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June, 1963

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COAST & GEODETIC SURVEY
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U. S. DEPARTMENT OF COMMERCE

John T. Connor, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

1963

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

Albuquerque, New Mexico (ALQ) WWNSS
**Balboa Heights, C. Z. (BHP) WWNSS
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. (CHK)
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) WWNSS
Honolulu, Hawaii (HON)
*Hungry Horse, Mont. (HHM)
Bureau of Reclamation
Kipapa, Hawaii (KIP) WWNSS
**Philadelphia, Pa. (PHI)
The Franklin Institute
**Rapid City, S. D. (RCD) WWNSS
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJP)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC) WWNSS
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.
WWNSS indicates the observatories are part of the World-Wide Network of Standard Seismographs.

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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.

Mag. (CGS) is m_b of Gutenberg and Richter computed from the P phase only. The magnitude quoted is an average value determined from data forwarded by cooperating Standard stations and other observatories. Mag. (PAS), (PAL), (BRK) are as reported by the respective stations.

All coordinates of epicenters, origin times and focal depths have been clculated 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. Requests for information on seismogram copies of the World-Wide Network observatories should be addressed to:

U. S. Department of Commerce
Coast and Geodetic Survey
Seismology Division
Washington Science Center
Rockville, Maryland 20852

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
1	02 07 38.2	46.7 N.	152.3 E.	Kurile Islands. h about 33 km. Mag. 4.5 (CGS).
1	09 23 17.4	20.3 S.	176.5 W.	Fiji Islands region. h about 31 km.
1	10 49 57.0	36.1 N.	71.2 E.	Afghanistan-U.S.S.R. border region. h about 100 km. Mag. 5.1 (CGS).
1	12 30 55.5	15.1 S.	172.5 W.	Samoa Islands region. h about 33 km. Mag. 5.0 (CGS).
1	14 37 01.7	15.1 S.	72.0 W.	Southern Peru. h about 123 km.
1	18 24 07.0	49.7 N.	109.7 E.	Chita region U.S.S.R. h about 33 km. Mag. 5.0 (CGS).
1	19 36 04.2	0.1 N.	123.1 E.	Northern Celebes. h about 143 km.
1	20 08 36.1	15.0 N.	119.8 E.	Luzon, Philippine Islands. h about 48 km. Mag. 4.9 (CGS).
1	20 36 09.0	39.0 N.	15.0 E.	Sicily. h about 280 km. Mag. 4.4 (CGS).
1	21 08 14.2	22.2 S.	169.6 E.	Loyalty Islands region. h about 13 km. Mag. 4.8 (CGS).
1	21 13 53.0	15.3 S.	173.4 W.	Tonga Islands. Felt at Apia. h about 33 km. Mag. 5.6 (CGS).
1	22 17 52.7	28.1 N.	139.0 E.	Bonin Islands region. h about 517 km. Mag. 4.4 (CGS).
1	23 44 55.1	21.3 S.	169.2 E.	Loyalty Islands region. h about 33 km. Mag. 4.3 (CGS).
2	01 16 27.1	17.6 N.	94.3 W.	Chiapas, Mexico. h about 129 km. Mag. 4.3 (CGS).
2	07 07 57.3	28.9 N.	94.8 E.	India-China border. h about 53 km. Mag. 4.9 (CGS).
2	10 00 00.1	6.2 S.	154.4 E.	Solomon Islands. Felt at Rabaul. h about 50 km. Mag. 5½-5¾ (PAL), 5.8 (CGS).
2	17 58 06.1	53.8 N.	163.6 W.	Unimak Island region. h about 13 km. Mag. 4.1 (CGS).
2	21 04 21.6	52.3 S.	15.3 W.	Southwestern Atlantic Ocean. h about 33 km. Mag. 6-6¼ (PAL), 5.9 (CGS).
2	21 07 07.5	33.6 S.	178.6 W.	South of Kermadec Islands. h about 33 km. Mag. 5.1 (CGS).
2	22 22 02.2	13.7 N.	90.7 W.	Near coast of Guatemala. h about 100 km. Mag. 5.1 (CGS).
2	22 26 20.4	8.3 N.	74.8 W.	Northern Colombia. h about 34 km. Mag. 4.8 (CGS).
3	04 44 12.8	19.1 S.	177.8 W.	Fiji Islands region. h about 527 km. Mag. 3.5 (CGS).
3	05 22 39*	18.2 N.	100.6 W.	Guerrero Mexico. h about 185 km.
3	05 47 17*	46.8 N.	152.9 E.	Kurile Islands. h about 90 km. Mag. 4.4 (CGS).
3	07 18 05.7	21.0 S.	175.6 W.	Tonga Islands. h about 37 km. Mag. 4.8 (CGS).
3	07 20 08.7	39.9 N.	143.1 E.	Off east coast of Honshu, Japan. h about 34 km. Mag. 4.5 (CGS).
3	07 35 50.6	34.1 N.	133.7 E.	Near south coast of Honshu, Japan. h about 21 km. Mag. 5.3 (CGS).
3	09 44 36.1	39.9 N.	141.9 E.	Off east coast of Honshu, Japan. h about 33 km. Mag. 4.1 (CGS).
3	13 31 50.5	5.4 N.	73.0 W.	Colombia. Slight damage in Bogota. h about 32 km. Mag. 5 (PAL), 5.0 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
3	12 18 26*	2.8 N.	72.7 W.	Colombia. h about 33 km.
3	12 34 42.3	39.2 N.	70.3 E.	Tadzhik SSR. h about 33 km. Mag. 4.7 (CGS).
3	12 44 03.9	29.9 S.	66.8 W.	La Rioja Province, Argentina. h about 245 km. Mag. 3.6 (CGS).
3	14 25 57.4	15.3 N.	91.5 W.	Mexico-Guatemala. h about 33 km. Mag. 4.2 (CGS).
3	14 43 00.5	4.7 S.	103.1 E.	Southern Sumatra. h about 104 km.
3	18 48 54.6	29.6 S.	177.8 W.	Kermadec Islands region. h about 49 km. Mag. 5.5 (CGS).
3	21 30 11.3	59.4 S.	27.2 W.	South Sandwich Islands region. h about 33 km. Mag. 5.6 (CGS).
4	00 01 17.3	3.4 S.	135.6 E.	West New Guinea region. h about 38 km.
4	03 15 27.6	6.8 S.	125.0 E.	Banda Sea. h about 572 km. Mag. 4.3 (CGS).
4	11 44 14.3	8.1 N.	126.6 E.	Mindanao, Philippine Islands. h about 175 km. Mag. 4.3 (CGS).
4	11 54 09.1	30.5 S.	177.8 W.	Kermadec Islands. h about 33 km. Mag. 5.1 (CGS).
4	13 05 54.9	30.6 S.	177.4 W.	Kermadec Islands region. h about 28 km. Mag. 5.2 (CGS).
4	14 44 05.7	4.8 S.	129.9 E.	Banda Sea. h about 193 km. Mag. 4.9 (CGS).
4	16 04 09.5	38.1 N.	121.0 E.	Northeastern China. h about 33 km.
4	19 21 54.8	18.9 N.	146.0 E.	Mariana Islands. h about 96 km. Mag. 5.6 (CGS).
4	20 28 47.5	18.1 N.	96.1 W.	Vera Cruz, Mexico. h about 111 km. Mag. 4.3 (CGS).
4	21 04 42.6	1.2 S.	127.3 E.	Halmahera. h about 33 km. Mag. 5.7 (CGS).
4	22 11 31.9	39.0 N.	20.5 E.	Greece. Felt. h about 34 km. Mag. 4.7 (CGS).
4	23 23 20*	0.8 S.	127.9 E.	Halmahera. h about 33 km.
4	23 54 55.0	38.9 S.	78.9 E.	Mid-Indian Rise. h about 33 km.
5	00 13 50.6	39.3 N.	104.0 W.	Colorado. Felt in Denver area. h about 33 km. Mag. 4.4 (CGS).
5	05 07 03.7	30.7 S.	177.6 W.	Kermadec Islands region. h about 70 km. Mag. 4.6 (CGS).
5	05 32 09.2	34.6 S.	81.5 E.	Indian Ocean. h about 33 km.
5	08 50 21*	19.7 S.	177.8 W.	Fiji Islands region. h about 528 km.
5	09 11 50.2	31.3 N.	142.6 E.	South of Honshu, Japan. h about 33 km. Mag. 4.8 (CGS).
5	10 12 08.1	14.9 S.	166.9 E.	New Hebrides Islands. Felt at Santo. h about 35 km. Mag. 5.0 (CGS).
5	11 20 07.6	3.5 S.	149.6 E.	Bismarck Sea. h about 33 km. Mag. 4.7 (CGS).
5	14 07 38.2	17.2 S.	176.8 W.	Fiji Islands region. h about 33 km. Mag. 4.5 (CGS).
5	14 47 22.1	28.6 S.	178.8 W.	Kermadec Islands. h about 190 km. Mag. 4.1 (CGS).
5	17 00 00.123			37°11'48" N., 116°01'46" W. Nevada Test Site. YUBA. Shot elevation=2023.8 meters (AEC).
5	22 41 03.2	2.8 S.	119.8 E.	Celebes. h about 75 km. Mag. 4.6 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
5	22 54 29.2	3.0 S.	119.6 E.	Celebes. h about 75 km.
6	05 18 54.9	19.9 N.	120.5 E.	Philippine Islands region. Felt at Dagupan. h about 33 km. Mag. 5.6 (CGS).
6	06 07 18.5	20.0 N.	120.6 E.	Philippine Islands region. h about 9 km. Mag. 4.7 (CGS).
6	08 05 36.3	36.5 N.	104.3 W.	Northern New Mexico. Felt. h about 33 km. Mag. 3.8 (CGS).
6	08 21 18.4	6.5 N.	94.6 E.	Nicobar Islands region. h about 90 km. Mag. 5.5 (CGS).
6	11 25 15.6	30.5 S.	177.6 W.	Kermadec Islands region. h about 80 km. Mag. 4.4 (CGS).
6	12 04 15.3	37.9 S.	78.0 E.	Mid-Indian Rise. h about 33 km. Mag. 5.3 (CGS).
6	14 00 00.130			37°02'39" N., 116°02'11" W. Nevada Test Site. HUTIA. Shot Elevation=1087.5 meters (AEC).
6	17 42 47.6	14.3 S.	167.3 E.	New Hebrides Islands. Felt at Santo. h about 165 km. Mag. 4.7 (CGS).
6	23 43 16.8	25.4 S.	180.0	South of Fiji Islands. h about 364 km. Mag. 4.5 (CGS).
7	00 20 51.8	24.1 S.	67.0 W.	Chile-Argentina border region. h about 180 km. Mag. 5.2 (CGS).
7	08 05 24*	1.9 S.	126.2 E.	Molucca Sea. h about 17 km.
7	12 04 40.7	38.0 N.	122.1 W.	Northern California. Slight damage in Antioch. h about 15 km. Mag. 4½ (BRK), 4.3 (CGS).
7	15 34 49.0	15.4 S.	178.8 W.	Fiji Islands region. h about 33 km. Mag. 4.9 (CGS).
7	15 50 00.8	18.9 N.	121.9 E.	Luzon, Philippine Islands. Felt at Dagupan. h about 66 km. Mag. 4.7 (CGS).
7	19 30 35.6	8.5 N.	103.1 W.	Clipperton Islands region. h about 33 km. Mag. 5½-5¾ (BRK), 5¼-5½ (PAL), 4.9 (CGS).
7	21 28 48.2	8.7 N.	102.8 W.	Off coast of Mexico. h about 33 km. Mag. 4.7 (CGS).
7	22 31 55.7	15.2 S.	172.8 W.	Samoa Islands region. h about 33 km. Mag. 4.6 (CGS).
7	22 37 30.3	15.5 S.	173.1 W.	Tonga Islands. h about 33 km. Mag. 5.0 (CGS).
8	01 01 51.9	15.3 S.	172.9 W.	Samoa Islands region. h about 33 km. Mag. 4.6 (CGS).
8	02 00 27.1	23.1 S.	171.5 E.	Loyalty Islands region. h about 10 km. Mag. 4.3 (CGS).
8	04 22 52.2	22.9 S.	13.5 W.	South Atlantic Ridge. h about 33 km. Mag. 4.9 (CGS).
8	05 34 06.9	5.5 S.	147.1 E.	East New Guinea region. h about 171 km. Mag. 5.1 (CGS).
8	08 51 56.5	40.6 N.	124.3 W.	Near coast of northern California. h about 33 km.
8	08 57 24.9	2.3 S.	77.8 W.	Peru-Ecuador border region. h about 33 km. Mag. 4.4 (CGS).
8	12 46 04.2	6.9 N.	73.2 W.	Northern Colombia. h about 140 km. Mag. 4.7 (CGS).
8	13 34 22.9	60.4 N.	153.6 W.	Southern Alaska. h about 174 km. Mag. 3.9 (CGS).
8	19 52 49.3	16.2 S.	177.2 W.	Fiji Islands region. h about 564 km.
8	21 55 41.3	78.4 N.	11.1 E.	Svalbard region. h about 33 km.
8	22 58 32*	14.5 S.	174.0 W.	Samoa Islands region. h about 33 km. Mag. 4.4 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
9	00 53 02.5	27.4 N.	138.0 E.	Bonin Islands region. h about 282 km. Mag. 4.2 (CGS).
9	01 30 32.0	23.5 S.	176.0 W.	South of Fiji Islands. h about 33 km. Mag. 4.6 (CGS).
9	03 57 54.6	17.4 S.	168.0 E.	New Hebrides Islands. Felt at Port Vila. h about 9 km. Mag. 4.1 (CGS).
9	07 09 28.8	51.0 N.	178.8 E.	Rat Islands region, Aleutian Islands. h about 70 km. Mag. 4.5 (CGS).
9	07 42 20.0	12.2 S.	166.9 E.	Santa Cruz Islands. h about 230 km. Mag. 4.5 (CGS).
9	09 02 23.0	6.4 N.	126.1 E.	Mindanao, Philippine Islands. h about 100 km. Mag. 4.9 (CGS).
9	09 39 06.9	77.9 N.	9.2 E.	Svalbard region. h about 63 km. Mag. 4.2 (CGS).
9	15 50 31.9	15.2 S.	173.0 W.	Tonga Islands. h about 33 km. Mag. 5.0 (CGS).
9	20 37 47.1	10.6 N.	41.8 W.	North Atlantic Ridge. h about 11 km. Mag. 5.2 (CGS).
10	04 16 38.4	55.3 S.	146.2 E.	West of Macquarie Island. h about 33 km. Mag. 6¼ (PAS), 5¾-6 (PAL), 6.1 (CGS).
10	05 02 34.5	18.6 S.	169.3 E.	New Hebrides Islands. h about 241 km. Mag. 4.1 (CGS).
10	05 14 15.9	55.3 S.	146.3 E.	West of Mazquarie Island. h about 33 km.
10	06 39 04.1	55.2 S.	146.1 E.	West of Macquarie Island. h about 19 km. Mag. 6¼-6½ (PAS), 6¼-6½ (PAL), 6.0 (CGS).
10	07 54 32.2	51.5 N.	178.5 W.	Andreanof Islands, Aleutian Island. h about 70 km. Mag. 4.6 (CGS).
10	09 38 16.0	21.3 S.	168.9 E.	Loyalty Islands. h about 33 km.
10	10 46 59.4	51.0 N.	160.1 E.	Kurile Islands region. h about 44 km. Mag. 5.9 (CGS).
10	12 19 55.1	4.6 S.	151.9 E.	New Britain region. Felt at Rabaul. h about 167 km. Mag. 5.4 (CGS).
10	18 42 06.5	5.1 S.	151.7 E.	New Britain region. Felt at Rabaul, Kambubu, Gavit and Sum Sum. h about 115 km. Mag. 5.0 (CGS).
10	18 50 54.1	36.5 N.	70.9 E.	Hindu Kush region. h about 192 km.
10	23 58 44.1	4.6 S.	152.9 E.	New Britain region. Felt at Kambubu. h about 72 km. Mag 5.2 (CGS).
11	03 25 41.5	37.1 N.	70.1 E.	Afghanistan-U.S.S.R. border region. h about 44 km. Mag. 5.4 (CGS).
11	04 15 52.3	59.9 N.	152.9 W.	Southern Alaska. h about 78 km. Mag. 4.7 (CGS).
11	13 08 31.5	63.2 N.	151.4 W.	Central Alaska. h about 36 km. Mag. 5.1 (CGS).
11	15 23 42.7	31.8 N.	116.2 W.	Baja California. Felt widely in southen California and Baja California. h about 33 km. Mag. 5 (PAS), 5.8 (CGS).
11	17 13 11.5	23.1 S.	179.8 W.	Fiji Islands. h about 550 km. Mag. 4.1 (CGS).
11	17 13 36.2	23.2 S.	179.7 W.	Fiji Islands. h about 550 km. Mag. 4.4 (CGS).
11	18 07 24.1	30.9 N.	87.3 E.	Tibet. h about 33 km. Mag. 4.5 (CGS).
11	18 34 11*	38.4 N.	69.5 E.	Tadzhik SSR. h about 32 km. Mag. 4.3 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal
June	h m s	°	°	
11	18 34 30.6	4.9 N.	77.5 W.	Near west coast of Colombia. h about 33 km. Mag. 4.4 (CGS).
12	02 50 55.3	30.8 N.	141.9 E.	South of Honshu, Japan. h about 13 km. Mag. 4.3 (CGS).
12	03 28 31.1	8.8 N.	126.3 E.	Mindanao, Philippine Islands. h about 144 km. Mag. 3.7 (CGS).
12	04 08 11.5	15.9 S.	174.1 W.	Tonga Islands. h about 149 km. Mag. 4.2 (CGS).
12	13 02 38.4	16.9 S.	173.5 W.	Tonga Islands. h about 33 km. Mag. 4.4 (CGS).
12	15 11 59.6	55.9 S.	27.5 W.	South Sandwich Islands region. h about 33 km. Mag. 5.2 (CGS).
12	22 15 15.3	31.5 N.	116.3 W.	Baja California. Felt in southern California, and Baja California. h about 33 km. Mag. 4-5 (PAS).
13	05 14 26.7	15.2 S.	173.2 W.	Tonga Islands. h about 33 km. Mag. 4.8 (CGS).
13	05 30 41*	22.8 S.	67.3 W.	Chile-Bolivia border. h about 33 km. Mag. 4.3 (CGS).
13	08 37 37.4	38.5 N.	14.9 E.	Sicily. h about 23 km. Mag. 4.7 (CGS).
13	10 34 49.7	6.1 S.	130.2 E.	Banda Sea. h about 125 km. Mag. 5.5 (CGS).
13	16 59 04.8	33.5 S.	72.2 W.	Off coast of central Chile. h about 38 km. Mag. 4.9 (CGS).
13	17 26 41.0	4.7 S.	153.2 E.	New Ireland region. Felt at Rabaul. h about 51 km. Mag. 5.3 (CGS).
13	18 48 35.4	31.1 N.	141.9 E.	South of Honshu, Japan. h about 65 km.
13	22 23 24*	13.0 S.	66.3 E.	Mid-Indian Rise. h about 31 km.
14	07 18 50.8	15.0 N.	93.1 W.	Near coast of Chiapas, Mexico. h about 33 km. Mag. 3.7 (CGS).
14	07 23 13.7	15.5 N.	93.5 W.	Near coast of Chiapas, Mexico. h about 150 km. Mag. 4.0 (CGS).
14	08 06 37.2	12.3 N.	143.8 E.	South of Mariana Islands. h about 33 km. Mag. 4.5 (CGS).
14	08 19 16.6	14.6 N.	93.4 W.	Near coast of Chiapas, Mexico. h about 33 km. Mag. 4.0 (CGS).
14	14 10 00.127			37°02'46" N., 116°01'06" W. Nevada Test Site. MATACO. Shot elevation=1031.7 meters (AEC).
14	15 37 01.2	75.7 N.	24.0 E.	Svalbard region. h about 33 km. Mag. 4.4 (CGS).
14	16 30 46.7	17.9 S.	178.5 W.	Fiji Islands region. h about 596 km. Mag. 4.3 (CGS).
14	19 23 51.5	38.7 S.	146.1 E.	Near southeast coast of Australia. h about 33 km.
14	23 37 45.1	50.8 N.	129.7 W.	Vancouver Island region. h about 11 km. Mag. 4.4 (CGS).
15	02 20 11.5	53.2 N.	167.0 W.	Fox Islands, Aleutian Islands. h about 33 km. Mag. 4.3 (CGS).
15	05 01 55.8	15.2 S.	177.7 W.	Fiji Islands region. h about 392 km. Mag. 4.6 (CGS).
15	12 52 05.4	51.1 N.	179.6 W.	Andreanof Islands, Aleutian Islands. h about 33 km. Mag. 4.4 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
15	13 15 50.6	45.0 N.	110.6 W.	Yellowstone National Park, Wyoming. h about 33 km. Mag. 4.1 (CGS).
15	15 30 37.7	36.3 S.	98.9 W.	Off coast of central Chile. h about 33 km. Mag. 4.9 (CGS).
15	21 47 10.2	55.5 S.	28.0 W.	South Sandwich Islands region. h about 33 km.
16	02 53 25.2	44.4 N.	135.5 E.	Near east coast of eastern Russia. h about 452 km. Mag. 3.7 (CGS).
16	03 35 52.6	22.7 S.	176.3 W.	South of Fiji Islands. h about 70 km. Mag. 4.0 (CGS).
16	04 43 40.9	42.4 N.	142.2 E.	Hokkaido, Japan region. h about 20 km. Mag. 4.0 (CGS).
16	06 27 15*	16.6 N.	100.3 W.	Near coast of Guerrero, Mexico. h about 33 km. Mag. 4.2 (CGS).
16	09 19 53.2	50.8 N.	129.5 W.	Vancouver Island region. h about 20 km. Mag. 5.1 (CGS).
16	13 48 59.7	4.5 S.	153.0 E.	New Ireland region. Felt at Rabaul. h about 72 km. Mag. 4.7 (CGS).
16	17 27 17.3	52.1 N.	179.0 E.	Rat Islands, Aleutian Islands. h about 140 km. Mag. 3.7 (CGS).
16	19 09 33.1	15.2 N.	61.4 W.	Leeward Islands. h about 156 km. Mag. 3.9 (CGS).
16	22 37 25.2	20.7 S.	66.4 W.	Southern Bolivia. h about 229 km. Mag. 3.9 (CGS).
17	02 04 55.6	17.5 S.	178.4 W.	Fiji Islands region. h about 510 km. Mag. 3.2 (CGS).
17	02 06 09.8	15.9 S.	177.8 W.	Fiji Islands region. h about 33 km. Mag. 4.4 (CGS).
17	10 17 15.0	44.1 N.	85.3 E.	Northern Sinkiang Province, China. h about 33 km.
17	10 23 00.1	45.0 N.	150.5 E.	Kurile Islands region. h about 33 km. Mag. 4.1 (CGS).
17	10 25 32.2	45.5 N.	150.4 E.	Kurile Islands. h about 33 km. Mag. 3.7 (CGS).
17	14 41 26.1	52.2 N.	173.5 W.	Andreanof Islands, Aleutian Islands. h about 70 km. Mag. 4.0 (CGS).
17	17 37 21.6	20.4 S.	177.4 W.	Fiji Islands region. h about 491 km. Mag. 4.9 (CGS).
17	18 30 54.3	65.7 S.	179.3 W.	South Pacific Cordillera. h about 33 km. Mag. 5.6 (CGS).
17	18 32 13.7	60.5 N.	140.8 W.	Southeastern Alaska. h about 28 km. Mag. $5\frac{1}{4}$-$5\frac{1}{2}$ (PAL), 5.4 (CGS).
17	20 08 37.4	20.4 S.	174.2 W.	Tonga Islands. h about 33 km. Mag. 5.3 (CGS).
17	23 02 06.1	4.1 S.	102.2 E.	Southern Sumatra. h about 69 km. Mag. 6.3 (CGS).
18	04 02 32.4	28.8 N.	130.0 E.	Ryukyu Islands. h about 53 km. Mag. 5.2 (CGS).
18	08 37 57.3	36.5 N.	70.6 E.	Hindu Kush region. h about 206 km. Mag. 4.0 (CGS).
18	09 30 45.1	15.5 S.	166.0 E.	New Hebrides Islands. h about 165 km.
18	12 46 44.6	9.2 N.	122.5 E.	Negros, Philippine Islands. h about 82 km.
18	13 09 34.6	18.3 N.	71.0 W.	Domonican Republic region. h about 33 km. Mag. 4.0 (CGS).
18	15 39 55*	5.3 S.	78.5 W.	Northern Peru. h about 33 km. Mag. 4.4 (CGS).
18	16 54 01.1	19.6 N.	65.7 W.	Puerto Rico region. h about 4 km. Mag. 4 (PAL), 4.5 (CGS).
18	23 14 23.9	12.6 N.	124.2 E.	Southern Luzon, Philippine Islands. h about 16 km. Mag. 4.6 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
19	02 15 54.1	23.6 S.	174.9 W.	Tonga Islands region. h about 55 km. Mag. 4.3 (CGS).
19	05 43 50.1	63.4 N.	151.2 W.	Central Alaska. h about 61 km. Mag. 3.7 (CGS).
19	08 38 47.5	37.9 N.	112.6 W.	Southern Utah. h about 33 km. Mag. 4.2 (CGS).
19	09 09 04.0	4.7 N.	126.5 E.	Talaud Islands region. h about 83 km. Mag. 5¼-5½ (PAL), 6.2 (CGS).
19	10 47 24.6	25.0 N.	92.1 E.	India-East Pakistan border region. h about 51 km. Mag. 5.9 (CGS).
19	11 30 48.2	44.7 N.	129.6 W.	Off coast of Oregon. h about 33 km. Mag. 4.6 (CGS).
19	11 58 55.1	9.3 S.	158.8 E.	Solomon Islands. Felt at Honiara. h about 33 km. Mag. 5.6 (CGS).
19	17 45 58.7	63.2 N.	146.2 W.	Central Alaska. h about 11 km. Mag. 4.3 (CGS).
19	18 22 09.7	3.6 S.	153.4 E.	New Ireland region. Felt at Rabaul. h about 278 km. Mag. 5.5 (CGS).
19	21 47 54.7	28.6 S.	69.6 W.	Chile-Argentina border region. h about 265 km. Mag. 4.1 (CGS).
19	23 01 55.9	31.7 N.	140.0 E.	South of Honshu, Japan. h about 62 km. Mag. 5½ (BRK), 5¼ (PAL), 5.5 (CGS).
20	00 56 02.2	36.4 N.	144.6 E.	Off east coast of Honshu, Japan. h about 15 km. Mag. 5.1 (CGS).
20	03 34 27.2	13.9 N.	89.5 W.	El Salvador. Felt. h about 43 km.
20	10 23 18.4	7.6 S.	74.7 W.	Peru-Brazil border region. h about 133 km. Mag. 3.9 (CGS).
20	12 00 05.3	31.6 N.	140.2 E.	South of Honshu, Japan. h about 33 km. Mag. 4.3 (CGS).
20	14 59 42.6	30.2 N.	114.1 W.	Gulf of California. h about 14 km. Mag. 4.5 (CGS).
20	19 47 40.0	35.6 N.	3.6 W.	Straits of Gibralter. h about 46 km. Mag. 4.5 (CGS).
20	20 42 17.1	2.3 S.	77.5 W.	Peru-Ecuador border region. h about 33 km. Mag. 4.1 (CGS).
20	22 46 18.8	28.0 S.	176.5 W.	Kermadec Islands. h about 48 km. Mag. 5.3 (CGS).
20	23 15 33.5	52.9 N.	168.6 W.	Fox Islands, Aleutian Islands. h about 33 km. Mag. 4.0 (CGS).
21	00 08 34.9	30.2 S.	177.4 W.	Kermadec Islands region. h about 104 km. Mag. 4.6 (CGS).
21	03 32 41.0	10.7 N.	85.8 W.	Costa Rica. h about 73 km. Mag. 5.0 (CGS).
21	04 02 53.7	15.0 N.	91.7 W.	Mexico-Guatemala border region. h about 219 km. Mag. 4.4 (CGS).
21	12 13 13.8	4.9 S.	81.2 W.	Near coast of northern Peru. h about 45 km. Mag. 4.1 (CGS).
21	12 18 24.4	23.8 S.	66.6 W.	Jujuy Province, Argentina. h about 203 km. Mag. 5.2 (CGS).
21	13 05 53.5	15.2 S.	173.0 W.	Tonga Islands. h about 33 km. Mag. 4.7 (CGS).
21	13 44 20.8	47.8 N.	130.5 E.	East Russia-Northeast China border region. h about 8 km. Mag. 5.0 (CGS).
21	14 10 16.7	13.1 S.	166.7 E.	New Hebrides Islands. h about 274 km. Mag. 4.6 (CGS).
21	14 30 16.2	2.6 N.	128.6 E.	Halmahera. h about 225 km.

