USCGS
.40

SEISMOLOGICAL BULLETIN

COAST & GEODETIC SURVEY
NOV 29 1965
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August, 1964

MSI - 284

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U. S. DEPARTMENT OF COMMERCE

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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

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COAST AND GEODETIC SURVEY—WASHINGTON

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March 4, 2011

1964

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

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

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

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

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

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

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

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

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
1	00 05 48*	73.0 N	6.4 E	33	4.3	GREENLAND SEA.
1	00 47 09*	36.7 N	70.3 E	149		HINDU KUSH REGION.
1	01 00 50.2	73.0 N	6.3 E	33		GREENLAND SEA.
1	02 27 13.6	20.0 S	179.8 E	553	4.4	SOUTH OF FIJI ISLANDS.
1	08 55 49*	11.8 N	87.0 W	88	4.3	NEAR COAST OF NICARAGUA.
1	09 52 51.3	5.5 S	131.4 E	33	4.6	BANDA SEA.
1	13 54 54.8	27.7 S	70.9 W	118	4.5	NEAR COAST OF NORTHERN CHILE.
1	18 11 52*	32.7 S	71.5 W	70	4.4	NEAR COAST OF CENTRAL CHILE.
1	21 33 28*	19.9 S	66.4 E	33		MASCARENE ISLANDS REGION.
1	22 12 04*	28.1 S	70.4 W	33	4.4	CENTRAL CHILE.
2	00 15 34.5	52.9 N	162.3 E	33	5.0	OFF EAST COAST OF KAMCHATKA.
2	02 20 19*	55.9 S	27.7 W	86	4.9	SOUTH SANDWICH ISLANDS REGION.
2	03 04 16.9	56.1 N	156.1 W	33	5.6	ALASKA PENINSULA.
2	04 00 45.1	10.9 N	86.3 W	32	4.7	OFF COAST OF COSTA RICA.
2	06 13 07*	59.8 N	146.1 W	28	3.8	GULF OF ALASKA.
2	07 03 11.4	3.8 S	123.2 E	37	5.4	CELEBES.
2	08 10 38.7	0.1 N	123.9 E	110		NORTHERN CELEBES.
2	08 14 06*	17.3 S	69.8 W	5	4.2	PERU-BOLIVIA BORDER REGION.
2	08 36 16.9	56.2 N	149.9 W	31	5.4	GULF OF ALASKA. MAG. 6 (PAS), 4 3/4-5 (BRK), 5 1/4 (PAL). FELT AT HOMER.
2	10 40 23.7	43.0 N	13.0 E	33	4.5	CENTRAL ITALY. SLIGHT DAMAGE AT FOLIGNO AND MACERATA.
2	13 29 07.3	39.1 N	118.1 W	15	4.0	NEVADA.
2	13 57 45.0	27.5 S	70.3 W	61	4.2	NEAR COAST OF NORTHERN CHILE.
2	15 33 31*	56.5 N	149.5 W	33	4.2	GULF OF ALASKA.
2	15 56 48.4	44.7 N	151.5 E	33	4.1	KURILE ISLANDS REGION.
2	16 22 42*	83.2 N	119.5 E	33	4.3	NORTH OF SEVERNAYA ZEMLYA.
2	21 39 54.3	49.9 N	156.8 E	58	4.8	KURILE ISLANDS.
3	01 48 23.3	19.8 N	70.7 W	7	5.2	DOMINICAN REPUBLIC REGION. MAG. 4 3/4 (BRK), 5 (PAL).
3	02 32 14.6	60.0 N	148.0 W	18	4.2	KENAI PENINSULA, ALASKA.
3	04 05 07.5	46.6 N	153.5 E	33	4.1	KURILE ISLANDS.
3	06 11 38*	60.2 N	144.6 W	20	4.1	SOUTHERN ALASKA.
3	07 44 44.3	22.6 N	121.3 E	33	5.4	TAIWAN REGION.
3	13 11 47*	28.1 S	69.5 W	71	4.2	CHILE-ARGENTINA BORDER REGION.
3	16 56 18.2	56.7 N	152.4 W	20	4.1	KODIAK ISLAND REGION.
3	17 08 11.2	8.3 S	118.7 E	33		SUMBAWA ISLAND REGION.
3	18 54 54.9	53.8 N	132.1 W	33	4.2	QUEEN CHARLOTTE ISLANDS REGION.
3	21 29 40.8	3.5 N	78.0 W	65	4.3	SOUTH OF PANAMA.
4	03 36 42.0	2.5 S	139.8 E	33	5.7	NEAR N. COAST OF WEST NEW GUINEA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
4	05 44 05.6	56.9 N	151.0 W	33	3.8	KODIAK ISLAND REGION.
4	07 22 51.6	39.3 N	118.1 W	15	3.6	NEVADA. MAG. 3 1/2-3 3/4 (BRK).
4	07 26 19.5	27.0 S	71.7 W	58		NEAR COAST OF NORTHERN CHILE.
4	11 13 25*	39.7 N	106.0 W	33	4.0	COLORADO.
4	12 38 15.3	15.9 S	174.5 W	134	4.2	TONGA ISLANDS.
4	13 06 22*	5.1 S	78.6 W	33	4.1	NORTHERN PERU.
4	17 24 29.2	46.5 N	151.1 E	101	5.9	KURILE ISLANDS. MAG. 5 1/2-5 3/4 (BRK).
4	21 03 07*	15.7 S	70.1 W	248	3.7	SOUTHERN PERU.
4	23 18 51.1	34.3 N	46.0 E	29		WESTERN IRAN.
5	01 47 39.1	17.8 S	176.4 W	16	4.9	FIJI ISLANDS REGION.
5	02 54 38.2	14.5 N	92.1 W	33	3.9	NEAR COAST OF CHIAPAS, MEXICO.
5	04 24 51.3	27.1 N	128.1 E	144	5.1	RYUKYU ISLANDS.
5	05 08 04.0	19.3 N	121.0 E	18	4.6	PHILIPPINE ISLANDS REGION.
5	06 47 27.7	44.4 S	72.4 W	33	4.8	NEAR COAST OF SOUTHERN CHILE.
5	08 25 45.7	31.1 S	69.0 W	33	4.6	SAN JUAN PROVINCE, ARGENTINA.
5	09 48 25.4	15.1 S	177.7 W	398	4.8	FIJI ISLANDS REGION.
5	11 01 16.5	39.0 S	74.5 W	26	5.1	OFF COAST OF CENTRAL CHILE.
5	11 06 02.6	32.1 S	179.8 E	235	5.8	SOUTH OF KERMADEC ISLANDS. MAG. 6 3/4 (PAS), 5 1/2 (BRK).
5	21 59 23*	29.0 N	114.0 W	16	4.3	BAJA CALIFORNIA.
5	22 23 13.0	41.1 S	74.9 W	33	6.1	OFF COAST OF SOUTHERN CHILE. MAG. 6 3/4 (PAS), 6 1/2 (BRK). FELT.
6	02 33 39.5	31.5 N	129.9 E	197	5.5	KYUSHU, JAPAN.
6	07 02 52*	20.5 S	68.8 W	74	4.2	CHILE-BOLIVIA BORDER REGION.
6	07 05 49*	56.3 N	149.8 W	33	4.5	GULF OF ALASKA.
6	07 12 01.1	9.1 S	120.8 E	58	5.6	SUMBA ISLAND REGION.
6	10 46 28.9	43.4 N	126.7 W	33	5.3	OFF COAST OF OREGON.
6	13 00 13*	50.6 N	179.5 E	33	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
6	13 11 31*	60.4 N	145.8 W	33	4.0	SOUTHERN ALASKA.
6	13 41 36.5	4.2 S	140.5 E	50		WEST NEW GUINEA.
6	16 04 06*	75.7 N	6.8 E	33	4.4	GREENLAND SEA.
6	17 03 28.9	22.5 S	179.5 W	504	5.3	SOUTH OF FIJI ISLANDS.
6	18 24 50.5	56.9 N	152.1 W	39	5.6	KODIAK ISLAND REGION. MAG. 5 (BRK).
6	23 42 45.7	19.2 S	167.6 E	43	5.0	NEW HEBRIDES ISLANDS REGION.
7	02 15 04*	20.2 S	174.6 W	29	4.4	TONGA ISLANDS.
7	03 15 25*	14.5 N	92.0 W	33	3.8	NEAR COAST OF CHIAPAS, MEXICO.
7	05 37 25.1	56.8 N	152.3 W	33	5.2	KODIAK ISLAND REGION.
7	07 08 07*	54.4 N	164.4 W	33	4.6	UNIMAK ISLAND REGION.
7	08 04 58.9	37.5 N	141.3 E	33	4.5	NEAR EAST COAST OF HONSHU, JAPAN.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
7	08 08 49.9	27.8 S	66.4 W	162	4.4	CATAMARCA PROVINCE, ARGENTINA.
7	08 21 03*	11.8 N	86.9 W	130	4.7	NEAR COAST OF NICARAGUA.
7	15 31 18.0	14.0 N	91.9 W	89	5.0	GUATEMALA.
7	17 23 06.8	79.4 N	2.3 W	33	4.1	GREENLAND SEA.
7	17 31 42*	14.7 S	173.0 W	33	4.6	SAMOA ISLANDS REGION.
7	19 57 44*	0.6 N	87.0 W	33	4.3	GALAPAGOS ISLANDS REGION.
8	09 48 35.6	56.7 N	152.4 W	33	5.1	KODIAK ISLAND REGION.
8	14 50 32.2	42.1 N	83.7 E	33	4.7	NORTHERN SINKIANG PROV., CHINA.
8	14 59 41.2	31.7 N	140.2 E	110	5.7	SOUTH OF HONSHU, JAPAN. MAG. 4 3/4-5 (BRK).
8	15 45 10.9	12.5 N	87.8 W	63	5.8	NEAR COAST OF NICARAGUA. FELT AT SAN SALVADOR.
8	18 42 59*	20.9 S	176.7 W	354	4.5	FIJI ISLANDS REGION.
8	20 06 51*	18.0 N	74.0 W	10	5.1	HAITI REGION.
8	20 59 43.6	17.5 S	175.0 W	193	4.8	TONGA ISLANDS.
9	01 48 12.8	17.8 S	178.6 W	537	5.6	FIJI ISLANDS REGION.
9	03 12 57.3	6.2 S	147.9 E	54	4.3	EAST NEW GUINEA REGION.
9	05 20 32.7	53.4 N	153.4 E	511	4.4	SEA OF OKHOTSK.
9	05 30 46.9	10.3 S	161.3 E	85	5.0	SOLOMON ISLANDS.
9	06 31 29.3	17.1 S	173.1 W	33	4.5	TONGA ISLANDS.
9	07 16 13*	6.0 N	78.8 W	33	4.2	SOUTH OF PANAMA.
9	07 56 26*	45.1 S	79.2 W	33	4.5	OFF COAST OF SOUTHERN CHILE.
9	08 26 57*	1.7 S	78.8 W	175	3.8	ECUADOR.
9	09 30 26*	41.1 S	83.7 W	33	4.4	WEST CHILE RISE.
9	11 33 26*	60.7 N	145.4 W	33	3.8	SOUTHERN ALASKA.
9	15 31 13.2	5.7 N	72.5 W	75	4.0	COLOMBIA.
9	16 55 41*	16.8 S	168.4 E	33		NEW HEBRIDES ISLANDS.
9	20 06 36.9	0.3 S	125.1 E	59	5.0	MOLUCCA SEA.
9	23 26 43.5	17.5 N	73.7 W	33	5.1	HAITI REGION.
10	01 07 44*	59.8 N	151.8 W	33	4.2	KENAI PENINSULA, ALASKA.
10	01 10 12.4	19.1 N	67.3 W	33	5.5	MONA PASSAGE. MAG. 4 1/2 (BRK).
10	03 54 26.1	6.4 S	154.2 E	166	4.7	SOLOMON ISLANDS.
10	07 34 49.9	16.7 S	70.8 W	92	5.2	SOUTHERN PERU. FELT AT AREQUIPA.
10	14 00 51*	12.4 N	88.3 W	71	4.0	OFF COAST OF CENTRAL AMERICA.
10	14 44 40.1	14.1 S	166.7 E	44		NEW HEBRIDES ISLANDS.
10	16 58 44.0	9.2 N	62.0 W	51	5.5	NEAR COAST OF VENEZUELA. MAG. 4 1/2-4 3/4 (BRK).
10	17 52 02.5	45.1 N	149.9 E	40	5.3	KURILE ISLANDS.
10	18 18 35.6	30.3 N	57.7 E	13	4.5	IRAN.
10	20 16 55.8	44.6 N	148.8 E	33	4.8	KURILE ISLANDS.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
10	21 05 37.9	32.8 S	72.0 W	33	4.7	OFF COAST OF CENTRAL CHILE.
10	21 40 10.4	6.2 S	154.5 E	105	5.7	SOLOMON ISLANDS.
11	01 55 25.0	5.8 S	154.1 E	425	5.3	SOLOMON ISLANDS.
11	05 49 58.7	18.0 S	176.9 W	329	4.3	FIJI ISLANDS REGION.
11	07 44 07*	53.8 N	163.3 E	40	4.2	OFF EAST COAST OF KAMCHATKA.
11	08 13 42*	9.9 N	82.9 W	33	3.8	PANAMA-COSTA RICA BORDER REGION.
11	10 32 02.7	29.9 N	131.4 E	59	4.4	RYUKYU ISLANDS REGION.
11	12 32 00.2	14.7 S	167.8 E	140	4.7	NEW HEBRIDES ISLANDS.
11	12 34 35.6	48.7 N	154.8 E	43	4.8	KURILE ISLANDS.
11	13 35 14*	6.3 N	97.3 E	33	5.1	NICOBAR ISLANDS REGION.
11	14 12 35.9	3.0 N	84.3 W	33	4.6	OFF COAST OF CENTRAL AMERICA.
11	21 42 20*	10.2 S	160.8 E	168	4.9	SOLOMON ISLANDS.
12	02 34 24*	27.2 N	56.4 E	44	4.7	SOUTHERN IRAN.
12	05 04 50.9	39.4 N	112.0 W	15	3.9	UTAH.
12	06 51 49.9	48.9 N	153.7 E	127	5.6	KURILE ISLANDS.
12	12 47 47*	11.4 N	86.1 W	135	4.1	NEAR COAST OF NICARAGUA.
12	19 26 26.1	31.0 N	49.8 E	33	5.1	WESTERN IRAN.
13	00 31 14.1	5.4 S	154.3 E	383	6.0	SOLOMON ISLANDS. MAG. 6 3/4 (PAS), 6 1/2 (BRK).
13	04 20 55*	54.4 N	158.7 E	33	4.2	KAMCHATKA.
13	04 28 23.2	6.0 S	130.4 E	127	5.0	BANDA SEA.
13	06 35 39.0	42.2 N	126.1 W	33	4.9	OFF COAST OF OREGON.
13	08 38 11.4	59.7 N	145.3 W	33	4.2	GULF OF ALASKA.
13	08 50 46*	42.3 N	125.5 W	33	4.9	OFF COAST OF OREGON.
13	10 28 06*	19.2 N	109.0 W	33	4.2	REVILLA GIGEDO ISLANDS REGION.
13	10 38 05.0	34.2 N	25.7 E	33	4.4	CRETE.
13	10 48 35*	19.3 S	177.6 W	551	4.3	FIJI ISLANDS REGION.
13	16 27 35.4	19.5 N	155.4 W	11	4.1	HAWAII REGION. FELT ON HAWAII.
13	16 32 17*	5.9 S	81.1 W	33	4.2	NEAR COAST OF NORTHERN PERU.
13	18 26 30.7	10.5 S	13.3 W	33	5.1	ASCENSION ISLAND REGION.
13	21 51 02*	46.5 N	112.2 W	15	4.1	MONTANA. FELT IN HELENA VALLEY.
14	03 53 41*	16.7 N	95.6 W	33	3.5	OAXACA, MEXICO.
14	07 08 55.9	9.8 S	123.8 E	33		TIMOR.
14	19 25 38.2	0.4 N	79.9 W	102	4.6	NEAR COAST OF ECUADOR.
14	21 27 41.6	7.4 N	36.8 W	33	4.8	CENTRAL MID-ATLANTIC RIDGE. MAG. 4 3/4-5 (PAL).
14	21 48 31.2	18.8 S	168.2 E	26	4.6	NEW HEBRIDES ISLANDS.
15	02 29 28*	50.7 N	179.4 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
15	03 34 50.8	5.5 S	104.1 E	33	5.2	SOUTHERN SUMATRA.

