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SEISMOLOGICAL BULLETIN

May, 1964

COAST & GEODETIC SURVEY
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U. S. DEPARTMENT OF COMMERCE

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COAST AND GEODETIC SURVEY—WASHINGTON

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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
*Bozeman, Mont. (BZM)
Montana State College
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHK)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL) WWNSS
*Columbia, S. C. (CSC)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
*Flaming Gorge, Utah (FGU)
Bureau of Reclamation
*Glen Canyon, Ariz. (GCA)
Bureau of Reclamation
Guam, M. I. (GUA) WWNSS
Honolulu, Hawaii (HON)
*Hungry Horse, Mont. (HHM)
Bureau of Reclamation
Kipapa, Hawaii (KIP) WWNSS
**Philadelphia, Pa. (PHI)
The Franklin Institute
**Rapid City, S. D. (RCD) WWNSS
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJP)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC) WWNSS
Ukiah, Calif. (UKI)
International Latitude Observatory
Washington, D. C. (WAS)

*Indicates a station maintained by a local institution in cooperation with the Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
Other stations are observatories of the Coast and Geodetic Survey.
WWNSS indicates the observatories are part of the World-Wide Network of Standard Seismographs.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights. Beginning January 1, 1959, the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States. The horizontal instruments will continue in operation and the seismograms for the local and regional earthquakes will be scaled and the data published.

All magnitudes are m_b values of Gutenberg and Richter determined by the C&GS from the P phase only unless otherwise noted. 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 Pasadena, Palisades and Berkeley respectively.

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
Rockville, Maryland 20852

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
1	00 17 22.0	56.6 N	151.5 W	30	4.5	KODIAK ISLAND REGION.
1	01 10 54*	14.1 N	93.9 E	33		ANDAMAN ISLANDS REGION.
1	03 13 03.5	57.4 N	150.0 W	30	5.3	GULF OF ALASKA.
1	03 40 36.2	59.7 N	144.1 W	20	4.4	GULF OF ALASKA.
1	04 19 57*	21.1 S	69.0 W	119	4.2	NORTHERN CHILE.
1	06 01 55.4	60.5 N	145.6 W	20	5.4	SOUTHERN ALASKA. MAG. 4 3/4-5 (BRK).
1	07 08 12*	57.5 N	150.6 W	20	4.5	GULF OF ALASKA.
1	07 44 44.9	59.7 N	147.1 W	35	4.8	GULF OF ALASKA.
1	09 51 32*	18.6 S	69.5 W	136	4.2	NORTHERN CHILE.
1	11 23 09.1	44.1 N	148.6 E	35	4.1	KURILE ISLANDS.
1	14 04 45.1	1.2 N	85.2 W	33	4.4	OFF COAST OF ECUADOR.
1	14 39 58*	60.4 N	145.1 W	33	4.3	SOUTHERN ALASKA.
1	15 57 29*	56.0 N	167.6 W	33	4.3	PRIBILOF ISLANDS.
1	16 06 12*	14.3 S	167.1 E	95		NEW HEBRIDES ISLANDS.
1	21 24 23*	6.4 S	127.3 E	472		BANDA SEA.
1	23 47 35.3	32.3 S	179.5 W	33	4.8	SOUTH OF KERMADEC ISLANDS.
2	01 32 12*	17.1 N	96.0 W	33	3.7	OAXACA, MEXICO.
2	03 24 24.1	43.6 N	110.4 W	33	4.0	WYOMING.
2	04 43 50*	58.6 N	151.1 W	33	4.0	KODIAK ISLAND REGION.
2	05 15 51.1	4.0 S	102.8 E	106	5.4	SOUTHERN SUMATRA.
2	08 28 47*	45.6 N	149.8 E	80	4.4	KURILE ISLANDS.
2	10 02 42*	59.4 N	146.5 W	33	4.3	GULF OF ALASKA.
2	10 56 00.2	14.9 S	167.3 E	108	4.0	NEW HEBRIDES ISLANDS.
2	11 21 30.2	29.7 S	061.4 E	033		ATLANTIC-INDIAN RISE.
2	16 11 00.2	45.5 N	150.3 E	35	5.7	KURILE ISLANDS. MAG. 6 1/2 (PAS), 6 1/2 (BRK), 6-6 1/4 (PAL).
2	16 33 47.9	27.3 S	178.9 W	369	4.5	KERMADEC ISLANDS.
2	17 08 57.6	59.7 N	147.0 W	30	4.8	GULF OF ALASKA.
2	19 53 11*	9.5 N	84.5 W	44	4.3	COSTA RICA.
2	21 01 44.8	8.6 S	110.4 E	102		JAVA.
2	22 46 24*	1.9 N	123.0 E	487	5.2	NORTHERN CELEBES.
2	23 34 28*	26.3 N	100.7 E	33	5.0	YUNNAN PROVINCE, CHINA.
3	01 54 33.5	40.3 N	141.9 E	59	4.8	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
3	04 43 12.4	17.9 S	178.3 W	569	3.9	FIJI ISLANDS REGION.
3	04 49 36*	13.7 N	145.6 E	209	4.6	MARIANA ISLANDS.
3	07 32 56.3	56.5 N	154.8 W	30	4.4	KODIAK ISLAND REGION.
3	07 58 45*	58.1 N	151.6 W	33	4.2	KODIAK ISLAND REGION.
3	13 31 14.1	23.9 S	66.6 W	210	4.4	JUJUY PROVINCE, ARGENTINA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
3	15 28 30*	17.0 N	96.0 W	33	3.7	OAXACA, MEXICO.
3	15 28 50.0	52.2 N	172.1 W	30	4.4	ANDREANOF ISLANDS, ALEUTIAN IS.
3	21 31 53*	59.0 N	148.5 W	25	4.4	KENAI PENINSULA, ALASKA.
3	21 39 30*	61.0 N	145.8 W	33	3.9	SOUTHERN ALASKA.
3	22 31 45.2	44.9 N	111.9 W	33	4.1	HEBGEN LAKE REGION.
3	23 03 24*	0.1 N	123.4 E	160		NORTHERN CELEBES.
4	02 26 35*	56.0 N	162.4 W	199	4.5	BRISTOL BAY.
4	05 40 35.2	39.4 N	110.8 W	33		UTAH.
4	09 00 10*	61.3 N	141.8 W	33	3.9	SOUTHERN ALASKA.
4	12 04 46.1	58.2 N	152.3 W	30	5.3	KODIAK ISLAND REGION. MAG. 4 (BRK), 4 1/2-4 3/4 (PAL).
4	17 05 20*	55.8 S	4.4 W	33	5.4	SOUTH ATLANTIC RIDGE. MAG. 5-5 1/4 (PAL).
4	19 25 41*	14.7 S	76.0 W	33	4.5	NEAR COAST OF PERU.
5	00 21 57*	60.7 N	147.6 W	33	4.0	SOUTHERN ALASKA.
5	02 04 18*	57.4 N	149.5 W	33	4.4	GULF OF ALASKA.
5	02 32 42*	60.4 N	147.1 W	15	4.4	SOUTHERN ALASKA.
5	02 53 10.3	7.3 N	73.3 W	105	4.8	NORTHERN COLOMBIA.
5	03 26 46.1	17.7 S	68.9 W	33	4.9	BOLIVIA.
5	04 05 08.3	59.7 N	148.9 W	33	4.6	KENAI PENINSULA, ALASKA.
5	08 01 48.4	45.5 N	150.1 E	40	4.9	KURILE ISLANDS.
5	08 42 06.2	52.0 N	173.8 W	45	4.0	ANDREANOF ISLANDS, ALEUTIAN IS.
5	08 44 59.1	9.0 S	156.6 E	33	5.1	SOLOMON ISLANDS.
5	09 32 12*	52.0 N	172.8 W	33	4.3	ANDREANOF ISLANDS, ALEUTIAN IS.
5	11 12 52*	55.8 S	4.3 W	33		SOUTH ATLANTIC RIDGE.
5	14 38 06*	43.2 N	87.8 E	33	4.6	NORTHERN SINKIANG PROV., CHINA.
5	16 13 44.5	58.2 N	149.7 W	25	5.0	GULF OF ALASKA.
5	18 03 30*	39.0 S	175.2 E	178		NORTH ISLAND, NEW ZEALAND.
5	22 41 07.1	61.8 N	156.7 W	33	4.7	SOUTHERN ALASKA.
6	00 02 06.8	8.4 S	121.7 E	33	5.3	FLORES ISLAND REGION.
6	00 59 53*	59.6 N	146.8 W	33	4.1	GULF OF ALASKA.
6	01 26 32*	13.4 N	91.4 W	69	4.0	NEAR COAST OF GUATEMALA.
6	04 27 02.4	60.7 S	25.2 W	33		SOUTH SANDWICH ISLANDS REGION. MAG. 5-5 1/4 (PAL).
6	04 44 13*	57.5 N	149.3 W	33	4.2	GULF OF ALASKA.
6	08 10 47.5	11.1 S	162.2 E	40	5.1	SOLOMON ISLANDS. MAG. 6 1/4-6 1/2 (BRK), 5 1/2-5 3/4 (PAL).
6	09 38 12*	59.7 N	142.8 W	33	4.6	GULF OF ALASKA.
6	15 26 35.5	56.7 N	152.1 W	15	5.4	KODIAK ISLAND REGION. MAG. 5-5 1/4 (BRK), 5 3/4 (PAL).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
6	16 54 02.0	35.1 N	118.8 W	14	4.6	CENTRAL CALIFORNIA. MAG. 4 (BRK).
6	17 10 53.7	38.0 N	142.4 E	33	4.7	NEAR EAST COAST OF HONSHU, JAPAN.
6	20 45 14.0	45.5 N	151.6 E	40	4.9	KURILE ISLANDS.
7	00 15 48.9	60.1 N	147.4 W	33	4.2	SOUTHERN ALASKA.
7	00 34 57.2	18.2 S	176.6 W	300	5.4	FIJI ISLANDS REGION.
7	03 19 18*	18.7 S	69.7 W	120	3.6	NORTHERN CHILE.
7	03 49 53.8	4.6 S	153.5 E	53	4.6	NEW IRELAND REGION.
7	04 02 28.7	51.6 N	177.3 W	25	5.0	ANDREANOF ISLANDS, ALEUTIAN IS. MAG. 4 3/4 (PAL).
7	05 45 29.5	4.0 S	34.9 E	33	6.4	TANGANYIKA. MAG. 6-6 1/4 (BRK), 6 1/4-6 1/2 (PAL). 1 KILLED AT BABATI, 19 INJURED AT MBULU, EXTENSIVE PROPERTY DAMAGE.
7	07 58 14.3	40.4 N	139.0 E	33	6.2	NEAR WEST COAST OF HONSHU, JAPAN. MAG. 7 (PAS), 7 (BRK), 6 1/2-6 3/4 (PAL). FELT IN NORTHERN HONSHU AND HOKKAIDO.
7	08 07 04.3	40.2 N	139.4 E	15	5.2	NEAR WEST COAST OF HONSHU, JAPAN.
7	08 26 10.7	40.4 N	139.3 E	33	5.0	NEAR WEST COAST OF HONSHU, JAPAN.
7	08 51 02*	40.5 N	138.4 E	33	4.3	EASTERN SEA OF JAPAN.
7	09 27 27*	40.3 N	137.6 E	33	4.6	EASTERN SEA OF JAPAN.
7	09 47 30*	40.5 N	138.2 E	25	4.3	EASTERN SEA OF JAPAN.
7	11 11 04.9	30.6 N	137.7 E	469	5.1	SOUTH OF HONSHU, JAPAN.
7	11 42 30.4	43.3 N	110.4 W	33		WYOMING.
7	12 08 03.6	40.5 N	138.9 E	33	4.9	EASTERN SEA OF JAPAN.
7	12 56 03*	23.9 N	108.8 W	33	4.4	GULF OF CALIFORNIA.
7	13 19 49*	54.8 N	161.5 W	33	4.2	ALASKA PENINSULA.
7	17 41 39.8	36.0 N	70.7 E	108	4.7	HINDU KUSH REGION.
7	19 12 38*	60.4 N	144.8 W	15	4.5	SOUTHERN ALASKA.
7	20 12 49.3	40.5 N	139.0 E	33	5.9	NEAR WEST COAST OF HONSHU, JAPAN. MAG. 6 1/2 (PAS), 6 1/2 (BRK), 6 (PAL). MINOR DAMAGE IN AKITA PROVINCE.
7	23 12 21.3	32.9 S	178.3 W	33	4.4	SOUTH OF KERMADEC ISLANDS.
8	01 35 08.2	43.3 N	111.3 W	33		EASTERN IDAHO.
8	03 35 59.9	32.7 S	178.3 W	40	4.5	SOUTH OF KERMADEC ISLANDS.
8	03 57 50.1	33.1 S	178.3 W	47	4.3	SOUTH OF KERMADEC ISLANDS.
8	04 10 31.9	32.8 S	178.4 W	33	4.0	SOUTH OF KERMADEC ISLANDS.
8	05 26 47*	14.3 N	145.1 E	33	4.8	MARIANA ISLANDS.
8	05 56 14*	59.2 N	153.9 W	25	4.4	SOUTHERN ALASKA.
8	06 05 47*	56.7 N	154.2 W	33	3.9	KODIAK ISLAND REGION.
8	06 22 14*	9.7 N	125.0 E	379		MINDANAO, PHILIPPINE ISLANDS.
8	09 23 33.1	59.4 N	145.4 W	20	4.5	GULF OF ALASKA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
8	10 04 16*	43.4 N	126.6 W	33	4.3	OFF COAST OF OREGON.
8	10 27 54.3	24.0 N	108.6 W	33	4.6	GULF OF CALIFORNIA.
8	10 52 17*	0.3 N	93.2 W	33	4.2	GALAPAGOS ISLANDS REGION.
8	12 25 54*	41.4 N	142.4 E	33	4.3	HOKKAIDO, JAPAN REGION.
8	16 21 49.8	56.7 N	154.0 W	25	5.3	KODIAK ISLAND REGION. MAG. 5 (BRK), 5 1/2 (PAL).
8	20 36 54.1	24.2 S	69.3 W	78	4.9	NORTHERN CHILE.
8	20 37 38*	54.2 N	165.0 W	33	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.
8	21 34 40.6	60.8 N	143.6 W	35	5.4	SOUTHERN ALASKA. MAG. 4 1/2-4 3/4 (BRK), 5 1/2-5 3/4 (PAL).
8	21 45 47*	1.7 N	126.5 E	33	4.7	MOLUCCA PASSAGE.
8	21 54 42*	61.1 N	143.0 W	33	4.1	SOUTHERN ALASKA.
8	21 59 21.9	71.1 N	6.2 W	25	4.9	JAN MAYEN ISLAND REGION.
8	22 38 04*	59.8 N	146.0 W	33	3.7	GULF OF ALASKA.
8	23 40 44.1	52.2 N	169.5 W	20	5.2	FOX ISLANDS, ALEUTIAN ISLANDS. MAG. 5 1/2 (PAL).
8	23 53 21.1	40.4 N	142.2 E	47	4.5	NEAR EAST COAST OF HONSHU, JAPAN.
9	00 15 26*	52.0 N	169.8 W	33		FOX ISLANDS, ALEUTIAN ISLANDS.
9	00 22 49.0	40.4 N	138.8 E	33	4.6	EASTERN SEA OF JAPAN.
9	01 16 10*	59.7 N	146.8 W	33	3.8	GULF OF ALASKA.
9	02 02 28.8	52.2 N	169.6 W	25	5.1	FOX ISLANDS, ALEUTIAN ISLANDS. MAG. 5 1/4 (PAL).
9	07 22 19*	34.1 N	116.7 W	33		SOUTHERN CALIFORNIA.
9	07 39 35.9	44.5 N	150.4 E	33	4.2	KURILE ISLANDS REGION.
9	07 47 02.4	29.6 N	52.5 E	34		SOUTHERN IRAN.
9	12 05 24.1	44.5 N	150.1 E	33	3.9	KURILE ISLANDS REGION.
9	12 13 04.9	21.6 S	174.6 W	33	4.5	TONGA ISLANDS.
9	13 48 05.3	8.1 N	123.2 E	60	5.7	MINDANAO, PHILIPPINE ISLANDS.
9	14 05 27.1	45.2 N	150.0 E	33	4.6	KURILE ISLANDS.
9	14 18 39*	45.0 N	111.1 W	33		MONTANA.
9	15 10 12.1	40.7 N	139.0 E	25	5.1	NEAR WEST COAST OF HONSHU, JAPAN. FELT.
9	18 16 17.5	13.7 S	166.6 E	41	5.0	NEW HEBRIDES ISLANDS.
9	18 53 26*	59.9 N	147.9 W	33	3.9	GULF OF ALASKA.
9	19 52 14.4	50.7 N	170.3 W	33	4.5	ALEUTIAN ISLANDS REGION.
9	20 06 38*	5.8 S	81.3 W	104	4.4	NEAR COAST OF NORTHERN PERU.
9	21 06 12.2	61.7 N	152.0 W	25	5.0	SOUTHERN ALASKA.
9	21 07 41.6	9.2 S	156.7 E	26	5.4	SOLOMON ISLANDS.
10	02 00 28*	59.9 N	146.5 W	33	3.6	GULF OF ALASKA.
10	05 39 42.6	29.0 N	141.5 E	62	5.3	SOUTH OF HONSHU, JAPAN. MAG. 4 3/4-5 (BRK).

