USCGS
.46

SEISMOLOGICAL BULLETIN

October, 1963

MSI - COAST & GEODETIC SURVEY
APR 5 1965
LIBRARY BRANCH

CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 25

U. S. DEPARTMENT OF COMMERCE

John T. Connor, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

FOR OFFICIAL DISTRIBUTION

National Oceanic and Atmospheric Administration

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This has been a co-operative project between the NOAA Central Library and the Climate Database Modernization Program, National Climate Data Center (NCDC). To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or Library.Reference@noaa.gov

HOV Services
Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 4, 2011

SEISMOLOGICAL BULLETIN

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) WWNSS
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 bases.
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 calculated with the use of an electronic computer. The epicenters quoted in this bulletin are those previously reported on the Preliminary Determination of Epicenter cards with some refinement and minor additions.

All seismograms are on file in the Coast and Geodetic Survey. 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
Rockvill, Maryland 20852

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
1	02 43 27.1	6.8 N.	73.1 W.	Colombia. h about 132 km. Mag. 4.6 (CGS).
1	03 09 40.0	14.5 S.	167.5 E.	New Hebrides Islands. h about 170 km.
1	05 00 21.8	18.5 N.	145.2 E.	Mariana Islands. h about 225 km. Mag. 4.4 (CGS).
1	05 09 48*	83.8 N.	7.3 W.	Arctic Ocean. h about 33 km. Mag. 4.2 (CGS).
1	10 30 31.6	10.2 N.	84.5 W.	Costa Rica. h about 46 km. Mag. 4.6 (CGS).
1	13 22 25*	52.6 N.	168.1 W.	Fox Islands, Aleutian Islands. h about 33 km. Mag. 3.9 (CGS).
1	17 21 54.0	36.1 N.	22.3 E.	South of Greece. h about 106 km. Mag. 4.6 (CGS).
2	03 31 27.0	5.4 S.	152.0 E.	New Britain. Felt at Pomio and Rabaul. h about 65 km. Mag. 5.6 (CGS).
2	05 47 05.5	20.8 S.	174.1 W.	Tonga Islands. h about 33 km. Mag. 5½-5¾ (BRK), 5.3 (CGS).
2	09 19 14*	23.5 S.	179.7 E.	Fiji Islands region. h about 626 km. Mag. 3.9 (CGS).
2	09 51 41.1	36.3 N.	142.4 E.	Off east coast of Honshu, Japan. h about 48 km. Mag. 4.1 (CGS).
2	15 51 48.2	1.7 S.	76.0 W.	Ecuador. h about 176 km. Mag. 3.7 (CGS).
2	16 57 47*	20.0 S.	175.1 W.	Tonga Islands. h about 33 km. Mag. 4.3 (CGS).
2	21 05 14.7	35.1 N.	23.5 E.	Near west coast of Crete. h about 72 km. Mag. 4.5 (CGS).
3	01 22 40.6	18.3 N.	105.6 W.	Off coast of Colima, Mexico. h about 33 km. Mag. 4.2 (CGS).
3	05 27 58.5	10.1 N.	62.5 W.	Near coast of Venezuela. h about 62 km.
3	05 32 18.4	22.3 N.	121.1 E.	Near east coast of Taiwan. h about 55 km. Mag. 4.4 (CGS).
3	06 38 32.2	3.4 S.	135.7 E.	West New Guinea. h about 78 km. Mag. 5.4 (CGS).
3	07 52 25*	30.5 S.	177.6 W.	Kermadec Islands. h about 33 km. Mag. 4.5 (CGS).
3	13 53 44.1	15.3 S.	173.4 W.	Tonga Islands. h about 36 km. Mag. 4.3 (CGS).
3	15 48 17.2	58.5 S.	25.1 W.	Sandwich Islands. h about 54 km.
3	17 55 54.2	58.6 S.	25.5 W.	Sandwich Islands. h about 33 km. Mag. 5.5 (CGS).
3	18 42 21.8	39.2 N.	115.2 W.	Eastern Nevada. h about 30 km.
3	23 24 34.7	32.2 N.	131.6 E.	Kyushu, Japan. Felt. h about 33 km. Mag. 6½ (PAS), 6 (PAL), 5.7 (CGS).
4	00 27 56.7	32.8 N.	131.4 E.	Kyushu, Japan. h about 21 km. Mag. 4.9 (CGS).
4	02 47 32.1	20.7 S.	174.0 W.	Tonga Islands. h about 33 km. Mag. 5.3 (CGS).
4	03 44 28.5	58.4 S.	25.0 W.	Sandwich Islands. h about 33 km. Mag. 5.2 (CGS).
4	07 14 53.2	49.0 N.	131.9 W.	Vancouver Island region. h about 33 km. Mag. 4.4 (CGS).
4	08 34 53*	16.1 N.	96.8 W.	Near coast of Oaxaca, Mexico. h about 41 km. Mag. 4.5 (CGS).
4	13 29 44.6	18.1 N.	60.1 E.	Arabian Sea. h about 33 km. Mag. 5.3 (CGS).
4	14 04 57*	52.0 N.	169.7 E.	Near Islands, Aleutian Islands. h about 33 km. Mag. 4.3 (CGS).
4	17 01 21*	34.9 N.	23.1 E.	West of Crete. h about 33 km.

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
4	17 49 11.7	30.2 N.	114.3 W.	Gulf of California. h about 14 km. Mag. 4.8 (CGS).
4	17 58 19*	30.6 N.	113.9 W.	Gulf of California. h about 14 km. Mag. 4.1 (CGS).
4	21 15 24.6	30.0 N.	114.3 W.	Gulf of California. h about 14 km. Mag. 4.3 (CGS).
4	21 19 11.5	30.1 N.	114.3 W.	Gulf of California. h about 14 km. Mag. 5.0 (CGS).
5	00 14 52.1	15.7 S.	173.3 W.	Tonga Islands. h about 33 km. Mag. 4.6 (CGS).
5	01 55 35.2	16.0 S.	173.2 W.	Tonga Islands. h about 79 km. Mag. 5.5 (CGS).
5	04 22 26*	43.9 N.	144.4 E.	Hokkaido, Japan. h about 33 km. Mag. 4.9 (CGS).
5	04 22 54.1	43.7 N.	127.1 W.	Off coast of Oregon. h about 16 km. Mag. 4.2 (CGS).
5	04 39 59*	34.7 N.	22.9 E.	West of Crete. h about 33 km. Mag. 4.5 (CGS).
5	05 15 32.4	15.9 S.	173.2 W.	Tonga Islands. h about 33 km. Mag. 4.9 (CGS).
5	06 16 26*	11.7 N.	85.1 W.	Nicaragua. h about 159 km. Mag. 3.8 (CGS).
5	06 18 37.9	15.6 S.	173.1 W.	Tonga Islands. h about 33 km. Mag. 4.5 (CGS).
5	06 41 06.7	2.7 N.	127.4 E.	Molucca Sea. h about 175 km. Mag. 4.7 (CGS).
5	07 32 19*	28.8 N.	139.2 E.	South of Honshu, Japan. h about 454 km. Mag. 4.6 (CGS).
5	11 55 56.7	47.4 N.	128.6 W.	Off coast of Washington. h about 33 km. Mag. 4.3 (CGS).
5	12 49 20.3	15.7 S.	173.6 W.	Tonga Islands. h about 33 km. Mag. 4.2 (CGS).
5	14 57 47.4	11.6 N.	42.8 E.	French Somaliland. Felt at Djibouti. h about 33 km. Mag. 5.3 (CGS).
5	16 54 57.7	16.9 S.	28.6 E.	Southern Rhodesia. h about 33 km. Mag. 4.9 (CGS).
5	17 18 25.0	11.7 N.	42.6 E.	French Somaliland. Felt at Djibouti. h about 33 km.
5	18 40 46.1	52.0 N.	131.7 W.	Queen Charlotte Islands. h about 57 km. Mag. 3.9 (CGS).
5	20 20 02.7	52.1 N.	178.1 E.	Rat Islands, Aleutian Islands. h about 140 km. Mag. 4.9 (CGS).
5	23 50 46.3	45.3 N.	150.0 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
6	08 48 12.4	21.9 N.	127.4 W.	1,200 km. southwest of Guadalupe Island. h about 33 km. Mag. 4.0 (CGS).
6	12 10 48*	9.0 S.	75.0 W.	Central Peru. h about 82 km. Mag. 4.1 (CGS).
6	15 01 42.1	22.0 S.	69.4 W.	Northern Chile. h about 33 km. Mag. 4.6 (CGS).
6	17 15 33.9	33.9 S.	70.0 W.	Central Chile. Felt. h about 101 km. Mag. 5.1 (CGS).
6	20 45 42.1	15.4 S.	69.9 W.	Southern Peru. h about 230 km. Mag. 3.7 (CGS).
6	22 08 39*	53.8 N.	164.6 W.	Fox Islands, Aleutian Islands. h about 33 km. Mag. 4.0 (CGS).
7	03 59 54.1	11.6 N.	86.9 W.	Near west coast of Nicaragua. h about 50 km. Mag. 4.5 (CGS).
7	05 35 16.7	19.8 N.	109.1 W.	Revilla Gigedo Islands region. h about 33 km. Mag. 4.7 (CGS).
7	11 16 06.0	12.1 S.	65.4 E.	About 1,200 km. northeast of Mascarene Islands. h about 33 km.
7	12 43 53.6	12.9 S.	76.8 W.	Central Peru. h about 69 km. Mag. 5.4 (CGS).
7	13 14 24.6	23.6 S.	179.9 E.	Fiji Islands region. h about 550 km. Mag. 5-5¼ (BRK), 5.7 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
7	21 30 30.0	44.8 N.	114.4 W.	Central Idaho. Felt at Cobalt. h about 33 km. Mag. 3.5 (CGS).
7	21 38 53.9	1.0 S.	147.5 E.	Admiralty Islands region. h about 68 km. Mag. 5.0 (CGS).
7	23 34 26.6	42.7 N.	110.5 E.	Outer Mongolia-Inner Mongolia border. h about 33 km. Mag. 4.9 (CGS).
8	00 17 01.1	15.1 S.	173.2 W.	Samoa Islands region. Felt throughout Samoa Islands and in Nandi, Lautoka, Fiji Islands. h about 33 km. Mag. 6 (PAS), 5½-5¾ (BRK), 5.7 (CGS).
8	01 04 35.1	3.1 S.	128.8 E.	Ceram. h about 33 km. Mag. 4.2 (CGS).
8	02 02 53.4	21.2 S.	177.9 W.	Fiji Islands region. h about 380 km. Mag. 4.4 (CGS).
8	02 51 06.0	28.6 N.	95.1 E.	Assam, India. h about 24 km. Mag. 5.4 (CGS).
8	02 59 56*	19.5 N.	65.6 W.	Off north coast of Puerto Rico. h about 33 km. Mag. 4.0 (CGS).
8	03 10 33.0	3.4 S.	150.8 E.	Bismarck Sea. h about 33 km. Mag. 5.1 (CGS).
8	05 40 28.7	39.0 N.	20.4 E.	Near Ionian coast of Greece. h about 33 km. Mag. 4.3 (CGS).
8	06 25 08*	6.6 S.	71.6 W.	Western Brazil. h about 557 km. Mag. 3.7 (CGS).
8	06 26 17.6	11.3 N.	125.9 E.	Samar region, Philippine Islands. h about 39 km. Mag. 5.4 (CGS).
8	08 17 47*	22.7 S.	113.0 W.	Easter Island region. h about 33 km. Mag. 4.2 (CGS).
8	10 28 56.5	29.0 S.	70.3 W.	Central Chile. h about 71 km. Mag. 4.2 (CGS).
8	10 53 12*	76.5 N.	86.5 E.	Kara Sea. h about 25 km. Mag. 4.7 (CGS).
8	13 12 15.8	45.5 S.	35.3 E.	Prince Edward Island region. h about 33 km.
8	20 29 40.1	2.6 N.	128.4 E.	Halmahera. h about 166 km.
8	23 01 16.0	19.4 S.	175.8 W.	Tonga Islands region. h about 182 km. Mag. 4.6 (CGS).
9	03 21 11.1	53.8 N.	170.5 W.	Bering Sea. h about 250 km. Mag. 4.3 (CGS).
9	04 36 43.6	39.4 N.	42.8 E.	Eastern Turkey. h about 35 km. Mag. 4.6 (CGS).
9	05 13 26.9	18.6 S.	173.7 W.	Tonga Islands. h about 33 km. Mag. 4.6 (CGS).
9	07 36 47.7	14.6 S.	173.2 W.	Tonga Islands. h about 33 km. Mag. 4.0 (CGS).
9	07 40 57.0	14.3 S.	172.6 W.	Tonga Islands. h about 33 km. Mag. 4.2 (CGS).
9	10 36 53.4	20.3 S.	174.4 W.	Tonga Islands. h about 33 km. Mag. 4.9 (CGS).
9	14 36 32.2	27.7 N.	138.5 E.	South of Honshu, Japan. h about 556 km. Mag. 4.2 (CGS).
9	16 24 13.9	0.2 N.	18.4 W.	1,000 km. northwest of Ascension Island. h about 33 km. Mag. 4.6 (CGS).
9	21 20 30*	44.0 N.	147.5 E.	Kurile Islands. h about 33 km. Mag. 4.3 (CGS).
9	23 40 57*	8.4 S.	126.1 E.	Timor. h about 229 km.
10	00 50 35.4	5.6 S.	145.6 E.	New Britain region. h about 102 km. Mag. 4.7 (CGS).
10	03 15 15*	47.6 N.	127.1 W.	Off coast of Washington. h about 33 km. Mag. 3.9 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
10	10 15 17.4	46.0 N.	153.7 E.	Kurile Islands region. h about 45 km. Mag. 4.4 (CGS).
10	12 04 46.6	20.2 S.	175.2 W.	Tonga Islands. h about 25 km. Mag. 4.5 (CGS).
10	14 16 31.1	12.6 S.	167.0 E.	Santa Cruz Islands. h about 223 km. Mag. 4.9 (CGS).
10	14 59 52.5	39.8 N.	78.2 W.	Southern Pennsylvania. h about 15 km. Mag. 3.6 (CGS).
10	16 49 52.0	12.4 N.	144.0 E.	Mariana Islands. h about 35 km. Mag. 4.6 (CGS).
10	18 15 13.0	52.5 N.	176.3 W.	Andreanof Islands, Aleutian Islands. h about 33 km. Mag. 4.5 (CGS).
11	00 01 13.0	24.1 S.	179.6 W.	Fiji Islands region. h about 437 km. Mag. 4.9 (CGS).
11	09 09 11*	18.5 S.	179.9 W.	Fiji Islands. h about 247 km. Mag. 5.1 (CGS).
11	09 51 16.5	18.0 N.	105.6 W.	Off coast of Jalisco, Mexico. h about 33 km. Mag. 4.6 (CGS).
11	09 59 41.9	50.0 N.	29.2 W.	North Atlantic Ocean. h about 33 km. Mag. 4.5 (CGS).
11	10 17 07.6	17.8 N.	105.9 W.	Off coast of Jalisco, Mexico. h about 33 km. Mag. 5.0 (CGS).
11	11 13 11.0	46.0 N.	151.9 E.	Kurile Islands. h about 30 km. Mag. 4.3 (CGS).
11	12 13 49*	35.0 N.	135.2 E.	Southern Honshu, Japan. h about 379 km. Mag. 3.9 (CGS).
11	14 00 00.015			37°02'14"N., 116°01'16" W. Nevada Test Site. GRUNION. Shot elevation 956.5 meters (AEC).
11	16 33 59.8	18.5 S.	177.7 W.	Fiji Islands. h about 583 Km. Mag. 4.4 (CGS).
11	21 00 00.155			37°07'07"N., 116°02'02" W. Nevada Test Site. TORNILLO. Shot elevation 1141.2 meters (AEC).
11	23 09 53.1	43.4 N.	111.1 W.	Southeastern Idaho. h about 30 km. Mag. 4.3 (CGS).
12	00 38 12*	18.6 S.	179.8 E.	Fiji Islands. h about 347 km. Mag. 4.3 (CGS).
12	02 46 48.1	71.6 N.	73.0 W.	Baffin Island. h about 33 km. Mag. 4.1 (CGS).
12	03 37 09.2	10.2 S.	161.2 E.	Solomon Islands. h about 65 km. Mag. 4.7 (CGS).
12	06 58 25.7	43.3 N.	110.9 W.	Northwestern Wyoming. h about 30 km. Mag. 3.9 (CGS).
12	10 25 37.4	52.3 N.	179.8 W.	Andreanof Islands, Aleutian Islands. h about 33 km. Mag. 4.1 (CGS).
12	10 58 27*	4.2 S.	105.2 W.	Galapagos Islands region. h about 33 km. Mag. 4.1 (CGS).
12	11 26 57.9	44.8 N.	149.0 E.	Kurile Islands. h about 40 km. Mag. 6¾-7 (PAS), 6.7 (BRK), 6¾-7 (PAL).
12	11 41 47.8	48.3 N.	149.2 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
12	11 53 05*	46.0 N.	148.8 E.	Kurile Islands. h about 33 km. Mag. 5.4 (CGS).
12	12 02 18.8	44.4 N.	149.6 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
12	12 15 20.5	17.0 S.	69.5 W.	Peru-Bolivia border. h about 170 km. Mag. 3.8 (CGS).
12	12 32 35.8	44.7 N.	149.6 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
12	13 07 07.9	44.5 N.	149.4 E.	Kurile Islands. h about 50 km. Mag. 4.8 (CGS).
12	13 24 01*	48.8 N.	149.4 E.	Kurile Islands. h about 45 km. Mag. 4.0 (CGS).
12	13 29 36.4	44.5 N.	149.3 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
12	13 54 58.3	43.5 N.	151.1 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
12	14 15 08.2	44.7 N.	149.5 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
12	14 33 36*	30.4 N.	41.8 W.	North Atlantic Ocean. h about 33 km. Mag. 4.4 (CGS).
12	16 11 55.0	44.4 N.	149.7 E.	Kurile Islands. h about 60 km. Mag. 4.4 (CGS).
12	16 28 10.4	44.8 N.	149.4 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
12	18 05 47.8	44.5 N.	149.7 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
12	18 48 35.5	44.7 N.	149.4 E.	Kurile Islands. h about 50 km. Mag. 5.0 (CGS).
12	19 10 20.5	45.1 N.	129.9 W.	Off coast of Oregon. h about 33 km. Mag. 4.2 (CGS).
12	19 46 52.9	44.3 N.	149.4 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
12	19 57 00.2	44.6 N.	149.4 E.	Kurile Islands. h about 50 km. Mag. 4.4 (CGS).
12	20 21 04.5	44.4 N.	149.2 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
12	21 17 37*	17.9 N.	145.2 E.	Mariana Islands region. h about 638 km. Mag. 4.0 (CGS).
12	21 59 01.9	43.1 N.	111.1 W.	Southeastern Idaho. h about 33 km. Mag. 3.9 (CGS).
12	22 02 01.2	44.5 N.	149.5 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
12	22 07 29.3	44.4 N.	149.2 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
12	22 34 01.6	43.1 N.	111.3 W.	Southeastern Idaho. h about 33 km. Mag. 3.9 (CGS).
12	23 02 41*	50.8 N.	149.0 E.	Sea of Okhotsk. h about 33 km. Mag. 4.4 (CGS).
12	23 40 11.1	44.3 N.	149.2 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
13	01 26 34.3	44.4 N.	149.3 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
13	01 34 54.3	44.4 N.	149.2 E.	Kurile Islands. h about 33 km. Mag. 4.3 (CGS).
13	02 12 20.0	44.0 N.	149.4 E.	Kurile Islands. h about 45 km. Mag. 3.8 (CGS).
13	04 05 50.1	44.4 N.	149.2 E.	Kurile Islands. h about 30 km. Mag. 4.4 (CGS).
13	05 10 12.5	9.8 N.	84.1 W.	Costa Rica. h about 63 km. Mag. 4.4 (CGS).
13	05 17 57.1	44.8 N.	149.5 E.	Kurile Islands. Felt on Hokkaido and Honshu, Japan. Light damage to U.S.N. ship General Hugh J. Gaffey positioned at 44°29'N., 152°01'E. Seismic Sea Waves of 13 to 16 ft. over approx. 300 ft. of coastline in the Kurile Is., 4.8 ft. at Acapulco, Mexico; 4.0 ft. at Hokkaido, Japan; 3.0 ft. at Avila, Calif.; 2.0 ft. at Midway Is.; and 1.0 ft. at Honolulu, Hawaii. h about 60 km. Mag. 8¼ (PAS), 7¾-8 (PAL), 8¼-8½ (BRK).
13	05 30 04.6	44.8 N.	151.2 E.	Kurile Islands. h about 40 km.
13	05 42 14.2	46.5 N.	151.6 E.	Kurile Islands. h about 55 km. Mag. 5.5 (CGS).
13	06 05 29.5	45.9 N.	151.9 E.	Kurile Islands. h about 55 km. Mag. 5.5 (CGS).
13	06 09 02.2	45.3 N.	151.3 E.	Kurile Islands. h about 60 km. Mag. 5.6 (CGS).
13	06 12 21.7	45.1 N.	149.7 E.	Kurile Islands. h about 40 km. Mag. 5.0 (CGS).
13	06 23 38.2	45.4 N.	150.8 E.	Kurile Islands. h about 40 km. Mag. 5.2 (CGS).
13	06 46 54.0	45.3 N.	147.5 E.	Kurile Islands. h about 55 km. Mag. 5.3 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
13	06 48 26.3	45.5 N.	151.8 E.	Kurile Islands. h about 55 km. Mag. 5.2 (CGS).
13	07 03 23.8	45.5 N.	150.6 E.	Kurile Islands. h about 50 km. Mag. 5.6 (CGS).
13	07 16 42.9	45.5 N.	151.5 E.	Kurile Islands. h about 55 km. Mag. 4.9 (CGS).
13	07 19 11.1	45.0 N.	151.5 E.	Kurile Islands. h about 40 km. Mag. 4.8 (CGS).
13	07 31 50.8	45.0 N.	151.4 E.	Kurile Islands. h about 40 km. Mag. 4.9 (CGS).
13	07 35 44.7	46.5 N.	151.8 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
13	07 48 22.8	45.7 N.	149.6 E.	Kurile Islands. h about 30 km. Mag. 4.7 (CGS).
13	08 06 36.2	45.3 N.	151.7 E.	Kurile Islands. h about 40 km. Mag. 4.8 (CGS).
13	08 11 32.0	44.5 N.	151.6 E.	Kurile Islands. h about 60 km. Mag. 4.8 (CGS).
13	08 19 16*	45.3 N.	151.7 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
13	08 34 40*	44.5 N.	150.9 E.	Kurile Islands. h about 33 km. Mag. 4.5 (CGS).
13	08 37 11.4	45.2 N.	149.9 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
13	08 39 46.7	45.6 N.	148.0 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
13	08 50 20.4	45.3 N.	151.2 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
13	09 10 15.4	44.2 N.	149.5 E.	Kurile Islands. h about 40 km. Mag. 4.4 (CGS).
13	09 11 53.9	43.8 N.	150.8 E.	Kurile Islands. h about 30 km. Mag. 5.0 (CGS).
13	09 16 25.9	44.6 N.	149.6 E.	Kurile Islands. h about 50 km. Mag. 4.9 (CGS).
13	09 22 44.6	44.9 N.	151.0 E.	Kurile Islands. h about 50 km. Mag. 5.0 (CGS).
13	09 27 24*	46.2 N.	151.8 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
13	09 44 51.6	44.1 N.	150.0 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
13	09 51 50.4	42.0 N.	149.5 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
13	09 56 43.1	45.5 N.	151.8 E.	Kurile Islands. h about 40 km. Mag. 4.7 (CGS).
13	10 01 12.7	44.3 N.	151.0 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
13	10 06 23.8	44.2 N.	150.2 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
13	10 10 28.2	44.5 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
13	10 33 57.3	44.4 N.	150.3 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
13	10 36 44.9	45.3 N.	150.4 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
13	10 47 13.7	45.4 N.	151.8 E.	Kurile Islands. h about 40 km. Mag. 4.9 (CGS).
13	11 15 40.4	44.9 N.	151.1 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
13	11 22 58.6	44.9 N.	150.7 E.	Kurile Islands. h about 55 km. Mag. 4.8 (CGS).
13	11 35 18.1	45.4 N.	151.6 E.	Kurile Islands. h about 25 km. Mag. 4.8 (CGS).
13	11 38 56.9	44.3 N.	149.3 E.	Kurile Islands. h about 25 km. Mag. 4.3 (CGS).
13	11 57 20.3	44.7 N.	151.3 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
13	12 05 48.3	45.0 N.	150.8 E.	Kurile Islands. h about 25 km. Mag. 4.6 (CGS).
13	12 20 46.9	44.8 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
13	12 29 39.2	45.9 N.	151.8 E.	Kurile Islands. h about 30 km. Mag. 5.0 (CGS).
13	12 34 18.7	44.6 N.	149.3 E.	Kurile Islands. h about 25 km. Mag. 4.5 (CGS).
13	12 40 44.2	45.6 N.	150.5 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
13	12 42 13.0	44.4 N.	149.4 E.	Kurile Islands. h about 55 km. Mag. 5.2 (CGS).
13	12 52 25.3	44.6N.	150.5 E.	Kurile Islands. h about 30 km. Mag. 4.6 (CGS).
13	12 53 56.9	44.6 N.	149.3 E.	Kurile Islands. h about 25 km. Mag. 4.6 (CGS).
13	12 58 21.6	45.0 N.	150.1 E.	Kurile Islands. h about 50 km. Mag. 5.4 (CGS).
13	13 05 04*	46.3 N.	151.3 E.	Kurile Islands. h about 33 km. Mag. 4.8 (CGS).
13	13 21 00.3	44.5 N.	149.3 E.	Kurile Islands. h about 60 km. Mag. 4.5 (CGS).
13	13 36 53.3	44.9 N.	150.4 E.	Kurile Islands. h about 50 km. Mag. 4.4 (CGS).
13	13 41 44.8	44.5 N.	149.8 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
13	13 43 25.3	44.4 N.	151.2 E.	Kurile Islands. h about 50 km. Mag. 4.8 (CGS).
13	13 53 08.1	44.3 N.	149.9 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
13	13 54 24.8	44.9 N.	151.7 E.	Kurile Islands. h about 50 km. Mag. 4.8 (CGS).
13	14 03 56.3	45.3 N.	151.0 E.	Kurile Islands. h about 25 km. Mag. 4.8 (CGS).
13	14 14 42.9	45.0 N.	150.2 E.	Kurile Islands. h about 40 km. Mag. 4.7 (CGS).
13	14 26 11.9	44.5 N.	149.5 E.	Kurile Islands. h about 50 km. Mag. 5.1 (CGS).
13	14 50 20*	17.6 N.	100.8 W.	Near coast of Guerrero, Mexico. h about 88 km. Mag. 4.0 (CGS).
13	15 27 17.9	48.5 N.	144.9 E.	Sakhalin Island. h about 45 km. Mag. 4.4 (CGS).
13	15 33 53.7	46.1 N.	151.9 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
13	15 50 09*	47.0 N.	149.5 E.	Kurile Islands. h about 45 km. Mag. 4.1 (CGS).
13	15 59 52.9	45.6 N.	150.5 E.	Kurile Islands. h about 35 km. Mag. 5¾-6 (BRK), 6.1 (CGS).
13	16 12 33.2	45.1 N.	150.8 E.	Kurile Islands. h about 30 km. Mag. 4.8 (CGS).
13	16 17 41.5	45.5 N.	149.4 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
13	16 28 58.2	44.9 N.	150.3 E.	Kurile Islands. h about 40 km. Mag. 5.2 (CGS).
13	16 32 39.0	45.1 N.	151.3 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
13	16 45 18.8	18.4 N.	103.1 W.	Near coast of Michoacan, Mexico. h about 50 km. Mag. 4.8 (CGS).
13	16 49 41.2	44.5 N.	150.4 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
13	17 17 18.5	44.4 N.	151.6 E.	Kurile Islands. h about 60 km. Mag. 4.7 (CGS).
13	17 25 55.4	44.5 N.	150.8 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
13	17 31 18.7	44.3 N.	149.2 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
13	17 55 47.1	43.2 N.	111.2 W.	Southeastern Idaho. h about 30 km. Mag. 3.7 (CGS).
13	17 56 27.0	44.5 N.	150.2 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
13	18 10 55.2	44.0 N.	150.0 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
13	18 13 44.6	44.2 N.	149.4 E.	Kurile Islands. h about 55 km. Mag. 4.7 (CGS).
13	18 14 57.5	45.2 N.	150.8 E.	Kurile Islands. h about 45 km. Mag. 5.2 (CGS).
13	18 34 48*	44.9 N.	150.2 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
13	18 36 41.6	44.9 N.	150.2 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
13	19 11 20.5	44.2 N.	149.7 E.	Kurile Islands. h about 25 km. Mag. 4.6 (CGS).
13	19 26 04.2	45.7 N.	151.5 E.	Kurile Islands. h about 30 km. Mag. 4.6 (CGS).
13	19 27 38.2	45.7 N.	151.7 E.	Kurile Islands. h about 45 km. Mag. 5.5 (CGS).
13	19 41 20.5	45.3 N.	151.4 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
13	19 52 16.9	45.0 N.	151.0 E.	Kurile Islands. h about 25 km. Mag. 4.4 (CGS).
13	19 54 55.7	44.5 N.	150.9 E.	Kurile Islands. h about 35 km. Mag. 4.2 (CGS).
13	20 14 07.7	44.4 N.	151.4 E.	Kurile Islands. h about 25 km. Mag. 4.5 (CGS).
13	20 27 38.2	45.6 N.	151.7 E.	Kurile Islands. h about 30 km. Mag. 4.8 (CGS).
13	20 35 53.3	46.1 N.	151.8 E.	Kurile Islands. h about 30 km. Mag. 4.5 (CGS).
13	21 17 45*	45.4 N.	151.5 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
13	21 35 37.3	45.3 N.	151.7 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
13	21 48 01.5	44.3 N.	149.5 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
13	21 50 02.4	46.1 N.	151.8 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
13	21 55 00.8	44.7 N.	152.1 E.	Kurile Islands. h about 50 km. Mag. 5.5 (CGS).
13	22 02 58.1	45.1 N.	150.9 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
13	22 25 37.0	44.2 N.	149.3 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
13	22 29 48.6	44.3 N.	149.5 E.	Kurile Islands. h about 40 km. Mag. 4.8 (CGS).
13	23 05 33.5	45.5 N.	151.8 E.	Kurile Islands. h about 30 km. Mag. 4.6 (CGS).
13	23 08 49*	45.2 N.	151.4 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
13	23 25 00.8	44.4 N.	153.0 E.	Kurile Islands. h about 50 km. Mag. 4.7 (CGS).
13	23 52 22.8	44.5 N.	150.1 E.	Kurile Islands. h about 50 km. Mag. 5.5 (CGS).
14	00 03 04.1	45.0 N.	150.9 E.	Kurile Islands. h about 60 km. Mag. 4.7 (CGS).
14	00 04 48*	46.1 N.	151.4 E.	Kurile Islands. h about 60 km. Mag. 4.6 (CGS).
14	00 19 17.9	44.5 N.	150.5 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
14	00 52 04.0	46.6 N.	150.6 E.	Kurile Islands. h about 35 km. Mag. 4.5 (CGS).
14	01 09 22.9	44.8 N.	151.7 E.	Kurile Islands. h about 40 km. Mag. 4.1 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
14	01 19 17.1	44.3 N.	151.2 E.	Kurile Islands. h about 55 km. Mag. 4.4 (CGS).
14	01 35 50.8	44.4 N.	149.8 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
14	01 50 47.2	44.5 N.	151.4 E.	Kurile Islands. h about 50 km. Mag. 4.4 (CGS).
14	02 01 24*	25.2 N.	95.3 E.	Eastern India. h about 33 km. Mag. 5.3 (CGS).
14	02 15 50*	47.9 N.	150.0 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
14	02 18 38.9	44.4 N.	150.3 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
14	03 21 56.1	44.9 N.	151.8 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
14	03 31 07.8	45.9 N.	151.8 E.	Kurile Islands. h about 25 km. Mag. 5.0 (CGS).
14	03 52 56.3	44.7 N.	149.8 E.	Kurile Islands. h about 50 km. Mag. 4.1 (CGS).
14	04 06 01.7	44.9 N.	150.2 E.	Kurile Islands. h about 50 km. Mag. 5.3 (CGS).
14	04 11 14.0	44.7 N.	150.6 E.	Kurile Islands. h about 45 km. Mag. 5.3 (CGS).
14	04 13 03.1	44.9 N.	150.7 E.	Kurile Islands. h about 40 km. Mag. 5.2 (CGS).
14	04 34 30.6	44.4 N.	151.5 E.	Kurile Islands. h about 25 km. Mag. 4.5 (CGS).
14	05 24 12.3	44.5 N.	151.0 E.	Kurile Islands. h about 55 km. Mag. 4.9 (CGS).
14	05 39 17.1	2.3 S.	77.6 W.	Peru-Ecuador border. h about 33 km. Mag. 4.7 (CGS).
14	05 42 55.3	44.8 N.	150.6 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
14	06 26 11.7	52.8 N.	167.1 W.	Fox Islands, Aleutian Islands. h about 80 km. Mag. 5.1 (CGS).
14	06 29 01.5	44.1 N.	149.4 E.	Kurile Islands. h about 35 km. Mag. 4.4 (CGS).
14	06 59 56.6	18.8 S.	169.3 E.	New Hebrides Islands. h about 250 km. Mag. 4.7 (CGS).
14	07 15 58.0	44.6 N.	150.3 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
14	07 53 42.7	45.3 N.	151.0 E.	Kurile Islands. h about 35 km. Mag. 4.1 (CGS).
14	07 54 33.9	44.8 N.	151.2 E.	Kurile Islands. h about 55 km. Mag. 5.1 (CGS).
14	08 31 23.0	42.2 N.	108.3 W.	Southwestern Wyoming. h about 30 km. Mag. 4.5 (CGS).
14	08 43 56.6	44.7 N.	150.7 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
14	09 22 06.6	19.0 S.	169.0 E.	New Hebrides Islands region. h about 160 km.
14	09 29 07.1	45.5 N.	151.7 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
14	10 01 27.2	45.1 N.	150.8 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
14	10 24 36.9	45.7 N.	150.2 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
14	11 13 19.4	45.0 N.	150.9 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
14	11 23 13.5	45.5 N.	151.7 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
14	11 56 31.0	45.5 N.	150.9 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
14	12 11 42.5	45.6 N.	152.4 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
14	12 44 54.1	44.7 N.	150.2 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
14	13 21 45.2	44.8 N.	151.0 E.	Kurile Islands. h about 60 km. Mag. 5.9 (CGS).
14	13 53 17.4	45.0 N.	151.1 E.	Kurile Islands. h about 30 km. Mag. 4.8 (CGS).
14	14 47 30.9	3.3 S.	126.7 E.	Ceram Sea. h about 33 km. Mag. 4.7 (CGS).
14	15 31 39*	1.6 N.	127.6 E.	Timor region. h about 231 km.
14	17 50 15.3	45.2 N.	151.3 E.	Kurile Islands. h about 60 km. Mag. 5.0 (CGS).
14	17 56 17.8	45.0 N.	151.3 E.	Kurile Islands. h about 30 km. Mag. 4.5 (CGS).
14	18 02 56*	44.8 N.	152.2 E.	Kurile Islands. h about 40 km. Mag. 4.4 (CGS).
14	18 32 07*	4.2 S.	103.4 E.	Sumatra. h about 33 km.
14	20 46 16.8	44.8 N.	152.3 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
14	21 08 00.1	45.0 N.	150.5 E.	Kurile Islands. h about 45 km. Mag. 5.1 (CGS).
14	21 19 54.7	44.3 N.	149.3 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
14	21 43 46.7	44.5 N.	149.2 E.	Kurile Islands. h about 60 km. Mag. 4.1 (CGS).
14	22 06 14*	44.0 N.	149.3 E.	Kurile Islands. h about 33 km. Mag. 4.1 (CGS).
14	22 08 27.1	17.0 S.	173.9 E.	Fiji Islands region. h about 33 km. Mag. 4.5 (CGS).
14	22 35 31.7	44.5 N.	150.6 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
14	22 59 05.4	17.0 S.	173.8 E.	Fiji Islands region. h about 33 km. Mag. 4.6 (CGS).
14	23 05 16*	39.5 N.	74.4 E.	Sinkiang Province, China. h about 69 km.
15	00 38 53.0	45.0 N.	151.8 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
15	00 42 52.4	45.1 N.	150.9 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
15	00 47 41.0	43.2 N.	150.2 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
15	04 13 22*	2.6 N.	98.9 E.	Sumatra. h about 137 km.
15	04 33 44*	48.9 N.	151.7 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
15	04 56 26.6	44.5 N.	149.6 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
15	05 10 34.2	44.3 N.	151.4 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
15	06 49 37.8	42.2 N.	152.3 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
15	07 06 59.9	20.5 S.	173.9 W.	Tonga Islands. h about 33 km. Mag. 5.1 (CGS).
15	07 26 09.4	59.0 N.	136.8 W.	Southern Alaska. Felt at Juneau. h about 33 km. Mag. 4.3 (CGS).
15	08 00 11.5	45.0 N.	151.1 E.	Kurile Islands. h about 40 km. Mag. 4.9 (CGS).
15	09 02 08.3	45.3 N.	150.2 E.	Kurile Islands. h about 40 km. Mag. 5.4 (CGS).
15	09 14 34.3	44.3 N.	149.5 E.	Kurile Islands. h about 33 km. Mag. 4.3 (CGS).
15	09 32 08.7	45.2 N.	150.2 E.	Kurile Islands. h about 40 km. Mag. 5.5 (CGS).
15	09 59 30.1	67.2 N.	18.4 W.	North of Iceland. h about 33 km. Mag. 5.2 (CGS).
15	10 47 12.6	44.6 N.	149.0 E.	Kurile Islands. h about 50 km. Mag. 5.4 (CGS).
15	11 53 45.5	45.1 N.	151.9 E.	Kurile Islands. h about 55 km. Mag. 4.8 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
15	12 03 48.7	45.1 N.	151.8 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
15	12 28 58*	46.6 N.	77.6 W.	Southwestern Quebec, Canada. Felt. h about 14 km.
15	13 56 19.1	17.1 S.	173.9 E.	Fiji Islands. h about 33 km. Mag. 4.5 (CGS).
15	13 59 50*	46.3 N.	77.8 W.	Southwestern Quebec, Canada. Felt. h about 14 km. Mag. 3.8 (CGS).
15	15 15 10.6	44.3 N.	114.8 W.	Central Idaho. h about 33 km. Mag. 3.9 (CGS).
15	16 16 05.7	45.6 N.	150.2 E.	Kurile Islands. h about 33 km. Mag. 4.6 (CGS).
15	17 15 55.7	44.0 N.	149.3 E.	Kurile Islands. h about 50 km. Mag. 4.4 (CGS).
15	17 35 00.8	44.8 N.	150.4 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
15	17 54 04.3	45.2 N.	151.3 E.	Kurile Islands. h about 29 km. Mag. 4.6 (CGS).
15	18 23 57.8	45.3 N.	151.0 E.	Kurile Islands. h about 35 km. Mag. 4.9 (CGS).
15	19 55 10.4	28.2 S.	67.3 W.	Catamarca Province, Argentina. h about 56 km. Mag. 4.3 (CGS).
15	20 41 30.2	45.4 N.	151.1 E.	Kurile Islands. h about 50 km. Mag. 4.9 (CGS).
15	21 44 58.0	3.0 S.	129.9 E.	Ceram. h about 27 km. Mag. 5.2 (CGS).
15	22 41 44.7	46.8 N.	152.4 E.	Kurile Islands. h about 35 km. Mag. 4.6 (CGS).
15	23 09 00.5	45.9 N.	149.9 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
16	00 45 59.5	45.1 N.	153.7 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
16	01 25 06.7	46.1 N.	151.8 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
16	05 15 36.1	44.8 N.	150.4 E.	Kurile Islands. h about 33 km. Mag. 5.2 (CGS).
16	07 12 57.9	22.2 S.	179.5 W.	Fiji Islands region. h about 539 km. Mag. 4.3 (CGS).
16	07 50 22.4	10.8 S.	163.7 E.	Solomon Islands region. h about 68 km. Mag. 4.5 (CGS).
16	08 33 42.0	45.6 N.	151.9 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
16	09 29 56.7	45.2 N.	153.8 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
16	10 30 55.2	45.2 N.	150.4 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
16	11 46 17.4	46.4 N.	150.8 E.	Kurile Islands. h about 40 km. Mag. 4.0 (CGS).
16	12 47 44.2	1.8 S.	127.9 E.	Halmahera region. h about 33 km. Mag. 5.2 (CGS).
16	13 55 26.2	15.1 S.	173.6 W.	Tonga Islands region. h about 33 km. Mag. 4.9 (CGS).
16	14 20 45.3	45.8 N.	151.8 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
16	14 59 43.8	46.6 N.	150.4 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
16	15 31 01.8	42.5 N.	70.8 W.	Near coast of Massachusetts. Slight damage at Somerville and Winthrop, also felt in New Hampshire, Rhode Island and Maine. h about 20 km. Mag. 4.2 (PAL), 4.2 (CGS).
16	15 36 32.1	44.3 N.	114.8 W.	Central Idaho. h about 30 km. Mag. 4.2 (CGS).
16	15 43 00.8	38.6 N.	73.4 E.	Tadzhik S.S.R. h about 33 km. Mag. 5.9 (CGS).
16	17 00 00.143			37°11'53"N., 116°13'46"W. Nevada Test Site. CLEARWATER. Shot elevation 1711.1 meters (AEC).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
16	19 02 25.0	28.8 N.	58.0 E.	Southern Iran. h about 32 km. Mag. 4.8 (CGS).
16	20 31 15*	38.6 N.	73.1 E.	Tadzhik S.S.R. h about 70 km.
16	20 39 30.5	8.8 N.	137.9 E.	Palau Islands region. h about 28 km. Mag. 5.0 (CGS).
16	21 30 52.7	44.4 N.	150.9 E.	Kurile Islands. h about 80 km. Mag. 5.0 (CGS).
16	22 21 15.8	17.7 N.	62.0 W.	Leeward Islands region. h about 67 km. Mag. 4.9 (CGS).
17	00 35 20*	45.1 N.	149.6 E.	Kurile Islands. h about 33 km. Mag. 4.9 (CGS).
17	01 22 07.7	44.4 N.	114.7 W.	Central Idaho. h about 30 km. Mag. 4.7 (CGS).
17	02 11 35.3	21.5 S.	63.4 W.	Southern Bolivia. h about 33 km. Mag. 4.5 (CGS).
17	03 05 50.2	11.6 N.	140.6 E.	Mariana Islands region. h about 70 km. Mag. 5.1 (CGS).
17	03 45 08.6	45.1 N.	151.4 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
17	04 19 50.0	45.2 N.	151.7 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
17	08 10 55.2	44.3 N.	149.1 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
17	08 31 18.6	45.8 N.	151.7 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
17	09 33 24.0	38.8 N.	73.4 E.	Tadzhik S.S.R. h about 40 km. Mag. 4.4 (CGS).
17	10 16 48.9	43.8 N.	151.0 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
17	10 41 26.6	45.0 N.	150.8 E.	Kurile Islands. h about 33 km. Mag. 4.3 (CGS).
17	11 35 30.7	17.3 S.	168.0 E.	New Hebrides Islands. h about 33 km. Mag. 4.3 (CGS).
17	11 50 50*	45.0 N.	151.4 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
17	12 18 23.0	49.2 N.	149.8 E.	Sea of Okhotsk. h about 45 km. Mag. 4.2 (CGS).
17	12 58 33.6	45.1 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
17	14 06 32.2	44.2 N.	149.2 E.	Kurile Islands. h about 40 km. Mag. 4.6 (CGS).
17	14 13 59.8	9.8 N.	126.5 E.	Near east coast of Mindanao, Philippine Islands. h about 33 km. Mag. 5.4 (CGS).
17	14 22 14.6	46.2 N.	152.0 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
17	15 03 12.7	44.1 N.	149.2 E.	Kurile Islands. h about 55 km. Mag. 4.6 (CGS).
17	19 03 31.6	6.6 N.	126.3 E.	Off east coast of Mindanao, Philippine Islands. h about 33 km. Mag. 5.4 (CGS).
17	22 35 40.1	45.3 N.	151.6 E.	Kurile Islands. h about 30 km. Mag. 4.4 (CGS).
17	23 24 34.4	44.6 N.	149.0 E.	Kurile Islands. h about 45 km. Mag. 5.4 (CGS).
17	23 54 56.9	44.5 N.	149.0 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
18	01 59 38.8	44.5 N.	149.1 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
18	02 28 40.6	44.5 N.	153.3 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
18	02 47 04*	18.0 S.	178.7 W.	Fiji Islands. h about 650 km. Mag. 3.7 (CGS).
18	04 01 21.7	44.5 N.	150.4 E.	Kurile Islands. h about 60 km. Mag. 4.8 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
18	04 36 00.9	44.0 N.	150.9 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
18	05 16 10.4	42.8 N.	141.4 E.	Near north coast of Hokkaido, Japan. h about 40 km. Mag. 4.6 (CGS).
18	05 26 15.7	45.3 N.	151.6 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
18	05 40 53*	45.4 N.	151.5 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
18	06 20 21.6	44.7 N.	149.9 E.	Kurile Islands. h about 60 km. Mag. 4.3 (CGS).
18	07 05 14.9	45.8 N.	150.8 E.	Kurile Islands. h about 30 km. Mag. 4.5 (CGS).
18	07 55 14.0	44.8 N.	150.0 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
18	08 05 22.1	62.6 N.	146.6 W.	Central Alaska. h about 51 km. Mag. 4.2 (CGS).
18	08 15 17.0	44.5 N.	151.1 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
18	08 41 38.0	10.5 S.	161.6 E.	Solomon Islands. h about 33 km. Mag. 4.9 (CGS).
18	08 53 33.9	44.8 N.	150.2 E.	Kurile Islands. h about 60 km. Mag. 5.0 (CGS).
18	10 04 31*	48.2 N.	151.4 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
18	10 18 18.3	44.9 N.	152.8 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
18	16 00 33.8	34.0 S.	71.4 W.	Central Chile. Felt. h about 60 km. Mag. 4.0 (CGS).
18	17 55 00.2	45.6 N.	150.6 E.	Kurile Islands. h about 40 km. Mag. 5.2 (CGS).
18	18 45 57.2	43.7 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
18	20 05 14.4	47.6 N.	154.3 E.	Kurile Islands. h about 40 km. Mag. 5.1 (CGS).
18	20 19 12.4	31.1 N.	41.1 W.	North Atlantic Ocean. h about 33 km. Mag. 4.5 (CGS).
18	21 22 52.7	45.2 N.	151.1 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
18	21 36 55.0	5.3 S.	103.5 E.	Sumatra. h about 33 km. Mag. 5.1 (CGS).
18	22 52 50.6	46.1 N.	152.5 E.	Kurile Islands. h about 40 km. Mag. 4.4 (CGS).
18	23 43 35.9	44.7 N.	149.2 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
19	01 04 54.1	15.9 N.	93.9 W.	Near coast of Chiapas, Mexico. h about 34 km. Mag. 4.3 (CGS).
19	02 14 17.4	18.3 S.	71.2 W.	Near coast of southern Peru. h about 78 km. Mag. 4.5 (CGS).
19	02 18 37.9	46.8 N.	153.7 E.	Kurile Islands. h about 45 km. Mag. 5.2 (CGS).
19	03 02 43*	46.7 N.	154.0 E.	Kurile Islands. h about 33 km. Mag. 3.9 (CGS).
19	03 15 02.5	46.5 N.	153.9 E.	Kurile Islands. h about 40 km. Mag. 5.1 (CGS).
19	03 34 19.6	46.6 N.	153.8 E.	Kurile Islands. h about 33 km. Mag. 5½ (PAL), 5.4 (CGS).
19	03 47 07.7	46.8 N.	153.8 E.	Kurile Islands. h about 25 km. Mag. 5.2 (CGS).
19	04 07 35.4	46.8 N.	153.7 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
19	04 10 44*	47.3 N.	153.6 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
19	04 26 17.4	44.4 N.	149.3 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
19	04 59 31.1	21.2 S.	71.0 W.	Off coast of northern Chile. h about 33 km. Mag. 4.6 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
19	05 41 18.1	44.6 N.	149.1 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
19	06 39 40*	51.8 N.	171.8 W.	Fox Islands, Aleutian Islands. h about 60 km. Mag. 4.2 (CGS).
19	06 46 06.7	41.2 N.	71.3 E.	Kirghiz S.S.R. h about 33 km. Mag. 5.0 (CGS).
19	07 00 24.8	58.7 N.	137.4 W.	Southeastern Alaska. h about 34 km. Mag. 3.9 (CGS).
19	07 09 25.6	18.4 S.	168.9 E.	New Hebrides Islands. h about 222 km. Mag. 4.6 (CGS).
19	07 56 20.2	44.1 N.	151.1 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
19	09 02 20.1	9.9 N.	126.1 E.	Near east coast of Leyte, Philippine Islands. h about 86 km.
19	09 38 08.0	45.4 N.	149.2 E.	Kurile Islands. h about 30 km. Mag. 4.6 (CGS).
19	11 19 31.8	62.4 N.	149.6 W.	Central Alaska. h about 96 km. Mag. 4.3 (CGS).
19	11 52 55.2	10.1 S.	119.3 E.	Sumba. h about 33 km.
19	14 51 24.0	34.0 S.	71.4 W.	Central Chile. Felt. h about 60 km. Mag. 4.2 (CGS).
19	15 20 05.2	23.7 S.	70.0 W.	Northern Chile. Felt at Antofagasta. h about 67 km. Mag. 4.4 (CGS).
19	15 42 31.8	43.4 N.	152.0 E.	Kurile Islands. h about 40 km. Mag. 4.4 (CGS).
19	16 15 21.4	44.4 N.	150.9 E.	Kurile Islands. h about 120 km. Mag. 5.1 (CGS).
19	16 20 53.8	45.0 N.	149.4 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
19	18 00 46*	35.9 S.	80.5 E.	Indian Ocean. h about 33 km.
19	18 01 58*	46.5 N.	152.7 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
19	19 10 15.4	45.2 N.	151.2 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
19	20 53 37*	42.6 N.	152.0 E.	Kurile Islands. h about 40 km. Mag. 3.9 (CGS).
19	21 22 25*	15.2 N.	89.2 W.	Guatemala-Honduras border. h about 33 km. Mag. 3.9 (CGS).
19	23 11 40.9	45.2 N.	151.1 E.	Kurile Islands. h about 33 km. Mag. 4.6 (CGS).
19	23 44 31.6	45.1 N.	151.4 E.	Kurile Islands. h about 40 km. Mag. 4.4 (CGS).
20	00 22 53.3	37.7 S.	73.2 W.	Near coast of Chile. Felt at Concepcion and Santiago. h about 35 km. Mag. 5.0 (CGS).
20	00 42 41.9	44.3 N.	149.7 E.	Kurile Islands. h about 40 km. Mag. 4.0 (CGS).
20	00 53 07.2	44.7 N.	150.7 E.	Kurile Islands. Seismic Sea Waves of 50 ft. at Kurile Is.; 1.3 ft. at Crescent City, California; 1.2 ft. at Midway Is.; and 1.0 ft. at Kwajalein. h about 25 km. Mag. 6¾-7 (PAS), 7¼-7½ (PAL).
20	01 07 35.0	47.4 N.	151.1 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
20	01 14 05.2	44.6 N.	150.1 E.	Kurile Islands. h about 45 km. Mag. 4.8 (CGS).
20	01 22 35.1	45.9 N.	153.6 E.	Kurile Islands. h about 40 km. Mag. 5.0 (CGS).
20	01 40 39.5	43.9 N.	149.8 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
20	01 54 12.5	23.4 S.	68.4 W.	Northern Chile. h about 118 km. Mag. 4.5 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
20	02 09 29.4	44.7 N.	150.0 E.	Kurile Islands. h about 45 km. Mag. 4.9 (CGS).
20	02 12 43.4	45.0 N.	150.8 E.	Kurile Islands. h about 50 km. Mag. 4.8 (CGS).
20	02 20 36.7	44.8 N.	150.0 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
20	02 52 00*	46.5 N.	148.1 E.	Kurile Islands. h about 40 km. Mag. 3.8 (CGS).
20	02 58 54.2	44.4 N.	149.6 E.	Kurile Islands. h about 60 km. Mag. 4.5 (CGS).
20	03 00 10.9	20.8 S.	178.6 W.	Fiji Islands region. h about 600 km. Mag. 4.8 (CGS).
20	03 13 23.0	44.1 N.	149.8 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
20	03 16 51*	46.7 N.	152.0 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
20	03 41 41.9	44.3 N.	149.4 E.	Kurile Islands. h about 45 km. Mag. 3.9 (CGS).
20	03 55 28.9	44.8 N.	149.9 E.	Kurile Islands. h about 55 km. Mag. 4.2 (CGS).
20	03 59 15.4	45.3 N.	149.7 E.	Kurile Islands. h about 55 km. Mag. 4.6 (CGS).
20	04 31 37.1	44.4 N.	149.9 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
20	04 40 09.1	44.9 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.6 (CGS).
20	04 46 57.9	44.6 N.	149.8 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
20	04 58 55.0	44.5 N.	149.7 E.	Kurile Islands. h about 50 km. Mag. 4.4 (CGS).
20	05 20 18.0	44.9 N.	151.4 E.	Kurile Islands. h about 50 km. Mag. 4.8 (CGS).
20	05 40 50.6	47.2 N.	153.7 E.	Kurile Islands. h about 55 km. Mag. 4.5 (CGS).
20	05 52 29.2	44.6 N.	149.7 E.	Kurile Islands. h about 40 km. Mag. 4.0 (CGS).
20	06 02 14.7	44.3 N.	149.2 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
20	06 10 25.0	43.9 N.	150.7 E.	Kurile Islands. h about 50 km. Mag. 5.2 (CGS).
20	06 38 51.0	44.4 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.8 (CGS).
20	06 56 43.5	44.4 N.	150.0 E.	Kurile Islands. h about 40 km. Mag. 4.1 (CGS).
20	07 05 56.3	42.0 N.	148.5 E.	Kurile Islands. h about 55 km. Mag. 4.2 (CGS).
20	07 20 20.5	44.7 N.	149.9 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
20	08 26 12.3	44.3 N.	149.4 E.	Kurile Islands. h about 33 km. Mag. 4.9 (CGS).
20	09 10 43.9	44.4 N.	150.0 E.	Kurile Islands. h about 40 km. Mag. 5.5 (CGS).
20	11 00 16*	16.1 S.	66.3 E.	Indian Ocean. h about 33 km.
20	11 08 57.9	44.4 N.	149.7 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
20	11 15 32.3	44.9 N.	151.2 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
20	11 35 46.6	44.2 N.	150.6 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
20	11 52 20.7	44.7 N.	150.2 E.	Kurile Islands. h about 45 km. Mag. 5.1 (CGS).
20	12 04 35.2	54.3 N.	157.6 E.	Kamchatka. h about 45 km. Mag. 4.6 (CGS).
20	12 09 31.1	45.0 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
20	12 59 58.6	24.1 N.	5.1 E.	Southern Algeria. h about 0 km. Mag. 5.6 (CGS).
20	13 21 14.1	45.1 N.	150.5 E.	Kurile Islands. h about 45 km. Mag. 5.2 (CGS).
20	13 29 26.6	31.1 N.	115.6 W.	Baja California. h about 14 km.
20	14 02 36.8	44.6 N.	150.0 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
20	15 11 23.5	44.1 N.	151.1 E.	Kurile Islands. h about 50 km. Mag. 4.7 (CGS).
20	15 29 06.5	43.7 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
20	15 44 34.2	45.7 N.	149.7 E.	Kurile Islands. h about 45 km. Mag. 4.1 (CGS).
20	15 53 48.1	47.4 N.	149.0 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
20	16 00 15.1	44.3 N.	149.7 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
20	17 41 27.3	44.2 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.8 (CGS).
20	17 58 58.7	44.2 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
20	19 47 14.3	44.2 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
20	20 16 08*	24.0 S.	177.6 W.	Fiji Islands. h about 605 km. Mag. 4.2 (CGS).
20	21 08 21.7	45.0 N.	149.8 E.	Kurile Islands. h about 40 km. Mag. 4.5 (CGS).
20	21 49 36.0	21.9 N.	94.7 E.	Burma. h about 115 km.
20	22 40 09.8	45.7 N.	149.1 E.	Kurile Islands. h about 40 km. Mag. 4.1 (CGS).
20	22 47 53.3	44.2 N.	149.7 E.	Kurile Islands. h about 40 km. Mag. 4.1 (CGS).
20	22 52 08.8	45.9 N.	151.7 E.	Kurile Islands. h about 40 km. Mag. 4.7 (CGS).
21	01 39 57*	43.9 N.	146.3 E.	Kurile Islands. h about 33 km. Mag. 4.6 (CGS).
21	02 16 38.1	44.3 N.	149.9 E.	Kurile Islands. h about 65 km. Mag. 4.1 (CGS).
21	02 22 12*	44.2 N.	151.6 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
21	02 31 39.3	22.9 S.	172.1 E.	Loyalty Islands. h about 54 km. Mag. 4.6 (CGS).
21	02 47 49*	45.1 N.	151.3 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
21	03 03 33.6	44.0 N.	149.7 E.	Kurile Islands. h about 45 km. Mag. 4.1 (CGS).
21	03 14 54*	44.0 N.	149.9 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
21	09 18 46.7	23.6 S.	176.1 W.	Tonga Islands. h about 33 km. Mag. 4.9 (CGS).
21	09 40 14.6	44.7 N.	150.3 E.	Kurile Islands. h about 55 km. Mag. 4.7 (CGS).
21	10 07 52.9	45.0 N.	150.3 E.	Kurile Islands. h about 55 km. Mag. 4.4 (CGS).
21	10 09 32*	46.3 N.	148.2 E.	Kurile Islands. h about 55 km. Mag. 4.8 (CGS).
21	13 09 05.4	45.2 N.	151.6 E.	Kurile Islands. h about 45 km. Mag. 4.8 (CGS).
21	13 09 34.6	3.3 S.	150.2 E.	Bismarck Sea. h about 43 km.
21	13 27 10.6	26.0 S.	179.9 E.	Fiji Islands region. h about 397 km. Mag. 4.5 (CGS).
21	13 40 39.3	44.6 N.	149.8 E.	Kurile Islands. h about 33 km. Mag. 3.9 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
21	14 49 14.9	38.4 N.	73.3 E.	Tadzhik S.S.R. h about 84 km. Mag. 4.8 (CGS).
21	15 35 35.4	44.6 N.	150.5 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
21	15 38 24.3	45.5 N.	149.7 E.	Kurile Islands. h about 55 km. Mag. 5.4 (CGS).
21	17 20 46.0	44.1 N.	150.3 E.	Kurile Islands. h about 65 km. Mag. 5.0 (CGS).
21	20 39 39.3	44.2 N.	151.0 E.	Kurile Islands. h about 50 km. Mag. 4.7 (CGS).
21	21 15 48.8	43.3 N.	152.5 E.	Kurile Islands. h about 20 km. Mag. 4.4 (CGS).
21	23 18 41.3	44.0 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.9 (CGS).
21	23 29 21.3	44.1 N.	150.2 E.	Kurile Islands. h about 55 km. Mag. 5.2 (CGS).
21	23 33 16.1	44.2 N.	149.0 E.	Kurile Islands. h about 55 km. Mag. 4.7 (CGS).
21	23 59 25*	44.9 N.	150.8 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
22	01 01 14.8	13.7 N.	121.6 E.	Luzon, Philippine Islands. h about 15 km. Mag. 5.0 (CGS).
22	02 29 06.9	44.3 N.	151.2 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
22	03 17 15.2	45.0 N.	150.2 E.	Kurile Islands. h about 45 km. Mag. 5.2 (CGS).
22	03 25 38.8	43.9 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.9 (CGS).
22	04 18 14.5	16.0 S.	70.5 W.	Southern Peru. h about 240 km. Mag. 3.9 (CGS).
22	04 29 11.7	51.0 N.	179.4 E.	Rat Islands, Aleutian Islands. h about 55 km. Mag. 4.7 (CGS).
22	04 49 17.0	44.5 N.	149.1 E.	Kurile Islands. h about 33 km. Mag. 4.5 (CGS).
22	06 37 44*	44.8 N.	152.1 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
22	07 02 54.0	3.0 S.	130.0 E.	Ceram. h about 54 km. Mag. 4.5 (CGS).
22	10 18 14.5	44.2 N.	150.3 E.	Kurile Islands. h about 50 km. Mag. 4.9 (CGS).
22	10 26 28.5	43.6 N.	148.1 E.	Kurile Islands. h about 50 km. Mag. 4.3 (CGS).
22	10 45 32*	44.1 N.	150.5 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
22	12 05 30.8	45.3 N.	151.7 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
22	12 19 17.5	45.1 N.	151.8 E.	Kurile Islands. h about 20 km. Mag. 4.3 (CGS).
22	12 49 32.6	45.6 N.	151.7 E.	Kurile Islands. h about 50 km. Mag. 4.1 (CGS).
22	13 27 05.2	44.5 N.	149.8 E.	Kurile Islands. h about 33 km. Mag. 4.3 (CGS).
22	14 07 32*	16.2 S.	173.9 W.	Tonga Islands. h about 33 km. Mag. 4.1 (CGS).
22	15 35 26.1	11.6 S.	166.3 E.	Santa Cruz Islands. h about 80 km. Mag. 4.5 (CGS).
22	16 00 43.8	43.5 N.	150.4 E.	Kurile Islands. h about 105 km. Mag. 4.0 (CGS).
22	17 02 43*	33.4 N.	25.8 E.	Mediterranean Sea, south of Crete. h about 33 km. Mag. 4.6 (CGS).
22	19 14 14*	45.3 N.	149.4 E.	Kurile Islands. h about 33 km. Mag. 4.5 (CGS).
22	19 26 14*	44.3 N.	152.3 E.	Kurile Islands. h about 33 km. Mag. 4.6 (CGS).
22	23 03 39.5	44.0 N.	152.4 E.	Kurile Islands. h about 20 km. Mag. 4.7 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
23	00 06 09.0	45.7 N.	151.6 E.	Kurile Islands. h about 20 km. Mag. 5.2 (CGS).
23	01 01 31*	44.2 N.	152.0 E.	Kurile Islands. h about 33 km. Mag. 4.6 (CGS).
23	02 38 18.6	45.6 N.	150.1 E.	Kurile Islands. h about 25 km. Mag. 4.7 (CGS).
23	03 46 32*	23.5 S.	111.9 W.	Easter Island region. h about 33 km. Mag. 4.9 (CGS).
23	04 24 06.2	31.4 S.	68.7 W.	San Juan Province, Argentina. h about 110 km. Mag. 4.7 (CGS).
23	05 32 33.9	45.0 N.	151.2 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
23	05 35 38*	44.3 N.	149.9 E.	Kurile Islands. h about 45 km. Mag. 4.3 (CGS).
23	06 33 25*	24.0 S.	176.0 W.	Tonga Islands region. h about 119 km. Mag. 4.4 (CGS).
23	07 56 12.3	12.0 S.	166.5 E.	Santa Cruz Islands. h about 107 km. Mag. 5.0 (CGS).
23	08 15 15.4	44.3 N.	149.4 E.	Kurile Islands. h about 50 km. Mag. 4.5 (CGS).
23	09 47 08.1	41.2 N.	144.2 E.	East of Honshu, Japan. h about 50 km. Mag. 5.4 (CGS).
23	10 16 38.9	6.9 S.	148.4 E.	Near northeast coast of New Guinea. h about 29 km.
23	10 50 22.2	45.8 N.	152.7 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
23	11 18 18.0	44.4 N.	149.5 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
23	12 10 33.2	46.6 N.	151.9 E.	Kurile Islands. h about 35 km. Mag. 4.1 (CGS).
23	14 45 32.5	12.2 N.	125.7 E.	Off east coast of Samar, Philippine Islands. h about 99 km. Mag. 5.5 (CGS).
23	18 34 38.0	45.4 N.	152.3 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
23	20 04 07*	16.6 N.	62.2 W.	Leeward Islands. h about 33 km. Mag. 4.3 (CGS).
23	20 14 29*	25.9 S.	178.8 W.	Kermadec Islands region. h about 343 km. Mag. 4.4 (CGS).
23	20 24 05.5	19.4 N.	155.5 W.	Hawaii Island, Hawaii. Felt. h about 5 km Mag. 5.0 (CGS).
23	21 18 14*	44.3 N.	150.7 E.	Kurile Islands. h about 40 km. Mag. 4.3 (CGS).
23	22 11 13.1	44.0 N.	151.3 E.	Kurile Islands. h about 20 km. Mag. 4.7 (CGS).
24	01 06 25.9	44.5 N.	150.3 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
24	06 44 18.5	4.3 N.	78.4 W.	Near west coast of Colombia. h about 38 km. Mag. 5.0 (CGS).
24	06 57 24.3	19.2 N.	121.3 E.	Babuyan Islands, Philippine Islands. h about 72 km. Mag. 4.8 (CGS).
24	07 24 03.1	4.4 N.	78.5 W.	Off west coast of Colombia. h about 33 km. Mag. 4.4 (CGS).
24	07 26 23.9	4.9 S.	102.9 E.	Off south coast of Sumatra. h about 50 km. Mag. 6.0 (PAL), 6.1 (CGS).
24	08 03 56*	45.1 N.	150.0 E.	Kurile Islands. h about 55 km. Mag. 4.2 (CGS).
24	09 52 37.4	44.4 N.	114.8 W.	Central Idaho. h about 33 km. Mag. 3.8 (CGS).
24	11 03 52*	45.7 N.	151.1 E.	Kurile Islands. h about 45 km. Mag. 4.0 (CGS).
24	13 01 36*	58.1 N.	144.7 W.	Gulf of Alaska. h about 33 km. Mag. 3.9 (CGS).
24	13 45 09.9	44.0 N.	150.8 E.	Kurile Islands. h about 40 km. Mag. 5.0 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
24	15 24 06.0	44.8 N.	149.9 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
24	19 03 31*	38.4 N.	70.3 E.	Tadzhik S.S.R. h about 183 km.
24	19 19 10.2	28.3 N.	128.5 E.	Ryukyu Islands. h about 33 km. Mag. 5.1 (CGS).
24	20 18 12.7	44.4 N.	149.7 E.	Kurile Islands. h about 45 km. Mag. 5.0 (CGS).
24	21 53 25.0	45.3 N.	151.5 E.	Kurile Islands. h about 40 km. Mag. 4.2 (CGS).
25	01 08 35.5	44.7 N.	149.5 E.	Kurile Islands. h about 50 km. Mag. 4.0 (CGS).
25	01 30 57*	62.3 S.	156.9 E.	Balleny Islands. h about 33 km.
25	03 58 59*	51.6 N.	156.4 E.	Kamchatka. h about 110 km. Mag. 4.2 (CGS).
25	05 48 51.1	45.0 N.	150.7 E.	Kurile Islands. h about 50 km. Mag. 4.7 (CGS).
25	06 02 06.6	52.0 N.	174.8 E.	Near Islands, Aleutian Islands. h about 70 km. Mag. 4.6 (CGS)
25	06 27 58*	44.3 N.	150.4 E.	Kurile Islands. h about 50 km. Mag. 3.9 (CGS).
25	07 29 02.0	45.7 N.	151.3 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
25	08 08 12.1	43.7 N.	150.8 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
25	10 17 57.1	45.3 N.	150.2 E.	Kurile Islands. h about 40 km. Mag. 5.0 (CGS).
25	11 12 57.3	44.0 N.	151.1 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
25	11 57 55.3	45.1 N.	149.3 E.	Kurile Islands. h about 70 km. Mag. 4.1 (CGS).
25	12 33 05.8	44.5 N.	150.2 E.	Kurile Islands. h about 45 km. Mag. 4.2 (CGS).
25	15 05 22.2	35.3 N.	116.9 W.	San Bernardino County, California. h about 14 km. Mag 4.5 (CGS).
25	15 07 10*	45.2 N.	150.6 E.	Kurile Islands. h about 33 km. Mag. 4.0 (CGS).
25	15 20 40.0	3.7 S.	104.0 W.	West of Galapagos Islands. h about 33 km. Mag. 4.5 (CGS).
25	15 24 51.3	11.7 S.	166.9 E.	Santa Cruz Islands. h about 149 km. Mag. 4.5 (CGS).
25	16 25 24*	2.2 S.	138.3 E.	Western New Guinea. h about 33 km. Mag. 5.4 (CGS).
25	16 41 46.0	44.3 N.	149.7 E.	Kurile Islands. h about 20 km. Mag. 4.3 (CGS).
25	19 01 56.9	45.5 N.	150.6 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
25	19 58 58.3	12.3 N.	144.5 E.	Mariana Islands. h about 29 km. Mag. 5.4 (CGS).
25	22 49 42*	36.9 N.	95.2 E.	Tsinghai Province, China. h about 33 km. Mag. 5.1 (CGS).
25	23 21 42.7	13.4 N.	144.1 E.	Mariana Islands. h about 57 km. Mag. 4.7 (CGS).
26	03 55 39.7	44.5 N.	150.1 E.	Kurile Islands. h about 55 km. Mag. 5.1 (CGS).
26	05 01 31.5	43.7 N.	150.5 E.	Kurile Islands. h about 40 km. Mag. 5.1 (CGS).
26	05 59 44.2	44.5 N.	149.8 E.	Kurile Islands. h about 60 km. Mag. 5.1 (CGS).
26	06 25 19*	44.6 N.	154.2 E.	Kurile Islands region. h about 60 km. Mag. 4.3 (CGS).
26	06 27 53.8	44.8 N.	149.6 E.	Kurile Islands. h about 55 km. Mag. 4.5 (CGS).
26	06 55 51*	44.7 N.	149.6 E.	Kurile Islands. h about 60 km. Mag. 4.0 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October 26	h m s 07 24 28.7	° 51.2 N.	° 177.5 W.	Andreanof Islands, Aleutian Islands. h about 33 km. Mag. 4.6 (CGS).
26	08 34 59.5	20.7 S.	169.0 E.	Loyalty Islands. h about 33 km. Mag. 4.2 (CGS).
26	10 32 37*	44.4 N.	149.5 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
26	11 21 47.6	44.7 N.	149.7 E.	Kurile Islands. h about 55 km. Mag. 5 (PAL), 5.4 (CGS).
26	11 31 53.0	44.6 N.	149.8 E.	Kurile Islands. h about 55 km. Mag. 5.1 (CGS).
26	12 33 50.1	15.8 S.	174.0 W.	Tonga Islands. h about 115 km. Mag. 5.5 (CGS).
26	12 56 46.8	2.7 S.	77.8 W.	Ecuador. h about 33 km. Mag. 4.2 (CGS).
26	14 44 49.2	44.6 N.	149.7 E.	Kurile Islands. h about 60 km. Mag. 4.2 (CGS).
26	17 00 00.100			39°12'01"N., 118°22'49"W. Nevada Test Site. SHOAL. Shot elevation 1232.3 meters (AEC).
26	18 55 39.1	7.0 S.	129.7 E.	Banda Sea. h about 125 km. Mag. 5.0 (CGS).
26	19 05 58.1	44.1 N.	148.9 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
26	20 20 14.5	43.1 N.	111.2 W.	Southeastern Idaho. h about 37 km. Mag. 4.3 (CGS).
26	2[illegible] 41 29.8	5.2 S.	152.0 E.	New Britain. h about 73 km. Mag. 5.9 (CGS).
26	23 58 57.8	43.8 N.	151.2 E.	Kurile Islands. h about 33 km. Mag. 5.0 (CGS).
27	01 30 32*	29.5 S.	101.2 W.	Easter Island region. h about 33 km. Mag. 4.6 (CGS).
27	04 22 38*	44.4 N.	150.2 E.	Kurile Islands. h about 60 km. Mag. 3.9 (CGS).
27	05 20 18.4	20.6 S.	178.6 W.	Fiji Islands region. h about 541 km. Mag. 4.4 (CGS).
27	05 49 09*	44.2 N.	149.3 E.	Kurile Islands. h about 20 km. Mag. 4.1 (CGS).
27	07 45 26.3	14.7 S.	71.7 W.	Southern Peru. h about 121 km. Mag. 4.2 (CGS).
27	08 45 43.8	17.9 S.	178.5 W.	Fiji Islands region. h about 586 km. Mag. 5.0 (CGS).
27	10 38 49*	22.8 S.	175.2 W.	Tonga Islands. h about 35 km. Mag. 4.8 (CGS).
27	12 02 57.6	5.6 N.	79.4 W.	Off west coast of Colombia. h about 32 km. Mag. 4.0 (CGS).
27	13 02 43.8	43.5 N.	89.0 E.	Sinkiang Province, China. h about 56 km. Mag. 4.5 (CGS).
27	14 14 18.1	45.4 N.	150.0 E.	Kurile Islands. h about 60 km. Mag. 4.3 (CGS).
27	14 50 20.1	33.1 N.	115.7 W.	Imperial County, California. Felt at Niland. h about 15 km. Mag. 4¼ (PAS), 4.3 (CGS).
27	14 56 55.0	33.0 N.	115.7 W.	Imperial County, California. Felt at Niland. h about 14 km.
27	15 24 10.6	33.0 N.	115.6 W.	Imperial County, California. h about 14 km. Mag. 4.2 (CGS).
27	15 26 19*	33.9 S.	15.3 W.	Tristan da Cunha region. h about 33 km.
27	15 30 43.4	33.0 N.	115.7 W.	Imperial County, California. h about 14 km.
27	15 58 49.9	44.2 N.	114.8 W.	Central Idaho. h about 30 km. Mag. 3.6 (CGS).
27	18 07 44.6	33.1 N.	115.7 W.	Imperial County, California. h about 14 km. Mag. 4.5 (CGS).
27	18 12 49.7	33.1 N.	115.7 W.	Imperial County, California. Felt at Niland. h about 14 km. Mag. 4¼ (PAS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
27	18 22 05.1	33.0 N.	115.6 W.	Imperial County, California. Felt at Niland. h about 14 km. Mag. 4.5 (CGS).
27	18 24 42.9	24.3 S.	176.1 W.	Tonga Islands region. h about 33 km. Mag. 5.3 (CGS).
27	18 49 36.5	33.0 N.	115.7 W.	Imperial County, California. h about 14 km. Mag. 4.6 (CGS).
27	19 36 26.6	16.8 S.	173.5 W.	Tonga Islands. h about 33 km. Mag. 4.5 (CGS).
27	19 38 15.2	33.0 N.	115.7 W.	Imperial County, California. h about 14 km.
27	19 53 50*	44.5 N.	149.4 E.	Kurile Islands. h about 65 km. Mag. 4.0 (CGS).
27	20 05 38.1	44.5 N.	150.1 E.	Kurile Islands. h about 50 km. Mag. 5-5¼ (PAL), 5.2 (CGS).
28	00 30 39.3	33.0 N.	115.6 W.	Imperial County, California. h about 14 km.
28	00 37 21*	1.9 N.	124.8 E.	Northern Celebes. h about 232 km. Mag. 5.0 (CGS).
28	02 25 08*	14.8 N.	90.8 W.	Guatemala. h about 33 km. Mag. 3.9 (CGS).
28	02 50 30.1	13.6 S.	76.9 W.	Central Peru. h about 38 km. Mag. 4.1 (CGS).
28	04 58 42.9	45.4 N.	151.3 E.	Kurile Islands. h about 45 km. Mag. 4.4 (CGS).
28	06 15 33.7	46.5 N.	154.2 E.	Kurile Islands. h about 33 km. Mag. 4.1 (CGS).
28	07 55 12.3	24.3 S.	176.0 W.	Tonga Islands region. h about 33 km. Mag. 5¼ (BRK), 5.4 (CGS)
28	08 14 15.5	33.0 N.	115.6 W.	Imperial County, California. h about 14 km. Mag. 4.4 (CGS).
28	10 03 48.2	45.4 N.	150.0 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
28	10 18 10.3	44.6 N.	149.6 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
28	11 23 39*	57.1 S.	147.1 E.	South of Australia. h about 33 km.
28	12 03 19.8	52.8 N.	159.8 E.	Off east coast of Kamchatka. h about 33 km. Mag. 5-5¼ (BRK), 5-5¼ (PAL), 5.7 (CGS).
28	14 13 31.6	45.3 N.	151.3 E.	Kurile Islands. h about 45 km. Mag. 4.1 (CGS).
28	14 36 20.0	45.7 N.	150.3 E.	Kurile Islands. h about 55 km. Mag. 4.5 (CGS).
28	15 55 36.0	33.1 N.	115.7 W.	Imperial County, California. h about 14 km. Mag. 4.0 (CGS).
28	18 05 09.7	45.0 N.	151.7 E.	Kurile Islands. h about 60 km. Mag. 4.3 (CGS).
28	18 09 38*	43.9 N.	150.9 E.	Kurile Islands. h about 33 km. Mag. 4.2 (CGS).
28	19 15 12.5	42.8 S.	73.7 W.	Southern Chile. h about 30 km. Mag. 4.9 (CGS).
28	19 59 15.0	24.5 S.	179.9 E.	Fiji Islands region. h about 532 km. Mag. 5.0 (CGS).
28	20 36 56.0	44.8 N.	149.6 E.	Kurile Islands. h about 45 km. Mag. 4.7 (CGS).
28	21 48 24.1	49.9 N.	154.7 E.	Kurile Islands. h about 105 km. Mag. 4.8 (CGS).
29	02 23 53.6	44.6 N.	151.2 E.	Kurile Islands. h about 45 km. Mag. 4.6 (CGS).
29	02 57 33*	45.6 N.	151.2 E.	Kurile Islands. h about 25 km. Mag. 4.4 (CGS).
29	05 39 33.0	43.1 N.	111.6 W.	Southeastern Idaho. h about 33 km. Mag. 4.0 (CGS).
29	06 04 53*	27.8 S.	66.9 W.	Catamarca Province, Argentina. h about 106 km. Mag. 3.7 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
29	07 01 41.4	40.4 N.	124.9 W.	Near coast of Humboldt County, California. h about 33 km. Mag. 4.7 (CGS).
29	07 09 00*	45.3 N.	150.7 E.	Kurile Islands. h about 55 km. Mag. 4.5 (CGS).
29	07 42 11.8	43.2 N.	111.3 W.	Southeastern Idaho. h about 30 km.
29	10 56 10.1	18.0 S.	178.3 W.	Fiji Islands region. h about 494 km. Mag. 3.6 (CGS).
29	14 04 22.1	44.5 N.	127.7 W.	Off coast of Oregon. h about 33 km. Mag. 3.8 (CGS).
29	15 49 10.3	24.8 S.	68.6 W.	Northern Chile. h about 67 km. Mag. 5.0 (CGS).
29	16 55 49.4	26.5 S.	177.5 W.	Kermadec Islands region. h about 65 km. Mag. 4.2 (CGS).
29	20 22 15.7	26.2 S.	177.8 W.	Kermadec Islands region. h about 49 km. Mag. 4.8 (CGS).
29	22 22 37.7	24.4 S.	176.1 W.	Tonga Islands region. h about 33 km. Mag. 4.9 (CGS).
30	00 00 58*	44.2 N.	150.6 E.	Kurile Islands. h about 50 km. Mag. 4.2 (CGS).
30	00 35 40.4	44.7 N.	150.0 E.	Kurile Islands. h about 55 km. Mag. 4.3 (CGS).
30	01 05 37*	43.4 N.	151.2 E.	Kurile Islands. h about 45 km. Mag. 4.1 (CGS).
30	01 17 31.1	4.8 S.	77.9 W.	Northern Peru. h about 20 km. Mag. 5.3 (CGS).
30	02 59 24*	43.6 N.	151.4 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
30	05 31 49*	26.6 S.	178.0 W.	Kermadec Islands region. h about 240 km. Mag. 4.0 (CGS).
30	05 36 53.4	10.4 S.	166.2 E.	Santa Cruz Islands. h about 33 km. Mag. 4.6 (CGS).
30	09 28 29.9	44.9 N.	149.1 E.	Kurile Islands. h about 45 km. Mag. 4.1 (CGS).
30	10 51 45.9	44.6 N.	150.2 E.	Kurile Islands. h about 55 km. Mag. 4.4 (CGS).
30	15 21 07.2	44.8 N.	150.2 E.	Kurile Islands. h about 45 km. Mag. 4.5 (CGS).
30	18 29 34.8	72.2 N.	1.4 W.	Arctic Ocean. h about 33 km. Mag. 4.2 (CGS).
30	22 42 27*	43.5 N.	150.5 E.	Kurile Islands. h about 33 km. Mag. 4.4 (CGS).
31	03 17 42.0	21.8 S.	175.0 W.	Tonga Islands. h about 33 km. Mag. 6¼ (PAS), 6½ (BRK), 6¼-6½ (PAL), 5.2 (CGS).
31	04 25 38.0	23.9 S.	179.8 W.	Fiji Islands region. h about 464 km. Mag. 4.5 (CGS).
31	08 08 52.0	43.0 N.	111.3 W.	Southeastern Idaho. h about 33 km. Mag. 3.0 (CGS).
31	08 51 42*	17.9 S.	178.8 W.	Fiji Islands region. h about 637 km. Mag. 4.3 (CGS).
31	09 39 47.3	51.8 N.	173.8 W.	Andreanof Islands, Aleutian Islands. h about 70 km. Mag. 3.9 (CGS).
31	09 54 25*	19.3 S.	177.4 W.	Fiji Islands region. h about 555 km. Mag. 3.9 (CGS).
31	09 57 01.0	27.4 N.	55.6 E.	Southern Iran. h about 35 km. Mag. 5.3 (CGS).
31	10 07 25.5	46.6 S.	96.3 E.	Indian Ocean. h about 33 km. Mag. 5.2 (CGS).
31	10 47 25.3	10.5 S.	162.0 E.	Solomon Islands region. h about 38 km. Mag. 4.8 (CGS).
31	13 38 20*	22.0 S.	169.9 E.	Loyalty Islands. h about 33 km. Mag 3.6 (CGS).
31	17 19 39*	51.6 N.	178.6 W.	Andreanof Islands, Aleutian Islands. h about 33 km. Mag. 4.1 (CGS).

