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COAST & GEODETIC SURVEY
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CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 12

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COAST AND GEODETIC SURVEY—WASHINGTON

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March 4, 2011

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. D. (RCD) WWNSS
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJP)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC) WWNSS
Ukiah, Calif. (UKI)
International Latitude Observatory
Washington, D. C. (WAS)

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

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

All magnitudes are m_b values of Gutenberg and Richter determined by the C&GS from the P phase only unless otherwise noted. The magnitude quoted is an average value determined from data forwarded by cooperating Standard Stations and other observatories. Mag. (PAS), (PAL), (BRK) are as reported by Pasadena, Palisades and Berkeley respectively.

All coordinates of epicenters, origin times and focal depths have been calculated with the use of an electronic computer. The epicenters quoted in this bulletin are those previously reported on the Preliminary Determination of Epicenter cards with some refinement and minor additions.

All seismograms are on file in the Coast and Geodetic Survey. Requests for information on seismogram copies of the World-Wide Network observatories should be addressed to:

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

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
1	10 40 01*	30.9 N	49.9 E	42		WESTERN IRAN.
1	12 45 24*	76.1 N	120.8 E	33	4.3	LAPTEV SEA.
1	13 22 36.6	27.2 N	92.3 E	33	5.7	INDIA-CHINA BORDER REGION.
1	17 16 40.4	51.2 N	170.6 W	25	5.5	FOX ISLANDS, ALEUTIAN ISLANDS. MAG. 4 3/4 (BRK), 4 3/4-5 (PAL).
1	19 49 14*	36.7 N	122.0 W	14	4.1	CENTRAL CALIFORNIA. MAG. 3 3/4-4 (BRK). FELT AT GILROY.
1	20 48 39*	57.2 S	147.1 E	33		WEST OF MACQUARIE ISLAND.
2	15 19 07.3	7.1 N	78.5 W	33	4.3	PANAMA.
2	17 50 04.0	8.0 N	72.8 W	33	4.1	NORTHERN COLOMBIA.
2	18 12 22.9	7.8 N	73.3 W	112	4.8	NORTHERN COLOMBIA. 10 INJURED AND MAJOR PROPERTY DAMAGE IN SANTANDER DEL NORTE PROVINCE.
2	21 32 39.6	18.6 S	169.4 E	218	4.9	NEW HEBRIDES ISLANDS.
3	01 55 32*	12.2 N	87.0 W	108	4.0	NEAR COAST OF NICARAGUA.
3	02 45 07.2	59.5 N	144.8 W	19	4.2	GULF OF ALASKA.
3	04 16 19*	8.0 N	72.6 W	82	3.7	VENEZUELA.
3	05 31 15.0	50.5 N	129.5 W	29	5.0	VANCOUVER ISLAND REGION.
3	08 25 47*	53.2 N	162.4 E	33	4.5	OFF EAST COAST OF KAMCHATKA.
3	10 06 55.9	30.9 S	68.4 W	113	5.1	SAN JUAN PROVINCE, ARGENTINA.
3	10 23 47.8	10.4 S	160.5 E	57	4.9	SOLOMON ISLANDS.
3	11 23 03*	28.4 S	177.1 W	312	3.9	KERMADEC ISLANDS.
3	11 36 23.8	6.8 N	73.4 W	173	4.8	NORTHERN COLOMBIA.
3	11 48 36.1	43.5 N	127.1 W	33	4.4	OFF COAST OF OREGON.
3	12 32 00.6	59.4 N	145.2 W	35	4.4	GULF OF ALASKA.
3	12 57 22.3	17.9 S	178.0 W	567		FIJI ISLANDS REGION.
3	15 36 46*	30.5 S	177.4 W	32	4.4	KERMADEC ISLANDS REGION.
3	16 58 55.4	15.2 S	173.5 W	33	5.1	TONGA ISLANDS.
3	17 38 11*	19.6 N	109.1 W	33	4.7	REVILLA GIGEDO ISLANDS REGION.
3	18 59 07*	59.8 N	149.7 W	33	4.1	KENAI PENINSULA, ALASKA.
3	21 04 13.3	59.7 N	144.0 W	33	4.5	GULF OF ALASKA.
3	21 14 43*	24.6 N	108.6 W	33	5.3	GULF OF CALIFORNIA. MAG. 4-4 1/4 (BRK), 5 (PAL).
3	22 19 23.1	6.4 S	128.5 E	218		BANDA SEA.
3	23 41 56.2	24.2 N	108.8 W	15	4.6	GULF OF CALIFORNIA. MAG. 4 1/4-4 1/2 (PAL).
4	00 08 51.0	5.5 S	130.4 E	99		BANDA SEA.
4	01 16 30*	19.3 N	109.1 W	33	3.6	REVILLA GIGEDO ISLANDS REGION.
4	01 25 44*	4.5 S	153.5 E	167	5.6	NEW IRELAND REGION.
4	02 13 13*	19.1 N	107.0 W	33	4.0	OFF COAST OF JALISCO, MEXICO.
4	03 28 33.1	7.6 N	36.9 W	22	5.4	CENTRAL MID-ATLANTIC RIDGE. MAG. 4 1/2 (PAL).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
4	03 39 36.7	39.8 N	40.3 E	33	5.0	TURKEY.
4	04 10 56*	59.2 N	138.1 W	33	3.8	SOUTHEASTERN ALASKA.
4	08 12 45*	52.4 N	158.6 E	70	4.5	NEAR EAST COAST OF KAMCHATKA.
4	09 03 00.6	28.5 S	70.3 W	44	4.7	CENTRAL CHILE.
4	09 20 36.1	24.5 N	108.7 W	33	4.1	GULF OF CALIFORNIA.
4	09 36 58.7	18.3 S	69.0 W	101	5.4	NORTHERN CHILE. MAG. 4 1/2 (BRK). FELT AT ARICA.
4	09 50 06.6	24.2 N	108.6 W	33	4.6	GULF OF CALIFORNIA. MAG. 3 1/2-3 3/4 (BRK).
4	09 55 16*	23.4 N	108.8 W	33	4.4	GULF OF CALIFORNIA.
4	10 34 13.1	4.0 S	131.4 E	33	5.9	BANDA SEA. MAG. 6 (PAS), 5 1/2-6 (BRK), 5 3/4-6 (PAL).
4	11 39 24.0	17.6 S	168.6 E	33		NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
4	14 50 34*	24.3 S	179.1 E	548		SOUTH OF FIJI ISLANDS.
4	16 10 53.0	4.0 S	131.5 E	37	4.7	BANDA SEA.
4	17 10 28.4	3.9 S	131.5 E	33	4.8	WEST NEW GUINEA REGION.
4	17 21 14*	7.9 N	103.5 W	21	4.2	OFF COAST OF MEXICO.
4	18 15 00.0			0		37 01 02 N. 116 01 08 W. NEVADA TEST SITE. GUANAY . SHOT ELEVATION 948.2 METERS (AEC).
4	18 35 04.3			0		GUANAY COLLAPSE.
4	18 37 32.6	51.7 N	174.7 E	33	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
4	20 20 24.8	37.4 N	118.6 W	14	4.1	CALIFORNIA-NEVADA BORDER REGION. MAG. 4 (BRK).
5	02 09 21.4	24.4 S	68.2 W	64	4.9	CHILE-ARGENTINA BORDER REGION. MAG. 4 3/4 (BRK).
5	02 17 14.4	32.2 S	179.5 E	397	4.6	SOUTH OF KERMADEC ISLANDS.
5	02 53 50.6	5.8 S	154.0 E	69	6.4	SOLOMON ISLANDS. MAG. 6 3/4 (PAS), 5 3/4-6 (BRK), 6 1/2-6 3/4 (PAL). FELT AT RABAUL.
5	04 09 51.6	6.0 S	153.8 E	81	4.8	NEW BRITAIN REGION.
5	04 35 25*	1.1 N	77.5 W	33	4.4	COLOMBIA.
5	06 36 59*	26.9 N	101.5 E	32	5.2	YUNNAN PROVINCE, CHINA.
5	07 20 45*	33.6 S	77.6 E	33		MID-INDIAN RISE.
5	07 27 21.0	5.9 S	153.7 E	106	4.6	NEW IRELAND REGION. FELT AT RABAUL.
5	11 55 37*	54.0 S	141.1 E	33		WEST OF MACQUARIE ISLAND.
5	12 27 22.2	0.6 N	25.9 W	33	4.7	CENTRAL MID-ATLANTIC RIDGE.
5	15 05 10.9	19.2 S	69.3 W	103	4.6	NORTHERN CHILE.
5	18 46 19*	53.9 S	140.4 E	33		WEST OF MACQUARIE ISLAND.
5	21 08 49.4	44.1 N	11.1 E	40	4.3	NORTHERN ITALY. FELT IN TOSCANA REGION.
5	22 28 51*	44.6 N	12.3 E	33		NORTHERN ITALY. FELT IN TOSCANA REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
6	03 27 47.9	17.8 S	168.2 E	33	4.8	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
6	03 38 48.8	46.7 S	13.5 W	33	4.8	SOUTH ATLANTIC RIDGE.
6	04 09 07*	23.4 N	108.5 W	33	4.1	GULF OF CALIFORNIA.
6	07 50 12.6	48.1 S	104.1 E	33		SOUTHEAST INDIAN RISE.
6	09 21 22.4	20.3 S	178.9 W	621	4.2	FIJI ISLANDS REGION.
6	09 52 49.7	15.9 N	61.7 W	143	4.4	LEEWARD ISLANDS.
6	10 29 51.4	53.9 N	163.9 W	33		UNIMAK ISLAND REGION.
6	11 15 27.9	6.0 S	153.7 E	90	4.5	NEW BRITAIN REGION. FELT AT RABAUL.
6	15 51 24*	10.6 S	107.5 W	33	4.7	NORTHERN EASTER I. CORDILLERA.
6	15 58 15*	58.7 N	151.4 W	33	5.8	KODIAK ISLAND REGION.
6	16 13 23.2	21.5 S	66.8 W	233	4.7	SOUTHERN BOLIVIA.
6	17 16 54.6	59.1 N	147.4 W	33	5.1	GULF OF ALASKA.
6	17 36 44.3	63.1 N	147.7 W	33	4.8	CENTRAL ALASKA.
6	18 41 01.8	10.0 N	140.2 E	33	5.1	WEST CAROLINE ISLANDS.
6	18 51 19*	34.2 N	114.0 W	15	3.3	CALIFORNIA-ARIZONA BORDER REGION.
6	18 55 47.4	38.3 N	26.6 W	33	4.9	AZORES ISLANDS.
6	18 57 20.4	7.1 N	93.7 E	46	5.2	NICOBAR ISLANDS REGION.
6	19 03 35.3	39.2 N	111.5 W	15		UTAH.
6	20 34 22.2	4.7 S	144.8 E	76	5.7	NEAR NORTH COAST OF NEW GUINEA.
6	21 05 48*	6.0 S	107.1 W	33	5.0	NORTHERN EASTER I. CORDILLERA. MAG. 4 3/4-5 1/4 (BRK), 4 3/4 (PAL).
6	21 18 02*	6.1 S	106.5 W	33	4.4	NORTHERN EASTER I. CORDILLERA.
7	03 38 50.4	19.9 N	122.2 E	28	4.7	PHILIPPINE ISLANDS REGION.
7	03 54 05.1	48.6 N	153.9 E	100	4.6	KURILE ISLANDS.
7	07 07 55.4	57.7 N	151.5 W	33	4.0	KODIAK ISLAND REGION.
7	07 42 02.3	58.3 N	152.0 W	33	5.1	KODIAK ISLAND REGION.
7	11 27 15*	15.7 N	53.3 E	33	4.6	ARABIAN SEA.
7	11 29 17.6	4.1 S	151.7 E	246		NEW BRITAIN REGION.
7	15 13 14.1	10.1 S	161.1 E	38	5.0	SOLOMON ISLANDS.
7	15 52 11.5	37.1 N	71.8 E	168	4.3	AFGHANISTAN-USSR BORDER REGION.
8	00 27 56*	44.3 N	114.8 W	33	3.9	WESTERN IDAHO.
8	02 43 17*	60.1 N	146.9 W	34	3.5	SOUTHERN ALASKA.
8	05 55 19*	20.5 S	176.2 W	33	4.5	FIJI ISLANDS REGION.
8	07 54 57.9	5.8 N	126.1 E	177	5.4	MINDANAO, PHILIPPINE ISLANDS. FELT AT HINATUAN.
8	09 32 26.8	45.6 N	149.9 E	141	4.5	KURILE ISLANDS.
8	10 26 25*	2.7 S	127.7 E	33		CERAM SEA.
8	11 15 35*	17.4 S	173.5 W	33	5.0	TONGA ISLANDS.
8	13 40 03.5	29.6 N	142.0 E	77	5.6	SOUTH OF HONSHU, JAPAN.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
8	13 41 44.1	24.1 S	177.6 W	165	4.8	SOUTH OF FIJI ISLANDS.
8	14 09 19.2	23.8 S	177.5 W	213	4.7	SOUTH OF FIJI ISLANDS.
8	14 12 39.8	23.9 S	177.2 W	175	4.5	SOUTH OF FIJI ISLANDS.
8	16 52 33.2	29.1 N	142.3 E	33	4.8	SOUTH OF HONSHU, JAPAN.
8	17 05 23.4	20.4 S	178.3 W	539	5.4	FIJI ISLANDS REGION.
8	20 22 54.2	6.9 N	126.4 E	33		MINDANAO, PHILIPPINE ISLANDS. FELT AT HINATUAN.
9	02 41 46*	58.9 N	154.5 W	33		ALASKA PENINSULA.
9	03 36 43*	58.9 N	152.8 W	33	4.6	KODIAK ISLAND REGION.
9	04 52 45.4	5.6 S	130.9 E	93	5.1	BANDA SEA.
9	05 30 44.7	24.1 S	177.1 W	33	4.2	SOUTH OF FIJI ISLANDS.
9	06 06 18.4	26.2 N	143.7 E	33	4.9	BONIN ISLANDS REGION.
9	06 35 14.9	6.9 S	129.4 E	122	4.9	BANDA SEA.
9	09 39 48.1	37.5 N	3.7 W	15	4.3	SPAIN. SLIGHT DAMAGE AT GRANADA.
9	22 19 40.5	34.5 N	45.8 E	68	4.5	IRAN-IRAQ BORDER REGION.
9	23 48 12.6	46.5 N	152.7 E	54		KURILE ISLANDS.
10	02 39 26.5	7.4 N	73.0 W	140		NORTHERN COLOMBIA.
10	06 19 51*	41.9 N	107.8 W	33	4.1	WYOMING.
10	09 15 47.0	16.4 N	96.0 W	59	4.5	OAXACA, MEXICO. FELT.
10	14 18 15*	34.5 N	135.6 E	388	4.1	NEAR S. COAST OF SOUTHERN HONSHU.
10	17 37 08.7	33.0 S	69.4 W	80	5.4	CHILE-ARGENTINA BORDER REGION. FELT AT SANTIAGO.
10	21 36 32*	4.8 S	81.3 W	45	4.5	NEAR COAST OF NORTHERN PERU.
11	00 26 29.9	60.3 N	146.6 W	38	4.7	SOUTHERN ALASKA.
11	04 23 56.0	23.9 S	66.6 W	195	5.3	JUJUY PROVINCE, ARGENTINA. MAG. 4 3/4-5 (BRK).
11	11 04 39*	26.4 S	177.8 W	217	4.7	SOUTH OF FIJI ISLANDS.
11	19 47 53.3	16.5 N	93.6 W	130	4.2	CHIAPAS, MEXICO.
12	05 58 08*	40.0 N	139.9 E	33	4.0	NEAR WEST COAST OF HONSHU, JAPAN.
12	06 30 00*	1.7 N	127.8 E	172		HALMAHERA.
12	08 45 05.5	44.2 N	114.6 W	33		WESTERN IDAHO.
12	09 59 01*	21.7 S	66.6 W	309	3.8	SOUTHERN BOLIVIA.
12	10 48 19.2	24.7 S	170.5 E	33	4.0	LOYALTY ISLANDS REGION.
12	12 43 19.0	4.4 S	144.0 E	120	6.3	NEAR NORTH COAST OF NEW GUINEA. MAG. 6 1/2 (PAS), 6 1/4-6 1/2 (BRK). FELT IN NORTH-EAST NEW GUINEA.
12	14 05 49.3	11.9 N	143.6 E	33	4.5	SOUTH OF MARIANA ISLANDS.
12	15 19 22.3	17.4 S	179.9 W	561	5.8	FIJI ISLANDS REGION. MAG. 4 1/4-4 1/2 (BRK).
12	17 08 38.1	18.5 S	67.0 W	237	4.2	BOLIVIA.
12	18 25 30.7	9.1 N	137.9 E	33	4.4	WEST CAROLINE ISLANDS.

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SEP	H M S	DEG	DEG	KM		
12	19 05 47.4	11.2 N	86.9 W	33	4.7	NEAR COAST OF NICARAGUA.
12	20 25 53.5	45.4 N	149.7 E	53	4.8	KURILE ISLANDS.
12	21 19 39*	12.5 N	89.1 W	55	4.2	OFF COAST OF CENTRAL AMERICA.
12	22 07 03.2	49.1 S	164.2 E	33	6.9	AUCKLAND ISLANDS REGION. MAG. 7 1/2 (PAS), 7 1/2 (BRK), 6 1/2-6 3/4 (PAL).
13	00 21 06.7	49.3 S	163.7 E	33		AUCKLAND ISLANDS REGION.
13	02 50 18.2	49.4 S	162.9 E	33		AUCKLAND ISLANDS REGION.
13	03 26 36*	28.1 S	66.5 W	54	4.4	CATAMARCA PROVINCE, ARGENTINA.
13	04 47 45.4	6.3 S	127.8 E	373	5.0	BANDA SEA.
13	07 27 29*	12.4 N	89.2 W	51	4.3	OFF COAST OF CENTRAL AMERICA.
13	08 46 46*	15.6 S	172.7 W	33	4.2	SAMOA ISLANDS REGION.
13	09 29 08*	53.9 N	168.7 E	33	4.2	KOMANDORSKY ISLANDS REGION.
13	10 29 17*	15.1 N	44.7 W	33	4.3	NORTH ATLANTIC RIDGE.
13	11 03 50.0	19.8 S	177.7 W	357	5.2	FIJI ISLANDS REGION.
13	11 52 19*	16.3 N	91.8 W	234	3.8	MEXICO-GUATEMALA BORDER REGION.
13	12 41 50.6	17.6 S	178.0 W	421	4.4	FIJI ISLANDS REGION.
13	15 07 31.9	49.4 S	163.3 E	33		AUCKLAND ISLANDS REGION.
13	15 52 24*	15.8 S	172.9 W	33	4.7	SAMOA ISLANDS REGION.
13	16 55 48*	50.3 N	153.0 E	249	4.3	KURILE ISLANDS.
13	17 44 10*	61.4 N	149.8 W	33	3.9	SOUTHERN ALASKA. FELT AT ANCHORAGE.
13	19 40 44*	58.8 N	154.9 W	83	4.7	ALASKA PENINSULA.
13	21 38 32.0	18.2 N	100.5 W	20	4.3	GUERRERO, MEXICO.
13	22 31 22*	54.4 N	163.7 W	33	3.7	UNIMAK ISLAND REGION.
13	23 01 06*	58.5 N	30.8 W	33	4.3	NORTH ATLANTIC OCEAN.
13	23 23 35*	58.3 N	32.4 W	25	4.3	NORTH ATLANTIC OCEAN.
14	06 19 51*	59.3 N	32.1 W	33	4.6	NORTH ATLANTIC OCEAN.
14	06 34 42*	59.4 N	31.2 W	33	4.5	NORTH ATLANTIC OCEAN.
14	10 17 46.6	56.7 N	157.4 W	61	5.7	ALASKA PENINSULA.
14	10 48 18*	17.9 S	69.7 W	192	3.5	PERU-BOLIVIA BORDER REGION.
14	11 35 54*	52.3 N	170.8 W	50	3.8	FOX ISLANDS, ALEUTIAN ISLANDS.
14	11 58 31*	41.9 S	89.5 W	33	4.5	SOUTHERN PACIFIC OCEAN.
14	12 25 04.4	44.7 N	146.4 E	149	4.4	KURILE ISLANDS.
14	12 56 32.2	9.5 S	111.8 E	127		SOUTH OF JAVA.
14	13 33 33.7	15.0 N	93.2 W	64	4.9	NEAR COAST OF CHIAPAS, MEXICO. MAG. 4 3/4-5 1/4 (BRK). FELT IN WESTERN EL SALVADOR.
14	15 21 09.0	28.0 N	55.8 E	33	4.8	SOUTHERN IRAN.
14	15 45 22.2	15.5 N	90.8 W	38	4.8	GUATEMALA. MAJOR DAMAGE AT SACAPULAS. FELT AT GUATEMALA CITY.
14	20 40 26.5	45.2 N	150.3 E	33	5.0	KURILE ISLANDS.