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MAY	H M S	DEG	DEG	KM		
10	06 27 45.6	4.6 S	153.2 E	77	4.6	NEW IRELAND REGION. FELT AT RABAUL.
10	06 29 15*	52.2 N	169.5 W	35	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
10	07 50 44*	1.6 N	126.3 E	33	5.6	MOLUCCA PASSAGE.
10	08 12 34.5	47.0 N	142.1 E	18	4.4	SAKHALIN ISLAND.
10	08 34 31.7	7.7 N	75.3 W	60	4.2	NORTHERN COLOMBIA.
10	09 44 59*	10.5 N	62.4 W	45	4.2	NEAR COAST OF VENEZUELA.
10	10 45 52.3	40.5 N	139.0 E	33	4.8	NEAR WEST COAST OF HONSHU, JAPAN. FELT.
10	11 39 13*	52.3 N	169.5 W	40	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
10	12 01 24*	60.7 N	148.4 W	33	3.7	KENAI PENINSULA, ALASKA.
10	13 44 03*	51.4 N	129.2 W	33	4.1	QUEEN CHARLOTTE ISLANDS REGION.
10	14 46 15*	59.9 N	147.1 W	15	4.5	GULF OF ALASKA.
10	15 40 53*	60.1 N	146.3 W	15	4.3	SOUTHERN ALASKA.
11	02 17 01.5	60.8 N	142.2 W	33	4.7	SOUTHERN ALASKA.
11	02 52 55.6	21.2 S	179.0 W	553	3.6	FIJI ISLANDS REGION.
11	03 31 38.7	60.2 N	147.2 W	33	3.9	SOUTHERN ALASKA.
11	05 29 16.6	24.6 S	179.9 E	515	4.8	SOUTH OF FIJI ISLANDS.
11	06 07 41.5	28.3 N	57.4 E	62	4.9	SOUTHERN IRAN.
11	09 45 22.2	58.4 N	152.3 W	15	4.3	KODIAK ISLAND REGION.
11	10 03 09.7	45.5 N	151.9 E	33	4.7	KURILE ISLANDS.
11	14 39 04*	22.5 S	175.8 W	50	5.3	TONGA ISLANDS REGION.
11	14 57 16.6	4.3 N	127.9 E	60	5.7	TALAUD ISLANDS.
11	16 53 39.1	6.4 N	124.0 E	567	5.2	MINDANAO, PHILIPPINE ISLANDS.
11	18 22 47*	56.6 N	154.0 W	33	4.2	KODIAK ISLAND REGION.
11	20 10 37*	60.3 N	146.1 W	33	4.0	SOUTHERN ALASKA.
11	20 38 11.5	17.1 S	174.4 W	104	4.2	TONGA ISLANDS.
12	00 47 09*	7.1 N	73.2 W	128	4.0	NORTHERN COLOMBIA.
12	01 37 59.5	26.2 S	178.3 E	607	4.6	SOUTH OF FIJI ISLANDS.
12	02 04 16*	56.9 N	151.4 W	25	4.0	KODIAK ISLAND REGION.
12	06 42 49*	49.1 N	177.2 E	33	4.9	ALEUTIAN ISLANDS REGION.
12	06 45 13.3	22.3 S	176.3 W	33	4.5	SOUTH OF FIJI ISLANDS.
12	06 45 14.1	40.2 N	76.5 W	33	4.5	PENNSYLVANIA. FELT AT CORNWALL.
12	07 08 44.6	11.0 S	126.0 E	33	4.9	TIMOR SEA.
12	08 27 04*	0.7 S	77.2 W	33	4.0	ECUADOR.
12	10 02 27.1	19.9 S	173.9 W	33	5.1	TONGA ISLANDS.
12	11 15 35.1	29.0 N	141.5 E	26	4.7	SOUTH OF HONSHU, JAPAN.
12	11 47 32.2	60.1 N	147.0 W	15	4.7	SOUTHERN ALASKA.
12	16 55 46.9	59.5 N	144.8 W	33	4.9	GULF OF ALASKA. MAG. 5 1/2 (BRK).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
12	18 16 41.9	56.6 N	152.4 W	10	5.3	KODIAK ISLAND REGION. MAG. 5 1/2-5 3/4 (BRK), 6-6 1/4 (PAL).
12	18 17 07.7	19.9 S	173.9 W	33	5.5	TONGA ISLANDS.
12	18 28 57.5	56.6 N	152.2 W	20	4.4	KODIAK ISLAND REGION.
12	23 37 50.4	59.4 N	143.1 W	20	4.7	GULF OF ALASKA.
12	23 42 23.0	59.5 N	143.1 W	25	4.5	GULF OF ALASKA.
13	00 07 01.8	14.8 S	176.7 W	33	4.7	FIJI ISLANDS REGION.
13	00 07 42.1	56.2 N	152.7 W	33	4.9	KODIAK ISLAND REGION.
13	03 19 43.2	76.0 N	8.2 E	33	4.5	SVALBARD REGION.
13	05 25 26.1	32.8 S	178.3 W	33	5.3	SOUTH OF KERMADEC ISLANDS. MAG. 6 1/2 (PAS), 5 3/4 (BRK).
13	07 43 00*	56.8 N	153.8 W	25	3.7	KODIAK ISLAND REGION.
13	08 11 00*	33.1 S	178.0 W	15	4.4	SOUTH OF KERMADEC ISLANDS.
13	10 08 54*	19.7 N	142.7 E	33	4.6	MARIANA ISLANDS REGION.
13	11 06 16.4	21.8 S	179.6 W	578	4.6	FIJI ISLANDS REGION.
13	12 18 34.8	36.4 N	121.2 W	14	4.4	CENTRAL CALIFORNIA. MAG. 4-4 1/2 (BRK). FELT AT HOLLISTER.
13	13 47 32*	60.6 N	141.4 W	33	3.7	SOUTHEASTERN ALASKA.
13	15 06 03*	60.0 N	145.9 W	33	4.2	SOUTHERN ALASKA.
13	16 42 48.3	32.7 S	178.6 W	33	5.1	SOUTH OF KERMADEC ISLANDS. MAG. 5 1/2 (BRK).
13	20 37 54*	32.4 S	178.3 W	70	4.9	SOUTH OF KERMADEC ISLANDS.
13	23 34 26.1	40.5 N	138.6 E	33	4.8	EASTERN SEA OF JAPAN.
14	00 52 10*	33.3 S	178.3 W	33	4.5	SOUTH OF KERMADEC ISLANDS.
14	01 05 47.6	32.9 S	178.8 W	309	4.6	SOUTH OF KERMADEC ISLANDS.
14	01 52 47.3	33.4 S	71.2 W	69	4.0	NEAR COAST OF CENTRAL CHILE. FELT AT SANTIAGO AND VALPARAISO.
14	02 30 32.2	4.5 S	152.9 E	32	4.9	NEW BRITAIN REGION. FELT AT RABAUL.
14	08 59 41*	7.6 S	155.9 E	33	4.8	SOLOMON ISLANDS.
14	09 54 58*	18.7 S	174.8 W	47	4.2	TONGA ISLANDS.
14	11 30 14*	15.3 S	70.6 W	167	4.0	SOUTHERN PERU.
14	11 55 28.2	62.8 N	152.3 W	15	4.6	CENTRAL ALASKA.
14	13 23 29*	32.5 S	178.2 W	29	4.4	SOUTH OF KERMADEC ISLANDS.
14	13 52 14.4	65.3 N	86.5 W	33	4.5	NORTHWEST TERRITORIES, CANADA.
14	14 19 05*	59.7 N	144.4 W	33	4.5	GULF OF ALASKA.
14	14 40 00.1					37° 07' 02"N. 116° 02' 20"W. NEVADA TEST SITE."BACKSWING." SHOT ELEVATION 1146.9 METERS (AEC).
14	14 44 06.4					"BACKSWING" COLLAPSE.
14	15 12 05*	59.8 N	147.0 W	33	4.1	GULF OF ALASKA.
14	20 01 01.0	21.3 S	179.3 W	606	4.7	FIJI ISLANDS REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
15	01 12 40*	33.4 N	16.0 E	33		MEDITERRANEAN SEA.
15	02 13 57*	12.8 N	87.5 W	51	3.7	NEAR COAST OF NICARAGUA.
15	02 56 15*	60.1 N	147.0 W	33	3.8	SOUTHERN ALASKA.
15	04 02 39*	57.6 N	152.2 W	20	3.9	KODIAK ISLAND REGION.
15	05 11 17*	61.4 N	147.9 W	33	3.7	SOUTHERN ALASKA.
15	05 46 32.7	9.8 N	85.5 W	33	4.2	OFF COAST OF COSTA RICA.
15	10 17 45.9	12.4 N	89.0 W	53	4.4	OFF COAST OF CENTRAL AMERICA. FELT AT SAN SALVADOR, EL SALVADOR.
15	10 50 21*	3.5 S	149.1 E	44	4.7	BISMARCK SEA.
15	12 10 25.4	10.5 N	85.7 W	33	4.5	COSTA RICA.
15	12 59 28.3	13.0 N	143.9 E	110	4.4	SOUTH OF MARIANA ISLANDS.
15	14 02 41*	57.1 S	58.9 W	33	4.9	SCOTIA SEA.
15	16 15 00.1					37° 02' 30"N. 116° 00' 44"W. NEVADA TEST SITE."MINNOW." SHOT ELEVATION 984.5 METERS (AEC).
15	16 25 35.8					"MINNOW" COLLAPSE.
15	19 40 35*	31.5 N	113.7 W	33	4.7	GULF OF CALIFORNIA. MAG. 5 (PAS), 5 1/4 (BRK).
15	19 56 25*	31.6 N	114.1 W	33	4.6	GULF OF CALIFORNIA.
15	21 20 42*	31.2 N	113.2 W	33	4.4	GULF OF CALIFORNIA.
16	01 58 36.4	10.5 S	161.9 E	33	5.1	SOLOMON ISLANDS.
16	02 40 10*	59.6 N	145.0 W	33	3.8	GULF OF ALASKA.
16	05 40 11.1	7.1 N	73.2 W	126	4.4	NORTHERN COLOMBIA.
16	06 00 58.1	49.9 N	78.3 E	0	5.6	EASTERN KAZAKH SSR. MAG. 4 1/4-4 1/2 (BRK).
16	08 38 54.0	36.3 N	71.5 E	122	5.3	AFGHANISTAN-USSR BORDER REGION.
16	09 51 41.0	54.0 N	164.1 W	33	4.7	UNIMAK ISLAND REGION.
16	10 27 36*	59.3 N	152.0 W	35	3.7	SOUTHERN ALASKA.
16	14 33 17*	13.6 S	165.6 E	62	4.6	NEW HEBRIDES ISLANDS.
16	14 44 54*	57.6 N	151.0 W	33	5.4	KODIAK ISLAND REGION. MAG. 4 3/4-5 (BRK).
16	16 07 46.2	32.8 S	178.3 W	33	5.4	SOUTH OF KERMADEC ISLANDS. MAG. 6 (PAS), 5 1/2 (BRK), 5 3/4-6 (PAL).
16	16 08 40*	44.5 N	128.1 W	33	4.4	OFF COAST OF OREGON.
16	17 26 28.0	42.1 N	132.7 E	427	4.2	NEAR E. COAST OF EASTERN RUSSIA.
17	00 50 17.9	59.4 N	142.7 W	35	5.1	GULF OF ALASKA. MAG. 5 3/4 (PAS), 6-6 1/4 (BRK), 6 1/4-6 1/2 (PAL).
17	04 41 44*	53.9 N	159.7 W	33	5.5	SOUTH OF ALASKA. MAG. 4 3/4 (PAL).
17	06 30 01*	17.7 S	69.6 W	149	3.8	PERU-BOLIVIA BORDER REGION.
17	07 52 59*	7.9 S	74.3 W	152	3.9	PERU-BRAZIL BORDER REGION.
17	11 15 03.7	19.5 S	176.7 W	266	4.3	FIJI ISLANDS REGION.
17	17 05 24.8	33.2 S	178.4 W	33	4.6	SOUTH OF KERMADEC ISLANDS.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
17	18 25 56*	33.3 S	178.3 W	59		SOUTH OF KERMADEC ISLANDS.
17	19 10 56.2	46.9 N	152.6 E	33	4.4	KURILE ISLANDS.
17	19 26 20.6	35.2 N	35.9 W	33	5.6	NORTH ATLANTIC RIDGE. MAG. 6 1/2 (PAS), 5 3/4-6 (BRK), 6-6 1/4 (PAL).
18	01 04 30.5	74.3 N	97.4 W	15	4.1	QUEEN ELIZABETH ISLANDS.
18	04 15 08.4	12.0 S	73.8 W	91	4.3	PERU.
18	05 12 32*	60.4 N	146.6 W	33	3.9	SOUTHERN ALASKA.
18	08 33 51*	52.2 N	158.4 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
18	13 47 22.7	59.6 N	145.0 W	20	4.6	GULF OF ALASKA.
18	14 12 10.1	21.2 S	174.5 W	33	5.6	TONGA ISLANDS. MAG. 4 1/2 (BRK).
18	16 01 17.8	49.6 S	123.1 E	33		SOUTH OF AUSTRALIA.
18	17 38 25.5	18.2 N	147.3 E	19	5.1	MARIANA ISLANDS REGION.
18	18 14 49*	59.7 N	145.0 W	33	4.0	GULF OF ALASKA.
18	20 03 03.9	36.5 N	24.0 E	33	4.6	SOUTHERN GREECE.
18	21 12 46.2	59.5 N	142.7 W	25	4.9	GULF OF ALASKA.
19	01 44 34*	60.4 N	147.5 W	15	4.3	SOUTHERN ALASKA.
19	02 23 45.2	59.4 N	145.2 W	20	4.3	GULF OF ALASKA.
19	02 28 34*	59.2 N	143.9 W	33	4.2	GULF OF ALASKA.
19	04 18 05.9	18.0 N	91.8 W	33	4.1	GULF OF CAMPECHE.
19	05 30 08.0	19.5 S	67.4 W	293	3.9	SOUTHERN BOLIVIA.
19	06 09 04.1	77.7 N	18.3 E	33	4.9	SVALBARD REGION. FELT AT LONGYEARBYEN.
19	06 23 38.7	45.0 N	112.7 W	33	3.8	MONTANA.
19	07 27 47.0	5.8 S	105.5 E	37		SUNDA STRAIT.
19	10 39 24.8	45.5 N	150.3 E	33	5.4	KURILE ISLANDS.
19	13 19 21*	59.7 N	152.3 W	33	4.2	SOUTHERN ALASKA.
19	14 42 40.7	60.2 N	146.3 W	33	4.9	SOUTHERN ALASKA.
19	15 37 35.9	57.0 N	152.8 W	25	4.9	KODIAK ISLAND REGION.
19	20 27 24.8	1.2 S	133.8 E	33		WEST NEW GUINEA REGION.
19	21 46 56.5	44.9 N	112.7 W	33	4.3	EASTERN IDAHO.
19	22 32 31.1	45.2 N	112.3 W	33		MONTANA.
19	23 03 41.8	0.7 S	80.2 W	54	5.4	NEAR COAST OF ECUADOR. MAG. 6 (PAS), 5 1/4-5 1/2 (BRK), 5 1/2 (PAL). HEAVY DAMAGE IN PORTO VIEJO, PUERTO MANTA AND CONTECRISTI.
19	23 22 04.0	48.3 N	154.4 E	50	4.7	KURILE ISLANDS.
20	01 55 23.8	61.3 N	148.3 W	33	4.0	SOUTHERN ALASKA.
20	02 21 26.4	45.0 N	112.8 W	33	4.0	MONTANA.
20	03 25 05.1	0.9 S	80.4 W	33	4.7	NEAR COAST OF ECUADOR.
20	04 53 30.3	31.4 S	178.2 W	33	4.8	KERMADEC ISLANDS.
20	05 32 13.7	58.0 N	149.6 W	20	4.9	GULF OF ALASKA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
20	06 01 14.8	2.7 S	139.3 E	61	5.8	NEAR N. COAST OF WEST NEW GUINEA. MAG. 5 3/4 (PAL).
20	09 28 38.5	60.2 N	147.4 W	33	4.4	SOUTHERN ALASKA.
20	21 03 18*	45.9 N	151.7 E	33	4.5	KURILE ISLANDS.
20	23 58 01.3	46.1 N	143.5 E	278	4.4	SAKHALIN ISLAND.
21	01 11 23.4	60.4 N	145.9 W	15	4.6	SOUTHERN ALASKA.
21	11 41 03.1	43.1 N	141.8 E	91	4.4	HOKKAIDO, JAPAN REGION.
21	13 31 50.9	60.2 N	147.2 W	33	4.2	SOUTHERN ALASKA.
21	15 36 01.5	59.0 N	153.5 W	15	5.3	SOUTHERN ALASKA. MAG. 4 3/4-5 (BRK).
21	16 26 38*	57.0 N	152.9 W	33	3.8	KODIAK ISLAND REGION.
21	22 30 11.0	59.3 N	145.3 W	38	4.1	GULF OF ALASKA.
21	22 32 33.9	17.5 N	83.9 W	33	4.9	CARIBBEAN SEA. MAG. 5 (PAL). FELT ON SWAN ISLAND.
21	23 10 49.0	44.5 N	149.6 E	45	4.7	KURILE ISLANDS.
22	00 26 44.8	34.7 S	179.6 W	58	4.5	SOUTH OF KERMADEC ISLANDS.
22	02 38 23.5	33.2 N	116.7 W	33	4.9	SOUTHERN CALIFORNIA.
22	04 59 26.2	20.3 S	169.4 E	144	4.7	NEW HEBRIDES ISLANDS.
22	05 12 32.7	28.0 N	16.1 W	33	4.2	CANARY ISLANDS REGION.
22	05 38 40.4	27.7 N	16.0 W	34	4.4	CANARY ISLANDS REGION.
22	10 03 42*	2.7 N	124.8 E	201	4.9	CELEBES SEA.
22	12 11 49.3	41.9 N	112.1 W	33		UTAH.
22	14 07 12*	8.3 N	126.3 E	121	4.6	MINDANAO, PHILIPPINE ISLANDS.
23	00 11 57*	15.0 N	56.0 E	33		ARABIAN SEA.
23	00 17 07.5	14.6 N	56.3 E	33		ARABIAN SEA.
23	01 57 32.2	28.1 N	110.6 W	33	4.7	NORTHWESTERN MEXICO.
23	06 29 24*	57.3 N	150.7 W	20	4.5	GULF OF ALASKA.
23	06 45 21*	11.7 N	86.6 W	93	4.6	NEAR COAST OF NICARAGUA.
23	11 22 33.3	28.6 N	139.4 E	409	5.1	BONIN ISLANDS REGION.
23	11 25 34.2	36.5 N	90.0 W	18	4.5	NEW MADRID, MISSOURI REGION.
23	15 00 35.2	36.5 N	89.9 W	18	4.3	NEW MADRID, MISSOURI REGION.
23	16 42 06.1	16.0 S	69.0 W	231	4.1	PERU-BOLIVIA BORDER REGION.
23	20 40 31.8	45.4 N	149.0 E	103	4.0	KURILE ISLANDS.
23	21 31 03.4	18.4 S	69.2 W	128	4.7	NORTHERN CHILE.
23	21 44 59.1					39° 22' 15.0"N. 106° 10' 03.6"W. CLIMAX, COLORADO. CHEMICAL EXPLOSION (416,235 LBS.). SHOT ELEVATION 3596.6 METERS.
24	00 00 50.2	30.1 N	82.1 E	33	5.1	TIBET.
24	00 40 21.9	60.2 N	148.0 W	15	4.9	KENAI PENINSULA, ALASKA.
24	03 06 09*	39.4 S	70.7 W	33	4.0	ARGENTINA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
24	04 13 05.3	22.6 S	174.1 W	33	5.7	TONGA ISLANDS REGION. MAG. 5-5 1/4 (BRK).
24	06 52 44.4	59.7 N	148.5 W	20	4.6	KENAI PENINSULA, ALASKA.
24	09 04 57.0	56.7 N	152.9 W	33	4.0	KODIAK ISLAND REGION.
24	10 16 21.5	59.9 N	145.5 W	15	4.3	GULF OF ALASKA.
24	10 31 24.1	34.3 N	141.1 E	33	5.2	OFF EAST COAST OF HONSHU, JAPAN.
24	14 33 11.9	34.4 N	141.0 E	31	4.6	OFF EAST COAST OF HONSHU, JAPAN.
24	16 36 05.4	35.8 N	70.8 E	164	5.0	HINDU KUSH REGION.
24	18 01 34.8	23.2 S	71.6 W	33	4.5	OFF COAST OF NORTHERN CHILE.
24	19 27 11.0	37.6 N	141.0 E	98	4.2	NEAR EAST COAST OF HONSHU, JAPAN.
24	20 32 36.3	19.1 S	177.9 W	441	3.6	FIJI ISLANDS REGION.
24	20 54 26.6	53.0 N	168.7 W	62	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
24	20 57 38.3	15.9 S	167.6 E	29	4.4	NEW HEBRIDES ISLANDS.
24	22 22 27.6	37.0 S	177.8 E	149	4.8	OFF E. COAST OF N. ISLAND, N.Z.
25	02 22 57*	19.8 N	104.8 W	33	3.4	NEAR COAST OF JALISCO, MEXICO.
25	04 59 39.6	30.6 S	178.0 W	33	4.3	KERMADEC ISLANDS REGION.
25	08 32 49.0	15.7 S	174.9 W	269	4.5	TONGA ISLANDS.
25	10 58 51.2	52.5 N	167.2 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
25	13 20 32*	84.4 N	103.9 E	33	4.5	NORTH OF SEVERNAYA ZEMLYA.
25	19 44 07.0	9.1 S	88.9 E	33	5.5	SOUTH INDIAN OCEAN.
25	20 23 32.1	38.0 N	21.2 E	77	4.1	GREECE.
26	00 25 40.6	39.5 N	109.4 W	33		UTAH.
26	02 37 04.8	2.9 S	130.3 E	33		CERAM.
26	05 33 45*	60.3 N	145.5 W	33	4.3	SOUTHERN ALASKA.
26	09 40 57.9	16.5 N	145.9 E	94	5.5	MARIANA ISLANDS.
26	10 59 12.3	56.2 S	27.8 W	120	5.9	SOUTH SANDWICH ISLANDS REGION. MAG. 7 1/2-7 3/4 (PAS), 7 1/2-7 3/4 (BRK), 7-7 1/4 (PAL).
26	11 52 27.9	8.4 N	77.0 W	26	5.1	PANAMA-COLOMBIA BORDER REGION. FELT AT BALBOA HEIGHTS, C.Z.
26	12 23 28*	56.1 S	27.7 W	149	5.4	SOUTH SANDWICH ISLANDS REGION.
26	15 42 34.0	56.1 S	27.4 W	82	5.4	SOUTH SANDWICH ISLANDS REGION.
26	21 58 34*	60.1 N	147.0 W	33	4.1	SOUTHERN ALASKA.
26	23 43 26*	56.1 S	26.6 W	153	5.2	SOUTH SANDWICH ISLANDS REGION.
27	00 54 52.0	15.6 S	167.8 E	157		NEW HEBRIDES ISLANDS.
27	00 56 42.5	56.1 S	27.6 W	105	5.6	SOUTH SANDWICH ISLANDS REGION. MAG. 6 1/2 (BRK), 5 (PAL).
27	04 22 38.0	14.6 N	93.5 W	63	4.4	NEAR COAST OF CHIAPAS, MEXICO.
27	06 16 09*	16.9 S	70.2 W	116	3.8	SOUTHERN PERU.
27	06 30 57.7	56.2 S	27.4 W	116	5.8	SOUTH SANDWICH ISLANDS REGION.
27	08 14 41*	6.7 S	130.6 E	33	5.0	BANDA SEA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
27	08 57 07.7	25.7 S	178.4 W	274	3.9	SOUTH OF FIJI ISLANDS.
27	09 50 03*	55.9 S	27.4 W	52	5.8	SOUTH SANDWICH ISLANDS REGION.
27	11 06 22.0	6.8 N	73.1 W	139	5.0	NORTHERN COLOMBIA. FELT AT BOGOTA AND BUCARAMANGA.
27	11 20 26.8	18.4 S	173.1 W	33	4.6	TONGA ISLANDS.
27	13 51 28.3	14.5 N	145.2 E	96	4.3	MARIANA ISLANDS.
27	15 48 17.3	21.0 S	174.5 W	33	4.1	TONGA ISLANDS.
27	17 52 08.4	59.1 N	146.4 W	33	4.0	GULF OF ALASKA.
27	19 02 02.4	56.4 S	28.4 W	61	6.0	SOUTH SANDWICH ISLANDS REGION.
27	20 48 44.9	22.3 S	66.3 W	94	3.9	JUJUY PROVINCE, ARGENTINA.
28	01 27 49*	19.6 N	70.2 W	33		DOMINICAN REPUBLIC REGION.
28	01 56 58.9	24.5 N	122.0 E	41	5.9	TAIWAN REGION. FELT.
28	03 57 19.0	16.8 S	177.7 W	388	4.4	FIJI ISLANDS REGION.
28	06 27 32.8	15.5 N	93.1 W	33	3.7	NEAR COAST OF CHIAPAS, MEXICO.
28	06 32 54*	7.8 N	126.8 E	103	4.7	MINDANAO, PHILIPPINE ISLANDS.
28	12 33 10.2	0.8 S	24.7 W	33	5.2	CENTRAL MID-ATLANTIC RIDGE.
28	12 49 57.5	13.4 S	74.9 W	103	5.2	PERU.
28	14 06 58*	60.2 N	147.7 W	33	3.7	SOUTHERN ALASKA.
28	16 18 04.2	58.3 N	150.6 W	25	5.4	GULF OF ALASKA. MAG. 4 1/2-4 3/4 (BRK).
28	17 51 13*	1.8 S	103.3 W	33	4.2	NORTHERN EASTER I. CORDILLERA.
28	21 09 09.5	3.6 S	102.7 W	33	4.5	NORTHERN EASTER I. CORDILLERA.
28	23 28 27.9	1.6 N	127.2 E	103	6.3	HALMAHERA.
29	01 11 10.4	37.3 N	114.8 W	33	3.6	SOUTHERN NEVADA.
29	02 47 38.0	53.7 N	167.8 W	33	4.7	FOX ISLANDS, ALEUTIAN ISLANDS.
29	03 34 51.8	60.1 N	146.5 W	15	4.7	SOUTHERN ALASKA.
29	05 08 02.2	44.7 N	149.4 E	50	4.7	KURILE ISLANDS.
29	05 35 10.6	32.4 S	67.3 W	132	4.4	MENDOZA PROVINCE, ARGENTINA.
29	07 22 01.2	21.9 S	171.5 E	33		LOYALTY ISLANDS REGION.
29	09 04 27.1	56.2 S	27.7 W	33	5.8	SOUTH SANDWICH ISLANDS REGION.
29	10 17 34.5	60.2 N	146.3 W	5	5.6	SOUTHERN ALASKA. MAG. 5-5 1/4 (BRK), 5 1/2 (PAL). FELT AT COLLEGE.
29	12 25 16.9	18.6 S	177.8 W	462	4.2	FIJI ISLANDS REGION.
29	14 45 50*	56.1 S	27.9 W	170	5.2	SOUTH SANDWICH ISLANDS REGION.
29	15 33 06*	56.3 S	28.0 W	120	5.7	SOUTH SANDWICH ISLANDS REGION.
29	18 35 02.3	26.2 S	178.3 E	614	5.4	SOUTH OF FIJI ISLANDS.
29	18 42 19.3	26.2 S	178.3 E	605	3.9	SOUTH OF FIJI ISLANDS.
29	19 01 57.0	26.1 S	178.3 E	613	4.1	SOUTH OF FIJI ISLANDS.
29	20 09 01*	0.5 S	134.7 E	33	5.1	WEST NEW GUINEA REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAY	H M S	DEG	DEG	KM		
30	03 18 08.3	59.5 N	148.5 W	15	5.5	KENAI PENINSULA, ALASKA. MAG. 4 1/4-4 1/2 (PAL).
30	14 30 45.3	36.2 N	141.1 E	49	5.4	NEAR EAST COAST OF HONSHU, JAPAN. MAG. 6 1/4 (PAS), 5 3/4-6 (BRK), 5 1/2-5 3/4 (PAL). FELT AT TOKYO.
30	17 20 37.6	41.3 N	141.9 E	57	4.8	HOKKAIDO, JAPAN REGION.
30	17 23 17.3	9.3 N	126.4 E	91	5.3	MINDANAO, PHILIPPINE ISLANDS.
30	19 24 41.3	28.4 S	69.8 W	84	4.2	CHILE-ARGENTINA BORDER REGION.
30	19 48 08*	53.5 N	170.6 W	97	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
30	20 02 22*	14.6 N	91.8 W	23	3.7	GUATEMALA.
30	22 34 33.3	56.6 N	152.3 W	15	4.7	KODIAK ISLAND REGION.
31	00 40 36.4	43.5 N	146.8 E	48	6.3	KURILE ISLANDS. MAG. 6 3/4-7 (PAS), 7 (BRK), 6 1/2-6 3/4 (PAL). FELT ON HOKKAIDO.
31	00 56 42.9	43.6 N	147.1 E	33	4.6	KURILE ISLANDS.
31	04 54 11.1	30.6 S	70.8 W	69	4.4	CHILE-ARGENTINA BORDER REGION.
31	10 24 54*	53.7 N	158.7 E	110	4.8	NEAR EAST COAST OF KAMCHATKA.
31	10 30 25.0	19.2 N	69.4 W	83	5.0	DOMINICAN REPUBLIC REGION.
31	13 19 46.5	35.3 N	103.1 E	33	5.1	KANSU PROVINCE, CHINA.
31	13 56 08*	23.3 S	177.8 W	204	3.7	SOUTH OF FIJI ISLANDS.
31	17 15 26.8	13.6 S	172.1 E	73	5.0	NEW HEBRIDES ISLANDS REGION. MAG. 4 3/4-5 (BRK).
31	18 34 16*	13.3 S	171.8 E	111	4.6	NEW HEBRIDES ISLANDS REGION.
31	19 58 09.9	9.2 S	79.5 W	40	4.3	OFF COAST OF NORTHERN PERU.

Date and Station	Phase (GCT)
	h m s
MAY 01	
H-00 17 22.0	
56.6N 151.5W	
h ABOUT 030KM	
COL EP	00 19 25.0
BOZ E(P)	00 23 03.0
EUR IP	00 23 20.1
FGU E(P)	00 23 39.6
TUC EP	00 24 30.5
MAY 01	
RCD EP	00 43 55.0
FGU EP	00 44 26.9
MAY 01	
COL EP	00 46 43.0
MAY 01	
BCN EP	02 43 21.0
FGU EP	02 44 00.9
MAY 01	
H-03 13 03.5	
57.4N 150.0W	
h ABOUT 030KM	
COL IP	03 14 53.8
SIT EP	03 14 56.3
HHM IP	03 18 10.8
BOZ EP	03 18 37.2
I	18 41.0
EUR IP	03 18 57.2
FGU IP	03 19 17.1
BCN EP	03 19 27.0
E	19 40.3
EPCP	22 16.8
RCD IP	03 19 30.0
TUC IP C	03 20 09.4
EPCP	22 29.8
CSC IP	03 22 03.0
SJP IP	03 24 21.4
E	24 26.8
MAY 01	
H-03 40 36.2	
59.7N 144.1W	
h ABOUT 020KM	
HHM EP	03 45 17.8
EUR IP	03 46 18.0
TUC E(P)	03 47 30.8
MAY 01	
COL IP	03 46 57.5

Date and Station	Phase (GCT)
	h m s
MAY 01	
PHI E(P)	04 05 10.4
MAY 01	
COL EP	05 34 33.0
MAY 01	
H-06 01 55.4	
60.5N 145.6W	
h ABOUT 020KM	
COL IP	06 03 04.8
SIT E(P)	06 03 27.8
HHM IP	06 06 46.8
BOZ EP	06 07 18.0
ES	12 00.0
EL	14 00.0
UKI E(P)	06 07 23.5
EUR IP	06 07 45.9
ISCP	14 40.6
ESCS	18 35.9
SLC EP	06 07 52.2
FGU IP	06 07 59.7
RCD EP	06 08 07.0
BCN EP	06 08 17.2
E>P	08 21.6
EPCP	11 15.5
ESCP	14 52.8
E	15 02.0
TUC EP D	06 08 58.4
ES	14 45.0
HON EPCP	06 11 18.0
EL	20 35.0
KIP E(P)	06 09 26.0
PHI EL	06 23 19.1
CSC EP	06 10 39.0
SJP EP	06 13 04.0
E	13 13.5
MAY 01	
COL EP	06 52 03.0
MAY 01	
H-07 08 12.2	
57.5N 150.6W	
h ABOUT 020KM	
COL EP	07 10 05.0
HHM EP	07 13 23.7
BOZ E(P)	07 13 58.0
EUR IP	07 14 10.0
FGU EP	07 14 29.4
I	14 32.1
BCN E(P)	07 14 45.0

Date and Station	Phase (GCT)
	h m s
TUC E(P)	07 15 22.0
E>P	15 28.6
CSC E(P)	07 17 23.0
MAY 01	
H-07 44 44.9	
59.7N 147.1W	
h ABOUT 035KM	
COL EP	07 46 02.0
HHM EP	07 49 39.7
BOZ EP	07 50 10.0
EUR IP	07 50 36.6
FGU E(P)	07 51 01.9
TUC EP	07 51 48.2
MAY 01	
COL IP	08 00 23.9
MAY 01	
COL EP	09 45 28.0
MAY 01	
H-11 23 09.1	
44.1N 148.6E	
h ABOUT 035KM	
COL E(P)	11 30 39.0
EUR EP	11 34 02.7
MAY 01	
H-14 04 45.1	
01.2N 085.2W	
h ABOUT 033KM	
BHP EP	14 07 04.0
MAY 01	
EUR IP	14 37 22.4
ES	38 00.4
MAY 01	
H-14 39 58.2	
60.4N 145.1W	
h ABOUT 033KM	
COL IP	14 41 08.1
HHM EP	14 44 43.6
EUR IP	14 45 45.3
TUC E(P)	14 46 57.4
MAY 01	
COL EP	15 12 04.0
MAY 01	
RCD E(P)	15 15 05.0
MAY 01	
H-15 57 28.6	
56.0N 167.6W	
h ABOUT 033KM	
COL EP	16 00 35.0

Date and Station	Phase (GCT)
	h m s
EUR IP	16 04 41.1
MAY 01	
SJP I(P)	16 03 42.4
MAY 01	
COL E(P)	16 04 46.2
EUR EP	16 08 40.1
TUC EP	16 09 44.4
MAY 01	
CSC IP	17 17 35.0
MAY 01	
COL EP	17 38 03.0
MAY 01	
ALQ EP	17 44 38.8
MAY 01	
EUR EP	18 01 37.8
MAY 01	
COL EP	18 04 41.0
MAY 01	
COL EP	19 29 09.0
MAY 01	
CSC IP	21 21 38.0
MAY 01	
COL EP	21 23 02.0
MAY 01	
ALQ E(P)	21 40 13.0
E	40 48.0
MAY 01	
EUR EP	21 58 27.3
MAY 01	
BCN IP	22 01 40.0
IS	01 42.0
MAY 01	
EUR IP	22 20 38.4
MAY 01	
EUR IP	22 23 52.1
MAY 01	
HHM EP	22 57 16.6
ES	57 38.6
FGU EP	22 58 37.7
IS	59 00.4
MAY 01	
SLC EP	23 09 25.0
MAY 01	
H-23 47 35.3	
32.3S 179.5W	
h ABOUT 033KM	
TUC EP	00 00 40.0
E(>P)	00 48.5
MAY 02	
CSC E(P)	01 14 56.0

Date and Station	Phase	Phase (GCT) h m s
MAR 02		
EUR	EP	01 20 06.9
	ES	20 24.9
MAY 02		
H-01 32 12.3		
17.1N 096.0W		
h ABOUT 033KM		
TUC	E(P)	01 36 47.0
ALQ	E(P)	01 36 50.0
MAY 02		
BOZ	IP	02 05 53.2
MAY 02		
COL	IP	02 25 24.8
MAY 02		
TUC	E(P)	03 04 35.0
MAY 02		
H-03 24 24.1		
43.6N 110.4W		
h ABOUT 033KM		
FGU	IP	03 25 06.8
	I(S)	25 44.3
HHM	E(P)	03 25 43.5
EUR	EP	03 25 51.3
MAY 02		
TUC	EP	03 30 22.0
MAY 02		
ALQ	EP	03 45 23.0
MAY 02		
FGU	EP	04 30 19.3
	ES	30 43.8
MAY 02		
H-04 43 50.1		
58.6N 151.1W		
h ABOUT 033KM		
COL	IP	04 45 26.1
MAY 02		
H-05 15 51.1		
4.0S 102.8E		
h ABOUT 106KM		
TUC	EP'	05 34 57.0
	ESKP	38 34.0
ALQ	EP'	05 35 03.0
	ESKP	38 35.0
MAY 02		
ALQ	IP	05 59 39.2
	ES	06 10 12.0
	IL	22 00.0
FGU	EP	06 00 50.2
MAY 02		
BOZ	IP	06 21 05.5
MAY 02		
ALQ	E(P)	06 39 43.5
MAY 02		
BOZ	EP	07 38 51.5
MAY 02		
UKI	E(P)	07 59 33.0
MAY 02		
HHM	E(P)	08 14 16.4
	E	15 16.4
EUR	EP	08 14 24.3
MAY 02		
H-08 28 46.7		
45.6N 149.8E		
h ABOUT 080KM		
COL	EP	08 36 02.0
EUR	EP	08 39 25.0
MAY 02		
HHM	E(P)	09 09 33.0
	ES	09 29.4
EUR	EP	09 10 03.4
MAY 02		
H-10 02 42.4		
59.4N 146.5W		
h ABOUT 033KM		
COL	EP	10 04 04.0
HHM	EP	10 07 33.4
EUR	EP	10 08 30.3
ALQ	E(P)	10 09 40.3
MAY 02		
ALQ	EP	10 04 41.0
MAY 02		
COL	EP	10 41 10.0
MAY 02		
TUC	EP	11 21 42.5
BCN	E(P)	11 22 39.0
MAY 02		
ALQ	E(P)	11 25 56.0
MAY 02		
H-11 21 30.2		
29.7S 061.4E		
h ABOUT 033KM		
COL	EP'	11 40 59.0
CSC	EP'	11 41 12.0
RCD	EP'	11 41 31.5
	E	42 14.0
FGU	EP'	11 41 35.5
ALQ	IP'	11 41 38.0
	E	42 45.5
	E(PP)	46 34.7
EUR	IP'	11 41 39.1
TUC	EP'	11 41 40.2
	E	41 52.0
BCN	EP'	11 41 41.5
MAY 02		
HHM	EP	11 42 11.6
EUR	IP	11 42 52.5
BCN	EP	11 43 04.4
MAY 02		
COL	EP	15 13 45.0
MAY 02		
COL	IP	15 28 44.8
MAY 02		
BOZ	EP	15 35 25.0
MAY 02		
COL	EP	15 42 45.0
MAY 02		
COL	IP	15 45 50.1
MAY 02		
H-16 11 00.2		
45.5N 150.3E		
h ABOUT 035KM		
COL	IP	16 18 19.8
	IS	24 13.0
SIT	IP	16 19 22.3
	IS	26 12.0
KIP	EP	16 19 40.0
	E	19 55.0
	ES	26 38.0
	E	29 34.0
	EL	30 56.0
	E(T)	17 11 11.0
HON	EP	16 19 42.0
	ES	26 38.0
	E	30 16.0
	EL	32 48.0
HHM	IP	16 21 12.5
UKI	EP	16 21 15.3
BUT	E(P)	16 21 26.5
	ES	30 03.5
EUR	IP	16 21 42.0
SLC	EP	16 21 52.7
	I	21 54.2
FGU	IP	16 22 00.4
BCN	IP C	16 22 00.9
	E>P	22 13.2
	I>P	22 19.0
	IPCP	22 29.2
	I>PCP	22 41.5
	ES	31 15.0
	EP'P'	50 12.3
	EP'P'	50 35.0
RCD	IP	16 22 09.0
	E>P	22 19.0
TUC	EP	16 22 29.7
	E>P	22 42.5
	ES	32 00.0
ALQ	IP	16 22 35.0
WAS	EP	16 23 42.0
	E	24 46.0
	ES	34 15.0
CSC	IP	16 23 50.0
	E>P	24 00.0
SJP	EP'	16 29 39.0
BHP	EPP	16 30 00.0
MAY 02		
H-16 33 47.9		
27.3S 178.9W		
h ABOUT 369KM		
TUC	EP	16 45 59.5
	E	46 04.3
MAY 02		
RCD	EP	16 50 12.0
HHM	E(P)	16 50 18.3
MAY 02		
EUR	IP	17 00 10.7
MAY 02		
H-17 08 57.6		
59.7N 147.0W		
h ABOUT 030KM		
COL	IP	17 10 15.7
FGU	E(P)	17 14 57.6
TUC	EP	17 16 02.0
MAY 02		
UKI	E(P)	19 14 47.4
MAY 02		
COL	IP	19 32 37.9
MAY 02		
H-19 53 10.7		
09.5N 084.5W		
h ABOUT 044KM		
BHP	IP	19 54 24.0
	IL	55 49.0
TUC	EP	19 59 46.5
MAY 02		
BOZ	E(P)	21 21 42.0
MAY 02		
RCD	EP	21 33 52.0
MAY 02		
RCD	EP	21 35 53.0
BOZ	IP	21 37 25.0

Date and Station	Phase (GCT)
	h m s
MAY 02	
SLC E(P)	22 00 00.2
FGU EP	22 00 33.4
MAY 02	
RCD EP	22 09 16.0
MAY 02	
COL IP	22 18 11.2
MAY 02	
RCD E(P)	22 21 39.0
MAY 02	
EUR IP	22 29 38.5
MAY 02	
BOZ IP	22 31 57.5
IL	32 10.0
MAY 02	
FGU EP	22 33 27.6
MAY 02	
EUR EP	22 35 54.0
MAY 03	
BOZ E(P)	00 27 26.0
MAY 03	
RCD E(P)	00 36 03.6
MAY 03	
BOZ EP	00 47 34.0
MAY 03	
ALQ EP	01 26 37.0
ES	29 42.0
MAY 03	
H-01 54 33.5	
40.3N 141.9E	
h ABOUT 059KM	
COL IP	02 02 54.0
HHM IP	02 05 36.3
EUR IP	02 06 02.5
FGU EP	02 06 19.2
BCN EP	02 06 19.4
E	06 22.6
RCD EP	02 06 27.0
TUC EP	02 06 45.4
MAY 03	
BOZ EP	02 32 53.2
MAY 03	
COL EP	02 58 53.0
MAY 03	
COL EP	03 27 07.0
MAY 03	
COL IP	04 30 47.9
MAY 03	
COL EP	04 40 05.0

Date and Station	Phase (GCT)
	h m s
MAY 03	
H-04 43 12.4	
17.9S 178.3W	
h ABOUT 569KM	
GUA E(P)	04 51 05.0
EUR EP	04 54 32.0
TUC EP	04 54 33.6
COL I(P)	04 54 50.9
MAY 03	
RCD E(P)	05 24 14.0
MAY 03	
EUR EP	06 20 25.8
TUC E(P)	06 22 02.5
MAY 03	
COL EP	07 11 15.0
MAY 03	
H-07 32 56.3	
56.5N 154.8W	
h ABOUT 030KM	
COL EP	07 35 06.0
EUR EP	07 39 08.7
RCD EP	07 39 44.0
EpP	39 51.5
TUC EP	07 40 19.2
EpP	40 26.8
EPCP	42 38.0
ALQ EP	07 40 20.0
EPCP	42 39.5
MAY 03	
EUR IP	07 57 09.7
MAY 03	
H-07 58 44.6	
58.1N 151.6W	
h ABOUT 033KM	
COL EP	08 00 28.0
HHM EP	08 03 59.2
EUR EP	08 04 47.3
MAY 03	
BOZ EP	11 55 31.6
E	55 41.0
MAY 03	
H-13 31 14.1	
23.9S 066.6W	
h ABOUT 210KM	
ALQ IP	13 42 03.0
TUC EP	13 42 05.0
RCD EP	13 42 38.0
EUR EP	13 42 52.4

Date and Station	Phase (GCT)
	h m s
MAY 03	
ALQ E(P)	13 56 42.0
MAY 03	
COL EP	14 46 11.0
MAY 03	
RCD EP	14 53 50.0
MAY 03	
H-15 28 29.6	
17.0N 096.0W	
h ABOUT 033KM	
TUC EP	15 33 03.8
ALQ IP	15 33 04.0
MAY 03	
H-15 28 50.0	
52.2N 172.1W	
h ABOUT 030KM	
COL EP	15 33 00.0
EUR IP	15 36 23.0
TUC EP	15 37 24.3
ALQ EP	15 37 36.0
MAY 03	
SJP EP	16 11 31.8
EL	12 05.0
MAY 03	
BCN E(P)	16 36 54.0
E	37 09.0
MAY 03	
BOZ E(P)	17 24 36.0
MAY 03	
ALQ E(P)	19 41 35.0
E(S)	42 10.0
MAY 03	
TUC E(P)	20 02 46.0
MAY 03	
COL EP	20 16 47.0
MAY 03	
HHM E(P)	21 29 13.0
MAY 03	
H-21 31 53.2	
59.0N 148.5W	
h ABOUT 025KM	
COL IP	21 33 21.2
EUR EP	21 37 46.8
MAY 03	
H-21 39 30.4	
61.0N 145.8W	
h ABOUT 033KM	
COL IP	21 40 31.7
MAY 03	
TUC E(P)	22 24 21.5
EL	24 47.4

