1057.9 meters (AEC).
1	17 03 00.0			RACCOON Collapse.
2	02 02 55.2	2.9 N.	97.7 W.	Galapagos Islands region. h about 33 km.
2	05 35 36.6	3.4 S.	145.3 E.	Bismarck Sea. h about 49 km.
2	09 18 47.9	5.3 S.	151.7 E.	New Britain. Felt: Rabaul. h about 57 km.
2	11 49 50.1	50.1 N.	129.2 W.	Vancouver Island region. h about 32 km.
2	12 26 11.0	49.9 N.	129.7 W.	Vancouver Island region. h about 33 km. Mag. 5¾ (Pal).
2	12 35 49.7	49.9 N.	129.6 W.	Vancouver Island region. h about 38 km.
2	17 15 13.8	29.9 N.	130.7 E.	Ryukyu Islands region. h about 54 km.
3	07 07 07.3	36.6 N.	69.7 E.	Hindu Kush. h about 182 km.
3	09 00 23.1	15.0 S.	167.3 E.	New Hebrides Islands. h about 160 km.
3	10 13 54.9	49.4 N.	156.4 E.	Kurile Islands region. h about 86 km.
3	13 42 30.5	6.4 S.	148.0 E.	New Britain region. h about 62 km.
3	14 25 45.3	23.5 S.	179.8 W.	Fiji Islands region. h about 493 km.
3	15 02 26.4	22.3 N.	45.1 W.	North Atlantic Ocean. h about 33 km. Mag. 6 (Brk), 5-5¼ (Pal).
3	17 31 56.8	17.7 N.	61.6 W.	Leeward Islands. h about 52 km.
3	19 18 52.0	38.0 N.	113.0 W.	Southern Utah. h about 33 km.
3	23 43 43.8	49.1 N.	28.4 W.	North Atlantic Ocean. h about 33 km.
4	05 31 26.8	42.4 N.	15.8 E.	Adriatic Sea. h about 33 km.
4	15 21 55.3	30.0 N.	70.0 E.	Central West Pakistan. h about 33 km.
4	16 53 11.4	16.7 S.	73.2 W.	Near coast of southern Peru. h about 65 km.
4	18 50 41.5	7.7 N.	80.6 W.	Near south coast of Panama. h about 54 km.
5	10 51 19.7	38.9 N.	75.5 E.	Sinkiang Province, China. h about 140 km.
5	16 43 48.7	7.0 S.	129.2 E.	Banda Sea. h about 155 km.
5	22 29 45.0	38.0 N.	112.1 W.	Southern Utah. h about 33 km.
6	00 17 09.0	37.5 N.	113.0 W.	Southern Utah. h about 33 km.
6	02 29 04.8	8.8 S.	153.9 E.	Solomon Islands region. h about 60 km.
6	08 48 51.6	20.0 S.	169.1 E.	Loyalty Islands region. h about 17 km.
6	10 33 05.5	38.3 S.	72.8 W.	Near coast of southern Chile. h about 48 km.
6	10 57 34.0	36.0 N.	112.5 W.	Northern Arizona. h about 33 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
6	17 00 00.122			37°02'45" N., 116°02'21" W. Nevada Test Site. PACK RAT. Shot elevation = 961.0 meters (AEC).
6	17 07 00.0			PACK RAT Collapse.
6	17 50 06.8	39.0 N.	123.3 W.	Northern California. Felt. Slight damage in Lake and Mendocino counties. h about 14 km. Mag. 5¼.
6	19 38 20.4	44.9 N.	148.9 E.	Kurile Islands. h about 78 km.
6	20 02 37.0	28.1 N.	139.8 E.	Bonin Islands region. h about 421 km.
7	00 22 39.2	29.9 N.	113.5 W.	Gulf of California. h about 33 km.
7	05 35 47.3	51.9 N.	175.9 E.	Rat Islands, Aleutian Islands. h about 50 km.
7	15 00 02.0	17.2 N.	62.0 W.	Leeward Islands. h about 78 km.
8	01 31 59.9	18.1 S.	178.4 W.	Fiji Islands region. h about 603 km.
8	06 28 04.8	38.5 N.	119.4 W.	California-Nevada border. Felt: Walker River area; slight damage. h about 14 km. Mag. 4¼.
8	09 11 11.5	28.4 N.	129.8 E.	Ryukyu Islands. h about 19 km.
8	15 19 21.4	7.3 S.	155.7 E.	Solomon Islands. h about 54 km.
8	16 04 23.4	37.8 N.	141.3 E.	Near east coast of Honshu, Japan. h about 52 km.
8	19 14 07.0	37.5 N.	113.0 W.	Southern Utah. h about 33 km.
8	19 17 23.5	11.2 N.	126.0 E.	Near coast of Leyte, Philippine Islands. h about 52 km.
8	19 21 27.0	37.5 N.	112.5 W.	Southern Utah. h about 33 km.
8	20 49 18.4	55.6 S.	26.1 W.	Sandwich Islands. h about 25 km.
9	01 35 49.0	51.6 N.	177.2 W.	Andreanof Islands, Aleutian Islands. h about 25 km.
9	06 04 55.8	21.1 S.	178.3 E.	Fiji Islands. h about 339 km.
9	07 40 22.2	9.0 N.	126.5 E.	Near northern tip of Mindanao, Philippine Islands. h about 100 km.
9	10 25 40.3	5.9 S.	147.0 E.	New Britain region. h about 72 km.
9	13 25 48.1	23.3 S.	66.4 W.	Jujuy Province, Argentina. h about 184 km.
9	19 57 23.0	12.8 N.	91.1 W	Off coast of El Salvador. h about 33 km.
10	02 59 44.8	20.9 S.	170.8 E.	Loyalty Islands region. h about 31 km.
10	13 53 57.5	30.1 N.	138.7 E.	Bonin Islands region. h about 363 km.
10	17 24 51.3	24.7 S.	170.6 E.	Loyalty Islands region. h about 309 km.
11	00 52 47.3	49.7 N.	129.3 W.	Vancouver Island region. h about 25 km.
11	02 05 43.3	19.0 S.	168.8 E.	New Hebrides Islands. h about 85 km.
11	04 35 00.6	19.6 S.	177.7 W.	Fiji Islands region. h about 370 km.
11	07 15 41.4	43.6 N.	18.3 E.	Central Yugoslavia. 10 injured, extensive damage at Sarajevo. Felt along coast to Trieste, Italy. h about 33 km. Mag. 5-5¼ (Pal).
11	08 51 27.4	43.6 N.	18.3 E.	Central Yugoslavia. h about 21 km.
11	12 54 56.6	28.0 N.	109.2 W.	Sonora, Mexico. h about 33 km.
11	17 02 09.8	10.4 S.	165.0 E.	Santa Cruz Islands region. h about 46 km.
11	21 46 46.7	17.0 N.	147.3 E.	Mariana Islands region. h about 45 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
12	01 26 41.4	67.9 N.	12.3 W.	Off coast of Iceland. h about 33 km.
12	02 37 02.7	30.3 N.	113.2 W.	Gulf of California. h about 33 km.
12	09 46 30.3	65.0 N.	16.7 W.	Iceland. h about 33 km.
12	13 45 40.6	13.2 S.	167.2 E.	Santa Cruz Islands region. h about 233 km.
13	12 14 10.0	39.5 N.	110.5 W.	Central Utah. h about 33 km.
13	19 08 46.6	24.0 S.	176.5 W.	Tonga Islands region. h about 33 km.
13	21 00 00.116			37°13'20" N., 116°02'21" W. Nevada Test Site. DES MOINES. Shot elevation = 1523.0 meters (AEC).
14	07 51 53.3	54.4 N.	169.1 E.	Komandorskie Islands region. h about 30 km. Mag. 6-6¼.
14	07 55 51.8	54.3 N.	169.2 E.	Komandorskie Islands region. h about 60 km. Mag. 6.
14	08 30 51.4	19.3 N.	64.9 W.	Leeward Islands region. h about 57 km.
14	15 07 50.4	44.1 N.	14.6 E.	Adriatic Sea. h about 33 km.
14	17 14 23.2	54.2 N.	169.2 E.	Komandorskie Islands region. h about 63 km.
14	20 18 06.2	1.9 S.	76.9 W.	Ecuador-Peru border region. h about 160 km.
14	22 14 14.2	26.4 N.	126.0 E.	Ryukyu Islands region. h about 33 km.
15	06 30 35.7	20.5 S.	70.6 W.	Near coast of northern Chile. h about 33 km. Mag. 5 (Pal).
15	11 56 19.3	13.3 S.	167.0 E	Santa Cruz Islands region. h about 211 km.
15	12 10 20.5	21.4 S.	175.0 W.	Tonga Islands region. h about 147 km.
15	17 31 56.2	10.3 S.	161.6 E.	Solomon Islands. h about 112 km.
15	21 29 32.4	42.6 N.	143.6 E.	Off southeast coast of Hokkaido, Japan. h about 25 km.
16	05 21 15.0	26.2 N.	126.0 E.	Ryukyu Islands. h about 33 km.
16	06 27 34.8	0.1 S.	122.8 E.	Molucca Sea. h about 191 km.
16	11 10 46.0	13.3 N.	87.3 W.	Near coast of Honduras and El Salvador border. h about 33 km.
16	14 13 34.3	9.7 S.	79.1 W.	Near coast of central Peru. h about 31 km.
16	17 48 47.1	16.6 S.	167.7 E.	New Hebrides Islands. h about 25 km.
16	21 42 07.3	14.3 N.	53.6 E.	Gulf of Aden. h about 33 km.
17	04 27 43.2	40.1 S.	46.0 E.	Indian Ocean, north of Crozet Island. h about 33 km.
17	04 39 30.1	33.1 N.	75.9 E.	Kashmir. Felt: Rawalpindi and Lahore. h about 34 km.
17	13 22 16.5	10.9 S.	165.9 E.	Santa Cruz Islands. h about 59 km.
17	14 26 29.7	43.2 N.	88.0 E.	Sinkiang Province, China. h about 50 km.
17	14 33 55.9	23.8 S.	66.7 W.	Jujuy - Salta Provinces, Argentina. h about 205 km.
17	20 12 03.0	18.1 N.	109.0 W.	Off coast of Jalisco, Mexico. h about 33 km.
17	22 28 10.3	52.1 N.	177.2 E.	Rat Islands, Aleutian Islands. h about 33 km.
18	06 21 06.1	60.5 N.	153.7 W.	Cook Inlet region, Alaska. h about 174 km.
18	12 27 02.7	52.4 N.	174.6 W.	Andreanof Islands, Aleutian Islands. h about 65 km.
18	13 22 04.1	14.5 N.	83.0 W.	Near east coast of Nicaragua. h about 33 km.
18	16 59 11.7	0.8 S.	133.8 E.	Near north coast of New Guinea (Irian). h about 25 km.
18	23 42 37.1	4.9 S.	152.0 E.	New Britain region. h about 100 km. Mag. 6¾.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
19	00 47 32.0	37.5 N.	112.5 W.	Southern Utah. h about 33 km.
19	00 59 14.8	6.3 N.	82.6 W.	Off south coast of Panama. h about 33 km.
19	03 32 01.8	5.6 S.	151.5 E.	New Britain. h about 130 km.
19	15 45 03.2	17.0 S.	172.5 W.	Tonga Islands region. h about 29 km.
19	16 39 21.4	20.9 S.	177.8 W.	Fiji Islands region. h about 405 km.
20	00 05 47.3	19.3 S.	175.6 W.	Tonga Islands. h about 226 km.
20	02 16 04.9	20.7 S.	169.5 E.	Loyalty Islands region. h about 109 km.
20	04 34 41.1	46.4 N.	143.3 E.	Off northwest coast of Hokkaido, Japan. h about 287 km.
20	06 16 24.3	7.0 S.	126.7 E.	Banda Sea. h about 291 km.
20	13 44 44.0	44.8 N.	129.9 W.	Off coast of central Oregon. h about 33 km.
20	19 25 57.2	44.6 N.	130.1 W.	Off coast of central Oregon. h about 33 km.
20	22 59 08.7	14.9 N.	92.6 W.	Near coast of Chiapas, Mexico. h about 119 km.
21	02 06 48.2	45.5 N.	72.7 W.	Southern Quebec, Canada. Felt: Southern Quebec and northern Vermont. h about 33 km.
21	03 23 25.8	4.6 N.	122.8 E.	Celebes Sea. h about 636 km.
21	04 43 43.3	5.7 N.	82.6 W.	South of Panama. h about 23 km. Mag. 6¼.
21	05 13 17.3	8.1 N.	82.8 W.	Near south coast of Panama. h about 58 km.
21	07 55 46.0	61.3 N.	153.4 W.	Alaska. h about 32 km.
21	08 38 28.4	20.8 S.	175.6 W.	Tonga Islands. h about 67 km.
21	10 19 05.6	19.9 S.	177.9 W.	Fiji Islands region. h about 587 km.
21	15 40 23.4	1.2 S.	77.4 W.	Ecuador. h about 194 km.
21	15 56 21.1	53.0 N.	159.1 E.	Near east coast of Kamchatka. h about 42 km.
21	16 45 19.6	7.0 S.	155.7 E.	Solomon Islands. h about 69 km.
21	17 00 00.131			37°02'35" N., 116°01'50" W. Nevada Test Site. DAMON I. Shot elevation = 961.9 meters (AEC).
21	17 11 00.0			DAMON I Collapse.
21	18 58 19.4	38.7 S.	72.4 W.	Near coast of Chile. h about 50 km.
21	22 52 51.7	7.5 S.	129.9 E.	Tanimbar Island region. h about 33 km.
22	08 16 46.4	18.8 S.	169.7 E.	New Hebrides Islands. h about 242 km.
22	11 48 56.8	32.2 N.	142.2 E.	Off east coast of Honshu, Japan. h about 33 km.
22	14 55 41.1	7.0 S.	147.0 E.	Near northeast coast of New Guinea. Felt: Lae, Wau, and Bulolo. h about 93 km.
22	17 57 19.7	17.2 S.	178.8 W.	Fiji Islands region. h about 609 km.
23	04 23 42.8	37.1 N.	141.3 E.	Near east coast of Honshu, Japan. Felt. h about 60 km.
23	05 04 59.2	29.7 N.	49.2 E.	Persian Gulf. h about 40 km.
23	09 44 38.9	25.5 N.	128.3 E.	Ryukyu Islands. h about 33 km. Mag. 5¾ (Brk), 6-6¼ (Pal).
23	09 58 27.0	19.2 N.	121.3 E.	Near north coast of Luzon, Philippine Islands. Felt: Calayan and Aparri. h about 45 km.
23	15 03 16.7	33.5 S.	72.3 W.	Near coast of Chile. Felt. h about 42 km.

