SEISMOLOGICAL BULLETIN

August 1965

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CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 18

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SEISMOLOGICAL BULLETIN

1965

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
*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 Latitutde 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, 1959, the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States. The horizontal instruments will continue in operation and the seismograms for the local and regional earthquakes will be scaled and the data published.

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

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

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

U. S. Department of Commerce
Environmental Science Services Administration
Coast and Geodetic Survey
Seismology Division
Washington, D. C. 20235

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
1	02 29 36*	51.3 N	171.7 W	33	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.
1	02 40 04.5	38.9 S	74.4 W	33		OFF COAST OF CENTRAL CHILE.
1	03 53 40*	51.3 N	171.2 W	33	4.5	FOX ISLANDS, ALEUTIAN ISLANDS.
1	04 36 41*	4.9 S	80.9 W	66	4.0	PERU-ECUADOR BORDER REGION.
1	05 31 11.6	56.1 N	154.2 W	39	4.5	KODIAK ISLAND REGION.
1	06 06 36*	51.4 N	171.2 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
1	06 13 59*	16.7 S	71.4 W	97	4.1	SOUTHERN PERU.
1	07 28 04*	20.1 S	177.0 W	315	4.1	FIJI ISLANDS REGION.
1	09 19 51.1	0.3 N	125.8 E	82	5.4	MOLUCCA PASSAGE.
1	12 48 38*	51.2 N	171.6 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
1	14 14 01.8	32.6 N	93.6 E	33	5.5	TIBET.
1	14 56 53.6	51.1 N	171.7 W	33	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.
1	15 02 56.3	46.9 N	143.8 E	401	5.3	SAKHALIN ISLAND.
1	15 58 58.3	51.2 N	171.7 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
1	16 02 26*	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA.
1	16 41 05.0	52.8 N	153.4 E	445	5.1	NORTHWEST OF KURILE ISLANDS.
1	18 06 27*	33.1 N	115.9 W	16	3.8	SOUTHERN CALIFORNIA.
1	18 19 20.1	11.3 S	164.4 E	33	4.8	SANTA CRUZ ISLANDS REGION.
1	18 53 50.0	13.7 N	145.6 E	33	4.3	MARIANA ISLANDS.
1	19 28 04.4	24.7 S	176.9 W	92	5.3	SOUTH OF FIJI ISLANDS.
1	20 09 17.3	32.7 N	93.1 E	25	5.2	TIBET.
1	20 34 16.8	13.5 S	165.8 E	13	5.8	NEW HEBRIDES ISLANDS.
1	22 10 01*	36.7 S	79.4 E	33	4.4	MID-INDIAN RISE.
1	22 13 44.5	15.4 S	167.6 E	125	4.5	NEW HEBRIDES ISLANDS.
1	22 50 47.1	21.5 S	169.2 E	33	4.3	LOYALTY ISLANDS REGION.
1	23 44 28.2	32.5 S	178.9 W	45	5.8	SOUTH OF KERMADEC ISLANDS.
2	00 23 31*	44.8 N	128.4 W	33	3.2	OFF COAST OF OREGON.
2	01 12 34*	32.9 N	141.7 E	43	4.1	SOUTH OF HONSHU, JAPAN.
2	03 10 32*	52.3 N	170.8 W	33	3.6	FOX ISLANDS, ALEUTIAN ISLANDS.
2	04 49 59*	13.8 N	54.0 E	33	4.3	SOCOTRA REGION.
2	04 56 18.5	14.3 N	53.9 E	33	4.9	ARABIAN SEA.
2	07 27 00*	59.6 N	145.5 W	43	4.0	GULF OF ALASKA.
2	08 45 30*	62.0 N	156.9 W	33	4.6	CENTRAL ALASKA.
2	13 19 55.9	56.2 S	157.9 E	33	6.6	MACQUARIE ISLAND REGION. MAG. 7-7 1/4 (PAS), 7.8 (BRK), 7 (PAL).
2	14 34 21.4	7.4 N	78.7 W	20	5.5	PANAMA.
2	14 36 12.5	7.5 N	78.4 W	57		PANAMA.
2	15 08 07.2	7.4 N	78.6 W	26	4.3	PANAMA. FELT AT BALBOA HEIGHTS, CANAL ZONE.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
2	15 25 59*	7.5 N	78.8 W	33	4.1	PANAMA.
2	16 43 11.7	7.4 N	78.7 W	17	5.4	PANAMA. FELT AT BALBOA HEIGHTS, CANAL ZONE. MAG. 5.2 (BRK), 4 3/4 (PAL).
2	17 49 49*	32.8 N	93.2 E	47	4.8	TIBET.
2	18 04 57*	7.6 N	78.6 W	33	4.8	PANAMA.
2	18 44 21.2	7.6 N	78.5 W	21	4.7	PANAMA.
2	19 07 57.4	7.4 N	78.8 W	34	5.3	PANAMA. MAG. 4 3/4 (BRK), 4 3/4 (PAL).
2	19 17 52*	8.6 N	78.4 W	44	4.2	PANAMA.
2	19 38 33*	42.5 N	143.0 E	32		HOKKAIDO, JAPAN REGION.
2	20 43 29.2	7.5 N	78.5 W	24	4.8	PANAMA.
2	22 48 00.8	19.0 S	169.1 E	151	4.3	NEW HEBRIDES ISLANDS.
2	23 25 02*	53.2 N	173.3 W	33	3.9	ANDREANOF ISLANDS, ALEUTIAN IS.
3	01 24 59.0	52.4 N	172.2 E	44	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
3	02 01 52.2	7.4 S	81.3 W	33	5.8	OFF COAST OF NORTHERN PERU. MAG. 5.4 (BRK), 5 (PAL).
3	07 02 35.3	36.2 N	69.4 E	37	4.9	HINDU KUSH REGION.
3	07 35 21.9	33.3 N	91.1 E	41	5.1	TSINGHAI PROVINCE, CHINA.
3	08 30 44.3	34.4 N	139.1 E	37	4.9	NEAR S. COAST OF HONSHU, JAPAN.
3	08 31 31*	45.0 N	112.0 W	19		MONTANA.
3	08 36 36.2	34.7 N	138.7 E	88	4.4	NEAR S. COAST OF HONSHU, JAPAN.
3	09 13 48.9	56.6 N	159.7 W	47	5.1	ALASKA PENINSULA.
3	09 36 38.5	21.3 S	179.2 W	593	4.8	FIJI ISLANDS REGION.
3	13 50 03.1	35.1 N	139.2 E	98	4.6	NEAR S. COAST OF HONSHU, JAPAN.
3	14 41 55*	15.9 S	172.6 W	33	4.7	SAMOA ISLANDS REGION.
3	15 04 43*	23.7 S	179.1 E	551	4.0	SOUTH OF FIJI ISLANDS.
3	15 22 59*	18.7 N	106.1 W	33	4.2	OFF COAST OF JALISCO, MEXICO.
3	15 41 34*	34.7 N	139.7 E	33	4.4	NEAR S. COAST OF HONSHU, JAPAN.
3	18 00 32.7	15.5 S	167.5 E	128	4.9	NEW HEBRIDES ISLANDS.
3	19 12 13.6	1.8 S	126.5 E	57	4.6	MOLUCCA SEA.
3	19 56 13.2	7.8 N	78.4 W	33	4.5	PANAMA.
4	01 05 50.4	16.8 N	94.4 W	91	5.3	OAXACA, MEXICO. MAG. 4-4 1/2 (BRK).
4	02 16 53*	10.1 N	61.9 W	33		TRINIDAD.
4	04 34 39.6	7.9 N	78.5 W	23	4.0	PANAMA.
4	06 39 29*	33.7 S	179.3 W	33	4.3	SOUTH OF KERMADEC ISLANDS.
4	08 47 09.4	13.2 S	167.0 E	209	5.7	NEW HEBRIDES ISLANDS.
4	09 38 44.0	14.9 S	166.9 E	59	4.3	NEW HEBRIDES ISLANDS.
4	11 49 55.8	44.0 N	12.2 E	25	4.7	NORTHERN ITALY.
4	12 41 47.1	5.7 S	130.6 E	74	4.0	BANDA SEA.
4	16 18 16.8	51.1 N	171.7 W	33	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
4	17 03 33*	51.1 N	171.7 W	33	4.5	FOX ISLANDS, ALEUTIAN ISLANDS.
4	19 15 04*	35.5 N	26.7 E	42	4.7	CRETE.
4	19 43 19*	37.3 N	72.0 E	162		TADZHIK SSR.
4	20 11 11.5	16.2 N	98.9 W	43	4.3	NEAR COAST OF GUERRERO, MEXICO.
4	21 27 49*	30.2 N	138.4 E	494	3.5	SOUTH OF HONSHU, JAPAN.
5	00 07 50.9	5.2 S	151.6 E	50	6.2	NEW BRITAIN REGION. FELT ON EASTERN NEW BRITAIN. MAG. 6 1/2 (PAS), 5.8 (BRK), 6 1/2-6 3/4 (PAL).
5	02 57 55.4	17.3 S	69.6 W	162	4.2	PERU-BOLIVIA BORDER REGION.
5	11 02 21.2	15.1 S	176.9 W	388	4.6	FIJI ISLANDS REGION.
5	11 16 07*	21.3 S	67.3 W	197	4.4	CHILE-BOLIVIA BORDER REGION.
5	14 27 29*	65.8 S	178.9 E	33		BALLENY ISLANDS REGION.
5	14 31 01*	53.1 N	178.9 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
5	19 05 08*	14.8 N	91.0 W	59	4.0	GUATEMALA. ONE KILLED AND FOUR INJURED.
5	19 47 43*	65.4 S	179.1 E	33		BALLENY ISLANDS REGION.
5	19 49 48*	7.7 S	68.1 E	33	5.0	CHAGOS ARCHIPELAGO REGION.
5	21 56 45*	23.4 S	65.2 W	206	4.1	JUJUY PROVINCE, ARGENTINA.
6	01 58 37.0	0.4 S	19.6 W	8	5.2	CENTRAL MID-ATLANTIC RIDGE.
6	02 57 26.9	21.5 S	179.7 W	579		FIJI ISLANDS REGION.
6	04 43 39.1	8.7 N	58.3 E	33	4.4	CARLSBERG RIDGE.
6	05 54 02*	8.8 N	58.4 E	33	4.1	CARLSBERG RIDGE.
6	10 43 39*	33.6 N	138.0 E	336	3.7	SOUTH OF HONSHU, JAPAN.
6	11 44 48*	51.6 N	173.5 W	40	4.3	ANDREANOF ISLANDS, ALEUTIAN IS.
6	12 16 07.9	18.5 S	169.2 E	33	4.6	NEW HEBRIDES ISLANDS.
6	12 46 19*	61.9 N	148.2 W	33	3.9	SOUTHERN ALASKA.
6	15 39 49.2	44.7 N	109.8 W	33	3.9	YELLOWSTONE NATIONAL PARK, WYO.
6	17 23 30.038					37° 01' 03.6"N. 116° 02' 23.0"W. NEVADA TEST SITE. "MAUVE". SHOT ELEVATION 894.2 METERS (AEC).
6	18 15 11.3	41.5 N	131.2 E	553	5.3	SEA OF JAPAN.
6	21 56 16.0	22.2 S	170.3 E	17		LOYALTY ISLANDS REGION.
7	01 21 07.4	50.1 N	171.9 W	33	4.2	ALEUTIAN ISLANDS REGION.
7	05 26 07.4	9.2 S	78.7 W	70	4.4	NEAR COAST OF NORTHERN PERU.
7	06 48 07.3	51.2 N	174.5 E	18	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
7	08 30 36*	45.1 N	112.3 W	33		MONTANA.
7	11 18 36.7	31.5 S	178.0 W	33	4.6	KERMADEC ISLANDS.
7	11 32 43.2	37.4 N	72.1 E	219		TADZHIK SSR.
7	12 06 04.1	29.5 S	175.7 W	33	4.5	KERMADEC ISLANDS.
7	12 39 56*	9.4 S	124.3 E	33		TIMOR.
7	13 26 21.0	6.8 N	126.8 E	81	4.4	MINDANAO, PHILIPPINE ISLANDS.