Date 1963	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
October	h m s	°	°	
31	17 48 45.6	44.2 N.	150.0 E.	Kurile Islands. h about 70 km. Mag. 4.4 (CGS).
31	19 28 47*	18.2 N.	103.0 W.	Michoacan, Mexico. h about 33 km. Mag. 3.5 (CGS).
31	20 10 54.2	37.2 N.	70.0 E.	Hindu Kush region. h about 105 km. Mag. 4.5 (CGS).
31	23 19 15.3	4.9 S.	77.7 W.	Northern Peru. h about 60 km. Mag. 4.5 (CGS).
31	23 54 08*	43.7 N.	151.2 E.	Kurile Islands. h about 33 km. Mag. 4.5 (CGS).

Date and Station	Phase (GCT)
	h m s
OCT 01	
GUA IP	01 14 23.5
IS	14 32.5
OCT 01	
TUC EP	02 13 28.3
OCT 01	
H-02 43 27.1	
6.8N 073.1W	
h ABOUT 132KM	
BHP IP	02 45 05.0
IS	46 18.5
SJP EP	02 46 31.5
ALQ EP	02 51 03.5
TUC EP	02 51 18.1
GCA IP	02 51 42.1
FGU IP	02 51 46.8
OCT 01	
GUA EP	03 21 20.6
I	21 30.0
OCT 01	
GUA IP	03 35 58.0
OCT 01	
GUA E(P)	04 25 00.0
OCT 01	
H-05 00 21.8	
18.5N 145.2E	
h ABOUT 225KM	
COL IP	05 10 29.5
OCT 01	
H-05 09 47.8	
83.8N 007.3W	
h ABOUT 033KM	
TUC EP	05 19 49.4
OCT 01	
GUA EP	05 56 18.3
OCT 01	
GCA E(P)	06 11 10.1
E	11 26.1
OCT 01	
GCA EP	06 14 37.2
I	14 43.2
IS	15 12.2
OCT 01	
GUA IP	07 37 20.0
IS	37 29.0
OCT 01	
RCD E(P)	09 59 30.0
OCT 01	
H-10 30 31.6	
10.2N 084.5W	
h ABOUT 046KM	

Date and Station	Phase (GCT)
	h m s
BHP IP	10 31 45.0
IS	32 25.0
SJP E(P)	10 35 07.4
E	35 16.5
ALQ IP	10 36 53.3
TUC IP	10 37 02.1
GCA IP	10 37 33.1
FGU EP	10 37 43.8
BCN EP	10 37 43.9
EPCP	40 00.4
RCD E(P)	10 38 03.0
COL EP	10 41 43.0
OCT 01	
GUA EP	12 17 05.0
OCT 01	
GUA EP	12 49 49.5
OCT 01	
H-13 22 25.3	
52.6N 168.1W	
h ABOUT 033KM	
COL IP	13 26 10.2
TUC IP	13 30 42.7
I	30 54.3
OCT 01	
FGU EP	14 03 41.0
IS	04 16.8
OCT 01	
ALQ E(P)	16 26 11.0
E	26 51.0
OCT 01	
TUC EP	17 37 38.4
OCT 01	
GUA EP	17 48 35.5
OCT 01	
GUA EP	18 10 31.5
OCT 01	
GUA E(P)	18 39 50.0
OCT 01	
GUA EP	19 09 59.0
E(S)	10 08.0
OCT 01	
GUA E(P)	20 46 19.1
OCT 01	
EUR E(P)	21 11 57.8
EL	12 32.0
OCT 01	
SLC E(P)	22 15 27.2
EUR E(P)	22 16 14.3
EL	16 57.0

Date and Station	Phase (GCT)
	h m s
OCT 01	
BCN EP	22 42 28.2
ES	42 55.2
OCT 01	
TUC EP	22 54 38.4
OCT 01	
BCN IP	23 06 25.2
IS	06 37.0
OCT 01	
SLC E(P)	23 13 29.9
OCT 02	
ALQ EP	00 41 52.0
OCT 02	
GUA IP	01 14 23.5
ES	14 32.5
OCT 02	
GUA EP	03 21 20.6
I	21 30.0
OCT 02	
H-03 31 27.0	
05.4S 152.0E	
h ABOUT 065KM	
GUA IP	03 35 58.0
COL IP	03 43 44.1
IS	53 30.1
TUC EP	03 45 03.7
EPP	49 09.4
ALQ E(P)	03 45 24.0
EPP	49 34.0
OCT 02	
GUA E(P)	04 25 00.0
OCT 02	
BUT E(P)	05 45 22.6
OCT 02	
H-05 47 05.5	
20.8S 174.1W	
h ABOUT 033KM	
KIP IP	05 55 18.2
IS	06 02 00.0
EL	05 40.0
HON EP	05 55 19.0
ES	06 02 01.0
GUA EP	05 56 18.3
BCN EP	05 59 14.2
TUC EP	05 59 16.0
EUR IP	05 59 18.3
GCA EP	05 59 27.9
SLC EP	05 59 38.1
ALQ IP	05 59 39.0
I	06 00 06.0

Date and Station	Phase (GCT)
	h m s
COL IP	05 59 52.2
OCT 02	
EUR EP	05 56 25.4
E(S)	57 14.0
EL	57 34.0
OCT 02	
EUR IP	06 31 04.4
OCT 02	
GUA IP	07 37 20.0
IS	37 29.0
OCT 02	
EUR EP	08 07 24.4
IS	07 45.2
OCT 02	
H-09 19 13.9	
23.5S 179.7E	
h ABOUT 626KM	
TUC EP	09 30 54.6
OCT 02	
H-09 51 41.1	
36.3N 142.4E	
h ABOUT 048KM	
COL EP	10 00 27.0
EUR EP	10 03 23.4
ALQ E(P)	10 04 11.0
OCT 02	
ALQ E(P)	10 07 47.0
OCT 02	
GUA EP	12 17 05.0
OCT 02	
GUA EP	12 49 49.5
OCT 02	
SJP E(P)	15 02 03.0
OCT 02	
ALQ E(P)	15 43 26.0
OCT 02	
ALQ EP	16 02 32.0
I	02 43.0
OCT 02	
H-16 57 47.5	
20.0S 175.1W	
h ABOUT 033KM	
TUC EP	17 09 58.0
EUR EP	17 10 00.7
ALQ EP	17 10 19.0
COL EP	17 10 32.0
OCT 02	
GUA EP	17 48 35.5
OCT 02	
GUA EP	18 10 31.5

Date and Station	Phase (GCT)
	h m s
OCT 02	
GUA E(P)	18 39 50.0
OCT 02	
GUA EP	19 09 59.0
E(S)	10 08.0
OCT 02	
GUA E(P)	20 46 19.1
OCT 02	
EUR EP	20 46 47.8
OCT 02	
H-21 05 14.7	
35.1N 023.5E	
h ABOUT 072KM	
COL IP	21 17 20.0
OCT 02	
BCN E(P)	22 15 42.6
OCT 02	
BCN EP	22 47 17.1
EL	47 46.0
OCT 02	
FGU IP	23 03 14.5
OCT 02	
SLC EP	23 06 06.4
ES	06 30.4
OCT 02	
EUR EP	23 13 26.0
IL	14 15.0
OCT 02	
FGU EP	23 56 37.5
OCT 03	
BCN IP	00 52 09.0
IS	52 20.5
OCT 03	
EUR IP	01 14 05.7
IS	14 30.4
OCT 03	
FGU EP	01 17 43.4
OCT 03	
H-01 22 40.6	
18.3N 105.6W	
h ABOUT 033KM	
TUC IP	01 26 10.1
ALQ IP	01 26 36.0
GCA E(P)	01 27 08.0
BCN EP	01 27 08.0
EUR EP	01 27 43.6
COL IP	01 32 04.4
OCT 03	
ALQ EP	01 25 09.0
OCT 03	
TUC E(P)	05 11 04.4

Date and Station	Phase (GCT)
	h m s
OCT 03	
H-05 27 58.5	
10.1N 062.5W	
h ABOUT 062KM	
SJP EP	05 30 07.0
ALQ E(P)	05 36 27.0
TUC E(P)	05 37 00.1
EUR E(P)	05 37 31.3
EPP	37 43.3
COL E(P)	05 40 10.0
OCT 03	
SJP EP	05 31 38.5
OCT 03	
H-05 32 18.4	
22.3N 121.1E	
h ABOUT 055KM	
COL EP	05 43 29.0
OCT 03	
FGU EP	07 29 26.5
OCT 03	
H-07 52 24.6	
30.5S 177.6W	
h ABOUT 033KM	
TUC EP	08 05 15.8
EUR EP	08 05 22.8
OCT 03	
COL EP	08 14 44.0
OCT 03	
EUR IP	08 43 42.2
ES	44 00.2
OCT 03	
TUC EP	10 29 26.6
OCT 03	
FGU E(P)	10 43 50.8
I	43 59.8
OCT 03	
BOZ IP	10 53 02.9
BUT EP	10 53 15.5
IS	53 36.5
OCT 03	
COL EP	13 28 43.0
OCT 03	
COL IP	13 52 29.4
OCT 03	
H-13 53 44.1	
15.3S 173.4W	
h ABOUT 036KM	
TUC IP	14 05 32.3
I	05 55.7
COL EP	14 06 02.0

