SEISMOLOGICAL BULLETIN

September, 1965

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U. S. DEPARTMENT OF COMMERCE

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March 4, 2011

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

Albuquerque, New Mexico (ALQ) WWNSS
**Balboa Heights, C. Z. (BHP) WWNSS
The Panama Canal Co.
Barrow, Alaska (BRW)
*Boulder City, Nev. (BCN)
Bureau of Reclamation
*Bozeman, Mont. (BOZ) WWNSS
*Bozeman, Mont. (BZM)
Montana State College
*Butte, Mont. (BUT)
Montana School of Mines
*Cedar Springs, Calif. (CED)
Calif. Dept. of Water Resources
*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 (SJG) WWNSS
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC) WWNSS
Ukiah, Calif. (UKI)
International Latitude Observatory
Washington, D. C. (WAS)
Washington Science Center, Md. (WSC)

*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, 1969, the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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 address to:

U. S. Department of Commerce
Environmental Science Services Administration
Coast and Geodetic Survey
Seismology Division
Rockville, Maryland 20852

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
1	04 29 20.6	51.3 N	150.7 E	519	5.1	SEA OF OKHOTSK.
1	04 47 35.0	34.5 S	179.7 E	107	5.7	SOUTH OF KERMADEC ISLANDS. MAG. 6.2 (DUN).
1	06 38 36.2	14.5 S	167.4 E	190	5.6	NEW HEBRIDES ISLANDS. MAG. 4.7-5 (BRK). FELT ON ESPIRITU SANTO.
1	07 02 24.9	34.5 N	139.0 E	68	4.8	NEAR S. COAST OF HONSHU, JAPAN.
1	07 29 34*	15.3 N	61.5 W	33		LEEWARD ISLANDS.
1	07 33 28.0	18.8 S	172.5 W	44	5.0	TONGA ISLANDS REGION.
1	09 00 59*	52.6 N	159.8 E	21	4.1	OFF EAST COAST OF KAMCHATKA.
1	11 23 42*	45.1 N	142.2 E	238	4.4	HOKKAIDO, JAPAN REGION.
1	16 31 17.6	17.0 S	177.6 W	424	4.7	FIJI ISLANDS REGION.
1	20 07 26.5	20.3 S	173.6 W	63	5.0	TONGA ISLANDS.
1	20 08 04.0*					37° 01' 22.8" N. 116° 00' 32.3" W. NEVADA TEST SITE. "SCREAMER" SHOT ELEVATION 906.9 METERS (AEC).
1	22 29 14.4	15.8 S	167.2 E	21	4.2	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
1	22 37 59.8	16.3 N	95.2 W	134	4.0	OAXACA, MEXICO.
1	23 52 34.7	18.2 S	177.9 W	609	4.3	FIJI ISLANDS REGION.
2	00 20 32.3	44.4 N	149.3 E	30	4.6	KURILE ISLANDS.
2	02 07 58.8	28.9 N	112.9 W	11	5.2	GULF OF CALIFORNIA.
2	03 01 43.7	16.4 S	167.1 E	13	4.6	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
2	04 26 36.7	52.0 N	175.5 E	24	5.7	RAT ISLANDS, ALEUTIAN ISLANDS. MAG. 4.5-5 (BRK), 5 1/4-5 1/2 (PAL).
2	08 02 41.4	36.8 N	121.3 W	16	4.4	CENTRAL CALIFORNIA.
2	08 16 28.8	37.1 N	121.3 W	16		CENTRAL CALIFORNIA.
2	09 27 36*	10.9 N	61.0 W	129		TRINIDAD.
2	11 37 49.9	48.3 N	128.1 W	33	4.6	VANCOUVER ISLAND REGION.
2	12 15 15*	51.2 N	171.6 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
2	14 02 37*	48.4 N	128.2 W	33	4.3	VANCOUVER ISLAND REGION.
2	15 42 26*	48.3 N	128.4 W	33	4.4	VANCOUVER ISLAND REGION.
2	15 43 40*	48.2 N	128.5 W	33	4.7	VANCOUVER ISLAND REGION.
2	18 01 19.5	48.3 N	128.3 W	33	4.4	VANCOUVER ISLAND REGION.
2	18 03 10.6	35.9 N	140.0 E	88	4.5	NEAR EAST COAST OF HONSHU, JAPAN. FELT IN TOKYO AREA.
2	19 28 32.9	43.9 N	149.4 E	17	4.5	KURILE ISLANDS REGION.
2	19 41 25.6	48.4 N	128.3 W	33	4.9	VANCOUVER ISLAND REGION.
2	20 09 26*	47.1 N	154.1 E	33	4.3	KURILE ISLANDS.
2	21 16 44*	48.4 N	128.2 W	33	4.0	VANCOUVER ISLAND REGION.
2	21 27 17*	48.4 N	128.2 W	26	5.0	VANCOUVER ISLAND REGION.
2	22 36 46.9	16.4 S	167.2 E	18	4.4	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
2	23 09 03.8	16.3 S	167.2 E	19	5.3	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
3	02 23 37.8	23.5 S	179.8 W	532	4.9	SOUTH OF FIJI ISLANDS.
3	04 03 38*	19.6 N	107.6 W	33	3.8	OFF COAST OF JALISCO, MEXICO.
3	04 42 36.1	48.4 N	128.2 W	12	4.8	VANCOUVER ISLAND REGION.
3	05 42 27.0	27.4 S	63.2 W	582	4.6	SANTIAGO DEL ESTERO PROV., ARG.
3	10 36 03.1	12.9 S	166.6 E	185		SANTA CRUZ ISLANDS.
3	10 44 31.0	20.6 S	69.5 W	96	4.5	NORTHERN CHILE.
3	11 59 07.3	6.4 N	125.9 E	87	4.7	MINDANAO, PHILIPPINE ISLANDS.
3	14 27 56.2	28.8 S	67.4 W	124	4.2	LA RIOJA PROVINCE, ARGENTINA.
3	16 18 51.1	52.0 N	176.2 E	30	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
3	20 33 37.1	16.0 S	167.4 E	48	4.5	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
3	21 38 53.8	5.3 S	153.7 E	54	5.9	NEW IRELAND REGION. FELT AT RABAUL.
4	03 25 41.4	18.5 N	145.2 E	221	4.4	MARIANA ISLANDS.
4	07 48 43.9	52.0 N	170.4 W	28	5.3	FOX ISLANDS, ALEUTIAN ISLANDS.
4	09 42 10.9	42.1 N	125.4 W	33	4.1	OFF COAST OF OREGON.
4	10 09 08*	45.3 N	150.3 E	40	4.2	KURILE ISLANDS.
4	10 19 50.5	46.7 N	153.4 E	23	5.5	KURILE ISLANDS.
4	12 33 53.5	46.6 N	153.1 E	33	4.4	KURILE ISLANDS.
4	14 32 46.7	58.2 N	152.7 W	10	6.2	KODIAK ISLAND REGION. MAG. 6 3/4-7 (PAS), 7 (BRK), 6 3/4-7 (PAL). FELT ABOARD USCGSS SURVEYOR AT 58° 57' N. 151° 23' W. AND AT HOMER, KODIAK, AND ANCHORAGE.
4	21 26 42*	16.6 S	172.4 W	19	4.7	SAMOA ISLANDS REGION.
4	21 37 27.5	36.0 S	98.7 W	35	5.2	SOUTHERN PACIFIC OCEAN. MAG. 5.25 (BRK).
4	21 41 17.9	23.3 S	68.1 W	248	4.2	NORTHERN CHILE.
4	22 40 33.2	21.5 S	66.8 W	241	4.4	SOUTHERN BOLIVIA.
5	07 26 19.8	38.8 N	144.4 E	63	4.3	OFF EAST COAST OF HONSHU, JAPAN.
5	10 50 52.2	28.3 S	70.6 W	45	4.2	CENTRAL CHILE.
5	11 31 16.9	17.7 S	178.6 W	573	5.0	FIJI ISLANDS REGION.
5	12 11 02*	51.8 N	176.3 W	44	4.2	ANDREANOF ISLANDS, ALEUTIAN IS. FELT ON ADAK.
5	12 15 20*	24.1 S	179.9 E	570	3.9	SOUTH OF FIJI ISLANDS.
5	20 04 11.5	6.3 S	151.9 E	37	4.7	NEW BRITAIN REGION.
5	21 22 36.5	20.4 S	178.3 W	558	4.9	FIJI ISLANDS REGION.
5	22 07 00*	34.4 N	8.3 E	33	4.4	TUNISIA.
5	22 17 41*	5.2 S	127.4 E	319		BANDA SEA.
5	23 01 54.2	21.7 N	120.9 E	14	4.9	TAIWAN REGION.
5	23 20 41.1	16.9 S	172.2 W	33	4.6	SAMOA ISLANDS REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
5	23 47 36.4	1.4 N	123.1 E	50	4.7	NORTHERN CELEBES.
6	02 56 16.7	21.1 N	121.1 E	46	4.7	TAIWAN REGION.
6	03 18 40.0	21.3 N	121.4 E	46	5.1	TAIWAN REGION.
6	04 59 41.5	18.6 N	67.6 W	33	5.7	MONA PASSAGE.
6	08 35 05*	13.5 N	91.1 W	88	4.0	NEAR COAST OF GUATEMALA.
6	11 42 41.5	46.7 N	152.7 E	70	5.3	KURILE ISLANDS.
6	13 16 01.7	6.1 S	151.1 E	43	4.7	NEW BRITAIN REGION.
6	16 05 36*	15.9 N	95.0 W	68	3.7	NEAR COAST OF OAXACA, MEXICO.
6	16 25 53.5	9.3 S	75.9 W	31	4.4	PERU.
6	19 16 31.9	1.8 S	138.9 E	65		NEAR N. COAST OF WEST NEW GUINEA.
6	21 13 32.8	6.6 N	84.3 W	40	5.1	OFF COAST OF CENTRAL AMERICA. MAG. 5.25 (BRK), 5 1/4-5 1/2 (PAL).
6	22 52 42*	6.7 N	84.3 W	27	4.2	OFF COAST OF CENTRAL AMERICA.
6	23 20 39*	6.9 N	84.4 W	33	4.1	OFF COAST OF CENTRAL AMERICA.
7	06 16 45.7	35.1 N	4.4 E	17	4.5	ALGERIA. FELT AT SAADA, BARIKA, AND M'-SILA.
7	06 57 25.8	24.3 N	142.6 E	23	5.2	VOLCANO ISLANDS REGION.
7	08 28 51.3	15.6 S	167.1 E	29	4.7	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
7	10 16 57*	24.1 S	179.9 E	483	3.9	SOUTH OF FIJI ISLANDS.
7	11 14 06.5	18.5 S	177.3 W	391	5.3	FIJI ISLANDS REGION.
7	12 57 55*	61.7 N	147.5 W	33	3.7	SOUTHERN ALASKA.
7	15 29 54.3	4.9 N	127.5 E	95		TALAUD ISLANDS.
7	15 39 55.7	17.9 N	144.6 E	208	4.2	MARIANA ISLANDS REGION.
7	16 30 27*	4.4 S	80.5 W	227	4.2	PERU-ECUADOR BORDER REGION.
7	22 45 28.0	32.7 N	142.6 E	40	4.1	SOUTH OF HONSHU, JAPAN.
8	00 26 36.6	20.2 S	69.4 W	108	4.3	NORTHERN CHILE.
8	00 37 08*	19.1 N	107.8 W	33	4.1	OFF COAST OF JALISCO, MEXICO.
8	01 16 22*	18.8 N	108.1 W	30	4.1	REVILLA GIGEDO ISLANDS REGION.
8	02 26 22*	18.8 N	108.1 W	33	3.7	REVILLA GIGEDO ISLANDS REGION.
8	03 26 20.8	57.5 N	152.2 W	25	5.6	KODIAK ISLAND REGION. MAG. 5.0 (BRK), 5 1/4-5 1/2 (PAL). FELT AT KODIAK.
8	04 10 34.8	11.1 S	73.8 W	99	4.3	PERU.
8	04 39 13.7	19.2 N	108.2 W	33	4.2	REVILLA GIGEDO ISLANDS REGION.
8	05 24 14.6	19.3 N	108.1 W	33	4.1	REVILLA GIGEDO ISLANDS REGION.
8	05 35 44.6	32.9 N	48.4 E	50	4.7	WESTERN IRAN.
8	06 44 04*	22.7 N	108.9 W	33	3.7	OFF COAST OF CENTRAL MEXICO.
8	07 01 33.3	19.2 N	145.3 E	152	5.4	MARIANA ISLANDS.
8	09 57 07.8	52.5 N	173.6 E	30	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
8	11 16 32.0	55.8 N	155.3 W	14	5.5	SOUTH OF ALASKA. MAG. 4.75 (BRK), 5 1/2 (PAL).