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AUG	H M S	DEG	DEG	KM		
15	04 10 09.3	4.1 S	104.7 E	17		SOUTHERN SUMATRA.
15	08 57 41*	34.3 N	28.0 E	68		EASTERN MEDITERRANEAN SEA.
15	10 03 57.1	10.8 N	81.6 W	33	3.8	NORTH OF PANAMA.
15	14 43 03.1	12.0 N	88.0 W	39	4.0	OFF COAST OF CENTRAL AMERICA.
15	17 38 05.*	44.3 N	110.7 W	33		YELLOWSTONE NATIONAL PARK, WYO.
15	21 22 03.8	6.7 N	73.4 W	175	4.8	NORTHERN COLOMBIA.
16	00 42 13.4	19.8 S	169.5 E	102	4.7	NEW HEBRIDES ISLANDS.
16	02 57 06*	61.6 N	150.2 W	63	4.1	SOUTHERN ALASKA.
16	07 30 12*	13.3 N	87.6 W	60	3.9	HONDURAS.
16	11 08 00.2	5.9 S	151.4 E	54	5.4	NEW BRITAIN REGION.
16	11 40 46.5	40.3 N	142.2 E	74	4.4	NEAR EAST COAST OF HONSHU, JAPAN.
16	12 34 34.8	12.0 N	88.6 W	33	4.3	OFF COAST OF CENTRAL AMERICA.
16	12 38 20.6	62.1 N	147.3 W	56	4.1	CENTRAL ALASKA.
16	15 52 38.7	27.8 N	53.0 E	31		SOUTHERN IRAN.
16	19 40 53.9	15.0 S	175.8 W	332	4.6	TONGA ISLANDS.
16	20 36 00*	52.2 N	170.3 E	33	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
16	21 28 49.1	39.7 N	52.6 E	33	4.8	CASPIAN SEA.
17	00 17 40.9	35.0 N	26.0 E	18	4.8	CRETE.
17	00 59 47*	12.1 S	75.3 W	163	3.9	PERU.
17	08 42 48*	22.0 S	67.0 W	192	4.7	CHILE-BOLIVIA BORDER REGION.
17	09 07 03.8	52.0 N	30.0 W	42	4.9	NORTH ATLANTIC RIDGE.
17	11 45 01.2	18.0 S	178.3 W	648	5.1	FIJI ISLANDS REGION.
17	11 51 19.3	46.3 N	151.9 E	33	4.9	KURILE ISLANDS.
17	12 41 58*	50.0 N	171.8 W	33	4.5	ALEUTIAN ISLANDS REGION.
17	14 42 56.6	24.2 N	94.0 E	184	4.7	BURMA-INDIA BORDER REGION.
17	14 54 01.4	42.6 N	142.8 E	33	5.1	HOKKAIDO, JAPAN REGION.
17	15 15 18.9	72.2 N	1.7 E	33	5.4	NORWEGIAN SEA.
17	16 38 44.4	51.5 N	177.8 E	42	5.4	RAT ISLANDS, ALEUTIAN ISLANDS. MAG. 4 3/4-5 (BRK).
17	16 38 53.4	71.9 N	0.4 W	33	4.2	JAN MAYEN ISLAND REGION.
17	19 05 44*	12.4 N	86.8 W	116	4.5	NICARAGUA.
17	20 17 26.6	27.8 S	70.5 W	33	4.6	NEAR COAST OF NORTHERN CHILE.
17	21 41 21.3	72.5 N	1.8 E	33	4.4	NORWEGIAN SEA.
17	21 41 46*	51.7 N	167.7 W	33	4.9	FOX ISLANDS, ALEUTIAN ISLANDS.
17	22 02 35.1	24.5 S	176.8 W	33	4.5	SOUTH OF FIJI ISLANDS.
17	22 33 43*	33.1 N	115.8 W	14	4.5	SOUTHERN CALIFORNIA. MAG. 4 1/2 (PAS).
17	22 47 32.4	52.1 N	30.1 W	36	5.1	NORTH ATLANTIC RIDGE.
18	00 26 51.8	7.2 S	74.4 W	156	5.3	PERU-BRAZIL BORDER REGION. MAG. 4 1/2-4 3/4 (BRK).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
18	00 33 55*	44.2 N	16.4 E	33	4.4	YUGOSLAVIA.
18	02 13 37*	40.3 N	125.7 W	15	5.0	OFF COAST OF NORTHERN CALIFORNIA. MAG. 3 1/2-3 3/4 (BRK).
18	04 35 43.6	42.8 N	145.3 E	33	4.7	HOKKAIDO, JAPAN REGION.
18	04 44 58.0	26.4 S	71.5 W	8	6.4	OFF COAST OF NORTHERN CHILE. MAG. 6 1/2-6 3/4 (PAS), 5 3/4-6 (BRK).
18	08 47 18*	45.1 N	110.5 W	33	4.2	MONTANA.
18	11 09 43.4	0.5 N	67.2 E	33	5.1	CARLSBERG RIDGE.
18	15 26 11.4	5.7 N	58.0 E	33	5.4	CARLSBERG RIDGE.
19	01 30 57.4	61.2 S	27.8 W	33		SOUTH SANDWICH ISLANDS REGION.
19	08 22 18*	31.3 S	68.5 W	128	4.0	SAN JUAN PROVINCE, ARGENTINA.
19	09 33 10.0	28.2 N	52.6 E	50	5.6	SOUTHERN IRAN.
19	14 00 38*	6.9 S	75.5 W	14	4.4	NORTHERN PERU.
19	15 20 13.9	28.2 N	52.7 E	52	5.6	SOUTHERN IRAN.
19	16 00 00.0	37.2 N	116.1 W	0		37° 09' 32"N. 116° 04' 59"W. NEVADA TEST SITE "ALVA" SHOT ELEVATION 1179.3 METERS (AEC).
19	20 17 02.5	5.7 S	152.8 E	55	4.5	NEW BRITAIN REGION.
19	22 40 17.9	28.4 N	52.7 E	58		SOUTHERN IRAN.
20	00 27 46*	2.3 N	78.5 W	33	4.4	NEAR WEST COAST OF COLOMBIA.
20	02 08 15.8	72.1 N	1.4 E	33	5.1	NORWEGIAN SEA.
20	03 56 29.2	63.9 N	20.5 W	33	4.8	ICELAND. FELT ON ICELAND.
20	04 13 48.1	4.0 S	151.6 E	192	4.3	NEW BRITAIN REGION.
20	04 18 01*	4.1 N	95.4 E	93		NORTHERN SUMATRA.
20	05 08 50.3	28.1 N	52.6 E	47	5.1	SOUTHERN IRAN.
20	05 39 47.7	28.2 N	52.6 E	52	5.5	SOUTHERN IRAN.
20	07 25 09.3	18.0 N	98.4 W	60	4.4	CENTRAL MEXICO.
20	08 26 52*	11.7 N	87.2 W	25	4.3	NEAR COAST OF NICARAGUA.
20	08 32 43.1	29.7 S	177.9 W	80	4.4	KERMADEC ISLANDS REGION.
20	08 37 47.1	14.9 N	60.4 W	65	5.5	WINDWARD ISLANDS.
20	09 12 54*	11.0 N	87.5 W	33	4.2	NEAR COAST OF NICARAGUA.
20	10 31 05.7	72.1 N	1.2 E	33	4.4	NORWEGIAN SEA.
20	12 48 47.7	37.4 S	78.3 E	33		MID-INDIAN RISE.
20	14 03 34.4	61.4 N	147.5 W	35	4.3	SOUTHERN ALASKA.
20	15 11 53*	0.8 S	132.6 E	33		WEST NEW GUINEA REGION.
20	16 17 48.2	60.3 S	27.1 W	33		SOUTH SANDWICH ISLANDS REGION.
20	16 29 58.5	72.3 N	1.7 E	33	5.1	NORWEGIAN SEA.
20	17 30 42.3	3.0 N	128.3 E	178	4.8	NORTH OF HALMAHERA.
20	22 54 48*	28.7 N	52.9 E	80		SOUTHERN IRAN.
21	02 09 41.5	23.0 S	69.0 W	112	4.2	NORTHERN CHILE.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
21	03 29 19*	13.9 N	93.0 W	33	4.4	OFF COAST OF CHIAPAS, MEXICO.
21	06 24 16*	55.0 N	158.2 W	33	4.4	ALASKA PENINSULA.
21	07 59 17.0	28.3 N	52.5 E	54	4.9	SOUTHERN IRAN.
21	10 13 33.4	19.6 S	66.1 W	199	4.7	SOUTHERN BOLIVIA.
21	10 18 32*	17.1 N	95.2 W	33	3.7	OAXACA, MEXICO.
21	16 49 12.9	40.1 N	40.9 E	44	4.6	TURKEY.
21	19 41 38*	30.6 N	113.8 W	15	4.7	GULF OF CALIFORNIA.
21	22 03 51.6	37.0 N	115.1 W	33	3.8	SOUTHERN NEVADA.
21	23 49 13.6	18.7 S	169.1 E	81		NEW HEBRIDES ISLANDS.
21	23 58 56.6	12.2 S	110.5 E	35	5.3	NORTHWEST OF AUSTRALIA.
22	01 07 51*	1.5 N	126.2 E	33		MOLUCCA PASSAGE.
22	03 03 20.7	31.5 N	114.3 W	15	5.3	GULF OF CALIFORNIA. MAG. 5 1/4-5 1/2 (PAS), 5 (BRK).
22	03 28 11*	42.9 N	104.7 W	33		WYOMING. FELT AT LUSK, WYOMING.
22	05 26 05*	31.4 N	114.4 W	33	4.4	GULF OF CALIFORNIA.
22	05 42 39*	34.9 S	15.1 W	33		TRISTAN DA CUNHA REGION.
22	07 34 17*	32.0 N	113.8 W	15	4.6	W. ARIZ. - MEXICO BORDER REGION.
22	12 41 22.1	10.5 S	161.6 E	50	5.0	SOLOMON ISLANDS.
22	17 04 31.2	51.9 N	30.0 W	33	4.9	NORTH ATLANTIC RIDGE.
22	20 07 51.7	10.1 S	161.7 E	71	4.6	SOLOMON ISLANDS.
22	22 17 00.1	37.1 N	116.0 W	0		37° 03' 55"N. 116° 02' 56"W. NEVADA TEST SITE "CANVASBACK" SHOT ELEVATION 804.1 METERS (AEC).
23	02 56 13.3	59.4 N	30.3 W	33	4.6	NORTH ATLANTIC OCEAN.
23	04 47 46.4	59.4 N	30.2 W	33	4.8	NORTH ATLANTIC OCEAN.
23	09 35 25.0	4.5 S	138.4 E	163	5.0	WEST NEW GUINEA.
23	09 54 40*	33.1 N	142.1 E	33	4.1	OFF EAST COAST OF HONSHU, JAPAN.
23	10 30 28*	30.8 S	71.9 W	76	4.2	NEAR COAST OF CENTRAL CHILE.
23	12 23 37.9	6.9 N	73.0 W	161	4.2	NORTHERN COLOMBIA.
23	13 26 25.4	21.6 S	69.6 W	71	4.2	NORTHERN CHILE.
23	15 24 05.3	6.1 S	149.4 E	63	4.9	NEW BRITAIN REGION. MAG. 6 1/2 (PAS), 5 1/4-5 1/2 (BRK).
23	17 32 56*	10.2 N	102.7 W	33	4.3	OFF COAST OF MEXICO.
23	22 03 26.5	15.6 N	93.9 W	144	3.6	NEAR COAST OF CHIAPAS, MEXICO.
24	01 36 24*	61.2 N	146.8 W	47	4.0	SOUTHERN ALASKA.
24	01 51 03.3	38.8 N	112.3 W	33		UTAH.
24	01 55 38*	39.1 N	112.2 W	33		UTAH.
24	02 01 33.8	20.0 S	175.7 W	152	4.5	TONGA ISLANDS.
24	05 48 13*	60.0 N	147.3 W	33	3.8	SOUTHERN ALASKA.
24	06 54 26.4	51.9 N	161.8 E	33	4.8	OFF EAST COAST OF KAMCHATKA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
24	08 31 05.8	18.4 N	68.8 W	179	4.6	MONA PASSAGE.
24	10 18 58.5	45.0 N	111.4 W	33	4.3	MONTANA.
24	10 37 23.4	1.5 S	78.1 W	173	5.1	ECUADOR.
24	16 42 22*	2.0 N	79.1 W	98	4.7	SOUTH OF PANAMA.
24	17 26 15.1	0.2 N	123.8 E	127	5.4	NORTHERN CELEBES.
24	19 53 59.7	12.9 N	120.3 E	33	5.0	MINDORO, PHILIPPINE ISLANDS.
24	21 24 48.0	86.9 N	52.0 E	11	4.6	NORTH OF FRANZ JOSEF LAND.
24	21 56 54.2	58.4 N	150.3 W	22	5.8	GULF OF ALASKA. MAG. 4 3/4-5 (BRK).
25	02 56 17*	7.0 S	129.4 E	143	5.0	BANDA SEA.
25	04 55 14*	24.4 S	68.6 W	123	4.0	CHILE-ARGENTINA BORDER REGION.
25	05 03 19*	12.1 N	87.7 W	72	4.0	NEAR COAST OF NICARAGUA.
25	05 46 12.1	5.4 S	147.1 E	203	5.0	EAST NEW GUINEA REGION.
25	07 08 11.1	35.4 N	28.6 E	11	4.6	EASTERN MEDITERRANEAN SEA.
25	07 45 47.1	37.6 S	73.7 W	24	4.5	NEAR COAST OF CENTRAL CHILE.
25	08 05 01.6	35.6 N	29.1 E	45	4.6	EASTERN MEDITERRANEAN SEA.
25	11 11 53.6	36.1 N	28.7 E	50	4.9	DODECANESE ISLANDS.
25	11 42 59.9	35.4 N	28.9 E	43	4.5	EASTERN MEDITERRANEAN SEA.
25	13 47 20.6	78.2 N	126.6 E	50	6.1	EAST OF SEVERNAYA ZEMLYA. MAG. 7 (PAS), 6 1/2 (BRK).
25	14 37 32.5	35.7 N	29.1 E	24	4.8	EASTERN MEDITERRANEAN SEA.
25	19 20 33.0	33.8 N	27.9 E	132	4.4	EASTERN MEDITERRANEAN SEA.
25	20 53 41*	34.9 N	29.0 E	70		EASTERN MEDITERRANEAN SEA.
25	21 03 30*	19.5 S	176.9 W	444	4.2	FIJI ISLANDS REGION.
25	22 27 19*	18.2 N	68.2 W	96	4.5	MONA PASSAGE.
26	03 18 44.1	52.1 N	30.1 W	33	5.4	NORTH ATLANTIC RIDGE.
26	05 40 27.1	47.2 N	148.4 E	308	5.3	NORTHWEST OF KURILE ISLANDS.
26	07 35 55.7	45.1 N	151.0 E	33	4.2	KURILE ISLANDS.
26	09 00 20*	13.9 N	92.6 W	33	3.9	OFF COAST OF CHIAPAS, MEXICO.
26	12 59 31.1	0.2 N	126.6 E	33	4.5	MOLUCCA PASSAGE.
26	13 21 03*	23.3 S	179.5 W	368	4.6	SOUTH OF FIJI ISLANDS.
26	16 58 52*	43.8 N	102.2 W	15	4.4	SOUTH DAKOTA.
26	17 22 55*	60.9 N	147.9 W	33	3.9	SOUTHERN ALASKA.
26	19 31 40.8	20.3 S	178.3 W	510	4.3	FIJI ISLANDS REGION.
26	20 47 53*	28.8 S	69.3 W	102	4.5	CHILE-ARGENTINA BORDER REGION.
26	23 45 04.5	57.3 N	152.7 W	18	4.9	KODIAK ISLAND REGION.
27	01 34 26.7	23.7 N	143.6 E	39	5.1	VOLCANO ISLANDS REGION.
27	03 10 19*	54.1 N	167.4 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
27	04 45 02.6	5.6 S	133.9 E	9	5.1	AROE ISLANDS REGION.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
27	07 53 54.8	17.5 S	173.0 W	33	5.3	TONGA ISLANDS. MAG. 4 1/2-4 3/4 (BRK).
27	08 27 43*	6.5 N	123.5 E	33	5.1	MINDANAO, PHILIPPINE ISLANDS.
27	09 10 54.7	15.1 N	98.8 W	43	3.9	OFF COAST OF GUERRERO, MEXICO.
27	09 53 51.0	65.3 N	133.8 W	33	4.6	NORTHERN YUKON TERRITORY, CANADA.
27	10 32 00*	63.6 N	148.2 W	106	4.2	CENTRAL ALASKA.
27	11 58 41.3	28.2 N	55.7 E	69	5.1	SOUTHERN IRAN.
27	12 25 22.5	4.8 N	76.2 W	112	4.8	COLOMBIA.
27	12 56 46.1	27.5 N	55.9 E	33	5.3	SOUTHERN IRAN.
27	15 37 52*	3.0 S	103.1 E	506		SOUTHERN SUMATRA.
27	19 31 56.9	35.5 N	28.7 E	33	4.7	EASTERN MEDITERRANEAN SEA.
27	21 23 38.9	22.7 S	172.0 E	33		LOYALTY ISLANDS REGION.
27	21 46 42*	1.5 N	78.4 W	141	4.9	COLOMBIA-ECUADOR BORDER REGION.
27	22 41 53*	60.9 N	152.8 W	33	3.7	SOUTHERN ALASKA.
27	23 48 26.3	21.6 S	175.3 W	60	5.2	TONGA ISLANDS.
28	04 35 29.3	19.8 S	178.2 W	580	5.4	FIJI ISLANDS REGION.
28	06 50 47*	37.0 N	113.1 W	33		UTAH.
28	08 25 08.9	18.2 S	174.6 W	70	4.4	TONGA ISLANDS.
28	10 51 28*	41.6 N	125.9 W	33	4.9	OFF COAST OF NORTHERN CALIFORNIA.
28	12 06 18.3	37.9 N	19.8 E	61	4.5	IONIAN SEA.
28	13 21 13.5	7.1 N	95.1 E	33	5.1	NICOBAR ISLANDS REGION.
28	13 22 05*	7.6 N	95.6 E	33	5.2	NICOBAR ISLANDS REGION.
28	14 42 18.5	24.4 S	179.8 E	549	4.9	SOUTH OF FIJI ISLANDS.
28	17 06 00.0	37.1 N	116.0 W	0		37° 04' 01"N. 116° 01' 20"W. NEVADA TEST SITE "HADDOCK" SHOT ELEVATION 883.6 METERS (AEC).
28	18 17 03.2	23.5 N	120.6 E	10	5.2	TAIWAN.
28	19 05 44*	22.8 N	120.9 E	65		TAIWAN.
28	22 57 58.2	51.5 N	130.2 W	33	4.2	QUEEN CHARLOTTE ISLANDS REGION.
29	02 45 29*	43.3 N	0.1 E	33	4.4	FRANCE. FELT UPPER PYRENEES, FRANCE.
29	04 08 03.2	57.8 N	156.0 W	78	4.8	ALASKA PENINSULA.
29	05 20 19.8	71.6 N	3.7 W	33	4.7	JAN MAYEN ISLAND REGION.
29	06 05 24.2	19.3 S	66.3 W	232	5.0	SOUTHERN BOLIVIA.
29	06 55 30*	72.3 N	2.8 W	33	4.4	JAN MAYEN ISLAND REGION.
29	12 49 58.3	13.3 S	172.4 E	33	4.9	NEW HEBRIDES ISLANDS REGION.
29	13 25 25.9	13.7 S	172.6 E	33	5.0	NEW HEBRIDES ISLANDS REGION.
29	17 17 34*	3.2 S	92.2 W	33	4.2	GALAPAGOS ISLANDS REGION.
29	17 26 55.5	20.7 S	174.1 W	33	4.4	TONGA ISLANDS.
29	19 37 56.0	35.2 N	28.6 E	63	4.7	EASTERN MEDITERRANEAN SEA.
29	20 51 55*	11.4 N	87.2 W	33	4.2	NEAR COAST OF NICARAGUA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
29	21 36 50.8	14.9 S	172.8 W	33	4.7	SAMOA ISLANDS. FELT ON APIA.
30	02 35 08*	27.6 N	88.3 E	21	5.2	SIKKIM.
30	03 19 07.5	6.6 N	82.5 W	45	4.2	SOUTH OF PANAMA.
30	04 53 21.6	71.8 N	3.6 W	33	4.5	JAN MAYEN ISLAND REGION.
30	07 57 38.0	18.9 S	169.5 E	210	4.0	NEW HEBRIDES ISLANDS.
30	08 11 42.5	15.8 S	174.9 W	286	4.9	TONGA ISLANDS.
30	08 47 34.7	5.0 S	144.5 E	93	5.8	NEW GUINEA.
30	15 20 50.7	12.6 N	88.5 W	54	4.6	OFF COAST OF CENTRAL AMERICA. FELT IN EL SALVADOR.
30	17 55 17.0	9.8 S	159.1 E	35	4.8	SOLOMON ISLANDS.
30	20 37 09.2	13.6 S	172.4 E	33	4.9	NEW HEBRIDES ISLANDS REGION.
30	21 03 58*	29.2 N	114.4 W	33	5.2	BAJA CALIFORNIA.
30	21 44 56.9	19.9 S	176.0 W	253	5.6	FIJI ISLANDS REGION.
30	22 30 24.8	13.7 S	172.5 E	33		NEW HEBRIDES ISLANDS REGION.
30	22 57 35*	34.1 N	118.4 W	14	4.4	SOUTHERN CALIFORNIA. FELT IN LOS ANGELES AREA. MAG. 4 1/4 (PAS).
31	02 14 20.3	35.2 S	106.0 W	33	5.2	EASTER ISLAND CORDILLERA.
31	02 42 09.7	55.2 N	162.0 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
31	04 22 09*	1.4 N	66.0 E	29		CARLSBERG RIDGE.
31	05 30 35.1	25.7 N	128.1 E	91		RYUKYU ISLANDS.
31	17 03 36*	35.5 N	118.4 W	5	4.5	CENTRAL CALIFORNIA.
31	17 07 39*	9.6 N	85.4 W	33	4.2	OFF COAST OF COSTA RICA.
31	19 36 38*	59.5 N	145.9 W	33	4.6	GULF OF ALASKA.
31	23 20 19.4	52.4 N	170.7 W	33	5.2	FOX ISLANDS, ALEUTIAN ISLANDS.
31	23 55 23*	58.5 N	154.8 W	33	5.2	ALASKA PENINSULA.

Date and Station	Phase (GCT)
	h m s
AUG 01	
HON F	00 11 37.0
EL	20 12.0
AUG 01	
ALQ FP	00 48 19.0
AUG 1	
H-02 27 13.6	
20.0S 179.8E	
h ABOUT 553KM	
COL IP	02 39 05.0
ALQ FP	02 39 09.0
AUG 01	
COL EP	02 41 05.0
AUG 01	
HHM E(P)	03 30 17.3
AUG 01	
ALQ E(P)	04 17 03.0
AUG 01	
FUR IP	05 21 06.4
AUG 01	
ALQ F(P)	06 16 03.5
AUG 1	
H-08 55 49.1	
11.8N 087.0W	
h ABOUT 088KM	
ALQ FP	09 01 45.0
F	01 52.0
AUG 01	
TUC E(P)	10 18 24.3
BCN E(P)	10 19 08.0
EL	20 08.5
ALQ E(P)	10 19 33.0
FUR FP	10 20 19.0
AUG 01	
COL FP	13 31 55.0
AUG 1	
H-13 54 54.8	
27.7S 070.9W	
h ABOUT 118KM	
SJP EP	14 03 07.1
E	03 16.0
ALQ FP	14 06 01.0
F	06 23.0
EPP	08 55.0
RCD FP	14 06 38.0
F	06 47.0
E	06 52.0
BCN E(P)	14 06 39.0
FUR IP	14 06 48.2
BUT F(P)	14 07 05.0

Date and Station	Phase (GCT)
	h m s
HHM EP	14 07 19.9
AUG 01	
TUC EP	18 28 52.3
COL IP	18 33 42.5
AUG 01	
BCN E(P)	18 30 42.5
EL	31 40.5
EUR IP	18 31 12.2
AUG 01	
HHM EP	20 35 51.0
AUG 2	
H-00 15 34.5	
52.9N 162.3E	
h ABOUT 033KM	
COL IP	00 21 21.0
EUR IP	00 25 06.9
RCD IP	00 25 31.0
E	25 38.0
TUC EP	00 26 01.8
ALQ IP	00 26 05.0
E	26 08.0
AUG 02	
TUC E(P)	00 58 04.0
AUG 02	
BCN E(P)	00 59 58.0
AUG 02	
TUC E(P)	01 08 14.0
AUG 02	
RCD EP	01 38 41.0
AUG 2	
H-02 20 19.2	
55.9S 027.7W	
h ABOUT 086KM	
BOZ EP'	02 39 05.5
HHM EP'	02 39 11.7
COL EP'	02 39 59.0
AUG 2	
H-03 04 16.9	
56.1N 156.1W	
h ABOUT 033KM	
COL FP	03 06 35.0
HHM E(P)	03 10 01.7
BOZ E(P)	03 10 26.0
EUR IP	03 10 34.2
I	17 08.0
BCN EP	03 11 02.8
EPP	11 11.0

Date and Station	Phase (GCT)
	h m s
RCD EP	03 11 10.0
E	11 16.0
GCA E(P)	03 11 11.8
TUC EP	03 11 44.2
E	11 52.2
EPCP	14 00.8
ALQ EP	03 11 46.5
E	11 55.0
E	12 01.0
KIP ET	03 46 45.0
AUG 02	
HHM EP	03 13 16.8
I	13 25.8
BOZ EP	03 13 24.0
I	13 32.5
ALQ EP	03 13 51.0
E	14 01.0
E	17 40.0
E	17 57.0
AUG 02	
BOZ E(P)	03 16 45.0
HHM EP	03 16 54.3
AUG 2	
H-04 00 45.1	
10.9N 086.3W	
h ABOUT 032KM	
ALQ FP	04 06 55.0
BOZ FP	04 08 26.0
E	09 21.5
AUG 2	
H-06 13 06.7	
59.8N 146.1W	
h ABOUT 028KM	
COL EP	06 14 25.0
HHM E(P)	06 17 57.9
AUG 2	
H-07 03 11.4	
03.8S 123.2E	
h ABOUT 037KM	
BOZ EP'	07 21 54.6
TUC EP'	07 22 05.0
ALQ IP'	07 22 10.0
E	22 26.0
AUG 2	
H-08 10 38.7	
00.1N 123.9E	
h ABOUT 110KM	
ALQ EP'	08 29 22.0
BCN EP'	08 29 26.5