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AUG	H M S	DEG	DEG	KM		
7	14 06 03.0	6.8 N	126.9 E	76	4.4	MINDANAO, PHILIPPINE ISLANDS.
7	16 10 10*	20.9 N	121.5 E	39	4.2	PHILIPPINE ISLANDS REGION.
7	21 14 43.6	61.9 N	151.0 W	80	4.8	SOUTHERN ALASKA.
7	23 57 48.8	20.0 S	176.3 W	215	3.8	FIJI ISLANDS REGION.
8	00 25 27.1	15.9 S	167.2 E	17	4.4	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
8	04 32 42.3	6.7 N	127.0 E	73	4.9	PHILIPPINE ISLANDS REGION.
8	05 19 23.7	52.5 N	173.4 E	17	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
8	06 31 59.9	20.4 S	68.7 W	115	5.2	CHILE-BOLIVIA BORDER REGION.
8	06 32 28*	19.6 S	68.7 W	53	5.4	CHILE-BOLIVIA BORDER REGION. FELT AT IQUIQUE.
8	09 46 28.9	4.0 N	128.5 E	45	5.4	NORTH OF HALMAHERA.
8	11 28 21.9	61.2 N	149.3 W	86	4.1	SOUTHERN ALASKA.
8	12 13 11.4	20.2 S	66.9 W	245	3.9	SOUTHERN BOLIVIA.
8	12 49 23.4	51.8 N	175.2 W	53	5.3	ANDREANOF ISLANDS, ALEUTIAN IS. FELT ON ADAK. MAG. 4.5 (BRK).
8	14 56 23*	51.0 N	174.9 E	33	4.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
8	16 16 53.1	28.9 N	69.2 E	33		WEST PAKISTAN.
8	16 28 08*	45.3 N	150.4 E	33	4.4	KURILE ISLANDS.
8	22 54 02*	35.6 S	103.8 W	33	4.8	SOUTHERN PACIFIC OCEAN.
8	23 11 29*	39.9 S	15.9 W	33	4.4	TRISTAN DA CUNHA REGION.
9	02 34 22.2	7.0 S	123.2 E	579	5.1	BANDA SEA.
9	03 29 52.3	52.2 N	178.2 W	118	5.0	ANDREANOF ISLANDS, ALEUTIAN IS.
9	04 19 05*	51.2 N	171.8 W	33	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
9	07 53 18*	3.1 S	79.5 W	251	3.8	NEAR COAST OF ECUADOR.
9	08 40 29.8	1.4 S	78.7 W	132	5.1	ECUADOR.
9	09 08 07.2	5.1 S	11.7 W	33	4.8	ASCENSION ISLAND REGION.
9	09 22 49.8	4.9 S	11.9 W	33	4.7	NORTH OF ASCENSION ISLAND.
9	10 07 02.4	5.9 S	104.8 E	75	5.2	SOUTHERN SUMATRA.
9	10 17 12.6	34.2 N	138.9 E	41	4.6	NEAR S. COAST OF HONSHU, JAPAN.
9	10 20 52*	47.8 N	27.7 W	33	4.9	NORTH ATLANTIC RIDGE.
9	13 03 17.4	27.0 N	142.9 E	33	4.5	BONIN ISLANDS REGION.
9	16 39 17.8	0.6 S	127.5 E	135	5.7	HALMAHERA.
9	17 26 43.1	5.7 S	149.6 E	131	5.1	NEW BRITAIN REGION.
9	23 12 21.5	28.7 S	71.2 W	32	5.4	NEAR COAST OF CENTRAL CHILE. FELT AT COPIAPO.
10	00 21 16.1	20.1 S	170.1 E	9	4.5	NEW HEBRIDES ISLANDS.
10	01 15 20*	10.9 N	62.2 W	133	3.8	NEAR COAST OF VENEZUELA.
10	03 15 50*	51.5 N	177.0 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
10	04 07 21.9	51.1 N	171.3 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.

