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November, 1964

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COAST & GEODETIC SURVEY

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CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 12

U. S. DEPARTMENT OF COMMERCE

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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

Robert M. White, Administrator

COAST AND GEODETIC SURVEY—WASHINGTON

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1964

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
*Bozman, 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. C. (RCD) WWNSS
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJG) WWNSS
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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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
NOV	H M S	DEG	DEG	KM		
1	02 56 41.4	25.1 S	179.7 W	459	5.0	SOUTH OF FIJI ISLANDS.
1	04 55 47.4	51.8 N	130.8 W	33	4.9	QUEEN CHARLOTTE ISLANDS REGION.
1	05 15 48.4	13.7 N	120.6 E	94	4.9	MINDORO, PHILIPPINE ISLANDS. FELT AT HINATUAN.
1	06 46 54.1	51.7 N	175.4 W	20	5.0	ANDREANOF ISLANDS, ALEUTIAN IS.
1	10 03 28.6	34.7 S	108.5 W	33	4.6	EASTER ISLAND CORDILLERA.
1	12 07 59*	13.9 N	92.3 W	33	3.9	OFF COAST OF CHIAPAS, MEXICO.
1	12 26 06.2	3.1 N	128.1 E	65	6.3	NORTH OF HALMAHERA. MAG. 5 3/4-6 (PAL).
1	15 58 15.1	3.1 N	128.3 E	107		NORTH OF HALMAHERA.
1	16 43 41*	27.3 S	178.5 W	366	4.0	KERMADEC ISLANDS.
1	20 41 07.0	38.0 N	117.8 W	33	3.8	NEVADA.
2	05 03 52.3	7.5 S	128.7 E	48	4.5	BANDA SEA.
2	06 50 58.2	4.1 S	76.9 W	91	6.0	NORTHERN PERU. MAG. 6 3/4 (PAS).
2	07 00 51*	41.1 N	88.3 E	33	4.8	SOUTHERN SINKIANG PROV., CHINA.
2	07 07 58*	11.8 N	86.9 W	117	4.6	NEAR COAST OF NICARAGUA.
2	08 10 05.5	16.9 S	169.7 E	255	4.7	NEW HEBRIDES ISLANDS.
2	09 18 01.6	5.8 S	105.4 E	39	5.0	SUNDA STRAIT.
2	11 38 55.7	37.6 N	118.0 W	32	4.4	CALIFORNIA-NEVADA BORDER REGION. FELT AT DYER, NEVADA AND AT OASIS, CALIFORNIA. MAG. 4 1/2 (PAS), 4 3/4 (BRK).
2	11 50 58.1	44.5 N	149.7 E	33	4.2	KURILE ISLANDS.
2	18 37 30*	20.9 S	178.2 W	604	4.4	FIJI ISLANDS REGION.
2	22 59 35.3	44.3 N	11.6 E	33	4.3	NORTHERN ITALY. FELT AT BOLOGNA.
3	00 29 41.8	47.1 N	144.6 E	353	4.8	SEA OF OKHOTSK.
3	02 05 40.4	34.5 N	140.3 E	86	5.2	NEAR EAST COAST OF HONSHU, JAPAN. FELT AT TOKYO.
3	02 25 50.7	29.7 N	51.0 E	35		SOUTHERN IRAN.
3	06 05 33.1	31.6 N	66.4 E	38	5.1	AFGHANISTAN.
3	06 14 31*	32.4 N	59.1 E	33		IRAN.
3	09 14 40*	57.0 N	150.9 W	33	4.2	GULF OF ALASKA.
3	11 09 37.0	34.6 N	138.6 E	33	4.6	NEAR S. COAST OF HONSHU, JAPAN. FELT AT TOKYO.
3	12 43 04.7	0.1 N	123.7 E	149	5.4	NORTHERN CELEBES.
3	13 53 35*	50.3 N	158.3 E	33	4.2	KURILE ISLANDS REGION.
3	14 55 40.1	44.6 N	149.0 E	20	5.0	KURILE ISLANDS.
3	17 36 09.5	36.0 N	50.6 E	33	5.3	IRAN.
3	18 28 58.6	1.7 S	149.8 E	35	5.8	NEW IRELAND REGION. FELT AT EMIRA.
3	18 58 41*	37.7 N	118.1 W	10	4.1	CALIFORNIA-NEVADA BORDER REGION. MAG. 3 3/4-4 (BRK).
4	02 11 24.9	19.7 S	69.2 W	102	5.2	NORTHERN CHILE.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
4	03 37 35.9	54.9 N	162.6 E	49	5.0	NEAR EAST COAST OF KAMCHATKA.
4	04 44 35*	58.8 N	151.6 W	34	4.6	KODIAK ISLAND REGION.
4	06 00 13*	21.0 S	67.1 W	244	3.9	CHILE-BOLIVIA BORDER REGION.
4	06 27 54*	16.3 S	172.9 W	33	4.4	SAMOA ISLANDS REGION.
4	06 40 51.0	55.0 N	162.3 E	33	4.2	NEAR EAST COAST OF KAMCHATKA.
4	08 42 53.8	39.6 N	110.3 W	0	4.0	UTAH. COAL MINE ROCKBURST.
4	11 50 32*	37.6 N	118.2 W	33	3.6	CALIFORNIA-NEVADA BORDER REGION. MAG. 4 (BRK).
4	11 53 56*	37.5 N	118.4 W	33		CALIFORNIA-NEVADA BORDER REGION. MAG. 4 (BRK).
4	15 20 23.5	24.8 N	96.1 E	43		BURMA.
4	19 46 06.2	36.4 N	70.8 E	210	4.6	HINDU KUSH REGION.
4	21 02 38.7	6.8 N	125.4 E	70		MINDANAO, PHILIPPINE ISLANDS. FELT AT DAVAO.
4	22 34 54*	20.1 S	178.5 W	605	4.1	FIJI ISLANDS REGION.
5	00 45 30.9	7.0 S	129.4 E	95	5.2	BANDA SEA.
5	01 47 42.1	5.1 S	146.1 E	137		EAST NEW GUINEA REGION.
5	04 19 39.5	5.5 S	147.2 E	197	4.9	EAST NEW GUINEA REGION.
5	07 01 15.3	9.2 N	142.0 E	33	4.8	CAROLINE ISLANDS REGION.
5	08 47 06.0	18.2 N	68.4 W	183	4.8	MONA PASSAGE.
5	09 07 32*	20.3 S	174.0 W	15	4.7	TONGA ISLANDS.
5	15 00 00.1					37° 10' 28"N, 116° 04' 01"W. NEVADA TEST SITE." HANDCAR" SHOT ELEVATION 927.1 METERS (AEC).
5	20 55 42.9	35.1 N	24.2 E	10	4.2	CRETE.
6	06 57 38*	44.5 N	148.4 E	33	4.5	KURILE ISLANDS.
6	09 22 01*	57.0 N	161.6 E	33	4.4	KAMCHATKA.
6	09 53 22.4	44.4 N	149.0 E	60	5.7	KURILE ISLANDS. MAG. 5 1/2-5 3/4 (PAL).
6	10 25 31.8	44.5 N	148.9 E	33	4.5	KURILE ISLANDS.
6	12 14 29.8	43.5 N	126.6 W	33	4.6	OFF COAST OF OREGON.
6	12 18 42*	59.7 N	148.9 W	33	4.2	KENAI PENINSULA, ALASKA.
6	13 55 53.7	31.7 S	57.4 E	33	5.9	ATLANTIC-INDIAN RISE.
6	16 31 11.9	21.0 S	67.2 W	179	4.4	CHILE-BOLIVIA BORDER REGION.
6	20 35 59*	44.5 N	148.8 E	72	4.2	KURILE ISLANDS.
7	00 50 08*	2.0 N	99.7 E	33	5.2	NORTHERN SUMATRA.
7	01 36 56.5	12.0 N	88.0 W	33	4.4	OFF COAST OF CENTRAL AMERICA.
7	03 48 12*	32.9 S	67.4 W	143	4.0	MENDOZA PROVINCE, ARGENTINA.
7	04 03 38.7	14.0 N	144.7 E	155		MARIANA ISLANDS.
7	04 16 31*	48.6 N	156.9 E	33	4.5	KURILE ISLANDS REGION.
7	07 44 05.7	6.5 S	148.2 E	48	5.3	NEW BRITAIN REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
7	07 59 56.7	6.8 S	148.4 E	44		NEW BRITAIN REGION.
7	08 47 59.3	6.7 S	148.2 E	69		NEW BRITAIN REGION.
7	09 11 28.8	19.3 N	147.1 E	57	4.7	MARIANA ISLANDS REGION.
7	11 20 46*	50.7 N	179.1 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
7	14 49 13.4	45.5 N	150.3 E	33	5.6	KURILE ISLANDS.
7	15 42 38*	46.5 N	13.9 E	33		AUSTRIA.
7	18 37 43.7	0.4 N	100.1 E	107	5.1	NORTHERN SUMATRA.
7	20 07 04*	13.1 N	89.9 W	82	4.3	EL SALVADOR.
7	20 21 12.1	13.0 N	90.1 W	73	4.1	NEAR COAST OF GUATEMALA.
7	22 03 18.8	36.5 N	70.8 E	215		HINDU KUSH REGION.
7	23 41 55.1	19.9 S	177.4 W	281	4.5	FIJI ISLANDS REGION.
8	00 06 54*	48.8 S	111.2 W	33	4.7	EASTER ISLAND CORDILLERA.
8	01 19 17*	35.8 N	120.2 W	14	4.4	CENTRAL CALIFORNIA. MAG. 4 (BRK).
8	01 25 36*	32.2 S	178.8 W	33	4.4	SOUTH OF KERMADEC ISLANDS.
8	02 43 57*	49.0 S	163.7 E	33	5.6	AUCKLAND ISLANDS REGION. MAG. 6 1/2 (PAS), 6 3/4 (BRK), 6 1/4-6 1/2 (PAL).
8	04 30 51.4	18.1 S	178.5 W	643	3.5	FIJI ISLANDS REGION.
8	10 33 27.5	29.7 N	51.0 E	40	4.8	SOUTHERN IRAN. FELT.
8	16 36 52.8	5.5 S	147.0 E	170	4.7	EAST NEW GUINEA REGION.
8	17 56 31.1	34.8 N	133.0 E	42	5.0	NEAR S. COAST OF SOUTHERN HONSHU.
9	04 44 19.9	7.2 S	128.2 E	129	5.3	BANDA SEA.
9	08 05 48.8	39.8 N	48.4 E	65	5.1	N.W. IRAN-USSR BORDER REGION. FELT.
9	09 56 11*	14.6 N	92.2 W	61	3.8	NEAR COAST OF CHIAPAS, MEXICO.
9	16 01 03*	56.8 N	161.5 E	33	4.5	NEAR EAST COAST OF KAMCHATKA.
9	16 12 50.6	29.5 N	86.0 E	33	4.7	TIBET.
9	17 53 03*	7.1 S	129.1 E	164		BANDA SEA.
9	18 24 21*	28.7 N	112.0 W	33	3.5	GULF OF CALIFORNIA.
9	18 43 38.6	19.3 N	121.0 E	33	5.0	PHILIPPINE ISLANDS REGION.
9	23 35 36*	14.0 S	177.9 E	421	3.8	FIJI ISLANDS REGION.
10	04 16 48*	24.4 S	65.7 W	76	4.4	SALTA PROVINCE, ARGENTINA.
10	05 03 45*	60.1 N	143.5 W	40	4.6	SOUTHERN ALASKA.
10	06 07 49.6	59.8 N	144.3 W	42	5.0	GULF OF ALASKA.
10	10 35 35*	6.1 S	147.2 E	80		EAST NEW GUINEA REGION.
10	11 22 54*	56.7 N	161.3 E	33	4.4	NEAR EAST COAST OF KAMCHATKA.
10	12 45 16*	31.6 N	132.3 E	169	4.7	SOUTHEAST OF SHIKOKU, JAPAN.
10	15 47 49.3	32.6 N	49.1 E	28	5.3	WESTERN IRAN.
10	16 34 15.5	3.7 S	136.5 E	14	5.4	WEST NEW GUINEA.
10	17 13 03.9	29.8 N	92.2 E	69	4.6	TIBET.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
10	19 13 25*	12.5 N	90.3 W	33	4.2	OFF COAST OF CENTRAL AMERICA.
10	19 26 40.8	47.5 N	23.6 W	31	4.3	NORTH ATLANTIC OCEAN.
11	02 01 47*	56.9 N	161.0 E	33	4.5	NEAR EAST COAST OF KAMCHATKA.
11	03 31 41*	56.7 N	161.3 E	33	4.4	NEAR EAST COAST OF KAMCHATKA.
11	05 25 07.6	30.7 N	131.3 E	33	4.6	KYUSHU, JAPAN.
11	05 59 32*	53.8 N	160.8 E	33	4.1	NEAR EAST COAST OF KAMCHATKA.
11	06 17 06*	44.6 N	148.6 E	33	4.3	KURILE ISLANDS.
11	07 54 58*	57.1 N	161.7 E	33	4.8	KAMCHATKA.
11	08 01 26.1	59.4 N	144.6 W	10	5.2	GULF OF ALASKA.
11	09 18 34*	56.7 N	161.4 E	33	4.9	NEAR EAST COAST OF KAMCHATKA.
11	10 16 18*	56.8 N	161.2 E	33	4.5	NEAR EAST COAST OF KAMCHATKA.
11	11 19 39*	23.7 S	178.0 W	332	4.3	SOUTH OF FIJI ISLANDS.
11	13 11 23*	56.5 N	161.5 E	33	4.5	NEAR EAST COAST OF KAMCHATKA.
11	13 17 37.5	56.6 N	161.4 E	33	5.4	NEAR EAST COAST OF KAMCHATKA.
11	14 11 05*	29.4 S	178.2 W	89	4.1	KERMADEC ISLANDS REGION.
11	14 37 22.6	56.8 N	161.1 E	33	4.7	NEAR EAST COAST OF KAMCHATKA.
11	14 59 36*	56.9 N	161.7 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
11	15 40 18.0	56.6 N	161.4 E	33	5.1	NEAR EAST COAST OF KAMCHATKA.
11	16 32 24.5	56.5 N	161.2 E	33	5.0	NEAR EAST COAST OF KAMCHATKA.
11	16 45 09*	20.0 N	108.9 W	33	4.6	REVILLA GIGEDO ISLANDS REGION.
11	16 57 24.4	56.6 N	161.4 E	33	5.2	NEAR EAST COAST OF KAMCHATKA.
11	17 18 43*	19.8 N	108.9 W	33	3.9	REVILLA GIGEDO ISLANDS REGION.
11	17 23 18*	55.8 N	161.0 E	33	4.4	NEAR EAST COAST OF KAMCHATKA.
11	17 26 25*	56.8 N	161.8 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
11	17 28 50.5	56.6 N	161.4 E	33	5.1	NEAR EAST COAST OF KAMCHATKA.
11	17 53 19.3	56.5 N	161.3 E	33	4.9	NEAR EAST COAST OF KAMCHATKA.
11	18 18 52.7	56.5 N	161.3 E	33	5.3	NEAR EAST COAST OF KAMCHATKA.
11	18 37 20*	19.6 N	109.0 W	33	4.4	REVILLA GIGEDO ISLANDS REGION.
11	18 48 56.6	13.4 S	75.0 W	99	5.0	PERU.
11	19 06 57.1	56.5 N	161.3 E	33	5.6	NEAR EAST COAST OF KAMCHATKA.
11	19 13 39.3	56.6 N	161.3 E	33	5.2	NEAR EAST COAST OF KAMCHATKA.
11	19 16 57*	38.7 N	140.1 E	89	4.4	HONSHU, JAPAN.
11	21 28 03.0	13.7 S	167.2 E	135	3.9	NEW HEBRIDES ISLANDS.
11	23 38 47.2	11.9 N	143.1 E	33	4.7	SOUTH OF MARIANA ISLANDS.
12	00 55 26*	33.2 S	179.9 W	74	4.2	SOUTH OF KERMADEC ISLANDS.
12	01 12 08*	33.0 S	179.7 E	8	5.2	SOUTH OF KERMADEC ISLANDS.
12	05 16 26.2	47.1 N	146.6 E	328	4.8	NORTHWEST OF KURILE ISLANDS.
12	05 33 29*	18.2 S	176.4 W	107	5.2	FIJI ISLANDS REGION.