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SEP	H M S	DEG	DEG	KM		
14	22 41 17.2	16.0 N	99.9 W	33	4.7	NEAR COAST OF GUERRERO, MEXICO.
14	23 55 49.8	44.8 N	147.8 E	33	4.2	KURILE ISLANDS.
15	01 00 08.0	15.6 S	175.9 W	9	4.9	TONGA ISLANDS.
15	05 09 23*	15.1 N	91.0 W	33	3.8	MEXICO-GUATEMALA BORDER REGION.
15	05 37 45.4	0.1 S	124.6 E	33	5.3	MOLUCCA SEA.
15	07 51 28.8	15.4 N	90.6 W	33	3.9	GUATEMALA.
15	08 57 56.5	56.4 S	27.2 W	33	6.1	SOUTH SANDWICH ISLANDS REGION.
15	11 44 13.7	22.2 S	175.2 W	33	4.7	TONGA ISLANDS REGION.
15	12 44 12.2	16.0 S	172.9 W	33	5.3	SAMOA ISLANDS REGION.
15	13 12 54*	15.8 S	173.1 W	33	4.6	TONGA ISLANDS.
15	15 29 32.2	8.9 N	93.1 E	37	6.2	NICOBAR ISLANDS REGION. MAG. 6 3/4 (PAS), 7 1/2 (BRK), 5 1/2 (PAL).
15	16 13 33*	41.6 S	73.6 W	82	4.2	NEAR COAST OF SOUTHERN CHILE.
15	18 37 10.1	6.6 S	146.8 E	59	5.1	EAST NEW GUINEA REGION.
15	18 44 49*	48.6 N	154.0 E	33	4.7	KURILE ISLANDS.
15	20 23 35.2	54.5 S	53.4 W	33	5.2	SOUTH ATLANTIC OCEAN.
15	21 00 31.7	58.7 S	66.5 W	33	5.2	DRAKE PASSAGE.
15	21 56 07.2	15.3 N	90.8 W	74	4.4	GUATEMALA.
16	01 26 26.9	10.9 N	93.1 E	47	5.7	ANDAMAN ISLANDS REGION.
16	01 50 33.9	60.0 N	147.1 W	29	5.5	SOUTHERN ALASKA. MAG. 5 3/4 (PAS), 5 1/2-5 3/4 (BRK), 5 3/4-6 (PAL).
16	03 32 34*	51.6 N	173.8 W	45	4.2	ANDREANOF ISLANDS, ALEUTIAN IS.
16	05 20 46.1	5.9 S	152.0 E	29	6.2	NEW BRITAIN REGION.
16	05 34 30.7	37.1 N	114.9 W	33		SOUTHERN NEVADA.
16	08 42 15*	19.6 N	106.9 W	33	3.6	OFF COAST OF JALISCO, MEXICO.
16	12 22 44*	34.4 N	119.4 W	14	3.8	SOUTHERN CALIFORNIA. MAG. 4-4 1/2 (BRK).
16	14 40 38*	31.4 N	114.0 W	33	4.3	GULF OF CALIFORNIA.
16	15 13 01.5	43.7 N	141.2 E	166	4.2	HOKKAIDO, JAPAN REGION.
16	17 23 16.1	10.3 S	161.3 E	46	4.7	SOLOMON ISLANDS.
16	19 26 25*	41.6 N	139.3 E	33	4.4	HOKKAIDO, JAPAN REGION.
16	20 32 11.2	29.7 S	69.7 W	76	4.6	CHILE-ARGENTINA BORDER REGION.
16	20 47 16.0	16.1 S	176.5 W	352	5.1	FIJI ISLANDS REGION.
16	22 22 18*	59.6 N	146.7 W	33	4.3	GULF OF ALASKA.
16	22 23 36.3	22.9 N	45.1 W	33	5.4	NORTH ATLANTIC RIDGE. MAG. 5 1/2 (BRK), 5 (PAL).
16	22 37 26.5	56.3 N	162.8 E	29	5.1	NEAR EAST COAST OF KAMCHATKA.
17	02 06 27*	59.1 N	148.3 W	33	4.2	KENAI PENINSULA, ALASKA.
17	02 48 52.2	17.6 N	100.3 W	74	4.4	GUERRERO, MEXICO.
17	05 56 31*	28.3 N	143.4 E	33	4.5	BONIN ISLANDS REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
17	06 59 37.8	26.5 S	176.4 W	33	4.8	SOUTH OF FIJI ISLANDS.
17	07 41 13.9	15.6 S	72.9 W	118	5.0	SOUTHERN PERU.
17	10 57 51*	4.9 N	76.2 W	120	4.5	COLOMBIA.
17	15 02 00.9	44.5 N	31.3 W	24	5.6	NORTH ATLANTIC RIDGE. MAG. 5 1/4-5 1/2 (BRK), 5 (PAL).
17	15 06 13.8	12.8 S	168.9 E	622	4.5	SANTA CRUZ ISLANDS REGION.
17	22 07 40*	38.7 N	71.9 W	0		OFF EAST COAST OF UNITED STATES. ACCIDENTAL CHEMICAL EXPLOSION.
17	22 17 20*	42.8 N	110.8 W	33	4.0	WYOMING.
18	00 08 42.6	35.4 N	28.8 E	18	4.7	EASTERN MEDITERRANEAN SEA.
18	06 00 21*	20.1 S	67.6 W	290	3.6	SOUTHERN BOLIVIA.
18	07 20 34*	54.2 N	164.0 W	33	4.4	UNIMAK ISLAND REGION.
18	07 59 54.8	72.9 N	55.2 E	0	4.3	NOVAYA ZEMLYA.
18	10 25 28.1	19.4 N	155.3 W	10	4.8	HAWAII REGION. MAG. 4 1/2 (PAS). FELT.
18	12 22 13.3	51.4 N	179.9 W	33	4.8	ANDREANOF ISLANDS, ALEUTIAN IS.
18	13 06 00.2	5.9 S	103.4 E	86	5.3	SOUTHERN SUMATRA.
18	13 12 42.3	39.8 N	29.7 W	20	5.5	AZORES ISLANDS. MAG. 6 (PAS).
18	19 09 04*	58.3 N	151.8 W	53	4.7	KODIAK ISLAND REGION.
18	22 01 28.3	44.9 N	111.2 W	41		HEBGEN LAKE REGION.
19	00 39 10.7	36.5 N	70.0 E	212	4.7	HINDU KUSH REGION.
19	05 08 15.1	15.3 N	94.0 W	42	5.3	NEAR COAST OF OAXACA, MEXICO. MAG. 6 (PAS), 5 1/2-6 (BRK), 5 1/2-5 3/4 (PAL).
19	10 06 38*	20.8 S	178.3 W	434		FIJI ISLANDS REGION.
19	12 13 15*	70.0 N	11.7 E	33	4.1	NORWEGIAN SEA.
19	17 26 13.0	5.6 S	81.0 W	33	4.8	NEAR COAST OF NORTHERN PERU.
19	19 41 21.8	21.6 N	120.9 E	33	4.3	TAIWAN REGION.
19	21 34 10.2	22.1 S	177.6 W	251	4.4	SOUTH OF FIJI ISLANDS.
20	03 25 36*	6.8 S	108.9 E	240	5.9	JAVA.
20	04 20 17.6	49.5 S	116.2 W	33	4.5	EASTER ISLAND CORDILLERA.
20	04 33 29.4	49.6 S	116.2 W	33	5.2	EASTER ISLAND CORDILLERA. MAG. 6 1/2 (BRK), 5 1/4-5 1/2 (PAL).
20	07 42 28*	41.3 N	124.9 W	33	4.3	NEAR COAST OF NORTHERN CALIF.
20	09 18 19*	32.4 N	141.6 E	33	4.3	SOUTH OF HONSHU, JAPAN.
20	14 36 05.3	30.0 N	138.1 E	454	4.9	SOUTH OF HONSHU, JAPAN.
20	18 59 55*	62.1 N	4.2 E	33	4.2	NORWEGIAN SEA.
20	20 43 10.9	24.0 N	121.8 E	37	5.1	TAIWAN.
21	00 10 36.8	5.0 N	76.0 W	116	5.0	COLOMBIA.
21	04 23 19.7	21.8 S	179.6 W	609	5.4	FIJI ISLANDS REGION.
21	05 37 48.9	7.0 S	129.4 E	123	5.2	BANDA SEA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
21	08 30 54.4	2.1 S	128.3 E	36	5.7	CERAM SEA.
21	12 01 46.6	17.8 S	167.3 E	33	5.1	NEW HEBRIDES ISLANDS.
21	13 27 32.9	7.2 S	74.3 W	150	4.6	PERU-BRAZIL BORDER REGION.
21	14 17 54.4	36.2 S	100.2 W	33	4.8	SOUTHERN PACIFIC OCEAN.
21	16 29 36*	48.0 N	152.9 E	5	4.8	KURILE ISLANDS.
21	16 57 36*	19.9 S	178.5 W	512	4.5	FIJI ISLANDS REGION.
21	18 10 51.6	30.1 S	179.5 W	319	5.2	KERMADEC ISLANDS.
21	19 29 25.2	12.1 N	142.9 E	33	4.8	SOUTH OF MARIANA ISLANDS.
21	21 23 43*	15.2 S	175.2 W	126		TONGA ISLANDS.
21	22 02 25*	48.0 N	152.7 E	31	4.7	KURILE ISLANDS.
21	23 16 35.8	20.2 S	177.8 W	511	4.4	FIJI ISLANDS REGION.
22	06 52 10.0	44.4 N	114.8 W	15	4.3	WESTERN IDAHO.
22	08 03 51.0	44.3 N	114.7 W	33		WESTERN IDAHO.
22	09 05 06.4	23.9 S	70.7 W	33	4.7	NEAR COAST OF NORTHERN CHILE. FELT.
22	09 07 32.8	43.7 N	147.7 E	33	5.0	KURILE ISLANDS.
22	09 46 27.8	10.6 N	70.0 W	12	4.1	VENEZUELA.
22	12 36 57.6	16.6 N	95.5 W	66	4.1	OAXACA, MEXICO.
22	13 27 29.7	13.3 N	89.7 W	78	4.8	EL SALVADOR. FELT AT SAN SALVADOR.
22	20 39 07.0	2.8 S	141.0 E	84	5.7	NEAR NORTH COAST OF NEW GUINEA.
23	01 41 01*	34.3 N	32.6 E	61	4.7	CYPRUS.
23	02 49 33*	13.4 S	174.4 W	301	3.9	SAMOA ISLANDS REGION.
23	04 59 47.4	53.6 N	163.9 W	29	5.5	UNIMAK ISLAND REGION. MAG. 5-5 1/4 (BRK).
23	06 18 57.4	53.7 N	163.6 W	13	4.8	UNIMAK ISLAND REGION.
23	07 52 39*	13.1 S	14.8 W	33	5.0	SOUTH ATLANTIC RIDGE.
23	13 28 06*	51.7 N	177.6 W	33	4.1	ANDREANOF ISLANDS, ALEUTIAN IS.
23	16 37 19*	61.6 N	150.0 W	33	4.1	SOUTHERN ALASKA.
23	17 18 12.1	5.8 N	126.4 E	132		MINDANAO, PHILIPPINE ISLANDS.
23	18 09 38*	35.9 N	114.8 W	15	4.4	CALIFORNIA-NEVADA BORDER REGION. FELT AT BOULDER CITY AND LAS VEGAS, NEVADA.
24	02 34 43.2	60.3 N	137.4 W	66	4.1	SOUTHERN YUKON TERRITORY, CANADA.
24	02 39 38*	56.5 N	157.0 W	33	4.3	ALASKA PENINSULA.
24	09 14 38.6	5.6 S	151.8 E	35	5.3	NEW BRITAIN REGION. FELT AT KERAVAT, PALMALMAL, AND RABAUL.
24	09 34 26.5	60.9 N	143.7 W	7	4.0	SOUTHERN ALASKA.
24	12 51 32*	38.3 N	118.4 W	15		CALIFORNIA-NEVADA BORDER REGION.
24	13 59 36.8	43.5 N	127.5 W	14	6.1	OFF COAST OF OREGON.
24	14 34 48.0	20.7 N	144.6 E	146	4.8	MARIANA ISLANDS.
24	17 59 53.4	40.3 N	141.6 E	104	4.4	NEAR EAST COAST OF HONSHU, JAPAN.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
24	23 10 16*	5.5 S	151.5 E	92	5.0	NEW BRITAIN REGION. FELT AT KERAVAT.
24	23 37 23.5	51.5 N	177.1 W	49	4.7	ANDREANOF ISLANDS, ALEUTIAN IS.
25	01 54 18*	13.3 N	89.4 W	94	4.0	EL SALVADOR.
25	04 55 22*	57.5 N	144.5 W	33	4.5	GULF OF ALASKA.
25	05 21 33.0	52.1 N	174.7 W	33	4.6	ANDREANOF ISLANDS, ALEUTIAN IS.
25	06 33 35.1	8.9 S	108.4 W	33	4.3	NORTHERN EASTER I. CORDILLERA.
25	07 52 05*	16.0 N	93.4 W	33	3.6	CHIAPAS, MEXICO.
25	14 33 51*	8.9 S	108.3 W	33	4.4	NORTHERN EASTER I. CORDILLERA.
25	14 46 32*	18.9 N	145.7 E	151	4.4	MARIANA ISLANDS.
25	15 42 17.9	50.3 N	176.6 E	30	5.5	RAT ISLANDS, ALEUTIAN ISLANDS.
25	16 32 23*	56.7 N	152.8 W	33	4.1	KODIAK ISLAND REGION.
25	17 24 44.9	53.6 N	163.9 W	33	5.1	UNIMAK ISLAND REGION.
25	20 28 33.5	3.8 S	139.0 E	171	5.8	WEST NEW GUINEA.
25	23 27 49.7	30.7 S	179.9 W	424	5.3	KERMADEC ISLANDS.
26	00 46 02.8	30.1 N	80.7 E	50	6.2	TIBET-INDIA BORDER REGION.
26	03 38 32.7	17.7 S	173.3 W	33	5.1	TONGA ISLANDS.
26	06 29 01.4	81.0 N	5.1 W	24	4.4	NORTH OF SVALBARD.
26	07 50 19*	49.0 S	164.5 E	33	5.2	AUCKLAND ISLANDS REGION.
26	22 55 14.8	4.9 S	153.5 E	34	5.5	NEW IRELAND REGION. FELT AT RABAUL.
27	01 27 06*	24.9 N	140.5 E	33	4.6	VOLCANO ISLANDS REGION.
27	03 40 56.8	44.1 N	149.0 E	35	4.7	KURILE ISLANDS.
27	06 36 25.3	16.1 S	176.0 W	332	4.5	FIJI ISLANDS REGION.
27	07 53 53.4	2.2 N	126.5 E	70	5.3	MOLUCCA PASSAGE.
27	09 53 36.6	2.3 N	126.7 E	100	5.1	MOLUCCA PASSAGE.
27	13 24 23.9	28.3 S	178.3 W	220	4.2	KERMADEC ISLANDS.
27	15 24 17.2	11.3 S	116.6 E	33	5.2	SOUTH OF SUMBAWA ISLAND.
27	15 50 54.7	56.6 N	152.0 W	27	5.4	KODIAK ISLAND REGION. MAG. 5 1/4 (BRK).
27	22 01 40.2	5.5 S	151.6 E	50	5.4	NEW BRITAIN REGION. FELT AT RABAUL.
27	22 58 29.3	21.4 S	68.7 W	132	5.4	CHILE-BOLIVIA BORDER REGION.
28	01 05 35.2	10.5 N	60.1 W	63	4.5	TRINIDAD.
28	03 20 59*	13.3 N	90.1 W	72	3.8	NEAR COAST OF GUATEMALA.
28	05 04 55.5	1.2 S	24.1 W	37	5.5	CENTRAL MID-ATLANTIC RIDGE.
28	05 25 12.1	13.6 N	90.0 W	33	4.3	NEAR COAST OF GUATEMALA.
28	05 39 34.8	40.0 S	74.1 W	33	4.7	OFF COAST OF SOUTHERN CHILE.
28	06 51 05.3	36.3 N	71.6 E	118	5.5	AFGHANISTAN-USSR BORDER REGION.
28	07 16 02.9	15.2 N	94.1 W	47	3.7	NEAR COAST OF OAXACA, MEXICO.
28	12 53 55.1	22.0 S	179.4 W	548	4.1	SOUTH OF FIJI ISLANDS.
28	15 43 13.6	43.5 N	127.1 W	33	4.8	OFF COAST OF OREGON.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
28	16 25 54.6	34.0 N	141.2 E	71	5.0	OFF EAST COAST OF HONSHU, JAPAN.
28	18 30 20.2	61.0 N	147.4 W	89	4.5	SOUTHERN ALASKA.
28	20 06 46.0	5.2 S	150.5 E	224	5.5	NEW BRITAIN REGION.
28	22 39 46*	2.5 S	138.7 E	82	4.7	WEST NEW GUINEA.
28	23 59 30.5	7.5 S	146.7 E	152	4.8	EAST NEW GUINEA REGION.
29	01 26 37*	16.1 S	168.1 E	172		NEW HEBRIDES ISLANDS.
29	02 00 02*	57.8 N	149.5 W	44	3.8	GULF OF ALASKA.
29	05 30 59.5	18.1 S	175.4 W	197	4.8	TONGA ISLANDS.
29	06 30 30.6	15.8 N	93.3 W	33	3.9	NEAR COAST OF CHIAPAS, MEXICO.
29	13 47 24.3	33.3 N	141.9 E	41	4.6	OFF EAST COAST OF HONSHU, JAPAN.
29	14 00 14.9	20.4 S	174.4 W	29	5.7	TONGA ISLANDS. MAG. 6 1/2 (PAS), 5 3/4 (BRK).
29	18 46 15.3	8.6 S	74.5 W	170	4.1	PERU-BRAZIL BORDER REGION.
29	20 31 51.9	16.4 S	69.3 W	139	4.0	PERU-BOLIVIA BORDER REGION.
29	22 30 48.4	34.3 N	23.0 E	33		CRETE.
30	03 47 00.3	22.9 S	179.1 W	368	3.9	SOUTH OF FIJI ISLANDS.
30	04 39 44.0	34.5 N	23.4 E	43	4.6	CRETE.
30	06 25 54.2	0.5 N	126.6 E	77		MOLUCCA PASSAGE.
30	08 23 12.2	32.5 S	71.6 W	33	4.3	NEAR COAST OF CENTRAL CHILE. FELT AT SANTIAGO AND VALPARAISO.
30	10 38 28.9	0.1 S	97.8 E	33		SOUTHWEST OF SUMATRA.
30	14 46 28.9	11.6 S	166.5 E	118	3.9	SANTA CRUZ ISLANDS.
30	17 51 35*	35.3 N	118.0 W	33	4.2	CENTRAL CALIFORNIA.
30	19 14 08.0	35.6 N	139.3 E	79	4.8	NEAR S. COAST OF HONSHU, JAPAN. FELT AT TOKYO.
30	20 27 24.1	58.4 N	151.3 W	17	5.1	KODIAK ISLAND REGION.

Date and Station	Phase (GCT)
	h m s
SEP 01	
ALQ EP	00 23 35.0
SEP 01	
GUA E(P)	00 57 47.1
SEP 01	
COL E(P)	01 30 18.5
SEP 01	
BOZ EP	01 33 58.8
SEP 01	
RCD EP	02 26 26.0
E	26 38.0
SEP 01	
COL EP	04 08 30.0
SEP 01	
TUC EP	06 04 12.8
SEP 01	
COL EP	07 39 37.0
SEP 01	
GUA IP	10 01 46.8
IS	02 00.8
SEP 01	
EUR EP	10 27 50.0
SEP 1	
H-10 40 01.3	
30.9N 049.9E	
h ABOUT 042KM	
COL EP	10 52 25.0
SEP 01	
BOZ EP	11 07 03.0
SEP 01	
BOZ EP	11 49 39.8
SEP 1	
H-12 45 23.8	
76.1N 120.8E	
h ABOUT 033KM	
BOZ EP	12 54 44.9
EUR EP	12 55 25.6
SEP 1	
H-13 22 36.6	
27.2N 092.3E	
h ABOUT 033KM	
COL IP	13 34 29.6
BOZ E(P)	13 36 44.4
EUR EP'	13 40 59.1
EPP	41 30.2
ALQ EP'	13 41 20.0
E	41 26.0
EPP	42 26.0
SEP 01	
HHM E(P)	13 40 03.0

Date and Station	Phase (GCT)
	h m s
SEP 01	
GUA EP	14 21 14.0
SEP 01	
GUA EP	14 21 40.8
SEP 01	
EUR IP	14 59 03.9
E(S)	59 36.9
SEP 01	
BOZ EP	15 55 18.0
EUR EP	15 55 25.9
SEP 01	
GUA EP	16 55 12.3
E	57 14.5
ES	58 14.5
SEP 01	
SIT EP	17 03 37.7
SEP 1	
H-17 16 40.4	
51.2N 170.6W	
h ABOUT 025KM	
COL IP	17 20 49.5
E(S)	24 19.0
SIT E(P)	17 21 31.4
HON ES	17 28 10.0
HHM IP D	17 23 40.5
E	23 44.5
EPCP	26 06.5
BUT E(P)	17 23 57.0
BOZ IP D	17 24 03.6
E	24 08.3
EUR IP	17 24 09.9
IPCP	26 16.9
FGU EP	17 24 36.0
GCA IP	17 24 44.1
TUC IP D	17 25 12.4
EPCP	26 43.5
ALQ IP D	17 25 20.0
E	25 27.0
EPCP	26 47.0
GUA IP	17 25 46.1
I	26 23.5
CSC EP	17 27 13.0
SJP EP	17 29 13.0
SEP 01	
COL EP	19 39 39.0
SEP 01	
H-19 49 13.8	
36.7N 122.0W	
h ABOUT 014KM	
UKI E(P)	19 50 08.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	19 50 47.4
SEP 01	
COL E(P)	22 31 04.3
SEP 01	
EUR EP	22 35 06.6
TUC EP	22 35 24.8
E(L)	35 50.3
SEP 02	
COL IP	01 40 30.3
E(S)	40 45.6
SEP 02	
TUC E(P)	02 00 47.0
SEP 02	
TUC EP	04 18 54.6
SEP 02	
COL E(P)	04 25 15.7
SEP 02	
TUC E(P)	07 33 51.3
SEP 02	
COL EP	07 44 46.4
SEP 02	
COL E(P)	08 21 28.5
E(S)	22 07.2
SEP 02	
TUC EP	08 33 45.8
SEP 02	
GUA E(P)	08 58 15.2
SEP 02	
TUC E(P)	09 06 11.1
BCN E(P)	09 07 24.2
EL	08 27.0
SEP 02	
EUR EP	09 12 13.9
E(S)	12 45.6
SEP 02	
TUC E(P)	10 45 46.0
BCN E(P)	10 46 38.5
EL	47 39.0
SEP 02	
COL EP	10 51 56.0
E(S)	52 47.5
SEP 02	
BHP IP	11 37 56.0
IS	38 11.0
SEP 02	
COL EP	11 57 32.0
E(S)	58 37.7
SEP 02	
EUR EP	12 08 14.4
E(S)	08 50.0

Date and Station	Phase (GCT)
	h m s
SEP 02	
EUR EP	13 11 39.9
E(S)	12 15.5
SEP 02	
COL EP	13 23 37.3
SEP 02	
COL EP	13 31 52.8
SEP 02	
UKI E(P)	13 49 18.0
SEP 02	
COL E(P)	14 27 50.2
SEP 02	
RCD EP	14 45 08.0
SEP 2	
H-15 19 07.3	
07.1N 078.5W	
h ABOUT 033KM	
BHP IP	15 19 39.0
IS	21 00.0
TUC EP	15 26 35.3
EUR IP	15 27 35.8
BOZ EP	15 27 44.9
COL EP	15 30 47.6
SEP 02	
EUR IP	15 54 57.6
SEP 02	
COL IP	16 19 46.4
IS	20 06.2
SEP 02	
EUR IP	16 19 29.2
EL	19 38.9
SEP 02	
COL EP	17 48 04.0
E	48 13.0
SEP 2	
H-18 12 22.9	
07.8N 073.3W	
h ABOUT 112KM	
BHP IP	18 13 52.0
IS	15 09.0
SJP IP	18 15 03.5
ES	17 14.5
TUC EP	18 20 10.5
RCD EP	18 20 26.0
E	20 30.0
GCA EP	18 20 33.5
FGU E(P)	18 20 38.5
BCN EP	18 20 47.8
I	20 52.2
SLC E(P)	18 20 49.6