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
21	15 26 29.3	24.9 N.	92.1 E.	India-East Pakistan border region. h about 53 km. Mag. 5.7 (CGS).
21	17 42 33.4	27.9 S.	176.3 W.	Kermadec Islands. h about 9 km. Mag. 4.8 (CGS).
21	19 48 45*	19.0 S.	168.9 E.	New Hebrides Islands. h about 75 km. Mag. 4.5 (CGS).
21	21 42 00.5	29.9 S.	177.1 W.	Kermadec Islands region. h about 47 km. Mag. 4.9 (CGS).
22	04 37 21.3	6.1 S.	154.4 E.	Solomon Islands. h about 58 km. Mag. 4.9 (CGS).
22	08 35 14.6	41.1 S.	90.3 W.	Southern Pacific Ocean. h about 25 km. Mag. 4.8 (CGS).
22	12 24 53.2	15.3 S.	172.9 W.	Samoa Islands region. h about 33 km. Mag. 4.2 (CGS).
22	16 12 14.0	6.0 S.	113.1 E.	Java Sea. h about 594 km. Mag. 5.2 (CGS).
22	16 21 30*	31.0 S.	68.3 W.	San Juan Province, Argentina. h about 129 km. Mag. 4.5 (CGS).
22	20 51 57.6	53.1 N.	121.1 E.	East Russia-northeast China border region. h about 33 km. Mag. 4.6 (CGS).
22	21 27 58.4	30.1 S.	177.2 W.	Kermadec Islands region. h about 33 km. Mag. 4.5 (CGS).
23	03 49 34.1	29.7 S.	177.9 W.	Kermadec Islands region. h about 52 km. Mag. 5.1 (CGS).
23	08 53 09.5	6.0 S.	146.6 E.	East New Guinea region. Felt at Saidor. h about 60 km. Mag. 5.3 (CGS).
23	09 03 49.1	37.6 N.	141.7 E.	Near east coast of Honshu, Japan. h about 42 km. Mag. 4.6 (CGS).
23	09 33 53.2	45.6 N.	14.9 E.	Yugoslavia. Felt at Karlovac. h about 33 km. Mag. 4.3 (CGS).
23	10 51 48.8	9.0 S.	113.1 E.	Off south coast of Java. h about 157 km.
23	11 07 31.0	23.9 S.	67.3 W.	Chile-Argentina border region. h about 204 km. Mag. 4.4 (CGS).
23	12 05 20.9	21.2 N.	108.2 W.	Revilla Gigedo Islands region. h about 33 km. Mag. 3.5 (CGS).
23	13 11 28.0	51.9 N.	131.5 W.	Queen Charlotte Islands region. h about 33 km. Mag. 4.5 (CGS).
23	18 27 11.3	12.3 N.	140.7 E.	West Caroline Islands. h about 36 km. Mag. 5.1 (CGS).
24	01 21 03.5	15.3 S.	69.4 W.	Peru-Bolivia border. h about 179 km. Mag. 4.0 (CGS).
24	02 59 17.5	10.6 S.	163.3 E.	Solomon Islands. h about 59 km. Mag. 4.8 (CGS).
24	04 26 37.9	59.5 N.	151.7 W.	Cook Inlet. Slight damage at Seldovia and Homer. h about 52 km. Mag. 6¾ (PAS), 5.7 (CGS).
24	05 43 48.0	59.4 N.	151.5 W.	Kenai Peninsula, Alaksa. h about 56 km. Mag. 4.8 (CGS).
24	06 18 59*	58.8 N.	154.3 W.	Alaska Peninsula. h about 33 km. Mag. 4.0 (CGS).
24	06 30 44.8	59.4 N.	152.2 W.	Southern Alaska. h about 44 km. Mag. 3.9 (CGS).
24	10 17 04.2	52.9 N.	131.7 W.	Queen Charlotte Islands region. h about 56 km. Mag. 4.0 (CGS).
24	13 17 48.3	25.6 S.	175.2 W.	South of Tonga Islands. h about 58 km. Mag. 5.0 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
23	14 18 31.4	59.1 N.	136.8 W.	Southeastern Alaska. Felt at Juneau. h about 33 km. Mag. 4.2 (CGS).
23	15 01 42.7	15.4 S.	177.6 W.	Fiji Islands region. h about 397 km. Mag. 5.1 (CGS).
24	16 17 15.7	52.2 N.	171.1 W.	Fox Islands, Aleutian Islands. h about 36 km. Mag. 5.4 (CGS).
24	16 25 56.4	52.4 N.	171.2 W.	Fox Islands, Aleutian Islands. h about 19 km. Mag. 4.1 (CGS).
24	16 52 05.9	52.2 N.	171.1 W.	Fox Islands, Aleutian Islands. h about 33 km. Mag. 4.5 (CGS).
24	18 56 40.6	4.7 S.	101.7 E.	Southern Sumatra. h about 10 km.
25	02 29 36.2	19.0 S.	177.5 W.	Fiji Islands region. h about 565 km. Mag. 4.1 (CGS).
25	02 46 51*	7.5 S.	155.9 E.	Solomon Islands. h about 92 km. Mag. 5.4 (CGS)
25	08 26 21.7	4[illegible].3 N.	129.1 W.	Off coast of Oregon. h about 32 km. Mag. 5.0 (CGS).
25	09 39 30.4	4[illegible].3 N.	129.0 W.	Off coast of Oregon. h about 43 km. Mag. 4.5 (CGS).
25	10 45 31.8	15.9 S.	75.2 W.	Near coast of Peru. h about 33 km. Mag. 4.2 (CGS).
25	11 43 36.2	8.5 N.	83.0 W.	Costa Rica. Felt at Boquete, Panama. h about 19 km. Mag. 4.5 (CGS).
25	14 32 09.9	8.8 S.	106.3 E.	South of Java. h about 42 km. Mag. 5.4 (CGS).
25	15 51 49.6	44.0 N.	110.0 W.	Yellowstone National Park, Wyoming. h about 33 km. Mag. 3.9 (CGS).
25	16 04 19.3	20.4 S.	176.1 W.	Tonga Islands region. h about 250 km. Mag. 4.3 (CGS).
25	23 00 00.123			37°07'53" N., 116°04'05" W. Nevada Test Site. KINNEBEC. Shot elevation=1075.0 meters (AEC).
26	00 59 11.2	7.1 N.	82.0 W.	South of Panama. h about 59 km. Mag. 4.4 (CGS).
26	01 33 52.1	32.8 S.	71.6 W.	Near coast of central Chile. h about 88 km. Mag. 4.1 (CGS).
26	04 40 24.5	55.3 N.	160.3 E.	Kamchatka. h about 5 km. Mag. 4.4 (CGS).
26	07 55 40.4	11.6 N.	142.9 E.	South of Mariana Islands. h about 44 km. Mag. 4.9 (CGS).
26	08 33 20.2	34.9 N.	142.1 E.	Near east coast of Honshu, Japan. h about 53 km. Mag. 4.2 (CGS).
26	09 41 37.8	4.6 N.	126.5 E.	Talaud Islands. h about 94 km. Mag. 5.0 (CGS).
26	10 27 02.8	35.4 N.	3.4 W.	Straits of Gibralter. h about 33 km. Mag. 4.6 (CGS).
26	14 09 19.7	36.4 N.	76.6 E.	Kashmir-Sinkiang border region. h about 95 km. Mag. 5.3 (CGS).
26	14 23 08*	6.8 N.	73.1 W.	Northern Colombia. h about 142 km. Mag. 4.5 (CGS).
26	16 51 41.6	23.6 S.	177.0 W.	South of Fiji Islands. h about 33 km. Mag. 4.8 (CGS).
26	17 21 57.3	24.3 N.	95.1 E.	Burma. h about 79 km. Mag. 5.4 (CGS).
26	17 42 42.2	7.0 N.	82.3 W.	South of Panama. Felt in Boquete and Bambito. h about 34 km. Mag. 6½-6¾ (PAS), 5½-5¾ (PAL), 6.0 (CGS).
27	00 06 14.1	18.5 S.	177.5 W.	Fiji Islands region. h about 402 km. Mag. 4.0 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
27	03 12 08.0	24.1 S.	66.0 W.	Salta Province, Argentina. h about 203 km. Mag. 4.4 (CGS).
27	06 06 37*	17.9 N.	94.8 W.	Chiapas, Mexico. h about 127 km. Mag. 3.7 (CGS).
27	07 08 01.8	60.5 N.	140.8 W.	Southeastern Alaska. h about 31 km. Mag. 5.9 (CGS).
27	07 23 14.9	23.2 S.	177.1 W.	South of Fiji Islands. h about 332 km. Mag. 4.5 (CGS).
27	08 12 54.9	15.9 S.	173.2 W.	Tonga Islands. h about 33 km. Mag. 4.8 (CGS).
27	11 46 54.7	8.4 S.	111.4 E.	Java. h about 151 km. Mag. 4.3 (CGS).
27	12 21 26.4	30.0 S.	177.9 W.	Kermadec Islands region. h about 59 km. Mag. 4.8 (CGS).
27	13 15 15.7	11.7 S.	77.6 W.	Near coast of Peru, h about 33 km. Mag. 4.2 (CGS).
27	15 08 06.0	39.1 N.	141.1 E.	Honshu, Japan. h about 79 km. Mag. 4.1 (CGS).
27	15 32 53.1	14.4 N.	93.7 E.	Andaman Islands region. h about 33 km. Mag. 5.2 (CGS).
27	23 25 03.5	48.1 N.	152.8 E.	Kurile Islands. h about 118 km. Mag. 4.2 (CGS).
28	00 33 00*	16.8 N.	96.0 W.	Near coast of Oaxaca, Mexico. h about 33 km. Mag. 3.6 (CGS).
28	02 28 50.7	27.5 S.	66.0 E.	South Indian Ocean. h about 28 km. Mag. 6.0 (CGS).
28	04 36 25.6	43.6 N.	146.5 E.	Kurile Islands. h about 43 km. Mag. 4.3 (CGS).
28	13 47 44.9	1.2 N.	97.3 E.	Northern Sumatra. h about 27 km. Mag. 5.0 (CGS).
28	15 15 08.0	67.2 N.	18.7 W.	North of Iceland. h about 33 km. Mag. 4.3 (CGS).
28	16 01 24.6	67.5 N.	18.7 W.	Off north coast of Iceland. h about 33 km. Mag. 4.4 (CGS).
28	21 55 36.8	46.7 N.	153.3 E.	Kurile Islands. h about 12 km. Mag. 6¼ (PAS), 6.2 (CGS).
28	22 15 28.6	46.7 N.	153.4 E.	Kurile Islands. h about 33 km. Mag. 4.7 (CGS).
28	22 21 57.6	45.8 N.	153.3 E.	Kurile Islands region. h about 33 km. Mag. 4.6 (CGS).
28	22 25 07.1	46.9 N.	153.6 E.	Kurile Islands. h about 47 km. Mag. 52 (CGS).
28	22 49 34.6	46.7 N.	153.1 E.	Kurile Islands. h about 33 km. Mag. 4.5 (CGS).
28	22 57 01.5	46.7 N.	153.4 E.	Kurile Islands. h about 11 km. Mag. 5.4 (CGS).
28	23 17 00.1	5.0 S.	144.4 E.	Near north coast of New Guinea. h about 119 km. Mag. 4.8 (CGS).
28	23 53 56.6	46.6 N.	153.5 E.	Kurile Islands. h about 33 km. Mag. 5.4 (CGS).
29	02 21 46.5	46.5 N.	153.5 E.	Kurile Islands. h about 30 km. Mag. 4.8 (CGS).
29	03 22 09.3	8.5 S.	160.4 E.	Solomon Islands. h about 33 km. Mag. 4.7 (CGS).
29	04 07 16.1	46.3 N.	153.4 E.	Kurile Islands. h about 80 km, Mag. 4.7 (CGS).
29	05 38 59.8	46.5 N.	153.4 E.	Kurile Islands. h about 55 km. Mag. 4.7 (CGS).
29	08 09 31.8	40.3 N.	126.4 W.	Off coast of northern California. h about 33 km. Mag. 4.7 (CGS).
29	08 30 17.1	8.7 S.	119.8 E.	Flores Island region. h about 75 km.
29	12 43 46.3	11.7 N.	142.6 E.	South of Mariana Islands. h about 24 km. Mag. 5.3 (CGS).
29	13 04 23.0	1[illegible].7 N.	142.6 E.	South of Mariana Islands. h about 33 km. Mag. 5.0 (CGS).
29	13 14 04.0	46.7 N.	153.7 E.	Kurile Islands. h about 24 km. Mag. 5.0 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
June	h m s	°	°	
29	13 19 03.1	11.7 N.	142.4 E.	South of Mariana Islands. h about 33 km. Mag. 4.9 (CGS).
29	14 20 56.3	46.1 N.	153.2 E.	Kurile Islands region. h about 33 km. Mag. 4.4 (CGS).
29	17 38 00.5	11.2 S.	163.5 E.	Solomon Islands. h about 33 km. Mag. 4.7 (CGS).
29	18 42 14.5	46.8 N.	153.4 E.	Kurile Islands. h about 19 km. Mag. 4.9 (CGS).
29	20 16 38.5	46.7 N.	153.4 E.	Kurile Islands. h about 8 km. Mag. 4.8 (CGS).
29	22 02 13.0	27.8 N.	141.8 E.	Bonin Islands region. h about 21 km. Mag. 5.0 (CGS).
29	23 00 09*	16.8 S.	172.9 W.	Tonga Islands region. h about 33 km. Mag. 4.5 (CGS).
30	00 05 46.7	35.4 N.	23.7 E.	Mediterranean Sea. h about 33 km. Mag. 4.4 (CGS).
30	00 42 21.5	46.6 N.	153.4 E.	Kurile Islands. h about 20 km. Mag. 4.6 (CGS).
30	01 39 05.2	11.8 N.	142.5 E.	South of Mariana Islands. h about 33 km. Mag. 4.8 (CGS).
30	02 04 35.9	22.0 S.	170.9 E.	Loyalty Islands region. h about 66 km. Mag. 4.8 (CGS).
30	03 59 15.6	36.5 N.	70.5 E.	Hindu-Kush region. h about 205 km. Mag. 4.4 (CGS).
30	04 19 12.3	1[illegible].7 N.	142.5 E.	South of Mariana Islands. h about 4 km. Mag. 4.9 (CGS).
30	05 19 08.7	64.5 N.	146.8 W.	Central Alaska. h about 19 km. Mag. 4.6 (CGS).
30	06 45 38.7	2.6 S.	102.5 E.	Southern Sumatra. h about 181 km. Mag. 5.4 (CGS).
30	07 38 57.9	47.1 N.	152.4 E.	Kurile Islands region. h about 79 km. Mag. [illegible] (CGS).
30	07 41 07.[illegible]	33.2 N.	49.2 E.	Western Iran. Extensive damage. h about 38 km. Mag. 5.1 (CGS).
30	11 09 49.8	7.3 S.	75.2 W.	Northern Peru. h about 43 km. Mag. 4.3 (CGS).
30	12 43 56.5	[illegible].8 S.	77.9 W.	Peru. h about 94 km. Mag. 4.2 (CGS).
30	15 33 53.4	7.4 N.	72.9 W.	Northern Colombia. h about 103 km. Mag. 3.5 (CGS).
30	16 31 15.1	46.7 N.	153.2 E.	Kurile Islands region. h about 33 km. Mag. 4.2 (CGS).
30	22 04 52.7	46.7 N.	153.6 E.	Kurile Islands. h about 22 km. Mag. 5.0 (CGS).