Date and Station	Phase (GCT)
	h m s
MAY 03	
H-22 31 45.2	
44.9N 111.9W	
h ABOUT 033KM	
BOZ IP	22 31 57.8
BUT EP	22 32 07.5
HHM EP	22 32 42.6
EL	33 40.6
FGU E(P)	22 32 51.9
SLC E(P)	22 32 54.7
EUR E(P)	22 33 28.4
MAY 03	
COL IP	23 52 26.9
MAR 03	
TUC E(P)	23 58 11.0
MAY 03	
COL EP	23 59 56.0
MAY 04	
RCD EP	00 45 39.0
MAY 04	
COL IP	00 47 04.9
MAY 04	
BCN E(P)	02 02 43.1
MAY 04	
H-02 26 35.1	
56.0N 162.4W	
h ABOUT 199KM	
COL EP	02 29 13.0
HHM IP	02 32 28.5
EUR IP	02 33 07.3
FGU IP	02 33 29.6
TUC IP	02 34 13.8
E	34 20.8
SJP EP	02 38 15.5
MAY 04	
TUC E(P)	02 52 33.7
MAY 04	
COL EP	02 55 26.0
MAY 04	
COL EP	03 18 10.0
MAY 04	
TUC E(P)	03 56 12.0
MAY 04	
COL EP	03 56 54.0
MAY 04	
ALQ E(P)	04 31 10.0
MAY 04	
COL IP	04 31 10.1

Date and Station	Phase	(GCT) h m s
MAY 04		
BCN	E(P)	05 13 07.0
	E	13 28.8
	E	13 51.5
	EL	14 32.5
MAY 04		
BCN	E(P)	05 20 32.2
	EL	21 39.0
MAY 04		
H-05 40 35.2		
39.4N 110.8W		
h ABOUT 033KM		
FGU	IP	05 41 05.5
	IS	41 31.5
EUR	EP	05 41 36.9
ALQ	E(P)	05 41 57.0
	EL	42 18.0
	E	43 32.0
MAY 04		
TUC	EP	05 44 15.0
MAY 04		
COL	IP	06 20 19.6
	I(S)	20 43.1
MAY 04		
COL	EP	06 26 08.0
MAY 04		
BCN	E(P)	06 40 36.2
	EL	41 44.0
MAY 04		
H-09 00 10.1		
61.3N 141.8W		
h ABOUT 033KM		
COL	EP	09 01 18.0
EUR	EP	09 05 50.4
TUC	EP	09 07 03.7
MAY 04		
COL	EP	09 29 07.0
MAY 04		
EUR	IP	09 44 28.5
	ES	44 46.7
MAY 04		
H-12 04 46.1		
58.2N 152.3W		
h ABOUT 030KM		
COL	IP	12 06 29.3
HHM	IP	12 10 05.3
	I▸P	10 14.5
	ESCP	17 16.7
BUT	EP	12 10 24.7
	I▸P	10 33.7
EUR	IP	12 10 53.1
	I▸P	11 02.6
	EPCP	14 04.8
	ESCP	17 37.6
SLC	EP	12 11 02.6
FGU	IP	12 11 11.8
	ESCP	17 41.0
BCN	IP D	12 11 22.7
	E▸P	11 31.8
	E&P	11 36.1
	EPCP	14 14.2
	E▸PCP	14 23.0
	E&PCP	14 28.0
	ESCP	17 45.6
RCD	IP	12 11 23.0
	I▸P	11 32.0
TUC	IP D	12 12 04.2
	E▸P	12 13.0
	EPCP	14 28.0
ALQ	IP	12 12 04.5
	E▸P	12 13.8
	E	13 09.0
	EPCP	14 28.5
	E(SCP)	18 04.0
SJP	E(P)	12 16 20.5
MAY 04		
BHP	IP	12 59 46.0
MAY 04		
BHP	IP	13 08 19.0
	IS	08 38.0
MAY 04		
SJP	IP C	13 58 13.6
	IS	58 32.8
MAY 04		
COL	EP	14 15 44.0
MAY 04		
COL	EP	15 51 33.0
MAY 04		
H-17 05 19.8		
55.8S 004.4W		
h ABOUT 033KM		
SJP	EP	17 18 17.0
ALQ	EP'	17 24 16.0
TUC	EP'	17 24 21.0
MAY 04		
HHM	EP	17 42 21.5
MAY 04		
COL	EP	17 38 50.0
MAY 04		
ALQ	E(P)	18 15 57.0
	E	16 11.5
MAY 04		
COL	EP	18 29 07.0
MAY 04		
COL	EP	19 15 20.0
MAY 04		
EUR	IP	19 14 27.6
	EL	14 49.1
MAY 04		
H-19 25 40.5		
14.7S 076.0W		
h ABOUT 033KM		
TUC	EP	19 35 29.2
FGU	IP	19 36 10.6
MAY 04		
COL	IP	19 26 23.7
MAY 04		
EUR	IP	19 33 08.6
	ES	33 49.6
MAY 04		
ALQ	EP	19 54 47.0
MAY 04		
ALQ	IP	22 03 35.0
MAY 04		
TUC	E(P)	22 31 30.5
ALQ	E(P)	22 31 44.0
	E	32 16.0
MAY 04		
COL	EP	23 27 51.5
MAY 05		
H-00 21 56.9		
60.7N 147.6W		
h ABOUT 033KM		
COL	EP	00 23 00.0
HHM	EP	00 26 56.5
MAY 05		
COL	EP	01 13 28.0
MAY 05		
ALQ	IP	01 43 15.5
MAY 05		
H-02 04 17.9		
57.4N 149.5W		
h ABOUT 033KM		
COL	EP	02 06 07.0
HHM	EP	02 09 21.0
BOZ	IP	02 09 51.0
EUR	EP	02 10 08.8
FGU	EP	02 10 28.5
MAY 05		
H-02 32 42.3		
60.4N 147.1W		
h ABOUT 015KM		
COL	IP	02 33 50.9
HHM	EP	02 37 40.6
EUR	EP	02 38 39.5
MAY 05		
H-02 53 10.3		
07.3N 073.3W		
h ABOUT 105KM		
BHP	IP	02 54 42.0
SJP	E(P)	02 56 20.0
MAY 05		
TUC	E(P)	03 07 09.0
MAY 05		
H-03 26 46.1		
17.7S 068.9W		
h ABOUT 033KM		
SJP	EP	03 34 03.5
	E	34 17.0
TUC	E(P)	03 37 13.0
	E	37 18.0
ALQ	IP	03 37 14.0
	E▸P	37 22.0
	E	41 38.0
FGU	IP	03 37 54.8
EUR	IP	03 38 07.9
BOZ	IP	03 38 22.5
HHM	EP	03 38 40.5
MAY 05		
BHP	IP	03 41 35.0
	IS	42 00.0
MAY 05		
H-04 05 08.3		
59.7N 148.9W		
h ABOUT 033KM		
COL	IP	04 06 27.0
HHM	IP	04 10 13.3
BOZ	IP	04 10 40.9
EUR	EP	04 11 07.1
ALQ	IP	04 12 17.0
MAY 05		
HHM	IP	04 28 05.0
MAY 05		
TUC	E(P)	04 32 37.2
MAY 05		
COL	EP	04 53 37.0
MAY 05		
TUC	E(P)	05 12 30.0
	E	12 53.5
	EL	13 37.5
ALQ	EP	05 13 52.0
EUR	EP	05 13 59.1
	I	16 32.8

Date and Station	Phase (GCT)
	h m s
BOZ EP	05 15 31.2
MAY 05	
TUC E(P)	05 19 37.0
E	19 47.0
EL	20 25.0
MAY 05	
COL EP	05 24 04.0
MAY 05	
TUC E(P)	06 39 41.2
E	39 51.3
EL	40 33.0
MAY 05	
COL EP	06 51 16.0
MAY 05	
COL EP	07 16 35.0
MAY 05	
H-08 01 48.4	
45.5N 150.1E	
h ABOUT 040KM	
COL IP	08 09 08.0
HON E(S)	08 17 37.0
EL	23 21.0
HHM EP	08 12 01.0
BOZ IP	08 12 20.3
I	12 28.0
EUR IP	08 12 29.9
FGU EP	08 12 48.7
BCN IP D	08 12 49.3
I	12 52.2
E>P	12 59.7
TUC EP	08 13 19.0
E>P	13 30.0
ALQ IP	08 13 23.0
E>P	13 35.0
E	13 48.0
MAY 05	
TUC EP	08 15 57.1
MAY 05	
COL EP	08 29 14.0
MAY 05	
H-08 42 06.2	
52.0N 173.8W	
h ABOUT 045KM	
COL EP	08 46 22.0
HHM EP	08 49 17.5
BOZ EP	08 49 39.0
EUR EP	08 49 47.4
MAY 05	
TUC E(P)	08 42 51.5

Date and Station	Phase (GCT)
	h m s
MAY 05	
H-08 44 59.1	
09.0S 156.6E	
h ABOUT 033KM	
EUR EP	08 58 17.3
MAY 5	
H-09 32 12.2	
52.0N 172.8W	
h ABOUT 033KM	
COL E(P)	09 36 24.0
BOZ EP	09 39 42.0
EUR EP	09 39 50.0
MAY 05	
H-11 12 52.4	
55.8S 004.3W	
h ABOUT 033KM	
HHM EP'	11 32 13.5
MAY 05	
COL EP	11 32 15.0
MAY 05	
ALQ E(P)	11 32 50.0
MAY 05	
EUR IP	13 12 06.5
MAY 05	
TUC EP	13 15 15.3
EL	15 54.2
MAY 05	
TUC EP	13 39 58.7
MAY 05	
TUC EP	14 12 34.6
MAY 05	
BCN IP	15 10 03.5
I(S)	10 15.7
MAY 05	
EUR IP	15 11 45.0
MAY 05	
ALQ EP	15 38 31.5
MAY 05	
H-16 13 44.5	
58.2N 149.7W	
h ABOUT 025KM	
COL IP	16 15 23.1
HHM EP	16 18 51.0
BOZ IP	16 19 19.0
I	19 22.0
EUR IP	16 19 40.7
BCN EP	16 20 10.5
TUC EP	16 20 52.8
E>P	21 00.5
EPCP	23 13.0

Date and Station	Phase (GCT)
	h m s
MAY 05	
BOZ EP	16 14 46.5
E	15 16.0
MAY 05	
BOZ EP	16 40 43.0
HHM E(P)	16 40 44.5
MAY 05	
COL EP	16 42 20.0
MAY 05	
COL EP	17 34 02.0
MAY 05	
COL EP	18 11 44.0
MAY 05	
COL EP	18 24 10.0
MAY 05	
HHM E(P)	19 07 17.5
MAY 05	
COL EP	19 16 35.0
MAY 05	
ALQ E(P)	20 35 05.0
E(S)	35 42.5
MAY 05	
EUR EP	20 51 28.7
ES	51 56.2
MAY 05	
RCD EP	21 08 47.0
MAY 05	
EUR IP	21 15 08.1
E(S)	15 44.6
MAY 05	
EUR IP	21 29 53.7
ES	30 28.7
MAY 05	
COL EP	21 52 23.0
MAY 05	
TUC EP	22 18 17.8
MAY 05	
H-22 41 07.1	
61.8N 156.7W	
h ABOUT 033KM	
COL IP	22 42 24.9
HHM E(P)	22 46 47.0
EUR EP	22 47 39.0
MAY 05	
COL EP	22 50 16.0
MAY 05	
BHP IP	22 52 09.0
IS	52 56.0
MAY 05	
TUC EP	22 52 42.0

Date and Station	Phase (GCT)
	h m s
MAY 06	
H-00 59 53.2	
59.6N 146.8W	
h ABOUT 033KM	
COL EP	01 01 12.0
HHM EP	01 04 46.9
BOZ EP	01 05 16.5
EUR EP	01 05 39.2
TUC E(P)	01 06 55.8
MAY 06	
H-01 26 32.1	
13.4N 091.4W	
h ABOUT 069KM	
TUC E(P)	01 32 00.6
EUR EP	01 33 08.4
MAY 06	
BHP IP	01 43 42.0
IS	44 29.0
MAY 06	
H-04 27 02.4	
60.7S 025.2W	
h ABOUT 033KM	
TUC EP'	04 45 41.5
ALQ EP'	04 45 47.0
EUR EP'	04 46 03.6
BOZ EP'	04 46 03.6
E(PP)	48 06.5
HHM EP'	04 46 10.1
MAY 06	
H-04 44 13.3	
57.5N 149.3W	
h ABOUT 033KM	
COL EP	04 46 02.0
MAY 06	
EUR EP	05 27 50.4
MAY 06	
EUR EP	05 57 14.3
TUC EP	05 58 30.0
MAY 06	
COL E(P)	06 20 10.0
MAY 06	
EUR EP	06 23 52.3
TUC E(P)	06 25 13.0
ALQ EP	06 26 55.0
MAY 06	
COL EP	07 32 50.0
MAY 06	
TUC E(P)	07 46 52.0

Date and Station	Phase	Phase (GCT) h m s
MAY 06		
H-08 10 47.5		
11.1S 162.2E		
h ABOUT 040KM		
KIP	ES	08 27 11.0
	EL	31 45.0
HON	E(P)	08 19 48.0
COL	IP	08 23 16.2
BCN	EP	08 23 48.5
	E	24 07.5
EUR	IP	08 23 48.6
TUC	EP	08 24 00.5
	E(S)	34 34.0
HHM	EP	08 24 02.3
BOZ	EP	08 24 08.2
FGU	EP	08 24 14.3
ALQ	EP	08 24 19.0
	EPKKP	41 23.5
MAY 06		
COL	IP	09 03 16.9
MAY 06		
H-09 38 11.6		
59.7N 142.8W		
h ABOUT 033KM		
SIT	E(P)	09 39 29.5
COL	IP	09 39 36.1
HHM	E(P)	09 42 44.0
BOZ	EP	09 43 18.0
EUR	IP	09 43 46.8
ALQ	EP	09 44 57.0
MAY 06		
ALQ	E(P)	09 58 12.0
MAY 06		
RCD	EP	10 05 26.0
MAY 06		
RCD	EP	10 09 09.0
MAY 06		
COL	EP	10 17 05.0
MAY 06		
COL	EP	10 25 54.0
MAY 06		
CSC	E(P)	10 41 43.0
MAY 06		
ALQ	E(P)	11 08 26.5
MAY 06		
RCD	E(P)	11 44 50.5
	E	45 25.0
MAY 06		
COL	IP	11 49 12.7
MAY 06		
TUC	E(P)	12 17 41.0
MAY 06		
RCD	EP	12 22 03.5
MAY 06		
BHP	IP	13 17 53.0
	IS	17 58.0
MAY 06		
BCN	EP	13 46 04.4
	ES	46 25.5
EUR	EP	13 46 17.0
MAY 06		
BOZ	IP	14 02 15.5
	IL	02 27.0
HHM	E(P)	14 03 10.0
MAY 06		
H-15 26 35.5		
56.7N 152.1W		
h ABOUT 015KM		
COL	IP	15 28 40.9
SIT	E(P)	15 28 56.2
HHM	EP	15 31 53.3
	ES	36 07.3
BUT	E(P)	15 32 06.0
	E(S)	36 36.0
BOZ	EP	15 32 21.0
	ES	37 13.0
EUR	IP	15 32 38.5
SLC	EP	15 32 49.4
FGU	IP	15 33 00.0
BCN	EP D	15 33 07.5
RCD	EP	15 33 13.0
KIP	EP	15 33 33.0
HON	EP	15 33 37.0
	ES	39 15.0
	EL	42 48.0
TUC	IP D	15 33 49.8
	EPP	33 54.5
	ES	39 34.0
ALQ	IP	15 33 51.0
	EPP	34 05.0
	IS	39 56.0
PHI	E(S)	15 43 02.0
WAS	EP	15 35 40.0
	EL	53 46.0
CSC	EP	15 35 51.0
BHP	E(P)	15 38 00.0
SJP	EP	15 38 07.2
MAY 06		
BCN	E(P)	16 49 59.5
MAY 06		
H-16 54 02.0		
35.1N 118.8W		
h ABOUT 014KM		
BCN	EP	16 54 55.0
	I	55 05.0
	IS	55 45.0
EUR	IP	16 55 17.0
TUC	E(P)	16 55 50.0
MAY 06		
H-17 10 53.7		
38.0N 142.4E		
h ABOUT 033KM		
COL	EP	17 19 30.0
BOZ	EP	17 22 23.0
	IPP	22 32.0
EUR	IP	17 22 30.2
FGU	E(P)	17 22 48.0
ALQ	EP	17 23 18.0
MAY 06		
COL	IP	18 08 44.4
MAY 06		
TUC	EP	20 44 41.0
EUR	EP	20 44 46.7
BCN	EP	20 44 53.8
MAY 06		
COL	EP	20 45 31.0
MAY 06		
H-20 45 14.0		
45.5N 151.6E		
h ABOUT 040KM		
COL	IP	20 52 28.0
HHM	EP	20 55 21.2
BOZ	IP	20 55 41.0
EUR	IP	20 55 50.5
TUC	EP	20 56 38.6
MAY 06		
SLC	EP	21 21 15.3
FGU	EP	21 21 48.1
MAY 06		
FGU	IP	22 21 42.1
	ES	22 11.3
MAY 06		
BCN	IP	23 05 46.5
	IS	05 58.5
MAY 06		
BCN	IP	23 23 34.5
	IS	23 39.0
MAY 07		
H-00 15 48.9		
60.1N 147.4W		
h ABOUT 033KM		
COL	IP	00 17 02.1
HHM	EP	00 20 47.7
BOZ	IP	00 21 16.0
EUR	IP	00 21 44.0
TUC	EP	00 22 55.4
MAY 07		
H-00 34 57.2		
18.2S 176.6W		
h ABOUT 300KM		
BCN	EP	00 46 33.5
TUC	IP D	00 46 38.6
SLC	IP	00 46 55.1
COL	IP	00 47 02.0
FGU	IP	00 47 02.7
BOZ	IP	00 47 08.0
MAY 07		
EUR	IP	02 24 01.2
	IS	24 36.8
BCN	E(P)	02 24 13.0
	I	24 29.3
	EL	25 10.0
MAY 07		
COL	EP	03 09 49.0
MAY 07		
H-03 49 53.8		
04.6S 153.5E		
h ABOUT 053KM		
COL	IP	04 02 06.0
MAY 07		
H-04 02 28.7		
51.6N 177.3W		
h ABOUT 025KM		
COL	IP	04 07 04.5
HON	E(S)	04 14 35.0
	EL	17 44.0
HHM	IP	04 10 00.4
BOZ	IP	04 10 23.2
	I	10 39.5
EUR	IP	04 10 31.4

Date and Station	Phase (GCT)
	h m s
SLC EP	04 10 46.1
BCN EP	04 10 54.5
FGU IP	04 10 55.7
TUC EP	04 11 31.2
ALQ IP	04 11 39.0
E▸P	11 46.0
CSC IP	04 13 27.0
E▸P	13 34.0
SJP IP	04 15 20.0
I	15 36.2
MAY 07	
EUR EP	04 25 03.3
MAY 07	
COL EP	05 41 06.0
MAY 07	
H-05 45 29.5	
4.0S 034.9E	
h ABOUT 033KM	
WAS E	06 03 20.0
EPP	04 50.0
EL	34 16.0
COL EP'	06 04 16.0
IPP	05 34.5
IPKKP	14 33.2
HHM IP'	06 04 36.1
E(PP)	06 38.2
BOZ IP'	06 04 38.9
I	04 56.0
FGU EP'	06 04 41.8
EUR IP'	06 04 41.9
EPP	07 31.0
ESKP	08 25.5
BUT EP'	06 04 44.0
EPP	06 44.0
SLC EP'	06 04 45.5
ALQ IP'	06 04 46.5
EPP	07 16.0
BCN EP'	06 04 48.6
EP'	04 56.0
E	06 56.5
E(PP)	07 40.0
ESKP	08 22.0
EPPP	10 53.9
TUC EP'	06 04 54.4
HON EP'	06 05 34.0
E	06 04.0
E(PP)	09 49.0
E(PPP)	13 30.0
E	17 02.0
ESKSP	20 14.0
E(PPS)	23 16.0
E	31 20.0
EL	35 10.0

Date and Station	Phase (GCT)
	h m s
KIP E(PP)	06 09 47.0
ESKSP	20 18.0
E(PPS)	23 22.0
ESS	29 58.0
EL	35 26.0
MAY 07	
BHP EP	06 07 22.0
MAY 07	
H-07 58 14.3	
40.4N 139.0E	
h ABOUT 033KM	
GUA E(P)	08 03 57.0
COL IP	08 06 46.4
ES	13 44.0
SIT IP	08 07 46.0
IS	15 36.0
KIP IP	08 07 53.8
HON EP	08 07 55.0
ES	15 46.0
HHM IP	08 09 28.2
ES	19 20.4
EP'P'	36 51.2
UKI EP	08 09 32.0
BUT EP	08 09 44.0
BOZ IP D	08 09 46.9
E(▸P)	09 56.0
ES	18 38.5
IP'P'	37 02.0
EUR IP	08 09 56.2
EPP	12 33.6
EP'P'	36 57.1
SLC IP	08 10 04.9
FGU IP	08 10 11.3
BCN IP C	08 10 13.0
I(▸P)	10 21.0
I	13 57.0
ES	20 07.0
EP'P'	37 06.0
RCD IP	08 10 18.0
EPCP	10 28.0
TUC IP C	08 10 38.6
E(S)	21 00.0
EP'P'	37 01.0
ALQ IP	08 10 43.0
WAS IP	08 11 34.0
EPP	15 24.0
E(S)	22 48.0
EPKKP	28 32.0
E	35 16.0
EL	45 14.0
PHI E(P)	08 11 36.0
E(S)	22 13.0

Date and Station	Phase (GCT)
	h m s
CSC EP	08 11 47.0
E(PP)	15 20.0
E	15 45.0
SJP EP'	08 17 06.0
E	17 54.5
EPP	18 07.6
MAY 07	
H-08 07 04.3	
40.2N 139.4E	
h ABOUT 015KM	
COL IP	08 15 38.9
I▸P	15 43.7
EUR IP	08 18 47.1
BCN IP C	08 19 04.8
I▸P	19 10.6
TUC EP	08 19 32.3
ALQ IP	08 19 34.5
E▸P	19 40.0
MAY 07	
GUA IP	08 24 32.5
MAY 07	
H-08 26 10.7	
40.4N 139.3E	
h ABOUT 033KM	
COL IP	08 34 42.8
BOZ EP	08 37 42.5
EUR EP	08 37 57.2
I(▸P)	38 08.7
BCN EP	08 38 10.4
I(▸P)	38 23.0
TUC EP	08 38 35.8
E	38 50.3
MAY 07	
H-08 51 01.5	
40.5N 138.4E	
h ABOUT 033KM	
COL IP	08 59 34.7
BOZ EP	09 02 34.0
EUR EP	09 02 50.2
ALQ IP	09 03 31.0
MAY 07	
TUC E(P)	09 18 09.8
BCN EP	09 18 32.3
EL	20 08.0
EUR EP	09 19 31.7
E	21 59.0
MAY 07	
COL EP	09 22 08.0

Date and Station	Phase (GCT)
	h m s
MAY 07	
ALQ IP	09 19 52.0
E	19 57.0
MAY 07	
H-09 27 26.6	
40.3N 137.6E	
h ABOUT 033KM	
COL IP	09 36 03.9
I▸P	36 08.6
HHM EP	09 38 44.2
BOZ EP	09 39 03.0
EUR IP	09 39 12.8
BCN EP	09 39 29.3
E(▸P)	39 35.0
MAY 07	
H-09 47 30.1	
40.5N 138.2E	
h ABOUT 025KM	
COL IP	09 56 05.0
I▸P	56 11.6
HHM EP	09 58 46.1
BOZ IP	09 59 04.9
I▸P	59 11.5
EUR EP	09 59 14.1
E▸P	59 21.1
BCN EP	09 59 31.0
I▸P	59 38.4
ALQ EP	10 00 01.0
E▸P	00 08.0
MAY 07	
COL IP	09 47 42.0
MAY 07	
TUC E(P)	10 19 18.0
MAY 07	
BCN EP	10 21 02.8
MAY 07	
COL IP	10 59 22.8
BOZ EP	11 02 22.5
EUR EP	11 02 32.8
MAY 07	
H-11 11 04.9	
30.6N 137.7E	
h ABOUT 469KM	
GUA IP	11 14 48.7
E(S)	17 56.8
COL E(P)	11 20 20.4
E▸P	21 57.2
HHM IP	11 22 20.2
E▸P	24 02.2

Date and Station	Phase (GCT)
	h m s
BUT IP	11 22 30.2
I▸P	24 08.0
BOZ IP	11 22 34.0
EUR IP	11 22 38.7
E▸P	24 19.0
SLC IP	11 22 48.3
BCN IP D	11 22 51.7
E	23 48.5
E▸P	24 37.0
EPP	25 28.0
FGU IP	11 22 54.9
RCD IP	11 23 03.5
I(▸P)	24 49.0
TUC IP D	11 23 14.8
ALQ IP	11 23 20.0
E	23 42.0
E▸P	25 09.0
SJP EP:	11 29 14.2
MAY 07	
BHP IP	11 25 38.0
IS	26 11.5
MAY 07	
H-11 42 30.4	
43.3N 110.4W	
h ABOUT 033KM	
BOZ EP	11 43 08.2
IL	43 31.5
FGU EP	11 43 10.2
I	43 12.8
IS	43 44.4
SLC E(P)	11 43 13.8
EL	43 51.3
BUT E(P)	11 43 22.5
ES	43 58.0
EUR EP	11 43 54.8
MAY 07	
RCD E(P)	11 44 08.0
MAY 07	
H-12 08 03.6	
40.5N 138.9E	
h ABOUT 033KM	
COL IP	12 16 34.9
HHM EP	12 19 17.0
BOZ IP	12 19 34.5
EUR IP	12 19 45.9
BCN EP	12 20 02.5
MAY 07	
BCN IP	12 39 34.4
IS	39 41.4

Date and Station	Phase (GCT)
	h m s
EUR EP	12 40 24.7
E(S)	41 12.9
MAY 07	
H-12 56 03.3	
23.9N 108.8W	
h ABOUT 033KM	
TUC EP	12 58 03.4
E	58 14.3
ALQ IP	12 58 43.3
E	59 00.0
EL	13 01 59.0
BCN EP	12 59 10.5
EUR IP	12 59 56.3
SLC EP	12 59 59.8
FGU IP	13 00 00.7
RCD EP	13 00 42.0
BOZ IP	13 00 53.5
E	01 00.0
HHM EP	13 01 21.2
MAY 07	
H-13 19 49.4	
54.8N 161.5W	
h ABOUT 033KM	
COL EP	13 22 53.8
TUC EP	13 27 37.8
EUR E(P)	13 26 31.9
MAY 07	
BOZ EP	13 22 23.7
E(S)	22 54.0
FGU IP	13 22 35.2
IS	23 02.4
MAY 07	
EUR IP	13 25 02.4
ES	25 36.9
MAY 07	
COL EP	13 46 13.0
MAY 07	
COL IP	13 53 17.1
MAY 07	
ALQ EP	14 39 30.0
MAY 07	
COL IP	14 38 39.6
MAY 07	
COL IP	14 39 38.8
MAY 07	
COL IP	16 14 42.9
MAY 07	
ALQ E(P)	16 58 44.0
E	59 24.0

Date and Station	Phase (GCT)
	h m s
MAY 07	
H-17 41 39.8	
36.0N 070.7E	
h ABOUT 108KM	
COL EP	17 53 10.0
MAY 07	
COL EP	17 48 36.0
MAY 07	
COL EP	18 07 42.0
MAY 07	
COL IP	18 11 46.2
MAY 07	
COL IP	18 16 45.0
MAY 07	
H-19 12 37.8	
60.4N 144.8W	
h ABOUT 015KM	
COL IP	19 13 50.2
SIT EP	19 14 08.2
HHM EP	19 17 26.2
BOZ IP	19 17 58.0
EPCP	21 34.5
EUR IP	19 18 26.2
EPCP	21 42.1
FGU EP	19 18 39.8
TUC EP	19 19 39.2
MAY 07	
TUC EP	19 16 01.2
MAY 07	
TUC EP	19 42 30.0
MAY 07	
H-20 12 49.3	
40.5N 139.0E	
h ABOUT 033KM	
GUA E(P)	20 18 31.0
E	18 49.2
ES	23 13.2
EL	20 26.1
COL IP	20 21 20.8
ES	28 18.0
SIT IP	20 22 20.0
HON EP	20 22 28.0
ES	30 20.0
ESS	34 13.0
EL	35 56.0
KIP EP	20 22 28.0
ES	30 18.0
EL	35 55.0
HHM IP	20 24 01.7
UKI EP	20 24 02.5

Date and Station	Phase (GCT)
	h m s
BUT IP	20 24 14.0
EPP	27 00.0
E	32 26.0
BOZ IP	20 24 20.8
E(S)	34 00.0
EUR IP	20 24 30.4
SLC IP	20 24 38.5
FGU IP	20 24 46.1
BCN IP C	20 24 47.8
RCD EP	20 24 53.0
TUC IP C	20 25 13.8
E(S)	35 34.0
ALQ IP	20 25 17.0
WAS E(P)	20 26 03.0
CSC EPP	20 30 19.0
SJP EPP	20 32 40.0
MAY 07	
BHP EP	20 32 30.0
MAY 07	
CSC E(P)	20 58 42.0
MAY 07	
HHM EP	21 03 01.7
I	03 19.7
MAY 07	
EUR EP	21 08 47.7
MAY 07	
COL IP	21 42 31.0
MAY 07	
BCN EP	21 49 46.0
MAY 07	
SLC EP	21 54 13.5
MAY 07	
FGU EP	22 03 32.6
IS	04 02.8
MAY 07	
COL IP	22 03 44.4
MAY 07	
TUC EP	22 30 27.0
MAY 07	
EUR IP	22 35 13.9
EL	35 40.0
MAY 07	
EUR EP	22 49 27.7
MAY 07	
SLC EP	23 03 05.9
MAY 07	
BCN IP C	23 07 10.0
IS	07 12.5

Date and Station	Phase (GCT)
	h m s
MAY 7	
H-23 12 21.3	
32.9S 178.3W	
h ABOUT 033KM	
TUC EP	23 25 23.5
EUR EP	23 25 30.0
MAY 07	
TUC E(P)	23 36 45.5
MAY 08	
HHM EP	00 04 23.2
I	04 36.9
MAY 08	
H-01 35 08.2	
43.3N 111.3W	
h ABOUT 033KM	
BOZ IP	01 35 45.0
I(S)	36 17.0
SLC E(P)	01 35 49.4
EUR EP	01 36 26.2
MAY 08	
BOZ IP	01 59 30.0
EL	02 00 00.0
FGU E(P)	01 59 37.0
E(S)	02 00 07.0
MAY 08	
BUT EP	02 36 03.1
ES	36 28.1
MAY 08	
H-03 35 59.9	
32.7S 178.3W	
h ABOUT 040KM	
TUC E(P)	03 49 01.2
EUR EP	03 49 07.5
E▸P	49 17.5
MAY 08	
GUA IP	05 26 00.4
MAY 08	
H-05 26 47.0	
14.3N 145.1E	
h ABOUT 033KM	
EUR IP	05 39 34.9
MAY 08	
H-05 56 13.7	
59.2N 153.9W	
h ABOUT 025KM	
COL EP	05 57 49.0
HHM EP	06 01 41.4
BOZ EP	06 02 09.9
E	02 54.0
EUR IP	06 02 31.8
FGU IP	06 02 50.2