Date and Station	Phase	(GCT)
		h m s
EUR	IP	18 21 05.6
BOZ	EP	18 21 08.8
	E	21 12.5
BUT	EP	18 21 12.1
COL	EP	18 24 02.0
SEP 02		
TUC	E(P)	18 43 27.0
SEP 02		
TUC	E(P)	19 08 14.3
SEP 02		
GCA	EP	19 10 30.5
SEP 02		
TUC	EP	21 05 40.8
	EL	06 01.0
SEP 2		
H-21 32 39.6		
18.6S 169.4E		
h ABOUT 218KM		
COL	IP	21 45 10.3
BCN	EP	21 45 16.0
EUR	IP	21 45 17.9
TUC	EP	21 45 24.3
SEP 02		
TUC	E(P)	21 40 47.4
SEP 02		
EUR	EP	22 41 11.1
SEP 02		
COL	IP	22 54 10.7
SEP 03		
SIT	E(P)	02 10 52.0
SEP 3		
H-02 45 07.2		
59.5N 144.8W		
h ABOUT 019KM		
COL	EP	02 46 32.0
HHM	E(P)	02 49 51.0
BOZ	EP	02 50 22.1
EUR	EP	02 50 50.3
TUC	EP	02 52 04.1
SEP 03		
GUA	EP	04 44 59.0
	ES	45 16.5
SEP 3		
H-05 31 15.0		
50.5N 129.5W		
h ABOUT 029KM		
HHM	EP	05 33 43.7
	EL	37 11.7
BUT	E(P)	05 34 06.0
UKI	EP	05 34 09.5
BOZ	EP	05 34 19.3
	E	34 32.0
	EL	37 50.0
EUR	IP	05 34 41.5
	I	34 48.3
SLC	E(P)	05 34 56.1
COL	EP	05 35 16.0
BCN	EP	05 35 25.5
RCD	EP	05 35 39.0
	E(S)	39 24.0
TUC	EP	05 36 17.2
	ES	40 32.0
SEP 03		
EUR	EP	07 29 27.3
SEP 3		
H-08 25 46.9		
53.2N 162.4E		
h ABOUT 033KM		
COL	EP	08 31 30.0
BOZ	EP	08 35 03.3
EUR	IP	08 35 17.2
RCD	EP	08 35 45.0
	E	35 48.0
SEP 03		
COL	EP	09 32 20.7
SEP 3		
H-10 06 55.9		
30.9S 068.4W		
h ABOUT 113KM		
TUC	EP	10 18 24.0
	EpP	18 53.5
BCN	EP	10 18 52.1
	EpP	19 21.3
RCD	EP	10 19 03.0
	EpP	19 32.0
EUR	IP	10 19 09.5
	IpP	19 38.1
BOZ	EP	10 19 23.3
BUT	IP	10 19 27.2
	EpP	19 57.2
HHM	EP	10 19 37.8
	EpP	20 07.2
COL	E(P')	10 25 20.2
GUA	IP'	10 26 19.2
	I	27 10.1
SEP 3		
H-10 23 47.8		
10.4S 160.5E		
h ABOUT 057KM		
COL	IP	10 36 13.9
EUR	IP	10 36 50.6
SEP 03		
COL	EP	10 28 15.0
SEP 03		
COL	EP	10 29 18.0
SEP 3		
H-11 23 02.8		
28.4S 177.1W		
h ABOUT 312KM		
TUC	EP	11 35 15.0
SEP 3		
H-11 36 23.8		
06.8N 073.4W		
h ABOUT 173KM		
BHP	IP	11 37 56.0
TUC	EP	11 44 09.0
EUR	EP	11 45 04.9
BOZ	EP	11 45 09.2
SEP 3		
H-11 48 36.1		
43.5N 127.1W		
h ABOUT 033KM		
EUR	IP	11 50 52.5
	I	51 00.1
HHM	EP	11 51 03.6
	E	51 07.9
BOZ	EP	11 51 16.8
BCN	EP	11 51 30.7
	E	52 08.5
TUC	EP	11 52 35.0
RCD	E(P)	11 52 39.0
COL	EP	11 53 52.0
SEP 3		
H-12 32 00.6		
59.4N 145.2W		
h ABOUT 035KM		
COL	IP	12 33 23.6
BOZ	EP	12 37 17.1
	E	37 24.3
EUR	EP	12 37 43.6
SEP 3		
H-12 57 22.3		
17.9S 178.0W		
h ABOUT 567KM		
COL	E(P)	13 09 01.1
SEP 03		
GUA	E(P)	13 36 26.5
SEP 03		
COL	E(P)	13 53 21.8
SEP 03		
EUR	EP	13 58 37.5
SEP 03		
TUC	EP	16 05 29.5
SEP 03		
COL	EP	16 11 06.0
SEP 03		
COL	IP	16 54 43.0
SEP 3		
H-16 58 55.4		
15.2S 173.5W		
h ABOUT 033KM		
BCN	EP	17 10 37.4
TUC	EP	17 10 43.8
EUR	IP	17 10 43.9
ALQ	EP	17 11 08.0
COL	IP	17 11 14.1
HHM	EP	17 11 12.7
BOZ	EP	17 11 15.5
SEP 03		
ALQ	EP	17 24 15.0
SEP 3		
H-17 38 10.9		
19.6N 109.1W		
h ABOUT 033KM		
TUC	EP	17 41 12.2
ALQ	EP	17 41 49.0
	E	41 53.0
BCN	EP	17 42 09.0
EUR	IP	17 42 50.5
BOZ	EP	17 43 42.3
SEP 03		
COL	EP	18 03 53.3
SEP 03		
BCN	EP	18 19 45.0
SEP 3		
H-18 59 06.8		
59.8N 149.7W		
h ABOUT 033KM		
COL	IP	19 00 23.7
SEP 03		
FGU	IP	20 04 20.0
	EL	04 47.5

Date and Station	Phase (GCT)
	h m s
EUR EP	20 04 51.3
E(S)	05 46.8
SEP 3	
H-21 04 13.3	
59.7N 144.0W	
h ABOUT 033KM	
SIT E(P)	21 05 29.2
COL IP	21 05 33.8
HHM EP	21 08 53.8
E	08 59.8
BOZ EP	21 09 25.3
EUR EP	21 09 52.9
SEP 3	
H-21 14 43.2	
24.6N 108.6W	
h ABOUT 033KM	
TUC E(P)	21 16 35.3
EL	18 20.0
ALQ EP D	21 17 16.0
E	17 32.0
E(S)	19 18.0
BCN EP	21 17 42.6
E	18 15.5
EL	21 45.5
EUR IP	21 18 29.8
ES	21 46.9
EL	23 40.0
FGU IP	21 18 32.7
SLC IP	21 18 33.6
UKI E(P)	21 19 09.2
RCD EP	21 19 17.0
BOZ IP	21 19 26.9
E	19 33.4
BUT EP	21 19 38.1
HHM EP	21 19 54.8
I	20 01.8
CSC E(P)	21 20 10.0
PHI EL	21 28 11.0
COL E(P)	21 23 21.0
SEP 03	
GUA EP	21 22 50.0
SEP 03	
COL EP	21 47 46.0
SEP 03	
ALQ E(P)	21 56 22.0
EUR EP	21 57 36.8
SEP 03	
COL E(P)	21 58 37.5

Date and Station	Phase (GCT)
	h m s
SEP 3	
H-23 41 56.2	
24.2N 108.8W	
h ABOUT 015KM	
TUC EP	23 43 58.0
E(L)	46 08.0
ALQ EP	23 44 37.0
E	44 42.0
BCN EP	23 45 02.0
EL	49 10.0
EUR IP	23 45 48.8
EL	51 21.8
SLC E(P)	23 45 52.5
BOZ EP	23 46 46.3
COL EP	23 50 40.6
SEP 03	
COL EP	23 58 14.1
SEP 04	
GUA EP	01 01 23.8
ES	01 37.2
SEP 4	
H-01 16 29.9	
19.3N 109.1W	
h ABOUT 033KM	
TUC EP	01 19 34.0
ALQ E(P)	01 20 15.0
EUR EP	01 21 11.2
SEP 4	
H-02 13 13.0	
19.1N 107.0W	
h ABOUT 033KM	
TUC EP	02 16 24.4
ALQ E(P)	02 17 06.0
EUR IP	02 18 02.3
SEP 04	
COL EP	03 23 57.8
SEP 4	
H-03 28 33.1	
07.6N 036.9W	
h ABOUT 022KM	
SJP EP	03 34 45.5
CSC E(P)	03 37 15.0
RCD EP D	03 39 33.0
ALQ IP D	03 39 38.5
E	39 47.0
TUC EP	03 39 55.2
FGU EP	03 39 55.5
SLC IP	03 40 06.9

Date and Station	Phase (GCT)
	h m s
BOZ IP	03 40 08.0
I	40 13.5
BUT EP	03 40 12.1
HHM E(P)	03 40 08.1
BCN EP	03 40 20.0
EUR IP	03 40 25.1
COL IP	03 41 41.0
SEP 04	
COL EP	03 36 28.6
SEP 4	
H-03 39 36.7	
39.8N 040.3E	
h ABOUT 033KM	
COL EP	03 51 17.0
EUR EP	03 53 14.1
SEP 04	
COL IP	04 05 09.5
SEP 4	
H-04 10 55.9	
59.2N 138.1W	
h ABOUT 033KM	
SIT IP	04 11 34.2
COL EP	04 12 44.5
BOZ IP	04 15 39.7
EUR EP	04 16 12.4
TUC EP	04 17 26.8
SEP 04	
COL EP	06 23 44.8
E	24 07.1
SEP 04	
BCN EP	07 13 33.9
EL	14 15.0
SEP 4	
H-08 12 45.4	
52.4N 158.6E	
h ABOUT 070KM	
EUR IP	08 22 29.6
SEP 04	
BOZ E(P)	08 56 36.0
SEP 4	
H-09 03 00.6	
28.5S 070.3W	
h ABOUT 044KM	
TUC EP	09 14 19.3
ALQ EP	09 14 21.0
BCN E(P)	09 14 49.0
EUR IP	09 15 07.1

Date and Station	Phase (GCT)
	h m s
BOZ EP	09 15 22.0
E(pP)	15 35.0
HHM EP	09 15 37.3
SEP 4	
H-09 20 36.1	
24.5N 108.7W	
h ABOUT 033KM	
TUC EP	09 22 32.1
ALQ EP	09 23 10.0
BCN EP	09 23 38.2
E	23 45.5
E	24 13.0
EUR IP	09 24 24.7
SLC EP	09 24 16.9
FGU E(P)	09 24 32.0
RCD E(P)	09 25 14.0
BOZ EP	09 25 21.2
BUT E(P)	09 25 25.0
HHM E(P)	09 25 49.0
SEP 04	
BCN E(F)	09 28 32.5
SEP 4	
H-09 36 58.7	
18.3S 069.0W	
h ABOUT 101KM	
SJP EP	09 43 55.5
E(sP)	44 25.5
ALQ EP	09 47 22.0
E	47 26.0
E>P	47 52.0
TUC IP	09 47 25.5
BCN IP D	09 47 57.8
E>P	48 28.9
FGU EP	09 48 00.5
RCD IP	09 48 01.0
E>P	48 32.0
SLC EP	09 48 07.9
EUR IP	09 48 15.9
E>P	48 46.5
BOZ IP	09 48 28.0
I(pP)	49 02.0
HHM EP	09 48 45.2
E(pP)	49 18.1
COL E(P)	09 50 40.4
GUA EP'	09 56 31.9

Date and Station	Phase	Phase (GCT) h m s
SEP 4		
H-09 50 06.6		
24.2N 108.6W		
h ABOUT 033KM		
TUC	EP	09 52 06.2
	ES	53 34.0
ALQ	EP D	09 52 45.0
BCN	EP	09 53 10.7
	E	53 20.0
	EL	57 26.0
EUR	IP	09 53 57.5
SLC	EP	09 54 01.0
FGU	E(P)	09 54 01.5
RCD	E(P)	09 54 42.0
BUT	E(P)	09 54 51.1
BOZ	EP	09 54 55.0
	EL	10 00 12.0
HHM	EP	09 55 24.0
CSC	E(P)	09 55 35.0
COL	EP	09 58 43.0
SEP 4		
H-09 55 16.0		
23.4N 108.8W		
h ABOUT 033KM		
EUR	IP	09 59 15.0
HHM	E(P)	10 00 39.0
COL	EP	10 03 58.2
SEP 4		
H-10 34 13.1		
4.0S 131.4E		
h ABOUT 033KM		
GUA	IP	10 39 05.2
	IS	43 05.0
KIP	IP	10 45 46.0
	IS	55 18.0
	EPS	55 54.0
	EL	11 03 40.0
	E	05 55.0
HON	EP	10 45 46.0
	EL	11 03 40.0
	E	05 54.0
COL	IP	10 47 07.8
HHM	E(P)	10 48 39.0
EUR	EP'	10 52 44.5
	IPP	53 15.9
	EPKKP	11 03 48.3
BCN	EP'	10 52 53.0
	EPP	53 27.0
	E	54 12.0
	EPKKP	11 03 48.5
TUC	EP'	10 52 55.6
	EPKKP	11 03 28.8
RCD	EP'	10 52 59.0
	EPKKP	11 03 24.0
ALQ	EP'	10 53 01.0
	E	53 13.0
SEP 04		
CSC	E(P)	10 54 17.0
SEP 04		
SJP	EP	10 54 41.2
SEP 04		
COL	IP	13 01 19.7
	IS	01 35.2
SEP 04		
BOZ	E(P)	14 02 09.0
SEP 04		
GUA	I(P)	15 17 21.0
SEP 04		
BCN	EP	15 33 29.0
SEP 04		
COL	EP	16 06 57.6
	E	07 02.3
	E(S)	07 21.5
SEP 4		
H-16 10 53.0		
04.0S 131.5E		
h ABOUT 037KM		
COL	EP	16 23 48.0
SEP 04		
COL	EP	16 28 27.3
	E(S)	28 44.6
SEP 04		
SJP	IP	16 54 29.5
	IS	54 53.0
SEP 4		
H-17 10 28.4		
03.9S 131.5E		
h ABOUT 033KM		
GUA	EP	17 15 21.0
COL	EP	17 23 24.0
SEP 4		
H-17 21 13.6		
07.9N 103.5W		
h ABOUT 021KM		
TUC	EP	17 26 39.4
EUR	EP	17 27 54.0
BOZ	EP	17 28 32.5
SEP 04		
H-18 15 00.0		
37.0N 116.0W		
h ABOUT 000KM		
BCN	IP C	18 15 26.2
	IS	15 48.1
EUR	IP	18 15 42.0
SLC	EP	18 16 19.0
TUC	EP	18 16 36.8
	E	16 44.7
FGU	E(P)	18 16 40.6
ALQ	EP	18 17 01.0
	E	17 29.0
BUT	E(P)	18 17 21.0
COL	EP	18 21 44.2
SEP 04		
EUR	EP	18 28 28.7
SEP 04		
H-18 35 04.3		
37.0N 116.0W		
h ABOUT 000KM		
BCN	I(P)	18 35 21.0
EUR	EP	18 35 36.8
TUC	E(P)	18 36 19.0
ALQ	E(P)	18 37 23.0
SEP 04		
GUA	EP	18 43 36.9
SEP 4		
H-18 37 32.6		
51.7N 174.7E		
h ABOUT 033KM		
COL	EP	18 42 37.5
BOZ	EP	18 46 02.5
EUR	EP	18 46 12.0
SEP 04		
BOZ	EP	19 17 11.0
	E	19 48.0
SEP 4		
H-20 20 24.8		
37.4N 118.6W		
h ABOUT 014KM		
EUR	IP	20 21 10.1
BCN	E(P)	20 21 24.0
	EL	22 04.0
SEP 04		
COL	E(P)	20 33 46.0
SEP 04		
COL	EP	22 08 06.0
SEP 04		
COL	EP	22 14 40.7
SEP 04		
EUR	IP	22 19 48.1
	EL	19 59.9
SEP 04		
SLC	E(P)	22 49 22.1
FGU	EP	22 49 44.4
SEP 04		
FGU	E(P)	22 57 57.8
BOZ	EP	22 58 28.8
SEP 04		
CSC	E(P)	23 47 33.0
SEP 05		
COL	EP	00 22 08.0
SEP 05		
EUR	IP	00 25 20.1
	I	25 41.9
SEP 05		
TUC	EP	01 28 09.8
SEP 05		
BCN	E(P)	01 29 59.7
	EL	30 00.0
SEP 5		
H-02 09 21.4		
24.4S 068.2W		
h ABOUT 064KM		
ALQ	EP	02 20 18.0
	E	20 24.0
TUC	IP	02 20 24.9
	EPCP	20 51.5
	E	21 03.8
BCN	EP	02 20 55.0
RCD	E(P)	02 20 55.5
FGU	EP	02 21 00.8
EUR	IP	02 21 12.5
	EPCP	21 22.3
	I	21 52.3
BOZ	IP D	02 21 26.0
BUT	IP	02 21 29.9
	E(sP)	21 57.9
HHM	EP	02 21 42.5
SEP 5		
H-02 17 14.4		
32.2S 179.5E		
h ABOUT 397KM		
KIP	IP	02 26 24.8
TUC	IP	02 29 40.8
EUR	IP	02 29 44.1
	E(pP)	31 22.8
BOZ	EP	02 30 13.0

Date and Station	Phase (GCT)
	h m s
COL E(P)	02 30 15.5
SEP 5	
H-02 53 50.6	
5.8S 154.0E	
h ABOUT 069KM	
GUA IP	02 58 32.4
ES	03 02 14.0
KIP EP	03 03 12.0
ES	10 50.0
ESS	14 50.0
EL	18 00.0
HON EP	03 03 12.0
COL EP C	03 06 04.5
IpP	06 23.3
EPKKP	24 19.2
EP'P'	32 34.7
SIT E(P)	03 06 16.0
EUR IP	03 07 00.9
EPP	10 49.9
EPKKP	24 08.6
EP'P'	32 21.3
SLC E(P)	03 07 04.0
BCN EP	03 07 04.8
IpP	07 24.5
EPP	10 49.5
EPKKP	24 07.4
EP'P'	32 22.5
HHM E(P)	03 07 10.9
EpP	07 28.3
EPP	11 02.5
E	11 20.6
E(SKS)	17 34.5
EPKKP	23 59.4
ESS	24 42.5
EP'P'	32 10.3
EL	39 08.5
BUT E(P)	03 07 11.0
EPP	11 07.9
BOZ EP	03 07 16.0
EPP	11 04.0
E(SKS)	18 00.0
TUC EP	03 07 20.4
EPP	11 14.0
EPKKP	23 59.0
EP'P'	32 08.0
FGU EP	03 07 23.5
ALQ EP	03 07 37.0
EPKKP	23 45.0
EP'P'	32 06.0
RCD E(P)	03 07 47.0
CSC E(PP)	03 14 39.0
SEP 05	
EUR EP	03 18 33.1

Date and Station	Phase (GCT)
	h m s
SEP 05	
ALQ EP	03 43 24.0
E	43 28.0
SEP 05	
COL E(P)	04 03 17.4
SEP 05	
EUR EP	04 06 48.3
SEP 5	
H-04 09 51.6	
06.0S 153.8E	
h ABOUT 081KM	
COL EP	04 22 06.7
EUR IP	04 23 02.3
SEP 5	
H-04 35 25.1	
1.1N 077.5W	
h ABOUT 033KM	
BOZ EP	04 44 43.0
SEP 05	
BOZ EP	05 19 17.0
SEP 05	
EUR IP	06 35 15.5
SEP 5	
H-06 36 58.6	
26.9N 101.5E	
h ABOUT 032KM	
COL EP	06 48 34.2
SEP 05	
COL E(P)	07 01 18.0
SEP 5	
H-07 27 21.0	
05.9S 153.7E	
h ABOUT 106KM	
COL EP	07 39 34.2
EUR EP	07 40 26.2
SEP 05	
COL EP	07 59 49.0
SEP 05	
HHM EP	08 02 08.0
SEP 05	
TUC EP	08 20 36.0
SEP 05	
COL EP	09 43 50.2
SEP 05	
COL EP	11 44 30.6
SEP 5	
H-12 27 22.2	
.6N 025.9W	
h ABOUT 033KM	
RCD E(P)	12 39 35.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	12 39 44.0
E	40 11.0
TUC EP	12 40 02.4
BOZ EP	12 40 06.0
BUT E(P)	12 40 09.0
HHM E(P)	12 40 17.0
EUR EP	12 40 18.0
BCN E(P)	12 40 20.0
SEP 05	
HON E	13 06 30.0
EL	27 26.0
SEP 5	
H-15 05 10.9	
19.2S 069.3W	
h ABOUT 103KM	
ALQ EP	15 15 39.0
EpP	16 04.0
TUC E(P)	15 15 40.2
BCN EP	15 16 13.3
EpP	17 40.3
EUR EP	15 16 31.6
BOZ EP D	15 16 43.0
IpP	17 10.0
HHM E(P)	15 17 01.0
SEP 05	
COL EP	15 38 34.0
I	38 36.3
E(S)	39 04.7
SEP 05	
COL EP	16 11 38.4
SEP 05	
COL IP	16 43 19.5
SEP 05	
BOZ EP	16 46 30.5
I	47 22.0
HHM EP	16 46 51.1
SEP 05	
COL EP	18 55 29.0
SEP 05	
FGU IP	20 06 13.3
SEP 05	
COL E(P)	21 21 15.0
SEP 05	
BOZ EP	21 22 12.8
EUR E(P)	21 22 44.1
TUC E(P)	21 23 42.2
SEP 05	
COL EP	21 27 45.7

Date and Station	Phase (GCT)
	h m s
SEP 05	
EUR EP	22 30 44.1
SEP 06	
COL IP	00 14 33.3
SEP 06	
EUR IP	02 06 54.6
EL	07 17.2
BCN E(P)	02 07 46.0
EL	08 41.5
SEP 06	
COL E(P)	02 39 51.2
SEP 06	
BOZ EP	02 42 07.0
E	43 04.0
SEP 6	
H-03 27 47.9	
17.8S 168.2E	
h ABOUT 033KM	
COL E(P)	03 40 38.0
EUR EP	03 40 49.9
E(PP)	44 33.8
TUC E(P)	03 40 57.4
HON E(S)	03 44 08.0
EL	51 09.0
SEP 6	
H-03 38 48.8	
46.7S 013.5W	
h ABOUT 033KM	
COL EP'	03 58 33.0
SEP 06	
RCD EP	04 04 40.0
SEP 6	
H-04 09 07.4	
23.4N 108.5W	
h ABOUT 033KM	
ALQ EP	04 11 53.0
EUR EP	04 13 15.3
EL	17 59.9
BOZ EP	04 14 08.8
SEP 06	
BCN E(P)	04 15 58.4
SEP 06	
SIT E(P)	05 25 53.0
COL E(P)	05 27 05.8
SEP 6	
H-07 50 12.6	
48.1S 104.1E	
h ABOUT 033KM	
COL E(P')	08 09 42.1
TUC EP'	08 09 58.8

Date and Station	Phase	(GCT)
		h m s
EUR	IP'	08 10 00.8
BCN	EP'	08 10 07.8
	IP'	10 15.0
ALQ	EP'	08 10 11.0
	E	10 17.0
BOZ	EP'	08 10 12.0
SEP 06		
COL	EP	08 08 27.0
SEP 06		
COL	EP	08 52 38.0
SEP 06		
BOZ	EP	08 57 07.0
SEP 06		
EUR	EP	09 20 06.7
	E(S)	20 44.0
SEP 6		
H-09 21 22.4		
20.3S 178.9W		
h ABOUT 621KM		
COL	IP	09 32 07.7
	E(pP)	34 24.9
EUR	EP	09 32 47.8
TUC	EP	09 32 49.3
ALQ	EP	09 33 09.0
BOZ	IP	09 33 16.0
SEP 06		
COL	EP	09 41 03.2
SEP 6		
H-09 52 49.7		
15.9N 061.7W		
h ABOUT 143KM		
SJP	IP C	09 54 02.0
ALQ	EP	10 00 47.0
	EpP	01 16.0
TUC	EP	10 01 10.8
BOZ	EP	10 01 39.0
FUR	EP	10 01 51.0
SEP 6		
H-10 29 51.4		
53.9N 163.9W		
h ABOUT 033KM		
COL	EP	10 33 03.0
EUR	EP	10 36 43.5
BCN	E(P)	10 37 23.0
SEP 06		
SJP	E(P)	10 52 40.4
	I	52 47.0