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	14 06 10.0
OCT 03	
COL EP	14 00 01.0
OCT 03	
ALQ E(P)	14 24 13.0
OCT 03	
H-15 48 17.2	
58.5S 025.1W	
h ABOUT 054KM	
TUC EP'	16 06 54.7
ALQ EP'	16 06 57.0
BCN EP'	16 07 04.2
EUR EP'	16 07 10.4
COL EP'	16 08 09.6
OCT 03	
HON EPP	16 09 40.0
ESKSP	19 33.0
EPPS	21 43.0
ESS	28 04.0
EL	48 36.0
KIP ESS	16 28 18.0
EL	48 38.0
OCT 03	
ALQ EP	16 17 34.0
COL IP	16 21 14.5
OCT 03	
BHP IP	17 05 12.0
IS	05 46.0
OCT 03	
ALQ EP	17 51 12.0
OCT 03	
H-17 55 54.2	
58.6S 025.5W	
h ABOUT 033KM	
BCN EP'	18 14 41.9
COL EP'	18 15 47.0
OCT 03	
ALQ IP	18 28 38.0
E	29 18.0
GCA E(P)	18 28 59.9
E(S)	29 54.6
OCT 03	
H-18 42 21.8	
39.2N 115.2W	
h ABOUT 030KM	
EUR IP	18 42 34.2
IS	42 42.9
BCN I(P)	18 43 19.4
EL	44 03.9

Date and Station	Phase (GCT)
	h m s
GCA E(P)	18 43 24.9
EL	44 18.4
OCT 03	
EUR EP	21 27 45.4
EL	28 12.0
OCT 03	
TUC IP	22 37 45.9
E	41 29.4
OCT 03	
BCN EP	22 45 16.3
EL	45 48.3
OCT 03	
BCN IP	23 03 11.8
IS	03 24.2
OCT 03	
SLC E(P)	23 08 04.4
ALQ IP	23 08 37.7
OCT 03	
H-23 24 34.7	
32.2N 131.6E	
h ABOUT 033KM	
GUA EP	23 29 28.0
S	33 19.0
COL EP	23 34 21.0
I(S)	42 22.0
KIP E(P)	23 35 07.0
ES	43 28.0
HON E(P)	23 35 09.0
ES	43 28.0
SIT E(P)	23 35 15.0
BUT EP	23 36 57.3
IS	47 16.3
EUR IP	23 37 09.3
EPP	40 36.0
ES	47 41.5
SLC EP	23 37 16.9
RCD E(P)	23 37 29.0
GCA E(P)	23 37 29.7
ALQ IP	23 37 50.6
EPP	41 39.0
ES	48 21.0
ESS	55 24.0
EL	59 02.0
CSC EP'	23 43 19.0
OCT 03	
SLC IP	23 49 42.4
IS	50 06.9
EUR EP	23 50 27.3
GCA E(P)	23 50 41.2
ALQ E(P)	23 51 47.0

Date and Station	Phase (GCT)
	h m s
OCT 04	
H-00 27 56.7	
32.8N 131.4E	
h ABOUT 021KM	
EUR IP	00 40 31.5
I	40 41.0
BCN EP	00 40 44.9
TUC IP	00 41 08.4
ALQ E(P)	00 41 13.0
OCT 04	
H-02 47 32.1	
20.7S 174.0W	
h ABOUT 033KM	
KIP EP	02 55 44.0
ES	03 02 28.0
BCN EP	02 59 37.7
TUC EP	02 59 40.7
EUR EP	02 59 43.5
GCA EP	02 59 53.6
SLC EP	03 00 03.0
ALQ IP	03 00 04.5
ES	10 29.0
EL	22 25.0
BUT EP	03 00 14.3
COL EP	03 00 18.0
HON ES	03 02 27.0
EL	05 42.0
OCT 04	
COL EP	02 53 57.0
OCT 04	
H-03 44 28.5	
58.4S 025.0W	
h ABOUT 033KM	
TUC IP'	04 03 08.5
COL EP'	04 04 23.0
OCT 04	
COL EP	04 22 31.0
OCT 04	
EUR E(P)	04 42 52.5
EL	43 59.5
OCT 04	
H-07 14 53.2	
49.0N 131.9W	
h ABOUT 033KM	
UKI EP	07 17 40.5
EUR IP	07 18 22.8
COL EP	07 19 03.0
BCN EP	07 19 06.4

Date and Station	Phase (GCT)
	h m s
TUC I(P)	07 20 05.7
ALQ I(P)	07 20 08.0
ES	24 08.0
OCT 04	
RCD EP	07 19 56.0
OCT 04	
GUA E(P)	08 00 21.0
OCT 04	
COL EP	08 34 31.0
OCT 04	
H-08 34 53.4	
16.1N 096.8W	
h ABOUT 041KM	
TUC IP	08 39 30.6
EL	45 39.4
ALQ IP	08 39 31.5
EPP	39 43.0
E(S)	43 20.0
EL	45 03.0
GCA IP	08 40 14.3
BCN IP	08 40 20.2
EL	48 19.0
EUR IP	08 40 49.0
COL IP	08 44 52.9
OCT 04	
COL EP	09 15 01.0
OCT 04	
GUA EP	11 20 52.5
ES	21 01.5
OCT 04	
GUA IP	11 34 05.5
IS	34 13.7
COL EP	11 39 57.0
OCT 04	
TUC E(P)	11 54 10.3
OCT 04	
GUA E(P)	13 30 27.0
I	30 35.7
OCT 04	
H-14 04 57.3	
52.0N 169.7E	
h ABOUT 033KM	
COL IP	14 10 20.2
EUR EP	14 13 57.9
OCT 04	
TUC E(P)	14 32 22.8
E	33 17.3
COL EP	14 35 46.0
OCT 04	
TUC E(P)	14 52 50.7

Date and Station	Phase (GCT)
	h m s
OCT 04	
COL EP	15 26 28.0
OCT 04	
COL EP	15 55 01.0
OCT 04	
ALQ EP	16 45 42.0
TUC EP	16 46 00.7
OCT 04	
TUC EP	17 34 29.0
OCT 04	
H-17 49 11.7	
30.2N 114.3W	
h ABOUT 014KM	
TUC EP	17 50 08.5
BCN EP	17 50 40.0
E(S)	52 00.0
GCA IP	17 50 59.0
ALQ IP	17 51 12.5
ES	52 32.0
EUR IP	17 51 31.3
OCT 04	
H-17 58 19.4	
30.6N 113.9W	
h ABOUT 014KM	
TUC EP	17 59 09.5
BCN E(P)	17 59 49.0
E	18 00 22.6
ALQ E(P)	18 00 13.0
OCT 04	
BCN E(P)	21 01 34.0
OCT 04	
H-21 15 24.6	
30.0N 114.3W	
h ABOUT 014KM	
TUC EP	21 16 23.0
BCN E(P)	21 16 55.4
IS	18 10.5
GCA EP	21 17 13.2
ALQ EP	21 17 26.5
OCT 04	
H-21 19 11.5	
30.1N 114.3W	
h ABOUT 014KM	
TUC EP	21 20 10.5
BCN E(P)	21 20 41.6
ALQ I(P)	21 21 13.0
OCT 04	
TUC E(P)	22 01 19.0

Date and Station	Phase (GCT)
	h m s
OCT 04	
GUA EP	23 17 11.2
ES	17 22.0
OCT 04	
TUC EP	23 24 28.6
OCT 04	
HHM IP	23 36 23.0
OCT 05	
H-00 14 52.1	
15.7S 173.3W	
h ABOUT 033KM	
TUC IP	00 26 41.4
EUR EP	00 26 41.7
ALQ IP	00 27 06.4
COL IP	00 27 14.4
BOZ EP	00 27 15.0
OCT 05	
TUC EP	00 52 06.7
OCT 05	
ALQ IP	01 52 43.5
E	53 06.0
OCT 05	
H-01 55 35.2	
16.0S 173.2W	
h ABOUT 079KM	
KIP IP	02 03 05.1
UKI EP	02 06 54.0
BCN IP	02 07 13.7
TUC IP	02 07 19.8
EUR IP	02 07 19.8
GCA IP	02 07 29.7
SLC EP	02 07 38.0
BUT IP	02 07 50.3
COL P	02 07 50.8
HHM EP	02 07 51.5
BOZ IP	02 07 51.9
HON E	02 09 17.0
EL	13 44.0
OCT 05	
COL EP	02 40 52.0
OCT 05	
COL EP	03 15 30.0
OCT 05	
H-04 22 25.8	
43.9N 144.4E	
h ABOUT 033KM	
COL IP	04 30 16.8

Date and Station	Phase (GCT)
	h m s
BOZ EP	04 33 25.7
EUR EP	04 33 35.2
TUC EP	04 34 21.7
ALQ EP	04 34 26.0
OCT 05	
H-04 22 54.1	
43.7N 127.1W	
h ABOUT 016KM	
HHM EP	04 25 21.8
BOZ EP	04 25 36.0
TUC E(P)	04 26 45.2
COL E(P)	04 28 10.5
I	28 21.0
OCT 05	
H-05 15 32.4	
15.9S 173.2W	
h ABOUT 033KM	
BCN E(P)	05 27 17.5
I	27 29.8
TUC EP	05 27 22.9
EUR EP	05 27 23.7
GCA EP	05 27 33.0
ALQ IP	05 27 47.0
HHM EP	05 27 54.8
BOZ EP	05 27 55.0
COL IP	05 27 55.4
OCT 05	
TUC EP	06 03 18.3
OCT 05	
H-06 18 37.9	
15.6S 173.1W	
h ABOUT 033KM	
TUC EP	06 30 25.6
ALQ E(P)	06 30 50.0
COL IP	06 30 58.0
OCT 05	
GUA E(P)	06 39 18.0
OCT 05	
BUT EP	06 40 35.8
HHM EP	06 41 09.8
ES	41 46.7
OCT 05	
TUC IP	07 01 53.6
OCT 05	
H-07 32 18.9	
28.8N 139.2E	
h ABOUT 454KM	

Date and Station	Phase (GCT)
	h m s
GUA EP	07 35 41.1
COL EP	07 41 22.0
HHM IP	07 43 36.2
EUR IP	07 43 54.7
IPCP	44 02.8
BCN EP	07 44 07.7
RCD EP	07 44 19.5
TUC IP	07 44 30.4
ALQ IP	07 44 37.0
OCT 05	
EUR EP	07 32 21.9
EL	31 00.9
OCT 05	
BCN EP	07 34 14.5
EUR EP	07 34 28.5
ES	35 00.5
OCT 05	
COL EP	07 43 28.0
BOZ EP	07 43 28.0
I	43 51.0
OCT 05	
KIP EP	08 22 03.0
OCT 05	
GUA IP	08 57 20.0
IS	57 36.5
OCT 05	
TUC E(P)	09 10 39.6
OCT 05	
BOZ EP	09 21 35.0
ES	21 53.0
OCT 05	
COL IP	10 38 59.2
OCT 05	
COL IP	10 40 42.6
ALQ E(P)	10 42 53.0
I	43 24.0
OCT 05	
COL IP	11 10 34.7
OCT 05	
H-11 55 56.7	
47.4N 128.6W	
h ABOUT 033KM	
BOZ EP	11 58 44.0
ES	12 00 35.0
EUR EP	11 58 52.2
RCD E(P)	12 00 04.0
COL EP	12 00 33.0
ALQ EP	12 00 37.0

Date and Station	Phase (GCT)
	h m s
TUC E(P)	12 00 37.5
OCT 05	
RCD E(P)	12 01 52.0
OCT 05	
COL EP	12 38 45.0
OCT 05	
H-12 49 20.3	
15.7S 173.6W	
h ABOUT 033KM	
ALQ E(P)	13 01 35.0
COL IP	13 01 43.0
OCT 05	
COL EP	13 29 28.0
OCT 05	
BOZ EP	14 32 32.0
ES	33 09.0
OCT 05	
H-14 57 47.4	
11.6N 042.8E	
h ABOUT 033KM	
COL E(P')	15 15 56.0
ALQ IP'	15 16 42.0
TUC EP'	15 16 43.2
EUR EP'	15 16 53.8
BCN EP'	15 16 59.5
HON E	15 34 26.0
E	44 34.0
E	45 12.0
E	54 44.0
EL	16 00 34.0
OCT 05	
EUR EP'	15 14 56.6
OCT 05	
COL EP	15 27 44.0
OCT 05	
COL EP	15 44 20.0
OCT 05	
BOZ EP	16 12 04.5
OCT 05	
H-16 54 57.7	
16.9S 028.6E	
h ABOUT 033KM	
ALQ EP'	17 14 19.0
TUC EP'	17 14 20.6
EUR EP'	17 14 24.4
EPP	16 23.0
OCT 05	
COL EP	17 54 29.0
OCT 05	
COL EP	18 08 17.0

Date and Station	Phase (GCT)
	h m s
OCT 05	
H-18 40 46.1	
52.0N 131.7W	
h ABOUT 057KM	
HHM EP	18 43 33.2
COL EP	18 44 20.0
ALQ IP	18 46 06.0
OCT 05	
COL EP	18 49 13.0
OCT 05	
H-20 20 02.7	
52.1N 178.1E	
h ABOUT 140KM	
COL IP	20 24 42.7
BOZ IP	20 28 04.9
EUR IP	20 28 15.0
IpP	28 47.3
IsP	29 06.8
IPCP	29 48.3
IPP	30 06.1
ESCP	33 27.0
FGU IP	20 28 37.2
RCD E(P)	20 28 49.0
TUC IP	20 29 14.2
IpP	29 47.2
ALQ EP	20 29 20.0
EpP	29 52.0
OCT 05	
BOZ IP	20 35 49.4
IS	36 00.0
BUT EP	20 36 01.5
ES	36 22.5
HHM EP	20 36 46.6
ES	37 34.6
OCT 05	
HHM EP	20 57 41.6
OCT 05	
ALQ EP	21 01 58.0
EpP	02 30.0
OCT 05	
GCA E(P)	21 22 06.3
ES	22 34.8
OCT 05	
EUR IP	22 22 01.5
IS	22 10.0
OCT 05	
FGU IP	22 58 57.6
IS	59 19.4
OCT 05	
H-23 50 46.3	
45.3N 150.0E	
h ABOUT 050KM	

Date and Station	Phase	Phase (GCT) h m s
COL	EP	23 58 05.0
EUR	IP	24 01 28.9
	E	01 38.9
	E	01 42.4
TUC	EP	24 02 17.3
	E	02 29.4
ALQ	IP	24 02 22.0
OCT 06		
FGU	E(P)	00 53 45.0
	E(S)	54 20.0
OCT 06		
FGU	E(P)	01 01 00.6
	E(S)	01 36.1
OCT 06		
BOZ	EP	05 08 48.0
	ES	09 22.0
EUR	E(P)	05 09 27.1
	EL	10 31.0
OCT 06		
BOZ	EP	05 27 40.0
	ES	28 11.0
OCT 06		
TUC	E(P)	05 50 03.0
OCT 06		
TUC	E(P)	05 53 45.5
OCT 06		
COL	EP	07 20 43.0
OCT 06		
FGU	E(P)	07 42 09.0
	ES	42 43.5
OCT 06		
H-08 48 12.4		
21.9N 127.4W		
h ABOUT 033KM		
BCN	EP	08 52 19.5
TUC	EP	08 52 21.7
	E	54 24.5
EUR	EP	08 52 44.5
GCA	E(P)	08 52 50.7
ALQ	EP	08 53 09.0
FGU	E(P)	08 53 29.6
COL	IP	08 56 25.7
OCT 06		
COL	EP	09 19 42.0
OCT 06		
COL	EP	09 29 47.0
OCT 06		
ALQ	E(P)	09 59 05.0
OCT 06		
COL	IP	11 14 59.0
OCT 06		
BUT	IP	12 54 40.0
	I	55 00.0
OCT 06		
UKI	EP	13 25 49.0
	E▸P	27 49.0
BUT	IP	13 26 37.8
	I	28 39.0
	I	30 34.0
OCT 06		
H-15 01 42.1		
22.0S 069.4W		
h ABOUT 033KM		
ALQ	IP	15 12 32.0
	E	13 07.0
TUC	EP	15 12 33.1
RCD	E(P)	15 13 09.0
FGU	IP	15 13 10.4
BOZ	EP	15 13 36.0
HHM	EP	15 13 53.1
OCT 06		
TUC	EP	16 36 17.4
OCT 06		
H-17 15 33.9		
33.9S 070.0W		
h ABOUT 101KM		
TUC	IP	17 27 12.6
	E▸P	27 38.5
ALQ	IP	17 27 14.8
	IPCP	27 30.0
	E▸P	27 41.0
GCA	IP	17 27 37.0
BCN	IP	17 27 39.8
	E▸P	28 05.7
FGU	IP	17 27 48.7
RCD	EP	17 27 49.5
BOZ	IP	17 28 11.0
BUT	IP	17 28 15.3
	E	28 52.8
HHM	EP	17 28 26.6
	E▸P	28 53.6
OCT 06		
ALQ	IP	17 33 03.5
GCA	E(P)	17 33 27.9
OCT 06		
BCN	E(P)	17 35 09.5
OCT 07		
COL	EP	03 40 42.0
OCT 07		
H-03 59 54.1		
11.6N 086.9W		
h ABOUT 050KM		
ALQ	IP	04 05 55.5
	EPCP	09 02.0
TUC	E(P)	04 06 07.4
	EPCP	09 04.0
	E	09 15.3
GCA	E(P)	04 06 34.3
BCN	E(P)	04 06 37.0
	E	06 43.0
	EPCP	09 18.2
	E	09 29.0
FGU	IP	04 06 47.3
	I▸P	06 59.1
BOZ	IP	04 07 25.5
	▸P	07 38.0
COL	EP	04 10 45.0
OCT 07		
COL	EP	04 36 06.0
OCT 07		
BOZ	EP	04 45 36.1
	E(S)	46 08.0
OCT 07		
BOZ	EP	05 24 30.0
	ES	25 07.0
OCT 07		
H-05 35 16.7		
19.8N 109.1W		
h ABOUT 033KM		
TUC	IP	05 38 16.4
BCN	EP	05 39 13.5
GCA	E(P)	05 39 19.0
FGU	IP	05 39 59.7
RCD	E(P)	05 40 35.0
OCT 07		
BOZ	EP	05 42 05.0
OCT 07		
ALQ	IP	05 53 53.0
OCT 07		
COL	EP	06 53 43.0
BCN	EP	06 57 16.7
OCT 07		
BOZ	EP	07 07 05.0
	ES	07 36.0
OCT 07		
H-11 16 06.0		
12.1S 065.4E		
h ABOUT 033KM		
RCD	EP'	11 35 45.0
BOZ	EP'	11 35 45.8
FGU	EP'	11 35 57.2
OCT 07		
GCA	E(P)	11 47 40.0
OCT 07		
H-12 43 53.6		
12.9S 076.8W		
h ABOUT 069KM		
ALQ	IP	12 53 22.5
	E▸P	53 35.0
TUC	IP	12 53 23.8
GCA	EP	12 53 51.5
BCN	IP	12 53 59.0
FGU	IP	12 54 05.1
BOZ	IP	12 54 35.1
	I▸P	54 46.0
HHM	EP	12 54 56.1
COL	IP	12 57 03.7
OCT 07		
ALQ	IP	13 11 31.0
OCT 07		
H-13 14 24.6		
23.6S 179.9E		
h ABOUT 550KM		
KIP	IP	13 22 27.7
	IS	28 58.0
HON	IP	13 22 28.0
	IS	28 58.0
GUA	IP	13 22 33.0
UKI	EP	13 25 49.0
	E▸P	27 49.0
BCN	IP	13 26 07.0
	I▸P	28 06.6
	E	28 49.5
	EPP	29 31.5
	SKS	35 43.5
TUC	IP	13 26 11.8
	E▸P	28 09.0
	I	59 40.8
GCA	IP	13 26 20.0
	I▸P	28 20.5
SLC	IP	13 26 27.5
COL	IP	13 26 33.2
FGU	IP	13 26 35.2
HHM	EP	13 26 38.6
	ESKS	36 20.6
OCT 07		
RCD	E(P)	13 29 04.0
	E	31 03.0

Date and Station	Phase (GCT)
	h m s
WAS EP	13 32 47.0
OCT 07	
RCD E(P)	13 36 47.0
OCT 07	
ALQ EP	16 55 53.0
E	56 14.0
OCT 07	
GCA EP	19 53 44.9
IS	54 02.7
OCT 07	
ALQ EP	20 43 52.0
OCT 07	
ALQ EP	20 46 28.0
OCT 07	
FGU EP	21 20 43.6
ES	21 01.3
OCT 07	
TUC E(P)	21 24 13.8
OCT 07	
H-21 30 30.0	
44.8N 114.4W	
h ABOUT 033KM	
HHM EP	21 31 24.4
I	31 33.4
I(S)	32 15.4
FGU E(P)	21 31 50.6
OCT 07	
EUR IP	22 21 01.1
IS	21 09.0
OCT 07	
FGU EP	22 48 55.2
ES	49 25.0
OCT 07	
GUA EP	23 05 31.0
OCT 07	
H-23 34 26.6	
42.7N 110.5E	
h ABOUT 033KM	
COL EP	23 44 08.0
HHM EP	23 46 39.4
EUR EP	23 47 14.4
RCD E(P)	23 47 22.0
FGU E(P)	23 47 25.2
BCN EP	23 47 32.0
ALQ EP	23 47 50.0
OCT 08	
H-00 17 01.1	
15.1S 173.2W	
h ABOUT 033KM	
HON IP	00 24 29.1
ES	30 34.0

Date and Station	Phase (GCT)
	h m s
KIP IP	00 24 29.7
ES	30 32.0
GUA EP	00 25 58.3
E	25 09.0
E	26 16.5
UKI EP	00 28 19.0
BCN EP	00 28 41.5
E	29 03.7
EUR IP	00 28 46.7
E	46 18.9
TUC EP	00 28 47.5
I	29 33.9
GCA IP	00 28 58.3
SLC IP	00 29 05.8
ALQ EP	00 29 12.0
FGU IP	00 29 15.3
COL IP	00 29 18.2
BOZ IP	00 29 19.2
RCD E(P)	00 29 43.0
OCT 08	
RCD E(P)	00 38 41.0
OCT 08	
H-02 02 53.4	
21.2S 177.9W	
h ABOUT 380KM	
GUA EP	02 11 15.9
TUC EP	02 14 41.4
EUR EP	02 14 41.7
COL IP	02 15 05.6
OCT 08	
COL EP	02 23 23.0
OCT 08	
H-02 51 06.0	
28.6N 095.1E	
h ABOUT 024KM	
EUR EP'	03 09 46.2
OCT 08	
H-02 59 55.9	
19.5N 065.6W	
h ABOUT 033KM	
SJP IP	03 00 13.0
OCT 08	
BOZ EP	04 25 27.5
ES	26 04.0
OCT 08	
H-06 26 17.6	
11.3N 125.9E	
h ABOUT 039KM	

Date and Station	Phase (GCT)
	h m s
COL EP	06 38 15.0
OCT 08	
FGU E(P)	07 12 12.0
ES	12 45.3
OCT 08	
BOZ EP	07 27 19.0
OCT 08	
H-08 17 46.8	
22.7S 113.0W	
h ABOUT 033KM	
TUC E(P)	08 27 16.2
EUR EP	08 28 06.2
OCT 08	
KIP EP	08 22 03.0
OCT 08	
COL IP	08 54 04.0
OCT 08	
COL EP	09 00 55.0
OCT 08	
COL IP	10 25 32.2
OCT 08	
H-10 28 56.5	
29.0S 070.3W	
h ABOUT 071KM	
TUC E(P)	10 40 35.3
FGU E(P)	10 40 52.3
I▸P	41 12.8
EUR EP	10 41 02.0
I▸P	41 23.0
OCT 08	
H-10 53 11.9	
76.5N 086.5E	
h ABOUT 025KM	
COL EP	11 00 02.0
BOZ EP	11 03 00.0
FGU IP	11 03 34.2
EUR IP	11 03 41.2
I	04 02.2
ALQ IP	11 04 14.0
TUC EP	11 04 28.5
OCT 08	
UKI EP	11 37 18.0
EL	53 00.0
OCT 08	
COL EP	12 13 14.0
OCT 08	
H-13 12 15.8	
45.5S 035.3E	
h ABOUT 033KM	
ALQ EP'	13 32 03.0

Date and Station	Phase (GCT)
	h m s
TUC EP'	13 32 12.4
E	33 27.8
RCD EP'	13 32 15.0
EUR EP'	13 32 19.0
BOZ E(P')	13 32 30.5
OCT 08	
BOZ E(P)	14 13 42.0
OCT 08	
GUA EP	14 56 36.5
OCT 08	
EUR IP	15 47 39.8
IL	48 00.3
OCT 08	
RCD EP	16 23 35.0
OCT 08	
ALQ E(P)	16 45 18.0
OCT 08	
BCN EP	18 42 00.0
ES	42 20.0
OCT 08	
BCN EP	20 01 48.3
ES	02 08.0
OCT 08	
H-20 29 40.1	
02.6N 128.4E	
h ABOUT 166KM	
GUA EP	20 33 58.0
OCT 08	
GUA E(P)	22 02 58.0
OCT 08	
EUR IP	22 23 31.3
I(L)	23 46.0
OCT 08	
BCN EP	22 42 02.0
IS	42 22.0
EUR EP	22 42 11.9
I	42 12.3
IL	42 39.9
OCT 08	
H-23 01 16.0	
19.4S 175.8W	
h ABOUT 182KM	
TUC EP	23 13 11.8
ALQ I(P)	23 13 33.0
E	14 31.0
COL IP	23 13 39.3
OCT 08	
BCN I(P)	23 03 30.5
EUR IP	23 04 12.1
I(L)	04 40.0

Date and Station	Phase (GCT)
	h m s
OCT 08	
ALQ IP	23 18 09.0
TUC E(P)	23 18 15.0
OCT 09	
SLC IP	00 04 16.0
IS	04 37.0
EUR EP	00 05 00.3
E(L)	05 41.0
OCT 09	
ALQ EP	00 21 21.0
OCT 09	
TUC E(P)	01 57 02.0
COL EP	01 57 31.0
OCT 09	
BOZ EP	02 14 18.0
E	15 44.0
FGU E(P)	02 14 33.1
ALQ EP	02 14 53.0
E	16 17.0
EUR EP	02 15 08.8
OCT 09	
H-03 21 11.1	
53.8N 170.5W	
h ABOUT 250KM	
COL EP	03 24 43.0
HHM EP	03 27 41.8
BOZ EP	03 28 06.0
EUR IP	03 28 16.5
I▸P	29 08.3
IPCP	30 24.0
ESCP	33 34.4
E(S)	34 10.0
FGU E(P)	03 28 40.0
TUC EP	03 29 18.0
ALQ IP	03 29 25.0
EPCP	30 53.0
OCT 09	
BOZ EP	03 46 24.0
E	48 38.0
OCT 09	
H-04 36 43.6	
39.4N 042.8E	
h ABOUT 035KM	
COL IP	04 48 23.7
OCT 09	
H-05 13 26.9	
18.6S 173.7W	
h ABOUT 033KM	
TUC E(P)	05 25 28.0
E	25 38.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	05 25 30.8
E	25 34.5
ALQ EP	05 25 52.0
BOZ E(P)	05 25 54.0
E	26 05.0
FGU E(P)	05 25 56.3
COL IP	05 26 01.7
OCT 09	
FGU IP	05 15 00.3
ES	15 26.8
OCT 09	
EUR EP	06 54 54.8
I▸P	55 12.8
OCT 09	
RCD E(P)	07 25 29.0
OCT 09	
H-07 36 47.7	
14.6S 173.2W	
h ABOUT 033KM	
COL IP	07 49 02.8
OCT 09	
H-07 40 57.0	
14.3S 172.6W	
h ABOUT 033KM	
TUC E(P)	07 52 37.0
E	52 49.0
COL EP	07 53 10.0
OCT 09	
BOZ EP	08 04 45.0
ALQ EP	08 05 13.0
EUR EP	08 05 31.8
COL IP	08 05 36.1
TUC E(P)	08 05 42.0
FGU EP	08 05 57.6
OCT 09	
BOZ EP	08 23 31.0
E	23 47.5
FGU EP	08 23 43.9
TUC E(P)	08 24 28.0
OCT 09	
H-10 15 32.6	
16.6S 177.1E	
h ABOUT 077KM	
EUR EP	10 27 55.6
E	30 20.0
TUC E(P)	10 27 58.0
COL IP	10 28 05.3
FGU E(P)	10 28 20.5

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	10 28 21.0
BOZ EP	10 28 22.0
HON ES	10 30 34.0
EL	36 00.0
OCT 09	
H-10 36 53.4	
20.3S 174.4W	
h ABOUT 033KM	
TUC EP	10 49 03.0
EUR IP	10 49 06.4
ALQ IP	10 49 27.0
FGU E(P)	10 49 31.5
BOZ EP	10 49 36.0
E	49 47.5
COL EP	10 49 39.0
OCT 09	
FGU IP	11 03 34.2
OCT 09	
GUA E(P)	12 54 40.5
OCT 09	
TUC EP	13 08 10.5
ALQ E(P)	13 08 30.0
OCT 09	
FGU E(P)	13 13 22.6
OCT 09	
TUC E(P)	13 56 42.0
OCT 09	
H-14 36 32.2	
27.7N 138.5E	
h ABOUT 556KM	
GUA E(P)	14 39 44.2
EUR EP	14 48 04.4
OCT 09	
FGU EP	16 45 29.0
ES	46 08.0
OCT 09	
GUA E(P)	17 12 56.5
E(S)	13 15.0
OCT 09	
BOZ IP	17 15 57.0
IS	16 07.0
HHM EP	17 16 29.7
E	17 05.7
OCT 09	
ALQ E(P)	17 21 40.0
OCT 09	
BOZ EP	17 33 22.0
E	33 51.0

Date and Station	Phase (GCT)
	h m s
OCT 09	
BOZ IP	18 09 23.0
IS	09 32.0
OCT 09	
GUA EP	18 49 49.0
ES	50 05.0
OCT 09	
ALQ E(P)	20 39 37.0
OCT 09	
H-21 20 29.9	
44.0N 147.5E	
h ABOUT 033KM	
COL EP	21 28 09.0
BOZ EP	21 31 18.0
OCT 09	
FGU E(P)	21 40 19.2
ALQ E(P)	21 41 04.0
OCT 09	
ALQ E(P)	21 48 12.0
OCT 09	
FGU IP	22 09 52.3
IS	10 11.9
OCT 09	
SJP IP	22 32 47.0
OCT 09	
COL EP	22 43 46.3
OCT 09	
EUR EP	22 49 05.1
OCT 09	
FGU IP	22 57 11.4
ES	57 31.4
OCT 09	
COL IP	22 58 47.1
OCT 09	
GCA E(P)	23 17 28.5
EUR EP	23 17 58.0
EL	18 27.0
OCT 09	
RCD E(P)	23 21 39.0
OCT 09	
H-23 40 56.5	
08.4S 126.1E	
h ABOUT 229KM	
ALQ EP'	23 59 49.0
OCT 09	
RCD E(P)	23 54 05.0
OCT 10	
GUA IP	00 09 30.9
RCD E(P)	00 16 08.0

Date and Station	Phase (GCT)
	h m s
OCT 10	
H-00 50 35.4	
5.6S 145.6E	
h ABOUT 102KM	
GUA E(P)	00 54 53.0
COL IP	01 03 01.9
OCT 10	
GUA E(P)	00 53 31.0
E	53 42.5
OCT 10	
COL IP	02 23 46.1
OCT 10	
COL IP	02 34 59.0
OCT 10	
H-03 15 15.2	
47.6N 127.1W	
h ABOUT 033KM	
ALQ EP	03 19 42.0
OCT 10	
TUC E(P)	03 30 09.5
OCT 10	
SJP EP	04 10 10.0
OCT 10	
TUC E(P)	04 27 00.0
OCT 10	
RCD E(P)	04 53 54.0
OCT 10	
GUA E(P)	06 27 13.0
OCT 10	
RCD E(P)	07 20 25.0
OCT 10	
SJP EP	09 49 00.0
OCT 10	
KIP IP	10 07 01.3
IS	07 16.0
HON EP	10 07 01.4
ES	07 15.0
OCT 10	
H-10 15 17.4	
46.0N 153.7E	
h ABOUT 045KM	
COL IP	10 22 18.0
BOZ E(P)	10 25 33.0
EUR EP	10 25 43.8
FGU E(P)	10 26 07.9
RCD E(P)	10 26 11.0
TUC E(P)	10 26 34.0
ALQ E(P)	10 26 46.0

Date and Station	Phase (GCT)
	h m s
OCT 10	
GUA E(P)	10 50 48.0
OCT 10	
COL IP	11 06 09.0
E	06 47.0
OCT 10	
H-12 04 46.6	
20.2S 175.2W	
h ABOUT 025KM	
TUC E(P)	12 17 01.0
ALQ EP	12 17 22.0
COL EP	12 17 32.0
OCT 10	
COL EP	13 14 43.0
OCT 10	
GUA E(P)	13 17 26.5
OCT 10	
GUA E(P)	13 26 28.2
OCT 10	
GUA EP	13 47 26.5
TUC E(P)	13 47 40.0
ALQ E(P)	13 50 46.0
OCT 10	
H-14 16 31.1	
12.6S 167.0E	
h ABOUT 223KM	
COL IP	14 28 38.9
EUR IP	14 28 59.4
E▸P	29 52.9
TUC EP	14 29 08.5
E▸P	30 02.0
ALQ IP	14 29 28.0
OCT 10	
H-14 59 52.5	
39.8N 078.2W	
h ABOUT 015KM	
WAS ES	15 00 27.5
EL	00 37.5
OCT 10	
H-16 49 52.0	
12.4N 144.0E	
h ABOUT 035KM	
GUA IP	16 50 16.8
IS	50 36.6
OCT 10	
RCD E(P)	17 37 56.0
BOZ EP	17 39 27.0
OCT 10	
GUA EP	18 14 53.3
ES	15 07.0

Date and Station	Phase (GCT)
	h m s
OCT 10	
ALQ EP	18 25 26.0
OCT 10	
H-18 15 13.0	
52.5N 176.3W	
h ABOUT 033KM	
COL EP	18 19 36.0
BOZ EP	18 22 59.0
OCT 10	
FGU IP	21 13 27.9
IS	13 47.6
OCT 10	
FGU IP	23 02 32.8
OCT 10	
SLC E(P)	23 07 06.3
ES	07 30.8
FGU EP	23 08 02.3
OCT 11	
H-00 01 13.0	
24.1S 179.6W	
h ABOUT 437KM	
EUR IP	00 13 09.6
GCA IP	00 13 18.7
ALQ IP	00 13 29.0
FGU IP	00 13 33.0
OCT 11	
GCA EP	00 28 03.2
OCT 11	
ALQ EP	01 01 18.0
OCT 11	
WAS EP	01 08 23.0
E	12 28.0
S	14 08.0
OCT 11	
SJP EP	03 31 47.5
EL	32 08.0
OCT 11	
BOZ EP	07 34 37.0
ES	35 10.0
OCT 11	
COL IP	08 02 57.5
OCT 11	
EUR IP	08 25 15.7
EL	25 55.0
OCT 11	
H-09 51 16.5	
18.0N 105.6W	
h ABOUT 033KM	
ALQ IP	09 55 13.0
GCA E(P)	09 55 44.7
FGU EP	09 56 20.3

Date and Station	Phase (GCT)
	h m s
EUR IP	09 56 21.3
SLC E(P)	09 56 22.4
BOZ E(P)	09 57 05.0
OCT 11	
H-09 59 41.9	
50.0N 029.2W	
h ABOUT 033KM	
BOZ E(P)	10 07 58.0
OCT 11	
TUC E(P)	10 00 51.0
OCT 11	
H-10 17 07.6	
17.8N 105.9W	
h ABOUT 033KM	
TUC IP	10 20 40.5
ALQ IP	10 21 08.0
ES	24 12.0
EL	25 54.0
GCA E(P)	10 21 38.8
EUR IP	10 22 15.5
SLC EP	10 22 16.4
RCD E(P)	10 22 43.0
COL EP	10 26 34.0
CHK ES	10 27 55.9
E	31 48.7
OCT 11	
FGU I(P)	11 22 14.7
OCT 11	
H-12 13 49.3	
35.0N 135.2E	
h ABOUT 379KM	
COL EP	12 22 34.0
OCT 11	
KIP EP	13 01 14.8
COL EP	13 05 58.0
OCT 11	
H-14 00 00.0	
37.0N 116.0W	
h ABOUT 000KM	
BCN IP	14 00 26.7
EUR IP	14 00 42.0
GCA EP	14 00 57.8
I	01 00.5
SLC EP	14 01 19.4
I	01 37.4
TUC I(P)	14 01 37.0
E▸P	01 58.0
FGU EP	14 01 42.1

Date and Station	Phase	Phase (GCT) h m s
BOZ	EP	14 02 20.0
ALQ	I(P)	14 02 59.8
	E	05 23.0
OCT 11		
BCN	EP	14 08 51.1
	I	08 54.7
	IS	09 15.7
EUR	IP	14 09 08.0
SLC	E(P)	14 09 42.9
ALQ	EP	14 10 54.0
OCT 11		
COL	EP	14 10 54.0
OCT 11		
HHM	E(P)	15 02 51.0
	E	06 05.0
OCT 11		
BOZ	EP	15 05 04.0
	ES	05 35.0
OCT 11		
H-16 33 59.8		
18.5S 177.7W		
h ABOUT 583KM		
TUC	EP	16 45 20.3
COL	P	16 45 39.6
OCT 11		
SLC	E(P)	16 54 40.4
	I	55 34.0
FGU	IP	16 54 51.0
	IS	15 55 28.5
BOZ	IP	16 55 45.0
	I(S)	56 15.0
OCT 11		
WAS	E	17 30 30.8
OCT 11		
HHM	E(P)	17 55 41.0
	E	56 51.4
OCT 11		
COL	IP	18 09 59.1
	I	10 08.3
ALQ	E(P)	18 11 20.0
OCT 11		
BCN	IP	18 51 41.1
	IS	51 42.6
TUC	E(P)	18 52 57.0
OCT 11		
FGU	EP	19 19 21.4
	ES	19 46.5
OCT 11		
FGU	IP	19 56 53.4
OCT 11		
TUC	E(P)	20 23 24.0

Date and Station	Phase	Phase (GCT) h m s
OCT 11		
H-21 00 00.2		
37.1N 116.0W		
h ABOUT 000KM		
BCN	EP	21 00 28.0
	ES	00 50.8
EUR	IP	21 00 40.5
	I(S)	01 10.0
GCA	I(P)	21 01 06.3
ALQ	E(P)	21 02 35.0
OCT 11		
FGU	IP	21 56 50.5
OCT 11		
FGU	IP	22 48 20.7
	IS	48 41.6
OCT 11		
TUC	IP	22 53 37.0
FGU	EP	22 54 33.6
OCT 11		
H-23 09 53.1		
43.4N 111.1W		
h ABOUT 030KM		
BOZ	IP	23 10 29.9
	I(S)	11 00.0
BUT	EP	23 10 35.2
	E	11 18.2
FGU	IP	23 10 37.6
	IS	11 11.6
OCT 11		
SLC	E(P)	23 10 11.5
OCT 11		
SLC	IP	23 39 01.0
	IS	39 21.5
FGU	IP	23 39 32.6
	IS	40 02.1
ALQ	EP	23 41 08.0
OCT 11		
GCA	EP	23 55 31.8
OCT 12		
UKI	EP	00 28 19.0
OCT 12		
H-00 38 12.5		
18.6S 179.8E		
h ABOUT 347KM		
TUC	EP	00 50 03.0
OCT 12		
H-02 46 48.1		
71.6N 073.0W		
h ABOUT 033KM		
ALQ	EP	02 54 27.0
TUC	E(P)	02 54 54.0

Date and Station	Phase	Phase (GCT) h m s
OCT 12		
BOZ	EP	02 59 20.0
	EL	03 00 52.0
FGU	EP	02 59 29.1
	ES	03 00 02.6
OCT 12		
BOZ	E(P)	03 00 46.5
BUT	E(P)	03 00 54.2
	E	02 58.2
RCD	E(P)	03 02 21.0
	E	02 46.0
OCT 12		
BOZ	E	03 04 03.0
OCT 12		
H-03 37 09.2		
10.2S 161.2E		
h ABOUT 065KM		
COL	IP	03 49 31.3
EUR	IP	03 50 08.1
OCT 12		
HHM	E(P)	03 59 07.0
	E	04 01 04.0
OCT 12		
GUA	EP	04 24 36.0
OCT 12		
FGU	IP	04 34 27.9
	IS	34 54.9
GCA	IP	04 34 44.7
	IS	35 18.7
EUR	E(P)	04 35 17.5
OCT 12		
GUA	IP	05 06 17.5
OCT 12		
GUA	E(P)	05 23 49.5
EUR	EP	05 35 18.0
OCT 12		
H-06 58 25.7		
43.3N 110.9W		
h ABOUT 030KM		
BOZ	IP	06 59 03.0
	IL	59 35.0
SLC	EP	06 59 08.6
FGU	IP	06 59 09.8
	IL	59 45.3
BUT	EP	06 59 11.1
EUR	E(P)	06 59 46.7
OCT 12		
COL	IP	07 36 15.1

Date and Station	Phase	Phase (GCT) h m s
OCT 12		
HHM	EP	07 59 44.4
	E	08 01 07.4
OCT 12		
BOZ	EP	08 30 48.0
	E(S)	31 20.0
FGU	EP	08 31 00.1
	ES	31 30.6
OCT 12		
GCA	EP	08 41 12.9
	I	41 16.6
OCT 12		
H-10 25 37.4		
52.3N 179.8W		
h ABOUT 033KM		
COL	IP	10 30 15.8
	I	30 26.5
BOZ	EP	10 33 40.2
EUR	EP	10 33 50.0
OCT 12		
GUA	IP	10 30 37.2
	IS	30 56.0
OCT 12		
H-10 58 27.0		
04.2S 105.2W		
h ABOUT 033KM		
EUR	EP	11 06 37.5
OCT 12		
H-11 26 57.9		
44.8 149.0E		
h ABOUT 033KM		
COL	IP	11 34 26.9
	IS	40 26.0
SIT	IP	11 35 29.0
	ES	42 20.0
KIP	IP	11 35 43.0
HON	EP	11 35 48.0
	E	36 02.0
	IS	42 54.0
	ISCS	45 41.0
	I	47 20.0
	IL	48 26.0
UKI	EP	11 37 18.0
	EL	53 00.0
HHM	EP	11 37 18.4
	ES	45 39.4
	EP'P'	12 06 16.4
	E	12 38.0
BUT	EP	11 37 32.1
	ES	46 10.1
BOZ	IP	11 37 37.0
	IPP	37 49.0
	ES	46 10.0

Date and Station	Phase (GCT)
	h m s
EUR IP	11 37 46.9
ES	46 29.0
SLC IP	11 37 56.6
FGU I(P)	11 38 04.8
BCN IP	11 38 05.0
I▸P	38 17.0
I▸P	38 25.5
I	41 15.0
I	43 24.5
ES	47 13.6
EP'P'	12 06 14.0
RCD EP	11 38 11.2
E▸P	38 22.0
E	38 41.0
GCA IP	11 38 11.8
TUC IP	11 38 33.8
I(SCS)	49 09.0
ALQ IP	11 38 39.0
I	39 30.0
CHK E(P)	11 39 08.7
ES	49 01.1
ISCS	49 21.9
PHI E(P)	11 39 42.4
IS	50 22.0
CSC IP	11 39 53.0
IS	50 38.0
SJP E(P)	11 46 10.5
OCT 12	
GUA E(P)	11 34 07.5
OCT 12	
H-11 41 47.8	
48.3 149.2E	
h ABOUT 040KM	
COL EP	11 48 07.5
OCT 12	
BOZ EP	11 48 35.0
▸P	48 45.0
OCT 12	
H-11 53 04.9	
46.0N 148.8E	
h ABOUT 033KM	
TUC E(P)	12 04 32.0
OCT 12	
FGU E(P)	11 55 43.8
ES	56 12.8
OCT 12	
BHP I	11 56 00.0
OCT 12	
FGU IP	12 00 02.2
OCT 12	
H-12 02 18.8	
44.4N 149.6E	
h ABOUT 040KM	