Date and Station	Phase (GCT)
	h m s
JUN 01	
BUT E(P)	00 04 49.9
MAY 31	
H-23 58 52.2	
15.3S 173.4W	
h ABOUT 061KM	
KIP IP	00 06 18.4
HON IS	00 12 22.0
EL	14 54.0
BCN EP	00 10 27.4
TUC IP	00 10 36.2
EUR IP	00 10 37.1
ALQ IP	00 11 01.0
BUT EP	00 11 07.4
COL IP	00 11 07.7
HHM EP	00 11 08.3
BOZ EP	00 11 10.5
JUN 1	
H-02 07 38.2	
46.7N 152.3E	
h ABOUT 033KM	
COL EP	02 14 42.0
I	14 56.0
EUR IP	02 18 08.8
ALQ EP	02 19 03.0
I	19 18.8
JUN 01	
BCN EP	04 06 56.8
E	10 13.2
JUN 01	
COL EP	07 35 59.8
JUN 01	
SJP E(P)	09 02 35.0
JUN 1	
H-09 23 17.4	
20.3S 176.5W	
h ABOUT 031KM	
COL EP	09 35 59.6
JUN 01	
BCN E(P)	09 56 46.0
E	57 43.0
ALQ E(P)	09 57 04.0
TUC EP	09 57 09.0
EUR EP	09 57 36.5
JUN 1	
H-10 49 57.0	
36.1N 071.2E	
h ABOUT 100KM	

Date and Station	Phase (GCT)
	h m s
COL IP	11 01 27.7
IPP	01 55.0
E	05 30.0
EUR IP	11 03 55.4
JUN 01	
BOZ EP	11 40 36.1
BUT EP	11 40 52.2
ES	41 17.7
JUN 1	
H-12 30 55.5	
15.1S 172.5W	
h ABOUT 033KM	
BCN EP	12 42 34.4
E	42 43.8
TUC E(P)	12 42 38.0
EUR IP	12 42 38.9
ALQ EP	12 43 04.0
BUT EP	12 43 10.7
HHM EP	12 43 11.5
COL IP	12 43 13.5
BOZ E(P)	12 43 14.0
JUN 01	
KIP E	12 50 24.0
JUN 01	
HHM E(P)	15 47 50.0
ES	48 22.0
JUN 01	
EUR EP	17 47 37.4
JUN 01	
H-18 24 07.0	
49.7N 109.7E	
h ABOUT 033KM	
COL EP	18 33 07.1
EUR E(P)	18 36 28.4
E	40 23.4
JUN 01	
EUR EP	18 48 04.9
JUN 01	
ALQ E(P)	19 52 15.0
JUN 1	
H-20 08 36.1	
15.0N 119.8E	
h ABOUT 048KM	
COL EP	20 20 29.0
JUN 1	
H-20 36 09.0	
39.0N 015.0E	
h ABOUT 280KM	
EUR EP	20 48 38.7

Date and Station	Phase (GCT)
	h m s
JUN 01	
EUR EP	20 37 30.4
E	38 03.9
JUN 01	
HHM EP	20 41 59.9
JUN 01	
ALQ E(P)	21 00 57.0
JUN 1	
H-21 08 14.2	
22.2S 169.6E	
h ABOUT 013KM	
BCN EP	21 21 24.6
COL EP	21 21 25.2
EUR EP	21 21 26.6
JUN 1	
H-21 13 53.0	
15.3S 173.4W	
h ABOUT 033KM	
KIP IP	21 21 22.1
HON E(P)	21 21 24.0
E(PP)	23 03.0
ES	27 23.0
EL	29 42.0
BCN EP	21 25 34.0
EUR IP	21 25 39.9
TUC IP	21 25 40.5
SLC IP	21 26 00.0
COL IP	21 26 11.3
I	26 52.0
HHM EP	21 26 12.7
BOZ EP	21 26 15.5
JUN 01	
BOZ E(P)	21 23 25.1
JUN 01	
EUR EP	22 11 12.4
JUN 1	
H-22 17 52.7	
28.1N 139.0E	
h ABOUT 517KM	
COL EP	22 26 54.4
EUR EP	22 29 25.3
JUN 01	
BUT EP	22 26 10.5
JUN 01	
BOZ EP	22 28 59.4
E	31 23.1
JUN 01	
COL IP	22 53 25.4

Date and Station	Phase (GCT)
	h m s
JUN 01	
SLC EP	23 06 53.4
E	08 51.4
JUN 01	
EUR EP	23 09 26.1
EL	10 24.0
JUN 01	
SLC E(P)	23 14 00.4
JUN 1	
H-23 44 55.1	
21.3S 169.2E	
h ABOUT 033KM	
EUR EP	23 58 03.0
JUN 02	
SJP EP	01 11 39.8
EL	12 21.3
JUN 02	
SIT EP	01 13 16.2
ES	13 46.7
JUN 2	
H-01 16 27.1	
17.6N 094.3W	
h ABOUT 129KM	
ALQ EP	01 20 55.5
EPP	21 24.0
TUC E(P)	01 21 01.0
EUR IP	01 22 15.0
E	22 24.9
EPCP	25 20.3
COL IP	01 26 14.0
EPP	26 49.0
IPCP	27 00.0
E	27 14.0
E	27 39.0
JUN 02	
EUR EP	01 46 22.5
JUN 02	
EUR E(P)	03 31 13.7
E	31 33.3
JUN 02	
COL IP	03 51 34.1
TUC E(P)	03 52 00.0
EUR E(P)	03 53 54.3
I	53 58.8
JUN 02	
TUC E(P)	04 05 35.0
ALQ E(P)	04 06 34.9
E	07 33.1
E	09 07.0
EUR EP	04 07 35.3
E	12 09.2
JUN 02	
EUR EP	04 21 44.8
E	21 57.3

Date and Station	Phase (GCT)
	h m s
JUN 02	
ALQ IP	05 07 48.0
JUN 02	
EUR EP	05 12 20.0
JUN 02	
BOZ E(P)	06 07 30.0
ES	07 41.0
JUN 2	
H-07 07 57.3	
28.9N 094.8E	
h ABOUT 053KM	
COL E(P)	07 19 26.5
JUN 02	
EUR E(P)	08 22 23.2
JUN 2	
H-10 00 00.1	
6.2S 154.4E	
h ABOUT 050KM	
HON E(P)	10 09 23.0
ES	17 11.0
EL	22 18.0
COL EP	10 12 16.7
EUR EP	10 13 12.8
E	14 07.2
BCN EP	10 13 17.0
E	13 24.0
HHM EP	10 13 19.8
ALQ EP	10 13 48.0
I	13 49.0
E	13 56.0
EPP	17 54.9
JUN 02	
COL EP	11 10 01.0
EUR EP	11 10 31.1
E	10 54.0
JUN 02	
EUR EP	12 27 38.3
EL	28 28.0
ALQ E(P)	12 28 18.0
JUN 02	
EUR EP	13 13 09.7
JUN 02	
EUR EP	16 45 15.5
JUN 02	
EUR EP	16 52 48.8
E	53 05.0
JUN 02	
EUR EP	16 59 43.5
E	59 48.0
JUN 2	
H-17 58 06.1	
53.8N 163.6W	
h ABOUT 013KM	

Date and Station	Phase (GCT)
	h m s
COL EP	18 01 22.0
EUR EP	18 05 00.4
BCN EP	18 05 26.3
E	05 42.3
ALQ E(P)	18 06 12.5
JUN 02	
HHM IP	19 34 10.4
I	34 39.4
JUN 02	
ALQ E(P)	20 45 55.5
JUN 2	
H-21 04 21.6	
58.3S 015.3W	
h ABOUT 033KM	
BHP P	21 16 53.0
SJP IP	21 17 04.0
ES	27 50.0
SLC E(P')	21 23 02.2
E	23 36.0
ALQ EP'	21 23 08.0
I	26 05.0
EPKKP	33 21.1
TUC EP'	21 23 08.5
HHM E(P')	21 23 12.4
EUR EP'	21 23 13.3
I	23 30.4
EPP	25 16.8
BCN EP'	21 23 19.2
BUT EP'	21 23 29.3
HHM EP'	21 23 33.8
COL EP'	21 24 11.0
EP'	24 44.0
EPP	28 17.0
HON	21 27 06.0
EL	22 01 16.0
JUN 2	
H-21 07 07.5	
33.6S 178.6W	
h ABOUT 033KM	
TUC EP	21 20 15.0
EUR EP	21 20 19.8
JUN 02	
EUR EP	21 48 11.3
JUN 2	
H-22 22 02.2	
13.7N 090.7W	
h ABOUT 100KM	
BHP P	22 24 50.0
CSC EP	22 26 50.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	22 27 22.0
IPCP	30 55.0
TUC EP	22 27 28.0
BCN EP	22 28 13.9
IPCP	31 08.7
SLC I(P)	22 28 37.9
EUR IP	22 28 38.4
BUT EP	22 29 05.2
EPCP	31 25.2
HHM EP	22 29 24.9
IPCP	31 22.0
COL IP	22 32 25.6
JUN 02	
HHM EP	22 24 02.4
JUN 2	
H-22 26 20.4	
8.3N 074.8W	
h ABOUT 034KM	
BHP P	22 27 32.0
S	28 21.0
SJP EP	22 29 26.8
E	29 55.0
ES	31 52.0
EUR EP	22 34 59.7
JUN 02	
EUR EP	23 05 51.7
JUN 02	
EUR EP	23 23 02.7
E	24 14.5
JUN 3	
H-04 44 12.8	
19.1S 177.8W	
h ABOUT 527KM	
EUR EP	04 55 38.0
JUN 3	
H-05 22 38.8	
18.2N 100.6W	
h ABOUT 185KM	
EUR E(P)	05 27 46.0
JUN 03	
H-05 47 16.7	
46.8N 152.9E	
h ABOUT 080KM	
COL IP	05 54 13.2
EUR EP	05 57 39.5
JUN 03	
BOZ EP	06 07 31.5
ES	07 42.7
BUT EP	06 07 44.0
IS	08 05.2

Date and Station	Phase (GCT)
	h m s
FGU EP	06 08 27.7
E	09 15.7
EUR E(P)	06 09 54.5
EL	10 21.5
JUN 03	
SJP EP	06 43 21.0
ES	43 38.2
JUN 03	
SJP IP	07 05 16.9
ES	05 51.0
JUN 03	
H-07 18 05.7	
21.0S 175.6W	
h ABOUT 037KM	
EUR EP	07 30 22.5
ALQ EP	07 30 44.9
JUN 3	
H-07 20 08.7	
39.9N 143.1E	
h ABOUT 034KM	
COL EP	07 28 29.6
BUT EP	07 31 24.2
EUR EP	07 31 36.9
I	31 46.7
ALQ IP	07 32 26.5
JUN 3	
H-07 35 50.6	
34.1N 138.7E	
h ABOUT 021KM	
COL IP	07 45 05.9
EPCP	45 55.0
IPP	47 06.0
E	47 43.0
KIP E(P)	07 45 39.0
ES	53 38.0
EL	08 01 24.0
HHM EP	07 47 37.1
BUT EP	07 47 48.2
SLC IP	07 48 07.9
BCN EP	07 48 13.4
TUC E(P)	07 48 36.0
ALQ IP	07 48 43.0
EUR IP	07 47 58.2
IPCP	49 01.4
EPP	50 57.2
E	51 05.4
HON FS	07 53 37.0
E	56 54.0
EL	59 12.0

Date and Station	Phase	Phase (GCT)
		h m s
JUN 03		
BUT	EP	07 39 28.2
	ES	39 50.2
JUN 03		
BUT	EP	08 10 18.2
	IS	10 40.2
EUR	E(P)	08 11 25.9
	EL	13 14.0
JUN 03		
ALQ	E(P)	08 56 16.1
JUN 03		
SJP	IP	09 19 09.0
JUN 3		
H-09 44 36.1		
39.9N 144.9E		
h ABOUT 033KM		
EUR	EP	09 55 58.7
	I	56 08.3
ALQ	E(P)	09 56 47.0
JUN 03		
COL	EP	09 46 33.0
JUN 03		
COL	E(P)	09 51 06.0
	F	51 15.0
JUN 03		
ALQ	EP	11 09 43.0
JUN 3		
H-11 31 50.5		
5.4N 073.0W		
h ABOUT 032KM		
BHP	EP	11 33 39.0
	E(S)	34 37.0
SJP	EP	11 35 16.0
CSC	E(P)	11 37 59.0
	ES	42 50.0
ALQ	IP	11 39 47.0
TUC	IP	11 39 59.3
BCN	EP	11 40 38.0
SLC	IP	11 40 40.1
EUR	IP	11 40 55.6
	IPCP	41 56.3
	I	42 13.3
	EPP	42 48.3
	F	43 06.3
	ISCP	46 04.3
	E	46 20.3
	E	48 39.3
BUT	EP	11 41 06.2
COL	IP	11 43 50.0
HON	E(S)	11 54 47.0
	EL	12 06 58.0

Date and Station	Phase	Phase (GCT)
		h m s
JUN 03		
EUR	EP	11 51 51.1
	E	52 06.0
JUN 03		
H-12 18 26.0		
02.8N 072.7W		
h ABOUT 033KM		
ALQ	E(P)	12 26 35.0
EUR	EP	12 27 47.3
JUN 3		
H-12 34 42.3		
39.2N 070.3E		
h ABOUT 033KM		
COL	EP	12 46 03.0
JUN 03		
EUR	EP	12 37 48.8
	E	38 25.3
JUN 3		
H-12 44 03.9		
29.9S 066.8W		
h ABOUT 245KM		
ALQ	EP	12 55 17.7
EUR	EP	12 56 03.8
JUN 3		
H-14 25 57.4		
15.3N 091.5W		
h ABOUT 033KM		
ALQ	EP	14 31 08.0
EUR	IP	14 32 24.8
JUN 03		
EUR	EP	14 35 46.2
JUN 03		
COL	EP	15 14 37.0
EUR	EP	15 14 37.2
JUN 03		
ALQ	EP	15 41 57.8
JUN 03		
EUR	EP	15 53 48.2
	ES	54 10.6
JUN 03		
EUR	EP	17 18 55.9
	EL	19 34.2
JUN 03		
SJP	IP	17 45 45.2
	ES	46 07.2
JUN 03		
ALQ	EP	18 35 31.0
JUN 03		
ALQ	IP	18 37 26.0

Date and Station	Phase	Phase (GCT)
		h m s
JUN 3		
H-18 48 54.6		
29.6S 177.8W		
h ABOUT 049KM		
TUC	EP	19 01 43.0
EUR	EP	19 01 47.9
JUN 03		
COL	EP	19 01 08.0
JUN 03		
EUR	EP	19 21 22.3
JUN 03		
ALQ	EP	19 49 47.0
	E	50 47.0
TUC	EP	19 49 49.0
EUR	EP	19 51 03.1
JAN 03		
COL	IP	19 55 01.9
JUN 03		
TUC	EP	20 32 31.0
JUN 3		
H-21 30 11.3		
59.4S 027.2W		
h ABOUT 033KM		
EUR	EP'	21 49 04.8
	EPP	50 39.5
COL	IP'	21 50 03.0
JUN 03		
EUR	EP	21 54 33.5
	EL	55 11.4
JUN 03		
EUR	EP	21 59 00.0
JUN 03		
SJP	IP	22 20 37.5
	IS	20 50.5
EUR	IP	22 25 16.9
JUN 03		
EUR	E(P)	23 26 43.6
	EL	27 23.0
JUN 03		
SLC	IP	23 44 52.5
	IS	45 17.7
EUR	E(P)	23 45 41.5
	IL	46 18.3
JUN 04		
COL	E(P)	00 12 47.0
JUN 04		
ALQ	IP	00 53 44.8
JUN 4		
H-03 15 27.6		
06.8S 125.0E		
h ABOUT 572KM		

Date and Station	Phase	Phase (GCT)
		h m s
EUR	IP'	03 33 09.9
JUN 04		
EUR	I(P)	03 18 10.0
JUN 04		
SJP	IP	04 15 53.1
	IS	16 14.5
JUN 04		
SJP	IP	04 24 13.0
	IS	24 26.4
ALQ	EP	04 31 27.0
EUR	EP	04 32 32.7
JUN 04		
COL	EP	05 24 26.0
	E	25 27.0
JUN 04		
SIT	IP	07 39 32.0
	IS	39 40.4
JUN 04		
COL	IP	09 58 12.0
	E(S)	10 00 04.0
JUN 04		
ALQ	E(P)	10 04 40.0
JUN 04		
EUR	EP	10 04 54.0
JUN 04		
BCN	IP	11 37 41.0
JUN 4		
H-11 44 14.3		
08.1N 126.6E		
h ABOUT 175KM		
COL	E(P)	11 56 17.0
JUN 04		
H-11 54 09.1		
30.5S 177.8W		
h ABOUT 033KM		
TUC	EP	12 07 01.5
	E	07 14.0
	EPKKP	24 41.0
BCN	EP	12 07 02.0
ALQ	EP	12 07 22.1
	EPKKP	24 29.0
COL	EP	12 07 40.0
KIP	E(S)	12 11 21.0
	EL	20 07.0
HON	ES	12 11 30.0
	EL	19 28.0
JUN 4		
H-13 05 54.9		
30.6S 177.4W		
h ABOUT 028KM		
BCN	EP	13 18 48.4
	E	18 59.8

Date and Station	Phase (GCT)
	h m s
TUC IP	13 18 49.2
I	19 00.8
ALQ EP	13 19 08.5
JUN 04	
COL FP	14 25 29.9
E(S)	26 28.8
JUN 4	
H-14 44 05.7	
4.8S 129.9E	
h ABOUT 193KM	
COL EP	14 56 49.0
JUN 4	
H-16 04 09.5	
38.1N 121.0E	
h ABOUT 033KM	
COL E(P)	16 13 52.0
JUN 04	
EUR EP	16 25 07.2
F	25 13.5
JUN 04	
EUR EP	16 41 48.0
JUN 04	
CSC E(P)	18 02 00.0
JUN 04	
BOZ E(P)	18 19 54.0
JUN 4	
H-19 21 54.8	
18.9N 146.0E	
h ABOUT 096KM	
GUA IP	19 23 15.9
COL IP	19 32 12.8
EUR IP	19 34 17.5
BOZ EP	19 34 23.0
E(pP)	34 56.0
BCN IP	19 34 28.6
EpP	34 58.1
TUC IP	19 34 48.9
ALQ IP	19 34 59.2
EpP	35 27.0
JUN 4	
H-20 28 47.5	
18.1N 096.1W	
h ABOUT 111KM	
ALQ IP	20 33 03.0
E	33 22.0
TUC EP	20 33 04.9
CSC E(P)	20 33 32.0
BCN EP	20 33 57.0
E	34 25.0

Date and Station	Phase (GCT)
	h m s
EUR EP	20 34 23.8
E	34 42.4
I	35 00.3
COL I(P)	20 38 20.2
EPCP	39 22.5
JUN 04	
EUR EP	20 39 56.6
JUN 04	
TUC E(P)	21 00 40.3
JUN 4	
H-21 04 42.6	
1.2S 127.3E	
h ABOUT 033KM	
KIP EP	21 16 33.0
ES	26 20.0
EL	36 18.0
HON E(P)	21 16 34.0
IS	26 19.0
EL	36 38.0
COL EP	21 17 35.0
EPP	21 02.0
EUR E(P)	21 19 21.9
E	19 34.9
IP'	23 16.9
EPP	23 54.0
ESKS	29 34.5
EPKKP	36 32.9
BOZ EP'	21 23 19.0
EPP	24 04.0
TUC EP'	21 23 28.1
I	23 39.0
IPP	24 37.2
ALQ IP'	21 23 33.0
I	23 43.9
BCN E(P')	21 23 46.0
EPP	24 10.0
CSC EP'	21 24 03.0
EPP	26 51.0
BHP EP'	21 24 32.0
JUN 04	
TUC E(P)	21 08 12.2
JUN 04	
EUR E(P)	21 33 45.4
BOZ E(P)	21 34 15.0
JUN 04	
EUR E(P)	21 34 22.4
JUN 4	
H-22 11 31.9	
39.0N 020.5E	
h ABOUT 034KM	
COL EP	22 23 23.0
BOZ E(P)	22 24 08.0

Date and Station	Phase (GCT)
	h m s
EUR EP	22 24 41.9
JUN 04	
WAS EP	22 24 04.0
E	26 45.0
JUN 04	
BOZ EP	22 35 58.5
EUR EP	22 36 45.4
JUN 04	
CSC EP	22 42 49.0
JUN 4	
H-23 54 55.0	
38.9S 078.9E	
h ABOUT 033KM	
COL IP'	24 14 11.3
JUN 05	
H-00 13 50.6	
39.3N 104.0W	
h ABOUT 033KM	
FGU EP	00 14 55.5
I	15 01.8
IS	15 48.3
ALQ E(P)	00 15 29.1
EUR EP	00 16 06.7
JUN 05	
EUR EP	00 20 20.3
JUN 05	
BCN EP	00 25 29.7
EL	26 04.5
EUR EP	00 26 09.1
IL	27 41.0
JUN 05	
EUR EP	00 46 40.4
E	47 50.3
JUN 05	
EUR EP	00 51 49.8
JUN 05	
H-05 07 03.7	
30.7S 177.6W	
h ABOUT 070KM	
BCN E(P)	05 19 50.0
EpP	20 07.6
TUC EP	05 19 52.5
EUR E(P)	05 19 58.0
ALQ EP	05 20 13.0
JUN 05	
BCN EP	05 20 56.8
E	21 15.3
TUC E(P)	05 20 57.0
E	21 17.2
EUR E(P)	05 21 04.5
E	21 23.0

Date and Station	Phase (GCT)
	h m s
JUN 05	
BCN EP	05 21 57.8
JUN 05	
ALQ E(P)	05 51 58.5
E	53 35.0
EUR EP	05 52 57.5
JUN 05	
WAS EP	05 57 06.0
E	57 20.0
EUR EP	05 57 02.5
JUN 05	
EUR EP	08 05 58.6
JUN 5	
H-08 50 21.2	
19.7S 177.8W	
h ABOUT 528KM	
EUR E(P)	09 01 50.4
JUN 5	
H-09 11 50.2	
31.3N 142.6E	
h ABOUT 033KM	
COL IP	09 21 09.1
EUR IP	09 23 51.2
I	24 05.4
E(PP)	27 07.4
BCN EP	09 24 05.4
TUC EP	09 24 29.0
ALQ EP	09 24 37.0
JUN 05	
EUR IP	09 18 25.4
ES	18 48.9
JUN 5	
H-10 12 08.1	
14.9S 166.9E	
h ABOUT 035KM	
COL IP	10 24 48.0
BCN EP	10 25 04.1
E	28 36.1
EUR IP	10 25 04.7
E	27 15.3
EPP	28 35.8
E	29 58.5
TUC EP	10 25 13.0
BOZ EP	10 25 25.0
ALQ E(P)	10 25 31.0
HON E	10 28 36.0
EL	34 05.0
JUN 5	
H-11 20 07.6	
03.5S 149.6E	
h ABOUT 033KM	