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AUG	H M S	DEG	DEG	KM		
10	07 59 53*	32.5 N	115.7 W	16	4.7	CALIFORNIA-MEXICO BORDER REGION.
10	08 06 47*	65.4 S	180.0 W	33		SOUTH PACIFIC CORDILLERA.
10	08 21 07*	61.3 N	60.2 W	33	4.2	DAVIS STRAIT.
10	08 47 17.3	15.2 S	172.8 W	11	5.0	SAMOA ISLANDS REGION.
10	11 15 20.1	52.4 N	173.5 E	46	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
10	14 45 17*	25.1 S	177.9 W	540	3.8	SOUTH OF FIJI ISLANDS.
10	18 42 42.2	23.4 S	178.3 E	609		SOUTH OF FIJI ISLANDS.
10	21 46 33.9	18.4 S	172.5 W	35	5.1	TONGA ISLANDS REGION.
11	00 45 35.9	51.2 N	171.7 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
11	02 22 31*	39.0 N	135.2 E	375	3.7	SEA OF JAPAN.
11	02 54 48*	14.7 N	92.9 W	111	4.4	NEAR COAST OF CHIAPAS, MEXICO.
11	03 10 05.2	15.4 S	166.9 E	24	4.8	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
11	03 40 54.7	15.5 S	166.9 E	14	6.3	NEW HEBRIDES ISLANDS. MAG. 7 (PAS), 7.0 (BRK).
11	07 18 45.3	15.6 S	167.1 E	32	5.0	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
11	08 47 45.5	15.7 S	166.9 E	33	4.4	NEW HEBRIDES ISLANDS.
11	10 05 17.9	15.7 S	167.1 E	33	4.5	NEW HEBRIDES ISLANDS.
11	10 43 08.8	47.3 N	153.2 E	75		KURILE ISLANDS.
11	11 22 56*	21.7 S	170.3 E	106		LOYALTY ISLANDS REGION.
11	12 22 48*	33.4 S	179.2 W	33	4.8	SOUTH OF KERMADEC ISLANDS.
11	14 07 41.7	15.5 S	167.2 E	44	4.5	NEW HEBRIDES ISLANDS.
11	18 15 39*	10.8 N	83.2 W	33	3.9	COSTA RICA. FELT.
11	18 29 38.2	59.5 N	146.1 W	16	5.5	GULF OF ALASKA.
11	19 02 05*	7.5 N	84.6 W	39	4.1	OFF COAST OF COSTA RICA.
11	19 41 26*	6.7 N	72.9 W	173	4.6	NORTHERN COLOMBIA.
11	19 47 43.4	15.7 S	167.0 E	32	5.2	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
11	19 52 28.4	15.6 S	167.0 E	23	5.6	NEW HEBRIDES ISLANDS. MAG. 6 1/2 (PAS).
11	20 04 15*	6.9 N	73.1 W	157	4.9	NORTHERN COLOMBIA. FELT AT BOGOTA AND BUCARAMANGA.
11	20 13 59.1	15.7 S	167.0 E	51	6.0	NEW HEBRIDES ISLANDS. MAG. 6 1/2 (BRK).
11	20 54 10*	15.6 S	167.1 E	95	4.2	NEW HEBRIDES ISLANDS.
11	20 55 10.3	15.6 S	166.8 E	20	4.7	NEW HEBRIDES ISLANDS.
11	22 31 45.9	15.8 S	167.2 E	13	6.4	NEW HEBRIDES ISLANDS. HEAVY PROPERTY DAMAGE. SEISMIC SEA WAVE OF 4 FEET AT VILA AND 8 FEET AT TONGOA. MAG. 7 1/4-7 1/2 (PAS), 7 1/2-7 3/4 (BRK).
11	23 51 08*	16.6 S	165.8 E	33	4.4	NEW HEBRIDES ISLANDS.
12	00 54 03.8	16.0 S	167.2 E	28	5.0	NEW HEBRIDES ISLANDS.
12	01 04 29*	20.7 S	177.9 W	366	4.1	FIJI ISLANDS REGION.
12	01 17 33*	16.0 S	166.9 E	46	4.7	NEW HEBRIDES ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
12	01 20 49.4	16.2 S	167.1 E	26	4.8	NEW HEBRIDES ISLANDS.
12	01 25 01.9	23.3 S	175.7 W	45	5.2	TONGA ISLANDS REGION.
12	01 33 34.6	1.5 N	126.4 E	49	5.6	MOLUCCA PASSAGE.
12	02 14 53*	20.7 S	175.7 W	8		TONGA ISLANDS.
12	02 21 34.4	16.1 S	167.5 E	46	5.0	NEW HEBRIDES ISLANDS.
12	03 13 42*	15.9 S	167.1 E	33	4.6	NEW HEBRIDES ISLANDS.
12	03 31 16*	3.4 S	29.4 E	33	4.9	LAKE TANGANYIKA REGION.
12	03 44 29*	16.0 S	167.3 E	33	4.0	NEW HEBRIDES ISLANDS.
12	03 50 45.6	51.3 N	171.6 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
12	03 57 55*	22.2 S	69.1 W	70	4.8	NORTHERN CHILE.
12	04 00 10*	16.3 S	167.2 E	43	4.5	NEW HEBRIDES ISLANDS.
12	04 39 49.1	17.7 S	178.7 W	545	4.4	FIJI ISLANDS REGION.
12	04 51 00*	15.8 S	166.9 E	33	4.4	NEW HEBRIDES ISLANDS.
12	05 37 22.7	49.5 S	164.0 E	33	5.3	AUCKLAND ISLANDS REGION.
12	05 57 38*	15.7 S	167.0 E	78		NEW HEBRIDES ISLANDS.
12	06 14 36*	16.3 S	167.3 E	34		NEW HEBRIDES ISLANDS.
12	06 27 19*	13.1 N	42.6 W	33	4.4	NORTH ATLANTIC OCEAN.
12	07 27 04.8	15.7 S	167.1 E	33	4.9	NEW HEBRIDES ISLANDS.
12	08 01 43.5	15.9 S	167.4 E	26	6.2	NEW HEBRIDES ISLANDS. FELT AT PORT VILA. MAG. 6 3/4 (PAS), 6.5 (BRK), 6 1/2 (PAL).
12	09 04 38.0	50.2 N	129.7 W	16	4.9	VANCOUVER ISLAND REGION.
12	10 20 11*	51.4 N	174.0 E	33	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
12	12 12 38*	50.5 N	176.6 E	15	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
12	12 57 09.7	5.2 S	152.1 E	42	5.9	NEW BRITAIN REGION. FELT WIDELY. MAG. 6 1/2-6 3/4 (PAS), 6-6 1/4 (BRK), 7 1/4 (PAL).
12	13 45 44*	45.0 N	112.8 W	33	3.4	MONTANA.
12	14 01 15.8	5.0 S	152.1 E	59	5.0	NEW BRITAIN REGION. FELT AT RABAUL.
12	16 13 19*	29.0 S	69.4 W	80	4.5	CHILE-ARGENTINA BORDER REGION.
12	17 19 03.1	36.5 N	70.2 E	227	4.4	HINDU KUSH REGION.
12	18 04 56.3	15.9 S	167.4 E	47	5.3	NEW HEBRIDES ISLANDS. FELT AT PORT VILA. MAG. 5.4 (BRK).
12	18 23 54*	16.4 S	167.3 E	33	4.6	NEW HEBRIDES ISLANDS.
12	19 28 43.6	16.0 S	167.0 E	29	4.9	NEW HEBRIDES ISLANDS.
12	19 47 24.2	16.1 S	167.3 E	33	4.7	NEW HEBRIDES ISLANDS.
12	20 58 14.6	5.3 S	152.2 E	50	4.8	NEW BRITAIN REGION.
12	23 30 47*	16.8 S	167.4 E	33		NEW HEBRIDES ISLANDS.
13	00 05 41*	16.3 S	166.8 E	33	4.8	NEW HEBRIDES ISLANDS.
13	00 15 46*	0.0 S	18.2 W	33	4.5	CENTRAL MID-ATLANTIC RIDGE.
13	00 54 43.5	4.3 S	80.9 W	34	5.2	PERU-ECUADOR BORDER REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
13	01 06 34*	17.5 S	178.3 W	544	4.4	FIJI ISLANDS REGION.
13	02 13 14.0	13.6 N	120.0 E	36	5.7	MINDORO, PHILIPPINE ISLANDS.
13	02 48 04*	16.7 S	167.8 E	33		NEW HEBRIDES ISLANDS.
13	03 31 05*	16.1 S	167.1 E	33	5.0	NEW HEBRIDES ISLANDS.
13	04 18 36.8	5.6 S	151.6 E	65	4.6	NEW BRITAIN REGION. FELT AT PALMALMAL.
13	04 40 55.3	15.9 S	167.5 E	34	5.7	NEW HEBRIDES ISLANDS. MAG. 5.4 (BRK).
13	05 34 29*	15.9 S	167.3 E	12		NEW HEBRIDES ISLANDS.
13	08 07 09*	15.5 S	167.3 E	33	4.5	NEW HEBRIDES ISLANDS.
13	09 19 25*	31.3 N	116.1 W	33	4.5	BAJA CALIFORNIA.
13	09 28 34*	31.4 N	115.9 W	33	4.0	BAJA CALIFORNIA.
13	09 47 36.2	6.0 S	151.1 E	39	5.1	NEW BRITAIN REGION.
13	11 24 51.9	16.0 S	167.0 E	33	5.5	NEW HEBRIDES ISLANDS. MAG. 5.8 (BRK).
13	11 40 10*	16.3 S	171.6 W	33	4.6	SAMOA ISLANDS REGION.
13	11 48 40*	16.0 S	166.8 E	85	4.8	NEW HEBRIDES ISLANDS.
13	11 58 02*	23.8 N	122.2 E	75	5.0	TAIWAN REGION.
13	12 40 08.0	15.9 S	166.8 E	33	5.6	NEW HEBRIDES ISLANDS. MAG. 5 3/4 (BRK).
13	12 40 37.6	15.9 S	167.6 E	94	6.2	NEW HEBRIDES ISLANDS. MAG. 7 (PAS), 7-7 1/4 (BRK).
13	13 29 06*	46.7 N	146.0 E	280	4.6	NORTHWEST OF KURILE ISLANDS.
13	13 46 15*	34.4 N	119.7 W	16	4.3	SOUTHERN CALIFORNIA. MAG. 3 3/4 (PAS).
13	13 53 28*	16.0 S	166.8 E	34	4.8	NEW HEBRIDES ISLANDS.
13	13 59 56*	16.1 S	167.2 E	33		NEW HEBRIDES ISLANDS.
13	14 03 19*	15.8 S	166.9 E	60	4.8	NEW HEBRIDES ISLANDS.
13	14 44 32*	15.7 S	167.0 E	33		NEW HEBRIDES ISLANDS.
13	14 51 01*	15.6 S	166.3 E	33	4.5	NEW HEBRIDES ISLANDS.
13	15 19 17.2	61.2 N	151.4 W	92	4.2	SOUTHERN ALASKA.
13	15 23 20.7	16.9 S	167.7 E	43	4.9	NEW HEBRIDES ISLANDS.
13	16 14 23*	16.4 S	167.1 E	24		NEW HEBRIDES ISLANDS.
13	16 42 03*	15.5 S	166.7 E	33	3.8	NEW HEBRIDES ISLANDS.
13	17 55 28*	19.2 S	166.4 E	33		NEW HEBRIDES ISLANDS REGION.
13	17 56 26.7	16.6 S	167.6 E	33	5.4	NEW HEBRIDES ISLANDS. MAG. 5 1/4-5 3/4 (BRK).
13	18 01 12*	16.5 S	167.5 E	96	5.0	NEW HEBRIDES ISLANDS.
13	18 07 26*	15.6 S	167.0 E	33	5.4	NEW HEBRIDES ISLANDS.
13	18 23 32.1	16.7 S	167.6 E	33	4.6	NEW HEBRIDES ISLANDS.
13	19 18 25.1	16.2 S	167.0 E	12	5.2	NEW HEBRIDES ISLANDS.
13	20 07 35.7	16.7 S	167.9 E	33	4.9	NEW HEBRIDES ISLANDS.
13	20 10 32*	17.2 S	167.7 E	43	4.5	NEW HEBRIDES ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
13	20 51 06*	51.5 N	177.0 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
13	21 57 38.4	6.5 S	148.6 E	51	5.6	NEW BRITAIN REGION. MAG. 5 1/2 (BRK).
14	00 29 01.7	16.6 S	167.9 E	50	4.3	NEW HEBRIDES ISLANDS.
14	00 32 03*	30.7 S	177.9 W	33	4.7	KERMADEC ISLANDS REGION.
14	01 27 18.0	47.3 N	153.1 E	41	4.4	KURILE ISLANDS.
14	03 43 25.4	16.0 S	167.3 E	33	3.8	NEW HEBRIDES ISLANDS.
14	03 47 48.4	1.8 N	84.8 W	33	4.0	OFF COAST OF ECUADOR.
14	04 13 02*	51.4 N	175.8 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
14	04 47 54*	38.9 N	21.6 E	33	4.1	GREECE.
14	05 04 30*	37.1 N	89.3 W	5		CAPE GIRARDEAU, MISSOURI REGION.
14	05 46 17*	37.2 N	89.3 W	5		CAPE GIRARDEAU, MISSOURI REGION. FELT AT TAMMS AND UNITY ILL.
14	06 35 15.4	19.3 S	177.4 W	570	3.9	FIJI ISLANDS REGION.
14	07 35 54.8	16.5 S	167.7 E	33	4.9	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO.
14	09 33 09.3	17.9 S	167.8 E	33	4.4	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
14	11 04 42*	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA. MAG. 3 1/4 (PAS).
14	11 07 46.8	15.8 S	166.8 E	33	5.5	NEW HEBRIDES ISLANDS. MAG. 5.5-5.7 (BRK), 6 (PAL).
14	11 39 28*	40.9 N	141.3 E	80	4.7	NEAR EAST COAST OF HONSHU, JAPAN.
14	13 13 54.1	37.1 N	89.2 W	5	5.0	CAPE GIRARDEAU, MISSOURI REGION. SLIGHT DAMAGE AT TAMMS, ILL. FELT AT ELCO, UNITY AND OLIVE BRANCH.
14	13 18 06.5	11.5 S	166.3 E	51	5.8	SANTA CRUZ ISLANDS.
14	14 13 50.5	22.9 S	175.5 W	33	4.7	TONGA ISLANDS REGION.
14	14 40 24*	19.5 S	173.7 W	48	4.6	TONGA ISLANDS.
14	15 06 09*	18.0 S	178.4 W	603		FIJI ISLANDS REGION.
14	16 06 46.8	19.6 S	178.1 W	592	4.8	FIJI ISLANDS REGION.
14	17 14 47.5	37.5 N	72.3 E	198	4.7	TADZHIK SSR.
14	17 47 50*	51.3 N	171.6 W	33	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.
14	20 00 12*	15.6 S	166.7 E	33	4.7	NEW HEBRIDES ISLANDS.
14	23 11 58.9	17.3 S	167.2 E	34	4.5	NEW HEBRIDES ISLANDS.
15	01 50 00*	10.9 N	62.2 W	115	3.8	NEAR COAST OF VENEZUELA.
15	03 49 55*	52.4 N	173.1 W	53	4.2	ANDREANOF ISLANDS, ALEUTIAN IS.
15	04 12 56*	14.6 N	92.3 W	168	4.1	NEAR COAST OF CHIAPAS, MEXICO.
15	04 44 20.4	13.9 N	120.4 E	18	4.7	MINDORO, PHILIPPINE ISLANDS.
15	05 43 44.4	22.3 S	179.5 W	581	4.7	SOUTH OF FIJI ISLANDS.
15	05 59 47.0	36.5 N	71.1 E	201	4.8	AFGHANISTAN-USSR BORDER REGION.
15	06 07 25*	37.5 N	89.3 W	5	5.1	CAPE GIRARDEAU, MISSOURI REGION.
15	08 49 45.1	52.3 N	171.6 E	33	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
15	10 46 10*	44.6 N	149.3 E	60	4.0	KURILE ISLANDS.
15	11 55 06.0	16.0 S	167.0 E	63	4.6	NEW HEBRIDES ISLANDS.
15	14 21 06.0	16.8 S	167.2 E	7	4.8	NEW HEBRIDES ISLANDS.
15	19 36 56.5	2.6 N	60.2 W	42	5.1	BRAZIL.
15	22 53 15.8	68.1 N	165.3 W	66	4.4	ALASKA.
15	23 05 58.2	15.5 S	172.8 W	41	5.1	SAMOA ISLANDS REGION.
15	23 06 53.2	36.5 N	121.2 W	13	4.2	CENTRAL CALIFORNIA. FELT IN HOLLISTER AREA. MAG. 4 (PAS), 3.2 (BRK).
15	23 47 22*	22.3 S	170.7 E	153		LOYALTY ISLANDS REGION.
16	01 51 57*	19.9 S	168.4 E	35	4.0	NEW HEBRIDES ISLANDS.
16	02 56 51*	17.1 S	167.6 E	33		NEW HEBRIDES ISLANDS.
16	04 36 35.5	35.3 N	35.6 W	16	4.7	NORTH ATLANTIC RIDGE.
16	10 10 13.0	26.1 S	69.2 W	86	4.3	NORTHERN CHILE.
16	12 16 52.0	5.1 N	77.6 W	28	5.2	NEAR WEST COAST OF COLOMBIA.
16	12 19 37.1	5.1 N	77.6 W	46	5.4	NEAR WEST COAST OF COLOMBIA.
16	12 36 23.6	0.5 S	19.9 W	35	6.2	CENTRAL MID-ATLANTIC RIDGE.
16	13 38 48.5	20.6 S	178.8 W	550	4.6	FIJI ISLANDS REGION.
16	14 43 48.0	6.0 S	153.9 E	78	5.4	NEW BRITAIN REGION.
16	14 44 48*	17.4 S	167.7 E	20	4.8	NEW HEBRIDES ISLANDS.
16	15 23 48*	18.8 N	108.2 W	33	3.7	REVILLA GIGEDO ISLANDS REGION.
16	15 52 02*	19.0 S	177.0 W	287	3.6	FIJI ISLANDS REGION.
16	16 18 28*	11.0 N	121.7 E	275	4.2	PANAY, PHILIPPINE ISLANDS.
16	16 37 12.9	19.0 S	167.6 E	17	5.0	NEW HEBRIDES ISLANDS REGION.
16	17 01 26*	61.4 S	154.5 E	33		BALLENY ISLANDS REGION.
16	17 47 31.4	17.2 S	167.8 E	4		NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
16	17 51 34.8	17.3 S	167.7 E	17	5.1	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
16	18 02 22*	19.5 N	108.0 W	116	4.3	REVILLA GIGEDO ISLANDS REGION.
16	18 17 48*	45.1 N	111.7 W	33		MONTANA.
16	19 53 15.2	35.3 N	35.1 W	33	4.5	NORTH ATLANTIC RIDGE.
16	22 59 22.9	17.3 S	167.8 E	34	5.3	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
17	00 22 23.9	35.1 N	35.2 W	33	4.6	NORTH ATLANTIC RIDGE.
17	01 13 25*	1.7 S	19.3 W	33	4.4	CENTRAL MID-ATLANTIC RIDGE.
17	05 55 00*	51.2 N	171.8 W	33	3.9	FOX ISLANDS, ALEUTIAN ISLANDS.
17	06 19 43*	52.3 N	172.1 E	42	4.2	NEAR ISLANDS, ALEUTIAN ISLANDS.
17	07 09 34.4	41.7 N	112.7 W	33		UTAH.
17	07 30 29.9	5.4 N	76.7 W	193	3.9	COLOMBIA.
17	07 36 10*	12.3 N	125.6 E	17		SAMAR, PHILIPPINE ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
17	07 40 41.2	12.4 N	125.5 E	33	5.3	SAMAR, PHILIPPINE ISLANDS.
17	08 06 05*	12.3 N	125.6 E	83	5.0	SAMAR, PHILIPPINE ISLANDS.
17	08 46 05.5	53.9 N	160.8 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
17	10 20 29*	52.3 N	169.6 W	33	3.8	FOX ISLANDS, ALEUTIAN ISLANDS.
17	10 35 04.4	5.3 N	96.2 E	43	5.4	NORTHERN SUMATRA.
17	11 14 10.4	5.2 S	152.6 E	47	5.8	NEW BRITAIN REGION.
17	12 14 30.9	20.6 S	177.8 W	501	4.2	FIJI ISLANDS REGION.
17	12 52 39*	5.3 N	96.2 E	53	4.9	NORTHERN SUMATRA.
17	13 04 31.6	6.7 S	147.0 E	95	5.4	EAST NEW GUINEA REGION.
17	13 16 13.9	51.8 N	175.3 W	51	5.2	ANDREANOF ISLANDS, ALEUTIAN IS.
17	14 02 19*	15.0 N	92.1 W	137	5.0	MEXICO-GUATEMALA BORDER REGION.
17	16 17 41.5	15.2 S	166.6 E	19	5.8	NEW HEBRIDES ISLANDS.
17	16 25 11.5	15.3 S	167.7 E	222	4.2	NEW HEBRIDES ISLANDS.
17	17 29 51*	15.7 S	166.6 E	104	4.2	NEW HEBRIDES ISLANDS.
17	17 36 08*	15.6 S	166.4 E	27	4.2	NEW HEBRIDES ISLANDS.
17	19 29 39.7	5.2 S	152.0 E	76	4.9	NEW BRITAIN REGION.
17	20 28 59*	15.2 S	166.6 E	15	4.1	NEW HEBRIDES ISLANDS.
17	20 45 33.6	21.1 S	69.1 W	110	4.8	NORTHERN CHILE.
17	20 57 03.4	15.3 S	166.6 E	33	4.5	NEW HEBRIDES ISLANDS.
17	21 25 49.2	5.2 N	77.5 W	25	4.6	NEAR WEST COAST OF COLOMBIA.
17	22 07 43*	16.9 S	173.4 W	163	4.0	TONGA ISLANDS.
17	22 18 52.5	20.4 S	168.8 E	33	5.2	LOYALTY ISLANDS.
18	00 48 47*	36.5 N	70.3 E	222		HINDU KUSH REGION.
18	02 49 31*	2.4 N	95.3 W	33	4.3	GALAPAGOS ISLANDS REGION.
18	03 19 43.2	15.2 S	166.6 E	42	4.8	NEW HEBRIDES ISLANDS.
18	04 49 53*	61.3 N	146.0 W	33	3.8	SOUTHERN ALASKA.
18	05 10 30*	10.5 N	141.3 E	62	4.4	WEST CAROLINE ISLANDS.
18	05 56 54.9	17.3 S	167.6 E	26	4.7	NEW HEBRIDES ISLANDS.
18	07 20 03*	1.9 S	78.2 W	265	3.5	ECUADOR.
18	08 10 27*	16.2 S	167.2 E	33		NEW HEBRIDES ISLANDS.
18	10 01 48.1	37.9 S	73.6 W	33	4.8	NEAR COAST OF CENTRAL CHILE.
18	11 13 17.2	7.0 S	129.1 E	135	5.2	BANDA SEA.
18	12 04 18*	16.4 S	167.2 E	33		NEW HEBRIDES ISLANDS.
18	12 55 50*	25.9 N	125.9 E	108	4.7	SOUTHWESTERN RYUKYU ISLANDS.
18	14 00 35*	57.7 N	152.1 W	33	4.6	KODIAK ISLAND REGION.
18	14 14 35.4	23.3 S	175.5 W	76	4.9	TONGA ISLANDS REGION.
18	14 25 26.0	23.2 S	175.5 W	63	4.9	TONGA ISLANDS REGION.
18	14 29 00.7	23.1 S	175.6 W	104	4.3	TONGA ISLANDS REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
18	14 38 39.1	23.3 S	175.5 W	89	4.6	TONGA ISLANDS REGION.
18	14 51 30.5	16.1 S	166.9 E	11	5.7	NEW HEBRIDES ISLANDS. FELT AT PORT VILA. MAG. 5 3/4-6 (PAS), 6 (BRK).
18	15 25 29*	81.3 N	5.5 W	33	4.3	NORTH OF SVALBARD.
18	15 41 04*	23.8 S	177.5 W	255	3.9	SOUTH OF FIJI ISLANDS.
18	15 56 17*	23.2 S	175.5 W	93	4.3	TONGA ISLANDS REGION.
18	16 48 08*	52.8 N	176.4 W	175	5.1	ANDREANOF ISLANDS, ALEUTIAN IS.
18	17 37 56.4	52.7 N	169.0 W	67	4.5	FOX ISLANDS, ALEUTIAN ISLANDS.
18	19 02 35*	50.6 N	130.0 W	33	3.5	VANCOUVER ISLAND REGION.
18	22 37 08.9	16.0 S	167.0 E	33		NEW HEBRIDES ISLANDS.
18	23 01 03*	52.3 N	170.4 E	33	4.2	NEAR ISLANDS, ALEUTIAN ISLANDS.
18	23 40 54*	16.8 S	172.8 W	33	4.5	SAMOA ISLANDS REGION.
18	23 41 33.9	20.7 N	109.0 W	33		REVILLA GIGEDO ISLANDS REGION.
19	00 48 49.2	28.1 N	142.4 E	33	4.7	BONIN ISLANDS REGION.
19	02 37 53*	13.6 N	93.8 E	33	4.5	ANDAMAN ISLANDS REGION.
19	02 53 58*	6.8 N	127.1 E	50	4.5	PHILIPPINE ISLANDS REGION.
19	07 43 00.4	44.2 N	129.0 W	33	4.5	OFF COAST OF OREGON.
19	08 22 17*	23.2 S	175.2 W	33	4.7	TONGA ISLANDS REGION.
19	09 07 13.9	16.2 S	167.2 E	25	4.5	NEW HEBRIDES ISLANDS.
19	12 40 56.8	6.0 S	151.4 E	42	4.7	NEW BRITAIN REGION.
19	13 51 45.7	25.7 S	178.9 W	321	4.6	SOUTH OF FIJI ISLANDS.
19	16 22 37.6	20.6 S	168.9 E	8	4.2	LOYALTY ISLANDS.
19	18 15 18*	52.1 N	178.2 E	141	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
19	19 08 05.2	15.8 S	166.5 E	66		NEW HEBRIDES ISLANDS.
19	19 14 26.2	46.1 N	13.0 E	64		AUSTRIA.
19	19 41 56.8	46.2 N	13.1 E	51		AUSTRIA.
19	19 47 23.2	30.3 N	138.5 E	439	5.2	SOUTH OF HONSHU, JAPAN.
19	21 02 15.7	44.6 N	118.4 W	33	4.4	OREGON.
20	02 02 04*	41.4 N	72.3 E	88		KIRGIZ SSR.
20	05 54 50.5	5.7 S	128.6 E	327	6.2	BANDA SEA. MAG. 6 3/4 (PAS).
20	08 31 25*	5.4 N	125.2 E	78	5.4	MINDANAO, PHILIPPINE ISLANDS.
20	09 42 48.7	18.9 S	69.0 W	128	6.2	NORTHERN CHILE. FELT AT AREQUIPA, PERU AND AT ARICA AND IQUIQUE, CHILE. MAG. 5.7 (BRK), 6 1/2 (PAS).
20	11 59 18*	49.4 N	159.9 E	33	4.8	KURILE ISLANDS REGION.
20	14 57 05.7	3.6 S	127.9 E	27	5.0	CERAM.
20	21 21 51.5	22.8 S	176.2 W	79	6.1	SOUTH OF FIJI ISLANDS. MAG. 5 3/4 (BRK), 6-6 1/4 (PAL).
20	22 09 25.2	23.9 N	121.9 E	58	4.9	TAIWAN.
20	23 42 30*	51.8 N	172.7 E	40	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
21	01 05 33*	37.4 N	96.7 E	33	4.5	TSINGHAI PROVINCE, CHINA.
21	01 08 11*	32.3 S	178.2 W	33	4.9	SOUTH OF KERMADEC ISLANDS.
21	03 17 52.8	22.1 S	179.5 W	582	4.5	SOUTH OF FIJI ISLANDS.
21	05 13 07*	7.8 S	129.4 E	200	5.2	BANDA SEA.
21	06 00 55.4	13.6 S	166.7 E	65	4.6	NEW HEBRIDES ISLANDS.
21	08 05 35.6	5.2 S	152.3 E	46	5.2	NEW BRITAIN REGION.
21	09 23 44*	50.2 N	177.1 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
21	10 10 42*	15.3 S	166.4 E	33	4.5	NEW HEBRIDES ISLANDS.
21	12 54 33.3	15.2 S	166.6 E	49	4.6	NEW HEBRIDES ISLANDS.
21	12 59 10*	17.5 S	178.2 W	542	4.9	FIJI ISLANDS REGION.
21	15 04 20.3	5.8 S	104.2 E	57	5.4	SOUTHERN SUMATRA.
21	16 59 39.7	43.8 N	139.7 E	130	4.2	EASTERN SEA OF JAPAN.
21	18 50 15.7	18.0 S	178.4 W	576	5.9	FIJI ISLANDS REGION.
21	19 50 52.8	52.9 N	174.7 W	200	4.2	ANDREANOF ISLANDS, ALEUTIAN IS.
21	23 13 19*	16.4 S	167.2 E	14		NEW HEBRIDES ISLANDS.
21	23 20 44*	46.4 N	153.0 E	33	4.0	KURILE ISLANDS.
22	03 20 36.0	43.1 S	170.8 E	33	4.8	SOUTH ISLAND, NEW ZEALAND.
22	03 30 12*	19.6 S	71.0 W	30	4.1	OFF COAST OF NORTHERN CHILE.
22	03 48 49.2	28.0 S	176.2 W	33	5.2	KERMADEC ISLANDS.
22	04 47 30.7	33.6 S	179.2 W	33	5.0	SOUTH OF KERMADEC ISLANDS.
22	05 11 41.5	52.2 N	173.2 E	42	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
22	07 52 54*	8.4 S	121.9 E	289	4.5	FLORES ISLAND REGION.
22	10 39 28*	2.3 S	76.9 W	187	4.1	PERU-ECUADOR BORDER REGION.
22	10 39 42.4	29.0 S	175.8 W	17	5.2	KERMADEC ISLANDS.
22	10 52 20.8	23.6 S	175.5 W	42	4.8	TONGA ISLANDS REGION.
22	12 24 22.5	7.8 S	74.5 W	141	4.7	PERU-BRAZIL BORDER REGION.
22	13 20 01.3	50.5 N	150.2 E	475	4.4	NORTHWEST OF KURILE ISLANDS.
22	15 27 02*	18.5 S	169.1 E	207	3.6	NEW HEBRIDES ISLANDS.
22	17 54 33*	42.3 N	110.6 W	33	3.3	WYOMING.
22	19 08 49*	17.0 S	167.4 E	33		NEW HEBRIDES ISLANDS.
23	00 08 11.8	13.1 S	75.2 W	107	4.2	PERU.
23	01 03 06*	42.5 N	111.3 W	33	3.6	EASTERN IDAHO.
23	02 17 24*	53.6 N	176.0 E	33	3.8	RAT ISLANDS, ALEUTIAN ISLANDS.
23	03 13 58.1	52.2 N	169.2 W	20	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
23	06 46 42.5	21.5 S	179.0 W	555		FIJI ISLANDS REGION.
23	13 32 37.5	49.2 N	129.0 W	14	4.5	VANCOUVER ISLAND REGION.
23	14 08 59.2	40.7 N	26.1 E	33	5.2	TURKEY. FELT IN NORTHWESTERN TURKEY.
23	17 13 29.7	10.4 S	161.3 E	78	5.3	SOLOMON ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
23	18 45 14*	23.5 N	122.1 E	37	4.5	TAIWAN REGION.
23	19 46 01.8	16.3 N	95.8 W	20	6.9	OAXACA, MEXICO. EIGHT KILLED IN MEXICO CITY, ONE KILLED IN OAXACA. SLIGHT DAMAGE. FELT THROUGHOUT SOUTHERN MEXICO. MAG. 7 1/4 (PAS), 7.6 (BRK), 7 1/4 (PAL).
23	21 29 58*	30.8 S	177.9 W	36	4.8	KERMADEC ISLANDS REGION.
23	22 09 47.1	3.7 S	151.4 E	6	5.3	NEW IRELAND REGION.
23	23 12 28.1	16.2 N	95.5 W	44	4.5	OAXACA, MEXICO.
23	23 13 45.7	16.0 N	95.4 W	27	4.9	OAXACA, MEXICO.
24	00 56 21.3	16.0 N	96.2 W	10	5.5	OAXACA, MEXICO. MAG. 5 1/4-5 1/2 (PAL).
24	01 01 01.0	16.1 N	96.2 W	36	5.5	OAXACA, MEXICO.
24	01 11 04.4	35.7 N	23.5 E	32	4.9	CRETE.
24	04 48 14*	1.1 S	136.5 E	58	5.8	WEST NEW GUINEA REGION.
24	05 46 02*	6.3 S	152.2 E	33	4.8	NEW BRITAIN REGION.
24	07 06 50.3	21.9 S	177.2 W	291	5.7	FIJI ISLANDS REGION. MAG. 4.7 (BRK).
24	07 10 15*	15.6 N	95.6 W	33	3.8	NEAR COAST OF OAXACA, MEXICO.
24	08 25 24*	15.9 N	96.0 W	33	4.0	NEAR COAST OF OAXACA, MEXICO.
24	09 50 33.6	33.7 S	72.0 W	48	5.0	OFF COAST OF CENTRAL CHILE.
24	13 12 21.1	59.4 N	145.8 W	33	5.3	GULF OF ALASKA. MAG. 5.2 (BRK).
24	14 03 16.0	3.2 S	141.0 E	54	5.5	NEW GUINEA.
24	15 46 49.6	3.9 S	151.3 E	33		NEW IRELAND REGION.
24	19 26 31.2	10.9 S	162.4 E	66	5.1	SOLOMON ISLANDS.
24	19 39 29*	53.7 N	177.4 W	126	4.0	ANDREANOF ISLANDS, ALEUTIAN IS.
24	22 22 21.2	25.0 S	179.1 W	393	4.4	SOUTH OF FIJI ISLANDS.
24	23 57 33.9	40.3 N	26.1 E	18	4.2	TURKEY.
25	03 00 30.2	19.9 S	176.1 W	261	4.5	FIJI ISLANDS REGION.
25	04 57 45.1	34.7 N	25.1 E	9	4.9	CRETE.
25	12 38 41.1	23.0 S	175.9 W	66	4.5	TONGA ISLANDS REGION.
25	14 27 39.7	22.1 S	114.2 W	33	4.9	EASTER ISLAND REGION.
25	14 50 36.0	17.5 S	69.8 W	147	4.9	PERU-BOLIVIA BORDER REGION. FELT AT AREQUIPA.
25	16 10 37*	52.0 N	168.0 W	33	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
25	17 45 39.8	1.5 S	126.3 E	49	4.7	MOLUCCA SEA.
26	04 15 45*	34.9 N	141.6 E	42	4.3	OFF EAST COAST OF HONSHU, JAPAN.
26	04 29 22*	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA.
26	05 00 46.2	60.9 N	149.5 W	33	3.8	KENAI PENINSULA, ALASKA.
26	05 14 26*	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA. MAG. 3 1/4-3 1/2 (PAS).
26	05 28 06*	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA. MAG. 3 1/4-3 1/2 (PAS).