Date and Station	Phase (GCT)
	h m s
TUC E(P)	12 14 01.0
OCT 12	
H-12 32 35.8	
44.7N 149.6E	
h ABOUT 040KM	
TUC E(P)	12 44 11.0
OCT 12	
FGU E(P)	12 53 45.2
E(S)	54 19.7
OCT 12	
H-13 07 07.9	
44.5N 149.4E	
h ABOUT 050KM	
COL EP	13 14 36.0
EUR EP	13 17 56.0
I▸P	18 09.5
BCN E(P)	13 18 20.6
RCD E(P)	13 18 34.0
TUC EP	13 18 43.0
ALQ EP	13 18 48.0
OCT 12	
COL E(P)	13 29 33.0
BOZ IP	13 32 46.6
I	33 00.0
OCT 12	
H-13 29 36.4	
44.5N 149.3E	
h ABOUT 050KM	
COL IP	13 37 04.9
OCT 12	
HHM EP	13 43 07.4
OCT 12	
H-13 54 58.3	
43.5N 151.1E	
h ABOUT 040KM	
COL EP	14 02 25.0
EUR E(P)	14 05 53.3
E	06 05.8
OCT 12	
H-14 15 08.2	
44.7N 149.5E	
h ABOUT 045KM	
EUR EP	14 25 55.5
E	26 03.5
E▸P	26 08.5
OCT 12	
HHM EP	14 17 26.4
OCT 12	
H-14 33 36.5	
30.4N 041.8W	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL EP	14 44 41.0
OCT 12	
HHM EP	15 05 24.3
OCT 12	
HHM EP	15 25 26.3
OCT 12	
GUA EP	15 36 08.0
OCT 12	
H-16 11 55.0	
44.4N 149.7E	
h ABOUT 060KM	
COL IP	16 19 20.4
BOZ EP	16 22 31.2
EUR EP	16 22 40.5
E▸P	22 53.5
ALQ IP	16 23 33.0
OCT 12	
GUA EP	16 13 06.0
OCT 12	
H-16 28 10.4	
44.8N 149.4E	
h ABOUT 050KM	
COL IP	16 35 36.2
OCT 12	
BOZ EP	16 53 46.0
OCT 12	
BOZ EP	17 12 11.5
E	15 49.0
OCT 12	
HHM EP	17 22 11.3
OCT 12	
H-18 05 47.8	
44.5N 149.7E	
h ABOUT 045KM	
COL IP	18 13 15.3
BOZ EP	18 16 25.2
I▸P	16 39.0
OCT 12	
H-18 48 35.5	
44.7N 149.4E	
h ABOUT 050KM	
COL IP	18 56 02.1
BOZ IP	18 59 12.0
I▸P	59 26.0
EUR EP	18 59 21.2
BCN EP	18 59 40.5
TUC EP	19 00 09.0
ALQ IP	19 00 14.0

Date and Station	Phase (GCT)
	h m s
OCT 12	
HHM EP	19 15 10.8
I	15 19.3
OCT 12	
EUR E(P)	19 37 39.0
OCT 12	
SJP EP	19 44 15.5
ES	44 29.0
OCT 12	
H-19 46 52.9	
44.3N 149.4E	
h ABOUT 045KM	
COL EP	19 54 22.0
OCT 12	
BCN EP	19 55 53.5
HHM EP	19 58 52.2
E	59 07.3
OCT 12	
H-19 57 00.2	
44.6N 149.4E	
h ABOUT 050KM	
COL IP	20 04 27.4
BOZ IP	20 07 37.0
EUR EP	20 07 47.1
E	07 54.5
E▸P	08 00.6
TUC E(P)	20 08 35.0
OCT 12	
BOZ E(P)	20 07 22.0
OCT 12	
H-20 21 04.5	
44.4N 149.2E	
h ABOUT 045KM	
COL IP	20 28 33.7
RCD E(P)	20 31 18.0
BOZ IP	20 31 43.5
I▸P	31 56.0
EUR EP	20 31 53.3
E	32 02.8
E▸P	32 05.0
BCN EP	20 32 12.0
E▸P	32 24.7
TUC E(P)	20 32 41.0
OCT 12	
SLC E(P)	21 06 19.2
I	06 27.7
ES	06 55.7
FGU EP	21 06 25.2
IS	07 02.4
BUT EP	21 06 28.1

Date and Station	Phase (GCT)
	h m s
OCT 12	
BOZ IP	21 10 52.0
IL	11 23.0
FGU IP	21 10 56.9
IS	11 32.8
OCT 12	
FGU IP	21 13 22.4
IS	13 56.6
OCT 12	
H-21 17 37.5	
17.9N 145.2E	
h ABOUT 638KM	
GUA E(P)	21 19 08.0
E	20 21.9
OCT 12	
BOZ IP	21 26 20.0
IL	26 49.0
OCT 12	
BOZ EP	21 31 14.9
ES	31 46.0
FGU EP	21 31 21.6
ES	31 55.9
OCT 12	
GUA E(P)	21 40 05.0
OCT 12	
GUA IP	21 53 55.0
IS	54 09.0
OCT 12	
BOZ IP	22 02 40.5
IL	03 12.0
FGU EP	22 02 44.6
IS	03 20.4
SLC EP	22 02 45.9
ES	03 19.2
OCT 12	
FGU EP	22 06 38.9
IS	07 13.9
OCT 12	
H-21 59 01.9	
43.1N 111.1W	
h ABOUT 033KM	
SLC EP	21 59 37.7
EL	22 00 15.7
BOZ IP	21 59 40.0
IS	22 00 10.0
FGU EP	21 59 44.4
IS	22 00 18.1
BUT E(P)	21 59 52.1
OCT 12	
H-22 02 01.2	
44.5N 149.5E	
h ABOUT 045KM	
COL IP	22 09 28.7

Date and Station	Phase (GCT)
	h m s
BOZ EP	22 12 39.0
IpP	12 52.0
ALQ IP	22 13 41.0
OCT 12	
H-22 07 29.3	
44.4N 149.2E	
h ABOUT 040KM	
COL IP	22 14 59.9
OCT 12	
FGU IP	22 15 41.9
IS	16 14.4
OCT 12	
ALQ IP	22 28 13.0
I	28 40.0
TUC EP	22 28 17.0
COL IP	22 33 34.4
OCT 12	
H-22 34 01.6	
43.1N 111.3W	
h ABOUT 033KM	
SLC EP	22 34 37.7
E(S)	35 12.7
FGU EP	22 34 44.9
I	34 46.4
IS	35 17.9
OCT 12	
HHM E(P)	23 01 46.3
OCT 12	
H-23 02 41.4	
50.8N 149.0E	
h ABOUT 033KM	
COL IP	23 09 30.0
BOZ E(P)	23 12 45.1
I	12 59.5
OCT 12	
SLC EP	23 06 56.7
E	07 06.7
E	07 28.7
OCT 12	
SLC EP	23 10 51.2
OCT 12	
HHM E(P)	23 35 22.3
ES	36 44.3
OCT 12	
H-23 40 11.1	
44.3N 149.2E	
h ABOUT 040KM	
COL IP	23 47 41.3
EUR E(P)	23 51 00.6
OCT 13	
BCN IP	00 41 18.5
IS	41 44.0

Date and Station	Phase (GCT)
	h m s
OCT 13	
H-01 26 34.3	
44.4N 149.3E	
h ABOUT 033KM	
HHM EP	01 36 55.3
E	37 05.3
BOZ IP	01 37 15.0
I	37 29.0
EUR EP	01 37 23.7
BCN EP	01 37 43.3
E	37 57.6
RCD E(P)	01 38 03.0
ALQ IP	01 38 17.0
OCT 13	
H-01 34 54.3	
44.4N 149.2E	
h ABOUT 033KM	
HHM EP	01 45 14.4
BOZ IP	01 45 35.0
EUR EP	01 45 43.5
E	45 59.7
ALQ EP	01 46 36.0
OCT 13	
FGU E(P)	02 23 42.5
ES	03 24 11.5
HHM EP	02 23 09.3
OCT 13	
FGU EP	02 49 11.2
ES	49 45.2
OCT 13	
FGU EP	02 51 48.2
ES	52 23.2
OCT 13	
FGU EP	02 57 09.1
IS	57 43.5
OCT 13	
FGU EP	02 58 10.5
IS	58 46.7
OCT 13	
FGU EP	03 06 57.5
ES	07 25.7
OCT 13	
FGU EP	03 12 04.5
ES	12 40.4
OCT 13	
FGU EP	03 41 30.5
IS	42 00.5
OCT 13	
H-04 05 50.1	
44.4N 149.2E	
h ABOUT 030KM	
COL IP	04 13 24.7

Date and Station	Phase (GCT)
	h m s
HHM EP	04 16 11.3
BOZ EP	04 16 32.0
EUR EP	04 16 40.5
BCN EP	04 16 59.0
E	17 15.5
ALQ EP	04 17 33.0
OCT 13	
FGU E(P)	04 10 27.9
IS	11 03.2
HHM E(P)	04 12 13.3
OCT 13	
FGU E(P)	04 22 54.7
ES	23 30.2
OCT 13	
H-05 10 12.5	
09.8N 084.1W	
h ABOUT 063KM	
BHP IP	05 11 19.0
IS	12 12.0
SJP EP	05 14 36.5
CSC EP	05 15 25.0
ALQ EP	05 16 37.0
OCT 13	
SIT EP	05 10 17.7
OCT 13	
H-05 17 57.1	
44.8N 149.5E	
h ABOUT 060KM	
GUA E(P)	05 24 19.0
E	28 20.0
E	29 54.5
COL IP	05 25 21.9
SIT EP	05 26 23.8
ES	33 16.0
EsS	33 36.0
ESS	36 46.0
KIP EP	05 26 37.0
HON EP	05 26 39.0
E(S)	33 50.0
HHM EP	05 28 13.2
UKI EP	05 28 17.0
ES	36 43.0
EL	44 10.0
BUT EP	05 28 26.2
E(S)	37 12.2
BOZ EP	05 28 31.0
EUR IP	05 28 41.5
SLC IP	05 28 52.7

Date and Station	Phase (GCT)
	h m s
FGU EP	05 28 59.3
I	29 05.3
GCA EP	05 29 07.1
I	29 09.9
TUC EP	05 29 29.0
ALQ IP	05 29 34.0
E▸P	29 52.0
PHI E(P)	05 30 10.0
I	30 43.0
I	41 25.0
CSC EP	05 30 48.0
I	39 38.0
BHP IP	05 32 30.0
SJP E(P)	05 32 34.0
EP'	36 32.5
IPP	37 22.0
EPKKP	47 45.0
E	56 46.0
OCT 13	
TUC EP	05 18 43.0
OCT 13	
TUC EP	05 19 28.0
OCT 13	
TUC E(P)	05 28 18.0
OCT 13	
H-05 30 04.6	
44.8N 151.2E	
h ABOUT 040KM	
SIT EP	05 38 22.5
BCN IP	05 41 03.4
OCT 13	
BCN IP	05 36 47.3
I	36 59.0
OCT 13	
FGU EP	05 50 25.1
IS	50 56.3
OCT 13	
H-06 05 29.5	
45.9N 151.9E	
h ABOUT 055KM	
SIT E(P)	06 13 31.4
OCT 13	
BCN E(P)	06 27 06.4
OCT 13	
H-06 46 54.0	
45.3N 147.5E	
h ABOUT 055KM	
BCN EP	06 58 04.2
OCT 13	
H-07 03 23.8	
45.5N 150.6E	
h ABOUT 050KM	

Date and Station	Phase (GCT)
	h m s
KIP E(P)	07 12 14.0
BCN EP	07 14 21.4
E	14 32.4
GCA IP	07 14 29.0
OCT 13	
H-07 16 42.9	
45.5N 151.5E	
h ABOUT 055KM	
BCN EP	07 27 36.4
OCT 13	
FGU EP	07 17 28.4
IS	18 02.2
OCT 13	
HHM EP	07 34 20.2
OCT 13	
H-07 35 44.7	
46.5N 151.8E	
h ABOUT 045KM	
BCN EP	07 46 35.4
E	46 47.4
OCT 13	
HHM EP	07 46 57.2
BCN EP	07 47 44.6
E	47 59.4
OCT 13	
H-07 48 22.8	
45.7N 149.6E	
h ABOUT 030KM	
HHM EP	07 58 38.1
BCN EP	07 59 25.4
OCT 13	
H-08 06 36.2	
45.3N 151.7E	
h ABOUT 040KM	
HHM EP	08 16 44.3
BOZ E(P)	08 17 17.0
BCN EP	08 17 32.4
OCT 13	
H-08 11 32.0	
44.5N 151.6E	
h ABOUT 060KM	
BCN EP	08 22 27.9
OCT 13	
BCN E(P)	08 13 09.4
E	13 17.4
OCT 13	
BCN EP	08 20 40.6
OCT 13	
CSC E	08 29 31.0
E	35 33.0

Date and Station	Phase (GCT)
	h m s
OCT 13	
H-08 34 40.0	
44.5N 150.9E	
h ABOUT 033KM	
GUA E(P)	08 41 09.5
HHM E(P)	08 44 42.2
OCT 13	
FGU E(P)	08 36 34.6
IS	37 08.1
OCT 13	
H-08 37 11.4	
45.2N 149.9E	
h ABOUT 050KM	
HHM EP	08 47 25.2
BCN E(P)	08 48 28.9
OCT 13	
H-08 39 46.7	
45.6N 148.0E	
h ABOUT 040KM	
HHM EP	08 50 07.2
E	50 28.2
OCT 13	
H-08 50 20.4	
45.3N 151.2E	
A ABOUT 040KM	
BOZ EP	08 59 45.0
BCN EP	09 01 37.8
E	01 48.9
OCT 13	
BOZ EP	09 02 06.0
OCT 13	
FGU EP	09 06 30.0
IS	07 05.8
OCT 13	
H-09 11 53.9	
43.8N 150.8E	
h ABOUT 030KM	
BCN EP	09 23 01.3
E	23 10.8
OCT 13	
FGU EP	09 15 51.5
IS	16 25.0
OCT 13	
H-09 16 25.9	
44.6N 149.6E	
h ABOUT 050KM	
HHM EP	09 26 43.2
I▸P	26 56.2
BCN EP	09 27 30.5
E▸P	27 43.8
GCA E(P)	09 27 38.4
TUC E(P)	09 28 00.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	09 28 05.0
OCT 13	
FGU EP	09 29 44.0
ES	30 09.8
OCT 13	
H-09 22 44.6	
44.9N 151.0E	
h ABOUT 050KM	
HHM EP	09 32 56.0
BCN EP	09 33 43.6
E▸P	33 57.8
GCA E(P)	09 33 51.4
TUC E(P)	09 34 13.0
ALQ EP	09 34 17.0
OCT 13	
H-09 44 51.6	
44.1N 150.0E	
h ABOUT 045KM	
HHM E(P)	09 55 21.3
BCN E(P)	09 56 04.1
E▸P	56 13.4
ALQ E(P)	09 56 41.0
OCT 13	
FGU EP	09 50 15.0
IS	50 49.5
OCT 13	
H-09 51 50.4	
42.0N 149.5E	
h ABOUT 045KM	
HHM EP	10 02 17.3
I▸P	02 29.3
OCT 13	
HHM EP	10 01 15.3
OCT 13	
H-10 06 23.8	
44.2N 150.2E	
h ABOUT 045KM	
HHM EP	10 16 41.3
I▸P	16 53.3
EUR EP	10 17 09.7
E	17 11.7
BCN EP	10 17 30.3
E(▸P)	17 40.9
TUC E(P)	10 17 57.0
OCT 13	
FGU E(P)	10 06 33.4
OCT 13	
H-10 10 28.2	
44.5N 149.6E	
h ABOUT 045KM	
COL IP	10 17 57.2

Date and Station	Phase	Phase (GCT) h m s
HHM	EP	10 19 46.3
	E▸P	19 58.3
EUR	EP	10 21 15.8
BCN	EP	10 21 32.3
	E▸P	21 44.3
TUC	E(P)	10 22 04.0
OCT 13		
ALQ	IP	10 30 36.0
OCT 13		
H-10 33 57.3		
44.4N 150.3E		
h ABOUT 045KM		
COL	EP	10 41 23.0
HHM	EP	10 44 14.3
	I▸P	44 26.3
EUR	EP	10 44 42.3
	E▸P	44 54.8
BCN	EP	10 45 00.0
	E▸P	45 13.8
TUC	E(P)	10 45 31.0
OCT 13		
H-10 36 44.9		
45.3N 150.4E		
h ABOUT 045KM		
HHM	EP	10 46 57.3
OCT 13		
BCN	EP	10 40 46.8
	E	41 01.8
OCT 13		
H-10 47 13.7		
45.4N 151.8E		
h ABOUT 040KM		
HHM	EP	10 57 20.5
	E▸P	57 32.2
EUR	EP	10 57 50.5
	E	58 00.5
BCN	EP	10 58 08.3
	E▸P	58 20.6
TUC	E(P)	10 58 39.0
ALQ	IP	10 58 44.0
OCT 13		
FGU	EP	10 53 31.7
	IS	54 05.4
OCT 13		
FGU	E(P)	11 00 29.9
	ES	01 10.7
OCT 13		
FGU	EP	11 06 01.4
	ES	06 36.6
OCT 13		
ALQ	EP	11 12 14.0

Date and Station	Phase	Phase (GCT) h m s
OCT 13		
H-11 15 40.4		
44.9N 151.1E		
h ABOUT 045KM		
HHM	EP	11 25 51.2
	E▸P	26 04.2
EUR	E(P)	11 26 11.5
	E▸P	26 24.0
BCN	EP	11 26 39.0
	E▸P	26 53.7
TUC	EP	11 27 09.7
OCT 13		
HHM	EP	11 17 49.2
OCT 13		
FGU	EP	11 19 20.9
	ES	19 54.9
OCT 13		
H-11 22 58.6		
44.9N 150.7E		
h ABOUT 055KM		
COL	EP	11 30 19.0
HHM	EP	11 33 10.2
	E	33 12.2
EUR	EP	11 33 39.5
	E▸P	33 55.0
BCN	EP	11 33 58.3
	E(▸P)	34 14.3
TUC	E(P)	11 34 27.0
OCT 13		
H-11 35 18.1		
45.4N 151.6E		
h ABOUT 025KM		
HHM	EP	11 45 26.2
EUR	EP	11 45 57.7
	E▸P	46 06.7
TUC	E(P)	11 46 45.0
OCT 13		
FGU	EP	11 48 34.4
OCT 13		
FGU	E(P)	11 52 47.4
	IS	53 21.0
OCT 13		
H-12 05 48.3		
45.0N 150.8E		
h ABOUT 025KM		
HHM	EP	12 16 05.2
EUR	EP	12 16 32.5
	E▸P	16 40.5
BCN	E(P)	12 16 50.3
	E▸P	16 58.0
TUC	E(P)	12 17 21.0

Date and Station	Phase	Phase (GCT) h m s
OCT 13		
FGU	IP	12 20 03.3
OCT 13		
H-12 20 46.9		
44.8N 149.6E		
h ABOUT 045KM		
HHM	EP	12 31 04.2
TUC	E(P)	12 32 20.0
OCT 13		
H-12 29 39.2		
45.9N 151.8E		
h ABOUT 030KM		
COL	EP	12 36 51.0
HHM	EP	12 39 45.2
EUR	IP	12 40 15.0
BCN	EP	12 40 34.3
	E	40 41.0
TUC	EP	12 41 04.1
ALQ	EP	12 41 07.0
OCT 13		
H-12 34 18.7		
44.6N 149.3E		
h ABOUT 025KM		
COL	IP	12 41 49.3
HHM	EP	12 44 40.5
	E▸P	44 48.2
EUR	EP	12 45 09.0
TUC	E(P)	12 45 57.0
OCT 13		
H-12 40 44.2		
45.6N 150.5E		
h ABOUT 045KM		
HHM	E(P)	12 50 55.2
EUR	EP	12 51 23.1
	E	51 33.0
OCT 13		
H-12 42 13.0		
44.4N 149.4E		
h ABOUT 055KM		
COL	EP	12 49 41.0
HHM	EP	12 52 31.2
	E▸P	52 47.0
SLC	E(P)	12 53 01.2
BCN	EP	12 53 17.0
	I	53 23.8
	I▸P	53 34.5
FGU	E(P)	12 53 17.8
TUC	EP	12 53 46.0

Date and Station	Phase	Phase (GCT) h m s
ALQ	IP	12 53 52.0
	E▸P	54 10.0
OCT 13		
H-12 52 25.3		
44.6N 150.5E		
h ABOUT 030KM		
HHM	EP	13 02 42.3
OCT 13		
H-12 53 56.9		
44.6N 149.3E		
h ABOUT 025KM		
HHM	EP	13 04 19.0
TUC	EP	13 05 34.5
OCT 13		
H-12 58 21.6		
45.0N 150.1E		
h ABOUT 050KM		
SIT	EP	13 06 44.6
	E(▸P)	06 57.0
KIP	EP	13 07 00.0
	I(▸P)	07 14.0
UKI	EP	13 08 35.0
HHM	EP	13 08 35.2
SLC	IP	13 09 15.2
FGU	I(P)	13 09 23.2
BCN	IP	13 09 23.3
	I▸P	09 36.3
GCA	IP	13 09 30.1
TUC	EP	13 09 53.0
CSC	EP	13 11 11.0
OCT 13		
H-13 05 04.5		
46.3N 151.3E		
h ABOUT 033KM		
HHM	EP	13 15 11.2
	I	15 25.2
OCT 13		
H-13 21 00.3		
44.5N 149.3E		
h ABOUT 060KM		
HHM	EP	13 31 18.2
BCN	EP	13 32 06.8
	E	32 19.3
TUC	E(P)	13 32 34.0
OCT 13		
H-13 36 53.3		
44.9N 150.4E		
h ABOUT 050KM		
HHM	EP	13 47 07.2

Date and Station	Phase (GCT)
	h m s
OCT 13	
H-13 43 25.3	
44.4N 151.2E	
h ABOUT 050KM	
HHM EP	13 53 36.9
E▸P	53 50.2
EUR EP	13 54 05.7
E▸P	54 19.2
BCN EP	13 54 25.3
E▸P	54 38.3
TUC E(P)	13 54 54.0
OCT 13	
H-13 53 08.1	
44.3N 149.9E	
h ABOUT 040KM	
HHM E(P)	14 03 38.2
OCT 13	
H-13 54 24.8	
44.9N 151.7E	
h ABOUT 050KM	
HHM EP	14 04 33.7
E	04 47.0
EUR EP	14 05 02.5
E▸P	05 15.5
BCN E(P)	14 05 21.2
E▸P	05 34.0
GCA E(P)	14 05 29.5
TUC E(P)	14 05 51.0
ALQ EP	14 05 56.0
OCT 13	
H-14 03 56.3	
45.3N 151.0E	
h ABOUT 025KM	
COL IP	14 11 16.1
HHM EP	14 14 07.2
EUR EP	14 14 38.3
E	14 44.3
BCN E(P)	14 14 58.7
OCT 13	
HHM EP	14 15 15.7
TUC E(P)	14 16 10.0
OCT 13	
GUA EP	14 28 00.5
ES	28 16.5
OCT 13	
BCN EP	14 20 25.7
OCT 13	
H-14 26 11.9	
44.5N 149.5E	
h ABOUT 050KM	

Date and Station	Phase (GCT)
	h m s
KIP IP	14 34 53.2
HHM EP	14 36 30.2
SLC EP	14 37 08.7
BCN EP	14 37 16.7
E▸P	37 30.0
ALQ IP	14 37 51.0
OCT 13	
TUC IP D	14 37 16.0
OCT 13	
H-14 50 19.7	
17.6N 100.8W	
h ABOUT 088KM	
TUC E(P)	14 54 16.0
BCN EP	14 55 10.2
E	55 19.2
OCT 13	
GUA E(P)	15 18 20.0
OCT 13	
BUT IP	15 36 44.4
OCT 13	
BUT E(P)	15 39 38.4
E	40 18.4
OCT 13	
H-15 59 52.9	
45.6N 150.5E	
h ABOUT 035KM	
COL IP	16 07 11.1
SIT EP	16 08 13.0
KIP IP	16 08 32.2
I	08 54.0
ET	59 58.0
HON EP	16 08 34.0
E(S)	15 56.0
HHM EP	16 10 05.0
UKI EP	16 10 06.0
E	10 31.0
BUT IP	16 10 17.0
EUR IP	16 10 33.9
ES	19 09.5
EP'P'	39 08.9
SLC IP	16 10 43.9
FGU IP	16 10 52.0
BCN IP	16 10 52.7
I	11 15.3
I	11 25.0
ES	19 48.7
EP'P'	39 06.7
GCA IP	16 10 59.8
TUC IP	16 11 22.5

Date and Station	Phase (GCT)
	h m s
ALQ IP	16 11 27.0
I	11 59.0
OCT 13	
H-16 12 33.2	
45.1N 150.8E	
h ABOUT 030KM	
ALQ EP	16 24 13.0
OCT 13	
H-16 28 58.2	
44.9N 150.3E	
h ABOUT 040KM	
COL IP	16 36 21.6
HHM EP	16 39 13.2
E	39 26.0
TUC EP	16 40 31.6
ALQ EP	16 40 37.0
OCT 13	
SLC EP	16 39 03.7
BCN EP	16 39 06.7
OCT 13	
H-16 45 18.8	
18.4N 103.1W	
h ABOUT 050KM	
ALQ IP	16 49 12.5
E	49 26.0
ES	52 31.0
EL	54 06.0
GCA EP	16 49 49.3
BCN EP	16 49 51.7
E	50 03.9
EL	56 27.2
SLC E(P)	16 50 12.2
FGU E(P)	16 50 20.5
EUR EP	16 50 27.5
HHM E(P)	16 51 44.1
OCT 13	
TUC EP	16 48 35.3
E(S)	53 19.0
OCT 13	
GUA EP	16 57 49.3
OCT 13	
H-16 49 41.2	
44.5N 150.4E	
h ABOUT 040KM	
COL IP	16 57 06.0
HHM EP	16 59 57.2
BCN EP	17 00 44.2
E▸P	00 55.7
TUC EP	17 01 14.0

Date and Station	Phase (GCT)
	h m s
OCT 13	
H-17 25 55.4	
44.5N 150.8E	
h ABOUT 045KM	
COL IP	17 33 18.2
UKI EP	17 36 07.0
HHM EP	17 36 13.2
EUR EP	17 36 38.0
I▸P	36 50.0
SLC EP	17 36 51.7
BCN EP	17 36 57.2
E▸P	37 08.2
GCA E(P)	17 37 04.4
TUC E(P)	17 37 26.0
ALQ I	17 37 31.0
HON ES	17 41 38.0
EL	49 28.0
OCT 13	
COL EP	17 31 11.0
OCT 13	
BCN I(P)	17 37 35.7
I	37 59.7
OCT 13	
H-17 31 18.7	
44.3N 149.2E	
h ABOUT 045KM	
COL IP	17 38 48.6
HHM EP	17 41 39.2
BCN EP	17 42 26.7
E▸P	42 38.7
TUC EP	17 42 55.0
ALQ I	17 43 00.0
OCT 13	
HHM EP	17 42 19.2
BCN EP	17 43 05.7
OCT 13	
H-17 55 47.1	
43.2N 111.2W	
h ABOUT 030KM	
SLC EP	17 56 25.9
ES	56 59.7
FGU EP	17 56 28.7
I	56 32.9
IS	57 05.4
BUT EP	17 56 36.5
I(S)	57 14.5
HHM EP	17 57 08.2
E	58 33.2

Date and Station	Phase	Phase (GCT) h m s
GCA	E(P)	17 57 29.0
OCT 13		
H-17 56 27.0		
44.5N 150.2E		
h ABOUT 045KM		
COL	EP	18 03 52.0
BCN	E(P)	18 07 28.2
ALQ	E(P)	18 08 00.0
OCT 13		
ALQ	E	18 00 22.0
OCT 13		
H-18 10 55.2		
44.0N 150.0E		
h ABOUT 045KM		
HHM	EP	18 21 14.2
	E	21 28.1
EUR	EP	18 21 42.3
BCN	EP	18 22 01.4
GCA	E(P)	18 22 09.3
TUC	EP	18 22 31.0
ALQ	EP	18 22 36.0
OCT 13		
H-18 13 44.6		
44.2N 149.4E		
h ABOUT 055KM		
COL	EP	18 21 14.0
HHM	EP	18 24 04.0
	EpP	24 19.2
EUR	EP	18 24 32.5
	E	24 45.5
	I(pP)	24 50.0
BCN	EP	18 24 50.4
TUC	EP	18 25 19.5
	E	26 25.5
ALQ	EP	18 25 24.0
OCT 13		
H-18 14 57.5		
45.2N 150.8E		
h ABOUT 045KM		
HHM	EP	18 25 08.2
	EpP	25 22.2
BUT	EP	18 25 22.5
	IpP	25 36.0
BCN	EP	18 25 56.2
	EpP	26 09.2
ALQ	I(P)	18 26 31.0
	EpP	26 43.0
OCT 13		
COL	IP	18 15 02.1
HHM	EP	18 17 53.2
	E	55 06.2
EUR	EP	18 18 22.6
	I	18 35.6
BCN	EP	18 18 41.4
	E	18 54.2
TUC	E(P)	18 19 10.0
OCT 13		
H-18 34 48.2		
47.8N 148.1E		
h ABOUT 033KM		
COL	EP	18 41 57.0
OCT 13		
H-18 36 41.6		
44.9N 150.2E		
h ABOUT 050KM		
COL	IP	18 44 03.7
HHM	EP	18 46 55.2
OCT 13		
H-19 11 20.5		
44.2N 149.7E		
h ABOUT 025KM		
COL	IP	19 18 51.7
BCN	EP	19 22 29.7
ALQ	EP	19 23 02.0
OCT 13		
H-19 26 04.2		
45.7N 151.5E		
h ABOUT 030KM		
COL	IP	19 33 18.8
HHM	EP	19 36 13.2
EUR	EP	19 36 42.0
	EpP	36 52.0
ALQ	EP	19 37 39.0
OCT 13		
HHM	EP	19 27 [illegible]
	E	[illegible] 24.2
OCT 13		
H-19 27 38.2		
45.7N 151.7E		
h ABOUT 045KM		
KIP	EP	19 36 10.0
HHM	EP	19 37 44.0
UKI	EP	19 37 44.0
BUT	EP	19 37 59.0
SLC	IP	19 38 23.0
FGU	EP	19 38 31.8
BCN	IP	19 38 32.2
	E	38 40.7
GCA	EP	19 38 39.7
TUC	IP	19 39 02.2
ALQ	I(P)	19 39 07.0
	E	39 16.0
TUC	E(P)	19 39 60.0
OCT 13		
COL	IP	19 37 31.9
OCT 13		
H-19 41 20.5		
45.3N 151.4E		
h ABOUT 045KM		
COL	IP	19 48 35.5
HHM	EP	19 51 29.4
	EpP	51 42.2
BCN	E(P)	19 52 06.7
	E	52 29.7
ALQ	E(P)	19 52 47.0
OCT 13		
COL	IP	19 46 27.0
OCT 13		
H-19 52 16.9		
45.0N 151.0E		
h ABOUT 025KM		
COL	IP	19 59 38.0
OCT 13		
H-19 54 55.7		
44.5N 150.9E		
h ABOUT 035KM		
COL	IP	20 02 18.7
UKI	EP	20 05 08.0
HHM	E(P)	20 05 24.2
OCT 13		
COL	EP	19 58 08.0
OCT 13		
H-20 14 07.7		
44.4N 151.4E		
h ABOUT 025KM		
COL	EP	20 21 31.0
OCT 13		
FGU	EP	20 20 24.2
GCA	EP	20 20 45.2
OCT 13		
FGU	E(P)	20 25 36.7
	IS	26 10.2
OCT 13		
COL	EP	20 26 33.0
OCT 13		
H-20 27 38.2		
45.6N 151.7E		
h ABOUT 030KM		
COL	IP	20 34 51.5
HHM	EP	20 37 46.2
EUR	IP	20 38 15.7
	E	38 23.7
	E	38 28.0
BCN	EP	20 38 34.2
	E	38 49.0
TUC	EP	20 39 04.3
ALQ	E(P)	20 39 09.0
OCT 13		
H-20 35 53.3		
46.1N 151.8E		
h ABOUT 030KM		
COL	IP	20 43 03.0
BCN	EP	20 46 47.7
OCT 13		
COL	IP	20 46 02.5
OCT 13		
H-21 35 37.3		
45.3N 151.7E		
h ABOUT 045KM		
COL	IP	21 42 51.2
HHM	EP	21 45 45.2
BCN	EP	21 46 32.7
OCT 13		
COL	EP	[illegible] 18.0
OCT 13		
FGU	E(P)	21 49 55.1
ALQ	IP	21 51 31.0
	E	51 37.0
OCT 13		
H-21 50 02.4		
46.1N 151.8E		
h ABOUT 045KM		
COL	EP	21 57 12.0
HHM	E(P)	21 59 06.7
BCN	EP	22 00 54.7
	I(pP)	01 07.7
GCA	E(P)	22 01 01.0
TUC	E(P)	22 01 24.0
OCT 13		
H-21 55 00.8		
44.7N 152.1E		
h ABOUT 050KM		
COL	IP	22 02 17.3

Date and Station	Phase (GCT)
	h m s
SIT E(P)	22 03 16.8
KIP EP	22 03 29.0
HHM IP	22 05 09.2
BUT EP	22 05 12.9
I▸P	05 47.5
EUR IP	22 05 37.0
E	05 44.5
E	05 55.5
SLC IP	22 05 47.5
BCN IP	22 05 55.7
I	06 02.7
I▸P	06 09.7
E	07 54.2
FGU IP	22 05 56.3
GCA IP	22 06 03.0
TUC IP D	22 06 25.2
HON ES	22 10 26.0
EL	16 40.0
OCT 13	
BCN EP	21 59 28.2
OCT 13	
H-22 02 58.1	
45.1N 150.9E	
h ABOUT 045KM	
COL IP	22 10 17.1
HHM EP	22 13 09.2
E▸P	13 22.2
EUR EP	22 13 38.5
E▸P	13 51.5
BCN EP	22 13 57.9
TUC E(P)	22 14 27.0
ALQ EP	22 14 32.0
OCT 13	
COL IP	22 06 10.0
OCT 13	
H-22 25 37.0	
44.2N 149.3E	
h ABOUT 045KM	
COL IP	22 33 06.8
HHM EP	22 35 58.2
OCT 13	
FGU EP	22 30 54.6
OCT 13	
SLC E(P)	22 38 27.7
OCT 13	
SLC E(P)	22 40 35.2
ES	41 04.7

Date and Station	Phase (GCT)
	h m s
OCT 13	
H-23 05 33.5	
45.5N 151.8E	
h ABOUT 030KM	
COL IP	23 12 48.0
HHM IP	23 15 41.2
BCN EP	23 16 29.1
OCT 13	
H-23 08 48.8	
45.2N 151.4E	
h ABOUT 045KM	
COL IP	23 16 05.8
ALQ E(P)	23 20 20.0
OCT 13	
H-23 25 00.8	
44.4N 153.0E	
h ABOUT 050KM	
COL I(P)	23 32 10.6
BCN EP	23 35 54.5
E	36 05.9
TUC E(P)	23 36 24.0
ALQ EP	23 36 27.0
OCT 13	
H-23 52 22.8	
44.5N 150.1E	
h ABOUT 050KM	
KIP IP	24 01 01.4
HON EP	24 01 03.0
ES	08 10.0
HHM EP	24 02 38.2
E▸P	02 52.2
E	03 09.2
UKI E(P)	24 02 50.0
BUT EP	24 02 54.6
EUR EP	24 03 06.3
E▸P	03 19.8
SLC EP	24 03 18.6
BCN EP	24 03 25.1
E	03 53.6
E	04 12.3
GCA E(P)	24 03 33.8
TUC EP	24 03 55.0
ALQ EP	24 04 01.0
E▸P	04 13.0
OCT 14	
H-00 03 04.1	
45.0N 150.9E	
h ABOUT 060KM	
COL IP	00 10 20.9

Date and Station	Phase (GCT)
	h m s
HHM EP	00 13 19.2
E	13 28.2
EUR EP	00 13 42.0
E	13 58.0
BCN EP	00 14 00.6
TUC E(P)	00 14 30.0
ALQ EP	00 14 36.0
OCT 14	
H-00 04 48.3	
46.1N 151.4E	
h ABOUT 060KM	
COL IP	00 12 02.3
HHM IP	00 14 52.1
I	14 57.8
BCN EP	00 15 40.6
OCT 14	
H-00 19 17.9	
44.5N 150.5E	
h ABOUT 045KM	
COL IP	00 26 41.2
ALQ EP	00 30 54.0
OCT 14	
H-00 52 04.0	
46.6N 150.6E	
h ABOUT 035KM	
COL EP	00 59 13.0
BOZ E(P)	01 02 26.0
I	02 49.0
OCT 14	
H-01 19 17.1	
44.3N 151.2E	
h ABOUT 055KM	
COL IP	01 26 38.5
HHM E(P)	01 29 36.1
BOZ EP	01 29 49.0
EUR EP	01 29 58.3
E▸P	30 12.8
TUC E(P)	01 30 46.0
ALQ E(P)	01 30 52.0
OCT 14	
H-01 35 50.8	
44.4N 149.8E	
h ABOUT 050KM	
COL EP	01 43 17.0
BOZ EP	01 46 28.0
OCT 14	
HHM EP	01 36 38.2

Date and Station	Phase (GCT)
	h m s
OCT 14	
H-02 15 50.0	
47.9N 150.0E	
h ABOUT 045KM	
COL EP	02 22 51.0
OCT 14	
H-02 18 38.9	
44.4N 150.3E	
h ABOUT 045KM	
COL EP	02 26 04.0
OCT 14	
COL EP	02 37 47.0
OCT 14	
BOZ EP	02 47 04.0
ES	47 43.0
OCT 14	
H-03 21 56.1	
44.9N 151.8E	
h ABOUT 050KM	
COL IP	03 29 12.2
HHM EP	03 32 04.6
BCN E(P)	03 33 05.6
OCT 14	
H-03 31 07.8	
45.9N 151.8E	
h ABOUT 025KM	
COL IP	03 38 20.0
HHM EP	03 41 15.1
EUR IP	03 41 44.5
E	41 52.5
BCN EP	03 42 03.1
E	42 11.6
TUC EP	03 42 33.5
ALQ EP	03 42 35.0
OCT 14	
H-04 06 01.7	
44.9N 150.2E	
h ABOUT 050KM	
COL IP	04 13 23.8
SIT E(P)	04 14 18.5
KIP IP	04 14 41.9
I▸P	14 56.0
HHM IP	04 16 16.0
I▸P	16 29.1
BUT EP	04 16 30.1
BOZ IP	04 16 35.8
EUR IP	04 16 44.5
I	16 52.5
I▸P	16 58.0

Date and Station	Phase	Phase (GCT) h m s
SLC	EP	04 16 55.6
BCN	EP	04 17 03.1
	E▸P	17 16.0
	E	17 30.6
FGU	E(P)	04 17 03.1
GCA	EP	04 17 10.6
TUC	EP	04 17 32.0
ALQ	IP	04 17 37.0
	E(▸P)	17 52.0
OCT 14		
H-04 11 14.0		
44.7N 150.6E		
h ABOUT 045KM		
COL	IP	04 18 36.8
KIP	EP	04 19 51.0
HHM	IP	04 21 28.1
	E▸P	21 41.1
EUR	IP	04 21 56.4
	E▸P	22 09.0
	E	22 14.0
SLC	EP	04 22 07.7
FGU	EP	04 22 14.1
BCN	IP	04 22 15.0
	E▸P	22 27.0
	E	22 33.0
GCA	EP	04 22 22.4
TUC	EP	04 22 44.5
	E(▸P)	22 59.0
	E	24 45.0
ALQ	IP	04 22 48.0
	E▸P	23 00.0
OCT 14		
GCA	IP	04 11 18.1
OCT 14		
H-04 13 03.1		
44.9N 150.7E		
h ABOUT 040KM		
COL	IP	04 20 25.7
KIP	EP	04 21 40.0
BCN	IP	04 24 04.1
	E▸P	24 15.6
	EsP	24 23.0
ALQ	E(P)	04 24 37.0
	E▸P	24 50.0
OCT 14		
BOZ	IP	04 31 47.5
	I	32 00.0

Date and Station	Phase	Phase (GCT) h m s
OCT 14		
H-04 34 30.6		
44.4N 151.5E		
h ABOUT 025KM		
COL	EP	04 41 55.0
BOZ	IP	04 45 03.0
EUR	EP	04 45 12.6
OCT 14		
HHM	IP	04 51 04.1
COL	EP	04 52 22.0
OCT 14		
BOZ	EP	05 03 16.0
	ES	03 45.0
FGU	EP	05 03 24.0
	IS	03 59.0
OCT 14		
COL	IP	05 04 22.8
HHM	EP	05 06 44.1
OCT 14		
ALQ	IP	05 20 46.0
	I▸P	21 00.0
HHM	EP	05 21 03.0
OCT 14		
H-05 24 12.3		
44.5N 151.0E		
h ABOUT 055KM		
HHM	EP	05 34 24.1
	E▸P	34 39.1
BOZ	IP	05 34 32.0
BUT	EP	05 34 39.6
BCN	EP	05 35 11.1
	E▸P	35 26.1
FGU	E(P)	05 35 12.0
GCA	EP	05 35 19.0
TUC	EP	05 35 41.0
	E▸P	35 56.0
OCT 14		
H-05 39 17.1		
02.3S 077.6W		
h ABOUT 033KM		
SJP	EP	05 44 26.0
BHP	I	05 45 22.0
ALQ	IP	05 47 37.0
	E	47 57.0
TUC	EP	05 47 45.0
BCN	EP	05 48 23.0
FGU	EP	05 48 25.7

Date and Station	Phase	Phase (GCT) h m s
EUR	EP	05 48 44.0
BOZ	IP	05 48 58.0
HHM	IP	05 49 20.0
COL	EP	05 51 43.0
OCT 14		
H-05 42 55.3		
44.8N 150.6E		
h ABOUT 050KM		
COL	IP	05 50 15.9
	E(S)	55 48.0
OCT 14		
HHM	E(P)	05 45 42.1
OCT 14		
ALQ	EP	06 12 04.0
OCT 14		
ALQ	EP	06 19 27.0
COL	EP	06 21 03.0
OCT 14		
ALQ	IP	06 21 05.0
	E▸P	21 17.0
COL	EP	06 25 50.0
OCT 14		
COL	IP	06 22 37.1
HHM	IP	06 25 26.3
ALQ	EP	06 25 42.0
BCN	EP	06 26 18.5
TUC	E(P)	06 26 55.0
OCT 14		
H-06 26 11.7		
52.8N 167.1W		
h ABOUT 080KM		
COL	EP	06 29 48.0
SIT	E(P)	06 30 28.3
HHM	IP	06 32 45.2
BUT	EP	06 33 00.6
EUR	IP	06 33 16.3
	I	33 30.2
BCN	EP	06 33 40.0
FGU	E(P)	06 33 42.4
GCA	IP	03 33 51.3
TUC	IP	06 34 20.0
SJP	IP	06 38 26.0
	I	38 38.5

Date and Station	Phase	Phase (GCT) h m s
OCT 14		
H-06 29 01.5		
44.1N 149.4E		
h ABOUT 035KM		
COL	IP	06 36 32.4
HHM	E(P)	06 39 23.1
TUC	E(P)	06 40 39.0
OCT 14		
HHM	IP	06 34 24.1
	E	34 37.6
COL	EP	06 35 31.0
OCT 14		
COL	EP	06 44 40.0
ALQ	E(P)	06 49 12.0
OCT 14		
COL	EP	06 50 33.0
OCT 14		
H-06 59 56.6		
18.8S 169.3E		
h ABOUT 250KM		
COL	IP	07 12 25.0
BCN	EP	07 12 30.0
TUC	IP	07 12 37.0
GCA	E(P)	07 12 43.2
ALQ	E(P)	07 12 56.0
OCT 14		
SJP	EP	07 02 11.8
BOZ	EP	07 08 28.0
OCT 14		
H-07 15 58.0		
44.6N 150.3E		
h ABOUT 045KM		
COL	IP	07 23 22.9
HHM	EP	07 26 14.1
	E▸P	26 26.1
BUT	EP	07 26 27.7
BOZ	IP	07 26 34.0
EUR	EP	07 26 42.2
	E▸P	26 54.0
BCN	EP	07 27 01.0
	E▸P	27 12.6
ALQ	IP	07 27 36.0
	E▸P	27 47.0
OCT 14		
SIT	EP	07 26 40.6
	IL	27 10.0
HHM	EP	07 30 09.2
	E	35 08.0

Date and Station	Phase (GCT)
	h m s
OCT 14	
SIT E(P)	07 27 52.1
IL	28 21.5
OCT 14	
SIT EP	07 31 36.0
IS	32 04.5
BOZ IP	07 33 08.5
OCT 14	
H-07 53 42.7	
45.3N 151.0E	
h ABOUT 035KM	
COL IP	08 01 00.3
OCT 14	
H-07 54 33.9	
44.8N 151.2E	
h ABOUT 055KM	
COL IP	08 01 52.6
HHM EP	08 04 44.2
BUT EP	08 04 58.9
E▸P	05 14.2
BOZ IP	08 05 04.2
▸P	05 19.0
EUR IP	08 05 13.2
I▸P	05 27.5
I	05 41.0
BCN EP	08 05 31.0
E▸P	05 46.0
E	05 57.0
FGU E(P)	08 05 32.2
GCA IP	08 05 39.6
TUC EP	08 06 01.5
E▸P	06 16.4
ALQ IP	08 06 06.5
I▸P	06 21.5
OCT 14	
SIT EP	08 17 48.7
E	18 14.5
BOZ EP	08 19 50.1
OCT 14	
FGU IP	08 26 03.3
IS	26 28.8
OCT 14	
H-08 31 23.0	
42.2N 108.3W	
h ABOUT 030KM	
FGU IP	08 31 49.1
IS	32 14.8
SLC E(P)	08 32 00.8
BOZ EP	08 32 26.2
OCT 14	
BOZ EP	08 35 30.2