Date and Station	Phase	Phase (GCT) h m s
COL	EP	11 32 26.0
EUR	EP	11 33 33.1
	E	33 42.0
HHM	E(P)	11 33 43.0
HON	E	11 38 03.0
	EL	46 12.0
JUN 05		
EUR	EP	11 23 33.3
	E	23 53.1
JUN 05		
BOZ	EP	11 37 09.4
JUN 05		
FUR	FP	11 56 34.3
JUN 05		
EUR	EP	12 17 59.8
COL	IP	12 18 10.5
	I	18 21.0
ALQ	E(P)	12 18 26.0
JUN 05		
EUR	EP	12 34 37.8
JUN 05		
COL	EP	12 45 13.0
FUR	EP	12 46 25.3
JUN 05		
TUC	E(P)	14 04 31.5
JUN 5		
H-14 07 38.2		
17.2S 176.8W		
h ABOUT 033KM		
BCN	E(P)	14 19 47.5
TUC	EP	14 19 47.8
EUR	E(P)	14 19 51.1
COL	IP	14 20 10.0
	F	20 26.0
ALQ	EP	14 20 10.9
HON	ES	14 22 08.0
	EL	26 42.0
JUN 5		
H-14 47 22.1		
28.6S 178.8W		
h ABOUT 190KM		
TUC	EP	14 59 54.0
FUR	EP	14 59 58.0
JUN 05		
BOZ	IP	15 09 55.0
	IS	09 57.5
JUN 05		
EUR	EP	15 22 23.2
JUN 05		
EUR	EP	16 35 20.4
JUN 05		
EUR	EP	16 56 56.4
	EL	57 30.0
JUN 05		
H-17 00 00.1		
37.2N 116.2W		
h ABOUT 000KM		
BCN	EP	17 00 30.5
	ES	00 52.5
EUR	IP	17 00 39.2
TUC	IP	17 01 39.2
	I	02 04.5
	IL	03 25.2
ALQ	E(P)	17 02 07.5
HHM	E(P)	17 02 50.0
COL	EP	17 06 42.0
JUN 05		
EUR	IP	17 26 22.9
	ES	26 51.1
JUN 05		
ALQ	EP	20 42 58.0
JUN 05		
EUR	EP	20 47 35.8
JUN 05		
FGU	IP	21 16 01.2
	IS	16 33.7
JUN 05		
EUR	EP	21 31 18.6
	EL	31 53.0
JUN 05		
COL	EP	21 43 57.0
EUR	EP	21 47 20.1
JUN 05		
BCN	IP	22 01 59.1
	IS	02 14.8
EUR	EP	22 02 13.2
	ES	02 58.4
JUN 5		
H-22 41 03.2		
02.8S 119.8E		
h ABOUT 075KM		
EUR	EP'	22 59 54.6
JUN 05		
EUR	EP	22 43 57.1
JUN 5		
H-22 54 29.2		
03.0S 119.6E		
h ABOUT 075KM		
EUR	EP'	23 13 10.3
	EPP	14 21.7
ALQ	EP'	23 13 27.0
JUN 05		
FGU	EP	22 57 49.2
	IS	58 13.2
JUN 05		
EUR	EP	23 48 17.1
	EL	48 58.1
JUN 06		
BCN	IP	00 10 01.1
	IS	10 16.1
EUR	EP	00 10 13.5
	ES	10 45.2
JUN 06		
EUR	EP	00 49 57.6
JUN 06		
EUR	EP	01 04 36.7
JUN 06		
BCN	E(P)	02 52 19.6
	EL	53 33.0
EUR	IP	02 52 52.3
	EL	53 55.0
JUN 06		
BCN	E(P)	02 56 04.6
	EL	57 22.0
EUR	EP	02 57 01.1
	EL	58 04.0
JUN 06		
GCA	IP	05 09 46.0
	E	10 20.0
JUN 6		
H-05 18 54.9		
19.9N 120.5E		
h ABOUT 033KM		
COL	IP	05 30 21.1
KIP	EP	05 30 38.0
	ES	40 22.0
	EL	50 04.0
HON	E	05 31 08.0
	E	34 18.0
	IS	40 20.0
	ESCS	41 10.0
	E	44 10.0
	EL	53 52.0
HHM	EP	05 32 27.2
BUT	EP	05 32 32.6
BOZ	E(P)	05 32 37.0
EUR	EP	05 32 42.3
	E	33 29.8
	EP'	35 55.0
	I(PP)	36 57.8
	I(SKP)	37 35.0
	PKKP	49 18.2
ALQ	IP'	05 37 27.0
TUC	E(P')	05 37 04.0
SJP	EP'	05 38 21.1
JUN 06		
BCN	IP	05 26 40.7
	IS	26 58.8
EUR	EP	05 26 53.8
	ES	27 28.8
JUN 6		
H-06 07 18.5		
20.0N 120.6E		
h ABOUT 009KM		
COL	IP	06 18 48.6
HHM	EP	06 20 54.0
JUN 06		
EUR	EP	06 42 54.3
	EL	43 41.6
JUN 06		
TUC	EP	07 20 09.5
JUN 06		
H-08 05 36.3		
36.5N 104.3W		
h ABOUT 033KM		
ALQ	IP	08 06 13.3
	ES	06 40.3
FGU	I(P)	08 07 20.4
	IS	08 34.2
EUR	E(P)	08 08 30.0
	EL	10 30.2
JUN 06		
BCN	EP	08 09 57.5
JUN 6		
H-08 21 18.4		
06.5N 094.6E		
h ABOUT 090KM		
EUR	EP'	08 40 15.5
	E(pP')	40 35.1
	E(sP')	40 48.0
SJP	EP'	08 40 57.0
JUN 06		
SJP	EP	08 22 46.5
JUN 6		
H-11 25 15.6		
30.5S 177.6W		
h ABOUT 080KM		
EUR	IP	11 38 08.4
	EPP	38 28.0
JUN 06		
FGU	E(P)	11 36 21.5
JUN 6		
H-12 04 15.3		
37.9S 078.0E		
h ABOUT 033KM		

Date and Station	Phase (GCT)
	h m s
COL EP'	12 23 40.0
EPP	26 51.0
FUR EP'	12 24 22.9
E	25 32.4
E(PP)	29 27.8
E	29 58.2
E	33 58.2
E	34 42.9
ALQ EP'	12 24 24.5
E	25 58.0
E(PP)	29 52.2
JUN 06	
EUR E(P)	12 19 25.9
JUN 06	
H-14 00 00.1	
37.0N 116.0W	
h ABOUT 000KM	
BCN IP	14 00 27.7
IS	00 51.1
EUR IP	14 00 41.7
TUC E(P)	14 01 32.0
ALQ E(P)	14 02 17.0
JUN 06	
EUR EP	14 12 09.9
BCN EP	14 12 23.0
ES	12 45.1
JUN 06	
ALQ E(P)	14 14 27.8
JUN 06	
EUR EP	15 45 50.5
EL	46 50.5
JUN 06	
COL EP	16 33 15.2
JUN 6	
H-17 42 47.6	
14.3S 167.3E	
h ABOUT 165KM	
COL EP	17 55 09.0
EPP	55 52.0
EUR EP	17 55 24.8
PP	56 04.8
TUC EP	17 55 34.1
JUN 06	
BOZ EP	17 46 29.0
I	46 45.2
JUN 06	
BOZ IP	17 50 04.2
IS	50 14.0
JUN 06	
TUC E(P)	19 10 50.3
E	10 57.9

Date and Station	Phase (GCT)
	h m s
JUN 06	
BOZ E(P)	19 46 57.0
E	47 21.0
HHM E(P)	19 47 42.0
ES	48 20.0
EUR E(P)	19 48 20.3
EL	48 54.0
JUN 06	
COL IP	20 02 45.0
JUN 06	
HHM E(P)	20 32 50.0
ES	33 56.0
EUR E(P)	20 33 22.7
JUN 06	
BCN IP	20 36 15.8
IS	36 25.8
JUN 06	
BOZ IP	20 54 43.0
I	54 46.0
HHM E(P)	20 55 32.0
JUN 06	
EUR EP	22 45 26.8
E	47 16.0
JUN 6	
H-23 43 16.8	
25.4S 180.0W	
h ABOUT 364KM	
TUC EP	23 55 25.0
JUN 7	
H-00 20 51.8	
24.1S 067.0W	
h ABOUT 180KM	
TUC IP	00 31 45.5
ALQ IP	00 31 43.6
EUR IP	00 32 32.9
JUN 07	
HHM E(P)	01 14 10.0
JUN 07	
BCN IP	02 26 16.3
IS	26 28.3
JUN 07	
SJP IP	04 32 35.1
JUN 07	
ALQ E(P)	04 50 50.0
I	50 53.5
JUN 07	
TUC EP	06 26 15.2
JUN 07	
TUC E(P)	06 36 39.0
F	36 43.0
JUN 07	
ALQ E(P)	07 38 02.1

Date and Station	Phase (GCT)
	h m s
JUN 07	
SJP EP	08 03 15.6
E	04 24.6
JUN 07	
HON EP	08 26 24.0
ES	27 01.0
KIP IP	08 26 25.3
ES	27 04.0
JUN 07	
TUC E(P)	08 52 57.5
E	53 05.0
JUN 07	
BCN EP	10 27 08.3
IL	28 09.3
TUC E(P)	10 28 02.1
EUR EP	10 28 42.9
EL	29 28.5
JUN 07	
EUR EP	11 46 33.8
JUN 7	
H-12 04 40.7	
38.0N 122.1W	
h ABOUT 015KM	
UKI EP	12 05 13.1
ES	05 30.1
EUR EP	12 05 56.8
E	06 54.5
BCN E(P)	12 06 30.2
E	06 35.5
E(L)	07 56.7
JUN 7	
H-15 34 49.0	
15.4S 178.8W	
h ABOUT 033KM	
BCN EP	15 46 52.3
EUR EP	15 46 56.5
TUC E(P)	15 46 58.5
COL EP	15 47 13.0
HON E	15 49 13.0
EL	05 51 44.0
JUN 7	
H-15 50 00.8	
18.9N 121.9E	
h ABOUT 066KM	
COL IP	16 01 26.3
EUR E(P)	16 03 46.7
SJP E(P')	16 09 23.0
BHP EP'	16 09 37.0
HON E	16 12 09.0
EL	24 01.0

Date and Station	Phase (GCT)
	h m s
JUN 07	
HHM E(P)	16 02 30.0
JUN 07	
EUR E(P)	16 20 21.7
JUN 07	
SJP E(P)	16 36 30.3
JUN 07	
BHP P	16 42 54.0
JUN 07	
TUC IP	17 22 15.0
JUN 07	
SLC EP	17 52 30.6
ES	54 01.6
I	56 20.6
JUN 07	
HHM EP	19 03 11.2
IS	03 39.0
JUN 07	
CSC EP	19 07 04.0
JUN 07	
WAS EP	19 26 20.0
E	31 12.0
E	33 12.0
JUN 07	
H-19 30 35.6	
08.5N 103.1W	
h ABOUT 033KM	
BHP P	19 35 44.0
TUC EP	19 35 55.5
I	35 57.0
ES	40 10.0
BCN EP	19 36 38.3
CSC EP	19 37 07.0
EL	42 28.0
EUR IP	19 37 10.1
SLC IP	19 37 13.6
BOZ E(P)	19 37 52.0
WAS E(P)	19 38 00.0
HHM E(P)	19 38 23.0
COL EP	19 41 09.1
JUN 07	
SLC E(P)	19 34 06.6
E	35 52.6
JUN 07	
HON EP	19 47 46.0
ES	53 08.0
KIP ES	19 47 50.0
EL	53 10.0
JUN 07	
EUR EP	20 13 42.1

Date and Station	Phase	(GCT) h m s
JUN 7		
H-21 28 48.2		
8.7N 102.8W		
h ABOUT 033KM		
TUC	EP	21 34 06.9
BCN	EP	21 34 50.8
CSC	E(P)	21 35 16.0
EUR	EP	21 35 20.9
BOZ	E(P)	21 36 01.0
JUN 07		
TUC	E(P)	21 37 45.0
EUR	EP	21 38 58.0
JUN 07		
TUC	EP	21 40 04.0
	E	40 18.6
	E(S)	44 07.0
EUR	EP	21 41 29.5
JUN 07		
EUR	EP	21 43 37.0
TUC	EP	21 45 16.5
JUN 07		
EUR	EP	21 46 29.0
JUN 07		
TUC	E(P)	21 50 49.0
EUR	EP	21 52 02.6
JUN 07		
TUC	IP	22 02 35.6
JUN 7		
H-22 31 55.7		
15.2S 172.8W		
h ABOUT 033KM		
KIP	EP	22 39 24.0
BCN	EP	22 43 36.3
TUC	EP	22 43 41.0
	I	43 45.8
EUR	EP	22 43 42.0
ALQ	E(P)	22 44 04.0
HHM	EP	22 44 14.0
BUT	EP	22 44 14.1
	E	49 44.9
BOZ	E(P)	22 44 18.5
	E	49 53.5
JUN 7		
H-22 37 30.3		
15.5S 173.1W		
h ABOUT 033KM		
KIP	EP	22 44 58.0
	ES	50 58.0
HON	E(P)	22 45 05.0
	E	45 49.0
	EPP	46 32.0
	E	47 36.0
	E	48 18.0
	ES	51 01.0
	EL	54 53.0
BCN	EP	22 49 11.7
TUC	IP	22 49 17.2
	E	50 05.0
EUR	EP	22 49 20.0
ALQ	E(P)	22 49 41.0
JUN 07		
TUC	EP	23 14 04.5
JUN 07		
EUR	EP	23 57 21.0
JUN 08		
EUR	IP	00 01 57.0
	IS	02 23.0
JUN 08		
TUC	IP	00 30 38.5
JUN 08		
TUC	E(P)	00 38 34.5
	E	38 38.2
JUN 8		
H-01 01 51.9		
15.3S 172.9W		
h ABOUT 033KM		
KIP	EP	01 09 21.0
BCN	EP	01 13 31.7
TUC	EP	01 13 38.0
EUR	EP	01 13 38.4
BOZ	EP	01 14 13.5
HON	ES	01 15 25.0
	E	18 06.0
	EL	27 08.0
JUN 8		
H-02 00 27.1		
23.1S 171.5E		
h ABOUT 010KM		
BCN	EP	02 13 34.6
EUR	EP	02 13 38.0
JUN 08		
ALQ	E(P)	03 14 38.0
JUN 08		
TUC	EP	04 24 46.5
JUN 08		
EUR	EP	04 27 00.9
JUN 8		
H-05 34 06.9		
05.5S 147.1E		
h ABOUT 171KM		
KIP	E(P)	05 43 58.0
COL	IP	05 46 21.5
EUR	EP	05 47 28.8
HHM	EP	05 47 33.2
SJP	IP'	05 53 21.3
	I	53 41.6
JUN 8		
H-08 51 56.5		
40.6N 124.3W		
h ABOUT 033KM		
EUR	EP	08 53 32.4
	EL	53 52.9
JUN 8		
H-08 57 24.9		
2.3S 077.8W		
h ABOUT 033KM		
ALQ	EP	09 05 42.2
TUC	E(P)	09 05 50.0
	E	05 53.0
EUR	E(P)	09 06 53.8
JUN 8		
H-12 46 04.2		
6.9N 073.2W		
h ABOUT 140KM		
BHP	P	12 47 41.0
SJP	EP	12 49 11.0
	ES	51 26.0
ALQ	EP	12 53 40.0
TUC	IP	12 53 53.5
RCD	E(P)	12 54 10.3
EUR	IP	12 54 49.2
	E	55 25.9
HHM	EP	12 55 14.5
JUN 8		
H-13 34 22.9		
60.4N 153.6W		
h ABOUT 174KM		
COL	IP	13 35 40.8
	IS	36 38.4
HHM	EP	13 39 37.0
EUR	IP	13 40 29.1
	EPP	41 02.6
	IPCP	43 17.8
	ISCP	46 44.5
ALQ	E(P)	13 41 35.2
	EPP	42 11.1
	IPCP	43 42.0
	I(SCP)	47 09.2
TUC	EP	13 41 39.0
JUN 08		
HHM	E(P)	13 38 01.0
	ES	38 27.0
JUN 08		
EUR	EP	14 35 02.0
	EL	35 37.5
JUN 08		
TUC	E(P)	15 29 09.0
JUN 08		
SJP	EP	17 06 14.5
ALQ	EP	17 09 33.0
JUN 08		
WAS	E(P)	18 11 29.0
	I	15 41.0
JUN 08		
BOZ	E(P)	20 13 52.0
	I	14 05.0
JUN 08		
BHP	P	20 19 40.0
SJP	EP	20 22 47.5
TUC	E(P)	20 26 30.8
JUN 08		
TUC	E(P)	21 14 14.0
JUN 08		
TUC	E(P)	21 52 49.5
JUN 08		
HHM	EP	22 56 03.6
	E	56 38.6
JUN 08		
H-22 58 32.0		
14.5S 174.0W		
h ABOUT 033KM		
TUC	E(P)	23 10 19.5
ALQ	E(P)	23 10 40.0
	I	10 44.0
JUN 08		
SLC	E(P)	23 06 20.8
	E	06 30.8
	I	06 58.8
JUN 08		
SLC	EP	23 12 02.8
	I	12 30.8
	I	14 05.8
JUN 08		
SLC	EP	23 19 01.3
	ES	19 31.8

Date and Station	Phase (GCT)
	h m s
JUN 9	
H-00 53 02.5	
27.4N 138.0E	
h ABOUT 282KM	
ALQ EP	01 05 42.8
JUN 9	
H-01 30 32.0	
23.5S 176.0W	
h ABOUT 033KM	
TUC E(P)	01 42 59.8
EUR EP	01 43 01.0
ALQ E(P)	01 43 19.0
E	43 21.0
JUN 09	
ROZ EP	03 24 59.0
JUN 09	
TUC E(P)	03 29 36.5
JUN 9	
H-03 57 54.6	
17.4S 168.0E	
h ABOUT 009KM	
COL EP	04 10 50.0
EUR EP	04 11 01.7
JUN 09	
TUC E(P)	05 15 02.0
JUN 09	
COL EP	05 36 35.0
JUN 09	
TUC E(P)	05 46 40.0
JUN 09	
H-07 09 28.8	
51.0N 178.8E	
h ABOUT 070KM	
COL IP	07 14 19.0
EUR IP	07 17 47.1
BCN EP	07 18 09.8
TUC E(P)	07 18 43.0
E	18 46.2
ALQ E(P)	07 18 51.5
JUN 9	
H-07 42 20.0	
12.2S 166.9E	
h ABOUT 230KM	
COL IP	07 54 25.0
EUR IP	07 54 46.2
JUN 9	
H-09 02 23.0	
6.4N 126.1E	
h ABOUT 100KM	
COL EP	09 14 36.7

Date and Station	Phase (GCT)
	h m s
JUN 09	
EUR EP'	09 19 39.5
E	20 56.5
JUN 09	
WAS E	09 30 50.0
ES	33 47.0
E	35 41.0
JUN 09	
HHM E(P)	14 05 28.0
EUR EP	14 05 38.0
EL	06 46.0
JUN 09	
TUC E(P)	14 58 15.0
E	58 18.6
JUN 9	
H-15 50 31.9	
15.2S 173.0W	
h ABOUT 033KM	
BCN EP	16 02 12.3
E	03 27.9
TUC EP	16 02 18.0
EUR EP	16 02 18.5
E	02 56.5
COL IP	16 02 50.0
I	03 11.0
JUN 09	
BUT EP	16 36 23.0
ES	36 40.0
JUN 09	
EUR EP	17 32 41.4
ES	33 18.4
JUN 09	
BCN EP	19 54 37.3
ES	54 52.8
EUR EP	19 54 50.3
ES	55 13.8
JUN 9	
H-20 37 47.1	
10.6N 041.8W	
h ABOUT 011KM	
CSC EP	20 45 47.0
ALQ IP	20 48 17.9
TUC IP	20 48 39.9
ROZ EP	20 48 51.5
BUT EP	20 48 56.0
HHM EP	20 49 00.6
BCN EP	20 49 02.9
E	49 18.6
EUR IP	20 49 07.6
I	49 36.2

Date and Station	Phase (GCT)
	h m s
COL EP	20 50 34.5
I	50 40.0
JUN 09	
SJP EP	20 43 30.8
JUN 09	
SLC EP	22 29 47.2
I	30 14.5
JUN 09	
SLC EP	23 32 15.0
I	32 41.2
JUN 09	
COL IP	23 48 43.0
JUN 10	
EUR E(P)	02 45 20.3
JUN 10	
SLC E(P)	03 57 51.9
JUN 10	
H-04 16 38.4	
55.3S 146.2E	
h ABOUT 033KM	
GUA IP	04 27 41.0
ES	36 50.0
KIP IP	04 29 36.1
HON E(P)	04 29 40.0
ES	40 32.0
EUR EP'	04 35 26.6
I	35 36.4
E(PP)	37 25.6
EPKKP	45 29.6
E	47 32.0
TUC EP'	04 35 32.1
ALQ EP'	04 35 37.0
I	35 41.0
BUT EP'	04 35 37.5
ESKP	39 16.0
HHM EP'	04 35 39.0
ESKP	39 19.7
SLC IP'	04 35 43.0
COL EP'	04 35 43.0
E(PP)	37 54.0
ESKP	39 09.0
RCD EP'	04 35 47.6
BOZ EP'	04 35 52.0
ESKP	39 31.0
SJP EP'	04 35 55.0
CSC EP'	04 36 01.0
JUN 10	
BHP P	04 37 09.0
JUN 10	
TUC E(P)	04 45 26.0

Date and Station	Phase (GCT)
	h m s
JUN 10	
H-05 02 34.5	
18.6S 169.3E	
h ABOUT 241KM	
COL EP	05 15 03.0
EUR EP	05 15 10.2
TUC EP	05 15 16.0
JUN 10	
H-05 14 15.9	
55.3S 146.3E	
h ABOUT 033KM	
EUR EP'	05 33 09.2
E	33 14.8
EPP	35 27.3
EPKKP	43 02.6
E	43 51.1
TUC EP'	05 33 10.5
ALQ EP'	05 33 18.0
COL EP'	05 33 19.0
I	33 22.0
ESKP	36 48.0
CSC EP'	05 33 36.0
JUN 10	
COL EP	06 28 51.0
TUC EP	06 33 24.0
JUN 10	
H-06 39 04.1	
55.2S 146.1E	
h ABOUT 019KM	
GUA IP	06 50 08.0
KIP EP	06 52 04.0
ES	07 02 43.0
E	03 11.0
EL	15 52.0
TUC EP'	06 57 59.5
EPKKP	07 52.0
BCN EP'	06 58 01.5
E	59 10.1
EPP	07 10 42.0
ESKP	11 46.0
ALQ EP'	06 58 07.5
EPKKP	07 04.0
COL EP'	06 58 10.0
E	07 00 02.3
ESKP	01 35.0
HHM EP'	06 58 11.0
ESKP	07 01 47.0
BUT EP'	06 58 17.0
RCD EP'	06 58 17.5
SJP EP'	06 58 24.7

Date and Station	Phase (GCT)
	h m s
CSC EP'	06 58 26.0
I	58 30.0
WAS EP'	06 58 46.0
HON IS	07 03 07.0
E	04 10.0
E	09 00.0
EL	15 55.0
JUN 10	
H-07 54 32.2	
51.5N 178.5W	
h ABOUT 070KM	
COL EP	07 59 08.4
RCD EP	08 03 12.8
ALQ EP	08 03 42.5
I	03 52.5
SJP IP	08 07 21.8
JUN 10	
H-10 46 59.4	
51.0N 160.1E	
h ABOUT 044KM	
COL IP	10 53 05.8
HHM IP	10 56 10.9
BUT EP	10 56 26.0
SLC IP	10 56 54.8
BCN EP	10 57 05.5
E	57 16.3
RCD EP	10 57 11.2
TUC IP	10 57 37.5
ALQ IP	10 57 42.6
CSC EP	10 59 05.0
JUN 10	
TUC E(P)	10 50 12.0
JUN 10	
H-12 19 55.1	
4.6S 151.9E	
h ABOUT 167KM	
GUA IP	12 24 12.0
ES	27 44.0
COL IP	12 31 56.1
HHM EP	12 33 05.0
JUN 10	
HHM E(P)	16 21 40.0
JUN 10	
H-18 42 06.5	
5.1S 151.7E	
h ABOUT 115KM	
GUA IP	18 46 31.0