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
23	17 11 04.0	38.5 N.	108.5 W.	Western Colorado. h about 33 km.
24	01 21 17.9	25.6 N.	101.2 E.	Yunan Province, China. h about 33 km.
24	01 43 50.6	17.3 S.	178.9 W.	Fiji Islands region. h about 527 km.
24	03 01 47.6	6.8 S.	146.8 E.	New Guinea. Felt: Lae and Kaiapit. h about 50 km.
24	11 56 24.7	27.7 S.	177.1 W.	Kermadec Islands region. h about 52 km.
24	14 13 02.4	55.8 N.	162.6 E.	Near east coast of Kamchatka. h about 24 km.
24	15 08 18.6	13.0 N.	48.6 E.	Gulf of Aden. h about 33 km.
24	17 03 14.9	15.3 S.	167.6 E.	New Hebrides Islands. h about 130 km.
25	01 31 41.9	20.8 S.	179.2 W.	Fiji Islands region. h about 645 km.
25	02 49 01.6	20.6 S.	70.8 W.	Near coast of northern Chile. h about 40 km.
25	06 26 49.3	37.4 S.	73.3 W.	Near coast of southern Chile. h about 36 km.
25	11 10 26.0	24.2 N.	122.5 E.	Near coast of Formosa. Felt. h about 33 km. Mag. 5¾.
25	12 49 44.0	3.7 N.	126.4 E.	Celebes Sea. h about 26 km.
25	18 58 35.6	14.5 N.	82.4 W.	Near east coast of Nicaragua. h about 25 km. Mag. 4½-4¾ (Pal).
25	22 58 12.8	76.0 N.	9.5 E.	Svalbard region. h about 33 km.
26	02 51 21.7	27.9 N.	129.2 E.	Ryukyu Islands. h about 35 km.
26	08 05 34.5	4.8 S.	146.9 E.	Near northeast coast of New Guinea. h about 82 km.
26	09 54 35.1	7.1 S.	149.6 E.	New Britain region. h about 59 km.
26	14 54 21.4	42.7 N.	24.0 E.	Bulgaria. h about 33 km.
27	00 19 13.9	43.6 N.	41.2 E.	Near coast of Black Sea, Georgian S.S.R. h about 33 km.
27	01 28 55.7	37.7 N.	88.5 W.	Southern Illinois. Felt in Illinois and Missouri. h about 25 km. Mag. 5¼-5½ (Pal).
27	03 30 01.9	6.1 S.	148.8 E.	Near south coast of New Britain. Felt: Kandrian. h about 55 km.
27	05 11 48.8	43.0 N.	126.4 W.	Off coast of Oregon. h about 33 km.
27	08 17 50.3	30.0 S.	177.7 W.	Kermadec Islands. h about 69 km.
27	08 30 42.9	50.2 N.	158.9 E.	Off coast of Kamchatka. h about 33 km.
27	12 21 40.0	4.6 S.	151.4 E.	New Britain region. h about 110 km.
27	13 33 20.4	39.1 S.	74.5 W.	Off coast of southern Chile. h about 33 km.
27	13 38 30.8	47.9 S.	99.4 E.	Indian Ocean, southwest of Australia. h about 33 km.
27	18 00 00.123			37°02'30" N., 116°02'07" W. Nevada Test Site. HAYMAKER. Shot elevation = 811.3 meters (AEC).
27	18 25 00.0			HAYMAKER Collapse.
27	19 47 28.8	23.2 S.	66.8 W.	Jujuy Province, Argentina. h about 200 km.
27	23 26 46.7	23.8 N.	122.8 E.	Near east coast of Formosa. Felt: Ilan and Taitung. h about 33 km.
28	04 13 51.6	31.4 N.	131.3 E.	Near southern coast of Kyushu, Japan. h about 26 km.
28	04 27 16.1	19.8 N.	155.6 W.	Hawaii Island, Hawaii. Slight damage on Hawaii. h about 15 km. Mag. 5¾ (Brk), 5¼-5½ (Pal).