Date and Station	Phase (GCT)
	h m s
OCT 14	
H-08 43 56.6	
44.7N 150.7E	
h ABOUT 050KM	
COL IP	08 51 18.0
HHM EP	08 54 09.0
BCN E(P)	08 55 11.0
ALQ E(P)	08 55 46.0
OCT 14	
HHM IP	09 12 22.2
BCN EP	09 12 26.5
E	12 39.0
OCT 14	
COL EP	09 17 32.0
OCT 14	
H-09 29 07.1	
45.5N 151.7E	
h ABOUT 040KM	
COL IP	09 36 20.3
HHM EP	09 39 13.0
EUR EP	09 39 43.7
E▸P	39 55.2
ALQ E(P)	09 40 37.0
OCT 14	
COL EP	09 32 20.0
OCT 14	
HHM IP	09 42 22.8
I	42 33.0
OCT 14	
GUA E(P)	09 42 25.0
COL EP	09 43 05.0
OCT 14	
H-10 01 27.2	
45.1N 150.8E	
h ABOUT 045KM	
COL IP	10 08 46.3
HHM EP	10 11 39.0
OCT 14	
SIT EP	10 07 41.4
HHM IP	10 08 13.0
OCT 14	
HHM EP	10 16 05.0
BUT E(P)	10 16 41.7
OCT 14	
H-10 24 36.9	
45.7N 150.2E	
h ABOUT 040KM	
COL IP	10 31 55.0

Date and Station	Phase (GCT)
	h m s
OCT 14	
COL EP	10 30 07.0
OCT 14	
COL EP	10 34 01.0
ALQ E(P)	10 38 33.0
OCT 14	
SIT EP	10 55 41.4
HHM IP	10 57 32.0
OCT 14	
H-11 13 19.4	
45.0N 150.9E	
h ABOUT 045KM	
COL IP	11 20 38.2
BOZ EP	11 23 50.5
ALQ E(P)	11 24 55.0
OCT 14	
SIT EP	11 18 08.2
IL	18 36.4
OCT 14	
H-11 23 13.5	
45.5N 151.7E	
h ABOUT 050KM	
COL IP	11 30 26.3
BOZ EP	11 33 40.0
I▸P	33 53.0
BCN E(P)	11 34 21.6
ALQ E(P)	11 34 42.0
OCT 14	
COL EP	11 27 27.0
OCT 14	
COL EP	11 52 10.0
OCT 14	
H-11 56 31.0	
45.4N 150.9E	
h ABOUT 045KM	
COL IP	12 03 47.1
OCT 14	
HHM EP	12 03 50.0
OCT 14	
COL IP	12 11 38.2
GUA E(P)	12 12 15.5
E	12 31.0
HHM EP	12 13 56.6
OCT 14	
H-12 11 42.5	
45.6N 152.4E	
h ABOUT 040KM	
COL IP	12 18 52.5

Date and Station	Phase (GCT)
	h m s
BOZ IP	12 22 08.0
I▸P	22 18.5
TUC E(P)	12 23 06.0
ALQ E(P)	12 23 10.0
OCT 14	
COL IP	12 36 04.3
OCT 14	
H-12 44 54.1	
44.7N 150.2E	
h ABOUT 050KM	
BOZ EP	12 55 29.0
OCT 14	
COL EP	12 45 54.0
OCT 14	
H-13 21 45.2	
44.8 151.0E	
h ABOUT 060KM	
COL IP	13 29 02.7
SIT EP	13 30 03.8
I	30 21.6
KIP IP	13 30 18.0
E	30 36.0
HON EP	13 30 19.0
ES	37 04.0
HHM IP	13 31 54.2
I(▸P)	32 11.0
UKI IP	13 31 56.0
E▸P	32 10.0
E	32 29.0
BUT IP	13 32 09.8
▸P	32 24.7
BOZ IP	13 32 15.0
I	32 33.0
EUR IP	13 32 24.0
I(▸P)	32 40.0
I(PP)	35 04.0
ES	41 04.5
E	43 16.0
SLC IP	13 32 34.4
FGU IP	13 32 41.8
BCN IP	13 32 42.7
I▸P	32 58.0
RCD IP	13 32 50.0
TUC IP D	13 33 12.3
E▸P	33 28.0
ALQ IP	13 33 17.0
E▸P	33 33.0
WAS E(P)	13 33 21.5
E▸P	33 37.5
E	38 37.5

Date and Station	Phase	(GCT) h m s
OCT 14		
H-13 53 17.4		
45.0N 151.1E		
h ABOUT 030KM		
COL	IP	14 00 37.9
BOZ	EP	14 03 49.0
EUR	EP	14 03 58.6
BCN	EP	14 04 18.0
TUC	E(P)	14 04 47.0
OCT 14		
HHM	EP	14 00 04.0
BCN	E(P)	14 01 10.8
OCT 14		
COL	EP	14 09 00.4
OCT 14		
COL	EP	14 34 55.0
OCT 14		
COL	EP	14 52 30.0
OCT 14		
HHM	IP	15 16 12.5
	I	17 18.0
	I	18 23.0
OCT 14		
HHM	E(P)	15 26 15.0
COL	EP	15 29 39.0
OCT 14		
H-15 31 39.4		
1.6N 127.6E		
h ABOUT 231KM		
HHM	EP'	15 49 47.2
	E	50 06.0
OCT 14		
GCA	IP	15 32 50.0
OCT 14		
GUA	E(P)	15 41 48.0
OCT 14		
BOZ	EP	15 48 05.0
OCT 14		
COL	EP	15 51 59.0
BUT	EP	15 51 56.7
OCT 14		
COL	IP	16 16 36.3
OCT 14		
COL	IP	16 18 50.0
OCT 14		
ALQ	E(P)	16 49 55.0
OCT 14		
FGU	EP	17 27 58.9
	ES	28 19.9
OCT 14		
FGU	EP	17 41 24.6
	IS	41 59.6
OCT 14		
H-17 50 15.3		
45.2N 151.3E		
h ABOUT 060KM		
COL	IP	17 57 30.2
HHM	E(P)	18 00 29.0
BOZ	IP	18 00 43.5
EUR	IP	18 00 52.0
	IpP	01 07.5
	IsP	01 17.0
BCN	EP	18 01 11.0
RCD	EP	18 01 17.0
TUC	E(P)	18 01 41.0
ALQ	EP	18 01 45.0
OCT 14		
H-17 56 17.8		
45.0N 151.3E		
h ABOUT 030KM		
COL	IP	18 03 36.7
OCT 14		
H-18 02 56.3		
44.8N 152.2E		
h ABOUT 040KM		
COL	EP	18 10 15.0
OCT 14		
GUA	E(P)	18 29 19.0
OCT 14		
HHM	E(P)	18 34 11.0
OCT 14		
FGU	E(P)	20 09 10.8
OCT 14		
H-20 46 16.8		
44.8N 152.3E		
h ABOUT 040KM		
EUR	EP	20 56 53.0
OCT 14		
HHM	EP	20 51 38.0
OCT 14		
H-21 08 00.1		
45.0N 150.5E		
h ABOUT 045KM		
COL	IP	21 15 20.0
HHM	IP	21 18 13.0
	IpP	18 24.0
EUR	IP	21 18 41.5
	EpP	18 53.6
FGU	EP	21 19 00.2
BCN	EP	21 19 01.0
	EpP	19 12.8
GCA	EP	21 19 07.7
TUC	EP	21 19 29.8
ALQ	EP	21 19 34.0
	EpP	19 47.0
OCT 14		
H-21 19 54.7		
44.3N 149.3E		
h ABOUT 045KM		
COL	IP	21 27 24.0
HHM	EP	21 30 14.5
	I	31 09.0
EUR	EP	21 30 43.3
	IpP	30 56.0
BCN	EP	21 31 02.5
	EpP	31 15.0
GCA	E(P)	21 31 22.4
TUC	E(P)	21 31 29.0
	EpP	31 44.0
ALQ	EP	21 31 36.0
OCT 14		
RCD	IP	21 22 07.0
OCT 14		
COL	IP	21 23 58.3
EUR	EP	21 24 02.1
	E	24 14.6
OCT 14		
TUC	EP	21 26 18.0
ALQ	IP	21 26 49.4
OCT 14		
EUR	EP	21 39 52.5
OCT 14		
H-21 43 46.7		
44.5N 149.2E		
h ABOUT 060KM		
COL	IP	21 51 13.5
TUC	IP	21 55 21.0
ALQ	EP	21 55 25.5
OCT 14		
RCD	IP	21 44 00.0
OCT 14		
H-22 06 13.7		
44.0N 149.3E		
h ABOUT 033KM		
COL	EP	22 13 50.0
OCT 14		
H-22 08 27.1		
17.0S 173.9E		
h ABOUT 033KM		
COL	EP	22 21 08.0
ALQ	EP	22 21 35.0
OCT 14		
FGU	EP	22 22 14.5
	IS	22 35.3
EUR	IP	22 23 15.6
	I	23 31.8
OCT 14		
H-22 35 31.7		
44.5N 150.6E		
h ABOUT 045KM		
COL	IP	22 42 54.6
HHM	IP	22 45 46.0
	E	46 13.0
BOZ	EP	22 46 06.0
GCA	E(P)	22 46 40.4
TUC	EP	22 47 03.0
ALQ	EP	22 47 09.0
OCT 14		
BCN	EP	22 40 26.0
	EL	41 02.2
OCT 14		
FGU	EP	22 58 50.7
EUR	EP	22 59 14.7
	EL	59 40.7
OCT 14		
H-22 59 05.4		
17.0S 173.8E		
h ABOUT 033KM		
COL	EP	23 11 46.0
ALQ	EP	23 12 12.0
OCT 14		
HHM	EP	23 09 12.0
	E	10 10.0
OCT 15		
H-00 38 53.0		
45.0N 151.8E		
h ABOUT 045KM		
COL	IP	00 46 10.1
EUR	EP	00 49 29.5
OCT 15		
H-00 42 52.4		
45.1N 150.9E		
h ABOUT 045KM		
COL	EP	00 50 10.5

Date and Station	Phase (GCT)
	h m s
EUR EP	00 53 32.0
EpP	53 44.5
OCT 15	
H-00 47 41.0	
43.2N 150.2E	
h ABOUT 040KM	
BOZ EP	00 58 23.0
EUR EP	00 58 32.2
EpP	58 43.7
OCT 15	
COL EP	00 56 44.0
EUR E(P)	01 00 01.3
E	00 16.5
BCN EP	01 00 11.4
BOZ EP	01 00 25.0
OCT 15	
HHM EP	01 35 10.0
FGU E(P)	01 35 34.4
ES	36 07.4
OCT 15	
GUA EP	02 25 54.8
COL EP	02 33 29.0
OCT 15	
COL EP	02 50 07.0
OCT 15	
COL EP	03 21 54.0
OCT 15	
TUC E(P)	04 03 32.0
OCT 15	
H-04 33 44.3	
48.9N 151.7E	
h ABOUT 033KM	
COL EP	04 40 36.0
OCT 15	
TUC EP	04 35 44.0
ALQ IP	04 35 44.7
OCT 15	
ALQ IP	04 39 45.0
OCT 15	
COL IP	04 50 56.0
OCT 15	
H-04 56 26.6	
44.5N 149.6E	
h ABOUT 050KM	
COL IP	05 03 53.9
TUC E(P)	05 08 01.0
ALQ EP	05 08 06.0

Date and Station	Phase (GCT)
	h m s
OCT 15	
H-05 10 34.2	
44.3N 151.4E	
h ABOUT 045KM	
COL IP	05 17 56.2
EUR EP	05 21 15.5
EpP	21 28.5
BOZ E(P)	05 21 19.0
I	21 25.0
BCN EP	05 21 33.1
EpP	21 47.8
OCT 15	
COL EP	05 15 00.0
OCT 15	
COL EP	05 43 56.0
OCT 15	
FGU E(P)	06 04 29.4
OCT 15	
H-06 49 37.8	
42.2N 152.3E	
h ABOUT 040KM	
COL E(P)	06 57 06.0
BCN E(P)	07 00 47.0
ALQ E(P)	07 01 19.0
HON E	07 05 38.0
EL	11 30.0
OCT 15	
BOZ EP	06 59 09.0
OCT 15	
H-07 06 59.9	
20.5S 173.9W	
h ABOUT 033KM	
BCN EP	07 19 04.6
TUC EP	07 19 09.0
GCA EP	07 19 20.2
ALQ IP	07 19 32.0
E	28 12.0
E(S)	29 16.0
E(SS)	34 57.0
FGU EP	07 19 37.8
COL EP	07 19 46.0
OCT 15	
H-07 26 09.4	
59.0N 136.8W	
h ABOUT 033KM	
SIT EP	07 26 40.6
IL	27 10.0
COL IP	07 28 04.1
BOZ E(P)	07 30 33.0

Date and Station	Phase (GCT)
	h m s
BUT EP	07 30 36.8
EL	36 30.8
EUR EP	07 31 18.0
ALQ EP	07 32 29.0
TUC EP	07 32 34.0
OCT 15	
SIT E(P)	07 27 52.1
IL	28 21.5
ALQ E(P)	07 33 41.0
OCT 15	
SIT EP	07 31 36.0
IS	32 04.5
OCT 15	
BOZ IP	07 57 41.6
EUR EP	07 59 09.8
E	59 23.0
OCT 15	
H-08 00 11.5	
45.0N 151.1E	
h ABOUT 040KM	
COL IP	08 07 31.5
EUR EP	08 10 52.0
EpP	11 03.5
EsP	11 08.4
BCN EP	08 11 11.6
EpP	11 23.0
GCA E(P)	08 11 18.3
ALQ EP	08 11 45.0
OCT 15	
TUC E(P)	08 17 48.0
OCT 15	
SIT EP	08 17 48.7
E	18 14.5
OCT 15	
EUR EP	08 28 01.4
OCT 15	
FGU E(P)	08 55 54.5
ES	05 56 27.0
OCT 15	
COL EP	08 58 55.0
OCT 15	
H-09 02 08.3	
45.3N 150.2E	
h ABOUT 040KM	
COL IP	09 09 29.5
BOZ EP	09 12 44.0
EUR IP	09 12 50.3
SLC E(P)	09 13 01.6

Date and Station	Phase (GCT)
	h m s
BCN EP	09 13 08.9
EpP	13 20.9
FGU EP	09 13 09.6
GCA EP	09 13 17.6
TUC EP	09 13 39.0
ALQ IP	09 13 43.7
OCT 15	
GUA EP	09 09 23.0
OCT 15	
H-09 14 34.3	
44.3N 149.5E	
h ABOUT 033KM	
COL EP	09 22 05.0
EUR E(P)	09 25 23.9
E	25 29.0
I	25 37.7
OCT 15	
H-09 32 08.7	
45.2N 150.2E	
h ABOUT 040KM	
COL IP	09 39 30.9
BUT EP	09 42 36.8
BOZ IP	09 42 42.0
EUR IP	09 42 52.0
SLC E(P)	09 43 02.6
BCN IP	09 43 10.6
EpP	43 21.0
FGU IP	09 43 10.6
GCA IP	09 43 18.6
TUC EP	09 43 39.6
ALQ IP	09 43 45.0
E	10 06 04.0
E	07 42.0
OCT 15	
BOZ EP	09 39 13.0
OCT 15	
EUR EP	09 45 15.5
EL	45 45.8
BOZ EP	09 46 47.0
TUC E(P)	09 46 56.0
OCT 15	
RCD IP	09 53 10.0
OCT 15	
H-09 59 30.1	
67.2N 018.4W	
h ABOUT 033KM	
COL IP	10 07 33.0

Date and Station	Phase	Phase (GCT) h m s
CSC	E	10 08 08.0
BUT	EP	10 08 22.8
BOZ	IP	10 08 25.0
FGU	IP	10 08 49.0
SLC	EP	10 08 56.1
EUR	IP C	10 09 15.9
ALQ	IP	10 09 18.9
	E	17 36.0
	E	20 56.0
GCA	EP	10 09 20.0
BCN	EP	10 09 37.5
TUC	IP	10 09 46.4
OCT 15		
SIT	EP	10 07 41.4
OCT 15		
WAS	E(P)	10 18 42.0
OCT 15		
EUR	EP	10 32 09.9
OCT 15		
H-10 47 12.6		
44.6N 149.0E		
h ABOUT 050KM		
COL	IP	10 54 41.2
SIT	EP	10 55 41.4
BUT	EP	10 57 47.0
	EpP	57 58.8
BOZ	IP	10 57 51.0
EUR	IP D	10 58 00.5
SLC	IP	10 58 11.1
BCN	EP	10 58 18.8
	E	58 26.0
	E	59 33.0
FGU	IP	10 58 19.0
GCA	IP	10 58 27.5
TUC	IP	10 58 48.6
	E	59 06.0
ALQ	IP	10 58 53.0
	E	59 10.0
OCT 15		
GCA	E(P)	11 04 46.8
OCT 15		
SIT	EP	11 18 08.2
	IL	18 36.4
COL	EP	11 20 00.0
OCT 15		
EUR	EP	11 24 58.5
OCT 15		
EUR	EP	11 30 11.0
FGU	EP	11 30 45.4
OCT 15		
H-11 53 45.5		
45.1N 151.9E		
h ABOUT 055KM		
COL	IP	12 00 58.6
BOZ	IP	12 04 11.0
EUR	EP	12 04 20.2
	EpP	04 35.1
	E	04 51.5
SLC	E(P)	12 04 31.0
BCN	EP	12 04 38.5
	EpP	04 53.0
	E	05 05.0
FGU	E(P)	12 04 43.3
RCD	E(P)	12 04 46.0
TUC	E(P)	12 05 09.0
ALQ	IP	12 05 15.0
OCT 15		
ALQ	IP	12 03 14.5
OCT 15		
H-12 03 48.7		
45.1N 151.8E		
h ABOUT 045KM		
COL	IP	12 11 04.0
BOZ	IP	12 14 17.0
EUR	EP	12 14 25.4
	IpP	14 38.9
BCN	EP	12 14 44.2
	E	14 53.7
TUC	E(P)	12 15 14.0
ALQ	EP	12 15 19.0
OCT 15		
BOZ	IP	12 07 25.0
FGU	EP	12 07 30.3
	IS	08 04.9
EUR	E(P)	12 08 20.4
OCT 15		
EUR	EP	12 15 37.9
	E	15 51.5
OCT 15		
EUR	E(P)	12 19 40.0
OCT 15		
EUR	EP	12 20 46.4
OCT 15		
COL	EP	12 30 53.1
EUR	EP	12 34 14.5
OCT 15		
COL	EP	12 32 58.1
EUR	EP	12 36 17.4
OCT 15		
BOZ	EP	12 49 05.0
OCT 15		
BOZ	IP	12 51 08.0
OCT 15		
COL	EP	13 42 30.0
TUC	E(P)	13 44 21.0
OCT 15		
H-13 56 19.1		
17.1S 173.9E		
h ABOUT 033KM		
BCN	EP	14 08 57.5
EUR	EP	14 08 59.5
ALQ	EP	14 09 25.0
OCT 15		
WAS	ES	14 03 32.0
OCT 15		
COL	EP	14 42 37.0
OCT 15		
H-15 15 10.6		
44.3N 114.8W		
h ABOUT 033KM		
BUT	EP	15 15 47.0
	I	15 52.0
	EL	16 21.0
BOZ	IP	15 15 50.0
	IL	16 17.0
SLC	E(P)	15 16 13.0
	E(S)	17 09.5
EUR	EP	15 16 23.0
	I	16 30.0
FGU	IP	15 16 26.5
	I	16 32.0
BCN	EP	15 17 15.0
	EL	19 24.5
OCT 15		
BOZ	IP	15 25 37.0
	ES	26 12.0
OCT 15		
COL	EP	16 01 34.0
OCT 15		
EUR	E(P)	16 09 57.6
	E	10 10.7
OCT 15		
H-16 16 05.7		
45.6N 150.2E		
h ABOUT 033KM		
COL	IP	16 23 24.5
BOZ	EP	16 26 36.0
EUR	EP	16 26 48.0
	E	27 04.5
ALQ	E(P)	16 27 41.0
OCT 15		
BOZ	E(P)	16 20 38.0
OCT 15		
EUR	EP	16 41 18.5
	E	41 31.0
OCT 15		
H-17 15 55.7		
44.0N 149.3E		
h ABOUT 050KM		
COL	EP	17 23 27.0
EUR	E(P)	17 26 45.0
BCN	E(P)	17 27 11.0
	E	27 36.5
ALQ	E(P)	17 27 37.0
OCT 15		
ALQ	E(P)	17 18 03.0
OCT 15		
H-17 35 00.8		
44.8N 150.4E		
h ABOUT 040KM		
COL	EP	17 42 24.0
BOZ	EP	17 45 34.2
EUR	EP	17 45 43.5
	EpP	45 55.0
OCT 15		
ALQ	E(P)	17 47 03.0
OCT 15		
H-17 54 04.3		
45.2N 151.3E		
h ABOUT 029KM		
COL	IP	18 01 23.5
EUR	EP	18 04 44.4
FGU	E(P)	18 04 59.6
OCT 15		
H-18 23 57.8		
45.3N 151.0E		
h ABOUT 035KM		
BUT	E(P)	18 34 22.0
BOZ	EP	18 34 30.0
EUR	EP	18 34 38.0
SLC	E(P)	18 34 51.9
BCN	EP	18 35 00.5

Date and Station	Phase (GCT)
	h m s
GCA E(P)	18 35 08.2
ALQ EP	18 35 31.0
HON ES	18 39 38.0
EL	45 38.0
OCT 15	
COL IP	18 28 59.5
OCT 15	
BOZ EP	18 58 11.0
E	58 42.0
EUR EP	18 58 56.0
I	59 08.5
OCT 15	
EUR E(P)	19 26 48.0
E	26 57.3
OCT 15	
EUR EP	19 38 52.0
ES	39 10.0
OCT 15	
EUR E(P)	19 59 54.0
E(S)	20 00 36.0
OCT 15	
FGU EP	20 15 52.2
OCT 15	
H-20 41 30.2	
45.4N 151.1E	
h ABOUT 050KM	
COL EP	20 48 46.0
BOZ EP	20 51 56.0
EUR EP	20 52 07.5
E▸P	52 20.5
FGU E(P)	20 52 19.7
I	52 48.2
BCN EP	20 52 21.4
E	52 27.4
GCA EP	20 52 34.9
TUC E(P)	20 52 54.0
OCT 15	
BOZ EP	20 42 10.0
ES	42 44.0
OCT 15	
H-21 44 58.0	
3.0S 129.9E	
h ABOUT 027KM	
GUA IP	21 49 53.5
I	50 01.0
COL EP	21 57 55.0
EUR EP'	22 03 32.0
TUC EP'	22 03 42.0
ALQ EP'	22 03 47.0

Date and Station	Phase (GCT)
	h m s
EUR IP'	22 04 03.5
OCT 15	
ALQ E(P)	21 46 50.0
OCT 15	
BOZ IP	21 52 05.0
I	53 15.0
ALQ E(P)	21 53 01.0
COL EP	21 54 34.0
OCT 15	
BOZ EP	21 57 48.0
EUR EP	21 57 56.5
E	58 11.0
OCT 15	
EUR E(P)	21 59 44.4
OCT 15	
FGU IP	22 04 18.0
I	04 24.8
IS	04 45.3
OCT 15	
SJP E(P)	22 05 30.0
OCT 15	
EUR EP'	22 14 42.5
OCT 15	
BOZ EP	22 27 26.0
OCT 15	
H-22 41 44.7	
46.8N 152.4E	
h ABOUT 035KM	
COL EP	22 48 49.0
EUR IP	22 52 14.9
E▸P	52 25.0
OCT 15	
ALQ E(P)	23 00 53.0
OCT 15	
BUT E(P)	23 08 57.0
BOZ EP	23 09 01.5
IL	09 42.0
EUR I(P)	23 09 38.0
I(S)	10 33.5
OCT 15	
H-23 09 00.5	
45.9N 149.9E	
h ABOUT 040KM	
EUR EP	23 19 42.0
OCT 15	
FGU EP	23 10 30.5
OCT 15	
EUR EP	23 14 35.5
OCT 15	
EUR I(P)	23 27 16.0
EL	28 16.8

Date and Station	Phase (GCT)
	h m s
OCT 16	
EUR E(P)	00 02 06.0
OCT 16	
GCA IP	00 35 03.9
OCT 16	
H-00 45 59.5	
45.1N 153.7E	
h ABOUT 045KM	
BOZ EP	00 56 22.0
EUR EP	00 56 30.0
I▸P	56 44.0
OCT 16	
BOZ EP	01 00 23.0
ES	00 33.0
OCT 16	
H-01 25 06.7	
46.1N 151.8E	
h ABOUT 045KM	
COL IP	01 32 15.3
BOZ IP	01 35 29.9
EUR IP C	01 35 40.0
BCN EP	01 35 58.9
TUC EP	01 36 29.0
ALQ IP	01 36 34.0
OCT 16	
BOZ EP	02 23 00.0
ES	23 34.0
EUR E(P)	02 23 34.5
EL	24 47.0
OCT 16	
EUR EP	02 37 28.5
OCT 16	
COL EP	03 22 22.0
EUR EP	03 23 24.4
OCT 16	
BOZ EP	03 24 42.0
EUR E(P)	03 25 41.0
E	25 58.5
OCT 16	
COL EP	03 44 45.0
EUR E(P)	03 48 21.5
OCT 16	
BOZ EP	03 58 04.5
OCT 16	
H-05 15 36.1	
44.8N 150.4E	
h ABOUT 033KM	
COL I(P)	05 22 53.7
HHM EP	05 25 51.7

Date and Station	Phase (GCT)
	h m s
BUT EP	05 26 05.0
E	26 18.0
BOZ IP	05 26 11.0
I	26 23.0
I	27 30.0
EUR IP D	05 26 20.5
I	26 32.5
SLC E(P)	05 26 29.9
BCN EP	05 26 38.9
I	26 52.5
GCA EP	05 26 45.3
TUC EP	05 27 08.5
ALQ IP	05 27 14.0
I	27 27.0
OCT 16	
EUR E(P)	05 21 55.0
OCT 16	
EUR E(P)	05 23 51.0
OCT 16	
COL EP	05 57 59.0
EUR EP	06 01 19.0
OCT 16	
TUC IP	06 18 09.0
OCT 16	
COL EP	07 07 40.0
BOZ E(P)	07 10 56.0
EUR EP	07 11 59.6
E	12 14.0
OCT 16	
COL EP	07 15 08.0
EUR EP	07 18 28.1
OCT 16	
H-07 50 22.4	
10.8S 163.7E	
h ABOUT 068KM	
COL EP	08 02 45.0
EUR EP	08 03 14.8
OCT 16	
EUR EP	07 51 02.5
OCT 16	
GUA EP	08 29 52.0
OCT 16	
H-08 33 42.0	
45.6N 151.9E	
h ABOUT 045KM	
COL IP	08 40 53.3
HHM IP	08 43 47.0
BOZ EP	08 44 06.8

Date and Station	Phase	Phase (GCT) h m s
BUT	EP	08 44 07.0
EUR	EP	08 44 16.6
	E▸P	44 29.0
SLC	E(P)	08 44 28.6
BCN	EP	08 44 35.3
	I▸P	44 48.5
GCA	E(P)	08 44 42.4
TUC	E(P)	08 45 01.0
	E▸P	45 18.0
ALQ	EP	08 45 10.0
OCT 16		
BCN	EP	09 10 43.8
OCT 16		
BOZ	EP	09 29 43.0
	I▸P	29 52.0
EUR	E(P)	09 30 01.5
OCT 16		
H-09 29 56.7		
45.2N 153.8E		
h ABOUT 040KM		
COL	EP	09 37 05.0
HHM	EP	09 39 57.5
	EPCP	40 44.0
BOZ	EP	09 40 17.0
EUR	EP	09 40 25.5
	E▸P	40 37.3
OCT 16		
TUC	E(P)	10 10 57.0
OCT 16		
BOZ	EP	10 13 52.5
OCT 16		
H-10 30 55.2		
45.2N 150.4E		
h ABOUT 045KM		
COL	IP	10 38 15.8
HHM	IP	10 41 08.0
	E▸P	41 20.0
BUT	E(P)	10 41 18.0
BOZ	IP	10 41 27.0
	I▸P	41 39.0
EUR	EP	10 41 36.7
	E▸P	41 50.4
SLC	E(P)	10 41 46.5
BCN	IP	10 41 55.3
	I▸P	42 08.8
GCA	EP	10 42 02.7
ALQ	IP	10 42 30.0
	I▸P	42 43.0

Date and Station	Phase	Phase (GCT) h m s
OCT 16		
H-11 46 17.4		
46.4N 150.8E		
h ABOUT 040KM		
BOZ	EP	11 56 41.0
	▸P	56 53.5
EUR	EP	11 56 50.5
	E▸P	57 04.0
OCT 16		
COL	EP	12 11 26.0
BOZ	EP	12 14 36.5
EUR	EP	12 14 43.4
OCT 16		
COL	EP	12 55 06.0
OCT 16		
BOZ	EP	13 41 31.0
OCT 16		
H-13 55 26.2		
15.1S 173.6W		
h ABOUT 033KM		
BCN	EP	14 07 06.8
EUR	EP	14 07 14.0
TUC	IP	14 07 15.0
GCA	IP	14 07 24.1
ALQ	EP	14 07 36.0
COL	IP	14 07 44.4
BOZ	EP	14 07 45.5
OCT 16		
COL	EP	14 04 37.0
BOZ	EP	14 04 58.0
OCT 16		
H-14 20 45.3		
45.8N 151.8E		
h ABOUT 040KM		
COL	EP	14 27 56.0
BOZ	IP	14 31 10.1
	I▸P	31 21.0
EUR	EP	14 31 20.0
OCT 16		
H-14 59 43.8		
46.6N 150.4E		
h ABOUT 040KM		
COL	IP	15 06 53.6
OCT 16		
WAS	E(P)	15 33 42.5
OCT 16		
H-15 36 32.1		
44.3N 114.8W		
h ABOUT 030KM		

Date and Station	Phase	Phase (GCT) h m s
BUT	IP	15 37 09.0
	IS	37 41.0
BOZ	I(P)	15 37 11.9
	I(S)	37 46.0
HHM	EP	15 37 34.0
	ES	38 14.0
SLC	E(P)	15 37 41.9
	IL	38 36.9
EUR	EP	15 37 44.0
	IL	38 55.0
BCN	I(P)	15 38 42.2
	EL	40 45.7
OCT 16		
BUT	EP	15 43 41.0
	ES	44 12.0
BOZ	EP	15 43 42.0
	IL	44 19.0
HHM	E(P)	15 44 02.0
EUR	EP	15 44 16.0
	EL	45 24.0
OCT 16		
H-15 43 00.8		
38.6N 073.4E		
h ABOUT 033KM		
COL	IP	15 54 19.6
HHM	EP	15 56 14.0
BOZ	EP	15 56 24.0
BUT	EP	15 56 25.0
EUR	I(P)	15 56 57.0
	EPP	16 01 09.0
	IPKKP	13 00.0
BCN	E(P)	15 57 13.7
	EPP	16 01 25.8
HON	E	16 10 20.0
	E	16 16.0
	E	20 37.0
	EL	28 04.0
OCT 16		
COL	EP	15 53 56.0
OCT 16		
EUR	E(P)	16 08 12.5
OCT 16		
TUC	E(P)	16 15 23.0
OCT 16		
EUR	E(P)	16 21 22.0
OCT 16		
BOZ	IP	16 26 03.0
COL	EP	16 27 04.0

Date and Station	Phase	Phase (GCT) h m s
OCT 16		
H-17 00 00.1		
37.2N 116.2W		
h ABOUT 000KM		
BCN	I(P)	17 00 30.3
EUR	IP C	17 00 39.8
GCA	IP	17 00 59.8
SLC	IP	17 01 19.1
	I	01 34.4
	IL	02 37.2
UKI	EP	17 01 33.5
	IS	02 32.5
TUC	IP	17 01 39.3
	E	02 06.0
	E	06 04.0
	E	08 23.0
BOZ	IP	17 02 16.8
BUT	EP	17 02 19.0
	IL	04 21.0
HHM	EP	17 02 46.0
COL	EP	17 06 41.0
OCT 16		
BOZ	E(P)	17 11 00.0
OCT 16		
TUC	E(P)	17 16 17.0
OCT 16		
HHM	IP	17 20 48.0
	IS	21 15.5
OCT 16		
EUR	EP	17 24 45.5
	E	25 17.5
BCN	EP	17 25 09.2
	ES	25 30.7
OCT 16		
EUR	EP	19 09 58.8
	IL	10 34.4
BCN	E(P)	19 10 11.0
OCT 16		
BCN	EP	19 19 20.0
	ES	19 32.0
OCT 16		
HHM	EP	19 34 09.0
	ES	34 40.0
OCT 16		
BOZ	EP	19 38 26.2
HHM	E(P)	19 38 48.0
EUR	EP	19 39 03.0
	EL	40 10.7

Date and Station	Phase (GCT)
	h m s
OCT 16	
H-20 31 14.7	
38.6N 073.1E	
h ABOUT 070KM	
BOZ EP	20 44 34.0
OCT 16	
H-20 39 30.5	
8.8N 137.9E	
h ABOUT 028KM	
GUA IP	20 41 31.0
E(S)	42 58.0
OCT 16	
H-21 30 52.7	
44.4N 150.9E	
h ABOUT 080KM	
GUA E(P)	21 37 29.5
HHM EP	21 41 03.5
E(▸P)	41 20.0
BOZ IP	21 41 21.2
I▸P	41 43.0
EUR IP D	21 41 31.0
E▸P	41 51.6
BCN EP	21 41 48.6
I▸P	42 11.5
GCA EP	21 41 56.9
TUC E(P)	21 42 18.0
E▸P	42 41.0
OCT 16	
TUC E(P)	21 36 58.0
OCT 16	
EUR E(P)	21 50 13.2
E	50 26.0
OCT 16	
EUR EP	22 11 24.3
E	11 40.0
OCT 16	
COL EP	22 16 41.0
OCT 16	
H-22 21 15.8	
17.7N 062.0W	
h ABOUT 067KM	
SJP IP	22 22 15.4
TUC IP	22 29 37.0
EPP	31 28.0
GCA EP	22 29 48.3
SLC IP	22 29 55.0
BOZ EP	22 30 03.0
BCN EP	22 30 06.8
E▸P	30 21.5
EUR EP	22 30 16.2
E▸P	30 30.5

Date and Station	Phase (GCT)
	h m s
COL IP	22 32 32.6
OCT 16	
COL EP	22 37 46.0
OCT 16	
BCN EP	22 49 57.0
EL	50 29.5
OCT 16	
BOZ IP	23 00 21.0
IS	00 31.0
OCT 16	
GUA E(P)	23 39 11.0
OCT 16	
SLC IP	23 41 05.1
IS	41 29.7
EUR E(P)	23 41 45.0
E(S)	42 20.5
GCA EP	23 42 03.7
OCT 16	
BCN EP	23 49 57.0
OCT 17	
H-00 35 20.3	
45.1N 149.6E	
h ABOUT 033KM	
EUR EP	00 46 06.5
BCN EP	00 46 25.0
OCT 17	
BCN E(P)	00 45 15.0
OCT 17	
BCN EP	01 11 25.0
OCT 17	
H-01 22 07.7	
44.4N 114.7W	
h ABOUT 030KM	
BOZ EP	01 22 46.7
IL	23 22.0
HHM EP	01 23 09.0
SLC E(P)	01 23 12.1
EUR EP	01 23 22.8
I	23 24.6
I(S)	24 12.5
OCT 17	
BOZ E(P)	01 30 16.0
ES	30 45.0
OCT 17	
H-02 11 35.3	
21.5S 063.4W	
h ABOUT 033KM	
TUC EP	02 22 45.0
EUR EP	02 23 32.2
OCT 17	
COL IP	02 15 51.6

Date and Station	Phase (GCT)
	h m s
EUR E(P)	02 16 19.5
OCT 17	
COL IP	02 16 43.6
EUR E(P)	02 19 10.0
OCT 17	
H-03 05 50.2	
11.6N 140.6E	
h ABOUT 070KM	
GUA IP	03 06 58.9
COL EP	03 17 05.0
EUR EP	03 18 56.1
BOZ EP	03 19 01.9
OCT 17	
BOZ EP	03 23 50.5
ES	24 16.0
EUR E(P)	03 24 30.0
EL	26 01.0
OCT 17	
H-03 45 08.6	
45.1N 151.4E	
h ABOUT 045KM	
COL EP	03 52 25.0
EUR EP	03 55 46.2
E▸P	55 59.0
OCT 17	
H-04 19 50.0	
45.2N 151.7E	
h ABOUT 050KM	
COL IP	04 27 05.1
BOZ EP	04 30 17.9
E▸P	30 31.0
EUR EP	04 30 25.5
OCT 17	
COL IP	04 31 57.6
EUR EP	04 35 18.7
E	35 34.5
OCT 17	
EUR EP	04 50 18.0
OCT 17	
COL EP	05 20 37.0
OCT 17	
COL IP	05 31 30.7
OCT 17	
BOZ E(P)	05 46 42.0
EUR E(P)	05 47 15.0
E(S)	48 06.0
EL	48 22.5
OCT 17	
BUT IP	06 22 43.0
E	23 11.0

Date and Station	Phase (GCT)
	h m s
OCT 17	
COL EP	06 46 31.0
OCT 17	
EUR EP	07 22 52.9
E	23 00.5
E	23 09.4
OCT 17	
BUT EP	07 27 18.0
BOZ EP	07 27 19.0
IL	27 56.0
EUR E(P)	07 27 52.5
E(S)	28 45.8
EL	29 03.0
OCT 17	
TUC E(P)	07 42 12.0
OCT 17	
BOZ EP	08 09 32.0
ES	10 10.0
EUR E(P)	08 10 06.2
EL	11 15.0
OCT 17	
H-08 10 55.2	
44.3N 149.1E	
h ABOUT 045KM	
COL IP	08 18 25.3
BOZ EP	08 21 36.0
EUR EP	08 21 45.0
E▸P	21 57.0
BCN EP	08 22 03.0
E▸P	22 16.0
TUC E(P)	08 22 32.0
OCT 17	
COL IP	08 31 06.2
EUR EP	08 34 24.5
E	34 37.8
OCT 17	
H-08 31 18.6	
45.8N 151.7E	
h ABOUT 045KM	
COL IP	08 38 32.1
BOZ EP	08 41 44.2
I▸P	41 57.0
EUR EP	08 41 53.5
E▸P	42 06.0
OCT 17	
H-09 33 24.0	
38.8N 073.4E	
h ABOUT 040KM	
COL IP	09 44 43.6
OCT 17	
COL EP	09 38 42.0

Date and Station	Phase	Phase (GCT) h m s
EUR	EP	09 42 00.0
	E	42 13.0
OCT 17		
BOZ	EP	10 13 47.0
OCT 17		
EUR	E(P)	10 15 29.0
	E	15 43.6
OCT 17		
H-10 16 48.9		
43.8N 151.0E		
h ABOUT 050KM		
COL	EP	10 24 14.0
BOZ	EP	10 27 24.0
EUR	EP	10 27 32.9
	E▸P	27 46.6
	E	28 04.5
OCT 17		
EUR	EP	10 32 17.5
OCT 17		
EUR	EP	10 39 07.2
	E	39 19.6
OCT 17		
H-10 41 26.6		
45.0N 150.8E		
h ABOUT 033KM		
COL	IP	10 48 47.3
OCT 17		
EUR	EP	10 49 49.2
	E	50 01.6
OCT 17		
EUR	E(P)	10 58 47.0
	E	58 58.4
COL	EP	10 58 54.0
OCT 17		
EUR	EP	11 02 14.0
	E	02 29.7
OCT 17		
EUR	EP	11 04 12.0
OCT 17		
H-11 50 49.8		
45.0N 151.4E		
h ABOUT 045KM		
COL	EP	11 58 07.0
EUR	E(P)	12 01 25.5
	E	01 42.0
OCT 17		
H-12 18 23.0		
49.2N 149.8E		
h ABOUT 045KM		
COL	IP	12 25 17.9
EUR	EP	12 28 54.4

Date and Station	Phase	Phase (GCT) h m s
OCT 17		
EUR	E(P)	12 54 28.5
	E	54 40.0
OCT 17		
H-12 58 33.6		
45.1N 150.3E		
h ABOUT 050KM		
COL	IP	13 05 55.0
BOZ	EP	13 09 07.0
EUR	EP	13 09 15.0
	E▸P	09 27.5
OCT 17		
COL	IP	13 07 45.6
EUR	E(P)	13 11 04.2
OCT 17		
H-14 06 32.2		
44.2N 149.2E		
h ABOUT 040KM		
COL	IP	14 14 03.0
EUR	EP	14 17 21.5
	E▸P	17 32.5
TUC	E(P)	14 18 10.0
OCT 17		
H-14 13 59.8		
09.8N 126.5E		
h ABOUT 033KM		
COL	EP	14 26 03.0
EUR	E(P)	14 28 05.5
	E	28 19.5
TUC	EP'	14 33 09.0
OCT 17		
EUR	IP D	14 43 43.0
OCT 17		
COL	EP	14 52 26.0
OCT 17		
H-15 03 12.7		
44.1N 149.2E		
h ABOUT 055KM		
COL	IP	15 10 42.2
EUR	EP	15 14 01.0
	E▸P	14 15.8
OCT 17		
BOZ	EP	15 22 34.0
	ES	23 05.0
EUR	E(P)	15 23 11.0
	EL	24 14.0
OCT 17		
EUR	EP	15 59 19.5
OCT 17		
EUR	EP	16 04 43.5
	IL	05 05.5

Date and Station	Phase	Phase (GCT) h m s
OCT 17		
TUC	E(P)	16 07 51.0
OCT 17		
BOZ	EP	18 53 06.0
EUR	EP	18 53 09.5
	E	53 22.5
OCT 17		
ALQ	E(P)	20 51 54.0
	I	52 17.0
OCT 17		
ALQ	E(P)	21 10 12.0
	I	10 48.0
OCT 17		
EUR	EP	21 38 06.1
OCT 17		
H-22 35 40.1		
45.3N 151.6E		
h ABOUT 030KM		
EUR	EP	22 46 18.0
	E	46 29.5
OCT 17		
TUC	E(P)	22 41 22.0
OCT 17		
BOZ	EP	22 45 50.4
	IL	46 29.0
OCT 17		
EUR	E(P)	22 47 36.0
OCT 17		
TUC	E(P)	22 59 57.0
OCT 17		
SLC	E(P)	23 04 12.6
	ES	04 38.1
OCT 17		
SLC	E(P)	23 10 48.9
OCT 17		
SLC	EP	23 16 55.8
	E	16 26.3
OCT 17		
H-23 24 34.4		
44.6N 149.0E		
h ABOUT 045KM		
COL	IP	23 32 03.0
KIP	IP	23 33 20.7
	ES	40 34.0
HON	E(P)	23 33 29.0
	IS	40 28.0
	ESCS	43 18.0
	ESS	44 00.0
	EL	44 48.0
BUT	E(P)	23 35 07.9
EUR	EP	23 35 22.0
	I▸P	35 38.0
	EPP	37 49.0

Date and Station	Phase	Phase (GCT) h m s
BCN	EP	23 35 41.5
	I▸P	35 55.7
GCA	EP	23 35 51.5
TUC	EP	23 36 11.0
	E▸P	36 26.0
ALQ	IP	23 36 16.0
	E▸P	36 31.0
CSC	E(P)	23 37 45.0
	ES	48 14.0
OCT 17		
HON	IP	23 32 49.0
OCT 17		
COL	IP	23 35 13.3
BCN	EP	23 38 46.7
	I	39 04.6
OCT 17		
COL	IP	23 41 34.0
EUR	EP	23 44 53.0
	E	45 07.0
TUC	E(P)	23 45 41.0
OCT 17		
EUR	EP	23 47 26.7
	E	47 41.7
OCT 17		
H-23 54 56.9		
44.5N 149.0E		
h ABOUT 045KM		
COL	IP	24 02 26.4
BOZ	IP	24 05 37.1
EUR	EP	24 05 46.0
BCN	EP	24 06 04.7
	I▸P	06 16.2
TUC	EP	24 06 33.0
ALQ	E(P)	24 06 39.0
OCT 18		
BCN	EP	00 18 15.2
	ES	18 29.2
OCT 18		
GUA	E(P)	01 15 57.0
OCT 18		
ALQ	E(P)	01 14 43.0
OCT 18		
BOZ	EP	01 48 47.0
OCT 18		
H-01 59 38.8		
44.5N 149.1E		
h ABOUT 045KM		
COL	IP	02 07 08.4
HHM	IP	02 09 59.0

Date and Station	Phase (GCT)
	h m s
BOZ IP	02 10 18.0
I	10 25.0
I▸P	10 32.0
EUR EP	02 10 27.2
E	10 34.2
I▸P	10 40.9
BCN E(P)	02 10 37.6
E	10 44.0
E	10 59.6
GCA E(P)	02 10 54.4
TUC EP	02 11 15.5
E▸P	11 29.0
ALQ IP	02 11 20.0
I	11 29.0
OCT 18	
COL EP	02 16 06.0
OCT 18	
H-02 28 40.6	
44.5N 153.3E	
h ABOUT 050KM	
COL EP	02 35 54.0
EUR EP	02 39 12.7
E▸P	39 26.4
OCT 18	
EUR E(P)	02 36 28.7
OCT 18	
BOZ EP	02 45 18.9
EUR EP	02 45 27.7
OCT 18	
H-02 47 03.7	
18.0S 178.7W	
h ABOUT 650KM	
EUR EP	02 58 18.0
TUC E(P)	02 58 20.0
OCT 18	
COL EP	03 22 38.0
OCT 18	
H-04 01 21.7	
44.5N 150.4E	
h ABOUT 060KM	
COL EP	04 08 45.0
HHM IP	04 11 31.2
EUR IP C	04 12 03.8
I▸P	12 20.3
E▸P	12 28.3
SLC E(P)	04 12 14.9
BCN EP	04 12 22.6
E▸P	12 39.6
GCA E(P)	04 12 30.5
TUC E(P)	04 12 52.0