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	06 03 40.5
TUC EP	06 03 42.4
MAY 08	
FGU EP	06 01 57.7
MAY 08	
H-06 05 46.8	
56.7N 154.2W	
h ABOUT 033KM	
COL EP	06 07 55.0
MAY 08	
COL EP	06 16 42.0
MAY 08	
BOZ EP	07 48 20.8
EUR EP	07 48 31.1
MAY 08	
GUA EP	08 04 02.0
ES	08 50.0
MAY 08	
GUA IP	08 24 33.0
MAY 08	
COL EP	08 35 06.0
MAY 08	
UKI E(P)	09 04 07.5
MAY 08	
H-09 23 33.1	
59.4N 145.4W	
h ABOUT 020KM	
COL IP	09 24 56.9
HHM EP	09 28 20.1
BOZ EP	09 28 51.5
EPCP	32 30.0
EUR IP	09 29 18.6
FGU E(P)	09 29 33.8
BCN E(P)	09 29 55.4
ALQ E(P)	09 30 29.0
EPCP	33 02.3
E(SCP)	36 50.0
TUC EP	09 30 31.6
MAY 08	
H-10 04 16.4	
43.4N 126.6W	
h ABOUT 033KM	
EUR EP	10 06 27.0
BOZ EP	10 06 53.0
MAY 08	
KIP ET	10 12 06.0

Date and Station	Phase (GCT)
	h m s
MAY 08	
H-10 27 54.3	
24.0N 108.6W	
h ABOUT 033KM	
TUC EP	10 29 55.5
ALQ IP	10 30 34.0
BCN EP	10 31 02.2
E	31 09.5
EL	35 12.0
EUR IP	10 31 48.6
SLC IP	10 31 51.0
FGU I(P)	10 31 51.9
BOZ IP	10 32 44.9
HHM EP	10 33 12.4
CSC E(P)	10 33 27.0
MAY 08	
HHM E(P)	10 42 31.0
BOZ EP	10 42 55.0
MAY 08	
H-10 52 17.0	
00.3N 093.2W	
h ABOUT 033KM	
TUC E(P)	10 59 16.4
ALQ E(P)	10 59 23.0
FGU E(P)	11 00 12.4
EUR EP	11 00 26.2
MAY 08	
GUA IP	11 14 50.0
ES	17 50.0
MAY 08	
WAS E(P)	11 40 15.0
MAY 08	
H-12 25 54.4	
41.4N 142.4E	
h ABOUT 033KM	
COL EP	12 34 11.4
BOZ E(P)	12 37 06.0
EUR EP	12 37 20.7
MAY 08	
TUC EP	13 32 02.9
MAY 08	
BOZ IP	13 42 58.0
EUR IP	13 43 07.9
MAY 08	
COL EP	14 22 10.0

Date and Station	Phase (GCT)
	h m s
MAY 08	
BUT E(P)	15 49 32.0
E	49 45.2
MAY 08	
H-16 21 49.8	
56.7N 154.0W	
h ABOUT 025KM	
COL IP	16 23 56.2
EL	26 28.0
HHM IP D	16 27 16.9
ES	31 33.1
BUT E(P)	16 27 34.0
ES	32 10.2
BOZ EP	16 27 43.0
ES	32 28.0
EUR IP	16 28 00.5
ISCP	34 40.7
BCN IP D	16 28 29.5
I▸P	28 37.0
HON EP	16 28 50.0
ES	34 28.0
TUC IP D	16 29 11.0
E▸P	29 19.2
ES	35 10.0
ALQ IP	16 29 12.5
E▸P	29 21.0
ES	35 10.0
WAS EP	16 31 01.0
E▸P	31 09.0
CSC EP	16 31 08.0
SJP E(P)	16 33 29.6
E▸P	33 38.4
MAY 08	
COL EP	17 02 06.0
MAY 08	
BOZ EP	17 05 16.2
MAY 08	
ALQ IP	17 54 18.0
E	54 58.5
MAY 08	
HHM EP	17 58 07.9
ES	58 29.1
BOZ EP	17 58 15.0
EL	58 48.0
MAY 08	
COL EP	18 07 23.0
MAY 08	
BOZ IP	18 23 53.5
E	24 04.9
MAY 08	
GUA IP	18 27 54.9
ES	28 30.6

Date and Station	Phase	Phase (GCT) h m s
MAY 08		
EUR	IP	18 55 22.1
	EL	55 39.9
MAY 08		
TUC	E(P)	18 57 32.2
	EL	58 23.7
MAY 08		
BCN	EP	18 59 20.7
MAY 08		
TUC	E(P)	19 22 58.0
	EL	23 47.5
MAY 08		
BCN	EP	19 24 44.8
MAY 08		
BCN	IP	19 27 53.2
	IS	28 05.0
MAY 08		
COL	EP	20 01 21.0
MAY 08		
GUA	EP	20 18 50.0
	ES	23 20.0
MAY 08		
H-20 36 54.1		
24.2S 069.3W		
h ABOUT 078KM		
ALQ	IP	20 47 51.0
	I▸P	48 11.0
TUC	IP	20 47 51.7
	E▸P	48 12.3
BCN	EP	20 48 21.9
	E▸P	48 42.0
EUR	IP	20 48 40.2
	I▸P	49 01.2
BOZ	EP	20 48 53.0
	I▸P	49 14.3
	EsP	49 24.5
HHM	IP	20 49 09.5
	I▸P	49 31.0
MAY 08		
H-20 37 38.1		
54.2N 165.0W		
h ABOUT 033KM		
COL	EP	20 40 52.0
EUR	EP	20 44 36.9
MAY 08		
BOZ	IP	21 24 54.0
	ES	29 28.0
MAY 08		
H-21 34 40.6		
60.8N 143.6W		
h ABOUT 035KM		
COL	IP	21 35 48.6
SIT	IP	21 36 01.8
	EL	37 24.0
HHM	IP D	21 39 21.6
	IPCP	43 21.0
	I	45 43.0
BUT	EP	21 39 46.2
	ES	44 00.2
EUR	IP	21 40 24.3
	I	42 05.7
	ESCP	47 23.6
SLC	IP	21 40 29.0
BCN	EP	21 40 56.1
	I	41 33.5
	EPCP	43 52.5
	E▸PCP	43 58.0
	ESCP	47 34.5
ALQ	IP	21 41 33.0
	E	42 03.0
	E(SCP)	47 49.0
	EL	53 49.0
TUC	IP D	21 41 37.9
	E(S)	47 14.0
CSC	EP	21 43 16.0
WAS	EL	21 54 23.2
	E	58 32.0
PHI	E(L)	21 55 30.9
SJP	EP	21 45 38.0
MAY 08		
ALQ	IP	21 36 18.5
MAY 08		
SLC	IP	21 47 56.0
MAY 08		
BCN	E(P)	21 50 56.7
	EL	51 29.5
MAY 08		
H-21 54 41.8		
61.1N 143.0W		
h ABOUT 033KM		
COL	EP	21 55 48.0
MAY 08		
H-21 59 21.9		
71.1N 006.2W		
h ABOUT 025KM		
COL	EP	22 07 14.0
BOZ	EP	22 08 38.2
TUC	E(P)	22 10 03.4
MAY 08		
ALQ	E(P)	22 20 23.0
MAY 08		
ALQ	EP	22 23 19.0
	E	23 50.0
TUC	EP	22 24 04.5
MAY 08		
H-23 40 44.1		
52.2N 169.5W		
h ABOUT 020KM		
COL	EP	23 44 40.0
	ES	48 08.0
HON	E(P)	23 47 18.0
	IS	52 32.0
	EL	55 06.0
KIP	ES	23 52 30.0
	EL	55 06.0
HHM	EP	23 47 34.5
BOZ	EP	23 47 58.5
EUR	IP	23 48 07.7
SLC	EP	23 48 22.5
BCN	EP	23 48 31.8
TUC	EP	23 49 09.7
	E(S)	55 54.0
ALQ	EP	23 49 17.0
WAS	EP	23 51 07.2
CSC	EP	23 51 12.0
	E	51 26.0
SJP	E(P)	23 53 15.2
	IPCP	53 21.9
MAY 08		
H-23 53 21.1		
40.4N 142.2E		
h ABOUT 047KM		
COL	EP	00 01 42.0
BOZ	EP	00 04 41.0
	I▸P	04 53.0
EUR	EP	00 04 49.5
BCN	EP	00 05 07.0
	E▸P	05 20.4
MAY 9		
H-00 15 26.1		
52.0N 169.8W		
h ABOUT 033KM		
COL	E(P)	00 19 23.4
EUR	E(P)	00 22 50.1
TUC	EP	00 23 50.8
MAY 09		
BOZ	E(P)	00 15 40.0
MAY 09		
H-00 22 49.0		
40.4N 138.8E		
h ABOUT 033KM		
COL	IP	00 31 21.9
	I▸P	31 29.7
BOZ	EP	00 34 21.0
	E▸P	34 29.2
EUR	EP	00 34 30.9
	E▸P	34 39.2
BCN	EP	00 34 48.4
	E▸P	34 56.5
TUC	EP	00 35 14.3
	E▸P	35 22.8
ALQ	EP	00 35 19.0
	E▸P	35 26.5
MAY 09		
TUC	EP	00 36 39.5
MAY 09		
H-01 16 09.8		
59.7N 146.8W		
h ABOUT 033KM		
COL	EP	01 17 28.0
HHM	E(P)	01 20 58.0
MAY 09		
FGU	EP	01 35 48.7
	IS	36 28.2
MAY 09		
TUC	EP	01 53 02.2
MAY 09		
H-02 02 28.8		
52.2N 169.6W		
h ABOUT 025KM		
COL	EP	02 06 25.0
	ES	09 50.0
HHM	EP	02 09 21.0
BOZ	EP	02 09 44.1
EUR	IP	02 09 52.5
SLC	E(P)	02 10 07.0
BCN	EP	02 10 17.6
TUC	EP	02 10 55.2
	E(S)	17 49.0
ALQ	EP	02 11 00.0
	E	11 11.0
	ESCP	16 18.0
CSC	EP	02 12 57.0
	E(sP)	13 10.0
SJP	EP	02 14 57.2
	E▸P	14 06.0
	EsP	14 09.2
HON	ES	02 14 12.0
	EL	17 10.0
MAY 09		
ALQ	E(P)	02 19 38.5

Date and Station	Phase (GCT)
	h m s
TUC E(P)	02 20 19.2
MAY 09	
BOZ E(P)	02 34 59.0
E	35 34.0
MAY 09	
TUC EP	03 16 11.0
MAY 09	
SLC EP	05 04 14.0
EUR EP	05 05 11.7
MAY 09	
BOZ IP	05 51 49.1
MAY 09	
EUR IP	07 06 31.9
MAY 09	
H-07 22 18.7	
34.1N 116.7W	
h ABOUT 033KM	
BCN IP C	07 22 55.4
IL	23 25.0
TUC EP	07 23 38.0
EUR IP	07 23 39.4
MAY 09	
ALQ E(P)	07 24 55.0
E	26 22.0
MAY 09	
H-07 39 35.9	
44.5N 150.4E	
h ABOUT 033KM	
COL EP	07 47 03.0
BOZ EP	07 50 13.5
EUR EP	07 50 22.0
BCN E(P)	07 50 50.4
MAY 09	
TUC EP	09 07 14.5
MAY 09	
H-12 05 24.1	
44.5N 150.1E	
h ABOUT 033KM	
COL EP	12 12 50.0
BOZ E(P)	12 16 07.5
EUR EP	12 16 12.4
MAY 09	
H-12 13 04.9	
21.6S 174.6W	
h ABOUT 033KM	
TUC EP	12 25 21.0
EUR EP	12 25 23.4
ALQ EP	12 25 42.0
E	25 54.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	12 25 54.0
COL EP	12 25 56.5
MAY 09	
BOZ E(P)	12 36 00.0
ES	36 12.0
MAY 09	
GUA E(P)	12 50 18.6
MAY 09	
EUR EP	12 55 01.7
MAY 09	
H-14 05 27.1	
45.2N 150.0E	
h ABOUT 033KM	
COL EP	14 12 50.0
BOZ E(P)	14 16 01.2
EUR IP	14 16 11.6
MAY 09	
TUC EP	14 16 34.5
MAY 9	
H-14 18 39.0	
45.0N 111.1W	
h ABOUT 033KM	
BOZ IP	14 18 52.0
IS	19 02.0
BUT IP	14 19 04.2
IS	19 25.2
HHM EP	14 19 40.0
I	19 51.0
IL	20 42.0
MAY 09	
ALQ EP	14 47 04.2
MAY 09	
ALQ EP	14 56 31.5
MAY 09	
ALQ EP	15 03 17.0
MAY 09	
H-15 10 12.1	
40.7N 139.0E	
h ABOUT 025KM	
COL IP	15 18 44.2
HHM IP	15 21 25.9
BOZ IP	15 21 44.0
EUR IP	15 21 53.8
BCN EP	15 22 11.0
E▸P	22 17.5
TUC EP	15 22 36.5
ALQ IP	15 22 40.5
E▸P	22 48.0

Date and Station	Phase (GCT)
	h m s
MAY 09	
ALQ E(P)	16 17 41.0
MAY 09	
CSC E(P)	16 33 37.0
E	35 32.0
MAY 09	
EUR EP	17 05 18.3
MAY 09	
TUC EP	17 51 51.5
MAY 09	
H-18 16 17.5	
13.7S 166.6E	
h ABOUT 041KM	
HON E(S)	18 32 34.0
EL	38 55.0
COL EP	18 28 50.0
BCN EP	18 29 11.6
E	29 31.0
EUR IP	18 29 12.0
TUC E(P)	18 29 18.4
ALQ E(P)	18 29 36.0
MAY 09	
H-18 53 25.8	
59.9N 147.9W	
h ABOUT 033KM	
COL EP	18 54 41.0
MAY 09	
BOZ E(P)	18 56 28.0
MAY 09	
H-19 52 14.4	
50.7N 170.3W	
h ABOUT 033KM	
COL IP	19 56 27.3
BOZ EP	19 59 34.0
EUR EP	19 59 40.9
BCN EP	20 00 05.0
TUC EP	20 00 43.0
ALQ EP	20 00 51.0
MAY 09	
SJP IP	20 04 16.4
IS	04 32.5
MAY 09	
H-20 06 37.7	
05.8S 081.3W	
h ABOUT 104KM	
ALQ IP	20 15 01.0
E	15 11.0
TUC EP	20 15 01.8
BCN EP	20 15 40.5

Date and Station	Phase (GCT)
	h m s
FGU IP	20 15 48.0
EUR EP	20 16 02.8
BOZ EP	20 16 21.9
HHM EP	20 16 43.6
MAY 09	
ALQ E(P)	20 42 17.0
MAY 09	
H-21 06 12.2	
61.7N 152.0W	
h ABOUT 025KM	
COL IP	21 07 09.4
HHM EP	21 11 36.9
E(SCP)	18 56.0
BOZ EP	21 12 05.2
EUR IP	21 12 32.2
FGU EP	21 12 45.7
BCN EP	21 13 02.5
E▸P	13 10.0
EPCP	15 35.5
ALQ EP	21 13 40.0
E	13 56.0
EPCP	15 49.0
E(S)	19 39.0
TUC EP	21 13 43.2
MAY 09	
H-21 07 41.6	
09.2S 156.7E	
h ABOUT 026KM	
HON ES	21 24 49.0
EL	32 24.0
COL IP	21 20 11.3
EUR IP	21 20 58.3
BCN EP	21 21 02.8
E(sP)	21 16.5
EPP	24 45.8
MAY 09	
TUC EP	21 46 34.5
MAY 09	
SLC IP	21 52 53.2
IS	53 15.0
FGU IP	21 53 25.7
MAY 09	
EUR IP	21 54 42.6
EL	55 16.6
BCN E(P)	21 55 02.0
EL	55 52.5
MAY 09	
BUT IP	23 30 25.2

Date and Station	Phase	Phase (GCT) h m s
MAY 10		
H-02 00 27.5		
59.9N 146.5W		
h ABOUT 033KM		
COL	IP	02 01 42.0
HHM	EP	02 05 21.1
MAY 10		
BUT	E(P)	02 25 25.0
MAY 10		
COL	EP	04 12 51.0
MAY 10		
FGU	EP	04 47 44.9
	E(S)	48 09.9
MAY 10		
GUA	EP	05 00 51.2
MAY 10		
ALQ	EP	04 53 13.0
MAY 10		
ALQ	EP	05 10 08.5
MAY 10		
ALQ	EP	05 15 33.0
MAY 10		
H-05 39 42.6		
29.0N 141.5E		
h ABOUT 062KM		
GUA	EP	05 43 21.6
HON	E(S)	05 57 06.0
	EL	06 04 19.0
COL	EP	05 49 15.0
HHM	IP D	05 51 34.6
BUT	EP	05 51 45.2
EUR	IP	05 51 51.3
SLC	IP	05 52 03.0
BCN	EP	05 52 05.0
	E(PCP)	52 12.5
	EPP	55 15.5
	E	55 22.0
FGU	IP	05 52 09.9
TUC	IP D	05 52 28.8
ALQ	IP	05 52 35.0
	E	52 46.0
	EPP	56 09.0
MAY 10		
COL	EP	06 26 38.0
MAY 10		
HHM	E(P)	06 30 21.0
	E	36 06.1
BOZ	EP	06 30 51.0
MAY 10		
H-06 27 45.6		
04.6S 153.2E		
h ABOUT 077KM		
GUA	EP	06 32 13.7
COL	IP	06 39 55.2
EUR	EP	06 40 54.7
BCN	E(P)	06 41 02.8
	E▸P	41 17.0
MAY 10		
H-06 29 14.9		
52.2N 169.5W		
h ABOUT 035KM		
COL	EP	06 33 10.0
EUR	IP	06 36 36.9
BCN	EP	06 37 01.0
FGU	E(P)	06 37 01.3
TUC	EP	06 37 40.3
ALQ	EP	06 37 47.0
	E(▸P)	38 01.0
	EPP	39 27.0
MAY 10		
HHM	IP	07 14 41.6
	E	15 27.1
MAY 10		
TUC	EP	08 01 12.5
MAY 10		
H-08 12 34.5		
47.0N 142.1E		
h ABOUT 018KM		
COL	EP	08 20 15.0
BOZ	EP	08 23 30.0
EUR	EP	08 23 43.0
BCN	EP	08 24 03.0
ALQ	EP	08 24 33.0
MAY 10		
H-08 34 31.7		
7.7N 075.3W		
h ABOUT 060KM		
BHP	IP	08 35 39.0
	IS	36 33.0
ALQ	EP	08 41 58.0
TUC	EP	08 42 12.1
BCN	E(P)	08 42 50.5
BOZ	EP	08 43 14.0
	E▸P	43 33.5
MAY 10		
COL	EP	08 39 32.0
MAY 10		
COL	EP	09 36 02.0
MAY 10		
H-09 44 59.0		
10.5N 062.4W		
h ABOUT 045KM		
ALQ	IP	09 53 27.0
TUC	EP	09 53 47.4
EUR	EP	09 54 31.2
COL	EP	09 56 57.0
MAY 10		
FGU	IP	10 17 58.6
	IS	18 20.6
ALQ	E(P)	10 19 07.0
MAY 10		
H-10 45 52.3		
40.5N 139.0E		
h ABOUT 033KM		
COL	IP	10 54 24.0
	E(▸P)	54 30.5
HHM	IP	10 57 05.7
BOZ	EP	10 57 23.9
EUR	IP	10 57 33.8
BCN	EP	10 57 51.0
TUC	EP	10 58 16.6
ALQ	IP	10 58 21.0
MAY 10		
H-11 39 12.5		
52.3N 169.5W		
h ABOUT 040KM		
COL	EP	11 43 07.0
BOZ	E(P)	11 46 24.0
BCN	E(P)	11 47 09.3
	E	47 24.0
ALQ	E(P)	11 47 44.0
TUC	E(P)	11 47 47.2
MAY 10		
H-12 01 23.8		
60.7N 148.4W		
h ABOUT 033KM		
COL	EP	12 02 27.9
HHM	IP	12 06 28.0
MAY 10		
GUA	IP	12 18 57.1
	ES	19 03.3
MAY 10		
H-13 44 02.9		
51.4N 129.2W		
h ABOUT 033KM		
HHM	E(P)	13 46 40.0
	EL	49 42.6
BOZ	E(P)	13 47 10.0
	EL	51 09.0
EUR	EP	13 47 35.5
FGU	E(P)	13 47 53.0
BCN	E(P)	13 48 19.0
	E	48 47.0
TUC	EP	13 49 09.0
ALQ	IP	13 49 09.0
MAY 10		
GUA	IP	14 11 07.8
MAY 10		
ALQ	EP	14 24 06.0
MAY 10		
BCN	E(P)	14 29 49.6
MAY 10		
COL	EP	14 31 13.0
MAY 10		
H-14 46 15.3		
59.9N 147.1W		
h ABOUT 015KM		
COL	EP	14 47 32.0
BOZ	EP	14 51 42.9
EUR	IP	14 52 12.6
BCN	EP	14 52 40.2
	E▸P	52 44.0
ALQ	EP	14 53 18.0
	EPCP	55 44.0
TUC	EP	14 53 21.8
MAY 10		
COL	EP	15 00 04.8
MAY 10		
BCN	E(P)	15 30 24.9
MAY 10		
H-15 40 53.3		
60.1N 146.3W		
h ABOUT 015KM		
COL	IP	15 42 08.4
HHM	E(P)	15 45 49.1
BOZ	EP	15 46 18.9
EUR	IP	15 46 46.3
BCN	EP	15 47 16.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	15 47 55.0
E	50 20.0
TUC EP	15 47 58.0
MAY 10	
TUC E(P)	17 17 31.4
BCN E(P)	17 18 43.0
MAY 10	
EUR IP	18 46 19.7
EL	46 45.8
MAY 10	
ALQ E(P)	19 57 46.0
E	58 21.0
MAY 10	
COL EP	21 40 20.0
MAY 10	
ALQ E(P)	22 26 48.0
E	26 51.0
FGU E(P)	22 27 15.0
TUC EP	22 27 36.0
BCN EP	22 27 41.7
EL	28 54.0
EUR EP	22 28 11.6
MAY 10	
COL EP	22 49 10.0
MAY 10	
COL EP	23 16 39.0
MAY 11	
FGU E(P)	00 17 59.1
E	18 03.1
ES	18 36.8
BCN EP	00 18 10.5
EL	18 58.5
EUR EP	00 18 20.0
MAY 11	
GUA E(P)	01 04 06.9
MAY 11	
GUA IP	01 50 04.1
MAY 11	
H-02 17 01.5	
60.8N 142.2W	
h ABOUT 033KM	
COL EP	02 18 12.0
SIT EP	02 18 17.0
EL	19 50.0
HHM EP	02 21 37.0
BOZ EP	02 22 11.0
ESCP	29 28.0
EUR IP	02 22 41.6
FGU E(P)	02 22 53.5

Date and Station	Phase (GCT)
	h m s
RCD EP	02 22 59.0
BCN EP	02 23 14.5
ALQ EP	02 23 52.0
E(PCP)	26 23.0
TUC EP	02 23 53.3
MAY 11	
FGU IP	03 10 52.0
MAY 11	
H-03 31 38.7	
60.2N 147.2W	
h ABOUT 033KM	
COL IP	03 32 50.5
HHM EP	03 36 35.1
EUR EP	03 37 34.8
MAY 11	
BHP IP	04 32 03.0
IS	32 40.0
MAY 11	
BOZ IP	05 01 30.0
IL	01 40.0
MAY 11	
H-05 29 16.6	
24.6S 179.9E	
h ABOUT 515KM	
BCN EP	05 41 05.0
EUR IP	05 41 09.2
TUC IP	05 41 09.4
E▸P	43 03.7
ALQ I(P)	05 41 35.0
E▸P	43 23.0
MAY 11	
TUC E(P)	06 00 41.5
E	01 19.0
MAY 11	
BCN E(P)	06 02 33.0
EL	03 40.5
MAY 11	
H-06 07 41.5	
28.3N 057.4E	
h ABOUT 062KM	
COL IP	06 20 12.0
I▸P	20 25.3
MAY 11	
TUC E(P)	06 40 11.5
MAY 11	
TUC E(P)	06 54 07.0
E	54 10.8
BCN E(P)	06 54 45.0
E	55 15.0
EL	55 53.0
ALQ EP	06 55 37.0

Date and Station	Phase (GCT)
	h m s
MAY 11	
TUC E(P)	07 02 26.5
BCN E(P)	07 03 10.0
E	03 28.2
EL	04 24.0
ALQ EP	07 04 03.5
MAY 11	
GUA EP	07 10 14.0
MAY 11	
TUC E(P)	07 28 05.0
MAY 11	
TUC EP	09 02 26.6
MAY 11	
BCN E(P)	09 04 02.0
MAY 11	
BCN IP	09 36 45.0
MAY 11	
H-09 45 22.2	
58.4N 152.3W	
h ABOUT 015KM	
COL IP	09 47 04.0
MAY 11	
H-10 03 09.7	
45.5N 151.9E	
h ABOUT 033KM	
COL EP	10 10 24.6
EUR IP	10 13 46.1
BCN EP	10 14 04.8
E▸P	14 17.8
RCD E(P)	10 14 14.0
TUC EP	10 14 34.5
ALQ EP	10 14 40.0
MAY 11	
FGU E(P)	10 10 38.7
ES	11 05.4
MAY 11	
TUC EP	10 34 39.5
MAY 11	
BOZ EP	10 51 57.2
E	52 09.0
MAY 11	
ALQ IP	11 19 45.0
E	19 51.0
MAY 11	
COL EP	13 27 28.0
MAY 11	
TUC E(P)	13 31 28.0
MAY 11	
TUC EP	13 56 10.8

Date and Station	Phase (GCT)
	h m s
MAY 11	
GUA EP	14 06 12.0
MAY 11	
RCD E(P)	14 24 52.0
MAY 11	
H-14 39 04.4	
22.5S 175.8W	
h ABOUT 050KM	
BCN EP	14 51 21.5
TUC IP D	14 51 25.0
E▸P	51 36.5
EUR IP	14 51 27.7
E▸P	51 39.1
COL EP	14 51 58.5
ALQ IP	14 51 47.0
E(▸P)	52 01.0
E	52 40.0
HHM EP	14 51 57.1
MAY 11	
H-14 57 16.6	
04.3N 127.9E	
h ABOUT 060KM	
COL EP	15 09 40.0
EPP	12 50.0
MAY 11	
TUC E(P)	16 35 18.6
BCN E(P)	16 35 39.0
EL	36 50.0
EUR EP	16 36 22.2
MAY 11	
COL EP	16 43 27.0
MAY 11	
BOZ EP	17 00 46.0
IL	00 56.0
MAY 11	
GUA EP	17 20 07.9
MAY 11	
H-18 22 47.2	
56.6N 154.0W	
h ABOUT 033KM	
COL EP	18 24 54.0
MAY 11	
H-20 10 36.5	
60.3N 146.1W	
h ABOUT 033KM	
COL IP	20 11 47.5
EUR EP	20 16 26.9
MAY 11	
H-20 38 11.5	
17.1S 174.4W	
h ABOUT 104KM	

Date and Station	Phase	Phase (GCT)
		h m s
EUR	EP	20 49 57.8
	E▸P	50 31.8
COL	EP	20 50 31.0
	E▸P	51 06.2
MAY 11		
ALQ	E(P)	21 57 25.0
MAY 11		
SLC	EP	21 59 30.4
	ES	59 50.6
FGU	IP	22 00 00.8
MAY 11		
GCA	IP	22 10 12.5
MAY 11		
EUR	EP	23 24 35.2
MAY 12		
H-01 37 59.5		
26.2S 178.3E		
h ABOUT 607KM		
TUC	EP	01 49 53.5
	E▸P	52 04.6
EUR	IP	01 49 54.5
ALQ	IP	01 50 12.0
COL	EP	01 50 15.0
	E▸P	52 17.5
MAY 12		
GUA	EP	01 52 06.9
	E	52 27.5
MAY 12		
H-02 04 15.5		
56.9N 151.4W		
h ABOUT 025KM		
COL	EP	02 06 16.0
MAY 12		
GCA	EP	03 00 46.8
MAY 12		
RCD	EP	03 47 24.5
MAY 12		
BOZ	EP	05 39 02.0
MAY 12		
COL	EP	05 58 45.0
MAY 12		
H-06 42 49.4		
49.1N 177.2E		
h ABOUT 033KM		
COL	E(P)	06 48 05.1
EUR	IP	06 51 21.4
ALQ	EP	06 52 28.5
MAY 12		
H-06 45 13.3		
22.3S 176.3W		
h ABOUT 033KM		

Date and Station	Phase	Phase (GCT)
		h m s
TUC	EP	06 57 38.3
EUR	EP	06 57 39.5
COL	EP	06 58 10.0
MAY 12		
H-06 45 14.1		
40.2N 076.5W		
h ABOUT 033KM		
WAS	E(P)	06 45 37.0
	E	45 47.0
	ES	46 03.0
MAY 12		
FGU	E(P)	07 36 53.0
MAY 12		
BOZ	E(P)	07 53 28.0
	EL	54 04.0
EUR	EP	07 54 09.1
MAY 12		
H-08 27 04.3		
00.7S 077.2W		
h ABOUT 033KM		
ALQ	EP	08 35 17.0
TUC	E(P)	08 35 23.7
MAY 12		
TUC	E(P)	08 39 44.2
MAY 12		
COL	EP	08 59 04.0
MAY 12		
BOZ	E(P)	09 02 04.0
MAY 12		
COL	EP	09 03 06.0
MAY 12		
ALQ	EP	09 03 41.5
MAY 12		
H-10 02 27.1		
19.9S 173.9W		
h ABOUT 033KM		
BCN	EP	10 14 29.0
	E	15 50.8
TUC	EP	10 14 33.7
EUR	IP	10 14 36.4
GCA	EP	10 14 45.4
ALQ	IP	10 14 58.0
	E	19 34.0
FGU	IP	10 15 01.7
BOZ	EP	10 15 07.0
COL	EP	10 15 10.0
MAY 12		
TUC	E(P)	11 13 37.6
	EL	14 33.0

Date and Station	Phase	Phase (GCT)
		h m s
BCN	EP	11 14 17.5
	EL	15 14.5
ALQ	E(P)	11 14 35.0
GCA	E(P)	11 14 51.2
EUR	EP	11 15 06.1
	IS	17 29.1
MAY 12		
H-11 15 35.1		
29.0N 141.5E		
h ABOUT 026KM		
COL	EP	11 25 12.8
HHM	IP	11 27 31.6
BOZ	EP	11 27 46.9
EUR	EP	11 27 48.8
FGU	IP	11 28 07.7
RCD	EP	11 28 18.0
MAY 12		
ALQ	EP	11 24 26.0
MAY 12		
H-11 47 32.2		
60.1N 147.0W		
h ABOUT 015KM		
COL	IP	11 48 47.2
HHM	EP	11 52 30.5
BOZ	EP	11 52 59.0
	E(▸P)	53 06.0
EUR	IP	11 53 26.4
FGU	E(P)	11 53 41.5
RCD	EP	11 53 49.0
BCN	EP	11 53 58.0
	E▸P	54 03.0
ALQ	EP	11 54 36.0
	EPCP	57 06.0
TUC	EP	11 54 39.0
MAY 12		
COL	EP	12 09 17.0
MAY 12		
COL	IP	12 59 06.0
MAY 12		
TUC	EP	13 45 31.8
MAY 12		
TUC	E(P)	14 26 27.0
MAY 12		
COL	EP	14 51 17.0
MAY 12		
BOZ	E(P)	14 46 49.0
	E	47 05.0