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
26	06 36 11.9	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA. MAG. 3.4 (PAS).
26	06 55 58*	16.7 S	166.9 E	33		NEW HEBRIDES ISLANDS.
26	09 16 24*	13.0 N	59.8 W	10		WINDWARD ISLANDS.
26	09 38 31*	31.9 N	116.3 W	33		BAJA CALIFORNIA. MAG. 3 1/4-3 1/2 (PAS).
26	09 56 44*	17.9 S	178.5 W	565		FIJI ISLANDS REGION.
26	10 17 22.2	15.5 S	167.2 E	38	4.3	NEW HEBRIDES ISLANDS. FELT ON ESPIRITU SANTO. MAG. 4.2 (PAS).
26	12 53 50.6	33.2 N	116.0 W	16	4.5	SOUTHERN CALIFORNIA. MAG. 4.5 (BRK).
26	13 38 13.1	33.2 N	116.0 W	16	4.6	SOUTHERN CALIFORNIA. FELT AT INDIO. MAG. 4.5 (PAS), 5 (BRK).
26	13 46 35*	33.3 N	115.9 W	16		SOUTHERN CALIFORNIA.
26	13 49 25*	33.1 N	116.0 W	16	4.5	SOUTHERN CALIFORNIA. MAG. 3.9 (PAS).
26	14 44 23*	29.7 N	140.3 E	85	4.2	SOUTH OF HONSHU, JAPAN.
26	15 02 02.7	29.8 N	140.6 E	94	4.2	SOUTH OF HONSHU, JAPAN.
26	15 06 48*	51.1 N	178.1 E	33	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
26	15 09 29*	29.9 N	141.6 E	35	4.6	SOUTH OF HONSHU, JAPAN.
26	15 10 33*	7.1 S	129.0 E	115	3.8	BANDA SEA.
26	18 03 22*	50.8 N	157.3 E	33	4.2	KURILE ISLANDS.
26	20 54 02*	37.4 N	71.5 E	116		AFGHANISTAN-USSR BORDER REGION.
27	04 23 24*	40.1 N	49.2 E	43	4.5	EASTERN CAUCASUS.
27	06 33 37*	15.9 S	174.2 W	128	3.8	TONGA ISLANDS.
27	07 10 57*	27.8 N	142.6 E	33	4.4	BONIN ISLANDS REGION.
27	07 26 13*	47.0 N	8.0 E	33		SWITZERLAND.
27	07 51 34*	15.1 N	92.7 W	128	4.1	MEXICO-GUATEMALA BORDER REGION.
27	08 35 04*	15.8 N	96.1 W	33	4.1	NEAR COAST OF OAXACA, MEXICO.
27	08 42 44*	15.4 N	92.8 W	73	4.0	MEXICO-GUATEMALA BORDER REGION.
27	10 01 15*	33.0 N	115.9 W	16		SOUTHERN CALIFORNIA. MAG. 3 1/4 (PAS).
27	10 11 13*	33.1 N	115.9 W	14		SOUTHERN CALIFORNIA. MAG. 3 1/4-3 1/2 (PAS).
27	13 51 13.109					37° 08' 14.3"N. 116° 04' 12.3"W. NEVADA TEST SITE. "CENTAUR". SHOT ELEVATION 1124.4 METERS (AEC).
27	14 53 02*	59.6 N	145.1 W	39	3.8	GULF OF ALASKA.
27	15 31 03.0	51.1 N	178.8 E	39	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
27	18 22 07.0	44.6 N	149.1 E	75	5.4	KURILE ISLANDS.
27	20 26 20.2	16.1 S	167.3 E	38	4.2	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
27	21 39 30.5	16.0 N	96.0 W	33	3.7	OAXACA, MEXICO.
27	22 52 37*	49.7 N	155.7 E	69	4.5	KURILE ISLANDS.
28	00 26 38.1	32.3 S	138.1 E	33	4.9	NEAR SOUTH COAST OF AUSTRALIA. SLIGHT DAMAGE AT QUORN. FELT WIDELY.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
28	00 47 21*	11.9 N	141.1 E	153	4.4	WEST CAROLINE ISLANDS.
28	03 45 30*	16.0 N	95.6 W	71	4.2	OAXACA, MEXICO.
28	07 50 43*	51.5 N	159.3 E	51	4.5	OFF EAST COAST OF KAMCHATKA.
28	10 40 11*	10.2 S	123.7 E	33		TIMOR.
28	18 31 11.5	27.6 S	177.9 W	205	4.5	KERMADEC ISLANDS.
28	19 49 57.0	5.7 S	152.9 E	70	4.8	NEW BRITAIN REGION.
28	20 37 56*	53.9 N	164.8 W	25	4.8	UNIMAK ISLAND REGION.
28	23 59 00*	15.9 S	173.1 W	44	4.3	TONGA ISLANDS.
29	01 26 08*	14.8 N	91.5 W	33	3.9	GUATEMALA.
29	01 45 54.4	14.0 N	90.6 W	85	5.1	GUATEMALA. MAG. 4 1/2 (BRK).
29	02 32 51*	14.0 N	90.9 W	28	4.4	GUATEMALA.
29	02 35 01.5	19.1 S	167.6 E	33	5.0	NEW HEBRIDES ISLANDS REGION.
29	03 00 20*	45.7 N	111.6 W	17	3.7	MONTANA.
29	03 30 38*	51.3 N	177.6 W	34	4.0	ANDREANOF ISLANDS, ALEUTIAN IS.
29	06 19 24*	51.6 N	173.4 E	8	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
29	08 41 55.1	21.2 S	179.2 W	615	5.0	FIJI ISLANDS REGION.
29	10 31 27.4	4.1 S	140.2 E	32	5.5	WEST NEW GUINEA.
29	12 46 30.1	15.7 S	167.6 E	10	6.0	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
29	12 55 35.9	15.8 S	167.6 E	33	5.8	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
29	13 39 20*	39.1 N	23.9 E	33		AEGEAN SEA.
29	13 47 47*	15.9 S	167.6 E	3	4.4	NEW HEBRIDES ISLANDS.
29	13 57 23.5	17.6 S	179.1 W	614	5.6	FIJI ISLANDS REGION.
29	14 08 02.2	15.8 S	167.6 E	11	4.7	NEW HEBRIDES ISLANDS. FELT AT NORSUP.
29	15 58 03.9	35.6 N	140.3 E	87	4.2	NEAR EAST COAST OF HONSHU, JAPAN.
29	17 25 24*	19.6 S	176.2 W	311	4.6	FIJI ISLANDS REGION.
29	18 25 16*	39.7 N	122.1 W	33		NORTHERN CALIFORNIA. MAG. 3 1/2-3 3/4 (BRK).
29	18 31 24.6	15.7 S	167.6 E	14	5.1	NEW HEBRIDES ISLANDS.
29	18 38 22*	15.8 S	167.5 E	4	4.5	NEW HEBRIDES ISLANDS.
29	19 49 23*	16.4 S	167.1 E	101	4.6	NEW HEBRIDES ISLANDS.
29	21 35 16*	40.2 S	71.7 W	98	3.9	S. CHILE-ARGENTINA BORDER REGION.
30	00 43 13*	37.4 N	113.2 W	33		UTAH.
30	00 56 07.2	16.9 S	167.2 E	20	5.0	NEW HEBRIDES ISLANDS.
30	01 26 05.2	16.9 S	167.4 E	33	4.7	NEW HEBRIDES ISLANDS.
30	02 16 39.9	17.1 S	167.2 E	18	4.9	NEW HEBRIDES ISLANDS.
30	03 32 01.5	16.9 S	167.4 E	10	5.5	NEW HEBRIDES ISLANDS. FELT AT NORSUP. MAG. 5.3-5.5 (BRK).
30	03 48 00*	16.8 S	167.4 E	12		NEW HEBRIDES ISLANDS.
30	05 17 38*	32.1 N	102.3 W	33	3.5	WEST TEXAS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
AUG	H M S	DEG	DEG	KM		
30	05 44 51.0	16.8 S	167.5 E	10	4.5	NEW HEBRIDES ISLANDS.
30	07 49 50*	18.7 N	145.4 E	202		MARIANA ISLANDS.
30	09 28 19.5	8.8 S	117.5 E	39	5.1	SUMBAWA ISLAND REGION.
30	14 00 55.5	5.5 N	125.9 E	118	5.4	MINDANAO, PHILIPPINE ISLANDS.
30	14 08 54*	55.6 N	162.8 E	33	4.1	NEAR EAST COAST OF KAMCHATKA.
30	17 17 59*	18.5 S	177.7 W	504		FIJI ISLANDS REGION.
30	18 09 45.2	6.4 S	104.8 E	81	6.1	SUNDA STRAIT.
31	01 09 23*	51.0 N	128.6 W	33	3.9	VANCOUVER ISLAND REGION.
31	02 31 10*	39.7 N	138.3 E	59	4.6	EASTERN SEA OF JAPAN.
31	02 51 57.4	5.1 S	153.0 E	52	5.3	NEW IRELAND REGION.
31	03 45 55*	8.0 N	94.2 E	67	5.0	NICOBAR ISLANDS REGION.
31	05 57 04*	39.3 N	41.2 E	33	4.5	TURKEY.
31	07 29 45.8	39.3 N	40.8 E	10	5.1	TURKEY. 40 INJURED AND EXTENSIVE PROPERTY DAMAGE IN EASTERN TURKEY.
31	07 48 56.5	43.3 N	144.5 E	27	4.9	HOKKAIDO, JAPAN REGION. SLIGHT DAMAGE IN KUSHIRO AREA.
31	08 04 33*	43.4 N	144.5 E	19	4.8	HOKKAIDO, JAPAN REGION.
31	09 12 00.2	0.8 N	27.8 W	33	5.1	CENTRAL MID-ATLANTIC RIDGE.
31	09 46 01*	51.5 N	175.5 E	33	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
31	09 51 27*	12.5 N	144.0 E	35	4.8	SOUTH OF MARIANA ISLANDS.
31	10 49 30*	56.1 S	4.7 W	33	4.4	SOUTH ATLANTIC RIDGE.
31	10 51 56*	37.7 N	21.3 E	41	4.6	SOUTHERN GREECE.
31	11 26 23*	43.3 N	126.0 W	33	4.2	OFF COAST OF OREGON.
31	11 39 22*	52.3 N	171.7 E	33	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
31	14 47 46*	3.8 N	82.1 W	62	4.4	SOUTH OF PANAMA.
31	16 36 35.8	15.5 S	166.8 E	33	5.6	NEW HEBRIDES ISLANDS.
31	17 43 20.2	16.1 S	167.2 E	10	4.4	NEW HEBRIDES ISLANDS.
31	19 43 14.2	17.1 N	145.2 E	334	5.2	MARIANA ISLANDS.
31	20 24 23*	17.2 N	98.5 W	62	4.3	GUERRERO, MEXICO.
31	22 44 14*	18.0 S	173.1 W	33	4.8	TONGA ISLANDS.
31	23 18 05*	13.4 N	92.0 W	26	4.7	OFF COAST OF CHIAPAS, MEXICO.