Date and Station	Phase (GCT)
	h m s
AUG 2	
H-08 36 16.9	
56.2N 149.9W	
h ABOUT 031KM	
SIT F(P)	08 38 09.8
E(S)	39 41.4
COL IP	08 38 22.4
ES	39 56.0
HHM IP C	08 41 23.2
IPP	41 32.3
IS	45 40.0
UKI E(P)	08 41 34.2
BUT EP	08 41 42.5
I	41 50.5
FS	46 21.5
BOZ IP	08 41 48.9
IS	46 36.0
IL	48 40.0
FUR IP	08 42 06.0
SLC E(P)	08 42 10.4
E	42 18.9
BCN FP	08 42 35.5
IPP	42 45.0
RCD FP	08 42 39.0
EPP	42 48.0
SP	42 52.0
GCA FP	08 42 40.0
KIP E(P)	08 43 10.0
F	44 26.0
FS	48 44.0
EL	50 26.0
HON FP	08 43 12.0
FS	48 46.0
EL	50 30.0
TUC FP	08 43 18.2
FPP	43 27.7
FS	48 53.0
ALQ IP	08 43 20.0
EPP	43 29.0
ESP	43 37.0
WAS IP	08 44 59.0
EL	58 27.0
CSC EP	08 45 18.0
FS	52 38.0
SJP FP	08 47 36.5
E(PP)	47 47.0
AUG 2	
H-10 40 23.7	
43.0N 013.0E	
h ABOUT 033KM	
BOZ FP	10 52 26.5
I	52 30.0
ALQ E(P)	10 53 00.0

Date and Station	Phase (GCT)
	h m s
AUG 02	
COL IP	11 31 50.0
AUG 02	
BOZ EP	11 39 31.0
AUG 2	
H-13 29 07.3	
39.1N 118.1W	
h ABOUT 015KM	
FUR IP	13 29 35.6
BCN E(P)	13 30 11.5
IL	30 16.0
BOZ E(P)	13 30 12.0
F	30 27.0
GCA F(P)	13 30 42.3
I	30 51.5
BOZ E(P)	13 31 13.0
TUC E(P)	13 31 21.0
AUG 02	
HHM EP	13 54 53.3
I	54 57.1
IL	55 26.0
BOZ E(P)	13 55 32.0
FL	56 57.0
AUG 02	
BUT EP	13 56 29.0
I	56 36.5
AUG 2	
H-13 57 45.0	
27.5S 070.3W	
h ABOUT 061KM	
RCD E(P)	14 09 35.0
BOZ E(P)	14 09 49.0
AUG 2	
H-15 33 31.1	
56.5N 149.5W	
h ABOUT 033KM	
COL EP	15 35 34.0
HHM EP	15 38 34.5
BOZ EP	15 38 57.0
FUR IP	15 39 19.0
ALQ EP	15 40 32.0
EPCP	42 56.0
EPCP	43 06.0
AUG 2	
H-15 56 48.4	
44.7N 151.5E	
h ABOUT 033KM	
COL EP	16 04 08.5
BOZ E(P)	16 07 15.0

Date and Station	Phase (GCT)
	h m s
AUG 2	
H-16 22 41.7	
83.2N 119.5E	
h ABOUT 033KM	
ALQ EP	16 32 48.0
E	32 56.0
AUG 02	
BOZ IP	17 38 39.9
IL	38 54.0
HHM IP	17 38 59.4
IL	39 28.4
AUG 02	
HHM EP	18 41 59.7
AUG 02	
TUC EP	19 53 41.3
AUG 2	
H-21 39 54.3	
49.9N 156.8E	
h ABOUT 058KM	
COL IP	21 46 17.9
HHM EP	21 49 21.6
BOZ IP	21 49 43.0
IPP	49 58.6
FUR IP	21 49 54.4
BCN EP	21 50 14.5
EPP	50 30.5
RCD EP	21 50 19.0
EPP	50 35.0
TUC EP	21 50 46.0
ALQ IP	21 50 50.0
EPP	51 06.0
AUG 02	
BOZ E(P)	22 03 31.0
AUG 02	
HHM EP	22 27 04.6
I	27 07.1
ES	27 30.6
AUG 03	
FUR EP	01 03 32.6
AUG 3	
H-01 48 23.3	
19.8N 070.7W	
h ABOUT 007KM	
BHP IP C	01 51 40.0
IS	52 24.0
CSC EP	01 52 19.0
F	52 25.0
ES	55 40.0
EL	56 36.0
WAS I(P)	01 52 47.0
ES	56 27.0

Date and Station	Phase (GCT)
	h m s
ALQ IP	01 55 18.0
E	55 23.0
E	55 26.0
ES	02 00 48.0
RCD EP	01 55 32.0
F	55 36.0
TUC EP	01 55 43.2
ES	02 01 37.0
GCA E(P)	01 55 58.5
SLC E(P)	01 56 00.1
I	56 08.2
BCN EP	01 56 18.0
BOZ EP D	01 56 19.8
BUT EP	01 56 26.8
EUR IP	01 56 29.2
HHM EP	01 56 40.9
I	56 53.9
ES	02 03 17.9
COL EP	01 59 15.0
KIP E(S)	02 10 52.0
EL	29 34.0
HON E(S)	02 10 54.0
EL	27 04.0
AUG 03	
SJP E(P)	02 28 37.5
ES	29 27.5
EL	29 40.0
AUG 3	
H-02 32 14.6	
60.0N 148.0W	
h ABOUT 018KM	
COL IP	02 33 31.0
HHM EP	02 37 16.9
BOZ EP	02 37 46.0
ALQ E(P)	02 39 22.0
TUC EP	02 39 25.6
AUG 03	
SJP E(P)	02 55 08.5
ES	55 58.0
EL	56 13.0
AUG 03	
SJP E(P)	03 14 06.5
ES	14 54.5
EL	15 08.5
AUG 03	
SJP E(P)	03 22 39.5
ES	23 27.5
EL	23 42.0

Date and Station	Phase (GCT)
	h m s
AUG 3	
H-04 05 07.5	
46.6N 153.5E	
h ABOUT 033KM	
COL EP	04 12 06.2
EUR EP	04 15 34.1
AUG 03	
ALQ E(P)	04 28 29.0
AUG 03	
ALQ EP	04 54 55.0
AUG 3	
H-06 11 37.8	
60.2N 144.6W	
h ABOUT 020KM	
COL EP	06 12 52.5
BOZ E(P)	06 16 55.0
AUG 03	
SIT E(P)	06 52 24.6
AUG 03	
BOZ E(P)	06 56 29.0
AUG 03	
FUR EP	07 10 57.5
AUG 3	
H-07 44 44.3	
22.6N 121.3E	
h ABOUT 033KM	
COL EP	07 55 55.0
HHM EP	07 58 01.4
BOZ EP	07 58 13.0
E(PP)	08 01 11.0
EUR EP	07 58 23.3
ALQ EP'	08 03 09.0
TUC EP'	08 03 10.0
HON E(S)	08 05 52.0
E	10 30.0
EL	14 44.0
KIP E(S)	08 05 52.0
EL	14 45.0
AUG 03	
EUR EP	08 15 19.1
AUG 03	
COL EP	08 41 43.0
HHM IP	08 47 02.3
AUG 03	
SJP E(P)	09 02 41.5
ES	03 31.0
EL	03 43.0
AUG 03	
EUR EP	09 36 23.2

Date and Station	Phase (GCT)
	h m s
AUG 03	
BCN F(P)	11 25 21.5
EL	25 55.8
FUR FP	11 26 17.1
AUG 03	
BOZ EP	11 46 38.0
AUG 03	
ALQ FP	13 53 43.0
AUG 03	
COL FP	14 27 26.0
BOZ F(P)	14 27 27.0
AUG 03	
BCN IP	15 52 44.8
IS	52 49.5
AUG 3	
H-16 56 18.2	
56.7N 152.4W	
h ABOUT 020KM	
COL EP	16 58 23.0
AUG 3	
H-17 08 11.2	
8.3S 118.7E	
h ABOUT 033KM	
ALQ EP'	17 27 27.0
AUG 03	
ALQ EP	17 30 42.0
AUG 03	
ALQ E(P)	18 54 03.0
AUG 03	
COL EP	19 01 28.0
AUG 3	
H-18 54 54.9	
53.8N 132.1W	
h ABOUT 033KM	
SIT F(P)	18 55 44.0
FL	56 43.0
HHM FP	18 57 54.6
EL	19 01 26.1
BOZ FP	18 58 33.0
EL	19 02 53.0
FUR IP	18 59 07.5
ALQ F(P)	19 00 18.5
AUG 03	
TUC EP	19 49 33.3
EL	49 53.0
AUG 03	
BOZ F(P)	19 51 06.0
AUG 03	
ALQ EP	20 02 21.0

Date and Station	Phase (GCT)
	h m s
AUG 3	
H-21 29 40.8	
03.5N 078.0W	
h ABOUT 065KM	
ALQ IP	21 37 20.0
F(pP)	37 33.0
BOZ EP	21 38 40.0
AUG 03	
SIT F(P)	22 48 00.4
AUG 04	
TUC E(P)	02 14 46.6
AUG 04	
FUR EP	03 09 17.1
AUG 4	
H-03 36 42.0	
02.5S 139.8E	
h ABOUT 033KM	
COL EP	03 49 14.0
SJP EP'	03 56 31.0
AUG 04	
SJP IP	04 29 15.1
IS	29 28.3
AUG 4	
H-05 44 05.6	
56.9N 151.0W	
h ABOUT 033KM	
COL EP	05 46 03.5
AUG 4	
H-07 22 51.6	
39.3N 118.1W	
h ABOUT 015KM	
FUR IP	07 23 19.8
BCN E(P)	07 23 57.1
ES	24 41.0
FL	24 55.3
GCA E(P)	07 24 23.4
E(L)	25 42.4
AUG 4	
H-07 26 19.5	
27.0S 071.7W	
h ABOUT 058KM	
ALQ E(P)	07 37 26.0
AUG 04	
TUC E(P)	07 55 07.0
AUG 04	
HHM IP	09 03 40.1
AUG 04	
SLC E(P)	10 43 35.0
FUR EP	10 44 22.3
BOZ E(P)	10 44 32.0

Date and Station	Phase (GCT)
	h m s
AUG 4	
H-11 13 25.2	
39.7N 106.0W	
h ABOUT 033KM	
RCD E(P)	11 14 39.0
GCA I(P)	11 14 54.4
BOZ E(P)	11 15 12.0
FUR EP	11 15 18.6
AUG 04	
ALQ FP	11 14 50.0
F(S)	15 54.0
AUG 4	
H-12 38 15.3	
15.9S 174.5W	
h ABOUT 134KM	
TUC EP	12 49 58.6
FUR EP	12 49 58.9
ALQ EP	12 50 21.5
COL IP	12 50 27.0
BOZ EP	12 50 29.0
AUG 4	
H-13 06 22.2	
05.1S 078.6W	
h ABOUT 033KM	
ALQ EP	13 14 58.0
E	15 05.0
BOZ EP	13 16 16.0
AUG 04	
BUT EP	13 57 29.8
IL	57 45.8
AUG 04	
BOZ F(P)	14 56 04.0
AUG 04	
FUR FP	16 37 09.5
AUG 04	
EUR EP	16 58 43.1
AUG 4	
H-17 24 29.2	
46.5N 151.1E	
h ABOUT 101KM	
COL IP	17 31 32.5
KIP IP	17 33 00.1
IpP	33 23.0
HON EP	17 33 01.0
ES	39 03.0
HHM IP C	17 34 25.9
IpP	34 45.4
IPCP	35 12.0
ES	42 42.0
UKI EP	17 34 29.0

Date and Station	Phase (GCT)
	h m s
BUT EP	17 34 41.6
BOZ IP C	17 34 47.0
I	35 24.0
FS	42 49.0
FUR IP	17 34 57.2
EP'P'	18 03 37.7
SLC IP	17 35 07.1
BCN IP C	17 35 16.7
EpP	35 35.0
RCD IP	17 35 21.0
E	35 36.0
E(pP)	35 43.0
GCA IP	17 35 23.4
TUC IP C	17 35 46.1
EpP	36 05.6
ES	45 05.0
ALQ IP	17 35 50.0
F	35 56.0
E	36 00.0
E	36 06.0
AUG 04	
COL FP	17 49 34.0
AUG 04	
COL EP	17 53 00.0
AUG 04	
HHM FP	18 03 52.3
AUG 04	
RCD E(P)	19 04 13.0
AUG 04	
COL EP	20 13 50.0
AUG 04	
BCN IP D	20 46 28.8
IS	46 59.9
IL	47 12.5
TUC E(P)	20 47 00.8
GCA EP	20 47 02.1
EUR IP	20 47 14.1
ALQ IP	20 47 49.0
E	47 56.0
E	50 14.0
AUG 04	
COL FP	20 52 48.5
AUG 04	
EUR EP	21 11 24.1
AUG 04	
EUR IP	22 09 05.0
AUG 4	
H-23 18 51.1	
34.3N 046.0E	
h ABOUT 029KM	
COL EP	23 31 04.0

Date and Station	Phase	(GCT) h m s
AUG 05		
COL	IP	01 37 14.0
AUG 5		
H-01 47 39.1		
17.8S 176.4W		
h ABOUT 016KM		
COL	EP	02 00 15.0
BOZ	FP	02 00 22.0
AUG 05		
COL	FP	02 43 18.0
AUG 5		
H-02 54 38.2		
14.5N 092.1W		
h ABOUT 033KM		
ALQ	FP	02 59 52.0
	F	03 00 13.0
AUG 05		
HHM	FP	04 24 38.2
AUG 5		
H-04 24 51.3		
27.1N 128.1E		
h ABOUT 144KM		
GUA	FP	04 29 20.0
	I	29 32.5
COL	EP	04 35 04.0
BUT	FP	04 37 30.0
BOZ	IP C	04 37 34.7
	I	37 50.5
FUR	IP	04 37 40.0
BCN	FP	04 37 54.3
	E	37 59.5
AUG 05		
HHM	IP	04 58 11.7
	IL	59 07.0
AUG 05		
BUT	IP	05 01 32.5
BOZ	IP	05 01 36.9
	IL	01 53.0
FUR	EP	05 02 55.3
AUG 5		
H-06 47 27.7		
44.4S 072.4W		
h ABOUT 033KM		
TUC	FP	06 59 55.3
ALQ	IP	07 00 00.0
	F	00 07.0
	F	00 14.0
BCN	EP	07 00 20.0
AUG 05		
BOZ	EP	07 37 32.0
	IL	37 49.5
AUG 5		
H-08 25 45.7		
31.1S 069.0W		
h ABOUT 033KM		
ALQ	FP	08 37 23.0
AUG 5		
H-09 48 25.4		
15.1S 177.7W		
h ABOUT 398KM		
TUC	EP	09 59 50.6
COL	IP	10 00 07.4
ALQ	EP	10 00 12.5
BOZ	FP	10 00 18.0
AUG 5		
H-11 01 16.5		
39.0S 074.5W		
h ABOUT 026KM		
TUC	EP	11 13 16.8
	EpP	13 25.2
ALQ	IP	11 13 21.0
	FpP	13 29.0
BCN	FP	11 13 42.8
	FpP	13 50.5
FUR	IP	11 14 00.6
BOZ	FP	11 14 17.9
	F	19 18.0
	FPPP	20 16.0
	F	23 16.0
	E	29 16.0
	FPKKP	31 48.0
	I	37 29.0
AUG 5		
H-11 06 02.6		
32.1S 179.8E		
h ABOUT 235KM		
GUA	FP	11 15 20.8
	IL	24 29.0
HON	FP	11 15 26.0
	ES	23 05.0
KIP	IP	11 15 27.5
	IS	23 06.0
UKI	E(P)	11 18 28.7
	FpP	19 26.0
BCN	EP	11 18 43.0
	EpP	19 40.7
	EPP	22 22.5
	E	23 21.3
	ESKS	28 52.6
	ES	29 28.8
	EPKKP	36 04.5
	F	36 45.5
	EP'P'	44 11.0
TUC	IP D	11 18 45.0
	EpP	19 42.5
	E(S)	29 31.0
EUR	EP	11 18 49.7
	ESKS	29 03.6
GCA	EP	11 18 56.0
ALQ	IP	11 19 04.0
	EpP	20 02.0
	EPKKP	35 52.0
SLC	EP	11 19 04.9
	IpP	20 01.9
BUT	E(P)	11 19 16.0
	EPP	23 14.0
COL	EP	11 19 20.0
HHM	IP	11 19 28.7
	I	25 38.2
AUG 05		
BHP	FP	11 23 52.0
AUG 05		
RCD	EP	11 35 30.0
	E	35 43.0
AUG 05		
TUC	F(P)	12 58 00.6
BCN	F(P)	12 58 47.5
	FL	13 00 55.0
AUG 05		
GCA	FP	12 59 42.9
FUR	FP	13 00 25.7
ALQ	FP	13 00 29.0
AUG 05		
GCA	IP	15 18 31.0
	ES	18 56.3
FUR	FP	15 19 01.1
AUG 05		
BOZ	E(P)	16 19 33.0
AUG 05		
FUR	IP	17 08 11.2
AUG 05		
SLC	F(P)	19 55 22.7
AUG 5		
H-21 59 23.3		
29.0N 114.0W		
h ABOUT 016KM		
TUC	E(P)	22 00 30.4
ALQ	E(P)	22 01 32.0
AUG 5		
H-22 23 13.0		
41.1S 074.9W		
h ABOUT 033KM		
BHP	IP D	22 32 05.0
SJP	IP D	22 33 14.0
CSC	EP	22 34 51.0
	EPP	37 38.0
WAS	IP	22 35 18.0
	E	36 16.0
	EPP	38 16.0
TUC	IP D	22 35 22.2
	F	35 38.0
	F(S)	45 31.0
PHI	IP	22 35 25.6
	E(S)	45 31.9
ALQ	IP	22 35 26.0
	EpP	35 35.0
	ES	45 38.0
GCA	I(P)	22 35 46.2
BCN	FP	22 35 47.2
SLC	IP	22 36 01.6
RCD	EP	22 36 03.0
EUR	IP	22 36 03.7
UKI	FP	22 36 16.5
BOZ	EP	22 36 21.0
	IpP	36 30.0
	EPP	40 00.0
	ESKS	46 52.0
	IS	48 40.0
	IPKKP	53 00.0
BUT	IP	22 36 25.1
HON	E(P)	22 36 56.0
	EPP	40 56.0
	ESKS	47 34.0
	ES	48 27.0
	EPS	49 46.0
	F	50 22.0
	F	51 58.0
	ESS	55 12.0
	FL	23 08 22.0
KIP	E(P)	22 36 56.0
	EPP	40 56.0
	ESKS	47 32.0
	ES	48 22.0
	EPS	49 50.0
COL	IP'	22 41 59.6
AUG 05		
GUA	IP	22 45 08.0
AUG 06		
TUC	EP	00 43 28.5
AUG 6		
H-02 33 39.5		
31.5N 129.9E		
h ABOUT 197KM		
GUA	I(P)	02 38 16.5
COL	E(P)	02 43 18.5
HHM	IP C	02 45 40.5