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NOV	H M S	DEG	DEG	KM		
12	09 25 54.1	16.7 S	174.6 W	190	4.8	TONGA ISLANDS.
12	12 13 34.6	18.0 S	69.8 W	80	4.8	NORTHERN CHILE.
12	13 21 13*	29.1 S	178.3 W	136	3.7	KERMADEC ISLANDS REGION.
12	13 34 19*	27.0 N	127.1 E	33	3.9	RYUKYU ISLANDS.
12	13 57 58.8	36.7 N	139.0 E	38	4.8	HONSHU, JAPAN. FELT IN TOKYO AREA.
12	19 57 37.0	42.1 N	142.5 E	69	5.0	HOKKAIDO, JAPAN REGION.
12	20 07 25.4	37.7 N	118.0 W	20	3.8	CALIFORNIA-NEVADA BORDER REGION.
12	23 14 30*	16.7 N	145.6 E	73	5.0	MARIANA ISLANDS.
13	00 35 49*	18.5 S	177.1 W	329	4.2	FIJI ISLANDS REGION.
13	01 38 30.6	6.6 S	131.0 E	53	4.0	TANIMBAR ISLANDS REGION.
13	05 05 10.8	37.6 N	118.0 W	20	4.2	CALIFORNIA-NEVADA BORDER REGION.
13	08 02 38.5	13.0 N	88.6 W	86	4.9	EL SALVADOR. FELT AT SAN SALVADOR.
13	13 28 03*	7.4 S	125.4 E	368		BANDA SEA.
13	15 15 27.4	18.1 S	178.4 W	574	4.5	FIJI ISLANDS REGION.
13	21 57 30*	29.2 S	178.1 W	77	5.4	KERMADEC ISLANDS REGION.
13	23 09 54*	44.8 N	111.0 W	10	4.1	HEBGEN LAKE REGION.
14	03 32 52.5	23.5 S	64.2 W	65	4.3	JUJUY PROVINCE, ARGENTINA.
14	03 56 06.0	33.6 N	131.6 E	60	5.3	KYUSHU, JAPAN. FELT IN WESTERN JAPAN.
14	05 56 47.8	36.6 N	140.3 E	90	4.9	NEAR EAST COAST OF HONSHU, JAPAN.
14	10 42 15*	60.2 N	149.4 W	47	3.7	KENAI PENINSULA, ALASKA.
14	10 53 01*	40.0 S	144.3 E	33		BASS STRAIT. FELT ON KING ISLAND AND IN NORTHWESTERN TASMANIA.
14	12 52 46.3	18.2 N	105.5 W	33	5.3	OFF COAST OF JALISCO, MEXICO.
14	16 12 16*	10.3 S	119.9 E	33		SUMBA ISLAND REGION.
14	16 54 50.7	5.3 S	146.8 E	228	4.3	EAST NEW GUINEA REGION.
14	18 49 41*	18.5 S	168.8 E	89		NEW HEBRIDES ISLANDS.
14	19 06 14.6	18.1 S	168.0 E	5	4.4	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
15	00 15 59*	32.4 N	118.5 W	20	4.5	OFF COAST OF CALIFORNIA.
15	00 31 32*	18.5 N	105.6 W	33	4.4	OFF COAST OF JALISCO, MEXICO.
15	00 55 36.7	36.1 N	139.6 E	71	4.9	HONSHU, JAPAN. FELT IN TOKYO AREA.
15	02 26 07*	19.2 N	108.9 W	33	3.7	REVILLA GIGEDO ISLANDS REGION.
15	04 34 30.3	9.4 N	126.3 E	62	5.5	MINDANAO, PHILIPPINE ISLANDS.
15	06 33 23.5	35.6 N	45.7 E	33	4.7	IRAN-IRAQ BORDER REGION.
15	06 38 13*	37.8 S	72.4 W	79	4.1	CENTRAL CHILE.
15	07 22 08.0	18.0 S	178.3 W	608	4.2	FIJI ISLANDS REGION.
15	09 33 46.7	29.9 N	51.0 E	33		SOUTHERN IRAN.
15	14 12 49.6	17.9 N	105.9 W	33	4.1	OFF COAST OF JALISCO, MEXICO.
15	15 42 34.4	17.8 N	105.9 W	33	4.5	OFF COAST OF JALISCO, MEXICO.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
15	15 52 21.5	24.0 N	122.2 E	42	5.4	TAIWAN REGION.
15	16 45 44.8	49.5 S	163.6 E	33		AUCKLAND ISLANDS REGION.
15	17 12 43.9	36.5 N	70.9 E	220	5.0	HINDU KUSH REGION.
15	17 34 10.0	17.4 S	169.1 E	222		NEW HEBRIDES ISLANDS.
15	20 03 49.6	34.9 N	5.2 W	3	5.0	MOROCCO. FELT WIDELY IN MEKNES AREA.
15	23 57 21*	47.2 N	147.3 E	297	4.8	NORTHWEST OF KURILE ISLANDS.
16	02 46 43*	36.9 N	121.8 W	33	5.2	CENTRAL CALIFORNIA. SLIGHT DAMAGE AT MORGAN HILL, CORRALITOS, SANTA CRUZ AND SAN JOSE. FELT WIDELY. MAG. 5.2 (PAS), 5-5 1/4 (BRK).
16	04 47 27.5	36.3 N	70.4 E	225	5.5	HINDU KUSH REGION.
16	05 27 33.8	39.8 N	39.9 E	39	5.1	TURKEY.
16	05 59 57.4	49.7 N	78.0 E	0	6.0	EASTERN KAZAKH SSR.
16	08 54 09*	56.1 S	27.5 W	163	4.9	SOUTH SANDWICH ISLANDS REGION.
16	09 34 42*	22.8 S	171.6 E	25		LOYALTY ISLANDS REGION.
16	12 16 19.3	47.1 N	154.1 E	33	4.4	KURILE ISLANDS.
16	12 38 29.7	47.4 N	154.2 E	33	5.7	KURILE ISLANDS.
16	13 50 58.5	48.3 N	154.6 E	33	4.7	KURILE ISLANDS.
16	16 53 18*	16.5 N	98.0 W	103	4.3	NEAR COAST OF GUERRERO, MEXICO.
16	18 21 14.5	50.0 N	156.5 E	33	4.7	KURILE ISLANDS.
16	20 35 06*	51.6 N	178.5 E	33	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
16	21 37 31.0	30.9 S	66.8 W	33	4.3	LA RIOJA PROVINCE, ARGENTINA.
16	22 09 48*	85.8 N	88.3 E	33	4.5	NORTH OF SEVERNAYA ZEMLYA.
16	22 40 44.0	1.0 N	118.8 E	33	6.7	BORNEO.
16	23 05 29.2	15.8 S	173.0 W	12	4.8	TONGA ISLANDS.
17	00 01 17.1	16.3 S	173.7 W	33	5.4	TONGA ISLANDS. FELT ON TONGA ISLANDS AND AT APIA, WESTERN SAMOA.
17	01 26 26*	27.5 N	55.0 E	45		SOUTHERN IRAN.
17	02 46 35*	55.5 S	27.9 W	115	5.0	SOUTH SANDWICH ISLANDS REGION.
17	08 08 56.7	23.5 S	175.7 W	320	4.4	TONGA ISLANDS REGION.
17	08 15 39.3	5.7 S	150.7 E	45	6.7	NEW BRITAIN REGION. FELT STRONGLY. MAG. 7 1/4 (PAS), 7-7 1/4 (BRK).
17	10 11 00.1	44.6 N	110.9 W	33	3.9	YELLOWSTONE NATIONAL PARK, WYO.
17	11 03 06.8	23.4 S	179.9 W	549	5.5	SOUTH OF FIJI ISLANDS.
17	14 37 53*	3.5 S	150.1 E	33	5.0	NEW IRELAND REGION.
17	14 52 26.5	33.8 N	116.5 W	14	4.5	SOUTHERN CALIFORNIA. FELT AT PALM SPRINGS. MAG. 4-4 1/2 (BRK).
17	16 17 03.0	13.2 N	89.6 W	54	4.5	EL SALVADOR. FELT AT SAN SALVADOR.
17	17 40 57.4	0.1 S	122.9 E	160	5.4	NORTHERN CELEBES.
17	19 00 10.4	12.7 N	144.9 E	43	5.1	SOUTH OF MARIANA ISLANDS.
17	22 50 53.7	36.7 N	35.2 E	37	4.5	TURKEY.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
18	00 11 56*	10.3 S	75.9 W	24	4.3	PERU.
18	03 24 53.9	9.6 S	116.8 E	82	4.8	SUMBAWA ISLAND REGION.
18	04 03 58.0	13.1 S	75.0 W	80	4.3	PERU.
18	05 01 41.4	31.2 S	67.6 W	8	5.6	SAN JUAN PROVINCE, ARGENTINA.
18	10 26 50*	44.1 N	114.1 W	33	3.6	WESTERN IDAHO.
18	13 21 47.2	51.7 N	174.2 W	12	5.3	ANDREANOF ISLANDS, ALEUTIAN IS.
18	14 34 54.5	6.0 S	148.2 E	49	6.1	NEW BRITAIN REGION. FELT. MAG. 5 (BRK).
18	22 21 01.9	20.2 S	174.1 W	33	5.8	TONGA ISLANDS.
18	23 35 03.9	20.1 S	174.3 W	33	5.1	TONGA ISLANDS.
19	03 30 25.9	19.2 S	169.3 E	147	4.3	NEW HEBRIDES ISLANDS.
19	14 07 21.5	56.0 N	161.3 E	33	4.7	NEAR EAST COAST OF KAMCHATKA.
19	15 45 31.2	3.4 S	150.1 E	38	5.7	NEW IRELAND REGION.
19	16 15 26.2	10.8 S	166.3 E	166	4.9	SANTA CRUZ ISLANDS.
19	23 35 06.0	6.0 S	150.8 E	3	6.0	NEW BRITAIN REGION. SLIGHT DAMAGE AT WALINDI. MAG. 6 3/4 (PAS), 6 3/4 (BRK).
19	23 55 06.8	6.9 S	149.9 E	33	5.6	NEW BRITAIN REGION.
20	00 56 21*	0.6 N	156.3 E	33	4.3	CAROLINE ISLANDS REGION.
20	01 23 40.6	6.2 S	150.4 E	61	5.2	NEW BRITAIN REGION.
20	01 35 38*	5.5 S	150.1 E	91		NEW BRITAIN REGION.
20	03 01 52.3	6.2 S	150.5 E	44	5.1	NEW BRITAIN REGION.
20	04 50 55.3	59.6 N	148.2 W	33	4.9	KENAI PENINSULA, ALASKA.
20	09 50 13.5	0.2 S	18.2 W	33	5.1	CENTRAL MID-ATLANTIC RIDGE.
20	10 30 36*	5.0 S	77.8 W	292	3.7	NORTHERN PERU.
20	16 20 04*	8.9 S	123.6 E	33		FLORES ISLAND REGION.
20	16 34 43*	35.9 N	138.9 E	86	4.4	HONSHU, JAPAN. FELT AT TOKYO.
20	19 05 09.7	6.9 S	129.7 E	126	4.7	BANDA SEA.
20	19 21 10.0	4.9 S	145.4 E	152	5.8	NEAR NORTH COAST OF NEW GUINEA. FELT AT MINJ.
20	21 27 39.5	63.7 N	146.5 W	80	4.6	CENTRAL ALASKA.
20	23 33 08.9	44.6 N	149.7 E	33	5.6	KURILE ISLANDS.
20	23 51 35.4	44.6 N	149.5 E	33	4.9	KURILE ISLANDS.
21	01 35 35.5	6.7 S	154.3 E	103	4.9	SOLOMON ISLANDS.
21	02 16 44.5	1.0 N	124.0 E	248	5.8	NORTHERN CELEBES.
21	04 01 02.0	1.9 N	96.8 E	33	5.2	OFF W. COAST OF NORTHERN SUMATRA.
21	06 19 16.0	14.9 S	167.2 E	97	5.1	NEW HEBRIDES ISLANDS. FELT AT SANTO.
21	09 49 20*	27.9 S	68.1 W	33	4.2	CHILE-ARGENTINA BORDER REGION.
21	11 57 00.3	19.9 S	70.4 W	118	4.4	NEAR COAST OF NORTHERN CHILE.
21	12 40 56*	44.4 N	149.7 E	60	4.3	KURILE ISLANDS.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
21	12 41 47.8	6.2 S	150.5 E	43	4.9	NEW BRITAIN REGION.
21	13 27 34.0	24.2 N	122.4 E	60	4.8	TAIWAN REGION.
21	13 55 42.8	17.9 N	105.8 W	33	3.8	OFF COAST OF JALISCO, MEXICO.
21	14 31 13.9	13.1 N	144.4 E	61	4.5	MARIANA ISLANDS.
21	15 34 13.2	12.8 N	145.2 E	35	5.2	SOUTH OF MARIANA ISLANDS.
21	17 24 24.1	4.8 S	76.6 W	107	4.4	NORTHERN PERU.
21	17 25 58*	32.8 N	116.0 W	14	4.7	CALIFORNIA-MEXICO BORDER REGION. MAG. 4 (BRK).
21	18 09 32*	41.4 N	142.9 E	140	3.8	HOKKAIDO, JAPAN REGION.
21	22 40 11.6	4.9 S	103.6 E	33	5.4	SOUTHERN SUMATRA.
21	23 26 22.3	5.7 S	150.8 E	59	4.9	NEW BRITAIN REGION.
22	00 02 33.3	24.0 N	45.4 W	33	4.7	NORTH ATLANTIC RIDGE.
22	02 28 17*	33.9 N	24.9 E	33	4.2	MEDITERRANEAN SEA.
22	02 38 29.0	17.9 S	178.5 W	563	5.0	FIJI ISLANDS REGION.
22	02 40 55.9	22.1 S	171.1 E	106	5.3	LOYALTY ISLANDS REGION.
22	05 10 41*	6.2 S	150.4 E	39	4.7	NEW BRITAIN REGION. FELT AT WALINDI.
22	05 24 01.6	22.9 S	65.7 W	135	4.1	JUJUY PROVINCE, ARGENTINA.
22	05 46 33.3	6.2 S	150.4 E	47	5.4	NEW BRITAIN REGION.
22	09 00 57.0	6.1 S	150.4 E	50	4.9	NEW BRITAIN REGION.
22	09 25 15.8	3.4 S	130.7 E	33	5.4	CERAM.
22	17 52 23.0	6.4 S	150.6 E	48	5.1	NEW BRITAIN REGION.
22	18 40 41.8	4.9 S	151.9 E	86	5.0	NEW BRITAIN REGION.
22	20 11 53.0	18.8 N	101.4 W	123	4.5	GUERRERO, MEXICO.
22	21 46 32.0	30.8 N	140.7 E	82	4.1	SOUTH OF HONSHU, JAPAN.
22	22 12 00*	32.5 N	48.8 E	39		WESTERN IRAN.
23	04 17 13*	8.1 S	108.4 E	33	4.6	JAVA.
23	04 45 58*	45.4 N	150.8 E	45	4.8	KURILE ISLANDS.
23	06 57 58.5	41.9 N	86.1 E	33	4.9	SOUTHERN SINKIANG PROV., CHINA.
23	09 01 11.0	6.5 S	150.7 E	63	4.9	NEW BRITAIN REGION.
23	10 26 30*	20.5 S	70.0 W	10	4.2	NEAR COAST OF NORTHERN CHILE.
23	10 47 16.6	31.5 S	72.0 W	68	4.5	OFF COAST OF CENTRAL CHILE.
23	13 15 02*	63.5 N	157.0 W	33	4.3	CENTRAL ALASKA.
23	18 55 35.3	36.7 N	140.7 E	81	4.6	NEAR EAST COAST OF HONSHU, JAPAN.
23	19 07 10*	19.1 N	145.0 E	220	4.0	MARIANA ISLANDS.
23	19 45 09.0	56.0 S	27.6 W	33	5.5	SOUTH SANDWICH ISLANDS REGION.
23	22 15 47.0	0.1 S	124.5 E	66	5.7	MOLUCCA SEA.
23	23 52 11.2	37.6 N	118.0 W	10		CALIFORNIA-NEVADA BORDER REGION.
23	23 52 29.7	37.6 N	118.0 W	10	4.2	CALIFORNIA-NEVADA BORDER REGION. FELT AT DYER, NEVADA. MAG. 4.2 (PAS), 4 1/4 (BRK).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
24	01 30 35*	36.1 S	69.8 W	92	4.5	MENDOZA PROVINCE, ARGENTINA.
24	01 38 49.6	6.3 S	150.7 E	33	5.5	NEW BRITAIN REGION.
24	02 32 29*	25.0 N	125.0 E	33	4.5	SOUTHWESTERN RYUKYU ISLANDS.
24	03 01 08*	45.3 N	111.7 W	10	3.9	MONTANA. FELT AT ENNIS.
24	05 48 32.8	8.2 S	122.6 E	33	5.1	FLORES ISLAND REGION.
24	06 35 14.5	20.2 S	179.2 W	660	4.8	FIJI ISLANDS REGION.
24	09 18 46*	51.9 N	157.5 E	87	5.1	NEAR EAST COAST OF KAMCHATKA.
24	10 41 33.5	6.8 S	107.4 E	125	6.0	JAVA.
24	12 40 51.4	13.1 N	124.7 E	5	6.1	LUZON, PHILIPPINE ISLANDS. MAG. 6 1/4 (PAS), 5 1/2-6 (BRK).
24	12 50 40.2	13.2 N	124.9 E	97	5.0	LUZON, PHILIPPINE ISLANDS.
24	14 48 47*	24.6 S	179.5 W	406	4.2	SOUTH OF FIJI ISLANDS.
24	21 32 20.6	13.3 N	124.7 E	63	4.9	LUZON, PHILIPPINE ISLANDS.
24	23 51 20*	23.2 S	176.0 W	33	4.7	SOUTH OF FIJI ISLANDS.
25	02 50 05*	37.4 N	81.5 W	0	4.5	WEST VIRGINIA. COAL MINE ROCKBURST NEAR COALWOOD, WEST VIRGINIA.
25	04 35 56.7	20.6 S	69.6 W	78	4.5	NORTHERN CHILE.
25	07 35 41*	51.4 N	178.8 E	33	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
25	08 31 32.9	16.1 S	175.1 W	302	4.7	TONGA ISLANDS.
25	08 32 59.0	26.6 N	96.3 E	80	5.4	BURMA.
25	09 24 08.9	4.3 S	122.2 E	610	6.2	CELEBES.
25	11 45 54.1	38.9 N	71.0 E	85	4.8	AFGHANISTAN-USSR BORDER REGION.
25	12 45 20*	55.1 N	162.6 E	79	4.5	NEAR EAST COAST OF KAMCHATKA.
25	13 02 41.7	9.5 S	158.8 E	38	5.4	SOLOMON ISLANDS.
25	19 35 16.4	5.2 S	125.2 E	430	5.1	BANDA SEA.
26	00 59 04.5	34.7 N	25.9 E	80		CRETE.
26	04 48 55*	33.1 N	49.0 E	33	4.7	WESTERN IRAN.
26	04 50 33*	6.8 N	73.0 W	167	3.9	NORTHERN COLOMBIA.
26	06 55 25*	28.0 S	177.0 W	33	4.2	KERMADEC ISLANDS.
26	10 21 07.2	24.9 N	122.0 E	33	5.4	TAIWAN REGION. FELT AT TAIPEI. MAG. 6-6 1/4 (PAL).
26	14 19 47.6	24.9 N	122.0 E	33	5.2	TAIWAN REGION.
26	16 33 01*	46.3 N	13.5 E	33		AUSTRIA. FELT
26	16 36 50.6	58.7 N	152.0 W	33	5.4	KODIAK ISLAND REGION.
27	03 37 03*	65.3 N	151.4 W	33	4.2	ALASKA.
27	05 36 01.5	45.2 N	150.9 E	33	5.1	KURILE ISLANDS.
27	07 47 07.6	62.6 N	151.5 W	113	5.4	CENTRAL ALASKA. MAG. 4 1/2-4 3/4 (BRK).
27	10 55 11*	13.4 N	88.7 W	33	4.1	EL SALVADOR.
27	11 03 48.0	36.3 N	70.7 E	219	5.2	HINDU KUSH REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
NOV	H M S	DEG	DEG	KM		
27	13 47 42.7	37.9 N	138.3 E	36	5.5	NEAR WEST COAST OF HONSHU, JAPAN. FELT WIDELY.
27	14 27 56*	7.7 N	36.9 W	33	4.7	CENTRAL MID-ATLANTIC RIDGE.
27	18 44 27.1	29.7 N	42.0 W	33	4.7	NORTH ATLANTIC RIDGE.
27	20 27 06*	6.0 S	150.4 E	37		NEW BRITAIN REGION.
27	23 50 38.4	15.8 N	89.4 W	33	4.0	GUATEMALA.
28	11 00 23*	23.3 S	177.6 W	157	3.5	SOUTH OF FIJI ISLANDS.
28	12 51 07.1	35.5 N	140.7 E	72	4.7	NEAR EAST COAST OF HONSHU, JAPAN. FELT AT TOKYO.
28	16 41 33.4	7.7 S	71.2 W	626	5.4	WESTERN BRAZIL. MAG. 5 (BRK).
28	16 49 30.3	8.0 S	71.4 W	655	5.6	WESTERN BRAZIL. MAG. 5 1/4 (BRK).
28	19 35 48*	19.0 N	64.6 W	33		VIRGIN ISLANDS.
29	03 05 03*	23.7 S	179.9 E	600	4.1	SOUTH OF FIJI ISLANDS.
29	03 24 28.8	3.6 S	80.6 W	33	4.8	PERU-ECUADOR BORDER REGION.
29	06 20 10*	19.4 S	169.2 E	324	4.9	NEW HEBRIDES ISLANDS.
29	07 20 46*	16.7 N	99.0 W	33	4.1	NEAR COAST OF GUERRERO, MEXICO.
29	09 11 05.8	6.8 N	73.2 W	171	4.9	NORTHERN COLOMBIA.
29	12 26 29.6	4.6 N	77.6 W	44	4.3	NEAR WEST COAST OF COLOMBIA.
29	14 25 24*	32.9 N	115.6 W	14	4.5	CALIFORNIA-MEXICO BORDER REGION. MAG. 4 1/4 (PAS).
29	15 52 18.4	5.5 S	146.2 E	48	5.0	EAST NEW GUINEA REGION.
29	16 54 25.8	55.5 S	26.0 W	33	5.6	SOUTH SANDWICH ISLANDS REGION.
29	17 08 25.7	4.8 S	79.3 W	81	4.6	PERU-ECUADOR BORDER REGION.
29	20 56 39.2	31.0 N	141.2 E	33	4.9	SOUTH OF HONSHU, JAPAN.
29	23 07 42*	80.2 N	4.1 W	33	4.3	NORTH OF SVALBARD.
30	00 15 57*	38.9 S	72.4 W	87	4.5	CENTRAL CHILE. FELT AT VALDIVIA.
30	04 11 42.9	71.8 N	2.7 W	33	4.5	JAN MAYEN ISLAND REGION.
30	06 25 15.7	13.8 N	120.7 E	203	4.9	MINDORO, PHILIPPINE ISLANDS.
30	09 46 56*	18.3 N	69.3 W	33		DOMINICAN REPUBLIC REGION.
30	10 10 06.1	4.7 N	126.8 E	52	5.0	TALAUD ISLANDS.
30	12 24 09.4	6.2 N	93.7 E	33		NICOBAR ISLANDS REGION.
30	12 27 38.6	6.8 N	94.8 E	33	5.7	NICOBAR ISLANDS REGION. MAG. 6 1/2-6 3/4 (PAL).
30	16 07 30*	23.8 S	179.3 E	481	4.8	SOUTH OF FIJI ISLANDS.
30	17 59 07.7	6.4 S	150.9 E	37	4.4	NEW BRITAIN REGION.
30	18 53 11.4	24.0 S	179.9 E	550	5.5	SOUTH OF FIJI ISLANDS.
30	21 16 17*	36.9 N	121.7 W	14	3.8	CENTRAL CALIFORNIA. FELT IN WATSONVILLE AREA. MAG. 3.5 (BRK).
30	22 40 46.0	53.7 N	167.7 W	69	5.0	FOX ISLANDS, ALEUTIAN ISLANDS.

Date and Station	Phase (GCT)
	h m s
NOV 01	
COL E	00 59 10.1
NOV 01	
EUR EP	01 47 20.9
I	48 51.5
NOV 01	
COL E(P)	02 43 42.1
NOV 1	
H-02 56 41.4	
25.1S 179.7W	
h ABOUT 459KM	
BCN EP	03 08 34.7
TUC IP C	03 08 39.2
EUR IP	03 08 40.5
GCA IP	03 08 48.0
ALQ IP	03 08 58.8
E>P	10 44.5
COL EP	03 09 04.0
E>P	10 54.0
BOZ E(P)	03 09 08.0
NOV 01	
COL E(P)	03 29 52.3
NOV 01	
COL IP	03 51 58.5
NOV 01	
COL E(P)	04 14 38.7
NOV 1	
H-04 55 47.4	
51.8N 130.8W	
h ABOUT 033KM	
SIT E(P)	04 57 11.0
EL	58 48.0
BUT EP	04 58 53.1
BOZ EP	04 59 06.0
EL	05 02 57.0
COL EP	04 59 31.0
EUR IP	04 59 31.6
I	59 36.0
SLC EP	04 59 44.1
BCN E(P)	05 00 13.6
RCD IP	05 00 16.5
GCA EP	05 00 20.7
TUC EP	05 01 02.6
E(S)	05 28.0
ALQ IP	05 01 03.0
KIP ET	05 41 36.0

Date and Station	Phase (GCT)
	h m s
NOV 1	
H-05 15 48.4	
13.7N 120.6E	
h ABOUT 094KM	
COL IP	05 27 40.0
NOV 01	
COL IP	05 32 54.0
NOV 01	
ALQ I(P)	05 41 54.3
NOV 01	
COL E(P)	06 05 21.3
NOV 1	
H-06 46 54.1	
51.7N 175.4W	
h ABOUT 020KM	
COL IP	06 51 21.2
ESCP	59 10.0
BOZ EP	06 54 40.4
EUR IP	06 54 48.1
BCN E(P)	06 55 11.1
RCD EP	06 55 25.5
E	55 30.5
TUC EP	06 55 48.9
ALQ I(P)	06 55 56.0
KIP ET	07 28 17.0
NOV 01	
COL EP	07 57 48.0
NOV 1	
H-10 03 28.6	
34.7S 108.5W	
h ABOUT 033KM	
TUC E(P)	10 14 18.0
ALQ E(P)	10 14 34.6
BCN E(P)	10 14 43.0
EUR EP	10 15 04.7
NOV 01	
COL EP	10 14 02.0
NOV 01	
COL E	11 34 36.8
NOV 01	
COL IP	12 05 19.2
NOV 1	
H-12 26 06.2	
03.1N 128.1E	
h ABOUT 065KM	
GUA IP	12 30 32.0
ES	34 10.0

Date and Station	Phase (GCT)
	h m s
HON EP	12 37 39.0
ES	47 08.0
ESCS	47 38.0
EL	56 33.0
KIP EP	12 37 39.0
ES	47 08.0
EL	56 33.0
COL IP	12 38 34.3
BCN E(P)	12 40 33.8
EUR EP'	12 44 24.1
BOZ EP'	12 44 29.9
BCN EP'	12 44 35.5
E(SKS)	55 36.5
RCD EP'	12 44 40.5
TUC EP'	12 44 41.0
E(SKS)	55 21.4
E	55 28.5
ALQ IP'	12 44 46.6
ISKS	55 18.0
BHP IP'	12 45 52.0
NOV 01	
COL EP	12 45 09.0
NOV 01	
COL EP	12 59 13.0
NOV 01	
COL E(P)	13 05 01.8
NOV 01	
EUR E(P)	14 47 05.0
NOV 01	
TUC E(P)	15 10 03.6
I	10 17.9
BCN EP	15 10 33.5
IL	12 10.5
ALQ E(P)	15 11 16.0
NOV 01	
TUC E(P)	15 15 07.2
E	15 13.4
I	15 46.3
BCN EP	15 16 04.0
EL	17 35.5
NOV 01	
ALQ E(P)	15 16 37.5
NOV 01	
COL EP	15 24 23.7
NOV 01	
COL EP	17 08 17.0
HHM E(P)	17 10 53.6
E	11 01.7
NOV 01	
EUR E(P)	17 46 05.0

Date and Station	Phase (GCT)
	h m s
NOV 01	
ALQ E(P)	17 57 25.0
NOV 01	
TUC E(P)	18 37 03.2
E	37 06.5
E(L)	37 44.8
NOV 01	
TUC E(P)	18 42 46.5
NOV 01	
COL EP	18 59 17.0
NOV 01	
EUR IP	19 02 08.5
BCN EP	19 02 22.5
EL	03 09.5
GCA E(P)	19 03 02.0
NOV 01	
BCN I(P)	19 03 19.5
EL	04 09.0
SLC E(P)	19 04 08.2
ALQ E(P)	19 04 17.0
TUC E(P)	19 04 22.4
E	06 47.0
BOZ E(P)	19 04 42.3
BUT E(P)	19 04 43.0
NOV 01	
EUR EP	19 20 09.1
NOV 01	
COL IP	20 17 41.5
NOV 01	
COL IP	20 19 53.3
NOV 01	
COL EP	20 24 10.0
NOV 01	
TUC E(P)	20 39 37.1
E	40 02.2
NOV 1	
H-20 41 07.0	
38.0N 117.8W	
h ABOUT 033KM	
EUR IP	20 41 39.3
BCN EP	20 41 54.5
EL	42 35.5
NOV 01	
COL E(P)	21 47 13.7
ALQ E(P)	21 48 08.5
NOV 01	
EUR IP	22 17 13.7
NOV 01	
EUR IP	22 27 17.3

Date and Station	Phase	(GCT)
		h m s
TUC	E(P)	22 27 39.4
	E(L)	28 18.0
NOV 01		
TUC	E(P)	22 38 04.8
NOV 01		
COL	E(P)	23 40 57.5
NOV 01		
COL	EP	23 54 08.7
NOV 02		
BOZ	EP	00 11 23.8
COL	E(P)	00 12 47.1
NOV 02		
BCN	IP D	01 15 55.8
EUR	EP	01 16 49.9
NOV 02		
COL	EP	01 30 00.3
NOV 02		
TUC	E(P)	02 49 40.8
NOV 02		
TUC	E(P)	02 54 29.0
	E	54 33.5
NOV 02		
EUR	EP	03 13 47.2
	I	13 54.0
NOV 02		
COL	E	03 50 08.3
NOV 02		
COL	EP	04 17 57.3
NOV 02		
HHM	EP	04 58 29.1
NOV 2		
H-05 03 52.3		
7.5S 128.7E		
h ABOUT 048KM		
ALQ	IP'	05 22 45.8
NOV 02		
COL	E(P)	05 34 07.0
NOV 02		
COL	E(P)	05 56 19.9
NOV 02		
EUR	IP	05 58 42.4
NOV 02		
COL	E	06 27 08.0
NOV 02		
COL	E(P)	06 27 50.0
NOV 2		
H-06 50 58.2		
4.1S 076.9W		
h ABOUT 091KM		
BHP	IP	06 54 05.0
	I	54 42.0
CSC	IP	06 58 11.0
	E(pP)	58 39.0
	E(sP)	58 55.0
	EPCP	07 00 24.0
ALQ	IP	06 59 29.8
	I>P	59 53.0
TUC	IP D	06 59 33.8
	E>P	59 56.5
	ES	07 06 27.0
GCA	IP	07 00 01.9
RCD	IP	07 00 11.5
	E>P	00 39.0
BCN	IP D	07 00 11.7
	E>P	00 34.5
SLC	IP	07 00 21.7
	I>P	00 45.9
EUR	IP	07 00 32.5
BOZ	IP D	07 00 45.7
	E>P	01 09.5
BUT	IP D	07 00 49.5
	E>P	01 14.5
HHM	IP	07 01 07.3
	I>P	01 35.9
COL	IP	07 03 27.5
	I>P	03 57.6
NOV 02		
HHM	IP	06 54 17.6
	E	56 29.4
NOV 02		
EUR	IP	06 56 34.6
BCN	E(P)	06 56 46.5
	EL	57 31.0
NOV 2		
H-07 00 50.8		
41.1N 088.3E		
h ABOUT 033KM		
COL	EP	07 11 33.4
ALQ	E(P)	07 14 51.0
NOV 2		
H-07 07 57.8		
11.8N 086.9W		
h ABOUT 117KM		
TUC	E(P)	07 14 04.0
BOZ	EP	07 15 21.3
NOV 02		
COL	E(P)	07 22 00.6
NOV 02		
ALQ	E(P)	07 37 09.0
NOV 02		
COL	EP	08 22 58.2
EUR	IP	08 26 26.8
NOV 02		
COL	E	08 41 22.9
NOV 02		
COL	E	08 46 23.9
NOV 02		
COL	EP	09 15 34.0
NOV 2		
H-09 18 01.6		
05.8S 105.4E		
h ABOUT 039KM		
BOZ	EP'	09 37 09.6
ALQ	EP'	09 37 29.3
NOV 02		
COL	EP	10 18 15.6
NOV 02		
EUR	EP	11 05 47.0
BCN	EP	11 06 02.5
	EL	06 41.0
NOV 2		
H-11 38 55.7		
37.6N 118.0W		
h ABOUT 032KM		
EUR	IP	11 39 33.5
BCN	EP	11 39 44.5
	I	39 47.4
	IL	40 37.0
GCA	EP	11 40 16.0
SLC	E(P)	11 40 17.9
	E	40 42.9
TUC	EP	11 40 50.0
	E(L)	43 14.5
BOZ	EP	11 41 12.0
ALQ	EP	11 41 20.0
	I	41 54.9
NOV 02		
EUR	EP	11 50 05.4
NOV 2		
H-11 50 58.1		
44.5N 149.7E		
h ABOUT 033KM		
COL	IP	11 58 27.4
EUR	E(P)	12 01 45.6
NOV 02		
EUR	EP	11 54 54.7
	I	55 49.4
NOV 02		
EUR	IP	12 08 24.4
	I	09 41.6
NOV 02		
EUR	EP	12 26 40.8
NOV 02		
COL	E(P)	12 32 52.3
NOV 02		
HHM	E(P)	12 40 13.6
NOV 02		
COL	E	12 52 27.4
NOV 02		
EUR	EP	13 18 14.6
NOV 02		
COL	E(P)	13 30 23.3
NOV 02		
EUR	IP	13 30 47.3
BCN	E(P)	13 31 00.5
	EL	31 47.0
NOV 02		
EUR	EP	14 05 14.7
BCN	E(P)	14 05 28.4
	EL	06 13.4
NOV 02		
EUR	EP	14 30 29.8
NOV 02		
EUR	EP	14 34 53.4
NOV 02		
COL	E	15 24 23.8
NOV 02		
ALQ	E(P)	16 14 12.9
NOV 02		
COL	EP	16 30 03.9
EUR	EP	16 30 47.8
NOV 02		
EUR	EP	16 35 38.1
NOV 02		
COL	EP	16 42 32.0
NOV 02		
TUC	E(P)	16 50 44.7
NOV 02		
COL	EP	17 04 20.0
NOV 02		
COL	E(P)	17 43 34.6
NOV 02		
COL	E(P)	17 51 56.4
NOV 2		
H-18 37 30.0		
20.9S 178.2W		
h ABOUT 604KM		
COL	IP	18 49 19.3
NOV 02		
COL	EP	19 12 49.0