Date and Station	Phase	(GCT)
		h m s
SEP 6		
H-11 15 27.9		
06.0S 153.7E		
h ABOUT 090KM		
COL	IP	11 27 41.6
	IpP	28 10.9
EUR	IP	11 28 35.6
BOZ	E(P)	11 28 51.0
SEP 06		
COL	E(P)	11 26 21.6
SEP 06		
TUC	EP	12 00 25.0
	E	02 40.2
SEP 06		
ALQ	E(P)	12 03 41.0
SEP 06		
BCN	E(P)	12 05 23.0
SEP 06		
COL	EP	14 45 41.0
SEP 06		
BUT	EP	15 48 56.7
SEP 6		
H-15 51 23.5		
10.6S 107.5W		
h ABOUT 033KM		
ALQ	E(P)	15 59 40.0
BCN	EP	15 59 55.0
BUT	E(P)	16 01 02.0
BOZ	E(P)	16 01 05.0
SEP 6		
H-15 58 15.4		
58.7N 151.4W		
h ABOUT 033KM		
COL	IP	15 59 49.6
	IS	16 01 04.0
HHM	EP	16 03 29.4
BUT	EP	16 03 51.3
BOZ	EP	16 03 57.5
ALQ	E(P)	16 05 31.0
TUC	E(P)	16 05 31.2
SEP 6		
H-16 13 23.2		
21.5S 066.8W		
h ABOUT 233KM		
SJP	EP	16 20 30.6
	E	20 51.5
ALQ	IP	16 23 58.0
	E	24 09.0
BCN	EP	16 24 30.3

Date and Station	Phase	(GCT)
		h m s
BOZ	EP	16 24 58.2
BUT	EP	16 25 03.7
	E(pP)	26 02.7
HHM	EP	16 25 15.9
SEP 6		
H-17 16 54.6		
59.1N 147.4W		
h ABOUT 033KM		
COL	IP	17 18 19.3
SIT	E(P)	17 18 30.7
HHM	EP	17 21 51.4
BUT	EP	17 22 13.7
BOZ	IP	17 22 23.0
EUR	EP	17 22 44.2
TUC	EP	17 23 57.6
SEP 6		
H-17 36 44.3		
63.1N 147.7W		
h ABOUT 033KM		
COL	IP	17 37 15.0
SIT	E(P)	17 38 53.0
HHM	IP C	17 41 55.4
BUT	EP	17 42 17.9
BOZ	EP	17 42 24.8
	I	42 37.0
EUR	IP	17 42 56.4
	EPCP	45 51.0
RCD	E(P)	17 43 08.0
ALQ	EP	17 44 02.0
	E	44 32.0
TUC	E(P)	17 44 05.6
SEP 6		
H-18 41 01.8		
10.0N 140.2E		
h ABOUT 033KM		
GUA	IP	18 42 27.5
	ES	43 30.0
KIP	EP	18 51 10.0
	ES	59 26.0
	EL	19 05 45.0
HON	E(P)	18 51 20.0
	ES	59 29.0
	EL	19 05 40.0
COL	EP	18 52 31.0
HHM	EP	18 54 14.5
BUT	EP	18 54 21.6

Date and Station	Phase	(GCT)
		h m s
BOZ	EP	18 54 25.0
	EPP	58 16.0
EUR	E(P)	18 54 25.5
	EPP	58 16.8
SEP 06		
SJP	IP	18 46 03.0
	IS	46 04.0
SEP 06		
H-18 51 18.6		
34.1N 114.2W		
h ABOUT 015KM		
BCN	E(P)	18 51 46.4
	IS	52 17.5
	IL	52 28.5
TUC	E(P)	18 52 01.7
EUR	EP	18 52 43.6
SEP 6		
H-18 55 47.4		
38.3N 026.6W		
h ABOUT 033KM		
TUC	E(P)	19 06 37.5
	E	07 11.0
SEP 06		
H-18 57 20.4		
07.1N 093.7E		
h ABOUT 046KM		
EUR	EP'	19 15 20.9
BOZ	EP'	19 16 13.5
SJP	EP'	19 17 02.8
SEP 06		
TUC	E(P)	18 59 02.0
SEP 06		
H-19 03 35.3		
39.2N 111.5W		
h ABOUT 015KM		
SLC	EP	19 04 02.6
	IS	04 28.5
FGU	EP	19 04 15.5
EUR	EP	19 04 30.6
	I	04 37.2
BCN	E(P)	19 04 51.0
ALQ	EP	19 05 02.0
	E	05 24.0
BOZ	E(P)	19 05 25.0
SEP 06		
TUC	EP	19 20 01.0
SEP 06		
COL	E(P)	19 39 50.3

Date and Station	Phase (GCT)
	h m s
SEP 6	
H-20 34 22.2	
4.7S 144.8E	
h ABOUT 076KM	
KIP IP	20 44 37.8
COL IP	20 46 49.4
I	47 15.4
EUR E(P)	20 48 02.7
BOZ EP	20 48 14.0
SJP EP'	20 53 58.0
E	54 22.5
SEP 06	
COL EP	20 52 59.1
SEP 06	
BOZ EP	20 59 51.0
SEP 6	
H-21 05 47.8	
6.0S 107.1W	
h ABOUT 033KM	
TUC E(P)	21 13 07.0
ALQ EP	21 13 29.0
E	13 38.0
BCN EP	21 13 41.2
SLC E(P)	21 14 01.3
E	14 26.7
EUR IP	21 14 10.4
FGU EP	21 14 16.0
CSC EP	21 14 17.0
RCD EP	21 14 39.0
HHM E(P)	21 15 12.0
COL EP	21 17 40.0
KIP ES	21 23 30.0
EL	29 23.0
EL	31 32.0
HON ES	21 23 39.0
EL	29 25.0
EL	31 38.0
SEP 6	
H-21 18 02.1	
6.1S 106.5W	
h ABOUT 033KM	
EUR EP	21 26 24.9
SEP 06	
EUR IP	22 19 36.9
SEP 06	
EUR IP	22 22 33.7
SEP 06	
FGU EP	23 18 26.5
ES	18 57.0

Date and Station	Phase (GCT)
	h m s
EUR EP	23 18 46.0
SEP 07	
SIT E(P)	02 38 32.8
SEP 07	
COL EP	02 52 31.0
SEP 7	
H-03 54 05.1	
48.6N 153.9E	
h ABOUT 100KM	
COL IP	04 00 43.3
BUT E(P)	04 03 59.0
BOZ EP	04 04 05.0
I	04 13.0
EUR IP	04 04 15.4
BCN EP	04 04 35.0
E▸P	04 58.0
TUC E(P)	04 05 06.3
ALQ EP	04 05 11.0
E▸P	05 35.0
SEP 07	
SJP E(P)	05 28 44.2
EL	29 43.0
SEP 07	
SIT E(P)	06 07 44.5
SEP 7	
H-07 07 55.4	
57.7N 151.5W	
h ABOUT 033KM	
COL EP	07 09 43.0
E	09 56.3
SEP 7	
H-07 42 02.3	
58.3N 152.0W	
h ABOUT 033KM	
COL IP	07 43 43.2
E(S)	44 04.7
IL	45 46.0
SIT E(P)	07 44 06.2
HHM EP	07 47 18.7
BUT E(P)	07 47 40.0
BOZ E(P)	07 47 45.0
EUR EP	07 48 07.2
RCD EP	07 48 35.0
TUC E(P)	07 49 19.8
E	49 23.2
SEP 07	
COL EP	09 27 57.1
SEP 07	
ALQ EP	11 26 35.0

Date and Station	Phase (GCT)
	h m s
SEP 7	
H-11 27 14.7	
15.7N 053.3E	
h ABOUT 033KM	
BOZ EP'	11 45 47.0
EUR EP'	11 46 14.6
ALQ EP'	11 46 25.0
BCN EP'	11 46 28.5
TUC EP'	11 46 34.0
SEP 7	
H-11 29 17.6	
04.1S 151.7E	
h ABOUT 246KM	
COL E(P)	11 41 08.8
SEP 07	
RCD EP	11 43 23.0
SEP 07	
HON E	12 06 54.0
EL	22 15.0
SEP 07	
ALQ E(P)	13 43 32.0
E(S)	44 26.0
SEP 07	
EUR IP	13 48 30.6
EL	48 53.6
SEP 07	
EUR IP	14 03 16.4
EL	03 32.6
SEP 07	
COL EP	14 07 03.7
SEP 7	
H-15 13 14.1	
10.1S 161.1E	
h ABOUT 038KM	
COL IP	15 25 41.0
E	25 54.5
EUR IP	15 26 16.8
SEP 07	
TUC EP	15 24 43.0
SEP 7	
H-15 52 11.5	
37.1N 071.8E	
h ABOUT 168KM	
COL EP	16 03 27.7
SEP 07	
COL EP	16 15 54.0
SEP 07	
EUR EP	17 40 17.7
EL	40 55.6
SEP 07	
COL EP	18 34 42.8

Date and Station	Phase (GCT)
	h m s
SEP 07	
COL IP	18 55 32.9
SEP 07	
GUA E(P)	19 17 53.8
SEP 07	
BOZ E(P)	20 34 39.0
BUT E(P)	20 34 54.0
EL	35 18.4
SEP 07	
BUT E(P)	20 36 16.0
EL	36 40.4
SEP 07	
BOZ E(P)	21 12 06.5
SEP 07	
COL IP	21 30 02.3
SEP 07	
TUC E(P)	22 56 19.3
SEP 07	
EUR IP	23 08 04.6
EL	08 17.0
SEP 08	
H-00 27 55.5	
44.3N 114.8W	
h ABOUT 033KM	
BUT EP	00 28 29.3
I	28 33.3
E(S)	28 58.0
BZM EP	00 28 45.5
E(S)	29 14.0
HHM E(P)	00 28 54.0
EL	29 00.0
EUR IP	00 29 09.8
EL	30 17.7
SEP 08	
EUR EP	00 47 14.7
SEP 08	
GUA EP	01 22 28.4
SEP 08	
COL EP	02 08 35.3
SEP 8	
H-02 43 17.1	
60.1N 146.9W	
h ABOUT 034KM	
COL EP	02 44 30.0
SEP 08	
COL EP	02 55 43.3
E(S)	56 35.5
SEP 08	
BOZ E(P)	03 13 22.0
SEP 08	
COL EP	03 36 39.5

Date and Station	Phase	(GCT) h m s
SEP 08		
EUR	EP	04 18 15.1
SEP 08		
GUA	IP	04 27 31.0
	ES	27 50.0
SEP 08		
BOZ	EP	04 33 30.0
SEP 8		
H-05 55 18.7		
20.5S 176.2W		
h ABOUT 033KM		
EUR	E(P)	06 07 37.2
COL	EP	06 08 06.1
SEP 08		
COL	EP	06 31 39.0
SEP 8		
H-07 54 57.9		
5.8N 126.1E		
h ABOUT 177KM		
GUA	EP	07 59 16.0
COL	IP	08 07 04.4
BOZ	EP'	08 13 07.0
	E	13 21.0
EUR	EP'	08 13 11.2
ALQ	EP'	08 13 23.0
	E(SKP)	16 49.0
SEP 08		
COL	IP	08 21 43.2
SEP 08		
BUT	EP	08 57 32.6
SEP 08		
ALQ	EP	09 01 43.0
BCN	E(P)	09 02 17.0
	E	02 28.4
SEP 8		
H-09 32 26.8		
45.6N 149.9E		
h ABOUT 141KM		
COL	IP	09 39 36.1
	E>P	40 09.8
BOZ	IP	09 42 48.5
EUR	IP	09 42 58.2
BCN	EP	09 43 17.0
RCD	E(P)	09 43 22.0
SEP 8		
H-11 15 35.1		
17.4S 173.5W		
h ABOUT 033KM		
TUC	EP	11 27 30.4
EUR	IP	11 27 32.0
BUT	E(P)	11 28 02.0
BOZ	IP	11 28 04.0
COL	IP	11 28 06.0
SEP 08		
EUR	IP	12 33 32.9
TUC	EP	12 33 34.6
ALQ	E(P)	12 33 56.0
BOZ	E(P)	12 34 01.0
SEP 08		
COL	IP	12 33 52.0
SEP 08		
GUA	EP	13 31 09.0
SEP 8		
H-13 40 03.5		
29.6N 142.0E		
h ABOUT 077KM		
GUA	E(P)	13 43 38.0
HON	ES	13 57 06.0
	EL	14 04 08.0
COL	EP	13 49 32.0
HHM	EP	13 51 48.9
BUT	EP	13 51 59.8
EUR	IP	13 52 07.1
SLC	E(P)	13 52 15.8
	E	52 18.9
RCD	EP	13 52 34.0
ALQ	E(P)	13 52 42.0
TUC	EP.	13 52 44.8
SEP 8		
H-13 41 44.1		
24.1S 177.6W		
h ABOUT 165KM		
COL	EP	13 54 33.0
SEP 08		
BOZ	EP	13 48 31.0
SEP 8		
H-14 09 19.2		
23.8S 177.5W		
h ABOUT 213KM		
TUC	EP	14 21 30.4
EUR	IP	14 21 33.4
ALQ	E(P)	14 21 53.0
COL	EP	14 22 00.0
BUT	EP	14 22 00.8
	EPP	25 24.8
BOZ	EP	14 22 02.0
SEP 8		
H-14 12 39.8		
23.9S 177.2W		
h ABOUT 175KM		
TUC	EP	14 24 55.0
EUR	IP	14 24 57.0
ALQ	E(P)	14 25 17.0
COL	IP	14 25 25.5
BOZ	IP	14 25 26.0
SEP 08		
TUC	E(P)	14 43 41.0
ALQ	E(P)	14 44 03.0
BOZ	IP	14 44 12.2
	I	44 18.5
SEP 08		
TUC	E(P)	15 41 57.0
BOZ	EP	15 42 28.0
	E	42 33.0
SEP 08		
SEP 08		
BOZ	EP	15 52 03.8
	I	52 05.1
SEP 08		
COL	EP	15 57 13.6
SEP 8		
H-16 52 33.2		
29.1N 142.3E		
h ABOUT 033KM		
COL	EP	17 02 08.2
BOZ	E(P)	17 04 39.0
EUR	IP	17 04 42.5
SEP 8		
H-17 05 23.4		
20.4S 178.3W		
h ABOUT 539KM		
GUA	EP	17 13 25.9
EUR	IP	17 16 54.8
TUC	EP	17 16 55.9
ALQ	EP	17 17 16.0
	E	17 29.0
COL	IP	17 17 16.0
	E>P	19 18.2
BOZ	EP	17 17 22.9
SEP 08		
COL	EP	19 41 16.0
SEP 08		
COL	IP	19 54 45.4
	E(S)	54 50.8
SEP 08		
GUA	IP	19 56 31.9
SEP 08		
BHP	IP	19 56 48.0
SEP 08		
ALQ	EP	20 03 33.0
SEP 8		
H-20 22 54.2		
06.9N 126.4E		
h ABOUT 033KM		
COL	EP	20 35 12.0
SEP 08		
TUC	EP	20 44 15.5
SEP 08		
ALQ	E(P)	20 52 25.0
	E(S)	53 06.0
SEP 08		
COL	IP	22 14 30.0
SEP 08		
RCD	E(P)	22 26 25.0
SEP 08		
EUR	EP	22 31 28.7
SEP 08		
TUC	EP	22 54 33.0
SEP 08		
TUC	EP	22 56 05.3
SEP 08		
TUC	EP	22 58 28.4
SEP 08		
COL	EP	23 06 21.8
SEP 08		
COL	IP	23 25 51.1
SEP 09		
COL	EP	00 08 47.0
SEP 09		
EUR	IP	00 31 22.2
SEP 09		
BHP	IP	01 20 32.0
	IS	21 24.0
SEP 09		
COL	EP	02 08 47.0
SEP 09		
BOZ	E(P)	02 29 07.0
SEP 9		
H-02 41 46.1		
58.9N 154.5W		
h ABOUT 033KM		
COL	IP	02 43 25.5

Date and Station	Phase (GCT)
	h m s
EUR EP	02 48 03.3
SEP 9	
H-03 36 43.4	
58.9N 152.8W	
h ABOUT 033KM	
COL IP	03 38 17.2
BOZ EP	03 42 34.0
EUR EP	03 42 53.9
SEP 09	
BOZ EP	05 07 47.0
ALQ EP	05 08 02.5
EUR IP	05 08 29.6
TUC EP	05 08 34.2
SEP 9	
H-05 30 44.7	
24.1S 177.1W	
h ABOUT 033KM	
TUC E(P)	05 43 15.2
EUR EP	05 43 20.8
ALQ E(P)	05 43 39.0
COL EP	05 43 47.0
BOZ E(P)	05 43 47.0
SEP 9	
H-06 06 18.4	
26.2N 143.7E	
h ABOUT 033KM	
COL EP	06 16 05.0
HHM EP	06 18 16.9
BUT E(P)	06 18 26.0
BOZ EP	06 18 32.0
EUR IP	06 18 32.3
BCN E(P)	06 18 52.2
RCD E(P)	06 19 08.0
TUC E(P)	06 19 15.0
ALQ EP	06 19 18.0
SEP 09	
GUA EP	06 57 43.6
SEP 09	
COL EP	07 22 11.4
SEP 09	
COL E(P)	08 17 50.5
SEP 09	
RCD E(P)	08 39 54.0

Date and Station	Phase (GCT)
	h m s
SEP 9	
H-09 39 48.1	
37.5N 003.7W	
h ABOUT 015KM	
COL EP	09 51 26.0
EUR E(P)	09 52 11.4
TUC EP	09 52 14.2
SEP 09	
EUR IP	10 48 18.3
SEP 09	
BOZ E(P)	10 56 16.0
SEP 09	
TUC EP	12 07 33.0
E	08 20.7
E(S)	08 30.8
SEP 09	
BCN EP	12 09 27.0
SEP 09	
GUA IP	14 17 30.9
IS	17 43.0
SEP 09	
BOZ EP	15 10 03.0
I	10 30.0
EUR EP	15 10 38.4
SEP 09	
BOZ E(P)	16 24 47.0
SEP 09	
GUA EP	16 39 56.5
ES	40 10.0
SEP 09	
FGU E(P)	17 04 04.5
E(S)	04 29.5
BOZ EP	17 04 35.2
SEP 9	
H-22 19 40.5	
34.5N 045.8E	
h ABOUT 068KM	
COL IP	22 31 45.3
EpP	31 59.0
SEP 09	
TUC EP	23 03 43.7
SEP 09	
H-23 48 12.6	
46.5N 152.7E	
h ABOUT 054KM	
COL IP	23 55 14.7
IpP	55 28.1
BOZ IP	23 58 30.0
EUR IP	23 58 40.3
EpP	58 55.6
TUC EP	23 59 28.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	23 59 35.0
SEP 10	
BUT E(P)	01 47 56.0
IL	47 10.8
SEP 10	
COL IP	02 16 26.2
SEP 10	
H-02 39 26.5	
07.4N 073.0W	
h ABOUT 140KM	
TUC EP	02 47 13.0
BOZ EP	02 48 12.8
E(pP)	48 43.0
SEP 10	
EUR EP	02 40 32.7
E(S)	40 58.7
SEP 10	
COL IP	03 27 35.1
SEP 10	
EUR EP	05 14 36.0
SEP 10	
TUC E(P)	05 48 51.5
E	49 05.8
SEP 10	
BCN E(P)	05 50 35.2
SEP 10	
H-06 19 50.7	
41.9N 107.8W	
h ABOUT 033KM	
SLC E(P)	06 20 40.7
E	20 49.7
EUR IP	06 21 29.2
SEP 10	
ALQ E(P)	06 21 48.0
SEP 10	
BOZ IP	07 15 03.2
I	15 22.0
SEP 10	
COL IP	07 16 31.0
SEP 10	
BOZ EP	08 21 01.5
EL	22 19.0
SEP 10	
H-09 15 47.0	
16.4N 096.0W	
h ABOUT 059KM	
TUC IP	09 20 25.0
EL	26 45.5
ALQ IP	09 20 25.0
EL	26 20.0
BOZ I(P)	09 21 09.5

Date and Station	Phase (GCT)
	h m s
BCN EP	09 21 14.5
EL	29 34.0
EUR IP	09 21 42.1
COL IP	09 25 45.0
SEP 10	
BOZ EP	10 00 38.0
SEP 10	
TUC EP	10 19 25.0
SEP 10	
COL E(P)	10 43 33.0
SEP 10	
EUR EP	11 05 08.1
E(S)	06 03.8
SEP 10	
COL IP	12 25 29.5
SEP 10	
COL E(P)	12 45 30.5
SEP 10	
COL IP	13 33 11.6
SEP 10	
H-14 18 14.6	
34.5N 135.6E	
h ABOUT 388KM	
COL EP	14 27 00.0
EUR IP	14 29 49.3
SEP 10	
EUR EP	14 58 38.2
SEP 10	
TUC E(P)	15 40 06.0
SEP 10	
BOZ EP	17 32 39.9
SEP 10	
H-17 37 08.7	
33.0S 069.4W	
h ABOUT 080KM	
ALQ IP	17 48 49.0
EPCP	48 55.0
BCN IP	17 49 14.6
(pP)	49 37.0
(sP)	49 49.2
EUR IP	17 49 31.9
BOZ IP D	17 49 45.2
SEP 10	
COL EP	17 51 05.0
SEP 10	
BOZ IP	18 59 26.0
I	59 57.5
SLC EP	19 00 00.0
EUR EP	19 00 21.2