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
8	11 45 42.1	27.2 S	176.7 W	70	5.2	KERMADEC ISLANDS.
8	13 27 31*	5.6 S	104.4 W	33	4.4	NORTHERN EASTER I. CORDILLERA.
8	14 13 11.8	15.4 S	166.6 E	6	5.1	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
8	14 29 25*	28.8 S	179.1 W	137	4.3	KERMADEC ISLANDS.
8	18 34 49.7	19.2 N	108.3 W	33	4.1	REVILLA GIGEDO ISLANDS REGION.
9	02 16 19.3	64.2 N	146.7 W	24	4.0	CENTRAL ALASKA.
9	04 39 45.0	43.5 N	144.2 E	42	5.0	HOKKAIDO, JAPAN REGION.
9	07 38 26*	60.1 N	153.2 W	104	3.9	SOUTHERN ALASKA. FELT AT HOMER.
9	10 02 25.1	6.5 N	84.4 W	22	5.6	OFF COAST OF CENTRAL AMERICA. MAG. 6 3/4 (PAS), 6.75-7 (BRK).
9	12 10 34*	37.4 N	72.0 E	222		TADZHIK SSR.
9	12 43 38*	9.6 N	85.3 W	33	4.5	OFF COAST OF COSTA RICA.
9	15 26 50*	5.8 N	84.3 W	33		OFF COAST OF CENTRAL AMERICA.
9	17 40 53.5	47.0 N	146.1 E	600	4.6	NORTHWEST OF KURILE ISLANDS.
9	23 31 21.6	36.4 N	70.7 E	212	4.6	HINDU KUSH REGION.
10	01 24 18.7	21.1 S	178.7 W	559	4.6	FIJI ISLANDS REGION.
10	02 53 26.1	14.0 N	120.9 E	149		LUZON, PHILIPPINE ISLANDS.
10	05 07 22*	15.4 S	172.6 W	38	4.2	SAMOA ISLANDS REGION.
10	07 19 28.4	15.9 S	167.2 E	38	5.1	NEW HEBRIDES ISLANDS. FELT AT NORSUP AND ON ESPIRITU SANTO.
10	07 25 23*	20.8 S	178.7 W	608	4.0	FIJI ISLANDS REGION.
10	08 44 10.1	18.9 S	169.4 E	233	4.3	NEW HEBRIDES ISLANDS.
10	09 31 08.6	15.7 S	166.3 E	15	4.4	NEW HEBRIDES ISLANDS.
10	10 24 19*	14.4 S	72.4 W	94	3.9	PERU.
10	12 29 53.0	10.0 N	70.8 W	44	4.9	VENEZUELA. FELT AT CARACAS.
10	14 55 14.9	34.4 N	117.6 W	8	3.9	SOUTHERN CALIFORNIA. MAG. 3 1/4-3 1/2 (PAS). FELT AT PINON HILLS.
10	15 01 55.6	42.9 N	143.4 E	114	5.2	HOKKAIDO, JAPAN REGION.
10	15 39 29.9	20.6 S	178.7 W	605	4.5	FIJI ISLANDS REGION.
10	17 12 00.025					37° 04' 40.7"N. 116° 01' 00.2"W. NEVADA TEST SITE. "CHARCOAL". SHOT ELEVATION 813.7 METERS (AEC).
10	17 57 14*	43.9 N	127.8 W	19	4.9	OFF COAST OF OREGON.
10	17 57 17*	63.3 N	154.4 W	33	4.3	CENTRAL ALASKA.
10	19 25 52.0	37.4 N	141.1 E	68	5.3	NEAR EAST COAST OF HONSHU, JAPAN. FELT IN TOKYO AREA.
10	21 28 34.9	37.8 N	122.0 W	24	4.9	CENTRAL CALIFORNIA. MAG. 4 3/4 (PAS), 4.8 (BRK). SLIGHT DAMAGE IN CONTRA COSTA COUNTY. FELT IN SAN FRANCISCO BAY AREA.
10	22 57 43.8	18.5 N	100.6 W	94	4.2	GUERRERO, MEXICO.
11	01 53 21*	12.7 N	50.4 E	33		EASTERN GULF OF ADEN.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
11	04 37 00*	64.7 N	133.9 W	33	4.1	SOUTHERN YUKON TERRITORY, CANADA.
11	04 49 13.5	39.2 N	22.3 E	42	4.1	GREECE. FELT IN PHTHIOTIS AND EVRYTANIA.
11	05 21 26*	33.9 N	139.2 E	33	4.4	SOUTH OF HONSHU, JAPAN.
11	06 16 27*	36.6 N	70.6 E	234		HINDU KUSH REGION.
11	06 52 59.5	5.4 S	153.0 E	50	6.5	NEW IRELAND REGION. MAG. 6 1/4 (PAS), 5.7 (BRK), 6 1/2-6 3/4 (PAL). FELT AT RABAUL.
11	07 13 19.8	50.0 N	129.5 W	8	4.9	VANCOUVER ISLAND REGION.
11	07 30 27*	50.2 N	178.2 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
11	11 12 58.6	37.4 N	72.0 E	173	4.6	TADZHIK SSR.
11	12 58 14.9	4.9 S	153.5 E	71	4.4	NEW IRELAND REGION.
11	16 49 35.7	57.0 N	34.2 W	33	4.6	NORTH ATLANTIC OCEAN.
11	17 22 43.6	23.4 N	123.8 E	33	4.2	SOUTHWESTERN RYUKYU ISLANDS.
11	18 17 55*	11.4 S	75.3 W	33	4.1	PERU.
11	22 15 16.2	7.0 N	71.8 W	27	4.4	VENEZUELA.
12	01 30 00.6	15.6 S	167.1 E	22		NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
12	03 11 24.0	21.6 N	145.7 E	68	4.8	MARIANA ISLANDS REGION.
12	06 00 53.9	4.9 S	152.3 E	55	4.7	NEW BRITAIN REGION. FELT AT RABAUL.
12	06 03 30.0	60.7 N	147.7 W	33	4.3	SOUTHERN ALASKA.
12	06 04 31.5	18.2 S	169.2 E	313	4.2	NEW HEBRIDES ISLANDS.
12	06 58 33.4	11.2 S	166.4 E	118	5.4	SANTA CRUZ ISLANDS.
12	08 40 10.6	6.4 S	151.6 E	29	6.3	NEW BRITAIN REGION. MAG. 6 1/2-6 3/4 (PAS), 6.1 (BRK), 6 1/2-6 3/4 (PAL). FELT AT RABAUL.
12	08 45 45.1	6.3 S	151.6 E	33	4.9	NEW BRITAIN REGION.
12	09 02 00.7	6.3 S	151.7 E	45	5.0	NEW BRITAIN REGION.
12	09 15 38*	55.4 N	150.9 W	33	4.0	GULF OF ALASKA.
12	13 43 50*	18.8 N	109.1 W	33	3.9	REVILLA GIGEDO ISLANDS REGION.
12	17 01 52.3	3.2 N	126.4 E	63	5.4	TALAUD ISLANDS.
12	19 11 34.3	14.0 S	172.8 E	593	3.9	NEW HEBRIDES ISLANDS REGION.
12	20 21 19.6	36.4 S	97.8 W	33	5.4	WEST CHILE RISE.
12	21 25 12.2	53.1 N	158.8 E	73	4.5	NEAR EAST COAST OF KAMCHATKA.
12	21 54 42.0	21.5 N	143.2 E	326	5.0	MARIANA ISLANDS REGION.
12	22 02 34.3	6.5 S	70.8 E	34	6.2	CHAGOS ARCHIPELAGO REGION. MAG. 7.0 (BRK), 6 (PAL).
13	00 45 54.4	52.1 N	171.7 W	48	4.6	FOX ISLANDS, ALEUTIAN ISLANDS.
13	04 34 37*	65.3 N	163.6 W	33	4.1	ALASKA.
13	04 53 58.0	20.0 S	178.2 W	582	5.2	FIJI ISLANDS REGION.
13	07 14 28.0	36.4 N	71.1 E	116	4.2	AFGHANISTAN-USSR BORDER REGION.
13	08 47 07*	31.0 N	114.4 W	33	4.3	GULF OF CALIFORNIA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
13	09 58 17.9	39.8 N	104.8 W	5	4.5	COLORADO. FELT IN DENVER AREA.
13	13 07 48.1	55.3 N	165.7 E	23	5.5	KOMANDORSKY ISLANDS REGION. MAG. 5.25 (BRK).
13	15 25 58.4	26.7 S	177.6 W	190		SOUTH OF FIJI ISLANDS.
13	15 44 59.0	55.5 N	165.7 E	33	4.4	KOMANDORSKY ISLANDS REGION.
13	15 58 54*	45.2 N	114.8 W	33	3.6	WESTERN IDAHO.
13	16 02 41*	4.6 N	96.0 E	33	4.7	NORTHERN SUMATRA.
13	16 04 36.6	19.1 S	177.7 W	596	3.7	FIJI ISLANDS REGION.
13	16 15 44.1	36.6 S	97.5 W	32	5.4	WEST CHILE RISE. MAG. 5.75-6 (BRK), 5 3/4-6 (PAL).
13	19 25 30.8	20.9 S	178.8 W	597	5.0	FIJI ISLANDS REGION.
13	20 06 37.9	52.6 N	174.0 E	31	4.2	NEAR ISLANDS, ALEUTIAN ISLANDS.
13	21 18 34.4	45.4 N	111.8 W	25	3.6	MONTANA.
13	21 31 45.5	49.0 N	155.9 E	78	5.2	KURILE ISLANDS.
14	01 43 36.6	5.3 S	152.9 E	52	4.8	NEW BRITAIN REGION.
14	04 50 22.7	12.0 S	72.4 W	60	4.3	PERU.
14	07 18 00.5	10.4 S	76.2 W	189	4.8	PERU.
14	07 20 14.3	25.8 S	176.9 W	92	4.0	SOUTH OF FIJI ISLANDS.
14	07 27 15.7	16.5 S	173.4 W	90	4.9	TONGA ISLANDS.
14	08 15 05*	37.3 N	20.5 E	39	4.2	IONIAN SEA. FELT ON ZANTE ISLAND AND IN ELIS REGION.
14	08 27 18.3	8.4 N	127.0 E	56	5.8	PHILIPPINE ISLANDS REGION. MAG. 5 1/4 (PAL).
14	09 00 47.8	35.4 N	140.8 E	62	4.6	NEAR EAST COAST OF HONSHU, JAPAN.
14	09 09 23.7	36.6 N	121.4 W	25	4.3	CENTRAL CALIFORNIA. MAG. 4 (BRK). FELT IN HOLLISTER AREA.
14	12 34 33.1	38.7 S	144.2 E	3		NEAR S.E. COAST OF AUSTRALIA. FELT AT BALLARAT, GEELONG, AND MELBOURNE.
14	12 53 12.1	38.7 S	144.2 E	33	5.0	NEAR S.E. COAST OF AUSTRALIA. FELT AT BALLARAT, GEELONG, AND MELBOURNE.
14	14 08 49.5	55.1 S	159.1 E	7		MACQUARIE ISLAND REGION.
14	14 18 13.5	51.9 N	175.4 E	56	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
14	14 27 17*	22.7 S	66.7 W	283	4.5	JUJUY PROVINCE, ARGENTINA.
14	16 36 47*	39.8 N	104.8 W	5	4.7	COLORADO. FELT IN DENVER AREA.
14	18 57 27.8	36.5 N	70.1 E	233	4.8	HINDU KUSH REGION.
14	21 02 21.8	22.3 N	120.9 E	40	4.5	TAIWAN.
14	21 54 16.8	8.5 N	126.9 E	66	5.2	MINDANAO, PHILIPPINE ISLANDS.
14	22 46 24*	39.9 N	104.6 W	5	4.7	COLORADO. SLIGHT DAMAGE IN DENVER AREA.
14	22 48 20.3	25.5 N	124.8 E	128	5.1	NORTHEAST OF TAIWAN.
14	23 16 10*	39.5 N	104.9 W	5	4.8	COLORADO.
14	23 34 38.1	20.1 S	168.9 E	24	4.3	LOYALTY ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
15	01 49 29.1	27.8 S	69.8 W	83	4.9	NORTHERN CHILE. FELT AT COPIAPO.
15	06 46 47*	79.3 N	3.1 W	33	4.1	GREENLAND SEA.
15	08 16 54.6	5.1 S	153.6 E	33	4.1	NEW IRELAND REGION.
15	08 39 33.1	6.8 N	73.0 W	164	4.4	NORTHERN COLOMBIA.
15	10 07 22.4	6.4 S	154.0 E	72	4.6	SOLOMON ISLANDS.
15	12 19 52*	40.6 N	125.3 W	33	4.3	OFF COAST OF NORTHERN CALIFORNIA.
15	13 21 57.0	52.1 N	170.6 W	42	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
15	15 31 56.9	4.6 S	153.7 E	60	4.6	NEW IRELAND REGION.
15	17 42 51.1	39.5 N	30.0 E	33	4.1	TURKEY.
15	21 23 23.3	51.7 N	177.1 E	40	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
15	22 17 56.3	25.0 S	179.9 E	476	4.8	SOUTH OF FIJI ISLANDS.
16	00 40 12*	46.1 N	27.1 E	45	4.2	RUMANIA.
16	00 42 05.3	5.5 S	154.3 E	115	5.3	SOLOMON ISLANDS. FELT AT RABAUL.
16	04 10 22.8	40.4 N	125.7 W	33	5.6	OFF COAST OF NORTHERN CALIFORNIA. MAG. 5 (BRK), 4 3/4-5 (PAL). FELT AT EUREKA.
16	06 29 23*	45.0 N	149.2 E	33	4.6	KURILE ISLANDS.
16	08 57 24*	17.2 S	70.7 W	141	4.3	NEAR COAST OF PERU.
16	12 50 03.5	20.8 S	69.3 W	118	4.2	NORTHERN CHILE.
16	13 25 59.8	50.4 N	150.6 E	439	4.9	NORTHWEST OF KURILE ISLANDS.
16	13 50 12.4	7.1 N	126.6 E	183	6.0	MINDANAO, PHILIPPINE ISLANDS.
16	15 03 18.3	57.6 N	152.0 W	33	4.5	KODIAK ISLAND REGION.
16	16 20 22.8	20.9 S	178.7 W	560	5.0	FIJI ISLANDS REGION.
16	19 51 09.7	37.3 N	74.4 W	0	5.1	OFF EAST COAST OF UNITED STATES. PLANNED DETONATION OF 300 TONS OF TNT EQUIVALENT U.S. NAVY EXPLOSIVES ABOARD SS SANTIAGO IGLESIA.
16	21 02 40.8	15.3 S	168.4 E	25	4.9	NEW HEBRIDES ISLANDS.
16	23 51 41.6	2.5 N	126.1 E	215	4.8	MOLUCCA PASSAGE.
16	23 57 54.9	36.1 N	70.2 E	118	4.4	HINDU KUSH REGION.
17	01 13 46.0	54.3 N	162.7 W	55	4.6	ALASKA PENINSULA.
17	03 59 57.4	49.8 N	78.1 E	0	5.6	EASTERN KAZAKH SSR.
17	08 11 17.2	6.3 S	151.9 E	23	4.8	NEW BRITAIN REGION.
17	08 19 54.8	23.3 S	179.2 E	561	5.2	SOUTH OF FIJI ISLANDS.
17	08 44 47.6	21.0 S	178.9 W	610	4.3	FIJI ISLANDS REGION.
17	11 13 56.4	1.5 S	77.7 W	191	6.2	ECUADOR. MAG. 6 1/2 (PAS), 5.5-6 (BRK). FELT AT GUAYAQUIL AND QUITO.
17	11 52 13*	53.1 N	173.9 W	170	4.7	ANDREANOF ISLANDS, ALEUTIAN IS.
17	12 07 45.6	36.1 N	141.6 E	30	4.2	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	12 47 24.5	6.9 S	154.6 E	158	4.6	SOLOMON ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
17	12 59 18.1	36.4 N	141.3 E	59	5.2	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	13 20 56.7	36.3 N	141.4 E	35	5.4	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	13 27 14.4	21.4 S	178.1 W	411	4.9	FIJI ISLANDS REGION.
17	14 15 32*	24.3 N	108.7 W	33	4.5	GULF OF CALIFORNIA.
17	14 22 37.7	36.3 N	141.4 E	36	5.6	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	14 57 31*	36.8 N	141.0 E	72	4.3	NEAR EAST COAST OF HONSHU, JAPAN.
17	15 08 23.101					37° 06' 39.7"N. 116° 02' 04.6"W. NEVADA TEST SITE. "ELKHART". SHOT ELEVATION 1074.4 METERS (AEC).
17	15 18 35.2	36.4 N	141.4 E	32	5.5	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	15 48 55.1	13.7 S	167.2 E	209	4.8	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
17	16 21 19.3	36.3 N	141.3 E	40	6.2	NEAR EAST COAST OF HONSHU, JAPAN. MAG. 6 3/4 (PAS), 6.5 (RKK), 6 3/4-7 (PAL). FELT IN CENTRAL HONSHU.
17	16 59 20.5	36.3 N	141.2 E	63	5.0	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	18 54 26.5	51.1 N	178.6 W	40	4.7	ANDREANOF ISLANDS, ALEUTIAN IS.
17	20 42 37.7	36.4 N	141.3 E	41	4.9	NEAR EAST COAST OF HONSHU, JAPAN. FELT.
17	21 11 21.7	6.1 S	130.4 E	129	4.9	BANDA SEA.
17	22 54 29.3	12.6 S	166.3 E	60	5.1	SANTA CRUZ ISLANDS.
18	04 13 02.4	6.9 S	147.4 E	111	4.7	EAST NEW GUINEA REGION.
18	04 20 04*	19.9 S	67.5 W	245	4.0	SOUTHERN BOLIVIA.
18	06 41 52*	42.7 S	75.5 W	33	4.5	OFF COAST OF SOUTHERN CHILE.
18	08 30 00.8	10.3 N	62.3 W	41	4.2	NEAR COAST OF VENEZUELA.
18	11 45 11*	50.6 N	157.4 E	55	4.4	KURILE ISLANDS.
18	17 24 16.4	43.4 S	82.3 W	33		WEST CHILE RISE.
18	19 16 27.2	52.3 N	174.3 E	40	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
18	20 46 36.5	59.4 N	145.2 W	5	5.3	GULF OF ALASKA. MAG. 6 (PAL).
18	22 03 15.4	8.3 N	126.9 E	56	5.8	MINDANAO, PHILIPPINE ISLANDS.
18	22 38 17.3	8.2 N	126.8 E	101	4.7	MINDANAO, PHILIPPINE ISLANDS.
18	23 17 00.0	1.9 N	126.6 E	48	5.1	MOLUCCA PASSAGE.
18	23 33 18*	59.6 N	144.6 W	33	4.3	GULF OF ALASKA.
19	00 21 56.1	0.1 S	124.3 E	86	4.9	MOLUCCA SEA.
19	01 08 26.4	15.0 S	173.5 W	33	4.7	TONGA ISLANDS.
19	01 16 50*	20.8 S	175.5 W	74	4.3	TONGA ISLANDS.
19	01 26 50.1	22.3 S	174.8 W	13	5.5	TONGA ISLANDS REGION.
19	01 45 01.7	1.7 S	77.5 W	213	4.6	ECUADOR.
19	03 52 43.2	52.9 N	35.1 W	33	4.7	NORTH ATLANTIC OCEAN.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
19	08 10 42.4	47.9 N	8.3 E	30	4.0	SWITZERLAND. FELT IN SWITZERLAND, EASTERN FRANCE, AND SOUTHERN GERMANY.
19	08 47 42.8	0.8 S	99.8 E	35	5.5	SOUTHERN SUMATRA.
19	09 44 46.5	20.6 S	169.8 E	126	5.0	NEW HEBRIDES ISLANDS.
19	13 16 23.0	12.6 N	125.5 E	69		SAMAR, PHILIPPINE ISLANDS.
19	13 55 40.2	54.5 S	135.6 W	33	4.8	SOUTH PACIFIC CORDILLERA.
19	14 03 34.9	38.9 N	27.9 E	33	4.5	TURKEY. SOME DAMAGE AT AKHISAR.
19	14 16 50.1	5.6 S	154.3 E	116	5.0	SOLOMON ISLANDS.
19	14 17 54.5	15.6 S	74.4 W	69	4.8	NEAR COAST OF PERU.
19	15 42 09.7	35.9 N	120.1 W	22	4.9	CENTRAL CALIFORNIA. MAG. 4 1/2-4 3/4 (PAS), 4.6 (BRK). FELT AT COALINGA.
19	16 03 10.6	6.3 S	151.7 E	22	5.3	NEW BRITAIN REGION.
19	18 00 36.8	36.0 N	71.2 E	103	4.3	AFGHANISTAN-USSR BORDER REGION.
19	18 40 03.8	41.9 N	72.0 E	47		KIRGIZ SSR.
19	23 24 19.9	9.8 N	70.4 W	33	5.0	VENEZUELA.
20	01 15 46.0	37.9 N	122.3 W	17	3.8	CENTRAL CALIFORNIA. MAG. 3.5-3.8 (BRK). FELT IN SAN FRANCISCO BAY AREA.
20	02 44 53*	53.7 N	170.0 W	162	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.
20	02 45 29.7	34.9 N	26.3 E	36		CRETE. FELT.
20	03 43 35.8	22.7 S	175.1 W	31	5.1	TONGA ISLANDS REGION.
20	04 42 05.1	15.8 S	167.4 E	19		NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
20	06 37 42.6	17.3 S	70.5 W	127	4.4	NEAR COAST OF PERU.
20	08 54 09*	47.3 N	157.3 E	33	4.8	KURILE ISLANDS REGION.
20	09 57 36.0	8.3 N	126.9 E	90	4.8	MINDANAO, PHILIPPINE ISLANDS.
20	10 12 59.8	44.5 N	142.4 E	191	4.3	HOKKAIDO, JAPAN REGION.
20	11 01 53.0	12.3 N	125.3 E	70	4.7	SAMAR, PHILIPPINE ISLANDS.
20	11 31 44.1	15.5 N	94.5 W	58	4.3	NEAR COAST OF OAXACA, MEXICO.
20	15 49 49*	45.0 S	81.0 W	33	4.7	OFF COAST OF SOUTHERN CHILE.
20	17 03 21.4	36.1 N	141.8 E	54	4.5	NEAR EAST COAST OF HONSHU, JAPAN.
20	17 11 47.7	12.5 N	125.5 E	56	4.7	SAMAR, PHILIPPINE ISLANDS.
20	18 10 40.3	6.3 S	75.0 W	139	5.1	NORTHERN PERU.
20	20 58 03.6	16.1 S	172.6 W	35	4.8	SAMOA ISLANDS REGION.
20	23 23 22.7	30.5 N	50.1 E	47	4.6	IRAN.
21	00 26 23.8	22.5 S	170.4 E	26	4.7	LOYALTY ISLANDS REGION.
21	01 38 30.5	29.0 N	128.1 E	199	6.1	EAST CHINA SEA. MAG. 6 3/4 (PAS), 6-6.25 (BRK).
21	03 26 37.0	40.6 N	49.9 W	23	5.4	NORTH ATLANTIC OCEAN. MAG. 5 (PAL).
21	05 04 27*	22.3 S	170.4 E	33	4.5	LOYALTY ISLANDS REGION.
21	05 34 45*	1.7 S	77.5 W	245	3.8	ECUADOR.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
21	06 26 04*	32.8 N	21.4 E	24	4.2	NEAR COAST OF LIBYA.
21	11 24 18.0	34.8 N	118.0 W	17		SOUTHERN CALIFORNIA. MAG. 2 3/4 (PAS).
21	15 46 00.4	27.4 N	55.3 E	19	4.5	SOUTHERN IRAN.
21	17 02 30.1	22.4 S	174.6 W	33	4.8	TONGA ISLANDS REGION.
21	23 52 36.9	45.9 N	150.3 E	104	5.0	KURILE ISLANDS.
22	04 00 14.0	6.3 S	151.9 E	33	4.7	NEW BRITAIN REGION.
22	04 24 43.2	20.7 N	99.3 E	11	5.5	BURMA.
22	06 57 52.8	52.0 N	175.0 E	25	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
22	07 27 33.8	50.6 N	172.8 W	36	4.6	ANDREANOF ISLANDS, ALEUTIAN IS.
22	07 55 21*	48.7 N	155.1 E	33	4.5	KURILE ISLANDS.
22	09 35 27.9	1.3 S	134.0 E	31	5.6	WEST NEW GUINEA REGION.
22	12 39 05*	30.9 S	177.0 W	33	4.7	KERMADEC ISLANDS REGION.
22	12 49 45.0	32.0 N	131.6 E	33	5.1	KYUSHU, JAPAN.
22	12 49 54.7	31.8 N	131.5 E	33	5.5	KYUSHU, JAPAN.
22	14 36 10.3	18.8 N	107.2 W	33	4.8	OFF COAST OF JALISCO, MEXICO.
22	17 09 54.2	9.9 S	160.1 E	26	5.0	SOLOMON ISLANDS. FELT AT HONIARA.
22	17 12 18.1	11.2 S	162.1 E	33	5.2	SOLOMON ISLANDS.
22	17 30 11*	18.8 N	107.1 W	33	3.9	OFF COAST OF JALISCO, MEXICO.
22	20 01 49.5	5.3 S	151.4 E	58	6.0	NEW BRITAIN REGION. MAG. 5-5.5 (BRK). FELT AT RABAUL.
22	20 35 29*	7.1 N	73.0 W	129	3.8	NORTHERN COLOMBIA.
22	21 47 06.0	16.1 S	167.6 E	53	4.7	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
22	21 49 25.9	37.4 N	118.6 W	16		CALIFORNIA-NEVADA BORDER REGION. MAG. 4 3/4-5 (PAS), 4.3 (BRK).
22	22 08 01.0	36.4 N	141.3 E	43	5.7	NEAR EAST COAST OF HONSHU, JAPAN. MAG. 6 3/4 (PAS), 6.2 (BRK). FELT AT TOKYO.
22	23 38 01.6	12.6 S	166.6 E	113	5.3	SANTA CRUZ ISLANDS.
23	02 24 58*	55.0 N	164.0 E	33	4.6	KOMANDORSKY ISLANDS REGION.
23	03 59 22.8	52.7 N	159.5 E	33	5.4	OFF EAST COAST OF KAMCHATKA.
23	05 10 34.5	10.2 S	123.9 E	115	5.1	TIMOR.
23	07 17 18*	59.8 N	152.3 W	57	3.9	SOUTHERN ALASKA. FELT AT HOMER.
23	09 18 13*	41.0 S	42.9 E	33	4.3	PRINCE EDWARD ISLANDS REGION.
23	10 35 59*	30.4 N	113.7 W	33	4.4	GULF OF CALIFORNIA.
23	12 58 29.5	17.1 S	177.2 W	418	4.1	FIJI ISLANDS REGION.
23	15 16 59*	36.8 S	91.7 W	33	4.2	WEST CHILE RISE.
23	15 50 34.2	16.9 S	177.1 W	33	4.7	FIJI ISLANDS REGION.
23	19 04 10.9	7.7 S	130.7 E	48	4.8	TANIMBAR ISLANDS REGION.
23	23 21 46.0	55.8 N	35.8 W	33	4.5	NORTH ATLANTIC OCEAN.
24	00 48 35.2	10.9 S	161.8 E	81	4.5	SOLOMON ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
24	03 05 08.4	24.7 S	175.9 W	15	4.7	SOUTH OF TONGA ISLANDS.
24	03 09 28*	14.2 N	106.3 W	33	3.8	OFF COAST OF MEXICO.
24	03 18 55*	24.5 S	176.0 W	33	4.3	SOUTH OF FIJI ISLANDS.
24	03 33 46*	15.6 N	105.5 W	33	4.7	OFF COAST OF MICHOACAN, MEXICO.
24	03 57 20*	14.4 N	105.3 W	33	4.0	OFF COAST OF MEXICO.
24	06 59 33.2	21.3 S	68.8 W	125	4.5	CHILE-BOLIVIA BORDER REGION.
24	09 40 40.1	9.3 S	78.9 W	49	4.8	NEAR COAST OF NORTHERN PERU.
24	17 13 52.0	20.2 N	105.7 W	33	4.7	NEAR COAST OF JALISCO, MEXICO.
24	20 38 07.1	5.2 N	96.2 E	33	5.3	NORTHERN SUMATRA.
24	22 59 53.3	20.1 S	168.0 E	33		LOYALTY ISLANDS.
24	23 53 42.7	13.1 N	145.2 E	57	5.5	MARIANA ISLANDS.
25	00 10 59.0	13.3 N	145.3 E	57	5.0	MARIANA ISLANDS.
25	00 42 38.7	24.6 S	175.0 W	33	4.3	SOUTH OF TONGA ISLANDS.
25	01 03 33*	13.7 N	145.6 E	33	4.2	MARIANA ISLANDS.
25	01 27 36.6	31.1 S	177.6 W	33	4.3	KERMADEC ISLANDS.
25	02 01 17.8	24.5 S	175.9 W	25	5.2	SOUTH OF TONGA ISLANDS. MAG. 6.5 (BRK).
25	02 55 40.1	36.1 S	103.3 W	33	4.6	SOUTHERN PACIFIC OCEAN.
25	03 36 31.8	18.3 S	175.6 W	279	4.3	TONGA ISLANDS.
25	05 13 49*	13.9 N	145.2 E	47	4.4	MARIANA ISLANDS.
25	10 11 29*	53.9 N	35.5 W	33	4.3	NORTH ATLANTIC OCEAN.
25	10 29 59.0	28.0 S	178.0 W	33	4.4	KERMADEC ISLANDS.
25	10 56 00.4	0.9 S	21.9 W	33	5.0	CENTRAL MID-ATLANTIC RIDGE.
25	12 00 05*	54.2 N	36.1 W	33	4.3	NORTH ATLANTIC OCEAN.
25	12 29 08.6	23.9 S	177.6 W	241	4.8	SOUTH OF FIJI ISLANDS.
25	13 21 13.7	25.0 S	175.0 W	33	4.6	SOUTH OF TONGA ISLANDS.
25	14 37 13.1	39.7 N	143.3 E	21	5.5	OFF EAST COAST OF HONSHU, JAPAN.
25	14 42 27.8	39.6 N	143.2 E	35	5.0	OFF EAST COAST OF HONSHU, JAPAN.
25	14 53 34.5	39.7 N	143.2 E	37	5.4	OFF EAST COAST OF HONSHU, JAPAN.
25	15 48 00.2	41.6 N	74.9 E	37	5.5	KIRGIZ SSR.
25	15 49 49.1	9.6 S	148.8 E	37	6.0	EAST NEW GUINEA REGION.
25	16 27 19*	31.7 S	90.6 W	33	5.0	SOUTHEAST CENTRAL PACIFIC OCEAN.
25	16 52 09.7	13.0 N	145.3 E	40	5.4	MARIANA ISLANDS. MAG. 5-5.3 (BRK).
25	17 43 43.0	34.7 N	116.5 W	15	5.0	SOUTHERN CALIFORNIA. MAG. 5 1/4 (PAS), 5.7 (BRK). FELT IN SOUTHERN CALIFORNIA; LAS VEGAS, NEVADA; AND NEEDLES, ARIZONA.
25	17 48 01.9	34.7 N	116.5 W	16		SOUTHERN CALIFORNIA. MAG. 5 (PAS), 5 (BRK). FELT IN SOUTHERN CALIFORNIA; LAS VEGAS, NEVADA; AND NEEDLES, ARIZONA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
25	18 06 33.4	34.7 N	116.4 W	16		SOUTHERN CALIFORNIA. MAG. 3.2 (PAS).
25	20 06 00*	20.1 N	105.7 W	33	4.1	NEAR COAST OF JALISCO, MEXICO.
25	20 10 07*	54.2 N	35.3 W	33	4.8	NORTH ATLANTIC OCEAN. MAG. 5-5 1/4 (PAL).
25	20 59 18.8	24.5 S	68.6 W	102	4.8	CHILE-ARGENTINA BORDER REGION.
26	00 20 37*	24.3 S	69.2 W	115	4.5	NORTHERN CHILE.
26	00 36 23.0	18.4 N	101.2 W	77	5.2	GUERRERO, MEXICO.
26	01 02 58.8	31.8 S	179.8 E	402	4.6	KERMADEC ISLANDS.
26	02 37 50.9	34.7 N	116.4 W	8		SOUTHERN CALIFORNIA. MAG. 3 1/4 (PAS), 4 (BRK). FELT AT BARSTOW AND PASADENA.
26	04 03 36.4	51.2 N	178.9 E	51	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
26	05 47 56.2	13.0 S	70.3 W	37	4.3	PERU.
26	06 57 15.4	31.0 S	178.3 W	60	4.6	KERMADEC ISLANDS.
26	07 00 01.2	34.7 N	116.5 W	16		SOUTHERN CALIFORNIA. MAG. 5-5 1/4 (PAS), 5.2 (BRK). FELT.
26	08 15 21.0	6.4 S	151.7 E	20	4.7	NEW BRITAIN REGION.
26	08 30 40.9	23.3 S	180.0 W	549		SOUTH OF FIJI ISLANDS.
26	10 03 18.7	54.3 N	35.3 W	33	4.8	NORTH ATLANTIC OCEAN. MAG. 5-5 1/4 (PAL).
26	13 16 01.0	23.2 S	176.0 W	73	4.8	SOUTH OF FIJI ISLANDS.
26	13 48 40.6	49.5 N	159.2 E	33	4.5	KURILE ISLANDS REGION.
26	14 20 00*	13.8 S	73.0 W	67	3.7	PERU.
26	15 47 41*	40.4 N	124.7 W	33	4.3	NEAR COAST OF NORTHERN CALIF.
26	18 49 42.7	8.7 N	74.5 W	98	3.8	NORTHERN COLOMBIA.
26	19 28 27*	20.4 N	105.6 W	33	4.0	NEAR COAST OF JALISCO, MEXICO.
26	19 41 46*	31.5 N	131.7 E	45	4.3	KYUSHU, JAPAN.
26	21 33 54.3	54.8 S	38.3 W	33	6.1	SOUTH GEORGIA ISLAND REGION. MAG. 5 1/2-5 3/4 (PAL).
27	01 10 58.6	67.5 N	139.9 E	35	4.6	EASTERN SIBERIA.
27	01 18 46*	6.7 N	84.5 W	33	3.9	OFF COAST OF CENTRAL AMERICA.
27	03 15 55.3	1.4 S	80.6 W	86	4.6	NEAR COAST OF ECUADOR.
27	04 27 04*	15.1 S	173.7 W	98	4.0	TONGA ISLANDS.
27	04 39 41.7	31.8 S	177.7 W	33	4.1	KERMADEC ISLANDS.
27	05 09 12.9	51.9 N	175.6 E	39	5.5	RAT ISLANDS, ALEUTIAN ISLANDS. MAG. 5 1/4-5 1/2 (PAL).
27	08 30 59.4	51.5 N	179.3 W	49	4.8	ANDREANOF ISLANDS, ALEUTIAN IS.
27	10 00 44.1	16.8 S	167.3 E	21	4.6	NEW HEBRIDES ISLANDS.
27	11 23 06*	65.4 N	164.6 W	33	3.8	ALASKA.
27	16 04 24.6	36.5 N	70.2 E	221	4.4	HINDU KUSH REGION.
27	17 37 54*	12.9 N	88.4 W	33	4.2	OFF COAST OF CENTRAL AMERICA.
27	20 39 42.0	46.0 N	151.1 E	44	4.8	KURILE ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP	H M S	DEG	DEG	KM		
27	21 05 10.6	39.1 N	23.9 E	33		AEGEAN SEA.
28	05 06 39.8	28.1 S	178.1 W	53		KERMADEC ISLANDS. MAG. 6 1/2-6 3/4 (PAS), 6.25-6.5 (BRK), 6 1/2-6 3/4 (PAL).
28	07 47 38.1	29.3 N	142.1 E	33	4.8	SOUTH OF HONSHU, JAPAN.
28	08 03 06.5	29.2 N	142.2 E	27	4.6	SOUTH OF HONSHU, JAPAN.
28	08 24 07*	21.5 S	180.0 W	642	4.2	FIJI ISLANDS REGION.
28	10 01 04.9	14.0 S	166.3 E	35	4.6	NEW HEBRIDES ISLANDS.
28	10 18 35*	14.6 S	173.7 W	33	4.5	SAMOA ISLANDS REGION.
28	11 17 29.4	59.3 S	26.9 W	33	5.5	SOUTH SANDWICH ISLANDS REGION.
28	13 18 40.7	34.2 N	117.7 W	9	4.1	SOUTHERN CALIFORNIA. MAG. 3.5 (PAS).
28	13 50 02.9	34.2 N	117.7 W	8	3.7	SOUTHERN CALIFORNIA. MAG. 3.5 (PAS).
28	18 40 58*	22.3 S	68.8 W	130	4.1	NORTHERN CHILE.
28	19 24 27.1	31.2 S	177.3 W	33	4.8	KERMADEC ISLANDS.
28	22 35 02.1	27.0 S	71.0 W	33	4.7	NEAR COAST OF NORTHERN CHILE.
28	23 20 24*	45.3 N	28.2 W	33	4.3	NORTH ATLANTIC RIDGE.
29	01 16 28.9	32.1 S	177.9 W	30	4.4	SOUTH OF KERMADEC ISLANDS.
29	05 06 50.6	59.0 S	25.6 W	33	5.4	SOUTH SANDWICH ISLANDS REGION.
29	13 11 28.0	6.4 N	124.6 E	28	4.5	MINDANAO, PHILIPPINE ISLANDS.
29	13 49 26.2	52.5 N	170.7 W	55	5.0	FOX ISLANDS, ALEUTIAN ISLANDS.
29	15 25 17.4	28.3 S	177.8 W	73	4.5	KERMADEC ISLANDS.
29	18 59 56*	39.8 N	105.1 W	5	4.7	COLORADO. SLIGHT DAMAGE IN DENVER AREA.
29	19 20 41*	39.8 N	104.8 W	5	4.6	COLORADO. FELT IN DENVER AREA.
29	21 26 35.6	28.2 S	177.6 W	26	4.8	KERMADEC ISLANDS.
29	21 41 23*	17.1 S	179.7 W	609	4.0	FIJI ISLANDS REGION.
29	22 18 59.8	45.0 N	28.2 W	33	4.2	NORTH ATLANTIC RIDGE.
29	22 52 31.4	29.3 S	179.3 W	33	4.5	KERMADEC ISLANDS.
29	23 20 17.9	45.2 N	28.2 W	24	5.4	NORTH ATLANTIC RIDGE.
29	23 22 58*	39.8 N	104.8 W	5	4.6	COLORADO. FELT IN DENVER AREA.
30	01 25 20.7	4.3 N	82.6 W	38	4.2	SOUTH OF PANAMA.
30	01 30 21*	18.6 N	104.7 W	33	3.8	NEAR COAST OF JALISCO, MEXICO.
30	02 24 48.4	36.8 N	71.0 E	96		AFGHANISTAN-USSR BORDER REGION.
30	04 10 36.4	20.4 N	105.8 W	33	4.4	NEAR COAST OF JALISCO, MEXICO.
30	04 12 37*	27.2 S	177.9 W	62	4.6	KERMADEC ISLANDS.
30	07 06 34.4	21.2 S	179.3 W	615	4.8	FIJI ISLANDS REGION.
30	07 07 45.0	21.1 S	179.2 W	615	4.7	FIJI ISLANDS REGION.
30	11 35 07*	3.1 S	79.0 W	73	3.8	NEAR COAST OF ECUADOR.
30	13 24 48*	15.6 S	167.0 E	28		NEW HEBRIDES ISLANDS.
30	21 35 27.7	24.3 N	122.2 E	66	4.6	TAIWAN REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
SEP 30	H M S 23 47 39.9	DEG 59.7 N	DEG 143.4 W	KM 12	5.0	GULF OF ALASKA. MAG. 5-5.3 (BRK), 6 1/4-6 1/2 (PAL).