Date and Station	Phase (GCT)
	h m s
NOV 02	
GUA IP	19 16 45.2
EL	16 54.0
NOV 02	
TUC E(P)	19 54 02.0
NOV 02	
ALQ E(P)	20 07 14.0
NOV 02	
SLC E(P)	20 20 51.5
E	20 58.3
EUR EP	20 21 45.1
NOV 02	
HHM E(P)	20 28 53.9
E	29 19.2
NOV 02	
COL EP	21 27 18.0
NOV 02	
EUR EP	21 35 34.5
BCN E(P)	21 35 48.5
EL	36 39.5
NOV 02	
TUC E(P)	21 38 56.8
NOV 02	
TUC E(P)	21 44 08.6
NOV 02	
TUC EP	21 48 30.1
EL	48 49.5
ALQ EP	21 49 00.0
NOV 02	
EUR EP	21 55 18.0
I	55 52.7
NOV 02	
GUA E(P)	22 04 40.2
EL	05 01.0
NOV 02	
EUR EP	22 04 54.4
I	05 36.3
NOV 02	
EUR EP	22 22 03.2
BCN E(P)	22 22 16.3
EL	23 04.4
NOV 02	
EUR EP	22 28 05.8
NOV 02	
TUC E(P)	22 56 35.1
E	56 54.9
NOV 02	
TUC E(P)	23 03 28.1
NOV 02	
TUC EP	23 05 41.8
NOV 02	
SLC E(P)	23 13 23.8

Date and Station	Phase (GCT)
	h m s
NOV 02	
EUR EP	23 16 43.8
I	17 03.1
NOV 03	
EUR EP	00 03 02.4
NOV 03	
EUR EP	00 24 11.9
NOV 3	
H-00 29 41.8	
47.1N 144.6E	
h ABOUT 353KM	
COL IP	00 36 40.5
BOZ EP	00 39 53.5
E▸P	41 19.7
BCN EP	00 40 24.0
TUC E(P)	00 40 51.8
NOV 03	
COL EP	01 03 17.0
NOV 03	
EUR EP	01 43 05.0
NOV 3	
H-02 05 40.4	
34.5N 140.3E	
h ABOUT 086KM	
GUA EP	02 10 21.0
COL IP	02 14 39.9
HHM IP	02 17 09.9
BOZ EP	02 17 26.5
EUR IP	02 17 33.0
BCN EP	02 17 48.2
RCD EP	02 17 56.0
TUC E(P)	02 18 12.0
ALQ IP	02 18 18.6
NOV 03	
ALQ E(P)	02 11 36.5
COL E(P)	02 18 24.8
NOV 03	
EUR EP	02 25 25.0
NOV 03	
EUR IP	02 26 30.3
BCN EP	02 26 56.5
NOV 03	
EUR EP	03 32 11.6
NOV 03	
EUR EP	04 00 24.1
NOV 03	
EUR EP	04 49 33.5

Date and Station	Phase (GCT)
	h m s
BCN E(P)	04 49 46.8
EL	50 28.0
NOV 03	
EUR EP	05 49 06.6
NOV 3	
H-06 05 33.1	
31.6N 066.4E	
h ABOUT 038KM	
COL EP	06 17 41.0
NOV 03	
COL EP	06 07 20.0
NOV 3	
H-06 14 30.6	
32.4N 059.1E	
h ABOUT 033KM	
COL E(P)	06 26 43.6
NOV 03	
EUR EP	06 27 58.7
BCN E(P)	06 28 10.2
NOV 03	
COL E(P)	08 07 49.1
NOV 03	
COL EP	08 38 51.0
NOV 03	
EUR EP	08 44 13.9
BCN E(P)	08 44 35.0
EL	45 17.0
NOV 03	
BCN E(P)	09 11 23.5
EL	12 08.5
EUR EP	09 11 51.0
NOV 3	
H-09 14 40.1	
57.0N 150.9W	
h ABOUT 033KM	
COL EP	09 16 36.5
NOV 03	
TUC E(P)	09 17 47.6
ALQ E(P)	09 18 12.3
NOV 03	
ALQ E(P)	09 28 04.3
NOV 03	
EUR EP	10 04 24.8
NOV 3	
H-11 09 37.0	
34.6N 138.6E	
h ABOUT 033KM	
GUA EP	11 14 24.0
COL EP	11 18 47.0
BOZ EP	11 21 37.0

Date and Station	Phase (GCT)
	h m s
EUR IP	11 21 41.2
BCN EP	11 21 57.0
I	22 04.5
ALQ E(P)	11 22 26.0
NOV 03	
EUR EP	11 28 28.6
NOV 3	
H-12 43 04.7	
.1N 123.7E	
h ABOUT 149KM	
GUA EP	12 48 15.0
COL EP	12 55 44.0
EPP	59 15.0
EUR IP'	13 01 28.0
BOZ EP'	13 01 28.0
TUC EP'	13 01 40.5
ALQ IP'	13 01 45.4
I▸P'	02 21.7
NOV 3	
H-13 53 35.1	
50.3N 158.3E	
h ABOUT 033KM	
COL EP	13 59 54.0
ALQ E(P)	14 04 25.5
NOV 03	
BCN IP	14 20 14.5
IS	20 16.1
NOV 03	
COL E	14 50 47.1
NOV 3	
H-14 55 40.1	
44.6N 149.0E	
h ABOUT 020KM	
COL IP	15 03 12.1
BOZ EP	15 06 22.8
EUR IP	15 06 32.5
BCN EP	15 06 51.6
E	07 06.0
TUC E(P)	15 07 19.5
NOV 03	
EUR IP	15 00 56.2
NOV 03	
COL EP	16 01 09.0
NOV 03	
COL IP	17 25 30.8
NOV 3	
H-17 36 09.5	
36.0N 050.6E	
h ABOUT 033KM	

Date and Station	Phase	(GCT)
		h m s
COL	IP	17 48 08.7
NOV 3		
H-18 28 58.6		
1.7S 149.8E		
h ABOUT 035KM		
COL	IP	18 41 05.4
NOV 3		
H-18 58 41.1		
37.7N 118.1W		
h ABOUT 010KM		
EUR	IP	18 59 21.4
BCN	E(P)	18 59 35.0
	EL	19 00 16.0
NOV 03		
ALQ	E(P)	19 01 42.3
NOV 03		
SLC	IP	19 45 08.2
NOV 03		
COL	EP	20 22 47.0
NOV 03		
COL	E(P)	21 14 15.7
NOV 03		
TUC	E(P)	21 28 48.3
NOV 03		
TUC	E(P)	21 41 07.4
NOV 03		
SLC	IP	21 51 24.2
EUR	EP	21 52 10.0
NOV 03		
EUR	IP	22 18 10.3
NOV 03		
EUR	IP	22 25 09.6
COL	EP	22 30 36.0
NOV 03		
BCN	IP	22 58 02.2
	IS	58 14.6
NOV 03		
TUC	EP	23 00 00.7
NOV 03		
EUR	EP	23 29 16.8
NOV 04		
EUR	EP	00 35 13.1
NOV 04		
EUR	EP	01 11 38.9
NOV 4		
H-02 11 24.9		
19.7S 069.2W		
h ABOUT 102KM		
CSC	EP	02 20 44.0
	EpP	21 10.0
	EsP	21 22.0
ALQ	IP	02 21 55.0
TUC	EP D	02 21 58.3
	E	22 08.7
BCN	EP	02 22 30.5
	EpP	22 56.2
RCD	IP	02 22 31.0
	EpP	22 57.0
SLC	E(P)	02 22 36.7
	E	22 40.2
EUR	IP	02 22 48.5
BOZ	EP	02 23 00.9
BUT	EP	02 23 04.5
	EpP	23 31.0
HHM	IP	02 23 17.8
	EpP	23 43.8
NOV 04		
BOZ	E(P)	02 16 49.7
NOV 4		
H-03 37 35.9		
54.9N 162.6E		
h ABOUT 049KM		
COL	IP	03 43 06.0
EUR	IP	03 47 00.2
RCD	EP	03 47 23.0
	E	47 32.0
TUC	E(P)	03 47 56.3
ALQ	I(P)	03 47 59.2
NOV 04		
TUC	E(P)	04 08 10.0
NOV 4		
H-04 44 34.9		
58.8N 151.6W		
h ABOUT 034KM		
COL	EP	04 46 09.0
HHM	EP	04 49 51.8
NOV 04		
EUR	EP	05 07 43.8
NOV 04		
TUC	E(P)	05 49 46.7
ALQ	E(P)	05 50 09.7
NOV 4		
H-06 00 13.3		
21.0S 067.1W		
h ABOUT 244KM		
ALQ	E(P)	06 10 42.0
NOV 04		
EUR	EP	06 06 30.8
NOV 4		
H-06 27 53.8		
16.3S 172.9W		
h ABOUT 033KM		
COL	EP	06 40 17.0
NOV 04		
ALQ	E(P)	06 40 21.5
NOV 4		
H-06 40 51.0		
55.0N 162.3E		
h ABOUT 033KM		
COL	EP	06 46 23.0
EUR	EP	06 50 17.9
NOV 04		
COL	EP	07 30 29.8
NOV 04		
COL	E(P)	08 22 10.6
NOV 4		
H-08 42 53.8		
39.6N 110.3W		
h ABOUT 000KM		
SLC	EP	08 43 24.1
EUR	EP	08 44 05.4
ALQ	E(P)	08 44 19.5
TUC	E(P)	08 45 09.1
NOV 04		
COL	E(P)	09 40 06.7
NOV 04		
COL	E	10 37 49.2
NOV 04		
COL	EP	11 10 06.0
NOV 4		
H-11 50 32.1		
37.6N 118.2W		
h ABOUT 033KM		
EUR	I(P)	11 51 06.9
	I	54 33.8
BCN	EP	11 51 22.4
	EL	52 08.0
ALQ	E(P)	11 53 07.0
NOV 4		
H-11 53 56.2		
37.5N 118.4W		
h ABOUT 033KM		
EUR	E(P)	11 54 30.3
BCN	EP	11 54 46.0
	EL	55 37.0
NOV 04		
TUC	E(P)	11 54 45.3
NOV 04		
EUR	EP	12 04 57.8
NOV 04		
EUR	EP	12 48 09.2
NOV 04		
ALQ	E(P)	13 48 05.5
COL	EP	13 50 12.0
NOV 04		
COL	IP	14 03 05.1
NOV 04		
ALQ	E(P)	14 52 35.5
NOV 04		
TUC	E(P)	15 03 03.6
NOV 4		
H-15 20 23.5		
24.8N 096.1E		
h ABOUT 043KM		
COL	EP	15 32 19.0
NOV 04		
EUR	IP	16 38 36.1
NOV 04		
EUR	IP	18 31 30.3
NOV 04		
TUC	E(P)	19 17 45.0
NOV 4		
H-19 46 06.2		
36.4N 070.8E		
h ABOUT 210KM		
COL	IP	19 57 23.3
NOV 04		
GUA	EP	21 05 22.0
	ES	11 05.0
COL	EP	21 13 38.0
EUR	IP	21 17 39.8
ALQ	E(P)	21 18 38.0
NOV 04		
COL	IP	21 21 48.2
NOV 04		
ALQ	E(P)	21 48 23.5
NOV 04		
SLC	EP	22 02 50.5
EUR	EP	22 03 37.3
NOV 04		
TUC	E(P)	22 09 23.8
NOV 04		
EUR	IP	22 29 39.3
TUC	E(P)	22 31 14.9

Date and Station	Phase (GCT)
	h m s
NOV 04	
TUC E(P)	22 32 21.1
E	23 32 26.7
E	33 47.0
NOV 4	
H-22 34 54.2	
20.1S 178.5W	
h ABOUT 605KM	
COL IP	22 46 41.2
NOV 04	
ALQ E(P)	22 54 49.0
NOV 04	
SLC E(P)	23 02 41.5
NOV 04	
COL E	23 16 38.3
NOV 04	
EUR EP	23 31 37.4
NOV 05	
ALQ I(P)	00 05 19.2
E	09 42.5
NOV 05	
EUR EP	00 12 27.6
NOV 5	
H-00 45 30.9	
7.0S 129.4E	
h ABOUT 095KM	
TUC EP'	01 04 11.4
ALQ IP'	01 04 17.0
NOV 05	
TUC E(P)	00 52 57.2
E	53 10.0
E(L)	53 44.0
BCN E(P)	00 53 16.0
EL	54 43.0
NOV 05	
ALQ EP'	00 54 21.5
NOV 05	
COL IP	01 16 04.0
EUR EP	01 17 40.3
NOV 5	
H-01 47 42.1	
5.1S 146.1E	
h ABOUT 137KM	
COL IP	02 00 02.1
NOV 05	
ALQ E(P)	01 52 35.0
NOV 05	
TUC E(P)	02 36 54.8
E	37 30.3
NOV 05	
COL E	02 56 48.0

Date and Station	Phase (GCT)
	h m s
NOV 05	
COL EP	03 50 53.0
BOZ E(P)	03 53 50.0
NOV 5	
H-04 19 39.5	
05.5S 147.2E	
h ABOUT 197KM	
COL IP	04 31 51.6
EUR EP	04 32 53.0
HHM IP	04 33 04.9
BOZ EP	04 33 13.3
NOV 05	
COL IP	04 54 49.2
NOV 5	
H-07 01 15.3	
9.2N 142.0E	
h ABOUT 033KM	
GUA EP	07 02 31.2
ES	03 31.0
COL EP	07 12 45.0
HHM EP	07 14 25.6
NOV 05	
COL EP	07 04 57.5
NOV 05	
COL EP	07 06 50.0
EUR IP	07 10 24.9
NOV 05	
COL E(P)	07 15 19.3
NOV 05	
COL E	08 18 10.5
NOV 05	
COL EP	08 23 09.0
NOV 5	
H-08 47 06.0	
18.2N 068.4W	
h ABOUT 183KM	
ALQ IP	08 54 05.5
I▸P	54 41.6
TUC E(P)	08 54 29.7
BCN EP	08 55 02.5
E▸P	55 40.0
BOZ EP	08 55 05.4
E▸P	55 41.7
EUR EP	08 55 14.0
HHM E(P)	08 55 25.0
E▸P	56 01.9
COL EP	08 57 54.0
I▸P	58 34.8

Date and Station	Phase (GCT)
	h m s
NOV 05	
GUA EP	08 49 42.0
IS	50 34.0
NOV 5	
H-09 07 32.0	
20.3S 174.0W	
h ABOUT 015KM	
TUC EP	09 19 42.8
EUR EP	09 19 46.0
ALQ IP	09 20 06.7
BOZ E(P)	09 20 16.5
COL IP	09 20 20.4
NOV 05	
COL IP	09 58 58.4
HHM IP	10 03 41.7
NOV 05	
ALQ IP	10 13 40.8
NOV 05	
COL E	10 39 17.0
NOV 05	
COL EP	11 39 32.0
NOV 05	
COL E(P)	12 24 33.0
NOV 05	
COL IP	12 42 23.1
NOV 05	
ALQ E(P)	13 31 08.0
TUC E(P)	13 31 12.2
NOV 05	
TUC E(P)	14 10 40.2
NOV 05	
BCN IP	14 25 38.7
IS	25 40.4
NOV 05	
H-15 00 00.1	
37.2N 116.1W	
h ABOUT 000KM	
BCN IP C	15 00 28.4
EUR IP	15 00 38.8
SLC IP	15 01 17.8
I	01 37.8
EL	02 38.8
TUC EP	15 01 37.5
EL	03 24.0
ALQ IP	15 02 00.0
I	02 29.0
BOZ EP	15 02 17.9
BUT EP	15 02 19.0
E	02 58.0

Date and Station	Phase (GCT)
	h m s
HHM EP	15 02 46.4
EL	05 59.9
COL EP	15 06 41.0
NOV 05	
COL EP	15 11 35.0
NOV 05	
COL EP	16 01 23.0
NOV 05	
COL EP	16 19 06.9
NOV 05	
COL E(P)	16 27 24.5
NOV 05	
EUR EP	17 14 43.2
NOV 05	
COL E	17 30 05.3
NOV 05	
COL EP	18 21 00.3
NOV 05	
COL EP	19 13 33.0
NOV 05	
COL E(P)	20 33 45.0
NOV 05	
TUC E(P)	20 46 16.4
NOV 05	
ALQ IP	21 01 25.8
NOV 05	
COL IP	21 06 48.3
NOV 05	
COL E	21 17 23.4
NOV 05	
SLC IP	22 02 23.3
I	02 42.4
EUR EP	22 03 08.8
NOV 05	
COL IP	22 03 31.5
NOV 05	
EUR IP	22 28 45.9
NOV 05	
EUR IP	22 32 00.1
NOV 05	
BCN E(P)	22 49 04.5
EL	49 40.0
TUC E(P)	22 49 27.0
NOV 05	
TUC E(P)	23 00 40.6
NOV 05	
SLC E(P)	23 11 49.4
EUR EP	23 12 32.4

Date and Station	Phase (GCT)
	h m s
NOV 05	
BOZ E(P)	23 59 03.8
NOV 06	
COL EP	01 55 51.0
NOV 06	
COL EP	02 15 04.0
BOZ E(P)	02 18 14.5
EUR IP	02 18 24.6
NOV 06	
TUC E(P)	02 30 31.0
NOV 06	
COL E	02 56 10.4
EUR EP	03 00 58.0
NOV 06	
COL E(P)	03 25 26.6
NOV 06	
COL EP	06 04 35.0
NOV 06	
EUR EP	06 35 17.3
NOV 6	
H-06 57 38.2	
44.5N 148.4E	
h ABOUT 033KM	
COL EP	07 05 11.0
BOZ EP	07 08 22.1
EUR EP	07 08 31.0
NOV 06	
COL E(P)	07 26 11.8
NOV 06	
COL EP	07 48 39.0
NOV 06	
COL EP	07 51 17.8
EUR EP	07 51 53.6
NOV 06	
COL E(P)	08 19 49.0
NOV 6	
H-09 22 01.1	
57.0N 161.6E	
h ABOUT 033KM	
COL EP	09 27 25.0
NOV 6	
H-09 53 22.4	
44.4N 149.0E	
h ABOUT 060KM	
COL IP	10 00 49.4
BUT EP	10 03 53.8
BOZ EP	10 04 00.9
ES	12 44.0
EUR IP	10 04 09.3
SLC IP	10 04 20.3
BCN EP	10 04 28.0
RCD IP	10 04 35.0
TUC EP	10 04 57.2
E>P	05 12.6
ESCS	14 32.0
ALQ IP	10 05 02.0
I>P	06 16.4
CSC EP	10 06 16.0
E>P	06 30.0
HON E	10 09 17.0
E	09 32.0
EL	15 38.0
NOV 06	
COL E(P)	09 54 27.5
NOV 06	
GUA EP	09 58 20.0
E(S)	10 07 25.0
NOV 6	
H-10 25 31.8	
44.5N 148.9E	
h ABOUT 033KM	
COL EP	10 33 04.0
BOZ EP	10 36 13.5
EUR EP	10 36 22.5
BCN EP	10 36 41.0
TUC EP	10 37 10.3
ALQ I(P)	10 37 16.3
NOV 06	
TUC E(P)	10 26 35.4
NOV 06	
HHM E(P)	10 33 02.0
NOV 06	
COL EP	10 48 09.0
NOV 06	
COL IP	11 32 01.0
E(S)	32 28.0
NOV 06	
COL EP	11 50 30.8
NOV 6	
H-12 14 29.8	
43.5N 126.6W	
h ABOUT 033KM	
EUR EP	12 16 40.2
HHM EP	12 16 53.1
BOZ EP	12 17 06.3
TUC E(P)	12 18 25.0
ALQ IP	12 18 36.7
NOV 6	
H-12 18 42.1	
59.7N 148.9W	
h ABOUT 033KM	
COL IP	12 20 00.1
EUR IP	12 24 40.1
NOV 06	
COL EP	13 23 35.9
NOV 06	
COL EP	13 30 14.9
NOV 6	
H-13 55 53.7	
31.7S 057.4E	
h ABOUT 033KM	
COL EP'	14 15 21.0
CSC EP'	14 15 28.0
TUC EP'	14 16 01.0
BCN EP'	14 16 02.3
ALQ E(P')	14 16 07.0
I	16 57.3
NOV 06	
HHM EP	14 16 39.2
BOZ E(P)	14 16 47.8
NOV 06	
SLC EP	14 17 03.5
EUR IP	14 17 18.0
NOV 06	
COL EP	15 35 55.8
NOV 06	
EUR EP	16 05 50.9
NOV 6	
H-16 31 11.9	
21.0S 067.2W	
h ABOUT 179KM	
TUC EP	16 41 50.0
EUR EP	16 42 39.2
BOZ EP	16 42 50.4
NOV 06	
COL E	17 20 01.3
NOV 06	
EUR EP	17 28 10.7
I	28 46.0
NOV 06	
COL EP	18 39 47.0
NOV 6	
H-20 35 58.7	
44.5N 148.8E	
h ABOUT 072KM	
COL EP	20 43 26.0
EUR EP	20 46 45.7
NOV 06	
BOZ EP	20 37 06.6
NOV 06	
SLC EP	22 01 37.6
EUR EP	22 02 22.2
NOV 06	
EUR IP	22 44 38.0
NOV 06	
EUR EP	23 39 49.0
NOV 07	
TUC E(P)	01 12 37.5
ALQ IP	01 12 39.9
NOV 07	
COL EP	01 16 09.0
NOV 7	
H-01 36 56.5	
12.0N 088.0W	
h ABOUT 033KM	
ALQ E(P)	01 42 50.0
TUC EP	01 42 55.2
E	43 02.0
BOZ EP	01 44 22.8
E	45 32.3
COL EP	01 47 46.0
NOV 07	
COL EP	01 43 19.4
ES	44 21.3
NOV 07	
COL EP	01 55 36.0
NOV 07	
COL EP	02 04 26.0
NOV 07	
EUR EP	02 48 33.8
NOV 07	
COL EP	03 02 40.0
NOV 7	
H-04 03 38.7	
14.0N 144.7E	
h ABOUT 155KM	
GUA IP	04 04 01.0
IS	04 16.0
COL E(P)	04 14 19.8
HHM EP	04 16 08.9
EUR IP	04 16 14.8