Date and Station	Phase (GCT) h m s
SEP 10	
GUA EP	20 49 12.1
SEP 10	
H-21 36 32.3	
4.8S 081.3W	
h ABOUT 045KM	
ALQ IP	21 44 55.0
E(pP)	45 05.0
EUR IP	21 45 57.9
BOZ IP	21 46 15.2
SEP 10	
EUR IP	22 23 49.8
SEP 10	
HHM EP	23 58 09.2
SEP 11	
H-00 26 29.9	
60.3N 146.6W	
h ABOUT 038KM	
COL IP	00 27 40.0
IS	28 32.0
BOZ EP	00 31 54.0
EUR IP	00 32 21.3
SEP 11	
EUR EP	03 29 06.1
SEP 11	
SJP EP	04 16 27.5
E	17 19.0
SEP 11	
H-04 23 56.0	
23.9S 066.6W	
h ABOUT 195KM	
SJP EP	04 31 27.2
E	32 18.5
EPCP	33 20.3
ALQ IP D	04 34 47.0
E	34 57.0
BCN IP	04 35 18.2
I(pP)	36 13.0
SLC IP	04 35 28.8
EUR IP	04 35 34.7
IpP	36 25.5
EPP	38 28.7
BOZ IP D	04 35 46.9
BUT IP	04 35 52.2
IpP	36 45.5
COL EP	04 37 54.0
EP'	41 58.9
GUA IP'	04 43 20.5
I	44 17.2
SEP 11	
COL EP	04 48 27.0
SEP 11	
COL EP	05 03 39.0
SEP 11	
BCN E(P)	05 57 46.8
EL	58 31.0
SEP 11	
BOZ EP	06 32 28.0
SEP 11	
COL IP	09 27 18.7
SEP 11	
COL E(P)	09 47 07.1
SEP 11	
H-11 04 39.0	
26.4S 177.8W	
h ABOUT 217KM	
EUR EP	11 17 04.2
ALQ EP	11 17 21.0
EpP	18 18.0
SEP 11	
EUR EP	13 01 51.6
E(S)	02 37.1
SEP 11	
COL EP	13 57 15.2
SEP 11	
GUA IP	14 03 22.5
IS	03 39.0
SEP 11	
COL IP	14 21 25.8
SEP 11	
EUR EP	15 04 56.7
SEP 11	
EUR EP	15 29 18.9
E(S)	30 13.9
SEP 11	
BCN IP C	15 52 10.3
IS	52 11.9
SEP 11	
GUA EP	16 10 52.8
SEP 11	
COL IP	16 48 46.7
SEP 11	
EUR EP	18 40 52.2
SEP 11	
BOZ EP	19 03 56.0
SEP 11	
H-19 47 53.3	
16.5N 093.6W	
h ABOUT 130KM	
ALQ IP C	19 52 35.0
E	52 39.0
BCN EP	19 53 25.7
EUR EP	19 53 52.9
BOZ EP	19 54 15.0
HHM EP	19 54 42.9
SEP 11	
COL IP	19 52 54.2
SEP 11	
BOZ IP	22 11 58.0
IL	12 12.0
HHM E(P)	22 13 01.0
SEP 11	
COL E(P)	22 25 35.0
SEP 11	
EUR IP	22 25 35.7
SEP 11	
COL EP	22 35 17.0
SEP 11	
COL EP	22 51 03.0
SEP 11	
COL EP	23 18 22.0
SEP 12	
BCN E(P)	00 01 05.2
EUR EP	00 01 38.6
E(S)	02 59.6
SEP 12	
EUR EP	01 47 09.1
I	47 18.8
E(S)	48 12.7
SEP 12	
BOZ IP	02 11 34.9
IL	11 47.0
BUT EP	02 11 49.8
IL	12 11.8
HHM E(P)	02 12 24.0
E	12 35.1
SEP 12	
SJP EP	04 31 27.5
SEP 12	
COL E(P)	04 36 03.5
SEP 12	
SJP EP	04 32 19.0
E	33 20.5
SEP 12	
COL EP	04 40 56.4
SEP 12	
H-05 58 08.0	
40.0N 139.9E	
h ABOUT 033KM	
COL IP	06 06 39.0
EUR E(P)	06 09 47.5
SEP 12	
BOZ EP	06 29 22.0
BUT E(P)	06 29 36.0
EL	29 55.7
SEP 12	
COL EP	06 49 05.0
SEP 12	
GUA EP	07 51 22.9
E(S)	51 39.5
SEP 12	
H-08 45 05.5	
44.2N 114.6W	
h ABOUT 033KM	
BUT EP	08 45 42.7
ES	46 07.7
BOZ EP	08 45 44.0
IS	46 20.0
HHM E(P)	08 46 10.0
EL	47 11.4
EUR EP	08 46 19.5
EL	47 27.5
SEP 12	
BOZ EP	10 28 52.0
IL	29 05.0
SEP 12	
H-10 48 19.2	
24.7S 170.5E	
h ABOUT 033KM	
COL EP	11 01 39.6
SEP 12	
H-12 43 19.0	
04.4S 144.0E	
h ABOUT 120KM	
GUA IP	12 47 21.2
IS	50 40.0
HON IP C	12 53 30.9
ES	13 01 55.0
ESCS	02 42.0
E	03 21.0
E	04 17.0
EL	08 43.0
KIP EP	12 53 31.4
ES	13 01 56.0
ESCS	02 40.0
E	03 22.0
E	04 15.0
EL	08 42.0
COL IP C	12 55 40.1
EpP	56 08.8
UKI E(PP)	12 56 01.5
EUR IP C	12 56 55.0
IpP	57 26.9
IPP	13 01 01.2
ESKS	07 23.7
IPKKP	13 11.5
EPKKP	13 37.5

Date and Station	Phase (GCT)
	h m s
HHM EP	12 56 58.0
EpP	57 26.0
E(PP)	13 01 10.0
EPKKP	13 30.0
BCN EP	12 57 00.0
EpP	57 30.8
EPP	13 01 11.0
BOZ IP	12 57 06.5
IpP	57 36.0
ESKS	13 07 40.0
EPKKP	13 22.0
ALQ EP	12 57 31.5
E(P')	13 01 36.0
ESKS	08 04.0
EPKKP	13 00.0
EPKKP	13 27.0
CSC EP'	13 02 15.0
ESKP	05 22.0
SJP IP'	13 02 48.3
IpP'	03 20.0
SEP 12	
COL EP	13 14 16.0
SEP 12	
COL E(P)	13 20 39.3
SEP 12	
H-14 05 49.3	
11.9N 143.6E	
h ABOUT 033KM	
GUA EP	14 06 22.8
E(S)	06 46.0
EUR EP	14 18 50.3
COL EP	14 16 58.5
SEP 12	
H-15 19 22.3	
17.4S 179.9W	
h ABOUT 561KM	
HON IP	15 26 44.3
E(S)	32 22.0
ESCS	35 42.0
E	38 54.0
KIP IP	15 26 44.8
ES	32 44.0
GUA IP	15 27 02.5
I	27 13.0
I	27 25.5
IPCP	28 25.0
UKI E(P)	15 30 21.0
BCN EP	15 30 41.5
E	32 53.4
EUR IP	15 30 45.8
EPP	34 05.6
E(SKS)	40 15.1
EPKKP	49 10.4

Date and Station	Phase (GCT)
	h m s
COL IP	15 31 00.9
E	33 11.6
ESKS	40 28.0
SLC IP	15 31 04.1
ALQ IP C	15 31 09.0
E(PCP)	31 14.0
E	33 20.0
BUT EP	15 31 10.6
EPP	34 53.6
HHM EP	15 31 11.0
ESKS	40 44.8
EPKKP	48 54.3
FGU EP	15 31 11.5
BOZ EP	15 31 13.0
IPP	34 49.0
SEP 12	
BOZ EP	15 44 00.0
IL	44 12.0
SEP 12	
SJP E(P)	17 02 10.0
EL	03 11.0
SEP 12	
H-17 08 38.1	
18.5S 067.0W	
h ABOUT 237KM	
ALQ EP	17 18 55.5
EUR EP	17 19 48.7
SEP 12	
SEP 12	
COL E(P)	18 14 45.3
H-18 25 30.7	
09.1N 137.9E	
h ABOUT 033KM	
GUA EP	18 27 30.0
ES	28 56.0
SEP 12	
COL IP	18 54 11.3
SEP 12	
H-19 05 47.4	
11.2N 086.9W	
h ABOUT 033KM	
ALQ EP	19 11 52.0
BCN EP	19 12 43.0
E	13 02.5
FGU IP	19 12 45.0
EUR EP	19 13 06.6
E	13 28.0
BOZ IP	19 13 21.5
I	13 44.5

Date and Station	Phase (GCT)
	h m s
SEP 12	
H-20 25 53.5	
45.4N 149.7E	
h ABOUT 053KM	
COL IP	20 33 14.5
IpP	33 27.9
BOZ IP	20 36 26.6
I	36 45.0
EUR IP	20 36 36.3
IpP	36 51.2
BCN EP	20 36 55.4
EpP	37 10.0
ALQ EP	20 37 29.0
SEP 12	
ALQ E(P)	21 08 55.0
SEP 12	
EUR EP	21 15 03.1
SEP 12	
H-21 19 38.7	
12.5N 089.1W	
h ABOUT 055KM	
ALQ EP	21 25 21.0
BCN EP	21 26 12.0
FGU E(P)	21 26 16.0
EUR EP	21 26 37.0
BOZ EP	21 26 53.5
SEP 12	
HHM E(P)	21 29 19.0
SEP 12	
EUR EP	21 50 37.7
SEP 12	
H-22 07 03.2	
49.1S 164.2E	
h ABOUT 033KM	
GUA EP	22 17 39.0
HON EP C	22 18 58.0
ES	28 58.0
E(SS)	34 02.0
EL	39 38.0
KIP EP	22 18 59.0
ES	29 03.0
E(SS)	34 03.0
ESSS	37 26.0
EL	39 22.0
UKI EP'	22 25 18.5
EPP	25 52.0
BCN E(P)	22 21 37.5
EP'	25 36.2
E(PP)	26 09.2
EPKKP	36 44.0
E	40 44.0

Date and Station	Phase (GCT)
	h m s
EUR IP'	22 25 39.5
IPP	26 29.5
IPKKP	36 32.7
E	45 38.5
BHP EPKKP	22 36 32.0
ALQ EP'	22 25 43.0
EPP	26 41.0
SLC EP'	22 25 46.3
EPKKP	36 20.5
COL EP'	22 25 49.0
E(PP)	27 10.0
BOZ EP'	22 25 49.0
IPP	27 11.0
FGU EP'	22 25 49.3
HHM EP'	22 25 49.7
EPP	27 10.5
EPKKP	36 05.3
ESKKP	39 40.6
SJP EP'	22 26 09.5
E(PP)	28 17.0
CSC EP'	22 26 12.0
E(PP)	28 33.0
SEP 13	
GUA EP	00 12 34.3
SEP 13	
H-00 21 06.7	
49.3S 163.7E	
h ABOUT 033KM	
EUR EP'	00 39 40.5
EPP	40 29.0
ALQ EP'	00 39 45.0
COL EP'	00 39 51.0
SEP 13	
GUA IP	01 14 25.9
IS	14 33.5
SEP 13	
COL EP	02 42 43.2
IS	42 59.9
H-03 26 35.9	
28.1S 066.5W	
h ABOUT 054KM	
EUR EP	03 38 48.8
SEP 13	
COL EP	05 03 39.0
SEP 13	
COL E(P)	05 15 09.0
SEP 13	
H-07 27 28.8	
12.4N 089.2W	
h ABOUT 051KM	
EUR E(P)	07 34 28.4

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	07 34 44.5
SEP 13	
EUR EP	07 46 36.1
SEP 13	
H-08 46 46.3	
15.6S 172.7W	
h ABOUT 033KM	
COL EP	08 59 06.4
SEP 13	
H-09 29 08.3	
53.9N 168.7E	
h ABOUT 033KM	
COL IP	09 34 22.1
EUR EP	09 38 23.8
SEP 13	
EUR IP	09 57 28.5
ALQ E(P)	09 58 15.0
SEP 13	
H-10 29 17.4	
15.1N 044.7W	
h ABOUT 033KM	
BCN EP	10 40 00.0
EUR EP	10 40 03.8
COL EP	10 41 34.0
SEP 13	
EUR EP	10 32 40.0
SEP 13	
GUA E(P)	10 52 12.0
SEP 13	
H-11 03 50.0	
19.8S 177.7W	
h ABOUT 357KM	
EUR IP	11 15 35.1
ALQ EP	11 15 56.0
COL IP	11 15 57.6
I(pP)	17 29.1
BOZ EP	11 16 04.0
SEP 13	
H-11 52 18.7	
16.3N 091.8W	
h ABOUT 234KM	
CSC E(S)	12 01 52.0
ALQ E(P)	11 57 02.0
SEP 13	
H-12 41 50.6	
17.6S 178.0W	
h ABOUT 421KM	
EUR EP	12 53 22.3
COL EP	12 53 42.0
SEP 13	
COL EP	15 03 26.0
SEP 13	
H-15 07 31.9	
49.4S 163.3E	
h ABOUT 033KM	
COL EP'	15 26 11.0
BOZ EP'	15 26 17.0
SEP 13	
GUA IP	15 37 07.5
SEP 13	
H-15 52 23.8	
15.8S 172.9W	
h ABOUT 033KM	
EUR EP	16 04 14.4
ALQ EP	16 04 37.0
BOZ EP	16 04 45.0
COL IP	16 04 46.0
SEP 13	
H-16 55 47.7	
50.3N 153.0E	
h ABOUT 249KM	
COL IP	17 02 05.5
BOZ IP	17 05 28.0
EUR IP	17 05 40.7
ALQ E(P)	17 06 35.0
SEP 13	
H-17 44 10.2	
61.4N 149.8W	
h ABOUT 033KM	
COL EP	17 45 05.0
E(S)	45 48.0
EUR EP	17 50 18.3
SEP 13	
EUR IP	18 40 50.8
SEP 13	
COL E(P)	19 34 08.0
SEP 13	
H-19 40 44.4	
58.8N 154.9W	
h ABOUT 083KM	
COL IP	19 42 26.2
EUR IP	19 46 59.0
SEP 13	
HHM EP	20 11 02.3
I	11 30.3
BOZ E(P)	20 11 15.0
EL	11 56.5
SEP 13	
COL EP	20 56 23.0
SEP 13	
H-21 38 32.0	
18.2N 100.5W	
h ABOUT 020KM	
ALQ EP	21 42 38.0
EUR EP	21 43 55.8
SEP 13	
EUR IP	22 29 10.9
SEP 13	
H-22 31 21.5	
54.4N 163.7W	
h ABOUT 033KM	
COL E(P)	22 34 27.8
EUR E(P)	22 38 15.7
SEP 13	
H-23 01 05.7	
58.5N 030.8W	
h ABOUT 033KM	
COL E(P)	23 09 43.9
EUR EP	23 10 38.4
SEP 13	
H-23 23 34.6	
58.3N 032.4W	
h ABOUT 025KM	
BOZ E(P)	23 32 08.5
COL E(P)	23 32 11.4
EUR E(P)	23 33 15.4
SEP 14	
GUA EP	00 36 30.0
SEP 14	
GUA E(P)	01 56 38.5
SEP 14	
BCN E(P)	02 19 07.0
EL	19 50.3
EUR EP	02 19 37.5
EL	20 34.5
SEP 14	
COL IP	05 18 43.4
SEP 14	
H-06 19 50.9	
59.3N 032.1W	
h ABOUT 033KM	
COL E(P)	06 28 20.5
BOZ EP	06 28 25.0
EUR EP	06 29 15.1
SEP 14	
H-06 34 41.7	
59.4N 031.2W	
h ABOUT 033KM	
COL EP	06 43 12.7
BOZ EP	06 43 18.0
EUR EP	04 44 13.3
SEP 14	
GUA E(P)	07 25 41.0
SEP 14	
COL EP	09 08 16.5
SEP 14	
GUA EP	09 43 18.2
SEP 14	
H-10 17 46.6	
56.7N 157.4W	
h ABOUT 061KM	
COL IP	10 20 02.3
HHM IP	10 23 26.6
I	23 42.9
IPCP	26 43.9
I	27 03.4
BUT EP	10 23 46.2
E	24 04.2
BOZ EP	10 23 53.2
I	24 08.5
EPCP	26 52.0
EUR IP	10 24 09.6
I	24 29.1
IPCP	26 57.3
IpPCP	27 17.0
ESCP	30 34.8
SLC EP	10 24 20.3
FGU EP	10 24 31.1
BCN IP	10 24 37.6
IPCP	27 07.2
pPCP	27 26.8
EsPCP	27 37.5
KIP EPP	10 26 02.0
ET	11 00 18.0
ALQ IP D	10 25 21.0
E(pP)	25 37.0
ESCP	31 06.0
GUA EP	10 27 55.5
SEP 14	
COL EP	10 38 11.7
SEP 14	
H-11 35 54.4	
52.3N 170.8W	
h ABOUT 050KM	
COL E(P)	11 39 53.0
BOZ EP	11 43 12.0

Date and Station	Phase (GCT)
	h m s
EUR EP	11 43 19.3
SEP 14	
H-11 58 31.3	
41.9S 089.5W	
h ABOUT 033KM	
ALQ E(P)	12 10 29.0
SEP 14	
H-12 25 04.4	
44.7N 146.4E	
h ABOUT 149KM	
COL IP	12 32 30.6
E	33 13.1
BOZ IP	12 35 40.5
EUR IP	12 35 51.0
EpP	36 32.5
BCN EP	12 36 09.0
EpP	36 52.0
ALQ EP	12 36 42.0
SEP 14	
H-12 56 32.2	
9.5S 111.8E	
h ABOUT 127KM	
HHM EP'	13 15 24.0
BOZ EP'	13 15 28.0
EUR EP'	13 15 30.1
SEP 14	
H-13 33 33.7	
15.0N 093.2W	
h ABOUT 064KM	
ALQ IP C	13 38 36.0
E	39 05.0
BCN EP	13 39 25.7
IpP	39 38.2
I	41 10.5
IPCP	42 34.5
EL	48 44.0
FGU IP	13 39 34.3
SLC EP	13 39 42.3
EUR IP	13 39 53.1
IpP	40 05.0
BOZ IP	13 40 15.7
IpP	40 28.5
ES	45 40.0
BUT EP	13 40 22.0
EpP	40 35.0
HHM EP	13 40 42.7
COL IP	13 43 46.9
EpP	44 00.6
HON E(S)	13 52 15.0
E	59 30.0
EL	14 01 46.0

Date and Station	Phase (GCT)
	h m s
SEP 14	
HHM EP	13 47 11.5
I	47 42.5
SEP 14	
HHM EP	14 13 07.0
I	13 38.5
SEP 14	
BUT E(P)	14 29 39.9
COL E(P)	14 29 49.2
EUR IP	14 30 42.9
ALQ E(P)	14 32 04.0
SEP 14	
HHM E(P)	14 31 14.0
COL EP	14 31 16.0
BOZ EP	14 31 20.5
BUT EP	14 31 22.9
EUR EP	14 32 12.2
SEP 14	
H-15 21 09.0	
28.0N 055.8E	
h ABOUT 033KM	
COL EP	15 33 45.0
SEP 14	
H-15 45 22.2	
15.5N 090.8W	
h ABOUT 038KM	
ALQ IP	15 50 35.0
BCN EP	15 51 27.0
EL	16 01 46.5
FGU EP	15 51 30.0
SLC E(P)	15 51 37.5
EUR IP	15 51 52.4
BOZ EP	15 52 11.0
BUT EP	15 52 20.8
HHM E(P)	15 52 45.0
COL IP	15 55 41.7
HON E(S)	16 04 35.0
EL	12 10.0
SEP 14	
KIP ET	16 03 45.0
SEP 14	
SJP E(P)	16 53 52.0
I	53 55.5
ES	54 37.2
EL	54 54.0
SEP 14	
COL EP	17 32 43.0

Date and Station	Phase (GCT)
	h m s
SEP 14	
EUR IP	18 37 32.6
SEP 14	
H-20 40 26.5	
45.2N 150.3E	
h ABOUT 033KM	
COL IP	20 47 48.0
I	47 58.6
HHM EP	20 50 41.1
EpP	50 51.9
BOZ IP	20 51 01.0
IpP	51 11.5
BCN EP	20 51 29.0
EpP	51 41.0
ALQ E(P)	20 52 04.0
SEP 14	
EUR IP	22 37 29.5
EL	37 41.5
SEP 14	
H-22 41 17.2	
16.0N 099.9W	
h ABOUT 033KM	
TUC IP C	22 45 38.7
EL	51 08.0
ALQ EP	22 45 46.0
E	45 53.0
BCN EP	22 46 31.0
EL	54 48.2
FGU EP	22 46 51.0
EUR IP	22 47 01.6
BUT EP	22 47 40.5
HHM EP	22 48 03.0
E(pP)	48 11.1
COL EP	22 51 12.0
SEP 15	
H-01 00 08.0	
15.6S 175.9W	
h ABOUT 009KM	
BCN EP	01 12 05.2
EUR EP	01 12 10.3
TUC EP	01 12 11.4
COL EP	01 12 32.0
ALQ EP	01 12 35.0
E	12 47.0
SEP 15	
HHM EP	01 40 48.4
SEP 15	
TUC E(P)	01 42 28.3

Date and Station	Phase (GCT)
	h m s
SEP 15	
TUC E(P)	01 46 15.0
SEP 15	
TUC EP	02 15 04.8
EUR EP	02 15 08.6
SEP 15	
H-05 09 23.2	
15.1N 091.0W	
h ABOUT 033KM	
EUR EP	05 15 54.7
SEP 15	
H-05 37 45.4	
00.1S 124.6E	
h ABOUT 033KM	
GUA EP	05 43 00.5
ES	47 16.0
COL EP	05 50 37.0
HHM EP'	05 56 17.0
E(PP)	57 06.5
EUR IP'	05 56 21.4
EPP	57 11.7
EPKKP	06 07 11.2
BOZ EP'	05 56 21.0
BCN EP'	05 56 25.0
EPP	57 20.0
EPKKP	06 07 10.5
HON E(PS)	06 00 33.0
EL	10 32.0
TUC EP'	05 56 32.2
ALQ EP'	05 56 38.0
E	56 56.0
EPKKP	06 06 43.0
CSC EP'	05 57 10.0
SEP 15	
SJP EP	05 58 18.5
SEP 15	
COL IP	07 27 13.0
SEP 15	
H-07 51 28.8	
15.4N 090.6W	
h ABOUT 033KM	
ALQ EP	07 56 47.0
SEP 15	
COL E(P)	08 10 45.6
SEP 15	
H-08 57 56.5	
56.4S 027.2W	
h ABOUT 033KM	
EUR EP'	09 16 46.1
COL IP'	09 17 43.5

Date and Station	Phase	(GCT) h m s
SEP 15		
H-11 44 13.7		
22.2S 175.2W		
h ABOUT 033KM		
EUR	EP	11 56 36.5
COL	EP	11 57 09.0
SEP 15		
H-12 44 12.2		
16.0S 172.9W		
h ABOUT 033KM		
KIP	IP	12 51 46.6
BCN	EP	12 55 54.7
	EpP	56 05.0
TUC	IP D	12 56 00.8
EUR	IP	12 56 01.5
	EpP	56 11.7
SLC	EP	12 56 20.0
ALQ	IP D	12 56 25.0
	EpP	56 34.0
BUT	E(P)	12 56 29.0
HHM	EP	12 56 33.3
COL	IP	12 56 34.3
SEP 15		
H-13 12 53.5		
15.8S 173.1W		
h ABOUT 033KM		
EUR	E(P)	13 24 43.2
ALQ	E(P)	13 25 07.0
COL	EP	13 25 16.0
SEP 15		
COL	EP	13 30 18.6
SEP 15		
H-15 29 32.2		
8.9N 093.1E		
h ABOUT 037KM		
GUA	EP	15 38 32.0
	ES	45 44.0
COL	EP C	15 42 46.0
	EPP	46 36.0
	EPKKP	59 50.0
HON	EP	15 43 36.0
	EPP	47 55.0
	ISKS	54 12.0
	ESKKS	54 54.0
	EPS	57 00.0
	ESS	16 02 10.0
	EL	12 40.0
KIP	EPP	15 47 51.0
	ISKS	54 10.0
	ESKKS	54 53.0
	EPS	57 00.0
	ESS	16 02 18.0
	EL	12 40.0
HHM	E(P)	15 44 38.2
	IP'	48 17.7
	IPP	49 33.2
	E(SKS)	55 03.0
	EPKKP	58 37.7
	EPS	59 23.2
	EP'P'	16 09 07.8
UKI	EP'	15 48 25.5
BOZ	EPP	15 49 52.0
EUR	IP'	15 48 30.9
	EPP	50 16.0
	ISKP	52 01.3
SLC	IP'	15 48 32.6
BCN	EP'	15 48 28.5
	IP'	48 37.8
ALQ	EP'	15 48 31.5
	EP'	48 46.0
	E	49 09.0
	ESKP	52 08.0
SJP	EP'	15 49 09.0
BHP	IP'	15 49 31.0
SEP 15		
HHM	E(P)	15 43 58.0
SEP 15		
H-16 13 33.1		
41.6S 073.6W		
h ABOUT 082KM		
ALQ	EP	16 25 45.0
SEP 15		
EUR	IP	18 36 48.3
SEP 15		
H-18 37 10.1		
06.6S 146.8E		
h ABOUT 059KM		
COL	IP	18 49 44.5
SEP 15		
H-18 44 48.7		
48.6N 154.0E		
h ABOUT 033KM		
COL	EP	18 51 34.0
EUR	EP	18 55 05.9
SEP 15		
ALQ	E(P)	19 24 59.0
	E	25 42.0
SEP 15		
ALQ	E(P)	20 02 50.0
SEP 15		
H-20 23 35.2		
54.5S 053.4W		
h ABOUT 033KM		
COL	EP'	20 42 52.0
SEP 15		
FGU	E(P)	20 45 01.6
SEP 15		
COL	IP	21 18 39.0
SEP 15		
H-21 56 07.2		
15.3N 090.8W		
h ABOUT 074KM		
ALQ	E(P)	22 01 17.0
TUC	EP	22 01 24.6
BCN	EP	22 02 08.5
FGU	E(P)	22 02 12.5
EUR	IP	22 02 37.3
COL	EP	22 06 24.6
SEP 15		
HON	IP	21 56 13.1
KIP	IP	21 56 14.6
SEP 15		
BCN	IP	23 01 40.8
	IS	01 53.2
SEP 15		
KIP	ET	23 22 52.0
SEP 15		
EUR	IP	23 52 02.3
SEP 16		
COL	E(P)	00 00 44.6
SEP 16		
H-01 26 26.9		
10.9N 093.1E		
h ABOUT 047KM		
COL	E(P)	01 39 34.0
HHM	EP'	01 45 03.0
EUR	IP'	01 45 21.6
	EPP	46 58.4
FGU	EP	01 45 24.0
BCN	EP'	01 45 29.0
	EP'	45 45.0
	E	47 25.0
ALQ	EP'	01 45 38.0
	EP'	45 44.0
	ESKP	48 58.0
TUC	EP'	01 45 40.1
	ESKP	49 01.3
SEP 16		
H-01 50 33.9		
60.0N 147.1W		
h ABOUT 029KM		
COL	IP	01 51 48.5
SIT	IP	01 52 09.0
HHM	EP	01 55 29.6
	ES	59 33.6
UKI	E(P)	01 55 49.6
BOZ	EP	01 56 00.0
	ES	02 00 04.0
EUR	IP	01 56 26.5
	IpP	56 32.7
	EPCP	59 39.6
	ESCP	02 03 18.8
SLC	EP	01 56 33.9
FGU	E(P)	01 56 42.0
BCN	EP	01 56 56.5
	EL	02 07 39.0
ALQ	EP	01 57 36.0
TUC	IP	01 57 39.9
	ES	02 03 29.0
KIP	E(P)	01 58 08.0
	ES	02 04 08.0
	EL	06 57.0
	ET	39 09.0
HON	E(P)	01 58 08.0
	E	59 50.0
	ES	02 04 12.0
	EL	05 55.0
	EL	06 58.0
WAS	E(P)	01 59 22.0
	ES	02 06 00.0
PHI	E(S)	02 06 03.7
SEP 16		
BOZ	EP	03 31 35.0
	I	31 41.5
SEP 16		
H-03 32 33.8		
51.6N 173.8W		
h ABOUT 045KM		
COL	E(P)	03 36 53.0
BOZ	EP	03 40 09.8
EUR	EP	03 40 18.5
	E(pP)	40 29.2
TUC	E(P)	03 41 18.0
SEP 16		
GUA	IP	05 10 23.6