Date and Station	Phase	Phase (GCT)
		h m s
MAY 12		
GCA	EP	15 51 27.3
MAY 12		
GCA	IP	16 36 38.5
MAY 12		
EUR	EP	16 46 38.0
MAY 12		
H-16 55 46.9		
59.5N 144.8W		
h ABOUT 033KM		
COL	IP	16 57 09.0
SIT	EP	16 57 32.0
HHM	IP	17 00 30.1
BUT	E(P)	17 00 50.0
BOZ	EP	17 01 01.8
EUR	IP	17 01 28.0
SLC	EP	17 01 35.0
FGU	EP	17 01 43.5
BCN	EP	17 01 59.5
ALQ	IP	17 02 39.5
	EPCP	05 19.0
	E(SCP)	08 56.0
TUC	EP	17 02 41.6
HON	ES	17 09 22.0
	EL	12 54.0
MAY 12		
COL	EP D	17 06 46.1
	I	06 51.3
MAY 12		
ALQ	EP	17 39 03.0
	E	39 43.0
MAY 12		
H-18 16 41.9		
56.6N 152.4W		
h ABOUT 010KM		
COL	IP	18 18 47.4
	E(S)	20 08.0
SIT	EP	18 19 01.0
HHM	EP	18 22 01.0
	I	22 05.1
	ES	26 27.1
UKI	E(P)	18 22 17.3
BUT	IP	18 22 22.8
BOZ	EP	18 22 28.5
	E▸P	22 32.0
	IL	29 47.0
EUR	IP	18 22 45.1
	EPCP	25 54.2

Date and Station	Phase (GCT)
	h m s
SLC EP	18 22 58.0
FGU EP	18 23 06.5
I▸P	23 09.8
BCN EP	18 23 16.0
EPCP	26 00.5
E(S)	28 53.0
EL	33 29.5
GCA E(P)	18 23 20.5
RCD EP	18 23 23.0
HON ES	18 29 18.0
KIP EP	18 23 40.0
TUC EP	18 23 57.5
ALQ IP	18 24 03.0
E(PCP)	26 19.0
CSC EP	18 25 57.0
ES	33 25.0
BHP EP	18 28 12.0
SJP E(P)	18 28 19.5
MAY 12	
H-18 17 07.7	
19.9S 173.9W	
h ABOUT 033KM	
HON E(P)	18 25 03.0
E(S)	31 04.0
ET	19 00 30.0
BCN EP	18 29 11.5
TUC EP	18 29 15.0
EUR EP	18 29 17.3
ALQ IP	18 29 39.0
FGU IP	18 29 42.5
MAY 12	
TUC E(P)	18 20 19.6
MAR 12	
ALQ IP	18 22 37.0
MAY 12	
H-18 28 57.5	
56.6N 152.2W	
h ABOUT 020KM	
COL EP	18 31 04.0
MAY 12	
COL IP	19 17 48.5
MAY 12	
HHM EP	20 15 26.1
MAY 12	
TUC EP	21 00 16.0
EL	00 40.7

Date and Station	Phase (GCT)
	h m s
MAY 12	
BCN EP	21 43 56.0
EL	44 33.0
MAY 12	
TUC EP	21 58 02.5
MAY 12	
BUT EP	22 30 19.3
MAY 12	
EUR IP	22 44 28.2
E(S)	44 49.8
MAY 12	
FGU EP	22 57 47.9
ES	58 12.6
MAY 12	
BCN IP	23 24 27.8
IS	24 32.5
MAY 12	
H-23 37 50.4	
59.4N 143.1W	
h ABOUT 020KM	
SIT E(P)	23 39 13.1
COL IP	23 39 19.1
HHM E(P)	23 42 30.1
BOZ EP	23 42 58.0
E	43 26.5
EUR IP	23 43 27.5
ALQ EP	23 44 37.5
E(PCP)	47 13.5
TUC EP	23 44 41.0
CSC EP	23 46 22.0
WAS EL	00 11 02.5
MAY 12	
H-23 42 23.0	
59.5N 143.1W	
h ABOUT 025KM	
COL EP	23 43 50.0
BOZ EP	23 47 30.0
E	47 58.0
EUR IP	23 48 00.7
ALQ EP	23 49 08.0
E(PCP)	51 46.3
TUC EP	23 49 12.3
MAY 12	
EUR IP	23 58 03.5
EL	58 24.9
MAY 13	
H-00 07 01.8	
14.8S 176.7W	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
HON ES	00 21 11.0
EL	23 33.0
BCN EP	00 18 56.0
TUC EP	00 19 03.0
EUR EP	00 19 13.6
COL EP	00 19 20.0
FGU E(P)	00 19 26.2
ALQ EP	00 19 26.5
E(▸P)	19 35.0
MAY 13	
H-00 07 42.1	
56.2N 152.7W	
h ABOUT 033KM	
COL EP	00 09 485
EUR EP	00 13 44.1
TUC E(P)	00 14 07.0
MAY 13	
COL EP	00 11 11.0
MAY 13	
CSC EP	00 26 36.0
MAY 13	
BUT IP	00 34 32.4
MAY 13	
COL IP	01 37 02.5
MAY 13	
ALQ EP	02 18 02.1
MAY 13	
ALQ EP	03 08 05.0
MAY 13	
H-03 19 43.2	
76.0N 008.2E	
h ABOUT 033KM	
COL EP	03 27 05.0
FGU EP	03 29 27.6
EUR EP	03 29 42.9
ALQ E(P)	03 30 07.0
TUC E(P)	03 30 25.7
MAY 13	
H-05 25 26.1	
32.8S 178.3W	
h ABOUT 033KM	
GUA EP	05 35 16.0
ES	43 12.0

Date and Station	Phase (GCT)
	h m s
HON E(P)	05 35 19.0
EPP	37 31.0
IS	43 13.0
ESCS	44 44.0
E	45 16.0
ESS	47 06.0
EL	49 03.0
KIP E(P)	05 35 23.0
IS	43 14.0
E	45 16.0
ESS	47 08.0
EL	49 04.0
BCN EP	05 38 26.5
TUC EP	05 38 27.3
E(S)	49 00.0
EPKKP	55 55.0
EUR IP	05 38 33.1
EPKKP	55 35.3
GCA E(P)	05 38 38.5
ALQ EP	05 38 47.0
E	38 52.0
E	40 18.0
E(PP)	42 27.0
FGU E(P)	05 38 54.0
HHM EPP	05 43 08.1
COL EP	05 39 08.0
EPP	43 14.5
BHP ESKS	05 49 55.0
WAS EPP	05 45 24.5
E(SP)	55 07.5
MAY 13	
H-07 43 00.4	
56.8N 153.8W	
h ABOUT 025KM	
COL EP	07 45 05.0
MAY 13	
H-08 11 00.3	
33.1S 178.0W	
h ABOUT 015KM	
TUC EP	08 24 05.5
EUR EP	08 24 10.6
MAY 13	
TUC EP	08 16 52.0
MAY 13	
H-10 08 53.5	
19.7N 142.7E	
h ABOUT 033KM	
COL IP	10 19 20.0
EUR IP	10 21 33.7
MAY 13	
H-11 06 16.4	
21.8S 179.6W	
h ABOUT 578KM	

Date and Station	Phase (GCT)
	h m s
BCN E(P)	11 17 48.9
E(pP)	20 01.0
EUR IP	11 17 53.2
EpP	20 01.1
TUC EP	11 17 53.7
EpP	20 02.8
COL EP	11 18 13.0
E(pP)	20 14.0
GCA EpP	11 20 12.0
ALQ IP	11 18 14.0
EpP	20 24.0
FGU E(P)	11 18 14.2
I	19 17.0
E(pP)	20 27.5
BUT E(pP)	11 20 30.3
BOZ EP	11 18 21.0
E(pP)	20 33.9
MAY 13	
H-12 18 34.8	
36.4N 121.2W	
h ABOUT 014KM	
EUR IP	12 19 55.2
IL	21 02.5
BCN E(P)	12 19 55.7
E(S)	20 52.7
EL	21 19.0
GCA E(P)	12 20 24.4
TUC E(P)	12 20 53.6
ALQ E(P)	12 21 37.0
MAY 13	
BOZ E(P)	12 38 17.0
EL	38 51.0
MAY 13	
EUR EP	12 46 01.0
MAY 13	
COL EP	12 55 40.0
MAY 13	
TUC E(P)	13 16 16.2
ALQ IP	13 17 02.0
E	19 53.0
MAY 13	
HHM IP	13 46 15.3
I(S)	46 19.1
BUT EP	13 46 44.4
EL	47 19.4
BOZ EP	13 46 56.8
ES	47 31.5
EL	47 39.0

Date and Station	Phase (GCT)
	h m s
MAY 13	
H-13 47 32.4	
60.6N 141.4W	
h ABOUT 033KM	
COL EP	13 48 50.0
MAY 13	
ALQ E(P)	13 59 01.0
TUC E(P)	13 59 07.0
MAY 13	
H-15 06 03.2	
60.0N 145.9W	
h ABOUT 033KM	
COL EP	15 07 18.0
HHM E(P)	15 10 53.0
BOZ EP	15 11 23.7
E(pP)	11 35.5
EUR EP	15 11 52.0
TUC EP	15 13 04.5
MAY 13	
COL IP	15 47 37.7
MAY 13	
H-16 42 48.3	
32.7S 178.6W	
h ABOUT 033KM	
TUC EP	16 55 50.6
BCN EP	16 55 50.7
EUR IP	16 55 57.2
ALQ EP	16 56 12.4
COL EP	16 56 34.0
MAY 13	
TUC EP	17 03 33.3
MAY 13	
ALQ EP	17 30 42.0
E	31 22.0
MAY 13	
TUC E(P)	18 17 32.0
MAY 13	
EUR EP	18 39 12.7
I	40 09.5
MAY 13	
BOZ EP	18 44 56.3
IL	45 06.0
MAY 13	
TUC E(P)	18 55 37.5
MAY 13	
RCD E(P)	19 00 21.0
MAY 13	
BOZ EP	19 29 42.9

Date and Station	Phase (GCT)
	h m s
MAY 13	
BOZ IP	19 59 33.9
IL	59 40.0
BUT IP	19 59 43.4
HHM EP	20 00 15.1
EL	01 01.1
MAY 13	
TUC EP	20 06 09.4
MAY 13	
COL EP	20 06 52.0
MAY 13	
RCD E(P)	20 25 47.0
MAY 13	
H-20 37 53.8	
32.4S 178.3W	
h ABOUT 070KM	
HON E(S)	20 55 38.0
EL	21 05 35.0
TUC EP	20 50 50.3
E(sP)	51 19.2
BCN EP	20 50 52.5
EUR IP	20 50 56.1
E	51 31.1
COL EP	20 51 34.0
MAY 13	
COL IP	20 58 23.3
MAY 13	
ALQ E(P)	21 29 04.0
E	29 39.5
MAY 13	
GCA EP	21 49 41.6
MAY 13	
ALQ E(P)	21 53 16.6
E	53 49.0
MAY 13	
SLC EP	22 01 52.2
ES	02 17.4
FGU EP	22 02 26.8
E(S)	02 57.8
MAY 13	
FGU IP	22 11 26.3
MAY 13	
EUR IP	22 24 38.8
MAY 13	
H-23 34 26.1	
40.5N 138.6E	
h ABOUT 033KM	
COL IP	23 42 58.0
EpP	43 06.1
BOZ EP	23 45 58.2
IpP	46 06.0

Date and Station	Phase (GCT)
	h m s
EUR IP	23 46 08.0
EpP	46 15.5
TUC EP	23 46 51.0
ALQ E(P)	23 46 56.0
MAY 14	
H-00 52 09.8	
33.3S 178.3W	
h ABOUT 033KM	
TUC EP	01 05 12.0
EUR EP	01 05 12.9
EpP	05 23.5
MAY 14	
TUC E(P)	00 53 48.5
MAY 14	
H-01 05 47.6	
32.9S 178.8W	
h ABOUT 309KM	
TUC EP	01 18 19.6
EUR IP	01 18 24.6
E(pP)	19 43.1
MAY 14	
H-01 52 47.3	
33.4S 071.2W	
h ABOUT 069KM	
TUC EP	02 04 24.8
ALQ EP	02 04 26.0
EUR EP	02 05 09.5
BOZ EP	02 05 24.5
MAY 14	
H-02 30 32.2	
4.5S 152.9E	
h ABOUT 032KM	
GUA EP	02 35 00.0
E	35 23.0
COL IP	02 42 45.3
IpP	42 52.6
EUR IP	02 43 46.6
BOZ EP	02 44 02.0
CSC EP'	02 49 25.0
MAY 14	
EUR EP	05 18 00.4
EL	18 27.6
MAY 14	
TUC E(P)	08 23 49.7
MAY 14	
BCN EP	08 25 29.6
MAY 14	
H-09 54 57.9	
18.7S 174.8W	
h ABOUT 047KM	

Date and Station	Phase (GCT)
	h m s
EUR E(P)	10 06 58.8
ALQ IP	10 07 25.0
COL EP	10 07 35.1
MAY 14	
BCN EP	11 24 20.6
EL	24 55.5
EUR EP	11 25 07.9
MAY 14	
H-11 30 13.9	
15.3S 070.6W	
h ABOUT 167KM	
ALQ F(P)	11 40 08.0
BOZ EP	11 41 16.0
MAY 14	
GUA IP	11 38 03.9
E(S)	38 14.0
MAY 14	
H-11 55 28.2	
62.8N 152.3W	
h ABOUT 015KM	
COL EP	11 56 16.6
BOZ EP	12 01 25.5
E	02 11.0
EL	07 11.0
EUR IP	12 01 55.5
IPCP	04 44.2
FGU IP	12 02 08.5
RCD EP	12 02 11.7
BCN EP	12 02 25.2
E▸P	02 29.4
EPCP	04 56.0
E▸PCP	04 59.5
ALQ IP	12 03 02.0
EPCP	05 09.0
E(S)	08 57.0
TUC EP	12 03 06.0
EPCP	05 10.0
MAY 14	
BCN E(P)	12 06 28.0
EUR IP	12 06 49.5
MAY 14	
FGU EP	12 34 55.0
GCA EP	12 35 05.6
ALQ E(P)	12 36 12.0
MAY 14	
H-13 23 29.0	
32.5S 178.2W	
h ABOUT 029KM	
TUC E(P)	13 36 30.6

Date and Station	Phase (GCT)
	h m s
EUR EP	13 36 36.3
MAY 14	
H-13 52 14.4	
65.3N 086.5W	
h ABOUT 033KM	
BOZ EP	13 57 26.1
I▸P	57 33.5
EL	14 02 25.0
COL IP	13 57 39.0
FGU EP	13 57 59.8
EUR EP	13 58 31.5
E(L)	14 08 40.8
ALQ IP	13 58 45.5
E(▸P)	58 51.6
TUC EP	13 59 15.2
MAY 14	
BUT E(P)	14 02 00.4
E	04 23.4
MAY 14	
H-14 19 05.1	
59.7N 144.4W	
h ABOUT 033KM	
SIT E(P)	14 20 18.6
COL IP	14 20 26.5
BOZ EP	14 24 18.0
EUR IP	14 24 46.4
ALQ IP	14 25 56.0
TUC EP	14 25 59.0
MAY 14	
H-14 40 00.1	
37.1N 116.0W	
h ABOUT 000KM	
BCN IP C	14 40 28.5
IS	40 50.0
EUR IP	14 40 40.7
GCA IP	14 40 59.3
SLC EP	14 41 19.6
I	41 36.6
IL	42 48.6
TUC E(P)	14 41 37.5
FGU E(P)	14 41 50.6
ALQ EP	14 42 00.0
E	42 30.0
BOZ E(P)	14 42 19.9
MAY 14	
H-14 44 06.4	
37.0N 116.1W	
h ABOUT 000KM	

Date and Station	Phase (GCT)
	h m s
BCN I(P)	14 44 27.5
IS	44 50.8
MAY 14	
KIP ET	15 08 10.0
MAY 14	
H-15 12 04.5	
59.8N 147.0W	
h ABOUT 033KM	
COL EP	15 13 21.1
BOZ EP	15 17 29.0
EUR EP	15 27 55.8
MAY 14	
GUA E(P)	15 18 43.1
MAY 14	
BCN IP	15 57 24.5
MAY 14	
BOZ IP	17 08 04.0
ES	08 12.0
MAY 14	
TUC EP	17 27 40.0
MAY 14	
CSC EP	17 39 32.0
E	40 28.0
MAY 14	
TUC E(P)	18 44 40.0
MAY 14	
BHP IP D	19 02 00.0
IS	02 24.0
MAY 14	
COL E(P)	19 12 44.0
MAY 14	
COL EP	19 21 52.0
MAY 14	
GCA E(P)	19 33 58.2
MAY 14	
H-20 01 01.0	
21.3S 179.3W	
h ABOUT 606KM	
GUA IP	20 08 57.9
BCN EP	20 12 27.5
TUC EP	20 12 32.9
E(▸P)	14 46.6
GCA EP	20 12 37.2
EUR EP	20 12 32.4
E(▸P)	14 44.2
COL IP	20 12 52.8
ALQ IP	20 12 53.0
E▸P	15 06.0
BOZ EP	20 12 59.9
E(▸P)	15 15.0

Date and Station	Phase (GCT)
	h m s
MAY 14	
CSC E(P)	20 02 28.0
MAY 14	
TUC EP	20 02 47.7
EUR EP	20 03 03.4
MAY 14	
CSC EP	20 10 16.0
MAY 14	
ALQ IP	20 22 05.4
E	22 11.0
MAY 14	
RCD EP	20 34 54.0
MAY 14	
ALQ E(P)	20 54 03.0
E	54 37.0
MAY 14	
EUR IP	22 22 53.2
MAY 14	
BOZ E(P)	22 26 00.0
MAY 14	
SLC EP	22 44 53.4
ES	45 13.9
EUR EP	22 45 39.5
MAY 14	
FGU E(P)	23 07 08.4
E(S)	07 31.2
MAY 14	
BCN IP	23 19 33.4
IS	19 45.0
MAY 14	
BCN IP	23 22 05.8
MAY 14	
BCN IP	23 22 36.2
MAY 14	
ALQ EP	23 27 57.0
MAY 14	
BCN IP	23 36 36.2
MAY 14	
COL EP	23 38 33.0
MAY 15	
COL EP	02 08 08.0
MAY 15	
H-02 56 15.2	
60.1N 147.0W	
h ABOUT 033KM	
COL EP	02 57 28.0
TUC E(P)	03 03 19.0
MAY 15	
H-04 02 39.3	
57.6N 152.2W	
h ABOUT 020KM	

Date and Station	Phase	Phase (GCT)
		h m s
COL	EP	04 04 31.0
MAY 15		
TUC	EP	04 30 51.0
MAY 15		
H-05 11 17.3		
61.4N 147.9W		
h ABOUT 033KM		
COL	IP	05 12 10.9
MAY 15		
EUR	IP	05 34 27.1
	E(S)	35 16.1
MAY 15		
EUR	IP	05 43 08.3
	EL	43 27.2
MAY 15		
H-05 46 32.7		
9.8N 085.5W		
h ABOUT 033KM		
ALQ	EP	05 52 54.0
TUC	E(P)	05 53 02.0
MAY 15		
TUC	EP	08 00 39.2
MAY 15		
RCD	EP	09 24 46.0
MAY 15		
H-10 17 45.9		
12.4N 089.0W		
h ABOUT 053KM		
CSC	EP	10 22 47.0
TUC	EP	10 23 35.8
	I	23 40.3
BCN	EP	10 24 20.0
	EPCP	27 02.0
FGU	EP	10 24 23.0
RCD	EP	10 24 24.5
EUR	EP	10 24 45.2
BOZ	EP	10 25 02.0
MAY 15		
ALQ	IP	10 26 47.5
TUC	EP	10 26 48.7
MAY 15		
COL	EP	10 29 00.0
MAY 15		
COL	EP	10 36 18.0
MAY 15		
H-10 50 20.6		
3.5S 149.1E		
h ABOUT 044KM		

Date and Station	Phase	Phase (GCT)
		h m s
KIP	ES	11 08 12.0
	E	12 00.0
	EL	15 32.0
COL	EP	11 02 39.0
EUR	EP	11 03 48.1
MAY 15		
COL	EP	10 53 22.0
MAY 15		
COL	IP	11 17 13.5
MAY 15		
TUC	EP	11 24 06.0
ALQ	IP	11 24 12.0
MAY 15		
H-12 10 25.4		
10.5N 085.7W		
h ABOUT 033KM		
BHP	EP	12 11 56.0
CSC	EP	12 15 40.0
ALQ	IP	12 16 41.0
	EPP	16 49.0
TUC	EP	12 16 48.6
	EPCP	19 42.5
GCA	E(P)	12 17 20.0
FGU	EP	12 17 29.7
RCD	E(P)	12 17 32.0
SLC	E(P)	12 17 39.0
EUR	IP	12 17 55.9
BOZ	EP	12 18 10.2
MAY 15		
COL	IP	12 16 20.0
MAY 15		
GUA	E(P)	12 17 43.5
	E	18 18.0
MAY 15		
BCN	EP	12 32 32.0
	E	32 45.0
MAY 15		
GUA	E(P)	12 48 03.1
	E	48 33.0
MAY 15		
TUC	E(P)	12 51 29.8
	E	51 33.4
BCN	E(P)	12 52 12.0
	EL	53 57.2
MAY 15		
H-12 59 28.3		
13.0N 143.9E		
h ABOUT 110KM		

Date and Station	Phase	Phase (GCT)
		h m s
GUA	EP	12 59 50.9
	E(S)	13 00 19.0
COL	EP	13 10 25.0
EUR	EP	13 12 15.4
MAY 15		
BCN	IP	13 17 48.5
	IS	17 50.5
MAY 15		
FGU	IP	14 53 02.3
MAY 15		
COL	EP	15 52 33.0
MAY 15		
H-16 15 00.1		
37.1N 116.0W		
h ABOUT 000KM		
BCN	IP C	16 15 27.5
EUR	IP	16 15 41.6
GCA	EP	16 15 59.0
	I	16 04.4
TUC	E(P)	16 16 37.0
ALQ	E(P)	16 16 58.5
BOZ	E(P)	16 17 15.0
MAY 15		
SLC	EP	16 16 37.5
MAY 15		
H-16 25 35.8		
37.1N 116.2W		
h ABOUT 000KM		
BCN	IP D	16 26 01.4
EUR	IP	16 26 15.6
GCA	IP	16 26 40.2
TUC	EP	16 27 19.2
MAY 15		
BOZ	EP	16 30 28.9
MAY 15		
COL	EP	17 25 27.0
MAY 15		
GCA	IP	17 26 40.1
MAY 15		
ALQ	EP	18 05 21.0
MAY 15		
H-19 40 34.7		
31.5N 113.7W		
h ABOUT 033KM		
TUC	EP	19 41 17.0
BCN	E(P)	19 41 38.0
GCA	IP	19 41 59.0
	I	42 06.8

Date and Station	Phase	Phase (GCT)
		h m s
ALQ	E(P)	19 42 14.0
EUR	IP	19 42 33.0
SLC	EP	19 42 51.4
FGU	E(P)	19 42 59.9
BOZ	E(P)	19 43 58.0
	E	48 18.0
WAS	EL	19 55 01.5
	E	16 56 47.5
MAY 15		
TUC	EP	19 40 35.2
GCA	E(P)	19 41 20.8
BCN	E(P)	19 41 24.2
MAY 15		
TUC	EP	19 54 07.0
MAY 15		
H-19 56 25.2		
31.6N 114.1W		
h ABOUT 033KM		
TUC	E(P)	19 57 04.0
BCN	E(P)	19 57 31.0
GCA	E(P)	19 57 50.0
	IL	59 31.1
ALQ	EP	19 58 13.0
EUR	IP	19 58 23.2
FGU	E(P)	19 58 54.9
MAY 15		
RCD	E(P)	20 01 31.0
MAY 15		
TUC	EP	20 24 08.0
MAY 15		
HON	E	20 55 38.0
	EL	21 05 35.0
MAY 15		
H-21 20 42.4		
31.2N 113.2W		
h ABOUT 033KM		
TUC	EP	21 21 19.8
	E	21 27.0
BCN	E(P)	21 21 45.0
	IL	23 24.0
GCA	E(P)	21 22 00.9
ALQ	E(P)	21 22 34.0
EUR	EP	21 22 47.1
	IL	25 29.6
MAY 15		
TUC	E(P)	21 27 46.0

Date and Station	Phase (GCT)
	h m s
BCN I(P)	21 27 52.9
IL	29 31.2
MAY 15	
FGU EP	22 19 18.7
ES	19 36.9
MAY 15	
FGU EP	22 20 58.4
MAY 15	
TUC EP	22 35 23.0
BCN EPG	22 36 15.8
EL	37 19.5
MAY 15	
WAS EP	23 05 42.0
MAY 15	
SLC E(P)	23 12 47.3
MAY 15	
BCN IP C	23 42 09.7
IS	42 21.5
EUR EP	23 43 01.6
TUC EP	23 43 10.5
MAY 15	
COL IP	23 55 01.3
MAY 16	
COL IP	01 07 07.9
MAY 16	
TUC EP	01 58 08.8
MAY 16	
H-01 58 36.4	
10.5S 161.9E	
h ABOUT 033KM	
COL IP	02 11 02.8
EUR IP	02 11 37.5
TUC EP	02 11 50.5
MAY 16	
H-02 40 09.7	
59.6N 145.0W	
h ABOUT 033KM	
COL EP	02 41 31.0
HHM EP	02 44 54.9
EUR E(P)	02 45 51.1
MAY 16	
TUC E(P)	04 14 45.5
EL	15 32.5
BCN E(P)	04 15 40.2
EL	16 32.6
MAY 16	
ALQ E(P)	04 16 39.0

Date and Station	Phase (GCT)
	h m s
MAY 16	
H-05 40 11.1	
7.1N 073.2W	
h ABOUT 126KM	
BHP IP D	05 41 47.0
IS	43 01.0
ALQ EP	05 47 47.0
TUC EP	05 48 00.5
EUR EP	05 48 54.4
BOZ EP	05 49 00.0
MAY 16	
H-06 00 58.1	
49.9N 078.3E	
h ABOUT 000KM	
COL IP	06 11 08.2
HHM IP	06 13 17.4
BOZ IP	06 13 33.9
FGU IP	06 13 57.5
SLC IP	06 13 58.3
EUR IP	06 14 01.9
GCA IP	06 14 16.1
BCN EP	06 14 19.4
ALQ IP	06 14 27.0
E	14 32.0
TUC EP	06 14 37.5
MAY 16	
TUC E(P)	06 55 34.5
MAY 16	
COL IP	07 06 56.2
MAY 16	
TUC E(P)	07 22 02.6
MAY 16	
FGU IP	08 18 06.5
MAY 16	
H-08 38 54.0	
36.3N 071.5E	
h ABOUT 122KM	
COL IP	08 50 20.2
BOZ EP	08 52 20.5
E▸P	52 54.0
EPP	56 16.0
TUC EP'	08 57 16.5
MAY 16	
TUC E(P)	09 08 09.8
MAY 16	
H-09 51 41.0	
54.0N 164.1W	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL IP	09 54 54.1
HON ES	10 03 39.0
EL	06 38.0
KIP ET	10 32 27.0
BOZ EP	09 58 25.0
EUR IP	09 58 34.8
EPCP	10 01 03.2
BCN EP	09 59 00.8
E▸P	59 11.5
TUC E(P)	09 59 39.0
EPCP	10 01 29.4
MAY 16	
MAY 16	
H-10 27 36.4	
59.3N 152.0W	
h ABOUT 035KM	
COL IP	10 29 04.8
EUR EP	10 33 44.4
MAY 16	
H-10 34 38.8	
49.0N 164.4W	
h ABOUT 033KM	
COL EP	10 38 51.0
EUR EP	10 41 34.0
MAY 16	
TUC E(P)	11 45 18.0
EL	46 03.5
MAY 16	
EUR IP	12 43 08.9
MAY 16	
TUC E(P)	13 02 06.0
MAY 16	
COL IP	14 07 34.2
MAY 16	
H-14 33 16.6	
13.6S 165.6E	
h ABOUT 062KM	
COL IP	14 45 50.0
EUR EP	14 46 10.2
E(▸P)	46 25.2
MAY 16	
H-14 44 54.3	
57.6N 151.0W	
h ABOUT 033KM	
COL IP	14 46 42.8
HHM IP	14 50 05.9
BUT IP	14 50 25.3
BOZ IP	14 50 32.9
I▸P	50 37.0

Date and Station	Phase (GCT)
	h m s
EUR IP	14 50 52.7
IPCP	53 59.9
I▸PCP	54 08.9
BCN IP C	14 51 22.5
IPCP	54 09.0
GCA IP	14 51 29.4
TUC EP C	14 52 04.6
EPCP	54 22.6
ALQ IP	14 52 05.0
E▸P	52 16.0
I(PCP)	54 24.0
E▸PCP	54 33.0
ESCP	58 09.0
MAY 16	
KIP IP	14 53 16.0
ET	15 29 26.0
MAY 16	
COL IP	15 11 17.0
MAY 16	
BHP EP	16 02 20.0
MAY 16	
H-16 07 46.2	
32.8S 178.3W	
h ABOUT 033KM	
KIP E(P)	16 17 40.0
ES	25 35.0
ESCS	27 36.0
ESS	29 28.0
EL	31 22.0
HON E(P)	16 17 42.0
IS	25 34.0
ESCS	27 36.0
ESS	29 26.0
E	30 21.0
EL	31 48.0
TUC EP	16 20 46.6
E(S)	31 21.0
BCN EP	16 20 47.0
EUR IP	16 20 52.2
ALQ E(P)	16 21 12.0
BOZ E(P)	16 21 24.0
MAY 16	
H-16 08 40.3	
44.5N 128.1W	
h ABOUT 033KM	
EUR EP	16 11 09.0
TUC E(P)	16 12 56.2
MAY 16	
TUC IP	16 24 50.5
IL	25 10.5
ALQ E(P)	16 25 21.5
E	26 02.5

Date and Station	Phase (GCT)
	h m s
GCA E(P)	16 25 42.7
I	26 36.6
MAY 16	
COL EP	17 05 21.0
MAY 16	
H-17 26 28.0	
42.1N 132.7E	
h ABOUT 427KM	
COL IP	17 34 31.7
MAY 16	
RCD E(P)	18 24 34.5
MAY 16	
HHM E(P)	18 58 01.0
EL	58 32.9
MAY 16	
HHM EP	19 16 15.1
MAY 16	
COL EP	20 56 46.0
MAY 16	
TUC E(P)	21 27 05.5
MAY 16	
BCN E(P)	21 29 03.5
EL	30 19.5
MAY 16	
HHM EP	21 54 34.9
MAY 16	
COL EP	22 00 16.0
MAY 16	
EUR IP	22 14 57.9
MAY 16	
RCD E(P)	23 01 33.0
MAY 16	
COL EP	23 09 02.0
MAY 16	
BUT EP	23 30 39.9
IL	31 57.9
MAY 16	
HHM EP	23 45 39.1
MAY 17	
H-00 50 17.9	
59.4N 142.7W	
h ABOUT 035KM	
SIT IP	00 51 23.0
COL IP	00 51 43.8
HHM EP	00 54 48.9
ES	58 24.9
BUT E(P)	00 55 13.7
ES	59 17.7
EL	01 01 53.7
BOZ EP	00 55 20.9
IS	59 40.0
IL	01 36.0