Date and Station	Phase (GCT)
	h m s
NOV 7	
H-04 16 30.5	
48.6N 156.9E	
h ABOUT 033KM	
COL IP	04 23 05.0
BOZ EP	04 26 26.5
EUR EP	04 26 36.9
NOV 07	
COL IP	06 22 02.5
NOV 07	
BOZ E(P)	07 29 23.8
NOV 07	
COL E	07 40 08.2
NOV 7	
H-07 44 05.7	
6.5S 148.2E	
h ABOUT 048KM	
COL E(P)	07 56 44.5
NOV 07	
GUA EP	07 52 29.0
E(S)	53 39.0
NOV 7	
H-07 59 56.7	
6.8S 148.4E	
h ABOUT 044KM	
COL EP	08 12 31.0
TUC E(P)	08 13 40.0
NOV 07	
BOZ EP	08 15 18.5
NOV 07	
COL EP	08 28 39.0
EUR IP	08 32 08.0
NOV 7	
H-09 11 28.8	
19.3N 147.1E	
h ABOUT 057KM	
GUA EP	09 12 57.5
ES	13 58.2
COL EP	09 21 45.0
EUR IP	09 23 50.9
RCD E(P)	09 24 23.0
TUC EP	09 24 23.5
ALQ E(P)	09 24 33.5
NOV 07	
COL E(P)	09 31 34.0
NOV 07	
COL IP	10 45 59.0
NOV 07	
COL E	10 51 37.3
TUC E(P)	10 52 29.7
NOV 07	
GUA EP	11 11 32.0
IS	11 48.0
NOV 7	
H-11 20 46.2	
50.7N 179.1E	
h ABOUT 033KM	
COL IP	11 25 41.5
EUR EP	11 29 06.7
NOV 07	
COL EP	12 41 19.6
NOV 07	
COL E(P)	13 57 05.6
NOV 7	
H-14 49 13.4	
45.5N 150.3E	
h ABOUT 033KM	
COL IP	14 56 33.3
ES	02 28.4
HHM EP	14 59 25.9
BOZ EP	14 59 46.3
EUR IP	14 59 55.4
SLC EP	15 00 05.2
BCN EP	15 00 14.2
TUC EP	15 00 43.4
ALQ IP	15 00 49.4
CSC EP	15 02 02.0
HON E	15 05 06.0
EL	11 20.0
NOV 07	
COL EP	14 59 28.0
NOV 07	
GUA EP	15 04 05.0
NOV 07	
COL E(P)	16 10 18.4
NOV 07	
EUR EP	16 59 01.2
NOV 07	
COL EP	17 12 40.3
NOV 07	
COL E(P)	17 29 39.5
NOV 07	
COL IP	18 05 58.0
NOV 07	
BCN E(P)	18 26 51.0
NOV 7	
H-18 37 43.7	
00.4N 100.1E	
h ABOUT 107KM	
HHM EP'	18 56 32.0
EUR EP'	18 56 43.8
SLC EP'	18 56 43.9
ESKP	19 00 00.5
E	00 05.0
ALQ EP'	18 56 51.3
ISKP	19 00 29.5
TUC EP'	18 57 00.9
ESKP	19 00 27.5
CSC EP'	18 57 13.0
HON E	19 10 14.0
EL	23 19.0
NOV 07	
COL IP	18 39 24.7
NOV 07	
GUA EP	18 52 36.0
ES	56 25.0
COL E(P)	19 02 44.5
NOV 07	
BCN EP	19 00 11.0
NOV 07	
CSC EP	20 06 08.0
NOV 7	
H-20 07 04.4	
13.1N 089.9W	
h ABOUT 082KM	
TUC EP	20 12 41.2
BCN EP	20 13 25.7
EUR EP	20 13 51.0
NOV 07	
COL IP	20 42 15.8
NOV 07	
COL EP	21 15 58.5
NOV 07	
SLC EP	21 59 16.3
NOV 07	
SLC EP	23 04 01.8
EL	04 30.2
NOV 7	
H-23 41 55.1	
19.9S 177.4W	
h ABOUT 281KM	
TUC EP	23 53 47.0
EUR EP	23 53 47.2
ALQ I(P)	23 54 08.8
COL IP	23 54 10.5
NOV 08	
ALQ I(P)	00 00 07.0
NOV 8	
H-00 06 54.3	
48.8S 111.2W	
h ABOUT 033KM	
TUC EP	00 19 05.4
ALQ I(P)	00 19 19.6
EUR EP	00 19 42.3
NOV 08	
TUC EP	00 54 08.8
NOV 08	
BUT IP	01 16 13.2
NOV 8	
H-01 19 17.2	
35.8N 120.2W	
h ABOUT 014KM	
BCN E(P)	01 20 25.8
E	20 40.4
EL	21 26.7
EUR EP	01 20 33.4
I	20 45.4
TUC E(P)	01 21 23.6
ALQ E(P)	01 23 08.5
NOV 8	
H-02 43 57.2	
49.0S 163.7E	
h ABOUT 033KM	
HON EP	02 55 53.0
IS	03 05 54.0
ESCS	06 24.0
ESS	10 59.0
EL	17 11.0
KIP E(P)	02 56 00.0
ES	03 05 52.0
EL	17 06.0
ALQ EP'	03 02 35.3
HHM EP'	03 02 42.0
BOZ EP'	03 02 43.5
RCD EP'	03 02 49.0
CSC EP'	03 03 03.0
NOV 08	
TUC E(P)	03 03 07.2
NOV 08	
EUR EP	03 11 38.5
BOZ E(P)	03 13 04.5
NOV 08	
EUR EP	03 23 21.5

Date and Station	Phase	(GCT)
		h m s
NOV 08		
COL	EP	04 09 09.4
NOV 8		
H-04 30 51.4		
18.1S 178.5W		
h ABOUT 643KM		
TUC	EP	04 42 07.5
ALQ	E(P)	04 42 28.0
NOV 08		
COL	E(P)	06 42 08.1
NOV 08		
EUR	EP	06 51 53.7
NOV 08		
COL	EP	07 01 05.1
NOV 08		
COL	E(P)	10 00 39.8
NOV 08		
BOZ	E(P)	10 18 41.0
NOV 8		
H-10 33 27.5		
29.7N 051.0E		
h ABOUT 040KM		
TUC	EP'	10 52 09.5
NOV 08		
BOZ	E(P)	10 50 45.2
EUR	EP	10 51 26.5
NOV 08		
BOZ	E(P)	12 47 07.0
ALQ	I(P)	12 47 35.5
NOV 08		
EUR	EP	13 47 23.8
NOV 08		
COL	E	15 57 47.5
NOV 08		
COL	E	15 58 31.2
NOV 08		
EUR	EP	16 11 00.6
NOV 8		
H-16 36 52.8		
5.5S 147.0E		
h ABOUT 170KM		
COL	EP	16 49 07.8
NOV 08		
ALQ	E(P)	16 40 55.3
NOV 8		
H-17 56 31.1		
34.8N 133.0E		
h ABOUT 042KM		
HHM	I(P)	18 08 20.7
BOZ	EP	18 08 43.2
	E	08 53.5
EUR	IP	18 08 50.5
BCN	EP	18 09 05.7
ALQ	EP	18 09 32.0
NOV 08		
COL	E	18 30 15.9
TUC	E(P)	18 31 14.9
NOV 08		
COL	EP	20 41 38.2
NOV 08		
SLC	EP	21 35 08.8
NOV 08		
EUR	IP	22 28 05.6
NOV 08		
TUC	E(P)	22 59 07.4
NOV 08		
COL	E(P)	23 54 36.8
NOV 09		
GUA	EP	01 51 28.5
	ES	51 41.5
NOV 09		
COL	EP	01 54 05.7
	E(S)	54 43.1
NOV 09		
TUC	E(P)	04 07 39.8
NOV 9		
H-04 44 19.9		
07.2S 128.2E		
h ABOUT 129KM		
COL	EP	04 57 20.0
HHM	EP'	05 02 43.9
EUR	IP'	05 02 47.0
BOZ	EP'	05 02 49.0
BCN	EP'	05 02 50.0
TUC	EP'	05 02 57.5
	ESKP	06 16.7
RCD	IP'	05 03 01.0
ALQ	IP'	05 03 03.2
	ISKP	06 23.0
CSC	EP'	05 03 33.0
NOV 09		
GUA	EP	04 50 59.0
	E(S)	55 09.0
NOV 09		
EUR	EP	05 06 06.2
BCN	EP	05 06 10.0
NOV 09		
BOZ	E(P)	05 13 25.0
EUR	EP	05 13 26.4
NOV 09		
EUR	EP	07 08 56.0
NOV 9		
H-08 05 48.8		
39.8N 048.4E		
h ABOUT 065KM		
COL	IP	08 17 24.3
HHM	E(P)	08 18 47.0
RCD	EP	08 18 56.0
	E*P	19 10.0
BOZ	E(P)	08 18 57.4
NOV 09		
ALQ	E(P)	08 07 45.0
TUC	E(P)	08 07 49.5
NOV 09		
ALQ	E(P)	08 22 45.0
NOV 09		
BOZ	E(P)	09 47 24.5
	EL	48 02.1
BUT	E(P)	09 47 25.0
	IL	47 56.0
HHM	E(P)	09 47 36.0
	E	48 00.3
	EL	48 53.3
EUR	EP	09 47 59.0
NOV 09		
GUA	IP	10 02 36.0
	IS	02 50.0
NOV 09		
COL	EP	12 15 57.0
NOV 09		
TUC	E(P)	12 30 15.3
NOV 09		
COL	E	14 05 11.5
NOV 09		
BCN	IP	14 20 17.5
	IS	20 19.0
NOV 09		
COL	EP	14 31 15.2
NOV 9		
H-16 01 03.1		
56.8N 161.5E		
h ABOUT 033KM		
COL	EP	16 06 28.0
ALQ	E(P)	16 11 26.0
NOV 9		
H-16 12 50.6		
29.5N 086.0E		
h ABOUT 033KM		
COL	EP	16 24 43.0
NOV 09		
EUR	IP	16 49 46.1
NOV 09		
COL	EP	17 37 49.0
NOV 9		
H-18 24 20.6		
28.7N 112.0W		
h ABOUT 033KM		
TUC	E(P)	18 25 16.2
ALQ	E(P)	18 26 16.5
NOV 9		
H-18 43 38.6		
19.3N 121.0E		
h ABOUT 033KM		
GUA	E(P)	18 48 57.0
	E(S)	53 08.0
COL	EP	18 55 08.0
HHM	IP	18 57 08.4
ALQ	EP'	19 02 09.5
NOV 09		
EUR	IP	18 49 07.6
BOZ	E(P)	18 51 18.6
NOV 09		
TUC	EP	19 37 41.3
NOV 09		
BOZ	E(P)	19 53 12.7
NOV 09		
COL	EP	20 00 41.5
NOV 09		
COL	E(P)	20 25 44.8
NOV 09		
EUR	EP	21 16 40.3
NOV 09		
SLC	EP	22 06 12.3
EUR	EP	22 07 02.0
NOV 09		
CSC	EP	23 25 20.0
NOV 9		
H-23 35 35.5		
14.0S 177.9E		
h ABOUT 421KM		
EUR	E(P)	23 47 07.1
NOV 09		
COL	E(P)	23 44 36.2

Date and Station	Phase (GCT)
	h m s
NOV 09	
COL IP	23 45 36.3
NOV 09	
COL I(P)	23 48 24.6
NOV 10	
COL IP	01 07 02.3
NOV 10	
COL EP	03 38 16.0
NOV 10	
COL EP	04 15 09.3
NOV 10	
H-04 16 47.5	
24.4S 065.7W	
h ABOUT 076KM	
EUR EP	04 28 45.1
NOV 10	
COL EP	04 31 22.3
NOV 10	
TUC E(P)	04 55 46.5
NOV 10	
H-05 03 44.8	
60.1N 143.5W	
h ABOUT 040KM	
COL IP	05 05 02.6
BUT E(P)	05 08 48.0
BOZ EP	05 08 56.8
EUR IP	05 09 22.9
ALQ E(P)	05 10 32.2
TUC EP	05 10 36.0
NOV 10	
BUT E(P)	05 24 52.0
NOV 10	
COL EP	05 52 23.0
NOV 10	
H-06 07 49.6	
59.8N 144.3W	
h ABOUT 042KM	
COL IP	06 09 09.3
HHM EP	06 12 30.1
BUT E(P)	06 12 53.0
BOZ EP	06 13 02.8
RCD EP	06 13 54.0
ALQ IP	06 14 38.7
TUC EP	06 14 41.8
CSC E(P)	06 16 31.0

Date and Station	Phase (GCT)
	h m s
NOV 10	
ALQ E(P)	06 10 02.8
I	11 28.5
NOV 10	
COL EP	07 19 14.6
NOV 10	
EUR EP	07 31 44.7
NOV 10	
COL E(P)	07 57 34.0
NOV 10	
COL I(P)	08 02 10.3
BUT E(P)	08 06 35.0
E	10 52.9
NOV 10	
H-11 22 54.3	
56.7N 161.3E	
h ABOUT 033KM	
COL E(P)	11 28 20.4
E	28 30.8
NOV 10	
H-12 45 16.3	
31.6N 132.3E	
h ABOUT 169KM	
COL I(P)	12 54 47.0
HHM EP	12 57 12.0
BOZ EP	12 57 28.0
EUR EP	12 57 33.5
BCN EP	12 57 49.0
ALQ EP	12 58 17.5
NOV 10	
COL E(P)	13 01 41.2
NOV 10	
COL EP	14 50 15.6
NOV 10	
COL E	14 59 28.8
NOV 10	
H-15 47 49.3	
32.6N 049.1E	
h ABOUT 028KM	
COL EP	16 00 06.0
NOV 10	
H-17 13 03.9	
29.8N 092.2E	
h ABOUT 069KM	
COL IP	17 24 38.4
NOV 10	
COL IP	17 58 34.6
NOV 10	
COL EP	19 21 11.0

Date and Station	Phase (GCT)
	h m s
NOV 10	
H-19 26 40.8	
47.5N 023.6W	
h ABOUT 031KM	
BOZ EP	19 36 27.3
NOV 10	
EUR P	21 00 02.4
NOV 10	
TUC E(P)	21 25 24.0
NOV 10	
SLC IP	22 00 50.4
EUR EP	22 01 39.3
NOV 10	
COL EP	22 41 34.0
NOV 10	
BCN E(P)	22 45 06.0
EL	45 41.5
NOV 10	
TUC EP D	23 02 24.5
NOV 10	
COL EP	23 13 19.0
NOV 11	
COL EP	00 15 25.9
E	15 39.9
NOV 11	
COL E(P)	01 33 45.3
NOV 11	
H-02 01 47.0	
56.9N 161.0E	
h ABOUT 033KM	
COL E(P)	02 07 13.5
EUR EP	02 11 14.5
NOV 11	
COL E(P)	02 10 07.6
NOV 11	
H-03 31 40.5	
56.7N 161.3E	
h ABOUT 033KM	
COL EP	03 37 07.0
EUR EP	03 41 07.1
NOV 11	
BOZ E(P)	03 40 32.3
NOV 11	
TUC E(P)	04 04 57.2
NOV 11	
EUR EP	04 46 15.2
NOV 11	
COL EP	05 14 30.9

Date and Station	Phase (GCT)
	h m s
NOV 11	
H-05 25 07.6	
30.7N 131.3E	
h ABOUT 033KM	
COL E(P)	05 35 04.9
BOZ EP	05 37 41.6
EUR EP	05 37 48.7
NOV 11	
COL EP	05 26 56.5
NOV 11	
H-05 59 32.2	
53.8N 160.8E	
h ABOUT 033KM	
COL E(P)	06 05 32.5
EUR EP	06 09 07.8
NOV 11	
H-06 17 06.2	
44.6N 148.6E	
h ABOUT 033KM	
COL EP	06 24 36.0
BOZ EP	06 27 48.7
EUR EP	06 27 58.1
NOV 11	
PHI E(P)	06 25 16.3
NOV 11	
H-07 54 58.3	
57.1N 161.7E	
h ABOUT 033KM	
COL EP	08 00 20.0
BOZ EP	08 04 05.0
EUR EP	08 04 22.8
BCN EP	08 04 45.0
NOV 11	
H-08 01 26.1	
59.4N 144.6W	
h ABOUT 010KM	
SIT E(P)	08 02 50.0
COL IP	08 02 52.8
HHM IP	08 06 10.7
BOZ EP	08 06 42.6
ES	11 04.8
EUR IP	08 07 10.9
SLC EP	08 07 16.9
RCD EP	08 07 30.5
E	07 36.0
BCN EP	08 07 41.5

Date and Station	Phase	(GCT)
		h m s
ALQ	IP	08 08 20.5
	E(SCP)	14 40.7
TUC	EP	08 08 22.9
	ES	14 05.0
WAS	EP	08 09 55.4
	ELG	24 53.5
HON	E	08 15 08.0
	EL	18 28.0
KIP	ET	08 50 12.0
NOV 11		
COL	E(P)	08 26 14.0
CSC	IP	08 27 00.0
NOV 11		
ALQ	E(P)	08 59 39.0
BOZ	E(P)	09 01 08.3
NOV 11		
COL	IP	09 03 10.6
	E(S)	03 28.7
NOV 11		
H-09 18 33.9		
56.7N 161.4E		
h ABOUT 033KM		
COL	EP	09 24 00.0
BOZ	EP	09 27 42.1
EUR	IP	09 28 00.4
RCD	EP	09 28 20.0
BCN	EP	09 28 23.2
NOV 11		
COL	EP	10 04 30.0
NOV 11		
H-10 16 17.5		
56.8N 161.2E		
h ABOUT 033KM		
COL	EP	10 21 43.5
BOZ	E(P)	10 25 26.0
EUR	EP	10 25 44.1
NOV 11		
BCN	EP	10 28 50.0
NOV 11		
COL	IP	10 50 09.0
NOV 11		
COL	EP	10 53 03.0
NOV 11		
H-11 19 38.6		
23.7S 178.0W		
h ABOUT 332KM		
TUC	EP	11 31 38.0
ALQ	I(P)	11 31 59.5
COL	EP	11 32 09.0
BOZ	EP	11 32 09.7
NOV 11		
COL	E(P)	11 40 50.7
NOV 11		
COL	EP	11 57 10.0
NOV 11		
COL	EP	11 59 11.2
NOV 11		
COL	EP	12 17 51.0
BOZ	EP	12 20 32.0
NOV 11		
H-13 11 23.3		
56.5N 161.5E		
h ABOUT 033KM		
COL	EP	13 16 50.3
	E	16 57.3
BOZ	EP	13 20 33.0
EUR	E(P)	13 20 48.5
RCD	EP	13 21 11.0
BCN	EP	13 21 14.2
NOV 11		
H-13 17 37.5		
56.6N 161.4E		
h ABOUT 033KM		
COL	IP	13 23 03.5
HHM	EP	13 26 23.0
BOZ	EP	13 26 46.6
EUR	IP	13 27 04.4
RCD	IP	13 27 24.0
	E	27 35.0
BCN	EP	13 27 27.5
TUC	EP	13 28 00.8
ALQ	EIP	13 28 02.2
	I	28 07.3
NOV 11		
COL	IP	13 31 52.0
NOV 11		
COL	IP	14 10 14.0
NOV 11		
H-14 37 22.6		
56.8N 161.1E		
h ABOUT 033KM		
COL	EP	14 42 49.0
BOZ	EP	14 46 31.6
EUR	IP	14 46 49.4
RCD	E(P)	14 47 10.0
BCN	EP	14 47 14.0
NOV 11		
H-14 59 36.0		
56.9N 161.7E		
h ABOUT 033KM		
COL	EP	15 05 00.0
NOV 11		
COL	EP	15 25 49.0
BOZ	E(P)	15 30 14.7
NOV 11		
H-15 40 18.0		
56.6N 161.4E		
h ABOUT 033KM		
COL	EP	15 45 43.0
BOZ	EP	15 49 26.7
EUR	IP	15 49 44.4
RCD	EP	15 50 04.0
	E	50 20.0
BCN	EP	15 50 08.0
TUC	E(P)	15 50 41.2
ALQ	I(P)	15 50 42.7
NOV 11		
ALQ	E(P)	15 41 16.2
NOV 11		
H-16 32 24.5		
56.5N 161.2E		
h ABOUT 033KM		
COL	EP	16 37 51.0
BOZ	EP	16 41 33.5
EUR	IP	16 41 51.5
BCN	EP	16 42 15.0
NOV 11		
H-16 45 09.0		
20.0N 108.9W		
h ABOUT 033KM		
TUC	EP	16 48 07.0
ALQ	EIP	16 48 43.8
	I	48 49.7
BCN	EP	16 49 04.0
	I	49 12.0
EUR	IP	16 49 44.5
RCD	EP	16 50 29.0
BOZ	EP	16 50 36.3
	I	50 38.0
COL	EP	16 54 19.5
NOV 11		
H-16 57 24.4		
56.6N 161.4E		
h ABOUT 033KM		
COL	EP	17 02 51.0
BOZ	EP	17 06 33.7
RCD	EP	17 07 12.0
	E	07 24.0
BCN	EP	17 07 15.4
NOV 11		
HHM	IP	16 59 50.2
NOV 11		
EUR	IP	17 08 17.5
NOV 11		
H-17 18 43.2		
19.8N 108.9W		
h ABOUT 033KM		
TUC	E(P)	17 21 48.4
BCN	E(P)	17 22 40.0
COL	E(P)	17 28 50.2
NOV 11		
COL	EP	17 20 48.0
BCN	EP	17 22 20.0
NOV 11		
H-17 26 24.5		
56.8N 161.8E		
h ABOUT 033KM		
COL	EP	17 31 49.0
BOZ	EP	17 35 31.0
BCN	EP	17 36 12.5
NOV 11		
H-17 28 50.5		
56.6N 161.4E		
h ABOUT 033KM		
COL	EP	17 34 17.0
BOZ	EP	17 37 59.6
BCN	EP	17 38 40.5
TUC	EP	17 39 13.8
NOV 11		
H-17 53 19.3		
56.5N 161.3E		
h ABOUT 033KM		
COL	EP	17 58 45.0
BOZ	EP	18 02 28.9
EUR	IP	18 02 46.8
BCN	EP	18 03 10.0
TUC	EP	18 03 42.5

Date and Station	Phase (GCT)
	h m s
NOV 11	
COL E(P)	17 54 26.7
NOV 11	
COL E	18 13 09.5
TUC EP	18 20 37.6
NOV 11	
H-18 18 52.7	
56.5N 161.3E	
h ABOUT 033KM	
COL IP	18 24 19.4
BOZ EP	18 28 02.1
EUR IP	18 28 19.6
RCD EP	18 28 39.0
BCN EP	18 28 43.0
E	29 07.0
TUC EP	18 29 16.0
NOV 11	
COL E(P)	18 20 34.1
BCN EP	18 21 35.0
NOV 11	
H-18 37 20.3	
19.6N 109.0W	
h ABOUT 033KM	
TUC EP	18 40 22.0
BCN EP	18 41 19.0
COL E(P)	18 46 16.0
NOV 11	
H-18 48 56.6	
13.4S 075.0W	
h ABOUT 099KM	
TUC EP	18 58 32.6
E	58 44.5
BCN EP	18 59 08.5
RCD EP	18 59 12.0
EUR IP	18 59 28.7
BOZ EP	18 59 42.9
COL IP	19 02 08.8
NOV 11	
COL EP	18 55 31.2
NOV 11	
COL EP	18 56 52.0
NOV 11	
H-19 06 57.1	
56.5N 161.3E	
h ABOUT 033KM	
COL IP	19 12 23.8
HHM E(P)	19 15 37.6
BUT EP	19 16 02.1
BOZ EP	19 16 06.6
EUR IP	19 16 24.2
RCD EP	19 16 44.0
BCN EP	19 16 47.4
E	16 53.0
E	17 11.0
TUC EP	19 17 20.2
NOV 11	
H-19 13 39.3	
56.6N 161.3E	
h ABOUT 033KM	
COL EP	19 19 06.0
BOZ EP	19 22 48.7
EUR IP	19 23 06.5
RCD EP	19 23 24.0
E	23 33.0
BCN EP	19 23 30.0
TUC EP	19 24 02.4
E	24 17.3
NOV 11	
H-19 16 57.2	
38.7N 140.1E	
h ABOUT 089KM	
COL EP	19 25 32.0
BOZ EP	19 28 26.4
BCN EP	19 28 50.5
TUC E(P)	19 29 16.3
NOV 11	
COL E(P)	20 04 39.6
NOV 11	
H-21 28 03.0	
13.7S 167.2E	
h ABOUT 135KM	
COL E(P)	21 40 29.0
NOV 11	
EUR EP	21 30 49.9
SLC EP	21 30 53.3
NOV 11	
COL EP	21 40 56.0
NOV 11	
COL IP	22 52 43.3
NOV 11	
H-23 38 47.2	
11.9N 143.1E	
h ABOUT 033KM	
GUA IP	23 39 25.0
IS	39 51.0
COL IP	23 49 58.9
NOV 11	
BOZ E(P)	23 40 11.0
NOV 12	
H-00 55 25.6	
33.2S 179.9W	
h ABOUT 074KM	
TUC E(P)	01 08 28.0
NOV 12	
H-01 12 07.7	
33.0S 179.7E	
h ABOUT 008KM	
TUC E(P)	01 25 20.0
NOV 12	
TUC E(P)	01 21 25.4
NOV 12	
EUR EP	04 34 16.2
NOV 12	
BCN E(P)	04 35 39.0
NOV 12	
TUC E(P)	04 43 51.1
NOV 12	
H-05 16 26.2	
47.1N 146.6E	
h ABOUT 328KM	
HHM EP	05 26 13.6
BOZ IP C	05 26 34.0
E	27 53.0
TUC EP	05 27 32.2
ALQ EIP	05 27 36.3
NOV 12	
H-05 33 28.7	
18.2S 176.4W	
h ABOUT 107KM	
TUC E(P)	05 45 16.0
BCN EP	05 45 24.2
EUR IP	05 45 34.0
SLC EP	05 45 48.3
ALQ EIP	05 45 53.4
BUT E(P)	05 45 56.0
HHM E(P)	05 45 58.8
BOZ EP	05 46 00.4
E	46 08.5
HON E	05 42 58.0
IS	47 50.0
EL	50 54.0
KIP ES	05 47 58.0
EL	50 54.0
NOV 12	
COL EP	05 39 13.4
NOV 12	
GUA EP	05 43 35.0
E(S)	49 25.0
NOV 12	
TUC E(P)	05 51 12.0
NOV 12	
TUC E(P)	05 56 21.5
NOV 12	
TUC E(P)	06 31 04.3
NOV 12	
BUT EP	07 59 19.6
IL	59 38.1
BOZ EP	07 59 22.7
EL	59 51.0
NOV 12	
EUR EP	09 12 43.4
HHM EP	09 14 31.3
NOV 12	
H-09 25 54.1	
16.7S 174.6W	
h ABOUT 190KM	
BCN EP	09 37 28.5
EpP	38 20.5
TUC IP	09 37 34.5
EpP	38 27.7
ALQ IP	09 37 58.2
IpP	38 52.0
BOZ EP	09 38 05.5
EpP	38 58.8
NOV 12	
BOZ E(P)	10 52 00.6
NOV 12	
H-12 13 34.6	
18.0S 069.8W	
h ABOUT 080KM	
ALQ EIP	12 23 56.0
TUC EP	12 23 58.7
RCD EP	12 24 33.0
E	24 39.0
EUR EP	12 24 50.7
BOZ EP	12 25 02.8
EpP	25 22.3
NOV 12	
GUA EP	12 28 46.8
NOV 12	
H-13 21 13.1	
29.1S 178.3W	
h ABOUT 136KM	
TUC E(P)	13 33 55.2