Date and Station	Phase (GCT) h m s
SEP 1	
COL EP	02 23 44.0
SEP 1	
H-04 29 20.6	
51.3N 150.7E	
h ABOUT 519KM	
COL IP	04 35 19.6
IpP	36 51.1
E(S)	40 05.5
HHM EP	04 38 19.1
EPCP	39 07.0
BUT EP	04 38 34.2
BOZ IP D	04 38 41.6
EpP	40 25.5
EUR IP	04 38 54.5
IPCP	39 27.6
IpP	40 39.5
SLC IP	04 39 02.2
FGU EP	04 39 05.7
BCN IP D	04 39 14.6
GCA IP	04 39 20.3
TUC IP D	04 39 43.7
ALQ IP	04 39 46.2
SEP 1	
H-04 47 35.0	
34.5S 179.7E	
h ABOUT 107KM	
HON IP	04 57 28.3
KIP IP	04 57 28.9
UKI E(P)	05 00 25.0
BCN EP	05 00 38.2
EPP	04 22.0
TUC EP	05 00 39.3
ESKS	11 00.0
EPKKP	17 45.0
E	18 22.0
EUR IP D	05 00 45.2
IPP	04 35.0
E(SKS)	11 15.5
IPKKP	18 17.0
EP'P'	25 55.0
GCA EP	05 00 51.0
ALQ IP	05 00 58.2
IPP	04 56.5
BOZ EP	05 01 14.2
EPP	05 15.5
EPKKP	17 20.0
BUT EPP	05 05 09.7
COL EP	05 01 18.0
EPP	05 23.0

Date and Station	Phase (GCT) h m s
SEP 1	
BOZ EP	05 44 04.0
SEP 1	
H-06 38 36.2	
14.5S 167.4E	
h ABOUT 190KM	
GUA EP	06 45 17.0
ES	50 48.0
COL IP	06 50 55.0
IpP	51 44.0
EPKKP	07 08 54.1
BCN EP	06 51 11.0
EpP	51 55.5
PKKP	08 51.5
EUR IP	06 51 12.2
IpP	51 57.2
I	52 28.0
EPP	54 44.3
EpPP	55 32.5
EPKKP	07 08 49.8
EP'P'	16 57.5
TUC EP	06 51 20.3
EpP	52 05.7
ESKS	07 01 38.0
FGU EP	06 51 33.0
BOZ EP	06 51 34.0
EpP	52 20.0
ALQ IP	06 51 38.0
SJG EP'	06 57 22.5
EpP'	58 10.0
SEP 1	
CED EP	06 57 54.4
IS	58 15.4
BCN E(P)	06 58 18.0
EL	59 03.0
SEP 1	
H-07 02 24.9	
34.5N 139.0E	
h ABOUT 68KM	
COL IP	07 11 31.9
BUT EP	07 14 13.2
BOZ FP	07 14 17.0
EUR IP	07 14 24.0
FGU EP	07 14 37.4
SEP 1	
H-07 33 28.0	
18.8S 172.5W	
h ABOUT 44KM	
BCN EP	07 45 19.0
TUC E(P)	07 45 23.7
EUR IP	07 45 26.0

Date and Station	Phase (GCT) h m s
FGU FP	07 45 49.5
BOZ EP	07 45 57.5
E	48 29.5
COL IP	07 46 02.0
SEP 1	
H-09 00 59.3	
52.6N 159.8E	
h ABOUT 21KM	
COL EP	09 06 58.0
BOZ E(P)	09 10 29.5
EUR EP	09 10 43.5
SEP 1	
COL EP	10 08 53.0
SEP 1	
H-11 23 41.9	
45.1N 142.2E	
h ABOUT 238KM	
COL IP	11 31 11.5
BOZ IP	11 34 21.0
EUR IP	11 34 32.2
BCN EP	11 34 50.5
SEP 1	
COL IP	13 12 27.5
SEP 1	
COL FP	13 18 42.2
SEP 1	
COL EP	15 07 07.0
SEP 1	
HHM EP	15 57 57.2
SEP 1	
H-16 31 17.6	
17.0S 177.6W	
h ABOUT 424KM	
EUR IP	16 42 44.8
COL IP	16 43 05.6
BOZ IP	16 43 15.0
SEP 1	
COL EP	16 32 57.8
SEP 1	
HHM EP	17 13 32.2
SEP 1	
EUR IP	18 42 18.2
ALQ IP	18 43 13.5
I	45 08.6
SEP 1	
TUC FP	18 53 02.0
ES	53 28.3

Date and Station	Phase (GCT) h m s
SEP 1	
TUC E(P)	19 34 13.2
E	34 51.5
SEP 1	
ALQ IP	19 56 06.8
I	59 23.4
SEP 1	
GCA FP	20 00 05.4
SEP 1	
H-20 07 26.5	
20.3S 173.6W	
h ABOUT 63KM	
EUR E(P)	20 19 47.5
COL IP	20 20 05.5
EpP	20 21.2
SEP 1	
BUT FP	20 07 47.6
IL	08 17.6
SEP 01	
H-20 08 04.0	
37.0N 116.0W	
h ABOUT 0KM	
BCN IP C	20 08 26.5
EUR IP	20 08 41.3
CED IP	20 08 48.6
GCA I(P)	20 08 52.3
I	09 06.5
TUC EP	20 09 36.5
F	09 43.5
I	10 03.8
FGU F(P)	20 09 36.5
ALQ I(P)	20 09 59.0
F	10 28.2
BOZ FP	20 10 20.0
COL IP	20 14 44.1
SEP 1	
BCN IP	20 15 52.4
EUR E(P)	20 16 12.6
SEP 1	
BOZ FP	20 22 52.0
IL	23 40.0
SEP 1	
BCN IP D	20 37 12.0
EUR F(P)	20 37 16.0
GCA E(P)	20 37 47.7
I	37 51.4
ALQ IP	20 38 48.6

Date and Station	Phase (GCT)
	h m s
SEP 1	
H-22 29 14.4	
15.8S 167.2E	
h ABOUT 21KM	
COL EP	22 41 59.7
EUR E(P)	22 42 14.9
ALQ I(P)	22 42 33.5
TUC E(P)	22 42 34.3
E	42 42.6
SEP 1	
H-22 37 59.8	
16.3N 095.2W	
h ABOUT 134KM	
EUR E(P)	22 43 52.0
I	44 14.5
SEP 1	
H-23 52 34.7	
18.2S 177.9W	
h ABOUT 609KM	
EUR IP	24 03 50.0
TUC EP	24 03 52.5
COL IP	24 04 10.5
SEP 2	
H-00 20 32.3	
44.4N 149.3E	
h ABOUT 30KM	
COL E(P)	00 28 06.0
EUR IP	00 31 22.9
I	31 39.5
TUC E(P)	00 32 10.7
SEP 2	
GUA IP	01 17 23.0
S	17 39.0
SEP 2	
BUT EP	02 04 21.7
EL	04 30.7
HHM IP	02 04 49.0
I	05 19.6
SEP 2	
H-02 07 58.8	
28.9N 112.9W	
h ABOUT 11KM	
TUC EP D	02 08 59.0
EL	09 55.0
BCN EP	02 09 47.2
EL	12 09.5
ALQ IP	02 09 59.0
IL	12 36.0
GCA EP	02 10 01.4
EUR IP	02 10 38.0
IL	14 05.0
SLC EP	02 10 55.0
FGU EP	02 10 56.8
BOZ EP	02 12 00.0
EL	16 28.0
BUT EP	02 12 05.7
HHM IP	02 12 28.7
COL EP	02 15 53.0
SEP 2	
COL EP	02 38 54.0
SEP 2	
BOZ E(P)	02 42 01.0
EUR IP	02 42 10.0
SEP 2	
EUR IP	02 48 13.7
SEP 2	
COL EP	03 00 08.0
SEP 2	
H-03 01 43.7	
16.4S 167.1E	
h ABOUT 13KM	
COL EP	03 14 33.1
EUR IP	03 14 50.1
SEP 2	
H-04 26 36.7	
52.0N 175.5E	
h ABOUT 24KM	
COL IP	04 31 39.0
BRW IP C	04 31 41.9
HON IP	04 33 45.0
ES	39 38.0
EL	43 24.0
KIP IP	04 33 45.3
BOZ EP	04 35 04.0
I	35 14.0
ES	41 27.5
EL	45 00.0
EUR IP	04 35 13.5
IPCP	36 42.3
ISCP	40 33.7
SLC E(P)	04 35 25.2
FGU E(P)	04 35 32.3
E	35 39.5
ISCP	40 42.5
BCN EP	04 35 39.5
EPCP	37 04.0
ESCP	40 46.9
GCA E(P)	04 35 48.5
TUC E(P)	04 36 11.5
ALQ IP	04 36 18.2
EPCP	37 13.5
SJG IP	04 39 46.6
IsP	39 54.5
EsP	39 58.2
SEP 2	
KIP E(P)	05 11 47.5
SEP 2	
HON F(P)	05 12 00.5
SEP 2	
COL EP	07 10 04.0
BOZ EP	07 12 56.0
EUR EP	07 13 21.5
SEP 2	
H-08 02 41.4	
36.8N 121.3W	
h ABOUT 16KM	
EUR EP	08 04 03.3
IL	05 18.0
SEP 2	
H-08 16 28.8	
37.1N 121.3W	
h ABOUT 16KM	
EUR EP	08 17 48.8
IL	19 01.5
SEP 2	
EUR IP	10 54 05.2
SEP 2	
H-11 37 49.9	
48.3N 128.1W	
h ABOUT 33KM	
EUR IP	11 40 48.2
ALQ E(P)	11 42 25.5
SEP 2	
HON E(P)	11 43 39.8
KIP E(P)	11 43 40.0
SEP 2	
H-12 15 15.0	
51.2N 171.6W	
h ABOUT 33KM	
COL IP	12 19 29.0
BOZ EP	12 22 42.0
EUR IP	12 22 48.2
SEP 2	
EUR E(P)	13 02 06.5
SEP 2	
EUR E(P)	13 24 54.0
SEP 2	
H-14 02 37.3	
48.4N 128.2W	
h ABOUT 33KM	
EUR IP	14 05 37.1
COL EP	14 07 04.4
TUC E(P)	14 07 16.0
F(S)	11 19.0
ALQ IP	14 07 21.6
SEP 2	
EUR E(P)	14 10 52.0
SEP 2	
CED IP	14 37 44.6
IS	38 05.1
SEP 2	
H-15 42 25.6	
48.3N 128.4W	
h ABOUT 33KM	
EUR IP	15 45 26.0
GCA E(P)	15 46 22.6
COL F(P)	15 46 54.0
TUC EP	15 47 06.0
EL	51 07.0
ALQ IP	15 47 09.0
SEP 2	
H-15 43 39.6	
48.2N 128.5W	
h ABOUT 33KM	
EUR IP	15 46 40.0
COL E(P)	15 48 08.0
TUC E(P)	15 48 19.0
EL	52 23.0
ALQ IP	15 48 22.8
SEP 2	
COL E(P)	16 03 29.5
F	03 37.7
EUR E(P)	16 07 02.0
SEP 2	
COL IP	16 07 34.8
BOZ EP	16 10 44.5
EUR EP	16 10 53.8
SEP 2	
H-18 01 19.5	
48.3N 128.3W	
h ABOUT 33KM	
EUR IP	18 04 19.8
COL EP	18 05 48.0
TUC E(P)	18 05 59.4
EL	10 07.0

Date and Station	Phase (GCT)
	h m s
SEP 2	
H-18 03 10.6	
35.9N 140.0E	
h ABOUT 88KM	
COL EP	18 12 03.0
EUR EP	18 14 58.6
SEP 2	
EUR IP	18 41 21.8
SEP 2	
COL IP	19 15 03.9
SEP 2	
H-19 28 32.9	
43.9N 149.4E	
h ABOUT 17KM	
COL EP	19 36 11.0
BOZ E(P)	19 39 08.0
E	39 29.5
EUR EP	19 39 26.6
SEP 2	
H-19 41 25.6	
48.4N 128.3W	
h ABOUT 33KM	
EUR IP	19 44 26.1
COL EP	19 45 53.0
TUC E(P)	19 46 06.3
E(S)	50 14.0
SEP 2	
H-20 09 26.3	
47.1N 154.1E	
h ABOUT 33KM	
COL EP	20 16 21.0
EUR EP	20 19 47.7
SEP 2	
BOZ E(P)	20 12 08.5
I	12 23.0
EUR EP	20 12 31.5
SEP 2	
CFD IP	20 14 11.6
IL	14 39.6
SEP 2	
HHM EP	20 22 42.2
EL	23 01.3
SEP 2	
H-21 16 43.7	
48.4N 128.2W	
h ABOUT 33KM	
EUR IP	21 19 43.1
COL E(P)	21 21 11.3
TUC E(P)	21 21 23.6

Date and Station	Phase (GCT)
	h m s
SEP 2	
H-21 27 16.6	
48.4N 128.2W	
h ABOUT 26KM	
EUR IP	21 30 18.1
COL EP	21 31 45.0
TUC E(P)	21 31 57.5
E(S)	36 07.0
ALQ I(P)	21 32 00.0
SEP 2	
SJG EP	21 32 07.6
IL	32 37.3
SEP 2	
GUA IP	21 43 31.0
E	47 29.0
SEP 2	
EUR IP	21 52 43.5
SEP 2	
ALQ IP	22 29 50.0
SEP 2	
H-22 36 46.9	
16.4S 167.2E	
h ABOUT 18KM	
COL EP	22 49 34.0
EUR E(P)	22 49 58.9
SEP 2	
H-23 09 03.8	
16.3S 167.2E	
h ABOUT 19KM	
COL EP	23 21 50.0
EUR E(P)	22 22 05.3
SEP 2	
EUR IP	23 11 07.5
SEP 3	
COL E(P)	00 30 25.3
EUR EP	00 33 07.2
ALQ IP	00 34 10.5
E	35 13.5
TUC EP	00 35 10.0
SEP 3	
COL E(P)	00 34 57.5
SEP 3	
BCN E(P)	01 21 25.0
E	21 33.7
EL	22 33.0
SEP 3	
H-02 23 37.8	
23.5S 179.8W	
h ABOUT 532KM	
TUC EP	02 35 24.2

Date and Station	Phase (GCT)
	h m s
EUR EP	02 35 25.0
ALQ I(P)	02 35 44.2
SEP 3	
COL EP	02 40 36.0
SEP 3	
BOZ E(P)	04 03 15.0
SEP 3	
H-04 03 37.6	
19.6N 107.6W	
h ABOUT 33KM	
EUR IP	04 08 21.1
SEP 3	
HHM EP	04 34 40.5
I	36 28.5
SEP 3	
COL EP	04 41 26.0
SEP 3	
H-04 42 36.1	
48.4N 128.2W	
h ABOUT 12KM	
BOZ E(P)	04 45 30.0
EUR IP	04 45 39.0
COL EP	04 47 06.0
TUC E(P)	04 47 18.7
ALQ IP	04 47 22.5
SEP 3	
H-05 42 27.0	
27.4S 063.2W	
h ABOUT 582KM	
ALQ IP	05 53 07.2
TUC E(P)	05 53 09.0
FGU EP	05 53 36.1
BCN EP	05 53 36.2
EUR IP	05 53 52.2
BOZ E(P)	05 54 03.0
HHM EP	05 54 16.0
SEP 3	
EUR EP	08 01 07.2
SEP 3	
H-10 36 03.1	
12.9S 166.6E	
h ABOUT 185KM	
COL IP	10 48 16.7
I▸P	49 05.9
EUR EP	10 48 36.7

Date and Station	Phase (GCT)
	h m s
SEP 3	
H-10 44 31.0	
20.6S 069.5W	
h ABOUT 96KM	
SJG EP	10 51 41.7
ALQ IP	10 55 05.0
EUR IP	10 55 57.6
E▸P	55 22.5
BOZ EP	10 56 10.0
E▸P	56 35.0
SEP 3	
COL EP	11 05 22.6
SEP 3	
COL EP	12 11 22.0
SEP 3	
H-14 27 56.2	
28.8S 067.4W	
h ABOUT 124KM	
EUR E(P)	14 40 02.0
E▸P	40 36.0
SEP 3	
EUR EP	14 59 23.8
SEP 3	
COL E(P)	16 13 22.4
SEP 3	
H-16 18 51.1	
52.0N 176.2E	
h ABOUT 30KM	
COL EP	16 23 49.0
BOZ EP	16 27 13.6
EUR IP	16 27 23.3
TUC E(P)	16 28 14.3
SEP 3	
COL E(P)	18 16 49.9
I	17 01.0
SEP 3	
EUR EP	18 41 11.2
SEP 3	
COL EP	19 41 04.0
SEP 3	
COL EP	19 49 43.0
SEP 3	
H-20 33 37.1	
16.0S 167.4E	
h ABOUT 48KM	
COL E(P)	20 46 17.0
EUR I(P)	20 46 47.0
SEP 3	
ALQ EP	20 35 21.6

Date and Station	Phase	Time (GCT) h m s
SEP 3		
H-21 38 53.8		
5.3S 153.7E		
h ABOUT 54KM		
COL	IP	21 51 07.3
	I	51 33.4
FUR	IP	21 52 05.0
	E>P	52 21.5
SEP 2		
COL	E(P)	22 17 15.0
	I	17 18.9
SEP 3		
EUR	E(P)	22 20 53.0
SEP 4		
BHP	EP	02 59 44.0
SEP 4		
COL	EP	03 16 49.0
SEP 4		
H-03 25 41.4		
18.5N 145.2E		
h ABOUT 221KM		
GUA	EP	03 26 57.0
COL	E(P)	03 35 50.3
EUR	IP	03 37 53.6
BOZ	EP	03 37 57.0
SEP 3		
COL	IP	04 31 51.2
SEP 4		
H-07 48 43.9		
52.0N 170.4W		
h ABOUT 28KM		
COL	EP	07 52 45.2
	I	52 52.5
	ES	56 18.0
	EL	58 03.0
BRW	EP	07 53 20.3
HHM	EP	07 55 39.0
	EPCP	58 09.0
BUT	E(P)	07 55 57.8
BOZ	EP	07 56 03.5
	I	56 17.5
	ESCP	08 02 10.0
EUR	IP	07 56 12.0
	ESCP	08 02 06.0
SLC	EP	07 56 29.8
FGU	E(P)	07 56 34.8
BCN	EP	07 56 35.0
GCA	E(P)	07 56 46.5
TUC	EP	07 57 14.4
ALQ	IP	07 57 21.2
	E	57 34.4
SJG	EP	08 01 15.6
HON	EL	08 03 32.2
SEP 4		
KIP	EP	08 29 20.8
SEP 4		
COL	EP	08 57 45.8
SEP 4		
H-09 42 10.9		
42.1N 125.4W		
h ABOUT 33KM		
EUR	IP	09 44 02.6
BOZ	EP	09 44 44.0
SEP 4		
H-10 09 07.8		
45.3N 150.3E		
h ABOUT 40KM		
COL	EP	10 16 27.4
	E>P	16 38.0
BOZ	EP	10 19 40.0
EUR	IP	10 19 49.5
	E>P	20 01.9
SEP 4		
H-10 19 50.5		
46.7N 153.4E		
h ABOUT 23KM		
BRW	E(P)	10 26 50.4
COL	IP	10 26 52.5
	I	27 15.9
	E	20 28 24.2
	EL	37 36.0
KIP	E(P)	10 28 12.3
HON	ES	10 35 09.0
	ESS	39 07.0
HHM	EP	10 29 47.5
BUT	E(P)	10 30 03.3
BOZ	IP	10 30 09.0
	I	30 16.5
	IS	38 35.0
EUR	IP	10 30 18.2
SLC	EP	10 30 30.8
BCN	EP	10 30 38.0
GCA	E(P)	10 30 48.0
TUC	E(P)	10 31 08.0
ALQ	EP	10 31 12.5
SEP 4		
H-12 33 53.5		
46.6N 153.1E		
h ABOUT 33KM		
COL	IP	12 40 55.0
BOZ	EP	12 44 12.0
EUR	EP	12 44 21.8
ALQ	E(P)	12 45 15.0
SEP 4		
COL	EP	14 31 00.0
SEP 4		
H-14 32 46.7		
58.2N 152.7W		
h ABOUT 10KM		
COL	IP C	14 34 33.0
	IS	35 54.9
SIT	E(P)	14 35 00.0
	EL	37 12.0
BRW	IP C	14 35 59.2
	I	36 05.7
	I	36 17.1
	EL	39 46.0
HHM	IP	14 38 10.0
	IS	42 31.0
UKI	E(P)	14 38 29.5
	EL	45 40.0
BUT	IP	14 38 31.4
	ES	43 05.4
BOZ	IP D	14 38 37.4
	IS	43 10.0
EUR	IP D	14 38 57.9
	I(S)	43 54.5
SLC	EP	14 39 07.0
	ES	44 10.4
BCN	IP D	14 39 27.5
	I	39 32.0
	ESCP	45 49.5
	E	46 13.0
GCA	IP	14 39 34.0
KIP	EP	14 39 58.0
HON	EP	14 39 58.5
	ES	45 59.8
	EL	48 30.0
ALQ	IP	14 40 08.8
	E	40 14.0
TUC	EP D	14 40 09.0
	ES	46 06.0
PHI	EP	14 41 45.8
	IS	49 08.0
WSC	EP	14 41 46.0
WAS	EP	14 41 49.0
	E(S)	49 05.0
GUA	E(P)	14 43 20.0
SJG	EP D	14 44 18.1
	EPP	47 02.0
	EPPP	48 50.0
	ES	53 31.0
	ESCS	54 30.0
	ESS	58 13.0
	ESSS	15 01 50.0
BHP	IP	14 44 20.0
SEP 4		
COL	E(P)	15 12 19.0
SEP 4		
COL	E(P)	15 48 17.0
SEP 4		
BHP	EP	16 22 53.0
	IS	23 47.0
SEP 4		
EUR	IP	17 48 18.0
SEP 4		
EUR	IP	21 04 06.2
SEP 4		
H-21 26 41.9		
16.6S 172.4W		
h ABOUT 19KM		
TUC	EP	21 38 33.0
EUR	E(P)	21 38 33.0
ALQ	EP	21 38 57.2
BOZ	EP	21 39 06.0
	E	39 17.5
COL	IP	21 39 07.3
	E	39 17.8
SEP 4		
H-21 37 27.5		
36.0S 098.7W		
h ABOUT 35KM		
SJG	EP	21 47 45.5
TUC	E(P)	21 48 30.6
	E(S)	57 37.0
ALQ	IP	21 48 43.2
BCN	E(P)	21 49 00.7
	E	49 12.0
GCA	E(P)	21 49 03.8
EUR	IP	21 49 16.0
	E	53 34.0
BOZ	EP	21 49 46.0
BUT	E(P)	21 49 48.5
	E	49 53.5
HHM	E(P)	21 50 05.0

Date and Station	Phase (GCT)
	h m s
SEP 4	
H-21 41 17.9	
23.3S 068.1W	
h ABOUT 248KM	
EUR EP	21 52 44.1
SEP 4	
BHP IP	21 53 29.5
SEP 5	
SLC EP	01 25 02.3
EL	25 30.1
EUR IP	01 25 45.2
IL	26 36.5
SEP 5	
H-07 26 19.8	
38.8N 144.4E	
h ABOUT 63KM	
COL EP	07 34 40.0
I▸P	34 57.5
E	35 08.2
BOZ EP	07 37 37.0
EUR IP	07 37 46.0
SEP 5	
BUT E(P)	09 56 42.6
SEP 5	
EUR IP	10 08 32.0
SEP 5	
COL FP	10 10 43.0
SEP 5	
H-10 30 52.2	
28.3S 070.6W	
h ABOUT 45KM	
EUR IP	11 02 56.5
SEP 5	
ALQ IP	11 19 26.0
SEP 5	
H-11 31 16.9	
17.7S 178.6W	
h ABOUT 573KM	
EUR IP	11 42 36.1
TUC EP	11 42 38.4
COL EP	11 42 54.2
E▸P	44 59.3
ALQ IP	11 42 59.4
BOZ EP	11 43 05.0
SEP 5	
HHM EP	11 52 36.4
SEP 5	
H-12 11 02.1	
51.8N 176.3W	
h ABOUT 44KM	
COL EP	12 15 30.0
EUR IP	12 18 58.0
EPCP	20 45.9
ALQ E(P)	12 20 03.5
SEP 5	
H-12 15 20.0	
24.1S 179.9E	
h ABOUT 570KM	
EUR E(P)	12 27 06.0
TUC EP	12 27 06.1
COL E(P)	12 27 29.3
SEP 5	
EUR IP	12 38 06.2
SEP 5	
EUR IP	13 33 49.9
IL	34 14.4
SEP 5	
COL FP	15 17 06.5
SEP 5	
COL FP	15 40 48.0
SEP 5	
COL E(P)	19 33 50.5
SEP 5	
H-20 04 11.5	
06.3S 151.9E	
h ABOUT 37KM	
COL EP	20 16 37.0
EUR E(P)	20 17 37.0
SEP 5	
GUA IP	20 56 20.7
ES	56 37.0
SEP 5	
HHM EP	21 22 14.9
SEP 5	
H-21 22 36.5	
20.4S 178.3W	
h ABOUT 558KM	
EUR E(P)	21 34 06.0
COL EP	21 34 27.0
E▸P	36 33.0
SEP 5	
CED IP	22 55 42.2
SEP 5	
H-23 01 54.2	
21.7N 120.9E	
h ABOUT 14KM	
COL EP	23 13 14.0
SEP 5	
H-23 20 41.1	
16.9S 172.2W	
h ABOUT 33KM	
EUR E(P)	23 32 31.0
COL EP	23 33 07.0
SEP 6	
BHP EP	00 38 16.2
IS	38 41.1
SEP 6	
EUR E(P)	01 38 56.0
SEP 6	
H-02 56 16.7	
21.1N 121.1E	
h ABOUT 46KM	
COL EP	03 07 34.0
E▸P	07 48.0
SEP 6	
COL EP	02 58 10.0
SEP 6	
H-03 18 40.0	
21.3N 121.4E	
h ABOUT 46KM	
COL EP	03 29 56.0
SEP 6	
GUA EP	03 24 14.0
SEP 6	
SJG E(P)	03 30 03.5
SEP 6	
EUR IP	04 27 46.8
SEP 6	
H-04 59 41.5	
18.6N 067.6W	
h ABOUT 33KM	
SJG IP C	05 00 03.4
ES	01 22.2
SEP 6	
EUR E(P)	05 39 19.2
SEP 6	
H-08 35 05.3	
13.5N 091.1W	
h ABOUT 88KM	
ALQ IP	08 40 27.2
COL EP	08 45 31.4
E	46 07.8
SEP 6	
H-11 42 41.5	
46.7N 152.7E	
h ABOUT 70KM	
KIP EP	11 51 08.0
CED EP	11 53 22.1
E▸P	53 39.9
EUR IP C	11 53 06.4
I▸P	53 21.9
BCN EP	11 53 25.5
E▸P	53 44.0
TUC IP C	11 53 55.0
E▸P	54 14.0
ALQ IP	11 54 00.2
SEP 6	
GUA EP	12 14 33.0
IS	14 50.0
SEP 6	
TUC E(P)	12 16 26.0
EL	17 18.0
SEP 6	
GUA EP	12 22 12.0
ES	22 30.0
SEP 6	
GUA EP	12 32 49.0
ES	33 06.0
SEP 6	
H-13 16 01.7	
06.1S 151.1E	
h ABOUT 43KM	
GUA EP	13 20 38.6
COL EP	13 28 25.0
EUR EP	13 29 27.6
SEP 6	
COL EP	13 32 52.0
SEP 6	
TUC E(P)	14 51 21.0
EL	52 13.0
SEP 6	
COL EP	15 14 15.0
SEP 6	
TUC E(P)	15 43 05.0
ALQ IP	15 44 13.6
EUR EP	15 44 30.5
EL	47 19.0
SEP 6	
H-16 05 35.9	
15.9N 095.0W	
h ABOUT 68KM	
ALQ EP	16 10 21.6
EUR EP	16 11 37.5
COL EP	16 15 39.0
SEP 6	
H-16 25 53.5	
09.3S 075.9W	
h ABOUT 31KM	
ALQ EP	16 35 07.0
EUR EP	16 36 07.5
COL E(P)	16 38 54.3