Date and Station	Phase (GCT)
	h m s
BOZ IP D	02 45 55.0
EpP	46 36.0
FUR IP	02 46 02.2
BCN FP	02 46 16.6
TUC FP	02 46 38.7
ALQ FP	02 46 43.0
E	47 10.0
AUG 06	
COL IP	04 02 33.3
AUG 6	
H-07 05 48.6	
56.3N 149.8W	
h ABOUT 033KM	
COL EP	07 07 54.0
HHM EP	07 10 55.9
BOZ EP	07 11 20.0
FUR FP	07 11 36.7
AUG 06	
COL IP	07 09 30.3
AUG 6	
H-07 12 01.1	
9.1S 120.8E	
h ABOUT 058KM	
HHM FP'	07 30 46.0
FUR IP'	07 30 50.2
BOZ FP'	07 30 51.8
EPP	32 17.0
BCN FP'	07 30 54.5
E	31 22.5
TUC EP'	07 31 02.0
RCD FP'	07 31 03.0
ALQ EP'	07 31 08.0
ESKP	34 20.0
F	36 21.0
CSC EP'	07 31 40.0
AUG 06	
FUR IP	08 12 38.6
AUG 6	
H-10 46 28.9	
43.4N 126.7W	
h ABOUT 033KM	
UKI E(P)	10 47 41.5
FUR IP	10 48 40.3
HHM IP C	10 48 53.3
E	48 59.3
BUT E(P)	10 48 56.0
BOZ EP C	10 49 05.0
E(pP)	49 16.5
SLC E(P)	10 49 05.1
BCN FP	10 49 18.5
E	49 43.7
RCD E(P)	10 50 22.0
TUC EP	10 50 22.2
ALQ IP	10 50 35.5
E	50 37.0
F	50 42.0
COL FP	10 51 46.0
AUG 06	
COL EP	11 43 30.0
AUG 6	
H-13 00 13.1	
50.6N 179.5E	
h ABOUT 033KM	
COL E(P)	13 05 08.4
FUR IP	13 08 32.3
AUG 06	
BCN E(P)	13 02 25.5
E	02 29.1
AUG 6	
H-13 11 31.1	
60.4N 145.8W	
h ABOUT 033KM	
COL IP	13 12 40.2
HHM EP	13 16 22.6
BOZ E(P)	13 17 02.0
FUR EP	13 17 20.3
TUC EP	13 18 33.4
E	18 38.5
AUG 06	
EUR EP	15 31 16.2
AUG 6	
H-16 04 05.6	
75.7N 006.8E	
h ABOUT 033KM	
TUC E(P)	16 14 46.7
AUG 06	
COL E(P)	16 07 55.5
AUG 6	
H-17 03 28.9	
22.5S 179.5W	
h ABOUT 504KM	
KIP EP	17 11 26.0
BCN EP	17 15 09.2
TUC EP C	17 15 14.0
EUR IP	17 15 14.3
GCA FP	17 15 22.8
SLC IP	17 15 30.7
ALQ IP	17 15 34.0
EPCP	15 42.0
EpP	17 41.0
COL IP	17 15 35.8
BUT E(P)	17 15 39.0
HHM FP	17 15 40.5
BOZ IP	17 15 41.8
E	16 17.0
AUG 06	
ALQ EP	17 25 35.0
AUG 6	
H-18 24 50.5	
56.9N 152.1W	
h ABOUT 039KM	
COL IP	18 26 51.5
SIT E(P)	18 27 01.0
HHM EP	18 30 07.7
ES	34 35.4
UKI E(P)	18 30 17.5
BUT EP	18 30 25.0
ES	35 02.0
BOZ EP	18 30 33.2
ES	35 16.0
EUR IP	18 30 50.7
SLC E(P)	18 30 58.4
BCN EP	18 31 19.3
I	31 27.0
FPP	32 20.4
RCD EP	18 31 24.0
F	31 30.0
KIP EP	18 31 47.0
ES	37 18.0
HON FP	18 31 48.0
ES	37 20.0
EL	39 10.0
ET	19 08 35.0
TUC EP	18 32 01.9
E	32 09.2
ES	37 56.0
ALQ EP	18 32 04.0
E	32 11.0
EPCP	34 27.0
CSC E(P)	18 34 07.0
ES	41 24.0
PHI E(S)	18 41 04.6
AUG 06	
ALQ FP	18 38 06.0
E	38 20.0
AUG 06	
GCA FP	20 17 00.3
EUR EP	20 17 48.7
AUG 06	
ALQ EP	21 38 47.0
AUG 06	
GCA FP	21 48 05.5
AUG 06	
TUC IP C	22 16 05.0
EL	16 13.5
AUG 06	
TUC IP C	22 50 25.5
EL	50 44.5
AUG 6	
H-23 42 45.7	
19.2S 167.6E	
h ABOUT 043KM	
COL FP	23 55 43.0
BCN EP	23 55 50.0
EpP	56 02.2
EUR IP	23 55 51.7
TUC EP	23 55 57.5
E(pP)	56 10.2
AUG 07	
ALQ EP	01 14 24.0
AUG 7	
H-02 15 03.9	
20.2S 174.6W	
h ABOUT 029KM	
TUC EP	02 27 14.3
E	27 36.8
ALQ EP	02 27 37.0
COL EP	02 27 49.0
AUG 7	
H-03 15 25.2	
14.5N 092.0W	
h ABOUT 033KM	
ALQ EP	03 20 40.0
AUG 7	
H-05 37 25.1	
56.8N 152.3W	
h ABOUT 033KM	
COL IP	05 39 27.9
SIT E(P)	05 39 35.5
HHM EP	05 42 43.6
BUT E(P)	05 43 03.0
EUR IP	05 43 26.5

Date and Station	Phase (GCT)
	h m s
BCN EP	05 43 56.0
E	44 02.0
RCD EP	05 44 01.5
TUC EP	05 44 37.9
ALQ EP	05 44 40.0
E	44 46.0
AUG 7	
H-07 08 06.6	
54.4N 164.4W	
h ABOUT 033KM	
COL EP	07 11 17.0
HHM EP	07 14 27.5
I	14 57.5
EUR IP	07 15 03.2
BCN E(P)	07 15 34.5
TUC E(P)	07 16 15.8
KIP ET	07 49 14.0
AUG 7	
H-08 04 58.9	
37.5N 141.3E	
h ABOUT 033KM	
COL EP	08 13 42.0
EUR IP	08 16 43.1
BCN EP	08 16 59.0
E	17 11.5
ALQ E(P)	08 17 30.0
E	17 36.0
AUG 7	
H-08 21 03.4	
11.8N 086.9W	
h ABOUT 130KM	
TUC E(P)	08 27 02.9
AUG 07	
COL EP	09 13 04.0
AUG 07	
COL IP	11 18 56.3
AUG 07	
TUC E(P)	12 59 02.6
ALQ E(P)	13 00 00.0
AUG 07	
EUR IP	14 37 31.0
AUG 07	
HHM IP	14 59 43.7
AUG 7	
H-15 31 18.0	
14.0N 091.9W	
h ABOUT 089KM	
BHP EP	15 34 21.0
CSC EP	15 36 09.0
E(S)	40 42.0
ALQ IP	15 36 32.0
E	36 54.0
E	37 03.0
TUC EP	15 36 36.6
E(S)	41 00.0
GCA EP	15 37 11.0
BCN EP	15 37 22.1
RCD EP	15 37 33.0
SLC IP	15 37 37.6
EUR IP	15 37 48.6
BOZ EP	15 38 10.0
BUT E(P)	15 38 15.0
HHM EP	15 38 37.0
COL EP	15 41 38.0
KIP E	15 57 42.0
EL	16 00 22.0
HON F	15 57 44.0
FL	16 00 16.0
AUG 07	
BOZ E(P)	16 15 27.0
AUG 07	
TUC EP	17 13 25.5
EL	13 45.0
AUG 7	
H-17 31 41.6	
14.7S 173.0W	
h ABOUT 033KM	
ALQ E(P)	17 43 50.0
COL IP	17 43 57.5
BOZ EP	17 43 58.0
AUG 07	
TUC E(P)	17 49 03.8
AUG 07	
TUC E(P)	17 57 47.0
AUG 07	
SIT EP	19 00 58.7
COL EP	19 02 23.0
AUG 07	
BHP IP	19 16 56.0
AUG 07	
ALQ EP	19 24 40.0
AUG 7	
H-19 57 43.5	
.6N 087.0W	
h ABOUT 033KM	
ALQ EP	20 05 10.0
BOZ E(P)	20 06 34.0
AUG 07	
COL FP	21 36 30.0
AUG 07	
COL FP	21 41 56.0
AUG 07	
COL IP	21 45 41.1
AUG 07	
GCA FP	21 58 40.6
ES	59 14.0
AUG 07	
SIT EP	22 17 04.3
AUG 07	
BCN IP	23 33 57.1
IS	34 09.4
EUR EP	23 34 49.3
AUG 08	
TUC E(P)	00 06 23.0
AUG 08	
EUR EP	00 44 02.4
AUG 08	
SJP IP	01 10 36.0
IS	10 52.0
AUG 08	
TUC E(P)	03 32 19.0
AUG 08	
EUR IP	05 40 30.2
AUG 08	
HHM EP	07 13 03.1
COL IP	07 17 17.8
AUG 08	
ALQ E(P)	08 31 12.0
AUG 08	
BCN E(P)	09 40 16.5
AUG 8	
H-09 48 35.6	
56.7N 152.4W	
h ABOUT 033KM	
COL IP	09 50 38.0
EUR EP	09 54 37.6
BCN E(P)	09 55 06.5
E	55 17.6
F	55 28.5
AUG 08	
COL IP	11 20 26.1
AUG 08	
BOZ EP	12 35 46.9
AUG 08	
EUR EP	14 00 08.7
AUG 8	
H-14 50 32.2	
42.1N 083.7E	
h ABOUT 033KM	
COL IP	15 01 16.8
BOZ EP	15 03 37.6
AUG 8	
H-14 59 41.2	
31.7N 140.2E	
h ABOUT 110KM	
GUA IP	15 03 49.7
IL	07 14.8
COL IP	15 08 56.5
KIP EP	15 09 08.0
ES	16 48.0
F	17 34.0
FL	24 43.0
HHM IP D	15 11 20.6
IPP	11 46.6
BUT IP D	15 11 32.0
BOZ IP D	15 11 36.0
IPP	12 03.0
IS	21 28.0
EUR IP	15 11 40.6
SLC IP	15 11 51.0
BCN EP	15 11 55.0
EPP	12 23.5
ESP	12 37.0
GCA IP	15 12 02.3
RCD EP	15 12 05.0
TUC EP	15 12 18.4
EPP	12 46.8
ALQ IP D	15 12 24.0
EPP	12 53.0
HON ES	15 16 48.0
E	17 34.0
FL	24 42.0
AUG 8	
H-15 45 10.9	
12.5N 087.8W	
h ABOUT 063KM	
BHP IP	15 47 22.0
SJP E(P)	15 50 01.0
E	50 08.2
F	50 40.0
CSC IP	15 50 05.0
ES	54 06.0
ALQ IP C	15 50 57.0
E	51 09.0
F	51 25.0

Date and Station	Phase (GCT)
	h m s
TUC EP	15 51 05.0
EPCP	54 15.7
ESCP	57 54.0
ES	58 48.0
PHI E(P)	15 51 13.0
GCA EP	15 51 35.5
I	51 37.5
BCN EP	15 51 48.9
EPCP	54 28.0
F	54 55.0
ESCP	58 10.0
RCD EP	15 51 50.0
EPP	53 00.0
SLC IP	15 52 01.0
IPCP	54 32.2
ISCP	58 14.0
EUR IP	15 52 12.8
BOZ IP	15 52 31.0
BUT IP C	15 52 35.9
EPP	54 24.9
ESCP	58 30.9
HHM IP	15 52 56.9
IsP	53 17.6
IPP	54 45.0
ESCP	58 37.6
COL IP	15 55 52.0
KIP EP	15 56 00.0
ES	16 04 58.0
E	12 45.0
EL	16 23.0
HON EP	15 56 03.0
ES	16 04 59.0
E	12 55.0
EL	16 16.0
AUG 08	
BOZ EP	15 54 01.0
AUG 08	
SJP I(P)	16 03 26.5
AUG 8	
H-18 42 58.5	
20.9S 176.7W	
h ABOUT 354KM	
BOZ EP	18 55 12.0
AUG 08	
HHM F(P)	19 25 34.6
AUG 08	
BOZ E(P)	19 26 57.0
AUG 08	
H-20 06 50.6	
18.0N 074.0W	
h ABOUT 010KM	
SJP IP D	20 08 42.0
I	09 10.5
IS	10 09.7

Date and Station	Phase (GCT)
	h m s
BHP I(P)	20 09 16.0
CSC IP	20 10 54.0
E(S)	13 50.0
TUC E(P)	20 13 53.3
GCA EP	20 14 13.1
SLC EP	20 14 25.3
I	14 30.3
BCN EP	20 14 29.7
IPP	14 36.5
E	16 12.2
BOZ EP	20 14 39.5
IPP	14 45.5
EUR IP	20 14 44.2
BUT EP	20 14 45.1
HHM EP	20 15 01.1
IPP	15 08.6
I	15 15.6
COL EP	20 17 45.0
AUG 8	
H-20 59 43.6	
17.5S 175.0W	
h ABOUT 193KM	
BCN EP	21 11 23.0
EUR IP	21 11 27.2
TUC FP	21 11 27.7
GCA EP	21 11 36.3
I	11 37.7
ALQ IP	21 11 50.0
EPP	12 47.0
COL IP	21 11 56.0
BOZ EP	21 11 58.0
AUG 08	
ALQ E(P)	22 32 07.0
AUG 08	
SJP IP	22 55 23.3
IS	55 39.0
AUG 09	
COL IP	01 33 14.9
BOZ EP	01 36 29.9
AUG 9	
H-01 48 12.8	
17.8S 178.6W	
h ABOUT 537KM	
TUC EP	01 59 37.2
AUG 09	
COL EP	01 50 02.0

Date and Station	Phase (GCT)
	h m s
AUG 9	
H-03 12 57.3	
06.2S 147.9E	
h ABOUT 054KM	
COL FP	03 25 27.0
AUG 09	
TUC FP	04 16 16.2
AUG 9	
H-05 20 32.7	
53.4N 153.4E	
h ABOUT 511KM	
COL IP	05 26 09.5
BOZ IP	05 29 36.0
E	30 24.0
EUR IP	05 29 50.5
RCD EP	05 30 09.0
TUC EP	05 30 42.0
E	30 47.7
ALQ IP	05 30 44.0
E	31 06.0
AUG 9	
H-05 30 46.9	
10.3S 161.3E	
h ABOUT 085KM	
COL IP	05 43 07.6
EUR IP	05 43 42.9
ALQ FP	05 44 15.0
BOZ E(P)	05 44 03.0
AUG 09	
EUR EP	06 07 37.5
AUG 9	
H-06 31 29.3	
17.1S 173.1W	
h ABOUT 033KM	
EUR FP	06 43 22.4
TUC FP	06 43 22.5
ALQ IP	06 43 47.0
E	43 58.0
BOZ IP	06 43 56.5
COL IP	06 43 59.3
AUG 09	
ALQ FP	06 32 37.0
AUG 09	
BHP IP	07 01 51.0
AUG 9	
H-07 16 13.3	
06.0N 078.8W	
h ABOUT 033KM	
SJP EP	07 20 18.5

Date and Station	Phase (GCT)
	h m s
ALQ IP	07 23 34.0
F	23 49.0
F	23 54.0
TUC FP	07 23 46.1
BOZ E(P)	07 24 55.0
AUG 9	
H-07 56 26.2	
45.1S 079.2W	
h ABOUT 033KM	
ALQ FP	08 08 50.0
F	08 56.5
AUG 9	
H-08 26 56.5	
01.7S 078.8W	
h ABOUT 175KM	
ALQ IP	08 34 55.0
F	35 02.0
TUC E(P)	08 35 01.0
BOZ FP	08 36 14.2
AUG 09	
HHM F(P)	08 58 06.4
AUG 09	
HHM E(P)	09 10 59.6
AUG 9	
H-09 30 25.7	
41.1S 083.7W	
h ABOUT 033KM	
ALQ FP	09 42 26.0
F	42 32.0
AUG 09	
EUR FP	10 30 18.3
AUG 9	
H-11 33 25.5	
60.7N 145.4W	
h ABOUT 033KM	
COL IP	11 34 31.3
HHM FP	11 38 14.7
EUR FP	11 39 18.4
AUG 09	
COL FP	12 16 07.0
AUG 9	
H-15 31 13.2	
5.7N 072.5W	
h ABOUT 075KM	
ALQ E(P)	15 39 05.0
AUG 09	
GUA IP	15 56 47.0
FS	56 53.0
AUG 09	
BOZ F(P)	18 43 17.0

Date and Station	Phase	(GCT) h m s
AUG 09		
SIT	EP	19 09 10.3
AUG 09		
BOZ	E(P)	20 06 34.0
	EL	07 32.0
AUG 9		
H-20 06 36.9		
.3S 125.1E		
h ABOUT 059KM		
GUA	EP	20 11 46.5
TUC	EP'	20 25 21.0
ALQ	EP'	20 25 26.0
AUG 09		
HHM	E(P)	21 08 49.0
AUG 09		
ALQ	E(P)	21 56 01.0
AUG 09		
EUR	EP	22 11 52.7
AUG 09		
SIT	E(P)	22 38 16.2
	E	38 26.5
AUG 9		
H-23 26 43.5		
17.5N 073.7W		
h ABOUT 033KM		
SJP	EP	23 28 30.3
AUG 09		
TUC	E(P)	23 43 06.6
AUG 10		
H-01 07 44.1		
59.8N 151.8W		
h ABOUT 033KM		
COL	EP	01 09 05.0
ALQ	E(P)	01 15 04.0
AUG 10		
H-01 10 12.4		
19.1N 067.3W		
h ABOUT 033KM		
SJP	E(P)	01 10 36.4
RHP	IP	01 13 50.0
CSC	EP	01 14 34.0
	ES	17 50.0
PHI	E(P)	01 15 05.4
	E	19 03.3
ALQ	IP	01 17 30.0
	E	17 50.0
	E	18 31.0
	ESCP	23 31.0
RCD	IP	01 17 36.0
	E	17 43.0
	E(S)	25 56.0
TUC	IP C	01 17 55.5
	E	18 09.3
	E	23 42.7
GCA	IP	01 18 08.1
BOZ	IP C	01 18 27.2
	I	18 34.5
BCN	IP C	01 18 27.5
	E(pP)	18 40.3
	E(sP)	18 47.0
	IPCP	20 16.0
	ISCP	24 58.8
EUR	IP	01 18 37.8
HHM	I(P)	01 18 55.8
UKI	E(P)	01 19 30.0
SIT	E(P)	01 20 32.3
COL	EP	01 21 14.6
HON	E(S)	01 33 04.0
	EL	50 50.0
AUG 10		
SJP	IP	02 12 22.5
	IS	12 36.0
AUG 10		
ALQ	EP	02 42 39.0
TUC	EP	02 42 50.9
AUG 10		
H-03 54 26.1		
06.4S 154.2E		
h ABOUT 166KM		
COL	EP	04 06 33.0
EUR	IP	04 07 26.6
AUG 10		
COL	EP	06 51 34.0
AUG 10		
H-07 34 49.9		
16.7S 070.8W		
h ABOUT 092KM		
SJP	EP	07 41 35.5
ALQ	IP	07 44 59.5
	EpP	45 25.0
	E(sP)	45 39.0
TUC	EP	07 45 02.3
	E	45 18.3
GCA	E(P)	07 45 28.8
BCN	EP	07 45 36.1
	EpP	46 02.5
EUR	IP	07 45 54.3
BOZ	EP	07 46 07.8
	IpP	46 34.2
BUT	EP	07 46 12.0
	EpP	46 39.0
HHM	EP	07 46 25.6
AUG 10		
TUC	EP	08 53 47.2
AUG 10		
BCN	E(P)	08 58 38.5
AUG 10		
TUC	EP	10 30 48.2
AUG 10		
COL	IP	10 37 56.3
AUG 10		
ALQ	EP	12 43 02.0
	E	43 08.0
TUC	EP	12 43 10.2
AUG 10		
H-14 00 51.1		
12.4N 088.3W		
h ABOUT 071KM		
BOZ	EP	14 08 09.0
AUG 10		
ALQ	E(P)	16 36 34.0
AUG 10		
H-16 58 44.0		
09.2N 062.0W		
h ABOUT 051KM		
SJP	EP	17 01 09.5
	I	02 54.2
	IL	03 22.4
CSC	EP	17 04 51.0
ALQ	IP D	17 07 20.0
	E	07 29.0
	E(pP)	07 33.0
TUC	IP D	17 07 39.7
	E	09 00.2
GCA	IP	17 07 56.0
BCN	EP	17 08 12.3
BOZ	IP	17 08 17.8
EUR	IP	17 08 24.8
HHM	IP D	17 08 35.9
SIT	EP	17 10 12.8
COL	IP	17 10 49.0
AUG 10		
COL	IP	17 13 52.1
AUG 10		
H-17 52 02.5		
45.1N 149.9E		
h ABOUT 040KM		
COL	IP	17 59 25.9
HHM	IP C	18 02 18.5
BOZ	IP C	18 02 38.0
	IpP	02 49.5
EUR	IP	18 02 47.4
BCN	EP	18 03 06.4
	FpP	18 03 17.6
	FsP	03 22.5
RCD	EP	18 03 12.0
	E(pP)	03 22.0
GCA	EP	18 03 13.7
TUC	EP	18 03 35.4
ALQ	IP C	18 03 40.0
	F	03 48.0
CSC	E(P)	18 04 53.0
AUG 10		
H-18 18 35.6		
30.3N 057.7E		
h ABOUT 013KM		
COL	EP	18 31 02.0
AUG 10		
SJP	IP	19 18 06.0
	IS	18 23.0
AUG 10		
BOZ	EP	19 19 20.0
	IL	19 55.0
EUR	EP	19 19 53.7
HHM	EP	19 20 48.5
AUG 10		
SJP	IP	19 53 58.0
	IS	54 08.5
AUG 10		
TUC	EP	19 55 20.8
	EL	55 40.7
AUG 10		
H-20 16 55.8		
44.6N 148.8E		
h ABOUT 039KM		
COL	IP	20 24 27.0
HHM	EP	20 27 18.1
BOZ	EP	20 27 37.2
EUR	IP	20 27 46.6
BCN	E(P)	20 28 05.0
	E	28 29.5
ALQ	E(P)	20 28 39.0
AUG 10		
BUT	IP C	20 18 33.5
	E	26 15.0
AUG 10		
HHM	IP	20 37 33.2

Date and Station	Phase (GCT)
	h m s
AUG 10	
RCD FP	21 21 48.0
AUG 10	
H-21 40 10.4	
6.2S 154.5E	
h ABOUT 105KM	
GUA IP	21 44 59.0
COL IP	21 52 21.8
EUR IP	21 53 16.5
BCN EP	21 53 20.0
HHM EP	21 53 24.7
TUC EP	21 53 34.2
ALQ E(P)	21 53 51.0
HON E(S)	21 57 07.0
FL	22 04 46.0
SJP EP'	21 59 25.7
I	59 29.0
AUG 10	
BOZ EP	21 53 15.0
AUG 10	
HHM IP	23 24 23.2
IS	24 28.0
AUG 10	
TUC EP	23 53 50.8
AUG 11	
H-01 55 25.0	
5.8S 154.1E	
h ABOUT 425KM	
GUA EP	01 59 41.0
COL IP	02 07 00.9
EUR IP	02 07 56.4
BOZ FP	02 08 11.5
SJP IP'D	02 14 29.5
I	14 43.3
AUG 11	
EUR EP	04 18 26.0
AUG 11	
H-05 49 58.7	
18.0S 176.9W	
h ABOUT 329KM	
TUC FP	06 01 37.4
BOZ EP	06 02 05.0
AUG 11	
GCA FP	07 09 19.5
ES	09 54.9
EUR FP	07 09 49.3