Date and Station	Phase (GCT)
	h m s
NOV 12	
H-13 34 18.5	
27.0N 127.1E	
h ABOUT 033KM	
COL E(P)	13 44 50.0
NOV 12	
H-13 57 58.8	
36.7N 139.0E	
h ABOUT 038KM	
COL EP	14 06 53.8
HHM EP	14 09 28.8
BOZ EP	14 09 45.8
E	10 00.3
EUR IP	14 09 53.6
TUC E(P)	14 10 32.7
ALQ E(P)	14 10 39.0
NOV 12	
BOZ EP	17 39 40.5
E	39 56.4
NOV 12	
TUC EP	18 00 03.5
EL	00 23.5
NOV 12	
TUC EP	18 04 49.8
NOV 12	
BOZ E(P)	18 16 31.5
NOV 12	
BHP IP	18 24 28.0
IS	25 21.0
NOV 12	
BOZ E(P)	18 28 37.5
NOV 12	
TUC EP	18 36 37.2
EL	36 53.9
NOV 12	
H-19 57 37.0	
42.1N 142.5E	
h ABOUT 069KM	
COL IP	20 05 42.5
HHM EP	20 08 28.8
BOZ IP	20 08 47.0
ALQ IP	20 09 46.0
NOV 12	
H-20 07 25.4	
37.7N 118.0W	
h ABOUT 020KM	
EUR IP	20 08 04.8
BCN E(P)	20 08 12.5
I	08 18.7
I(S)	08 57.5
IL	09 05.0
TUC E(P)	20 09 23.3
E	09 41.0
NOV 12	
TUC E(P)	20 24 31.9
NOV 12	
CSC EP	20 28 17.0
NOV 12	
TUC E(P)	20 50 17.9
NOV 12	
COL EP	21 18 42.0
NOV 12	
SLC EP	21 52 49.5
NOV 12	
SLC E(P)	23 08 33.0
NOV 12	
H-23 14 30.2	
16.7N 145.6E	
h ABOUT 073KM	
GUA IP	23 15 20.5
EL	15 52.2
BOZ E(P)	23 27 08.0
NOV 12	
COL EP	23 23 05.7
NOV 12	
COL EP	23 47 14.0
TUC EP	23 47 22.6
E	47 44.5
NOV 12	
BCN IP	23 56 07.7
EL	57 28.0
TUC E(P)	23 56 36.7
EUR IP	23 56 46.1
NOV 13	
H-00 35 49.2	
18.5S 177.1W	
h ABOUT 329KM	
COL EP	00 47 54.0
NOV 13	
ALQ E(P)	01 06 06.9
NOV 13	
TUC E(P)	01 12 56.8
E	13 14.7
NOV 13	
BCN IP	01 18 04.4
IS	18 09.4
NOV 13	
EUR EP	01 19 08.8
NOV 13	
BOZ E(P)	01 56 23.4
NOV 13	
BOZ EP	02 01 04.7
NOV 13	
BOZ E(P)	03 49 02.5
NOV 13	
EUR EP	03 55 04.0
I	56 47.9
NOV 13	
TUC E(P)	04 12 43.9
NOV 13	
COL IP	04 29 29.2
NOV 13	
H-05 05 10.8	
37.6N 118.0W	
h ABOUT 020KM	
EUR IP	05 05 50.3
BCN EP	05 05 58.7
I	06 43.5
IL	06 51.5
SLC E(P)	05 06 33.1
E	06 59.1
EL	08 11.6
TUC E(P)	05 07 07.2
BOZ EP	05 07 28.8
ALQ EP	05 07 36.0
I	08 12.2
IL	10 16.6
NOV 13	
EUR EP	05 49 05.9
NOV 13	
COL EP	06 09 19.5
BOZ EP	06 12 25.2
NOV 13	
COL EP	06 30 31.0
NOV 13	
TUC E(P)	06 49 40.4
EL	50 02.4
NOV 13	
H-08 02 38.5	
13.0N 088.6W	
h ABOUT 086KM	
CSC IP	08 07 29.0
E	07 40.0
TUC E(P)	08 08 23.7
E	08 29.4
BCN EP	08 09 08.0
RCD EP	08 09 12.0
EPP	10 36.0
SLC E(P)	08 09 14.2
I	09 21.4
EUR EP	08 09 32.3
BOZ IP	08 09 50.1
EPP	10 10.2
HHM IP	08 10 15.8
COL IP	08 13 12.6
NOV 13	
BCN EP	08 11 51.2
NOV 13	
COL IP	08 32 22.7
NOV 13	
EUR EP	11 00 33.5
NOV 13	
H-13 28 02.8	
07.4S 125.4E	
h ABOUT 368KM	
EUR EP'	13 46 05.8
NOV 13	
COL EP	13 45 27.0
NOV 13	
COL IP	14 37 56.1
NOV 13	
COL EP	15 07 10.0
NOV 13	
H-15 15 27.4	
18.1S 178.4W	
h ABOUT 574KM	
EUR IP	15 26 47.3
TUC EP	15 26 49.2
COL IP	15 27 06.0
BOZ EP	15 27 15.7
NOV 13	
BOZ EP	17 56 15.0
E(L)	56 25.0
NOV 13	
COL EP	19 13 56.7
NOV 13	
COL EP	19 33 24.0
HHM EP	19 38 36.1
NOV 13	
TUC E(P)	20 33 41.5
EL	34 01.4
NOV 13	
TUC E(P)	20 35 18.2
EL	35 41.7
NOV 13	
COL EP	21 18 24.0
NOV 13	
COL EP	21 26 03.0
NOV 13	
COL EP	21 52 25.0
TUC E(P)	21 53 13.3

Date and Station	Phase (GCT)
	h m s
NOV 13	
TUC E(P)	21 55 30.1
EL	55 46.0
NOV 13	
H-21 57 30.0	
29.2S 178.1W	
h ABOUT 077KM	
TUC E(P)	22 10 10.5
EUR EP	22 10 19.8
EUR EP	22 10 23.2
ALQ E(P)	22 10 34.8
BOZ E(P)	22 10 49.5
COL E	22 10 49.9
NOV 13	
SLC E(P)	22 07 25.2
BOZ EP	22 08 12.0
E	08 32.7
HHM EP	22 08 15.3
IS	08 40.1
NOV 13	
GUA E(P)	22 18 50.0
E(S)	20 41.0
NOV 13	
EUR IP	22 21 54.4
NOV 13	
EUR IP	22 28 40.0
NOV 13	
TUC E(P)	22 42 20.6
NOV 13	
TUC E(P)	23 09 59.3
NOV 13	
H-23 09 53.8	
44.8N 111.0W	
h ABOUT 020KM	
BOZ IP	23 10 11.0
E(L)	10 22.0
BUT IP	23 10 24.0
HHM EP	23 10 59.1
I	10 10.7
ES	11 37.8
EL	12 05.8
EUR EP	23 11 38.7
NOV 14	
COL E(P)	00 53 19.2
NOV 14	
EUR EP	01 45 43.7
COL E(P)	01 47 46.0
NOV 14	
TUC E(P)	01 50 31.6

Date and Station	Phase (GCT)
	h m s
NOV 14	
H-03 56 06.0	
33.6N 131.6E	
h ABOUT 060KM	
GUA EP	04 01 06.5
E(S)	05 08.0
COL IP	04 05 41.0
HHM IP	04 08 08.7
BUT IP	04 08 20.8
I▸P	08 37.0
BOZ EP	04 08 24.1
E▸P	08 41.5
EUR IP	04 08 32.1
SLC EP	04 08 40.9
BCN EP	04 08 47.0
I▸P	09 04.5
RCD EP D	04 08 51.0
E▸P	09 09.0
TUC EP	04 09 10.4
E▸P	09 27.7
ALQ IP	04 09 14.5
I▸P	09 31.4
NOV 14	
TUC E(P)	05 11 30.6
COL EP	05 13 38.1
NOV 14	
H-05 56 47.8	
36.6N 140.3E	
h ABOUT 090KM	
COL EP	06 05 34.0
BOZ EP	06 08 24.5
E	08 39.8
EUR IP	06 08 31.3
TUC E(P)	06 09 11.7
E▸P	09 33.9
ALQ IP	06 09 18.3
NOV 14	
COL E(P)	07 14 59.2
EUR EP	07 15 53.7
I	16 27.7
NOV 14	
COL EP	08 24 51.0
NOV 14	
EUR EP	08 45 14.1
NOV 14	
H-10 42 14.9	
60.2N 149.4W	
h ABOUT 047KM	
COL IP	10 43 25.8

Date and Station	Phase (GCT)
	h m s
NOV 14	
COL E(P)	11 19 11.0
NOV 14	
COL EP	12 13 55.8
NOV 14	
H-12 52 46.3	
18.2N 105.5W	
h ABOUT 033KM	
TUC EP	12 56 15.3
E(S)	58 45.0
ALQ IP	12 56 40.7
E	13 01 52.0
BCN EP	12 57 15.5
E	57 29.8
EUR IP	12 57 51.1
SLC EP	12 57 51.1
RCD EP	12 58 15.0
E	58 39.0
CSC EP	12 58 26.0
E	58 37.0
BUT EP	12 58 40.6
HHM EP	12 59 02.4
COL EP	13 02 14.0
NOV 14	
COL E(P)	13 13 09.6
NOV 14	
HHM E(P)	13 44 35.2
NOV 14	
EUR EP	14 07 05.2
NOV 14	
COL EP	14 40 41.5
NOV 14	
H-16 54 50.7	
5.3S 146.8E	
h ABOUT 228KM	
COL EP	17 07 00.0
NOV 14	
COL EP	17 17 10.4
TUC E(P)	17 22 49.3
E	23 13.3
NOV 14	
TUC E(P)	17 55 00.9
E	55 33.3
NOV 14	
HHM IP	18 02 23.2
NOV 14	
COL IP	18 40 29.2
NOV 14	
HHM IP	19 15 09.2

Date and Station	Phase (GCT)
	h m s
NOV 14	
COL EP	19 50 39.0
TUC E(P)	19 51 01.2
E	51 41.6
NOV 14	
COL EP	19 54 22.0
NOV 14	
RCD EP	20 28 32.5
E(S)	28 36.0
NOV 14	
TUC E(P)	20 52 11.5
E	52 45.5
NOV 14	
SLC EP	22 01 52.8
EUR EP	22 02 38.7
NOV 14	
TUC E(P)	22 36 28.6
NOV 14	
TUC E(P)	22 37 58.4
NOV 14	
COL E(P)	22 56 08.3
NOV 14	
SLC E(P)	23 06 37.4
E	07 01.4
NOV 15	
TUC E(P)	00 02 36.6
NOV 15	
H-00 15 59.2	
32.4N 118.5W	
h ABOUT 020KM	
BCN IP D	00 17 09.0
EL	18 34.5
EUR IP	00 17 47.4
NOV 15	
COL EP	00 22 29.0
NOV 15	
H-00 31 32.0	
18.5N 105.6W	
h ABOUT 033KM	
TUC EP	00 34 56.1
E(L)	38 10.0
ALQ IP	00 35 24.0
BCN EP	00 35 56.9
EUR IP	00 36 32.6
NOV 15	
TUC E(P)	00 49 48.6
BCN E(P)	00 50 49.5
NOV 15	
H-00 55 36.7	
36.1N 139.6E	
h ABOUT 071KM	

Date and Station	Phase (GCT)
	h m s
COL IP	01 04 30.5
HHM EP	01 07 03.2
BOZ EP	01 07 20.2
EUR IP	01 07 27.3
BCN EP	01 07 43.0
TUC EP	01 08 07.6
NOV 15	
COL E(P)	01 07 38.1
NOV 15	
TUC E(P)	01 32 49.2
NOV 15	
HHM E(P)	01 49 05.9
NOV 15	
H-02 26 07.3	
19.2N 108.9W	
h ABOUT 033KM	
TUC EP	02 29 13.2
NOV 15	
HHM EP	03 14 46.1
NOV 15	
TUC E(P)	03 33 25.8
NOV 15	
H-04 34 30.3	
9.4N 126.3E	
h ABOUT 062KM	
COL EP	04 46 33.0
NOV 15	
COL EP	05 10 06.0
NOV 15	
EUR EP	05 32 06.1
I	32 40.2
NOV 15	
H-06 33 23.5	
35.6N 045.7E	
h ABOUT 033KM	
COL EP	06 45 27.0
NOV 15	
COL E(P)	07 11 07.5
NOV 15	
H-07 22 08.0	
18.0S 178.3W	
h ABOUT 608KM	
KIP EP	07 29 24.0
EUR EP	07 33 24.9
TUC EP	07 33 26.0
COL IP	07 33 43.8
E	33 56.6
BOZ EP	07 33 53.3

Date and Station	Phase (GCT)
	h m s
NOV 15	
COL IP	08 16 27.6
NOV 15	
H-09 33 46.7	
29.9N 051.0E	
h ABOUT 033KM	
COL EP	09 46 17.0
NOV 15	
COL E(P)	09 49 08.6
NOV 15	
COL EP	11 47 36.5
NOV 15	
BCN E(P)	13 17 25.0
NOV 15	
COL EP	13 18 45.0
NOV 15	
BCN EP	13 41 06.2
NOV 15	
ALQ E(P)	13 46 15.2
NOV 15	
ALQ E(P)	14 07 02.0
NOV 15	
HHM E(P)	14 11 49.3
E	11 57.3
NOV 15	
H-14 12 49.6	
17.9N 105.9W	
h ABOUT 033KM	
ALQ IP	14 16 48.3
EUR EP	14 17 56.8
BOZ E(P)	14 18 40.6
COL EP	14 22 15.8
NOV 15	
BCN EP	14 47 07.0
NOV 15	
ALQ E(P)	14 52 30.0
NOV 15	
COL E(P)	15 16 38.2
NOV 15	
H-15 42 34.4	
17.8N 105.9W	
h ABOUT 033KM	
TUC E(P)	15 46 07.3
ALQ IP	15 46 33.3
IS	49 40.0
EUR EP	15 47 41.3
BOZ EP	15 48 25.0
NOV 15	
BCN E(P)	15 42 53.5

Date and Station	Phase (GCT)
	h m s
NOV 15	
RCD EP	15 51 35.0
NOV 15	
H-15 52 21.5	
24.0N 122.2E	
h ABOUT 042KM	
COL EP	16 03 21.0
HHM IP	16 05 28.8
BUT EP	16 05 38.7
BOZ E(P)	16 05 41.8
EUR IP	16 05 49.9
NOV 15	
EUR EP	16 42 23.6
ALQ E(P)	16 44 11.0
NOV 15	
COL E	16 51 37.0
NOV 15	
TUC E(P)	17 01 18.0
NOV 15	
H-17 12 43.9	
36.5N 070.9E	
h ABOUT 220KM	
COL EP	17 23 58.0
NOV 15	
SLC E	18 55 27.8
NOV 15	
TUC E(P)	19 45 03.0
E	45 35.7
NOV 15	
COL E	19 53 38.0
NOV 15	
H-20 03 49.6	
34.9N 005.2W	
h ABOUT 003KM	
BOZ EP	20 15 39.7
COL EP	20 15 41.0
BUT IP	20 15 41.2
EUR EP	20 16 14.8
TUC EP	20 16 20.5
E	16 26.2
NOV 15	
COL EP	20 37 44.0
NOV 15	
TUC EP	21 57 05.9
EL	57 24.3
NOV 15	
EUR EP	23 03 43.2
NOV 15	
COL E(P)	23 12 13.5

Date and Station	Phase (GCT)
	h m s
NOV 15	
COL EP	23 19 09.0
NOV 15	
EUR EP	23 40 03.6
NOV 15	
H-23 57 20.9	
47.2N 147.3E	
h ABOUT 297KM	
COL IP	24 04 15.0
COL IP	24 04 15.5
HHM IP	24 07 09.0
BUT EP	24 07 23.7
EPCP	07 56.6
EUR IP	24 07 40.1
NOV 16	
HHM EP	00 13 41.6
NOV 16	
TUC E(P)	00 16 00.8
NOV 16	
COL EP	00 21 16.3
NOV 16	
TUC E(P)	01 01 07.8
NOV 16	
TUC E(P)	01 02 30.0
NOV 16	
COL EP	01 14 43.0
NOV 16	
COL IP	02 13 08.1
NOV 16	
H-02 46 43.4	
36.9N 121.8W	
h ABOUT 033KM	
UKI E(P)	02 47 21.0
EUR EP	02 47 59.6
BCN EP	02 48 08.0
I	48 27.7
SLC E	02 48 54.2
E	51 07.2
TUC E(P)	02 49 06.5
E(L)	51 00.0
BUT IP	02 49 33.2
EL	52 43.2
BOZ IP C	02 49 36.0
ES	51 44.0
HHM EP	02 49 44.9
I	49 54.2
ALQ EIP	02 49 47.5
I	50 14.0
I	50 38.0

Date and Station	Phase (GCT)
	h m s
RCD EP	02 50 27.0
E	50 41.0
COL EP	02 53 10.0
CSC E(P)	02 53 25.0
NOV 16	
COL E(P)	02 59 54.0
NOV 16	
H-04 47 27.5	
36.3N 070.4E	
h ABOUT 225KM	
COL IP	04 58 43.1
NOV 16	
H-05 27 33.8	
39.8N 039.9E	
h ABOUT 039KM	
COL IP	05 39 13.1
HHM EP	05 40 29.7
BOZ E(P)	05 40 39.4
NOV 16	
COL EP	05 37 28.0
TUC E(P)	05 41 04.5
NOV 16	
COL EP	05 49 03.0
NOV 16	
H-05 59 57.4	
49.7N 078.0E	
h ABOUT 000KM	
COL IP	06 10 08.9
HHM IP	06 12 18.7
BUT IP	06 12 32.5
BOZ IP C	06 12 34.5
EUR IP	06 13 02.9
BCN EP	06 13 20.2
NOV 16	
COL EP	06 32 50.0
NOV 16	
COL E(P)	08 08 06.9
NOV 16	
COL E(P)	08 27 41.3
HHM IP	08 29 11.1
NOV 16	
COL IP	08 32 30.0
NOV 16	
BHP IP C	08 34 46.0
IS	38 09.0

Date and Station	Phase (GCT)
	h m s
NOV 16	
H-08 54 08.9	
56.1S 027.5W	
h ABOUT 163KM	
COL IP'	09 13 40.2
NOV 16	
EUR EP	09 21 14.1
NOV 16	
H-09 34 42.3	
22.8S 171.6E	
h ABOUT 025KM	
COL E(P)	09 47 58.5
NOV 16	
HHM EP	10 12 05.1
E	12 16.4
NOV 16	
COL IP	10 29 03.1
NOV 16	
COL E(P)	11 03 31.2
NOV 16	
HHM EP	11 15 19.6
NOV 16	
BOZ EP	11 58 14.5
E	58 20.5
EUR EP	11 58 39.0
COL IP	12 00 06.0
NOV 16	
H-12 16 19.3	
47.1N 154.1E	
h ABOUT 033KM	
COL IP	12 23 14.7
BOZ E(P)	12 26 35.7
EUR E(P)	12 26 51.4
NOV 16	
COL EP	12 29 29.0
NOV 16	
H-12 38 29.7	
47.4N 154.2E	
h ABOUT 033KM	
COL IP	12 45 23.1
HHM E(P)	12 48 21.2
BOZ EP	12 48 40.7
EUR EP	12 48 50.0
NOV 16	
COL EP	12 59 50.0
NOV 16	
H-13 50 58.5	
48.3N 154.6E	
h ABOUT 033KM	
COL IP	13 57 43.3

Date and Station	Phase (GCT)
	h m s
BOZ IP	14 01 05.0
EUR E(P)	14 02 14.6
NOV 16	
HHM IP	13 55 18.6
NOV 16	
COL E(P)	14 16 06.0
NOV 16	
HHM E(P)	14 51 22.9
NOV 16	
TUC EP	15 49 43.8
EL	50 03.5
NOV 16	
COL EP	16 49 33.0
NOV 16	
H-16 53 17.8	
16.5N 098.0W	
h ABOUT 103KM	
ALQ IP	16 57 43.2
I	57 47.7
EUR EP	16 58 58.6
BOZ E(P)	16 59 30.2
COL EP	17 03 06.0
NOV 16	
EUR EP	17 34 40.8
COL IP	17 34 45.0
NOV 16	
H-18 21 14.5	
50.0N 156.5E	
h ABOUT 033KM	
COL IP	18 27 39.5
BOZ EP	18 31 06.2
EUR EP	18 31 17.9
NOV 16	
HHM EP	19 12 58.2
NOV 16	
TUC E(P)	20 25 29.0
E	25 33.2
E(L)	26 05.9
NOV 16	
H-20 35 06.0	
51.6N 178.5E	
h ABOUT 033KM	
COL IP	20 39 58.2
HHM EP	20 42 55.1
BOZ IP C	20 43 19.3
EUR IP	20 43 29.4
TUC EP	20 44 27.8
ALQ IP	20 44 34.4

Date and Station	Phase (GCT)
	h m s
NOV 16	
COL EP	21 03 41.6
NOV 16	
TUC E(P)	21 04 52.9
EL	05 10.1
NOV 16	
SLC EP	21 56 37.1
ES	56 55.5
NOV 16	
GUA E(P)	22 04 22.1
E(S)	04 36.0
NOV 16	
H-22 09 48.3	
85.8N 088.3E	
h ABOUT 033KM	
COL EP	22 15 38.0
BOZ E(P)	22 18 31.9
EUR IP	22 19 15.5
ALQ EP	22 19 47.0
I	19 54.7
TUC E(P)	22 20 06.1
NOV 16	
BCN EP	22 12 37.0
NOV 16	
H-22 40 44.0	
01.0N 118.8E	
h ABOUT 033KM	
COL E(P)	22 53 43.5
BOZ EP'	22 59 25.4
EUR EP'	22 59 25.9
ALQ IP'	22 59 43.2
I	59 50.0
TUC E(P')	22 59 46.9
NOV 16	
COL EP	22 57 09.0
NOV 16	
H-23 05 29.2	
15.8S 173.0W	
h ABOUT 012KM	
BCN EP	23 17 15.0
TUC E(P)	23 17 20.7
BOZ EP	23 17 53.2
E	18 12.5
COL IP	23 17 53.3
NOV 16	
ALQ E(P)	23 07 48.0
E	08 19.5
E	13 11.5
NOV 16	
TUC EP	23 09 33.1