Date and Station	Phase	Phase (GCT) h m s
SEP 6		
CED	EP	18 01 39.8
	IL	02 13.8
FUR	EP	18 02 10.8
	I	02 22.1
	IL	03 24.1
SEP 6		
FUR	EP	18 27 26.8
SEP 6		
H-19 16 31.9		
1.8S 138.9E		
h ABOUT 65KM		
SJG	EP'	19 36 20.0
SEP 6		
H-21 13 32.8		
6.6N 084.3W		
h ABOUT 40KM		
BHP	IP	21 14 51.6
SJG	IP C	21 18 17.4
	ES	22 22 12.5
ALQ	IP	21 20 22.5
TUC	EP	21 20 28.0
	ES	26 10.0
GCA	EP	21 21 00.8
FGU	EP	21 21 08.2
BCN	EP	21 21 10.8
SLC	EP	21 21 23.1
EUR	IP	21 21 34.2
BUT	EP	21 21 56.9
HON	EL	21 46 30.0
SEP 6		
ALQ	E(P)	22 17 16.0
SEP 6		
H-22 52 42.2		
6.7N 084.3W		
h ABOUT 27KM		
BHP	EP	22 54 01.0
SJG	EP	22 57 26.5
EUR	E(P)	23 00 46.3
SEP 6		
H-23 20 39.4		
6.9N 084.4W		
h ABOUT 33KM		
BHP	EP	23 21 59.0
SJG	EP	23 25 20.8
EUR	EP	23 28 40.0
SEP 6		
BHP	IP	23 35 30.5
	IS	36 09.5
SEP 7		
FUR	E(P)	00 58 59.8
SEP 7		
COL	EP	01 43 12.1
SEP 7		
COL	EP	02 54 07.5
SEP 7		
H-06 16 45.7		
35.1N 004.4E		
h ABOUT 17KM		
BOZ	E(P)	06 29 01.0
SEP 7		
H-06 57 25.8		
24.3N 142.6E		
h ABOUT 23KM		
GUA	IP	07 00 05.0
	IS	02 09.0
KIP	IP	07 06 53.1
COL	E(P)	07 07 30.2
HHM	E(P)	07 09 33.8
	E	09 38.3
BUT	EP	07 09 47.9
EUR	EP	07 09 51.8
	I▸P	09 58.6
BOZ	EP	07 09 52.5
	I▸P	10 01.5
SLC	EP	07 09 59.2
	I▸P	10 10.3
BCN	EP	07 10 04.0
GCA	E(P)	07 10 12.8
TUC	EP	07 10 26.5
	E▸P	10 33.5
ALQ	IP	07 10 35.2
	E▸P	10 41.6
SJG	EP'	07 16 39.2
SEP 7		
HON	EP	07 22 32.8
SEP 7		
H-08 28 51.3		
15.6S 167.1E		
h ABOUT 29KM		
COL	IP	08 41 35.0
	I▸P	41 45.1
BCN	E(P)	08 41 48.2
EUR	IP	08 41 49.3
SJG	EP'	08 47 56.5
SEP 7		
HON	EP	08 51 24.8
SEP 7		
H-10 16 56.6		
24.1S 179.9E		
h ABOUT 483KM		
TUC	EP	10 28 50.0
SEP 7		
H-11 14 06.5		
18.5S 177.3W		
h ABOUT 391KM		
KIP	EP	11 21 37.2
CED	EP	11 25 21.1
BCN	EP C	11 25 35.8
	E▸P	27 05.2
EUR	IP	11 25 41.5
	E▸P	27 10.7
TUC	IP C	11 25 42.2
GCA	IP	11 25 51.3
SLC	EP	11 25 58.3
BOZ	IP	11 26 11.0
COL	IP	11 26 04.1
	I▸P	27 35.5
SEP 7		
KIP	EP	11 36 37.3
SEP 7		
H-12 57 55.0		
61.7N 147.5W		
h ABOUT 33KM		
COL	EP	12 58 43.9
EUR	EP	13 03 57.1
SEP 7		
H-15 29 54.3		
04.9N 127.5E		
h ABOUT 95KM		
COL	E(P)	15 42 13.0
SEP 7		
GUA	E(P)	15 38 09.0
	ES	40 31.0
SEP 7		
H-15 39 55.7		
17.9N 144.6E		
h ABOUT 208KM		
COL	EP	15 50 13.0
EUR	IP	15 52 12.1
SEP 7		
SJG	EP	15 57 46.3
SEP 7		
H-16 30 27.4		
04.4S 080.5W		
h ABOUT 227KM		
SJG	EP	16 35 45.1
SEP 7		
FGU	E(P)	18 59 46.5
SEP 7		
EUR	E(P)	19 46 16.5
SEP 7		
EUR	E(P)	21 14 46.7
SEP 7		
FGU	E(P)	22 58 58.6
	E(S)	59 20.0
SEP 7		
ALQ	I(P)	23 14 26.5
EUR	IP	23 15 43.0
SEP 8		
H-00 37 08.3		
19.1N 107.8W		
h ABOUT 33KM		
EUR	IP	00 41 55.0
SEP 8		
H-01 16 22.1		
18.8N 108.1W		
h ABOUT 30KM		
FUR	EP	01 21 12.6
	I▸P	21 21.2
SEP 8		
H-02 26 22.0		
18.8N 108.1W		
h ABOUT 33KM		
EUR	E(P)	02 31 13.3
BUT	E(P)	02 31 58.5
	E(S)	36 54.0
SEP 8		
H-03 26 20.8		
57.5N 152.2W		
h ABOUT 25KM		
COL	E(P)	03 28 11.1
	I	28 12.2
	IS	30 08.0
SIT	E(P)	03 28 29.0
HHM	IP D	03 31 39.7
	E(SCP)	38 30.7
BOZ	IP	03 32 06.0
	I	32 10.6
	I	32 25.0
	E	33 30.0
	ES	36 52.0

Date and Station	Phase (GCT)
	h m s
EUR IP	03 32 25.5
EPP	33 13.5
IPCP	35 29.8
I▸PCP	35 39.5
ISCP	35 09.7
SLC EP	03 32 36.1
FGU I(P)	03 32 40.3
BCN EP D	03 32 55.0
EPCP	35 38.5
CED EP	03 32 56.4
GCA EP	03 33 01.5
HON E(P)	03 33 10.7
EPCP	35 21.1
FSCP	39 20.7
EL	03 41 39.0
KIP EP	03 33 22.5
E	34 45.3
TUC IP D	03 33 36.7
ESCP	39 32.0
ALQ IP	03 33 37.4
EPCP	35 52.0
SJG EP	03 37 47.2
SEP 8	
GUA E(P)	03 56 15.0
E(S)	59 05.0
SEP 8	
KIP EP	04 10 21.9
SEP 8	
H-04 10 34.8	
11.1S 73.8W	
h ABOUT 99KM	
EUR E(P)	04 20 59.6
SEP 8	
H-04 39 13.7	
19.2N 108.2W	
h ABOUT 33KM	
TUC E(P)	04 42 23.6
ALQ IP	04 43 00.4
EUR IP	04 44 01.0
BOZ EP	04 44 49.0
COL E(P)	04 48 25.5
SEP 8	
H-05 24 14.6	
19.3N 108.1W	
h ABOUT 33KM	
ALQ I(P)	05 27 59.8
EUR EP	05 29 01.0

Date and Station	Phase (GCT)
	h m s
SEP 8	
H-05 35 44.6	
32.9N 048.4E	
h ABOUT 50KM	
COL EP	05 47 57.0
E▸P	48 12.3
SEP 8	
H-07 01 33.3	
19.2N 145.3E	
h ABOUT 152KM	
GUA IP	07 02 56.0
IS	04 00.0
KIP EP	07 10 35.2
COL IP	07 11 44.2
HHM IP	07 13 41.7
EUR IP	07 13 51.0
IPCP	13 57.3
BOZ IP	07 13 54.5
BCN EP D	07 14 02.0
E	14 07.8
SLC IP	07 14 03.4
FGU IP	07 14 05.8
GCA IP	07 14 11.4
TUC EP	07 14 22.7
ALQ IP	07 14 32.5
SEP 8	
SJG EP	07 23 42.5
E	24 35.2
SEP 8	
TUC E(P)	07 59 48.2
EL	08 00 37.5
SEP 8	
SJG IP	08 46 52.5
IL	47 12.8
SEP 8	
COL FP	09 01 20.3
SEP 8	
H-09 57 07.8	
52.5N 173.6E	
h ABOUT 30KM	
COL EP	10 02 13.0
BOZ EP	10 05 40.5
EUR EP	10 05 51.2
I▸P	06 00.6
E	07 26.4
SEP 8	
BUT EP	10 58 48.5
E	59 01.5
SEP 8	
COL EP	11 14 15.0

Date and Station	Phase (GCT)
	h m s
SEP 8	
H-11 16 32.0	
55.8N 155.3W	
h ABOUT 14KM	
COL E(P)	11 18 52.6
I	18 54.4
E(S)	20 56.0
EL	21 52.0
HHM EP	11 22 07.2
EL	27 32.7
ISCP	29 12.7
BOZ EP	11 22 33.9
IPCP	25 46.0
ES	27 26.0
EUR IP	11 22 46.9
I	22 52.9
I	23 06.2
EPP	23 45.5
E(PCP)	25 52.4
ISCP	29 25.8
FGU I(P)	11 23 05.0
ESCP	29 28.7
CED EP	11 23 13.9
BCN EP	11 23 16.0
EPCP	25 55.0
ESCP	29 37.2
GCA EP	11 23 24.9
KIP FPP	11 24 28.7
HON E(S)	11 29 00.0
EL	32 20.0
TUC EP	11 23 58.0
E	24 05.8
ESCP	29 57.0
ALQ IP	11 24 00.0
SJG EP	11 28 13.5
SEP 8	
GUA EP	11 34 32.0
ES	42 07.0
SEP 8	
H-11 45 42.1	
27.2S 176.7W	
h ABOUT 70KM	
KIP EP	11 54 41.4
BCN EP	11 58 15.5
E	58 28.4
E	59 06.8
TUC IP D	11 58 18.0
E	58 30.6
EUR IP	11 58 21.9
ALQ IP	11 58 38.5
BOZ EP	11 58 51.4
COL EP	11 58 54.0

Date and Station	Phase (GCT)
	h m s
SEP 8	
SJG EP	12 01 29.5
ES	01 50.5
SEP 8	
H-13 27 31.4	
05.6S 104.4W	
h ABOUT 33KM	
BCN EP	13 35 25.5
E	35 32.5
EUR EP	13 35 55.5
SEP 8	
H-14 13 11.8	
15.4S 166.6E	
h ABOUT 6KM	
COL EP	14 25 58.0
BCN EP	14 26 14.6
EUR IP	14 26 15.0
EPP	29 51.0
SJG EP'	14 32 22.5
SEP 8	
H-14 29 25.2	
28.8S 179.1W	
h ABOUT 137KM	
TUC E(P)	14 42 06.9
EUR EP	14 42 08.0
SEP 8	
H-18 34 49.7	
19.2N 108.3W	
h ABOUT 33KM	
BCN EP	18 38 57.6
EUR IP	18 39 37.0
SEP 8	
EUR EP	18 48 03.1
SEP 8	
BOZ E(P)	21 01 35.0
E	01 42.0
SEP 8	
BUT IP	21 52 40.0
SEP 8	
EUR IP	21 54 00.8
IL	54 16.6
SEP 8	
EUR EP	22 40 04.9
SEP 9	
BHP IP	01 55 32.0
IS	56 05.5
SEP 9	
H-02 16 19.3	
64.2N 146.7W	
h ABOUT 24KM	
COL IP	02 16 35.1

Date and Station	Phase (GCT)
	h m s
EUR E(P)	02 22 36.5
SEP 9	
H-04 39 45.0	
43.5N 144.2E	
h ABOUT 42KM	
COL EP	04 47 37.1
HHM EP	04 50 26.1
BUT EP	04 50 40.0
BOZ IP	04 50 50.5
EUR IP	04 50 55.2
SLC EP	04 51 06.2
FGU E(P)	04 51 08.0
CED EP	04 51 13.0
TUC E(P)	04 51 43.0
ALQ IP	04 51 46.6
SEP 9	
BUT EP	06 54 01.0
IL	54 14.0
SEP 9	
H-07 38 26.4	
60.1N 153.2W	
h ABOUT 104KM	
COL EP	07 39 46.0
BOZ EP	07 44 13.0
SEP 9	
BOZ EP	08 32 36.1
EUR EP	08 32 47.9
SEP 9	
SJG EP	08 49 15.8
SEP 9	
ALQ IP	09 47 06.8
SEP 9	
H-10 02 25.1	
6.5N 084.4W	
h ABOUT 22KM	
BHP IP D	10 03 45.2
SJG EP C	10 07 10.8
ES	11 11.1
WSC EP	10 09 03.0
WAS E(P)	10 09 15.0
EL	17 42.0
ALQ IP	10 09 16.0
IS	14 58.0
PHI EP	10 09 20.1
IS	14 51.0
TUC EP	10 09 22.8
ES	15 00.0
FGU IP	10 10 02.5
BCN EP C	10 10 04.2
IpP	10 10.7
IPCP	11 54.0
CED EP	10 10 10.0
SLC IP	10 10 17.5
IpP	10 22.3
EUR IP D	10 10 28.4
IpP	10 33.5
E(PP)	12 20.5
E(S)	17 19.0
BOZ EP	10 10 44.5
ES	17 36.5
BUT EP	10 10 50.0
IS	17 38.0
UKI E(P)	10 11 07.0
HHM EP	10 11 09.0
IS	18 20.5
SIT E(P)	10 13 03.0
HON E(P)	10 13 52.0
ES	23 30.0
KIP IP	10 13 52.9
ES	23 42.0
COL EP	10 13 55.0
ES	23 28.0
SEP 9	
SJG EP	11 48 05.0
SEP 9	
EUR E(P)	11 51 31.0
SEP 9	
H-12 43 37.7	
09.6N 085.3W	
h ABOUT 33KM	
ALQ IP	12 50 01.8
EUR EP	12 51 16.0
SEP 9	
COL EP	14 55 47.0
SEP 9	
H-15 26 50.2	
05.8N 084.3W	
h ABOUT 33KM	
BHP EP	15 28 13.5
IS	29 23.5
SJG EP	15 31 39.2
ALQ IP	15 33 45.0
EUR E(P)	15 34 57.7
IpP	35 08.1
BOZ EP	15 35 14.5
SEP 9	
ALQ IP	17 20 06.6
I	20 46.0
GCA E(P)	17 21 26.6
SEP 9	
SJG EP	17 21 02.0
SEP 9	
H-17 40 53.5	
47.0N 146.1E	
h ABOUT 600KM	
COL EP	17 47 32.0
BOZ EP	17 50 39.5
EUR EP	17 50 49.0
SEP 9	
COL EP	20 29 06.0
SEP 9	
CED EP	21 29 50.9
SEP 9	
SLC EP	23 13 51.9
SEP 9	
H-23 31 21.6	
36.4N 070.7E	
h ABOUT 212KM	
COL IP	23 42 38.8
E(pP)	43 29.6
SEP 10	
BOZ EP	00 13 54.0
ES	14 13.0
SEP 10	
ALQ IP	01 06 06.2
SEP 10	
COL IP	01 17 04.7
I(S)	18 02.6
SEP 10	
H-01 24 18.7	
21.1S 178.7W	
h ABOUT 559KM	
COL IP	01 36 13.6
EUR E(P)	01 36 52.0
SEP 10	
H-02 53 26.1	
14.0N 120.9E	
h ABOUT 149KM	
COL IP	03 05 10.4
SEP 10	
EUR IP	02 58 46.5
SEP 10	
COL EP	03 26 36.0
SEP 10	
H-05 07 22.0	
15.4S 172.6W	
h ABOUT 38KM	
EUR E(P)	05 19 08.0
COL IP	05 19 40.5
SEP 10	
BCN EP	06 10 51.3
SEP 10	
BCN EP	07 11 52.0
SEP 10	
BHP IP	07 17 29.4
IS	18 09.6
SEP 10	
H-07 19 28.4	
15.9S 167.2E	
h ABOUT 38KM	
COL EP	07 32 10.0
I	32 20.7
EUR IP	07 32 24.8
I	32 43.8
BCN EP	07 32 25.4
E	32 43.8
TUC E(P)	07 32 34.0
E	32 52.0
SEP 10	
H-07 25 22.6	
20.8S 178.7W	
h ABOUT 608KM	
COL EP	07 37 11.0
SEP 10	
BHP IP	07 39 41.0
SEP 10	
TUC E(P)	08 05 54.6
SEP 10	
BCN EP	08 19 27.0
SEP 10	
H-08 44 10.1	
18.9S 169.4E	
h ABOUT 233KM	
COL IP	08 56 41.3
BCN EP	08 56 45.1
EUR EP	08 56 47.5
TUC EP	08 56 53.0
SEP 10	
H-09 31 08.6	
15.7S 166.3E	
h ABOUT 15KM	
COL EP	09 43 56.0
EUR IP	09 44 13.5
SEP 10	
BHP IP	10 03 45.2

Date and Station	Phase (GCT)
	h m s
SEP 10	
H-12 29 53.0	
10.0N 070.8W	
h ABOUT 44KM	
SJG EP	12 32 04.0
ALQ IP	12 37 34.0
IPCP	39 32.5
TUC E(P)	12 37 51.0
BCN E(P)	12 38 31.4
EUR IP	12 38 43.5
EPCP	40 03.5
BOZ EP	12 38 44.5
COL IP	12 41 34.4
SEP 10	
COL EP	13 39 52.0
SEP 10	
H-14 55 14.9	
34.4N 117.6W	
h ABOUT 8KM	
CED IP	14 55 20.5
BCN EP	14 56 05.4
I	56 08.5
IS	56 37.0
EUR EP	14 56 36.8
I	56 53.6
EL	58 07.2
TUC ES	14 58 26.5
SEP 10	
H-15 01 55.6	
42.9N 143.4E	
h ABOUT 114KM	
COL IP	15 09 48.3
HHM EP	15 12 35.4
BOZ IP	15 12 54.4
E▸P	13 23.2
EUR IP	15 13 03.1
BCN EP	15 13 21.6
I▸P	13 50.7
I▸P	13 03.0
TUC E(P)	15 13 49.0
SEP 10	
H-15 39 29.9	
20.6S 178.7W	
h ABOUT 605KM	
BCN EP	15 50 53.0
EUR IP	15 50 56.4
COL IP	15 51 18.0
SEP 10	
COL IP	16 22 19.1

Date and Station	Phase (GCT)
	h m s
SEP 10	
H-17 12 00.0	
37.1N 116.0W	
h ABOUT 0KM	
BCN IP C	17 12 27.0
EUR EP	17 12 40.0
CED IP	17 12 48.5
GCA IP	17 12 57.3
SLC IP	17 13 18.1
I	13 34.4
I	14 43.5
FGU IP	17 13 34.7
TUC IP	17 13 36.5
E(L)	15 18.0
ALQ IP	17 13 58.6
E	14 31.0
BUT EP	17 14 19.0
E	16 42.5
BOZ E(P)	17 14 21.0
I	14 46.0
HHM EP	17 14 46.9
COL IP	17 18 43.2
SEP 10	
HHM E(P)	17 13 04.4
BOZ E(P)	17 13 23.0
SEP 10	
BCN EP	17 39 36.5
IL	39 59.3
EUR EP	17 39 55.5
IL	40 26.5
GCA EP	17 40 16.2
SEP 10	
EUR EP	17 46 26.0
CED EP	17 46 35.0
GCA EP	17 46 44.6
I	46 52.3
SLC EP	17 47 05.7
I	47 21.8
TUC E(P)	17 47 21.5
E	48 52.1
BOZ E(P)	17 47 29.0
E	48 08.0
ALQ IP	17 47 48.8
SEP 10	
H-17 57 13.5	
43.9N 127.8W	
h ABOUT 19KM	
EUR IP	17 59 39.3

Date and Station	Phase (GCT)
	h m s
HHM EP	17 59 47.4
BOZ E(P)	18 00 02.0
BCN EP	18 00 19.1
E▸P	00 27.2
GCA E(P)	18 00 41.8
TUC E(P)	18 01 20.7
ALQ IP	18 01 33.8
SEP 10	
H-17 57 17.0	
63.3N 154.4W	
h ABOUT 33KM	
COL IP	17 58 07.9
EUR EP	18 03 50.8
SEP 10	
SJG I	18 05 38.6
SEP 10	
H-19 25 52.0	
37.4N 141.1E	
h ABOUT 68KM	
GUA E(P)	19 31 11.0
E(S)	35 19.0
COL IP	19 34 33.0
HHM EP	19 37 08.4
BOZ IP	19 37 26.0
I▸P	37 44.5
EUR IP	19 37 33.0
I▸P	37 51.5
SLC EP	19 37 41.7
BCN EP	19 37 49.5
E▸P	38 07.4
GCA EP	19 37 57.0
TUC E(P)	19 38 14.1
ALQ IP	19 38 19.6
E▸P	38 38.5
SEP 10	
COL EP	19 59 20.0
SEP 10	
EUR IP	20 34 46.1
SEP 10	
COL IP	21 20 45.0
SEP 10	
H-21 28 34.9	
37.8N 122.0W	
h ABOUT 24KM	
UKI E(P)	21 29 00.0
EUR IP	21 29 46.2

Date and Station	Phase (GCT)
	h m s
BCN EP	21 30 05.5
IL	31 56.0
SLC E(P)	21 30 38.1
EL	32 57.8
GCA E(P)	21 30 44.0
TUC E(P)	21 31 08.0
E(L)	34 12.0
TUC EP	21 31 08.7
BOZ EP	21 31 15.5
EL	34 15.5
BUT E(P)	21 31 19.0
HHM E(P)	21 31 28.4
ALQ E(P)	21 31 49.0
SEP 10	
GCA E(P)	21 48 25.7
SEP 10	
EUR IP	22 04 34.6
SEP 10	
H-22 57 43.8	
18.5N 100.6W	
h ABOUT 94KM	
TUC E(P)	23 01 30.0
E(L)	06 12.0
ALQ IP	23 01 40.8
GCA EP	23 02 20.3
BCN E(P)	23 02 40.5
E	02 57.0
FGU IP	23 02 43.3
EUR EP	23 03 00.0
BOZ EP	23 03 33.0
SJG IP	23 04 12.3
COL EP	23 07 13.0
SEP 11	
BUT E(P)	00 14 23.0
IL	14 46.0
SEP 11	
BUT E(P)	00 39 31.0
IL	39 53.5
SEP 11	
ALQ IP	01 21 31.4
I	21 56.5
SEP 11	
BOZ IP	03 01 12.5
IL	01 24.0
BUT EP	03 01 24.8
EL	01 47.8

Date and Station	Phase	Phase (GCT) h m s
SEP 11		
H-04 37 00.4		
64.7N 133.9W		
h ABOUT 33KM		
COL	IP	04 38 27.9
BOZ	EP	04 42 02.5
SEP 11		
ALQ	EP	04 48 58.8
EUR	EP	04 49 31.0
SEP 11		
H-05 21 25.8		
33.9N 139.2E		
h ABOUT 33KM		
COL	IP	05 30 39.2
BOZ	EP	05 33 23.5
EUR	EP	05 33 29.8
SEP 11		
COL	IP	05 51 10.1
SEP 11		
H-06 16 26.8		
36.6N 070.6E		
h ABOUT 234KM		
COL	E(P)	06 27 41.2
SEP 11		
COL	EP	06 26 36.8
SEP 11		
H-06 52 59.5		
5.4S 153.0E		
h ABOUT 50KM		
GUA	IP	06 57 36.0
	E(S)	07 01 56.0
HON	E(P)	07 02 25.0
	ES	10 10.0
	EL	15 36.0
KIP	EP	07 02 26.9
	ES	10 11.0
	EL	15 43.0
COL	IP D	07 05 15.8
	IPP	05 31.5
	ES	15 34.0
	EPKKP	23 41.2
	EP'P'	31 49.0
SIT	E(P)	07 05 29.0
	ES	15 54.0
EUR	IP D	07 06 14.8
	EPP	09 56.5
	EPKKP	23 18.0
	EP'P'	31 25.8
BCN	EP	07 06 19.2
	EPP	10 07.2
	EPKKP	23 15.0
HHM	EP	07 06 22.3
	EP'P'	31 23.8
BOZ	EP	07 06 29.0
	ESKS	16 24.0
	ES	17 09.0
SLC	EP	07 06 29.4
TUC	E(P)	07 06 31.3
	EPP	10 29.6
	E(S)	18 00.0
FGU	EP	07 06 32.5
ALQ	EP	07 06 51.5
CSC	EP'	07 11 51.5
	E	12 10.0
WSC	EP'	07 11 53.0
	E	20 38.0
BHP	IP'	07 12 03.5
SJG	EP'	07 12 17.0
	I	12 25.5
	ISKP	16 00.7
SEP 11		
H-07 13 19.8		
50.0N 129.5W		
h ABOUT 8KM		
BOZ	EP	07 16 24.0
EUR	IP	07 16 44.3
SLC	E(P)	07 17 03.3
FGU	IP	07 17 14.3
BCN	EP	07 17 25.5
COL	IP	07 17 29.1
GCA	EP	07 17 37.7
SEP 11		
BOZ	EP	08 16 47.5
	IL	17 22.0
EUR	E(P)	08 17 40.0
SEP 11		
SJG	I	08 59 35.9
	I	59 42.0
SEP 11		
COL	EP	09 55 11.0
	E	55 24.7
SEP 11		
COL	EP	10 03 42.8
SEP 11		
COL	EP	12 19 31.3
SEP 11		
COL	IP	12 53 52.8
BOZ	EP	12 58 33.5
SEP 11		
H-12 58 14.9		
04.9S 153.5E		
h ABOUT 71KM		
COL	E(P)	13 10 26.7
	I(PP)	10 48.3
SEP 11		
COL	EP	14 15 22.0
SEP 11		
CED	IP	15 59 19.2
EUR	IP	16 00 27.9
SEP 11		
BOZ	E(P)	16 12 12.0
SEP 11		
KIP	E(P)	16 21 12.1
SEP 11		
BHP	EP	16 45 06.0
	IS	45 25.4
SEP 11		
H-16 49 35.7		
57.0N 034.2W		
h ABOUT 33KM		
BOZ	IP	16 58 08.0
COL	IP	16 58 18.0
EUR	IP	16 58 57.2
SEP 11		
H-17 22 43.6		
23.4N 123.8E		
h ABOUT 33KM		
COL	EP	17 33 45.0
SEP 11		
COL	IP	18 23 31.1
	IL	23 56.5
SEP 11		
COL	EP	20 03 02.0
SEP 11		
SJG	I	20 31 35.0
SEP 11		
H-22 15 16.2		
07.0N 071.8W		
h ABOUT 27KM		
SJG	IP	22 18 12.9
	IL	21 55.8
TUC	E(P)	22 23 24.9
EUR	EP	22 24 19.7
SEP 11		
BOZ	EP	22 21 24.0
SEP 12		
H-01 30 00.6		
15.6S 167.1E		
h ABOUT 22KM		
EUR	FP	01 43 00.6
SEP 12		
GUA	IP	01 49 07.6
	ES	49 29.6
SEP 12		
CED	IP	01 59 12.4
EUR	EP	02 00 32.2
SEP 12		
H-03 11 24.0		
21.6N 145.7E		
h ABOUT 68KM		
GUA	E(P)	03 13 20.2
COL	EP	03 21 29.0
HHM	EP	03 23 32.0
EUR	IP	03 23 41.9
BOZ	EP	03 23 46.0
ALQ	IP	03 24 25.0
SEP 12		
COL	EP	03 31 30.0
SEP 12		
BUT	EP	04 23 20.9
SEP 12		
BOZ	EP	04 52 37.0
	ES	52 53.0
SEP 12		
H-06 00 53.9		
4.9S 152.3E		
h ABOUT 55KM		
COL	E(P)	06 13 09.0
EUR	EP	06 14 09.6
SEP 12		
H-06 03 30.0		
60.7N 147.7W		
h ABOUT 33KM		
COL	IP	06 04 33.4
	IL	05 34.1
BOZ	EP	06 09 01.0
	E	09 09.5
EUR	E(P)	06 09 28.0
SEP 12		
H-06 04 31.5		
18.2S 169.2E		
h ABOUT 313KM		
COL	IP	06 16 52.5
EUR	IP	06 16 58.7
SEP 12		
KIP	IP	06 07 00.3
SEP 12		
H-06 58 33.4		
11.2S 166.4E		
h ABOUT 118KM		