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Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
28	06 51 05.6	40.7 N.	20.7 E.	Southern Albania. Felt in Albania and Greece. h about 40 km.
28	11 02 50.5	2.4 S.	127.7 E.	Molucca Sea. h about 72 km.
28	11 17 48.6	7.7 S.	107.9 E.	Near south coast of Java. h about 94 km.
28	17 00 00.106			37°00'33" N., 116°12'04" W. Nevada Test Site. MARSHMALLOW. Shot elevation = 1963.4 meters (AEC).
28	17 51 01.5	43.8 N.	144.5 E.	Near coast of northern Hokkaido, Japan. h about 55 km.
28	18 50 27.5	0.2 S.	124.3 E.	Molucca Sea. h about 58 km.
28	20 47 30.3	17.8 S.	175.1 W.	Tonga Islands. h about 223 km.
29	00 52 12.0	15.1 S.	166.9 E.	New Hebrides Islands. Felt: Santo. h about 122 km.
29	03 30 18.8	56.2 S.	26.9 W.	Sandwich Islands. h about 25 km.
29	10 28 46.6	35.2 S.	106.0 W.	Southeast of Easter Island. h about 25 km.
29	12 09 32.5	17.9 S.	167.8 E.	New Hebrides Islands. h about 44 km.
29	13 49 16.9	7.9 S.	127.3 E.	Banda Sea. h about 80 km.
29	15 48 11.9	38.2 N.	143.1 E.	Off coast of northern Honshu, Japan. h about 33 km.
29	16 28 07.1	62.4 N.	152.0 W.	Alaska. h about 50 km. Mag. $4\frac{3}{4}$ (Brk), $4\frac{3}{4}$-5 (Pal).
29	20 58 19.3	41.9 S.	79.8 E.	South Indian Ocean. h about 33 km.
29	22 35 21.0	15.3 N.	105.2 W.	Off coast of Guerrero, Mexico. h about 33 km.
29	22 35 42.3	32.0 N.	48.8 E.	Western Iran. Felt: Shushtar and Masjed Soleyman. h about 52 km.
30	01 09 47.7	34.0 N.	141.5 E.	Off east coast of Honshu, Japan. h about 52 km.
30	09 45 50.2	27.6 N.	57.7 E.	Southern Iran. h about 25 km.
30	19 29 57.9	16.3 N.	122.1 E.	Near east coast of Luzon, Philippine Islands. Felt. h about 82 km.
30	21 30 00.155			37°07'03" N., 116°02'51" W. Nevada Test Site. SACREMENTO. Shot elevation = 1139.9 meters (AEC).
30	21 36 00.0			SACREMENTO Collapse.