Date and Station	Phase	(GCT)
		h m s
EUR	EP	23 10 03.2
COL	IP	23 15 26.8
NOV 16		
COL	EP	23 35 23.0
NOV 17		
H-00 01 17.1		
16.3S 173.7W		
h ABOUT 033KM		
BCN	EP	00 13 04.2
TUC	EP	00 13 09.8
EUR	EP	00 13 10.7
ALQ	IP	00 13 34.0
	I	13 46.0
BUT	E(P)	00 13 37.0
COL	IP	00 13 42.2
NOV 17		
COL	EP	01 04 42.0
EUR	IP	01 08 37.6
NOV 17		
H-02 46 35.2		
55.5S 027.9W		
h ABOUT 115KM		
COL	IP'	03 06 12.2
NOV 17		
COL	E(P)	05 32 44.6
NOV 17		
TUC	E(P)	05 38 36.5
COL	EP	05 39 08.0
ALQ	E(P)	05 39 09.0
NOV 17		
EUR	EP	06 17 19.5
	I	18 12.4
NOV 17		
COL	E	06 40 16.2
NOV 17		
BOZ	E(P)	07 20 37.0
NOV 17		
BOZ	EP	07 34 49.0
PHI	EP	07 36 30.4
NOV 17		
BOZ	E(P)	07 55 18.4
NOV 17		
H-08 08 56.7		
23.5S 175.7W		
h ABOUT 320KM		
TUC	EP	08 20 48.5
COL	IP	08 21 25.5
	I	28 01.7

Date and Station	Phase	(GCT)
		h m s
NOV 17		
H-08 15 39.3		
05.7S 150.7E		
h ABOUT 045KM		
GUA	IP	08 20 14.0
	ES	23 50.0
HON	IP C	08 25 23.1
	IS	33 14.0
	ESS	37 20.0
	EL	39 05.0
KIP	IP C	08 25 23.6
	ES	33 18.0
	ESS	37 23.0
	EL	39 04.0
COL	IP	08 28 01.5
SIT	EP	08 28 17.0
	ES	38 46.0
UKI	EP	08 28 38.7
	EPP	32 13.7
EUR	IP	08 29 04.8
BCN	IP C	08 29 08.8
	EPP	32 56.0
	ES	40 23.0
	ESP	41 24.5
	EP'P'	54 02.5
	EL	09 00 19.0
BUT	EP	08 29 15.1
	EPKKP	45 42.1
	EP'P'	53 56.1
SLC	EP	08 29 18.1
BOZ	EP	08 29 18.5
	ESKS	39 56.0
TUC	EP C	08 29 24.3
	IPP	33 27.0
	E(SKS)	40 14.0
ALQ	IP	08 29 40.0
RCD	EP	08 29 48.0
WAS	EP'	08 34 37.4
CSC	IP'	08 34 40.0
BHP	IP'	08 34 46.0
	ISKP	38 09.0
NOV 17		
EUR	EP	08 55 25.8
	I	56 12.7
NOV 17		
H-10 11 00.1		
44.6N 110.9W		
h ABOUT 033KM		
BOZ	IP	10 11 19.3
	ES	11 34.0
BUT	IP	10 11 31.0
	IS	11 55.0

Date and Station	Phase	(GCT)
		h m s
HHM	EP	10 12 05.1
EUR	IP	10 12 36.0
NOV 17		
H-11 03 06.8		
23.4S 179.9W		
h ABOUT 549KM		
HON	IP	11 11 06.9
KIP	IP	11 11 07.0
UKI	EP	11 14 29.7
BCN	IP C	11 14 47.4
	E▸P	16 46.3
	EPP	18 13.5
TUC	IP C	11 14 52.3
	E▸P	16 50.8
EUR	IP	11 14 52.6
SLC	IP	11 15 07.9
ALQ	IP	11 15 12.0
	I▸P	17 16.0
COL	IP	11 15 13.9
	I▸P	17 14.8
BUT	IP	11 15 19.0
BOZ	IP	11 15 20.3
	E▸P	17 21.3
NOV 17		
COL	EP	11 53 12.0
NOV 17		
COL	E(P)	13 53 29.7
NOV 17		
H-14 37 52.6		
03.5S 150.1E		
h ABOUT 033KM		
EUR	EP	14 51 16.4
NOV 17		
H-14 52 26.5		
33.8N 116.5W		
h ABOUT 014KM		
BCN	IP	14 53 10.0
	I(S)	53 39.5
	IL	53 50.5
TUC	E(P)	14 53 43.0
	E	54 04.5
EUR	IP	14 53 54.5
	IL	55 26.5
ALQ	E(P)	14 54 44.0
NOV 17		
SLC	EP	15 59 24.9
NOV 17		
H-16 17 03.0		
13.2N 089.6W		
h ABOUT 054KM		

Date and Station	Phase	(GCT)
		h m s
ALQ	EP	16 22 37.5
TUC	E(P)	16 22 45.3
EUR	EP	16 23 52.2
BOZ	EP	16 24 12.2
COL	IP	16 27 36.2
NOV 17		
TUC	E(P)	16 24 43.0
	E(L)	25 02.0
NOV 17		
EUR	EP	16 30 03.1
BOZ	E(P)	16 30 09.8
NOV 17		
H-17 40 57.4		
0 .1S 122.9E		
h ABOUT 160KM		
COL	IP	17 53 39.7
	E	54 14.8
EUR	EP'	17 59 17.9
BOZ	EP'	17 59 19.3
TUC	EP'	17 59 32.0
ALQ	IP'	17 59 36.3
NOV 17		
BOZ	E(P)	18 10 07.7
NOV 17		
TUC	E(P)	18 37 08.2
NOV 17		
H-19 00 10.4		
12.7N 144.9E		
h ABOUT 043KM		
GUA	IP	19 00 27.0
COL	IP	19 11 11.9
EUR	IP	19 13 03.5
BUT	E(P)	19 13 04.0
BOZ	E(P)	19 13 09.4
BCN	E(P)	19 13 12.5
SLC	EP	19 13 15.9
ALQ	E(P)	19 13 55.7
HON	E	19 17 32.0
	EL	22 46.0
NOV 17		
TUC	EP	19 36 30.5
	EL	36 49.0
NOV 17		
TUC	E(P)	21 02 52.3

Date and Station	Phase (GCT) h m s
NOV 17	
BOZ EP	21 46 46.5
E(L)	47 34.0
NOV 17	
SLC EP	22 00 05.9
ES	00 22.9
TUC EP	22 02 06.0
EL	02 23.3
NOV 17	
COL EP	22 05 24.0
TUC E(P)	22 06 31.4
NOV 17	
TUC E(P)	22 17 27.5
E	17 51.6
NOV 17	
TUC E(P)	22 38 57.0
NOV 17	
COL EP	22 48 55.5
NOV 17	
H-22 50 53.7	
36.7N 035.2E	
h ABOUT 037KM	
COL EP	23 02 54.0
NOV 17	
TUC E(P)	22 58 55.7
NOV 17	
SLC EP	23 13 38.9
NOV 18	
H-00 11 55.8	
10.3S 075.9W	
h ABOUT 024KM	
TUC E(P)	00 21 10.0
ALQ E(P)	00 21 15.8
NOV 18	
COL E(P)	01 37 09.0
NOV 18	
COL EP	01 40 01.3
E	40 08.3
NOV 18	
H-03 24 53.9	
9.6S 116.8E	
h ABOUT 082KM	
EUR EP'	03 43 48.0
NOV 18	
COL E(P)	03 48 40.8
NOV 18	
COL EP	04 00 51.0
NOV 18	
H-04 03 58.0	
13.1S 075.0W	
h ABOUT 080KM	
ALQ E(P)	04 13 32.3
TUC EP	04 13 35.0
E	14 01.5
EUR EP	04 14 31.1
BOZ EP	04 14 45.3
E	15 11.0
COL E	04 17 12.0
NOV 18	
H-05 01 41.4	
31.2S 067.6W	
h ABOUT 008KM	
CSC EP	05 12 31.0
TUC EP C	05 13 26.3
E	13 31.8
BCN EP	05 13 54.5
E	14 01.0
RCD EP	05 14 02.0
EUR IP	05 14 11.4
BOZ EP	05 14 24.9
E	14 30.0
BUT EP	05 14 28.8
HHM IP	05 14 39.7
NOV 18	
ALQ IP	05 18 27.3
NOV 18	
TUC E(P)	05 47 15.0
NOV 18	
EUR EP	06 17 19.5
TUC E(P)	06 18 08.5
NOV 18	
ALQ E(P)	08 26 28.0
NOV 18	
COL E(P)	08 36 30.9
NOV 18	
TUC E(P)	08 56 12.8
NOV 18	
TUC E(P)	10 03 03.2
E	03 14.5
NOV 18	
ALQ I(P)	10 22 17.7
NOV 18	
EUR EP	10 24 40.6
BOZ EP	10 24 56.4
NOV 18	
H-10 26 50.0	
44.1N 114.1W	
h ABOUT 033KM	
BUT E(P)	10 27 24.0
IS	27 50.8
BOZ EP	10 27 24.6
E	27 28.2
EL	28 00.5
HHM EP	10 27 55.9
EUR EP	10 28 01.0
NOV 18	
HHM EP	10 38 20.3
EL	38 27.8
NOV 18	
COL EP	10 43 03.0
NOV 18	
HHM E(P)	11 10 00.2
NOV 18	
EUR EP	11 46 44.1
ALQ E(P)	11 46 51.5
BOZ EP	11 47 00.5
NOV 18	
COL EP	12 17 19.2
NOV 18	
H-13 21 47.2	
51.7N 174.2W	
h ABOUT 012KM	
COL EP	13 26 09.0
HHM E(P)	13 29 06.9
BOZ EP	13 29 27.0
E	29 42.5
EUR EP	13 29 36.1
BCN E(P)	13 30 11.5
RCD E(P)	13 30 27.0
ALQ E(P)	13 30 44.0
NOV 18	
EUR EP	14 20 20.5
NOV 18	
COL E(P)	14 31 30.6
NOV 18	
H-14 34 54.5	
06.0S 148.2E	
h ABOUT 049KM	
GUA IP	14 39 25.0
IS	43 15.0
KIP IP	14 44 53.6
ES	52 58.0
EL	59 20.0
HON EP	14 44 54.0
E	49 10.0
ES	53 07.0
ESS	57 04.0
EL	59 12.0
COL IP	14 47 21.3
EUR IP	14 48 29.1
HHM EP	14 48 33.6
BOZ EP	14 48 42.0
NOV 18	
COL EP	14 39 25.0
NOV 18	
ALQ E(P)	14 52 32.7
E	53 16.8
NOV 18	
EUR EP	15 04 58.3
COL EP	15 05 33.2
NOV 18	
HHM EP	15 13 10.3
EUR IP	15 13 16.5
COL E(P)	15 13 32.6
NOV 18	
COL EP	16 05 50.8
NOV 18	
SLC EP	16 32 10.0
ES	32 32.3
NOV 18	
TUC IP	16 45 39.2
E(S)	45 48.4
NOV 18	
TUC EP	16 57 37.7
ES	57 57.3
NOV 18	
HHM IP	17 08 09.4
EL	08 16.7
NOV 18	
COL IP	17 16 04.8
NOV 18	
EUR EP	17 52 23.6
NOV 18	
TUC EP	18 11 06.6
E(S)	11 28.5
NOV 18	
ALQ E(P)	18 20 17.2
NOV 18	
ALQ E(P)	18 23 31.0
NOV 18	
SLC E(P)	18 58 43.4
E	59 16.0
NOV 18	
BOZ E(P)	19 05 21.5
E	05 34.4
NOV 18	
COL EP	20 07 30.0
NOV 18	
TUC E(P)	21 08 29.3

Date and Station	Phase (GCT)
	h m s
NOV 18	
TUC E(P)	21 56 12.9
E(S)	56 31.2
NOV 18	
H-22 21 01.9	
20.2S 174.1W	
h ABOUT 033KM	
KIP EP	22 29 14.0
GUA IP	22 30 16.0
UKI E(P)	22 32 47.5
BCN EP D	22 33 06.0
TUC EP	22 33 10.0
ES	43 17.0
EUR IP	22 33 12.3
SLC IP	22 33 30.5
ALQ IP	22 33 33.8
I	33 46.7
BUT E(P)	22 33 41.0
HHM EP	22 33 43.8
BOZ EP	22 33 43.9
ES	44 26.4
COL IP	22 33 47.1
HON ES	22 35 48.0
EL	39 05.0
NOV 18	
COL EP	22 44 48.0
NOV 18	
SLC E(P)	23 05 04.0
NOV 18	
H-23 35 03.9	
20.1S 174.3W	
h ABOUT 033KM	
BCN EP	23 47 08.0
EUR IP	23 47 15.1
ALQ IP	23 47 35.6
BOZ EP	23 47 45.5
COL IP	23 47 49.3
NOV 19	
COL EP	00 02 07.0
NOV 19	
COL E(P)	00 34 29.4
NOV 19	
EUR EP	01 01 49.2
NOV 19	
COL E(P)	01 10 33.2
EUR EP	01 13 38.7

Date and Station	Phase (GCT)
	h m s
NOV 19	
HHM IP	01 31 49.9
IL	31 58.9
BUT E(P)	01 32 25.0
EL	33 02.9
BOZ E(P)	01 32 31.7
E(L)	33 25.0
NOV 19	
COL EP	03 42 31.2
NOV 19	
COL EP	03 42 52.0
NOV 19	
COL EP	03 47 40.7
TUC E(P)	03 51 40.3
NOV 19	
COL IP	03 59 19.1
NOV 19	
COL EP	04 39 35.3
E	39 48.5
NOV 19	
COL EP	04 54 36.0
EUR EP	04 54 52.5
BOZ E(P)	04 57 57.6
NOV 19	
EUR EP	04 58 06.2
NOV 19	
COL EP	05 01 06.1
NOV 19	
COL IP	05 42 39.7
NOV 19	
EUR EP	05 53 31.3
NOV 19	
COL E(P)	07 07 38.8
NOV 19	
RCD E(P)	07 31 39.0
NOV 19	
EUR EP	08 02 10.0
I	02 42.0
NOV 19	
COL EP	10 48 31.1
NOV 19	
COL EP	10 56 42.0
NOV 19	
COL IP	11 22 47.6
E(S)	23 32.7
NOV 19	
ALQ E(P)	11 41 48.6
NOV 19	
COL EP	11 58 51.1

Date and Station	Phase (GCT)
	h m s
NOV 19	
H-14 07 21.5	
56.0N 161.3E	
h ABOUT 033KM	
COL EP	14 12 53.0
BOZ E(P)	14 16 33.2
EUR IP	14 16 50.2
NOV 19	
COL EP	14 13 14.2
NOV 19	
H-15 45 31.2	
03.4S 150.1E	
h ABOUT 038KM	
GUA IP	15 49 36.0
ES	53 00.0
COL IP	15 57 45.2
I	57 50.5
EUR IP	15 58 53.2
HHM EP	15 58 58.9
BOZ EP	15 59 06.5
HON E	16 03 17.0
EL	11 04.0
NOV 19	
H-16 15 26.2	
10.8S 166.3E	
h ABOUT 166KM	
COL EP	16 27 32.5
EpP	28 13.6
EUR IP	16 27 57.4
HHM E(P)	16 28 15.0
BOZ EP	16 28 18.8
NOV 19	
TUC E(P)	17 10 17.0
NOV 19	
TUC E(P)	17 20 04.2
E	20 29.6
NOV 19	
COL E	17 33 50.6
NOV 19	
COL E(P)	17 41 43.8
NOV 19	
EUR IP	17 57 43.1
SLC EP	17 58 09.2
ES	58 25.9
NOV 19	
TUC E(P)	18 11 58.2
E	12 05.2
ALQ E(P)	18 12 02.8

Date and Station	Phase (GCT)
	h m s
NOV 19	
TUC E(P)	18 48 16.6
NOV 19	
COL EP	19 00 51.6
NOV 19	
GUA EP	20 03 54.0
IS	04 09.0
NOV 19	
TUC EP	20 10 13.0
E(L)	10 32.5
NOV 19	
TUC E(P)	20 28 15.8
E	29 11.3
NOV 19	
EUR EP	21 13 31.0
NOV 19	
COL IP	21 21 56.3
I	22 07.1
TUC E(P)	21 27 05.6
E	27 34.2
NOV 19	
TUC EP	21 56 50.5
EL	57 08.6
NOV 19	
BCN EP	22 45 22.0
EL	45 52.5
NOV 19	
COL EP	22 55 54.4
NOV 19	
H-23 35 06.0	
6.0S 150.8E	
h ABOUT 003KM	
GUA EP	23 39 47.2
KIP IP	23 44 57.3
HON IP	23 44 57.5
IS	52 56.0
COL EP	23 47 35.3
I	47 40.1
I	48 59.3
COL EP	23 47 36.0
SIT E(P)	23 47 52.6
UKI E(P)	23 48 14.0
EUR IP	23 48 37.8
I	53 38.6
BCN EP	23 48 41.8
EPP	52 37.9
EP'P'	00 13 44.0
HHM EP	23 48 44.9
BUT E(P)	23 48 50.0
ESKS	59 30.0
SLC EP	23 48 54.2

Date and Station	Phase (GCT)
	h m s
TUC EP	23 48 58.2
E	49 10.6
EPP	53 01.9
E(SKS)	59 48.0
ALQ IP	23 49 14.8
CSC EP'	23 54 12.0
BHP IP'D	23 54 20.0
ISKP	57 44.0
NOV 19	
TUC E(P)	23 38 25.1
E	38 45.8
NOV 19	
BOZ EP	23 42 41.7
NOV 19	
TUC EP	23 47 12.4
NOV 19	
H-23 55 06.8	
6.9S 149.9E	
h ABOUT 033KM	
KIP EP	24 04 58.8
HON EP	24 05 00.0
COL EP	24 07 38.0
BCN EP	24 08 43.5
ALQ EP	24 09 16.8
NOV 20	
ALQ IP	00 05 23.2
NOV 20	
COL EP	00 44 06.1
E	44 23.4
NOV 20	
H-00 56 21.3	
.6N 156.3E	
h ABOUT 033KM	
GUA EP	01 00 20.0
COL E(P)	01 08 04.4
EUR EP	01 09 09.0
NOV 20	
H-01 23 40.6	
6.2S 150.4E	
h ABOUT 061KM	
GUA IP	01 28 16.0
COL EP	01 36 04.2
E>P	36 21.5
EUR IP	01 37 07.5
NOV 20	
H-01 35 38.4	
5.5S 150.1E	
h ABOUT 091KM	
COL EP	01 47 57.6

Date and Station	Phase (GCT)
	h m s
NOV 20	
GUA IP	02 34 24.0
E(S)	36 29.0
COL E(P)	02 42 10.9
EUR EP	02 45 20.6
NOV 20	
H-03 01 52.3	
06.2S 150.5E	
h ABOUT 044KM	
GUA EP	03 06 28.0
COL E	03 14 16.8
EUR EP	03 15 21.1
NOV 20	
EUR EP	03 02 32.1
NOV 20	
COL E(P)	04 04 26.0
NOV 20	
COL E(P)	04 35 35.7
E	36 25.8
NOV 20	
H-04 50 55.3	
59.6N 148.2W	
h ABOUT 033KM	
COL IP	04 52 14.7
I	52 31.5
SIT IP	04 52 37.3
ES	53 55.0
HHM EP	04 55 57.3
BOZ E(P)	04 56 25.5
E	56 39.7
EUR IP	04 56 50.8
TUC EP	04 58 03.3
NOV 20	
COL E(P)	05 41 29.6
NOV 20	
TUC E(P)	06 01 58.0
NOV 20	
COL EP	06 46 16.9
E	46 40.9
NOV 20	
COL IP	06 57 08.0
NOV 20	
COL EP	07 02 00.5
NOV 20	
BHP IP	07 09 33.0
IS	10 36.0
NOV 20	
COL IP	07 32 09.4
I	32 18.2
EUR EP	07 33 11.0

Date and Station	Phase (GCT)
	h m s
NOV 20	
GUA EP	08 26 50.5
NOV 20	
COL E(P)	08 53 03.2
E	53 55.0
NOV 20	
RCD IP	09 47 59.0
NOV 20	
H-09 50 13.5	
.2S 018.2W	
h ABOUT 033KM	
ALQ IP	10 03 06.3
BOZ E(P)	10 03 23.0
EUR EP	10 03 39.4
NOV 20	
H-10 30 36.0	
05.0S 077.8W	
h ABOUT 292KM	
BOZ EP	10 40 06.4
COL E	10 42 49.2
NOV 20	
COL E(P)	10 31 50.5
NOV 20	
GUA EP	11 43 53.0
IS	44 17.0
NOV 20	
COL E(P)	12 46 55.5
NOV 20	
COL E	13 24 16.9
NOV 20	
BCN IP D	13 55 16.8
IS	55 17.9
EUR EP	13 56 15.7
NOV 20	
BOZ EP	13 55 58.5
EL	56 11.0
BUT EP	13 56 07.5
IL	56 25.5
HHM E(P)	13 56 44.0
NOV 20	
SLC EP	15 46 17.4
NOV 20	
EUR EP	16 22 59.5
NOV 20	
H-16 34 42.8	
35.9N 138.9E	
h ABOUT 086KM	
COL IP	16 43 37.3
I	43 42.8
BOZ EP	16 46 27.6

Date and Station	Phase (GCT)
	h m s
EUR IP	16 46 34.3
NOV 20	
TUC E(P)	17 17 14.8
NOV 20	
SLC E(P)	17 29 55.9
E	30 14.9
NOV 20	
COL EP	17 32 28.8
BOZ EP	17 35 58.8
NOV 20	
EUR EP	18 06 54.4
NOV 20	
COL E(P)	18 33 21.5
NOV 20	
TUC E(P)	18 40 15.0
NOV 20	
TUC E(P)	18 42 30.5
E(L)	42 48.0
NOV 20	
TUC E(P)	19 06 05.3
NOV 20	
H-19 21 10.0	
04.9S 145.4E	
h ABOUT 152KM	
COL EP	19 33 26.0
BOZ EP	19 34 52.3
NOV 20	
EUR EP	20 43 13.9
TUC E(P)	20 43 17.8
E	43 50.6
NOV 20	
ALQ I(P)	21 00 52.9
NOV 20	
H-21 27 39.5	
63.7N 146.5W	
h ABOUT 080KM	
COL IP	21 28 03.0
HHM EP	21 32 42.2
BOZ EP	21 33 12.5
ALQ I(P)	21 34 50.0
TUC EP	21 34 55.5
NOV 20	
TUC E(P)	21 56 58.2
E(S)	57 16.1
NOV 20	
TUC E(P)	21 57 49.0
E(L)	58 07.1
NOV 20	
TUC E(P)	22 31 43.8