Date and Station	Phase (GCT)
	h m s
COL IP	07 10 46.9
EUR IP	07 11 10.2
I▸P	11 43.1
IPP	14 36.5
BCN EP	07 11 10.7
E▸P	11 42.0
TUC EP	07 11 21.5
E▸P	11 53.0
GCA EP	07 11 24.3
HHM EP	07 11 27.0
BUT EP	07 11 29.4
E▸P	12 01.9
BOZ IP	07 11 32.0
E▸P	12 04.0
SEP 12	
H-08 40 10.6	
6.4S 151.6E	
h ABOUT 29KM	
GUA IP	08 44 53.0
E(S)	48 38.0
HON EP	08 49 52.0
ES	57 41.0
EL	09 06 10.0
KIP EP	08 49 52.9
ES	57 43.0
EL	09 06 12.0
COL IP C	08 52 36.8
I	52 54.1
ES	09 07 59.0
EPKKP	10 55.1
SIT EP	08 52 51.2
ES	09 03 16.0
CED EP	08 53 30.3
EUR IP C	08 53 36.1
I	53 46.8
EPP	57 24.5
E(SKS)	09 04 21.5
ESP	06 15.0
EPKKP	10 27.0
I	10 58.7
EP'P'	18 37.5
BCN EP	08 53 40.7
EPP	57 33.5
EPKKP	09 10 56.0
EP'P'	18 41.0
HHM IP	08 53 44.0
EPP	57 42.0
EP'P'	09 18 34.5
BUT EP	08 53 48.9
EPP	57 48.9
ESKS	09 04 27.7

Date and Station	Phase (GCT)
	h m s
BOZ IP	08 53 51.5
I	53 59.0
EPP	57 51.0
ESKS	09 04 34.0
E(SP)	06 44.0
GCA EP	08 53 53.6
TUC E(P)	08 53 55.0
EPP	57 57.0
ESKS	09 04 36.0
EPKKP	10 16.5
E	10 40.8
EP'P'	18 36.0
E	25 50.0
ALQ IP	08 54 10.6
CSC IP'	08 59 07.2
BHP IP'	08 59 19.0
SEP 12	
H-08 45 45.1	
06.3S 151.6E	
h ABOUT 33KM	
GUA IP	08 50 25.8
COL IP	08 58 11.2
EUR IP	08 59 11.4
SEP 12	
H-09 02 00.7	
06.3S 151.7E	
h ABOUT 45KM	
COL IP	09 14 25.5
EUR EP	09 15 24.8
SEP 12	
H-09 15 38.4	
55.4N 150.9W	
h ABOUT 33KM	
COL EP	09 17 58.0
IS	19 40.9
EUR EP	09 21 28.6
SEP 12	
BHP IP D	12 06 36.3
IS	07 13.5
SEP 12	
COL EP	12 07 16.0
SEP 12	
COL IP	12 09 31.7
SEP 12	
H-13 43 49.5	
18.8N 109.1W	
h ABOUT 33KM	
BCN EP	13 47 57.9
EUR IP	13 48 37.5
SEP 12	
BOZ EP	16 48 38.5
IL	49 12.0

Date and Station	Phase (GCT)
	h m s
SEP 12	
COL EP	17 00 45.0
SEP 12	
COL EP	17 14 39.2
SEP 12	
H-19 11 34.3	
14.0S 172.8E	
h ABOUT 593KM	
COL EP	19 23 03.8
EUR EP	19 23 08.5
SEP 12	
BOZ EP	19 56 35.0
SEP 12	
H-20 21 19.6	
36.4S 097.8W	
h ABOUT 33KM	
TUC E(P)	20 32 25.6
CSC EP	20 32 37.0
ALQ IP	20 32 37.8
FGU EP	20 33 09.0
EUR IP	20 33 12.5
E	33 50.7
E(PP)	36 11.7
BUT E(P)	20 33 35.7
BOZ EP	20 33 41.0
HHM EP	20 33 58.5
E	34 14.0
SEP 12	
BOZ EP	21 04 39.5
SEP 12	
H-21 25 12.2	
53.1N 158.8E	
h ABOUT 73KM	
COL IP	21 31 06.5
EUR IP	21 34 53.2
ALQ EP	21 35 50.0
SEP 12	
H-21 54 42.0	
21.5N 143.2E	
h ABOUT 326KM	
GUA IP	21 56 38.5
COL IP	22 04 27.8
HHM EP	22 06 29.5
EUR IP	22 06 40.5
E▸P	07 56.5
BOZ IP	22 06 42.5
FGU I(P)	22 06 54.0

Date and Station	Phase (GCT)
	h m s
TUC E(P)	22 07 13.0
SEP 12	
H-22 02 34.3	
06.5S 070.8E	
h ABOUT 34KM	
COL EP'	22 21 13.0
IPP	22 21.3
IPKKP	31 48.3
WSC EP'	22 21 54.9
EPP	24 34.5
WAS EP'	22 21 56.0
EPP	24 34.0
ESKP	25 30.0
BOZ EP'	22 21 57.0
I	22 02.5
EPP	25 00.0
HHM EP'	22 21 58.0
EPP	24 34.5
BUT EP'	22 21 58.7
E(PP)	24 46.7
CSC EP'	22 21 59.0
FGU EP'	22 22 05.0
I	22 06.5
UKI EP'	22 22 12.0
SLC IP'	22 22 12.7
EUR IP'	22 22 14.0
IPP	25 34.5
ESKKP	33 37.4
F	36 32.5
GCA IP'	22 22 19.5
BCN IP'	22 22 20.8
IP'	22 25.7
BHP IP'	22 22 21.0
ALQ IP'	22 22 22.0
CED EP'	22 22 22.0
TUC IP'D	22 22 26.0
F	22 35.5
E(PP)	26 20.5
SEP 12	
BUT E(P)	22 26 58.7
EL	26 18.7
SEP 12	
BOZ IP	22 33 20.0
I	33 38.5
SEP 12	
COL IP	22 34 02.0
SEP 12	
EUR EP	22 39 08.4
SEP 12	
ALQ IP	22 51 02.4

Date and Station	Phase	Phase (GCT) h m s
SEP 12		
GUA	IP	23 56 28.5
	ES	56 41.0
SEP 13		
HHM	E(P)	00 11 34.0
	EL	12 34.0
SEP 13		
H-00 45 54.4		
52.1N 171.7W		
h ABOUT 48KM		
COL	E(P)	00 49 58.8
BOZ	EP	00 53 18.5
	EPCP	55 26.5
EUR	IP	00 53 25.8
	EPCP	55 30.7
TUC	EP	00 54 28.0
ALQ	IP	00 54 43.0
SEP 13		
BUT	EP	03 10 35.7
	IL	11 13.7
BOZ	EP	03 10 36.0
	E	10 46.5
	ES	11 25.0
	IL	11 31.5
HHM	EP	03 10 40.0
	EL	11 29.0
EUR	EP	03 11 16.6
	E(S)	12 32.5
SEP 13		
H-04 34 36.5		
65.3N 163.6W		
h ABOUT 33KM		
BRW	EP	04 36 12.9
COL	EP	04 36 15.2
	IL	38 17.5
EUR	EP	04 41 47.2
SEP 13		
H-04 53 58.0		
20.0S 178.2W		
h ABOUT 582KM		
EUR	EP	05 05 24.2
COL	EP	05 05 45.8
	E(PP)	07 53.5
SEP 13		
H-07 14 28.0		
36.4N 071.1E		
h ABOUT 116KM		
COL	EP	07 25 55.8
	E	26 47.0
SEP 13		
H-08 47 06.5		
31.0N 114.4W		
h ABOUT 33KM		
TUC	E(P)	08 47 58.5
CED	E(P)	08 48 01.6
	IL	49 01.6
EUR	EP	08 49 10.8
	EL	51 48.0
BOZ	EP	08 50 41.5
SEP 13		
H-09 58 17.9		
39.8N 104.8W		
h ABOUT 5KM		
FGU	E(P)	09 59 12.0
	I	59 18.9
ALQ	IP	09 59 37.2
	IL	10 00 55.4
GCA	E(P)	09 59 53.8
BOZ	EP	10 00 13.0
	E	00 36.7
	EL	02 18.0
EUR	EP	10 00 27.2
	EL	02 51.8
HHM	E(P)	10 00 50.0
TUC	E	10 00 58.0
	EL	02 59.3
SEP 13		
ALQ	E(P)	11 05 54.0
SEP 13		
H-13 07 48.1		
55.3N 165.7E		
h ABOUT 23KM		
BRW	EP	13 12 49.1
	I	12 57.6
COL	IP C	13 13 07.0
	E(S)	17 20.3
SIT	E(P)	13 14 14.6
KIP	IP	13 15 50.9
	ES	22 19.0
HON	E(S)	13 22 24.0
	EL	27 40.0
HHM	FP	13 16 22.0
UKI	E(P)	13 16 34.5
BUT	EP	13 16 40.8
BOZ	IP C	13 16 46.5
	IPP	16 53.5
	ES	24 00.0
EUR	IP	13 17 01.5
	IPP	17 07.2
	IPP	19 06.5
SLC	EP	13 17 10.1
FGU	I(P)	13 17 14.1
CED	IP	13 17 23.6
	IPP	17 30.6
GCA	IP	13 17 32.3
	IPP	17 38.5
TUC	EP	13 17 59.0
	ES	26 17.0
ALQ	IP	13 18 02.0
CSC	EP	13 19 23.0
SJG	E(P)	13 21 12.0
	IPP	21 18.0
SEP 13		
COL	IP	13 31 24.3
	E	31 30.3
EUR	EP	13 35 18.0
SEP 13		
KIP	E(P)	14 08 36.5
SEP 13		
H-15 44 59.0		
55.5N 165.7E		
h ABOUT 33KM		
COL	IP	15 50 16.2
BOZ	EP	15 53 55.0
EUR	IP	15 54 10.1
SEP 13		
H-15 58 54.3		
45.2N 114.8W		
h ABOUT 33KM		
BUT	E(P)	15 59 21.6
	IL	59 57.6
BOZ	EP	15 59 29.5
	IL	16 00 04.0
BZM	E(P)	15 59 42.6
HHM	E(P)	15 59 48.0
	IL	16 00 48.0
EUR	EP	16 00 19.8
SEP 13		
H-16 04 36.6		
19.1S 177.7W		
h ABOUT 596KM		
EUR	EP	16 15 56.3
COL	EP	16 16 17.7
SEP 13		
H-16 15 44.1		
36.6S 097.5W		
h ABOUT 32KM		
BHP	IP	16 24 22.0
SJG	EP	16 25 58.5
	E(S)	34 24.0
TUC	E(P)	16 26 50.0
	E(S)	36 00.0
CSC	EP	16 27 05.0
	E	27 16.0
GCA	E(P)	16 27 22.8
FGU	FP	16 27 35.0
EUR	IP	16 27 39.5
	I	27 46.5
BOZ	E(P)	16 28 08.0
	ES	38 26.0
SEP 13		
BUT	IP	16 26 43.6
	I	27 03.6
BOZ	EP	16 26 47.0
	IL	27 20.0
HHM	EP	16 26 55.0
	E	28 05.0
SEP 13		
TUC	E(P)	16 56 07.5
	I	56 57.9
SEP 13		
BZM	EP	17 00 04.6
BOZ	IP	17 00 05.0
HHM	EP	17 00 59.0
	E	01 40.0
SEP 13		
EUR	IP	17 14 09.1
SEP 13		
BOZ	EP	18 39 50.0
	IL	40 22.0
HHM	E(P)	18 40 08.0
	FL	41 07.0
SEP 13		
H-19 25 30.8		
20.9S 178.8W		
h ABOUT 597KM		
EUR	EP	19 36 59.8
TUC	EP	19 37 00.7
COL	IP	19 37 21.5
SEP 13		
H-20 06 37.9		
52.6N 174.0E		
h ABOUT 31KM		
COL	EP	20 11 43.0
BOZ	EP	20 15 09.5
	IPP	15 18.0
EUR	IP	20 15 19.9
	IPP	15 28.8
SLC	IP	20 15 30.0
	IPP	15 39.0

Date and Station	Phase (GCT)
	h m s
SEP 13	
BHP IP	20 47 28.4
SEP 13	
H-21 18 34.4	
45.4N 111.8W	
h ABOUT 25KM	
BOZ IP	21 18 41.6
I(S)	18 48.5
BZM EP	21 18 46.4
HHM EP	21 19 26.6
E(S)	20 11.0
EUR E(P)	21 20 21.0
SEP 13	
H-21 31 45.5	
49.0N 155.9E	
h ABOUT 78KM	
COL EP	21 38 16.5
BOZ IP	21 41 39.0
EUR IP	21 41 49.2
E>P	42 08.9
IPCP	42 31.2
TUC E(P)	21 42 41.0
SEP 13	
ALQ IP	22 26 31.5
SEP 14	
BUT E(P)	00 11 11.6
E	11 41.6
BZM E(P)	00 11 28.5
EUR EP	00 12 10.1
SEP 14	
COL EP	00 11 58.0
SEP 14	
H-01 43 36.6	
5.3S 152.9E	
h ABOUT 52KM	
COL EP	01 55 53.1
SEP 14	
TUC E(P)	03 29 33.8
E	30 15.8
SEP 14	
H-04 50 22.7	
12.0S 072.4W	
h ABOUT 60KM	
ALQ IP	05 00 02.6
FGU E(P)	05 00 38.5
EUR EP	05 01 02.5
BOZ EP	05 01 13.3
E	01 25.6
SEP 14	
FGU EP	06 07 04.5

Date and Station	Phase (GCT)
	h m s
SEP 14	
BCN EP	06 58 03.2
EL	58 29.5
SEP 14	
BOZ EP	07 13 06.0
E	13 51.5
SEP 14	
H-07 18 00.5	
10.4S 076.2W	
h ABOUT 189KM	
ALQ IP	07 27 02.0
TUC EP	07 27 05.3
EUR E(P)	07 28 03.0
COL EP	07 30 49.0
SEP 14	
H-07 20 14.3	
25.8S 176.9W	
h ABOUT 92KM	
EUR E(P)	07 32 46.0
SEP 14	
H-07 27 15.7	
16.5S 173.4W	
h ABOUT 90KM	
BCN EP	07 38 56.0
E>P	39 19.6
TUC IP D	07 39 01.5
E>P	39 24.0
EUR IP	07 39 02.2
E>P	39 25.9
GCA IP	07 39 12.2
FGU E(P)	07 39 22.8
ALQ IP	07 39 25.0
HHM EP	07 39 33.3
COL EP	07 39 33.9
I>P	39 59.5
BOZ IP D	07 39 34.0
SEP 14	
FGU EP	08 20 10.8
ES	20 41.8
SEP 14	
H-08 27 18.3	
08.4N 127.0E	
h ABOUT 56KM	
GUA I(P)	08 31 38.0
E(S)	35 02.0
COL EP	08 39 29.4
BOZ EPP	08 45 34.5
EUR E(P)	08 41 24.5
EPP	45 38.0
EPKKP	57 22.2

Date and Station	Phase (GCT)
	h m s
ALQ EP'	08 45 46.0
SLC EP'	08 45 51.0
BHP IP'	08 47 03.0
SJG EP'	08 47 06.5
ESKP	50 46.0
SEP 14	
H-09 00 47.8	
35.4N 140.8E	
h ABOUT 62KM	
COL EP	09 09 43.0
HHM E(P)	09 12 13.8
SEP 14	
H-09 09 23.7	
36.6N 121.4W	
h ABOUT 25KM	
UKI E(P)	09 10 11.8
CED EP	09 10 26.8
EUR EP	09 10 43.1
I	10 58.0
IL	12 03.8
BCN EP	09 10 47.0
F	11 02.5
TUC E(P)	09 11 41.0
E(S)	13 17.5
ALQ E(P)	09 12 23.0
I	13 30.8
SEP 14	
COL EP	12 49 11.0
SEP 14	
H-12 53 12.1	
38.7S 144.2E	
h ABOUT 33KM	
EUR EP'	13 12 03.3
BOZ EP'	13 12 12.0
SEP 14	
H-14 18 13.5	
51.9N 175.4E	
h ABOUT 56KM	
COL EP	14 23 14.0
HHM EP	14 26 14.8
BOZ EP	14 26 37.5
EUR IP	14 26 47.2
BCN E(P)	14 27 20.2
TUC E(P)	14 27 31.9
SEP 14	
CED IP	14 56 08.4
BCN EP	14 56 29.7
IL	56 58.5

Date and Station	Phase (GCT)
	h m s
SEP 14	
EUR EP	16 21 17.2
SEP 14	
H-16 36 46.8	
39.8N 104.8W	
h ABOUT 5KM	
ALQ E(P)	16 38 07.0
BOZ E(P)	16 38 42.0
EL	40 55.0
ALQ IP	16 38 18.5
I	39 24.4
SEP 14	
TUC E(P)	16 43 26.0
SEP 14	
BUT EP	17 39 32.3
SEP 14	
H-18 57 27.8	
36.5N 070.1E	
h ABOUT 233KM	
COL IP	19 08 44.3
SEP 14	
GUA IP	20 53 27.0
ES	53 39.5
SEP 14	
H-21 02 21.8	
22.3N 120.9E	
h ABOUT 40KM	
COL EP	21 13 37.0
SEP 14	
H-21 54 16.8	
08.5N 126.9E	
h ABOUT 66KM	
COL IP	22 06 23.1
SEP 14	
H-22 46 24.1	
39.9N 104.6W	
h ABOUT 5KM	
FGU IP	22 47 24.5
ALQ EP	22 47 45.0
SLC I(P)	22 47 45.8
F	48 06.5
FL	49 12.7
GCA I(P)	22 47 59.5
I	48 19.0
BOZ EP	22 48 20.0
F	48 42.0
IL	50 36.0
EUR IP	22 48 36.0
EL	51 03.1
BCN E(P)	22 48 47.2
I	49 10.0
EL	51 06.4

Date and Station	Phase (GCT)
	h m s
HHM E(P)	22 49 13.8
EL	52 04.8
SEP 14	
H-22 48 20.3	
25.5N 124.8E	
h ABOUT 128KM	
GUA E(P)	22 53 08.0
COL IP	22 58 54.2
HHM IP D	23 01 07.3
BOZ IP D	23 01 20.0
E	03 49.5
EUR IP	23 01 27.0
SEP 14	
TUC E(P)	22 49 08.4
E	50 52.5
SEP 14	
H-23 16 10.4	
39.5N 104.9W	
h ABOUT 5KM	
FGU E(P)	23 17 06.0
E(S)	17 55.4
ALQ IP	23 17 40.0
I	18 45.8
BOZ E(P)	23 18 10.0
EL	20 17.0
EUR E(P)	23 18 18.5
SEP 14	
COL EP	23 17 46.0
SEP 14	
HHM E(P)	23 34 17.3
SEP 14	
H-23 34 38.1	
20.1S 168.9E	
h ABOUT 24KM	
EUR E(P)	23 47 46.0
SEP 15	
H-01 49 29.1	
27.8S 069.8W	
h ABOUT 83KM	
ALQ E(P)	02 00 42.8
EUR E(P)	02 01 30.0
I▸P	01 54.0
SEP 15	
EUR IP	02 46 56.2
SEP 15	
COL IP	02 58 18.9
SEP 15	
TUC E(P)	03 28 13.0
E	29 20.4

Date and Station	Phase (GCT)
	h m s
SEP 15	
H-06 46 46.6	
79.3N 003.1W	
h ABOUT 33KM	
COL E(P)	06 53 32.5
EUR E(P)	06 56 29.0
SEP 15	
H-08 16 54.6	
5.1S 153.6E	
h ABOUT 33KM	
COL E(P)	08 29 11.0
EUR E(P)	08 30 15.0
SEP 15	
COL EP	08 58 18.0
SEP 15	
H-10 07 22.4	
06.4S 154.0E	
h ABOUT 72KM	
COL IP	10 19 38.1
I▸P	20 05.3
EUR IP	10 20 34.2
I▸P	21 01.3
BCN EP	10 20 38.0
E	20 49.2
SEP 15	
CED IP	10 22 04.4
IS	22 20.5
BCN E(P)	10 22 38.2
EL	23 22.5
SEP 15	
EUR IP	12 07 03.0
IL	07 29.9
BCN E(P)	12 07 48.1
EL	08 49.5
SEP 15	
H-12 19 52.3	
40.6N 125.3W	
h ABOUT 33KM	
UKI E(P)	12 20 26.2
EUR IP	12 21 39.2
BOZ EP	12 22 32.0
SEP 15	
H-13 21 57.0	
52.1N 170.6W	
h ABOUT 42KM	
COL EP	13 25 56.0
HHM E(P)	13 28 52.7
BOZ EP	13 29 16.0
EUR IP	13 29 23.2
TUC EP	13 30 26.0

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	13 30 32.6
SEP 15	
H-15 31 56.9	
04.6S 153.7E	
h ABOUT 60KM	
GUA EP	15 36 24.0
COL EP	15 44 07.0
I▸P	44 25.4
BOZ E▸P	15 45 40.0
EUR EP	15 45 07.1
E▸P	45 25.5
SLC IP	15 45 18.0
BCN E▸P	15 45 29.0
SEP 15	
COL IP	16 13 40.1
BOZ EP	16 16 40.5
SEP 15	
BOZ E(P)	18 00 25.0
SEP 15	
TUC E(P)	18 05 40.5
ALQ E(P)	18 05 58.7
EUR E(P)	18 07 01.3
SEP 15	
COL IP	20 08 41.8
SEP 15	
H-21 23 23.3	
51.7N 177.1E	
h ABOUT 40KM	
COL IP	21 28 19.3
BOZ EP	21 31 41.5
EUR EP	21 31 48.4
E(▸P)	32 01.6
SEP 15	
EUR IP	21 24 58.0
SEP 15	
FGU E(P)	22 08 49.5
E(S)	09 08.2
SEP 15	
H-22 17 56.3	
25.0S 179.9E	
h ABOUT 476KM	
TUC E(P)	22 29 54.0
EUR EP	22 29 55.0
COL E(P)	22 30 17.5
SEP 15	
COL EP	22 56 47.0
EUR EP	22 57 11.1
E	58 36.9

Date and Station	Phase (GCT)
	h m s
SEP 15	
BUT E(P)	23 20 47.5
BOZ EP	23 20 52.0
IL	21 25.0
HHM E(P)	23 21 09.7
IL	22 09.7
EUR E(P)	23 21 42.5
ES	23 01.4
SEP 16	
COL IP	00 42 03.8
SEP 16	
H-00 42 05.3	
05.5S 154.3E	
h ABOUT 115KM	
COL IP	00 54 12.2
EUR EP	00 55 09.3
E	55 35.8
SEP 16	
KIP E(P)	01 54 31.0
SEP 16	
EUR E(P)	02 08 08.0
E	02 09 16.6
SEP 16	
COL IP	02 55 20.8
SEP 16	
H-04 10 22.8	
40.4N 125.7W	
h ABOUT 33KM	
UKI EP	04 10 58.8
ES	11 24.0
EUR IP	04 12 12.2
I(S)	13 38.7
IL	14 02.5
CED EP	04 12 32.2
BCN EP	04 12 44.4
SLC IP	04 12 55.9
HHM IP C	04 13 05.7
I	13 13.7
IL	15 31.7
BOZ IP C	04 13 06.5
ES	15 20.0
BUT E(P)	04 13 09.7
ES	16 20.2
GCA IP	04 13 10.8
FGU E(P)	04 13 13.3
TUC IP	04 13 48.8
ES	16 38.0
ALQ IP	04 14 11.0
I	15 29.2

Date and Station	Phase (GCT)
	h m s
COL EP	04 16 09.0
E	18 12.1
EPCP	19 25.8
CSC EP D	04 17 19.0
WAS E(P)	04 17 32.0
WSC EP	04 17 32.0
SJG EP	04 19 56.5
E	20 06.0
SEP 16	
TUC EP	06 04 36.5
E	05 54.0
CED EP	06 04 42.2
EL	05 40.7
SEP 16	
H-06 29 23.1	
45.0N 149.2E	
h ABOUT 33KM	
COL IP D	06 36 50.0
BOZ EP	06 40 01.6
EUR IP	06 40 11.6
BCN E(P)	06 40 22.9
TUC EP	06 40 59.8
ALQ IP	06 41 03.8
SEP 16	
COL IP	08 43 49.8
SEP 16	
FGU EP	10 33 14.1
SEP 16	
COL IP	11 26 49.3
SEP 16	
COL EP -	12 19 16.0
SEP 16	
COL EP	12 23 47.3
SEP 16	
H-12 50 03.5	
20.8S 069.3W	
h ABOUT 118KM	
ALQ E(P)	13 00 38.5
SEP 16	
H-13 25 59.8	
50.4N 150.6E	
h ABOUT 439KM	
BRW E(P)	13 31 44.2
COL IP	13 32 09.8
I	33 49.0
HHM IP	13 35 09.7
BOZ IP	13 35 30.5