Date and Station	Phase (GCT)
	h m s
COL EP	18 54 16.0
E▸P	54 49.0
EUR IP	18 55 18.8
HHM EP	18 55 24.6
JUN 10	
SIT EP	20 35 31.4
IS	35 48.8
JUN 10	
EUR EP	21 09 04.0
JUN 10	
SLC EP	22 58 13.8
IS	59 08.9
JUN 10	
H-23 58 44.1	
04.6S 152.9E	
h ABOUT 072KM	
GUA IP	24 03 13.0
ES	06 56.0
COL IP	24 10 53.8
EUR E(P)	24 11 45.2
E	12 51.6
EPP	15 52.1
EPKKP	29 01.1
SJP IP'	24 18 06.8
I▸P'	18 30.3
JUN 11	
SIT EP	02 48 06.1
IS	48 23.0
JUN 11	
H-03 25 41.5	
37.1N 070.1E	
h ABOUT 044KM	
COL IP	03 37 15.0
HHM EP	03 39 01.3
JUN 11	
EUR E(P)	03 43 09.0
JUN 11	
HHM E(P)	04 06 40.0
ES	06 30.1
JUN 11	
H-04 15 52.3	
59.9N 152.9W	
h ABOUT 078KM	
COL IP	04 17 15.3
IS	18 15.2
SIT EP	04 18 08.1
I	18 31.0
ES	19 50.6
HHM IP	04 21 12.1
EUR IP	04 22 03.0
ESCP	28 31.2

Date and Station	Phase (GCT)
	h m s
ALQ EP	04 23 12.5
IPCP	25 21.2
ISCP	29 01.0
TUC EP	04 23 14.0
JUN 11	
EUR IP	08 57 03.8
ES	57 26.0
JUN 11	
SJP IP	09 36 14.9
JUN 11	
H-13 08 31.5	
63.2N 151.4W	
h ABOUT 036KM	
COL IP	13 09 08.9
I(S)	09 42.0
SIT EP	13 10 54.2
IS	12 46.0
HHM IP	13 13 55.3
IS	19 50.8
SCP	21 59.3
BUT EP	13 14 18.0
E	23 01.0
BOZ EP	13 14 26.2
E	23 57.2
EUR IP	13 14 53.7
IPCP	17 45.4
ESCP	21 28.2
SLC IP	13 14 59.3
RCD IP	13 15 08.0
BCN EP	13 15 24.9
IPCP	17 55.5
ALQ EP	13 15 58.0
EPCP	18 09.2
E	18 12.0
I(SCP)	21 57.0
I(SCS)	26 29.0
TUC EP	13 16 05.2
IPCP	18 09.5
CSC EP	13 17 35.0
SJP EP	13 19 49.1
JUN 11	
SLC E(P)	13 14 20.0
E	14 33.6
JUN 11	
COL E	13 19 00.0
JUN 11	
EUR IP	13 25 22.1
JUN 11	
WAS EP	13 33 56.0
CSC EP	13 35 22.0

Date and Station	Phase (GCT)
	h m s
JUN 11	
UKI EP	15 13 36.5
JUN 11	
H-15 23 42.7	
31.8N 116.2W	
h ABOUT 033KM	
BCN IP	15 24 47.0
IL	25 57.4
TUC EP	15 24 48.3
I	24 50.2
GCA IP	15 25 17.0
EUR IP	15 25 34.3
IS	26 49.7
ALQ EP	15 25 50.0
SLC IP	15 26 02.5
IL	28 48.4
I	29 52.9
FGU IP	15 26 16.0
IL	29 08.5
BUT EP	15 27 05.9
EL	31 16.9
BOZ EP	15 27 10.5
EL	31 19.5
RCD E(P)	15 27 32.0
HHM EP	15 27 36.2
EL	32 23.3
COL IP	15 31 03.8
SJP EP	15 32 08.5
IPCP	33 19.0
CSC E	15 39 33.0
JUN 11	
TUC E(P)	15 49 54.9
BCN IP	15 50 51.9
IS	52 03.4
EUR IP	15 51 39.1
JUN 11	
H-17 13 11.5	
23.1S 179.8W	
h ABOUT 550KM	
TUC IP	17 24 55.3
EUR EP	17 24 55.6
JUN 11	
H-17 13 36.2	
23.2S 179.7W	
h ABOUT 550KM	
TUC I	17 25 20.0
EUR IP	17 25 20.5
E▸P	27 24.4
COL E(P)	17 25 42.0

Date and Station	Phase (GCT)
	h m s
JUN 11	
H-18 07 24.1	
30.9N 087.3E	
h ABOUT 033KM	
COL E(P)	18 19 08.0
JUN 11	
BCN IP	18 17 10.4
IS	17 11.9
FUR EP	18 18 06.1
E(S)	18 49.6
JUN 11	
H-18 34 11.1	
38.4N 069.5E	
h ABOUT 032KM	
COL EP	18 45 38.0
JUN 11	
H-18 34 30.6	
4.9N 077.5W	
h ABOUT 033KM	
BHP P	18 35 37.0
SJP EP	18 38 32.1
ALQ EP	18 42 07.0
TUC E(P)	18 42 08.2
I	42 17.1
I	42 25.2
FUR EP	18 43 15.6
BOZ E(P)	18 43 25.0
HHM E(P)	18 43 45.0
COL I(P)	18 46 31.5
JUN 11	
ALQ EP	18 51 18.6
JUN 11	
ALQ E(P)	21 18 37.0
JUN 11	
SLC IP	23 42 16.2
IS	42 43.7
JUN 11	
BCN E(P)	23 58 56.5
EL	59 52.7
FUR IP	23 59 22.7
JUN 12	
ALQ IP	00 22 37.1
JUN 12	
ALQ IP	01 37 35.0
JUN 12	
H-02 50 55.3	
30.8N 141.9E	
h ABOUT 013KM	
COL EP	03 00 22.0
HHM E(P)	03 02 36.0
EUR E(P)	03 03 04.3
JUN 12	
H-03 28 31.1	
8.8N 126.3E	
h ABOUT 144KM	
COL EP	03 40 27.0
JUN 12	
BCN I(P)	04 00 21.4
EL	01 46.0
TUC E(P)	04 00 37.0
E	00 59.8
EUR IP	04 01 20.2
EL	03 22.9
JUN 12	
H-04 08 11.5	
15.9S 174.1W	
h ABOUT 149KM	
EUR IP	04 19 50.7
E(pP)	20 27.6
I(sP)	20 47.9
TUC EP	04 19 51.5
EpP	20 31.0
ALQ EP	04 20 15.0
EpP	20 54.0
COL EP	04 20 20.0
IpP	20 59.0
JUN 12	
SJP IP	04 43 14.7
IS	43 47.2
JUN 12	
HHM EP	05 26 44.6
JUN 12	
BCN EP	07 29 04.1
ES	30 13.8
EUR IP	07 29 51.1
EL	31 56.2
HHM EP	07 30 10.1
JUN 12	
COL EP	07 36 15.0
EUR IP	07 39 36.7
JUN 12	
HHM EP	08 49 57.6
JUN 12	
BCN IP	08 56 53.8
IS	58 02.7
TUC E(P)	08 56 56.0
EUR IP	08 57 40.6
ALQ E(P)	08 58 04.0
JUN 12	
BHP P	10 18 34.0
JUN 12	
COL EP	10 29 27.0
ALQ E(P)	10 30 45.0
TUC EP	10 30 47.2
JUN 12	
ALQ EP	11 48 04.8
JUN 12	
H-13 02 38.4	
16.9S 173.5W	
h ABOUT 033KM	
EUR EP	13 14 33.0
ALQ E(P)	13 14 58.5
COL IP	13 15 07.2
JUN 12	
H-15 11 59.6	
55.9S 027.5W	
h ABOUT 033KM	
SJP E(P)	15 24 25.5
HHM IP'	15 30 25.5
EUR EP'	15 30 48.0
COL IP'	15 31 45.0
I	31 52.0
JUN 12	
HHM EP	15 29 57.5
JUN 12	
GCA E(P)	15 39 01.0
JUN 12	
EUR EP	15 40 53.5
JUN 12	
FGU IP	16 40 51.2
IS	41 09.9
JUN 12	
HHM E(P)	17 11 55.0
JUN 12	
ALQ IP	17 27 54.0
JUN 12	
HHM E(P)	17 39 58.0
JUN 12	
BOZ E(P)	17 50 39.0
JUN 12	
SLC E(P)	18 05 14.1
I	09 00.1
JUN 12	
FGU EP	18 07 05.9
JUN 12	
HHM FP	19 28 40.5
JUN 12	
SLC IP	19 49 35.8
JUN 12	
FGU E(P)	20 11 38.3
E	12 03.0
JUN 12	
FGU IP	20 17 52.6
IS	18 15.1
JUN 12	
FGU IP	20 21 46.8
I	21 54.5
JUN 12	
FGU I(P)	20 26 35.3
JUN 12	
H-22 15 15.3	
31.5N 116.3W	
h ABOUT 033KM	
BCN IP	22 16 23.3
I	16 34.7
I	24 02.0
TUC EP	22 16 24.6
EUR IP	22 17 10.5
ALQ EP	22 17 24.6
I	17 32.0
SLC E(P)	22 17 42.0
I	21 40.0
BOZ E(P)	22 18 52.4
HHM EP	22 19 12.6
I	19 55.6
JUN 12	
HHM EP	22 31 03.5
I	31 30.5
JUN 12	
FGU IP	22 56 59.7
IS	57 25.2
TUC EP	22 57 09.6
JUN 12	
ALQ E(P)	23 01 19.0
JUN 12	
SLC E(P)	23 08 48.0
E	10 49.8
I	11 19.0
JUN 12	
FGU IP	23 41 01.7
I	41 32.7
GCA E(P)	23 41 20.3
E	41 28.7
JUN 12	
FGU E(P)	23 54 08.0
JUN 12	
TUC E(P)	23 57 33.2
E	59 03.2

Date and Station	Phase (GCT)
	h m s
JUN 13	
H-05 14 26.7	
15.2S 173.2W	
h ABOUT 033KM	
EUR EP	05 26 13.8
TUC EP	05 26 14.0
ALQ IP	05 26 39.0
COL IP	05 26 45.0
JUN 13	
H-05 30 41.4	
22.8S 067.3W	
h ABOUT 033KM	
ALQ IP	05 41 42.8
EUR EP	05 42 31.7
JUN 13	
FGU E(P)	07 38 18.3
E	38 43.5
JUN 13	
ALQ E(P)	08 06 30.0
JUN 13	
H-08 37 37.4	
38.5N 014.9E	
h ABOUT 023KM	
COL EP	08 49 25.0
BOZ E(P)	08 50 04.0
ALQ EP	08 50 32.5
EUR EP	08 50 38.4
JUN 13	
H-10 34 49.7	
6.1S 130.2E	
h ABOUT 125KM	
COL EP	10 47 45.0
EUR EP'	10 53 12.2
E	54 25.7
E	57 39.7
ALQ IP'	10 53 29.2
E	54 14.5
F	56 50.0
JUN 13	
HON EP	10 47 05.0
KIP IP	10 47 05.2
JUN 13	
SJP EP'	10 55 39.3
JUN 13	
EUR EP	11 04 04.4
JUN 13	
GCA E(P)	12 09 43.5
JUN 13	
FGU E(P)	14 09 35.6

Date and Station	Phase (GCT)
	h m s
JUN 13	
EUR IP	15 22 53.6
IS	23 21.9
JUN 13	
H-16 59 04.8	
33.5S 072.2W	
h ABOUT 038KM	
TUC E(P)	17 10 43.0
ALQ EP	17 10 44.5
I	10 57.5
EUR EP	17 11 28.6
E	15 02.6
BUT EP	17 11 48.0
JUN 13	
H-17 26 41.0	
4.7S 153.2E	
h ABOUT 051KM	
KIP IP	17 36 05.9
COL IP	17 38 52.8
E	41 38.0
EUR IP	17 39 53.5
HON E(S)	17 43 32.0
EL	51 46.0
JUN 13	
EUR EP	17 48 00.2
ALQ IP	17 48 16.2
I	49 03.0
JUN 13	
H-18 48 35.4	
31.1N 141.9E	
h ABOUT 065KM	
EUR EP	19 00 36.0
JUN 13	
FGU IP	21 10 10.9
IS	10 40.4
JUN 13	
TUC EP	21 55 24.0
JUN 13	
BCN IP	22 21 47.3
JUN 13	
H-22 23 24.3	
13.0S 066.3E	
h ABOUT 031KM	
BOZ EP'	22 43 00.0
BUT EP'	22 43 08.0
JUN 13	
TUC EP	22 41 26.0
EUR E(P)	22 42 40.0
E	43 25.0
COL EP	22 46 38.0

Date and Station	Phase (GCT)
	h m s
JUN 13	
EUR E(P)	22 47 08.0
BCN EP	22 47 11.8
EL	47 46.3
JUN 14	
FGU IP	00 01 17.6
IS	01 47.3
JUN 14	
FGU E(P)	00 15 41.6
JUN 14	
SJP IP	04 50 32.0
EL	51 25.0
JUN 14	
FGU IP	05 50 46.2
JUN 14	
H-07 18 50.8	
15.0N 093.1W	
h ABOUT 033KM	
ALQ EP	07 23 56.0
E	25 21.3
TUC EP	07 24 00.5
JUN 14	
H-07 23 13.7	
15.5N 093.5W	
h ABOUT 150KM	
ALQ IP	07 28 04.0
TUC EP	07 28 06.5
EUR EP	07 29 19.2
COL IP	07 33 14.2
JUN 14	
H-08 06 37.2	
12.3N 143.8E	
h ABOUT 033KM	
GUA IP	08 07 04.0
COL EP	08 17 45.0
EUR IP	08 19 36.0
E	20 25.4
JUN 14	
H-08 19 16.6	
14.6N 093.4W	
h ABOUT 033KM	
ALQ E(P)	08 24 24.5
I	24 52.5
TUC EP	08 24 27.7
EUR EP	08 25 40.2
COL EP	08 29 36.0
JUN 14	
FGU I(P)	09 20 38.7
JUN 14	
CSC E(P)	10 28 33.0

Date and Station	Phase (GCT)
	h m s
JUN 14	
GUA EP	13 19 16.0
JUN 14	
EUR EP	13 31 43.1
JUN 14	
H-14 10 00.1	
37.0N 116.0W	
h ABOUT 000KM	
BCN IP	14 10 27.4
IS	10 50.3
EUR IP	14 10 42.1
TUC EP	14 11 36.5
E	11 45.1
ALQ E(P)	14 12 00.0
JUN 14	
SLC E(P)	14 26 28.4
E	26 41.4
ES	27 57.4
JUN 14	
COL IP	14 34 45.6
E	34 57.0
JUN 14	
H-16 30 46.7	
17.9S 178.5W	
h ABOUT 596KM	
EUR IP	16 42 04.6
TUC IP	16 42 06.9
E	47 06.2
COL IP	16 42 23.7
E(PP)	44 33.0
JUN 14	
FGU EP	16 33 22.7
IS	33 57.3
JUN 14	
EUR IP	19 47 10.8
E	47 46.0
JUN 14	
HON EP	21 18 42.0
ES	19 17.0
KIP E(P)	21 18 44.0
ES	19 18.0
JUN 14	
COL EP	22 10 06.4
EUR IP	22 13 32.1
I	13 37.6
JUN 14	
TUC EP	22 43 09.2
E	45 03.0
EUR IP	22 43 13.1
E	46 13.4

Date and Station	Phase (GCT)
	h m s
JUN 14	
SLC EP	23 08 30.4
I	09 12.4
I	11 52.0
JUN 14	
H-23 37 45.1	
50.8N 129.7W	
h ABOUT 011KM	
EUR EP	23 41 18.0
TUC EP	23 42 52.0
ALQ IP	23 42 52.5
JUN 14	
BUT E(P)	23 44 29.0
JUN 14	
SLC EP	23 48 04.0
IS	48 29.4
FUR EP	23 48 51.6
EL	49 39.0
JUN 15	
H-02 20 11.5	
53.2N 167.0W	
h ABOUT 033KM	
COL EP	02 23 48.0
HHM EP	02 26 46.8
FUR IP	02 27 20.1
TUC IP	02 28 25.0
JUN 15	
H-05 01 55.8	
15.2S 177.7W	
h ABOUT 392KM	
EUR IP	05 13 19.7
TUC IP	05 13 22.4
COL IP	05 13 37.5
JUN 15	
CSC EP	06 32 35.0
JUN 15	
EUR EP	08 30 52.0
JUN 15	
FGU I(P)	08 50 47.4
JUN 15	
EUR EP	10 26 01.9
JUN 15	
H-12 52 05.4	
51.1N 179.6W	
h ABOUT 033KM	
COL IP	12 56 53.0
EUR EP	13 00 19.4
E	00 31.4

Date and Station	Phase (GCT)
	h m s
JUN 15	
H-13 15 50.6	
45.0N 110.6W	
h ABOUT 033KM	
BOZ EP	13 16 06.2
ES	16 22.2
BUT EP	13 16 19.2
IS	16 46.2
HHM EP	13 16 52.0
I	17 06.8
EL	18 02.8
EUR EP	13 17 29.7
JUN 15	
H-15 30 37.7	
36.3S 098.9W	
h ABOUT 033KM	
BHP P	15 39 20.0
SJP EP	15 40 59.0
TUC EP	15 41 41.8
CSC EP	15 42 00.0
BCN EP	15 42 09.7
E(PP)	45 07.3
EUR EP	15 42 28.5
E	44 46.0
I	45 53.5
BOZ EP	15 43 00.5
BUT EP	15 43 02.1
HHM EP	15 43 13.8
COL I(P)	15 45 03.5
KIP E	15 53 28.0
E	16 04 23.0
EL	07 20.0
HON E	15 53 34.0
E	57 56.0
E	16 04 18.0
EL	07 19.0
JUN 15	
EUR EP	16 01 44.5
COL IP	16 02 04.8
JUN 15	
FGU EP	18 30 54.4
IS	31 21.3
JUN 15	
H-21 47 10.2	
55.5S 028.0W	
h ABOUT 033KM	
HHM EP'	22 06 08.3
COL EP'	22 06 55.7
JUN 15	
BHP P	22 52 55.0

Date and Station	Phase (GCT)
	h m s
JUN 15	
FGU EP	22 58 05.0
E(S)	58 32.2
JUN 15	
SLC E(P)	23 04 25.6
JUN 15	
SLC EP	23 08 16.0
I	09 04.0
I	12 15.0
JUN 15	
FGU EP	23 17 13.2
ES	17 45.4
SLC EP	23 17 40.0
IS	18 05.6
JUN 15	
EUR EP	23 27 43.3
JUN 15	
SLC EP	23 42 31.0
IS	42 58.0
JUN 16	
FGU EP	00 54 44.7
ES	55 09.2
GCA E(P)	00 55 38.9
JUN 16	
FGU IP	01 57 58.9
IS	58 31.0
GCA EP	01 58 25.2
JUN 16	
H-02 53 25.2	
44.4N 135.5E	
h ABOUT 452KM	
COL IP	03 01 03.8
EUR EP	03 04 18.3
JUN 16	
H-03 35 52.6	
22.7S 176.3W	
h ABOUT 070KM	
EUR EP	03 48 16.2
COL EP	03 48 45.5
JUN 16	
EUR EP	03 41 39.5
I	41 49.5
JUN 16	
H-04 43 40.9	
42.4N 142.2E	
h ABOUT 020KM	
COL EP	04 51 51.0
E	52 09.0
EUR EP	04 55 05.8
JUN 16	
BUT EP	04 57 52.1
E	58 11.1

Date and Station	Phase (GCT)
	h m s
JUN 16	
H-06 27 15.1	
16.6N 100.3W	
h ABOUT 033KM	
TUC EP	06 31 28.5
EL	36 44.0
ALQ IP	06 31 37.3
E(S)	35 24.4
EL	37 28.0
BCN EP	06 32 23.1
EL	39 49.6
CSC EP	06 32 35.0
EUR EP	06 32 53.6
EL	47 40.0
BUT EP	06 33 32.2
COL EP	06 37 05.0
JUN 16	
H-09 19 53.2	
50.8N 129.5W	
h ABOUT 020KM	
BUT EP	09 22 48.2
E	26 02.2
BOZ E(P)	09 23 04.0
E	27 03.0
EUR EP	09 23 23.5
ES	26 03.5
COL EP	09 23 53.0
BCN EP	09 24 07.0
RCD EP	09 24 16.5
TUC EP	09 24 57.9
ALQ IP	09 24 59.0
KIP ET	10 04 51.0
JUN 16	
BHP P	10 22 13.0
JUN 16	
EUR EP	12 31 32.0
E	32 26.5
JUN 16	
H-13 48 59.7	
4.5S 153.0E	
h ABOUT 072KM	
COL EP	14 01 10.0
EUR E(P)	14 02 09.9
E>P	02 29.3
JUN 16	
COL IP	15 16 16.4
EUR EP	15 19 34.3