Date and Station	Phase	(GCT) h m s
NOV 20		
TUC	E(P)	22 34 12.0
COL	E	22 35 23.4
NOV 20		
TUC	E(P)	23 10 34.5
NOV 20		
TUC	EP	23 11 14.5
NOV 20		
TUC	E(P)	23 13 06.0
	E	14 08.0
SLC	EP	23 13 55.3
EUR	EP	23 14 38.9
NOV 20		
ALQ	E(P)	23 14 41.5
NOV 20		
H-23 33 08.9		
44.6N 149.7E		
h ABOUT 033KM		
COL	EP	23 40 38.0
KIP	E(P)	23 41 58.0
	ES	49 08.0
	EL	55 48.0
HHM	EP	23 43 27.7
BUT	EP	23 43 42.6
BOZ	IP	23 43 47.5
	E	44 02.0
EUR	IP	23 43 56.7
SLC	E(P)	23 44 05.0
BCN	EP	23 44 14.8
TUC	E(P)	23 44 39.5
HON	ES	23 49 04.0
	E	51 42.0
	E	53 14.0
	EL	55 25.0
NOV 20		
GUA	EP	23 46 09.0
COL	IP	23 47 37.0
	IS	57 56.0
BOZ	EP	23 52 38.6
NOV 20		
H-23 51 35.4		
44.6N 149.5E		
h ABOUT 033KM		
COL	IP	23 59 03.5
HHM	E(P)	24 01 55.0
	I	02 08.2
BOZ	EP	24 02 14.4
	E	02 27.6
BUT	E(P)	24 02 23.0
EUR	EP	24 02 23.5
BCN	E(P)	24 02 41.7
	E	02 55.0
TUC	E(P)	24 03 10.7
ALQ	I(P)	24 03 16.4
NOV 21		
COL	EP	00 44 13.6
NOV 21		
H-01 35 35.5		
6.7S 154.3E		
h ABOUT 103KM		
COL	EP	01 47 50.6
EUR	EP	01 48 44.9
NOV 21		
H-02 16 44.5		
01.0N 124.0E		
h ABOUT 248KM		
COL	EP	02 29 10.7
EUR	EP'	02 34 54.2
BOZ	EP'	02 34 54.5
TUC	EP'	02 35 06.5
ALQ	IP'	02 35 11.0
NOV 21		
ALQ	E(P)	02 45 14.0
TUC	E(P)	02 45 22.6
HHM	EP	02 45 50.6
	E	46 02.6
BOZ	E(P)	02 45 51.7
NOV 21		
COL	EP	03 13 27.0
NOV 21		
H-04 01 02.0		
01.9N 096.8E		
h ABOUT 033KM		
HHM	EP'	04 20 03.0
BOZ	EP'	04 20 03.0
	E	20 13.2
EUR	EP'	04 20 09.3
ALQ	EP'	04 20 13.5
NOV 21		
COL	EP	05 42 46.4
NOV 21		
H-06 19 16.0		
14.9S 167.2E		
h ABOUT 097KM		
COL	IP	06 31 48.5
	IPP	32 17.8
NOV 21		
COL	EP	06 25 40.3
NOV 21		
TUC	E(P)	07 04 10.5
BCN	E(P)	07 04 13.2
	EL	04 56.5
NOV 21		
COL	EP	07 13 50.9
NOV 21		
COL	E	07 52 40.7
NOV 21		
COL	E(P)	08 06 59.7
BOZ	EP	08 09 53.9
EUR	EP	08 10 00.7
NOV 21		
COL	EP	08 55 16.0
NOV 21		
BCN	IP	09 06 17.3
	IL	06 57.9
TUC	E(P)	09 06 30.5
NOV 21		
ALQ	E(P)	11 22 39.0
	ES	23 30.0
NOV 21		
TUC	E(P)	11 24 54.7
NOV 21		
H-11 57 00.3		
19.9S 070.4W		
h ABOUT 118KM		
ALQ	I(P)	12 07 26.5
NOV 21		
TUC	E(P)	12 31 10.2
NOV 21		
H-12 40 56.1		
44.4N 149.7E		
h ABOUT 060KM		
COL	IP	12 48 22.5
BOZ	EP	12 51 32.5
EUR	EP	12 51 41.8
ALQ	E(P)	12 52 34.7
NOV 21		
H-12 41 47.8		
6.2S 150.5E		
h ABOUT 043KM		
GUA	IP	12 46 24.0
	ES	50 14.0
KIP	IP	12 51 32.6
COL	EP	12 54 12.2
EUR	EP	12 55 15.3
BCN	EP	12 55 20.5
BOZ	EP	12 55 29.6
NOV 21		
H-13 27 34.0		
24.2N 122.4E		
h ABOUT 060KM		
COL	E(P)	13 38 30.5
HHM	EP	13 40 38.1
NOV 21		
H-13 55 42.8		
17.9N 105.8W		
h ABOUT 033KM		
TUC	E(P)	13 59 12.5
BCN	EP	14 00 13.0
EUR	EP	14 00 49.2
NOV 21		
H-14 31 13.9		
13.1N 144.4E		
h ABOUT 061KM		
GUA	IP	14 31 28.0
	IS	31 44.0
COL	EP	14 42 12.0
EUR	EP	14 44 04.3
NOV 21		
COL	E(P)	14 57 12.7
ALQ	E(P)	14 59 41.2
NOV 21		
H-15 34 13.2		
12.8N 145.2E		
h ABOUT 035KM		
GUA	IP	15 34 28.0
	I	35 49.0
COL	IP	15 45 13.3
HHM	EP	15 46 58.6
EUR	IP	15 47 04.6
BOZ	EP	15 47 09.0
BUT	E(P)	15 47 10.0
ALQ	E(P)	15 47 15.0
BCN	EP	15 47 16.5
HON	E	15 51 29.0
	EL	16 00 10.0
NOV 21		
COL	EP	15 38 08.0

Date and Station	Phase (GCT)
	h m s
NOV 21	
COL EP	15 50 51.0
NOV 21	
TUC EP C	15 54 13.5
ALQ IP	15 54 34.4
BOZ EP	15 54 46.8
EUR IP	15 54 47.4
NOV 21	
H-17 24 24.1	
4.8S 076.6W	
h ABOUT 107KM	
BOZ EP	17 34 16.0
NOV 21	
H-17 25 57.5	
32.8N 116.0W	
h ABOUT 014KM	
BCN EP	17 26 49.3
TUC EP	17 27 05.5
E	27 24.8
EL	28 21.0
EUR IP	17 27 37.0
ALQ EP	17 28 00.2
E	28 33.7
EL	30 23.2
NOV 21	
BCN E(P)	17 36 21.5
TUC E(P)	17 36 31.0
EUR E(P)	17 37 01.5
NOV 21	
EUR EP	17 37 23.4
NOV 21	
EUR I	17 38 51.6
NOV 21	
COL EP	18 01 32.3
NOV 21	
H-18 09 32.2	
41.4N 142.9E	
h ABOUT 140KM	
COL E(P)	18 17 33.4
NOV 21	
COL EP	18 59 41.2
NOV 21	
COL E(P)	19 16 32.2
NOV 21	
TUC E(P)	19 34 28.6
NOV 21	
COL EP	20 32 06.0
NOV 21	
COL EP	21 25 44.7

Date and Station	Phase (GCT)
	h m s
NOV 21	
EUR EP	22 01 56.0
SLC EP	22 02 13.2
ES	02 32.8
NOV 21	
H-22 40 11.6	
04.9S 103.6E	
h ABOUT 033KM	
HHM EP'	22 59 12.1
EUR EP'	22 59 21.4
NOV 21	
ALQ E(P)	23 03 04.9
BCN EP	23 03 14.5
E	03 20.0
NOV 21	
SLC EP	23 22 05.9
NOV 21	
H-23 26 22.3	
05.7S 150.8E	
h ABOUT 059KM	
GUA IP	23 30 55.0
EUR EP	23 39 44.8
NOV 22	
H-00 02 33.3	
24.0N 045.4W	
h ABOUT 033KM	
RCD EP	00 11 32.0
ALQ E(P)	00 11 54.0
BOZ EP	00 12 16.4
E	12 24.4
TUC EP	00 12 21.3
E	12 29.3
BCN EP	00 12 41.0
EUR EP	00 12 44.0
COL EP	00 14 04.6
I	14 14.9
NOV 22	
COL E(P)	00 05 37.4
NOV 22	
H-02 38 29.0	
17.9S 178.5W	
h ABOUT 563KM	
KIP EP	02 45 47.0
GUA EP	02 46 16.0
BCN EP	02 49 45.0
TUC IP	02 49 52.0
E	49 59.6
COL IP	02 50 08.2

Date and Station	Phase (GCT)
	h m s
ALQ IP	02 50 12.2
HHM EP	02 50 16.1
BOZ EP	02 50 18.2
NOV 22	
H-02 40 55.9	
22.1S 171.1E	
h ABOUT 106KM	
COL E(P)	02 53 52.5
NOV 22	
EUR I	02 50 35.3
NOV 22	
BCN EP	02 54 11.2
EUR I	02 54 15.6
TUC E(P)	02 54 18.2
NOV 22	
EUR EP	02 59 54.5
NOV 22	
EUR I	03 00 01.8
NOV 22	
COL E(P)	04 27 36.1
NOV 22	
H-05 10 41.2	
06.2S 150.4E	
h ABOUT 039KM	
COL EP	05 23 08.9
NOV 22	
H-05 24 01.6	
22.9S 065.7W	
h ABOUT 135KM	
ALQ IP	05 34 56.3
TUC E(P)	05 34 58.6
BOZ EP	05 35 57.8
NOV 22	
H-05 46 33.3	
06.2S 150.4E	
h ABOUT 047KM	
GUA IP	05 51 08.8
COL EP	05 58 56.0
EUR EP	06 00 00.2
BCN EP	06 00 04.2
TUC E(P)	06 00 19.5
ALQ E(P)	06 00 36.0
NOV 22	
ALQ I(P)	06 16 40.2
NOV 22	
BOZ EP	06 59 50.6

Date and Station	Phase (GCT)
	h m s
NOV 22	
H-09 00 57.0	
06.1S 150.4E	
h ABOUT 050KM	
COL EP	09 13 20.9
NOV 22	
GUA EP	09 25 20.4
NOV 22	
GUA IP	09 35 17.5
E(S)	35 30.0
NOV 22	
ALQ IP	10 40 43.6
NOV 22	
EUR EP	11 45 54.0
NOV 22	
COL IP	13 10 21.7
NOV 22	
COL E(P)	13 30 59.5
NOV 22	
COL EP	13 52 05.4
NOV 22	
TUC EP	14 36 11.8
NOV 22	
COL IP	14 50 14.8
NOV 22	
EUR EP	16 13 44.2
I	14 20.6
NOV 22	
COL E(P)	17 43 09.6
NOV 22	
H-17 52 23.0	
06.4S 150.6E	
h ABOUT 048KM	
COL EP	18 04 50.3
BOZ EP	18 06 07.2
NOV 22	
GUA IP	18 08 53.2
E(S)	09 00.0
NOV 22	
H-18 40 41.8	
04.9S 151.9E	
h ABOUT 086KM	
COL IP	18 52 53.6
EpP	53 10.5
EUR EP	18 53 55.4
BCN EP	18 53 59.2
EpP	54 16.7
NOV 22	
COL E(P)	18 42 50.8
NOV 22	
COL EP	19 29 53.1

Date and Station	Phase	(GCT) h m s
NOV 22		
H-20 11 53.0		
18.8N 101.4W		
h ABOUT 123KM		
TUC	E(P)	20 15 32.4
	E	15 40.5
ALQ	E(P)	20 15 42.3
BCN	EP	20 16 26.0
	E	16 48.5
EUR	IP	20 16 59.7
BOZ	EP	20 17 34.7
HHM	EP	20 18 01.8
COL	EP	20 21 14.8
	IPCP	22 14.7
NOV 22		
EUR	IP	20 49 50.2
NOV 22		
H-21 46 32.0		
30.8N 140.7E		
h ABOUT 082KM		
COL	E	21 55 54.4
NOV 22		
SLC	EP	22 06 54.2
	IS	07 18.5
NOV 22		
H-22 12 00.2		
32.5N 048.8E		
h ABOUT 039KM		
COL	EP	22 24 17.0
NOV 22		
TUC	E(P)	22 15 27.8
NOV 22		
SLC	E(P)	23 00 30.7
	E	00 58.9
NOV 23		
BOZ	EP	01 22 14.5
NOV 23		
GUA	IP	01 43 27.0
NOV 23		
COL	EP	02 29 04.9
NOV 23		
TUC	E(P)	02 39 43.2
ALQ	E(P)	02 40 16.0
BCN	EP	02 40 40.7
	E>P	40 52.0
COL	EP	02 44 16.7
NOV 23		
COL	E(P)	03 31 44.9
	E	31 55.7
NOV 23		
EUR	EP	03 46 04.7
NOV 23		
TUC	E(P)	04 35 38.4
NOV 23		
ALQ	I(P)	04 40 03.7
NOV 23		
H-04 45 58.4		
45.4N 150.8E		
h ABOUT 045KM		
COL	IP	04 53 15.5
EUR	EP	04 56 37.2
	E>P	56 49.7
NOV 23		
HHM	IP	05 29 06.6
	IL	29 14.6
NOV 23		
EUR	EP	06 35 02.1
NOV 23		
COL	E(P)	06 47 47.8
NOV 23		
H-06 57 58.5		
41.9N 086.1E		
h ABOUT 033KM		
COL	IP	07 08 40.0
HHM	E(P)	07 10 48.0
BOZ	EP	07 11 03.8
EUR	EP	07 11 26.7
NOV 23		
COL	E	07 51 35.0
NOV 23		
COL	EP	08 39 42.8
NOV 23		
H-09 01 11.0		
06.5S 150.7E		
h ABOUT 063KM		
COL	EP	09 13 34.3
	E>P	13 50.5
EUR	EP	09 14 36.9
NOV 23		
EUR	EP	09 06 47.8
	I	07 50.5
NOV 23		
H-10 47 16.6		
31.5S 072.0W		
h ABOUT 068KM		
ALQ	I(P)	10 58 44.4
NOV 23		
ALQ	E(P)	11 22 39.0
	ES	23 30.0
NOV 23		
COL	IP	11 47 54.4
NOV 23		
COL	IP	11 57 13.9
	ES	57 25.6
NOV 23		
COL	E(P)	12 42 30.1
NOV 23		
GUA	IP	12 45 23.0
	IS	49 09.0
NOV 23		
COL	EP	12 59 45.3
NOV 23		
H-13 15 01.7		
63.5N 157.0W		
h ABOUT 033KM		
COL	EP	13 16 05.8
NOV 23		
COL	EP	13 42 05.3
NOV 23		
TUC	E(P)	15 49 37.6
NOV 23		
COL	IP	16 17 30.1
BOZ	EP	16 20 51.0
NOV 23		
EUR	EP	16 39 56.0
NOV 23		
COL	E(P)	17 03 19.7
NOV 23		
H-18 55 35.3		
36.7N 140.7E		
h ABOUT 081KM		
COL	IP	19 04 20.7
BOZ	EP	19 07 11.3
	E	07 25.7
EUR	IP	19 07 18.9
NOV 23		
EUR	EP	19 04 21.2
NOV 23		
H-19 07 10.2		
19.1N 145.0E		
h ABOUT 220KM		
GUA	E(P)	19 08 32.0
NOV 23		
H-19 45 09.0		
56.0S 027.6W		
h ABOUT 033KM		
HHM	EP'	20 04 07.0
COL	IP'	20 04 54.5
NOV 23		
COL	EP	20 24 04.9
	E	24 34.2
NOV 23		
ALQ	I(P)	21 43 02.2
NOV 23		
EUR	EP	21 59 04.2
NOV 23		
H-22 15 47.0		
00.1S 124.5E		
h ABOUT 066KM		
COL	EP	22 28 35.3
EUR	EP'	22 34 19.4
BOZ	EP'	22 34 19.5
TUC	EP'	22 34 31.7
	E	34 45.6
ALQ	IP'	22 34 36.3
NOV 23		
TUC	E(P)	22 44 41.7
NOV 23		
SLC	E(P)	23 08 00.5
NOV 23		
SLC	EP	23 09 49.3
NOV 23		
BOZ	E(P)	23 31 15.8
EUR	EP	23 31 33.0
NOV 23		
COL	EP	23 47 33.8
	E	47 43.4
EUR	IP	23 52 51.5
NOV 23		
H-23 52 11.2		
37.6N 118.0W		
h ABOUT 010KM		
EUR	IP	23 52 51.5
BCN	E(P)	23 53 05.5
NOV 23		
H-23 52 29.7		
37.6N 118.0W		
h ABOUT 010KM		
BCN	IP	23 53 23.0
SLC	E(P)	23 54 03.8
TUC	E(P)	23 54 25.0
	EL	56 22.8
BOZ	EP	23 54 47.9
ALQ	E(P)	23 54 56.2
	EL	57 30.2
NOV 23		
BUT	E(P)	23 57 21.0

Date and Station	Phase (GCT)
	h m s
NOV 24	
GUA IP	00 26 27.2
NOV 24	
COL EP	00 59 46.9
E	01 00 18.2
NOV 24	
H-01 38 49.6	
6.3S 150.7E	
h ABOUT 033KM	
GUA EP	01 43 27.4
KIP IP	01 48 36.6
COL IP	01 51 15.3
EUR IP	01 52 18.0
BCN EP	01 52 22.4
ALQ E(P)	01 52 54.5
NOV 24	
COL EP	01 59 23.3
NOV 24	
H-02 32 28.5	
25.0N 125.0E	
h ABOUT 033KM	
HHM EP	02 45 27.0
NOV 24	
H-03 01 07.7	
45.3N 111.7W	
h ABOUT 010KM	
BOZ IP	03 01 15.7
BZM IP	03 01 20.1
BUT IP	03 01 26.5
IS	01 40.7
HHM IP	03 02 03.8
HHM EP	03 02 05.0
I	02 14.1
IL	03 00.6
SLC E(P)	03 02 27.3
RCD E(P)	03 02 52.0
NOV 24	
BOZ IP	04 08 05.4
I(S)	08 37.8
NOV 24	
BOZ EP	04 51 29.0
NOV 24	
EUR EP	05 02 51.8
NOV 24	
COL IP	05 24 51.0
NOV 24	
H-06 35 14.5	
20.2S 179.2W	
h ABOUT 660KM	

Date and Station	Phase (GCT)
	h m s
TUC E(P)	06 46 38.7
COL IP	06 46 56.5
E	49 20.8
COL IP	06 46 56.6
NOV 24	
ALQ E(P)	07 16 18.0
NOV 24	
COL E(P)	07 43 24.7
NOV 24	
COL E(P)	08 16 17.0
E	16 37.8
NOV 24	
H-09 18 46.2	
51.9N 157.5E	
h ABOUT 087KM	
COL EP	09 24 51.1
E▸P	25 11.1
EUR IP	09 28 34.2
RCD IP D	09 28 57.5
TUC EP	09 29 27.0
ALQ I(P)	09 29 30.9
NOV 24	
COL EP	09 46 33.1
E(S)	47 14.0
NOV 24	
H-10 41 33.5	
06.8S 107.4E	
h ABOUT 125KM	
HHM IP'	11 00 22.5
I▸P'	00 51.4
EUR EP'	11 00 23.2
BUT EP'	11 00 25.0
E▸P'	00 56.0
ISKP	03 34.6
BOZ EP'	11 00 29.0
E▸P'	00 58.5
ESKP	03 38.2
TUC E(P')	11 00 30.0
ISKP	04 05.2
E	04 10.8
EUR IP'	11 00 30.7
ISKP	03 40.7
BCN EP'	11 00 36.0
E▸P'	01 06.0
ISKP	03 50.0
RCD EP'	11 00 38.0
ISKP	03 57.0
E	04 04.0
ALQ IP'	11 00 47.8
I▸P'	01 16.8
SLC ISKP	11 03 48.3

Date and Station	Phase (GCT)
	h m s
NOV 24	
COL EP	11 11 38.2
E	11 50.9
NOV 24	
GUA EP	11 36 30.6
E(S)	36 49.0
NOV 24	
H-12 40 51.4	
13.1N 124.7E	
h ABOUT 005KM	
GUA IP	12 45 22.5
KIP EP	12 52 32.0
HON E(P)	12 52 40.0
IS	13 02 00.0
ESS	12 06 42.0
EL	13 14 34.0
COL EP	12 52 45.9
I	52 50.8
I	52 58.4
SIT E(P)	12 53 30.0
HHM E(P)	12 54 38.0
BUT E(P)	12 54 52.0
EUR EP	12 54 57.7
IPP	59 15.0
BCN E(P)	12 55 11.5
EPP	59 32.5
EPKKP	13 11 03.5
RCD EP'	12 59 34.0
NOV 24	
H-12 50 40.2	
13.2N 124.9E	
h ABOUT 097KM	
GUA EP	12 55 02.0
COL IP	13 02 24.2
ALQ IP'	13 09 08.3
NOV 24	
ALQ E(P)	12 56 04.0
E	59 30.5
NOV 24	
SLC E(P)	12 58 07.7
TUC E(P)	12 59 06.9
E	13 00 08.0
NOV 24	
EUR EP	13 09 51.6
I	11 12.9
HHM E(P)	13 11 03.0
NOV 24	
TUC E(P)	13 20 14.5

Date and Station	Phase (GCT)
	h m s
NOV 24	
H-14 48 47.0	
24.6S 179.5W	
h ABOUT 406KM	
TUC EP	15 00 47.0
NOV 24	
EUR EP	16 16 04.7
NOV 24	
EUR EP	17 28 35.9
NOV 24	
TUC E(P)	18 33 09.2
NOV 24	
ALQ E(P)	18 39 48.5
NOV 24	
SLC EP	18 50 35.9
NOV 24	
EUR EP	20 16 30.5
NOV 24	
TUC EP	20 17 41.0
E(S)	17 59.8
NOV 24	
TUC E(P)	21 33 17.1
E	33 50.1
NOV 24	
HHM EP	21 36 20.0
EL	36 42.6
NOV 24	
TUC EP	21 55 20.5
EL	55 39.0
ALQ E(P)	21 56 21.0
NOV 24	
SLC E(P)	22 00 26.8
NOV 24	
TUC E(P)	22 33 29.4
NOV 24	
ALQ I(P)	23 37 19.7
NOV 24	
H-23 51 20.2	
23.2S 176.0W	
h ABOUT 033KM	
BCN E(P)	24 03 44.0
E	03 56.0
TUC E(P)	24 03 45.9
EUR EP	24 03 48.8
ALQ I(P)	24 04 07.5
COL IP	24 04 20.2
E	04 34.8
COL IP	24 04 20.5

Date and Station	Phase (GCT)
	h m s
NOV 25	
H-02 50 05.0	
37.4N 081.5W	
h ABOUT 000KM	
ALQ EP	02 54 45.3
NOV 25	
COL E(P)	04 03 34.3
NOV 25	
H-07 35 41.4	
51.4N 178.8E	
h ABOUT 033KM	
COL EP	07 40 33.1
EUR IP	07 44 03.0
NOV 25	
COL EP	07 55 04.1
I	55 11.9
NOV 25	
COL EP	08 23 50.0
NOV 25	
H-08 31 32.9	
16.1S 175.1W	
h ABOUT 302KM	
BCN IP D	08 42 54.5
TUC EP	08 43 00.5
ALQ IP	08 43 24.2
COL IP	08 43 27.1
BOZ EP	08 43 31.3
NOV 25	
H-08 32 59.0	
26.6N 096.3E	
h ABOUT 080KM	
COL E(P)	08 44 39.2
NOV 25	
H-09 24 08.9	
4.3S 122.2E	
h ABOUT 610KM	
GUA IP	09 29 20.5
I(S)	33 27.0
KIP EP	09 35 31.0
COL EP	09 36 22.4
HHM EP'	09 41 44.0
I>P'	44 22.0
EUR IP'	09 41 48.2
IPP	43 03.0
EPKKP	52 09.3
BOZ EP'	09 41 50.0
IPP	43 12.5
I>P'	44 27.5
BCN EP'	09 41 53.2
EPP	43 19.8
E>P'	44 30.0
EPKKP	52 08.8
ESKKP	54 57.0
TUC EP'	09 42 00.5
I>P'	44 38.4
EPKKP	51 53.3
ALQ IP'	09 42 06.0
EPP	44 02.2
BUT EP'	09 42 18.0
EPKKP	52 19.0
RCD EPP	09 43 17.0
EPKKP	52 07.0
ESKKP	54 39.0
SLC EPP	09 43 24.8
IPKKP	52 09.2
NOV 25	
COL E(P)	10 36 42.9
NOV 25	
BCN E(P)	11 36 53.5
EL	37 34.0
TUC E(P)	11 37 04.4
NOV 25	
H-11 45 54.1	
38.9N 071.0E	
h ABOUT 085KM	
COL IP	11 57 11.2
NOV 25	
COL IP	12 31 15.1
NOV 25	
EUR EP	12 39 09.5
NOV 25	
H-12 45 20.0	
55.1N 162.6E	
h ABOUT 079KM	
COL EP	12 50 46.2
E>P	51 02.0
RCD EP	12 55 03.0
NOV 25	
H-13 02 41.7	
9.5S 158.8E	
h ABOUT 038KM	
COL IP	13 15 08.2
EUR IP	13 15 51.0
NOV 25	
COL E(P)	13 46 00.2
NOV 25	
BCN I(P)	15 57 31.5
NOV 25	
GUA IP	16 02 24.0
NOV 25	
SLC EP	16 59 41.0
EUR EP	17 00 24.8
NOV 25	
ALQ I(P)	18 57 39.5
NOV 25	
TUC E(P)	19 23 39.7
NOV 25	
H-19 35 16.4	
05.2S 125.2E	
h ABOUT 430KM	
TUC EP'	19 53 13.7
NOV 25	
COL EP	20 05 09.4
NOV 25	
COL EP	20 09 48.0
NOV 25	
EUR EP	20 17 10.8
NOV 25	
RCD EP	20 40 52.0
ELG	40 58.0
NOV 25	
ALQ E(P)	20 58 39.5
NOV 25	
EUR EP	21 06 33.7
NOV 25	
SLC EP	21 32 02.4
NOV 25	
COL IP	22 19 42.3
NOV 25	
COL EP	22 39 06.0
NOV 25	
EUR EP	23 03 59.4
NOV 25	
GUA EP	23 36 31.9
IS	36 44.0
NOV 25	
EUR EP	23 37 57.2
I	39 13.1
BOZ EP	23 38 54.2
E	39 06.2
NOV 25	
BOZ EP	23 45 54.0
NOV 25	
EUR EP	23 51 57.2
NOV 26	
TUC E(P)	00 07 24.6
NOV 26	
TUC E(P)	00 53 26.5
NOV 26	
COL EP	01 26 42.5
NOV 26	
BUT IP	01 33 08.8
NOV 26	
BOZ E(P)	01 36 37.5
NOV 26	
TUC E(P)	01 40 42.3
NOV 26	
TUC EP	01 52 20.4
E	52 41.4
NOV 26	
BOZ EP	03 19 40.8
EUR EP	03 19 56.6
NOV 26	
COL EP	03 37 28.0
ES	37 49.6
NOV 26	
COL EP	04 36 20.0
E	36 29.8
NOV 26	
H-04 48 55.3	
33.1N 049.0E	
h ABOUT 033KM	
COL EP	05 01 10.5
E	01 17.3
NOV 26	
H-04 50 33.2	
6.8N 073.0W	
h ABOUT 167KM	
TUC E(P)	04 58 21.4
BOZ EP	04 59 21.4
NOV 26	
COL EP	04 53 06.3
NOV 26	
COL E(P)	04 55 16.1
E	55 34.9
NOV 26	
COL IP	05 12 31.5
NOV 26	
COL EP	05 28 29.3
NOV 26	
COL IP	05 43 20.3
E	43 36.8
I	44 56.9
NOV 26	
COL E(P)	05 47 08.3
NOV 26	
COL EP	06 29 01.1
NOV 26	
H-06 55 25.1	
28.0S 177.0W	
h ABOUT 033KM	
TUC E(P)	07 08 07.9