Date and Station	Phase (GCT)
	h m s
SEP 16	
H-05 20 46.1	
5.9S 152.0E	
h ABOUT 029KM	
GUA E(P)	05 24 24.0
EL	29 16.0
HON E(S)	05 38 21.0
EL	45 18.0
COL IP	05 33 09.8
I▸P	33 20.1
EUR IP	05 34 09.9
BCN E(P)	05 34 18.2
HHM E(P)	05 34 18.0
BOZ EP	05 34 24.9
TUC E(P)	05 34 29.6
SEP 16	
H-05 34 30.7	
37.1N 114.9W	
h ABOUT 033KM	
BCN IP D	05 34 50.0
IS	35 04.5
EUR IP	05 35 10.0
TUC EP	05 35 57.1
EL	37 32.4
ALQ E(P)	05 36 26.0
SEP 16	
ALQ EP	05 38 10.0
E	38 17.0
SEP 16	
BCN EP	06 27 55.8
ES	28 10.8
EUR EP	06 28 16.8
EL	28 52.8
SEP 16	
COL E(P)	06 27 57.0
SEP 16	
H-08 42 14.9	
19.6N 106.9W	
h ABOUT 033KM	
TUC E(P)	08 45 22.0
ALQ E(P)	08 45 57.0
EUR EP	08 47 00.0
SEP 16	
BOZ E(P)	08 48 12.0
SEP 16	
COL E(P)	10 04 35.3
SEP 16	
EUR IP	10 54 55.1
EL	55 17.4

Date and Station	Phase (GCT)
	h m s
SEP 16	
H-12 22 44.3	
34.4N 119.4W	
h ABOUT 014KM	
BCN E(P)	12 23 49.0
EL	24 47.0
EUR EP	12 24 12.5
E(S)	25 29.5
SEP 16	
TUC E(P)	13 06 56.0
E	07 44.3
BCN E(P)	13 07 20.0
ES	08 17.0
EL	08 46.0
EUR EP	13 07 28.0
SEP 16	
BHP IP	13 13 10.0
SEP 16	
TUC E(P)	13 45 14.9
E	45 54.9
SEP 16	
TUC E(P)	13 47 20.3
E	47 55.6
SEP 16	
COL EP	13 53 40.0
SEP 16	
BCN E(P)	13 48 45.0
EL	50 07.0
SEP 16	
TUC EP	13 55 35.0
EUR EP	13 55 36.2
BOZ IP	13 56 05.0
SEP 16	
COL IP	13 56 01.7
SEP 16	
H-14 40 38.4	
31.4N 114.0W	
h ABOUT 033KM	
TUC EP	14 41 22.0
E	41 30.3
ES	42 00.0
BCN EP	14 41 47.0
ES	42 43.0
EL	43 12.6
ALQ E(P)	14 42 26.0
EUR E(P)	14 42 39.0
EL	44 59.0
SEP 16	
H-15 13 01.5	
43.7N 141.2E	
h ABOUT 166KM	
COL IP	15 20 51.0

Date and Station	Phase (GCT)
	h m s
SEP 16	
BOZ EP	15 37 37.0
SEP 16	
EUR EP	16 26 38.1
SEP 16	
COL EP	16 49 39.0
SEP 16	
EUR IP	16 53 13.9
SEP 16	
ALQ EP	16 54 09.0
SEP 16	
BOZ EP	17 08 02.0
SEP 16	
H-17 23 16.1	
10.3S 161.3E	
h ABOUT 046KM	
EUR EP	17 36 18.1
SEP 16	
COL EP	19 07 23.0
SEP 16	
SJP IP	19 08 08.8
IS	08 25.6
SEP 16	
BHP IP	19 18 36.0
IS	18 45.0
SEP 16	
H-19 26 25.4	
41.6N 139.3E	
h ABOUT 033KM	
BOZ EP	19 37 50.0
EUR EP	19 38 04.2
SEP 16	
H-20 32 11.2	
29.7S 069.7W	
h ABOUT '076KM	
ALQ E(P)	20 43 32.0
EUR EP	20 44 20.2
SEP 16	
TUC E(P)	20 38 07.5
BCN E(P)	20 38 35.6
EL	40 05.0
SEP 16	
H-20 47 16.0	
16.1S 176.5W	
h ABOUT 352KM	
BCN EP	20 58 37.0
EUR IP	20 58 43.3
TUC E(P)	20 58 45.2
COL IP	20 59 06.5
ALQ E(P)	20 59 08.0

Date and Station	Phase (GCT)
	h m s
BOZ IP	20 59 14.0
I	59 19.9
SEP 16	
BHP IP	21 14 27.0
IS	14 52.0
SEP 16	
KIP IP	21 26 38.1
SEP 16	
H-22 22 18.0	
59.6N 146.7W	
h ABOUT 033KM	
COL IP	22 23 37.3
HHM E(P)	22 27 11.0
EUR EP	22 28 07.2
EPCP	31 12.2
TUC E(P)	22 29 21.0
SEP 16	
GUA I(P)	22 32 07.9
IS	32 13.8
SEP 16	
H-22 23 36.3	
22.9N 045.1W	
h ABOUT 033KM	
SJP EP	22 28 09.5
ALQ E(P)	22 33 02.5
E	33 09.0
FGU EP	22 33 16.2
SLC E(P)	22 33 21.2
E	33 29.2
BOZ EP	22 33 26.0
BUT E(P)	22 33 29.0
TUC IP D	22 33 30.0
HHM EP	22 33 37.0
BCN EP	22 33 48.2
EPCP	34 26.5
EUR IP	22 33 51.5
COL EP	22 35 14.0
SEP 16	
H-22 37 26.5	
56.3N 162.8E	
h ABOUT 029KM	
COL EP	22 42 49.0
BUT E(P)	22 46 25.0
BOZ EP	22 46 31.5
EUR IP	22 46 48.4
EPCP	47 53.2
TUC EP	22 47 46.0

Date and Station	Phase (GCT)
	h m s
ALQ IP D	22 47 48.0
SEP 16	
EUR IP	22 38 31.0
EL	38 42.2
SEP 16	
HON E	22 51 26.0
E	56 25.0
EL	23 11 10.0
SEP 17	
EUR IP	00 29 29.8
SEP 17	
HON IP	01 26 21.0
KIP IP	01 26 23.9
SEP 17	
H-02 06 26.8	
59.1N 148.3W	
h ABOUT 033KM	
COL IP	02 07 51.5
FUR E(P)	02 12 18.3
SEP 17	
EUR IP	02 44 38.5
EL	44 54.3
SEP 17	
H-02 48 52.2	
17.6N 100.3W	
h ABOUT 074KM	
TUC EP	02 52 51.4
ALQ IP	02 53 01.0
E	53 15.0
BCN EP	02 53 45.5
EUR IP	02 54 17.2
COL EP	02 58 30.5
SEP 17	
COL EP	03 39 42.8
E	40 30.9
SEP 17	
H-05 56 31.2	
28.3N 143.4E	
h ABOUT 033KM	
COL EP	06 06 07.2
HHM EP	06 08 24.6
EUR IP	06 08 39.2
TUC E(P)	06 09 16.0
SEP 17	
H-06 59 37.8	
26.5S 176.4W	
h ABOUT 033KM	
BCN EP	07 12 12.5
TUC EP	07 12 15.9

Date and Station	Phase (GCT)
	h m s
EUR IP	07 12 19.4
ALQ EP	07 12 36.0
E	12 46.0
COL IP	07 12 52.6
SEP 17	
BOZ E(P)	07 13 54.9
SEP 17	
H-07 41 13.9	
15.6S 072.9W	
h ABOUT 118KM	
CSC EP	07 49 57.0
EpP	50 26.0
ALQ IP D	07 51 07.0
E	51 15.0
TUC EP	07 51 10.2
BCN EP	07 51 42.5
EUR IP	07 52 02.6
I(pP)	52 27.5
BOZ IP	07 52 17.5
HHM EP	07 52 35.9
COL IP	07 54 36.7
SEP 17	
GUA E(P)	08 22 42.5
SEP 17	
COL EP	09 51 45.0
SEP 17	
GUA E(P)	10 47 12.5
SEP 17	
H-10 57 51.1	
4.9N 076.2W	
h ABOUT 120KM	
ALQ EP	11 05 24.0
SEP 17	
TUC EP	11 12 36.2
E	13 00.0
E(S)	13 47.2
ALQ E(P)	11 13 34.0
E	16 16.0
EUR E(P)	11 14 29.0
EL	17 57.1
SEP 17	
COL EP	13 04 07.1
SEP 17	
COL E(P)	13 06 22.6
SEP 17	
H-15 02 00.9	
44.5N 031.3W	
h ABOUT 024KM	
SJP EP	15 09 28.0
IPCP	11 38.0

Date and Station	Phase (GCT)
	h m s
HHM IP D	15 11 27.0
IpP	11 34.0
BOZ IP	15 11 28.0
IpP	11 35.0
BUT EP	15 11 30.5
FGU IP	15 11 35.8
ALQ IP D	15 11 45.0
EpP	11 52.0
SLC EP	15 11 46.4
COL IP	15 12 09.0
E(PP)	15 15.2
EP'P'	41 25.7
EUR IP	15 12 10.8
EPP	14 18.2
TUC IP D	15 12 16.8
EpP	12 23.2
UKI EP	15 12 42.4
SEP 17	
H-15 06 13.8	
12.8S 168.9E	
h ABOUT 622KM	
COL IP	15 17 40.3
EUR EP	15 17 56.4
SEP 17	
COL EP	15 08 49.0
SEP 17	
EUR EP	15 22 31.6
SEP 17	
COL EP	15 35 55.0
SEP 17	
GUA IP	15 40 11.7
IS	40 38.9
SEP 17	
BHP IP	18 35 36.0
IS	35 55.0
SEP 17	
COL E(P)	19 37 07.0
SEP 17	
BHP IP	19 46 33.0
IS	46 45.0
SEP 17	
FGU EP	22 04 22.2
EL	04 44.5
SEP 17	
H-22 07 40.2	
38.7N 071.9W	
h ABOUT 000KM	
PHI EP	22 08 28.6
SJP E(P)	22 12 40.5
ALQ E(P)	22 13 30.0

Date and Station	Phase (GCT)
	h m s
TUC EP	22 14 11.4
EUR IP	22 14 28.4
COL IP	22 16 36.2
SEP 17	
H-22 17 20.0	
42.8N 110.8W	
h ABOUT 033KM	
SLC E(P)	22 17 54.3
IS	18 25.5
FGU EP	22 17 55.0
ES	18 23.4
BOZ E(P)	22 18 05.0
I	18 07.0
EUR IP	22 18 36.8
SEP 17	
SJP I(P)	22 33 29.0
I(S)	33 48.0
SEP 17	
EUR IP	22 36 16.6
EL	36 47.7
SEP 17	
SJP I(P)	22 34 37.0
I(S)	34 56.5
SEP 17	
SJP I(P)	22 35 30.0
I(S)	35 49.0
SEP 17	
TUC EP	22 57 26.9
SEP 17	
COL EP	22 57 45.0
SEP 18	
BOZ E(P)	00 06 53.0
SEP 18	
H-00 08 42.6	
35.4N 028.8E	
h ABOUT 018KM	
COL EP	00 20 53.0
SEP 18	
COL EP	00 26 47.0
SEP 18	
TUC E(P)	01 03 03.8
SEP 18	
EUR IP	01 31 13.3
SEP 18	
COL IP	03 33 06.8
SEP 18	
EUR EP	04 37 02.3
SEP 18	
EUR EP	06 05 56.5
E(S)	06 42.5

Date and Station	Phase (GCT)
	h m s
SEP 18	
TUC E(P)	06 33 22.5
SEP 18	
H-07 20 34.2	
54.2N 164.0W	
h ABOUT 033KM	
COL E(P)	07 23 45.0
BOZ EP	07 27 17.0
EUR IP	07 27 27.4
TUC E(P)	07 28 45.0
SEP 18	
COL IP	07 52 13.0
SEP 18	
H-07 59 54.8	
72.9N 055.2E	
h ABOUT 000KM	
BOZ IP	08 10 14.2
EUR EP	08 10 54.8
TUC E(P)	08 11 39.0
SEP 18	
GUA IP	09 36 41.9
IS	36 44.2
SEP 18	
EUR IP	10 08 03.7
EL	08 29.7
SEP 18	
H-10 25 28.1	
19.4N 155.3W	
h ABOUT 010KM	
HON IP	10 26 18.5
IS	26 57.0
KIP IP	10 26 19.0
IS	26 58.0
BCN EP	10 32 57.2
EUR IP	10 32 59.9
TUC E(P)	10 33 21.0
HHM EP	10 33 38.7
BOZ IP	10 33 41.5
ALQ EP	10 33 52.0
COL IP	10 33 52.2
SEP 18	
COL EP	10 27 38.0
SEP 18	
SJP E(P)	10 55 34.0
EL	56 39.5
SEP 18	
COL EP	11 17 04.0

Date and Station	Phase (GCT)
	h m s
SEP 18	
BOZ EP	12 02 49.9
SEP 18	
KIP E(P)	12 08 46.0
SEP 18	
HON EP	12 09 23.0
KIP EP	12 09 23.0
SEP 18	
COL IP	12 12 13.7
ES	13 44.0
SEP 18	
HHM EP	12 15 33.4
BOZ EP	12 16 04.0
EUR E(P)	12 16 31.4
SEP 18	
H-12 22 13.3	
51.4N 179.9W	
h ABOUT 033KM	
COL EP	12 26 59.0
HHM EP	12 29 58.4
BOZ EP	12 30 19.7
EUR IP	12 30 28.2
BCN EP	12 30 49.0
TUC E(P)	12 31 25.2
ALQ EP	12 31 34.0
SEP 18	
EUR IP	12 34 08.9
SEP 18	
GUA IP	12 37 49.0
IS	37 56.5
SEP 18	
COL EP	13 12 05.7
SEP 18	
H-13 12 42.3	
39.8N 029.7W	
h ABOUT 020KM	
SJP E(P)	13 20 05.0
BOZ IP	13 22 35.8
ES	30 40.0
HHM EP	13 22 36.3
BUT EP	13 22 40.0
ALQ IP	13 22 47.0
E	23 03.0
ES	30 58.0
SLC IP	13 22 54.1
EUR IP	13 23 15.3
EPCP	25 51.3
EP'P'	52 16.4

Date and Station	Phase (GCT)
	h m s
TUC EP	13 23 17.2
E(S)	32 00.0
BCN EP	13 23 20.8
COL EP	13 23 24.0
HON E	13 45 45.0
EL	14 01 18.0
SEP 18	
ALQ EP	14 01 16.0
SEP 18	
EUR EP	14 36 34.1
I	36 47.4
SEP 18	
COL IP	14 38 50.8
SEP 18	
EUR IP	16 10 03.4
E(S)	10 59.4
SEP 18	
TUC E(P)	16 36 43.0
SEP 18	
BOZ EP	17 31 24.0
SEP 18	
EUR IP	18 35 00.5
EL	35 13.5
SEP 18	
H-19 09 03.9	
58.3N 151.8W	
h ABOUT 053KM	
COL EP	19 10 45.0
BOZ EP	19 14 46.0
EUR EP	19 15 05.3
SEP 18	
BOZ E(P)	20 31 29.0
IL	32 20.0
EUR EP	20 31 56.1
E(S)	33 07.9
SEP 18	
GUA EP	21 29 49.5
I	30 09.5
SEP 18	
H-22 01 28.3	
44.9N 111.2W	
h ABOUT 041KM	
BZM IP	22 01 42.2
IS	01 54.0
BOZ IP C	22 01 42.4
IS	01 53.0
BUT E(P)	22 01 53.3
HHM EP	22 02 28.2
I	02 39.7
ES	03 12.2

Date and Station	Phase (GCT)
	h m s
FGU E(P)	22 02 29.4
E	02 39.5
SLC E(P)	22 02 34.4
EUR EP	22 03 07.7
SEP 18	
TUC E(P)	22 20 48.8
E	20 56.0
SEP 18	
COL EP	22 55 16.0
SEP 18	
EUR EP	23 18 46.6
SEP 18	
COL IP	23 38 06.1
SEP 19	
H-00 39 10.7	
36.5N 070.0E	
h ABOUT 212KM	
COL E(P)	00 50 27.4
SEP 19	
TUC E(P)	00 59 49.8
SEP 19	
COL EP	01 14 53.0
SEP 19	
BHP IP	02 46 07.0
IS	47 23.0
SEP 19	
GUA E(P)	02 47 28.0
SEP 19	
TUC E(P)	03 35 31.7
SEP 19	
TUC E(P)	03 45 21.8
SEP 19	
ALQ E(P)	05 07 41.0
SEP 19	
H-05 08 15.1	
15.3N 094.0W	
h ABOUT 042KM	
BHP E(P)	05 11 58.0
CSC E(P)	05 13 12.0
E(S)	17 16.0
ALQ IP C	05 13 14.0
E	13 20.0
E(S)	17 26.0
TUC EP C	05 13 16.0
ES	17 28.0
BCN EP	05 14 00.5
EL	23 25.5
FGU EP	05 14 12.3
SLC EP	05 14 20.2

Date and Station	Phase	Phase (GCT) h m s
EUR	IP	05 14 29.3
	I	14 42.5
	EL	25 21.5
BOZ	EP C	05 14 54.2
	ES	20 20.0
BUT	EP	05 15 00.2
	ES	20 34.2
HHM	EP	05 15 26.2
HON	E	05 18 45.0
	IS	26 45.0
	EL	33 49.0
KIP	ES	05 26 45.0
	EL	33 49.0
COL	IP	05 18 27.0
	E(SCP)	22 40.0
SEP 19		
EUR	EP	05 46 30.8
	EL	47 00.9
SEP 19		
COL	EP	05 59 20.3
SEP 19		
COL	IP	07 01 12.4
BOZ	EP	07 04 22.0
EUR	EP	07 04 31.6
SEP 19		
COL	IP	08 41 00.3
SEP 19		
H-10 06 38.1		
20.8S 178.3W		
h ABOUT 434KM		
COL	EP	10 18 43.2
SEP 19		
COL	EP	10 44 41.0
SEP 19		
COL	EP	14 56 25.0
SEP 19		
COL	E(P)	15 15 12.3
SEP 19		
GUA	E(P)	15 20 15.2
SEP 19		
COL	E(P)	15 31 26.6
SEP 19		
BOZ	EP	16 12 27.0
SEP 19		
COL	IP	17 06 22.0
SEP 19		
BOZ	E(P)	17 09 10.0
SEP 19		
H-17 26 13.0		
5.6S 081.0W		
h ABOUT 033KM		

Date and Station	Phase	Phase (GCT) h m s
SJP	EP	17 32 06.6
ALQ	IP C	17 34 43.0
	E	34 55.0
TUC	EP	17 34 45.1
EUR	IP	17 35 46.0
BOZ	IP	17 36 03.5
HHM	EP	17 36 26.0
SEP 19		
HHM	E(P)	18 35 59.0
	EL	35 36.2
SEP 19		
COL	E(P)	18 38 26.0
SEP 19		
COL	EP	18 46 13.0
SEP 19		
COL	E(P)	19 16 46.0
SEP 19		
HHM	EP	19 19 23.2
BOZ	E(P)	19 19 28.0
EUR	IP	19 19 45.1
SEP 19		
FGU	IP	19 29 28.0
	EL	29 53.5
SEP 19		
H-19 41 21.8		
21.6N 120.9E		
h ABOUT 033KM		
COL	EP	19 52 38.0
SEP 19		
COL	IP	20 24 21.2
SEP 19		
EUR	IP	20 24 34.9
	EL	25 00.3
BCN	E(P)	20 25 00.8
	EL	25 55.2
SEP 19		
GUA	EP	20 41 26.0
SEP 19		
BUT	EP	20 52 13.1
	IL	52 28.1
BOZ	IP	20 52 13.5
	IL	52 29.0
SEP 19		
H-21 34 10.2		
22.1S 177.6W		
h ABOUT 251KM		
TUC	EP	21 46 13.0
COL	EP	21 46 39.2
	E(pP)	47 32.8