Date and Station	Phase	(GCT) h m s
JUN 16		
H-17 27 17.3		
52.1N 179.0E		
h ABOUT 140KM		
COL	EP	17 31 53.0
EUR	IP	17 35 25.9
	E>P	35 54.4
BCN	EP	17 35 47.7
TUC	EP	17 36 25.0
JUN 16		
TUC	IP	17 30 09.0
ALQ	E(P)	17 30 31.0
	E	30 40.0
	ES	31 03.0
BCN	EP	17 31 24.8
	E(S)	32 11.2
EUR	E(P)	17 31 28.5
JUN 16		
EUR	E(P)	17 32 29.7
JUN 16		
H-18 09 13.1		
15.2N 061.4W		
h ABOUT 156KM		
SJP	IP	18 10 34.7
	IS	11 40.0
EUR	E(P)	18 18 18.2
COL	EP	18 20 38.0
JUN 16		
EUR	E(P)	18 17 43.7
JUN 16		
FGU	I(P)	18 40 27.3
GCA	I(P)	18 40 47.9
JUN 16		
FGU	IP	19 03 31.2
	IS	03 49.7
JUN 16		
GCA	E(P)	19 21 32.3
JUN 16		
EUR	E(P)	20 10 00.4
COL	EP	20 11 28.0
	E	11 40.0
JUN 16		
TUC	E(P)	21 42 18.0
	E	42 41.0
JUN 16		
H-22 37 25.2		
20.7S 066.4W		
h ABOUT 229KM		
TUC	IP	22 47 59.5
BCN	EP	22 48 30.1
EUR	EP	22 48 48.1
JUN 17		
FGU	EP	00 04 29.7
	I	04 31.0
JUN 17		
H-02 04 55.6		
17.8S 178.4W		
h ABOUT 510KM		
TUC	E(P)	02 16 22.0
	E>P	18 18.5
JUN 17		
H-02 06 09.8		
15.9S 177.8W		
h ABOUT 033KM		
EUR	EP	02 18 15.8
COL	EP	02 18 36.8
JUN 17		
EUR	E(P)	02 13 21.0
JUN 17		
EUR	EP	02 15 13.3
JUN 17		
TUC	E(P)	03 00 08.1
JUN 17		
EUR	EP	03 14 16.3
JUN 17		
BCN	IP	03 49 12.4
	IS	49 37.9
EUR	EP	03 49 43.8
	ES	50 26.5
JUN 17		
EUR	EP	03 59 30.8
	E	04 01 30.3
JUN 17		
HHM	EP	06 33 54.9
JUN 17		
BCN	E	07 03 42.9
JUN 17		
FGU	EP	07 21 11.3
JUN 17		
EUR	EP	09 06 13.2
JUN 17		
H-10 23 00.1		
45.0N 150.5E		
h ABOUT 033KM		
COL	EP	10 30 22.0
	I	30 32.0
HHM	E(P)	10 33 10.0
	E	33 26.0
BUT	E(P)	10 33 29.0
EUR	EP	10 33 42.6
	I	33 54.8
BCN	E(P)	10 34 02.6
	I	34 14.6
RCD	E(P)	10 34 10.0
	EPP	36 49.2
JUN 17		
H-10 25 32.2		
45.5N 150.4E		
h ABOUT 033KM		
COL	EP	10 32 51.0
EUR	EP	10 36 12.3
	E	36 23.1
JUN 17		
EUR	E(P)	13 45 25.0
	EL	46 06.5
JUN 17		
BCN	IP	13 46 48.6
	IS	47 05.0
JUN 17		
H-14 41 26.1		
52.2N 173.5W		
h ABOUT 070KM		
COL	EP	14 45 36.0
	I	45 39.0
HHM	EP	14 48 32.7
EUR	EP	14 49 04.1
	IPCP	51 03.9
	E	51 56.2
TUC	E(P)	14 50 06.0
JUN 17		
EUR	EP	14 58 16.7
	I	15 00 15.9
JUN 17		
EUR	EP	15 03 56.1
JUN 17		
EUR	EP	15 15 59.9
	E	16 19.7
JUN 17		
KIP	ET	15 22 07.0
JUN 17		
KIP	FT	15 31 18.0
JUN 17		
SIT	IP	17 33 17.0
JUN 17		
H-17 37 21.6		
20.4S 177.4W		
h ABOUT 491KM		
EUR	EP	17 48 50.5
TUC	EP	17 48 56.2
COL	IP	17 49 19.5
	E>P	51 15.0
JUN 17		
HHM	E(P)	17 57 20.0
	E	57 55.0
JUN 17		
GCA	IP	18 15 43.2
JUN 17		
H-18 32 13.7		
60.5N 140.8W		
h ABOUT 028KM		
SIT	IP	18 33 17.0
	EL	34 27.0
COL	IP	18 33 36.0
	I(S)	34 40.0
HHM	EP	18 36 40.8
	ES	40 25.8
	EL	42 27.8
BUT	EP	18 37 08.8
	EL	43 45.8
BOZ	EP	18 37 17.0
	ES	41 33.0
	IL	43 07.0
	I	18 44 21.0
UKI	E(P)	18 37 36.0
EUR	EP	18 37 45.9
SLC	E(P)	18 37 47.0
	E	37 51.0
BCN	EP	18 38 18.4
	E	39 48.4
	EPCP	41 24.8
	EL	49 43.4
ALQ	IP	18 38 55.8
TUC	IP	18 38 59.0
KIP	EP	18 39 55.0
HON	EP	18 39 55.0
	ES	46 14.0
CSC	E(P)	18 40 39.0
	ES	47 28.0
	I	56 26.0
WAS	E	18 49 59.0
	E	55 15.0
JUN 17		
H-20 08 37.4		
20.4S 174.2W		
h ABOUT 033KM		
BCN	EP	20 20 41.7
TUC	EP	20 20 46.5
EUR	EP	20 20 48.7
SLC	EP	20 21 07.0
ALQ	IP	20 21 09.5
HHM	EP	20 21 19.8

Date and Station	Phase (GCT)
	h m s
COL IP	20 21 22.6
I	21 35.0
I	21 47.0
JUN 17	
SJP EP	20 08 57.0
IS	09 17.0
JUN 17	
SJP EP	20 15 30.1
JUN 17	
COL EP	22 17 10.0
JUN 17	
COL EP	22 37 43.0
JUN 17	
TUC EP	22 51 38.0
JUN 17	
H-23 02 06.1	
4.1S 102.2E	
h ABOUT 069KM	
COL EP	23 15 54.0
EP'	19 53.0
IPP	20 07.0
EUR IP'	23 20 58.7
I	21 11.6
FPP	23 14.8
ISKP	24 28.6
E	24 57.9
SKKP	33 43.6
E	34 22.3
HHM IP'	23 21 02.0
IPP'	20 22.0
SLC EP'	23 21 03.5
I	21 15.0
IPP	23 40.5
ISKP	24 36.0
BCN IP'	23 21 20.0
E(PP')	21 44.9
EPP	23 38.0
ESKP	24 40.9
E	25 09.2
E	25 16.3
BUT EP'	23 21 06.7
IPP	23 08.6
BOZ EP'	23 21 10.2
EPP'	21 32.0
TUC EP'	23 21 13.5
I	21 17.0
IPP	24 55.0
I	25 25.0
ALQ P'	23 21 18.5
E	27 23.9
WAS IP'	23 21 37.1
IPP'	22 03.1
CSC EP'	23 21 47.0
GCA IP'	23 21 55.2
E	27 18.2

Date and Station	Phase (GCT)
	h m s
SJP EP'	23 22 02.5
JUN 17	
FGU IP	23 15 38.2
IS	16 08.7
JUN 17	
SLC EP	23 40 54.0
I	42 27.5
ES	44 08.0
JUN 18	
EUR EP	00 01 22.9
JUN 18	
FGU EP	00 07 50.4
I	07 57.4
GCA EP	00 08 09.9
JUN 18	
COL E(P)	02 26 12.0
EUR EP	02 28 43.5
I	29 28.3
JUN 18	
GCA E(P)	03 02 08.2
E	02 14.2
JUN 18	
H-04 02 32.4	
28.8N 130.0E	
h ABOUT 053KM	
COL IP	04 12 41.9
HHM EP	04 15 00.8
BUT IP	04 15 11.7
BOZ EP	04 15 18.0
EUR IP	04 15 21.5
EPP	19 08.5
BCN FP	04 15 35.8
RCD EP	04 15 41.0
TUC EP	04 15 57.0
I	16 06.9
ALQ EP	04 16 02.0
JUN 18	
TUC E(P)	04 05 12.0
ALQ EP	04 05 17.2
EUR EP	04 06 20.0
JUN 18	
KIP ET	05 12 35.0
JUN 18	
GCA E(P)	05 16 59.1
FGU I(P)	05 17 02.8
JUN 18	
ALQ EP	05 34 18.1
EUR FP	05 35 05.4

Date and Station	Phase (GCT)
	h m s
JUN 18	
FGU IP	05 36 10.0
JUN 18	
TUC EP	05 48 28.0
ALQ E(P)	05 49 26.0
BCN E(P)	05 49 38.0
EL	51 41.0
EUR E(P)	05 50 22.8
EL	53 46.9
JUN 18	
GCA E(P)	06 34 13.4
I	34 20.4
IS	34 59.4
FGU E(P)	06 35 10.3
JUN 18	
SJP EP	07 02 04.0
EL	03 11.0
JUN 18	
H-08 37 57.3	
36.5N 070.6E	
h ABOUT 206KM	
COL EP	08 49 15.0
JUN 18	
EUR EP	09 44 06.7
TUC E(P)	09 44 16.0
JUN 18	
GCA IP	10 51 43.2
JUN 18	
EUR EP	11 02 16.4
COL E(P)	11 02 42.0
JUN 18	
H-13 09 34.6	
18.3N 071.0W	
h ABOUT 033KM	
SJP EP	13 10 45.7
EL	11 57.0
ALQ E(P)	13 16 32.0
JUN 18	
EUR EP	13 36 36.6
JUN 18	
H-15 39 55.4	
05.3S 078.5W	
h ABOUT 033KM	
SJP I(P)	15 45 30.7
I	45 52.3
EUR EP	15 49 34.0
COL E(P)	15 52 39.0
JUN 18	
TUC E(P)	15 48 16.0
EUR E(P)	15 48 43.5

Date and Station	Phase (GCT)
	h m s
JUN 18	
HHM EP	16 04 38.6
JUN 18	
H-16 54 01.1	
19.6N 065.7W	
h ABOUT 004KM	
SJP IP	16 54 25.0
EUR EP	17 02 39.1
HHM EP	17 02 45.6
COL EP	17 05 11.0
JUN 18	
SJP IP	18 54 17.0
EUR EP	19 02 26.2
JUN 18	
FGU EP	21 34 03.9
ES	34 31.4
JUN 18	
FGU EP	21 35 54.9
IS	36 13.2
JUN 18	
CSC EP	22 28 29.9
JUN 18	
EUR EP	22 34 26.3
EL	35 15.3
JUN 18	
BCN EP	22 48 44.2
ES	49 15.2
JUN 18	
FGU IP	22 59 09.4
IS	59 29.9
JUN 18	
EUR EP	23 14 00.0
EL	14 50.0
SLC E(P)	23 14 49.4
E	14 53.4
JUN 18	
SJP IP	23 16 58.5
IS	17 13.5
JUN 18	
H-23 14 23.9	
12.6N 124.2E	
h ABOUT 016KM	
COL EP	23 26 22.0
JUN 18	
SLC EP	23 50 58.4
IS	51 25.4
JUN 19	
SLC EP	00 58 50.3
IS	59 16.3
JUN 19	
TUC E(P)	02 04 21.0

Date and Station	Phase	(GCT)
		h m s
JUN 19		
H-02 15 54.1		
23.6S 174.9W		
h ABOUT 055KM		
TUC	E(P)	02 28 14.0
EUR	EP	02 28 16.2
ALQ	EP	02 28 36.0
COL	E(P)	02 28 54.0
HON	ES	02 31 26.0
	EL	35 15.0
KIP	ES	02 31 26.0
	EL	35 11.0
JUN 19		
ALQ	EP	02 25 52.1
JUN 19		
EUR	EP	04 15 57.1
	IS	16 38.2
JUN 19		
BCN	EP	04 17 06.5
	ES	17 47.5
JUN 19		
H-05 43 50.1		
63.4N 151.2W		
h ABOUT 061KM		
COL	IP	05 44 24.4
	IS	44 57.7
HHM	EP	05 49 11.5
FUR	EP	05 50 09.7
JUN 19		
FGU	IP	05 57 30.3
	I	58 08.2
JUN 19		
FGU	IP	06 24 44.5
	IS	25 07.7
JUN 19		
FUR	EP	06 58 54.3
	E	59 16.3
JUN 19		
EUR	EP	08 01 15.9
JUN 19		
BUT	E(P)	08 11 11.0
JUN 19		
H-08 38 47.5		
37.9N 112.6W		
h ABOUT 033KM		
GCA	IP	08 39 08.1
	EL	39 49.1
BCN	IP	08 39 30.9
	IS	40 09.9
SLC	E(P)	08 39 31.0
	E	39 36.0
	I	39 41.5
EUR	IP	08 39 34.6
	IS	40 17.4
FGU	IP	08 39 46.6
	E	39 57.4
	IS	40 39.9
ALQ	IP	08 40 11.6
TUC	EP	08 40 14.0
JUN 19		
EUR	EP	08 55 39.6
	IS	56 20.6
JUN 19		
H-09 09 04.0		
04.7N 126.5E		
h ABOUT 083KM		
GUA	EP	09 13 33.0
	S	17 20.0
HON	E(P)	09 20 43.0
	IS	30 14.0
KIP	I(P)	09 20 44.3
	IS	30 14.0
COL	IP	09 21 26.5
	ES	31 44.0
HHM	E(P)	09 23 02.0
	E	24 12.5
BUT	E(P)	09 23 18.4
	EP'	26 43.4
EUR	EP	09 23 18.6
	E(P')	27 17.6
	EPP	27 57.6
	ES	35 19.6
	E	37 50.4
BOZ	E(P)	09 23 28.0
	EP'	27 32.0
	EPKKP	38 31.0
BCN	E(P)	09 23 31.1
	EP'	27 25.6
	EPKKP	38 32.9
ALQ	E(P)	09 24 03.0
TUC	EP'	09 27 36.0
	EPKKP	38 22.0
FGU	E(P')	09 27 47.0
CSC	EP'	09 28 20.0
	EKSP	31 38.5
BHP	EP'	09 28 47.0
SJP	EP'	09 28 49.0
JUN 19		
ALQ	I(P)	09 39 33.5
JUN 19		
GUA	IP	10 30 39.0
JUN 19		
H-10 47 24.6		
25.0N 092.1E		
h ABOUT 051KM		
COL	IP	10 59 27.0
SIT	EP	11 00 17.7
HHM	E(P)	11 01 12.0
EUR	EP	11 02 01.6
	EP'	05 54.8
	EpP'	06 12.6
	EPKKP	17 08.1
BOZ	E(P')	11 05 28.0
	E(PP)	06 06.0
BCN	EP'	11 06 02.8
	EPP	06 57.7
ALQ	IP'	11 06 07.9
	EPKKP	16 35.5
TUC	IP'	11 06 10.2
	IpP'	06 26.0
JUN 19		
ALQ	E(P)	10 56 43.0
JUN 19		
H-11 30 48.2		
44.7N 129.6W		
h ABOUT 033KM		
HHM	E(P)	11 33 29.0
EUR	EP	11 33 33.2
BCN	E(P)	11 34 17.6
ALQ	E(P)	11 35 23.0
JUN 19		
FGU	E(P)	11 54 33.8
JUN 19		
H-11 58 55.1		
09.3S 158.8E		
h ABOUT 033KM		
COL	IP	12 11 21.5
EUR	IP	12 12 03.5
BCN	EP	12 12 05.2
	EPP	15 42.7
TUC	EP	12 12 17.0
ALQ	E(P)	12 12 35.0
JUN 19		
GUA	EP	12 34 32.0
JUN 19		
SJP	EP	12 43 10.7
	ES	43 25.7
JUN 19		
TUC	E(P)	14 01 35.0
JUN 19		
HHM	E(P)	14 17 04.5
	ES	17 52.5
JUN 19		
COL	EP	15 17 40.0
JUN 19		
H-17 45 58.7		
63.2N 146.2W		
h ABOUT 011KM		
COL	IP	17 46 30.7
	I(S)	47 00.0
TUC	E(P)	17 52 42.5
EUR	EP	17 52 07.0
ALQ	EP	17 53 13.0
JUN 19		
H-18 22 09.7		
03.6S 153.4E		
h ABOUT 278KM		
GUA	IP	18 26 14.0
	ES	29 36.0
KIP	IP	18 31 05.6
HON	EP	18 31 06.0
	ES	38 18.0
COL	IP	18 33 50.9
	E	38 28.0
EUR	EP	18 34 51.5
	I	35 33.5
	IpP	36 02.5
	EPP	38 33.5
	EPKKP	52 01.5
BCN	EP	18 34 56.5
	EpP	36 02.5
	E	36 08.5
TUC	EP	18 35 11.0
ALQ	IP	18 35 27.0
	IPP	39 36.2
	IPKKP	52 07.1
JUN 19		
TUC	E(P)	19 52 42.0
JUN 19		
H-21 47 54.7		
28.6S 069.6W		
h ABOUT 265KM		
ALQ	IP	21 58 52.3
JUN 19		
H-23 01 55.9		
31.7N 140.0E		
h ABOUT 062KM		
GUA	IP	23 06 06.0
	ES	09 25.0
COL	EP	23 11 16.2

Date and Station	Phase (GCT)
	h m s
HON E(P)	23 11 22.0
IS	19 31.0
HHM EP	23 13 39.4
BOZ E(P)	23 13 58.0
SLC E(P)	23 14 06.7
E	14 12.7
ES	15 43.3
BCN EP	23 14 16.3
TUC EP	23 14 40.0
ALQ EP	23 14 46.6
KIP ES	23 19 34.0
EL	27 26.0
JUN 19	
TUC E(P)	23 29 20.0
JUN 20	
H-00 56 02.2	
36.4N 144.6E	
h ABOUT 015KM	
COL EP	01 04 45.0
BUT EP	01 07 30.5
BOZ EP	01 07 38.0
EUR IP	01 07 40.5
BCN EP	01 07 56.8
TUC IP	01 08 22.0
ALQ IP	01 08 29.0
I	08 40.0
I	08 48.5
JUN 20	
BHP P	01 02 59.0
S	03 25.0
JUN 20	
TUC E(P)	02 16 07.0
JUN 20	
BCN I(P)	02 20 29.9
EL	21 21.4
JUN 20	
H-03 34 27.2	
13.9N 089.5W	
h ABOUT 043KM	
TUC E(P)	03 40 04.0
EUR E(P)	03 41 12.1
I	41 28.6
JUN 20	
EUR E(P)	03 43 29.9
I	43 45.1
JUN 20	
EUR E(P)	03 45 24.4
JUN 20	
TUC E(P)	04 03 51.0

Date and Station	Phase (GCT)
	h m s
JUN 20	
TUC E(P)	04 47 12.8
BCN IP	04 47 16.2
EL	48 21.0
EUR IP	04 48 02.5
EL	50 04.0
JUN 20	
COL E(P)	05 56 19.0
EUR EP	05 56 20.5
JUN 20	
EUR EP	07 18 44.7
JUN 20	
EUR EP	07 20 05.4
EL	21 11.5
JUN 20	
TUC E(P)	09 12 47.0
JUN 20	
TUC EP	09 39 26.8
E	39 31.0
JUN 20	
H-10 23 18.4	
07.6S 074.7W	
h ABOUT 133KM	
ALQ E(P)	10 32 16.0
JUN 20	
EUR E(P)	10 59 57.0
JUN 20	
H-12 00 05.3	
31.6N 140.2E	
h ABOUT 033KM	
COL EP	12 09 31.3
EUR EP	12 12 12.5
JUN 20	
BUT IP	12 30 17.8
E	31 08.3
JUN 20	
BOZ EP	12 56 29.0
I	56 32.0
JUN 20	
H-14 59 42.6	
30.2N 114.1W	
h ABOUT 014KM	
TUC EP	15 00 38.5
ES	01 17.5
BCN EP	15 01 10.6
ES	02 12.6
EUR EP	15 02 02.0
EL	04 41.5
JUN 20	
BHP P	15 18 47.0
S	19 28.0

Date and Station	Phase (GCT)
	h m s
JUN 20	
BOZ E(P)	15 29 58.0
JUN 20	
EUR EP	15 55 10.9
JUN 20	
HHM E(P)	16 15 10.0
ES	16 12.0
JUN 20	
H-19 47 40.0	
35.6N 003.6W	
h ABOUT 046KM	
HHM E(P)	19 59 17.0
ALQ IP	19 59 45.0
EUR EP	20 00 00.2
TUC IP	20 00 08.2
I	00 12.9
JUN 20	
H-20 42 17.1	
02.3S 077.5W	
h ABOUT 033KM	
TUC E(P)	20 50 45.0
E	50 49.0
JUN 20	
ALQ E(P)	21 17 44.0
JUN 20	
COL IP	21 31 46.3
I(S)	32 02.0
JUN 20	
TUC EP	21 52 39.0
JUN 20	
EUR IP	22 24 57.1
JUN 20	
H-22 46 18.8	
28.0S 176.5W	
h ABOUT 048KM	
KIP EP	22 55 27.0
ES	23 02 54.0
EL	08 15.0
HON E(P)	22 55 33.0
ES	23 02 54.0
ESCS	05 31.0
EL	08 10.0
TUC EP	22 58 58.0
SLC E(P)	22 59 01.9
E	59 30.4
EUR EP	22 59 02.5
BOZ E(P)	22 59 10.0
ALQ IP	22 59 19.4
IPP	59 33.1
BUT E(P)	22 59 31.0
COL IP	22 59 37.9

Date and Station	Phase (GCT)
	h m s
JUN 20	
H-23 15 33.5	
52.9N 168.6W	
h ABOUT 033KM	
COL EP	23 19 17.2
EUR EP	23 22 48.7
EPCP	25 03.0
ALQ EP	23 24 02.5
IPCP	25 32.5
JUN 20	
EUR EP	23 17 41.0
JUN 20	
EUR E(P)	23 45 20.0
JUN 20	
SLC IP	23 47 25.4
IS	47 40.4
EUR EP	23 48 12.5
E(S)	49 05.5
JUN 20	
SLC IP	23 55 24.2
IS	55 51.4
EUR EP	23 56 09.5
E(S)	56 50.5
JUN 20	
SLC E(P)	23 58 52.4
BCN EP	23 58 57.8
JUN 21	
H-00 08 34.9	
30.2S 177.4W	
h ABOUT 104KM	
TUC EP	00 21 17.5
EUR EP	00 21 22.1
ALQ E(P)	00 21 38.5
JUN 21	
TUC EP	00 32 38.0
SLC EP	00 33 08.9
IS	33 34.4
EUR E(P)	00 33 57.5
E(S)	34 38.6
JUN 21	
H-03 32 41.0	
10.7N 085.8W	
h ABOUT 073KM	
BHP P	03 34 15.0
ALQ IP	03 38 50.5
I	39 09.2
TUC EP	03 38 58.0
EPCP	41 50.0
BCN EP	03 39 41.5
EUR EP	03 40 05.6

Date and Station	Phase	(GCT)
		h m s
COL	EP	03 43 37.0
JUN 21		
H-04 02 53.7		
15.0N 091.7W		
h ABOUT 219KM		
ALQ	IP	04 07 49.8
	ESCP	14 10.0
TUC	E(P)	04 07 53.0
BCN	EP	04 08 39.4
	E	09 07.0
EUR	EP	04 09 05.0
	IPCP	11 57.5
COL	IP	04 12 54.6
	EPP	13 45.0
JUN 21		
EUR	EP'	06 04 32.1
	I	04 44.9
	E	06 31.4
JUN 21		
ALQ	IP	06 07 26.5
JUN 21		
EUR	EP	08 46 25.9
JUN 21		
COL	IP	09 34 38.7
JUN 21		
H-12 13 13.8		
4.9S 081.2W		
h ABOUT 045KM		
ALQ	IP	12 21 36.5
EUR	EP	12 22 40.4
	EPCP	23 49.0
JUN 21		
H-12 18 24.4		
23.8S 066.6W		
h ABOUT 203KM		
SJP	EP	12 25 54.3
ALQ	IP	12 29 13.3
TUC	IP	12 29 15.9
BCN	IP	12 29 46.8
	E	30 16.0
RCD	E(P)	12 29 49.2
EUR	I(P)	12 30 02.9
	I	30 14.9
	EPP	30 53.3
	E	32 28.3
BOZ	EP	12 30 15.0
COL	I(P)	12 32 20.7
JUN 21		
EUR	IP	12 21 58.1
	I	22 08.1

Date and Station	Phase	(GCT)
		h m s
JUN 21		
BHP	P	12 24 35.0
JUN 21		
SJP	IP	12 43 37.5
JUN 21		
H-13 05 53.5		
15.2S 173.0W		
h ABOUT 033KM		
ALQ	EP	13 18 04.9
COL	IP	13 18 11.85
JUN 21		
SIT	IP	13 44 16.6
	IS	44 23.5
JUN 21		
EUR	IP	13 44 50.0
	I	45 00.0
JUN 21		
H-13 44 20.8		
47.8N 130.5E		
h ABOUT 008KM		
COL	IP	13 52 35.6
EUR	EP	13 56 04.7
	E	56 36.7
BCN	E(P)	13 56 24.1
TUC	EP	13 56 49.0
ALQ	IP	13 56 49.9
JUN 21		
H-14 10 16.7		
13.1S 166.7E		
h ABOUT 274KM		
COL	IP	14 22 22.0
	E	23 09.0
EUR	E(P)	14 22 59.0
JUN 21		
H-14 30 16.2		
2.6N 128.6E		
h ABOUT 225KM		
COL	EP	14 42 28.0
JUN 21		
SJP	IP	15 15 48.0
EUR	EP	15 23 57.0
JUN 21		
H-15 26 29.3		
24.9N 092.1E		
h ABOUT 053KM		
COL	IP	15 38 31.5
	IPP	41 32.0
EUR	E(P)	15 41 03.0
	EP'	44 59.7
	E	45 26.0
TUC	IP'	15 45 15.0