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	07 10 11.0
AUG 11	
H-07 44 07.0	
53.8N 163.3E	
h ABOUT 040KM	
COL EP	07 49 43.0
EUR EP	07 53 31.7
AUG 11	
H-08 13 41.9	
9.9N 082.9W	
h ABOUT 033KM	
BHP IP	08 14 34.0
IS	15 14.0
ALQ E(P)	08 20 15.0
AUG 11	
TUC EP	09 37 56.2
ALQ E(P)	09 38 06.0
AUG 11.	
H-10 32 02.7	
29.9N 131.4E	
h ABOUT 059KM	
COL EP	10 42 01.5
AUG 11	
COL FP	11 35 04.0
AUG 11	
TUC FP	12 19 14.6
AUG 11	
H-12 32 00.2	
14.7S 167.8E	
h ABOUT 140KM	
EUR I(P)	12 44 48.8
AUG 11	
H-12 34 35.6	
48.7N 154.8E	
h ABOUT 043KM	
COL IP	12 41 16.0
BOZ EP	12 44 37.5
BCN E(P)	12 45 08.5
TUC EP	12 45 39.5
ALQ IP	12 45 44.0
AUG 11	
ALQ IP	13 57 32.0
E	57 40.0
AUG 11	
H-14 12 35.9	
3.0N 084.3W	
h ABOUT 033KM	
ALQ E(P)	14 19 44.0
TUC E(P)	14 19 55.8

Date and Station	Phase (GCT)
	h m s
BOZ FP	14 21 20.0
AUG 11	
EUR EP	14 30 57.9
AUG 11	
ALQ E(P)	17 24 43.0
AUG 11	
HHM IP	17 46 58.5
AUG 11	
GUA EP	17 54 57.0
AUG 11	
ALQ E(P)	18 17 07.0
AUG 11	
HHM EP	19 05 24.2
AUG 11	
COL IP	20 14 41.3
AUG 11	
H-21 42 20.1	
10.2S 160.8E	
h ABOUT 168KM	
COL IP	21 54 32.6
EUR IP	21 55 08.0
AUG 11	
BCN IP	23 01 02.6
IS	01 14.5
AUG 11	
TUC FP	23 24 07.2
AUG 11	
SIT E(P)	23 29 14.0
AUG 12	
H-05 04 50.9	
39.4N 112.0W	
h ABOUT 015KM	
SLC IP	05 05 16.7
I	05 18.2
GCA IP	05 05 24.7
ES	05 51.9
BCN EP	05 05 55.9
E	06 45.5
ALQ EP	05 06 25.0
E	06 40.0
AUG 12	
ALQ IP D	06 47 52.0
F	48 00.0
AUG 12	
H-06 51 49.9	
48.9N 153.7E	
h ABOUT 127KM	
COL IP	06 58 25.5
KIP EP	07 00 09.0
FT	50 00.0
HHM FP	07 01 25.3

Date and Station	Phase (GCT)
	h m s
BUT E(P)	07 01 40.0
BCN EP	07 02 17.0
F	02 26.5
EPP	02 53.5
F	03 03.9
GCA IP	07 02 25.0
TUC EP	07 02 47.6
AUG 12	
COL FP	10 57 01.0
AUG 12	
H-12 47 46.9	
11.4N 086.1W	
h ABOUT 135KM	
TUC E(P)	12 53 51.0
AUG 12	
COL IP	13 07 18.2
AUG 12	
TUC FP	14 48 17.0
AUG 12	
COL IP	15 52 22.2
AUG 12	
HHM EP	18 47 56.7
E	48 31.0
AUG 12	
HHM EP	19 41 59.4
I	42 19.0
AUG 12	
COL IP	19 43 53.2
AUG 12	
ALQ E(P)	20 28 31.0
AUG 12	
TUC FP	21 03 30.4
AUG 12	
GCA FP	22 00 42.9
ES	01 16.4
AUG 13	
H-00 31 14.1	
05.4S 154.3E	
h ABOUT 383KM	
GUA IP	00 35 30.0
ES	38 48.0
KIP IP	00 40 03.2
EPP	41 20.0
IS	47 10.0
I	49 16.0
FL	53 18.0
HON IP	00 40 03.5
IPP	41 20.0
IS	47 10.0
I	49 22.0
FL	53 22.0
COL IP	00 42 51.4

Date and Station	Phase	Phase (GCT) h m s
SIT	EP	00 43 06.0
	EpP	44 34.0
	E(S)	52 54.4
UKI	E(P)	00 43 22.0
	EpP	44 50.4
FUR	IP	00 43 48.2
	IpP	45 17.1
BCN	EP	00 43 50.7
	IpP	45 21.5
	EPP	47 42.6
	ISKS	53 53.7
	ESKKS	54 14.0
	ES	54 37.0
	ESP	55 46.8
	IP'P'	01 09 19.3
HHM	EP	00 43 55.2
	I	43 57.7
	IpP	45 25.9
	ESKS	52 53.9
	ES	53 59.1
	EPKKP	01 00 46.4
	EP'P'	09 00.9
BUT	E(P)	00 44 01.0
	E(pP)	45 27.8
	ISKS	54 01.8
TUC	E(P)	00 44 04.0
	E(pP)	45 35.7
	EPP	48 04.0
	EpPP	49 27.0
	E(SKS)	54 09.5
	EPKKP	01 00 44.6
	EP'P'	08 56.3
GCA	EP	00 44 04.4
ALQ	EP	00 44 22.0
	EpP	45 50.0
	ES	53 20.
RCD	EP	00 44 30.0
	EpP	46 00.0
	EsP	46 38.0
	ESKS	54 34.0
	ESP	57 15.0
SJP	EP'	00 49 50.0
	IP'	49 57.0
	EpP'	51 29.0
	F	51 35.4
	I	52 26.0
	FSKP	52 58.5
	E	53 52.5
AUG 13		
BOZ	EP	00 59 03.0
	I	01 00 30.0
AUG 13		
FUR	IP	02 09 01.2
AUG 13		
BOZ	EP	02 10 04.0

Date and Station	Phase	Phase (GCT) h m s
AUG 13		
H-04 20 54.6		
54.4N 158.7E		
h ABOUT 033KM		
COL	EP	04 26 45.0
FUR	IP	04 30 36.4
ALQ	E(P)	04 31 34.0
AUG 13		
H-04 28 23.2		
06.0S 130.4E		
h ABOUT 127KM		
GUA	EP	04 33 29.5
	I	33 35.5
	EPP	34 09.5
COL	EP	04 41 17.0
FUR	EP'	04 46 41.4
ALQ	EP'	04 47 00.0
BOZ	EP'	04 47 17.0
AUG 13		
ALQ	E(P)	06 28 58.0
AUG 13		
H-06 35 39.0		
42.2N 126.1W		
h ABOUT 033KM		
UKI	E(P)	06 36 33.1
FUR	IP	06 37 38.1
BUT	EP	06 38 09.5
HHM	EP	06 38 11.1
BOZ	EP C	06 38 16.0
GCA	EP	06 38 36.7
TUC	EP	06 39 21.2
RCD	EP	06 39 31.0
ALQ	E(P)	06 39 35.0
AUG 13		
H-08 38 11.4		
59.7N 145.3W		
h ABOUT 033KM		
COL	IP	08 39 31.2
HHM	EP	08 42 59.8
BOZ	EP	08 43 24.0
FUR	EP	08 43 55.9
ALQ	E(P)	08 45 06.0
AUG 13		
H-08 50 46.0		
42.3N 125.5W		
h ABOUT 033KM		

Date and Station	Phase	Phase (GCT) h m s
FUR	IP	08 52 39.8
BUT	E(P)	08 53 08.0
BOZ	EP	08 53 18.3
RCD	E(P)	08 54 23.0
TUC	E(P)	08 54 27.0
AUG 13		
BOZ	EP	09 32 10.9
HHM	EP	09 32 16.2
AUG 13		
COL	IP	10 22 16.1
AUG 13		
COL	EP	10 25 35.0
AUG 13		
H-10 28 05.8		
19.2N 109.0W		
h ABOUT 033KM		
TUC	EP	10 31 12.4
ALQ	EP	10 31 52.0
GCA	EP	10 32 10.4
FUR	IP	10 32 49.7
BOZ	EP	10 33 41.5
AUG 13		
H-10 38 05.0		
34.2N 025.7E		
h ABOUT 033KM		
HHM	EP	10 51 06.6
AUG 13		
BCN	EP	10 47 10.0
	E	47 28.0
AUG 13		
H-10 48 34.5		
19.3S 177.6W		
h ABOUT 551KM		
TUC	EP	10 59 59.2
ALQ	EP	11 00 20.0
BOZ	EP	11 00 27.0
AUG 13		
COL	EP	12 44 23.0
AUG 13		
TUC	E(P)	14 52 53.7
AUG 13		
EUR	EP	15 54 07.2
AUG 13		
H-16 27 35.4		
19.5N 155.4W		
h ABOUT 011KM		
HON	IP	16 28 24.1
	IS	28 58.0

Date and Station	Phase	Phase (GCT) h m s
KIP	IP	16 28 24.8
FUR	EP	16 35 07.5
COL	E(P)	16 35 53.5
AUG 13		
H-16 37 17.3		
05.9S 081.1W		
h ABOUT 033KM		
ALQ	EP	16 40 49.0
	F	40 56.0
BOZ	EP C	16 42 11.0
AUG 13		
GUA	IP	17 25 23.8
	ES	25 43.5
AUG 13		
BCN	E(P)	21 43 42.5
	FL	44 13.0
AUG 13		
H-21 51 01.7		
46.5N 112.2W		
h ABOUT 015KM		
BUT	IP	21 51 14.6
BOZ	IP C	21 51 21.2
	I(S)	51 31.5
BZM	EP D	21 51 23.5
HHM	EP	21 51 38.9
	I	51 40.0
	IS	52 08.1
FUR	E(P)	21 52 52.9
AUG 13		
TUC	E(P)	23 10 40.7
AUG 14		
ALQ	E(P)	03 12 20.0
AUG 14		
BOZ	E(P)	03 42 15.0
	E	42 23.5
	FL	43 21.0
BZM	E(P)	03 42 21.0
HHM	E(P)	03 43 03.2
	F	44 41.2
SLC	E(P)	03 43 14.3
	F	44 07.0
AUG 14		
H-03 53 40.6		
16.7N 095.6W		
h ABOUT 033KM		
ALQ	EP	03 58 20.0
TUC	EP	03 58 20.2
AUG 14		
BOZ	E(P)	05 13 23.0
	FL	14 21.0

Date and Station	Phase (GCT)
	h m s
AUG 14	
ALQ E(P)	05 33 46.0
E(S)	34 12.0
AUG 14	
H-07 08 55.9	
9.8S 123.8E	
h ABOUT 033KM	
EUR IP'	07 27 46.7
ALQ EP'	07 28 03.0
AUG 14	
TUC E(P)	10 36 34.5
AUG 14	
ALQ E(P)	11 57 28.0
EUR E(P)	11 59 35.0
AUG 14	
BCN IP	14 54 05.7
IS	54 08.0
AUG 14	
COL FP	16 27 05.0
BOZ FP	16 30 27.0
EUR EP	16 30 34.6
AUG 14	
HHM E(P)	16 58 47.2
COL IP	16 59 57.5
AUG 14	
EUR FP	17 37 42.4
AUG 14	
GUA FP	17 48 28.5
AUG 14	
HHM IP	19 04 07.9
AUG 14	
H-19 25 38.2	
.4N 079.9W	
h ABOUT 102KM	
SJP EP	19 30 28.0
ALQ IP	19 33 24.0
E	33 31.0
TUC E(P)	19 33 30.0
BOZ FP	19 34 45.0
AUG 14	
H-21 27 41.6	
7.4N 036.8W	
h ABOUT 033KM	
ALQ FP	21 38 49.0
TUC E(P)	21 39 09.0
BOZ EP	21 39 16.0
HHM EP	21 39 25.6
EUR IP	21 39 34.9

Date and Station	Phase (GCT)
	h m s
AUG 14	
BCN IP	21 35 35.7
I	35 42.9
EUR EP	21 36 25.7
AUG 14	
H-21 48 31.2	
18.8S 168.2E	
h ABOUT 026KM	
EUR EP	22 01 36.2
AUG 14	
BOZ EP	23 04 42.0
AUG 14	
HHM EP	23 35 16.9
AUG 15	
H-02 29 28.4	
50.7N 179.4E	
h ABOUT 033KM	
COL FP	02 34 23.0
BOZ FP	02 37 39.3
I	37 45.5
EUR IP	02 37 47.3
AUG 15	
BOZ E(P)	02 45 28.0
I	45 33.5
IL	46 29.0
AUG 15	
H-03 34 50.8	
05.5S 104.1E	
h ABOUT 033KM	
EUR EP'	03 53 58.4
ALQ EP'	03 54 16.0
AUG 15	
BOZ EP	03 56 55.7
E	56 54.0
F	04 00 25.0
HHM FP	03 56 59.8
E	04 01 10.8
E	04 40.3
AUG 15	
EUR EP	03 57 25.9
ALQ E(P)	03 57 43.0
H-04 10 09.3	
4.1S 104.7E	
h ABOUT 017KM	
BOZ EP'	04 29 21.0
E	29 24.5
AUG 15	
TUC E(P)	06 48 43.6

Date and Station	Phase (GCT)
	h m s
AUG 15	
COL FP	08 02 21.0
AUG 15	
COL EP	08 46 46.0
AUG 15	
EUR EP	09 02 55.7
AUG 15	
H-10 03 57.1	
10.8N 081.6W	
h ABOUT 033KM	
BHP IP	10 04 39.0
IS	05 22.0
ALQ EP	10 10 33.0
AUG 15	
BHP IP	11 03 48.0
IS	04 27.0
AUG 15	
COL IP	11 25 27.7
AUG 15	
BHP IP	11 50 07.0
IS	50 48.0
ALQ FP	11 56 07.0
AUG 15	
H-14 43 03.1	
17.0N 088.0W	
h ABOUT 039KM	
BOZ E(P)	14 50 28.0
AUG 15	
BOZ E(P)	15 17 10.0
AUG 15	
COL EP	15 40 04.0
E	40 56.0
AUG 15	
TUC FP	17 22 11.4
FL	22 31.0
ALQ FP	17 22 35.0
AUG 15	
COL EP	17 25 39.0
H-17 38 05.1	
44.3N 110.7W	
h ABOUT 033KM	
BOZ IP D	17 38 29.9
IL	38 52.0
BZM EP	17 38 30.0
BUT E(P)	17 38 32.0
EL	39 10.1
HHM EP	17 39 15.2
EUR FP	17 39 38.2
AUG 15	
TUC EP	18 02 35.5

Date and Station	Phase (GCT)
	h m s
AUG 15	
EUR IP	18 38 44.5
AUG 15	
COL FP	18 45 38.0
AUG 15	
HHM IP	20 04 55.2
I	05 00.6
AUG 15	
H-21 22 03.8	
06.7N 073.4W	
h ABOUT 175KM	
BHP IP	21 23 37.0
IS	25 02.0
SJP E(P)	21 25 05.0
FS	27 25.0
ALQ EP	21 29 35.0
EPP	30 12.0
TUC FP	21 29 49.3
BCN FP	21 30 27.0
EUR IP	21 30 44.5
BOZ IP	21 30 49.0
HHM FP	21 31 10.5
CSC EPCP	21 31 33.0
AUG 15	
HHM F(P)	22 44 40.5
AUG 15	
BOZ F(P)	22 46 16.0
AUG 15	
SIT E(P)	22 49 58.6
AUG 16	
BOZ FP	00 30 47.0
AUG 16	
EUR IP	01 05 18.6
AUG 16	
EUR IP	02 14 04.9
IL	15 24.0
AUG 16	
H-02 57 05.6	
61.6N 150.2W	
h ABOUT 063KM	
COL IP	02 57 59.3
HHM EP	03 02 17.3
ALQ E(P)	03 04 21.5
AUG 16	
TUC E(P)	03 07 53.2
AUG 16	
TUC E(P)	05 36 17.0
AUG 16	
HHM E(P)	07 32 47.5

Date and Station	Phase (GCT)
	h m s
AUG 16	
BOZ EP	07 54 56.0
AUG 16	
H-11 08 00.2	
5.9S 151.4E	
h ABOUT 054KM	
FUR IP	11 21 22.6
AUG 16	
ALQ E(P)	11 38 59.0
AUG 16	
H-11 40 46.5	
40.3N 142.2E	
h ABOUT 074KM	
COL EP	11 49 04.0
BOZ IP D	11 52 04.0
I	52 07.0
EpP	52 21.0
EUR EP	11 52 12.3
BCN EP	11 52 29.8
RCD EP	11 52 36.0
TUC E(P)	11 52 54.5
EpP	53 13.3
ALQ EP	11 53 01.0
EpP	53 19.0
AUG 16	
H-12 34 34.8	
12.0N 088.6W	
h ABOUT 033KM	
CSC EP	12 39 40.0
ALQ EP	12 40 26.0
TUC EP	12 40 36.0
BOZ E(P)	12 41 00.0
E	43 53.0
AUG 16	
H-12 38 20.6	
62.1N 147.3W	
h ABOUT 056KM	
COL IP	12 39 05.1
AUG 16	
EUR EP	19 32 49.5
AUG 16	
GUA EP	19 38 27.4
ES	38 38.0
AUG 16	
H-19 40 53.9	
15.0S 175.8W	
h ABOUT 332KM	
BCN EP	19 52 11.5
EUR IP	19 52 16.3
TUC EP	19 52 18.5

Date and Station	Phase (GCT)
	h m s
COL IP	19 52 40.5
ALQ EP	19 52 41.0
BOZ IP D	19 52 47.3
I	53 04.0
AUG 16	
H-20 36 00.0	
52.2N 170.3E	
h ABOUT 033KM	
COL IP	20 41 19.0
HHM EP	20 44 24.9
BOZ IP	20 44 48.0
EUR IP	20 44 58.7
TUC EP	20 45 57.2
AUG 16	
H-21 28 49.1	
39.7N 052.6E	
h ABOUT 033KM	
COL EP	21 40 27.0
BOZ EP	21 42 06.0
AUG 17	
H-00 17 40.9	
35.0N 026.0E	
h ABOUT 018KM	
RCD EP	00 30 35.0
HHM EP	00 30 39.6
AUG 17	
SJP IP	05 33 12.4
ES	33 28.5
AUG 17	
BUT E(P)	07 25 33.0
FL	25 49.9
AUG 17	
TUC EP	07 49 24.0
AUG 17	
ALQ EP	08 25 37.0
E	25 45.0
AUG 17	
H-09 07 03.8	
52.0N 030.0W	
h ABOUT 042KM	
RCD E(P)	09 15 38.0
HHM EP	09 16 03.7
BOZ IP C	09 16 07.4
E	16 15.0
BUT FP	09 16 09.9
ALQ FP	09 16 38.0
E	16 46.0
EUR IP	09 16 54.8

Date and Station	Phase (GCT)
	h m s
BCN E(P)	09 17 06.7
TUC EP	09 17 07.4
AUG 17	
BOZ EP	09 51 13.0
AUG 17	
ALQ FP	10 17 42.0
AUG 17	
H-11 45 01.2	
18.0S 178.3W	
h ABOUT 648KM	
KIP EP	11 52 15.0
EUR I(P)	11 55 14.3
BCN EP	11 56 10.5
E	56 15.0
TUC EP	11 56 15.5
COL EP	11 56 34.0
ALQ EP	11 56 37.0
EpP	58 51.0
BUT EP	11 56 41.1
HHM EP	11 56 42.0
BOZ IP C	11 56 43.0
E	57 29.0
AUG 17	
H-11 51 19.3	
46.3N 151.9E	
h ABOUT 033KM	
COL EP	11 58 28.0
HHM FP	12 01 23.0
BOZ EP C	12 01 43.5
EUR IP	12 01 53.0
BCN EP	12 02 12.2
E(pP)	02 19.5
E(sP)	02 24.6
RCD EP	12 02 19.0
EpP	02 26.0
TUC EP	12 02 41.6
EsP	02 54.5
ALQ IP	12 02 47.0
EpP	02 54.0
HON EL	12 12 54.0
AUG 17	
H-12 41 57.7	
50.0N 171.8W	
h ABOUT 033KM	
BOZ FP	12 49 26.0
EUR IP	12 49 32.4
TUC E(P)	12 50 34.8

Date and Station	Phase (GCT)
	h m s
AUG 17	
TUC E(P)	13 08 21.3
AUG 17	
H-14 54 01.4	
42.6N 142.8E	
h ABOUT 033KM	
COL IP	15 02 06.5
HHM IP	15 04 53.2
I	05 07.9
BOZ IP	15 05 12.5
IpP	05 25.5
EUR IP	15 05 21.9
BCN FP	15 05 39.2
E	06 06.5
F	06 19.2
TUC EP	15 06 06.3
AUG 17	
H-15 15 18.9	
72.2N 001.7E	
h ABOUT 033KM	
COL FP	15 23 07.0
HHM FP	15 24 23.9
BOZ FP	15 24 39.5
F	28 58.0
EUR IP	15 25 28.1
ALQ EP	15 25 40.0
FPP	27 57.0
BCN EP	15 25 48.7
TUC FP	15 26 04.2
AUG 17	
BOZ IP	16 15 01.0
AUG 17	
H-16 38 44.4	
51.5N 177.8E	
h ABOUT 042KM	
COL FP	16 43 39.0
HHM EP	16 46 37.3
BOZ IP	16 46 59.5
EUR IP	16 47 09.5
BCN IP C	16 47 32.0
E	48 01.0
TUC FP C	16 48 08.6
ALQ IP	16 48 14.0
F	48 18.0
AUG 17	
BCN IP	17 16 14.7