Date and Station	Phase (GCT)
	h m s
AUG 1	
SIT E(P)	01 04 49.1
AUG 1	
COL E(P)	01 08 34.4
E	09 00.5
AUG 1	
KIP E(P)	01 44 51.5
AUG 1	
TUC E(P)	02 00 52.0
AUG 1	
COL IP	02 10 47.2
AUG 1	
H-02 29 36.0	
51.3N 171.7W	
h ABOUT 33KM	
COL EP	02 33 49.0
BRW EP	02 34 20.7
E	34 32.0
BOZ EP	02 37 02.5
E	37 14.5
EUR IP	02 37 09.3
AUG 1	
H-02 40 04.5	
38.9S 074.4W	
h ABOUT 33KM	
TUC EP	02 52 04.5
E	52 13.5
ALQ IP	02 52 08.4
EUR IP	02 52 48.0
AUG 1	
H-03 53 39.6	
51.3N 171.2W	
h ABOUT 33KM	
COL IP	03 57 50.5
BRW IP	03 58 23.1
E	58 34.6
HHM EP	04 00 41.8
BOZ EP	04 01 04.0
E	01 15.5
EUR IP	04 01 11.0
TUC EP	04 02 12.2
AUG 1	
BOZ IP	04 45 23.2
AUG 1	
H-05 31 11.6	
56.1N 154.2W	
h ABOUT 39KM	
COL IP	05 33 26.8
BOZ E(P)	05 37 04.0
EUR EP	05 37 19.5
AUG 1	
H-06 06 36.4	
51.4N 171.2W	
h ABOUT 33KM	
COL EP	06 10 47.0
EUR IP	06 14 07.9
TUC EP	06 15 09.1
AUG 1	
EUR EP	06 49 03.5
AUG 1	
H-07 28 04.0	
20.1S 177.0W	
h ABOUT 315KM	
COL IP	07 40 16.7
AUG 1	
COL IP	07 49 05.2
AUG 1	
EUR E(P)	08 10 33.6
AUG 1	
H-09 19 51.1	
00.3N 125.8E	
h ABOUT 82KM	
GUA EP	09 24 49.0
BRW IP	09 32 22.9
COL IP	09 32 33.1
EUR IP'	09 38 10.0
BOZ EP'	09 38 19.5
TUC EP'	09 38 30.3
ALQ IP'	09 38 35.6
AUG 1	
COL EP	09 44 35.5
BRW E(P)	09 44 59.0
AUG 1	
COL EP	10 07 28.0
AUG 1	
GUA EP	10 20 46.6
COL EP	10 30 41.0
AUG 1	
COL EP	10 37 01.0
AUG 1	
BRW E(P)	12 32 31.5
AUG 1	
COL E(P)	12 35 36.7
BRW E(P)	12 37 00.8
AUG 1	
H-12 48 37.5	
51.2N 171.6W	
h ABOUT 33KM	
COL IP	12 52 51.2
BRW EP	12 53 23.7
E	53 33.6
EUR EP	12 56 11.0
AUG 1	
EUR EP	13 28 08.4
AUG 1	
BRW E(P)	13 55 21.0
AUG 1	
H-14 14 01.8	
32.6N 093.6E	
h ABOUT 33KM	
BRW EP	14 24 43.1
COL IP	14 25 22.4
AUG 1	
BRW EP	14 39 06.3
AUG 1	
COL E(P)	14 42 15.0
AUG 1	
H-14 56 53.6	
51.1N 171.7W	
h ABOUT 33KM	
COL EP	15 01 09.0
BRW EP	15 01 39.4
I	01 41.6
I	01 51.1
AUG 1	
H-15 02 56.3	
46.9N 143.8E	
h ABOUT 401KM	
GUA EP	15 08 55.0
BRW IP	15 09 26.8
IpP	10 43.7
EPCP	11 44.5
E(S)	14 33.9
COL IP	15 09 54.0
E	10 03.0
IpP	11 11.5
KIP IP	15 11 36.2
HHM EP	15 12 47.2
EPCP	13 20.3
EpP	14 14.8
BUT EP	15 13 02.0
EpP	14 29.0
BOZ IP D	15 13 06.5
IpP	14 34.0
EUR IP	15 13 19.2
IpP	14 48.0
TUC EP	15 14 04.9
EpP	15 36.8
ALQ IP	15 14 08.6
EpP	15 39.0
AUG 1	
ALQ IP	15 11 45.8
AUG 1	
RCD EP	15 15 06.8
E	15 45.0
ALQ E(P)	15 15 51.0
AUG 1	
BRW EP	15 27 19.2
E	28 00.2
AUG 1	
COL EP	15 39 34.2
AUG 1	
H-15 58 58.3	
51.2N 171.7W	
h ABOUT 33KM	
COL E(P)	16 03 23.4
BRW EP	16 03 43.5
I	03 55.5
BOZ EP	16 06 25.0
EUR IP	16 06 32.0
AUG 1	
H-16 02 26.3	
33.1N 115.9W	
h ABOUT 16KM	
BCN E(P)	16 03 22.2
EL	04 07.0
AUG 1	
BRW EP	16 12 09.0
E	12 20.7
AUG 1	
H-16 41 05.0	
52.8N 153.4E	
h ABOUT 445KM	
BRW IP	16 46 31.8
EpP	47 53.6
EPCP	49 39.0
ESCP	52 27.3
COL IP	16 46 57.7
ALQ IP	16 48 44.6
I	51 31.4
HHM EP	16 50 02.0
I	50 57.5
BOZ IP D	16 50 24.0
F	51 15.0
E	52 50.5
EUR IP	16 50 38.5
RCD EP	16 50 57.5