Date and Station	Phase	(GCT)
		h m s
JUN 21		
BOZ	IP	15 43 21.9
	IS	43 27.0
BUT	EP	15 43 28.8
HHM	E(P)	15 44 06.0
	I	44 14.0
JUN 21		
BCN	IP	17 01 34.5
	IS	02 16.5
TUC	E(P)	17 01 47.0
EUR	EP	17 02 12.1
	ILG	17 03 57.0
JUN 21		
H-17 42 33.4		
27.9S 176.3W		
h ABOUT 009KM		
TUC	EP	17 55 17.0
EUR	EP	17 55 22.3
COL	E(P)	17 55 57.0
JUN 21		
RCD	E(P)	18 29 49.2
JUN 21		
SLC	IP	18 51 47.0
JUN 21		
EUR	IP	20 10 42.4
JUN 21		
H-21 42 00.5		
29.9S 177.1W		
h ABOUT 047KM		
EUR	EP	21 54 51.9
ALQ	E(P)	21 55 09.2
JUN 21		
EUR	EP	21 50 05.2
	ES	50 49.9
TUC	EP	21 52 25.5
	E(S)	54 49.0
JUN 21		
BCN	IP	22 43 46.8
	ES	44 18.9
JUN 21		
TUC	IP	22 58 10.0
JUN 21		
BCN	IP	23 27 07.8
	E(S)	27 40.0
EUR	E(P)	23 27 40.3
	EL	29 05.0
JUN 21		
EUR	E(P)	23 37 16.9
	EL	38 20.3

Date and Station	Phase	(GCT)
		h m s
JUN 21		
BCN	EP	23 39 17.8
	I(S)	40 09.8
TUC	E(P)	23 40 03.1
JUN 22		
SJP	IP	01 01 21.0
	ES	01 34.5
JUN 22		
EUR	E(P)	01 10 02.9
	E	10 28.2
JUN 22		
H-04 37 21.3		
06.1S 154.4E		
h ABOUT 058KM		
COL	IP	04 49 37.0
	I	50 06.0
EUR	EP	04 50 32.3
	E	50 56.0
BCN	EP	04 50 36.0
JUN 22		
H-08 35 14.6		
41.1S 090.3W		
h ABOUT 025KM		
TUC	E(P)	08 46 57.0
ALQ	EP	08 47 07.3
EUR	E(P)	08 47 34.9
JUN 22		
ALQ	EP	11 45 35.0
JUN 22		
H-12 24 53.2		
15.3S 172.9W		
h ABOUT 033KM		
TUC	IP	12 36 39.2
EUR	EP	12 36 40.9
ALQ	IP	12 37 04.2
COL	IP	12 37 11.5
	I	37 30.0
JUN 22		
EUR	E(P)	14 21 34.2
COL	E(P)	14 22 11.0
JUN 22		
H-16 12 14.0		
06.0S 113.1E		
h ABOUT 594KM		
HHM	EP'	16 30 03.3
EUR	IP'	16 30 10.0
ALQ	IP'	16 30 27.0
	EPP'	32 58.0

Date and Station	Phase (GCT)
	h m s
JUN 22	
H-16 21 29.9	
31.0S 068.3W	
h ABOUT 129KM	
TUC E(P)	16 32 54.5
EUR EP	16 33 43.2
JUN 22	
FUR EP	17 53 49.1
E	54 23.0
JUN 22	
ALQ EP	18 04 19.2
JUN 22	
EUR EP	18 19 05.4
EL	20 11.6
JUN 22	
ALQ E(P)	20 14 20.0
JUN 22	
FUR FP	20 24 28.6
ALQ IP	20 24 56.9
JUN 22	
FUR E(P)	20 46 17.1
JUN 22	
FUR EP	20 46 43.1
JUN 22	
H-20 51 57.6	
53.1N 121.1E	
h ABOUT 033KM	
COL E(P)	21 00 04.0
EUR E(P)	21 03 39.6
E	03 46.6
I	04 08.1
JUN 22	
H-21 27 58.4	
30.1S 177.2W	
h ABOUT 033KM	
FUR FP	21 40 54.9
JUN 22	
FUR EP	21 43 59.6
JUN 22	
FUR F(P)	21 49 14.1
JUN 22	
EUR E(P)	21 49 32.8
JUN 22	
SLC IP	23 11 47.6
IS	12 11.6
JUN 22	
SLC EP	23 45 13.6
IS	45 40.0
JUN 23	
SLC IP	00 17 13.2
IS	17 38.6

Date and Station	Phase (GCT)
	h m s
EUR EP	00 17 57.6
IL	18 47.1
JUN 23	
EUR E(P)	01 21 08.6
JUN 23	
H-03 49 34.1	
29.7S 177.9W	
h ABOUT 052KM	
KIP EP	03 58 58.0
E(S)	04 06 45.0
E	14 12.0
EL	19 34.0
TUC EP	04 02 22.5
I	02 23.6
E	02 41.0
BCN EP	04 02 22.6
FUR EP	04 02 28.2
ALQ EP	04 02 42.9
IPP	02 57.0
COL IP	04 03 00.8
HON ES	04 06 35.0
E	14 09.0
EL	18 20.0
JUN 23	
EUR E(P)	04 18 19.5
JUN 23	
H-08 53 09.5	
6.0S 146.6E	
h ABOUT 060KM	
GUA IP	08 57 36.0
KIP EP	09 03 18.0
COL IP	09 05 40.1
EPP	09 15.0
EUR EP	09 06 48.9
E	07 09.9
E	07 19.4
EPP	10 49.3
ALQ EP'	09 11 32.0
SJP IP'	09 12 44.0
E	17 33.0
JUN 23	
H-09 03 49.1	
37.6N 141.7E	
h ABOUT 042KM	
COL IP	09 12 29.7
EUR EP	09 15 30.0
ALQ EP	09 16 16.8
E	16 33.0
JUN 23	
H-09 33 53.2	
45.6N 014.9E	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	09 46 22.3
JUN 23	
TUC E(P)	10 00 07.5
ALQ E(P)	10 00 25.0
JUN 23	
TUC E(P)	10 21 52.0
JUN 23	
H-10 51 48.8	
09.0S 113.1E	
h ABOUT 157KM	
COL EP	11 05 28.0
EUR EP'	11 10 53.2
JUN 23	
H-11 07 31.0	
23.9S 067.3W	
h ABOUT 204KM	
ALQ IP	11 18 18.5
TUC EP	11 18 21.0
EUR EP	11 19 08.0
JUN 23	
TUC EP	11 14 17.0
ALQ EP	11 14 26.0
JUN 23	
TUC E(P)	11 28 11.5
JUN 23	
H-12 05 20.9	
21.2N 108.2W	
h ABOUT 033KM	
TUC E(P)	12 08 03.0
ALQ E(P)	12 08 37.0
EUR EP	12 09 47.4
JUN 23	
H-13 11 28.0	
51.9N 131.5W	
h ABOUT 033KM	
HHM E(P)	13 14 17.0
COL E(P)	13 15 04.0
EUR EP	13 15 21.0
RCD EP	13 16 05.3
ALQ IP	13 16 49.0
BUT EP	13 18 21.2
JUN 23	
KIP IP	13 36 01.8
JUN 23	
EUR EP	17 11 16.7
ALQ E(P)	17 11 40.6

Date and Station	Phase (GCT)
	h m s
COL IP	17 11 48.8
JUN 23	
H-18 27 11.3	
12.3N 140.7E	
h ABOUT 036KM	
GUA IP	18 28 16.0
ES	29 07.0
COL EP	18 38 27.0
EUR EP	18 40 20.7
JUN 23	
BCN EP	19 54 27.1
IS	54 39.1
EUR EP	19 55 24.4
EL	56 29.4
JUN 23	
BCN EP	19 56 11.6
ES	56 57.1
JUN 23	
TUC E(P)	20 58 11.5
JUN 23	
COL EP	22 14 20.0
JUN 23	
SLC E(P)	22 37 55.2
JUN 23	
SLC EP	22 40 08.2
ES	40 32.2
EUR EP	22 40 59.6
ES	41 37.1
JUN 23	
BHP P	22 45 55.0
JUN 23	
TUC EP	22 52 54.0
JUN 24	
H-02 59 17.5	
10.6S 163.3E	
h ABOUT 059KM	
COL IP	03 11 40.5
EUR EP	03 12 10.2
I	12 21.2
JUN 24	
BUT EP	03 30 24.2
IS	30 39.2
JUN 24	
H-04 26 37.9	
59.5N 151.7W	
h ABOUT 052KM	
COL IP	04 28 03.4
SIT E(P)	04 28 41.7
ES	30 19.2
HHM IP	04 31 53.0
IS	36 21.0

Date and Station	Phase	Phase (GCT) h m s
BUT	EP	04 32 14.5
	ES	37 04.2
BOZ	E(P)	04 32 14.7
	ES	37 06.0
UKI	I(P)	04 32 25.0
	ES	37 08.0
EUR	EP	04 32 44.8
	I▸P	33 00.0
	IPP	33 57.4
	IS	37 47.9
	ISCP	38 24.5
SLC	IP	04 32 56.4
	IS	38 10.2
RCD	EP	04 33 08.5
BCN	EP	04 33 15.9
	EPCP	35 58.6
	ESCP	39 40.1
ALQ	IP	04 33 55.0
TUC	IP	04 33 56.0
HON	EP	04 33 56.0
	EPP	35 37.0
	IS	39 55.0
	IL	42 20.0
KIP	EP	04 33 56.0
	IPP	35 33.0
	IPCP	36 16.0
	ES	39 54.0
	EL	42 18.0
PHI	EP	04 35 30.0
	IPP	37 31.5
	IS	42 37.5
CSC	EP	04 35 41.7
	ES	43 00.0
	EL	47 14.0
SJP	IP	04 37 59.5
	I	39 13.6
	IPP	40 26.8
	EPPP	42 19.6
	E	48 23.0
BHP	P	04 38 08.0
JUN 24		
EUR	EP	05 04 43.1
JUN 24		
COL	I(P)	05 10 32.0
JUN 24		
COL	E(P)	05 19 30.0
JUN 24		
H-05 43 48.0		
59.4N 151.5W		
h ABOUT 056KM		
COL	IP	05 45 13.0
	I(S)	46 18.0
SIT	E(P)	05 45 49.0
HHM	EP	05 49 02.2
BUT	EP	05 49 23.2
EUR	IP	05 49 53.4
RCD	EP	05 50 16.9
ALQ	EP	05 51 03.5
	EPCP	53 18.5
JUN 24		
COL	IP	05 51 41.6
	ES	52 46.0
JUN 24		
COL	IP	05 56 15.0
	ES	57 22.0
HHM	E(P)	06 00 03.0
JUN 24		
COL	IP	06 09 52.0
JUN 24		
H-06 18 59.1		
58.8N 154.3W		
h ABOUT 033KM		
COL	I(P)	06 20 35.0
	E(S)	21 42.0
	IL	22 16.0
EUR	E(P)	06 25 15.5
JUN 24		
HHM	IP	06 20 22.0
JUN 24		
H-06 30 44.8		
59.4N 152.2W		
h ABOUT 044KM		
COL	IP	06 32 12.3
	ES	33 18.0
HHM	EP	06 36 01.9
EUR	E(P)	06 36 53.4
JUN 24		
COL	IP	08 14 46.0
	E(S)	15 52.0
	EL	16 22.0
JUN 24		
BUT	E(P)	10 00 22.0
JUN 24		
TUC	E(P)	10 08 13.5
JUN 24		
EUR	EP	10 15 43.7
COL	EP	10 16 25.0
JUN 24		
H-10 17 04.2		
52.9N 131.7W		
h ABOUT 056KM		
SIT	E(P)	10 18 08.4
	ES	19 02.0
HHM	EP	10 19 56.9
	EL	23 30.9
BUT	EP	10 20 23.0
	EL	24 25.2
COL	EP	10 20 32.0
	EL	24 53.0
EUR	IP	10 21 02.7
RCD	EP	10 21 42.3
ALQ	EP	10 22 26.1
TUC	EP	10 22 28.0
JUN 24		
EUR	EP	12 41 48.4
JUN 24		
H-13 17 48.3		
25.6S 175.2W		
h ABOUT 058KM		
BCN	EP	13 30 12.9
TUC	IP	13 30 15.2
	I▸P	30 27.9
	EsP	30 40.0
EUR	EP	13 30 18.8
ALQ	EP	13 30 36.0
	I▸P	30 49.0
HHM	E(P)	13 30 40.0
COL	EP	13 30 54.0
HON	E(S)	13 33 42.0
	FL	38 02.0
JUN 24		
H-14 18 31.4		
59.1N 136.8W		
h ABOUT 033KM		
SIT	EP	14 18 59.6
	IS	19 30.4
COL	E(P)	14 20 22.0
	I	22 30.0
HHM	E(P)	14 22 28.0
BOZ	E(P)	14 23 06.6
	EL	29 13.0
EUR	EP	14 23 39.8
JUN 24		
BUT	E(P)	14 28 43.0
JUN 24		
SIT	EP	14 33 13.0
JUN 24		
H-15 01 42.7		
15.4S 177.6W		
h ABOUT 397KM		
BCN	IP	15 13 02.6
EUR	IP	15 13 06.1
	I	13 23.1
TUC	EP	15 13 08.9
	EPP	16 14.0
COL	IP	15 13 25.8
	E▸P	15 01.0
ALQ	E(P)	15 13 31.3
HHM	EP	15 13 33.8
BUT	EP	15 13 34.2
JUN 24		
BOZ	EP	15 13 13.0
JUN 24		
EUR	EP	15 16 11.6
JUN 24		
EUR	EP	16 03 55.5
JUN 24		
H-16 17 15.7		
52.2N 171.1W		
h ABOUT 036KM		
COL	IP	16 21 18.0
	ES	24 26.0
SIT	EP	16 22 01.6
	E(S)	26 00.0
HON	EP	16 23 46.0
	ES	29 00.0
KIP	E(P)	16 23 57.0
	ES	29 00.0
	EL	31 08.0
	ET	57 41.0
HHM	IP	16 24 14.8
	IPCP	26 40.8
	ES	29 51.0
	I	30 24.8
BUT	EP	16 24 32.1
EUR	E(P)	16 24 34.5
	IPCP	27 08.0
	ISCP	30 37.2
BOZ	EP	16 24 41.0
SLC	EP	16 24 57.5
BCN	EP	16 25 09.9
	ESCP	30 49.4
RCD	EP	16 25 25.5
TUC	IP	16 25 47.2
CSC	EP	16 27 47.0
SJP	EP	16 29 45.0
JUN 24		
H-16 25 56.4		
52.4N 171.2W		
h ABOUT 019KM		

Date and Station	Phase (GCT)
	h m s
COL EP	16 29 58.0
EUR IP	16 33 28.2
JUN 24	
H-16 52 05.9	
52.2N 171.1W	
h ABOUT 033KM	
COL E(P)	16 56 07.0
EUR EP	16 59 36.5
E	17 01 43.2
TUC IP	17 00 39.0
ALQ E(P)	17 00 46.0
JUN 24	
COL IP	18 34 35.8
JUN 24	
COL IP	19 37 27.4
JUN 24	
BOZ EP	21 39 23.8
I,	39 29.0
JUN 24	
SLC EP	22 54 16.9
ES	54 39.9
JUN 24	
EUR EP	23 39 56.7
JUN 24	
SJP IP	23 54 15.4
IL	56 08.0
JUN 24	
TUC EP	23 56 14.0
JUN 25	
EUR E(P)	00 00 35.7
JUN 25	
BHP P	00 10 14.0
JUN 25	
H-02 29 36.2	
19.0S 177.5W	
h ABOUT 565KM	
EUR EP	02 40 56.8
TUC IP	02 40 58.0
E*P	43 02.0
ALQ EP	02 41 19.0
JUN 25	
COL EP	02 43 24.0
JUN 25	
H-02 46 51.3	
7.5S 155.9E	
h ABOUT 092KM	
COL E(P)	02 59 07.0
JUN 25	
HON FT	03 48 32.0
KIP FT	03 48 33.0

Date and Station	Phase (GCT)
	h m s
JUN 25	
COL FP	07 02 10.1
JUN 25	
BCN EP	07 44 33.8
I(S)	45 36.0
EUR EP	07 45 14.9
EL	47 07.1
JUN 25	
BHP P	08 09 04.0
JUN 25	
H-08 26 21.7	
44.3N 129.1W	
h ABOUT 032KM	
EUR EP	08 29 00.4
HHM EP	08 29 03.5
BUT EP	08 29 12.1
BOZ E(P)	08 29 26.5
BCN EP	08 29 36.6
TUC IP	08 30 38.2
RCD EP	08 30 39.0
ALQ IP	08 30 51.2
E	31 00.0
COL E(P)	08 31 26.0
JUN 25	
TUC EP	08 50 14.0
COL IP	08 50 43.5
JUN 25	
COL EP	09 18 55.0
I	19 14.1
JUN 25	
H-09 39 30.4	
44.3N 129.0W	
h ABOUT 043KM	
HHM E(P)	09 42 05.5
EUR IP	09 42 07.3
BUT EP	09 42 19.1
BOZ E(P)	09 42 33.8
BCN EP	09 42 43.0
TUC EP	09 43 45.0
RCD EP	09 43 48.0
ALQ EP	09 43 57.6
E	44 19.1
COL E(P)	09 44 34.0
JUN 25	
TUC E(P)	10 38 03.0
I	39 18.0

Date and Station	Phase (GCT)
	h m s
EUR EP	10 39 18.8
JUN 25	
H-10 45 31.8	
15.9S 075.2W	
h ABOUT 033KM	
EUR EP	10 56 24.3
JUN 25	
BHP P	10 54 11.0
JUN 25	
H-11 43 38.2	
08.5N 083.0W	
h ABOUT 019KM	
BHP P	11 44 31.0
S	45 13.0
SJP EP	11 48 04.0
CSC EP	11 49 07.0
TUC IP	11 50 32.0
RCD EP	11 51 10.7
BCN EP	11 51 14.1
EUR EP	11 51 36.9
HHM E(P)	11 52 07.5
COL IP	11 55 01.9
JUN 25	
TUC E(P)	12 11 36.0
JUN 25	
H-14 32 09.9	
8.8S 106.3E	
h ABOUT 042KM	
COL EP'	14 50 01.0
TUC E(P')	14 51 09.5
I	54 19.0
EUR EP'	14 51 21.4
ESKP	54 42.0
ALQ EP'	14 51 32.0
E	51 40.0
E	51 49.0
JUN 25	
H-15 51 49.6	
44.0N 110.0W	
h ABOUT 033KM	
BOZ IP	15 52 19.9
IS	52 44.0
BUT EP	15 52 31.1
FGU IP	15 52 36.2
SLC EP	15 52 45.0
I	52 48.5
IS	53 28.2
RCD EP	15 53 04.4

Date and Station	Phase (GCT)
	h m s
HHM EP	15 53 06.1
I	53 25.2
ES	54 28.2
EUR EP	15 53 21.3
IL	54 55.4
BCN E(P)	15 53 57.9
TUC E(P)	15 55 02.2
I	57 53.2
COL IP	15 57 55.4
JUN 25	
H-16 04 19.3	
20.4S 176.1W	
h ABOUT 250KM	
TUC EP	16 16 11.0
E*P	17 12.0
EUR EP	16 16 12.0
COL IP	16 16 39.0
E*P	17 40.0
JUN 25	
EUR EP	16 06 25.8
IL	07 32.6
JUN 25	
TUC E(P)	16 38 04.0
BCN EP	16 39 07.2
E(S)	41 07.2
EUR EP	16 39 52.5
EL	43 26.0
ALQ E(P)	16 39 42.0
JUN 25	
BCN EP	21 45 11.0
IS	45 18.3
JUN 25	
SLC E(P)	21 50 33.4
I	51 15.7
JUN 25	
H-23 00 00.1	
37.1N 116.1W	
h ABOUT 000KM	
BCN IP	23 00 28.1
EUR IP	23 00 40.5
SLC EP	23 01 18.4
IL	02 45.4
TUC IP	23 01 37.9
BUT E(P)	23 02 28.0
JUN 25	
ALQ E(P)	23 01 32.9
UKI E(P)	23 02 02.0
JUN 25	
SLC EP	23 09 41.9
ES	10 09.9