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Date and Station		Phase (GCT)
		h m s
June 1		
COL	iP	01 34 54
	ipP	35 16
June 1		
COL	iP	02 01 41
	i	02 51
	iS	03 08
	i	03 26
	i	04 46
EUR	eP	02 05 48
June 1		
ALQ	eP	05 12 40
	i	13 13
EUR	eP	05 12 48
	eL	15 09
FGU	e(P)	05 12 56
GCA	eP	05 12 41
	iS	14 04
TUC	e(P)	05 11 36
June 1		
ALQ	eP	05 38 27
	i	38 56
BOZ	iP	05 40 09
EUR	eP	05 38 31
	eL	41 02
GCA	e(P)	05 38 19
	i	39 51
SLC	e(P)	05 38 58
June 1		
ALQ	eP	05 47 29
	i	48 04
EUR	eP	05 47 36
	eL	50 11
June 1		
ALQ	e(P)	06 25 11
	i	25 36
EUR	eP	06 25 14
	eL	27 44
GCA	eP	06 25 39
	i	26 25
June 1		
ALQ	iP	06 54 11
BOZ	iP	06 55 43
BUT	eP	06 55 49
COL	iP	06 59 05
CSC	eP	06 53 19
EUR	eP	06 55 26
FGU	iP	06 54 34
June 1		
ALQ	e(P)	07 06 21
GCA	e(P)	07 07 24
HHM	iP	07 04 00
June 1		
COL	iP	10 02 46
June 1		
ALQ	e(P)	11 27 04
CSC	e(P)	11 27 39
June 1		
COL	e(P)	11 56 11
June 1		
EUR	iP	13 19 05
FGU	e(P)	13 18 21
June 1		
ALQ	eP	17 01 57
	i	02 29
	eS	04 11
BCN	iP	17 00 26
EUR	iP	17 00 40
FGU	eP	17 01 52
GCA	e(P)	17 00 56
	i	01 04
	i(S)	01 48
SLC	eP	17 01 10
	e	01 49
	i	02 56
	iS	03 06
	i	03 23
June 1		
COL	eP	21 50 53
	e	54 43
EUR	eP	21 47 11
June 2		
BOZ	eP	02 11 24
EUR	eP	02 10 28
	i	10 51
FGU	eP	02 10 24
June 2		
COL	iP	05 48 00
	ipP	48 16
EUR	eP	05 49 14
SJP	iP'	05 55 13
GUA	eP	05 39 35
	eS	42 42
June 2		
COL	iP	09 19 27
	e	19 36
June 2		
EUR	eP	09 32 06
June 2		
BOZ	eP	11 52 55
	e(ScP)	58 17
BUT	eP	11 52 41
COL	eP	11 53 56
EUR	iP	11 53 09
TUC	eP	11 54 48
TUT	eP	11 54 48
June 2		
BOZ	e(P)	12 09 09
COL	eP	12 10 09
EUR	eP	12 09 21
WAS	e(P)	12 13 05
June 2		
BOZ	eP	12 21 39
	eS	26 47
COL	eP	12 22 40
EUR	eP	12 21 49
June 2		
BOZ	iP	12 29 39
	eS	32 21
BUT	eP	12 29 02
	eS	31 58
COL	iP	12 30 18
	i	30 35
	iS	33 47
EUR	iP	12 29 33
GCA	eP	12 30 25
RCD	eP	12 30 25
	eS	33 45
SLC	eP	12 29 51
	e	30 37
	eL	35 21
TUC	iP	12 31 11
	e(S)	35 24
TUT	eP	12 31 11
	e(S)	35 21
UKI	e(P)	12 29 00
WAS	eP	12 33 29
	eL	40 41
	e	46 13
June 2		
BOZ	iP	12 38 55
COL	iP	12 39 57
EUR	iP	12 39 11
GCA	eP	12 40 02
SLC	eP	12 39 32
TUC	iP	12 40 49
TUT	iP	12 40 49
June 2		
EUR	eP	13 49 34
June 2		
BOZ	iP	17 27 54
	i	28 16
	e	39 30
COL	iP	17 25 16
	i	25 36
	i	26 21
	i	26 32
	ePP	27 38
EUR	iP	17 27 58
FGU	eP	17 28 11
GUA	eP	17 19 51
	eS	23 48
SLC	iP	17 28 15
THU	e(P)	17 26 24
June 2		
BHP	iP	20 51 25
	iS	51 57
June 2		
COL	eP	21 58 08
June 3		
COL	eP	00 35 29
June 3		
COL	eP	01 09 28
	i	09 40
EUR	eP	01 12 46
June 3		
EUR	eP	01 42 15
June 3		
COL	e(P)	09 12 49
	ipP	13 26
EUR	eP	09 13 05
June 3		
COL	iP	10 20 21
	ipP	20 36
	e	23 29

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

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Date and Station		Phase (GCT)
		h m s
FGU	e(P)	00 50 15
	eS	50 54
GCA	iP	00 49 32
	eS	49 45
June 6		
EUR	e(P)	02 42 32
June 6		
COL	iP	03 10 26
June 6		
ALQ	iP	05 31 16
EUR	iP	05 32 21
SJP	eP	05 24 22
	iS	25 17
June 6		
ALQ	iP	10 45 07
EUR	eP	10 45 46
FGU	eP	10 45 41
June 6		
ALQ	e(P)	10 58 56
	e	59 18
GCA	eP	10 57 56
	iS	58 10
June 6		
ALQ	eP	11 06 36
EUR	eP	11 07 53
June 6		
COL	iP	11 17 56
	i	18 07
EUR	iP	11 21 31
June 6		
ALQ	eP	17 02 00
	i	02 29
BCN	iP	17 00 27
EUR	iP	17 00 41
FGU	eP	17 01 40
	i	02 01
	iL	03 25
GCA	iP	17 00 59
	i(S)	01 41
SLC	eP	17 01 20
	eL	02 45
TUC	e(P)	17 01 19
June 6		
ALQ	eP	17 08 48
	i	09 33

Date and Station		Phase (GCT)
		h m s
BCN	iP	17 07 28
GCA	eP	17 08 09
	eS	08 55
SLC	e(P)	17 08 24
	e	08 42
	e	09 02
	eL	09 59
	e	10 32
June 6		
ALQ	eP	17 53 30
BOZ	iP	17 52 52
	eS	54 07
BUT	iP	17 52 44
	e	53 59
COL	iP	17 56 13
	i	59 18
EUR	iP	17 51 31
FGU	eP	17 52 48
	eL	55 20
GCA	eP	17 52 29
	iL	55 01
HHM	eP	17 52 57
	eL	55 22
SLC	eP	17 52 23
	eL	55 01
TUC	eP	17 53 02
	eL	56 15
UKI	iP	17 50 12
June 6		
EUR	iP	18 31 22
June 6		
ALQ	e(P)	19 00 56
EUR	iP	19 00 54
June 6		
COL	eP	19 10 40
June 6		
COL	eP	19 45 44
	ipP	45 57
June 6		
COL	iP	20 11 46
EUR	iP	20 14 17
June 6		
EUR	iP	22 16 40
June 7		
ALQ	iP	00 24 32
	iL	26 51
BCN	e(P)	00 24 08

Date and Station		Phase (GCT)
		h m s
BOZ	e(P)	00 26 27
BUT	eP	00 26 30
EUR	iP	00 24 59
FGU	eP	00 25 24
	eL	28 43
GCA	e(P)	00 24 24
	i	25 42
TUC	iP	00 23 29
June 7		
EUR	eP	02 53 39
June 7		
EUR	iP	04 22 19
June 7		
ALQ	eP	05 45 23
COL	iP	05 40 45
	i	41 02
EUR	iP	05 45 18
SJP	iP	05 48 51
June 7		
COL	iP	08 40 44
	i	41 23
June 7		
ALQ	eP	09 12 05
COL	iP	09 07 20
	i	07 46
EUR	eP	09 11 06
June 7		
COL	iP	12 14 52
	i	15 08
June 7		
COL	e(P)	14 15 05
EUR	iP	14 15 28
June 7		
COL	iP	15 11 20
	i	11 37
EUR	iP	15 09 02
SJP	eP	15 01 06
	iS	02 00
June 7		
SJP	iP	15 07 29
	iS	07 38
June 7		
ALQ	eP	17 21 20
GCA	e(P)	17 22 20
	e	22 33

Date and Station		Phase (GCT)
		h m s
June 7		
ALQ	eP	22 19 36
	e	23 52
COL	e(P)	22 15 42
June 7		
EUR	eP	22 48 59
June 7		
GUA	iP	22 55 09
	iS	55 22
June 8		
BOZ	iP	01 43 48
	epP	45 58
COL	iP	01 43 36
	i	43 56
	ipP	45 40
EUR	eP	01 43 17
FGU	iP	01 43 42
GCA	iP	01 43 29
TUC	iP	01 43 19
	e	43 34
TUT	iP	01 43 19
June 8		
COL	iP	05 43 33
June 8		
ALQ	e(P)	06 30 51
	e	31 20
BCN	e(P)	06 29 17
EUR	iP	06 28 48
	iL	29 29
FGU	eP	06 30 06
UKI	e(P)	06 28 59
June 8		
COL	eP	09 21 28
	i	21 45
EUR	eP	09 24 06
June 8		
COL	iP	09 26 33
	e	27 40
June 8		
COL	iP	11 24 48
	i	24 57
	i	25 10
June 8		
COL	eP	12 05 36
EUR	eP	12 05 13