Date and Station	Phase (GCT)
	h m s
EUR IP	00 55 51.0
SLC EP	00 55 57.2
FGU EP	00 56 04.6
BCN EP	00 56 23.4
EL	01 05 43.0
GCA E(P)	00 56 25.0
ALQ IP	00 57 01.5
E(PCP)	59 38.0
TUC EP	00 57 05.0
E	57 09.0
ES	01 02 42.0
CHK E(P)	00 57 32.6
KIP EP	00 57 48.0
E(PP)	59 26.0
ES	01 03 52.0
EL	06 32.0
ET	39 25.0
HON EP	00 57 51.0
E(PP)	59 26.0
ES	01 03 53.0
EL	05 16.0
PHI E(P)	00 58 38.5
WAS E(P)	00 58 39.5
ES	01 05 23.0
CSC EP	00 58 48.0
E(S)	01 05 48.0
BHP EP	01 01 20.0
MAY 17	
TUC E(P)	01 42 47.5
MAY 17	
BOZ IP	02 43 59.5
IL	44 07.0
MAY 17	
H-04 41 43.9	
53.9N 159.7W	
h ABOUT 033KM	
COL IP	04 44 42.0
HHM IP	04 47 41.9
IPCP	50 49.9
BOZ IP	04 48 06.3
I▸P	48 17.2
IPCP	50 57.0
HON EP	04 48 14.0
E(PP)	49 08.0
ES	53 26.0
EL	55 00.0
KIP ES	04 53 22.0
EL	55 48.0
EUR IP	04 48 15.8
SLC EP	04 48 29.6

Date and Station	Phase (GCT)
	h m s
FGU IP	04 48 41.0
BCN EP	04 48 42.8
E	48 58.2
E	49 06.3
EPCP	51 05.0
GCA IP	04 48 52.4
RCD IP	04 48 58.0
E▸P	49 09.0
TUC IP D	04 49 23.9
E(PCP)	51 24.0
E(S)	55 20.0
ALQ IP	04 49 29.0
CSC EP	04 51 26.0
SJP IP D	04 53 38.0
MAY 17	
EUR IP	07 12 19.8
EL	12 42.9
MAY 17	
H-07 52 58.7	
07.9S 074.3W	
h ABOUT 152KM	
BOZ EP	08 03 10.0
MAY 17	
TUC EP	09 43 31.4
E	44 39.0
MAY 17	
TUC EP	11 08 41.6
MAY 17	
H-11 15 03.7	
19.5S 176.7W	
h ABOUT 266KM	
BCN EP	11 26 48.3
TUC EP	11 26 52.9
EUR EP	11 26 53.6
ALQ E(P)	11 27 15.0
COL IP	11 27 18.2
BOZ IP	11 27 22.9
MAY 17	
COL IP	11 56 49.1
I	57 42.5
MAY 17	
TUC E(P)	12 40 05.6
MAY 17	
COL EP	13 28 42.0
MAY 17	
GUA IP	14 16 10.0
MAY 17	
EUR EP	14 29 34.9

Date and Station	Phase (GCT)
	h m s
MAY 17	
COL IP	15 11 44.6
MAY 17	
ALQ EP	15 27 51.5
MAY 17	
COL IP	15 43 53.5
MAY 17	
GUA EP	16 51 11.5
MAY 17	
H-17 05 24.8	
33.2S 178.4W	
h ABOUT 033KM	
HON ES	17 23 20.0
EL	30 24.0
BCN EP	17 18 27.5
TUC EP	17 18 28.0
EUR EP	17 18 34.0
MAY 17	
TUC EP	17 10 28.2
MAY 17	
GUA IP	17 39 44.0
ES	41 16.0
MAY 17	
TUC EP	17 48 31.7
MAY 17	
ALQ EP	18 24 24.0
MAY 17	
H-19 10 56.2	
46.9N 152.6E	
h ABOUT 033KM	
COL IP	19 17 58.8
EUR EP	19 21 24.8
E▸P	21 35.2
BCN EP	19 21 44.5
MAY 17	
H-19 26 20.6	
35.2N 035.9W	
h ABOUT 033KM	
SJP IP C	19 32 44.0
WAS E(P)	19 32 59.5
I(S)	38 20.0
CSC IP	19 33 29.0
E(S)	39 14.0
CHK EP	19 33 59.8
BHP EP	19 34 55.0
RCD IP	19 35 24.0
BUT E(P)	19 35 59.5
E(sP)	38 13.5
ES	43 53.3

Date and Station	Phase	(GCT)
		h m s
FGU	IP	19 36 02.1
BOZ	EP	19 36 02.2
	IS	43 44.0
	EL	51 20.0
ALQ	IP	19 36 03.0
HHM	IP	19 36 06.8
	EPP	38 12.9
	ES	44 04.9
SLC	EP	19 36 12.2
	I	36 15.7
GCA	IP	19 36 25.5
TUC	E(P)	19 36 31.8
	I	36 33.3
	EPP	38 52.2
	E	40 28.0
EUR	IP	19 36 38.3
	EPP	38 52.7
	EPPP	40 18.4
BCN	EP	19 36 39.7
	I	36 44.0
	IPP	39 00.0
	IPPP	40 22.5
	EP'P'	20 06 08.6
SIT	E(P)	19 37 07.0
UKI	E(P)	19 37 13.0
COL	IP	19 37 13.1
	ES	46 16.0
KIP	E(SKS)	19 51 06.0
	EPS	53 30.0
	EPPS	54 14.0
	I	59 05.0
	EL	20 08 34.0
MAY 17		
ALQ	EP	19 29 04.0
MAY 17		
COL	IP	19 46 01.8
MAY 17		
SLC	EP	20 03 16.2
FGU	EP	20 03 31.7
	IS	04 00.2
BOZ	IP	20 03 58.0
MAY 17		
BCN	EP	21 44 23.5
	ES	44 54.5
	EL	45 00.0
MAY 17		
TUC	IP	21 54 22.0
	IL	54 39.0
MAY 17		
COL	IP	21 58 34.2
MAY 17		
FUR	EP	22 19 11.1
	E(S)	19 55.3

Date and Station	Phase	(GCT)
		h m s
MAY 17		
COL	IP	23 02 12.1
MAY 17		
TUC	EP	23 32 48.8
MAY 18		
H-01 04 30.5		
74.3N 097.4W		
h ABOUT 015KM		
COL	EP	01 08 55.0
HHM	E(P)	01 10 15.8
	E(S)	15 26.6
	I	18 04.8
BOZ	EP	01 10 34.0
	E(S)	15 55.0
EUR	EP	01 11 33.5
	I	22 53.0
WAS	EL	01 23 19.5
	I	23 31.5
CSC	EL	01 25 05.0
TUC	EP	01 12 30.8
MAY 18		
ALQ	EP	01 06 47.0
MAY 18		
RCD	EP	01 16 33.0
MAY 18		
ALQ	EP	01 17 22.5
MAY 18		
BUT	E(P)	01 17 55.3
	EL	19 13.2
MAY 18		
H-04 15 08.4		
12.0S 073.8W		
h ABOUT 091KM		
ALQ	EP	04 24 40.0
	EPCP	25 27.0
TUC	EP	04 24 43.0
EUR	EP	04 25 38.8
BOZ	EP	04 25 51.8
MAY 18		
BOZ	EP	04 18 21.2
MAY 18		
COL	EP	04 24 38.0
MAY 18		
TUC	EP	04 30 57.2
MAY 18		
H-05 12 32.2		
60.4N 146.6W		
h ABOUT 033KM		
COL	EP	05 13 40.0
HHM	EP	05 17 26.8

Date and Station	Phase	(GCT)
		h m s
BOZ	EP	05 17 57.2
TUC	EP	05 19 37.2
MAY 18		
TUC	EP	05 28 56.0
MAY 18		
COL	IP	07 30 19.0
MAY 18		
H-08 33 51.4		
52.2N 158.4E		
h ABOUT 033KM		
COL	EP	08 39 58.4
BOZ	EP	08 43 28.2
EUR	EP	08 43 40.6
MAY 18		
COL	IP	09 27 40.4
MAY 18		
BOZ	IP	09 38 14.8
MAY 18		
BOZ	E(P)	09 53 04.0
MAY 18		
FGU	E(P)	10 43 05.0
	E(S)	43 36.8
MAY 18		
TUC	EP	10 58 51.0
ALQ	IP	10 58 55.0
EUR	EP	10 59 35.2
MAY 18		
COL	IP	11 12 49.8
	I	13 37.0
MAY 18		
H-13 47 22.7		
59.6N 145.0W		
h ABOUT 020KM		
COL	IP	13 48 44.0
SIT	E(P)	13 48 56.0
HHM	EP	13 52 08.6
BOZ	EP	13 52 39.0
EUR	IP	13 53 07.8
FGU	E(P)	13 53 20.5
TUC	EP	13 54 20.2
KIP	EL	14 04 06.0
	ET	35 54.0
MAY 18		
COL	IP	13 57 30.4
MAY 18		
GUA	IP	14 16 09.9
	ES	16 26.0

Date and Station	Phase	(GCT)
		h m s
MAY 18		
H-14 12 10.1		
21.2S 174.5W		
h ABOUT 033KM		
KIP	EP	14 20 27.0
	EL	30 38.0
GUA	EP	14 21 24.1
	I(PP)	21 32.0
UKI	E(P)	14 24 01.0
BCN	EP	14 24 19.0
	IPP	24 30.7
TUC	EP	14 24 21.5
	E	25 10.7
	E(PP)	27 44.4
EUR	IP	14 24 25.2
	EPP	27 33.0
SLC	EP	14 24 41.3
FGU	EP	14 24 51.0
BOZ	EP	14 24 56.0
HHM	E(P)	14 24 59.0
COL	IP	14 24 59.1
	IPP	25 10.6
MAY 18		
H-16 01 17.8		
49.6S 123.1E		
h ABOUT 033KM		
HHM	EP'	16 20 45.8
BOZ	EP'	16 20 49.0
MAY 18		
ALQ	EP	16 54 12.8
MAY 18		
FGU	EP	17 17 32.7
MAY 18		
H-17 38 25.5		
18.2N 147.3E		
h ABOUT 019KM		
GUA	EP	17 39 44.0
	ES	40 41.2
COL	EP	17 48 54.0
HHM	EP	17 50 47.8
BOZ	E(P)	17 50 49.9
EUR	IP	17 50 54.2
BCN	EP	17 51 07.2
FGU	EP	17 51 17.2
TUC	EP	17 51 26.0

Date and Station	Phase (GCT)
	h m s
MAY 18	
H-18 14 48.7	
59.7N 145.0W	
h ABOUT 033KM	
COL IP	18 16 08.8
HHM EP	18 19 34.0
BOZ EP	18 20 04.0
I	20 07.0
EUR EP	18 20 31.4
TUC EP	18 21 45.7
MAY 18	
GCA EP	18 18 55.6
TUC E(P)	18 19 16.2
MAY 18	
COL IP	18 45 29.0
MAY 18	
FGU EP	19 01 47.0
IS	02 07.8
MAY 18	
EUR EP	19 33 35.7
MAY 18	
H-20 03 03.9	
36.5N 024.0E	
h ABOUT 033KM	
HHM EP	20 15 50.3
MAY 18	
TUC EP	20 35 13.5
EL	35 32.3
MAY 18	
GUA EP	20 37 44.5
ES	38 01.5
MAY 18	
H-21 12 46.2	
59.5N 142.7W	
h ABOUT 025KM	
SIT IP	21 13 56.0
COL IP	21 14 12.0
EL	16 36.0
HHM EP	21 17 19.5
EL	23 21.3
BOZ EP	21 17 51.0
EUR IP	21 18 20.8
SLC EP	21 18 26.7
FGU E(P)	21 18 35.2
BCN EP	21 18 53.0
GCA EP	21 18 56.1
PHI EL	21 36 36.0

Date and Station	Phase (GCT)
	h m s
WAS E(S)	21 27 29.5
EL	36 18.5
MAY 18	
BOZ EP	22 06 53.8
I	07 27.0
MAY 18	
FGU EP	22 06 54.0
MAY 18	
EUR EP	22 43 44.7
MAY 18	
COL EP	22 44 41.0
MAY 18	
BOZ EP	22 48 36.0
MAY 18	
TUC EP	22 54 36.2
MAY 19	
GCA IP	00 33 07.3
MAY 19	
TUC EP	00 34 25.7
BOZ EP	00 34 33.0
I	34 51.0
MAY 19	
TUC EP	00 44 44.0
MAY 19	
BOZ IP	00 56 30.9
IL	56 46.0
BUT EP	00 56 33.2
IL	56 49.2
HHM E(P)	00 57 19.0
EL	58 05.8
EUR EP	00 57 42.7
MAY 19	
BOZ EP	01 05 21.0
IL	05 37.0
BUT E(P)	01 05 23.0
IL	05 40.2
MAY 19	
COL EP	01 12 51.0
MAY 19	
H-01 44 33.6	
60.4N 147.5W	
h ABOUT 015KM	
COL IP	01 45 43.6
EL	47 24.0
HHM EP	01 49 31.5
BOZ IP	01 50 05.5
EUR IP	01 50 30.5
TUC EP	01 51 44.0
E	51 48.2

Date and Station	Phase (GCT)
	h m s
MAY 19	
BOZ EP	01 45 01.4
MAY 19	
TUC E(P)	01 56 06.8
MAY 19	
COL EP	02 02 07.0
ES	03 38.0
MAY 19	
H-02 23 45.2	
59.4N 145.2W	
h ABOUT 020KM	
COL IP	02 25 08.5
HHM EP	02 28 31.1
BOZ EP	02 29 03.4
EL	33 58.0
EUR IP	02 29 28.6
TUC EP	02 30 43.5
EPP	30 50.0
EPCP	33 12.0
MAY 19	
H-02 28 33.6	
59.2N 143.9W	
h ABOUT 033KM	
COL E(P)	02 30 01.0
BOZ E(P)	02 32 42.0
EUR IP	02 34 11.6
TUC EP	02 35 23.7
MAY 19	
H-04 18 05.9	
18.0N 091.8W	
h ABOUT 033KM	
TUC EP	04 23 02.0
BOZ EP	04 24 33.0
COL IP	04 28 08.8
MAY 19	
COL EP	05 17 00.0
MAY 19	
H-05 30 08.0	
19.5S 067.4W	
h ABOUT 293KM	
TUC EP	05 40 24.8
BOZ EP	05 41 26.0
E	41 53.0
MAY 19	
COL EP	05 30 25.0
MAY 19	
COL EP	05 47 10.0

Date and Station	Phase (GCT)
	h m s
MAY 19	
H-06 09 04.1	
77.7N 018.3E	
h ABOUT 033KM	
COL IP	06 16 15.5
HHM EP	06 18 02.3
BUT IP	06 18 18.7
BOZ IP	06 18 21.0
FGU EP	06 18 51.6
EUR IP	06 19 07.8
GCA E(P)	06 19 20.7
BCN EP	06 19 31.0
E(PCP)	20 05.8
TUC IP C	06 19 50.0
MAY 19	
COL EP	06 10 07.0
MAY 19	
BOZ EP	06 19 49.0
IL	20 05.0
MAY 19	
H-06 23 38.7	
45.0N 112.7W	
h ABOUT 033KM	
BOZ IP	06 23 55.2
IL	24 12.0
BUT IP	06 23 58.4
IS	24 14.2
HHM E(P)	06 24 43.0
ES	25 30.8
EUR EP	06 25 09.9
MAY 19	
BOZ EP	07 04 50.0
IL	05 16.0
MAY 19	
H-07 27 47.0	
05.8S 105.5E	
h ABOUT 037KM	
BOZ EP'	07 46 54.5
EUR EP'	07 46 56.6
CSC EP'	07 47 40.0
MAY 19	
COL EP	07 53 01.0
MAY 19	
TUC EP	08 13 14.5
MAY 19	
TUC E(P)	08 59 26.0
MAY 19	
BOZ IP	09 30 22.0
IL	30 38.0

Date and Station	Phase (GCT)
	h m s
MAY 19	
BOZ IP	10 35 38.5
IS	35 53.0
BUT EP	10 35 40.7
EL	35 58.2
MAY 19	
H-10 39 24.8	
45.5N 150.3E	
h ABOUT 033KM	
COL IP	10 46 44.4
HON ES	10 55 13.0
EL	58 42.0
HHM IP	10 49 37.7
BUT IP	10 49 52.2
BOZ IP	10 49 58.0
I	50 20.0
EUR IP	10 50 06.8
SLC IP	10 50 16.9
FGU EP	10 50 24.5
BCN IP C	10 50 26.0
E▸P	50 37.5
I▸P	50 49.0
RCD IP	10 50 33.5
E(▸P)	50 46.0
TUC IP C	10 50 55.0
E▸P	51 07.5
WAS EP	10 52 00.5
CSC EP	10 52 15.0
MAY 19	
BUT EP	10 50 40.2
IL	50 57.7
MAY 19	
COL IP	10 53 42.3
MAY 19	
BOZ IP	11 31 58.9
IL	32 15.0
BUT EP	11 32 01.7
IL	32 19.2
MAY 19	
BOZ IP	11 33 43.5
IS	34 00.0
BUT IP	11 33 46.7
IL	34 02.2
HHM E(P)	11 34 20.8
E	34 31.0
EL	35 25.5
FGU E(P)	11 34 45.9
EUR EP	11 34 50.7

Date and Station	Phase (GCT)
	h m s
MAY 19	
BOZ IP	12 25 47.9
IS	26 03.0
BUT IP	12 25 50.7
IL	26 07.7
HHM E(P)	12 26 36.0
EL	27 21.8
EUR EP	12 27 02.7
MAY 19	
BOZ EP	12 27 34.0
IL	27 50.0
BUT EP	12 27 37.4
IL	27 55.2
MAY 19	
H-13 19 20.7	
59.7N 152.3W	
h ABOUT 033KM	
COL IP	13 20 45.6
MAY 19	
BOZ IP	13 33 10.2
IL	33 25.0
BUT EP	13 33 13.2
IL	33 30.2
MAY 19	
BOZ EP	13 56 20.0
MAY 19	
BOZ IP	14 11 39.9
IL	11 57.0
BUT IP	14 11 43.2
IL	12 00.2
MAY 19	
H-14 42 40.7	
60.2N 146.3W	
h ABOUT 033KM	
COL IP	14 43 51.9
SIT E(P)	14 44 14.7
HHM EP	14 47 33.8
BUT EP	14 47 57.1
BOZ IP	14 48 04.0
EUR IP	14 48 30.9
BCN EP	14 49 02.5
E	49 22.6
TUC EP	14 49 43.7
MAY 19	
H-15 37 35.9	
57.0N 152.8W	
h ABOUT 025KM	
COL IP	15 39 35.1
IL	42 56.0
HHM EP	15 42 56.8

Date and Station	Phase (GCT)
	h m s
BUT EP	15 43 17.2
BOZ EP	15 43 25.0
EUR IP	15 43 42.0
EPCP	46 35.6
ESCP	50 25.2
FGU EP	15 44 02.9
BCN EP	15 44 11.0
E▸P	44 17.4
HON ES	15 50 23.0
EL	54 00.0
KIP EP	15 44 34.0
ET	16 21 29.0
TUC EP	15 44 52.8
E▸P	45 00.3
CSC EP	15 46 48.0
MAY 19	
COL EP	15 58 28.0
MAY 19	
BOZ IP	16 44 46.8
IL	45 02.0
BUT EP	16 44 56.2
IL	45 01.2
HHM E(P)	16 45 28.0
EL	46 20.8
MAY 19	
TUC IP	17 32 06.6
IL	32 26.5
MAY 19	
BOZ IP	18 33 22.0
IL	33 37.5
BUT E(P)	18 33 34.0
IL	33 41.2
EUR IP	18 33 47.8
MAY 19	
BCN EP	18 48 35.0
ES	48 01.5
MAY 19	
COL IP	19 10 07.4
MAY 19	
FGU EP	19 10 27.2
IS	10 47.1
MAY 19	
BCN IP	21 37 59.2
IS	38 11.3
MAY 19	
BCN E(P)	21 42 30.5
ES	43 00.5
MAY 19	
H-21 46 56.5	
44.9N 112.7W	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
BOZ IP	21 47 13.5
IS	47 26.0
BUT IP	21 47 16.3
IS	47 32.3
HHM EP	21 47 52.8
E	48 02.8
EL	48 47.5
EUR EP	21 48 26.0
MAY 19	
SLC EP	21 54 13.3
ES	54 29.8
MAY 19	
GCA EP	21 59 52.8
TUC E(P)	22 00 33.8
MAY 19	
BCN E(P)	22 14 09.0
MAY 19	
H-22 32 31.1	
45.2N 112.3W	
h ABOUT 033KM	
BOZ IP	22 32 43.9
BUT IP	22 32 47.3
IS	33 03.3
HHM E(P)	22 33 20.8
E	33 32.8
MAY 19	
TUC IP	22 58 33.6
EL	58 45.5
MAY 19	
H-23 03 41.8	
00.7S 080.2W	
h ABOUT 054KM	
BHP IP	23 06 02.0
IS	07 50.0
SJP IP	23 08 47.8
E	12 02.0
CSC EP	23 10 27.0
E(▸P)	10 37.0
E(S)	15 52.0
WAS IP	23 11 10.5
E▸P	11 23.5
PHI E(P)	23 11 11.0
TUC EP	23 11 41.6
E	11 48.3
E(S)	18 10.0
GCA IP	23 12 14.0
BCN EP	23 12 23.0
FGU IP	23 12 24.9
SLC IP	23 12 36.5
EUR IP	23 12 43.4

Date and Station	Phase	(GCT) h m s
BOZ	IP	23 12 58.0
	I	13 01.5
BUT	EP	23 13 06.3
	E	16 35.3
	ES	20 43.3
HHM	IP	23 13 21.8
	IS	21 17.8
HON	EP	23 15 46.0
	ES	25 32.0
	ESS	30 52.0
	ESSS	34 08.0
	EL	36 45.0
COL	IP	23 15 53.9
	ES	26 02.0
MAY 19		
BCN	EP	23 17 39.7
	E	17 58.0
MAY 19		
H-23 22 04.0		
48.3N 154.4E		
h ABOUT 050KM		
COL	IP	23 28 47.8
	E▸P	29 02.0
BOZ	IP	23 32 08.2
EUR	IP	23 32 19.0
FGU	E(P)	23 32 37.4
TUC	EP	23 33 10.0
MAY 19		
FGU	EP	23 25 39.2
	ES	26 00.4
MAY 19		
COL	IP	23 31 27.1
MAY 19		
COL	IP	23 43 17.2
MAY 20		
GUA	EP	01 09 51.5
	ES	10 43.0
MAY 20		
H-01 55 23.8		
61.3N 148.3W		
h ABOUT 033KM		
COL	IP	01 56 18.1
HHM	E(P)	02 00 29.0
EUR	EP	02 00 55.1
MAY 20		
H-02 21 26.4		
45.0N 112.8W		
h ABOUT 033KM		
BOZ	IP	02 21 42.9
	IS	21 58.0
BUT	IP	02 21 45.8
	IS	22 02.3
HHM	E(P)	02 22 20.0
	E	22 31.8
EUR	EP	02 22 55.6
MAY 20		
H-03 25 05.1		
00.9S 080.4W		
h ABOUT 033KM		
SJP	EP	03 30 16.0
	I	30 26.2
TUC	EP	03 33 10.0
	E▸P	33 17.1
GCA	EP	03 33 42.7
BCN	E(P)	03 33 54.5
FGU	E(P)	03 33 55.3
SLC	EP	03 34 09.6
EUR	IP	03 34 11.3
	I▸P	34 18.9
BOZ	IP	03 34 26.8
	I	34 29.5
	I▸P	34 34.5
BUT	EP	03 34 30.8
	E▸P	34 39.3
HHM	E(P)	03 34 44.3
COL	E(P)	03 37 19.0
MAY 20		
H-04 53 30.3		
31.4S 178.2W		
h ABOUT 033KM		
BCN	EP	05 06 27.0
	E	06 35.2
	E(▸P)	06 42.0
TUC	EP C	05 06 28.0
	E(▸P)	06 43.5
EUR	IP	05 06 32.3
	I(▸P)	06 47.8
GCA	EP	05 06 39.5
BOZ	IP	05 07 02.0
	E(▸P)	07 16.5
COL	EP	05 07 05.9
MAY 20		
H-05 32 13.7		
58.0N 149.6W		
h ABOUT 020KM		
COL	EP	05 33 57.0
	EL	35 36.0
HHM	EP	05 37 19.8
	E▸P	37 26.0
BUT	IP	05 37 40.9
BOZ	IP	05 37 47.9
EUR	IP	05 38 09.1
FGU	IP	05 38 28.4
BCN	EP	05 38 39.4
	E(▸P)	38 45.0
	E	38 49.5
ALQ	E(P)	05 39 21.0
	E	39 25.0
	EPCP	41 44.0
TUC	EP C	05 39 21.8
	E▸P	39 27.4
	E(PCP)	41 43.0
WAS	EP	05 41 01.5
CSC	EP	05 41 13.0
MAY 20		
SIT	E(P)	05 41 03.0
MAY 20		
TUC	EP C	05 47 46.5
MAY 20		
H-06 01 14.8		
02.7S 139.3E		
h ABOUT 061KM		
GUA	EP	06 05 11.5
KIP	IP	06 11 56.8
	ES	20 44.0
	E(SS)	24 32.0
	E	26 08.0
	EL	31 14.0
HON	IP	06 11 57.2
	ES	20 44.0
	E(SS)	24 34.0
	E	26 08.0
	EL	31 18.0
COL	IP	06 13 45.1
HHM	EP	06 15 07.8
	EPKKP	31 05.6
EUR	IP	06 15 09.6
	I▸P	15 27.1
	EPP	19 18.1
	EPKKP	31 06.0
	EPKKP	31 24.1
	EPKKP	31 44.1
BUT	EP	06 15 10.4
	EPKKP	31 28.0
	EPKKP	31 37.9
BOZ	EP	06 15 18.5
	EPKKP	30 32.0
BCN	EPP	06 19 33.8
	E▸PP	19 50.0
	E▸PP	20 07.0
	EPKKP	31 09.0
	EPKKP	31 20.5
	EPKKP	31 39.4
FGU	E(P)	06 15 29.7
	EPKKP	30 37.2
TUC	EP'	06 19 23.8
	E	19 34.8
	EPKKP	31 02.5
ALQ	EP'	06 19 44.0
	EPKKP	30 40.5
	EPKKP	30 50.0
	EPKKP	31 09.0
CSC	EP'	06 20 21.5
	ESKP	23 48.0
WAS	EP'	06 20 27.5
	EPP	22 31.5
SJP	EP'	06 21 00.7
MAY 20		
EUR	IP	06 10 14.4
MAY 20		
KIP	ET	06 18 10.0
MAY 20		
TUC	E(P)	06 43 29.0
MAY 20		
COL	EP	08 31 18.0
MAY 20		
H-09 28 38.5		
60.2N 147.4W		
h ABOUT 033KM		
COL	IP	09 29 49.9
	IL	31 12.0
HHM	EP	09 33 35.7
BUT	IP	09 33 57.9
BOZ	EP	09 34 05.6
EUR	EP	09 34 32.6
ALQ	E(P)	09 35 42.0
TUC	EP	09 35 45.0
	EPCP	38 06.0
MAY 20		
RCD	E(P)	11 31 45.0
MAY 20		
TUC	E(P)	11 37 50.0
MAY 20		
COL	EP	12 07 56.0
MAY 20		
TUC	EP	12 08 25.0
MAY 20		
BCN	IP	13 07 06.4
	IS	07 08.3
MAY 20		
COL	IP	13 09 16.4
MAY 20		
TUC	IP	16 12 38.2
	IL	12 58.0

Date and Station	Phase (GCT)
	h m s
MAY 20	
BUT E(P)	16 31 21.0
EL	31 39.3
MAY 20	
COL EP	17 08 15.0
MAY 20	
FGU EP	17 42 24.3
IS	42 52.8
MAY 20	
H-21 03 18.4	
45.9N 151.7E	
h ABOUT 033KM	
COL EP	21 10 30.0
EUR EP	21 13 53.0
MAY 20	
CSC EP	21 33 33.0
MAY 20	
FGU EP	22 06 46.1
I	06 47.9
EUR EP	22 07 04.1
MAY 20	
RCD E(P)	22 28 51.0
MAY 20	
FGU EP	22 39 47.1
E(S)	40 20.7
MAY 20	
ALQ E(P)	23 02 11.0
TUC E(P)	23 02 29.0
MAY 20	
TUC EP	23 19 09.0
MAY 20	
BCN EP	23 22 10.5
MAY 20	
H-23 58 01.3	
46.1N 143.5E	
h ABOUT 278KM	
COL EP	00 05 16.0
EUR IP	00 08 39.7
BCN EP	00 08 58.2
TUC EP	00 09 26.0
ALQ E(P)	00 09 29.0
MAY 21	
BOZ IP	00 05 25.5
BUT IP	00 05 37.4
MAY 21	
EUR IP	00 41 11.3
EL	41 28.0

Date and Station	Phase (GCT)
	h m s
MAY 21	
H-01 11 23.4	
60.4N 145.9W	
h ABOUT 015KM	
COL IP	01 12 34.7
IL	14 00.0
HHM EP	01 16 16.7
BUT EP	01 16 40.4
BOZ EP	01 16 48.0
EUR IP	01 17 15.4
EPCP	20 31.3
FGU EP	01 17 30.0
BCN EP	01 17 47.5
GCA EP	01 17 51.1
ALQ E(P)	01 18 26.0
EPCP	20 50.0
ESCP	24 38.0
TUC EP	01 18 29.0
MAY 21	
COL EP	02 10 25.0
MAY 21	
COL IP	02 41 59.7
MAY 21	
BUT IP	03 23 41.4
ES	23 58.4
MAY 21	
BOZ IP	03 30 09.0
IL	30 23.0
MAY 21	
BOZ IP	04 16 56.0
IL	17 09.0
BUT EP	04 17 03.4
EL	17 21.4
MAY 21	
BOZ IP	05 23 39.0
IL	23 54.0
MAY 21	
TUC EP	05 55 21.8
MAY 21	
COL IP	07 00 58.6
BOZ EP	07 04 11.0
E	04 25.0
EUR EP	07 04 21.0
BCN EP	07 04 40.0
E	04 53.9
TUC EP	07 05 23.0
ALQ E(P)	07 05 29.0
MAY 21	
BUT EP	09 17 42.4

Date and Station	Phase (GCT)
	h m s
BOZ EP	09 17 47.2
I	17 50.0
E(S)	18 14.0
EUR EP	09 18 25.4
MAY 21	
COL IP	09 52 07.4
MAY 21	
BOZ EP	10 30 21.8
IL	30 38.0
MAY 21	
H-11 41 03.1	
43.1N 141.8E	
h ABOUT 091KM	
COL EP	11 49 04.0
HHM EP	11 51 49.7
BOZ IP	11 52 08.0
EUR IP	11 52 18.0
BCN IP C	11 52 36.3
E	53 07.5
TUC EP	11 53 03.0
ALQ EP	11 53 07.0
MAY 21	
COL IP	12 53 22.0
MAY 21	
H-13 31 50.9	
60.2N 147.2W	
h ABOUT 033KM	
COL IP	13 32 59.9
HHM EP	13 36 49.8
BOZ IP	13 37 18.5
EUR EP	13 37 44.1
ALQ EP	13 38 54.0
EPCP	41 14.0
TUC EP	13 38 56.5
MAY 21	
GCA EP	15 12 54.8
MAY 21	
H-15 36 01.5	
59.0N 153.5W	
h ABOUT 015KM	
COL IP	15 37 38.2
E(S)	39 00.0
SIT IP	15 38 25.0
HHM IP	15 41 29.6
I(SCP)	48 38.6
BUT EP	15 41 50.6
ES	46 37.6