Date and Station	Phase	(GCT) h m s
BCN	EP	23 10 10.0
	I(S)	10 31.0
EUR	EP	23 10 10.4
JUN 25		
EUR	EP	23 15 43.4
JUN 25		
BCN	IP	23 45 06.5
	IS	45 18.1
JUN 25		
SLC	EP	23 49 44.2
	IS	50 06.9
JUN 26		
SLC	EP	00 29 05.1
	IS	29 31.0
JUN 26		
H-00 59 11.2		
7.1N 082.0W		
h ABOUT 059KM		
BHP	P	00 59 59.0
	S	01 00 39.0
ALQ	EP	01 06 05.8
BCN	EP	01 06 57.8
EUR	EP	01 07 18.3
JUN 26		
H-01 33 52.1		
32.8S 071.6W		
h ABOUT 088KM		
ALQ	EP	01 45 25.0
EUR	EP	01 46 08.5
JUN 26		
EUR	IP	01 38 35.5
	IS	39 08.3
JUN 26		
H-04 40 24.5		
55.3N 160.3E		
h ABOUT 005KM		
COL	EP	04 46 07.0
EUR	IP	04 50 01.7
ALQ	EP	04 51 00.0
JUN 26		
EUR	EP	04 53 21.6
JUN 26		
BUT	EP	04 54 38.0
	ES	54 54.1
JUN 26		
BHP	P	05 24 28.0
JUN 26		
UKI	E(P)	06 00 17.1
	E(S)	01 58.1
JUN 26		
H-07 55 40.4		
11.6N 142.9E		
h ABOUT 044KM		
GUA	IP	07 56 24.0
	ES	56 57.0
COL	IP	08 06 52.0
	IPCP	07 16.0
EUR	EP	08 08 44.1
BCN	EP	08 08 53.6
JUN 26		
ALQ	EP	08 00 31.0
EUR	EP	08 01 46.6
JUN 26		
H-08 33 20.2		
38.9N 142.1E		
h ABOUT 053KM		
COL	E(P)	08 42 01.0
EUR	EP	08 44 54.1
	EPP	45 07.4
BCN	EP	08 45 11.0
ALQ	EP	08 45 41.9
JUN 26		
H-09 41 37.8		
04.6N 126.5E		
h ABOUT 094KM		
COL	EP	09 53 58.0
EUR	E(P)	09 56.00.0
	EP'	59 59.0
	E	10 11 12.0
	EPKKP	11 25.0
ALQ	EP'	10 00 16.0
SJP	EP'	10 01 31.0
JUN 26		
H-10 27 02.8		
35.4N 003.4W		
h ABOUT 033KM		
RCD	E(P)	10 38 28.0
COL	E(P)	10 38 49.0
ALQ	EP	10 39 10.0
EUR	EP	10 39 27.7
TUC	IP	10 39 34.0
	I	39 40.4
BCN	EP	10 39 35.5
JUN 26		
BOZ	E(P)	12 00 10.0
	E	02 06.0
JUN 26		
H-14 09 19.7		
36.4N 076.6E		
h ABOUT 095KM		
COL	IP	14 20 41.5
	EPP	23 25.0
	E	24 07.0
	EPPP	25 08.0
EUR	EP	14 23 14.4
	EPP	23 45.9
	E(P')	26 45.4
JUN 26		
H-14 23 07.8		
06.8N 073.1W		
h ABOUT 142KM		
BHP	P	14 24 45.0
SJP	IP	14 26 13.3
	IS	28 31.2
ALQ	E(P)	14 30 44.0
TUC	IP	14 30 57.0
BCN	EP	14 31 36.3
EUR	IP	14 31 52.9
	E	32 44.9
	ESCP	36 51.1
	ES	39 04.1
COL	EP	14 34 47.0
	EPP	37 45.0
JUN 26		
H-16 51 41.6		
23.6S 177.0W		
h ABOUT 033KM		
TUC	IP	17 04 11.6
EUR	EP	17 04 13.4
ALQ	IP	17 04 33.2
JUN 26		
H-17 42 42.2		
07.0N 082.3W		
h ABOUT 034KM		
BHP	P	17 43 33.0
SJP	IP	17 47 08.0
CSC	EP	17 48 22.0
	ES	53 00.0
WAS	EP	17 49 08.0
	EPP	50 06.0
	ES	54 00.0
ALQ	IP	17 49 39.0
TUC	IP	17 49 47.0
	ES	55 34.0
RCD	IP	17 50 25.7
	ES	56 42.4
BCN	IP	17 50 29.7
EUR	IP	17 50 51.3
BOZ	EP	17 51 04.0
	ES	57 51.0
BUT	IP	17 51 10.0
	PP	53 02.0
	ES	58 04.0
HHM	IP	17 51 28.7
	E	56 15.2
	ES	58 37.2
	EL	18 02 43.2
	E	09 43.2
UKI	E(P)	17 51 33.9
COL	IP	17 54 12.0
	IPP	56 56.0
	ESCS	18 04 40.0
HON	EP	17 54 18.0
	ES	18 03 59.0
KIP	EP	17 54 18.0
	ES	18 03 51.0
	EL	13 46.0
JUN 26		
ALQ	IP	21 19 57.0
JUN 26		
EUR	EP	22 31 26.8
JUN 26		
HHM	EP	23 02 47.6
JUN 27		
H-00 06 14.1		
18.5S 177.5W		
h ABOUT 402KM		
EUR	EP	00 17 48.5
JUN 27		
EUR	E(P)	01 42 36.3
JUN 27		
KIP	IP	02 13 58.5
	I	15 08.0
JUN 27		
ALQ	EP	03 00 11.0
JUN 27		
H-03 12 08.0		
24.1S 066.0W		
h ABOUT 203KM		
ALQ	IP	03 23 00.0
EUR	EP	03 23 48.7
JUN 27		
H-07 08 01.8		
60.5N 140.8W		
h ABOUT 031KM		
SIT	EP	07 09 05.4
	IS	09 51.9
	IL	10 21.6
COL	IP	07 09 23.3
	IS	10 40.0

Date and Station	Phase (GCT)
	h m s
HHM EP	07 12 27.2
EL	18 13.2
BUT EP	07 12 54.0
EL	19 28.0
BOZ EP	07 13 05.0
EL	20 15.0
RCD EP	07 13 53.6
BCN EP	07 14 07.1
ALQ IP	07 14 43.0
TUC IP	07 14 48.2
I	14 59.0
HON E	07 22 11.0
EL	25 24.0
JUN 27	
WAS EP	07 28 20.0
E	31 08.0
CSC E(P)	07 31 35.0
E	32 20.0
JUN 27	
H-07 23 14.9	
23.2S 177.1W	
h ABOUT 332KM	
TUC EP	07 35 10.6
JUN 27	
COL E(P)	07 36 08.0
JUN 27	
H-08 12 54.9	
15.9S 173.2W	
h ABOUT 033KM	
ALQ E(P)	08 25 07.8
COL IP	08 25 17.0
JUN 27	
ALQ EP	08 30 51.1
JUN 27	
ALQ IP	12 09 27.0
JUN 27	
H-12 21 26.4	
30.0S 177.9W	
h ABOUT 059KM	
BCN EP	12 34 11.0
EPP	34 27.2
TUC IP	12 34 17.0
IPP	34 33.8
ALQ IP	12 34 37.0
IPP	34 54.0
COL EP	12 34 54.0
JUN 27	
H-13 15 15.7	
11.7S 077.6W	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
ALQ EP	13 24 39.1
JUN 27	
HHM IP	13 57 51.7
IS	58 12.7
JUN 27	
EUR EP	14 31 23.5
JUN 27	
H-15 08 06.0	
39.1N 141.1E	
h ABOUT 079KM	
COL IP	15 16 34.6
EUR EP	15 19 39.5
E	20 08.0
JUN 27	
H-15 32 53.1	
14.4N 093.7E	
h ABOUT 033KM	
COL IP	15 45 43.0
IPP	49 09.0
EUR EP'	15 51 41.0
EPP	53 07.0
E(SKP)	55 13.0
ALQ IP'	15 51 56.6
ISKP	55 10.7
TUC IP'	15 51 57.2
I	52 13.0
JUN 27	
ALQ EP	16 35 53.0
JUN 27	
SLC EP	23 04 20.1
JUN 27	
BCN IP	23 12 03.8
IS	12 15.4
EUR EP	23 12 55.3
EL	14 06.3
JUN 27	
H-23 25 03.5	
48.1N 152.8E	
h ABOUT 118KM	
COL EP	23 31 49.0
EUR EP	23 35 16.9
EPP	35 46.4
IPP	36 00.9
JUN 28	
H-00 33 00.3	
16.8N 096.0W	
h ABOUT 033KM	
TUC EP	00 37 35.9
ALQ E(P)	00 37 40.8
JUN 28	
H-02 28 50.7	
27.5S 066.0E	
h ABOUT 028KM	

Date and Station	Phase (GCT)
	h m s
COL EP'	02 48 11.0
E	50 40.0
IPP	50 56.0
BUT EP'	02 48 36.0
EPP	53 18.0
CSC EP'	02 48 47.0
HHM EP'	02 48 47.7
I	49 24.2
EPP	53 05.2
SLC EP'	02 48 55.8
IP'	49 59.0
EUR EP'	02 48 56.2
IP'	50 03.3
EPP	53 45.7
I	53 53.2
E	54 15.7
ESKS	56 37.7
E	57 09.3
EPPP	57 57.7
E	03 01 59.8
ALQ EP'	02 48 58.0
EP'	50 14.0
EPP	54 04.0
BCN EP'	02 49 00.6
EP'	50 20.6
EPP	54 13.1
TUC IP'	02 49 00.9
IP'	50 33.0
I	50 39.1
I	50 47.0
EPP	54 22.0
E	57 38.9
JUN 28	
TUC EP	02 34 25.0
E(S)	35 24.0
JUN 28	
SLC E(P)	02 48 38.0
JUN 28	
BOZ E(P)	02 53 20.0
JUN 28	
H-04 36 25.6	
43.6N 146.5E	
h ABOUT 043KM	
COL IP	04 44 10.0
EUR EP	04 47 27.7
JUN 28	
WAS EP	05 48 30.0
JUN 28	
COL EP	06 11 03.0
JUN 28	
TUC E(P)	07 37 04.6
E	37 07.9
JUN 28	
TUC E(P)	08 29 33.0

Date and Station	Phase (GCT)
	h m s
JUN 28	
TUC EP	09 51 38.5
JUN 28	
EUR EP	09 59 46.5
JUN 28	
TUC E(P)	11 58 04.0
JUN 28	
COL IP	13 24 36.0
IS	25 00.0
JUN 28	
H-13 47 44.9	
1.2N 097.3E	
h ABOUT 027KM	
EUR EP'	14 06 53.5
EPP	09 05.0
ALQ EP'	14 07 02.0
HON E	14 15 24.0
E	20 56.0
EL	39 25.0
JUN 28	
EUR EP	14 52 05.5
ALQ E(P)	14 52 34.5
JUN 28	
COL E(P)	16 13 07.0
JUN 28	
ALQ IP	20 31 20.0
JUN 28	
BHP P	21 54 14.0
JUN 28	
H-21 55 36.8	
46.7N 153.3E	
h ABOUT 012KM	
GUA EP	22 02 18.0
COL IP	22 02 40.3
EPP	03 52.0
IS	08 21.2
IL	17 36.0
SIT EP	22 03 44.0
IS	10 14.0
HON IP	22 04 05.0
EPCP	05 29.0
E	06 20.0
IS	10 55.0
I	12 14.0
ISS	14 34.0
IL	16 40.0
KIP EP	22 04 06.0
I	04 26.0
EPP	05 56.0
IS	10 54.0
ISS	14 32.0
IL	16 46.0
HHM EP	22 05 36.6
IS	13 37.1

Date and Station	Phase	Phase (GCT) h m s
UKI	EP	22 05 38.6
	EP'P'	35 02.6
BUT	EP	22 05 51.1
	ES	14 20.0
	EP'P'	35 20.0
BOZ	EP	22 06 01.0
	IS	14 23.0
	EP'P'	35 06.0
	E	35 25.0
EUR	IP	22 06 06.1
	I	06 22.3
	ES	14 36.9
	EP'P'	34 57.9
	E	35 30.4
RCD	EP	22 06 33.0
TUC	EP	22 06 55.0
	I	06 57.7
ALQ	IP	22 07 01.0
WAS	IP	22 08 04.0
CSC	EP	22 08 18.0
	ES	18 44.0
JUN 28		
COL	IP	22 11 51.1
EUR	EP	22 15 15.4
	I	15 35.4
ALQ	E(P)	22 17 53.0
JUN 28		
H-22 15 28.6		
46.7N 153.4E		
h ABOUT 033KM		
EUR	IP	22 25 55.1
JUN 28		
TUC	EP	22 21 53.0
	ES	22 15.0
JUN 28		
H-22 21 57.6		
45.8N 153.3E		
h ABOUT 033KM		
COL	IP	22 29 03.0
	I	29 14.0
EUR	IP	22 32 27.1
JUN 28		
H-22 25 07.1		
46.9N 153.6E		
h ABOUT 047KM		
COL	IP	22 32 05.5
	I	40 18.0
HHM	EP	22 35 00.1
RCD	EP	22 35 57.5
TUC	IP	22 36 23.9
CSC	E	22 37 43.0
JUN 28		
H-22 49 34.6		
46.7N 153.1E		
h ABOUT 033KM		
COL	EP	22 56 35.5
EUR	EP	23 00 02.9
ALQ	EP	23 00 45.3
JUN 28		
TUC	IP	22 56 48.0
JUN 28		
H-22 57 01.5		
46.7N 153.4E		
h ABOUT 011KM		
COL	IP	23 04 04.5
HHM	EP	23 07 01.1
BUT	EP	23 07 20.2
BOZ	EP	23 07 25.0
EUR	IP	23 07 30.9
RCD	EP	23 07 59.4
ALQ	IP	23 08 26.2
	EPKKP	24 50.0
TUC	IP	23 08 21.2
CSC	EP	23 09 44.0
JUN 28		
H-23 17 00.1		
05.0S 144.4E		
h ABOUT 119KM		
COL	IP	23 29 23.8
JUN 28		
ALQ	IP	23 30 45.0
JUN 28		
H-23 53 56.6		
46.6N 153.5E		
h ABOUT 033KM		
COL	IP	24 00 57.5
HHM	EP	24 03 52.2
BUT	EP	24 04 08.2
BOZ	EP	24 04 16.0
EUR	IP	24 04 22.4
	I	04 33.9
RCD	EP	24 04 50.3
TUC	EP	24 05 12.0
ALQ	IP	24 05 17.9
	I	05 29.5
CSC	EP	24 06 35.0
JUN 29		
GUA	IP	01 39 51.0
JUN 29		
ALQ	EP	01 48 43.5
JUN 29		
H-02 21 46.5		
46.5N 153.5E		
h ABOUT 030KM		
COL	IP	02 28 48.1
HHM	E(P)	02 31 43.0
BOZ	E(P)	02 32 08.0
EUR	EP	02 32 13.1
TUC	EP	02 33 03.9
JUN 29		
H-03 22 09.3		
08.5S 160.4E		
h ABOUT 033KM		
COL	IP	03 34 29.8
	E	34 43.0
	I	35 51.0
EUR	IP	03 35 10.1
JUN 29		
H-04 07 16.1		
46.3N 153.4E		
h ABOUT 080KM		
COL	IP	04 14 13.6
	E	18 04.0
EUR	EP	04 17 37.5
	IpP	17 53.5
	EsP	18 04.5
	ISCP	21 01.4
JUN 29		
GUA	IP	04 20 02.0
JUN 29		
EUR	EP	05 30 09.9
JUN 29		
H-05 38 59.8		
46.5N 153.4E		
h ABOUT 055KM		
COL	IP	05 45 59.0
HHM	E(P)	05 48 54.0
	E	49 02.0
EUR	EP	05 49 22.9
RCD	EP	05 49 50.5
ALQ	IP	05 50 19.0
TUC	E(P)	05 50 24.9
HON	E	05 54 06.0
	EL	59 58.0
JUN 29		
WAS	IP	07 04 48.5
	E	08 08.5
JUN 29		
H-08 09 31.8		
40.3N 126.4W		
h ABOUT 033KM		
UKI	IP	08 10 15.6
	IS	10 52.1
EUR	IP	08 11 30.3
BCN	E(P)	08 12 05.6
HHM	E(P)	08 12 13.0
BUT	EP	08 12 16.3
TUC	EP	08 13 03.2
ALQ	EP	08 13 29.0
RCD	EP	08 13 35.0
JUN 29		
UKI	E(P)	08 12 53.6
EUR	I(P)	08 13 08.8
BCN	I(P)	08 13 13.9
COL	E(P)	08 15 42.0
JUN 29		
TUC	E(P)	08 32 30.0
JUN 29		
KIP	IP	08 51 10.3
	IS	51 25.0
HON	EP	08 51 11.0
	IS	51 25.0
JUN 29		
EUR	EP	09 26 15.7
JUN 29		
EUR	IP	10 15 10.4
TUC	IP	10 15 11.2
ALQ	EP	10 15 32.0
COL	IP	10 15 32.5
	E	16 40.0
JUN 29		
COL	IP	10 29 42.0
JUN 29		
HHM	EP	11 24 01.5
JUN 29		
BOZ	E(P)	12 32 03.0
	E	34 37.0
JUN 29		
H-12 43 46.3		
11.7N 142.6E		
h ABOUT 024KM		
GUA	IP	12 44 33.0

Date and Station	Phase (GCT)
	h m s
COL IP	12 55 02.5
HHM FP	12 56 45.3
FUR IP	12 56 52.5
EPP	13 01 10.0
BUT IP	12 56 53.3
BCN FP	12 57 01.2
TUC E(P)	12 57 20.0
ALQ IP	12 57 32.0
HON ES	13 01 33.0
EL	12 32.0
JUN 29	
H-13 04 23.0	
11.7N 142.6E	
h ABOUT 033KM	
GUA IP	13 05 05.0
COL IP	13 15 37.7
BCN F(P)	13 16 36.4
JUN 29	
TUC EP	13 10 21.0
JUN 29	
H-13 14 04.0	
46.7N 153.7E	
h ABOUT 024KM	
COL IP	13 21 05.3
FUR IP	13 24 30.2
F	24 40.4
BCN FP	13 24 48.6
E	24 59.6
TUC E(P)	13 25 07.8
ALQ IP	13 25 25.0
I	25 35.5
JUN 29	
H-13 19 03.1	
11.7N 142.4E	
h ABOUT 033KM	
GUA IP	13 19 48.0
BCN EP	13 32 17.6
E	32 41.6
JUN 29	
GUA IP	13 31 50.0
JUN 29	
H-14 20 56.3	
46.1N 153.2E	
h ABOUT 033KM	
COL IP	14 28 00.0
FUR FP	14 31 24.8
BCN FP	14 31 47.1

Date and Station	Phase (GCT)
	h m s
JUN 29	
ALQ E(P)	15 01 26.0
JUN 29	
H-17 38 00.5	
11.2S 163.5E	
h ABOUT 033KM	
COL IP	17 50 28.2
FUR IP	17 50 58.8
JUN 29	
H-18 42 14.5	
46.8N 153.4E	
h ABOUT 018KM	
FUR I(P)	18 52 49.4
BCN EP	18 53 01.4
TUC E(P)	18 53 26.0
ALQ IP	18 53 37.5
JUN 29	
H-20 16 38.5	
46.7N 153.4E	
h ABOUT 008KM	
COL IP	20 23 42.8
FUR IP	20 27 08.5
BCN E(P)	20 27 17.3
ALQ EP	20 28 04.3
JUN 29	
TUC IP	21 56 15.8
COL EP	21 59 33.0
JUN 29	
H-22 02 13.0	
27.8N 141.8E	
h ABOUT 021KM	
COL IP	22 11 58.5
FUR FP	22 14 30.8
JUN 29	
HON ET	22 10 32.0
KIP ET	22 10 32.0
JUN 29	
TUC EP	22 16 53.4
JUN 29	
TUC IP	22 25 57.0
JUN 29	
TUC IP	22 27 27.9
JUN 29	
H-23 00 09.3	
16.8S 172.9W	
h ABOUT 033KM	
COL E(P)	23 12 31.0

Date and Station	Phase (GCT)
	h m s
JUN 30	
H-00 42 21.5	
46.6N 153.4E	
h ABOUT 020KM	
COL IP	00 49 25.0
EUR EP	00 52 49.6
BCN E(P)	00 53 02.2
ALQ E(P)	00 53 44.5
JUN 30	
H-01 39 05.2	
11.8N 142.5E	
h ABOUT 033KM	
GUA EP	01 39 49.0
EUR EP	01 52 11.3
JUN 30	
BCN IP	01 47 07.6
IS	47 08.9
TUC E(P)	01 47 20.0
E(S)	47 24.0
JUN 30	
GCA IP	01 47 53.2
IS	48 24.2
EUR IP	01 48 01.0
IS	48 43.7
IL	48 56.6
TUC E(P)	01 48 20.0
F	48 24.0
ALQ FP	01 49 10.5
JUN 30	
H-02 04 35.9	
22.0S 170.9E	
h ABOUT 066KM	
COL FP	02 17 37.0
EUR EP	02 17 37.1
JUN 30	
H-03 59 15.6	
36.5N 070.5E	
h ABOUT 205KM	
COL EP	04 10 33.0
JUN 30	
H-04 19 12.3	
11.7N 142.5E	
h ABOUT 004KM	
GUA IP	04 20 02.1
COL IP	04 30 31.5
HHM E(P)	04 32 08.0
EUR EP	04 32 23.0

Date and Station	Phase (GCT)
	h m s
JUN 30	
H-05 18 08.7	
64.5N 146.8W	
h ABOUT 019KM	
COL IP	05 18 22.0
IS	18 30.0
HHM EP	05 23 22.4
FUR IP	05 24 25.5
I(PCP)	27 20.7
ALQ IP	05 25 30.0
TUC IP	05 25 36.0
JUN 30	
H-06 45 38.7	
02.6S 102.5E	
h ABOUT 181KM	
COL EP	06 59 08.0
EUR EP'	07 04 19.9
E	04 28.4
EPP'	05 15.1
EPP	06 28.4
ESKP	07 30.9
ESKKP	17 07.0
TUC EP'	07 04 31.0
ESKP	07 56.0
ALQ EP'	07 04 34.0
EPP	06 25.0
E	08 01.0
BCN EP'	07 04 35.4
I	07 43.8
CSC EP'	07 05 03.0
JUN 30	
GUA EP	06 53 20.2
JUN 30	
H-07 38 57.9	
47.1N 152.4E	
h ABOUT 079KM	
COL EP	07 45 55.0
EUR EP	07 49 19.8
I	49 30.9
JUN 30	
H-07 41 07.4	
33.2N 049.2E	
h ABOUT 038KM	
COL EP	07 53 21.0
JUN 30	
ALQ E(P)	08 00 33.0
JUN 30	
EUR EP	08 08 25.8
JUN 30	
EUR EP	09 17 02.8

Date and Station	Phase (GCT)
	h m s
JUN 30	
H-11 09 49.8	
7.3S 075.2W	
h ABOUT 043KM	
ALQ EP	11 18 53.0
TUC EP	11 18 56.0
EUR EP	11 19 54.1
JUN 30	
COL EP	11 12 43.7
JUN 30	
H-12 43 56.5	
8.8S 077.9W	
h ABOUT 094KM	
ALQ EP	12 52 52.0
EUR EP	12 53 52.5
JUN 30	
ALQ EP	12 48 37.5
TUC E(P)	12 48 43.0
JUN 30	
H-15 33 53.4	
7.4N 072.9W	
h ABOUT 103KM	
BHP IP C	15 35 32.0
JUN 30	
COL IP	16 09 27.0
JUN 30	
COL IP	16 19 02.8
JUN 30	
H-16 31 15.1	
46.7N 153.2E	
h ABOUT 033KM	
COL EP	16 38 16.0
JUN 30	
ALQ EP	17 12 13.9
JUN 30	
COL IP	21 09 26.2
JUN 30	
H-22 04 52.7	
46.7N 153.6E	
h ABOUT 022KM	
HON EP	22 13 18.0
ES	20 08.0
ALQ IP	22 16 14.0
CSC EP	22 17 33.0
JUN 30	
ALQ E(P)	22 36 09.0
JUN 30	
EUR E(P)	15 00 45.9
JUN 30	
BHP P	15 35 32.0

Date and Station	Phase (GCT)
	h m s
EUR EP	15 42 40.2
E	43 18.0
JUN 30	
EUR IP	16 23 39.7
I	23 51.7
JUN 30	
EUR EP	16 41 42.0
JUN 30	
TUC EP	22 04 46.0
JUN 30	
H-22 04 52.7	
46.7N 153.6E	
h ABOUT 022KM	
COL IP	22 11 54.3
I	12 09.0
KIP EP	22 13 19.0
ES	20 11.0
EL	24 08.0
HON EP	22 13 20.0
ES	20 09.0
EL	25 52.0
EUR IP	22 15 20.7
I	15 31.7
SLC E(P)	22 15 29.2
I	15 41.2
BCN EP	22 15 41.1
RCD EP	22 15 46.5
TUC EP	22 16 10.0

Date and Station	Phase (GCT)
	h m s

Date and Station	Phase (GCT)
	h m s