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	07 08 28.5
NOV 26	
COL EP	07 26 33.1
NOV 26	
COL IP	07 47 52.2
ES	48 23.5
NOV 26	
COL EP	07 53 39.0
NOV 26	
BCN E(P)	08 04 08.0
E	04 24.0
EL	05 11.5
EUR EP	08 04 32.2
NOV 26	
BOZ E(P)	08 26 16.3
NOV 26	
COL IP	08 34 24.3
NOV 26	
COL IP	09 21 38.0
NOV 26	
COL IP	09 48 33.5
NOV 26	
COL EP	10 11 33.3
NOV 26	
BUT E(P)	10 19 21.0
NOV 26	
H-10 21 07.2	
24.9N 122.0E	
h ABOUT 033KM	
COL EP	10 32 02.4
EPCP	32 27.9
EPP	34 21.5
HHM EP	10 34 12.8
BOZ EP	10 34 25.5
E(S)	45 12.0
EUR IP	10 34 34.4
BCN EP	10 34 48.0
NOV 26	
ALQ E(P)	10 38 14.5
NOV 26	
COL EP	12 32 31.9
NOV 26	
EUR EP	13 41 27.6
NOV 26	
H-14 19 47.6	
24.9N 122.0E	
h ABOUT 033KM	
COL EP	14 30 45.0

Date and Station	Phase (GCT)
	h m s
NOV 26	
H-16 36 50.6	
58.7N 152.0W	
h ABOUT 033KM	
COL IP	16 38 27.2
HHM EP	16 42 08.2
EL	45 45.2
BUT IP	16 42 29.0
BOZ EP	16 42 35.7
E	42 40.6
EUR EP	16 42 57.8
ALQ IP	16 44 09.0
IPCP	46 23.2
TUC EP	16 44 09.0
NOV 26	
TUC E(P)	16 37 03.0
NOV 26	
ALQ I(P)	17 20 10.7
NOV 26	
TUC EP	18 07 10.2
NOV 26	
ALQ E(P)	18 38 02.4
NOV 26	
BOZ IP	19 29 20.7
EL	29 32.0
BUT EP	19 29 36.0
IL	29 56.0
NOV 26	
BCN E(P)	19 49 38.3
EL	50 17.5
TUC EP	19 49 41.5
E	49 59.2
E(L)	50 48.5
EUR EP	19 50 00.6
ALQ E(P)	19 50 30.2
NOV 26	
BCN E	19 55 04.4
E	56 02.0
TUC E(P)	19 55 24.9
E	55 44.0
E(L)	56 34.2
NOV 26	
COL EP	20 46 46.4
NOV 26	
TUC E(P)	21 02 35.4
NOV 26	
COL E(P)	21 16 35.4
NOV 26	
COL EP	21 20 53.7

Date and Station	Phase (GCT)
	h m s
NOV 26	
EUR EP	21 27 38.2
NOV 26	
COL EP	21 57 04.0
EUR EP	22 00 43.5
NOV 26	
TUC E(P)	22 13 21.5
NOV 26	
COL EP	23 44 32.5
E	45 23.0
NOV 27	
COL EP	01 26 43.0
NOV 27	
EUR EP	02 26 56.7
NOV 27	
TUC E(P)	03 36 14.0
NOV 27	
H-03 37 02.6	
65.3N 151.4W	
h ABOUT 033KM	
COL IP	03 37 28.1
IS	37 48.0
HHM E(P)	03 42 30.0
BOZ E(P)	03 43 03.5
ALQ EP	03 44 38.6
TUC E(P)	03 44 44.2
NOV 27	
ALQ E(P)	05 23 15.0
NOV 27	
H-05 36 01.5	
45.2N 150.9E	
h ABOUT 033KM	
COL IP	05 43 20.2
HHM EP	05 46 13.6
BUT E(P)	05 46 19.0
E	47 06.0
BOZ EP	05 46 33.9
E	46 40.8
EUR IP	05 46 42.7
BCN IP C	05 47 01.7
TUC EP	05 47 31.5
ALQ EIP	05 47 35.9
NOV 27	
EUR EP	06 42 15.8
NOV 27	
H-07 47 07.6	
62.6N 151.5W	
h ABOUT 113KM	

Date and Station	Phase (GCT)
	h m s
COL IP	07 47 52.3
IS	48 24.0
SIT EP	07 49 22.6
ES	51 04.3
HHM IP D	07 52 23.5
IPP	52 56.5
ESCP	59 24.5
BUT EP	07 52 45.2
EPP	53 08.5
ESCP	59 32.0
BOZ EP	07 52 51.5
EPP	53 27.5
EUR IP	07 53 20.5
ISCP	59 49.3
BCN EP	07 53 51.0
EPP	54 13.0
EPP	55 15.0
IPCP	56 20.9
ISCP	59 58.0
ALQ IP	07 54 27.0
IPCP	56 34.0
ISCP	08 00 13.1
TUC EP	07 54 31.3
KIP IP	07 54 43.1
NOV 27	
COL IP	08 34 24.3
NOV 27	
COL EP	09 53 52.6
NOV 27	
TUC EP	10 06 18.6
NOV 27	
TUC EP	10 09 36.6
NOV 27	
BOZ E(P)	10 16 37.8
NOV 27	
EUR EP	10 32 05.8
NOV 27	
GUA IP	10 35 01.0
IS	35 12.0
NOV 27	
H-11 03 48.0	
36.3N 070.7E	
h ABOUT 219KM	
COL IP	11 15 04.3
IPP	15 56.0
NOV 27	
ALQ IP	11 09 57.2
NOV 27	
COL E(P)	11 51 52.7
NOV 27	
TUC EP	12 04 23.8
E	04 37.8

Date and Station	Phase	(GCT) h m s
ALQ	E(P)	12 05 22.0
NOV 27		
BCN	E(P)	12 07 08.0
NOV 27		
BCN	E(P)	12 18 58.5
	EL	19 47.5
TUC	E(P)	12 19 08.0
NOV 27		
EUR	EP	12 20 06.3
NOV 27		
HHM	EP	13 02 32.1
NOV 27		
GUA	EP	13 41 21.0
NOV 27		
H-13 47 42.7		
37.9N 138.3E		
h ABOUT 036KM		
GUA	IP	13 53 04.0
	E(S)	57 27.0
COL	IP	13 56 32.3
KIP	IP	13 57 26.1
HHM	IP	13 59 10.5
	I	14 00 00.5
BUT	EP	13 59 23.0
	E	14 00 14.0
BOZ	IP C	13 59 27.0
	E	14 00 16.8
EUR	IP	13 59 35.0
SLC	EP	13 59 43.4
BCN	EP	13 59 51.0
	E	59 59.5
TUC	EP	14 00 17.0
	E	01 07.0
ALQ	IP	14 00 21.6
	I	01 12.0
NOV 27		
COL	IP	13 53 17.1
EUR	EP	13 57 10.8
NOV 27		
BCN	EP	14 00 41.5
	E	00 50.0
NOV 27		
H-14 27 56.4		
7.7N 036.9W		
h ABOUT 033KM		
ALQ	E(P)	14 39 01.0
TUC	E(P).	14 39 20.6
EUR	EP	14 39 48.0
NOV 27		
COL	IP	14 49 22.5
NOV 27		
COL	IP	14 49 22.7
NOV 27		
COL	E(P)	15 19 58.0
NOV 27		
COL	E(P)	15 25 48.4
NOV 27		
COL	E(P)	15 47 15.9
NOV 27		
COL	EP	16 19 24.2
NOV 27		
EUR	IP	16 26 44.9
NOV 27		
GUA	IP	16 58 00.0
	IS	58 14.0
NOV 27		
BOZ	E(P)	17 25 23.5
NOV 27		
H-18 44 27.1		
29.7N 042.0W		
h ABOUT 033KM		
EUR	EP	18 54 35.1
BCN	EP	18 54 35.5
NOV 27		
TUC	E(P)	19 12 37.0
NOV 27		
COL	EP	19 21 29.9
NOV 27		
BOZ	EP	21 44 32.0
NOV 27		
COL	EP	22 12 41.0
NOV 27		
COL	E(P)	22 12 56.2
NOV 27		
COL	EP	23 36 49.8
NOV 28		
COL	EP	00 48 18.5
	E	48 47.0
NOV 28		
COL	EP	01 07 45.8
NOV 28		
COL	E(P)	01 34 54.3
NOV 28		
COL	IP	03 05 29.1
NOV 28		
COL	IP	03 36 02.8
NOV 28		
EUR	EP	03 45 59.6
COL	E(P)	03 46 26.6
NOV 28		
COL	E(P)	03 58 13.0
NOV 28		
COL	EP	04 39 10.5
	I	39 20.6
	E	40 12.3
NOV 28		
COL	EP	04 49 16.1
NOV 28		
COL	E(P)	04 50 23.3
	I	50 32.1
NOV 28		
COL	EP	05 55 05.2
	E	55 33.5
NOV 28		
EUR	EP	06 56 00.6
NOV 28		
COL	EP	07 49 34.0
NOV 28		
COL	EP	07 49 34.3
NOV 28		
COL	E(P)	09 08 57.2
NOV 28		
BCN	E(P)	10 09 28.0
	E	09 43.0
	EL	10 40.0
TUC	EP	10 09 33.2
EUR	EP	10 10 15.1
NOV 28		
COL	EP	10 28 33.8
NOV 28		
COL	E(P)	10 45 06.5
	E	45 41.5
NOV 28		
H-11 00 22.9		
23.3S 177.6W		
h ABOUT 157KM		
TUC	E(P)	11 12 39.5
COL	EP	11 13 09.4
NOV 28		
COL	E(P)	11 47 36.8
NOV 28		
COL	EP	11 57 28.0
TUC	E(P)	12 03 30.5
NOV 28		
H-12 51 07.1		
35.5N 140.7E		
h ABOUT 072KM		
COL	IP	13 00 01.3
BOZ	EP	13 02 49.5
BCN	EP	13 03 14.7
TUC	EP	13 03 36.0
ALQ	EP	13 03 42.0
NOV 28		
ALQ	E(P)	13 01 16.8
EUR	EP	13 02 19.8
NOV 28		
COL	IP	13 15 42.9
NOV 28		
COL	EP	13 55 46.3
NOV 28		
COL	EP	14 05 44.2
NOV 28		
COL	IP	14 54 28.8
NOV 28		
EUR	EP	15 09 19.8
NOV 28		
COL	EP	15 45 59.9
NOV 28		
H-16 41 33.4		
07.7S 071.2W		
h ABOUT 626KM		
CSC	IP	16 48 37.5
ALQ	IP	16 50 02.0
	I(pP)	52 02.0
TUC	IP D	16 50 08.0
	E	51 53.8
	E(pP)	52 08.0
BCN	IP D	16 50 42.0
	EPCP	51 06.0
	(pP)	52 42.4
	EPP	53 01.0
	IsP	53 40.7
	ESCP	54 20.2
SLC	IP	16 50 49.3
BOZ	IP D	16 51 10.5
	EpP	53 11.4
BUT	I(P)	16 51 21.3
HHM	IP	16 51 29.3
COL	IP	16 53 34.3
	E	53 51.9
	IpP	55 50.7
	E(PP)	57 16.7
GUA	IP'	16 59 58.7
NOV 28		
H-16 49 30.3		
08.0S 071.4W		
h ABOUT 655KM		
CSC	IP	16 56 33.0

Date and Station	Phase (GCT)
	h m s
TUC IP D	16 58 03.5
EPCP	58 52.0
E>P	17 00 04.3
BCN IP D	16 58 37.2
E	17 00 09.0
EPP	00 56.5
EsP	01 34.0
EP'P'	27 46.0
SLC IP	16 58 44.8
BOZ EP	16 59 06.2
EPCP	59 33.0
BUT I(P)	16 59 17.0
HHM IP D	16 59 25.1
EP'P'	27 40.1
ESKPP'	30 06.1
COL IP	17 01 29.5
E>P	03 45.0
COL IP	17 01 29.7
GUA EP'	17 07 54.4
NOV 28	
EUR EP	17 27 35.9
NOV 28	
COL EP	19 23 09.0
NOV 28	
COL E(P)	19 23 30.3
NOV 28	
HHM E(P)	19 31 25.0
COL EP	19 31 27.0
NOV 28	
TUC E(P)	21 39 59.6
NOV 28	
EUR IP	22 26 13.1
NOV 28	
COL EP	22 48 25.1
NOV 28	
SLC E(P)	23 04 54.0
NOV 28	
COL E(P)	23 13 12.3
NOV 29	
COL EP	00 07 45.9
I	07 55.2
NOV 29	
EUR EP	00 31 04.6
NOV 29	
TUC E(P)	02 49 36.4
COL IP	02 49 57.8
NOV 29	
COL EP	03 04 57.3

Date and Station	Phase (GCT)
	h m s
NOV 29	
H-03 05 03.0	
23.7S 179.9E	
h ABOUT 600KM	
TUC E(P)	03 16 45.0
NOV 29	
H-03 24 28.8	
3.6S 080.6W	
h ABOUT 033KM	
ALQ IP	03 32 47.5
TUC EP	03 32 49.5
EUR EP	03 33 51.6
BOZ EP	03 34 08.3
HHM E(P)	03 34 30.0
NOV 29	
H-06 20 10.0	
19.4S 169.2E	
h ABOUT 324KM	
KIP EP	06 28 44.0
COL EP	06 32 34.5
BCN EP	06 32 36.5
EUR IP	06 32 39.5
TUC EP	06 32 44.0
BOZ E(P)	06 33 03.3
ALQ E(P)	06 33 03.6
NOV 29	
COL E(P)	06 52 25.5
NOV 29	
COL EP	07 09 38.2
NOV 29	
H-07 20 46.0	
16.7N 099.0W	
h ABOUT 033KM	
TUC E(P)	07 25 07.0
ALQ I(P)	07 25 11.3
NOV 29	
COL E(P)	07 45 41.2
NOV 29	
H-09 11 05.8	
06.8N 073.2W	
h ABOUT 171KM	
ALQ IP	09 18 39.0
TUC IP D	09 18 52.6
ESCP	24 15.8
BCN EP	09 19 29.8
EPP	21 28.7
EUR IP	09 19 47.6
ESCP	24 44.7

Date and Station	Phase (GCT)
	h m s
BOZ EP	09 19 52.6
HHM E(P)	09 20 13.0
COL EP	09 22 43.0
NOV 29	
SLC E(P)	09 32 07.2
EUR IP	09 32 22.7
BCN IP	09 32 43.2
ALQ EP	09 33 11.0
E	33 29.3
E	34 47.0
NOV 29	
H-12 26 29.6	
04.6N 077.6W	
h ABOUT 044KM	
TUC E(P)	12 34 01.1
ALQ IP	12 34 05.6
EUR EP	12 35 15.3
HHM EP	12 35 47.7
COL E(P)	12 38 34.7
NOV 29	
BOZ EP	12 35 52.3
NOV 29	
BCN E(P)	12 44 56.0
TUC E(P)	12 45 01.4
NOV 29	
EUR EP	12 46 07.8
BCN IPG	12 46 15.5
ALQ E(P)	12 47 46.7
NOV 29	
COL EP	13 25 08.0
NOV 29	
H-14 25 23.9	
32.9N 115.6W	
h ABOUT 014KM	
BCN EP	14 26 14.6
TUC EP	14 26 26.6
E	26 44.0
EUR EP	14 27 02.7
I	27 30.4
ALQ EIP	14 27 21.5
I	27 56.0
I	29 36.0
SLC E(P)	14 27 45.2
NOV 29	
COL E(P)	14 45 20.9
NOV 29	
UKI E(P)	15 13 05.5

Date and Station	Phase (GCT)
	h m s
NOV 29	
H-15 52 18.4	
05.5S 146.2E	
h ABOUT 048KM	
COL IP	16 04 50.1
NOV 29	
H-16 54 25.8	
55.5S 026.0W	
h ABOUT 033KM	
HHM EP'	17 13 24.8
COL IP'	17 14 13.6
E	14 46.3
NOV 29	
H-17 08 25.7	
04.8S 079.3W	
h ABOUT 081KM	
ALQ IP	17 16 51.8
EUR EP	17 17 54.1
BOZ EP	17 18 10.6
NOV 29	
ALQ E(P)	17 23 47.5
NOV 29	
COL E(P)	19 23 21.1
NOV 29	
BOZ E(P)	19 33 55.8
NOV 29	
TUC E(P)	19 52 19.8
NOV 29	
TUC EP	20 29 49.0
NOV 29	
EUR EP	20 32 20.4
NOV 29	
COL EP	20 48 33.0
NOV 29	
H-20 56 39.2	
31.0N 141.2E	
h ABOUT 033KM	
GUA EP	21 00 44.0
E(S)	04 08.0
BUT EP	21 08 38.8
BOZ EP	21 08 43.0
EUR IP	21 08 45.9
BCN EP	21 09 00.8
NOV 29	
COL IP	21 05 24.0
NOV 29	
SLC EP	21 35 00.2
EUR EP	21 35 29.4

Date and Station	Phase	Phase (GCT) h m s
NOV 29		
COL	E(P)	22 12 53.6
	E	13 12.6
NOV 29		
COL	EP	22 32 28.6
	E	32 37.2
NOV 29		
SLC	E(P)	22 36 58.6
NOV 29		
BCN	EP	22 41 31.0
	EL	42 02.0
NOV 29		
H-23 07 41.6		
80.2N 004.1W		
h ABOUT 033KM		
EUR	EP	23 17 10.0
NOV 29		
COL	E(P)	23 18 15.6
	E	19 06.5
NOV 29		
COL	EP	23 43 41.8
NOV 29		
ALQ	E(P)	23 56 13.5
NOV 30		
H-00 15 56.6		
38.9S 072.4W		
h ABOUT 087KM		
TUC	E(P)	00 27 53.7
ALQ	IP	00 27 57.6
BCN	EP	00 28 19.5
EUR	EP	00 28 36.5
NOV 30		
COL	EP	01 19 26.0
NOV 30		
COL	IP	02 45 16.7
NOV 30		
COL	EP	03 16 08.2
NOV 30		
TUC	E(P)	03 24 14.0
NOV 30		
COL	EP	03 29 55.2
	E	30 05.2
NOV 30		
H-04 11 42.9		
71.8N 002.7W		
h ABOUT 033KM		
COL	EP	04 19 31.5
NOV 30		
TUC	E(P)	05 05 27.8
NOV 30		
TUC	EP	05 12 53.6
	E	13 07.4
	E(L)	13 55.0
BCN	E(P)	05 13 25.0
ALQ	E(P)	05 14 02.0
EUR	EP	05 14 13.0
NOV 30		
TUC	E(P)	05 37 40.6
NOV 30		
H-06 25 15.7		
13.8N 120.7E		
h ABOUT 203KM		
COL	EP	06 36 54.2
	E▸P	37 43.4
ALQ	EP'	06 43 34.0
NOV 30		
TUC	EP	06 48 56.0
BCN	EP	06 49 27.0
ALQ	E(P)	06 50 03.0
EUR	EP	06 50 16.6
NOV 30		
COL	EP	07 02 06.0
NOV 30		
COL	IP	07 28 38.3
NOV 30		
TUC	E(P)	07 40 16.5
NOV 30		
TUC	E(P)	07 54 42.5
NOV 30		
TUC	E(P)	08 20 19.3
	E	20 33.1
	EL	21 21.0
BCN	E(P)	08 20 50.4
ALQ	E(P)	08 21 26.0
EUR	EP	08 21 41.4
NOV 30		
TUC	EP	08 27 40.5
	E(L)	28 42.0
BCN	E(P)	08 28 14.4
	EL	30 04.4
NOV 30		
COL	EP	09 34 17.4
NOV 30		
H-09 46 56.1		
18.3N 069.3W		
h ABOUT 033KM		
ALQ	E(P)	09 54 05.0
COL	E	09 57 57.4
NOV 30		
HHM	E(P)	09 47 06.0
NOV 30		
H-10 10 06.1		
04.7N 126.8E		
h ABOUT 052KM		
COL	EP	10 22 33.0
NOV 30		
EUR	EP	10 18 27.1
NOV 30		
H-12 24 09.4		
06.2N 093.7E		
h ABOUT 033KM		
EUR	EP'	12 43 13.8
ALQ	EP'	12 43 28.0
NOV 30		
H-12 27 38.6		
06.8N 094.8E		
h ABOUT 033KM		
GUA	EP	12 36 30.0
	IS	43 40.0
COL	EP	12 41 04.0
HHM	EP'	12 46 26.9
	EPP	47 55.9
BUT	EP'	12 46 27.7
BOZ	IP'	12 46 35.0
EUR	IP'	12 46 42.6
RCD	EP'	12 46 43.0
	E	46 53.0
BCN	EP'	12 46 48.5
	EPP	48 56.0
	E	59 26.5
TUC	EP'	12 46 59.4
HON	E	12 53 34.0
	EPS	55 05.0
	ESS	13 00 42.0
	E	04 20.0
	EL	10 38.0
KIP	EPS	12 55 11.0
	ESS	13 00 43.0
	EL	10 40.0
NOV 30		
EUR	EP	12 56 06.9
COL	EP	12 56 37.2
ALQ	E(P)	12 56 44.5
	I	46 57.6
	E	49 24.0
NOV 30		
BUT	E(P)	13 00 17.4
NOV 30		
COL	EP	13 21 52.2
NOV 30		
BOZ	E(P)	14 16 42.0
NOV 30		
UKI	E(P)	15 19 50.5
NOV 30		
COL	E(P)	15 31 52.6
	E	32 36.4
NOV 30		
SLC	EP	16 04 18.3
NOV 30		
H-16 07 30.1		
23.8S 179.3E		
h ABOUT 481KM		
EUR	EP	16 19 25.4
TUC	EP	16 19 25.4
ALQ	I(P)	16 19 45.7
NOV 30		
COL	EP	17 01 40.0
NOV 30		
COL	E(P)	17 12 08.3
NOV 30		
TUC	EP	17 22 00.1
	E(S)	22 19.8
NOV 30		
TUC	E(P)	17 41 26.8
NOV 30		
BOZ	E(P)	17 57 02.5
NOV 30		
COL	IP	17 59 35.8
NOV 30		
COL	EP	18 00 56.2
NOV 30		
COL	E(P)	18 08 53.5
NOV 30		
H-18 53 11.4		
24.0S 179.9E		
h ABOUT 550KM		
COL	IP	19 05 21.0
EUR	I(P)	19 04 51.1
BCN	EP	19 04 54.0
TUC	EP	19 04 58.3
	E▸P	06 58.0
EUR	EP	19 04 58.7
ALQ	IP	19 05 19.0
	I▸P	07 20.0
BOZ	EP	19 05 27.0
NOV 30		
EUR	EP	20 46 23.9

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
NOV 30							
H-21 16 16.6							
36.9N 121.7W							
h ABOUT 014KM							
UKI E(P)	21 17 08.5						
EUR E(P)	21 17 46.6						
I	19 02.9						
NOV 30							
COL E(P)	21 19 21.0						
NOV 30							
COL E(P)	21 30 57.3						
NOV 30							
SLC IP	22 36 07.6						
EUR EP	22 36 50.9						
NOV 30							
H-22 40 46.0							
53.7N 167.7W							
h ABOUT 069KM							
COL IP	22 44 16.0						
SIT E(P)	22 45 01.0						
KIP IP	22 47 16.6						
IPP	48 24.0						
HON EP	22 47 17.0						
BOZ EP	22 47 44.7						
EUR IP	22 47 54.6						
BCN EP	22 48 19.6						
TUC IP C	22 48 59.2						
ALQ IP	22 49 05.0						
I	50 41.2						
ISCP	54 25.3						
NOV 30							
COL IP	22 52 45.0						
BOZ EP	22 53 46.0						
NOV 30							
TUC IP C	23 00 04.1						
NOV 30							
BOZ EP	23 14 04.5						