Date and Station	Phase	Phase (GCT) h m s
BOZ	IP	21 46 43.0
SEP 19		
COL	E(P)	22 09 37.9
SEP 19		
BOZ	EP	23 08 46.0
	IL	09 17.0
SEP 20		
KIP	EP	01 20 14.0
SEP 20		
COL	EP	01 45 02.0
SEP 20		
TUC	E(P)	01 47 24.0
SEP 20		
BHP	IP D	02 46 07.0
	IS	47 23.0
SEP 20		
TUC	E(P)	02 50 10.0
SEP 20		
EUR	EP	03 28 41.1
	EL	29 09.6
SEP 20		
COL	E(P)	03 46 52.0
SEP 20		
ALQ	E(P)	03 47 41.0
SEP 20		
HHM	EP	04 13 16.1
SEP 20		
H-04 20 17.6		
49.5S 116.2W		
h ABOUT 033KM		
TUC	E(P)	04 32 33.0
EUR	IP	04 33 08.1
SEP 20		
GUA	IP	04 33 04.0
	IS	33 20.0
SEP 20		
H-04 33 29.4		
49.6S 116.2W		
h ABOUT 033KM		
TUC	E(P)	04 45 43.5
ALQ	E(P)	04 46 01.0
EUR	IP	04 46 19.0
	E(PP)	49 56.4
KIP	E(S)	04 56 32.0
	EL	05 09 50.0
HON	E(S)	04 56 32.0
	EL	05 09 50.0
SEP 20		
BHP	EP	05 04 50.0
SEP 20		
TUC	E(P)	05 31 05.6

Date and Station	Phase	Phase (GCT) h m s
SEP 20		
COL	EP	05 40 16.3
SEP 20		
COL	E(P)	06 14 33.1
SEP 20		
COL	EP	06 21 35.0
SEP 20		
COL	EP	07 24 25.5
SEP 20		
TUC	E(P)	07 30 13.8
SEP 20		
H-07 42 27.7		
41.3N 124.9W		
h ABOUT 033KM		
EUR	E(P)	07 44 17.0
TUC	E(P)	07 45 51.0
SEP 20		
COL	E(P)	08 03 04.4
SEP 20		
COL	IP	09 06 48.2
SEP 20		
H-09 18 18.6		
32.4N 141.6E		
h ABOUT 033KM		
COL	E(P)	09 27 34.0
HHM	EP	09 29 59.6
EUR	EP	09 30 19.0
SEP 20		
TUC	EP	12 32 37.7
SEP 20		
COL	EP	12 53 02.0
SEP 20		
COL	EP	13 16 46.0
SEP 20		
BOZ	E(P)	13 28 07.0
ALQ	IP	13 28 13.0
	E	28 21.0
HHM	EP	13 28 18.0
SEP 20		
H-14 36 05.3		
30.0N 138.1E		
h ABOUT 454KM		
GUA	IP	14 39 43.2
	IS	42 40.0
COL	IP	14 45 04.3
HHM	EP	14 47 22.0
	EpP	49 05.0
BUT	IP	14 47 33.3
	EpP	49 15.8

Date and Station	Phase (GCT)
	h m s
BOZ EP C	14 47 36.5
E▸P	49 16.0
EUR IP	14 47 40.5
I▸P	49 24.1
EPP	50 56.4
SLC EP	14 47 51.0
BCN EP	14 47 53.2
E(▸P)	49 45.5
TUC EP	14 48 17.5
ALQ IP	14 48 23.5
E▸P	50 09.0
SEP 20	
TUC EP	15 05 45.0
SEP 20	
COL E(P)	15 14 28.5
E	14 45.8
SEP 20	
EUR IP	16 15 58.2
E(S)	16 30.2
SEP 20	
TUC E(P)	18 43 33.5
SEP 20	
COL EP	20 22 20.0
SEP 20	
GUA EP	20 24 56.0
ES	25 11.6
SEP 20	
H-20 43 10.9	
24.0N 121.8E	
h ABOUT 037KM	
COL EP	20 54 12.0
HHM EP	20 56 20.5
BOZ EP	20 56 33.5
EUR E(P)	20 56 41.0
SEP 20	
SLC EP	21 30 49.7
I	31 03.2
EUR EP	21 31 40.8
E(S)	32 21.6
SEP 20	
EUR IP	22 22 40.9
SEP 20	
BOZ EP	22 35 02.0
SEP 20	
COL EP	22 46 48.0
SEP 21	
H-00 10 36.8	
5.0N 076.0W	
h ABOUT 116KM	
BHP IP	00 11 54.0

Date and Station	Phase (GCT)
	h m s
ALQ IP D	00 18 11.0
TUC IP	00 18 21.8
COL EP	00 22 22.0
SEP 21	
SLC E(P)	00 37 07.9
FGU EP	00 37 17.7
BCN EP	00 37 20.5
EL	38 02.8
ALQ EP	00 37 52.0
E	38 11.0
E	39 25.0
TUC E(P)	00 38 13.5
SEP 21	
RCD EP	01 39 58.0
SEP 21	
COL EP	01 57 22.0
SEP 21	
COL E(P)	02 05 21.0
SEP 21	
BOZ E(P)	02 32 55.0
SEP 21	
BUT E(P)	03 21 16.0
BOZ EP	03 21 21.0
EL	21 57.0
SEP 21	
H-04 23 19.7	
21.8S 179.6W	
h ABOUT 609KM	
HON IP	04 31 05.1
KIP IP	04 31 05.5
GUA IP	04 31 18.0
TUC IP C	04 34 53.9
E▸P	37 03.7
ESKS	44 23.0
COL IP	04 35 14.0
I▸P	37 26.7
ALQ IP C	04 35 14.0
E▸P	37 25.0
HHM E(P)	04 35 21.2
E▸P	37 34.6
EPP	39 07.9
ESKS	44 56.9
BUT E▸P	04 37 32.6
BOZ IP	04 35 21.9
I▸P	37 35.0
SEP 21	
GUA EP	04 27 45.0
ES	28 29.0

Date and Station	Phase (GCT)
	h m s
SEP 21	
GUA E(P)	04 48 49.5
SEP 21	
BOZ E(P)	05 00 49.0
SEP 21	
H-05 37 48.9	
7.0S 129.4E	
h ABOUT 123KM	
GUA EP	05 43 09.2
COL EP	05 50 50.0
BOZ EP'	05 56 19.9
TUC EP'	05 56 27.2
ALQ IP'	05 56 33.2
SEP 21	
SJP E(P)	06 01 23.0
EL	02 09.0
SEP 21	
GUA E(P)	07 04 16.5
SEP 21	
COL E(P)	07 20 12.5
SEP 21	
COL IP	08 15 51.2
SEP 21	
RCD EP	09 16 40.0
SEP 21	
GUA EP	09 38 42.0
SEP 21	
TUC E(P)	10 18 27.5
EL	19 15.5
SEP 21	
COL EP	10 24 16.8
SEP 21	
COL IP	10 28 20.5
SEP 21	
COL EP	11 59 54.9
COL EP	12 01 24.0
SEP 21	
SEP 21	
H-12 01 46.6	
17.8S 167.3E	
h ABOUT 033KM	
COL IP	12 14 39.2
TUC EP	12 14 57.4
SEP 21	
COL E(P)	12 25 09.4
SEP 21	
HHM E(P)	13 09 30.0
SEP 21	
ALQ EP	13 15 06.0
E	16 20.0

Date and Station	Phase (GCT)
	h m s
TUC E(P)	13 15 08.5
SEP 21	
COL IP	13 27 05.2
SEP 21	
H-13 27 32.9	
07.2S 074.3W	
h ABOUT 150KM	
ALQ IP D	13 36 28.0
E▸P	37 04.0
TUC EP	13 36 31.7
E▸P	37 08.8
BOZ IP	13 37 41.2
E▸P	38 18.0
SEP 21	
TUC E(P)	13 43 33.7
SEP 21	
COL EP	14 14 21.8
SEP 21	
H-14 17 54.4	
36.2S 100.2W	
h ABOUT 033KM	
TUC EP	14 28 57.0
ALQ EP	14 29 11.0
BOZ IP	14 30 13.5
I▸P	30 21.0
BUT EP	14 30 16.7
HHM E(P)	14 30 29.0
SEP 21	
COL EP	15 57 58.0
SEP 21	
H-16 29 35.9	
48.0N 152.9E	
h ABOUT 005KM	
COL IP	16 36 33.5
BOZ IP	16 39 53.2
TUC EP	16 40 54.8
SEP 21	
H-16 57 36.2	
19.9S 178.5W	
h ABOUT 512KM	
TUC EP	17 09 09.0
COL IP	17 09 30.3
BOZ IP	17 09 37.0
SEP 21	
COL EP	17 56 38.0
SEP 21	
EUR EP	18 00 11.3
SEP 21	
RCD EP	18 00 50.0

Date and Station	Phase	Phase (GCT) h m s
SEP 21		
H-18 10 51.6		
30.1S 179.5W		
h ABOUT 319KM		
TUC	IP D	18 23 17.8
EUR	IP	18 23 21.5
BOZ	EP	18 23 49.2
COL	EP	18 23 50.0
SEP 21		
GUA	IP	18 57 22.0
	ES	57 37.0
SEP 21		
H-19 29 25.2		
12.1N 142.9E		
h ABOUT 033KM		
GUA	IP	19 30 03.0
	I(S)	30 33.0
COL	EP	19 40 36.0
EUR	EP	19 42 28.1
BOZ	EP	19 42 32.0
SEP 21		
EUR	EP	20 03 01.6
SEP 21		
COL	IP	20 30 58.3
SEP 21		
RCD	E(P)	20 45 44.0
SEP 21		
COL	IP	21 36 26.2
SEP 21		
ALQ	IP D	21 59 14.0
	E(S)	59 45.0
SEP 21		
H-22 02 25.0		
48.0N 152.7E		
h ABOUT 031KM		
COL	IP	22 09 19.2
BOZ	EP	22 12 38.0
EUR	IP	22 12 50.3
TUC	E(P)	22 13 40.1
SEP 21		
COL	EP	22 11 40.0
SEP 21		
EUR	IP	22 30 45.5
SEP 21		
TUC	EP	23 04 14.0
SEP 21		
BOZ	EP	23 13 22.0
	IL	13 34.0
SEP 21		
H-23 16 35.8		
20.2S 177.8W		
h ABOUT 511KM		
TUC	EP	23 28 07.5
EUR	EP	23 28 07.5
	EPCP	28 10.8
COL	IP	23 28 30.0
SEP 22		
COL	IP	01 06 20.8
SEP 22		
BOZ	EP	01 10 20.5
SEP 22		
COL	EP	01 54 30.0
SEP 22		
SJP	IP D	04 14 25.5
	IS	14 37.6
SEP 22		
BCN	IP C	04 58 31.8
EUR	EP	04 59 41.2
	E(S)	05 00 31.7
SEP 22		
BCN	IP C	05 10 40.7
SEP 22		
BCN	IP C	05 28 15.6
	IS	28 17.6
SEP 22		
BOZ	EP	05 37 24.0
	EL	37 57.0
EUR	EP	05 37 57.0
SEP 22		
TUC	EP	05 46 46.7
SEP 22		
COL	EP	06 32 31.0
SEP 22		
EUR	EP	06 37 00.0
SEP 22		
H-06 52 10.0		
44.4N 114.8W		
h ABOUT 015KM		
BUT	EP	06 52 50.0
	ES	53 18.0
BOZ	IP	06 52 51.9
	IS	53 16.0
HHM	EP	06 53 12.7
	EL	54 16.7
EUR	IP	06 53 27.1
SEP 22		
H-08 03 51.0		
44.3N 114.7W		
h ABOUT 033KM		
BUT	E(P)	08 04 27.0
	E	04 31.1
	E(S)	04 48.0
BOZ	EP	08 04 30.5
	IL	05 09.0
HHM	E(P)	08 04 54.0
	EL	05 59.0
EUR	IP	08 05 06.1
SEP 22		
BOZ	EP	08 35 57.5
	EL	36 32.0
SEP 22		
H-09 05 06.4		
23.9S 070.7W		
h ABOUT 033KM		
SJP	E(P)	09 13 03.0
ALQ	E(P)	09 15 03.0
	EpP	15 11.3
TUC	EP	09 16 03.3
	E	16 14.0
BCN	E(P)	09 16 33.5
	IpP	16 41.3
	IPCP	16 50.0
EUR	IP	09 16 52.9
	IpP	17 01.6
	EPCP	17 09.5
BOZ	EpP	09 16 57.0
	IPCP	17 01.2
HHM	EP	09 17 23.2
SEP 22		
H-09 07 32.8		
43.7N 147.7E		
h ABOUT 033KM		
COL	IP	09 15 12.8
EUR	IP	09 18 39.3
SEP 22		
COL	EP	09 09 48.3
SEP 22		
COL	E(P)	09 13 07.1
SEP 22		
H-09 46 27.8		
10.6N 070.0W		
h ABOUT 012KM		
SJP	E(P)	09 48 24.5
	ES	50 04.0
ALQ	E(P)	09 54 17.0
BOZ	EP	09 55 22.0
EUR	EP	09 55 25.2
SEP 22		
COL	E(P)	12 12 18.3
SEP 22		
H-12 36 57.6		
16.6N 095.5W		
h ABOUT 066KM		
ALQ	EP	12 41 35.0
	E	41 49.0
TUC	EP	12 41 37.0
	E	41 53.6
BCN	EP	12 42 25.0
EUR	EP	12 42 53.4
BOZ	E(P)	12 43 19.0
COL	EP	12 46 55.0
	E	47 07.1
SEP 22		
COL	EP	13 26 42.0
SEP 22		
H-13 27 29.7		
13.3N 089.7W		
h ABOUT 078KM		
EUR	EP	13 34 17.9
BOZ	EP	13 34 35.0
SEP 22		
BCN	IP C	14 46 42.3
	IS	46 44.3
SEP 22		
BOZ	EP	15 50 54.5
SEP 22		
EUR	EP	16 09 31.6
SEP 22		
COL	IP	16 27 48.7
SEP 22		
EUR	EP	17 27 14.3
SEP 22		
COL	EP	18 40 52.0
SEP 22		
COL	IP	18 50 32.5
SEP 22		
ALQ	EP	19 54 56.0
	E(S)	55 32.0
SEP 22		
COL	EP	21 37 07.0
SEP 22		
TUC	EP	21 47 51.7
	EL	48 11.5
ALQ	IP	21 48 23.0
	E	49 02.0
SEP 22		
EUR	EP	22 03 45.8
SLC	EP	22 03 51.2
	IS	04 15.8

Date and Station	Phase (GCT) h m s
SEP 22	
EUR IP	22 08 59.8
E(S)	09 37.8
BCN E(P)	22 09 10.0
EL	10 03.5
SEP 22	
EUR EP	22 33 07.4
E(S)	34 03.9
SEP 22	
COL EP	22 35 03.3
SEP 22	
EUR EP	22 38 00.0
SEP 22	
BCN IP	22 59 46.7
IS	59 58.5
SEP 22	
ALQ EP	23 24 06.0
E	24 21.5
SEP 23	
HHM EP	00 37 13.5
SEP 23	
EUR EP	00 37 23.0
IL	38 38.2
SEP 23	
BCN IP C	01 08 26.0
SEP 23	
BCN IP C	01 18 59.1
IS	18 59.9
SEP 23	
HHM E(P)	01 29 20.9
SEP 23	
H-01 41 00.8	
34.3N 032.6E	
h ABOUT 061KM	
COL IP	01 53 11.4
HHM EP	01 54 08.8
SEP 23	
GUA EP	02 06 05.5
ES	06 17.5
SEP 23	
HHM E(P)	02 41 38.0
SEP 23	
COL IP	02 47 33.2
SEP 23	
H-02 49 33.3	
13.4S 174.4W	
h ABOUT 301KM	
EUR E(P)	03 00 47.9
COL EP	03 01 13.6
SEP 23	
H-04 59 47.4	
53.6N 163.9W	
h ABOUT 029KM	

Date and Station	Phase (GCT) h m s
COL E(P)	05 03 01.0
ES	05 50.0
HHM EP	05 06 07.6
E	07 25.4
EL	14 03.0
KIP EP	05 06 17.0
ES	11 40.0
EL	14 34.0
ET	40 45.0
HON E(P)	05 06 20.0
ES	11 43.0
EL	14 31.0
BUT E(P)	05 06 22.1
BOZ EP	05 06 31.0
ES	11 56.0
EUR IP	05 06 40.5
I	06 52.5
EPP	07 58.7
E(S)	11 52.8
ESCP	12 55.6
SLC E(P)	05 06 55.1
BCN EP	05 07 07.3
I	07 24.5
E(PP)	08 21.5
ESCP	13 08.2
TUC EP	05 07 47.0
ALQ EP	05 07 52.5
E(PP)	09 39.0
ESCP	13 29.0
GUA E(P)	05 09 34.0
CSC E(P)	05 09 49.0
SJP EP	05 11 54.9
SEP 23	
EUR IP	05 33 01.4
SEP 23	
COL E(P)	06 00 51.0
SEP 23	
KIP E(P)	06 16 54.0
SEP 23	
H-06 18 57.4	
53.7N 163.6W	
h ABOUT 013KM	
COL EP	06 22 14.0
HHM EP	06 25 18.5
EPCP	28 11.7
BOZ EP	06 25 42.0
EPCP	28 20.0
EUR IP	06 25 52.4
E	26 07.6
EPCP	28 23.4
BCN EP	06 26 17.4
E	26 34.0

Date and Station	Phase (GCT) h m s
TUC E(P)	06 26 57.8
ALQ EP	06 27 03.0
EPCP	28 50.0
E	29 05.0
SEP 23	
COL EP	07 47 34.0
SEP 23	
EUR EP	07 51 03.9
SEP 23	
BOZ EP	09 14 39.0
EL	15 18.0
EUR EP	09 15 16.8
HHM EP	09 15 17.8
I	29 13.3
SEP 23	
COL EP	11 01 57.8
E	02 38.5
SEP 23	
H-13 28 05.9	
51.7N 177.6W	
h ABOUT 033KM	
COL IP	13 32 40.3
BOZ EP	13 36 02.0
SEP 23	
BOZ EP	13 51 24.5
SEP 23	
COL E(P)	14 02 07.0
SEP 23	
COL IP	14 48 31.0
SEP 23	
UKI EP	16 30 24.4
SEP 23	
COL EP	16 32 25.6
SEP 23	
UKI E(P)	16 32 06.8
SEP 23	
H-16 37 19.1	
61.6N 150.0W	
h ABOUT 033KM	
COL IP	16 38 12.2
HHM EP	16 42 32.9
EUR EP	16 43 29.6
SEP 23	
HHM IP	16 37 53.2
SEP 23	
H-17 18 12.1	
05.8N 126.4E	
h ABOUT 132KM	
COL IP	17 30 22.3
EUR EP'	17 36 26.2

Date and Station	Phase (GCT) h m s
SEP 23	
GUA EP	17 37 24.9
SEP 23	
COL E(P)	17 58 41.0
SEP 23	
H-18 09 38.3	
35.9N 114.8W	
h ABOUT 015KM	
BCN I(P)	18 09 40.9
EUR IP	18 10 34.3
SLC EP	18 11 03.3
I	11 35.3
ALQ EP	18 11 22.0
E	11 44.5
EL	13 10.5
BOZ EP	18 11 43.0
SEP 23	
COL E(P)	18 14 54.4
SEP 23	
BCN IP D	18 16 27.4
SEP 23	
BCN IP D	18 32 47.1
SEP 23	
EUR IP	18 39 43.8
EL	39 52.3
SEP 23	
HHM IP	18 45 46.5
SEP 23	
ALQ E(P)	19 27 49.0
SEP 23	
COL EP	20 17 18.0
SEP 23	
ALQ E(P)	20 33 53.0
SEP 23	
GUA EP	20 59 39.5
ES	59 49.0
SEP 23	
COL E(P)	21 21 12.0
SEP 23	
BCN EP	21 38 17.0
ES	38 21.5
SEP 23	
ALQ EP	21 41 37.5
E	42 10.5
SEP 23	
SLC EP	22 02 16.8
E	02 28.3
SEP 23	
EUR IP	22 31 33.7
EL	31 43.9
SEP 23	
BOZ EP	22 51 33.0

Date and Station	Phase (GCT)
	h m s
SEP 24	
HHM E(P)	00 48 52.8
SEP 24	
COL EP	01 18 21.8
SEP 24	
COL IP	01 25 45.6
SEP 24	
TUC E(P)	01 48 32.0
BCN E(P)	01 48 59.0
EL	50 04.2
EUR EP	01 49 29.7
EL	51 46.2
SEP 24	
H-02 34 43.2	
60.3N 137.4W	
h ABOUT 066KM	
SIT EP	02 35 36.4
COL EP	02 36 20.0
HHM E(P)	02 39 02.0
EL	44 33.0
BOZ EP	02 39 24.9
EUR IP	02 40 00.3
TUC EP	02 41 14.7
SEP 24	
H-02 39 38.2	
56.5N 157.0W	
h ABOUT 033KM	
EUR EP	02 46 02.7
E	46 37.3
SEP 24	
TUC EP	02 47 33.5
SEP 24	
COL E(P)	03 36 55.0
SEP 24	
EUR EP	04 00 05.3
TUC EP	04 00 05.7
SEP 24	
COL EP	04 30 33.0
SEP 24	
COL E(P)	07 08 28.0
E	08 49.3
SEP 24	
COL E(P)	07 13 10.3
SEP 24	
BCN IP	07 17 25.5
IS	17 27.0
EUR EP	07 18 21.6
E(S)	19 15.4
SEP 24	
COL EP	08 40 34.1

Date and Station	Phase (GCT)
	h m s
SEP 24	
H-09 14 38.6	
5.6S 151.8E	
h ABOUT 035KM	
GUA EP	09 19 11.0
EUR IP	09 28 00.6
BCN EP	09 28 05.5
BOZ EP	09 28 15.5
SEP 24	
BOZ EP	09 25 22.5
SEP 24	
H-09 34 26.5	
60.9N 143.7W	
h ABOUT 007KM	
COL EP	09 35 36.0
HHM E(P)	09 39 13.3
BOZ EP	09 39 45.0
EUR EP	09 40 14.5
TUC E(P)	09 41 27.6
SEP 24	
COL EP	10 53 46.0
SEP 24	
COL EP	11 14 47.4
SEP 24	
TUC E(P)	11 16 06.0
SEP 24	
COL EP	12 24 10.0
SEP 24	
H-12 51 32.0	
38.3N 118.4W	
h ABOUT 015KM	
EUR IP	12 52 10.5
BCN E(P)	12 52 32.0
EL	53 20.0
SEP 24	
COL EP	13 29 04.0
SEP 24	
COL EP	13 31 43.0
SEP 24	
H-13 59 36.8	
43.5N 127.5W	
h ABOUT 014KM	
UKI EP	14 00 59.3
EUR IP	14 01 57.5
HHM IP C	14 02 09.2
EL	05 42.9
BUT E(P)	14 02 11.0
E	02 20.0
EL	06 06.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	14 02 21.0
EL	05 16.0
SLC EP	14 02 28.9
BCN EP	14 02 37.5
TUC IP D	14 03 41.7
E(S)	07 00.0
ALQ IP C	14 03 54.0
E	04 02.0
COL IP	14 04 56.0
SJP EP	14 09 23.5
SEP 24	
COL IP	14 08 36.2
SEP 24	
H-14 34 48.0	
20.7N 144.6E	
h ABOUT 146KM	
COL EP	14 44 52.0
HHM EP	14 46 53.7
EpP	47 27.9
BUT EP	14 47 02.0
EUR IP	14 47 04.0
EpP	47 43.6
BOZ EP	14 47 06.5
EpP	47 44.5
TUC E(P)	14 47 36.7
EpP	48 14.0
ALQ E(P)	14 47 46.0
SEP 24	
BCN IP	14 38 10.5
IS	38 12.2
SEP 24	
COL EP	16 27 06.0
SEP 24	
HHM E(P)	16 29 58.4
BOZ E(P)	16 30 25.0
SEP 24	
TUC EP	16 32 45.0
SEP 24	
TUC E(P)	16 47 25.3
SEP 24	
COL EP	17 07 31.6
SEP 24	
H-17 59 53.4	
40.3N 141.6E	
h ABOUT 104KM	
COL IP	18 08 10.3
BOZ EP D	18 11 09.0
ALQ EP	18 12 06.0