Date and Station	Phase (GCT)
	h m s
ALQ IP	04 12 57.0
I▸P	13 15.0
OCT 18	
BOZ IP	04 10 49.5
IS	10 59.0
BUT EP	04 11 00.0
IS	11 08.0
OCT 18	
H-04 36 00.9	
44.0N 150.9E	
h ABOUT 040KM	
COL EP	04 43 27.0
HHM EP	04 46 17.0
BOZ IP	04 46 36.0
EUR EP	04 46 45.0
TUC E(P)	04 47 33.0
OCT 18	
EUR E(P)	04 40 01.0
OCT 18	
TUC E(P)	04 43 38.0
BOZ EP	04 44 36.1
OCT 18	
COL IP	04 54 58.3
BOZ EP	04 58 09.0
E	58 24.0
EUR EP	04 58 18.4
E	58 28.0
E	58 33.5
OCT 18	
COL EP	05 11 02.0
EUR EP	05 14 34.5
OCT 18	
COL EP	05 12 54.0
OCT 18	
H-05 16 10.4	
42.8N 141.4E	
h ABOUT 040KM	
COL IP	05 24 18.7
BOZ IP	05 27 23.9
EUR EP	05 27 34.0
BCN E(P)	05 27 44.0
E	27 51.1
ALQ E(P)	05 28 23.0
OCT 18	
H-05 26 15.7	
45.3N 151.6E	
h ABOUT 040KM	
COL EP	05 33 31.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	05 36 53.5
OCT 18	
H-05 40 53.4	
45.4N 151.5E	
h ABOUT 040KM	
BOZ IP	05 51 21.0
EUR EP	05 51 30.8
BCN EP	05 51 49.2
OCT 18	
H-06 20 21.6	
44.7N 149.9E	
h ABOUT 060KM	
COL EP	06 27 44.0
BOZ EP	06 30 56.0
EUR EP	06 31 04.3
E	31 19.5
BCN E(P)	06 31 23.2
ALQ E(P)	06 32 12.0
OCT 18	
COL EP	06 23 31.0
BOZ EP	06 26 54.0
EUR E(P)	06 27 05.5
OCT 18	
H-07 05 14.9	
45.8N 150.8E	
h ABOUT 030KM	
COL EP	07 12 28.0
BOZ E(P)	07 15 40.0
EUR EP	07 15 54.5
E▸P	16 03.8
BCN E(P)	07 16 13.1
OCT 18	
SJP EP	07 17 33.8
EL	18 36.0
OCT 18	
COL EP	07 21 30.0
OCT 18	
H-07 55 14.0	
44.8N 150.0E	
h ABOUT 055KM	
COL EP	08 02 37.0
BOZ EP	08 05 47.5
I	05 57.0
EUR EP	08 05 56.3
E	05 04.5
I▸P	05 12.3
BCN EP	08 06 15.6
E▸P	06 30.0

Date and Station	Phase (GCT)
	h m s
OCT 18	
EUR EP	08 01 12.0
OCT 18	
H-08 05 22.1	
62.6N 146.6W	
h ABOUT 051KM	
COL IP	08 05 58.8
BOZ E(P)	08 11 00.0
EUR EP	08 11 24.7
I	11 39.3
ALQ E(P)	08 12 32.0
TUC E(P)	08 12 36.0
OCT 18	
EUR EP	08 14 22.5
E	14 39.5
OCT 18	
H-08 15 17.0	
44.5N 151.1E	
h ABOUT 055KM	
EUR EP	08 25 58.0
E▸P	25 13.0
BOZ E(P)	08 26 02.0
BCN E(P)	08 26 15.8
OCT 18	
H-08 41 38.0	
10.5S 161.6E	
h ABOUT 033KM	
EUR IP D	08 54 40.0
TUC E(P)	08 54 53.0
BOZ EP	08 54 58.0
OCT 18	
COL EP	08 52 10.0
EUR EP	08 57 40.0
E	57 52.0
OCT 18	
H-08 53 33.9	
44.8N 150.2E	
h ABOUT 060KM	
COL IP	09 00 54.9
HHM EP	09 03 47.0
BUT E(P)	09 04 00.0
BOZ EP	09 04 06.0
▸P	04 23.0
EUR EP	09 04 15.0
E▸P	04 31.8
SLC EP	09 04 27.4
BCN EP	09 04 34.6
E▸P	04 51.1
I▸P	05 02.2

Date and Station	Phase	(GCT) h m s
TUC	E(P)	09 05 03.0
ALQ	EP	09 05 09.0
	E	05 35.0
GCA	E(P)	09 05 44.2
HON	ES	09 09 21.0
	EL	15 54.0
OCT 18		
H-10 04 31.1		
48.2N 151.4E		
h ABOUT 033KM		
BOZ	EP	10 14 50.2
EUR	EP	10 15 00.0
	E	15 13.4
BCN	E(P)	10 15 19.8
	E	15 29.8
OCT 18		
H-10 18 18.3		
44.9N 152.8E		
h ABOUT 055KM		
BOZ	EP	10 28 38.0
EUR	EP	10 28 50.0
OCT 18		
EUR	EP	11 29 57.6
OCT 18		
TUC	E(P)	11 56 33.0
OCT 18		
BOZ	EP	12 16 19.0
	pP	16 34.0
EUR	E(P)	12 16 29.0
OCT 18		
BOZ	EP	12 49 08.0
	E	49 18.5
OCT 18		
TUC	E(P)	14 19 47.0
OCT 18		
TUC	E(P)	14 49 34.0
OCT 18		
GUA	EP	15 02 59.0
OCT 18		
H-16 00 33.8		
34.0S 071.4W		
h ABOUT 060KM		
ALQ	E(P)	16 12 18.0
	EpP	12 32.0
EUR	EP	16 12 59.2
	E	13 17.0
BOZ	EP	16 13 13.9
	EPP	16 23.0
OCT 18		
BOZ	EP	17 13 34.5

Date and Station	Phase	(GCT) h m s
OCT 18		
COL	EP	17 44 47.0
BOZ	EP	17 47 57.0
	I	48 11.0
OCT 18		
H-17 55 00.2		
45.6N 150.6E		
h ABOUT 040KM		
COL	IP	18 02 17.4
HHM	EP	18 05 11.0
BOZ	IP	18 05 30.2
EUR	IP C	18 05 40.5
SLC	EP	18 05 50.1
BCN	EP	18 05 59.0
	E	06 23.0
GCA	IP	18 06 07.0
TUC	EP	18 06 28.2
	EpP	06 39.0
ALQ	IP	18 06 33.0
	E	06 54.0
OCT 18		
EUR	IP	18 37 13.5
	IL	37 34.5
OCT 18		
H-18 45 57.2		
43.7N 149.6E		
h ABOUT 045KM		
COL	EP	18 53 32.0
BOZ	EP	18 56 37.2
	IpP	55 49.0
EUR	EP	18 56 46.5
	EpP	56 57.5
OCT 18		
ALQ	E(P)	18 47 37.0
OCT 18		
TUC	E(P)	19 08 05.0
OCT 18		
H-20 05 14.4		
47.6N 154.3E		
h ABOUT 040KM		
COL	IP	20 12 04.3
HHM	EP	20 14 59.0
BOZ	IP	20 15 22.2
EUR	EP	20 15 33.0
	IpP	15 45.7
SLC	EP	20 15 44.0
BCN	EP	20 15 53.0
	IpP	16 06.1

Date and Station	Phase	(GCT) h m s
GCA	E(P)	20 15 58.8
TUC	E(P)	20 16 22.0
HON	E	20 20 39.0
	EL	26 50.0
OCT 18		
EUR	E(P)	20 06 57.5
	E	07 12.0
OCT 18		
HHM	EP	20 32 59.0
OCT 18		
COL	EP	21 06 19.0
OCT 18		
COL	EP	21 10 24.0
OCT 18		
H-21 22 52.7		
45.2N 151.1E		
h ABOUT 045KM		
COL	IP	21 30 10.1
BOZ	EP	21 33 22.0
	IpP	33 33.0
EUR	IP D	21 33 31.1
	IpP	33 43.0
BCN	EP	21 33 51.1
	EpP	34 02.1
GCA	E(P)	21 33 57.2
TUC	E(P)	21 34 20.0
	EpP	34 31.0
ALQ	EP	21 34 25.0
OCT 18		
COL	IP	21 43 22.1
ALQ	E(P)	21 47 57.0
OCT 18		
EUR	EP	21 56 13.5
	EL	59 32.6
OCT 18		
BCN	EP	22 00 58.3
	ES	01 10.1
OCT 18		
BOZ	EP	22 05 03.0
OCT 18		
H-22 52 50.6		
46.1N 152.5E		
h ABOUT 040KM		
COL	EP	22 59 57.0
BOZ	EP	23 03 11.2
	E	03 31.5
EUR	E(P)	23 03 21.1
	EpP	03 32.5

Date and Station	Phase	(GCT) h m s
OCT 18		
EUR	E(P)	23 10 41.5
	EL	11 32.4
OCT 18		
EUR	E(P)	23 17 52.0
	EL	18 52.0
OCT 18		
H-23 43 35.9		
44.7N 149.2E		
h ABOUT 045KM		
COL	IP	23 51 03.7
BOZ	IP	23 54 14.0
	I	54 28.0
EUR	EP	23 54 23.5
BCN	E(P)	23 54 41.6
	E	54 46.6
ALQ	E(P)	23 55 16.0
OCT 19		
EUR	EP	00 01 38.0
OCT 19		
RCD	E(P)	00 08 00.0
OCT 19		
BOZ	EP	01 00 31.0
EUR	EP	01 01 26.4
OCT 19		
H-01 04 54.1		
15.9N 093.9W		
h ABOUT 034KM		
TUC	EP	01 09 52.0
	E	10 10.0
BCN	EP	01 10 38.6
	E	10 55.5
FGU	EP	01 10 46.9
EUR	EP	01 11 04.8
HON	E	01 28 12.0
KIP	E	01 28 12.0
OCT 19		
EUR	E(P)	01 26 29.0
	E	26 44.5
	I	26 53.0
OCT 19		
COL	IP	01 31 29.3
OCT 19		
H-02 14 17.4		
18.3S 071.2W		
h ABOUT 078KM		
SJP	IP	02 21 18.0
	E	21 29.0
ALQ	E(P)	02 24 38.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	02 25 45.0
E	25 56.0
OCT 19	
H-02 18 37.9	
46.8N 153.7E	
h ABOUT 045KM	
HON EP	02 27 06.0
ES	34 00.0
E	37 18.0
EL	39 32.0
HHM EP	02 28 31.0
BUT EP	02 28 47.8
BOZ IP	02 28 50.2
I▸P	29 03.5
EUR EP	02 29 00.5
I▸P	29 12.5
SLC E(P)	02 29 10.8
BCN EP	02 29 19.3
I▸P	29 32.0
FGU EP	02 29 20.4
GCA E(P)	02 29 27.5
TUC EP	02 29 52.0
ALQ IP	02 29 55.0
I▸P	30 08.0
OCT 19	
COL EP	02 34 12.0
BOZ EP	02 37 33.8
EUR E(P)	02 37 35.0
OCT 19	
COL EP	02 45 31.0
BOZ EP	02 47 10.0
EUR EP	02 47 18.5
OCT 19	
BOZ EP	02 48 45.5
OCT 19	
H-03 02 43.0	
46.7N 154.0E	
h ABOUT 033KM	
EUR E(P)	03 13 03.5
E	13 08.5
E	13 18.5
OCT 19	
H-03 15 02.5	
46.5N 153.9E	
h ABOUT 040KM	
COL IP	03 22 02.8
HHM EP	03 24 57.0
BUT EP	03 25 11.8

Date and Station	Phase (GCT)
	h m s
BOZ EP	03 25 16.5
I▸P	25 28.0
EUR EP	03 25 26.6
E▸P	25 38.1
BCN EP	03 25 45.5
I▸P	25 58.9
FGU EP	03 25 45.5
GCA EP	03 25 53.3
TUC EP	03 26 16.5
E▸P	26 29.0
ALQ IP	03 26 22.0
I	26 32.0
OCT 19	
GUA E(P)	03 16 41.5
OCT 19	
BHP IP	03 22 46.0
IS	23 23.0
OCT 19	
TUC E(P)	03 32 14.0
E(S)	33 19.0
OCT 19	
H-03 34 19.6	
46.6N 153.8E	
h ABOUT 033KM	
COL IP	03 41 18.5
ES	46 54.0
HON E(P)	03 42 50.0
ES	49 42.0
E	53 04.0
EL	55 14.0
BUT EP	03 44 30.8
BOZ EP	03 44 33.9
EUR EP	03 44 45.0
E	44 58.8
SLC EP	03 44 56.6
FGU EP	03 45 04.2
BCN EP	03 45 06.0
I	45 15.5
GCA E(P)	03 45 12.8
TUC EP	03 45 32.0
ALQ IP	03 45 40.0
I	26 51.0
OCT 19	
H-03 47 07.7	
46.8N 153.8E	
h ABOUT 025KM	
COL IP	03 54 06.9
BUT EP	03 57 17.7
E	57 29.7

Date and Station	Phase (GCT)
	h m s
BOZ IP	03 57 23.0
I	57 35.0
EUR EP	03 57 33.2
E	57 44.2
FGU E(P)	03 57 50.5
BCN EP	03 57 52.5
E	58 03.7
I	58 08.7
GCA E(P)	03 57 59.8
TUC EP	03 58 23.0
E	58 34.0
ALQ IP	03 58 28.0
I	58 40.0
OCT 19	
COL EP	03 51 14.0
OCT 19	
BOZ EP	04 03 00.0
OCT 19	
BOZ EP	04 05 45.2
E	05 54.0
OCT 19	
H-04 07 35.4	
46.8N 153.7E	
h ABOUT 040KM	
COL IP	04 14 33.9
BOZ EP	04 17 49.9
EUR EP	04 17 58.5
E▸P	18 10.0
ALQ E(P)	04 19 05.0
OCT 19	
H-04 10 43.6	
47.3N 153.6E	
h ABOUT 040KM	
COL EP	04 17 36.0
EUR E(P)	04 21 04.0
OCT 19	
H-04 26 17.4	
44.4N 149.3E	
h ABOUT 050KM	
COL IP	04 33 46.2
BOZ IP	04 36 56.1
I▸P	37 10.9
EUR EP	04 37 05.5
I▸P	37 19.5
BCN E(P)	04 37 38.2
OCT 19	
H-04 59 31.1	
21.2S 071.0W	
h ABOUT 033KM	
TUC E(P)	05 10 12.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	05 11 03.5
OCT 19	
GUA IP	05 21 55.0
IS	22 10.0
COL IP	05 32 28.3
OCT 19	
GUA E(P)	05 38 06.0
COL EP	05 48 18.0
OCT 19	
H-05 41 18.1	
44.6N 149.1E	
h ABOUT 040KM	
COL IP	05 48 47.8
BOZ EP	05 51 57.2
I▸P	52 10.5
EUR EP	05 52 06.5
E▸P	52 19.0
OCT 19	
GUA E(P)	05 47 05.0
OCT 19	
H-06 39 39.7	
51.8N 171.8W	
h ABOUT 060KM	
COL IP	06 43 47.7
BOZ E(P)	06 46 57.5
E	47 09.0
EUR EP	06 47 06.5
E	47 17.1
E	47 21.6
OCT 19	
H-06 46 06.7	
41.2N 071.3E	
h ABOUT 033KM	
COL IP	06 57 17.0
I	57 21.0
OCT 19	
BHP IP	06 49 37.5
IS	50 28.0
SJP E(P)	06 53 10.0
E	53 25.0
ALQ E(P)	06 55 40.0
OCT 19	
BOZ EP	06 58 45.0
EUR EP	06 58 52.5
OCT 19	
H-07 00 24.8	
58.7N 137.4W	
h ABOUT 034KM	
SIT IP	07 00 56.6
IS	01 24.7
COL EP	07 02 20.0

Date and Station	Phase	(GCT) h m s
BOZ	EP	07 05 02.0
EUR	EP	07 05 35.8
	E	05 47.8
OCT 19		
HHM	E(P)	07 09 26.0
OCT 19		
BUT	E(P)	07 10 38.0
OCT 19		
COL	EP	07 45 07.0
OCT 19		
H-07 56 20.2		
44.1N 151.1E		
h ABOUT 045KM		
BOZ	EP	08 06 53.5
	I▸P	07 07.0
EUR	EP	08 07 03.4
	I▸P	07 16.2
OCT 19		
GUA	IP	08 35 51.4
	ES	35 59.9
OCT 19		
EUR	E(P)	09 02 07.0
OCT 19		
H-09 02 20.1		
9.9N 126.1E		
h ABOUT 086KM		
COL	EP	09 14 18.0
SJP	EP'	09 22 09.4
OCT 19		
H-09 38 08.0		
45.4N 149.2E		
h ABOUT 030KM		
COL	IP	09 45 33.0
BOZ	EP	09 48 45.0
EUR	EP	09 48 55.0
	E	49 08.6
BCN	EP	09 49 14.1
OCT 19		
H-11 19 31.8		
62.4N 149.6W		
h ABOUT 096KM		
HHM	EP	11 24 41.0
	E	25 04.0
BOZ	EP	11 25 09.0
EUR	EP	11 25 38.6
	EPCP	28 35.0
BCN	E(P)	11 26 09.5
ALQ	IP	11 26 45.0
OCT 19		
BOZ	EP	11 45 49.2
EUR	EP	11 45 58.8
OCT 19		
BOZ	EP	12 53 51.2
EUR	E(P)	12 54 01.0
OCT 19		
BOZ	EP	14 24 45.8
	I	25 00.0
EUR	EP	14 24 56.0
OCT 19		
HHM	EP	14 40 08.0
EUR	EP	14 40 24.5
	E▸P	40 34.2
	EsP	40 39.5
OCT 19		
H-14 51 24.0		
34.0S 071.4W		
h ABOUT 060KM		
EUR	E(P)	15 03 51.6
	E▸P	04 07.5
	EsP	04 16.0
	E	04 22.5
OCT 19		
GUA	EP	14 56 16.0
	E	56 24.1
OCT 19		
H-15 20 05.2		
23.7S 070.0W		
h ABOUT 067KM		
TUC	E(P)	15 31 01.0
EUR	EP	15 31 48.8
BOZ	EP	15 32 00.0
OCT 19		
BOZ	E(P)	15 30 05.0
OCT 19		
H-15 42 32.8		
44.8N 150.9E		
h ABOUT 040KM		
BOZ	EP	15 53 05.2
	I▸P	53 18.5
EUR	IP C	15 53 14.9
	E▸P	53 28.2
BCN	EP	15 53 33.2
OCT 19		
BCN	EP	15 44 34.3
	EL	44 49.3
OCT 19		
H-16 15 21.4		
44.4N 150.9E		
h ABOUT 120KM		
HHM	IP	16 25 26.5
	E	25 48.0
BOZ	IP	16 25 46.0
	I	26 05.0
EUR	IP D	16 25 55.4
	I	25 59.2
FGU	EP	16 26 13.4
BCN	IP	16 26 14.0
	E	26 32.8
	I▸P	26 46.7
SLC	I(P)	16 26 15.2
GCA	IP	16 26 21.4
ALQ	EP	16 26 47.0
	I▸P	27 21.0
OCT 19		
H-16 20 53.8		
45.0N 149.4E		
h ABOUT 045KM		
BOZ	E(P)	16 31 30.0
	E▸P	31 42.0
EUR	EP	16 31 40.0
	E▸P	31 53.4
BCN	E(P)	16 31 57.7
ALQ	E(P)	16 32 32.0
OCT 19		
ALQ	IP	17 09 03.5
	I	09 42.0
OCT 19		
COL	IP	17 56 53.8
EUR	EP	18 00 13.9
OCT 19		
H-18 01 58.1		
46.5N 152.7E		
h ABOUT 040KM		
COL	IP	18 09 01.6
BOZ	EP	18 12 16.0
EUR	I(P)	18 12 38.6
BCN	E(P)	18 12 56.7
OCT 19		
EUR	EP	18 22 16.5
	E	22 23.0
BOZ	EP	18 22 29.0
OCT 19		
EUR	EP	19 00 15.5
	E	00 23.5
OCT 19		
H-19 10 15.4		
45.2N 151.2E		
h ABOUT 045KM		
COL	IP	19 17 31.5
BOZ	EP	19 20 48.0
EUR	E(P)	19 20 59.4
OCT 19		
BOZ	IP	19 11 13.5
	IS	11 23.0
HHM	EP	19 11 45.0
	ES	12 20.0
OCT 19		
BOZ	EP	20 30 15.2
OCT 19		
BCN	E(P)	20 34 09.2
	E	34 20.6
	E(S)	35 19.0
	IL	35 53.4
GCA	E(P)	20 34 11.7
EUR	E(P)	20 35 01.0
ALQ	EP	20 35 06.0
OCT 19		
EUR	E(P)	20 35 20.5
	EL	37 26.0
OCT 19		
H-20 53 37.2		
42.6N 152.0E		
h ABOUT 040KM		
COL	EP	21 01 06.0
OCT 19		
EUR	E(P)	21 04 53.3
OCT 19		
BOZ	E(P)	21 24 29.0
OCT 19		
COL	EP	21 32 27.0
BOZ	EP	21 35 41.0
OCT 19		
FGU	EP	22 20 40.1
	IS	21 01.1
OCT 19		
COL	EP	22 38 59.0
OCT 19		
H-23 11 40.9		
45.2N 151.1E		
h ABOUT 033KM		
COL	IP	23 18 59.7
BOZ	IP	23 22 11.0
	I	22 24.5
EUR	EP	23 22 21.2
	I	22 33.3
	I	22 39.5
BCN	E(P)	23 22 40.1
	E	22 52.1
ALQ	EP	23 23 14.0
OCT 19		
SLC	E(P)	23 14 17.6

Date and Station	Phase (GCT)
	h m s
OCT 19	
H-23 44 31.6	
45.1N 151.4E	
h ABOUT 040KM	
COL IP	23 51 49.1
BOZ EP	23 55 00.0
E	55 15.0
EUR E(P)	23 55 09.3
E	55 24.2
BCN E(P)	23 55 38.9
E	55 47.0
OCT 19	
BOZ EP	23 53 23.0
OCT 20	
BCN IP	00 22 42.0
IS	23 01.0
EUR E(P)	00 23 14.5
I	23 26.9
IL	24 16.0
OCT 20	
H-00 22 53.3	
37.7S 073.2W	
h ABOUT 035KM	
BHP IP	00 31 21.0
SJP E(P)	00 32 32.0
E	33 10.6
ALQ IP	00 34 54.0
E	35 19.0
BCN EP	00 35 16.0
FGU EP	00 35 26.6
EUR E(P)	00 35 33.8
I	35 41.3
OCT 20	
GCA EP	00 24 29.5
OCT 20	
SJP E(P)	00 32 10.5
OCT 20	
H-00 42 41.9	
44.3N 149.7E	
h ABOUT 040KM	
EUR E(P)	00 53 36.0
E▸P	53 47.0
OCT 20	
H-00 53 07.2	
44.7N 150.7E	
h ABOUT 025KM	
GUA E(P)	00 59 43.7
COL IP	01 00 33.1
ES	06 34.0
HON EP	01 01 49.0
IS	08 52.0
EL	13 08.0

Date and Station	Phase (GCT)
	h m s
KIP E(P)	01 01 52.0
SIT EP	01 01 52.0
ES	08 24.0
HHM EP	01 03 24.0
UKI E(P)	01 03 31.0
I	03 49.0
ES	11 58.0
EL	18 57.0
BUT EP	01 03 39.6
BOZ EP	01 03 43.0
EUR EP	01 03 52.6
I	04 00.0
I	04 26.5
IP'P'	33 07.5
SLC E(P)	01 04 02.7
I	04 11.8
I	04 37.8
BCN EP	01 04 11.7
I	08 04.5
EP'P	32 41.5
FGU E(P)	01 04 12.1
RCD E(P)	01 04 19.0
GCA EP	01 04 20.5
I	04 27.5
ALQ EP	01 04 46.0
E	05 23.0
EUR I(P)	01 04 50.2
CHK E(P)	01 05 13.0
IS	15 09.0
CSC E(P)	01 06 08.0
E	10 16.0
IS	16 54.0
PHI E(P)	01 06 09.4
ES	16 19.6
SJP E(P)	01 07 40.2
EP'	11 17.0
EPP	12 41.0
OCT 20	
H-01 07 35.0	
47.4N 151.1E	
h ABOUT 045KM	
COL IP	01 14 36.7
EUR E(P)	01 18 20.0
BCN EP	01 18 26.0
OCT 20	
H-01 14 05.2	
44.6N 150.1E	
h ABOUT 045KM	
BCN EP	01 25 08.0
E▸P	25 23.0

Date and Station	Phase (GCT)
	h m s
GCA E(P)	01 25 10.0
OCT 20	
BCN EP	01 16 24.2
OCT 20	
BHP IP	01 21 29.0
IS	22 11.0
OCT 20	
EUR I(P)	01 21 39.5
SJP EP	01 25 05.0
OCT 20	
H-01 22 35.1	
45.9N 153.6E	
h ABOUT 040KM	
EUR IP	01 33 03.5
OCT 20	
EUR IP	01 25 05.0
OCT 20	
BCN E(P)	01 29 55.5
OCT 20	
H-01 40 39.5	
43.9N 149.8E	
h ABOUT 040KM	
BCN E(P)	01 51 56.8
E	52 03.5
OCT 20	
EUR E(P)	01 42 51.0
COL IP	01 46 51.5
OCT 20	
EUR E(P)	01 52 10.0
OCT 20	
H-02 09 29.4	
44.7N 150.0E	
h ABOUT 045KM	
COL IP	02 16 51.8
HHM EP	02 19 45.0
BOZ EP	02 20 05.0
I	20 12.0
EUR EP	02 20 14.0
I▸P	20 29.0
BCN EP	02 20 32.5
E▸P	20 47.0
OCT 20	
H-02 12 43.4	
45.0N 150.8E	
h ABOUT 050KM	
EUR IP D	02 23 23.0
I▸P	23 37.0
OCT 20	
H-02 20 36.7	
44.8N 150.0E	
h ABOUT 040KM	

Date and Station	Phase (GCT)
	h m s
COL EP	02 28 01.0
EUR EP	02 31 21.0
BCN E(P)	02 31 49.7
OCT 20	
BOZ EP	02 34 55.0
OCT 20	
H-02 51 59.6	
46.5N 148.1E	
h ABOUT 040KM	
COL E(P)	02 59 12.0
OCT 20	
COL EP	02 53 04.0
OCT 20	
COL EP	02 54 29.0
EUR EP	02 54 37.5
E	54 51.5
OCT 20	
H-02 58 54.2	
44.4N 149.6E	
h ABOUT 060KM	
EUR EP	03 09 40.0
OCT 20	
H-03 00 10.9	
20.8S 178.6W	
h ABOUT 600KM	
BCN EP	03 11 34.0
EUR EP	03 11 39.0
COL EP	03 12 00.0
FGU IP	03 12 05.2
HHM EP	03 12 06.5
OCT 20	
EUR E(P)	03 02 29.0
OCT 20	
GUA EP	03 02 51.3
OCT 20	
H-03 13 23.0	
44.1N 149.8E	
h ABOUT 040KM	
COL EP	03 20 53.0
EUR EP	03 24 11.2
E	24 23.3
OCT 20	
COL IP	03 23 58.3
EUR EP	03 27 22.5
OCT 20	
COL EP	03 38 11.0
EUR E(P)	03 40 57.0

Date and Station	Phase (GCT)
	h m s
OCT 20	
EUR E(P)	03 41 25.0
OCT 20	
COL EP	03 41 32.0
HHM E(P)	03 44 27.0
BOZ EP	03 44 47.0
EUR EP	03 44 57.5
E	45 10.0
BCN EP	03 45 31.0
ALQ EP	03 45 52.0
OCT 20	
BOZ EP	03 46 40.2
OCT 20	
H-03 41 41.9	
44.3N 149.4E	
h ABOUT 045KM	
COL EP	03 49 12.0
BOZ EP	03 52 20.8
EUR E(P)	03 52 34.0
E▸P	52 45.4
OCT 20	
H-03 55 28.9	
44.8N 149.9E	
h ABOUT 055KM	
COL EP	04 02 52.9
BOZ EP	04 06 03.2
EUR EP	04 06 12.5
E▸P	06 27.7
BCN E(P)	04 06 46.5
OCT 20	
H-03 59 15.4	
45.3N 149.7E	
h ABOUT 055KM	
COL EP	04 06 36.0
EUR EP	04 09 58.5
E	10 21.2
BCN E(P)	04 10 09.5
OCT 20	
COL EP	04 04 11.0
BOZ EP	04 08 00.0
I	08 15.0
EUR E(P)	04 08 07.0
E	08 09.7
BCN EP	04 08 25.4
ALQ IP	04 09 01.0
OCT 20	
COL EP	04 09 38.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	04 13 00.0
E	13 10.2
OCT 20	
EUR E(P)	04 26 57.2
OCT 20	
GUA EP	04 32 41.0
OCT 20	
H-04 31 37.1	
44.4N 149.9E	
h ABOUT 050KM	
COL EP	04 39 04.0
HHM I(P)	04 42 10.0
BOZ EP	04 42 14.0
EUR EP	04 42 22.5
E	42 34.5
E	42 39.5
BCN E(P)	04 42 58.8
OCT 20	
EUR E(P)	04 36 42.0
E	36 46.0
OCT 20	
EUR EP	04 36 54.8
E	37 00.5
OCT 20	
H-04 40 09.1	
44.9N 150.3E	
h ABOUT 050KM	
COL IP	04 47 31.7
HHM EP	04 50 22.8
▸P	50 38.0
BOZ EP	04 50 42.0
I▸P	50 57.0
EUR EP	04 50 51.5
E▸P	50 57.8
BCN EP	04 51 10.0
ALQ EP	04 51 44.0
OCT 20	
H-04 46 57.9	
44.6N 149.8E	
h ABOUT 040KM	
COL EP	04 54 25.0
HHM EP	04 57 15.3
BOZ EP	04 57 35.0
I▸P	57 46.5
EUR EP	04 57 44.0
E▸P	57 56.2
I	58 00.7
BCN EP	04 58 07.0
E	58 14.0
E▸P	58 19.5

Date and Station	Phase (GCT)
	h m s
OCT 20	
EUR EP	04 48 44.5
E	48 52.3
E	48 59.3
OCT 20	
FGU E(P)	04 52 23.7
OCT 20	
EUR E(P)	04 57 26.5
OCT 20	
H-04 58 55.0	
44.5N 149.7E	
h ABOUT 050KM	
COL IP	05 06 22.0
HHM EP	05 09 12.3
BOZ EP	05 09 32.2
I▸P	09 44.0
EUR EP	05 09 41.5
E	09 49.1
I	09 57.5
BCN EP	05 09 56.5
E	10 16.5
OCT 20	
EUR EP	05 03 10.5
OCT 20	
EUR E(P)	05 07 43.5
E	07 49.5
OCT 20	
COL IP	05 11 23.7
BOZ EP	05 14 57.5
I	15 12.9
EUR IP C	05 15 07.8
E	15 22.5
BCN EP	05 15 26.0
E	15 46.4
OCT 20	
EUR EP	05 14 43.9
E	14 57.5
OCT 20	
EUR E(P)	05 17 57.0
E	18 05.0
E	18 09.4
OCT 20	
H-05 20 18.0	
44.9N 151.4E	
h ABOUT 050KM	
COL EP	05 27 37.0
BOZ IP	05 30 47.9
EUR EP	05 30 56.1
E▸P	31 11.5
BCN EP	05 31 15.4
OCT 20	
BCN EP	05 32 58.0

Date and Station	Phase (GCT)
	h m s
OCT 20	
H-05 40 50.6	
47.2N 153.7E	
h ABOUT 055KM	
COL EP	05 47 44.0
BOZ EP	05 51 01.1
EUR EP	05 51 12.5
E	51 22.4
OCT 20	
H-05 52 29.2	
44.6N 149.7E	
h ABOUT 040KM	
COL EP	05 59 57.0
BOZ EP	06 03 07.0
E▸P	03 20.0
EUR EP	06 03 15.5
E	03 25.0
I	03 30.7
OCT 20	
H-06 02 14.7	
44.3N 149.2E	
h ABOUT 040KM	
COL EP	06 09 45.0
EUR EP	06 13 03.8
OCT 20	
H-06 10 25.0	
43.9N 150.7E	
h ABOUT 050KM	
COL IP	06 17 51.8
HHM EP	06 20 41.3
I▸P	20 53.8
I	21 21.8
BUT EP	06 20 55.7
E	21 30.7
BOZ IP	06 21 01.0
EUR IP C	06 21 09.0
I▸P	21 22.0
SLC EP	06 21 19.4
BCN EP	06 21 26.9
E▸P	21 38.9
FGU IP	06 21 28.2
GCA IP	06 21 36.7
ALQ IP	06 22 02.0
E▸P	22 14.0
OCT 20	
EUR EP	06 25 30.4
OCT 20	
EUR EP	06 33 03.5
OCT 20	
COL EP	06 38 39.0

Date and Station	Phase	(GCT)
		h m s
OCT 20		
H-06 38 51.0		
44.4N 150.3E		
h ABOUT 050KM		
COL	IP	06 46 12.5
BOZ	EP	06 49 26.0
	I▸P	49 40.0
EUR	IP D	06 49 35.5
	E▸P	49 48.0
BCN	EP	06 49 53.9
ALQ	IP	06 50 28.0
OCT 20		
EUR	EP	06 46 20.0
	E	46 29.5
OCT 20		
H-06 56 43.5		
44.4N 150.0E		
h ABOUT 040KM		
COL	EP	07 04 10.0
BOZ	EP	07 07 20.9
EUR	EP	07 07 29.5
	E	07 44.5
OCT 20		
H-07 05 56.3		
42.0N 148.5E		
h ABOUT 055KM		
COL	EP	07 13 43.0
BOZ	EP	07 16 45.0
EUR	EP	07 16 54.5
OCT 20		
H-07 20 20.5		
44.7N 149.9E		
h ABOUT 040KM		
COL	IP	07 27 45.5
BOZ	EP	07 30 56.0
EUR	E(P)	07 31 05.5
	E	31 21.0
BCN	E(P)	07 31 36.3
OCT 20		
COL	EP	07 45 06.0
OCT 20		
COL	EP	07 59 52.0
EUR	EP	08 03 10.5
	E	03 25.2
OCT 20		
EUR	EP	08 18 48.0
OCT 20		
SJP	IP	08 18 51.9
	IS	19 04.0

Date and Station	Phase	(GCT)
		h m s
OCT 20		
H-08 26 12.3		
44.3N 149.4E		
h ABOUT 033KM		
COL	IP	08 33 43.0
HHM	EP	08 36 32.8
BOZ	IP	08 36 52.8
EUR	EP	08 37 02.2
	E	37 17.0
	E	40 48.2
BCN	EP	08 37 20.7
	E	37 36.5
ALQ	IP	08 37 55.0
OCT 20		
EUR	E(P)	08 32 27.5
	E	32 30.5
OCT 20		
COL	EP	09 02 23.0
EUR	E(P)	09 05 46.0
OCT 20		
H-09 10 43.9		
44.4N 150.0E		
h ABOUT 040KM		
COL	IP	09 18 10.9
	ES	24 11.0
SIT	E(P)	09 19 21.0
HHM	IP	09 21 01.8
	I▸P	21 12.8
BUT	EP	09 21 15.7
	E▸P	21 27.7
BOZ	IP	09 21 21.0
	I	21 36.0
EUR	IP D	09 21 30.4
	E▸P	21 41.8
	EsP	21 47.5
	EPP	23 53.5
	P'P'	50 06.4
SLC	IP	09 21 40.3
FGU	EP	09 21 48.8
BCN	IP	09 21 48.9
	E(▸P)	21 58.2
	IsP	22 07.0
GCA	IP	09 21 57.7
ALQ	IP	09 22 23.0
	EsP	22 40.0
HON	ES	09 26 38.0
	EL	32 39.0
OCT 20		
EUR	EP	09 13 16.0
	E	13 29.5

Date and Station	Phase	(GCT)
		h m s
OCT 20		
EUR	EP	09 40 27.5
	E	40 43.7
OCT 20		
COL	EP	09 47 43.0
OCT 20		
COL	EP	09 58 28.0
EUR	E(P)	09 58 31.5
	E	58 44.0
OCT 20		
COL	EP	10 19 58.0
EUR	EP	10 23 16.0
	E	23 25.5
	E	23 34.0
OCT 20		
COL	EP	10 41 15.0
OCT 20		
COL	EP	10 44 05.0
EUR	EP	10 47 29.7
OCT 20		
COL	EP	10 54 53.0
EUR	EP	10 58 11.5
	E	58 30.0
BOZ	EP	10 58 12.0
OCT 20		
EUR	IP	11 02 15.2
OCT 20		
H-11 08 57.9		
44.4N 149.7E		
h ABOUT 040KM		
COL	EP	11 16 26.0
HHM	E(P)	11 19 16.8
	I▸P	19 27.8
BOZ	EP	11 19 36.0
	▸P	19 48.0
EUR	EP	11 19 46.0
	E▸P	19 57.0
	EsP	20 02.5
BCN	E(P)	11 20 15.5
ALQ	E(P)	11 20 39.0
OCT 20		
EUR	EP	11 11 28.0
	EL	11 55.0
OCT 20		
EUR	EP	11 15 14.0
OCT 20		
H-11 15 32.3		
44.9N 151.2E		
h ABOUT 040KM		
COL	IP	11 22 51.0

Date and Station	Phase	(GCT)
		h m s
EUR	EP	11 26 12.0
OCT 20		
BCN	EP	11 21 10.4
EUR	E(P)	11 22 02.2
	E	22 19.0
OCT 20		
EUR	E(P)	11 24 21.3
OCT 20		
H-11 35 46.6		
44.2N 150.6E		
h ABOUT 045KM		
COL	EP	11 43 12.0
BOZ	EP	11 46 22.1
EUR	EP	11 46 31.0
	E▸P	46 44.0
	E	46 55.5
OCT 20		
SJP	IP	11 40 45.5
	IS	40 57.5
OCT 20		
EUR	EP	11 51 31.0
OCT 20		
H-11 52 20.7		
44.7N 150.2E		
h ABOUT 045KM		
COL	IP	11 59 43.2
	IS	12 05 42.0
HON	EP	12 01 00.0
	ES	07 59.0
	EL	14 10.0
BUT	E(P)	12 02 42.7
	E▸P	03 00.7
BOZ	EP	12 02 53.6
	I▸P	03 08.0
EUR	EP	12 03 03.6
	I	03 17.0
	I▸P	03 20.3
SLC	E(P)	12 03 20.1
BCN	EP	12 03 22.3
	E▸P	03 34.8
	IsP	03 39.0
FGU	E(P)	12 03 22.8
GCA	E(P)	12 03 32.9
ALQ	IP	12 03 58.0
	E▸P	04 11.0
OCT 20		
H-12 04 35.2		
54.3N 157.6E		
h ABOUT 045KM		
BOZ	E(P)	12 14 13.0

Date and Station	Phase	h m s
EUR	EP	12 14 22.0
	E	14 30.0
	I▸P	14 34.2
BCN	EP	12 14 40.0
OCT 20		
COL	EP	12 05 28.0
OCT 20		
H-12 09 31.1		
45.0N 149.6E		
h ABOUT 045KM		
COL	IP	12 16 54.0
HHM	EP	12 19 50.8
BOZ	EP	12 20 04.9
EUR	EP	12 20 15.5
	I▸P	20 28.9
BCN	E(P)	12 20 34.0
	E▸P	20 48.0
OCT 20		
COL	EP	12 22 38.0
OCT 20		
COL	EP	12 25 29.0
EUR	EP	12 29 01.3
OCT 20		
EUR	E(P)	12 33 25.5
OCT 20		
EUR	E(P)	12 35 51.2
OCT 20		
EUR	EP	12 37 48.3
	E	38 02.5
OCT 20		
BOZ	EP	13 09 24.0
	ES	09 55.0
FGU	EP	13 09 30.5
	IS	10 03.8
OCT 20		
H-12 59 58.6		
24.1N 005.1E		
h ABOUT 000KM		
SJP	EP	13 10 48.8
	E	11 01.3
BHP	EP	13 12 20.4
COL	IP	13 12 55.1
RCD	IP	13 12 41.4
HHM	EP	13 12 58.8
BOZ	IP	13 13 02.0
BUT	IP	13 13 03.7
FGU	IP	13 13 07.4
ALQ	IP	13 13 14.8
SLC	E(P)	13 13 15.0
GCA	EP	13 13 23.8
EUR	IP C	13 13 31.1
	E	13 38.0
TUC	IP	13 13 35.2
BCN	EP	13 13 38.2
OCT 20		
H-13 21 14.1		
45.1N 150.5E		
h ABOUT 045KM		
COL	IP	13 28 33.2
HHM	EP	13 31 25.8
	I	33 33.8
SLC	E(P)	13 31 58.5
FGU	E(P)	13 32 07.8
OCT 20		
EUR	E(P)	13 24 04.0
OCT 20		
H-13 29 26.6		
31.1N 115.6W		
h ABOUT 014KM		
BCN	EP	13 30 41.6
	I	31 03.3
GCA	IP	13 31 09.7
EUR	EP	13 31 30.5
	IL	33 55.5
ALQ	IP	13 31 35.0
	E	31 47.0
	EL	34 01.0
COL	E(P)	13 37 02.0
OCT 20		
EUR	EP	13 49 16.5
	E	49 30.0
OCT 20		
EUR	E(P)	13 51 43.0
	EL	53 12.0
BCN	E(P)	13 52 46.4
	E(L)	53 08.3
OCT 20		
H-14 02 36.8		
44.6N 150.0E		
h ABOUT 045KM		
BOZ	EP	14 13 12.5
OCT 20		
COL	EP	14 05 04.0
OCT 20		
COL	IP	14 08 12.0
OCT 20		
BOZ	IP	14 15 21.2
OCT 20		
H-15 11 23.5		
44.1N 151.1E		
h ABOUT 050KM		
COL	IP	15 18 46.5
HHM	IP	15 21 37.7
	I▸P	21 50.4
BUT	EP	15 21 55.8
	E	22 28.7
BOZ	IP	15 21 56.3
	I▸P	22 09.0
EUR	EP	15 22 05.4
	E▸P	22 18.9
	E	22 29.5
ALQ	EP	15 22 59.0
	E▸P	23 13.0
OCT 20		
H-15 29 06.5		
43.7N 150.3E		
h ABOUT 050KM		
COL	IP	15 36 34.7
EUR	EP	15 39 52.8
	E▸P	40 06.2
BCN	EP	15 40 11.3
OCT 20		
COL	EP	15 29 20.0
BOZ	EP	15 32 20.2
OCT 20		
H-15 44 34.2		
45.7N 149.7E		
h ABOUT 045KM		
COL	EP	15 51 53.0
BCN	E(P)	15 55 48.8
OCT 20		
H-15 53 48.1		
47.4N 149.0E		
h ABOUT 045KM		
COL	EP	16 00 57.0
BOZ	E(P)	16 04 06.0
	E▸P	04 18.9
BCN	EP	16 04 45.8
OCT 20		
COL	EP	15 57 56.0
OCT 20		
H-16 00 15.1		
44.3N 149.7E		
h ABOUT 045KM		
COL	IP	16 07 43.9
HHM	EP	16 10 32.8
	E▸P	10 44.8
BOZ	E(P)	16 10 53.0
	E▸P	11 05.0
EUR	EP	16 11 02.5
	E▸P	11 14.0
BCN	EP	16 11 21.3
	E▸P	11 32.3
ALQ	EP	16 11 55.0
	E	12 12.0
OCT 20		
ALQ	IP	16 10 38.0
	I	10 50.0
OCT 20		
BOZ	EP	16 14 30.5
	IS	14 46.0
BUT	EP	16 14 45.8
	ES	15 10.8
OCT 20		
SIT	E(P)	16 20 47.0
BCN	E(P)	16 21 19.8
OCT 20		
ALQ	EP	16 25 05.0
	E	25 19.0
BUT	EP	16 25 39.6
	E	26 12.6
OCT 20		
BCN	E(P)	16 31 09.8
	EL	31 31.3
GCA	E(P)	16 31 37.0
OCT 20		
H-17 41 27.3		
44.2N 149.6E		
h ABOUT 045KM		
COL	EP	17 48 56.0
BUT	EP	17 52 00.8
EUR	IP	17 52 15.4
	E	16 26.2
	E	16 36.0
BCN	EP	17 52 34.3
	E▸P	52 44.8
GCA	E(P)	17 52 41.1
TUC	EP	17 53 03.0
	E▸P	53 13.0
ALQ	EP	17 53 08.0
	E▸P	53 18.0
HON	E(S)	17 57 34.0
	EL	18 04 18.0
OCT 20		
COL	EP	18 01 50.0
BOZ	EP	18 04 56.8