Date and Station	Phase (GCT)
	h m s
EUR IP	13 35 43.6
I•P	37 16.2
BCN EP	13 36 03.0
TUC EP	13 36 33.0
ALQ IP	13 36 35.6
SEP 16	
COL IP	13 37 36.0
SEP 16	
H-13 50 12.4	
07.1N 126.6E	
h ABOUT 183KM	
GUA IP	13 54 24.0
IS	57 56.0
KIP IP	14 01 30.5
BRW EP	14 01 58.0
COL IP	14 02 11.1
ESKPP'	31 50.0
HHM EP	14 03 53.7
EUR EP	14 04 05.7
E•P	04 54.1
E	07 13.0
EPP	08 36.6
BOZ EP	14 04 07.0
EPP	08 30.0
BCN E(P)	14 04 26.7
EP'	08 20.8
EPP	08 45.0
TUC EP'	14 08 30.3
ALQ IP'	14 08 34.3
I	09 16.0
SJG EP'	14 09 47.4
I	09 57.5
SEP 16	
BHP IP	14 09 44.0
IS	09 57.0
SEP 16	
COL EP	13 50 45.0
SEP 16	
EUR IP	14 19 58.0
SEP 16	
EUR E(P)	15 00 12.5
SEP 16	
H-15 03 18.3	
57.6N 152.0W	
h ABOUT 33KM	
COL EP	15 05 08.0
BOZ EP	15 09 02.0
EUR E(P)	15 09 21.0

Date and Station	Phase (GCT)
	h m s
SEP 16	
H-16 20 22.8	
20.9S 178.7W	
h ABOUT 560KM	
TUC EP	16 31 55.0
EUR E(P)	16 31 55.1
COL IP	16 32 15.9
E(•P)	34 29.5
BOZ IP	16 32 24.0
SEP 16	
BOZ EP	16 24 36.5
IS	25 06.0
BUT EP	16 24 35.9
E(S)	25 00.4
BZM EP	16 24 47.0
EL	25 24.5
HHM E(P)	16 24 48.1
E	25 10.6
EL	26 04.6
EUR IP	16 25 11.5
E(S)	26 20.4
SEP 16	
EUR EP	18 11 06.8
SEP 16	
EUR EP	18 44 18.2
SEP 16	
EUR EP	19 05 12.8
SEP 16	
BCN EP	19 47 43.9
SEP 16	
H-19 51 09.7	
37.3N 074.4W	
h ABOUT 0KM	
WAS EP	19 51 54.0
WSC EP	19 51 54.6
CSC I(P)	19 52 39.0
ES	53 52.5
SJG E(P)	19 55 55.2
ET	20 13 33.0
IT	15 45.0
ET	23 15.0
IT	24 03.8
ALQ IP	19 56 46.0
FGU I(P)	19 56 51.0
BOZ IP	19 57 13.0
TUC EP	19 57 23.0
HHM EP	19 57 28.1
EUR IP	19 57 44.2
E	59 04.3
EPCP	20 00 31.5

Date and Station	Phase (GCT)
	h m s
COL IP	20 00 07.1
SEP 16	
H-21 02 40.8	
15.3S 168.4E	
h ABOUT 25KM	
COL EP	21 15 20.0
E•P	15 28.2
BCN EP	21 15 33.4
E•P	15 41.5
EUR IP	21 15 35.1
I•P	15 42.6
TUC E(P)	21 15 41.9
SEP 16	
BHP IP	22 00 57.0
IS	01 22.0
SEP 16	
EUR IP	23 14 08.0
SEP 16	
TUC E(P)	23 26 08.0
BCN E(P)	23 26 18.5
I	26 55.0
IL	27 53.5
GCA E(P)	23 27 18.5
EUR E(P)	23 27 24.1
EL	30 43.5
SEP 17	
H-01 13 46.0	
54.3N 162.7W	
h ABOUT 55KM	
COL EP	01 16 51.0
EUR IP	01 20 31.5
SEP 17	
COL IP	01 57 11.5
SEP 17	
H-03 59 57.4	
49.8N 78.1E	
h ABOUT 0KM	
COL IP C	04 10 08.7
HHM EP	04 12 19.1
BOZ IP	04 12 34.1
FGU IP	04 12 52.0
EUR IP C	04 13 02.8
SEP 17	
FGU EP	04 48 05.3
I	48 29.1
EUR EP	04 48 59.8
SEP 17	
EUR E(P)	05 11 32.2

Date and Station	Phase (GCT)
	h m s
SEP 17	
H-08 11 17.2	
6.3S 151.9E	
h ABOUT 23KM	
COL IP	08 23 44.5
FUR E(P)	08 24 47.0
SEP 17	
H-08 19 54.8	
23.3S 179.2E	
h ABOUT 561KM	
EUR EP	08 31 42.7
COL E(P)	08 32 01.4
SEP 17	
EUR E(P)	08 33 53.5
COL EP	08 34 12.0
BOZ EP	08 34 15.0
SEP 17	
H-08 44 47.6	
21.0S 178.9W	
h ABOUT 610KM	
EUR EP	08 56 16.9
COL EP	08 56 38.0
SEP 17	
COL EP	09 38 04.0
SEP 17	
COL EP	09 45 18.0
SEP 17	
BHP IP	11 01 24.0
IS	04 34.0
SEP 17	
FGU E(P)	11 06 17.7
SEP 17	
H-11 13 56.4	
1.5S 077.7W	
h ABOUT 191KM	
SJG IP	11 18 40.4
IS	22 38.0
CSC EP C	11 20 31.5
E	21 06.0
E	21 28.0
ES	25 54.0
PHI E(P)	11 21 11.0
IS	27 28.4
WSC IP	11 21 16.3
I▸P	21 59.2
EPP	22 51.8
ES	26 49.8
WAS IP	11 21 17.0
E(▸P)	21 56.0
E(S)	26 29.0
ALQ IP	11 21 56.2
IS	28 23.9

Date and Station	Phase (GCT)
	h m s
TUC IP D	11 22 01.8
ESCP	27 12.5
ES	28 33.0
GCA IP	11 22 30.0
FGU I(P)	11 22 34.9
I	25 15.8
BCN IP C	11 22 39.2
E▸P	23 22.5
IPP	24 41.5
I(SCP)	27 32.0
CED EP	11 22 44.9
E▸P	23 29.3
SLC IP	11 22 49.6
EUR IP C	11 23 01.0
I▸P	23 46.8
ISCP	27 45.5
ES	30 26.5
BOZ IP D	11 23 14.5
I▸P	23 55.0
ES	30 47.0
E▸S	32 00.0
UKI E(P)	11 23 32.6
HHM IP	11 23 36.1
I▸P	24 20.6
IS	31 28.6
KIP IP	11 25 55.1
HON EP	11 25 57.0
COL IP C	11 26 01.1
I(▸P)	26 51.0
IPP	29 15.7
IS	36 04.0
E▸S	37 29.0
EPKKP	44 20.8
BRW IP	11 26 26.0
E▸P	27 12.3
SEP 17	
EUR E(P)	11 18 35.5
SEP 17	
SEP 17	
H-11 52 13.0	
53.1N 173.9W	
h ABOUT 170KM	
COL EP	11 56 10.0
BOZ IP	11 59 32.5
EUR IP	11 59 42.7
E▸P	12 00 21.4
CED EP	12 00 03.4
TUC EP	12 00 44.0
SEP 17	
EUR EP	11 52 52.7
SEP 17	
EUR EP	12 01 09.1

Date and Station	Phase (GCT)
	h m s
SEP 17	
H-12 07 45.6	
36.1N 141.6E	
h ABOUT 30KM	
COL E(P)	12 16 37.3
BOZ IP	12 19 27.5
EUR EP	12 19 34.4
E▸P	19 43.4
SEP 17	
H-12 47 24.5	
06.9S 154.6E	
h ABOUT 158KM	
COL EP	12 59 32.0
EUR IP	13 00 25.4
E	00 36.4
SEP 17	
H-12 59 18.1	
36.4N 141.3E	
h ABOUT 59KM	
COL EP	13 08 06.7
BOZ EP	13 10 57.0
I	11 05.5
EUR IP	13 11 02.5
I	11 14.7
FGU E(P)	13 11 13.3
ALQ EP	13 11 51.5
SEP 17	
H-13 20 56.7	
36.3N 141.4E	
h ABOUT 35KM	
GUA I(P)	13 26 03.0
COL EP	13 29 47.5
HHM E(P)	13 32 21.6
BUT E(P)	13 32 27.7
BOZ EP	13 32 37.6
I▸P	32 46.0
EUR EP	13 32 44.0
I▸P	32 54.0
FGU E(P)	13 32 56.0
BCN E(P)	13 33 08.5
ALQ IP	13 33 31.0
I▸P	33 40.3
TUC E▸P	13 33 35.4
SEP 17	
H-13 27 14.4	
21.4S 178.1W	
h ABOUT 411KM	
EUR E(P)	13 39 01.0

Date and Station	Phase (GCT)
	h m s
COL EP	13 39 24.0
SEP 17	
H-14 15 32.4	
24.3N 108.7W	
h ABOUT 33KM	
TUC E(P)	14 17 29.1
ALQ IP	14 18 09.3
EUR IP	14 19 23.0
BOZ EP	14 20 20.0
I	20 27.0
COL EP	14 24 14.0
SEP 17	
H-14 22 37.7	
36.3N 141.4E	
h ABOUT 36KM	
GUA EP	14 27 41.0
COL EP	14 31 28.0
HHM EP	14 34 02.6
BUT EP	14 34 12.8
BOZ EP	14 34 19.0
I▸P	34 30.0
EUR IP	14 34 24.2
I(▸P)	34 26.1
ALQ IP	14 35 12.2
SEP 17	
H-14 57 31.3	
36.8N 141.0E	
h ABOUT 72KM	
COL E(P)	15 06 16.0
BOZ EP	15 09 07.0
TUC E(P)	15 09 56.2
SEP 17	
H-15 08 23.1	
37.1N 116.0W	
h ABOUT 0KM	
EUR I(P)	15 09 02.5
CFD E(P)	15 09 12.5
GCA IP	15 09 22.0
SLC E(P)	15 09 44.9
ALQ EP	15 10 11.0
I	10 54.0
SEP 17	
H-15 18 35.2	
36.4N 141.4E	
h ABOUT 32KM	
GUA E(P)	15 23 30.0
COL EP	15 27 26.0

Date and Station	Phase (GCT)
	h m s
BOZ IP	15 30 16.8
I	30 25.2
TUC E(P)	15 31 04.5
ALO IP	15 31 09.5
SEP 17	
EUR EP	15 21 11.3
SEP 17	
EUR IP	15 27 50.2
SEP 17	
H-15 48 55.1	
13.7S 167.2E	
h ABOUT 209KM	
COL EP	16 01 09.0
I▸P	01 57.0
EUR IP	16 01 26.4
E	01 41.4
E▸P	02 18.5
SEP 17	
H-16 21 19.3	
36.3N 141.3E	
h ABOUT 40KM	
GUA IP	16 26 22.0
ES	30 32.0
BRW EP	16 29 48.4
F	30 03.7
F	30 57.2
COL EP	16 30 10.3
IS	37 17.0
HON EP	16 30 43.0
KIP EP	16 30 44.0
SIT EP	16 31 04.0
IS	39 01.0
HHM EP	16 32 42.6
IS	41 59.6
BUT IP	16 32 56.3
IS	42 26.8
EUR IP D	16 33 06.8
I▸P	33 17.5
I	34 22.8
ES	42 51.5
SLC IP	16 33 17.3
CED EP	16 33 19.5
BCN IP D	16 33 23.2
I▸P	33 35.0
E▸P	33 40.6
ALO IP	16 33 51.8
SEP 17	
H-16 59 20.5	
36.3N 141.2E	
h ABOUT 63KM	
COL EP	17 08 09.0

Date and Station	Phase (GCT)
	h m s
EUR EP	17 11 05.7
SEP 17	
H-18 54 26.5	
51.1N 178.6W	
h ABOUT 40KM	
COL IP	18 59 11.2
BOZ EP	19 02 27.4
EUR IP	19 02 32.5
I▸P	02 44.7
SEP 17	
BOZ E(P)	20 09 35.0
SEP 17	
H-20 42 37.7	
36.4N 141.3E	
h ABOUT 41KM	
COL EP	20 51 27.0
BOZ EP	20 54 19.0
E	54 27.5
EUR EP	20 54 24.7
I▸P	54 36.3
SEP 17	
EUR E(P)	22 22 26.8
SEP 17	
COL EP	22 36 03.0
SEP 17	
GUA IP	22 46 49.4
ES	47 08.0
SEP 17	
COL EP	22 48 47.0
SEP 17	
H-22 54 29.3	
12.6S 166.3E	
h ABOUT 60KM	
COL EP	23 06 55.0
E	07 18.8
EUR EP	23 07 18.3
SEP 18	
COL EP	00 02 39.0
SEP 18	
BOZ EP	01 14 58.0
SEP 18	
H-04 13 02.4	
6.9S 147.4E	
h ABOUT 111KM	
EUR E(P)	04 26 36.4
SEP 18	
H-04 20 04.2	
19.9S 067.5W	
h ABOUT 245KM	
EUR E(P)	04 31 17.5
EPCP	31 29.5

Date and Station	Phase (GCT)
	h m s
SEP 18	
ALO IP	04 59 52.2
EUR EP	05 00 27.5
SEP 18	
H-06 41 51.5	
42.7S 075.5W	
h ABOUT 33KM	
ALO IP	06 54 11.5
EUR E(P)	06 54 47.0
SEP 18	
EUR EP	07 20 30.4
SEP 18	
ALO P	07 31 04.2
EUR E(P)	07 31 39.5
SEP 18	
ALO EP	08 15 24.0
SEP 18	
H-08 30 00.8	
10.3N 062.3W	
h ABOUT 41KM	
ALO IP	08 38 31.5
I(PP)	40 20.0
BOZ EP	08 39 26.0
EUR E(P)	08 39 37.5
SEP 18	
BOZ EP	11 10 39.0
RCD E(P)	11 11 50.5
SEP 18	
H-11 45 10.7	
50.6N 157.4E	
h ABOUT 55KM	
COL E(P)	11 51 27.0
E	51 40.0
BOZ IP	11 54 55.0
I▸P	55 10.5
EUR EP	11 55 07.0
I▸P	55 22.0
SEP 18	
EUR EP	12 13 04.3
SEP 18	
BOZ E(P)	13 31 06.0
E	31 15.0
SEP 18	
EUR EP	14 43 55.3
SEP 18	
EUR EP	16 40 10.8
ES	41 04.0
SEP 18	
H-17 24 16.4	
43.4S 082.3W	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
EUR IP	17 37 05.5
I▸P	37 15.7
SEP 18	
H-19 16 27.2	
52.3N 174.3E	
h ABOUT 40KM	
COL EP	19 21 29.0
BOZ EP	19 24 56.5
I▸P	25 08.0
EUR EP	19 25 06.8
E(▸P)	25 19.5
SEP 18	
FGU EP	19 28 21.3
E(S)	28 49.7
GCA EP	19 28 38.3
EUR EP	19 29 01.3
SEP 18	
H-20 46 36.5	
59.4N 145.2W	
h ABOUT 5KM	
SIT EP	20 48 04.0
COL EP	20 48 04.0
IS	49 09.0
EL	49 49.0
HHM EP	20 51 24.8
EL	56 29.6
BUT EP	20 51 50.5
ES	56 07.5
BOZ FP	20 51 55.5
FS	56 18.0
IL	59 00.0
EUR IP	20 52 24.2
E	53 23.0
E(S)	57 05.0
EL	57 56.5
ESCP	59 29.1
EL	21 01 18.5
SLC EP	20 52 30.2
FGU E(P)	20 52 31.8
RCD EP	20 52 41.0
ES	57 24.0
TUC E(P)	20 53 36.6
FS	59 19.0
WSC E(P)	20 55 05.0
WAS EL	21 11 27.0
CSC EP	20 55 17.0
ES	21 02 16.0
PHI EL	21 08 28.4
I	12 53.9

Date and Station	Phase	(GCT)
		h m s
SEP 18		
FGU	EP	21 59 25.8
	ES	59 56.8
EUR	EP	21 59 44.4
	E(S)	22 00 30.0
SEP 18		
H-22 03 15.4		
8.3N 126.9E		
h ABOUT 56KM		
COL	EP	22 15 23.0
HHM	E(P)	22 17 09.6
BOZ	EPP	22 21 43.5
EUR	E(P)	22 17 25.5
	EPP	21 34.7
	EPKKP	33 19.3
SEP 18		
H-22 38 17.3		
8.2N 126.8E		
h ABOUT 101KM		
COL	EP	22 50 20.0
SEP 18		
H-23 33 18.2		
59.6N 144.6W		
h ABOUT 33KM		
COL	EP	23 34 39.0
HHM	E(P)	23 38 01.6
BOZ	EP	23 38 30.5
EUR	E(P)	23 39 01.3
SEP 19		
H-01 08 26.4		
15.0S 173.5W		
h ABOUT 33KM		
EUR	EP	01 20 16.3
ALQ	IP	01 20 38.7
COL	IP	01 20 45.8
BOZ	E(P)	01 20 45.5
SEP 19		
H-01 16 50.4		
20.8S 175.5W		
h ABOUT 74KM		
BOZ	E(P)	01 29 32.0
COL	EP	01 29 35.0
SEP 19		
H-01 26 50.1		
22.3S 174.8W		
h ABOUT 13KM		
GUA	EP	01 36 10.0
TUC	E(P)	01 39 10.5
EUR	EP	01 39 14.0
GCA	EP	01 39 23.0
FGU	E(P)	01 39 32.5
ALQ	IP	01 39 33.0
BOZ	EP	01 39 45.0
COL	IP	01 39 46.7
SEP 19		
EUR	IP	01 34 14.2
SEP 19		
H-01 45 01.7		
1.7S 077.5W		
h ABOUT 213KM		
ALQ	IP	01 53 01.3
BOZ	EP	01 54 19.6
SEP 19		
TUC	E(P)	02 11 04.6
	E	11 57.0
SEP 19		
H-03 52 43.2		
52.9N 035.1W		
h ABOUT 33KM		
BOZ	EP	04 01 23.0
	E	01 26.5
FGU	E(P)	04 01 29.0
COL	EP	04 01 48.0
ALQ	EP	04 01 53.3
EUR	E(P)	04 02 13.4
SEP 19		
EUR	EP	06 41 32.0
COL	EP	06 41 54.0
SEP 19		
COL	EP	07 11 14.0
SEP 19		
COL	EP	07 20 19.0
SEP 19		
H-08 47 42.8		
00.8S 099.8E		
h ABOUT 35KM		
HHM	EP'	09 06 39.4
	E	06 54.6
BOZ	EP'	09 06 46.0
	E	07 03.5
EUR	IP'	09 06 50.7
	ESKP	10 06.3
FGU	ESKP	09 10 08.5
ALQ	EP'	09 06 58.0
CSC	EP'	09 07 21.0
	E	07 35.0
SEP 19		
BCN	EP	09 18 19.2
SEP 19		
H-09 44 46.5		
20.6S 169.8E		
h ABOUT 126KM		
COL	E(P)	09 57 36.2
EUR	EP	09 57 39.6
	EPP	58 13.5
SEP 19		
COL	EP	10 25 02.0
SEP 19		
BOZ	EP	11 16 53.0
SEP 19		
COL	E(P)	12 37 27.7
EUR	EP	12 39 04.5
SEP 19		
COL	EP	12 59 46.0
SEP 19		
H-13 55 40.2		
54.5S 135.6W		
h ABOUT 33KM		
KIP	E(P)	14 07 43.0
TUC	E(P)	14 08 32.5
ALQ	EP	14 08 48.2
EUR	E(P)	14 09 01.3
SEP 19		
H-14 16 50.1		
05.6S 154.3E		
h ABOUT 116KM		
COL	EP	14 28 58.0
	E	29 24.3
EUR	IP	14 29 54.5
SEP 19		
H-14 17 54.5		
15.6S 074.4W		
h ABOUT 69KM		
ALQ	IP	14 27 48.0
TUC	EP	14 27 50.0
EUR	EP	14 28 44.0
BOZ	EP	14 28 58.8
SEP 19		
COL	IP	14 19 19.2
SEP 19		
H-15 42 09.7		
35.9N 120.1W		
h ABOUT 22KM		
CED	IP	15 42 54.2
UKI	E(P)	15 43 13.0
BCN	EP	15 43 14.8
	IL	44 26.0
EUR	IP	15 43 23.0
	IL	44 29.0
SLC	EP	15 44 11.2
	I	44 44.6
	IL	46 24.8
TUC	E(P)	15 44 12.3
	EL	46 34.0
FGU	E(P)	15 44 21.5
	E	44 28.0
ALQ	IP	15 44 54.0
	IS	47 50.0
BOZ	IP	15 45 00.0
	EL	48 07.0
HHM	EP	15 45 22.5
	EL	48 59.5
BUT	EL	15 48 10.6
RCD	E(P)	15 45 48.0
	EL	52 35.0
COL	EP	15 48 50.0
SEP 19		
H-16 03 10.6		
06.3S 151.7E		
h ABOUT 22KM		
GUA	EP	16 07 53.0
COL	EP	16 15 39.0
EUR	IP	16 16 38.2
SEP 19		
CED	EP	16 20 32.9
	IL	20 59.0
BCN	EP	16 20 45.6
	EL	21 20.0
EUR	IP	16 21 00.8
	E(S)	07 00.3
SEP 19		
COL	EP	16 21 56.0
SEP 19		
COL	EP	16 26 04.0
SEP 19		
COL	EP	17 09 25.0
SEP 19		
COL	EP	17 49 03.0
SEP 19		
H-18 00 36.8		
36.0N 071.2E		
h ABOUT 103KM		
COL	EP	18 12 07.5

Date and Station	Phase (GCT)
	h m s
SEP 19	
GUA IP C	18 23 20.4
ES	23 33.0
SEP 19	
TUC IP	18 36 27.6
IL	36 46.8
SEP 19	
COL EP	19 10 49.0
SEP 19	
EUR EP	19 57 11.7
ES	58 10.6
SEP 19	
EUR E(P)	19 59 47.1
SEP 19	
EUR E(P)	20 00 39.0
ES	01 39.1
SEP 19	
EUR IP	21 13 02.8
E(S)	14 02.2
SEP 19	
EUR EP	22 14 35.6
ES	23 15 34.4
SEP 19	
H-23 24 19.9	
9.8N 070.4W	
h ABOUT 33KM	
BOZ EP	23 33 15.0
F	33 33.0
EUR IP	23 33 16.0
E	33 27.5
SEP 20	
COL IP	00 48 37.6
I(S)	50 23.6
SEP 20	
H-01 15 46.0	
37.9N 122.3W	
h ABOUT 17KM	
UKI E(P)	01 16 21.0
EUR IP	01 17 06.0
SEP 20	
BCN E(P)	01 17 43.0
EL	19 16.2
SEP 20	
H-02 44 52.8	
53.7N 170.0W	
h ABOUT 162KM	
COL EP	02 48 28.0
BOZ EP	02 51 54.5
E	52 55.0
EUR IP	02 52 04.0
SEP 20	
H-03 43 35.8	
22.7S 175.1W	
h ABOUT 31KM	

Date and Station	Phase (GCT)
	h m s
BCN EP	03 55 52.8
TUC E(P)	03 55 55.2
EUR IP	03 55 59.9
E	56 13.9
ALQ IP	03 56 18.5
BOZ EP	03 56 29.0
COL IP	03 56 32.8
SEP 20	
H-04 42 05.1	
15.8S 167.4E	
h ABOUT 19KM	
COL EP	04 54 49.0
SEP 20	
EUR EP	04 56 25.4
SEP 20	
COL EP	06 06 43.7
SEP 20	
GUA IP	08 28 21.0
IS	28 37.0
SEP 20	
BOZ EP	08 40 54.0
EUR EP	08 41 48.2
E	42 04.3
SEP 20	
COL E(P)	08 48 33.2
SEP 20	
H-08 54 08.9	
47.3N 157.3E	
h ABOUT 33KM	
COL IP	09 00 50.3
EUR IP	09 04 17.5
SEP 20	
H-09 57 36.0	
08.3N 126.9E	
h ABOUT 90KM	
COL EP	10 09 40.0
EUR EPP	10 16 24.2
SEP 20	
H-10 12 59.8	
44.5N 142.4E	
h ABOUT 191KM	
COL IP	10 20 38.1
BOZ IP	10 23 46.5
EUR IP	10 23 57.2
E(PP)	24 43.2
SEP 20	
H-11 01 53.0	
12.3N 125.3E	
h ABOUT 70KM	

Date and Station	Phase (GCT)
	h m s
COL EP	11 13 43.0
SEP 20	
H-11 31 44.1	
15.5N 094.5W	
h ABOUT 58KM	
ALQ IP	11 36 36.7
TUC EP	11 36 39.2
EUR IP	11 37 54.8
COL EP	11 41 52.0
SEP 20	
COL IP	14 03 58.9
SEP 20	
GUA EP	14 43 04.0
SEP 20	
GUA EP	15 19 18.0
SEP 20	
CED IP	15 45 01.4
IL	45 21.8
SEP 20	
H-15 49 49.4	
45.0S 081.0W	
h ABOUT 33KM	
ALQ E(P)	16 02 11.8
EUR E(P)	16 02 55.0
SEP 20	
EUR E(P)	16 18 06.6
SEP 20	
H-17 03 21.4	
36.1N 141.8E	
h ABOUT 54KM	
GUA EP	17 08 19.0
ES	12 09.0
COL EP	17 12 10.0
HHM E(P)	17 14 45.4
BOZ EP	17 15 00.0
EUR IP	17 15 06.5
ALQ E(P)	17 15 51.7
SEP 20	
EUR E(P)	18 07 35.7
SEP 20	
H-18 10 40.3	
06.3S 075.0W	
h ABOUT 139KM	
SJG IP	18 16 00.0
ALQ IP	18 19 27.8
IPP	20 02.8
TUC EP	18 19 32.6
BCN EP	18 20 09.3

Date and Station	Phase (GCT)
	h m s
EUR EP	18 20 29.6
IPCP	21 15.5
BOZ EP	18 20 42.0
HHM EP	18 21 03.4
EPP	21 35.9
COL IP	18 23 18.9
EPP	23 54.0
SEP 20	
EUR E(P)	20 21 11.9
SEP 20	
H-20 58 03.6	
16.1S 172.6W	
h ABOUT 35KM	
BOZ EP	21 10 25.0
COL IP	21 10 25.8
SEP 20	
GCA E(P)	21 35 30.0
EUR EP	21 35 49.0
I(L)	37 16.0
SEP 20	
BCN IP	22 51 06.5
IS	51 19.0
SEP 20	
H-23 23 22.7	
30.5N 050.1E	
h ABOUT 47KM	
COL EP	23 35 49.0
SEP 21	
H-00 26 23.8	
22.5S 170.4E	
h ABOUT 26KM	
EUR EP	00 39 33.8
SEP 21	
COL EP	01 31 35.0
SEP 21	
H-01 38 30.5	
29.0N 128.1E	
h ABOUT 199KM	
GUA EP	01 43 07.0
ES	46 35.0
BRW E(P)	01 48 05.3
IPP	48 49.7
COL IP D	01 48 27.7
ES	56 37.0
ESS	57 57.0
FP'P'	02 17 23.7
KIP IP	01 49 00.5
SIT IP	01 49 21.0