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Date and Station		Phase	(GCT) h m s
June 8			
COL		iP	12 38 40
June 8			
ALQ		eP	13 20 05
TUC		e(P)	13 19 04
June 8			
COL		iP	13 39 58
June 8			
COL		eP	13 53 27
		e	53 49
June 8			
COL		iP	15 31 40
		ipP	31 50
June 8			
COL		eP	16 13 04
		i	13 22
EUR		iP	16 16 04
June 8			
COL		iP	18 31 57
		i	32 17
June 8			
ALQ		eP	19 15 37
		eS	16 55
FGU		eP	19 15 16
		eS	15 53
GCA		iP	19 14 27
		i(S)	14 40
HHM		eP	19 13 11
June 8			
EUR		iP	19 22 21
		iL	23 13
ALQ		eP	19 22 49
		i	23 10
		eS	24 12
FGU		eP	19 22 32
		eS	23 15
GCA		iP	19 21 47
		i(S)	22 00
June 8			
GUA		eP	19 21 31
June 8			
ALQ		eP	19 41 18
EUR		eP	19 39 31
June 8			
EUR		eP	20 40 41
SJP		iP	20 32 17
		iS	32 35

Date and Station		Phase	(GCT) h m s
June 8			
ALQ		e(P)	22 33 24
GCA		e(P)	22 35 38
TUC		eP	22 32 20
TUT		e(P)	22 32 23
June 9			
ALQ		eP	01 44 48
BOZ		iP	01 43 48
COL		iP	01 40 24
		i	40 44
EUR		iP	01 43 52
SJP		iP	01 48 40
TUC		iP	01 44 52
TUT		eP	01 44 52
June 9			
EUR		eP	06 16 46
June 9			
COL		e(P)	07 08 11
June 9			
COL		iP	07 52 23
June 9			
COL		iP	08 03 19
June 9			
EUR		eP	10 40 55
June 9			
ALQ		iP	13 36 37
EUR		eP	13 37 26
TUC		iP	13 36 38
TUT		iP	13 36 39
June 9			
EUR		eP	15 25 16
June 9			
ALQ		iP	16 08 23
FGU		eP	16 09 28
June 9			
ALQ		iP	20 02 55
BUT		eP	20 04 38
COL		iP	20 07 58
		iPcR	08 31
CSC		eP	20 02 26
EUR		iP	20 04 10
FGU		iP	20 03 50

Date and Station		Phase	(GCT) h m s
GCA		eP	20 03 33
HHM		i(P)	20 05 40
SLC		iP	20 04 00
		iPcP	06 40
SJP		e(P)	20 02 40
TUC		iP	20 02 59
TUT		iP	20 02 59
		ePP	03 47
June 9			
ALQ		e(P)	21 33 05
EUR		iP	21 33 52
SLC		iP	21 33 47
June 10			
ALQ		iP	24 02 39
EUR		eP	24 03 25
SJP		iP	23 59 31
June 10			
SJP		iP	00 01 26
June 10			
EUR		eP	03 12 55
June 10			
COL		iP	03 27 16
June 10			
COL		eP	05 14 30
June 10			
COL		eP	09 52 08
EUR		eP	09 51 46
June 10			
COL		iP	11 37 12
HHM		iP	11 39 58
June 10			
COL		iP	12 12 53
June 10			
ALQ		eP	12 40 06
EUR		iP	12 38 07
RCD		e(P)	12 40 14
UKI		iP	12 37 00
June 10			
COL		e(P)	12 48 24
June 10			
COL		iP	14 03 03
		i(pP)	04 34

Date and Station		Phase	(GCT) h m s
EUR		eP	14 05 39
GUA		iP	13 57 39
June 10			
EUR		eP	14 16 32
June 10			
COL		eP	14 26 13
		i	26 51
EUR		eP	14 22 21
June 10			
EUR		eP	14 30 02
June 10			
COL		eP	16 11 39
June 10			
COL		iP	16 53 10
		i	53 19
		e	53 47
June 10			
BOZ		iP	16 53 57
FGU		eP	16 54 04
		iS	54 37
June 10			
EUR		eP	17 37 29
June 10			
EUR		eP	17 46 06
June 10			
COL		eP	18 47 04
June 10			
COL		iP	22 41 07
		i	41 22
June 11			
ALQ		iP	00 57 45
BOZ		eP	00 55 50
BUT		eP	00 55 36
		e(S)	59 29
COL		iP	00 56 59
		i	57 15
		e	58 25
EUR		iP	00 56 05
FGU		eP	00 56 42
GCA		e(P)	00 56 59
HHM		eP	00 55 07
		eS	58 03
RCD		eP	00 57 07
SLC		eP	00 56 22
		e	57 13

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Date and Station		Phase (GCT)
		h m s
TUC	iP	00 57 43
TUT	iP	00 57 44
June 11		
WAS	e(P)	01 12 52
	e	13 32
	e	15 56
June 11		
COL	eP	02 16 18
	ePP	18 30
EUR	eP	02 18 37
June 11		
COL	iP	02 58 50
June 11		
ALQ	iP	04 47 05
	epP	48 23
BOZ	eP	04 47 15
	iPP	50 58
COL	iP	04 47 06
	ipP	48 38
EUR	iP	04 46 42
FGU	eP	04 47 08
HON	iP	04 42 43
KIP	iP	04 42 43
TUC	iP	04 46 44
TUT	iP	04 46 44
June 11		
COL	iP	05 14 36
June 11		
KIP	eP	07 15 16
June 11		
ALQ	eP	07 28 24
BCN	eP	07 28 34
BOZ	iP	07 27 52
BUT	iP	07 27 53
COL	iP	07 27 00
	i(PcP)	27 34
CSC	eP	07 27 12
EUR	iP	07 28 28
FGU	eP	07 28 08
RCD	eP	07 27 40
SLC	eP	07 28 14
SJP	eP	07 27 13

Date and Station		Phase (GCT)
		h m s
SIT	eP	07 27 35
THU	eP	07 24 11
	e	24 30
	e	25 06
	ePcP	25 42
TUC	eP	07 28 45
TUT	eP	07 28 45
June 11		
COL	eP	10 24 56
	e	25 20
June 11		
ALQ	eP	12 56 45
EUR	eP	12 57 59
FGU	eP	12 58 02
TUT	eP	12 56 10
June 11		
COL	eP	15 12 13
June 11		
GUA	eP	15 36 42
June 11		
CSC	eP	16 03 48
June 11		
BCN	iP	16 30 02
EUR	iP	16 30 57
	iL	31 55
GCA	eP	16 30 47
	iS	31 30
June 11		
EUR	eP	17 14 58
June 11		
ALQ	eP	20 48 15
	eS	48 58
FGU	eP	20 48 00
	i	48 04
	iS	48 39
GCA	e(P)	20 48 52
June 11		
COL	eP	21 57 19
EUR	eP	21 59 16
FGU	eP	21 59 37
GUA	eP	21 47 49
June 12		
COL	eP	00 48 18
June 12		
COL	eP	01 35 03

Date and Station		Phase (GCT)
June 12		h m s
ALQ	eP	02 38 47
	eS	41 12
BCN	e(P)	02 38 27
BOZ	eP	02 40 42
EUR	eP	02 39 19
	eL	42 27
GCA	e(P)	02 39 25
TUC	eP	02 37 45
	eL	39 42
TUT	eP	02 37 47
	e(S)	38 42
	eL	39 36
June 12		
COL	eP	06 30 09
	e	30 25
June 12		
COL	iP	06 35 23
	i	35 55
EUR	eP	06 38 44
June 12		
COL	eP	09 37 03
	e	37 13
June 12		
COL	iP	09 54 50
	e	55 08
EUR	eP	09 56 26
June 12		
EUR	eP	10 12 45
HHM	iP	10 12 14
June 12		
COL	eP	10 49 49
June 12		
COL	iP	13 57 54
	ipP	58 45
	e	59 37
EUR	iP	13 58 11
	ipP	59 03
June 13		
THU	eP	08 00 02
	e	00 25
	e	01 01
June 13		
COL	eP	08 50 39
June 13		
COL	eP	09 54 34
June 13		
COL	eP	10 03 25