Date and Station	Phase (GCT)
	h m s
AUG 17	
BOZ EP	18 03 22.3
AUG 17	
COL EP	18 12 52.0
AUG 17	
H-19 05 44.0	
12.4N 086.8W	
h ABOUT 116KM	
ALQ IP	19 11 34.0
BOZ EP	19 13 03.5
AUG 17	
H-20 17 26.6	
27.8S 070.5W	
h ABOUT 033KM	
BOZ EP	20 29 46.0
AUG 17	
H-21 41 45.9	
51.7N 167.7W	
h ABOUT 033KM	
HHM EP	21 48 27.5
EUR IP	21 48 58.4
BCN EP	21 49 22.7
TUC EP	21 50 01.8
E	50 11.0
ALQ EP	21 50 08.0
E	51 45.0
AUG 17	
H-22 02 35.1	
24.5S 176.8W	
h ABOUT 033KM	
TUC E(P)	22 15 07.7
ALQ E(P)	22 15 32.5
E	15 52.0
BOZ EP	22 15 39.8
E	16 03.0
AUG 17	
HHM E(P)	22 30 36.0
I	31 17.2
AUG 17	
GUA IP	22 34 17.3
IS	34 30.6
AUG 17	
H-22 33 43.2	
33.1N 115.8W	
h ABOUT 014KM	
BCN EP	22 34 41.8
IL	35 19.3
TUC EP	22 34 53.7
EUR EP	22 35 36.7
AUG 17	
BOZ FP	22 35 40.1

Date and Station	Phase (GCT)
	h m s
AUG 17	
H-22 47 32.4	
52.1N 030.1W	
h ABOUT 036KM	
HHM EP	22 56 32.3
BOZ IP C	22 56 36.3
I	56 39.7
BUT E(P)	22 56 37.0
EUR IP	22 57 23.0
AUG 17	
COL FP	23 39 08.0
AUG 18	
H-00 26 51.8	
7.2S 074.4W	
h ABOUT 156KM	
SJP FP	00 32 19.5
CSC EP	00 34 27.0
ALQ IP	00 35 45.0
EPP	36 20.0
F	36 36.0
TUC IP D	00 35 50.2
IPP	36 26.9
BCN EP	00 36 26.4
EPP	37 03.7
EUR IP	00 36 46.1
HHM IP	00 37 19.6
COL IP	00 39 32.8
AUG 18	
H-02 13 37.2	
40.3N 125.7W	
h ABOUT 015KM	
UKI EP	02 14 16.4
EUR IP	02 15 29.0
BUT E(P)	02 16 18.0
BOZ EP	02 16 24.0
TUC EP	02 17 06.4
ALQ EP	02 17 28.0
RCD EP	02 17 35.0
AUG 18	
BUT FP	04 05 40.6
EL	06 00.6
AUG 18	
H-04 35 43.6	
42.8N 145.3E	
h ABOUT 033KM	
COL EP	04 43 39.0
BOZ EP	04 46 45.0
I	47 01.0

Date and Station	Phase (GCT)
	h m s
EUR EP	04 46 53.5
AUG 18	
H-04 44 58.0	
26.4S 071.5W	
h ABOUT 008KM	
BHP IP C	04 52 02.0
I	53 53.0
SJP IP C	04 53 13.6
I	53 21.0
E(PP)	54 56.0
CSC EP	04 55 13.0
F	55 23.0
E(S)	05 03 22.0
TUC EP C	04 56 07.8
ES	05 05 16.0
EP'P'	24 09.0
GCA IP	04 56 34.1
BCN IP C	04 56 38.2
F	56 46.8
EPP	58 59.0
EP'P'	05 24 05.5
FP'P'	24 19.0
RCD IP	04 56 46.0
E	56 53.0
EUR IP	04 56 56.3
EPKKP	05 15 56.5
EP'P'	23 55.3
BOZ IP C	04 57 11.5
ES	05 07 12.0
EPKKP	15 54.0
UKI EP	04 57 16.0
BUT IP	04 57 16.4
ES	05 07 23.5
HHM IP C	04 57 28.0
ES	05 06 31.7
HON EP	04 58 28.0
EPP	05 02 24.0
E	09 24.0
ES	10 04.0
EPS	11 03.0
EPPS	11 58.0
ESS	16 34.0
EL	28 39.0
KIP EP	04 58 28.0
EPP	05 02 23.0
E	09 22.0
ES	09 58.0
EPS	11 06.0
EPPS	11 58.0
ESS	16 28.0
EL	28 40.0
COL EP	04 59 20.0
GUA IP'	05 04 29.4
AUG 18	
ALQ FP	04 50 37.0

Date and Station	Phase (GCT)
	h m s
AUG 18	
BOZ FP	05 15 54.0
AUG 18	
BOZ FP	05 19 26.0
IL	19 59.5
AUG 18	
COL IP	06 25 25.0
EUR EP	06 30 31.5
AUG 18	
ALQ FP	07 51 34.0
AUG 18	
ALQ E(P)	08 32 48.0
AUG 18	
H-08 47 18.2	
45.1N 110.5W	
h ABOUT 033KM	
BZM EP	08 47 32.2
IL	47 45.0
BOZ IP C	08 47 32.5
I(S)	47 45.5
BUT IP	08 47 45.0
IL	48 05.5
HHM IP	08 48 21.0
EUR IP	08 49 01.6
AUG 18	
H-11 09 43.4	
00.5N 067.2E	
h ABOUT 033KM	
BOZ EP'	11 29 00.0
E	31 29.0
EUR EP'	11 29 11.2
BCN FP'	11 29 15.5
ALQ IP'	11 29 17.5
FP'	29 25.0
TUC FP'	11 29 24.2
AUG 18	
BCN IP	13 06 48.2
AUG 18	
H-15 26 11.4	
05.7N 058.0E	
h ABOUT 033KM	
BOZ FP'	15 45 17.5
FPP	47 20.0
EUR IP'	15 45 30.8
TUC EP'	15 45 31.8
ALQ EP'	15 45 34.0
AUG 18	
ALQ E(P)	15 30 49.0

Date and Station	Phase	(GCT)
		h m s
AUG 18		
COL	EP	15 49 22.0
AUG 18		
EUR	IP	17 23 00.6
AUG 18		
TUC	EP	21 53 05.0
	EL	53 24.0
AUG 18		
TUC	EP	22 04 12.1
AUG 18		
COL	IP	22 04 36.0
AUG 19		
COL	IP	00 11 33.0
AUG 19		
TUC	EP	01 26 51.8
AUG 19		
ALQ	EP	03 11 51.0
AUG 19		
ALQ	IP	03 14 30.0
AUG 19		
TUC	EP	06 00 52.1
ALQ	EP	06 01 13.0
AUG 19		
SJP	IP	06 51 08.0
	IS	51 31.2
AUG 19		
TUC	E(P)	06 51 38.0
AUG 19		
SJP	EP	07 03 08.7
	ES	03 26.0
AUG 19		
TUC	EP	08 05 25.5
AUG 19		
GUA	IP	09 17 46.1
	ES	17 56.0
AUG 19		
H-09 33 10.0		
28.2N 052.6E		
h ABOUT 050KM		
COL	EP	09 45 45.0
HHM	E(P)	09 47 05.0
BOZ	E(P)	09 47 26.0
ALQ	EP'	09 51 36.0
TUC	EP'	09 51 53.0
AUG 19		
ALQ	E(P)	10 02 25.0
EUR	EP	10 02 37.0
AUG 19		
BOZ	E(P)	13 09 45.0

Date and Station	Phase	(GCT)
		h m s
AUG 19		
BCN	EP	13 12 31.5
AUG 19		
H-14 00 37.8		
6.9S 075.5W		
h ABOUT 014KM		
ALQ	IP	14 09 41.0
	E	09 46.0
BOZ	EP	14 10 56.0
AUG 19		
KIP	EP	14 50 50.0
	ES	51 20.0
AUG 19		
H-15 20 13.9		
28.2N 052.7E		
h ABOUT 052KM		
COL	EP	15 32 50.0
AUG 19		
SJP	IP	15 22 57.0
	I(S)	23 11.8
AUG 19		
H-16 00 00.1		
37.1N 116.0W		
h ABOUT 000KM		
BCN	IP C	16 00 28.7
	E(S)	00 50.5
EUR	IP	16 00 40.3
	I	07 41.9
GCA	E(P)	16 01 04.4
TUC	E(P)	16 01 38.3
BOZ	EP	16 02 20.0
AUG 19		
SJP	IP	16 23 36.5
	IS	23 59.5
AUG 19		
GUA	EP	18 58 32.0
	ES	59 32.0
AUG 19		
ALQ	EP	19 03 20.0
AUG 19		
GUA	IP	18 58 33.0
	IS	59 29.0
AUG 19		
COL	EP	19 53 47.0
AUG 19		
BOZ	IP	20 14 39.8
AUG 19		
H-20 17 02.5		
5.7S 152.8E		
h ABOUT 055KM		
COL	EP	20 29 21.0

Date and Station	Phase	(GCT)
		h m s
AUG 19		
BCN	E(P)	21 48 37.0
	EL	49 07.8
AUG 19		
ALQ	E(P)	22 02 25.0
	E(S)	03 04.0
TUC	E(P)	22 03 19.2
AUG 19		
BOZ	EP	22 30 28.8
AUG 19		
ALQ	IP D	22 41 16.0
	E	41 32.0
AUG 19		
BOZ	EP	22 42 37.0
AUG 19		
RCD	E(P)	23 05 36.0
	E(S)	05 36.0
AUG 20		
ALQ	E(P)	00 22 43.5
AUG 20		
ALQ	IP	00 35 33.0
	E	35 49.0
	E	35 55.0
EUR	IP	00 36 41.2
AUG 20		
COL	EP	01 08 45.0
AUG 20		
COL	EP	01 25 11.0
AUG 20		
ALQ	EP	01 43 09.0
AUG 20		
H-02 08 15.8		
72.1N 001.4E		
h ABOUT 033KM		
COL	EP	02 16 04.0
BUT	EP	02 17 33.9
BOZ	EP	02 17 36.0
EUR	IP	02 18 25.1
ALQ	EP	02 18 37.0
BCN	EP	02 18 45.5
TUC	EP	02 19 01.5
AUG 20		
H-03 56 29.2		
63.9N 020.5W		
h ABOUT 033KM		
COL	IP	04 04 49.0
BOZ	EP	04 05 27.6
ALQ	IP	04 06 17.0
	E	06 29.0

Date and Station	Phase	(GCT)
		h m s
EUR	IP	04 06 19.7
TUC	EP	04 06 45.7
AUG 20		
H-04 18 01.3		
04.1N 095.4E		
h ABOUT 093KM		
EUR	EP'	04 37 03.7
TUC	EP'	04 37 15.7
ALQ	EP'	04 37 16.0
AUG 20		
BCN	EP	04 40 27.1
TUC	EP	04 40 43.7
	E	40 51.5
ALQ	EP	04 40 44.0
	E	40 53.0
AUG 20		
H-05 08 50.3		
28.1N 052.6E		
h ABOUT 047KM		
COL	EP	05 21 27.0
TUC	EP'	05 27 33.8
AUG 20		
BOZ	E(P)	05 26 27.0
AUG 20		
H-05 39 47.7		
28.2N 052.6E		
h ABOUT 052KM		
COL	IP	05 52 22.6
TUC	EP'	05 58 29.8
AUG 20		
TUC	E(P)	07 02 52.3
AUG 20		
H-07 25 09.3		
18.0N 098.4W		
h ABOUT 060KM		
TUC	EP	07 29 18.3
ALQ	IP	07 29 21.0
	EsP	29 45.0
BCN	EP	07 30 11.7
	EpP	30 32.2
EUR	IP	07 30 40.6
BOZ	IP	07 31 10.8
COL	IP	07 34 50.9
AUG 20		
H-08 26 52.3		
11.7N 087.2W		
h ABOUT 025KM		
BOZ	EP	08 34 24.0

Date and Station	Phase (GCT)
	h m s
AUG 20	
H-08 32 43.1	
29.7S 177.9W	
h ABOUT 080KM	
RCD I(P)	08 45 16.0
TUC EP	08 45 29.5
AUG 20	
TUC E(P)	08 36 04.4
AUG 20	
H-08 37 47.1	
14.9N 060.4W	
h ABOUT 065KM	
SJP IP C	08 39 24.2
IS	40 35.0
ALQ IP C	08 46 05.0
E	46 10.0
E	47 42.0
TUC F(P)	08 46 28.3
GCA F(P)	08 46 40.5
BOZ IP	08 46 56.5
BCN IP	08 46 58.0
BUT E(P)	08 47 02.1
FUR IP	08 47 08.3
COL IP	08 49 25.5
AUG 20	
COL FP	12 16 03.0
AUG 20	
ALQ FP	13 09 00.0
F	10 35.0
FUR IP	13 09 00.2
TUC FP	13 09 01.0
AUG 20	
H-14 03 34.4	
61.4N 147.5W	
h ABOUT 035KM	
COL FP	14 04 29.0
TUC FP	14 10 46.2
E	10 56.2
AUG 20	
BOZ F(P)	15 33 57.0
FL	34 28.0
AUG 20	
COL FP	16 17 33.0
AUG 20	
H-16 29 58.5	
72.3N 001.7E	
h ABOUT 033KM	
BOZ EP	16 39 19.0
FUR IP	16 40 07.8

Date and Station	Phase (GCT)
	h m s
AUG 20	
COL IP	18 38 37.8
AUG 20	
BOZ IP	21 30 51.2
IL	30 56.5
AUG 20	
SJP IP	21 36 32.5
IS	36 50.5
AUG 20	
FUR IP	22 32 48.3
AUG 20	
TUC EP	22 44 24.8
EL	44 51.0
AUG 20	
H-22 54 48.4	
28.7N 052.9E	
h ABOUT 080KM	
ALQ EP'	23 13 27.0
AUG 20	
COL FP	23 58 11.0
AUG 21	
COL EP	00 58 52.0
AUG 21	
SJP IP D	01 01 31.4
IS	01 41.4
AUG 21	
H-02 09 41.5	
23.0S 069.0W	
h ABOUT 112KM	
ALQ EP	02 20 29.0
E	21 06.0
BOZ EP	02 21 32.0
AUG 21	
COL IP	03 07 38.0
AUG 21	
H-03 29 18.7	
13.9N 093.0W	
h ABOUT 033KM	
ALQ E(P)	03 34 35.0
TUC EP	03 34 36.8
EUR IP	03 35 49.5
BOZ EP	03 36 14.2
COL EP	03 39 44.0
AUG 21	
COL FP	06 23 20.0
AUG 21	
H-06 24 16.3	
55.0N 158.2W	
h ABOUT 033KM	
COL EP	06 26 57.0
FUR FP	06 30 41.8

Date and Station	Phase (GCT)
	h m s
AUG 21	
FUR FP	06 35 25.2
AUG 21	
ALQ E(P)	06 46 48.0
AUG 21	
H-07 59 17.0	
28.3N 052.5E	
h ABOUT 054KM	
COL EP	08 11 51.0
BOZ FP'	08 17 32.0
AUG 21	
COL IP	08 47 27.8
AUG 21	
BOZ IP	08 47 29.8
AUG 21	
H-10 13 33.4	
19.6S 066.1W	
h ABOUT 199KM	
ALQ IP	10 24 03.0
BCN FP	10 24 38.0
EUR IP	10 24 55.3
BOZ EP	10 25 06.0
AUG 21	
H-10 18 32.2	
17.1N 095.2W	
h ABOUT 033KM	
ALQ EP	10 23 08.0
TUC EP	10 23 12.4
E	24 06.2
AUG 21	
ALQ EP	13 04 04.0
AUG 21	
BUT FP	15 44 50.2
AUG 21	
H-16 49 12.9	
40.1N 040.9E	
h ABOUT 044KM	
COL IP	17 00 50.3
HHM E(P)	17 02 07.0
BOZ F(P)	17 02 13.0
AUG 21	
BOZ EP	17 30 22.0
F	31 04.0
AUG 21	
ALQ E(P)	18 56 04.0
AUG 21	
TUC EP	19 06 21.2
ALQ E(P)	19 07 16.0

Date and Station	Phase (GCT)
	h m s
AUG 21	
BCN E(P)	19 07 53.8
AUG 21	
BCN F(P)	19 09 55.5
FL	11 03.0
EUR EP	19 10 32.3
AUG 21	
TUC E(P)	19 14 03.5
BCN E(P)	19 14 34.0
FL	15 59.0
ALQ F(P)	19 14 42.0
EUR EP	19 15 37.9
AUG 21	
ALQ E(P)	19 30 22.0
AUG 21	
TUC EP	19 35 28.3
EL	35 48.0
AUG 21	
H-19 41 37.5	
30.6N 113.8W	
h ABOUT 015KM	
TUC IP	19 42 25.6
BCN EP	19 42 57.5
I	43 17.0
IL	44 16.0
GCA E(P)	19 43 09.3
ALQ EP	19 43 34.0
EUR IP	19 43 49.6
AUG 21	
BOZ E(P)	19 44 49.5
E	45 14.0
AUG 21	
TUC E(P)	19 52 28.0
AUG 21	
BCN IP	19 54 41.8
I	54 57.0
IL	55 57.4
GCA IP	19 55 01.3
EUR IP	19 55 32.5
I	56 50.5
ALQ EP	19 55 50.0
F	56 25.0
BUT E(P)	19 56 47.0
E	58 08.2
BOZ EP	19 56 55.0
F	57 57.9
HHM E(P)	19 57 01.0
E	57 19.3
PHI E(P)	20 00 15.5

Date and Station	Phase (GCT) h m s
AUG 21	
ALQ EP	19 56 52.0
E	57 09.0
AUG 21	
COL EP	20 01 56.0
AUG 21	
BCN E(P)	20 06 02.5
AUG 21	
ALQ E(P)	20 24 58.0
AUG 21	
ALQ E(P)	20 48 25.0
E(S)	49 03.0
AUG 21	
ALQ EP	21 36 36.0
AUG 21	
EUR EP	21 53 26.2
AUG 21	
GCA IP	21 59 44.0
ES	22 00 05.7
EUR IP	22 00 19.2
ALQ EP	22 00 27.0
AUG 21	
H-22 03 51.6	
37.0N 115.1W	
h ABOUT 033KM	
BCN IP	22 04 11.3
IS	04 26.8
EUR IP	22 04 31.1
GCA IP	22 04 34.7
ES	05 02.2
EL	05 09.2
TUC EP	22 05 18.2
AUG 21	
EUR IP	22 25 59.5
AUG 21	
BCN IP	23 16 21.5
IS	16 36.5
AUG 21	
H-23 58 56.6	
12.2S 110.5E	
h ABOUT 035KM	
BOZ EP'	24 18 08.0
ALQ EP'	24 18 16.0
AUG 22	
TUC E(P)	00 28 27.2
AUG 22	
COL P	01 59 32.3
AUG 22	
EUR EP	02 06 11.9

Date and Station	Phase (GCT) h m s
AUG 22	
BUT EP	02 06 57.8
E	10 05.8
AUG 22	
ALQ E(P)	02 21 22.5
AUG 22	
TUC E(P)	02 27 00.3
AUG 22	
BOZ EP	02 42 33.0
BCN EP	02 42 47.0
ALQ EP	02 42 49.0
TUC EP	02 42 58.4
AUG 22	
TUC E(P)	02 48 04.0
E	48 53.6
BCN E(P)	02 48 38.0
EL	50 04.0
AUG 22	
ALQ E(P)	02 49 49.0
AUG 22	
H-03 03 20.7	
31.5N 114.3W	
h ABOUT 015KM	
TUC IP	03 04 07.1
BCN EP	03 04 30.7
I	04 53.1
GCA IP	03 04 51.3
ALQ EP	03 05 11.0
E	05 47.0
EUR IP	03 05 21.7
BOZ EP	03 06 48.6
E	06 53.5
ES	09 44.0
HHM EP	03 07 21.3
GSC E(P)	03 09 08.0
EL	18 09.0
COL EP	03 10 52.0
HON E(P)	03 11 09.0
E	17 08.0
EL	21 23.0
PHI E(L)	03 14 23.0
AUG 22	
TUC E(P)	03 24 21.2
AUG 22	
H-03 28 11.1	
42.9N 104.7W	
h ABOUT 033KM	

Date and Station	Phase (GCT) h m s
BOZ EP	03 29 35.0
E	29 42.9
IL	31 08.0
HHM E(P)	03 30 08.0
E	30 16.0
EL	30 31.0
EUR EP	03 30 23.4
AUG 22	
TUC E(P)	03 43 44.2
BCN E(P)	03 44 47.0
EL	44 48.0
AUG 22	
ALQ E(P)	03 45 42.0
EUR EP	03 45 56.5
AUG 22	
TUC E(P)	03 53 29.3
AUG 22	
TUC E(P)	04 00 30.8
I	00 43.2
BCN E(P)	04 01 10.7
EL	02 21.0
AUG 22	
ALQ E(P)	04 02 09.0
AUG 22	
TUC E(P)	04 39 57.9
BCN E(P)	04 40 19.7
EL	41 38.0
AUG 22	
TUC E(P)	04 50 10.4
AUG 22	
ALQ E(P)	04 51 27.0
AUG 22	
TUC E(P)	04 55 03.0
AUG 22	
TUC EP	04 57 39.0
AUG 22	
TUC E(P)	05 02 08.4
AUG 22	
TUC E(P)	05 06 48.0
AUG 22	
TUC E(P)	05 16 34.0
AUG 22	
H-05 26 05.4	
31.4N 114.4W	
h ABOUT 033KM	
BCN EP	05 27 14.5
EL	28 33.5
GCA EP	05 27 38.1
ALQ E(P)	05 28 00.0