Date and Station	Phase (GCT)
	h m s
BOZ IP	15 41 57.0
I	42 08.0
ES	47 00.0
SLC EP	15 42 27.2
EUR IP	15 42 18.9
ISCP	48 56.0
FGU IP	15 42 36.5
ISCP	49 03.3
RCD E(P)	15 42 46.0
BCN IP	15 42 48.5
ESCP	49 08.5
KIP IP	15 43 18.3
EL	51 24.0
TUC IP D	15 43 29.8
E>P	43 35.0
ALQ IP	15 43 30.0
E	43 53.0
EPCP	45 37.0
ESCP	59 26.0
PHI ES	15 52 24.6
CSC EP	15 45 18.0
MAY 21	
H-16 26 38.4	
57.0N 152.9W	
h ABOUT 033KM	
COL EP	16 28 38.0
MAY 21	
TUC EP	16 50 51.6
MAY 21	
EUR IP	17 43 06.4
EL	43 16.9
MAY 21	
FGU IP	18 29 29.6
IS	29 48.9
MAY 21	
COL IP	18 39 47.8
MAY 21	
FGU IP	20 13 30.7
IS	13 57.2
MAY 21	
SLC EP	20 14 29.6
MAY 21	
ALQ E(P)	20 59 09.0
E	59 45.0
MAY 21	
EUR EP	21 13 07.8
MAY 21	
BCN EP	21 39 15.5
ES	39 46.0
MAY 21	
ALQ EP	21 53 15.0

Date and Station	Phase	(GCT)
		h m s
MAY 21		
SLC	EP	21 57 55.7
FGU	EP	21 58 14.1
	ES	58 29.4
MAY 21		
GCA	EP	22 08 54.2
MAY 21		
FGU	IP	22 16 39.1
	IS	16 55.5
MAY 21		
EUR	IP	22 19 38.0
MAY 21		
H-22 30 11.0		
59.3N 145.3W		
h ABOUT 038KM		
COL	IP	22 31 35.3
HHM	EP	22 34 57.5
EUR	EP	22 35 53.0
MAY 21		
EUR	IP	22 31 51.1
MAY 21		
H-22 32 33.9		
17.5N 083.9W		
h ABOUT 033KM		
BHP	EP	22 34 50.0
CSC	EP	22 36 22.0
	ES	40 48.0
PHI	ES	22 42 00.0
ALQ	IP	22 38 12.0
	E(pP)	38 17.5
TUC	EP	22 38 27.7
SLC	EP	22 39 12.7
EUR	IP	22 39 29.0
BOZ	EP	22 39 36.5
BUT	E(P)	22 39 41.0
HHM	EP	22 40 02.8
COL	EP	22 43 02.0
MAY 21		
H-23 10 49.0		
44.5N 149.6E		
h ABOUT 045KM		
COL	EP	23 18 16.0
HHM	EP	23 21 06.8
EUR	IP	23 21 35.1
BCN	EP	23 21 54.5
TUC	EP	23 22 23.2

Date and Station	Phase	(GCT)
		h m s
MAY 22		
H-00 26 44.8		
34.7S 179.6W		
h ABOUT 058KM		
EUR	EP	00 39 59.5
MAY 22		
BHP	IP	00 38 24.0
	IS	39 43.5
MAY 22		
TUC	E(P)	02 27 45.6
MAY 22		
COL	EP	02 28 24.0
MAY 22		
H-02 38 23.5		
33.2N 116.7W		
h ABOUT 033KM		
BCN	IP	02 39 12.0
	IS	39 46.0
	IL	39 59.5
TUC	E(P)	02 39 39.7
	E	40 05.8
EUR	IP	02 39 56.7
MAY 22		
BCN	IP	04 12 51.2
MAY 22		
BOZ	EP	04 57 25.0
	ES	57 55.0
EUR	EP	04 58 01.3
MAY 22		
BCN	EP	05 07 25.3
	E	07 33.6
	EL	08 09.0
EUR	EP	05 08 05.8
TUC	E(P)	05 08 28.5
MAY 22		
H-05 38 40.4		
27.7N 016.0W		
h ABOUT 034KM		
ALQ	E(P)	05 50 22.0
EUR	E(P)	05 50 47.1
MAY 22		
HHM	E(P)	06 56 29.0
MAY 22		
TUC	EP	07 13 19.6
MAY 22		
BOZ	EP	08 00 44.0
	IL	00 59.5
MAY 22		
BCN	E(P)	08 23 03.6
	E	23 09.0
	EL	23 40.8
TUC	E(P)	08 23 40.0

Date and Station	Phase	(GCT)
		h m s
EUR	EP	08 23 50.6
	E	25 25.2
MAY 22		
FGU	EP	09 34 32.5
	ES	35 26.1
MAY 22		
H-12 11 49.3		
41.9N 112.1W		
h ABOUT 033KM		
FGU	EP	12 12 25.7
	I	12 26.8
	IS	12 54.0
BOZ	EP	12 12 46.0
	I	12 50.0
EUR	IP	12 12 46.9
MAY 22		
ALQ	E(P)	13 02 40.0
	E	05 27.0
	E	07 07.5
EUR	EP	13 03 09.9
MAY 22		
FGU	EP	13 15 51.7
MAY 22		
H-14 07 12.1		
8.3N 126.3E		
h ABOUT 121KM		
COL	IP	14 19 13.3
MAY 22		
BOZ	EP	15 07 46.2
	IL	08 02.0
BUT	IP	15 07 52.5
	IL	08 06.5
MAY 22		
BOZ	IP	16 05 05.0
MAY 22		
EUR	IP	16 20 10.4
ALQ	IP	16 20 26.0
MAY 22		
EUR	EP	16 23 08.5
FGU	IP	16 23 18.0
BCN	EP	16 23 19.0
TUC	EP	16 23 35.0
ALQ	IP	16 23 38.0
MAY 22		
COL	IP	16 53 06.1
MAY 22		
BOZ	IP	17 17 14.0
	IS	17 22.5
MAY 22		
COL	EP	17 17 56.0

Date and Station	Phase	(GCT)
		h m s
MAY 22		
TUC	E(P)	17 32 09.0
MAY 22		
BOZ	IP	18 43 22.0
	IS	43 28.5
MAY 22		
FGU	EP	19 59 22.9
	E(S)	59 58.9
MAY 22		
BOZ	IP	20 11 52.9
	IS	12 06.0
HHM	E(P)	20 12 41.0
	E	12 47.6
MAY 22		
HHM	IP	20 20 20.1
	IS	20 25.6
MAY 22		
GCA	IP	20 56 50.3
EUR	IP	20 57 24.7
MAY 22		
TUC	E(P)	21 02 37.0
MAY 22		
EUR	EP	21 49 13.8
MAY 22		
GCA	E(P)	22 00 17.7
	I	01 01.6
ALQ	E(P)	22 00 20.0
	E	00 55.0
MAY 22		
FGU	EP	22 12 58.9
	IS	13 18.9
MAY 22		
BOZ	IP	22 16 28.0
	IL	16 44.0
MAY 22		
BCN	IP	23 03 40.4
	IS	03 53.0
MAY 23		
H-00 11 56.9		
15.0N 056.0E		
h ABOUT 033KM		
EUR	EP'	00 30 53.6
TUC	EP'	00 31 07.0
MAY 23		
H-00 17 07.5		
14.6N 056.3E		
h ABOUT 033KM		
FGU	IP'	00 36 04.3
EUR	IP'	00 36 08.2
TUC	EP'	00 36 20.8

Date and Station	Phase (GCT)
	h m s
MAY 23	
HON IP	01 33 12.9
ES	33 40.0
KIP IP	01 33 13.3
ES	33 41.0
MAY 23	
TUC E(P)	01 53 26.0
MAY 23	
H-01 57 32.2	
28.1N 110.6W	
h ABOUT 033KM	
TUC EP	01 58 35.5
ALQ EP	01 59 29.0
EUR IP	02 00 28.0
BOZ EP	02 01 35.0
MAY 23	
TUC E(P)	02 16 40.5
MAY 23	
COL IP	02 43 15.5
MAY 23	
COL EP	03 45 41.0
MAY 23	
COL IP	03 55 13.3
MAY 23	
TUC E(P)	04 22 07.4
MAY 23	
H-06 29 24.4	
57.3N 150.7W	
h ABOUT 020KM	
COL IP	06 31 18.3
HHM IP	06 34 35.6
BOZ EP	06 35 02.0
I	35 05.7
EUR IP	06 35 21.5
FGU IP	06 35 42.7
TUC EP	06 36 34.0
MAY 23	
COL EP	06 54 37.0
MAY 23	
FGU EP	06 56 22.2
IS	56 53.0
MAY 23	
ALQ E(P)	07 00 14.0
TUC E(P)	07 00 38.0
MAY 23	
BOZ E(P)	07 00 43.0
EUR EP	07 01 06.7

Date and Station	Phase (GCT)
	h m s
MAY 23	
SIT E(P)	07 02 11.5
MAY 23	
BOZ EP	07 06 13.0
MAY 23	
TUC EP	07 42 10.3
MAY 23	
COL EP	08 08 07.0
MAY 23	
BOZ IP	10 31 37.0
MAY 23	
H-11 22 33.3	
28.6N 139.4E	
h ABOUT 409KM	
GUA IP	11 25 56.0
E(S)	28 42.5
KIP IP	11 31 37.2
COL IP	11 31 40.4
HHM IP	11 33 56.5
I▸P	35 30.5
BUT IP	11 34 07.3
I▸P	35 36.9
BOZ IP	11 34 10.8
E▸P	35 42.0
EUR IP	11 34 13.3
I▸P	35 50.0
EPP	37 24.9
E(SKS)	43 53.0
SLC IP	11 34 23.3
BCN IP C	11 34 26.5
E▸P	36 03.0
EPP	37 49.0
FGU IP	11 34 30.9
GCA EP	11 34 35.7
RCD IP	11 34 40.5
TUC IP C	11 34 49.0
E▸P	36 23.4
EPP	37 26.0
ALQ EP	11 34 56.0
MAY 23	
H-11 25 34.2	
36.5N 090.0W	
h ABOUT 018KM	
EUR E(P)	11 30 18.1
MAY 23	
CSC EP	11 29 32.5
MAY 23	
RCD E(P)	11 31 50.0
ALQ IP	11 32 37.0

Date and Station	Phase (GCT)
	h m s
FGU E(P)	11 32 37.6
MAY 23	
BOZ IP	12 48 15.0
MAY 23	
COL IP	12 51 18.3
MAY 23	
BOZ EP	14 17 14.0
EL	17 29.0
MAY 23	
TUC EP	14 51 23.4
EL	51 43.5
MAY 23	
ALQ E(P)	15 07 30.0
MAY 23	
GUA EP	15 44 50.6
E	45 10.0
MAY 23	
BOZ EP	16 45 55.0
IL	46 09.0
MAY 23	
TUC EP	17 03 12.0
MAY 23	
H-20 40 31.8	
45.4N 149.0E	
h ABOUT 103KM	
COL E(P)	20 48 12.8
EUR IP	20 51 11.4
I▸P	51 37.4
MAY 23	
TUC E(P)	20 52 24.0
MAY 23	
H-21 31 03.4	
18.4S 069.2W	
h ABOUT 128KM	
ALQ IP	21 41 24.0
E	41 29.0
TUC EP	21 41 27.3
GCA IP	21 41 53.3
EPP	44 26.2
BCN EP	21 42 00.0
E▸P	42 32.4
FGU EP	21 42 04.0
EUR IP	21 42 17.7
E▸P	42 49.8
BOZ IP	21 42 30.0
I▸P	43 02.5
HHM EP	21 42 47.3
E▸P	43 20.4
MAY 23	
COL EP	21 47 24.0

Date and Station	Phase (GCT)
	h m s
MAY 23	
H-21 44 59.1	
39.4N 106.2W	
h ABOUT 000KM	
FGU EP	21 45 50.7
ALQ EP	21 46 17.0
SLC E(P)	21 46 25.4
GCA I(P)	21 46 31.0
EUR EP	21 46 48.9
BOZ EP	21 46 52.0
E	47 18.7
TUC E(P)	21 47 27.7
HHM E(P)	21 47 31.0
E	47 35.9
MAY 23	
SLC EP	23 05 35.8
MAY 24	
H-00 00 50.2	
30.1N 082.1E	
h ABOUT 033KM	
COL IP	00 12 45.6
MAY 24	
H-00 40 21.9	
60.2N 148.0W	
h ABOUT 015KM	
COL EP	00 41 35.0
HHM EP	00 45 26.0
BUT IP	00 45 48.4
EUR IP	00 46 21.2
GCA EP	00 46 57.4
ALQ IP	00 47 31.0
EPCP	49 52.0
TUC EP	00 47 34.2
E(▸P)	47 39.5
EPCP	49 52.8
MAY 24	
RCD EP	01 14 04.0
MAY 24	
COL EP	02 18 59.0
MAY 24	
TUC EP	02 57 45.0
MAY 24	
BOZ EP	03 53 35.5
I	53 51.2
MAY 24	
H-04 13 05.3	
22.6S 174.1W	
h ABOUT 033KM	
KIP EP	04 21 31.0

Date and Station	Phase (GCT)
	h m s
BCN EP D	04 25 17.7
EPP	28 24.0
TUC IP D	04 25 21.3
E	26 05.0
EUR IP	04 25 24.0
GCA IP	04 25 33.2
SLC IP	04 25 41.6
ALQ IP	04 25 44.0
E(pP)	25 56.0
FGU IP	04 25 49.9
BOZ EP	04 25 54.0
HHM EP	04 25 55.0
COL IP	04 25 59.8
EpP	26 09.9
MAY 24	
TUC E(P)	04 19 05.0
E	19 16.5
MAY 24	
BCN E(P)	04 20 52.8
MAY 24	
H-06 52 44.4	
59.7N 148.5W	
h ABOUT 020KM	
COL EP	06 54 05.0
HHM EP	06 57 49.4
BOZ EP	06 58 17.0
EUR IP	06 58 42.3
BCN EP	06 59 13.5
ALQ IP	06 59 53.0
TUC EP	06 59 55.0
EPCP	07 02 14.0
MAY 24	
ALQ EP	06 53 57.0
E	54 03.0
TUC EP	06 54 06.2
E	54 12.5
MAY 24	
COL EP	07 53 50.0
MAY 24	
COL EP	09 01 04.0
MAY 24	
H-09 04 57.0	
56.7N 152.9W	
h ABOUT 033KM	
COL EP	09 07 02.0
MAY 24	
FGU EP	09 58 59.3

Date and Station	Phase (GCT)
	h m s
MAY 24	
H-10 16 21.5	
59.9N 145.5W	
h ABOUT 015KM	
COL EP	10 17 40.0
HHM EP	10 21 12.3
BOZ EP	10 21 45.2
EUR EP	10 22 08.8
FGU E(P)	10 22 24.3
TUC EP	10 23 22.5
MAY 24	
EUR EP	10 29 52.6
E(S)	30 29.6
MAY 24	
H-10 31 24.1	
34.3N 141.1E	
h ABOUT 033KM	
COL EP	10 40 28.0
HON E(P)	10 40 52.0
ES	48 40.0
E	49 10.0
EL	55 54.0
KIP ES	10 48 38.0
EL	55 40.0
HHM EP	10 42 58.3
BUT EP	10 43 10.3
BOZ EP	10 43 15.0
I(pP)	43 25.0
EUR IP	10 43 19.8
SLC EP	10 43 30.6
BCN EP	10 43 35.0
EPP	46 37.0
GCA EP	10 43 44.0
TUC EP	10 44 00.3
ALQ IP	10 44 06.0
EpP	44 17.0
MAY 24	
TUC E(P)	11 35 25.0
MAY 24	
BOZ EP	11 47 02.0
I	47 05.9
ES	47 32.0
EUR EP	11 47 47.6
MAY 24	
H-14 33 11.9	
34.4N 141.0E	
h ABOUT 031KM	
COL EP	14 42 16.0

Date and Station	Phase (GCT)
	h m s
HHM EP	14 44 45.3
EUR IP	14 45 07.3
FGU E(P)	14 45 21.2
BCN E(P)	14 45 21.7
TUC EP	14 45 47.1
MAY 24	
TUC E(P)	15 38 10.0
MAY 24	
CSC E(P)	16 08 08.0
MAY 24	
BCN IP	16 27 31.8
ES	28 09.7
EL	28 24.5
EUR IP	16 28 12.3
E(S)	29 18.1
TUC E(P)	16 28 27.5
MAY 24	
H-16 36 05.4	
35.8N 070.8E	
h ABOUT 164KM	
COL IP	16 47 31.1
MAY 24	
H-18 01 34.8	
23.2S 071.6W	
h ABOUT 033KM	
TUC EP	18 12 25.8
E	12 28.5
ALQ IP	18 12 26.0
BCN EP	18 12 59.5
FGU EP	18 13 04.9
EUR EP	18 13 15.2
HHM EP	18 13 49.3
MAY 24	
BCN E(P)	18 09 52.2
EL	10 24.2
MAY 24	
FGU IP	18 42 19.4
ES	42 42.9
MAY 24	
H-19 27 11.0	
37.6N 141.0E	
h ABOUT 098KM	
COL EP	19 35 47.7
EUR IP	19 38 48.1
TUC EP	19 39 29.2
ALQ IP	19 39 35.0
MAY 24	
UKI E(P)	20 13 13.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	20 14 12.0
MAY 24	
EUR EP	20 14 00.3
E(S)	15 06.7
MAY 24	
H-20 32 36.3	
19.1S 177.9W	
h ABOUT 441KM	
TUC EP	20 44 11.4
ALQ E(P)	20 44 33.0
MAY 24	
H-20 54 26.6	
53.0N 168.7W	
h ABOUT 062KM	
COL IP	20 58 08.2
EUR EP	21 01 42.4
TUC EP	21 02 44.0
ALQ E(P)	21 02 53.0
EPCP	04 16.5
MAY 24	
H-20 57 38.3	
15.9S 167.6E	
h ABOUT 029KM	
EUR IP	21 10 36.3
BCN E(P)	21 10 44.0
TUC E(P)	21 10 54.8
MAY 24	
H-22 22 27.6	
37.0S 177.8E	
h ABOUT 149KM	
BCN EP	22 35 38.5
MAY 24	
EUR IP	22 55 57.9
EL	56 09.9
MAY 24	
TUC E(P)	23 10 26.8
MAY 25	
TUC EP	00 12 44.0
MAY 25	
EUR EP	00 20 41.5
MAY 25	
H-02 22 56.7	
19.8N 104.8W	
h ABOUT 033KM	
TUC EP	02 26 07.0
EUR E(P)	02 27 46.9
BOZ EP	02 28 27.5
MAY 25	
COL IP	04 55 06.5

Date and Station	Phase (GCT)
	h m s
MAY 25	
H-04 59 39.6	
30.6S 178.0W	
h ABOUT 033KM	
TUC EP	05 12 34.0
E	12 49.3
EUR EP	05 12 38.7
MAY 25	
COL EP	05 48 56.0
MAY 25	
SJP IP	07 01 56.4
IS	02 08.2
MAY 25	
H-08 32 49.0	
15.7S 174.9W	
h ABOUT 269KM	
BCN EP	08 44 12.0
EUR IP	08 44 17.8
TUC IP D	08 44 18.5
COL EP	08 44 44.0
BOZ IP	08 44 48.7
MAY 25	
EUR IP	09 04 06.9
IL	04 29.3
MAY 25	
EUR EP	09 11 59.9
EL	12 21.9
MAY 25	
EUR E(P)	09 27 15.0
TUC EP	09 27 17.5
BCN EP	09 27 22.0
MAY 25	
BUT IP	09 32 12.2
MAY 25	
GUA IP	09 41 46.0
ES	42 12.0
MAY 25	
BUT IP	09 53 29.4
MAY 25	
COL EP	10 49 40.0
MAY 25	
H-10 58 51.2	
52.5N 167.2W	
h ABOUT 033KM	
COL EP	11 02 35.0
EUR IP	11 06 01.6
BCN EP	11 06 25.0
TUC EP	11 07 04.6
E(pP)	07 14.6

Date and Station	Phase (GCT)
	h m s
MAY 25	
GUA EP	11 18 13.0
MAY 25	
TUC E(P)	12 09 34.0
BCN E(P)	12 10 27.0
EL	11 43.0
MAY 25	
BUT EP	13 13 40.2
IL	14 03.3
MAY 25	
H-13 20 31.9	
84.4N 103.9E	
h ABOUT 033KM	
EUR IP	13 30 04.0
MAY 25	
HHM IP	13 43 39.5
IL	43 58.3
BOZ EP	13 43 51.8
I	43 55.0
IS	44 17.0
IL	44 22.0
MAY 25	
COL EP	14 26 22.0
MAY 25	
COL IP	15 46 23.5
MAY 25	
BOZ IP	15 53 36.0
IL	53 52.0
MAY 25	
COL EP	17 06 07.0
MAY 25	
COL EP	17 15 50.0
MAY 25	
BOZ IP	18 02 37.5
IS	02 46.0
HHM E(P)	18 03 04.3
EL	03 43.3
MAY 25	
SLC EP	18 51 20.1
ES	51 37.6
MAY 25	
FGU IP	18 51 54.0
E(S)	52 24.6
MAY 25	
EUR EP	18 59 21.8
MAY 25	
BOZ IP	19 05 05.0
IL	05 15.0
MAY 25	
BOZ IP	19 41 17.0
IL	41 27.0

Date and Station	Phase (GCT)
	h m s
MAY 25	
H-19 44 07.0	
9.1S 088.9E	
h ABOUT 033KM	
COL EP'	20 02 44.2
HHM EP'	20 03 14.0
BOZ EP'	20 03 23.0
EPP	06 26.0
EUR IP'	20 03 35.9
FGU IP'	20 03 40.1
BCN EP'	20 03 45.3
EP'	03 54.0
GCA IP'	20 03 47.7
WAS IP'	20 03 51.0
TUC EP'	20 03 53.7
CSC EP'	20 04 04.0
MAY 25	
BCN EP	21 20 30.3
MAY 25	
BCN E(P)	21 36 17.3
EL	36 47.5
TUC E(P)	21 36 57.0
MAY 25	
COL EP	22 16 08.0
MAY 25	
CSC IP	22 23 43.0
MAY 25	
EUR IP	22 25 16.3
E(S)	25 44.6
MAY 25	
TUC EP	22 32 13.0
MAY 25	
FGU EP	22 55 49.1
ES	56 24.6
MAY 26	
ALQ EP	00 12 49.0
MAY 26	
H-00 25 40.6	
39.5N 109.4W	
h ABOUT 033KM	
FGU IP	00 26 05.7
IS	26 25.2
GCA IP C	00 26 27.2
E(S)	26 58.1
EUR EP	00 26 56.5
MAY 26	
TUC EP	00 27 52.4
MAY 26	
BHP IP	01 08 29.5

Date and Station	Phase (GCT)
	h m s
MAY 26	
BHP IP	01 16 25.5
IS	16 56.0
MAY 26	
BCN EP	02 38 45.9
MAY 26	
TUC E(P)	05 22 24.0
MAY 26	
H-05 33 44.6	
60.3N 145.5W	
h ABOUT 033KM	
COL IP	05 34 55.0
HHM EP	05 38 33.0
BOZ EP	05 39 04.9
E(PCP)	42 39.0
EUR IP	05 39 32.7
EPCP	42 48.5
TUC EP	05 40 45.6
MAY 26	
TUC E(P)	05 49 01.8
MAY 26	
COL EP	06 23 07.0
MAY 26	
HHM E(P)	06 26 00.0
E	26 12.2
BOZ EP	06 26 19.0
EUR EP	06 26 28.2
TUC E(P)	06 27 14.6
MAY 26	
ALQ IP	08 44 42.0
E	46 38.0
MAY 26	
SJP IP	08 45 28.8
EL	45 58.0
MAY 26	
BOZ IP	08 51 04.0
IS	51 10.0
MAY 26	
BOZ IP	09 32 06.2
I(S)	32 14.0
IL	32 19.0
HHM E(P)	09 32 43.0
E	33 21.2
MAY 26	
H-09 40 57.9	
16.5N 145.9E	
h ABOUT 094KM	
GUA IP	09 41 45.5
ES	42 20.0
COL IP	09 51 29.8
HHM IP	09 53 21.7

Date and Station	Phase	Phase (GCT) h m s
EUR	IP	09 53 28.8
	I*P	53 51.2
	EPP	56 47.3
BOZ	IP	09 53 33.2
	I*P	53 51.0
BCN	EP	09 53 38.8
SLC	IP	09 53 41.6
GCA	IP	09 53 47.8
FGU	IP	09 53 48.9
TUC	IP	09 53 59.4
MAY 26		
COL	EP	10 10 21.0
MAY 26		
BOZ	E(P)	10 13 55.0
EUR	IP	10 14 27.3
RCD	EP	10 14 42.0
BCN	EP	10 14 56.5
MAY 26		
H-10 59 12.3		
56.2S 027.8W		
h ABOUT 120KM		
BHP	IP	11 10 56.0
PHI	E(P)	11 12 51.4
CSC	EP	11 12 51.5
	I	12 54.0
	E*P	13 22.5
	IPP	17 00.0
WAS	IP	11 13 05.0
	I(*P)	13 30.0
	IPP	17 23.0
	ESKS	23 31.0
CHK	E(P)	11 13 20.0
	IPP	17 50.0
TUC	EP	11 13 44.7
	ESKS	24 14.0
GCA	E(P)	11 14 06.5
	IP'	17 44.2
BCN	EP	11 14 09.0
	E	14 27.0
	IP'	17 45.0
	IPP	19 04.5
	ISKP	21 10.4
	EPKKP	28 09.0
	ESKKP	32 02.0
	E(SS)	35 24.0
FGU	E(P)	11 14 13.9
	IP'	17 46.7
SLC	EP	11 14 18.5
	EP'	17 44.7
	EPP	19 18.0
	ESKP	21 11.0
	ESKKP	31 21.8
	ESS	35 25.5
EUR	IP	11 14 24.0
	IP'	17 56.2
	EPP	19 22.2
	ESKP	21 18.7
	ESKS	24 39.6
	EPKKP	27 57.2
	ESKKP	31 16.1
BOZ	EP	11 14 33.5
	I(P')	17 56.8
	IPP	19 46.0
RCD	EP	11 14 36.0
	EP'	17 48.0
	E*P'	18 18.0
	ESKP	21 16.0
	EPKKP	28 09.0
BUT	EP	11 14 38.2
	I(P')	17 57.2
HHM	E(P)	11 15 00.0
	EP'	17 46.2
UKI	EP'	11 18 00.0
	I	18 05.0
HON	EP	11 15 06.0
	E	17 50.0
	IP'	18 11.0
	EPP	20 26.0
	ISKP	21 25.0
	ESP	30 37.0
	ESKKP	31 10.0
	E*SS	38 02.0
	ESSS	43 00.0
	EL	52 30.0
KIP	EP	11 15 06.0
	E	17 54.0
	IP'	18 11.0
	EPP	20 24.0
	ISKP	21 20.0
GUA	E	11 18 11.5
	EP'	18 30.5
	ESKP	21 49.0
SIT	EP'	11 18 30.2
COL	EP'	11 18 42.6
	I	18 51.1
MAY 26		
H-11 52 27.9		
08.4N 077.0W		
h ABOUT 026KM		
BHP	IP	11 53 09.0
	IS	53 38.0
BCN	E(P)	12 00 36.5
EUR	E(P)	12 00 58.5
MAY 26		
BCN	E(P)	11 56 47.5
MAY 26		
COL	EP	12 01 41.0
MAY 26		
H-12 23 27.5		
56.1S 027.7W		
h ABOUT 149KM		
EUR	EP'	12 42 02.7
HHM	EP'	12 42 12.2
COL	IP'	12 43 00.5
MAY 26		
BCN	EP	12 31 06.0
	E	31 13.0
MAY 26		
SIT	E(P)	13 02 54.5
MAY 26		
HHM	E(P)	13 58 30.0
MAY 26		
COL	EP	13 59 18.0
MAY 26		
COL	EP	15 00 52.0
MAY 26		
FGU	EP	15 39 35.5
	ES	39 55.2
MAY 26		
H-15 42 34.0		
56.1S 027.4W		
h ABOUT 082KM		
BOZ	IP'	16 01 21.5
HHM	EP'	16 01 36.9
COL	IP'	16 02 14.7
MAY 26		
BCN	IP	16 10 16.0
	IS	10 23.0
EUR	EP	16 10 57.6
	E(S)	11 46.2
MAY 26		
COL	EP	16 24 52.0
MAY 26		
BOZ	IP	16 44 25.5
	I(S)	44 40.0
MAY 26		
COL	EP	17 10 44.0
MAY 26		
COL	EP	18 00 27.0
MAY 26		
ALQ	EP	18 28 50.0
MAY 26		
HHM	EP	18 45 03.2
	IL	46 00.2
FGU	EP	18 45 27.2
MAY 26		
ALQ	EP	18 47 48.0
	E	47 57.0
MAY 26		
COL	EP	19 01 22.0
MAY 26		
BOZ	IP	19 03 44.0
	IL	03 53.0
MAY 26		
BOZ	IP	19 05 12.1
	IL	05 28.0
MAY 26		
FGU	E(P)	20 03 15.2
	E(S)	03 41.5
MAY 26		
BCN	IP	20 57 12.0
	IS	57 24.0
MAY 26		
H-21 58 34.1		
60.1N 147.0W		
h ABOUT 033KM		
COL	IP	21 59 46.0
HHM	EP	22 03 30.7
BOZ	EP	22 03 59.8
MAY 26		
BOZ	IP	22 15 08.2
	IL	15 18.0
HHM	E(P)	22 15 38.0
	EL	16 15.1
MAY 26		
H-23 43 26.3		
56.1S 026.6W		
h ABOUT 153KM		
BOZ	EP'	00 02 08.3
HHM	E(P')	00 02 13.3
COL	IP'	00 03 01.4
MAY 27		
COL	EP	00 18 57.0
MAY 27		
H-00 56 42.5		
56.1S 027.6W		
h ABOUT 105KM		
ALQ	EP'	01 15 06.0
	ESKP	18 30.0
TUC	EP'	01 15 07.5
	ESKP	18 30.5
	ESKS	21 38.3
	EPKKP	25 57.8
GCA	EP'	01 15 15.9
	ESKP	18 38.5
BCN	IP'	01 15 17.2
	EPP	16 21.8
	E(SKP)	18 40.6