Date and Station	Phase (GCT)
	h m s
AUG 1	
BRW EP	17 11 37.7
AUG 1	
ALQ EP	17 41 34.0
AUG 1	
H-18 06 26.8	
33.1N 115.9W	
h ABOUT 16KM	
BCN E(P)	18 07 23.5
FL	08 07.0
EUR EP	18 08 03.3
COL EP	18 13 37.2
AUG 1	
H-18 19 20.1	
11.3S 164.4E	
h ABOUT 33KM	
COL EP	18 31 50.0
AUG 1	
H-18 53 50.0	
13.7N 145.6E	
h ABOUT 33KM	
GUA IP	18 54 03.3
ES	54 14.0
BRW EP	19 04 42.0
COL EP	19 04 45.0
AUG 1	
BHP E(P)	19 16 09.0
AUG 1	
COL IP	19 26 53.2
AUG 1	
H-19 28 04.4	
24.7S 176.9W	
h ABOUT 92KM	
BCN EP	19 40 27.5
ALQ EP	19 40 52.5
EPP	41 17.0
BUT E(P)	19 41 00.0
COL IP	19 41 02.6
AUG 1	
COL EP	19 55 42.5
AUG 1	
H-20 09 17.3	
32.7N 093.1E	
h ABOUT 25KM	
COL IP	20 20 39.2
AUG 1	
H-20 34 16.8	
13.5S 165.8E	
h ABOUT 13KM	
COL IP	20 46 55.6

Date and Station	Phase (GCT)
	h m s
BCN EP	20 47 16.0
E	47 25.4
E	47 55.5
EUR IP	20 47 16.5
TUC EP	20 47 25.9
AUG 23	
HHM EP	20 47 33.3
ALQ EP	20 47 44.0
E	47 55.0
SJG EP'	20 53 26.7
AUG 1	
SLC EP	21 36 33.5
EUR EP	21 37 17.0
AUG 1	
COL EP	21 47 23.0
AUG 1	
EUR IP	22 04 16.8
AUG 1	
SLC EP	22 07 10.8
AUG 1	
H-22 13 44.5	
15.4S 167.6E	
h ABOUT 125KM	
COL EP	22 26 14.0
EUR E(P)	22 26 30.7
AUG 1	
COL EP	22 45 52.0
AUG 1	
SLC EP	22 52 09.6
AUG 1	
H-22 50 47.1	
21.5S 169.2E	
h ABOUT 33KM	
EUR EP	23 03 53.9
AUG 1	
H-23 44 28.2	
32.5S 178.9W	
h ABOUT 45KM	
KIP IP	23 54 07.8
GUA EP	23 54 11.5
HON E(P)	23 54 13.0
BCN EP	23 57 29.0
TUC IP C	23 57 30.2
E	57 43.0
EUR IP	23 57 35.0
ALQ E(P)	23 57 48.6
COL EP	23 58 07.0
SJG EP'	24 03 10.8

Date and Station	Phase (GCT)
	h m s
AUG 1	
TUC E(P)	23 46 41.5
AUG 2	
H-00 23 30.5	
44.8N 178.4W	
h ABOUT 33KM	
AUG 23	
EUR E(P)	00 26 04.0
AUG 2	
TUC E(P)	01 09 41.8
AUG 2	
H-01 12 33.8	
32.9N 141.7E	
h ABOUT 43KM	
COL E(P)	01 21 44.0
BOZ EP	01 24 26.0
AUG 2	
EUR EP	01 42 11.8
AUG 2	
COL EP	02 19 32.5
AUG 2	
H-03 10 31.7	
52.3N 170.8W	
h ABOUT 33KM	
COL EP	03 14 30.0
EUR E(P)	03 18 00.0
AUG 2	
COL E(P)	03 16 36.0
AUG 2	
BOZ IP	03 26 04.0
IL	26 11.0
BUT IP	03 26 14.4
IL	26 25.4
AUG 2	
COL EP	03 30 48.0
AUG 2	
H-04 56 18.5	
14.3N 053.9E	
h ABOUT 33KM	
EUR EP'	05 15 19.3
AUG 2	
COL E(P)	05 02 19.0
AUG 2	
H-07 26 59.6	
59.6N 145.5W	
h ABOUT 43KM	
COL IP	07 28 20.5
BOZ E(P)	07 32 17.0
EUR EP	07 32 43.0
AUG 2	
KIP EP	08 15 35.3

Date and Station	Phase (GCT)
	h m s
AUG 2	
COL EP	08 29 56.0
AUG 2	
H-08 45 29.7	
62.0N 156.9W	
h ABOUT 33KM	
COL IP	08 46 44.6
AUG 2	
COL IP	10 18 25.0
AUG 2	
BOZ E(P)	10 25 06.0
E	25 12.5
AUG 2	
H-13 19 55.9	
56.2S 157.9E	
h ABOUT 33KM	
GUA E(P)	13 31 08.0
HON EP	13 32 35.2
IS	43 16.0
ESS	48 16.0
EL	54 32.0
KIP IP	13 32 36.2
ES	43 15.0
EL	54 40.0
BOZ E(P)	13 36 12.0
EP'	38 55.0
EPP	40 51.0
BCN EP'	13 38 40.2
EPP	40 00.8
EPKKP	49 16.0
ESKKP	52 33.0
EL	14 13 25.0
TUC EP'	13 38 40.3
ALQ EP'	13 38 44.2
EUR IP'	13 38 44.8
COL EP'	13 38 57.0
EPP	03 40 57.8
E(S)	48 38.0
ESKKP	52 22.1
COL IP'	13 38 57.4
BUT EP'	13 38 57.8
EPP	40 56.8
HHM EP'	13 38 59.3
FPP	41 01.6
E	43 53.6
E	14 03 10.0
SIT EP'	13 39 00.5
SJG EP'	13 39 04.5
ESKP	42 32.0
E	42 44.0
RCD EP'	13 39 06.0
WAS EP'	13 39 12.0

Date and Station	Phase (GCT)
	h m s
CSC EP'	13 39 14.0
WSC EP'	13 39 20.4
E	39 32.0
EPP	41 23.0
AUG 2	
EUR E(P)	14 18 00.0
AUG 2	
H-14 34 21.4	
7.4N 078.7W	
h ABOUT 20KM	
BHP IP	14 34 51.4
SJG EP C	14 38 07.7
I	38 14.0
ES	40 57.2
CSC EP	14 40 02.0
ALQ IP	14 41 35.6
I	42 22.7
TUC EP C	14 41 47.7
RCD EP	14 42 15.0
BCN EP	14 42 27.4
EUR IP	14 42 48.0
BOZ IP	14 42 56.8
BUT E(P)	14 43 03.3
FPP	45 00.8
HHM EP	14 43 21.6
COL IP	14 45 59.8
I	47 46.2
AUG 2	
H-14 36 12.5	
7.5N 78.4W	
h ABOUT 57KM	
SJG EP	14 39 54.5
I	40 01.5
ES	42 45.5
CSC E(P)	14 41 53.0
ALQ EP	14 43 23.0
TUC EP	14 43 35.0
BCN EP	14 44 14.6
BOZ EP	14 44 45.0
COL E(P)	14 47 46.2
AUG 2	
BHP IP	14 43 24.0
IS	43 53.0
AUG 2	
H-15 08 07.2	
7.4N 078.6W	
h ABOUT 26KM	
BHP IP	15 08 37.5
ALQ IP	15 15 21.4
EUR IP	15 16 33.9
BOZ EP	15 16 43.2
AUG 2	
BHP IP C	15 11 25.0
AUG 2	
H-15 26 16.6	
09.1N 080.0W	
h ABOUT 37KM	
BHP IP C	15 26 27.0
ALQ IP	15 33 11.0
BOZ EP	15 34 32.5
AUG 2	
BHP IP	15 36 12.0
AUG 2	
SLC E(P)	15 38 32.8
E	38 57.8
AUG 2	
BUT EP	16 16 36.7
AUG 2	
H-16 43 11.7	
7.4N 078.7W	
h ABOUT 17KM	
BHP IP	16 43 42.0
SJG P	16 46 59.0
CSC EP	16 48 51.0
ES	53 32.0
WAS E(P)	16 49 16.0
PHI EP	16 49 48.6
ALQ IP	16 50 26.5
TUC IP C	16 50 38.2
RCD EP	16 51 06.5
BCN EP	16 51 18.4
EUR IP	16 51 38.7
BOZ IP C	16 51 48.0
I	52 13.2
IPCP	53 20.0
BUT EP	16 51 53.3
HHM EP	16 52 11.6
COL IP	16 54 50.5
AUG 2	
BHP IP	17 01 41.8
AUG 2	
H-17 49 48.5	
32.8N 093.2E	
h ABOUT 47KM	
COL IP	18 01 07.2
AUG 2	
BHP IP	17 51 06.0
IS	51 29.5
AUG 2	
H-18 04 56.9	
7.6N 078.6W	
h ABOUT 33KM	
BHP IP	18 05 24.0
SJG EP	18 08 41.3
I	08 47.2
ES	11 40.0
ALQ IP	18 12 09.2
TUC EP	18 12 20.5
BCN EP	18 13 00.0
E	13 44.2
EUR IP	18 13 21.2
BOZ IP	18 13 30.5
I	13 33.0
COL IP	18 16 33.3
AUG 2	
BHP IP	18 19 06.8
AUG 2	
BHP IP	18 21 58.0
AUG 2	
BHP IP	18 34 47.5
EUR EP	18 38 37.0
AUG 2	
H-18 44 21.2	
07.6N 078.5W	
h ABOUT 21KM	
BHP IP	18 44 49.7
SJG EP	18 48 07.4
I	48 11.7
ES	50 57.0
ALQ IP	18 51 34.6
TUC EP	18 51 46.1
BCN EP	18 52 26.5
BOZ IP D	18 52 56.5
COL IP	18 55 59.5
AUG 2	
BHP IP	18 49 31.5
AUG 2	
H-19 07 57.4	
07.4N 078.8W	
h ABOUT 34KM	
BHP IP	19 08 24.3
SJG E(P)	19 11 39.5
I	11 46.0
FS	14 27.0
CSC EP	19 13 33.0
WSC EP	19 14 18.8
E	14 25.5
ALQ IP	19 15 09.6
TUC EP	19 15 20.5
ES	21 17.0
RCD EP	19 15 49.0
BCN EP	19 16 01.5
SLC EP	19 16 08.0
EUR IP	19 16 21.8
BOZ IP C	19 16 31.0
HHM EP	19 16 53.6
COL IP	19 19 33.5
AUG 2	
H-19 17 51.6	
08.6N 078.4W	
h ABOUT 44KM	
BHP IP	19 18 12.0
SJG EP	19 21 25.0
ES	24 16.0
ALQ IP	19 24 56.5
TUC E(P)	19 25 08.0
BOZ EP	19 26 18.5
AUG 2	
BHP IP	19 22 45.7
AUG 2	
H-19 38 33.3	
42.5N 143.0E	
h ABOUT 32KM	
BOZ EP	19 49 43.5
E	50 02.5
AUG 2	
SJG EP	19 49 00.5
EL	49 54.5
AUG 2	
BHP IP	20 37 26.3
IS	37 49.5
AUG 2	
H-20 43 29.2	
7.5N 078.5W	
h ABOUT 24KM	
BHP I(P)	20 43 47.0
SJG EP	20 47 12.8
ES	50 02.0
ALQ IP	20 50 42.4