Date and Station		Phase (GCT)
June 13		h m s
ALQ	eP	12 15 32
	i	15 53
	eS	16 58
EUR	e(P)	12 15 18
FGU	iP	12 14 38
	iS	15 02
GCA	eP	12 14 55
	iS	15 31
SLC	eP	12 14 41
	e	15 02
June 13		
ALQ	iP	13 48 23
COL	eP	13 54 20
June 13		
COL	iP	16 20 34
June 13		
COL	iP	16 38 05
June 13		
GCA	eP	17 57 07
HHM	i(P)	17 54 11
June 13		
COL	eP	19 20 52
June 13		
BCN	iP	21 00 30
BUT	e(P)	21 02 16
EUR	iP	21 00 38
FGU	iP	21 01 40
GCA	eP	21 00 56
	e	01 00
	iS	01 44
SLC	iP	21 01 20
	i	01 41
June 14		
HON	iP	02 35 41
	iS	36 13
KIP	iP	02 35 42
	iS	36 12
June 14		
SJP	iP	03 47 39
	i	47 53
	i	49 43
June 14		
EUR	eP	04 30 28

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

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

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Date and Station		Phase (GCT) h m s
June 18		
COL	eP	17 11 49
	i	11 59
SJP	eP'	17 19 23
June 18		
COL	eP	17 39 03
June 18		
COL	iP	18 43 49
June 18		
EUR	eP	20 42 00
June 18		
COL	iP	21 09 00
	e	09 12
EUR	eP	21 09 05
FGU	e(P)	21 09 30
June 18		
COL	iP	21 37 24
June 18		
ALQ	iP	23 56 25(C)
BCN	i(P)	23 55 54 D
BOZ	eP	23 56 07 C
BUT	e(P)	23 56 00 C
COL	iP	23 54 48 C
	ipP	55 13
	isP	55 24
EUR	iP	23 55 49 C
	ePKKP	24 12 44
FGU	iP	23 56 10 D
	ipP	56 38
GCA	e(P)	23 56 07
	eSKS	24 06 39
GUA	iP	23 47 01(C)
	epP	47 19
	eS	50 43
	eL	51 32
HON	eP	23 52 04
	esP	52 32
	ePPP	55 18
	eScP	56 41
	e(PcS)	57 10
	iS	59 46
	esS	24 00 46
	iScS	01 58
HHM	e(P)	23 55 55 C
KIP	iP	23 52 05(C)
RCD	eP	23 56 31(D)
SLC	eP	23 56 03 C
	e(pP)	56 21

Date and Station		Phase (GCT) h m s
SJP	eP'	24 01 52(C)
	i	01 57
	ePP	04 55
	eSKP	05 27
SIT	iP	23 55 02
June 19		
ALQ	eP	00 48 58
	i	49 18
	e	50 25
GCA	iP	00 47 56
	iS	48 10
June 19		
ALQ	iP	01 06 16
BHP	iP	01 00 15
	iS	01 02
BCN	eP	01 07 05
BOZ	eP	01 07 41
COL	eP	01 10 48
EUR	eP	01 07 26
FGU	eP	01 07 04
SLC	eP	01 07 15
SJP	iP	01 03 49
June 19		
EUR	eP	02 01 20
June 19		
COL	iP	03 44 18
EUR	eP	03 45 17
GUA	eP	03 36 32
	eS	40 31
June 19		
EUR	eP	05 00 14
June 19		
COL	e(P)	05 09 12
June 19		
EUR	eP	06 36 36
June 19		
COL	eP	08 25 19
	e	25 38
EUR	eP	08 30 01
June 19		
COL	e(P)	13 21 37
June 19		
COL	iP	15 57 34
	i	57 56
EUR	eP	15 56 57
KIP	eP	15 52 54

Date and Station		Phase (GCT) h m s
June 19		
COL	iP	16 51 30
	ipP	53 11
EUR	iP	16 51 06
June 19		
COL	e(P)	18 23 13
EUR	eP	18 27 27
June 20		
COL	iP	00 14 36
	iS	14 45
June 20		
ALQ	eP	00 17 59
EUR	eP	00 17 36
June 20		
GUA	eP	00 45 08
June 20		
EUR	eP	03 35 10
June 20		
COL	eP	04 41 55
EUR	eP	04 45 18
June 20		
EUR	eP	05 57 05
June 20		
ALQ	eP'	06 34 49
COL	e(P)	06 29 10
	ePP	32 33
EUR	eP'	06 34 33
FGU	eP'	06 34 41
June 20		
BHP	iP	11 49 32
	iS	49 55
COL	eP	11 56 15
June 20		
COL	eP	13 24 15
EUR	eP	13 22 03
June 20		
COL	eP	13 32 12
EUR	eP	13 30 01
June 20		
ALQ	eP	13 49 22
	i	49 34
BCN	e(P)	13 48 10
COL	eP	13 49 43
EUR	iP	13 47 30

Date and Station		Phase (GCT) h m s
June 20		
COL	i(P)	14 02 47
June 20		
GUA	iP	15 03 44
June 20		
COL	eP	16 30 51
June 20		
COL	e(P)	16 56 55
EUR	eP	16 56 53
June 20		
COL	eP	16 59 06
June 20		
ALQ	eP	19 30 35
	eL	36 32
BCN	eP	19 29 21
BOZ	eP	19 29 31
BUT	e(P)	19 28 55
COL	eP	19 30 56
EUR	iP	19 28 46
FGU	e(P)	19 29 37
GCA	e(P)	19 29 28
RCD	eP	19 30 23
SLC	eP	19 28 40
SIT	e(P)	19 29 01
	e(S)	32 39
TUC	eP	19 30 25
TUT	eP	19 30 25
June 20		
BUT	e(P)	19 34 51
COL	eP	19 36 47
EUR	iP	19 34 42
June 20		
THU	e(P)	19 46 12
June 20		
COL	iP	20 41 22
	i	41 43
EUR	eP	20 44 36
June 20		
ALQ	iP	23 04 10
	eL	09 49
BCN	iP	23 05 00
BUT	e(P)	23 06 12

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Date and Station		Phase (GCT)
		h m s
COL	eP	23 09 19
	iPcP	10 18
CSC	eP	23 03 51
	ePcP	07 50
EUR	iP	23 05 26
FGU	eP	23 05 06
TUC	eP	23 04 14
TUT	eP	23 04 15
June 21		
COL	eP	03 35 00
June 21		
COL	eP	03 51 45
June 21		
COL	iP	04 07 28
	e	08 20
HHM	iP	04 05 08
June 21		
COL	eP	04 35 40
June 21		
BUT	iP	04 52 21
	ePP	54 21
BOZ	eP	04 52 15
BCN	iP	04 51 37
BHP	iP	04 44 50
	iS	45 40
ALQ	iP	04 50 50
COL	iP	04 55 21
	i	55 48
CSC	eP	04 49 46
	eS	54 54
EUR	iP	04 52 01
FGU	iP	04 51 39
GCA	e(P)	04 51 27
HON	eP	04 55 20
	iS	05 05 02
	eSS	10 07
	eL	15 25
HHM	eP	04 52 41
RCD	eP	04 51 38
	ePP	53 18
	eS	58 02
	e(Lg)	05 01 09
SLC	eP	04 51 50
SJP	iP	04 48 22
	iS	52 22