Date and Station	Phase (GCT)
	h m s
OCT 20	
H-17 58 58.7	
44.2N 149.6E	
h ABOUT 045KM	
COL EP	18 06 27.0
HHM IP	18 09 17.3
E	09 38.8
BUT EP	18 09 32.3
BOZ IP	18 09 36.0
I▸P	13 47.5
EUR IP	18 09 45.5
E▸P	09 58.0
E	10 32.0
BCN EP	18 10 04.8
E▸P	10 16.8
I▸P	10 22.2
GCA EP	18 10 11.5
TUC EP	18 10 33.0
E▸P	10 45.0
OCT 20	
COL EP	19 16 52.0
OCT 20	
H-19 47 14.3	
44.2N 149.6E	
h ABOUT 045KM	
COL EP	19 54 42.0
HHM IP	19 57 30.8
E▸P	57 42.8
BOZ EP	19 57 52.3
BCN EP	19 58 20.7
TUC E(P)	19 58 47.0
ALQ EP	19 58 55.0
I	59 11.0
OCT 20	
BCN E(P)	20 01 40.2
E(L)	02 23.2
OCT 20	
H-20 16 07.7	
24.0S 177.6W	
h ABOUT 605KM	
TUC E(P)	20 27 40.0
E	27 56.0
EUR EP	20 28 01.4
E	28 12.0
E	28 17.8
BOZ IP	20 28 12.0
E	28 26.0
OCT 20	
BCN E(P)	20 19 23.7
EL	20 09.7

Date and Station	Phase (GCT)
	h m s
OCT 20	
H-21 08 21.7	
45.0N 149.8E	
h ABOUT 040KM	
COL EP	21 15 45.0
HHM E(P)	21 18 48.8
EUR EP	21 19 07.2
E▸P	19 19.0
BCN EP	21 19 26.2
E▸P	19 38.8
ALQ IP	21 20 00.0
OCT 20	
COL EP	21 18 25.0
OCT 20	
BOZ EP	21 25 54.0
OCT 20	
HHM IP	21 41 26.8
IS	41 47.8
OCT 20	
BOZ EP	22 18 55.8
OCT 20	
H-22 40 09.8	
45.7N 149.1E	
h ABOUT 040KM	
COL EP	22 47 30.0
OCT 20	
H-22 47 53.3	
44.2N 149.7E	
h ABOUT 040KM	
COL EP	22 55 22.0
OCT 20	
H-22 52 08.8	
45.9N 151.7E	
h ABOUT 040KM	
COL EP	22 59 19.0
HHM EP	23 02 13.8
BOZ EP	23 02 33.0
EUR EP	23 02 43.5
BCN EP	23 03 03.2
TUC E(P)	23 03 33.0
OCT 21	
BCN IP	01 01 34.6
IS	01 36.0
OCT 21	
BOZ EP	01 32 24.0
OCT 21	
H-01 39 56.7	
43.9N 146.3E	
h ABOUT 033KM	
COL EP	01 47 40.0

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	01 51 12.0
OCT 21	
BHP IP	01 52 57.0
IS	53 22.0
OCT 21	
H-02 16 38.1	
44.3N 149.9E	
h ABOUT 065KM	
COL EP	02 24 04.0
BOZ EP	02 27 14.5
BCN E(P)	02 27 50.7
ALQ E(P)	02 28 24.0
OCT 21	
H-02 22 11.5	
44.2N 151.6E	
h ABOUT 033KM	
COL EP	02 29 35.0
BOZ EP	02 32 45.0
TUC E(P)	02 33 41.0
OCT 21	
HHM EP	02 25 39.8
EUR EP	02 25 55.5
TUC E(P)	02 26 37.0
E	27 34.0
OCT 21	
BHP IP	02 27 17.0
IS	27 41.0
OCT 21	
H-02 31 39.3	
22.9S 172.1E	
h ABOUT 054KM	
BCN EP	02 44 36.6
EUR EP	02 44 40.5
OCT 21	
H-02 47 48.9	
45.1N 151.3E	
h ABOUT 033KM	
COL EP	02 55 07.0
OCT 21	
H-03 03 33.6	
44.0N 149.7E	
h ABOUT 045KM	
COL EP	03 11 04.0
HHM E(P)	03 13 50.0
E	14 07.8
BOZ EP	03 14 13.0
EUR EP	03 14 21.8
E▸P	14 33.7
E▸P	14 39.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	03 14 57.6
OCT 21	
H-03 14 53.6	
44.0N 149.9E	
h ABOUT 033KM	
COL EP	03 22 27.0
ALQ E(P)	03 26 35.0
OCT 21	
RCD E(P)	03 15 05.0
OCT 21	
GUA EP	04 36 03.2
OCT 21	
COL EP	04 49 41.0
OCT 21	
COL EP	05 53 53.0
OCT 21	
ALQ EP	06 15 31.0
OCT 21	
COL EP	06 19 53.0
ALQ E(P)	06 19 37.0
OCT 21	
TUC E(P)	09 00 15.0
E	00 34.0
BCN E(P)	09 01 23.8
EL	02 38.8
ALQ E(P)	09 01 27.0
OCT 21	
H-09 18 46.7	
23.6S 176.1W	
h ABOUT 033KM	
BCN EP	09 31 11.4
TUC EP	09 31 14.8
EUR EP	09 31 17.0
GCA E(P)	09 31 24.8
ALQ IP	09 31 36.0
BOZ E(P)	09 31 46.0
COL IP	09 31 49.1
OCT 21	
KIP I	09 19 25.0
OCT 21	
H-09 40 14.6	
44.7N 150.3E	
h ABOUT 055KM	
COL IP	09 47 37.3
HHM EP	09 50 27.8
▸P	50 43.9
BUT E(P)	09 50 42.0

Date and Station	Phase	(GCT) h m s
BOZ	EP	09 50 48.2
	I▸P	51 04.0
EUR	EP	09 50 57.2
	E▸P	51 12.3
	E	51 16.5
BCN	EP	09 51 16.7
	E▸P	51 32.1
	E	51 37.3
TUC	E(P)	09 51 45.0
OCT 21		
H-10 07 52.9		
45.0N 150.3E		
h ABOUT 055KM		
COL	EP	10 15 14.0
HHM	EP	10 18 05.8
	▸P	18 19.8
BOZ	IP	10 18 25.1
BUT	E(P)	10 18 34.0
EUR	EP	10 18 34.0
	E▸P	18 48.5
	EsP	18 56.5
BCN	EP	10 18 53.4
	E▸P	18 07.4
	EsP	18 15.4
RCD	E(P)	10 19 13.0
TUC	E(P)	10 19 22.0
OCT 21		
H-10 09 32.1		
46.3N 148.2E		
h ABOUT 055KM		
BOZ	IP	10 20 05.5
BCN	EP	10 20 34.4
OCT 21		
TUC	E(P)	11 09 47.0
OCT 21		
TUC	IP	11 17 47.5
ALQ	EP	11 18 30.0
	I	18 41.0
GCA	IP	11 18 36.9
	IS	19 25.2
BCN	IP	11 18 50.3
	IL	19 46.0
OCT 21		
COL	EP	11 53 37.0
KIP	E	12 00 58.0
OCT 21		
H-13 09 05.4		
45.2N 151.6E		
h ABOUT 045KM		
COL	IP	13 16 20.0
HHM	EP	13 19 13.7
	E▸P	19 26.8
BOZ	EP	13 19 33.0
EUR	EP	13 19 42.1
BCN	EP	13 20 00.9
GCA	E(P)	13 20 09.5
TUC	E(P)	13 20 31.0
OCT 21		
H-13 09 34.6		
03.3S 150.2E		
h ABOUT 043KM		
COL	EP	13 21 48.0
OCT 21		
H-13 27 10.6		
26.0S 179.9E		
h ABOUT 397KM		
TUC	EP	13 39 18.0
OCT 21		
COL	EP	14 33 37.0
OCT 21		
H-14 49 14.9		
38.4N 073.3E		
h ABOUT 084KM		
COL	IP	15 00 30.8
OCT 21		
COL	EP	14 49 45.0
OCT 21		
H-15 35 35.4		
44.6N 150.5E		
h ABOUT 050KM		
COL	IP	15 42 57.7
HHM	EP	15 45 49.6
BCN	EP	15 46 36.3
	E▸P	46 50.3
OCT 21		
H-15 38 24.3		
45.5N 149.7E		
h ABOUT 055KM		
COL	IP	15 45 43.6
HHM	IP	15 48 36.3
	▸P	48 51.3
BUT	IP	15 48 51.0
	E▸P	49 07.0
BOZ	IP	15 48 55.8
SLC	EP	15 49 14.2
FGU	IP	15 49 23.7
BCN	IP	15 49 25.3
	I▸P	49 40.1
RCD	EP	15 49 31.0
TUC	EP	15 49 54.0
	E▸P	50 10.0
ALQ	IP	15 49 59.5
	I▸P	50 15.0
OCT 21		
BOZ	EP	15 44 10.0
	I	44 22.0
OCT 21		
COL	IP	16 15 48.2
OCT 21		
H-17 20 46.0		
44.1N 150.3E		
h ABOUT 065KM		
COL	IP	17 28 11.6
HHM	EP	17 30 58.8
BUT	IP	17 31 16.0
BOZ	EP	17 31 20.0
SLC	EP	17 31 41.7
BCN	EP	17 31 47.4
	I▸P	32 04.5
FGU	EP	17 31 49.1
GCA	EP	17 31 55.7
TUC	EP	17 32 17.0
	E▸P	32 33.0
ALQ	EP	17 32 22.0
OCT 21		
COL	IP	17 53 44.9
OCT 21		
FGU	EP	18 31 21.6
	IS	31 40.6
OCT 21		
BUT	EP	19 31 43.4
OCT 21		
GUA	E(P)	19 39 27.0
OCT 21		
COL	EP	20 09 28.0
OCT 21		
H-20 39 39.3		
44.2N 151.0E		
h ABOUT 050KM		
COL	IP	20 47 04.4
HHM	E(P)	20 49 42.8
	E	50 07.7
BOZ	EP	20 50 12.1
EUR	IP	20 50 26.1
	E	50 35.7
BCN	EP	20 50 40.2
	E▸P	50 54.0
	E	51 06.7
GCA	EP	20 50 48.9
TUC	E(P)	20 51 09.0
	E▸P	51 23.0
ALQ	EP	20 51 12.0
	E▸P	51 27.0
OCT 21		
ALQ	EP	20 43 26.0
OCT 21		
H-21 15 48.8		
43.3N 152.5E		
h ABOUT 020KM		
EUR	EP	21 26 32.0
	E	26 42.0
OCT 21		
TUC	E(P)	21 29 48.0
OCT 21		
BOZ	EP	22 58 32.0
OCT 21		
H-23 18 41.3		
44.0N 150.3E		
h ABOUT 050KM		
COL	IP	23 26 09.9
HHM	IP	23 28 58.7
BOZ	EP	23 29 16.0
BCN	EP	23 29 45.3
	E▸P	29 59.8
	EsP	30 07.3
FGU	EP	23 29 46.7
GCA	EP	23 29 54.2
TUC	EP	23 30 14.0
	E▸P	30 29.0
ALQ	IP	23 30 19.5
	I▸P	30 34.0
OCT 21		
H-23 29 21.3		
44.1N 150.2E		
h ABOUT 055KM		
COL	IP	23 36 48.6
HHM	IP	23 39 38.7
BOZ	IP	23 39 57.0
	I	43 55.0
EUR	IP	23 40 06.0
	I▸P	40 21.4
	IsP	40 28.4
BCN	EP	23 40 24.4
	E▸P	40 39.0
	EsP	40 47.0

Date and Station	Phase (GCT)
	h m s
FGU EP	23 40 25.7
GCA IP	23 40 34.7
TUC EP	23 40 54.0
EsP	41 19.0
ALQ IP	23 40 58.5
IpP	41 14.0
OCT 21	
H-23 33 16.1	
44.2N 149.0E	
h ABOUT 055KM	
COL IP	23 40 45.6
HHM IP	23 43 35.9
pP	43 49.7
BUT E(P)	23 44 03.0
EUR EP	23 44 04.5
IpP	44 18.5
BCN EP	23 44 22.9
EpP	44 37.0
FGU E(P)	23 44 24.2
TUC EP	23 44 52.0
EpP	45 07.0
ALQ IP	23 44 57.0
IpP	45 12.0
OCT 21	
BCN IP	23 35 58.9
IS	35 10.9
OCT 21	
EUR E(P)	23 48 07.7
OCT 22	
COL EP	00 27 36.0
OCT 22	
GCA EP	00 51 17.2
OCT 22	
H-01 01 14.8	
13.7N 121.6E	
h ABOUT 015KM	
COL IP	01 13 14.7
OCT 22	
COL EP	01 46 38.0
OCT 22	
H-02 29 06.9	
44.3N 151.2E	
h ABOUT 045KM	
COL IP	02 36 30.3
EUR EP	02 39 48.7
EpP	40 01.0
BCN EP	02 40 06.8
EpP	40 19.3
TUC E(P)	02 40 37.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	02 40 41.0
OCT 22	
HHM IP	02 33 26.9
OCT 22	
H-03 17 15.2	
45.0N 150.2E	
h ABOUT 045KM	
COL IP	03 24 37.3
HHM IP	03 27 28.7
BUT EP	03 27 43.0
BOZ EP	03 27 48.0
EUR EP	03 27 57.2
EpP	28 09.4
I	28 12.7
SLC EP	03 28 08.2
FGU EP	03 28 15.8
BCN EP	03 28 16.0
EpP	28 27.5
E	28 31.5
RCD EP	03 28 24.0
E(pP)	28 38.0
GCA EP	03 28 25.2
TUC EP	03 28 46.0
E	29 02.0
ALQ EP	03 28 49.0
E	29 06.0
HON ES	03 33 00.0
EL	39 10.0
OCT 22	
H-03 25 38.8	
43.9N 150.3E	
h ABOUT 050KM	
COL IP	03 33 06.9
HHM IP	03 35 56.7
BOZ EP	03 36 12.0
E	36 17.0
EUR EP	03 36 24.9
EpP	36 38.2
BCN EP	03 36 43.7
EpP	36 57.7
E	37 23.0
RCD E(P)	03 36 50.0
GCA EP	03 36 52.5
TUC EP	03 37 13.0
ALQ EP	03 37 17.0

Date and Station	Phase (GCT)
	h m s
OCT 22	
H-04 29 11.7	
51.0N 179.4E	
h ABOUT 055KM	
HHM IP	04 36 57.7
BUT EP	04 37 18.0
BOZ IP	04 37 19.1
EUR EP	04 37 28.2
EpP	37 39.3
BCN EP	04 37 49.7
E	38 03.2
FGU E(P)	04 37 51.3
RCD EP	04 38 04.5
EpP	38 15.0
GCA E(P)	04 38 08.5
TUC E(P)	04 38 27.0
EpP	38 39.0
ALQ IP	04 38 34.0
IpP	38 45.0
SJP EP	04 42 09.5
OCT 22	
SLC E(P)	04 37 01.2
OCT 22	
COL EP	04 41 04.0
OCT 22	
COL EP	04 45 03.0
OCT 22	
H-04 49 17.0	
44.5N 149.1E	
h ABOUT 033KM	
COL IP	04 56 47.4
EUR EP	05 00 07.0
E	00 11.1
E	00 19.3
E	01 23.5
TUC E(P)	05 00 54.0
OCT 22	
BHP IP	05 45 59.0
IS	46 14.5
OCT 22	
COL EP	05 56 50.0
OCT 22	
H-06 37 43.8	
44.8N 152.1E	
h ABOUT 050KM	
COL IP	06 44 59.4
OCT 22	
ALQ EP	07 20 48.0
OCT 22	
COL EP	07 47 03.0

Date and Station	Phase (GCT)
	h m s
OCT 22	
COL EP	09 19 11.0
OCT 22	
FGU IP	09 23 06.3
OCT 22	
BUT IP	09 58 02.0
OCT 22	
TUC E(P)	10 11 30.0
COL EP	10 15 16.0
OCT 22	
H-10 18 14.5	
44.2N 150.3E	
h ABOUT 050KM	
COL IP	10 25 41.3
EUR EP	10 28 59.8
BCN EP	10 29 17.5
EpP	29 32.0
EsP	29 39.5
RCD E(P)	10 29 25.0
GCA E(P)	10 29 26.7
TUC EP	10 29 47.0
ALQ IP	10 29 52.0
OCT 22	
H-10 26 28.5	
43.6N 148.1E	
h ABOUT 050KM	
COL EP	10 34 06.0
OCT 22	
H-10 45 32.2	
44.1N 150.5E	
h ABOUT 033KM	
COL EP	10 53 00.0
OCT 22	
COL EP	11 34 24.0
OCT 22	
FGU IP	11 57 08.4
IS	57 36.4
OCT 22	
H-12 05 30.8	
45.3N 151.7E	
h ABOUT 033KM	
COL IP	12 12 46.3
OCT 22	
H-12 19 17.5	
45.1N 151.8E	
h ABOUT 020KM	
COL IP	12 26 35.5
OCT 22	
H-12 49 32.6	
45.6N 151.7E	
h ABOUT 050KM	

Date and Station	Phase	Phase (GCT) h m s
COL	EP	12 56 44.0
EUR	EP	13 00 06.0
	EpP	00 19.5
OCT 22		
H-13 27 05.2		
44.5N 149.8E		
h ABOUT 033KM		
COL	IP	13 34 33.0
EUR	EP	13 37 53.0
OCT 22		
TUC	E(P)	13 27 12.0
OCT 22		
COL	EP	14 01 54.0
OCT 22		
H-14 07 32.4		
16.2S 173.9W		
h ABOUT 033KM		
COL	EP	14 19 56.9
OCT 22		
COL	EP	14 09 26.0
OCT 22		
COL	IP	15 16 36.0
OCT 22		
H-15 35 26.1		
11.6S 166.3E		
h ABOUT 080KM		
COL	IP	15 47 46.5
TUC	E(P)	15 48 22.0
BCN	E(P)	15 48 25.0
OCT 22		
H-16 00 43.8		
43.5N 150.4E		
h ABOUT 105KM		
COL	EP	16 08 06.0
OCT 22		
ALQ	EP	18 21 16.0
OCT 22		
COL	IP	18 36 33.7
OCT 22		
BCN	IP	18 46 04.3
	IS	46 16.3
OCT 22		
ALQ	EP	19 04 23.0
OCT 22		
H-19 14 14.1		
45.3N 149.4E		
h ABOUT 033KM		
COL	IP	19 21 37.6
EUR	EP	19 25 00.0
	I	25 15.5
RCD	E(P)	19 25 24.0
TUC	EP	19 25 48.3
	E	26 02.2
OCT 22		
BCN	EP	19 24 48.8
	E	25 02.3
OCT 22		
H-19 26 14.2		
44.3N 152.3E		
h ABOUT 033KM		
COL	IP	19 33 35.2
EUR	EP	19 36 53.5
ALQ	E(P)	19 37 46.0
OCT 22		
BUT	E(P)	20 32 15.0
OCT 22		
FGU	IP	20 56 10.3
	IS	56 30.1
OCT 22		
TUC	E(P)	21 43 05.0
	E	44 12.0
OCT 22		
TUC	E(P)	22 16 30.0
	E(S)	17 11.0
OCT 22		
ALQ	E(P)	22 20 06.0
OCT 22		
H-23 03 39.5		
44.0N 152.4E		
h ABOUT 020KM		
COL	IP	23 11 03.3
EUR	EP	23 14 20.4
ALQ	E(P)	23 15 18.0
OCT 23		
EUR	IP	00 01 07.3
	I	01 56.3
	I	02 00.3
OCT 23		
H-00 06 09.0		
45.7N 151.6E		
h ABOUT 020KM		
COL	IP	00 13 24.1
HHM	E(P)	00 16 28.6
BCN	EP	00 17 06.7
RCD	E(P)	00 17 13.0
TUC	IP	00 17 36.0
	E	17 48.0
ALQ	EP	00 17 39.0
OCT 23		
BCN	IP	00 52 15.0
	IS	52 27.0
OCT 23		
H-01 01 31.3		
44.2N 152.0E		
h ABOUT 033KM		
COL	IP	01 08 53.2
EUR	EP	01 12 11.2
OCT 23		
TUC	E(P)	01 43 18.0
OCT 23		
H-02 38 18.6		
45.6N 150.1E		
h ABOUT 025KM		
COL	IP	02 45 40.2
HHM	EP	02 48 33.6
BOZ	IP	02 48 53.0
TUC	E(P)	02 48 55.0
EUR	EP	02 49 03.0
	E	49 13.2
	E	49 18.5
BCN	EP	02 49 22.1
	E	49 33.0
ALQ	EP	02 49 55.0
OCT 23		
BOZ	E(P)	03 13 01.0
OCT 23		
GUA	EP	03 17 24.3
OCT 23		
H-03 46 31.8		
23.5S 111.9W		
h ABOUT 033KM		
TUC	EP	03 56 06.5
RCD	E(P)	03 57 27.0
OCT 23		
H-04 24 06.2		
31.4S 068.7W		
h ABOUT 110KM		
TUC	E(P)	04 35 36.0
ALQ	IP	04 35 38.0
	I	35 56.0
GCA	IP	04 35 57.3
BCN	EP	04 36 04.5
	EpP	36 31.0
FGU	IP	04 36 11.3
RCD	E(P)	04 36 13.0
EUR	IP	04 36 21.6
	EpP	36 48.7
	EsP	37 03.2
OCT 23		
TUC	E(P)	04 49 00.0
OCT 23		
H-05 32 33.9		
45.0N 151.2E		
h ABOUT 045KM		
COL	IP	05 39 51.7
EUR	EP	05 43 13.5
	EpP	43 27.2
BCN	E(P)	05 43 37.0
	EpP	43 48.5
OCT 23		
H-05 35 38.5		
44.3N 149.9E		
h ABOUT 045KM		
COL	IP	05 43 05.6
OCT 23		
BOZ	EP	05 49 16.0
OCT 23		
H-06 33 25.3		
24.0S 176.0W		
h ABOUT 119KM		
TUC	E(P)	06 45 47.0
COL	EP	06 46 18.0
OCT 23		
H-07 56 12.3		
12.0S 166.5E		
h ABOUT 107KM		
COL	IP	08 08 30.1
BCN	E(P)	08 09 06.0
	E	09 19.0
	EpP	09 29.0
TUC	E(P)	08 09 11.0
OCT 23		
ALQ	E(P)	08 09 51.0
OCT 23		
H-08 15 15.4		
44.3N 149.4E		
h ABOUT 050KM		
COL	IP	08 22 44.5
BOZ	EP	08 25 55.0
EUR	EP	08 26 03.8
	EpP	26 17.0
BCN	EP	08 26 22.5
	EpP	26 35.5
RCD	E(P)	08 26 29.0
TUC	E(P)	08 26 51.0

Date and Station	Phase (GCT)
	h m s
ALQ IP	08 26 56.0
I▸P	27 10.0
OCT 23	
BCN IP	08 22 03.0
OCT 23	
HHM E(P)	08 28 54.0
OCT 23	
H-09 47 08.1	
41.2N 144.2E	
h ABOUT 050KM	
COL IP	09 55 15.0
HHM EP	09 57 58.6
BOZ IP	09 58 17.0
I▸P	58 30.5
EUR IP	09 58 26.1
I▸P	58 38.0
SLC IP	09 58 35.8
BCN EP	09 58 42.9
E▸P	58 56.4
FGU IP	09 58 43.8
I▸P	58 58.4
GCA IP	09 58 46.4
RCD IP D	09 58 49.8
TUC IP D	09 59 11.0
E▸P	59 24.0
ALQ IP	09 59 16.0
I▸P	59 30.0
OCT 23	
GUA E(P)	09 53 13.4
OCT 23	
COL EP	10 02 08.0
OCT 23	
H-10 50 22.2	
45.8N 152.7E	
h ABOUT 050KM	
COL EP	10 57 29.0
OCT 23	
H-11 18 18.0	
44.4N 149.5E	
h ABOUT 045KM	
COL EP	11 25 46.0
HHM EP	11 28 37.6
BOZ EP	11 28 56.5
I▸P	29 08.0
BCN EP	11 29 23.9
E	29 39.4
RCD E(P)	11 29 31.0
TUC E(P)	11 29 53.0

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	11 30 05.0
OCT 23	
COL IP	11 50 12.9
OCT 23	
GUA IP	11 54 07.4
IS	54 20.7
OCT 23	
SLC IP	11 57 03.3
IS	57 16.1
OCT 23	
H-12 10 33.2	
46.6N 151.9E	
h ABOUT 035KM	
COL EP	12 17 38.0
OCT 23	
BOZ EP	15 49 23.0
OCT 23	
ALQ EP	16 10 40.0
OCT 23	
BHP IP	17 47 30.5
IS	47 54.0
OCT 23	
EUR IP	18 06 12.9
OCT 23	
H-18 34 38.0	
45.4N 152.3E	
h ABOUT 050KM	
COL EP	18 41 48.0
BOZ EP	18 45 02.0
OCT 23	
ALQ EP	19 34 32.0
OCT 23	
H-20 04 06.7	
16.6N 062.2W	
h ABOUT 033KM	
SJP IP	20 05 08.5
ALQ IP	20 12 09.0
TUC E(P)	20 12 33.0
OCT 23	
H-20 14 28.6	
25.9S 178.8W	
h ABOUT 343KM	
TUC EP	20 26 36.0
OCT 23	
H-20 24 05.5	
19.4N 155.5W	
h ABOUT 005KM	
HON EP	20 24 52.0
IS	25 26.0
KIP IP	20 24 52.4
IS	25 25.0

Date and Station	Phase (GCT)
	h m s
BCN EP	20 31 38.7
E	31 56.0
E	32 04.0
GCA I(P)	20 31 54.2
TUC EP	20 32 00.0
HHM EP	20 32 17.5
BOZ IP	20 32 19.9
COL IP	20 32 29.6
ALQ IP	20 32 31.0
I	32 43.0
OCT 23	
H-21 18 13.8	
44.3N 150.7E	
h ABOUT 040KM	
COL EP	21 25 39.0
BOZ EP	21 28 48.0
E▸P	29 00.0
OCT 23	
TUC IP	21 56 38.0
OCT 23	
ALQ E(P)	22 10 21.0
GCA EP	22 10 50.2
OCT 23	
H-22 11 13.1	
44.0N 151.3E	
h ABOUT 020KM	
COL EP	22 18 41.1
BOZ EP	22 21 50.0
EUR IP	22 21 58.2
E	22 08.0
TUC E(P)	22 22 46.0
OCT 23	
ALQ E(P)	22 59 19.0
OCT 23	
BCN IP	23 05 14.7
IS	05 26.7
OCT 23	
SLC IP	23 49 37.9
IS	50 03.3
EUR EP	23 50 20.6
ES	50 56.6
GCA EP	23 50 29.0
OCT 23	
BOZ IP	23 59 43.0
OCT 24	
H-01 06 25.9	
44.5N 150.3E	
h ABOUT 045KM	
COL IP	01 13 50.4

Date and Station	Phase (GCT)
	h m s
HHM EP	01 16 41.5
BUT E(P)	01 16 59.0
E▸P	17 10.2
BOZ E(P)	01 17 01.0
E▸P	17 14.8
EUR EP	01 17 10.1
E▸P	17 23.9
SLC E(P)	01 17 27.3
BCN EP	01 17 29.2
E▸P	17 41.8
RCD E(P)	01 17 36.0
E▸P	17 50.0
GCA E(P)	01 17 46.7
TUC E(P)	01 17 58.0
E(▸P)	18 15.0
ALQ IP	01 18 04.0
I▸P	18 19.0
HON ES	01 22 14.0
EL	28 14.0
OCT 24	
COL EP	01 27 11.0
OCT 24	
BOZ EP	01 27 18.0
ES	27 53.0
OCT 24	
SJP EP	01 36 38.8
EL	37 21.0
OCT 24	
COL EP	02 39 24.0
OCT 24	
BOZ E(P)	03 02 50.0
E(S)	03 19.0
OCT 24	
COL EP	04 15 38.0
OCT 24	
COL EP	05 21 02.0
OCT 24	
BCN EP	06 36 06.1
E	36 10.6
E	36 21.6
OCT 24	
BCN EP	06 39 12.1
OCT 24	
H-06 44 18.5	
04.3N 078.4W	
h ABOUT 038KM	
BHP IP	06 45 26.5
IS	46 16.5
SJP EP	06 48 33.4
ALQ IP	06 51 52.5
I	52 00.0

Date and Station	Phase	(GCT) h m s
TUC	EP	06 52 02.0
GCA	IP	06 52 29.8
RCD	EP	06 52 33.0
BCN	EP	06 52 40.4
EUR	EP	06 53 02.3
	E	53 49.5
	EPCP	54 28.0
BOZ	IP	06 53 13.0
HHM	EP	06 53 36.5
COL	IP	06 56 10.7
OCT 24		
H-06 57 24.3		
19.2N 121.3E		
h ABOUT 072KM		
HHM	IP	07 10 48.2
OCT 24		
COL	IP	07 03 18.7
BCN	EP	07 07 08.6
OCT 24		
H-07 24 03.1		
4.4N 078.5W		
h ABOUT 033KM		
BHP	IP	07 25 12.0
	IS	26 04.5
SJP	EP	07 28 17.3
TUC	EP	07 31 46.0
BCN	E(P)	07 31 59.1
	E	32 07.1
HHM	EP	07 33 19.5
OCT 24		
H-07 26 23.9		
4.9S 102.9E		
h ABOUT 050KM		
GUA	IP	07 34 39.5
COL	EP	07 40 15.0
	EPP	44 29.0
HHM	EP'	07 45 23.5
RCD	EP'	07 45 27.0
BUT	EP'	07 45 27.2
	EPP	47 16.2
BOZ	EP'	07 45 29.0
BCN	EP'	07 45 29.1
	EPP	47 58.3
	I	48 05.5
TUC	EP'	07 45 38.0
	ESKP	49 20.0
SLC	IP'	07 45 38.1

Date and Station	Phase	(GCT) h m s
GCA	EP'	07 45 41.0
SJP	EP'1	07 46 20.8
	EpP'	46 35.8
	EP'2	47 10.8
	EpP'2	47 23.5
	EPP	50 50.3
OCT 24		
RCD	E(P)	07 47 43.0
	E	49 08.0
OCT 24		
H-08 03 55.8		
45.1N 150.0E		
h ABOUT 055KM		
COL	EP	08 11 16.0
OCT 24		
ALQ	EP	09 31 37.0
OCT 24		
ALQ	IP	09 45 41.0
	I	45 55.0
OCT 24		
ALQ	IP	09 49 24.0
	I	49 34.0
OCT 24		
H-09 52 37.4		
44.4N 114.8W		
h ABOUT 033KM		
BUT	EP	09 53 13.2
	ES	53 45.2
EUR	EP	09 53 53.0
	EL	55 01.0
OCT 24		
TUC	E(P)	10 25 37.0
OCT 24		
BCN	E(P)	10 43 49.1
	E	43 57.0
OCT 24		
H-11 03 52.4		
45.7N 151.1E		
h ABOUT 045KM		
COL	IP	11 11 05.9
OCT 24		
BCN	EP	11 32 50.4
	E	32 59.9
	I	33 06.4
OCT 24		
BCN	EP	11 42 56.8
	E	43 06.8
	E	43 11.8
OCT 24		
BCN	IP	12 45 27.4
	EpP	46 03.9
	EPP	48 15.4
OCT 24		
H-13 01 36.0		
58.1N 144.7W		
h ABOUT 033KM		

Date and Station	Phase	(GCT) h m s
SIT	E(P)	13 02 51.5
	ES	03 52.0
COL	EP	13 03 16.0
OCT 24		
COL	EP	13 28 14.0
OCT 24		
SLC	IP	13 42 44.5
	IS	43 07.3
BOZ	EP	13 43 10.2
	ES	43 46.0
OCT 24		
H-13 45 09.9		
44.0N 150.8E		
h ABOUT 040KM		
COL	E(P)	13 52 46.0
HHM	EP	13 55 27.5
	E	55 39.5
BCN	EP	13 56 13.7
	E	56 24.7
GCA	EP	13 56 20.7
TUC	EP	13 56 42.2
	E	56 53.0
ALQ	IP	13 57 00.0
OCT 24		
ALQ	IP	13 56 08.4
OCT 24		
COL	EP	14 01 15.0
OCT 24		
BCN	EP	14 56 07.6
OCT 24		
H-15 24 06.0		
44.8N 149.9E		
h ABOUT 045KM		
COL	IP	15 31 31.4
RCD	E(P)	15 35 28.0
TUC	E(P)	15 35 38.0
OCT 24		
FGU	IP	16 49 55.4
	IS	50 15.4
OCT 24		
BCN	IP	17 01 07.0
	I	01 18.2
OCT 24		
BCN	EP	17 15 57.7
OCT 24		
H-19 03 30.8		
38.4N 070.3E		
h ABOUT 183KM		
BCN	EP	19 17 19.8

Date and Station	Phase	(GCT) h m s
OCT 24		
H-19 19 10.2		
28.3N 128.5E		
h ABOUT 033KM		
GUA	E(P)	19 23 54.5
COL	IP	19 29 27.6
HHM	EP	19 31 47.0
BUT	EP	19 31 58.2
EUR	EP	19 32 07.7
BCN	EP	19 32 21.1
FGU	IP	19 32 21.5
	I	33 19.6
RCD	E(P)	19 32 47.0
ALQ	E(P)	19 32 48.0
OCT 24		
ALQ	E(P)	19 34 50.0
OCT 24		
ALQ	E(P)	19 45 22.0
OCT 24		
H-20 18 12.7		
44.4N 149.7E		
h ABOUT 045KM		
COL	IP	20 25 41.0
HHM	EP	20 28 31.5
EUR	IP	20 28 59.6
	EpP	29 11.8
	IsP	29 17.8
BCN	EP	20 29 18.8
	EpP	29 31.0
	E	29 36.3
RCD	E(P)	20 29 24.0
GCA	E(P)	20 29 26.1
TUC	EP	20 29 47.0
	EpP	30 01.0
ALQ	IP	20 29 53.0
	IpP	30 06.0
	IsP	30 12.0
OCT 24		
FGU	EP	20 29 34.0
OCT 24		
H-21 53 25.0		
45.3N 151.5E		
h ABOUT 040KM		
COL	IP	22 00 40.7
OCT 24		
HHM	E(P)	22 58 11.0
OCT 24		
GCA	EP	23 30 38.7

Date and Station	Phase (GCT)
	h m s
OCT 24	
SLC E(P)	23 48 00.2
OCT 25	
H-01 08 35.5	
44.7N 149.5E	
h ABOUT 050KM	
EUR EP	01 19 20.5
OCT 25	
COL EP	01 45 49.0
OCT 25	
BCN IP	02 41 09.7
IS	41 21.2
GCA E(P)	02 41 41.3
OCT 25	
COL E(P)	04 56 36.0
E	58 20.5
OCT 25	
H-05 48 51.1	
45.0N 150.7E	
h ABOUT 050KM	
COL IP	05 56 10.3
EUR E(P)	05 59 25.3
BCN EP	05 59 50.2
EpP	06 00 02.5
OCT 25	
H-06 02 06.6	
52.0N 174.8E	
h ABOUT 070KM	
COL IP	06 07 06.7
HHM EP	06 10 09.5
EUR IP	06 10 41.7
E	11 25.6
BCN EP	06 11 05.0
EpP	11 21.5
RCD E(P)	06 11 17.0
TUC EP	06 11 41.0
ALQ EP	06 11 47.0
OCT 25	
H-06 27 58.5	
44.3N 150.4E	
h ABOUT 050KM	
COL EP	06 35 23.0
BCN E(P)	06 39 07.0
E	39 16.9
OCT 25	
EUR EP	06 43 51.9
OCT 25	
H-07 29 02.0	
45.7N 151.3E	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL EP	07 36 17.0
BCN EP	07 39 58.0
E	40 09.5
RCD E(P)	07 40 17.0
TUC E(P)	07 40 28.0
OCT 25	
H-08 08 12.1	
43.7N 150.8E	
h ABOUT 045KM	
COL EP	08 15 40.0
EUR EP	08 18 57.3
IpP	19 09.3
OCT 25	
COL IP	10 09 51.9
OCT 25	
H-10 17 57.1	
45.3N 150.2E	
h ABOUT 040KM	
COL IP	10 25 18.2
HHM EP	10 28 11.0
BUT EP	10 28 26.0
EUR IP	10 28 39.5
IpP	28 51.4
BCN EP	10 28 58.0
IpP	29 10.2
FGU IP	10 28 58.5
GCA EP	10 29 06.4
RCD EP	10 29 07.0
TUC E(P)	10 29 28.0
ALQ IP	10 29 33.0
IpP	29 45.0
SLC E(P)	10 29 49.3
OCT 25	
COL IP	10 18 34.5
OCT 25	
COL E	11 11 09.0
OCT 25	
H-11 12 57.3	
44.0N 151.1E	
h ABOUT 045KM	
COL EP	11 20 22.0
EUR EP	11 23 40.3
EpP	23 52.1
BCN EP	11 23 58.7
TUC E(P)	11 24 28.0

Date and Station	Phase (GCT)
	h m s
OCT 25	
H-11 57 55.3	
45.1N 149.3E	
h ABOUT 070KM	
COL EP	12 05 17.0
OCT 25	
H-12 33 05.8	
44.5N 150.2E	
h ABOUT 045KM	
COL EP	12 40 31.0
EUR EP	12 43 51.0
EpP	44 04.0
BCN E(P)	12 44 16.9
EpP	44 31.9
OCT 25	
BCN E(P)	13 00 26.9
OCT 25	
GUA E(P)	13 01 15.0
OCT 25	
EUR EP	13 12 25.3
OCT 25	
COL EP	13 16 29.0
EUR E(P)	13 19 48.2
OCT 25	
H-15 05 22.2	
35.3N 116.9W	
h ABOUT 014KM	
BCN EP	15 05 52.6
I	05 55.6
IS	06 17.9
GCA EP	15 06 34.0
I	06 37.8
IL	07 40.4
TUC E(P)	15 06 50.0
EL	08 30.0
FGU E(P)	15 07 23.4
SLC E(P)	15 07 29.3
OCT 25	
H-15 07 10.1	
45.2N 150.6E	
h ABOUT 033KM	
COL EP	15 14 29.0
OCT 25	
ALQ EP	15 08 00.0
E	09 48.0
OCT 25	
H-15 20 40.0	
03.7S 104.0W	
h ABOUT 033KM	
TUC E(P)	15 27 46.0
ALQ EP	15 28 03.0

Date and Station	Phase (GCT)
	h m s
EUR EP	15 28 50.5
HHM EP	15 29 52.4
COL EP	15 32 21.0
OCT 25	
H-15 24 51.3	
11.7S 166.9E	
h ABOUT 149KM	
COL IP	15 37 04.3
TUC E(P)	15 37 34.0
OCT 25	
H-16 41 46.0	
44.3N 149.7E	
h ABOUT 020KM	
COL EP	16 49 17.0
OCT 25	
ALQ EP	18 49 37.0
OCT 25	
H-19 58 58.3	
12.3N 144.5E	
h ABOUT 029KM	
GUA IP	19 59 20.9
KIP EP	20 08 33.0
I	08 46.0
HON E(P)	20 08 38.0
IS	16 30.0
EL	24 14.0
COL EP	20 10 03.0
HHM IP	20 11 50.5
EUR IP	20 11 55.4
I	12 08.0
EPP	15 25.5
PKKP	29 12.4
BCN EP	20 12 04.3
I	12 16.9
GCA E(P)	20 12 19.3
TUC E(P)	20 12 27.0
E	12 37.0
RCD E(P)	20 12 34.0
ALQ EP	20 12 36.0
EPP	16 37.0
BUT E(P)	20 12 56.0
OCT 25	
GUA IP	20 10 56.5
E(S)	11 17.0
COT 25	
SLC E(P)	20 12 57.8
OCT 25	
GUA IP	20 21 17.0

Date and Station	Phase	(GCT) h m s
OCT 25		
ALQ	EP	20 31 57.0
OCT 25		
FGU	EP	20 42 16.0
OCT 25		
BUT	E(P)	20 43 57.0
OCT 25		
FGU	EP	21 02 31.5
	ES	02 57.8
OCT 25		
GUA	IP	21 25 20.2
	E(S)	25 41.2
OCT 25		
EUR	IP	22 25 53.3
	IL	26 13.2
OCT 25		
FGU	EP	22 29 54.6
	ES	30 16.6
OCT 25		
BCN	E(P)	22 45 27.7
	EL	46 03.7
OCT 25		
FGU	EP	22 52 50.9
	ES	53 10.8
OCT 25		
SLC	E(P)	23 04 40.6
OCT 25		
FGU	EP	23 14 46.6
OCT 25		
H-23 21 42.7		
13.4N 144.1E		
h ABOUT 057KM		
GUA	EP	23 21 58.0
OCT 25		
SLC	E(P)	23 45 42.3
OCT 26		
TUC	E(P)	00 03 29.0
	E(S)	04 59.0
OCT 26		
BOZ	IP	00 09 35.0
OCT 26		
GUA	IP	02 57 25.5
OCT 26		
H-03 55 39.7		
44.5N 150.1E		
h ABOUT 055KM		
COL	IP	04 03 04.8
KIP	E(P)	04 04 23.0
HHM	IP	04 05 54.2
BOZ	EP	04 06 15.0
BUT	E(P)	04 06 19.0
EUR	IP	04 06 24.3
	E▷P	06 39.2
SLC	E(P)	04 06 29.3
BCN	EP	04 06 43.1
	E▷P	06 58.9
	IPP	09 24.6
RCD	EP	04 06 50.0
GCA	EP	04 06 54.7
TUC	EP	04 07 12.0
	E▷P	07 28.0
ALQ	IP	04 07 17.0
	I▷P	07 33.0
HON	ES	04 11 42.0
	EL	17 42.0
OCT 26		
FGU	E(P)	04 36 44.2
OCT 26		
COL	EP	04 42 42.0
OCT 26		
BOZ	EP	04 59 25.0
	E	59 40.0
BCN	EP	05 00 07.7
TUC	E(P)	05 00 37.0
OCT 26		
H-05 01 31.5		
43.7N 150.5E		
h ABOUT 040KM		
COL	IP	05 09 01.3
HHM	IP	05 11 50.7
BOZ	IP	05 12 10.9
	I▷P	12 21.2
EUR	IP	05 12 18.8
	I▷P	12 29.8
BCN	EP	05 12 37.1
GCA	EP	05 12 44.7
RCD	E(P)	05 12 45.0
TUC	E(P)	05 13 06.0
ALQ	IP	05 13 12.0
OCT 26		
H-05 59 44.2		
44.5N 149.8E		
h ABOUT 060KM		
COL	EP	06 07 09.0
HHM	EP	06 09 58.2
	E▷P	10 15.2
BOZ	IP	06 10 19.0
	I▷P	10 34.0
EUR	EP	06 10 28.8
	I▷P	10 44.3
SLC	E(P)	06 10 34.9
BCN	EP	06 10 47.4
	I▷P	11 03.6
	I	11 17.9
GCA	EP	06 10 55.0
RCD	EP	06 10 56.0
	E▷P	11 11.0
TUC	IP	06 11 16.5
	E▷P	11 32.0
ALQ	IP	06 11 22.0
	I▷P	11 37.0
OCT 26		
H-06 25 19.4		
44.6N 154.2E		
h ABOUT 060KM		
COL	IP	06 32 28.4
HHM	E(P)	06 35 12.2
BOZ	EP	06 35 38.0
BCN	EP	06 36 06.1
	E	36 10.6
	E▷P	36 21.6
OCT 26		
H-06 27 53.8		
44.8N 149.6E		
h ABOUT 055KM		
COL	IP	06 35 19.0
BOZ	EP	06 38 30.0
	E▷P	38 44.0
BCN	E(P)	06 39 12.1
OCT 26		
COL	IP	06 29 23.5
ALQ	EP	06 30 46.0
BOZ	EP	06 32 34.0
OCT 26		
FGU	EP	06 40 47.1
OCT 26		
H-06 55 51.5		
44.7N 149.6E		
h ABOUT 060KM		
COL	EP	07 03 16.0
BCN	E(P)	07 07 08.6
OCT 26		
FGU	EP	07 02 54.3
OCT 26		
GUA	EP	07 24 12.5
	E	24 32.0
OCT 26		
H-07 24 28.7		
51.2N 177.5W		
h ABOUT 033KM		
COL	IP	07 29 07.1
HHM	IP	07 32 02.4
BOZ	EP	07 32 25.0
BCN	E(P)	07 32 59.1
	E	33 07.1
RCD	E(P)	07 33 12.0
TUC	E(P)	07 33 27.0
ALQ	EP	07 33 43.0
OCT 26		
BOZ	EP	07 36 27.0
OCT 26		
GUA	E(P)	07 53 26.3
OCT 26		
BOZ	EP	08 50 51.0
	IS	51 17.0
OCT 26		
COL	IP	09 37 33.9
OCT 26		
SIT	EP	09 59 42.3
	E	10 00 06.0
COL	EP	10 01 12.0
OCT 26		
H-10 32 36.7		
44.4N 149.5E		
h ABOUT 055KM		
BOZ	EP	10 43 14.2
	E	43 28.0
BCN	E(P)	10 43 49.1
	E	43 57.0
OCT 26		
COL	EP	10 57 35.0
OCT 26		
FGU	E(P)	11 02 49.9
OCT 26		
FGU	E(P)	11 12 56.4
OCT 26		
H-11 21 47.6		
44.7N 149.7E		
h ABOUT 055KM		
COL	IP	11 29 12.5
KIP	IP	11 30 27.6
HHM	EP	11 32 05.2
	E	32 18.2
BUT	EP	11 32 16.9