Date and Station	Phase	(GCT) h m s
TUC	E(P)	20 50 53.0
BCN	EP	20 51 34.0
EUR	IP	20 51 55.5
BOZ	EP	20 52 06.5
	I	52 10.0
HHM	E(P)	20 52 29.5
COL	EP	20 55 09.0
AUG 2		
SJG	EP	21 06 13.0
AUG 2		
EUR	EP	21 42 44.8
COL	IP	21 44 17.0
AUG 2		
BCN	IP D	21 45 25.7
	IS	45 28.1
AUG 2		
BHP	IP	21 45 29.8
	IS	45 57.0
AUG 2		
BHP	IP	21 50 49.0
	IS	51 11.2
AUG 2		
COL	EP	22 10 11.0
AUG 2		
EUR	E(P)	22 25 19.8
AUG 2		
SJG	E(P)	22 34 35.0
	E	34 56.0
AUG 2		
SLC	EP	22 35 48.2
EUR	EP	22 36 31.8
AUG 2		
COL	EP	22 44 17.0
AUG 2		
H-22 48 00.8		
19.0S 169.1E		
h ABOUT 151KM		
COL	EP	23 00 41.0
TUC	EP	23 00 55.3
AUG 2		
COL	EP	23 08 26.0
AUG 2		
COL	EP	23 24 16.0
AUG 2		
H-23 25 01.7		
53.2N 173.3W		
h ABOUT 33KM		
COL	IP	23 29 03.8
BOZ	EP	23 32 32.0
EUR	EP	23 32 43.8
AUG 3		
EUR	EP	00 10 36.3
AUG 3		
ALQ	IP	01 19 30.0
	I	20 48.2
AUG 3		
H-01 24 59.0		
52.4N 172.2E		
h ABOUT 44KM		
COL	IP	01 30 08.0
BOZ	EP	01 33 37.0
EUR	IP	01 33 48.2
AUG 3		
ALQ	IP	01 25 21.8
TUC	E(P)	01 26 26.9
AUG 3		
H-02 01 52.2		
07.4S 081.3W		
h ABOUT 33KM		
BHP	EP	02 05 44.0
SJG	IP	02 07 56.0
	ES	12 52.0
CSC	IP D	02 09 35.0
	E	09 47.5
	EPCP	11 34.0
WAS	E(P)	02 10 13.0
WSC	EP	02 10 17.2
	EPCP	11 51.9
ALQ	IP	02 10 33.4
TUC	IP D	02 10 33.8
	ES	17 36.0
GCA	IP	02 11 04.7
BCN	IP D	02 11 12.4
RCD	IP	02 11 22.0
	E	11 32.2
SLC	IP	02 11 27.5
EUR	IP	02 11 34.4
BOZ	IP D	02 11 53.0
	ES	20 06.0
	ESS	24 07.0
BUT	IP D	02 11 58.9
	IPCP	12 44.5
HHM	EP	02 12 14.9
KIP	E(P)	02 14 03.4
COL	IP	02 14 35.2
	IPP	18 00.0
AUG 3		
ALQ	E(P)	02 04 51.0
EUR	E(P)	02 05 51.0
AUG 3		
BOZ	E(P)	02 41 09.0
AUG 3		
EUR	IP	03 38 34.2
AUG 3		
COL	EP	03 44 10.0
AUG 3		
BHP	IP	04 25 16.5
	IS	25 40.0
AUG 3		
COL	IP	06 33 15.9
AUG 3		
BUT	IP	06 36 45.8
	I	37 09.4
BOZ	IP	06 36 48.5
	IL	37 17.0
EUR	EP	06 37 42.5
AUG 3		
BOZ	EP	06 53 50.0
	E	53 57.0
AUG 3		
H-07 02 35.3		
36.2N 069.4E		
h ABOUT 37KM		
COL	IP	07 14 15.0
AUG 3		
H-07 35 21.9		
33.3N 091.1E		
h ABOUT 41KM		
COL	IP	07 46 42.5
AUG 3		
BUT	EP	07 40 01.4
	EL	40 15.4
HHM	E(P)	07 40 05.4
	I	40 10.9
	IL	40 32.9
AUG 3		
COL	EP	08 18 57.0
AUG 3		
H-08 30 44.3		
34.4N 139.1E		
h ABOUT 37KM		
COL	IP	08 39 54.5
HHM	EP	08 42 23.4
BUT	EP	08 42 36.4
BOZ	EP	08 42 40.5
EUR	IP	08 42 46.5
TUC	E(P)	08 43 26.0
AUG 3		
H-08 31 30.6		
45.0N 112.0W		
h ABOUT 19KM		
BOZ	IP	08 31 44.0
	IL	31 55.0
BZM	EP	08 31 48.0
BUT	EP	08 31 54.9
	IL	32 12.4
EUR	EP	08 33 03.0
AUG 3		
H-08 36 36.2		
34.7N 138.7E		
h ABOUT 88KM		
COL	EP	08 45 40.0
EUR	IP	08 48 32.9
AUG 3		
H-09 13 48.9		
56.6N 159.7W		
h ABOUT 47KM		
COL	IP	09 16 13.5
EUR	IP	09 20 24.0
RCD	EP	09 20 57.0
TUC	E(P)	09 21 31.0
ALQ	IP	09 21 34.4
	IPCP	23 32.2
AUG 3		
EUR	E(P)	09 23 06.1
AUG 3		
H-09 36 38.5		
21.3S 179.2W		
h ABOUT 593KM		
COL	IP	09 48 32.2
AUG 3		
BCN	E(P)	11 47 24.0
	E	47 29.5
	EL	47 59.0
EUR	IP	11 47 34.7
AUG 3		
H-13 50 03.1		
35.1N 139.2E		
h ABOUT 98KM		
COL	IP	13 59 02.9
HHM	EP	14 01 32.4
BOZ	EP	14 01 48.6
EUR	IP	14 01 55.1

Date and Station	Phase (GCT)
	h m s
AUG 3	
H-14 41 55.4	
15.9S 172.6W	
h ABOUT 33KM	
TUC E(P)	14 53 42.5
EUR IP	14 53 43.8
BOZ EP	14 54 16.5
COL IP	14 54 16.9
AUG 3	
COL IP	14 47 17.0
AUG 3	
COL E(P)	14 49 26.0
AUG 3	
COL IP	15 14 31.5
AUG 3	
H-15 22 59.3	
18.7N 106.1W	
h ABOUT 33KM	
TUC E(P)	15 26 19.0
EUR IP	15 27 56.1
BOZ E(P)	15 28 44.0
AUG 3	
COL EP	15 26 19.0
AUG 3	
COL IP	15 36 02.3
AUG 3	
H-15 41 33.6	
34.7N 139.7E	
h ABOUT 33KM	
COL EP	15 50 40.0
AUG 3	
EUR IP	16 56 35.1
AUG 3	
EUR IP	17 07 04.0
AUG 3	
EUR IP	17 07 48.0
IL	08 19.2
BCN E(P)	17 08 05.0
E	08 15.0
EL	09 04.0
AUG 3	
KIP E(P)	17 28 51.4
AUG 3	
EUR EP	17 56 08.1
AUG 3	
H-18 00 32.7	
15.5S 167.5E	
h ABOUT 128KM	
COL IP	18 13 03.3
EUR IP	18 13 18.0
SJG EP'	18 19 26.5
AUG 3	
TUC E(P)	18 13 56.3
AUG 3	
H-19 56 13.2	
07.8N 078.4W	
h ABOUT 33KM	
SJG EP	19 59 55.0
I	20 00 13.5
IS	02 53.2
ALQ IP	20 03 24.4
TUC E(P)	20 03 36.0
GCA EP	20 03 59.5
BCN EP	20 04 16.5
SLC EP	20 04 24.2
EUR IP	20 04 36.8
BOZ EP	20 04 46.5
HHM EP	20 05 06.3
COL EP	20 07 45.0
AUG 3	
SIT E(P)	21 25 11.3
COL EP	21 26 36.0
AUG 3	
KIP EP	21 25 55.0
COL P	21 28 16.8
AUG 3	
COL EP	21 55 22.0
AUG 3	
SLC EP	22 05 30.8
AUG 3	
BHP IP	22 29 47.8
IS	30 12.0
AUG 3	
BHP IP	22 34 35.0
IS	34 59.0
AUG 3	
SLC EP	22 43 16.4
AUG 4	
BHP IP	00 22 47.4
IS	23 11.0
AUG 4	
H-01 05 50.4	
16.8N 094.4W	
h ABOUT 91KM	
CSC E(P)	01 10 24.0
E	10 34.0
E▸P	10 49.0
ES	14 19.0
ALQ IP	01 10 29.2
E	11 02.6
E	11 25.5
TUC EP	01 10 33.0
E(S)	14 28.0
GCA EP	01 11 10.2
BCN IP D	01 11 20.7
E▸P	11 42.5
E▸P	11 53.2
EUR IP	01 11 47.0
I▸P	12 09.5
I▸P	12 20.0
SJG EP	01 11 47.7
E	12 16.0
EPP	12 38.9
EPCP	15 10.5
E	18 53.0
RCD E(P)	01 11 58.5
BOZ IP D	01 12 11.0
E▸P	12 34.5
BUT EP	01 12 16.7
E▸P	12 38.2
HHM EP	01 12 37.8
E▸P	13 00.8
COL IP	01 15 45.6
AUG 4	
COL IP	01 14 38.8
AUG 4	
KIP EP	01 31 24.0
HON EP	01 31 24.0
AUG 4	
SJG E(P)	02 20 20.8
AUG 4	
COL IP	03 05 00.8
AUG 4	
COL EP	03 52 19.0
AUG 4	
H-04 34 39.6	
7.9N 078.5W	
h ABOUT 23KM	
BHP IP	04 35 05.0
ALQ IP	04 41 50.4
BOZ EP	04 43 12.0
AUG 4	
COL EP	05 23 59.0
EUR EP	05 27 22.1
AUG 4	
COL EP	05 39 06.0
AUG 4	
COL EP	05 53 54.0
AUG 4	
BHP IP	06 03 23.3
BOZ E(P)	06 09 25.0
E	09 38.2
AUG 4	
COL IP	06 23 09.4
AUG 4	
BOZ E(P)	06 33 17.0
E	33 34.5
AUG 4	
TUC E(P)	08 03 55.5
HHM EP	08 06 07.8
AUG 4	
H-08 47 09.4	
13.2S 167.0E	
h ABOUT 209KM	
KIP E(P)	08 56 18.9
COL IP	08 59 21.8
I(▸P)	09 00 09.0
I(▸P)	00 40.2
BRW IP	08 59 39.1
I(▸P)	09 00 23.6
EUR IP	08 59 40.3
I(▸P)	09 00 28.0
BCN EP	08 59 40.5
E(▸P)	09 00 26.0
TUC E(P)	08 59 49.0
E(▸P)	09 00 37.0
BOZ EP	09 00 02.0
E(▸P)	00 49.0
ALQ E(P)	09 00 08.4
GCA E	09 00 41.2
SLC E	09 00 42.5
HHM E	09 00 44.8
BUT E	09 00 46.7
AUG 4	
BOZ EP	09 16 23.0
E	17 09.0
COL EP	09 16 47.0
E	17 27.5
AUG 4	
EUR I	09 22 50.5
AUG 4	
H-09 38 44.0	
14.9S 166.9E	
h ABOUT 59KM	
COL IP	09 51 21.2
AUG 4	
COL EP	11 29 56.0