Date and Station		Phase (GCT)
		h m s
THU	eP	04 54 00
TUC	iP	04 50 56
	ePP	52 26
WAS	eP	04 50 24
June 21		
BHP	iP	05 14 08
EUR	eP	05 21 16
SJP	eP	05 17 39
June 21		
COL	iP	07 56 52
	iS	57 32
EUR	eP	08 02 09
FGU	eP	08 02 22
June 21		
ALQ	eP	08 51 03
	ipP	51 26
COL	iP	08 51 11
	ipP	52 20
EUR	iP	08 50 42
FGU	eP	08 51 06
GCA	e(P)	08 50 47
GUA	eP	08 47 31
TUC	iP	08 50 40
June 21		
COL	iP	10 30 57
EUR	eP	10 30 09
June 21		
ALQ	iP	15 48 22
COL	eP	15 52 27
	epP	53 15
EUR	iP	15 49 28
June 21		
COL	eP	16 02 21
EUR	eP	16 06 06
June 21		
ALQ	iP	17 02 02
	i	02 29
	i(S)	04 12
BUT	e(P)	17 02 34
	eS	04 53
EUR	iP	17 00 41
FGU	eP	17 01 41
GCA	eP	17 00 59
	i	01 06
	iS	01 51

Date and Station		Phase (GCT)
		h m s
HHM	e(P)	17 03 04
SLC	eP	17 01 01
UKI	eP	17 02 34
June 21		
ALQ	eP	17 11 20
	i	11 49
	e(S)	13 32
BUT	e(P)	17 14 24
EUR	iP	17 10 01
GCA	eP	17 10 24
SLC	eP	17 10 21
June 21		
CSC	e(P)	18 22 06
	e	38 50
June 21		
ALQ	eP	19 10 24
EUR	eP	19 11 03
FGU	e(P)	19 10 56
June 21		
COL	eP	22 09 06
	i	12 42
June 21		
ALQ	iP'	23 11 45
COL	eP	23 06 05
	e	06 37
EUR	eP'	23 11 30
SJP	iP'	23 13 35
June 22		
COL	e(P)	01 01 19
June 22		
COL	eP	02 01 10
	i	01 31
June 22		
COL	iP	03 33 23
June 22		
EUR	eP	08 39 22
June 22		
ALQ	iP	12 01 41
	ePP	05 03
BCN	iP	12 01 10
BOZ	eP	12 00 54
BUT	iP	12 00 48
	e	09 53
	e	01 14
	e	01 25
	e	01 51
COL	iP	11 58 11
	i	58 45
EUR	iP	12 00 56

Date and Station		Phase (GCT)
		h m s
FGU	iP	12 01 13
GUA	eP	11 53 11
	eS	56 46
HON	eS	12 06 04
	eL	13 12
RCD	iP	12 01 23
SLC	eP	12 01 07
TUC	iP	12 01 35
TUT	iP	12 01 36
June 22		
COL	iP	15 08 12
	ipP	08 30
EUR	eP	15 09 19
GUA	e(P)	15 00 13
SJP	iP'	15 15 13
June 22		
COL	eP	15 18 23
June 22		
BCN	iP	16 30 03
	eS	30 58
GCA	eP	16 30 49
	eS	31 53
June 22		
BHP	iP	17 53 41
	iS	54 22
June 22		
EUR	eP	18 08 31
June 22		
FGU	iP	19 10 46
	iS	11 20
SLC	eP	19 10 19
June 22		
COL	iP	21 38 08
June 22		
ALQ	e(P)	23 58 18
	i	58 28
	iS	59 14
FGU	e(P)	23 52 27
	eS	58 17
GCA	e(P)	23 59 05
	e	59 56
June 23		
COL	eP	04 32 27
EUR	eP	04 35 24
June 23		
COL	eP	05 17 32

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

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Date and Station		Phase (GCT)
June 25		h m s
ALQ	eP	11 24 39
	ePP	28 50
BCN	e(P')	11 24 07
	e	27 19
	ePP'	28 08
BOZ	e(P)	11 23 48
BUT	iP	11 23 44
	e	23 53
	e	24 28
	e	25 34
	e(SKS)	34 04
	e(S)	34 52
COL	eP	11 21 25
	i	21 45
	i	22 11
	i	22 42
	eS	30 42
EUR	iP	11 23 54
	ePP	27 38
	ePKKP	40 54
FGU	eP	11 24 05
GCA	e(P)	11 28 01
HON	eP	11 21 52
	e(PP)	24 27
	e(PPP)	27 02
	iS	31 19
	eSS	36 04
	eSSS	39 22
	eL	43 24
HHM	eP	11 23 33
KIP	eP	11 21 53
RCD	eP	11 24 11
SIT	eP	11 22 12
THU	iP	11 22 29
	e	23 08
	e	23 40
	e	24 19
TUC	e(PP)	11 28 45
TUT	e(PP)	11 28 46
WAS	e(P')	11 29 50
June 25		
COL	eP	11 49 22
June 25		
COL	eP	13 02 18
	i	02 39

Date and Station		Phase (GCT)
June 25		h m s
ALQ	e(P)	16 32 08
BCN	iP	16 30 02
GCA	e(P)	16 30 34
	e	31 23
June 25		
ALQ	eP	19 04 41
BHP	iP	19 00 04
	iS	01 14
BOZ	eP	19 06 06
COL	eP	19 09 26
CSC	eP	19 03 05
EUR	iP	19 05 59
FGU	e(P)	19 05 10
	e	05 29
SLC	eP	19 05 39
SJP	eP	19 02 22
WAS	eP	19 03 58
	e	11 18
June 25		
BCN	iP	19 15 38
FGU	iP	19 16 20
	i(S)	16 55
SLC	eP	19 15 49
June 25		
THU	e(P)	20 55 10
BUT	e(P)	23 07 24
COL	eP	23 05 39
EUR	eP	23 08 12
June 26		
GUA	eP	02 55 41
BCN	e(P)	03 04 34
	e	04 42
COL	eP	03 01 41
EUR	eP	03 04 19
June 26		
COL	eP	05 38 24
June 26		
COL	eP	06 15 46
	i	15 58
June 26		
COL	iP	10 07 04
	i	07 15
EUR	eP	10 08 06

Date and Station		Phase (GCT)
June 26		h m s
COL	iP	10 56 46
	iS	57 12
EUR	eP	11 02 26
June 26		
COL	eP	12 30 47
June 26		
COL	eP	13 04 47
June 26		
COL	eP	13 30 08
EUR	eP	13 29 38
June 26		
COL	eP	14 11 14
June 26		
COL	eP	15 56 55
June 26		
GUA	iP	17 03 00
	eS	03 17
June 26		
COL	iP	17 52 43
June 27		
COL	eP	00 30 35
June 27		
ALQ	e(P)	01 32 30
	iL	36 28
CSC	e(P)	01 31 07
	e	31 41
	iS	32 43
EUR	eP	01 33 48
FGU	e(P)	01 32 46
	i	32 57
RCD	eP	01 32 09
June 27		
COL	eP	03 42 29
	ipP	42 45
EUR	eP	03 43 33
GUA	eP	03 34 36
	iS	38 40
SJP	eP'	03 49 30
June 27		
ALQ	eP	05 15 52
EUR	iP	05 13 54
TUT	e(P)	05 15 38
June 27		
COL	eP	08 31 18
EUR	eP	08 30 45

Date and Station		Phase (GCT)
		h m s
TUC	eP	08 30 40
	epP	30 57
TUT	eP	08 30 39
	epP	30 58
June 27		
COL	eP	08 37 00
EUR	eP	08 40 36
June 27		
COL	iP	11 35 35
	i	35 51
June 27		
COL	eP	12 33 48
EUR	iP	12 34 51
	ipP	35 17
June 27		
ALQ	eP	13 45 25
EUR	iP	13 46 03
TUC	eP	13 45 20
TUT	iP	13 45 20
June 27		
ALQ	e(P')	13 58 30
EUR	iP'	13 58 28
June 27		
COL	iP	14 01 26
June 27		
GUA	iP	14 58 49
June 27		
COL	eP	15 29 56
EUR	eP	15 28 45
June 27		
ALQ	iP	18 02 01
BCN	iP	18 00 20
BUT	eP	18 02 18
COL	iP	18 06 44
EUR	iP	18 00 41
FGU	iP	18 01 41
GCA	iP	18 00 58
	i	01 04
HHM	e(P)	18 04 12
	iL	06 06
SLC	eP	18 01 18