Date and Station	Phase (GCT) h m s
EUR IP	05 28 04.9
I	30 37.6
BOZ E(P)	05 29 38.0
HHM F(P)	05 30 04.0
COL E(P)	05 34 35.0
AUG 22	
H-05 42 38.7	
34.9S 015.1W	
h ABOUT 033KM	
TUC EP'	06 01 01.6
AUG 22	
TUC E(P)	06 38 30.0
AUG 22	
H-07 34 17.2	
32.0N 113.8W	
h ABOUT 015KM	
TUC EP	07 34 56.3
F	35 11.0
BCN EP	07 35 19.7
EL	36 38.3
GCA EP	07 35 39.4
ALQ E(P)	07 36 04.0
EUR IP	07 36 10.4
BOZ E(P)	07 37 43.0
AUG 22	
ALQ E(P)	07 48 21.0
TUC EP	07 49 20.8
AUG 22	
TUC E(P)	08 16 41.7
AUG 22	
COL IP	10 16 55.4
AUG 22	
COL EP	11 52 42.0
AUG 22	
TUC E(P)	11 56 25.2
AUG 22	
H-12 41 22.1	
10.5S 161.6E	
h ABOUT 050KM	
COL IP	12 53 47.4
EUR IP	12 54 22.3
BCN EP	12 54 23.0
AUG 22	
TUC E(P)	14 42 15.7
AUG 22	
BUT E(P)	16 19 20.0
E	21 59.3

Date and Station	Phase (GCT)
	h m s
AUG 22	
TUC E(P)	16 52 10.5
ALQ E(P)	16 52 14.0
AUG 22	
H-17 04 31.2	
51.9N 030.0W	
h ABOUT 033KM	
HHM EP	17 13 31.2
BOZ IP	17 13 35.0
ALQ IP	17 14 05.0
F	14 14.0
EUR IP	17 14 22.1
TUC FP	17 14 35.8
AUG 22	
ALQ FP	17 33 48.0
AUG 22	
H-20 07 51.7	
10.1S 161.7E	
h ABOUT 071KM	
COL IP	20 20 14.0
EUR I(P)	20 20 59.5
AUG 22	
TUC E(P)	20 14 15.5
AUG 22	
BCN E(P)	20 15 47.5
FL	16 56.5
ALQ E(P)	20 16 06.0
AUG 22	
TUC IP	20 39 04.8
FL	39 24.4
ALQ E(P)	20 39 36.0
AUG 22	
TUC E(P)	20 55 45.7
AUG 22	
TUC FP	21 19 14.2
BCN E(P)	21 19 52.2
EL	21 00.6
EUR FP	21 20 32.8
AUG 22	
COL IP	21 23 43.9
AUG 22	
ALQ E(P)	21 20 46.0
AUG 22	
ALQ E(P)	21 26 51.0
AUG 22	
H-22 17 00.0	
37.0N 116.0W	
h ABOUT 000KM	
BCN IP C	22 17 27.0
EUR IP	22 17 40.8
TUC EP	22 18 36.2
ALQ EP	22 18 59.0
E(S)	19 28.0
BOZ EP	22 19 18.0
I	19 54.8
HHM E(P)	22 19 42.0
AUG 22	
UKI E(P)	22 18 59.0
AUG 22	
UKI E(P)	22 28 22.3
EUR IP	22 29 30.0
AUG 22	
BCN E(P)	22 47 48.1
EUR IP	22 48 15.9
AUG 22	
GUA EP	22 53 01.0
AUG 22	
TUC EP	23 09 35.7
AUG 22	
UKI E(P)	23 46 04.0
E	46 09.0
EUR IP	23 47 14.4
AUG 23	
BOZ FP	01 11 07.0
AUG 23	
EUR EP	01 35 09.4
AUG 23	
COL EP	02 34 04.0
AUG 23	
H-02 56 13.3	
59.4N 030.3W	
h ABOUT 033KM	
COL IP	03 04 46.2
BOZ EP	03 04 52.5
ALQ EP	03 05 35.0
E	05 50.0
EUR FP	03 05 43.6
TUC EP	03 06 05.5
AUG 23	
H-04 47 46.4	
59.4N 030.2W	
h ABOUT 033KM	
COL EP	04 56 19.0
BOZ FP	04 56 26.5
ALQ FP	04 57 08.0
E	57 35.0
EUR IP	04 57 16.9
AUG 23	
GUA IP	05 25 02.8
FS	25 18.5
AUG 23	
TUC E(P)	06 40 21.0
AUG 23	
ALQ FP	08 46 20.0
F(S)	46 36.0
AUG 23	
H-09 54 39.9	
33.1N 142.1E	
h ABOUT 033KM	
COL E(P)	10 03 48.9
AUG 23	
ALQ EP	11 08 35.0
AUG 23	
TUC EP	11 52 53.4
EUR EP	11 52 54.9
ALQ FP	11 53 12.0
AUG 23	
COL IP	11 53 23.2
AUG 23	
H-12 23 37.9	
06.9N 073.0W	
h ABOUT 161KM	
ALQ FP	12 31 12.0
TUC FP	12 31 25.8
BCD E(P)	12 31 42.0
BCN EP	12 32 03.0
EUR IP	12 32 20.9
BOZ IP	12 32 25.5
AUG 23	
COL EP	12 25 33.0
EUR EP	12 29 29.5
AUG 23	
H-13 26 25.4	
21.6S 069.6W	
h ABOUT 071KM	
ALQ FP	13 37 08.0
FPP	37 27.0
AUG 23	
H-15 24 05.3	
06.1S 149.4E	
h ABOUT 063KM	
GUA IP	15 28 36.0
IS	32 25.0
HON FP	15 33 52.0
FPP	36 03.0
ES	41 55.0
ESCS	44 13.0
FSS	46 25.0
FL	48 16.0
KIP FP	15 33 54.0
FPP	36 04.0
ES	41 56.0
FSS	46 26.0
FL	48 20.0
COL FP	15 36 28.0
EUR IP	15 37 34.8
BCN FP	15 37 39.0
BOZ EP	15 37 47.0
ALQ EP'	15 42 21.0
AUG 23	
BCN E(P)	15 48 49.0
FL	49 41.0
EUR EP	15 49 30.1
AUG 23	
TUC E(P)	16 26 46.5
AUG 23	
EUR FP	17 29 04.4
AUG 23	
H-17 32 55.6	
10.2N 102.7W	
h ABOUT 033KM	
TUC FP	17 38 00.4
EUR FP	17 39 17.2
AUG 23	
BCN E(P)	18 00 07.8
AUG 23	
EUR IP	20 23 29.6
AUG 23	
COL EP	20 30 56.0
AUG 23	
TUC EP	21 57 23.6
E(L)	57 39.4
ALQ E(P)	21 58 27.0
AUG 23	
H-22 03 26.5	
15.6N 093.9W	
h ABOUT 144KM	
ALQ FP	22 08 13.0
F	08 26.0
F	08 33.0
TUC E(P)	22 08 17.0
AUG 23	
GUA FP	23 25 49.2

Date and Station	Phase (GCT)
	h m s
AUG 23	
COL EP	23 29 37.0
AUG 24	
TUC E(P)	00 16 14.0
BCN E(P)	00 17 20.0
EL	18 14.5
AUG 24	
ALQ EP	00 17 44.0
AUG 24	
TUC E(P)	00 27 21.0
AUG 24	
BCN E(P)	00 29 55.0
AUG 24	
BCN IP	01 21 03.0
IS	21 25.0
EUR IP	01 21 11.0
AUG 24	
H-01 36 23.7	
61.2N 146.8W	
h ABOUT 047KM	
COL IP	01 37 20.8
BOZ EP	01 41 50.0
EUR E(P)	01 42 05.1
TUC E(P)	01 43 32.2
AUG 24	
H-01 51 03.3	
38.8N 112.3W	
h ABOUT 033KM	
GCA IP	01 51 33.0
IS	51 56.3
SLC E(P)	01 51 35.1
EUR IP	01 51 50.1
BCN EP	01 51 56.0
I	52 03.0
IL	52 47.8
ALQ E(P)	01 52 26.0
E(S)	54 04.0
AUG 24	
H-01 55 38.3	
39.1N 112.2W	
h ABOUT 033KM	
GCA I(P)	01 56 03.1
IS	56 26.6
EUR EP	01 56 24.8
BCN E(P)	01 56 26.5
I	56 33.6
EL	57 18.5
ALQ E(P)	01 57 10.0
EL	58 30.0
TUC E(P)	01 57 29.2

Date and Station	Phase (GCT)
	h m s
AUG 24	
H-02 01 33.8	
20.0S 175.7W	
h ABOUT 152KM	
BCN IP	02 13 28.5
TUC EP	02 13 33.8
ALQ EP	02 13 56.0
COL IP	02 14 03.2
BOZ EP	02 14 04.5
AUG 24	
H-05 48 13.3	
60.0N 147.3W	
h ABOUT 033KM	
COL IP	05 49 26.4
AUG 24	
COL EP	05 58 22.0
AUG 24	
H-06 54 26.4	
51.9N 161.8E	
h ABOUT 033KM	
COL IP	07 00 21.3
BOZ IP	07 03 50.9
EUR IP	07 04 02.9
BCD IP	07 04 27.5
TUC EP	07 04 57.7
ALQ EP	07 05 01.5
F	05 11.0
AUG 24	
COL IP	07 36 08.9
AUG 24	
ALQ EP	07 43 20.0
AUG 24	
H-08 31 05.8	
18.4N 068.8W	
h ABOUT 179KM	
SJP IP	08 31 50.0
IS	32 20.5
ALQ EP	08 38 02.0
TUC EP	08 38 25.5
BCN EP	08 38 59.5
BOZ EP	08 39 01.5
EUR EP	08 39 10.9
COL EP	08 41 51.0
AUG 24	
TUC E(P)	09 10 32.8
EL	11 18.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	09 11 30.9
EL	12 21.7
EUR EP	09 11 52.7
AUG 24	
COL IP	09 59 41.0
AUG 24	
TUC E(P)	10 00 20.0
AUG 24	
BOZ EP	10 02 45.6
AUG 24	
H-10 18 58.5	
45.0N 111.4W	
h ABOUT 033KM	
BOZ IP	10 19 09.6
BUT EP	10 19 21.5
IL	19 37.5
HHM E(P)	10 19 56.0
I	20 08.3
IL	20 58.3
EUR E(P)	10 20 40.0
AUG 24	
H-10 37 23.4	
01.5S 078.1W	
h ABOUT 173KM	
BHP IP	10 39 51.0
SJP EP	10 42 13.5
E	42 46.4
CSC E(P)	10 44 03.0
ALQ EP D	10 45 25.0
F	45 34.0
F	45 39.0
EpP	46 04.0
TUC IP D	10 45 30.1
EpP	46 09.2
BUT E(P)	10 45 46.7
I	46 05.5
BCD IP	10 46 05.0
EpP	46 46.0
BCN EP	10 46 08.3
EpP	46 48.5
ESP	47 08.9
EUR IP	10 46 29.5
BOZ IP	10 46 43.0
EpP	47 22.5
COL IP	10 49 29.5
AUG 24	
BUT EP	10 42 27.5
EL	42 56.5
AUG 24	
BOZ IP	10 45 36.0
IL	45 44.0

Date and Station	Phase (GCT)
	h m s
HHM E(P)	10 46 24.0
E	46 35.4
AUG 24	
BOZ IP	10 48 20.0
IL	48 29.2
BUT EP	10 48 31.5
IL	48 48.5
HHM E(P)	10 49 11.0
F	49 19.4
IL	50 09.4
AUG 24	
BUT EP	10 51 00.0
IL	51 17.0
AUG 24	
TUC EP	11 26 04.2
AUG 24	
ALQ EP	12 23 10.0
E(S)	23 23.0
AUG 24	
H-16 42 22.4	
02.0N 079.1W	
h ABOUT 098KM	
ALQ IP	16 50 03.0
E	50 11.0
AUG 24	
TUC EP	17 12 33.3
AUG 24	
H-17 26 15.1	
00.2N 123.8E	
h ABOUT 127KM	
GUA E(P)	17 31 26.0
EUR IP'	17 44 40.7
BOZ IP'	17 44 41.0
E	45 28.0
TUC EP'	17 44 53.2
F	46 27.0
ALQ IP'	17 44 58.0
E	45 06.0
AUG 24	
COL EP	18 16 18.0
AUG 24	
COL EP	20 25 26.0
AUG 24	
BCN IP	20 55 37.0
IS	55 49.6
AUG 24	
H-21 24 48.0	
86.9N 052.0E	
h ABOUT 011KM	
COL IP	21 30 42.9
HHM E(P)	21 33 03.0
BOZ EP	21 33 24.8

Date and Station	Phase (GCT)
	h m s
EUR IP	21 34 12.3
ALQ EP	21 34 43.0
TUC EP	21 35 02.0
AUG 24	
COL IP	21 51 33.0
AUG 24	
H-21 56 54.2	
58.4N 150.3W	
h ABOUT 022KM	
COL FP	21 58 31.5
SIT F(P)	21 58 50.0
HHM FP	22 02 05.2
I	02 13.4
ES	06 25.4
BCN F(P)	22 02 27.5
UKI F(P)	22 02 28.0
BUT IP C	22 02 29.1
BOZ FP	22 02 32.8
ES	07 08.0
EL	11 00.0
EUR IP	22 02 53.8
SLC F(P)	22 02 59.3
RCD IP	22 03 19.0
F(pP)	03 26.5
BCN EP	22 03 25.5
FpP	03 31.9
FPCP	06 11.5
FpPCP	06 18.5
ALQ EP	22 04 06.0
EpP	04 13.0
FPCP	06 26.0
KIP FP	22 04 07.0
ES	09 56.0
EL	14 10.0
TUC FP	22 04 07.3
F	04 12.7
HON F(P)	22 04 10.0
ES	09 57.0
FL	14 05.0
SJP EP	22 08 14.5
PHI F(S)	22 12 32.0
AUG 24	
ALQ F(P)	23 22 13.0
AUG 25	
TUC EP	00 56 53.0
F	57 12.0
AUG 25	
GUA FP	01 11 24.5
ES	11 56.0

Date and Station	Phase (GCT)
	h m s
AUG 25	
BOZ EP	01 23 51.0
AUG 25	
H-04 55 14.1	
24.4S 068.6W	
h ABOUT 123KM	
ALQ E(P)	05 06 09.0
AUG 25	
H-05 46 12.1	
05.4S 147.1E	
h ABOUT 203KM	
GUA E(P)	05 50 20.5
EUR EP	05 59 29.9
HHM F(P)	05 59 36.0
BOZ EP	05 59 44.0
AUG 25	
COL FP	05 54 54.0
AUG 25	
TUC F(P)	07 11 43.5
AUG 25	
GUA IP	07 28 49.0
IS	29 08.0
AUG 25	
H-07 45 47.1	
37.6S 073.7W	
h ABOUT 024KM	
ALQ FP	07 57 48.0
EUR EP	07 58 27.1
AUG 25	
H-08 05 01.6	
35.6N 029.1E	
h ABOUT 045KM	
BOZ EP	08 18 06.0
E	18 13.0
AUG 25	
BOZ E(P)	09 43 09.0
AUG 25	
COL EP	09 59 18.0
BOZ EP	10 03 14.5
EUR IP	10 03 36.9
ALQ FP	10 04 35.0
F	04 38.0
TUC FP	10 04 35.6
AUG 25	
GUA IP	10 53 41.0
E	53 52.5
AUG 25	
H-11 11 53.6	
36.1N 028.7E	
h ABOUT 050KM	

Date and Station	Phase (GCT)
	h m s
COL FP	11 23 56.0
SJP FP	11 24 17.5
HHM E(P)	11 24 46.7
RCD EP	11 24 48.0
BOZ EP	11 24 54.5
EUR EP	11 25 25.7
ALQ FP	11 25 26.0
AUG 25	
H-11 42 59.9	
35.4N 028.9E	
h ABOUT 043KM	
BOZ FP	11 56 05.0
AUG 25	
H-13 47 20.6	
78.2N 126.6E	
h ABOUT 050KM	
COL IP	13 52 59.5
IS	57 40.0
SIT E(P)	13 54 23.8
HHM EP D	13 56 01.0
E	56 17.5
ES	14 03 05.5
BUT EP D	13 56 20.0
ES	14 41.0
BOZ EP D	13 56 24.0
I	56 39.0
EPP	58 24.0
IS	14 03 32.0
RCD EP	13 56 46.0
ESCP	03 30.0
UKI EP	13 56 55.4
SLC IP	13 56 59.0
EUR IP	13 57 03.7
CHK F(P)	13 57 12.1
BCN EP D	13 57 28.6
IpP	57 39.0
ES	14 05 52.5
ESCS	07 25.0
F	08 52.0
PIPI	26 47.0
PHI EP	13 57 34.4
ES	14 05 56.0
ALQ IP D	13 57 43.0
E	58 04.0
ES	14 06 24.0
TUC EP	13 57 53.0
I	57 55.5
EpP	58 06.2
ES	14 06 46.0
ESCS	07 56.0

Date and Station	Phase (GCT)
	h m s
GUA EP	13 57 58.5
F(S)	14 06 16.0
KIP IP	13 58 06.2
ES	14 07 00.0
HON EP D	13 58 07.0
EPP	14 00 34.0
IS	13 06 58.0
ESS	14 11 00.0
EL	14 28.0
CSC IP	13 58 07.0
F(pP)	58 17.0
F(S)	14 07 00.0
HON IP	13 58 07.2
IS	14 06 59.0
SJP FP	13 59 46.0
ES	14 00 39.0
E	02 30.5
F	02 58.0
AUG 25	
SJP IP	14 10 13.0
AUG 25	
EUR IP	14 26 47.5
I	27 07.5
AUG 25	
H-14 37 32.5	
35.7N 029.1E	
h ABOUT 024KM	
COL FP	14 49 40.0
HHM E(P)	14 50 31.0
BOZ FP	14 50 39.0
AUG 25	
GUA IP	15 29 01.8
IS	29 11.0
AUG 25	
COL FP	16 54 18.0
AUG 25	
COL FP	17 27 34.5
AUG 25	
COL IP	17 28 10.1
AUG 25	
ALQ F(P)	18 23 02.0
E(S)	23 42.0
AUG 25	
TUC E(P)	18 49 22.8
AUG 25	
SIT E(P)	19 35 28.3
BOZ E(P)	19 39 29.0
AUG 25	
H-21 03 29.8	
19.5S 176.9W	
h ABOUT 444KM	
TUC F(P)	21 15 04.2

Date and Station	Phase	(GCT) h m s
ALQ	EP	21 15 22.0
COL	EP	21 15 30.0
HON	E(S)	21 17 43.0
	E	21 14.0
	EL	23 00.0
AUG 25		
ALQ	EP	21 51 02.0
AUG 25		
H-22 27 18.5		
18.2N 068.2W		
h ABOUT 096KM		
SJP	EP	22 27 52.2
	IS	28 15.5
ALQ	E(P)	22 34 28.0
AUG 25		
ALQ	E(P)	23 47 38.0
AUG 26		
TUC	EP	01 35 27.6
AUG 26		
TUC	EP	01 39 38.4
AUG 26		
COL	EP	02 27 13.0
AUG 26		
H-03 18 44.1		
52.1N 030.1W		
h ABOUT 033KM		
RCD	E(P)	03 27 17.0
HHM	EP	03 27 41.8
BOZ	IP	03 27 47.2
BUT	E(P)	03 27 49.0
COL	EP	03 28 07.0
SLC	EP	03 28 11.1
ALQ	IP	03 28 18.0
	E	28 25.0
GCA	EP	03 28 28.8
EUR	IP	03 28 34.2
BCN	EP	03 28 47.0
TUC	EP	03 28 48.1
AUG 26		
COL	EP	03 26 07.0
AUG 26		
COL	IP	05 11 58.5
AUG 26		
H-05 40 27.1		
47.2N 148.4E		
h ABOUT 308KM		
COL	IP	05 47 15.6
SIT	E(P)	05 48 17.9
KIP	IP	05 48 50.7
HHM	IP C	05 50 09.4
UKI	E(P)	05 50 14.0
BUT	EP	05 50 27.4
	E(pP)	51 31.8
BOZ	IP	05 50 30.0
	E(pP)	51 36.0
ALQ	E(P)	05 50 32.0
EUR	IP	05 50 40.7
SLC	IP	05 50 50.3
	I	52 00.3
BCN	IP C	05 50 59.8
	I	51 05.8
	IpP	52 09.5
GCA	IP	05 51 06.9
TUC	EP C	05 51 28.7
	EpP	52 39.5
ALQ	IP C	05 51 33.0
	E	51 40.0
	F	51 44.0
	EpP	52 44.0
AUG 26		
H-07 35 55.7		
45.1N 151.0E		
h ABOUT 033KM		
COL	IP	07 43 14.7
EUR	E(P)	07 46 43.9
AUG 26		
H-09 00 19.5		
13.9N 092.6W		
h ABOUT 033KM		
ALQ	E(P)	09 05 39.0
TUC	E(P)	09 05 39.2
AUG 26		
ALQ	E(P)	09 34 34.0
	F	34 40.0
	F	34 46.0
AUG 26		
EUR	EP	10 57 44.5
AIG 26		
KIP	IP	10 58 40.6
	E	59 01.0
AUG 26		
BOZ	EP	11 30 34.0
	F	30 40.5
AUG 26		
H-12 59 31.1		
.2N 126.6E		
h ABOUT 033KM		
ALQ	IP'	13 18 20.0
	E	18 27.0
AUG 26		
BCN	IP	13 05 03.4
	IS	05 06.0
AUG 26		
H-13 21 03.0		
23.3S 179.5W		
h ABOUT 368KM		
TUC	EP	13 33 03.2
AUG 26		
COL	EP	14 03 21.0
AUG 26		
ALQ	E(P)	14 24 20.0
AUG 26		
EUR	IP	16 50 44.7
AUG 26		
H-16 58 51.6		
43.8N 102.2W		
h ABOUT 015KM		
RCD	IP	16 59 09.0
	ES	59 17.0
BOZ	E(P)	17 00 45.0
	I	01 02.0
AUG 26		
H-17 22 55.3		
60.9N 147.9W		
h ABOUT 033KM		
COL	EP	17 23 58.5
AUG 26		
H-19 31 40.8		
20.3S 178.3W		
h ABOUT 510KM		
TUC	EP	19 43 14.3
COL	IP	19 43 36.6
AUG 26		
ALQ	E(P)	20 35 50.0
AUG 26		
BOZ	E(P)	22 04 07.5
	I	04 33.0
AUG 26		
HHM	E(P)	22 05 47.0
AUG 26		
H-23 45 04.5		
57.3N 152.7W		
h ABOUT 018KM		
COL	EP	23 47 02.5
HHM	EP	23 50 26.1
BOZ	EP	23 50 52.9
EUR	IP	23 51 11.7
BCN	EP	23 51 41.0
	E	51 50.0
TUC	EP	23 52 23.2
AUG 27		
BHP	IP	00 31 13.0
	IS	32 00.0
AUG 27		
H-01 34 26.7		
23.7N 143.6E		
h ABOUT 039KM		
GUA	E(P)	01 36 53.0
	I	36 58.5
HHM	EP	01 46 36.1
	E	46 46.9
BOZ	E(P)	01 46 45.0
	I	46 50.0
BUT	EP	01 46 45.2
	I	46 56.2
EUR	IP	01 46 48.2
BCN	EP	01 47 01.0
	E	47 11.5
TUC	EP	01 47 23.2
ALQ	E(P)	01 47 30.0
	E	47 43.0
HON	E(S)	01 51 32.0
	EL	02 02 08.0
AUG 27		
H-03 10 19.4		
54.1N 167.4W		
h ABOUT 033KM		
BOZ	EP	03 17 20.9
EUR	IP	03 17 30.2
ALQ	E(P)	03 18 40.0
AUG 27		
UKI	E(P)	03 34 36.0
AUG 27		
ALQ	EP	04 40 10.0
	F	40 21.0
TUC	E(P)	04 40 24.5
AUG 27		
H-04 45 02.6		
05.6S 133.9E		
h ABOUT 009KM		
GUA	EP	04 50 00.0
ALQ	EP'	05 03 52.0
	E	04 09.0
AUG 27		
COL	IP	05 41 26.5
BOZ	E(P)	05 41 39.0