Date and Station	Phase (GCT)
	h m s
FGU IP'	01 15 18.5
EUR IP'	01 15 22.9
EPP	16 56.9
ESKP	18 46.2
ESKS	22 13.3
IPKKP	25 28.1
BUT IP'	01 15 27.4
ISKP	18 52.4
BOZ IP'	01 15 27.7
EPP	17 00.0
ISKP	18 51.5
IPKKP	25 18.0
UKI EP'	01 15 30.2
HHM IP'	01 15 32.1
ESKP	18 36.1
COL EP'	01 16 11.4
I	16 19.9
HON E	01 18 28.0
ISKP	18 50.0
EsSS	35 32.0
EL	50 14.0
KIP ISKP	01 18 49.0
EsSS	35 56.0
EL	51 23.0
MAY 27	
GCA EP	01 52 45.0
IS	52 54.0
MAY 27	
HHM IP	02 10 05.6
MAY 27	
COL IP	02 56 49.5
MAY 27	
COL EP	02 58 39.0
MAY 27	
H-04 22 38.0	
14.6N 093.5W	
h ABOUT 063KM	
ALQ EP	04 27 43.0
TUC EP	04 27 46.5
FGU EP	04 28 40.6
BOZ IP	04 29 26.0
HHM EP	04 29 48.6
COL EP	04 32 54.0
MAY 27	
BOZ IP	04 26 23.4
MAY 27	
BCN IP	04 44 45.7
IS	44 57.5
GCA EP	04 45 17.5
E(S)	45 51.5

Date and Station	Phase (GCT)
	h m s
MAY 27	
H-06 30 57.7	
56.2S 027.4W	
h ABOUT 116KM	
ALQ EP'	06 49 21.0
ESKP	52 45.0
IPKKP	07 00 12.0
TUC EP'	06 49 21.8
ESKP	52 46.2
EPKKP	07 00 11.0
BCN EP'	06 49 31.4
EpP'	49 56.0
ESKP	52 55.7
EPKKP	59 55.3
EUR IP'	06 49 36.7
EpP'	50 01.4
ESKP	53 02.0
IPKKP	59 42.4
BOZ IP'	06 49 42.0
ISKP	53 07.0
IPKKP	59 31.5
HHM IP'	06 49 47.1
ISKP	50 13.1
COL EP'	06 50 27.0
I	50 35.3
MAY 27	
COL IP	06 31 21.8
MAY 27	
H-08 57 07.7	
25.7S 178.4W	
h ABOUT 274KM	
TUC EP	09 09 22.0
EUR EP	09 09 23.9
MAY 27	
BCN E(P)	09 30 17.5
E	30 19.7
EL	30 55.5
MAY 27	
H-09 50 02.7	
55.9S 027.4W	
h ABOUT 052KM	
EUR EP'	10 08 49.1
BOZ EP'	10 08 52.0
COL IP'	10 09 46.0
MAY 27	
ALQ IP	10 33 48.5
EUR EP	10 33 54.1
MAY 27	
H-11 06 22.0	
06.8N 073.1W	
h ABOUT 139KM	
BHP IP	11 07 59.5
IS	09 11.0

Date and Station	Phase (GCT)
	h m s
SJP EP	11 09 26.3
I	09 54.5
ES	11 42.0
CSC EP	11 12 03.0
EpP	12 37.0
ALQ IP	11 13 59.0
TUC IP D	11 14 12.8
ESCP	19 35.0
RCD IP	11 14 30.5
GCA IP	11 14 36.2
FGU IP	11 14 41.0
BCN EP	11 14 49.9
EpP	15 24.0
EUR IP	11 15 07.8
BOZ IP	11 15 11.9
BUT EP	11 15 17.6
HHM EP	11 15 33.1
COL EP	11 18 03.0
MAY 27	
H-11 20 26.8	
18.4S 173.1W	
h ABOUT 033KM	
BCN E(P)	11 32 20.3
TUC EP	11 32 24.2
EUR EP	11 32 26.5
GCA E(P)	11 32 35.1
ALQ EP	11 32 48.0
FGU E(P)	11 32 53.0
BOZ EP	11 32 58.9
COL EP	11 33 02.0
MAY 27	
BCN IP	13 04 25.0
IS	04 26.5
MAY 27	
ALQ EP	13 38 43.0
MAY 27	
H-13 51 28.3	
14.5N 145.2E	
h ABOUT 096KM	
GUA IP	13 51 48.5
HHM EP	14 04 01.1
BOZ EP	14 04 12.0
MAY 27	
COL EP	14 58 03.0

Date and Station	Phase (GCT)
	h m s
MAY 27	
H-15 48 17.3	
21.0S 174.5W	
h ABOUT 033KM	
EUR EP	16 00 29.4
BOZ EP	16 01 03.2
COL EP	16 01 06.0
MAY 27	
BOZ EP	17 02 28.0
ES	02 44.0
MAY 27	
BOZ EP	17 18 06.0
I	18 10.2
ES	18 40.0
HHM E(P)	17 18 38.0
EL	19 30.1
EUR IP	17 18 40.2
E(S)	19 49.2
MAY 27	
H-17 52 08.4	
59.1N 146.4W	
h ABOUT 033KM	
COL IP	17 53 34.2
BOZ EP	17 57 26.5
E	57 33.0
MAY 27	
RCD E(P)	17 56 41.0
MAY 27	
FGU E(P)	18 16 41.1
E(S)	17 00.9
MAY 27	
H-19 02 02.4	
56.4S 028.4W	
h ABOUT 061KM	
COL IP'	19 21 44.0
MAY 27	
COL EP	19 10 42.0
MAY 27	
COL EP	19 17 12.0
MAY 27	
FGU EP	20 46 15.7
E(S)	46 25.9
MAY 27	
FGU E(P)	21 50 32.9
ES	50 53.8
MAY 27	
SLC EP	21 56 53.6
ES	57 11.9
EUR EP	21 57 06.8
FGU IP	21 57 26.5
MAY 27	
FGU IP	22 32 32.8

Date and Station	Phase	Phase (GCT)
		h m s
MAY 27		
COL	EP	22 53 14.0
MAY 27		
EUR	EP	23 21 39.8
	E(S)	22 18.6
MAY 27		
EUR	EP	23 53 43.7
MAY 27		
COL	EP	23 57 29.0
MAY 28		
H-01 27 49.0		
19.6N 070.2W		
h ABOUT 033KM		
SJP	E(P)	01 28 49.6
	E(S)	29 41.5
MAY 28		
H-01 56 58.9		
24.5N 122.0E		
h ABOUT 041KM		
COL	EP	02 07 55.0
BOZ	EP C	02 10 19.0
EUR	IP	02 10 26.9
	EPP	14 22.9
MAY 28		
BOZ	EP	02 04 43.0
	EL	05 25.0
MAY 28		
TUC	EP	02 10 39.0
MAY 28		
TUC	EP	02 34 47.3
MAY 28		
H-03 57 19.0		
16.8S 177.7W		
h ABOUT 388KM		
EUR	EP	04 08 48.7
TUC	EP	04 08 51.2
COL	IP	04 09 09.4
BOZ	EP	04 09 18.5
MAY 28		
H-06 27 32.8		
15.5N 093.1W		
h ABOUT 033KM		
ALQ	EP	06 32 35.0
TUC	EP	06 32 38.4
EUR	EP	06 33 50.5
BOZ	EP	06 34 14.7
	E▸P	34 27.5
MAY 28		
H-06 32 53.8		
7.8N 126.8E		
h ABOUT 103KM		
COL	EP	06 45 00.0
MAY 28		
EUR	IP	08 43 04.9
	IS	43 42.4
MAY 28		
EUR	EP	11 14 20.8
	E(S)	15 04.2
MAY 28		
ALQ	E(P)	11 49 34.0
MAY 28		
H-12 33 10.2		
00.8S 024.7W		
h ABOUT 033KM		
ALQ	IP	12 45 39.0
FGU	E(P)	12 45 53.0
TUC	EP	12 45 55.0
GCA	EP	12 46 01.1
BOZ	EP	12 46 01.2
HHM	EP	12 46 09.2
BCN	EP	12 46 12.2
	E	46 30.0
EUR	EP	12 46 17.1
	EPP	49 55.8
MAY 28		
H-12 49 57.5		
13.4S 074.9W		
h ABOUT 103KM		
BHP	IP	12 54 55.0
SJP	EP	12 56 20.4
ALQ	IP	12 59 32.0
TUC	IP D	12 59 34.2
	E▸P	13 00 01.0
GCA	EP	13 00 03.0
BCN	EP	13 00 09.0
	E▸P	00 36.0
FGU	IP	13 00 14.5
RCD	IP	13 00 15.0
EUR	IP	13 00 29.9
	I▸P	00 56.6
BOZ	IP D	13 00 43.9
	I▸P	01 11.0
COL	IP	13 03 09.0
	E▸P	03 37.2
MAY 28		
BOZ	EP	13 29 08.5
MAY 28		
HON	IP	14 06 36.6
	ES	07 03.0
KIP	IP	14 06 37.2
MAY 28		
H-14 06 58.2		
60.2N 147.7W		
h ABOUT 033KM		
COL	EP	14 08 10.0
HHM	E(P)	14 11 58.0
BOZ	EP	14 12 25.0
MAY 28		
COL	EP	14 18 08.0
MAY 28		
H-16 18 04.2		
58.3N 150.6W		
h ABOUT 025KM		
COL	IP	16 19 44.0
HHM	IP	16 23 15.8
BUT	E(P)	16 23 33.0
	I	23 35.8
UKI	E(P)	16 23 36.4
BOZ	IP D	16 23 42.2
	I	23 45.5
	I	23 53.0
	PCP	27 05.5
	▸PCP	27 13.0
EUR	IP	16 24 04.9
	E▸P	24 12.0
	EPCP	27 11.5
	E▸PCP	27 19.0
	ESCP	30 52.3
FGU	E(P)	16 24 15.0
	I▸P	24 23.9
BCN	IP	16 24 34.0
	I▸P	24 41.5
	EPCP	27 19.6
GCA	EP	16 24 40.6
KIP	EP	16 25 15.0
ALQ	IP	16 25 16.5
	E▸P	25 24.0
	EPCP	27 35.0
	E▸PCP	27 43.0
TUC	IP D	16 25 16.9
	E▸P	25 24.2
	EPCP	27 35.0
SJP	EP	16 29 25.3
	E▸P	29 33.0
MAY 28		
HHM	EP	17 00 03.7
	E	00 20.5
BOZ	E(P)	17 00 17.0
	EL	00 49.0
MAY 28		
EUR	EP	17 10 56.7
MAY 28		
EUR	EP	17 15 46.8
MAY 28		
H-17 51 12.5		
01.8S 103.3W		
h ABOUT 033KM		
TUC	E(P)	17 58 01.2
ALQ	E(P)	17 58 19.0
BCN	E(P)	17 58 39.0
EUR	IP	17 59 09.0
BOZ	E(P)	17 59 47.0
HHM	E(P)	18 00 10.0
MAY 28		
COL	EP	18 31 29.0
MAY 28		
TUC	E(P)	18 45 30.0
MAY 28		
SLC	EP	18 59 47.1
	ES	19 00 13.9
MAY 28		
COL	IP	19 04 56.5
MAY 28		
FGU	EP	20 22 52.3
	ES	23 12.8
MAY 28		
HHM	EP	20 47 23.0
	EL	47 58.0
MAY 28		
H-21 09 09.5		
03.6S 102.7W		
h ABOUT 033KM		
TUC	EP	21 16 14.0
ALQ	E(P)	21 16 30.0
BCN	EP	21 16 51.5
	E	17 09.0
GCA	E(P)	21 16 55.2
EUR	IP	21 17 21.3
FGU	EP	21 17 22.9
BOZ	E(P)	21 18 00.0
HHM	EP	21 18 21.9
MAY 28		
FGU	IP	22 46 33.4
	IS	46 59.9
MAY 28		
EUR	EP	22 48 01.3
MAY 28		
ALQ	E(P)	23 00 14.0

Date and Station	Phase (GCT)
	h m s
GCA EP	23 00 21.0
ES	00 53.0
TUC EP	23 00 41.4
MAY 28	
SLC EP	23 06 29.5
IS	07 01.0
MAY 28	
BCN IP	23 09 58.5
IS	10 11.4
MAY 28	
H-23 28 27.9	
1.6N 127.2E	
h ABOUT 103KM	
COL EP	23 41 00.0
BOZ EP'	23 46 49.1
EUR EP'	23 46 50.0
TUC EP'	23 47 01.3
ALQ IP'	23 47 06.0
MAY 28	
SJP EP	23 48 41.1
MAY 29	
SJP IP	00 20 21.5
I	20 31.0
IS	20 36.2
MAY 29	
H-01 11 10.4	
37.3N 114.8W	
h ABOUT 033KM	
BCN IP	01 11 33.0
IS	11 50.0
EUR IP	01 11 47.3
GCA EP	01 11 51.0
IS	12 20.8
MAY 29	
SJP IP	02 28 57.2
IS	29 12.0
MAY 29	
H-02 47 38.0	
53.7N 167.8W	
h ABOUT 033KM	
COL EP	02 51 10.0
HHM IP	02 54 17.0
IPCP	56 56.5
BOZ EP	02 54 41.0
IPCP	57 05.0
EUR IP	02 54 50.8
IPCP	57 08.2
RCD EP	02 55 31.0
TUC IP D	02 55 54.8
E(PCP)	57 33.9

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	02 56 01.0
IPCP	57 37.0
EPP	57 46.0
SJP EP	02 59 57.0
MAY 29	
KIP ET	03 27 58.0
MAY 29	
H-03 34 51.8	
60.1N 146.5W	
h ABOUT 015KM	
COL IP	03 36 07.2
IL	37 20.0
SIT E(P)	03 36 26.5
HHM EP	03 39 47.0
BOZ EP	03 40 17.1
I▸P	40 22.0
EUR IP	03 40 44.7
IPCP	43 58.4
FGU E(P)	03 40 58.6
RCD E(P)	03 41 07.0
ALQ E(P)	03 41 55.0
EPCP	44 20.0
TUC EP D	03 41 57.0
E▸P	42 01.1
EPCP	44 20.2
MAY 29	
GCA EP	04 33 54.1
MAY 29	
H-05 08 02.2	
44.7N 149.4E	
h ABOUT 050KM	
COL IP	05 15 28.5
I(▸P)	15 41.2
HHM IP	05 18 19.5
E▸P	18 31.0
BOZ IP	05 18 39.2
I▸P	18 52.2
EUR IP	05 18 49.0
I▸P	19 06.7
IPCP	19 19.6
SLC E(P)	05 18 59.3
BCN EP	05 19 07.4
E▸P	19 20.1
GCA E(P)	05 19 07.8
RCD EP	05 19 16.0
E▸P	19 29.0
FGU E(P)	05 19 16.8
TUC EP	05 19 36.0
E▸P	19 49.2

Date and Station	Phase (GCT)
	h m s
ALQ IP	05 19 41.5
CSC E▸P	05 21 08.0
MAY 29	
H-05 35 10.6	
32.4S 067.3W	
h ABOUT 132KM	
TUC EP	05 46 46.2
ALQ IP	05 46 47.0
E	46 51.0
EUR E(P)	05 47 20.0
E	47 30.5
BOZ E(P)	05 47 44.0
MAY 29	
HHM EP	05 46 44.9
BOZ EP	05 47 08.0
MAY 29	
COL EP	08 15 04.0
MAY 29	
H-09 04 27.1	
56.2S 027.7W	
h ABOUT 033KM	
SJP EP	09 16 38.7
TUC EP'	09 22 59.6
EPP	23 54.2
ALQ EP'	09 23 00.0
BCN IP'	09 23 09.5
FGU EP'	09 23 10.9
EUR EP'	09 23 15.5
EPP	24 50.5
BOZ IP'	09 23 20.0
EPP	24 52.2
HHM EP'	09 23 25.0
COL EP'	09 24 04.0
IP'	24 13.0
MAY 29	
TUC EP	09 10 40.0
MAY 29	
COL IP	09 30 15.5
MAY 29	
H-10 17 34.5	
60.2N 146.3W	
h ABOUT 005KM	
COL EP	10 18 48.7
SIT IP	10 19 11.0
HHM IP	10 22 32.0
ES	26 46.0
EL	29 46.0
BUT IP	10 22 56.1

Date and Station	Phase (GCT)
	h m s
BOZ IP	10 23 02.0
E	24 44.0
UKI E(P)	10 23 05.4
EUR IP	10 23 29.9
IPCP	26 42.5
E(SCP)	30 24.7
SLC IP	10 23 35.4
FGU IP	10 23 44.0
RCD EP	10 23 50.0
E	23 57.0
EPCP	26 49.0
BCN IP C	10 24 00.5
IPCP	26 52.9
GCA E(P)	10 24 04.3
ALQ IP	10 24 39.0
E	24 53.0
EPCP	27 06.0
TUC EP C	10 24 42.0
E▸P	24 45.0
EPCP	27 04.8
KIP IP	10 25 07.6
ES	31 24.0
EL	35 32.0
ET	11 06 15.0
HON IP	10 25 08.9
ES	31 22.0
EL	35 36.0
WAS EP	10 26 10.5
CSC EP	10 26 24.0
SJP EP	10 28 45.5
MAY 29	
H-12 25 16.9	
18.6S 177.8W	
h ABOUT 462KM	
EUR EP	12 36 47.3
TUC EP	12 36 48.0
COL IP	12 37 08.6
ALQ E(P)	12 37 09.0
BOZ EP	12 37 16.0
MAY 29	
BCN IP	13 01 00.7
MAY 29	
BOZ EP	14 32 05.0
MAY 29	
H-14 45 49.6	
56.1S 027.9W	
h ABOUT 170KM	
BOZ EP'	15 04 26.0
HHM EP'	15 04 31.8

Date and Station	Phase (GCT)
	h m s
COL IP'	15 05 19.0
MAY 29	
H-15 33 05.5	
56.3S 028.0W	
h ABOUT 120KM	
COL IP'	15 52 40.3
I(▸P')	53 11.1
MAY 29	
EUR EP	16 01 48.1
ALQ E(P)	16 02 17.0
E	02 25.0
MAY 29	
SLC IP	18 16 18.5
ES	16 34.0
FGU IP	18 16 50.5
IS	17 21.2
EUR IP	18 17 03.8
ES	17 50.1
BOZ EP	18 17 36.0
MAY 29	
H-18 35 02.3	
26.2S 178.3E	
h ABOUT 614KM	
TUC EP	18 46 56.2
E▸P	49 09.5
EUR IP	18 46 57.4
MAY 29	
EUR IP	18 36 32.7
MAY 29	
H-18 42 19.3	
26.2S 178.3E	
h ABOUT 605KM	
TUC EP	18 54 14.2
E	54 23.5
MAY 29	
COL EP	18 49 28.0
MAY 29	
BOZ EP	18 49 38.0
MAY 29	
SLC EP	18 55 23.0
ES	55 42.0
MAY 29	
H-19 01 57.0	
26.1S 178.3E	
h ABOUT 613KM	
TUC EP	19 13 50.5
E▸P	16 07.0
EUR EP	19 13 51.9
COL EP	19 14 11.8
MAY 29	
HHM EP	19 12 29.0
EL	13 00.0

Date and Station	Phase (GCT)
	h m s
MAY 29	
RCD E(P)	19 48 25.0
MAY 29	
FGU EP	20 04 54.7
IS	05 15.2
MAY 29	
H-20 09 00.6	
.5S 134.7E	
h ABOUT 033KM	
COL EP	20 21 35.0
MAY 29	
BOZ EP	20 48 48.2
EUR EP	20 48 56.1
MAY 29	
ALQ E(P)	22 09 07.0
E(S)	09 42.0
GCA EP	22 09 12.9
IS	09 47.5
MAY 29	
EUR IP	22 22 49.0
E(S)	23 00.0
MAY 29	
TUC EP	22 28 39.5
MAY 29	
BOZ IP	22 47 31.0
IS	47 39.0
HHM E(P)	22 48 08.0
EL	48 46.0
MAY 29	
FGU IP	22 58 04.6
IS	58 24.8
BOZ EP	22 58 34.9
MAY 29	
TUC EP	23 37 39.5
MAY 30	
TUC E(P)	00 38 11.6
MAY 30	
GCA EP	02 00 06.6
ES	00 29.5
MAY 30	
BOZ EP	02 53 48.5
MAY 30	
BOZ EP	03 17 47.5
I	17 53.0
MAY 30	
H-03 18 08.3	
59.5N 148.5W	
h ABOUT 015KM	
COL IP	03 19 33.2
ES	20 48.0
SIT EP	03 19 54.0
E(S)	21 15.6

Date and Station	Phase (GCT)
	h m s
HHM EP	03 23 13.1
BUT IP	03 23 35.5
BOZ IP	03 23 42.3
EUR IP	03 24 07.8
IPCP	27 26.1
E▸PCP	27 36.1
ISCP	30 55.4
SLC EP	03 24 14.3
FGU IP	03 24 23.9
RCD IP	03 24 32.0
BCN IP	03 24 38.1
I	24 47.5
GCA IP	03 24 43.0
ALQ IP	03 25 18.0
EPCP	27 39.0
ESCP	31 24.0
TUC IP C	03 25 20.0
E	25 36.0
EPP	26 45.0
EPCP	27 38.0
ESCP	31 24.0
SJP EP	03 29 22.8
MAY 30	
BOZ IP	03 32 23.2
I(S)	32 29.0
BUT E(P)	03 32 27.5
MAY 30	
BCN EP	03 41 15.2
MAY 30	
BOZ IP	04 27 25.9
IS	27 32.0
MAY 30	
TUC E(P)	04 32 51.0
MAY 30	
BOZ IP	04 37 32.0
IS	37 38.0
BUT EP	04 37 38.5
MAY 30	
COL IP	06 39 30.0
MAY 30	
BOZ IP	06 44 43.3
IS	44 52.0
BUT IP	06 44 48.5
MAY 30	
BOZ E(P)	06 49 49.0
I	50 19.0
MAY 30	
BOZ IP	09 18 10.5
IS	18 16.0

Date and Station	Phase (GCT)
	h m s
MAY 30	
BOZ IP	11 17 25.0
IS	17 30.0
MAY 30	
TUC E(P)	14 00 22.2
MAY 30	
H-14 30 45.3	
36.2N 141.1E	
h ABOUT 049KM	
GUA EP	14 35 43.0
ES	39 47.0
COL EP	14 39 35.6
HON EP	14 40 10.0
ES	47 45.0
ESS	51 40.0
EL	53 08.0
KIP EP	14 40 10.0
ES	47 46.0
ESS	51 40.0
EL	53 06.0
HHM IP	14 42 10.2
UKI E(P)	14 42 15.5
BUT IP	14 42 21.5
BOZ IP	14 42 26.3
IS	52 00.0
EUR IP	14 42 32.7
SLC IP	14 42 43.3
BCN EP	14 42 49.5
EPP	45 58.1
FGU IP	14 42 51.6
GCA EP	14 42 56.5
RCD IP	14 42 58.5
E▸P	43 07.0
ES	53 06.0
TUC EP	14 43 13.5
E▸P	43 22.3
E(S)	53 39.0
ALQ IP	14 43 20.0
E▸P	43 29.0
MAY 30	
BOZ E(P)	16 09 21.0
MAY 30	
COL EP	16 10 03.0
MAY 30	
COL IP	16 17 31.1
MAY 30	
H-17 20 37.6	
41.3N 141.9E	
h ABOUT 057KM	
COL IP	17 28 51.5
E▸P	29 05.7

Date and Station	Phase (GCT)
	h m s
BUT EP	17 31 48.6
BOZ IP	17 31 53.1
E	32 11.0
EUR IP	17 32 02.6
E	32 19.8
BCN EP	17 32 20.5
E	32 39.5
RCD EP	17 32 26.5
TUC EP	17 32 47.0
ALQ IP	17 32 52.0
E	33 10.0
MAY 30	
H-17 23 17.3	
9.3N 126.4E	
h ABOUT 091KM	
COL EP	17 35 18.0
MAY 30	
SLC EP	17 58 15.2
MAY 30	
BCN EP	18 36 15.5
ES	36 37.0
EUR IP	18 36 29.0
E(S)	37 02.0
FGU EP	18 36 33.7
GCA EP	18 36 36.6
ES	37 16.2
MAY 30	
BOZ EP	19 21 57.0
E	22 41.0
MAY 30	
COL IP	19 25 55.1
MAY 30	
H-19 24 41.3	
28.4S 069.8W	
h ABOUT 084KM	
ALQ E(P)	19 35 56.0
TUC E(P)	19 35 56.0
RCD EP	19 36 36.0
EUR EP	19 36 43.7
E▸P	37 08.2
BUT EP	19 37 06.6
E▸P	37 26.6
MAY 30	
COL IP	19 42 34.3
MAY 30	
H-19 48 07.9	
53.5N 170.6W	
h ABOUT 097KM	
COL EP	19 51 51.0

Date and Station	Phase (GCT)
	h m s
EUR EP	19 55 27.0
TUC EP	19 56 31.0
MAY 30	
HHM EP	19 52 13.2
MAY 30	
H-20 02 21.7	
14.6N 091.8W	
h ABOUT 023KM	
TUC E(P)	20 07 43.5
EUR EP	20 08 54.3
MAY 30	
BUT IP	20 16 20.5
BOZ IP	20 16 48.0
IS	16 09.0
MAY 30	
SLC EP	21 29 01.1
EUR EP	21 29 52.9
MAY 30	
FGU EP	21 40 58.3
MAY 30	
EUR IP	22 21 37.7
EL	21 57.3
MAY 30	
H-22 34 33.3	
56.6N 152.3W	
h ABOUT 015KM	
COL IP	22 36 39.0
BOZ EP	22 40 24.0
EUR IP	22 40 36.2
EPCP	43 43.6
E(SCP)	47 23.7
TUC EP	22 41 48.0
MAY 30	
BOZ IP	22 39 07.6
IS	39 19.0
BUT E(P)	22 39 16.0
EL	39 34.6
MAY 30	
COL EP	22 58 50.0
MAY 30	
KIP ET	23 18 29.0
MAY 30	
GCA IP	23 45 27.5
MAY 31	
H-00 40 36.4	
43.5N 146.8E	
h ABOUT 048KM	
COL IP	00 48 20.0
IS	54 30.0

Date and Station	Phase (GCT)
	h m s
SIT IP D	00 49 19.6
ES	56 22.0
KIP IP	00 49 32.0
ES	56 46.0
HON EP	00 49 33.0
ES	56 46.0
HHM EP	00 51 05.3
UKI IP	00 51 09.9
BUT IP	00 51 22.7
EP'P'	01 19 49.6
BOZ IP C	00 51 27.9
I	55 49.0
EUR IP	00 51 36.4
ESCS	01 01 31.5
EP'P'	19 43.9
SLC IP	00 51 46.5
EP'P'	01 19 39.0
FGU IP	00 51 54.4
BCN IP C	00 51 54.7
I	52 13.7
I	54 02.5
ES	01 01 12.7
ESCS	02 07.7
E	03 43.5
EP'P'	19 43.7
GCA IP	00 52 01.8
RCD IP	00 52 02.3
E	52 19.0
TUC IP C	00 52 23.8
ES	01 02 06.0
ALQ IP	00 52 28.5
ES	01 02 16.0
WAS IP	00 53 29.0
EPP	57 01.0
CSC IP	00 53 38.0
E	53 52.0
EPP	57 20.0
ISKS	01 03 59.0
SJP EP	00 55 10.5
EP'	59 07.5
PP	59 46.0
MAY 31	
BHP EP	00 55 14.0
MAY 31	
H-00 56 42.9	
43.6N 147.1E	
h ABOUT 033KM	
COL IP	01 04 26.0
BOZ IP C	01 07 32.0
EUR IP	01 07 43.1
BCN IP	01 08 02.7

Date and Station	Phase (GCT)
	h m s
TUC EP	01 08 30.2
MAY 31	
HHM EP	01 28 06.3
MAY 31	
BOZ EP	04 44 34.0
MAY 31	
H-04 54 11.1	
30.6S 070.8W	
h ABOUT 069KM	
EUR EP	05 06 22.0
MAY 31	
EUR IP	06 27 38.3
IS	28 14.5
MAY 31	
BCN EP	06 39 49.4
EL	40 43.4
EUR IP	06 40 09.0
E(S)	41 19.2
MAY 31	
TUC EP	06 42 54.0
MAY 31	
EUR EP	10 16 10.5
E(S)	16 48.8
MAY 31	
H-10 24 53.5	
53.7N 158.7E	
h ABOUT 110KM	
COL EP	10 30 41.0
KIP EP	10 33 06.0
BOZ IP C	10 34 14.5
I▸P	34 45.0
EUR IP	10 34 29.0
I▸P	34 59.7
FGU E(P)	10 34 47.3
RCD IP	10 34 53.5
TUC EP	10 35 23.4
E▸P	35 55.0
MAY 31	
H-10 30 25.0	
19.2N 069.4W	
h ABOUT 083KM	
SJP EP	10 31 13.5
I(S)	31 42.0
ALQ EP	10 37 23.0
RCD IP	10 37 34.0
TUC EP	10 37 48.0
FGU EP	10 37 52.3
SLC EP	10 38 11.3
BOZ IP C	10 38 23.0

Date and Station	Phase (GCT)
	h m s
BUT EP	10 38 29.8
EUR EP	10 38 32.5
HHM EP	10 38 43.8
COL IP	10 41 15.8
MAY 31	
COL EP	12 40 45.0
MAY 31	
SJP IP	12 54 47.6
IS	54 58.3
MAY 31	
H-13 19 46.5	
35.3N 103.1E	
h ABOUT 033KM	
COL IP	13 30 31.0
HHM EP	13 32 46.5
BOZ EP	13 33 04.2
EUR EP	13 33 18.9
MAY 31	
H-13 56 08.1	
23.3S 177.8W	
h ABOUT 204KM	
TUC EP	14 08 20.3
BOZ EP	14 08 51.0
MAY 31	
SJP IP	13 57 14.0
IS	57 26.0
MAY 31	
SJP IP	14 21 51.6
IS	22 06.0
MAY 31	
SJP IP	14 58 38.0
IS	58 50.0
MAY 31	
SJP IP	15 27 02.8
IS	27 15.0
MAY 31	
BOZ IP	16 36 49.0
IS	36 57.0
MAY 31	
BOZ EP	16 55 18.0
E	55 55.8
EUR EP	16 55 13.9
MAY 31	
EUR IP	16 56 13.0
MAY 31	
H-17 15 26.8	
13.6S 172.1E	
h ABOUT 073KM	
HON EP	17 23 38.0
ES	30 22.0
EL	33 54.0
BCN EP	17 27 55.0
EpP	28 12.5
EUR IP	17 27 55.5
COL E(P)	17 27 48.6
TUC EP	17 28 03.8
E(pP)	28 23.8
E(S)	38 40.0
GCA EP	17 28 08.2
SLC EP	17 28 13.3
HHM IP	17 28 17.3
BOZ IP D	17 28 20.2
E(pP)	28 40.0
FGU IP	17 28 22.1
ALQ IP	17 28 24.0
MAY 31	
HHM EP	17 16 54.4
MAY 31	
COL IP	17 17 42.1
MAY 31	
TUC EP	18 32 27.0
MAY 31	
H-18 34 15.5	
13.3S 171.8E	
h ABOUT 111KM	
COL IP	18 46 33.1
IpP	47 01.2
BCN EP	18 46 39.0
EpP	47 07.0
EUR EP	18 46 39.9
EpP	47 08.4
BOZ IP C	18 47 05.0
IpP	47 33.5
FGU EP	18 47 05.6
MAY 31	
TUC EP	19 13 44.4
MAY 31	
COL EP	19 44 56.0
MAY 31	
H-19 58 09.9	
9.2S 079.5W	
h ABOUT 040KM	
TUC EP	20 07 10.0
EUR E(P)	20 08 08.6
BOZ EP	20 08 25.5
MAY 31	
TUC EP	21 09 53.7
MAY 31	
BOZ EP	21 10 21.0
MAY 31	
BUT EP	22 05 59.2
MAY 31	
COL IP	22 21 50.5
MAY 31	
EUR IP	22 25 58.9