Date and Station	Phase (GCT)
	h m s
BOZ IP	11 32 23.2
I▸P	32 38.0
EUR IP	11 32 31.7
I	32 42.0
E▸P	32 47.0
SLC IP	11 32 43.3
BCN EP	11 32 50.4
E	32 59.9
I▸P	33 06.4
GCA EP	11 32 58.9
RCD EP	11 32 59.0
TUC EP	11 33 20.0
E▸P	33 35.0
ALQ IP	11 33 25.5
I▸P	33 41.0
HON E	11 37 50.0
EL	43 52.0
OCT 26	
H-11 31 53.0	
44.6N 149.8E	
h ABOUT 055KM	
COL IP	11 39 18.5
HHM EP	11 42 09.4
E	42 21.2
BUT EP	11 42 22.9
BOZ IP	11 42 29.0
I▸P	42 44.0
I	44 11.0
EUR EP	11 42 38.0
E	42 48.0
E▸P	42 53.0
BCN EP	11 42 56.8
E	43 06.8
E▸P	43 11.8
RCD EP	11 43 05.0
TUC EP	11 43 25.0
E▸P	43 40.0
ALQ IP	11 43 31.0
OCT 26	
OCT 26	
COL EP	11 58 50.0
OCT 26	
FGU IP	12 16 00.4
OCT 26	
COL EP	12 21 02.0
OCT 26	
COL EP	12 32 32.0
OCT 26	
H-12 33 50.1	
15.8S 174.0W	
h ABOUT 115KM	

Date and Station	Phase (GCT)
	h m s
HON IP	12 41 17.3
KIP IP	12 41 18.1
BCN IP D	12 45 27.4
E▸P	46 03.9
EPP	48 15.4
TUC IP D	12 45 33.0
E▸P	46 07.0
EUR IP	12 45 33.0
E▸P	46 06.0
EPP	48 27.0
GCA IP	12 45 43.1
SLC EP	12 45 49.3
ALQ IP	12 45 57.0
I	46 19.0
BUT EP	12 46 01.9
E▸P	46 35.9
HHM EP	12 46 04.2
BOZ IP	12 46 05.0
I▸P	46 39.0
RCD E(P)	12 46 28.0
OCT 26	
H-12 56 46.8	
02.7S 077.8W	
h ABOUT 033KM	
ALQ IP	13 05 08.0
TUC E(P)	13 05 16.0
BOZ EP	13 06 29.0
OCT 26	
TUC E(P)	13 00 29.0
OCT 26	
COL EP	13 35 10.0
OCT 26	
COL IP	13 58 28.3
BOZ EP	14 01 37.9
E	01 54.0
OCT 26	
H-14 44 49.2	
44.6N 149.7E	
h ABOUT 060KM	
BOZ EP	14 55 24.0
I▸P	55 39.0
EUR EP	14 55 33.5
I▸P	55 48.9
EsP	55 56.5
OCT 26	
BCN EP	14 56 07.6
OCT 26	
GUA E(P)	15 04 52.0

Date and Station	Phase (GCT)
	h m s
OCT 26	
COL EP	15 13 43.0
OCT 26	
GUA E(P)	15 58 37.5
COL EP	16 01 47.0
OCT 26	
H-17 00 00.1	
39.2N 118.4W	
h ABOUT 000KM	
EUR IP	17 00 33.0
UKI IP	17 01 00.0
EL	02 01.0
BCN IP	17 01 07.0
I	01 18.2
SLC EP	17 01 21.3
I	01 45.8
IL	02 57.3
GCA EP	17 01 28.9
I	01 45.9
FGU IP	17 01 49.0
BUT EP	17 01 58.9
I	19 17.9
BOZ IP	17 02 01.2
I	02 25.0
IL	04 13.0
TUC EP	17 02 16.0
E	02 53.0
EL	04 57.0
HHM IP	17 02 23.2
EL	05 08.2
ALQ EP	17 02 31.0
I	03 17.0
RCD E(P)	17 03 01.0
COL IP	17 06 20.0
OCT 26	
EUR EP	17 11 39.0
EL	12 18.5
OCT 26	
BCN EP	17 15 57.7
OCT 26	
COL IP	18 00 59.1
OCT 26	
H-18 55 39.1	
07.0S 129.7E	
h ABOUT 125KM	
GUA IP	19 00 57.0
OCT 26	
H-19 05 58.1	
44.1N 148.9E	
h ABOUT 045KM	
COL EP	19 13 30.0

Date and Station	Phase (GCT)
	h m s
BOZ IP	19 16 40.0
I▸P	16 52.5
EUR EP	19 16 48.5
E▸P	17 01.2
ALQ EP	19 17 41.0
OCT 26	
GUA IP	19 59 21.0
KIP IP	20 08 33.3
OCT 26	
H-20 20 14.5	
43.1N 111.2W	
h ABOUT 037KM	
SLC IP	20 20 53.0
IS	21 28.0
BOZ IP	20 20 54.0
IS	21 26.0
FGU EP	20 20 54.9
I	20 58.7
BUT EP	20 21 01.9
	21 42.9
EUR EP	20 21 31.5
HHM EP	20 21 38.2
E	22 03.7
GCA EP	20 21 47.9
RCD E(P)	20 21 58.0
BCN EP	20 22 07.3
ALQ EP	20 22 22.0
IL	24 52.0
OCT 26	
TUC E(P)	20 23 16.0
E	26 00.0
OCT 26	
FGU IP	20 53 13.5
IS	53 46.2
OCT 26	
FGU IP	21 05 51.2
IS	06 10.9
OCT 26	
GUA E(P)	21 17 30.0
OCT 26	
SJP EP	22 03 03.0
EL	03 43.0
OCT 26	
COL IP	22 12 28.0
BOZ EP	22 15 39.0
I▸P	15 48.0
EUR EP	22 15 47.0
I	16 02.5
RCD E(P)	22 16 29.0

Date and Station	Phase	(GCT) h m s
OCT 26		
EUR	IP	22 22 33.8
	IS	22 47.0
OCT 26		
H-22 41 29.8		
5.2S 152.0E		
h ABOUT 073KM		
GUA	IP	22 46 00.0
KIP	IP	22 51 00.5
COL	IP	22 53 45.2
EUR	EP	22 54 44.8
	E▸P	55 04.5
	EPP	58 30.0
	PKKP	23 11 37.0
BOZ	IP	22 55 00.0
	E	55 15.0
FGU	EP	22 55 08.2
ALQ	EP	22 55 21.0
	EPP	59 24.0
OCT 26		
SLC	EP	23 05 24.7
OCT 26		
FGU	EP	23 08 23.7
	IS	08 57.2
OCT 26		
SLC	E(P)	23 12 18.7
OCT 26		
GUA	IP	23 21 59.0
OCT 26		
SLC	IP	23 42 24.2
	IS	42 53.2
OCT 26		
FGU	EP	23 43 55.7
	I	43 57.2
	ES	44 29.7
EUR	EP	23 44 08.3
	IL	44 49.0
GCA	E(P)	23 44 13.7
ALQ	EP	23 45 28.0
	E	47 01.0
OCT 26		
H-23 58 57.8		
43.8N 151.2E		
h ABOUT 033KM		
COL	IP	24 06 25.5
BUT	EP	24 09 28.7
EUR	IP	24 09 42.9
BCN	EP	24 10 01.2
FGU	E(P)	24 10 02.2
GCA	IP	24 10 09.1
RCD	EP	24 10 11.0
TUC	EP	24 10 30.5
OCT 27		
BCN	EP	00 31 30.6
	I	31 36.2
	ES	32 00.1
	IL	32 15.1
OCT 27		
BCN	EP	00 32 56.7
OCT 27		
GUA	EP	01 13 43.8
	ES	14 30.5
OCT 27		
H-01 30 32.1		
29.5S 101.2W		
h ABOUT 033KM		
TUC	E(P)	01 40 57.0
ALQ	E(P)	01 41 11.0
BOZ	EP	01 42 16.5
OCT 27		
SIT	E(P)	02 18 24.0
	ES	18 55.5
COL	EP	02 19 29.0
OCT 27		
BCN	EP	02 53 46.2
	E	53 28.0
OCT 27		
COL	EP	03 06 26.0
OCT 27		
COL	EP	03 46 54.0
OCT 27		
H-04 22 37.9		
44.4N 150.2E		
h ABOUT 060KM		
COL	EP	04 30 02.0
BOZ	EP	04 33 12.1
OCT 27		
BOZ	EP	04 46 23.0
	▸P	46 32.0
OCT 27		
BOZ	EP	05 05 10.8
	ES	05 42.0
FGU	EP	05 05 15.4
	IS	05 49.4
OCT 27		
H-05 20 18.4		
20.6S 178.6W		
h ABOUT 541KM		
COL	IP	05 32 12.7
OCT 27		
H-05 49 09.0		
44.2N 149.3E		
h ABOUT 020KM		
COL	EP	05 56 42.0
BOZ	EP	05 59 51.7
	E	06 00 06.0
EUR	EP	06 00 01.5
	E	00 10.8
OCT 27		
BOZ	EP	06 33 21.3
OCT 27		
COL	EP	07 50 19.0
OCT 27		
H-08 45 43.8		
17.9S 178.5W		
h ABOUT 586KM		
KIP	IP	08 53 02.0
BCN	EP	08 56 57.7
TUC	IP	08 57 04.4
GCA	IP	08 57 11.9
COL	IP	08 57 21.2
	E▸P	59 30.0
ALQ	IP	08 57 25.0
	E▸P	59 34.0
FGU	IP	08 57 27.4
BOZ	IP	08 57 30.0
	E▸P	59 40.0
RCD	E(P)	08 57 53.0
OCT 27		
SJP	IP	10 06 08.2
	IL	07 31.4
OCT 27		
H-10 38 48.5		
22.8S 175.2W		
h ABOUT 035KM		
GUA	EP	10 48 06.0
BCN	EP	10 51 06.5
	E▸P	51 17.5
GCA	E(P)	10 51 21.1
ALQ	IP	10 51 32.0
BOZ	EP	10 51 43.5
	I▸P	51 55.0
COL	EP	10 51 46.0
OCT 27		
BCN	EP	10 54 37.6
	ES	54 40.9
OCT 27		
BUT	EP	11 32 00.9
	E(S)	32 32.9
BOZ	EP	11 32 03.0
	ES	32 35.0
HHM	E(P)	11 32 25.0
	E	33 25.0
OCT 27		
ALQ	IP	11 55 17.0
OCT 27		
H-12 02 57.6		
05.6N 079.4W		
h ABOUT 032KM		
BHP	IP	12 03 48.0
	IS	04 26.0
TUC	EP	12 10 28.0
COL	EP	12 14 42.0
OCT 27		
H-13 02 43.8		
43.5N 089.0E		
h ABOUT 056KM		
COL	EP	13 13 08.0
OCT 27		
COL	EP	13 29 27.0
HHM	EP	13 32 23.3
OCT 27		
BCN	E(P)	14 04 00.8
	EL	04 42.5
OCT 27		
COL	EP	14 12 36.0
OCT 27		
BCN	E(P)	14 13 45.3
	EL	14 26.0
OCT 27		
H-14 14 18.1		
45.4N 150.0E		
h ABOUT 060KM		
COL	EP	14 21 36.0
OCT 27		
BCN	E(P)	14 48 29.8
	EL	49 12.0
TUC	E(P)	14 49 47.0
	E	51 41.0
OCT 27		
H-14 50 20.1		
33.1N 115.7W		
h ABOUT 015KM		
BCN	EP	14 51 08.5
	I	51 14.8
	IS	51 38.8
	IL	51 55.6
TUC	EP	14 51 23.6

Date and Station	Phase (GCT)
	h m s
GCA IP	14 51 38.9
ALQ EP	14 52 17.0
E	52 53.0
OCT 27	
SLC E(P)	14 54 03.4
OCT 27	
BOZ E(P)	14 56 20.0
OCT 27	
H-14 56 55.0	
33.0N 115.7W	
h ABOUT 014KM	
BCN EP	14 57 44.8
I	57 50.4
IS	58 14.4
IL	58 31.0
TUC EP	14 57 59.5
GCA IP	14 58 14.9
I	59 36.9
BUT E(P)	15 01 05.0
OCT 27	
TUC E(P)	14 59 59.0
ALQ IP	15 00 52.0
E(S)	02 30.0
OCT 27	
BCN E(P)	15 13 43.8
ES	14 09.2
EL	14 20.0
TUC E(P)	15 13 58.0
OCT 27	
H-15 24 10.6	
33.0N 115.6W	
h ABOUT 014KM	
BCN EP	15 24 59.8
I	25 06.3
ES	25 32.0
TUC E(P)	15 25 15.0
OCT 27	
H-15 30 43.4	
33.0N 115.7W	
h ABOUT 014KM	
BCN EP	15 31 33.2
I	31 39.2
ES	32 05.2
IL	32 20.0
TUC E(P)	15 31 50.0
OCT 27	
BCN E(P)	15 46 20.4
I	46 26.4
EL	47 06.0
OCT 27	
BCN E(P)	15 49 21.2
E	49 27.0
EL	50 08.0

Date and Station	Phase (GCT)
	h m s
OCT 27	
H-15 58 49.9	
44.2N 114.8W	
h ABOUT 030KM	
BOZ EP	15 59 28.8
IL	16 00 15.0
BUT EP	15 59 30.7
I	59 37.7
E(S)	16 00 00.0
HHM E(P)	15 59 52.3
EL	16 01 03.3
OCT 27	
BCN E(P)	16 43 56.3
E	44 03.0
EL	44 44.0
TUC E(P)	16 44 13.0
OCT 27	
BCN E(P)	16 47 48.3
E	47 54.5
EL	48 33.0
OCT 27	
BCN E(P)	17 08 05.8
E	08 11.3
EL	08 51.0
TUC E(P)	17 08 35.0
OCT 27	
BCN E(P)	17 31 27.0
EL	32 14.0
TUC E(P)	17 31 47.0
OCT 27	
BCN E(P)	17 44 31.8
E	44 37.0
EL	45 17.0
TUC E(P)	17 44 51.5
OCT 27	
COL EP	17 46 38.5
OCT 27	
BCN E(P)	17 50 04.3
I	50 10.0
ES	50 36.8
EL	50 49.8
TUC E(P)	[illegible]
GCA EP	17 50 35.5
I	53 38.8
ALQ E(P)	17 51 49.0
BUT EP	17 53 06.7
ES	56 33.7
BOZ EP	17 53 13.0
HHM E(P)	17 53 37.0

Date and Station	Phase (GCT)
	h m s
OCT 27	
BCN EP	17 53 08.5
I	53 14.5
IS	53 40.5
IL	53 54.0
TUC E(P)	17 53 24.5
OCT 27	
BCN E(P)	18 03 46.1
E	03 52.1
EL	04 32.6
OCT 27	
H-18 07 44.6	
33.1N 115.7W	
h ABOUT 014KM	
BCN EP	18 08 34.3
I	08 39.8
TUC EP	18 08 49.4
GCA EP	18 09 03.7
I	09 05.3
ALQ EP	18 09 43.0
OCT 27	
H-18 12 49.7	
33.1N 115.7W	
h ABOUT 014KM	
BCN EP	18 13 38.1
I	13 44.2
IL	14 23.0
TUC IP	18 13 54.2
GCA IP	18 14 09.0
OCT 27	
ALQ E(P)	18 16 58.0
OCT 27	
H-18 22 05.1	
33.0N 115.6W	
h ABOUT 014KM	
BCN EP	18 22 55.8
I	23 00.3
[illegible]	23 42.0
[illegible]	18 23 10.4
GCA EP	18 23 23.0
I	23 27.0
ALQ E(P)	18 24 20.0
OCT 27	
H-18 24 42.9	
24.3S 176.1W	
h ABOUT 033KM	
KIP EP	18 33 25.0
E	33 38.0
GUA IP	18 34 02.4
BCN EP	18 37 09.0
E	37 21.0
GCA IP	18 37 22.7

Date and Station	Phase (GCT)
	h m s
ALQ IP	18 37 34.0
I	38 06.0
BOZ IP	18 37 44.0
I	37 56.0
HHM EP	18 37 45.0
COL IP	18 37 47.2
BUT EP	18 37 52.8
RCD E(P)	18 38 05.0
OCT 27	
H-18 49 36.5	
33.0N 115.7W	
h ABOUT 014KM	
BCN EP	18 50 25.3
I	50 31.8
IS	50 54.7
IL	85 11 08.
TUC EP	18 50 40.2
GCA IP	18 50 54.9
OCT 27	
BOZ EP	18 52 19.0
E	52 30.3
OCT 27	
SLC EP	18 54 15.4
OCT 27	
H-19 36 26.6	
16.8S 173.5W	
h ABOUT 033KM	
BOZ E(P)	19 47 53.8
TUC E(P)	19 48 20.0
ALQ E(P)	19 48 4[illegible]
COL EP	19 48 [illegible]4.0
OCT 27	
H-19 38 15.2	
33.0N 115.7W	
h ABOUT 014KM	
BCN EP	19 39 04.3
I	39 10.3
IS	39 34.9
IL	39 44.0
TUC EP	19 39 19.2
GCA EP	19 39 35.2
OCT 27	
H-19 53 49.6	
44.5N 149.4E	
h ABOUT 065KM	
COL EP	20 01 15.0
BOZ E(P)	20 04 26.0

Date and Station	Phase	(GCT) h m s
OCT 27		
H-20 05 38.1		
44.5N . 150.1E		
h ABOUT 050KM		
COL	IP	20 13 03.6
KIP	EP	20 14 17.0
HHM	EP	20 15 54.3
	I▸P	16 08.3
BUT	EP	20 16 09.4
	▸P	16 23.6
EUR	IP	20 16 23.2
	I▸P	16 39.0
BCN	EP	20 16 41.0
	E▸P	16 55.0
RCD	EP	20 16 49.0
	E▸P	17 05.0
TUC	EP	20 17 10.5
	E▸P	17 27.0
ALQ	IP	20 17 15.5
	I▸P	17 32.0
OCT 27		
BCN	EP	20 28 02.2
	EL	28 31.0
OCT 27		
GUA	IP	20 36 23.6
	E	36 39.4
OCT 27		
HHM	EP	20 36 12.3
OCT 27		
BCN	EP	20 37 05.3
	E	37 15.8
	ES	37 46.0
	EL	38 02.0
OCT 27		
BOZ	IP	21 16 14.1
	I▸P	16 29.0
OCT 27		
ALQ	E(P)	21 47 17.0
OCT 27		
BCN	E(P)	21 55 08.0
	E	55 14.0
	EL	55 53.0
OCT 27		
BCN	E(P)	22 06 39.9
	E	06 46.4
	EL	07 25.0
OCT 27		
SLC	E(P)	22 40 34.5
OCT 27		
HHM	IP	22 54 52.2
OCT 27		
COL	EP	23 11 34.0
OCT 28		
H-00 30 39.3		
33.0N 115.6W		
h ABOUT 014KM		
BCN	EP	00 31 30.6
	I	31 36.2
	ES	32 00.1
TUC	EP	00 31 44.0
GCA	E(P)	00 32 01.3
OCT 28		
BCN	E(P)	02 16 52.4
	E	32 29.4
OCT 28		
H-02 25 07.9		
14.8N 090.8W		
h ABOUT 033KM		
ALQ	E(P)	02 30 28.0
TUC	E(P)	02 30 33.0
BCN	EP	02 31 17.1
	E	31 48.0
OCT 28		
H-02 50 30.1		
13.6S 076.9W		
h ABOUT 038KM		
ALQ	E(P)	03 00 05.0
OCT 28		
TUC	E(P)	02 58 40.0
OCT 28		
GUA	EP	04 09 34.5
	E	09 53.8
OCT 28		
H-04 58 42.9		
45.4N 151.3E		
h ABOUT 045KM		
COL	IP	05 05 58.0
BOZ	EP	05 09 10.0
	E▸P	09 22.0
EUR	EP	05 09 20.3
	E▸P	09 33.0
OCT 28		
BCN	E(P)	05 35 58.3
	E	36 01.5
	E	36 33.0
OCT 28		
BUT	EP	05 40 28.2
	E	40 58.2
OCT 28		
H-06 15 33.7		
46.5N 154.2E		
h ABOUT 033KM		
COL	EP	06 22 32.0
OCT 28		
GUA	EP	06 44 05.0
COL	IP	06 49 11.2
OCT 28		
H-07 55 12.3		
24.3S 176.0W		
h ABOUT 033KM		
KIP	IP	08 03 55.8
	E	14 03.0
	EL	14 58.0
GUA	EP	08 04 32.3
	E	04 50.2
UKI	EP	08 07 22.0
BCN	IP	08 07 38.5
TUC	IP D	08 07 42.0
GCA	IP	08 07 52.6
SLC	IP	08 08 01.4
ALQ	IP	08 08 04.0
	I	08 25.0
COL	I(P)	08 08 06.3
BUT	EP	08 08 12.6
BOZ	IP	08 08 14.1
HHM	IP	08 08 15.3
RCD	E(P)	08 08 35.0
OCT 28		
HON	ES	08 11 08.0
	E	14 06.0
	EL	14 54.0
SLC	E(P)	08 18 49.6
OCT 28		
H-08 14 15.5		
33.0N 115.6W		
h ABOUT 014KM		
BCN	EP	08 15 04.8
	I	15 11.0
	IS	15 33.3
	IL	15 52.0
TUC	IP	08 15 20.0
GCA	IP	08 15 34.6
	I	15 37.6
ALQ	EP	08 16 12.0
	E	16 43.0
OCT 28		
COL	EP	08 58 46.0
OCT 28		
H-10 03 48.2		
45.4N 150.0E		
h ABOUT 045KM		
COL	EP	10 11 08.0
BOZ	IP	10 14 20.2
	E▸P	14 31.5
EUR	E(P)	10 14 30.5
	E▸P	14 42.0
BCN	E(P)	10 15 01.0
ALQ	E(P)	10 15 23.0
OCT 28		
H-10 18 10.3		
44.6N 149.6E		
h ABOUT 050KM		
COL	IP	10 25 37.3
HHM	E(P)	10 28 27.0
	E▸P	28 40.5
BOZ	EP	10 28 47.0
	I▸P	29 02.0
BCN	EP	10 29 14.6
	E	29 20.1
RCD	E(P)	10 29 23.0
TUC	E(P)	10 29 43.0
ALQ	E(P)	10 29 49.0
OCT 28		
BOZ	EP	11 53 30.0
OCT 28		
COL	EP	12 04 29.0
OCT 28		
H-12 03 19.8		
52.8N 159.8E		
h ABOUT 033KM		
COL	IP	12 09 14.9
KIP	IP	12 11 32.4
	EL	21 46.0
	ET	59 12.0
HON	E(P)	12 11 46.0
	E	11 18 25.0
	EL	21 36.0
HHM	IP	12 12 24.7
	PCP	13 38.3
	EPP	14 27.3
UKI	EP	12 12 34.0
BUT	EP	12 12 41.5
	I	12 57.5
	IPCP	13 46.5
BOZ	EP	12 12 47.0
	IPCP	13 49.0
EUR	I(P)	12 13 01.0
	IPCP	13 54.0
	E	18 08.0
	ES	20 52.5
	E	21 17.0
	EP'P	42 30.0
	E	43 33.5
SLC	IP	12 13 10.7

Date and Station	Phase (GCT) h m s
BCN IP	12 13 22.9
I	13 32.9
IPCP	14 09.7
EP'P'	42 56.9
E	43 10.1
RCD IP C	12 13 27.2
E(P'P')	42 54.0
GCA IP	12 13 20.3
E(P'P')	42 43.8
TUC IP	12 13 55.8
EPCP	14 30.0
E(P'P')	42 31.0
ALQ IP	12 14 03.0
E(P'P')	42 40.0
CSC EP	12 15 20.0
OCT 28	
COL EP	12 19 09.0
OCT 28	
COL EP	13 27 34.0
OCT 28	
BOZ IP	13 37 49.0
IS	38 21.0
OCT 28	
GUA IP	14 07 18.9
E(S)	07 32.0
OCT 28	
H-14 13 31.6	
45.3N 151.3E	
h ABOUT 045KM	
COL IP	14 20 47.0
BOZ EP	14 24 04.0
E	24 14.0
EUR EP	14 24 10.7
I▸P	24 23.3
OCT 28	
H-14 36 20.0	
45.7N 150.3E	
h ABOUT 055KM	
COL IP	14 43 36.8
BOZ IP	14 46 49.0
E▸P	47 02.0
EUR E(P)	14 47 59.0
OCT 28	
EUR EP	15 30 44.5
EL	31 28.0
OCT 28	
H-15 55 36.0	
33.1N 115.7W	
h ABOUT 014KM	
BCN EP	15 56 25.3
I	56 31.7
IS	56 56.2
EL	57 12.0
TUC EP	15 56 40.5
OCT 28	
GCA EP	15 57 21.0
OCT 28	
BUT EP	16 33 54.3
E(S)	34 20.3
BOZ EP	16 33 56.9
ES	34 30.0
HHM E(P)	16 34 23.0
ES	35 20.3
OCT 28	
BOZ EP	17 14 21.0
ES	14 56.0
OCT 28	
H-18 05 09.7	
45.0N 151.7E	
h ABOUT 060KM	
COL IP	18 12 25.5
OCT 28	
H-18 09 38.2	
43.9N 150.9E	
h ABOUT 033KM	
COL IP	18 17 05.7
BOZ IP	18 20 15.5
OCT 28	
BOZ IP	18 17 37.0
E	17 55.0
OCT 28	
COL EP	18 30 46.0
OCT 28	
COL EP	18 34 01.0
OCT 28	
ALQ E(P)	19 11 03.0
E	11 34.0
GCA E(P)	19 11 14.4
OCT 28	
H-19 15 12.5	
42.8S 073.7W	
h ABOUT 030KM	
TUC E(P)	19 27 31.0
ALQ IP	19 27 35.5
GCA EP	19 27 54.9
BCN EP	19 27 55.3
E	28 03.8
FGU I(P)	19 28 06.1
EUR EP	19 28 12.2
E	28 20.3
OCT 28	
SJP EP	19 23 06.5
OCT 28	
H-19 59 15.0	
24.5S 179.9E	
h ABOUT 532KM	
GUA IP	20 07 28.0
BCN EP	20 11 01.7
TUC IP	20 11 06.0
EUR EP	20 11 06.5
E	11 18.0
GCA IP	20 11 15.5
ALQ IP	20 11 26.0
E▸P	13 20.0
FGU EP	20 11 29.4
OCT 28	
BCN E(P)	20 04 33.3
I	04 38.8
EL	05 18.8
TUC E(P)	20 04 52.0
OCT 28	
COL EP	20 13 22.0
OCT 28	
BCN EP	20 14 37.3
I	14 43.3
IS	15 07.3
EL	15 22.8
TUC EP	20 14 50.6
ALQ E(P)	20 16 04.0
E	16 19.0
OCT 28	
GCA EP	20 15 06.0
OCT 28	
BCN E(P)	20 29 29.5
EL	30 16.0
TUC E(P)	20 29 45.0
OCT 28	
GCA E(P)	20 30 05.0
E	31 26.0
OCT 28	
H-20 36 56.0	
44.8N 149.6E	
h ABOUT 045KM	
COL IP	20 44 20.0
BUT E(P)	20 47 27.2
E	47 44.3
BOZ IP	20 47 33.0
I(▸P)	47 48.0
FGU E(P)	20 48 00.2
BCN EP	20 48 01.2
E▸P	48 14.7
GCA E(P)	20 48 09.0
RCD E(P)	20 48 09.0
TUC E(P)	20 48 30.0
ALQ IP	20 48 35.7
OCT 28	
COL IP	20 49 49.2
OCT 28	
BCN E(P)	21 03 01.2
E	03 06.2
EL	03 49.2
OCT 28	
COL EP	21 13 57.0
OCT 28	
BCN E(P)	21 21 45.7
E	21 52.2
EL	21 33.0
OCT 28	
EUR E(P)	21 22 57.1
EL	24 23.0
OCT 28	
H-21 48 24.1	
49.9N 154.7E	
h ABOUT 105KM	
BOZ IP	21 58 14.0
EUR IP	21 58 27.0
E▸P	58 53.0
FGU EP	21 58 44.7
BCN EP	21 58 46.9
E▸P	59 14.0
RCD EP	21 58 52.4
GCA EP	21 58 54.6
OCT 28	
ALQ IP	21 49 22.0
E	49 43.0
OCT 28	
FGU EP	22 12 31.0
E(S)	12 50.7
OCT 28	
BCN IP	23 04 53.6
IL	05 05.6
OCT 28	
FGU IP	23 47 46.2
OCT 29	
GUA IP	00 09 41.6
IS	09 54.5
OCT 29	
BCN E(P)	00 32 19.1
E	32 24.1
EL	33 04.6
TUC E(P)	00 32 47.0
OCT 29	
BOZ EP	00 46 25.0

Date and Station	Phase	(GCT) h m s
OCT 29		
BUT	EP	01 24 39.1
	E	25 28.1
OCT 29		
BUT	EP	01 27 32.1
OCT 29		
FGU	EP	01 44 21.8
	ES	44 54.8
OCT 29		
FGU	EP	02 10 17.8
	ES	10 51.3
OCT 29		
H-02 23 53.6		
44.6N 151.2E		
h ABOUT 045KM		
COL	IP	02 31 12.5
HHM	E(P)	02 34 15.4
BOZ	EP	02 34 25.0
	I▸P	34 38.0
EUR	EP	02 34 34.5
	E▸P	34 47.5
ALQ	EP	02 35 27.0
OCT 29		
FGU	E(P)	02 34 33.0
	E(S)	35 06.3
OCT 29		
FGU	EP	02 37 55.8
	ES	38 30.8
OCT 29		
COL	EP	02 54 56.0
OCT 29		
H-02 57 32.7		
45.6N 151.2E		
h ABOUT 025KM		
COL	IP	03 04 49.0
OCT 29		
EUR	EP	03 23 12.8
	E	23 23.0
OCT 29		
COL	EP	03 54 27.0
OCT 29		
COL	EP	03 56 55.0
EUR	EP	04 00 24.6
TUC	E(P)	04 01 22.0
OCT 29		
BCN	E(P)	04 04 02.1
	I	04 06.5
	ES	04 18.9
	EL	04 47.0
OCT 29		
EUR	EP	04 05 05.4
	EL	06 38.0
OCT 29		
COL	EP	04 05 43.0
OCT 29		
EUR	EP	04 09 09.0
OCT 29		
EUR	EP	04 10 42.7
OCT 29		
FGU	IP	04 54 59.9
	IS	55 31.4
OCT 29		
BOZ	EP	05 09 53.5
	IS	10 24.0
OCT 29		
BOZ	EP	05 27 39.1
	ES	28 10.0
FGU	EP	05 27 45.4
	IS	28 18.9
OCT 29		
BOZ	EP	05 33 48.1
	ES	34 22.0
FGU	E(P)	05 33 57.7
	E(S)	34 29.9
OCT 29		
BOZ	IP	05 39 11.0
	IS	39 42.0
OCT 29		
	P	05 49 59.2
	ES	50 33.1
OCT 29		
BOZ	EP	06 08 00.0
	ES	08 31.0
FGU	IP	06 08 06.5
	IS	08 40.5
OCT 29		
H-07 01 41.4		
40.4N 124.9W		
h ABOUT 033KM		
UKI	IP	07 02 09.8
	I	02 20.3
	IS	02 31.0
BCN	E(P)	07 04 01.0
	E	04 16.0
	ES	06 40.0
BUT	EP	07 04 13.2
BOZ	IP	07 04 18.7
GCA	E(P)	07 04 20.7
HHM	IP	07 04 21.4
FGU	EP	07 04 29.5
TUC	E(P)	07 05 01.0
ALQ	IP	07 05 21.0
RCD	EP	07 05 30.0
OCT 29		
H-07 09 00.4		
45.3N 150.7E		
h ABOUT 055KM		
COL	IP	07 16 17.5
HHM	EP	07 19 10.4
OCT 29		
BCN	E(P)	07 12 26.0
	EL	13 06.0
OCT 29		
H-07 42 11.8		
43.2N 111.3W		
h ABOUT 030KM		
BOZ	IP	07 42 50.0
	IS	43 21.0
FGU	IP	07 42 57.1
	IS	43 28.5
HHM	E(P)	07 43 46.4
OCT 29		
BOZ	EP	07 53 41.0
	ES	54 11.0
FGU	IP	07 53 47.0
	IS	54 19.5
OCT 29		
COL	IP	07 56 00.8
OCT 29		
GUA	IP	08 00 01.0
	E	00 11.0
OCT 29		
FGU	E(P)	08 20 31.8
	E(S)	21 02.1
OCT 29		
H-10 56 10.1		
18.0S 178.3W		
h ABOUT 494KM		
TUC	E(P)	11 07 38.0
OCT 29		
COL	EP	11 28 15.0
OCT 29		
BOZ	EP	11 46 44.5
	ES	47 16.0
FGU	EP	11 46 49.1
	IS	47 23.1
OCT 29		
BCN	E(P)	12 29 39.7
	EL	30 18.0
TUC	E(P)	12 30 02.0
OCT 29		
COL	EP	15 24 37.0
OCT 29		
ALQ	EP	15 48 38.0
OCT 29		
H-15 49 10.3		
24.8S 068.6W		
h ABOUT 067KM		
SJP	E(P)	15 57 03.0
	EPCP	58 49.5
	I	59 10.0
ALQ	IP	16 00 13.5
	I	00 42.0
	I	00 54.0
TUC	EP	16 00 14.0
	E	00 42.0
BCN	EP	16 00 44.3
	E	01 14.0
	E	01 25.0
FGU	IP	16 00 50.7
EUR	EP	16 01 02.5
	E	01 12.0
	I	01 28.5
BUT	IP	16 01 20.1
	I	01 48.1
BOZ	IP	16 01 15.0
	I	01 19.0
HHM	EP	16 01 31.4
	I	06 02 01.4
GUA	IP'	16 08 45.0
	I	09 15.5
	I	09 28.6
OCT 29		
SJP	I(P)	15 57 40.2
OCT 29		
H-16 55 49.4		
26.5S 177.5W		
h ABOUT 065KM		
TUC	E(P)	17 08 24.0
OCT 29		
GUA	E(P)	16 56 29.0
COL	EP	16 58 51.0
OCT 29		
BOZ	EP	17 55 14.0
	IL	55 28.0
OCT 29		
HHM	EP	17 56 11.4
OCT 29		
COL	EP	18 30 25.0
OCT 29		
GUA	E(P)	19 12 11.1
OCT 29		
COL	EP	20 04 11.0
OCT 29		
H-20 22 15.7		
26.2S 177.8W		
h ABOUT 049KM		

Date and Station	Phase (GCT)
	h m s
BCN E(P)	20 34 51.8
E	35 14.2
TUC EP	20 34 54.0
EUR EP	20 34 57.0
GCA E(P)	20 35 03.1
ALQ EP	20 35 10.0
COL EP	20 35 27.0
BOZ EP	20 35 27.5
HON E	20 38 38.0
EL	45 47.0
OCT 29	
FGU EP	20 29 37.3
OCT 29	
HHM EP	20 47 12.6
OCT 29	
GCA EP	21 56 13.2
ES	56 22.7
OCT 29	
FGU IP	22 14 51.4
IS	15 10.6
OCT 29	
H-22 22 37.7	
24.4S 176.1W	
h ABOUT 033KM	
BCN EP	22 35 03.7
E	37 12.2
GCA EP	22 35 17.3
ALQ EP	22 35 26.0
OCT 29	
H-22 24 02.6	
47.0N 092.8E	
h ABOUT 118KM	
BCN E(P)	22 37 12.2
OCT 29	
FGU E(P)	22 30 33.9
I	31 56.4
OCT 29	
TUC E(P)	22 53 37.0
OCT 29	
TUC E(P)	22 54 41.0
OCT 29	
SLC IP	22 58 07.3
FGU IP	22 58 21.4
OCT 29	
FGU IP	22 58 49.4
ES	59 11.4
OCT 29	
ALQ E(P)	23 00 51.0

Date and Station	Phase (GCT)
	h m s
OCT 29	
BCN IP	23 10 32.2
EL	10 44.2
OCT 29	
TUC EP	23 35 06.3
OCT 29	
GUA EP	23 59 39.0
OCT 30	
H-00 00 58.4	
44.2N 150.6E	
h ABOUT 050KM	
COL IP	00 08 23.3
EUR EP	00 11 42.0
OCT 30	
ALQ EP	00 02 17.0
OCT 30	
BCN I(P)	00 11 27.7
OCT 30	
BCN EP	00 25 07.7
EL	25 21.0
OCT 30	
H-00 35 40.4	
44.7N 150.0E	
h ABOUT 055KM	
COL IP	00 43 03.8
BOZ EP	00 46 15.0
E▸P	46 30.0
EUR EP	00 46 24.6
E▸P	46 39.5
OCT 30	
GUA E(P)	00 45 51.2
OCT 30	
H-01 17 31.1	
04.8S 077.9W	
h ABOUT 020KM	
SJP EP	01 23 03.7
ALQ IP	01 26 10.5
I	26 24.0
TUC IP	01 26 14.5
GCA EP	01 26 42.7
BCN EP	01 26 51.2
EPCP	28 04.6
FGU IP	01 26 56.2
EUR IP	01 27 14.0
BOZ IP	01 27 28.1
HHM IP	01 27 49.6
COL IP	01 30 10.4
OCT 30	
GUA E(P)	01 19 18.7

Date and Station	Phase (GCT)
	h m s
OCT 30	
BOZ EP	01 24 14.0
E	24 45.0
HHM EP	01 24 37.4
ES	25 35.4
EUR EP	01 24 45.0
EL	25 41.5
OCT 30	
BCN EP	02 02 14.3
OCT 30	
SJP EP	02 31 12.8
EL	31 32.3
OCT 30	
GCA E(P)	02 39 17.6
OCT 30	
BOZ EP	02 52 18.0
OCT 30	
H-02 59 24.1	
43.6N 151.4E	
h ABOUT 033KM	
COL EP	03 06 52.0
OCT 30	
GUA EP	03 26 56.8
E	27 12.0
OCT 30	
HHM EP	03 30 31.4
OCT 30	
GUA IP	04 06 50.8
I	07 07.0
OCT 30	
H-05 31 48.5	
26.6S 178.0W	
h ABOUT 240KM	
TUC E(P)	05 44 04.0
EUR E(P)	05 44 10.0
OCT 30	
H-05 36 53.4	
10.4S 166.2E	
h ABOUT 033KM	
COL EP	05 49 14.0
TUC E(P)	05 49 50.0
OCT 30	
BOZ EP	06 02 58.0
OCT 30	
COL EP	07 04 15.0
OCT 30	
COL EP	07 07 41.0
OCT 30	
TUC E(P)	07 58 28.0
OCT 30	
GUA EP	09 22 25.9

Date and Station	Phase (GCT)
	h m s
OCT 30	
H-09 28 29.9	
44.9N 149.1E	
h ABOUT 045KM	
COL IP	09 35 56.9
EUR EP	09 39 16.4
OCT 30	
H-10 51 45.9	
44.6N 150.2E	
h ABOUT 055KM	
COL EP	10 59 09.0
BOZ EP	11 02 20.0
E▸P	02 33.5
EUR EP	11 02 29.3
I▸P	02 43.7
E	03 00.5
BCN E(P)	11 03 02.0
E	03 19.5
OCT 30	
COL EP	11 34 15.0
OCT 30	
COL EP	13 14 17.0
OCT 30	
COL IP	14 13 53.9
OCT 30	
COL IP	14 24 11.5
OCT 30	
COL EP	14 48 30.0
OCT 30	
H-15 21 07.2	
44.8N 150.2E	
h ABOUT 045KM	
COL IP	15 28 30.5
BOZ EP	15 31 42.0
I▸P	31 55.5
EUR EP	15 31 51.0
E▸P	32 03.0
OCT 30	
TUC E(P)	15 38 20.0
OCT 30	
BOZ E(P)	17 48 06.0
OCT 30	
HHM EP	17 49 48.3
OCT 30	
GCA EP	19 25 37.8
IS	25 45.3
OCT 30	
COL EP	20 04 14.0
OCT 30	
ALQ E(P)	21 35 43.0

Date and Station	Phase	(GCT) h m s
OCT 30		
GUA	EP	21 44 55.5
	E	45 07.0
OCT 30		
COL	IP	21 47 18.7
OCT 30		
COL	EP	22 14 47.0
OCT 30		
GCA	E(P)	22 22 34.0
	IS	22 43.2
OCT 30		
BOZ	IP	22 35 39.0
	I	36 31.0
OCT 30		
H-22 42 27.2		
43.5N 150.5E		
h ABOUT 033KM		
COL	E(P)	22 50 06.0
OCT 30		
TUC	EP	22 50 17.0
OCT 30		
SLC	E(P)	23 05 11.3
OCT 30		
FGU	IP	23 38 56.4
OCT 30		
COL	IP	23 44 15.6
OCT 30		
SLC	IP	23 45 34.8
	IS	46 00.8
FGU	EP	23 46 07.9
EUR	EP	23 46 19.5
OCT 30		
SJP	IP	23 54 44.9
	I	54 54.9
	I	55 01.4
OCT 31		
FGU	IP	01 35 30.4
OCT 31		
COL	IP	02 46 12.1
OCT 31		
H-03 17 42.0		
21.8S 175.0W		
h ABOUT 033KM		
HON	EP	03 26 03.0
	IS	32 52.0
KIP	IP	03 26 03.8
GUA	EP	03 26 59.0
UKI	EP	03 29 37.4
BCN	EP	03 29 54.6
TUC	EP	03 29 58.0
	E(S)	40 12.0
	EP'P'	56 45.0
EUR	IP	03 30 00.9
	EPP	33 04.0
	ES	40 03.0
GCA	EP	03 30 09.0
SLC	EP	03 30 17.3
ALQ	IP	03 30 20.5
	E	30 38.0
	E	30 48.0
FGU	EP	03 30 25.3
BOZ	EP	03 30 30.2
	ES	41 12.0
BUT	E(P)	03 30 31.1
COL	IP	03 30 33.8
OCT 31		
BHP	IP	03 34 27.0
	IS	35 12.0
OCT 31		
H-04 25 38.0		
23.9S 179.8W		
h ABOUT 464KM		
TUC	EP	04 37 32.0
OCT 31		
COL	EP	06 20 14.0
OCT 31		
SLC	E(P)	08 08 36.2
	E	09 30.7
	E	09 59.7
OCT 31		
H-08 08 52.0		
43.0N 111.3W		
h ABOUT 033KM		
BOZ	EP	08 09 28.1
	ES	09 58.0
FGU	IP	08 09 32.1
	IS	10 07.4
OCT 31		
BUT	E(P)	08 10 17.0
OCT 31		
FGU	IP	08 29 59.6
OCT 31		
H-08 51 42.2		
17.9S 178.8W		
h ABOUT 637KM		
BCN	EP	09 02 53.0
EUR	EP	09 02 57.5
TUC	EP	09 03 00.0
ALQ	IP	09 03 20.0
BOZ	EP	09 03 25.0
OCT 31		
COL	IP	09 30 16.3
OCT 31		
H-09 39 47.3		
51.8N 173.8W		
h ABOUT 070KM		
COL	EP	09 44 03.0
	IPCP	48 58.7
BOZ	EP	09 47 24.2
EUR	EP	09 47 27.9
	EPP	47 42.0
OCT 31		
ALQ	EP	09 55 40.0
OCT 31		
H-09 54 25.3		
19.3S 177.4W		
h ABOUT 555KM		
TUC	E(P)	10 05 48.0
OCT 31		
H-09 57 01.0		
27.4N 055.6E		
h ABOUT 035KM		
COL	IP	10 09 40.4
OCT 31		
ALQ	EP	10 27 57.0
OCT 31		
H-10 47 25.3		
10.5S 162.0E		
h ABOUT 038KM		
COL	IP	10 59 51.2
EUR	EP	11 00 26.0
TUC	E(P)	11 00 38.0
OCT 31		
BOZ	EP	11 51 29.0
	ES	51 41.0
OCT 31		
TUC	E(P)	12 10 10.0
OCT 31		
COL	IP	12 42 27.4
OCT 31		
COL	EP	13 19 07.0
OCT 31		
COL	EP	14 18 01.0
OCT 31		
BCN	E(P)	15 37 51.0
	E	37 57.0
	EL	38 37.0
OCT 31		
COL	EP	16 42 42.0
OCT 31		
COL	EP	17 24 18.0
EUR	EP	17 27 46.5
OCT 31		
COL	EP	18 06 11.0
OCT 31		
BCN	EP	19 21 15.8
	ES	21 31.3
EUR	IP	19 21 38.5
	EL	22 17.5
OCT 31		
H-19 28 46.9		
18.2N 103.0W		
h ABOUT 033KM		
ALQ	EP	19 32 46.0
EUR	EP	19 34 01.0
OCT 31		
BCN	EP	19 36 12.8
OCT 31		
H-20 10 54.2		
37.2N 070.0E		
h ABOUT 105KM		
COL	IP	20 22 19.3
OCT 31		
ALQ	EP	20 38 37.0
OCT 31		
FGU	EP	20 58 17.9
OCT 31		
FGU	EP	21 15 00.1
	ES	15 28.8
OCT 31		
FGU	IP	22 37 30.3
	IS	37 41.2
OCT 31		
H-23 19 15.3		
04.9S 077.7W		
h ABOUT 060KM		
ALQ	IP	23 27 50.0
FGU	IP	23 28 36.3
EUR	EP	23 28 53.6
OCT 31		
COL	EP	23 32 24.0
TUC	EP	23 37 54.0