Date and Station	Phase	(GCT) h m s
HHM	IP	01 50 46.0
	E	51 31.4
	EPP	54 09.4
	ISKS	02 00 51.4
	ES	02 06.4
	EPKKP	08 50.9
	FP'P'	16 51.4
UKI	E(P)	01 50 47.5
	E▸P	51 34.0
BUT	EP	01 50 55.6
	EPP	54 19.7
	ESKS	02 01 05.7
BOZ	IP	01 50 59.9
	I	51 16.5
	ESKS	02 01 11.0
	ES	01 29.0
EUR	IP D	01 51 07.0
	I▸P	51 55.5
	IPP	54 44.6
	ISKS	02 01 21.1
	IS	01 50.0
	EPKKP	08 48.0
	EP'P'	16 53.0
SLC	E(P)	01 51 14.0
	I	51 16.0
CED	EP	01 51 18.1
BCN	IP C	01 51 21.3
	E▸P	52 08.2
	EPP	55 01.5
	EPKKP	02 08 37.5
RCD	EP D	01 51 25.3
	F	51 32.0
	EPP	55 12.0
GCA	IP	01 51 26.8
TUC	EP	01 51 42.5
	EPP	55 35.2
	ESKS	02 02 06.0
ALQ	IP	01 51 47.7
	IPP	55 40.2
	ESKS	02 02 11.5
WSC	EP'	01 56 37.0
	E(S)	02 04 50.0
	EPKKP	07 47.0
WAS	E(PP)	01 57 01.0
	ESP	02 06 02.0
SJG	IP'	01 57 18.6
	EPP	59 43.5
	ISKP	02 00 29.0
SEP 21		
EUR	E(P)	01 56 08.7
CSC	EP	01 56 10.0
SEP 21		
COL	IP	02 02 06.8

Date and Station	Phase	(GCT) h m s
SEP 21		
H-03 26 37.0		
40.6N 049.9W		
h ABOUT 23KM		
PHI	E(P)	03 31 02.0
WAS	EP	03 31 17.0
	ES	34 52.0
WSC	IP	03 31 18.0
	ES	34 52.5
CSC	EP	03 32 05.0
	E(S)	36 42.8
SJG	EP D	03 32 14.0
	E(S)	37 00.0
	ET	58 15.0
	ET	04 08 18.0
RCD	EP	03 34 04.0
BOZ	IP	03 34 47.1
	I▸P	34 54.9
ALQ	IP	03 34 48.5
	I▸P	34 56.6
BUT	IP	03 34 52.6
	EPCP	36 35.6
	EL	45 09.6
HHM	IP	03 34 53.8
	I▸P	35 00.9
SLC	EP	03 35 02.1
GCA	EP	03 35 11.8
TUC	EP	03 35 22.0
	E(▸P)	35 30.2
EUR	IP	03 35 27.8
	I▸P	35 34.8
	IPP	37 29.6
	E(S)	42 22.0
BCN	IP	03 35 33.5
	I▸P	35 41.0
	EPCP	36 51.5
CED	EP	03 35 53.0
COL	IP	03 36 23.6
	I▸P	36 31.3
	EL	57 14.0
SEP 21		
SJG	EP	03 41 42.0
SEP 21		
H-05 34 45.4		
01.7S 077.5W		
h ABOUT 245KM		
ALQ	IP	05 42 41.8
TUC	EP	05 42 47.7
SEP 21		
COL	EP	06 57 32.8

Date and Station	Phase	(GCT) h m s
SEP 21		
EUR	EP	07 15 22.7
SEP 21		
COL	E(P)	10 09 16.7
SEP 21		
COL	EP	10 33 34.0
SEP 21		
H-11 24 18.0		
34.8N 118.0W		
h ABOUT 17KM		
CED	IP	11 24 33.1
	IS	24 42.8
EUR	E(P)	11 25 37.7
	EL	27 01.5
SEP 21		
COL	EP	12 55 47.0
SEP 21		
TUC	E(P)	14 11 18.8
	E	12 05.6
SEP 21		
H-15 46 00.4		
27.4N 055.3E		
h ABOUT 19KM		
COL	E(P)	15 58 35.7
SEP 21		
EUR	EP	16 16 10.2
	EL	17 08.6
SEP 21		
H-17 02 30.1		
22.4S 174.6W		
h ABOUT 33KM		
TUC	E(P)	17 14 47.0
ALQ	IP	17 15 09.4
COL	EP	17 15 24.0
SEP 21		
BOZ	EP	17 28 21.0
SEP 21		
EUR	E(P)	19 43 34.0
SEP 21		
EUR	E(P)	20 38 09.7
SEP 21		
EUR	EP	20 44 13.0
SEP 21		
COL	EP	21 53 58.0
SEP 21		
EUR	IP	22 05 08.8
	IL	05 16.3
SEP 21		
EUR	E(P)	22 38 19.5
	E	38 41.5

Date and Station	Phase	(GCT) h m s
SEP 21		
EUR	E(P)	22 43 04.2
	F	43 37.3
SEP 21		
SEP 21		
H-23 52 36.9		
45.9N 150.3E		
h ABOUT 104KM		
COL	IP	23 59 46.4
EUR	IP	24 03 10.0
	E(▸P)	03 39.3
ALQ	IP	24 04 03.0
SEP 22		
COL	EP	00 52 53.0
SEP 22		
COL	E(P)	01 46 46.7
SEP 22		
H-04 00 14.0		
06.3S 151.9E		
h ABOUT 33KM		
COL	EP	04 12 40.0
SEP 22		
COL	E(P)	04 15 30.0
SEP 22		
H-04 24 43.2		
20.7N 099.3E		
h ABOUT 11KM		
COL	EP	04 36 57.0
BOZ	EP'	04 43 18.5
EUR	EP'	04 43 22.0
	EPP	44 04.7
	EPKKP	54 16.5
ALQ	EP'	04 43 35.6
TUC	EP'	04 43 37.0
SEP 22		
COL	EP	05 59 52.9
SEP 22		
COL	EP	06 51 48.0
SEP 22		
H-06 57 52.8		
52.0N 175.0E		
h ABOUT 25KM		
COL	IP	07 02 56.4
EUR	IP	07 06 31.7
SEP 22		
H-07 27 33.8		
50.6N 172.8W		
h ABOUT 36KM		
COL	EP	07 31 57.0
HHM	EP	07 34 44.2
	E▸P	34 54.2

Date and Station	Phase (GCT)
	h m s
EUR IP	07 35 19.8
I▸P	35 23.7
EPCP	37 13.7
BCN EP	07 35 35.0
E▸P	35 46.5
TUC E(P)	07 36 13.5
E▸P	36 25.0
ALQ IP	07 36 22.8
I▸P	36 32.5
SEP 22	
H-07 55 20.8	
48.7N 155.1E	
h ABOUT 33KM	
COL EP	08 02 01.0
EUR EP	08 05 33.5
TUC E(P)	08 06 37.0
E	06 53.3
SEP 22	
COL E(P)	08 00 46.7
SEP 22	
COL EP	08 47 06.0
SEP 22	
H-09 35 27.9	
1.3S 134.0E	
h ABOUT 31KM	
GUA IP	09 39 40.0
E(S)	43 13.0
HON IP	09 46 39.1
KIP IP	09 46 40.3
COL IP	09 48 07.2
I▸P	48 17.5
EUR IP	09 49 40.0
EPP	54 00.5
BOZ EP'	09 53 55.0
ALQ EP'	09 54 08.5
SJG EP'	09 55 25.5
SEP 22	
COL I(P)	10 00 19.7
SEP 22	
COL FP	12 32 52.0
SEP 22	
H-12 39 05.0	
30.9S 177.0W	
h ABOUT 33KM	
BCN EP	12 51 56.5
TUC F(P)	12 51 57.6
EUR IP	12 52 03.5
ALQ IP	12 52 18.2

Date and Station	Phase (GCT)
	h m s
COL E(P)	12 52 40.2
SEP 22	
H-12 49 45.0	
32.0N 131.6E	
h ABOUT 33KM	
GUA E(P)	12 54 38.6
ES	58 40.0
COL EP	12 59 34.0
BUT EP	13 02 07.5
BOZ EP	13 02 14.0
EUR IP	13 02 20.9
TUC E(P)	13 02 56.0
ALQ IP	13 03 02.6
H-12 49 54.7	
31.8N 131.5E	
h ABOUT 33KM	
GUA EP	12 54 48.0
COL IP	12 59 43.3
BUT IP	13 02 19.6
BOZ IP	13 02 24.0
EUR IP	13 02 30.7
IPP	05 50.8
BCN EP	13 02 44.5
RCD EP	13 02 50.0
ALQ EP	13 03 12.5
TUC E(P)	13 03 13.0
SEP 22	
EUR EP	12 56 56.3
SEP 22	
HHM EP	13 16 57.7
I	17 07.7
SEP 22	
COL EP	13 32 31.0
SEP 22	
H-14 36 10.3	
18.8N 107.2W	
h ABOUT 33KM	
TUC IP D	14 39 27.9
I	39 35.6
E(S)	42 08.0
ALQ EP	14 39 57.0
CED EP	14 40 20.3
BCN EP	14 40 25.6
EUR IP	14 41 04.1
BOZ IP	14 41 51.0

Date and Station	Phase (GCT)
	h m s
HHM EP	14 42 16.7
COL EP	14 45 27.0
SEP 22	
EUR EP	15 00 47.5
ES	01 21.3
SEP 22	
COL EP	15 32 05.8
SEP 22	
COL EP	16 38 11.0
SEP 22	
BOZ EP	16 41 50.0
SEP 22	
H-17 09 54.2	
9.8S 160.1E	
h ABOUT 26KM	
COL IP	17 22 22.7
EUR IP	17 23 02.0
E▸P	23 10.1
SEP 22	
H-17 12 18.1	
11.2S 162.1E	
h ABOUT 33KM	
COL EP	17 24 48.0
EUR IP	17 25 20.2
BCN EP	17 25 21.5
E	25 29.0
BOZ EP	17 25 40.5
ALQ E(P)	17 25 49.7
SEP 22	
H-17 30 10.5	
18.8N 107.1W	
h ABOUT 33KM	
TUC EP	17 33 26.4
ALQ I(P)	17 34 00.4
EUR IP	17 35 03.2
SEP 22	
EUR IP	19 30 53.6
SEP 22	
BCN EP	19 59 46.0
SEP 22	
H-20 01 49.5	
05.3S 151.4E	
h ABOUT 58KM	
GUA IP	20 06 21.0
ES	10 08.0
HON EP	20 11 24.0
KIP EP	20 11 26.0
COL IP C	20 14 07.7

Date and Station	Phase (GCT)
	h m s
CED EP	20 15 03.3
EUR EP C	20 15 08.7
EPP	19 04.0
EPKKP	32 05.4
BCN IP C	20 15 14.0
E	15 26.5
HHM EP	20 15 15.7
BOZ IP	20 15 24.5
GCA EP	20 15 26.0
TUC E(P)	20 15 28.9
ALQ IP	20 15 46.0
SJG IP'	20 21 08.0
SEP 22	
EUR EP	20 02 08.0
SEP 22	
ALQ E(P)	20 32 02.5
EUR EP	20 32 05.3
SEP 22	
H-20 35 28.6	
7.1N 073.0W	
h ABOUT 129KM	
EUR EP	20 44 13.0
SEP 22	
H-21 47 06.0	
16.1S 167.6E	
h ABOUT 53KM	
COL EP	21 59 46.0
SEP 22	
H-21 49 25.9	
37.4N 118.6W	
h ABOUT 16KM	
EUR IP	21 50 12.4
CED EP	21 50 17.8
BCN EP	21 50 18.0
I	50 25.5
IL	51 07.3
GCA EP	21 50 51.3
TUC E(P)	21 51 28.6
HHM E(P)	21 52 12.3
SEP 22	
H-22 08 01.0	
36.4N 141.3E	
h ABOUT 43KM	
COL EP	22 16 50.0
HON EP	22 17 29.0
KIP E(P)	22 17 39.0
HHM EP	22 19 23.8

Date and Station	Phase	(GCT)
		h m s
BUT	EP	22 19 36.2
	E(S)	29 05.7
BOZ	IP	22 19 41.0
	IS	29 20.0
EUR	IP	22 19 48.0
	ES	29 32.5
CED	EP	22 19 59.7
GCA	EP	22 20 11.3
RCD	EP	22 20 13.0
TUC	EP	22 20 28.9
	ES	30 53.0
ALQ	EP	22 20 32.5
	I	20 35.7
	IS	30 59.0
SEP 22		
TUC	E(P)	22 37 01.0
SEP 22		
TUC	E(P)	23 17 22.0
	E	17 40.0
ALQ	EP	23 18 25.2
EUR	E(P)	23 18 52.5
SEP 22		
H-23 38 01.6		
12.6S 166.6E		
h ABOUT 113KM		
COL	IP	23 50 22.3
	I▸P	50 52.5
EUR	IP	23 50 43.4
	E	50 50.7
	I▸P	51 12.9
	E	54 42.5
TUC	EP	23 50 52.0
	E▸P	51 23.0
ALQ	EP	23 51 11.5
SEP 23		
EUR	E(P)	23 57 36.0
	EL	58 13.1
SEP 23		
BHP	IP	00 48 20.0
	IS	48 32.0
SEP 23		
H-02 24 57.9		
55.0N 164.0E		
h ABOUT 33KM		
COL	IP	02 30 23.9
EUR	IP	02 34 18.0
	EPCP	35 24.9
ALQ	IP	02 35 17.2
SEP 23		
EUR	E(P)	03 36 56.9

Date and Station	Phase	(GCT)
		h m s
SEP 23		
H-03 59 22.8		
52.7N 159.5E		
h ABOUT 33KM		
COL	EP	04 05 21.4
EUR	EP	04 09 06.5
SEP 23		
COL	EP	04 59 02.0
SEP 23		
COL	IP	05 00 53.8
SEP 23		
H-05 10 34.5		
10.2S 123.9E		
h ABOUT 115KM		
EUR	IP'	05 29 17.8
BOZ	EP'	05 29 20.0
ALQ	IP'	05 29 34.0
CSC	EP'	05 30 08.0
SEP 23		
COL	EP	05 27 02.7
SEP 23		
COL	IP	06 25 12.4
	IL	25 27.9
SEP 23		
COL	EP	06 30 20.0
SEP 23		
H-07 17 17.5		
59.8N 152.3W		
h ABOUT 57KM		
COL	IP	07 18 39.5
EUR	EP	07 23 27.4
SEP 23		
EUR	EP	07 20 23.1
SEP 23		
GUA	E(P)	09 14 26.0
SEP 23		
H-09 18 13.2		
41.0S 042.9E		
h ABOUT 33KM		
BOZ	EP'	09 38 12.5
	E	38 43.5
EUR	EP'	09 38 17.5
SEP 23		
GUA	E(P)	09 26 28.0
SEP 23		
H-10 35 58.7		
30.4N 113.7W		
h ABOUT 33KM		
TUC	E(P)	10 36 47.0
	E	37 02.5

Date and Station	Phase	(GCT)
		h m s
CED	E(P)	10 37 12.7
	EL	38 27.2
GCA	E(P)	10 37 48.0
ALQ	EP	10 37 51.0
	IL	40 15.5
EUR	IP	10 38 12.1
	EL	41 06.5
SEP 23		
TUC	E(P)	10 57 04.5
SEP 23		
TUC	E(P)	11 08 42.0
SEP 23		
TUC	E(P)	12 11 54.5
CED	E(P)	12 12 28.2
ALQ	EP	12 12 55.5
	E	13 43.2
EUR	E(P)	12 13 24.0
SEP 23		
H-12 58 29.5		
17.1S 177.2W		
h ABOUT 418KM		
EUR	EP	13 09 56.1
TUC	EP	13 09 57.9
COL	IP	13 10 17.1
SEP 23		
COL	IP	13 24 06.1
SEP 23		
TUC	E(P)	13 33 26.0
SEP 23		
ALQ	I(P)	13 35 13.0
SEP 23		
TUC	E(P)	14 28 15.5
SEP 23		
TUC	E(P)	14 57 22.0
	E(L)	58 38.0
CED	E(P)	14 57 23.3
	EL	58 05.8
SEP 23		
ALQ	IP	14 59 29.0
	I	15 02 00.0
EUR	IP	14 59 55.0
	E(L)	15 03 07.5
SEP 23		
H-15 16 58.8		
36.8S 091.7W		
h ABOUT 33KM		
SJG	EP	15 27 02.5
EUR	E(P)	15 29 07.2
BOZ	E(P)	15 29 26.0

Date and Station	Phase	(GCT)
		h m s
SEP 23		
H-15 50 34.2		
16.9S 177.1W		
h ABOUT 33KM		
COL	EP	16 03 04.0
ALQ	E(P)	16 03 05.8
BOZ	EP	16 03 13.5
SEP 23		
EUR	EP	16 05 04.5
SEP 23		
TUC	E(P)	15 58 16.8
SEP 23		
H-19 04 10.9		
7.7S 130.7E		
h ABOUT 48KM		
COL	EP	19 17 21.7
EUR	EP'	19 22 45.7
TUC	EP'	19 22 46.2
ALQ	IP'	19 23 02.0
SEP 23		
GCA	EP	19 21 10.5
SEP 23		
BOZ	IP	19 33 39.5
	E	34 25.5
SEP 23		
BOZ	E(P)	20 32 45.5
EUR	IP	20 34 23.0
SEP 23		
COL	IP	22 17 42.9
SEP 23		
SJG	IP	23 21 37.2
	IS	21 59.5
SEP 23		
COL	IP	23 23 43.9
SEP 23		
H-23 21 46.0		
55.8N 035.8W		
h ABOUT 33KM		
BOZ	EP	23 30 14.0
COL	IP	23 30 31.0
ALQ	E(P)	23 30 54.5
EUR	IP	23 31 04.2
SEP 24		
EUR	EP	00 41 27.9
SEP 24		
H-00 48 35.2		
10.9S 161.8E		
h ABOUT 81KM		
COL	E(P)	01 00 52.8

Date and Station	Phase (GCT)
	h m s
EUR IP	01 01 32.0
SEP 24	
EUR EP	01 24 32.1
E	24 46.5
SEP 24	
H-03 05 08.4	
24.7S 175.9W	
h ABOUT 15KM	
TUC E(P)	03 17 40.3
EUR IP	03 17 44.5
COL EP	03 18 17.0
SEP 24	
H-03 09 27.7	
14.2N 106.3W	
h ABOUT 33KM	
ALQ E(P)	03 14 06.5
E(S)	18 02.5
EUR EP	03 15 07.7
E	17 44.7
BOZ EP	03 15 50.5
E	18 14.5
SEP 24	
H-03 18 54.6	
24.5S 176.0W	
h ABOUT 33KM	
EUR E(P)	03 31 27.5
ALQ E(P)	03 31 44.5
SEP 24	
COL EP	03 24 08.0
SEP 24	
H-03 33 45.8	
15.6N 105.5W	
h ABOUT 33KM	
TUC E(P)	03 37 45.8
ALQ EP	03 38 11.5
GCA E(P)	03 38 40.5
EUR IP	03 39 15.0
BOZ EP	03 39 57.0
SEP 24	
H-03 57 20.2	
14.4N 105.3W	
h ABOUT 33KM	
ALQ IP	04 01 58.7
BOZ EP	04 03 42.5
SEP 24	
CED E(P)	04 23 40.0
IL	24 18.9
SEP 24	
CED IP	05 44 59.2
IL	45 19.9

Date and Station	Phase (GCT)
	h m s
TUC E(P)	05 45 56.4
SEP 24	
EUR EP	05 46 28.1
SEP 24	
COL EP	06 58 26.0
SEP 24	
H-09 40 40.1	
9.3S 078.9W	
h ABOUT 49KM	
ALQ IP	09 49 41.0
TUC E(P)	09 49 42.3
EUR IP	09 50 41.0
EPP	50 54.3
COL IP	09 53 34.1
I	53 50.5
SEP 24	
SJG EP	13 09 28.0
EL	10 15.0
SEP 24	
COL EP	15 07 31.9
BOZ EP	15 10 52.0
EUR EP	15 11 03.0
E	11 18.9
SEP 24	
CED EP	16 28 07.1
IL	28 26.8
SEP 24	
EUR E(P)	16 47 42.7
E	48 15.4
SEP 24	
H-17 13 52.0	
20.2N 105.7W	
h ABOUT 33KM	
TUC EP	17 16 55.0
E	17 07.0
EL	20 05.0
ALQ IP	17 17 21.5
E	21 29.0
GCA EP	17 17 57.0
EUR EP	17 18 35.8
I	18 40.4
EL	26 16.7
BOZ EP	17 19 21.5
HHM E(P)	17 19 25.6
SJG IP D	17 21 03.0
SEP 24	
EUR EP	17 49 49.7
SEP 24	
BUT IP	18 03 27.3
IS	03 31.3

Date and Station	Phase (GCT)
	h m s
BOZ IP	18 03 41.0
IS	03 56.5
BZM EP	18 03 48.2
HHM EP	18 03 58.1
IL	04 31.6
EUR E(P)	18 04 17.6
SEP 24	
EUR EP	19 03 32.3
SEP 24	
SJG IP	19 17 19.0
SEP 24	
H-20 38 07.1	
05.2N 096.2E	
h ABOUT 33KM	
EUR EP'	20 57 10.1
ALQ IP'	20 57 28.5
I	21 01 54.4
SJG EP'	20 57 41.0
SEP 24	
GCA EP	22 19 53.8
SEP 24	
EUR IP	22 39 53.8
SEP 24	
H-23 53 42.7	
13.1N 145.2E	
h ABOUT 57KM	
GUA IP	23 53 56.0
COL IP	24 04 38.8
HHM EP	24 06 26.6
EUR EP	24 06 30.1
E	06 59.3
EPP	10 03.9
BOZ EP	24 06 37.0
TUC E(P)	24 07 00.7
ALQ I(P)	24 07 16.0
IPP	11 11.0
SEP 25	
H-00 10 59.0	
13.3N 145.3E	
h ABOUT 57KM	
GUA IP	00 11 12.0
COL EP	00 21 54.5
HHM EP	00 23 41.3
EUR EP	00 23 45.6
I	24 18.0
EPP	27 11.5
BOZ EP	00 23 52.0
TUC E(P)	00 24 14.0

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	00 24 27.0
SEP 25	
H-00 42 38.7	
24.6S 175.0W	
h ABOUT 33KM	
EUR E(P)	00 55 09.5
COL E(P)	00 55 41.5
SEP 25	
GUA IP	00 43 46.0
COL E(P)	00 54 29.5
EUR IP	00 56 20.8
SEP 25	
SLC IP	00 57 23.7
ES	57 50.2
SEP 25	
GUA IP	00 57 26.0
IS	57 32.0
SEP 25	
H-01 03 32.7	
13.7N 145.6E	
h ABOUT 33KM	
GUA IP	01 03 46.0
IS	03 56.0
EUR EP	01 16 20.3
SEP 25	
H-01 27 36.6	
31.1S 177.6W	
h ABOUT 33KM	
EUR EP	01 40 37.0
SEP 25	
H-02 01 17.8	
24.5S 175.9W	
h ABOUT 25KM	
TUC EP	02 13 48.5
EUR IP	02 13 51.2
GCA E(P)	02 13 59.0
ALQ IP	02 14 09.5
BOZ IP	02 14 22.0
COL IP	02 14 22.1
SEP 25	
GUA IP	02 21 11.0
IS	21 22.0
SEP 25	
EUR EP	02 33 45.8
SEP 25	
H-02 55 40.1	
36.1S 103.3W	
h ABOUT 33KM	
TUC E(P)	03 06 40.5

Date and Station	Phase	(GCT)
		h m s
EUR	IP	03 07 28.1
SEP 25		
H-03 36 31.8		
18.3S 175.6W		
h ABOUT 279KM		
COL	IP	03 48 39.4
SEP 25		
TUC	E(P)	05 01 20.5
	E	02 04.5
SEP 25		
H-05 13 48.8		
13.9N 145.2E		
h ABOUT 47KM		
GUA	IP	05 14 00.0
COL	EP	05 24 44.2
EUR	EP	05 26 35.0
SEP 25		
HHM	E(P)	06 36 43.6
	EL	37 42.6
EUR	EP	06 37 15.0
SEP 25		
TUC	E(P)	07 21 32.0
	F	22 25.0
SEP 25		
TUC	E(P)	07 27 56.0
SEP 25		
EUR	EP	09 52 47.0
	F(S)	53 53.7
SEP 25		
H-10 11 29.2		
53.9N 035.5W		
h ABOUT 33KM		
BOZ	EP	10 20 04.8
COL	EP	10 20 26.0
ALQ	IP	10 20 39.3
EUR	IP	10 20 52.9
SEP 25		
H-10 29 59.0		
28.0S 178.0W		
h ABOUT 33KM		
TUC	E(P)	10 42 46.6
	E	42 54.5
EUR	IP	10 42 50.1
ALQ	E(P)	10 43 11.0
SEP 25		
TUC	E(P)	10 35 40.5
SEP 25		
H-10 56 00.4		
.9S 021.9W		
h ABOUT 33KM		
ALQ	IP	11 08 39.5
SEP 25		
TUC	E(P)	11 26 49.1
	EL	28 45.0
SEP 25		
ALQ	EP	11 29 45.5
SEP 25		
COL	EP	11 41 10.0
SEP 25		
H-12 00 05.2		
54.2N 036.1W		
h ABOUT 33KM		
BOZ	EP	12 08 37.5
COL	E(P)	12 08 59.8
EUR	EP	12 09 25.6
SEP 25		
H-12 29 08.6		
23.9S 177.6W		
h ABOUT 241KM		
TUC	IP	12 41 18.8
EUR	IP	12 41 20.0
ALQ	IP	12 41 39.2
COL	IP	12 41 47.0
BOZ	EP	12 41 49.2
SEP 25		
TUC	F(P)	13 08 23.5
SEP 25		
H-13 21 13.7		
25.0S 175.0W		
h ABOUT 33KM		
EUR	EP	13 33 44.5
BOZ	EP	13 34 15.0
SEP 25		
COL	IP	13 44 56.2
SEP 25		
H-14 37 13.1		
39.7N 143.3E		
h ABOUT 21KM		
COL	EP	14 45 37.0
	I	45 48.0
HHM	EP	14 48 18.6
BUT	EP	14 48 31.2
	E	49 41.2
BOZ	EP	14 48 36.0
	F	48 44.0
EUR	IP	14 48 43.5
CED	EP	14 48 56.5
TUC	EP	14 49 27.1
ALQ	EP	14 49 28.0
	I	49 32.5
SEP 25		
H-14 42 27.8		
39.6N 143.2E		
h ABOUT 35KM		
COL	EP	14 50 51.0
	I	51 02.3
HHM	EP	14 53 29.6
EUR	EP	14 53 56.9
	E	54 35.9
	EPP	56 46.0
ALQ	IP	14 54 48.7
SEP 25		
CED	IP	14 46 18.9
EUR	EP	14 47 27.8
SEP 25		
TUC	F(P)	14 48 38.5
SEP 25		
BUT	EP	14 53 14.7
	EL	53 38.7
SEP 25		
H-14 53 34.5		
39.7N 143.2E		
h ABOUT 37KM		
COL	IP	15 01 56.3
	I▸P	02 07.1
HHM	EP	15 04 37.1
BUT	EP	15 04 50.7
BOZ	EP	15 04 55.7
EUR	EP	15 05 03.6
	I(▸P)	05 13.2
	IPCP	05 28.9
	E	08 45.3
CED	EP	15 05 16.9
TUC	E(P)	15 05 48.0
	E▸P	05 57.8
ALQ	EP	15 05 51.0
SEP 25		
H-15 48 00.2		
41.6N 074.9E		
h ABOUT 37KM		
COL	IP	15 59 01.0
BOZ	EP	16 01 11.5
EUR	IP	16 01 38.0
SEP 25		
H-15 49 49.1		
09.6S 148.8E		
h ABOUT 37KM		
COL	IP	16 02 33.1
EUR	E(P)	16 03 33.5
SJG	EP'	16 09 22.5
SEP 25		
EUR	EP	16 05 36.0
SEP 25		
ALQ	I(P)	16 06 13.2
	E	08 25.0
SEP 25		
TUC	EP	16 08 03.8
	EL	08 59.0
EUR	E(P)	16 09 26.3
SEP 25		
H-16 27 18.7		
31.7S 090.6W		
h ABOUT 33KM		
TUC	E(P)	16 38 08.8
ALQ	I(P)	16 38 17.5
EUR	E(P)	16 38 55.0
SEP 25		
GUA	IP	16 48 12.0
	IS	48 24.0
SEP 25		
EUR	EP	16 56 24.7
	E	56 57.3
SEP 25		
GUA	IP	16 49 49.0
	IS	50 01.0
SEP 25		
H-16 52 09.7		
13.0N 145.3E		
h ABOUT 40KM		
GUA	IP	16 52 24.0
	I	52 28.0
COL	IP	17 03 08.6
	I▸P	03 22.2
HHM	EP	17 04 54.6
EUR	IP	17 04 59.5
	E	05 04.8
	F(PP)	08 46.2
CED	EP	17 05 00.9
BUT	E(P)	17 05 02.2
BOZ	EP	17 05 06.0
BCN	EP	17 05 09.0
TUC	EP	17 05 28.0
SEP 25		
H-17 43 43.0		
34.7N 116.5W		
h ABOUT 15KM		
CED	IP	17 43 59.1