Date and Station	Phase (GCT)
	h m s
SEP 24	
BOZ E(P)	18 49 02.5
SEP 24	
BOZ IP	19 13 39.2
SEP 24	
BOZ IP C	21 31 21.5
IS	31 27.2
SEP 24	
ALQ E(P)	22 48 15.0
SEP 24	
BOZ EP	22 57 58.2
SEP 24	
H-23 10 15.5	
05.5S 151.5E	
h ABOUT 092KM	
COL E(P)	23 22 31.7
SEP 24	
H-23 37 23.5	
51.5N 177.1W	
h ABOUT 049KM	
COL EP	23 41 55.0
HHM EP	23 44 52.2
BOZ IP	23 45 14.5
I	45 34.4
TUC EP	23 46 22.5
E	46 33.2
ALQ EP	23 46 30.0
E(pP)	47 43.0
SEP 25	
COL EP	00 08 13.1
SEP 25	
H-01 54 17.6	
13.3N 089.4W	
h ABOUT 094KM	
TUC EP	01 59 54.3
SEP 25	
TUC E(P)	02 06 43.0
SEP 25	
BOZ E(P)	02 34 52.0
SEP 25	
COL EP	03 44 51.5
SEP 25	
H-04 55 21.6	
57.5N 144.5W	
h ABOUT 033KM	
COL EP	04 57 11.0
HHM EP	04 59 59.2
BOZ E(P)	05 00 24.5
SEP 25	
BOZ EP	05 14 12.0

Date and Station	Phase (GCT)
	h m s
SEP 25	
H-05 21 33.0	
52.1N 174.7W	
h ABOUT 033KM	
COL EP	05 25 52.0
HHM E(P)	05 28 50.0
TUC E(P)	05 30 25.3
ALQ E(P)	05 30 35.0
SEP 25	
COL E(P)	05 41 49.8
SEP 25	
H-06 33 35.1	
8.9S 108.4W	
h ABOUT 033KM	
COL EP	06 45 38.9
SEP 25	
HHM E(P)	07 27 34.8
SEP 25	
BOZ EP	07 32 43.8
IS	33 08.6
SEP 25	
H-07 52 04.8	
16.0N 093.4W	
h ABOUT 033KM	
TUC EP	07 57 04.0
SEP 25	
COL EP	08 39 14.2
SEP 25	
COL E(P)	08 51 04.5
E	51 27.1
SEP 25	
BOZ EP	09 34 00.0
SEP 25	
GUA E(P)	10 48 59.5
SEP 25	
TUC E(P)	13 47 27.2
SEP 25	
H-14 33 51.4	
8.9S 108.3W	
h ABOUT 033KM	
EUR IP	14 42 34.5
SEP 25	
COL EP	14 39 00.4
SEP 25	
H-14 46 31.9	
18.9N 145.7E	
h ABOUT 151KM	
GUA EP	14 47 51.0
COL EP	14 56 45.1
EUR IP	14 58 49.5

Date and Station	Phase (GCT)
	h m s
SEP 25	
ALQ E(P)	15 34 39.0
SEP 25	
H-15 42 17.9	
50.3N 176.6E	
h ABOUT 030KM	
COL EP	15 47 25.1
EPCP	51 11.5
HON E(S)	15 55 03.0
EL	58 16.0
KIP EP	15 49 12.0
UKI E(P)	15 50 18.0
HHM EP	15 50 22.2
EPCP	52 09.4
BOZ IP D	15 50 43.5
IpP	50 54.0
EUR IP	15 50 50.8
ES	57 55.1
SLC E(P)	15 51 00.9
E	51 06.2
TUC EP	15 51 48.3
E(pP)	52 00.0
ALQ IP	15 51 57.0
EpP	52 07.0
E(PCP)	52 56.0
SJP IP	15 55 27.0
IpP	55 37.0
SEP 25	
TUC EP	16 00 09.6
SEP 25	
H-16 32 22.7	
56.7N 152.8W	
h ABOUT 033KM	
COL IP	16 34 26.0
EUR EP	16 38 25.9
SEP 25	
H-17 24 44.9	
53.6N 163.9W	
h ABOUT 033KM	
COL EP	17 28 06.3
HHM E(P)	17 31 17.2
EUR IP	17 31 37.6
TUC EP	17 32 44.5
ALQ E(P)	17 33 01.0
SEP 25	
COL EP	17 27 34.8
SEP 25	
COL IP	18 31 03.8

Date and Station	Phase (GCT)
	h m s
SEP 25	
BHP IP	18 33 08.0
IS	33 50.0
SEP 25	
TUC EP	19 40 13.5
EL	40 33.4
ALQ E(P)	19 40 45.0
E(S)	41 25.0
SEP 25	
H-20 28 33.5	
3.8S 139.0E	
h ABOUT 171KM	
COL EP	20 40 57.2
SEP 25	
BOZ EP	22 00 28.5
IS	00 41.0
SEP 25	
H-23 27 49.7	
30.7S 179.9W	
h ABOUT 424KM	
GUA EP	23 36 42.1
TUC EP	23 40 08.3
EUR IP	23 40 11.6
EpP	41 48.0
COL E(P)	23 40 41.1
EpP	42 17.3
SEP 25	
TUC E(P)	23 56 33.2
SEP 26	
EUR EP	00 35 44.6
EL	36 21.1
SEP 26	
H-00 46 02.8	
30.1N 080.7E	
h ABOUT 050KM	
COL EP	00 57 59.0
SIT EP	00 58 51.5
EUR EP	01 00 26.8
EP'	04 28.8
ALQ EP'	01 04 41.0
TUC EP'	01 04 44.8
SEP 26	
UKI EP	00 54 25.0
SEP 26	
COL EP	01 59 06.2
SEP 26	
H-03 38 32.7	
17.7S 173.3W	
h ABOUT 033KM	
BCN E(P)	03 50 23.5
E	50 33.5

Date and Station	Phase (GCT)
	h m s
TUC EP	03 50 28.3
EUR IP	03 50 29.1
E(PP)	53 23.6
ALQ EP	03 50 53.0
HHM EP	03 50 58.6
BOZ EP	03 51 02.0
COL IP	03 51 04.0
SEP 26	
TUC E(P)	04 03 11.2
SEP 26	
H-06 29 01.4	
81.0N 005.1W	
h ABOUT 024KM	
COL EP	06 35 35.8
EUR EP	06 38 28.4
TUC EP	06 39 13.2
SEP 26	
COL E(P)	06 54 42.9
SEP 26	
COL EP	07 41 21.0
SEP 26	
ALQ EP	10 24 24.0
E	24 28.0
SEP 26	
TUC E(P)	10 32 42.8
SEP 26	
HON EP	10 37 13.0
FS	37 45.0
KIP IP	10 37 15.5
ES	37 45.0
SEP 26	
COL E(P)	12 26 36.0
SEP 26	
BOZ E(P)	12 41 21.7
SEP 26	
HHM EP	12 44 08.8
SEP 26	
COL E(P)	14 43 16.2
SEP 26	
ALQ EP	16 46 53.0
SEP 26	
TUC E(P)	18 07 04.5
SEP 26	
EUR EP	18 41 53.6
EL	42 04.3
SEP 26	
BOZ E(P)	19 01 02.0
SEP 26	
TUC E(P)	20 18 41.0

Date and Station	Phase	Phase (GCT) h m s
SEP 26		
BOZ	EP	20 44 34.8
SLC	EP	20 44 57.2
	ES	45 14.9
EUR	EP	20 45 42.0
	E(S)	46 29.7
SEP 26		
BOZ	EP	21 13 10.5
SEP 26		
BOZ	IP	21 39 11.7
	IS	39 21.5
SEP 26		
SLC	E(P)	22 16 14.3
	E	16 27.4
EUR	E(P)	22 17 14.9
SEP 26		
TUC	EP	22 55 11.1
SEP 26		
H-22 55 14.8		
4.9S 153.5E		
h ABOUT 034KM		
GUA	E(P)	22 59 39.5
KIP	EP	23 04 44.0
HON	ES	23 12 23.0
	EL	20 08.0
COL	EP	23 07 30.0
	I	07 51.2
EUR	E(P)	23 08 28.4
	I	08 52.4
	E(PP)	12 14.8
	EPKKP	25 36.2
	EP'P'	33 44.2
HHM	EP	23 08 39.0
BCN	E	23 08 56.0
	E	09 05.0
	EPP	12 32.8
SEP 26		
TUC	E(P)	23 25 19.0
SEP 27		
COL	E(P)	00 37 38.1
SEP 27		
TUC	EP	00 58 08.5
	E	59 03.1
SEP 27		
H-01 27 05.7		
24.9N 140.5E		
h ABOUT 033KM		
COL	EP	01 37 09.6
EUR	IP	01 39 36.2
BOZ	EP	01 39 36.7
SEP 27		
H-03 40 56.8		
44.1N 149.0E		
h ABOUT 035KM		
COL	EP	03 48 30.0
BOZ	EP	03 51 40.9
EUR	IP	03 51 47.9
TUC	EP	03 52 36.6
ALQ	EP	03 52 41.0
SEP 27		
ALQ	EP	03 50 58.0
SEP 27		
H-06 36 25.3		
16.1S 176.0W		
h ABOUT 332KM		
TUC	E(P)	06 47 54.0
EUR	(P)	06 47 54.2
COL	IP	06 48 17.2
SEP 27		
H-07 53 53.4		
2.2N 126.5E		
h ABOUT 070KM		
COL	EP	08 06 27.7
EUR	EP'	08 12 16.8
SEP 27		
COL	IP	09 21 46.3
SEP 27		
COL	IP	09 32 08.0
SEP 27		
BCN	IP	09 41 04.5
	ES	41 06.2
SEP 27		
H-09 53 36.6		
02.3N 126.7E		
h ABOUT 100KM		
COL	E(P)	10 06 08.4
EUR	EP'	10 11 59.3
BOZ	EP'	10 12 01.7
SEP 27		
COL	EP	10 04 41.0
SEP 27		
COL	IP	11 52 55.0
SEP 27		
EUR	IP	11 53 54.2
SEP 27		
H-13 24 23.9		
28.3S 178.3W		
h ABOUT 220KM		
TUC	EP	13 36 51.0
	EPP	37 47.6
EUR	IP	13 36 54.6
BOZ	E(P)	13 37 23.7
SEP 27		
COL	E(P)	13 48 16.3
SEP 27		
COL	EP	15 19 28.3
SEP 27		
H-15 24 17.2		
11.3S 116.6E		
h ABOUT 033KM		
EUR	EP'	15 43 20.0
BOZ	EP'	15 43 26.2
SEP 27		
H-15 50 54.7		
56.6N 152.0W		
h ABOUT 027KM		
COL	EP	15 52 58.0
	EL	55 06.0
UKI	E(P)	15 56 24.6
BOZ	E(P)	15 56 38.4
	E	56 46.8
EUR	IP	15 56 55.8
SLC	EP	15 57 15.8
BCN	EP	15 57 25.0
	ESCP	16 03 54.0
HON	E(PP)	15 59 23.0
	IS	16 03 34.0
	EL	05 42.0
KIP	EP	15 57 50.0
	EPP	59 07.0
	ES	16 03 32.0
	EL	05 38.0
	ET	34 41.0
TUC	IP D	15 58 07.2
	E(S)	16 03 55.0
ALQ	EP	15 58 08.0
	E	58 17.0
CSC	EP	16 00 06.0
SEP 27		
TUC	E(P)	18 16 33.6
	E	16 58.0
	EL	17 45.0
SEP 27		
ALQ	E(P)	18 20 06.5
SEP 27		
TUC	E(P)	19 07 13.3
SEP 27		
H-22 01 40.2		
05.5S 151.6E		
h ABOUT 050KM		
GUA	EP	22 06 12.0
COL	E(P)	22 13 58.5
BOZ	EP	22 15 15.8
SEP 27		
SLC	EP	22 18 08.5
SEP 27		
TUC	E(P)	22 32 15.0
ALQ	E(P)	22 33 25.0
SEP 27		
SLC	E(P)	22 34 50.5
	IS	35 18.9
SEP 27		
H-22 58 29.3		
21.4S 068.7W		
h ABOUT 132KM		
CSC	E(P)	23 07 57.0
	EPP	08 28.0
ALQ	IP D	23 09 07.0
	EPP	09 39.0
	ESP	09 55.0
TUC	IP D	23 09 10.2
	ESP	09 56.2
BCN	EP	23 09 41.2
	EPP	10 14.0
	ESP	10 29.2
BOZ	EP	23 10 10.6
	EPP	10 44.5
BUT	EP	23 10 15.9
	EPP	10 48.4
SEP 27		
BOZ	EP	23 06 56.2
SEP 28		
TUC	E(P)	01 02 45.2
SEP 28		
H-01 05 35.2		
10.5N 060.1W		
h ABOUT 063KM		
SJP	EP	01 07 53.0
ALQ	EP D	01 14 15.0
	E	14 21.5
RCD	EP	01 14 25.0
TUC	EP	01 14 36.4
BUT	EP	01 15 16.1
COL	EP	01 17 37.7
SEP 28		
COL	E(P)	03 28 15.1

Date and Station	Phase (GCT)
	h m s
SEP 28	
BUT EP	04 29 30.6
E	29 56.1
SEP 28	
H-05 04 55.5	
1.2S 024.1W	
h ABOUT 037KM	
CSC EP	05 15 27.0
RCD EP	05 17 18.0
ALQ IP D	05 17 26.0
EPCP	17 30.0
TUC EP	05 17 42.4
SLC EP	05 17 49.1
BOZ EP	05 17 49.3
E	17 58.0
EPP	21 20.0
BUT EP	05 17 51.8
BCN EP	05 18 00.5
COL I(P)	05 18 59.0
I	20 07.6
SEP 28	
H-05 39 34.8	
40.0S 074.1W	
h ABOUT 033KM	
TUC EP	05 51 39.0
ALQ IP C	05 51 44.0
E	51 54.0
BOZ EP	05 52 39.8
SEP 28	
H-06 51 05.3	
36.3N 071.6E	
h ABOUT 118KM	
COL E(P)	07 02 34.7
BOZ E(P)	07 04 58.5
SEP 28	
COL EP	07 01 30.0
SEP 28	
H-07 16 02.9	
15.2N 094.1W	
h ABOUT 047KM	
ALQ E(P)	07 21 00.0
SEP 28	
RCD E(P)	08 24 00.0
SEP 28	
COL EP	11 57 23.0
SEP 28	
H-12 53 55.1	
22.0S 179.4W	
h ABOUT 548KM	
TUC EP	13 05 33.5

Date and Station	Phase (GCT)
	h m s
ALQ EP	13 05 54.0
COL E(P)	13 05 54.9
SEP 28	
COL EP	15 29 33.0
SEP 28	
H-15 43 13.6	
43.5N 127.1W	
h ABOUT 033KM	
UKI E(P)	15 44 29.4
EUR IP	15 45 28.2
BUT E(P)	15 45 47.9
BOZ EP	15 45 53.8
BCN EP	15 46 08.5
TUC EP	15 47 12.6
E(S)	50 23.0
RCD EP	15 47 17.0
ALQ EP	15 47 24.5
E	47 36.0
COL IP	15 48 29.8
SEP 28	
RCD EP	15 43 53.0
SEP 28	
ALQ E(P)	15 45 01.0
SEP 28	
H-16 25 54.6	
34.0N 141.2E	
h ABOUT 071KM	
GUA EP	16 30 29.5
COL EP	16 34 55.3
BOZ EP	16 37 41.3
EUR IP	16 37 46.2
SEP 28	
TUC EP	17 20 13.2
EL	21 20.0
ALQ E(P)	17 21 15.0
E	23 52.0
EUR EP	17 22 00.0
E	25 10.0
IL	25 47.9
SEP 28	
ALQ IP C	17 53 40.5
E(S)	54 20.5
SEP 28	
ALQ IP	18 09 40.5
E(S)	10 18.5
SEP 28	
H-18 30 20.2	
61.0N 147.4W	
h ABOUT 089KM	

Date and Station	Phase (GCT)
	h m s
COL IP	18 31 19.6
BOZ EP	18 35 45.5
EUR IP	18 36 13.0
EPCP	39 21.3
BCN EP	18 36 44.2
E	36 56.5
ALQ EP	18 37 21.0
EPP	39 36.0
TUC EP	18 37 24.7
SEP 28	
BCN E(P)	21 45 39.0
EL	46 14.8
SEP 28	
H-22 39 45.6	
02.5S 138.7E	
h ABOUT 082KM	
COL EP	22 52 14.2
SEP 28	
EUR IP	22 57 07.1
I(S)	59 17.5
TUC E(P)	22 59 11.1
SEP 28	
TUC EP	23 12 52.1
SEP 28	
BUT IP	23 20 53.7
SEP 28	
BUT EP	23 53 53.1
IL	54 26.1
BOZ EP	23 53 54.7
EL	54 30.2
EUR IP	23 54 27.9
EL	55 36.9
SEP 28	
H-23 59 30.5	
07.5S 146.7E	
h ABOUT 152KM	
COL IP	00 11 57.5
SEP 29	
EUR IP	00 21 57.2
EL	22 38.2
SEP 29	
H-02 00 01.7	
57.8N 149.5W	
h ABOUT 044KM	
COL EP	02 01 46.0
SEP 29	
HHM EP	04 30 08.9
SEP 29	
H-05 30 59.5	
18.1S 175.4W	
h ABOUT 197KM	

Date and Station	Phase (GCT)
	h m s
COL EP	05 43 15.0
SEP 29	
TUC E(P)	06 18 56.5
E	19 04.0
SEP 29	
H-06 30 30.6	
15.8N 093.3W	
h ABOUT 033KM	
ALQ IP	06 35 29.0
E	35 47.0
TUC EP	06 35 34.0
SEP 29	
COL EP	07 21 33.0
SEP 29	
COL EP	08 43 05.0
SEP 29	
H-13 47 24.3	
33.3N 141.9E	
h ABOUT 041KM	
COL EP	13 56 31.0
HHM EP	13 58 59.7
BOZ EP	13 59 15.8
EUR EP	13 59 20.0
BCN EP	13 59 34.0
TUC EP	13 59 58.9
SEP 29	
H-14 00 14.9	
20.4S 174.4W	
h ABOUT 029KM	
KIP EP	14 08 24.0
ES	15 00.0
HON EP	14 08 25.0
ES	15 01.0
EL	18 22.0
GUA IP	14 09 27.0
ES	17 20.0
BCN EP	14 12 20.5
TUC IP C	14 12 24.6
IPP	12 33.4
E(S)	22 09.0
EUR IP	14 12 27.7
IPP	12 36.7
SLC E(P)	14 12 30.7
I	12 44.6
ALQ IP C	14 12 48.0
EPP	12 57.0
HHM EP	14 12 56.7
BUT E(P)	14 12 58.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	14 12 58.3
E(S)	23 28.0
COL IP	14 13 00.4
SEP 29	
BCN IP	14 29 56.6
IS	29 58.0
SEP 29	
EUR IP	15 23 14.1
HHM EP	15 23 25.4
SEP 29	
COL EP	15 24 15.0
SEP 29	
EUR EP	17 11 40.2
SEP 29	
EUR IP	18 43 54.8
SEP 29	
H-18 46 15.3	
8.6S 074.5W	
h ABOUT 170KM	
TUC EP	18 55 20.0
SEP 29	
COL E(P)	21 54 21.8
SEP 29	
SLC EP	21 57 43.4
IS	58 11.4
EUR EP	21 58 31.8
SEP 29	
SLC EP	23 12 27.0
SEP 29	
EUR IP	23 17 03.9
EL	17 18.4
SEP 30	
TUC E(P)	01 06 38.5
SEP 30	
TUC E(P)	01 11 10.4
SEP 30	
COL EP	02 13 54.0
SEP 30	
H-04 39 44.0	
34.5N 023.4E	
h ABOUT 043KM	
COL E(P)	04 51 54.0
HHM EP	04 52 38.4
SEP 30	
BCN IP C	05 01 21.2
IS	01 22.5
EUR EP	05 02 17.9
I	03 11.8
TUC E(P)	05 02 26.9

Date and Station	Phase (GCT)
	h m s
SEP 30	
TUC EP	05 10 58.7
E	11 13.2
SEP 30	
KIP EP	05 32 10.0
SEP 30	
COL E(P)	05 58 53.1
SEP 30	
H-06 25 54.2	
00.5N 126.6E	
h ABOUT 077KM	
COL EP	06 38 35.7
EUR EP'	06 44 19.5
SEP 30	
H-08 23 12.2	
32.5S 071.6W	
h ABOUT 033KM	
TUC EP	08 34 48.4
EUR I(P)	08 35 43.0
BOZ E(P)	08 35 49.5
SEP 30	
EUR EP	08 34 01.7
BCN E(P)	08 34 44.0
SEP 30	
TUC E(P)	09 01 06.3
SEP 30	
COL EP	09 01 58.8
SEP 30	
COL EP	09 07 09.0
SEP 30	
TUC E(P)	09 11 08.5
SEP 30	
H-10 38 28.9	
00.1S 097.8E	
h ABOUT 033KM	
EUR EP'	10 57 39.0
SEP 30	
COL EP	12 27 08.6
SEP 30	
TUC EP	12 51 42.0
SEP 30	
BCN IP C	13 23 06.6
SEP 30	
BHP I	13 40 35.0
SEP 30	
COL EP	14 35 52.0
SEP 30	
H-14 46 28.9	
11.6S 166.5E	
h ABOUT 118KM	

Date and Station	Phase (GCT)
	h m s
COL EP	14 58 43.6
SEP 30	
COL EP	15 46 02.0
SEP 30	
HHM IP	16 08 41.3
IS	00 45.5
SEP 30	
BHP IP	17 11 38.0
SEP 30	
ALQ EP	17 31 26.0
E	31 33.5
E	32 13.0
SEP 30	
H-17 51 34.8	
35.3N 118.0W	
h ABOUT 033KM	
BCN EP D	17 52 15.5
I	52 25.0
I	53 00.7
EL	53 06.9
EUR IP	17 52 43.0
E(S)	53 33.2
TUC E(P)	17 53 09.5
ALQ E(P)	17 53 55.0
SEP 30	
H-19 14 08.0	
35.6N 139.3E	
h ABOUT 079KM	
GUA EP	19 19 02.0
COL EP	19 23 04.0
BOZ EP	19 25 53.3
EUR IP	19 26 00.2
ALQ EP	19 26 46.0
E(pP)	27 03.0
SEP 30	
ALQ IP C	20 02 45.2
E(S)	03 16.0
SEP 30	
H-20 27 24.1	
58.4N 151.3W	
h ABOUT 017KM	
COL IP	20 29 04.5
HHM EP	20 32 40.0
EUR IP	20 33 29.2
ALQ EP	20 34 40.0
TUC EP	20 34 40.5
SEP 30	
SLC EP	20 57 56.0

Date and Station	Phase (GCT)
	h m s
SEP 30	
ALQ E(P)	21 45 10.0
E(S)	45 51.5
SEP 30	
SLC EP	21 58 49.0
SEP 30	
TUC IP	22 00 53.5
EL	01 10.5
SEP 30	
EUR IP	22 28 38.5
EL	28 54.5