Date and Station	Phase (GCT)
	h m s
AUG 27	
SJP FP	06 24 40.2
AUG 27	
EUR FP	06 36 39.5
ALQ F(P)	06 37 24.0
AUG 27	
H-07 53 54.8	
17.5S 173.0W	
h ABOUT 033KM	
HON FP	08 01 41.0
FS	08 04.0
FL	11 00.0
KIP FP	08 01 42.0
EL	11 10.0
BCN FP	08 05 45.0
FpP	06 00.8
FsP	06 07.1
TUC FP	08 05 48.2
EUR IP	08 05 51.1
ALQ IP	08 06 13.0
EpP	06 28.0
BUT FP	08 06 21.1
BOZ FP	08 06 22.0
IpP	06 33.0
HHM FP	08 06 22.2
COL FP	08 06 24.9
AUG 27	
H-09 10 54.7	
15.1N 098.8W	
h ABOUT 043KM	
TUC EP	09 15 28.8
ALQ FP	09 15 36.0
F	15 46.0
AUG 27	
TUC F(P)	09 24 24.3
AUG 27	
COL FP	09 50 19.0
AUG 27	
H-09 53 51.0	
65.3N 133.8W	
h ABOUT 033KM	
COL FP	09 55 18.7
SIT F(P)	09 55 50.8
HHM FP	09 58 22.5
FL	10 04 10.2
BUT FP	09 58 48.1
BOZ FP	09 58 55.5
I	59 02.0
F(S)	10 04 24.0

Date and Station	Phase (GCT)
	h m s
EUR EP	09 59 39.9
ALQ IP	10 00 38.0
E	00 43.0
TUC FP	10 00 50.7
AUG 27	
H-10 31 59.7	
63.6N 148.2W	
h ABOUT 106KM	
COL IP	10 32 25.2
SIT FP	10 34 09.6
HHM EP	10 37 06.3
TUC E(P)	10 39 17.0
AUG 27	
H-11 58 41.3	
28.2N 055.7E	
h ABOUT 069KM	
COL FP	12 11 12.0
AUG 27	
H-12 25 22.5	
04.8N 076.2W	
h ABOUT 112KM	
BHP IP D	12 26 38.7
SJP EP	12 29 10.5
I	29 14.0
ALQ IP D	12 32 57.0
F	33 08.0
TUC FP D	12 33 07.8
EUR IP	12 34 05.9
BOZ IP	12 34 14.2
AUG 27	
H-12 56 46.1	
27.5N 055.9E	
h ABOUT 033KM	
COL FP	13 09 25.5
BOZ FP'	13 15 05.0
EUR FP'	13 15 32.5
TUC EP'	13 15 38.8
F	15 47.1
AUG 27	
BOZ FP	14 20 26.0
AUG 27	
ALQ FP	14 21 23.0
F	21 27.0
AUG 27	
GCA FP	16 31 29.7
TUC FP	16 31 39.3

Date and Station	Phase (GCT)
	h m s
AUG 27	
H-19 31 56.9	
35.5N 028.7E	
h ABOUT 033KM	
BOZ F(P)	19 45 04.5
AUG 27	
TUC EP	20 35 24.9
EL	35 44.5
AUG 27	
H-21 46 41.7	
01.5N 078.4W	
h ABOUT 141KM	
EUR IP	21 55 32.4
BOZ FP	21 55 44.0
AUG 27	
TUC EP	22 05 59.5
AUG 27	
H-22 41 53.0	
60.9N 152.8W	
h ABOUT 033KM	
COL FP	22 43 03.0
TUC E(P)	22 49 11.5
AUG 27	
H-23 48 26.3	
21.6S 175.3W	
h ABOUT 060KM	
BCN EP	24 00 36.0
TUC EP	24 00 38.5
EUR IP	24 00 43.4
SLC EP	24 01 00.6
ALQ EP	24 01 02.0
BOZ F(P)	24 01 11.0
AUG 28	
TUC FP	01 27 53.5
AUG 28	
ALQ FP	01 38 21.0
AUG 28	
TUC FP	04 34 06.8
AUG 28	
H-04 35 29.3	
19.8S 178.2W	
h ABOUT 580KM	
GUA FP	04 43 27.0
F	44 42.9
BCN FP	04 46 50.0
FpP	48 55.5
EUR IP	04 46 54.5
TUC IP C	04 46 55.0
FpP	49 00.2

Date and Station	Phase (GCT)
	h m s
GCA IP	04 47 03.2
ALQ IP D	04 47 16.0
FpP	49 23.0
COL IP	04 47 16.1
FpP	49 23.0
HHM EP	04 47 22.3
BOZ IP	04 47 23.0
HON F(S)	04 49 02.0
F	52 04.0
AUG 28	
COL EP	04 56 51.0
AUG 28	
H-06 50 46.6	
37.0N 113.1W	
h ABOUT 033KM	
GCA IP	06 51 07.4
FS	51 21.0
BCN EP	06 51 14.5
IL	51 37.0
EUR F(P)	06 51 38.0
TUC E(P)	06 52 06.0
ALQ E(P)	06 52 10.0
AUG 28	
H-08 25 08.9	
18.2S 174.6W	
h ABOUT 070KM	
TUC FP	08 37 07.8
COL EP	08 37 39.0
AUG 28	
H-10 51 27.8	
41.6N 125.9W	
h ABOUT 033KM	
EUR IP	10 53 21.8
BOZ FP	10 54 07.0
AUG 28	
EUR FP	13 13 01.0
AUG 28	
H-13 21 13.5	
07.1N 095.1E	
h ABOUT 033KM	
EUR IP'	13 40 13.1
I	41 06.0
ALQ IP'	13 40 28.0
F	41 22.0
TUC FP'	13 40 29.0
AUG 28	
H-13 22 05.3	
07.6N 095.6E	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL IP	13 35 24.6
AUG 28	
ALQ EP	13 43 37.0
E	43 41.0
TUC E(P)	13 43 37.2
AUG 28	
H-14 42 18.5	
24.4S 179.8E	
h ABOUT 549KM	
TUC EP	14 54 07.9
ALQ EP	14 54 27.0
AUG 28	
H-17 06 00.0	
37.1N 116.0W	
h ABOUT 000KM	
BCN IP C	17 06 27.4
EUR IP	17 06 40.8
GCA EP	17 06 57.2
I	07 59.2
I	07 04.9
SLC EP	17 07 18.5
E	07 34.5
TUC EP	17 07 37.0
E	09 23.8
ALQ EP	17 08 00.0
E	08 30.0
BOZ E(P)	17 08 09.0
E	08 24.0
AUG 28	
BOZ IP	17 53 35.1
IL	53 45.0
HHM E(P)	17 54 21.0
EL	54 33.0
E	55 24.6
AUG 28	
H-18 17 03.2	
23.5N 120.6E	
h ABOUT 010KM	
GUA EP	18 22 30.0
COL EP	18 28 15.0
HHM E(P)	18 30 19.0
AUG 28	
BCN IP	19 34 28.0
IS	34 44.5
AUG 28	
ALQ E(P)	20 24 12.0
AUG 28	
ALQ IP C	21 54 25.0
E	54 50.0

Date and Station	Phase (GCT)
	h m s
AUG 28	
TUC EP	22 02 29.0
EL	02 46.5
AUG 28	
ALQ E(P)	22 22 03.0
GCA EP	22 22 08.2
E(S)	22 38.7
AUG 28	
COL EP	22 43 43.2
AUG 28	
H-22 57 58.2	
51.5N 130.2W	
h ABOUT 033KM	
HHM E(P)	23 00 35.0
BOZ EP	23 01 11.5
EUR IP	23 01 39.9
COL E(P)	23 01 44.5
ALQ E(P)	23 03 09.0
AUG 29	
EUR IP	00 42 28.0
AUG 29	
COL EP	02 01 46.0
AUG 29	
COL FP	02 08 43.0
AUG 29	
H-02 45 28.6	
43.3N 000.1E	
h ABOUT 033KM	
TUC EP	02 57 47.0
AUG 29	
ALQ E(P)	03 15 19.0
AUG 29	
ALQ E(P)	03 51 42.0
AUG 29	
H-04 08 03.2	
57.8N 156.0W	
h ABOUT 078KM	
COL FP	04 10 00.3
SIT EP	04 10 39.5
HHM EP	04 13 34.5
EPP	13 58.7
BOZ E(P)	04 14 00.0
EUR IP	04 14 21.1
ALQ E(P)	04 15 32.0
AUG 29	
SIT E(P)	04 12 33.5
AUG 29	
TUC FP	04 15 53.5

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	04 15 54.0
AUG 29	
COL IP	04 25 00.5
AUG 29	
H-05 20 19.8	
71.6N 003.7W	
h ABOUT 033KM	
COL EP	05 28 08.4
ALQ E(P)	05 30 33.0
AUG 29	
H-06 05 24.2	
19.3S 066.3W	
h ABOUT 232KM	
ALQ IP	06 15 48.0
EPP	16 52.0
TUC IP D	06 15 51.9
E	16 56.0
RCD EP	06 16 22.0
BCN IP	06 16 23.8
EPP	17 26.5
EUR IP	06 16 40.3
BOZ EP	06 16 51.2
BUT EP	06 16 55.7
HHM IP D	06 17 07.8
E	18 03.3
COL E(P)	06 18 47.0
GUA EP'	06 24 47.8
AUG 29	
GUA IP	06 29 03.5
ES	29 21.0
AUG 29	
H-06 55 30.2	
72.3N 002.8W	
h ABOUT 033KM	
EUR E(P)	07 05 41.5
AUG 29	
COL EP	08 54 31.0
AUG 29	
ALQ E(P)	08 55 05.0
AUG 29	
SJP EP	09 53 37.5
EL	54 13.0
AUG 29	
COL IP	10 19 58.8
AUG 29	
ALQ EP	11 04 41.5
AUG 29	
COL EP	12 26 20.0

Date and Station	Phase (GCT)
	h m s
AUG 29	
H-12 49 58.3	
13.3S 172.4E	
h ABOUT 033KM	
COL EP	13 02 24.0
ALQ E(P)	13 02 55.0
AUG 29	
H-13 25 25.9	
13.7S 172.6E	
h ABOUT 033KM	
COL EP	13 37 51.0
BCN EP	13 37 56.0
ALQ E(P)	13 38 26.0
HON E(S)	13 40 38.0
EL	46 00.0
AUG 29	
COL EP	14 24 47.0
AUG 29	
ALQ E(P)	16 22 48.0
AUG 29	
H-17 17 34.2	
03.2S 092.2W	
h ABOUT 033KM	
TUC FP	17 25 02.8
ALQ E(P)	17 25 11.0
AUG 29	
H-17 26 55.5	
20.7S 174.1W	
h ABOUT 033KM	
TUC E(P)	17 39 05.4
ALQ E(P)	17 39 29.0
AUG 29	
H-21 36 50.8	
14.9S 172.8W	
h ABOUT 033KM	
BCN EP	21 48 29.5
EPCP	48 39.4
TUC EP	21 48 35.3
EPCP	48 45.0
COL IP	21 49 08.0
AUG 29	
EUR EP	22 38 11.3
AUG 30	
BZM EP	01 00 04.5
BUT E(P)	01 00 06.0
IL	00 31.0
HHM E(P)	01 00 45.7
AUG 30	
ALQ E(P)	01 18 46.0

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	h m s
AUG 30	
H-02 35 08.1	
27.6N 088.3E	
h ABOUT 021KM	
COL FP	02 47 08.0
ALQ EP'	02 53 50.0
AUG 30	
H-03 19 07.5	
6.6N 082.5W	
h ABOUT 045KM	
SJP FP	03 23 40.8
ALQ IP D	03 26 06.5
F	26 21.0
TUC FP	03 26 13.0
BCN FP	03 26 54.5
FUR EP	03 27 17.7
BOZ IP	03 27 31.2
AUG 30	
BHP IP	03 20 24.0
IS	20 53.0
AUG 30	
COL IP	03 50 33.4
AUG 30	
COL FP	05 19 21.0
AUG 30	
COL FP	05 24 37.0
AUG 30	
COL IP	05 35 26.0
AUG 30	
TUC E(P)	06 37 22.3
AUG 30	
BCN FP	06 41 41.0
IL	42 02.0
AUG 30	
H-07 57 38.0	
18.9S 169.5E	
h ABOUT 210KM	
BCN F(P)	08 10 15.0
TUC FP	08 10 22.2
AUG 30	
H-08 11 42.5	
15.8S 174.0W	
h ABOUT 286KM	
KIP IP	08 18 57.3
BCN IP D	08 23 04.2
FUR IP	08 23 09.7
TUC IP D	08 23 10.4
GCA IP	08 23 19.1
SLC FP	08 23 27.4
ALQ IP D	08 23 33.5
F	23 39.0
COL IP	08 23 36.5
AUG 30	
H-08 47 34.7	
05.0S 144.5E	
h ABOUT 093KM	
GUA FP	08 51 45.5
KIP FP	08 57 49.0
COL EP	09 00 01.0
FUR EP	09 01 13.5
SJP EP'	09 07 09.7
AUG 30	
ALQ E(P)	11 57 56.0
AUG 30	
H-15 20 50.7	
12.6N 088.5W	
h ABOUT 054KM	
ALQ IP	15 26 36.0
EpP	26 48.0
EPCP	29 59.0
EpPCP	30 10.0
TUC E(P)	15 26 41.0
EPCP	29 55.0
EpPCP	30 11.0
EUR IP	15 27 51.0
BOZ IP	15 28 08.5
BUT E(P)	15 28 14.0
COL IP	15 31 31.5
AUG 30	
KIP EP	16 34 43.0
ES	35 22.0
AUG 30	
H-17 55 17.0	
09.8S 159.1E	
h ABOUT 035KM	
COL FP	18 07 45.0
EUR IP	18 08 26.8
AUG 30	
FUR IP	18 45 01.6
AUG 30	
ALQ EP	19 47 19.0
AUG 30	
H-20 37 09.2	
13.6S 172.4E	
h ABOUT 033KM	
GUA E(P)	20 44 20.5
COL IP	20 49 36.5
EUR IP	20 49 45.2
BOZ FP	20 50 06.5
ALQ FP	20 50 10.0
E	50 44.0
HON E(S)	20 52 10.0
EL	57 42.0
AUG 30	
H-21 03 58.4	
29.2N 114.4W	
h ABOUT 033KM	
TUC EP	21 05 05.4
BCN E(P)	21 05 39.0
EL	07 47.0
EUR IP	21 06 28.0
AUG 30	
COL IP	21 09 37.1
E	11 18.0
AUG 30	
H-21 44 56.9	
19.9S 176.0W	
h ABOUT 253KM	
KIP IP	21 52 46.4
GUA IP	21 53 34.2
I	54 29.0
I	58 20.5
BCN IP C	21 56 41.8
F	57 22.0
EpP	57 42.2
FUR IP	21 56 47.3
TUC IP	21 56 47.8
E(pP)	57 46.8
GCA IP	21 56 57.0
SLC IP	21 57 05.0
EpP	58 07.0
ALQ IP C	21 57 09.0
IpP	58 10.0
BUT EP	21 57 15.0
EpP	58 16.0
COL IP	21 57 16.3
BOZ IP	21 57 17.5
IpP	58 19.5
HHM EP	21 57 17.6
E(pP)	58 16.6
AUG 30	
COL EP	22 07 35.0
AUG 30	
H-22 30 24.8	
13.7S 172.5E	
h ABOUT 033KM	
COL FP	22 42 51.0
AUG 30	
H-22 57 35.3	
34.1N 118.4W	
h ABOUT 014KM	
BCN F(P)	22 58 36.5
EUR EP	22 59 03.3
TUC E(P)	22 59 11.0
AUG 30	
TUC F(P)	23 57 40.0
F	57 50.4
F	58 02.0
BCN F(P)	23 58 36.5
I(S)	59 23.5
IL	59 44.5
AUG 31	
COL FP	01 16 18.0
AUG 31	
ALQ FP	01 24 24.0
AUG 31	
COL EP	02 00 01.0
AUG 31	
ALQ F(P)	02 00 35.0
AUG 31	
H-02 14 20.3	
35.2S 106.0W	
h ABOUT 033KM	
TUC EP	02 25 13.8
ALQ EP	02 25 30.0
E	25 38.0
BCN EP	02 25 42.0
F	25 52.0
EUR IP	02 25 59.5
SLC FP	02 26 07.7
BOZ FP	02 26 30.0
BUT EP	02 26 35.2
KIP F(S)	02 36 32.0
F	46 04.0
FL	49 07.0
HON F(S)	02 36 32.0
E	40 25.0
F	43 45.0
FL	48 45.0
AUG 31	
H-02 42 09.7	
55.2N 162.0E	
h ABOUT 033KM	
COL EP	02 47 43.0
BOZ EP	02 51 21.0
EUR IP	02 51 36.7
ALQ FP	02 52 35.0

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	h m s
AUG 31	
ALQ EP	03 02 29.0
TUC EP	03 02 37.9
AUG 31	
TUC E(P)	03 20 05.2
AUG 31	
BOZ E(P)	04 09 44.0
EL	45 38.0
AUG 31	
H-04 22 08.6	
1.4N 066.0E	
h ABOUT 029KM	
ALQ IP'	04 41 39.0
F	41 45.0
TUC EP'	04 41 47.6
AUG 31	
H-05 30 35.1	
25.7N 128.1E	
h ABOUT 091KM	
GUA EP	05 35 00.0
COL EP	05 41 04.0
AUG 31	
BZM EP	06 36 18.0
E(S)	36 27.0
AUG 31	
TUC E(P)	10 59 22.2
AUG 31	
COL EP	11 58 44.0
AUG 31	
TUC E(P)	12 31 39.8
E	32 14.7
BCN E(P)	12 32 52.7
EL	34 03.0
AUG 31	
ALQ E(P)	12 33 26.0
AUG 31	
BCN IP	13 06 34.3
IS	06 36.5
AUG 31	
COL EP	13 08 24.0
AUG 31	
BOZ EP	13 11 36.5
AUG 31	
SIT EP	14 31 58.3
AUG 31	
GUA IP	14 37 18.0
FS	37 30.0
AUG 31	
BCN E(P)	16 17 32.0
EL	18 06.0

Date and Station	Phase (GCT)
	h m s
AUG 31	
H-17 03 36.4	
35.5N 118.4W	
h ABOUT 005KM	
GCA E(P)	17 04 00.4
BCN EP	17 04 24.3
EUR E(P)	17 04 53.6
TUC EP	17 05 21.9
AUG 31	
H-19 36 37.6	
59.5N 145.9W	
h ABOUT 033KM	
COL IP	19 37 59.5
SIT E(P)	19 38 01.0
BOZ EP	19 41 56.0
TUC EP	19 43 36.0
AUG 31	
H-23 20 19.4	
52.4N 170.7W	
h ABOUT 033KM	
COL EP	23 24 18.0
BOZ IP	23 27 38.9
IPP	27 45.0
IPCP	29 52.5
EUR IP	23 27 47.4
TUC IP C	23 28 50.2
ALQ EP	23 28 57.0
F	34 15.0
GUA EP	23 29 28.7
AUG 31	
BOZ EP	23 33 35.0
AUG 31	
H-23 55 22.6	
58.5N 154.8W	
h ABOUT 033KM	
COL IP	23 57 08.3

Date and Station	Phase (GCT)
	h m s

Date and Station	Phase (GCT)
	h m s