Date and Station	Phase (GCT)
	h m s
BCN IP D	17 44 14.2
GCA IP	17 44 53.5
FUR IP	17 44 56.0
TUC IP C	17 45 00.8
EL	46 09.0
UKI E(P)	17 45 25.5
SLC IP	17 45 30.2
I	45 57.6
FL	47 27.2
ALQ IP	17 45 43.5
I	46 10.0
BUT E(P)	17 46 34.2
EL	49 21.2
HHM E(P)	17 46 55.6
EL	51 01.6
PHI EL	17 57 35.9
COL EP	17 50 43.4
SJG EP	17 52 23.0
SEP 25	
H-17 48 01.9	
34.7N 116.5W	
h ABOUT 16KM	
CED IP	17 48 18.9
BCN IP D	17 48 33.8
TUC I(P)	17 49 15.1
EUR E(P)	17 49 17.5
COL E(P)	17 55 02.5
F	55 20.9
SEP 25	
GUA IP	17 53 10.0
IS	53 18.0
SEP 25	
TUC E(P)	17 56 40.2
CED EP	17 57 04.5
IL	58 04.4
SEP 25	
CED IP	17 58 55.2
IS	59 06.9
SEP 25	
CED IP	18 03 48.1
IS	03 58.9
SEP 25	
FUR IP	18 05 44.1
SEP 25	
H-18 06 33.4	
34.7N 116.4W	
h ABOUT 16KM	
CED IP	18 06 49.1
IS	07 00.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	18 07 07.4
ES	07 33.2
EUR EP	18 07 52.3
EL	09 02.7
GCA EP	18 08 55.8
SEP 25	
H-20 06 00.0	
20.1N 105.7W	
h ABOUT 33KM	
TUC EP	20 09 05.0
EUR IP	20 10 45.5
SEP 25	
CED IP	20 07 42.7
IS	07 54.1
SEP 25	
H-20 10 07.4	
54.2N 035.3W	
h ABOUT 33KM	
HHM E(P)	20 18 30.6
BOZ EP	20 18 42.5
E	19 04.0
ALQ EP	20 19 14.5
GCA E(P)	20 19 28.0
EUR EP	20 19 31.3
E	19 52.5
I	20 12.2
TUC E(P)	20 19 45.0
SEP 25	
COL EP	20 19 26.0
SEP 25	
H-20 59 18.8	
24.5S 068.6W	
h ABOUT 102KM	
SJG EP	21 07 03.4
TUC E(P)	21 10 08.0
ALQ IP	21 10 17.0
EUR IP	21 11 05.8
BOZ EP	21 11 16.5
SEP 25	
COL EP	22 15 42.0
SEP 25	
COL EP	23 58 50.0
SEP 26	
H-00 36 23.0	
18.4N 101.2W	
h ABOUT 77KM	
TUC EP	00 40 08.7
E(L)	43 35.0
ALQ EP	00 40 20.2

Date and Station	Phase (GCT)
	h m s
GCA IP	00 40 59.0
BCN EP	00 41 07.7
E▸P	41 24.8
EUR IP	00 41 37.2
I▸P	41 54.7
BOZ EP	00 42 13.0
E	42 25.0
E▸P	42 31.0
EPCP	45 22.5
HHM EP	00 42 40.1
E▸P	42 57.6
SJG EP	00 42 54.8
E▸P	43 14.5
COL IP	00 45 52.8
I▸P	46 11.5
IPCP	46 51.0
SEP 26	
H-01 02 58.8	
31.8S 179.8E	
h ABOUT 402KM	
EUR EP	01 15 27.0
SEP 26	
BOZ E(P)	01 27 02.0
SEP 26	
CED IP	01 41 06.0
SEP 26	
EUR EP	02 21 25.3
E	21 37.3
SEP 26	
H-02 37 50.9	
34.7N 116.4W	
h ABOUT 8KM	
CED IP	02 38 08.5
BCN E(P)	02 38 23.4
IS	38 52.5
EUR IP	02 39 05.9
I	39 23.1
IL	40 23.9
TUC E(P)	02 39 10.2
EL	40 42.0
GCA E(P)	02 39 16.0
ALQ IP	02 40 24.3
SEP 26	
H-04 03 36.4	
51.2N 178.9E	
h ABOUT 51KM	
COL IP	04 08 27.1
HHM EP	04 11 24.6
BOZ EP	04 11 47.2
I	11 58.5

Date and Station	Phase (GCT)
	h m s
EUR EP	04 11 54.5
I	12 00.8
ALQ E(P)	04 13 03.0
SEP 26	
H-05 47 56.2	
13.0S 070.3W	
h ABOUT 37KM	
ALQ E(P)	05 57 52.0
EUR EP	05 58 49.8
SEP 26	
H-06 57 15.4	
31.0S 178.3W	
h ABOUT 60KM	
TUC EP	07 10 09.6
EUR EP	07 10 13.3
SEP 26	
H-07 00 01.2	
34.7N 116.5W	
h ABOUT 16KM	
CED IP	07 00 17.8
BCN IP D	07 00 32.6
GCA IP	07 01 11.8
I	01 19.5
EUR IP	07 01 15.0
TUC EP	07 01 19.5
EL	02 26.0
UKI E(P)	07 01 44.5
SLC EP	07 01 48.8
I(S)	02 16.9
ALQ IP	07 02 02.4
I	02 33.5
IL	04 16.5
BOZ EP	07 02 52.0
E	03 32.5
EL	05 38.0
EL	06 06.0
BUT E(P)	07 03 02.8
EL	06 16.8
HHM E(P)	07 03 29.6
SEP 26	
TUC E(P)	07 29 12.0
EL	30 15.5
SEP 26	
TUC E(P)	08 10 40.0
E(L)	11 49.0
SEP 26	
H-08 15 21.0	
6.4S 151.7E	
h ABOUT 20KM	
COL IP	08 27 49.0

Date and Station	Phase	(GCT)
		h m s
EUR	EP	08 28 48.7
SEP 26		
COL	IP	08 27 28.9
SEP 26		
H-08 30 40.9		
23.3S 180.0W		
h ABOUT 549KM		
EUR	EP	08 42 26.5
SEP 26		
SJG	EP	08 41 03.0
SEP 26		
SJG	E(P)	09 42 05.5
SEP 26		
H-10 03 18.7		
54.3N 035.3W		
h ABOUT 33KM		
BOZ	EP	10 11 54.5
COL	IP	10 12 11.7
EUR	EP	10 12 43.1
	EPCP	13 47.6
TUC	E(P)	10 12 58.0
CFD	EP	10 13 15.6
SEP 26		
EUR	EP	10 34 28.3
	E	34 53.8
SEP 26		
ALQ	E(P)	10 41 23.0
SEP 26		
H-13 16 01.0		
23.2S 176.0W		
h ABOUT 73KM		
TUC	EP	13 28 21.4
EUR	IP	13 28 23.8
	EPCP	28 30.1
ALQ	EP	13 28 43.3
BOZ	EP	13 28 54.0
COL	IP	13 28 54.2
	I▸P	29 15.1
SEP 26		
H-13 48 40.6		
49.5N 159.2E		
h ABOUT 33KM		
COL	IP	13 55 01.2
	I▸P	55 11.6
BOZ	EP	13 58 25.0
	E▸P	58 35.0
EUR	EP	13 58 34.7
	I▸P	58 44.9
SEP 26		
COL	EP	14 03 06.0
EUR	IP	14 04 39.0
SEP 26		
COL	IP	15 44 57.2
SEP 26		
H-15 47 41.4		
40.4N 124.7W		
h ABOUT 33KM		
UKI	E(P)	15 48 09.2
EUR	IP	15 49 20.5
	EL	51 18.0
SEP 26		
TUC	E(P)	16 51 03.0
SEP 26		
SJG	EP	17 58 30.5
SEP 26		
EUR	EP	18 02 29.9
	E(S)	03 30.0
SEP 26		
CFD	IP	18 05 55.7
	IL	06 38.2
EUR	IP	18 06 04.8
BCN	E(P)	18 06 26.8
	EL	07 24.0
SEP 26		
CFD	EP	18 10 56.2
	EL	11 39.2
EUR	EP	18 11 38.7
	E(S)	12 37.5
SEP 26		
H-19 28 26.5		
20.4N 105.6W		
h ABOUT 33KM		
TUC	EP	19 31 28.0
EUR	IP	19 33 09.1
SEP 26		
H-19 41 45.7		
31.5N 131.7E		
h ABOUT 45KM		
COL	IP	19 51 36.5
EUR	EP	19 54 21.0
SEP 26		
ALQ	IP	19 53 25.0
EUR	EP	19 54 54.6
COL	IP	19 57 52.0
SEP 26		
SJG	E(P)	20 21 13.7
	IL	22 05.5
SEP 26		
H-21 33 54.3		
54.8S 038.3W		
h ABOUT 33KM		
SJG	EP	21 45 40.0
CSC	EP	21 47 15.0
	EPP	51 06.0
ALQ	IP	21 48 08.7
	IPKKP	22 03 38.5
	IPKKP	03 53.0
EUR	EP'	21 52 32.7
	EPP	53 34.0
	ESKP	56 04.4
	E	58 55.5
	IPKKP	22 03 10.6
	E	07 08.3
	E	10 46.0
BCN	EPKKP	22 03 23.0
GCA	EPKKP	22 03 24.7
TUC	EPKKP	22 03 37.8
	EKKP	03 53.2
BOZ	EP'	21 52 39.0
	EPP	53 50.0
	EPKKP	22 03 04.0
	ESKKP	06 44.0
	E	10 26.0
BUT	EP'	21 52 39.4
	E(PP)	53 58.3
HHM	EPKKP	22 02 44.6
	E	06 32.6
COL	IP'	21 53 27.2
	ESKKKS	04 06.0
SEP 26		
COL	EP	23 14 34.0
SEP 27		
H-01 10 58.6		
67.5N 139.9E		
h ABOUT 35KM		
COL	EP	01 16 45.0
BOZ	EP	01 20 30.0
EUR	IP	01 20 59.1
SEP 27		
H-01 18 45.8		
06.7N 084.5W		
h ABOUT 33KM		
BHP	IP	01 20 05.0
	IS	21 03.0
SJG	EP	01 23 26.5
EUR	E(P)	01 26 45.5
SEP 27		
COL	IP	01 39 54.0
SEP 27		
H-03 15 55.3		
01.4S 080.6W		
h ABOUT 86KM		
SJG	EP	03 21 05.5
EUR	EP	03 25 01.1
BOZ	EP	03 25 17.0
SEP 27		
COL	IP	03 21 15.9
SEP 27		
TUC	E(P)	03 26 05.0
SEP 27		
EUR	E(P)	03 28 21.0
	EL	31 17.5
GCA	E(P)	03 29 54.8
SEP 27		
TUC	E(P)	04 19 31.8
SEP 27		
H-04 27 04.3		
15.1S 173.7W		
h ABOUT 98KM		
COL	IP	04 39 15.5
SEP 27		
H-05 09 12.9		
51.9N 175.6E		
h ABOUT 39KM		
COL	IP	05 14 13.2
BRW	EP C	05 14 16.7
	E	14 41.6
KIP	EP	05 16 19.0
HHM	EP	05 17 15.6
	IPCP	19 03.1
BOZ	IP	05 17 37.8
EUR	IP	05 17 47.5
	IPCP	23 08.2
CFD	EP	05 18 07.3
BCN	EP	05 18 10.0
GCA	EP	05 18 20.0
TUC	EP C	05 18 46.3
CSC	E(P)	05 20 27.5
SJG	EP	05 22 20.1
SEP 27		
TUC	E(P)	06 27 17.0
SEP 27		
COL	EP	06 44 18.0
SEP 27		
TUC	E(P)	07 46 55.4
SEP 27		
COL	EP	07 57 47.0
SEP 27		
H-08 30 59.4		
51.5N 179.3W		
h ABOUT 49KM		

Date and Station	Phase (GCT)
	h m s
COL EP	08 35 40.0
EUR IP	08 39 09.5
SEP 27	
COL EP	08 43 18.0
SEP 27	
COL EP	09 46 22.0
SEP 27	
H-10 00 44.1	
16.8S 167.3E	
h ABOUT 21KM	
COL EP	10 13 33.0
EUR IP	10 13 47.0
SEP 27	
RCD E(P)	10 35 29.5
SEP 27	
H-11 23 06.1	
65.4N 164.6W	
h ABOUT 33KM	
COL EP	11 24 50.0
EUR EP	11 30 21.5
SEP 27	
EUR IP	12 17 21.0
E	17 34.6
SEP 27	
EUR EP	12 24 12.5
SEP 27	
TUC E(P)	12 55 54.5
SEP 27	
EUR EP	13 34 32.2
EL	35 35.5
SEP 27	
ALQ EP	13 54 18.0
SEP 27	
COL EP	15 47 43.0
SEP 27	
H-16 04 24.6	
36.5N 070.2E	
h ABOUT 221KM	
COL IP	16 15 41.2
FPP	16 52.7
IPP	16 58.2
SEP 27	
COL EP	17 13 29.0
SEP 27	
EUR E(P)	18 57 23.5
SEP 27	
H-20 39 42.0	
46.0N 151.1E	
h ABOUT 44KM	
COL IP	20 46 54.1

Date and Station	Phase (GCT)
	h m s
EUR IP	20 50 18.3
IPP	50 30.3
SEP 27	
COL IP	21 42 09.8
SEP 27	
COL IP	23 29 52.3
SEP 28	
EUR IP	03 35 44.0
SEP 28	
COL EP	05 02 11.0
SEP 28	
H-05 06 39.8	
28.1S 178.1W	
h ABOUT 53KM	
HON EP	05 15 48.0
KIP EP	05 15 50.0
GUA E(P)	05 16 15.0
ES	23 19.0
BCN EP	05 19 21.7
TUC EP	05 19 24.6
ESKS	30 00.0
EUR E(P)	05 19 28.0
IPP	19 43.4
EPP	22 35.5
EPKKP	37 20.6
GCA EP	05 19 35.0
ALQ IP	05 19 44.8
E	31 03.0
COL EP	05 20 02.0
E(PP)	24 00.0
SEP 28	
BUT E(P)	05 23 48.7
SEP 28	
TUC E(P)	05 26 52.9
EUR EP	05 27 03.5
SEP 28	
TUC EP	05 32 35.0
E	32 48.2
EUR EP	05 32 41.1
SEP 28	
COL EP	06 59 16.0
SEP 28	
H-07 47 38.1	
29.3N 142.1E	
h ABOUT 33KM	
COL EP	07 57 11.0
HHM EP	07 59 29.4
BUT EP	07 59 41.6
EUR IP	07 59 48.0

Date and Station	Phase (GCT)
	h m s
RCD E(P)	08 00 15.0
ALQ E(P)	08 00 33.0
SEP 28	
H-08 03 06.5	
29.2N 142.2E	
h ABOUT 27KM	
COL EP	08 12 43.0
EUR E(P)	08 15 16.0
RCD E(P)	08 15 45.0
ALQ E(P)	08 16 02.5
SEP 28	
H-08 24 07.4	
21.5S 180.0W	
h ABOUT 642KM	
EUR EP	08 35 38.6
COL EP	08 35 59.0
SEP 28	
H-10 01 04.9	
14.0S 166.3E	
h ABOUT 35KM	
COL EP	10 13 41.0
EUR IP	10 14 01.5
SEP 28	
H-10 18 35.3	
14.6S 173.7W	
h ABOUT 33KM	
EUR E(P)	10 30 21.2
ALQ E(P)	10 30 46.5
COL EP	10 30 51.0
SEP 28	
COL EP	11 06 23.0
EUR EP	11 09 37.2
SEP 28	
H-11 17 29.4	
59.3S 026.9W	
h ABOUT 33KM	
COL EP'	11 37 21.0
SEP 28	
H-13 18 40.7	
34.2N 117.7W	
h ABOUT 9KM	
CED IP	13 18 47.2
BCN EP	13 19 28.8
IL	20 15.2
EUR IP	13 20 04.4
IL	21 36.0
SEP 28	
CED IP	13 47 11.3
IS	47 15.6

Date and Station	Phase (GCT)
	h m s
SEP 28	
HHM E(P)	13 47 17.4
SEP 28	
H-13 50 02.9	
34.2N 117.7W	
h ABOUT 8KM	
CED IP	13 50 09.5
BCN EP	13 50 51.0
IL	51 37.5
EUR EP	13 51 26.8
EL	53 00.0
SEP 28	
HHM EP	13 56 19.4
I	58 47.4
RCD EP	13 57 30.0
SEP 28	
EUR EP	15 22 01.4
SEP 28	
COL EP	15 45 32.0
SEP 28	
EUR EP	18 36 50.2
SEP 28	
EUR EP	19 14 16.8
SEP 28	
H-19 24 27.1	
31.2S 177.3W	
h ABOUT 33KM	
EUR EP	19 37 26.5
SEP 28	
EUR E(P)	19 26 10.8
F	26 32.5
SEP 28	
GCA E(P)	21 15 12.7
EUR EP	21 15 46.8
SEP 28	
FGU IP	21 42 29.3
E(S)	42 46.0
EUR EP	21 43 13.8
EL	44 28.8
SEP 28	
EUR EP	23 02 13.4
SEP 28	
TUC E(P)	23 08 03.5
EUR EP	23 08 30.0
SEP 28	
H-23 20 24.1	
45.3N 028.2W	
h ABOUT 33KM	
RCD E(P)	23 29 23.5
COL E(P)	23 30 24.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	23 30 43.6
SEP 28	
EUR E(P)	23 36 47.5
SEP 29	
H-01 16 28.9	
32.1S 177.9W	
h ABOUT 30KM	
TUC E(P)	01 29 27.2
EUR EP	01 29 33.4
SEP 29	
EUR IP	02 12 16.1
ALQ EP	02 14 06.0
SEP 29	
EUR E(P)	02 21 56.6
SEP 29	
H-05 06 50.6	
59.0S 025.6W	
h ABOUT 33KM	
COL EP	05 26 43.0
SEP 29	
EUR EP	05 35 37.4
E	35 57.6
SEP 29	
COL IP	05 53 25.1
SEP 29	
COL IP	06 27 06.2
SEP 29	
COL E(P)	06 44 15.8
SEP 29	
COL EP	08 36 30.0
SEP 29	
EUR EP	10 08 47.3
SEP 29	
COL EP	10 34 12.0
IL	35 07.5
SEP 29	
TUC E(P)	12 07 17.0
SEP 29	
H-13 11 28.0	
6.4N 124.6E	
h ABOUT 28KM	
COL EP	13 23 53.0
SEP 29	
H-13 49 26.2	
52.5N 170.7W	
h ABOUT 55KM	
COL IP	13 53 21.1
EUR IP	13 56 51.3
IPCP	58 59.0
ISCP	14 02 42.9
TUC EP	13 57 53.6

Date and Station	Phase (GCT)
	h m s
ALQ IP	13 58 00.5
IPCP	59 29.0
SEP 29	
CED EP	14 11 06.0
IL	11 42.0
TUC E(P)	14 11 25.5
SEP 29	
EUR IP	14 26 36.0
SEP 29	
H-15 25 17.4	
28.3S 177.8W	
h ABOUT 73KM	
EUR E(P)	15 38 03.7
SEP 29	
COL EP	15 45 48.7
SEP 29	
COL EP	16 17 07.0
SEP 29	
EUR E(P)	18 21 07.7
E	21 14.0
SEP 29	
EUR E(P)	18 31 25.4
SEP 29	
EUR EP	18 38 55.3
SEP 29	
H-18 59 56.1	
39.8N 105.1W	
h ABOUT 5KM	
FGU IP	19 00 51.0
RCD E(P)	19 01 08.4
E	01 16.0
ALQ IP	19 01 12.5
IL	02 30.8
GCA IP	19 01 26.7
EUR E(P)	19 02 03.2
TUC E(P)	19 02 14.0
HHM E(P)	19 02 29.4
SEP 29	
EUR E(P)	19 21 01.7
SEP 29	
ALQ E(P)	19 23 20.2
SEP 29	
EUR E(P)	20 49 20.0
SEP 29	
H-21 26 35.6	
28.2S 177.6W	
h ABOUT 26KM	
TUC EP	21 39 23.0
EUR IP	21 39 27.0

Date and Station	Phase (GCT)
	h m s
SEP 29	
EUR EP	22 13 58.4
SEP 29	
H-22 18 59.8	
45.0N 028.2W	
h ABOUT 33KM	
EUR EP	22 29 18.4
SEP 29	
EUR IP	22 51 06.0
SEP 29	
EUR E(P)	22 52 03.5
SEP 29	
H-22 52 31.4	
29.3S 179.3W	
h ABOUT 33KM	
EUR EP	23 05 31.5
COL EP	23 06 00.0
SEP 29	
COL IP	23 16 42.1
SEP 29	
H-23 20 17.9	
45.2N 028.2W	
h ABOUT 24KM	
WSC EP	23 27 22.5
HHM IP	23 29 54.9
FGU I(P)	23 29 56.5
COL IP	23 30 29.0
EUR IP	23 30 39.1
I	30 50.2
E	32 36.3
TUC EP	23 30 45.4
BCN EP	23 30 48.0
SEP 29	
H-23 22 58.0	
39.8N 104.8W	
h ABOUT 5KM	
ALQ E(P)	23 24 24.5
SEP 29	
COL IP	23 52 23.1
SEP 30	
H-01 25 20.7	
4.3N 082.6W	
h ABOUT 38KM	
BHP IP C	01 26 43.0
IS	27 50.0
SJG EP	01 30 05.5
ALQ IP	01 32 35.8
EUR E(P)	01 33 45.5

Date and Station	Phase (GCT)
	h m s
SEP 30	
EUR EP	01 27 50.7
SEP 30	
H-01 30 20.5	
18.6N 104.7W	
h ABOUT 33KM	
EUR IP	01 35 22.9
SEP 30	
COL EP	03 28 32.0
SEP 30	
EUR E(P)	04 05 36.2
SEP 30	
H-04 10 36.4	
20.4N 105.8W	
h ABOUT 33KM	
TUC E(P)	04 13 38.3
ALQ EP	04 14 02.8
SLC EP	04 15 20.2
EUR IP	04 15 19.9
COL EP	04 19 51.1
SEP 30	
H-04 12 36.5	
27.2S 177.9W	
h ABOUT 62KM	
TUC EP	04 25 16.5
EUR EP	04 25 21.0
SEP 30	
H-07 06 34.4	
21.2S 179.3W	
h ABOUT 615KM	
EUR EP	07 18 05.5
COL IP	07 18 25.4
EPP	20 39.5
ALQ E(P)	07 18 26.0
SEP 30	
H-07 07 45.0	
21.1S 179.2W	
h ABOUT 615KM	
EUR EP	07 19 16.0
COL IP	07 19 35.6
EPP	21 49.5
ALQ EP	07 19 36.0
SEP 30	
SJG EP	09 20 35.5
IS	21 07.0
SEP 30	
COL EP	11 28 52.8

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
SEP 30		SEP 30					
H-11 35 06.6		SJG EP	23 58 09.0				
3.1S 079.0W							
h ABOUT 73KM							
ALQ IP	11 43 23.8						
EUR FP	11 44 27.7						
SEP 30							
COL IP	12 28 33.9						
SEP 30							
EUR EP	12 51 14.2						
SEP 30							
EUR EP	19 11 05.6						
E(S)	09 12 11.8						
SEP 30							
EUR EP	19 43 07.2						
SEP 30							
COL EP	19 59 09.8						
SEP 30							
EUR E(P)	20 59 34.0						
SEP 30							
H-21 35 27.7							
24.3N 122.2E							
h ABOUT 66KM							
HHM FP	21 48 30.9						
SEP 30							
H-23 47 39.9							
59.7N 143.4W							
h ABOUT 12KM							
SIT EP	23 48 57.0						
COL IP C	23 49 05.3						
I	49 35.2						
IS	50 00.0						
BUT EP	23 52 40.4						
E(S)	57 15.4						
UKI E(P)	23 52 59.0						
EUR EP D	23 53 19.6						
E	53 30.0						
ES	58 06.5						
FGU E(P)	23 53 31.2						
BCN F(P)	23 53 39.5						
GCA E(P)	23 53 55.5						
ALQ IP	23 54 29.5						
TUC E(P)	23 54 32.2						
ES	00 00 18.0						
WAS E	23 55 40.0						
EPCP	57 31.0						
EL	00 06 37.5						
CSC E(P)	23 56 18.0						
E(S)	00 03 30.0						
BHP E(P)	23 58 56.0						