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

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Date and Station		Phase (GCT)
		h m s
June 29		
EUR	iP	17 21 24
June 29		
WAS	eP	17 36 55
	e	51 45
June 29		
EUR	eP'	21 18 25
June 29		
ALQ	eP	22 39 49
BCN	eP	22 40 12
COL	eP	22 45 06
EUR	iP	22 40 53
TUC	eP	22 39 27
TUT	eP	22 39 27
June 29		
COL	iP	22 48 02
June 30		
COL	iP	01 18 51
EUR	iP	01 21 40
FGU	eP	01 22 28
GUA	eP	01 14 28
	e	14 49
June 30		
EUR	eP	01 30 14
June 30		
ALQ	e(P)	01 59 09
FGU	e(P)	01 58 26
	i	58 34
	eS	58 52
June 30		
COL	eP	09 58 29
June 30		
COL	eP	11 32 03
June 30		
ALQ	e(P)	14 09 42
EUR	eP	14 10 53
June 30		
COL	iP	15 31 53
EUR	eP	15 30 43
June 30		
BCN	eP	18 04 58
COL	iP	18 00 55
EUR	iP	18 04 33
June 30		
COL	iP	19 41 35
	i	41 47
	e	43 24
	ePP	44 30

Date and Station		Phase (GCT)
		h m s
GUA	iP	19 34 48
	i	35 16
	eS	39 14
HON	eP	19 41 43
	eS	51 21
	eL	20 04 36
SJP	eP'	19 49 36
June 30		
ALQ	eP	20 18 09
EUR	eP	20 16 59
June 30		
BCN	iP	21 10 33
	eS	10 43
	eL	10 54
GCA	eP	21 11 15
June 30		
ALQ	eP	21 32 00
	i	32 31
BCN	eP	21 30 32
	eL	32 15
	e	36 14
BOZ	e(P)	21 32 39
EUR	iP	21 30 40
FGU	eP	21 31 41
	i	32 03
GCA	eP	21 31 00
	i	31 06
	iS	31 53
SLC	eP	21 31 19
TUC	e(P)	21 32 05
	eS	33 23
June 30		
COL	eP	23 42 05
	e	42 35
EUR	e(P)	23 44 03
GUA	iP	23 31 45

Date and Station		Phase (GCT)
		h m s

Date and Station		Phase (GCT)
		h m s

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Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
June	
ALQ	
1	05.5
2	17.5
	17.8
3	17.2
	21.0
5	16.2
	19.5
	21.9
6	03.5
	20.7
	21.4
	23.5
7	09.6
	09.9
	15.4
	17.9
9	01.9
11	07.6
	19.6
12	19.2
	20.7
	22.8
13	02.2
	21.0
15	12.4
16	09.8
	22.8
17	10.2
	10.7
	14.7
	21.4
18	16.3
	21.2
19	14.7
	17.0
	21.5
	22.8
20	21.0
21	19.1
	20.5
22	04.7
	22.7
24	01.8
	03.4
	23.8
25	19.7
26	23.0
27	04.8
29	01.2
	05.1
	15.1
	20.6
June	
BCN	
6	17.4
8	20.8
10	19.5
12	16.5
13	15.8
14	20.0
19	19.7
	21.2
20	16.6
26	07.5
28	19.0

Date and Station	Phase (GCT)
	h m s
June	
BOZ	
26	01.6
June	
BUT	
21	11.7
22	10.5
	12.6
24	14.5
25	22.7
27	07.9
29	16.3
June	
COL	
2	14.5
4	13.3
	18.2
6	03.9
7	10.2
9	15.7
	18.7
11	09.2
12	14.7
	15.7
21	16.9
26	04.7
June	
EUR	
1	21.9
4	22.4
6	11.0
	17.4
8	08.6
	19.4
	20.8
10	19.5
11	19.2
12	16.5
21	15.5
	16.5
22	15.5
	16.5
	19.2
25	16.5
June	
FGU	
1	22.2
	23.8
2	02.4
	12.5
	22.0
	22.1
	23.6
3	12.7
	20.3
4	08.2
	11.9
	22.4
5	11.6
	13.7
	15.5
6	09.5
	23.6
8	10.4
9	18.1
	22.4
	23.0

Date and Station	Phase (GCT)
	h m s
June	
FGU (Con't.)	
10	02.8
	22.0
11	04.7
	18.5
12	02.1
	17.4
13	20.6
14	16.7
	22.5
	23.8
15	12.4
16	06.6
	11.9
	22.3
17	07.6
18	18.7
19	04.8
	17.3
20	16.3
	17.5
21	11.4
22	06.6
	22.1
24	02.1
	05.0
26	22.2
	22.4
27	23.0
28	10.3
	23.7(2)
29	02.0
	02.4
	16.7
30	19.9
	22.7
	23.3
June	
GCA	
1	08.6
	21.5
3	19.7
5	22.7(2)
6	01.5
11	19.2
13	02.0
	14.8
	16.0
	23.1
14	07.6
17	17.5
	24.0
18	10.4
19	00.9
June	
HHM	
1	03.6
	08.1
	10.2
	12.2
	16.6
	24.0
2	11.9
	12.4
	18.4
	18.6

Date and Station	Phase (GCT)
	h m s
June	
HHM (Con't.)	
3	01.4
4	07.8
	10.7
5	02.4
	04.4
	06.8
	09.8
	23.0
6	02.5
	03.8
7	00.8
	13.3
	15.9
	19.6
8	02.3
	11.0
	16.0
	16.4
9	06.1
	09.8
	14.3
	14.6
	15.6
	15.9
10	05.7
	06.6
	09.0
	09.6
	12.0
	20.7
11	10.5
	12.8
	12.9
	17.2
	22.2
12	00.3
	02.1
	06.6
	07.9
	11.9(2)
13	02.5
	12.4
	13.7
	14.4
	16.2
	18.4
	21.8
14	09.4
	24.0
15	01.2
16	04.6
	06.6
	07.4
	10.7
	12.1
	12.4
	14.9
	15.2
	16.0
17	15.2
23	09.0
24	05.3
25	17.0
26	14.9

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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 (Con't.)							
June		June					
HHM (Con't.)		TUC (Con't.)					
27	07.3	15	22.9				
	08.0	17	01.8				
28	15.7	23	03.7				
29	09.6		22.9				
	22.2	25	22.9				
30	05.3						
		June					
June		TUT					
RCD		2	18.2				
3	15.1		23.1				
4	16.8	3	07.0				
5	17.9		14.2				
	21.9	5	23.0				
6	00.3	8	04.2				
	00.5		13.2				
8	22.4		19.1				
13	17.7	9	08.9				
	19.9	11	19.2				
	22.2	17	01.8				
14	20.3	25	22.9				
15	21.2						
18	20.5	June					
	21.9	UKI					
19	18.9	8	19.7				
20	17.3	12	05.0				
		13	07.0				
June		15	14.4				
SLC		20	08.8				
1	23.2	23	21.5				
3	17.1	24	00.9				
5	00.6	30	19.5				
10	17.9						
11	14.5						
June							
SJP							
3	09.2						
6	18.0						
7	19.1						
10	23.6						
14	08.8						
21	00.7						
	02.7						
30	21.4						
	23.3						
June							
TUC							
1	05.5						
	05.6						
	06.0						
	06.7						
2	18.2						
	23.1						
3	07.0						
	14.2						
5	23.0						
8	04.2						
	13.2						
	13.7						
	19.1						
9	08.9						
	22.9						

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