Date and Station	Phase (GCT)
	h m s
AUG 4	
BRW E(P)	11 31 49.8
AUG 4	
H-11 49 55.8	
44.0N 012.2E	
h ABOUT 25KM	
HHM EP	12 01 45.4
BOZ EP	12 01 53.5
ALQ IP	12 02 24.4
TUC E(P)	12 02 44.5
AUG 4	
H-12 41 47.1	
5.7S 130.6E	
h ABOUT 74KM	
COL EP	12 54 45.0
AUG 4	
COL IP	12 49 45.4
AUG 4	
SJG EP'	13 02 37.2
E	02 53.0
AUG 4	
COL EP	15 09 28.0
AUG 4	
H-16 18 16.8	
51.1N 171.7W	
h ABOUT 33KM	
COL IP	16 22 31.2
BRW IP	16 23 04.0
BOZ EP	16 25 44.0
EUR IP	16 25 50.5
AUG 4	
BRW EP	16 59 33.9
AUG 4	
H-17 03 33.1	
51.1N 171.7W	
h ABOUT 33KM	
COL EP	17 07 48.0
BRW IP	17 08 19.9
I	08 30.3
BOZ EP	17 11 00.0
EUR IP	17 11 06.6
ALQ IP	17 12 16.2
AUG 4	
COL IP	18 02 30.5
AUG 4	
GCA IP	18 18 11.6
AUG 4	
EUR EP	18 35 05.9
AUG 4	
SJG EP'	18 48 14.5
AUG 4	
COL IP	19 01 36.0
AUG 4	
EUR IP	19 32 32.1
AUG 4	
SIT E(P)	19 36 01.3
AUG 4	
COL EP	19 52 45.2
AUG 4	
H-20 11 11.5	
16.2N 098.9W	
h ABOUT 43KM	
TUC EP	20 15 35.2
ALQ IP	20 15 41.5
GCA E(P)	20 16 20.7
CSC E(P)	20 16 23.0
BCN EP	20 16 27.5
EUR EP	20 16 57.0
BOZ EP	20 17 30.5
COL EP	20 21 04.0
AUG 4	
EUR IP	21 06 03.5
AUG 4	
KIP EP	21 36 16.4
AUG 4	
EUR IP	21 56 59.5
AUG 4	
COL EP	22 23 16.0
AUG 4	
BRW E(P)	23 10 04.1
F	10 56.5
AUG 4	
BRW E(P)	23 13 56.4
AUG 4	
COL IP	23 31 14.3
EUR E(P)	23 34 18.5
AUG 5	
BCD EP	00 06 39.0
E	06 45.0
EUR EP	00 07 05.1
AUG 5	
H-00 07 50.9	
05.2S 151.6E	
h ABOUT 50KM	
GUA IP	00 12 21.0
HON EP	00 17 26.0
ES	25 12.0
EL	31 07.0
KIP IP	00 17 27.4
ES	25 11.0
EL	33 10.0
COL IP	00 20 07.2
ES	30 20.0
BRW EP	00 20 18.5
I	20 52.8
SIT E(P)	00 20 23.0
E	30 44.0
UKI E(P)	00 20 45.0
EUR IP	00 21 08.2
IPKKP	38 04.3
IP'P'	46 09.7
BCN EP	00 21 14.0
EpP	21 29.0
EsP	21 35.5
IPP	25 05.4
EPKKP	38 36.5
P'P'	46 16.5
HHM EP	00 21 16.4
EpP	21 30.4
EPKKP	37 28.4
EP'P'	46 14.4
BUT EP	00 21 22.0
EPP	25 15.0
EP'P'	46 20.0
GCA E(P)	00 21 27.0
TUC E(P)	00 21 31.0
EPP	25 30.4
EPKKP	37 36.0
EP'P'	46 13.8
ALQ E(P)	00 21 43.5
EPKKP	38 06.0
BCD E(P)	00 21 53.0
CSC EP'	00 26 43.0
EPP	28 25.0
EPKKP	36 35.0
WSC EP'	00 26 46.0
WAS IP'	00 26 49.0
EpP	27 04.0
EPP	28 31.0
EKKP	39 59.0
SJG IP'	00 27 11.6
I	27 19.6
AUG 5	
ALQ IP	01 19 03.4
AUG 5	
EUR IP	02 31 00.0
AUG 5	
BOZ IP	03 30 33.0
IL	30 47.5
BUT EP	03 30 35.0
IL	30 53.0
BZM F	03 30 40.0
EUR IP	03 32 01.0
AUG 5	
BUT E(P)	03 52 28.0
EL	52 44.0
AUG 5	
BOZ FP	04 48 14.0
AUG 5	
COL FP	06 46 29.7
AUG 5	
SJG EP	08 29 20.0
FL	30 02.0
AUG 5	
BCN IP D	08 31 26.5
IS	31 29.5
AUG 5	
SJG FP	08 41 03.5
IL	41 47.4
AUG 5	
SJG EP	09 04 51.0
IL	05 35.0
AUG 5	
COL EP	09 44 55.0
EUR FP	09 48 22.1
AUG 5	
COL FP	09 52 55.0
AUG 5	
BRW FP	10 46 51.2
AUG 5	
H-11 02 21.2	
15.1S 176.9W	
h ABOUT 388KM	
EUR IP	11 13 42.8
TUC FP	11 13 45.0
COL IP	11 14 02.8
BOZ EP	11 14 12.5
AUG 5	
H-11 16 06.5	
21.3S 067.3W	
h ABOUT 197KM	
SJG FP	11 23 14.0
EUR E(P)	11 27 32.8
AUG 5	
COL IP	12 27 50.6
AUG 5	
COL IP	13 48 40.5

Date and Station	Phase (GCT)
	h m s
AUG 5	
H-14 31 00.9	
53.1N 178.9E	
h ABOUT 33KM	
BRW E(P)	14 35 32.1
COL IP	14 35 38.2
EUR EP	14 39 17.2
AUG 5	
COL IP	14 57 31.6
AUG 5	
COL IP	15 07 20.8
AUG 5	
COL EP	15 54 24.0
AUG 5	
COL I(P)	16 18 11.4
AUG 5	
EUR EP	16 59 51.9
AUG 5	
EUR IP	17 01 29.2
AUG 5	
TUC E(P)	17 23 36.0
E(L)	24 52.5
AUG 5	
ALQ E(P)	17 25 24.5
AUG 5	
COL EP	18 00 27.0
AUG 5	
TUC E(P)	18 05 38.5
E(L)	06 53.5
ALQ E(P)	18 06 54.2
AUG 5	
BCN E(P)	18 09 17.5
AUG 5	
EUR EP	18 42 09.8
AUG 5	
BRW E(P)	19 02 37.7
AUG 5	
H-19 05 07.7	
14.8N 091.0W	
h ABOUT 59KM	
ALQ IP	19 10 24.5
TUC E(P)	19 10 27.5
EUR EP	19 11 40.8
BOZ EP	19 12 02.0
AUG 5	
HHM E(P)	19 45 29.6
FL	46 03.6

Date and Station	Phase (GCT)
	h m s
AUG 5	
H-19 49 47.8	
07.7S 068.1E	
h ABOUT 33KM	
EUR IP'	20 09 32.8
ALQ IP'	20 09 42.6
TUC EP'	20 09 45.0
BCN EP'	20 09 46.5
AUG 5	
ALQ IP	20 08 39.0
AUG 5	
BRW EP	22 01 12.9
AUG 5	
KIP E(P)	22 58 16.4
EUR IP	23 02 28.1
AUG 5	
EUR EP	23 31 23.0
AUG 6	
EUR EP	00 40 43.6
AUG 6	
EUR EP	01 38 22.2
AUG 6	
BRW E(P)	01 48 19.7
AUG 6	
H-01 58 37.0	
0.4S 019.6W	
h ABOUT 8KM	
SJG EP	02 07 25.5
WSC E(P)	02 09 24.0
E	10 22.9
CSC EP	02 09 32.0
ALQ IP	02 11 28.6
TUC E(P)	02 11 45.0
E	11 51.5
BOZ EP	02 11 47.5
EUR IP	02 12 04.0
AUG 6	
BOZ EP	02 01 38.0
IL	02 14.5
BUT E(P)	02 01 39.9
I	02 09.9
EUR EP	02 02 14.6
AUG 6	
BRW E(P)	02 16 11.9
AUG 6	
COL EP	03 25 22.0
AUG 6	
EUR E(P)	04 26 29.8

Date and Station	Phase (GCT)
	h m s
AUG 6	
COL IP	05 11 49.7
AUG 6	
TUC E(P)	05 53 45.1
AUG 6	
COL E(P)	06 04 45.5
AUG 6	
GUA IP	06 10 57.0
E	11 18.0
AUG 6	
BRW EP	06 53 23.2
AUG 6	
BOZ IP	07 29 37.0
ES	29 50.0
AUG 6	
EUR EP	08 09 23.0
AUG 6	
COL EP	08 17 07.5
AUG 6	
EUR EP	09 39 02.0
AUG 6	
H-10 43 39.2	
33.6N 138.0E	
h ABOUT 336KM	
COL EP	10 52 27.0
EUR EP	10 55 14.4
AUG 6	
KIP EP	11 23 22.4
COL EP	11 24 49.7
AUG 6	
H-11 44 47.9	
51.6N 173.5W	
h ABOUT 40KM	
COL EP	11 49 05.9
EUR IP	11 52 29.2
AUG 6	
H-12 16 07.9	
18.5S 169.2E	
h ABOUT 33KM	
EUR IP	12 29 07.9
TUC EP	12 29 14.0
BOZ E(P)	12 29 35.0
AUG 6	
H-12 46 18.8	
61.9N 148.2W	
h ABOUT 33KM	
COL IP	12 47 05.3
AUG 6	
COL IP	13 29 18.8

Date and Station	Phase (GCT)
	h m s
AUG 6	
EUR IP	13 55 39.8
AUG 6	
COL EP	14 11 38.0
AUG 6	
COL EP	15 19 51.0
AUG 6	
H-15 39 49.2	
44.7N 109.8W	
h ABOUT 33KM	
BOZ EP	15 40 12.7
I	40 13.8
IL	41 05.3
BUT EP	15 40 26.8
EL	40 50.8
HHM EP	15 41 00.0
IPG	41 11.8
IL	42 20.0
RCD E(P)	15 41 08.0
EUR E(P)	15 41 34.2
AUG 6	
H-17 23 29.3	
37.0N 116.0W	
h ABOUT 0KM	
EUR IP	17 24 11.8
GCA EP	17 24 29.0
I	24 34.8
TUC EP	17 25 05.5
E(L)	26 52.5
ALQ IP	17 25 29.5
E	25 58.8
FL	27 47.5
BUT E(P)	17 25 35.8
EL	28 21.8
BOZ EP	17 25 49.0
EL	28 21.5
HHM E(P)	17 26 17.8
COL EP	17 30 12.0
AUG 6	
COL EP	17 39 24.0
AUG 6	
EUR IP	17 52 58.5
AUG 6	
EUR IP	17 59 14.0
GCA IP	17 59 33.8
SLC EP	18 00 13.2
TUC E(P)	18 00 18.0
ALQ E(P)	18 01 03.2

Date and Station	Phase	Phase (GCT) h m s
AUG 6		
H-18 18 11.3		
41.5N 131.2E		
h ABOUT 553KM		
BRW	IP	18 22 43.9
	I	22 59.2
	EPP	24 26.3
	IPP	24 39.6
COL	IP	18 23 14.2
SIT	E(P)	18 24 14.5
HHM	IP	18 25 49.3
BOZ	IP	18 26 08.0
	EPP	28 08.0
EUR	IP	18 26 19.5
RCD	EP	18 26 34.0
	F	26 37.5
TUC	EP	18 27 00.3
ALQ	IP	18 27 02.0
AUG 6		
COL	EP	18 42 05.0
AUG 6		
BOZ	EP	19 40 18.5
	IL	40 38.0
AUG 6		
H-21 56 16.0		
22.2S 170.3E		
h ABOUT 17KM		
SJG	EP'	22 15 20.9
AUG 6		
SLC	EP	22 01 35.6
AUG 6		
BOZ	IP	22 35 54.5
	IL	36 12.0
BUT	EP	22 35 56.8
	IL	36 13.7
AUG 7		
BUT	E(P)	00 00 47.8
AUG 7		
H-01 21 07.4		
50.1N 171.9W		
h ABOUT 33KM		
COL	E(P)	01 25 34.2
EUR	IP	01 28 42.2
AUG 7		
SJG	EP	03 13 55.5
	IS	14 43.5
	IL	15 00.0
AUG 7		
KIP	E(P)	03 41 34.0

Date and Station	Phase	Phase (GCT) h m s
AUG 7		
H-05 26 07.4		
09.2S 079.7W		
h ABOUT 33KM		
EUR	EP	05 36 05.8
	EPP	36 27.8
AUG 7		
EUR	IP	05 48 09.2
AUG 7		
COL	IP	05 55 45.6
BOZ	E(P)	06 00 29.5
AUG 7		
COL	EP	06 29 12.8
AUG 7		
TUC	E(P)	06 38 38.0
AUG 7		
H-06 48 07.3		
51.2N 174.5E		
h ABOUT 18KM		
COL	EP	06 53 20.0
HHM	EP	06 56 20.6
	E	58 04.6
BOZ	IP D	06 56 42.5
	I	56 55.0
	I	57 04.6
EUR	IP	06 56 52.2
	I	57 04.3
RCD	E(P)	06 57 25.5
	F	57 39.0
BCN	E(P)	06 57 28.5
	F	57 39.2
TUC	E(P)	06 57 49.4
ALQ	IP	06 57 56.0
AUG 7		
UKI	E(P)	07 34 44.2
EUR	EP	07 35 09.3
AUG 7		
SJG	IP	07 44 14.5
	IS	44 31.8
AUG 7		
COL	EP	07 45 54.0
AUG 7		
UKI	E(P)	08 04 24.0
AUG 7		
H-08 30 36.2		
45.1N 112.3W		
h ABOUT 33KM		
BOZ	IP	08 30 51.2
	IL	31 04.6
BUT	E(P)	08 30 52.4
	IL	31 11.3

Date and Station	Phase	Phase (GCT) h m s
HHM	E(P)	08 31 31.0
	I	31 44.3
EUR	EP	08 32 10.4
AUG 7		
BOZ	IP	09 04 55.5
	IL	05 10.5
BUT	EP	09 04 58.7
	IL	04 15.7
AUG 7		
BRW	EP	09 34 21.7
AUG 7		
BCN	IP D	09 55 48.3
	IS	55 50.5
AUG 7		
COL	EP	10 22 42.5
	E	22 57.6
AUG 7		
H-11 18 36.7		
31.5S 178.0W		
h ABOUT 33KM		
BCN	EP	11 31 32.5
TUC	EP	11 31 33.9
EUR	IP	11 31 39.0
AUG 7		
H-11 32 43.2		
37.4N 072.1E		
h ABOUT 219KM		
COL	EP	11 43 53.0
AUG 7		
H-12 06 04.1		
29.5S 175.7W		
h ABOUT 33KM		
TUC	E(P)	12 18 46.9
AUG 7		
RCD	E(P)	12 25 31.0
AUG 7		
H-12 39 55.7		
09.4S 124.3E		
h ABOUT 33KM		
EUR	EP'	12 58 45.0
AUG 7		
H-13 26 21.0		
06.8N 126.8E		
h ABOUT 81KM		
COL	EP	13 38 33.0
SJG	EP'	13 46 10.5
AUG 7		
COL	EP	14 01 54.0
AUG 7		
PHP	IP	14 03 22.0
	IS	03 44.8

Date and Station	Phase	Phase (GCT) h m s
AUG 7		
H-14 06 03.0		
06.8N 126.9E		
h ABOUT 76KM		
COL	EP	14 18 16.0
AUG 7		
HHM	EP	14 38 35.9
AUG 7		
EUR	EP	15 17 10.3
AUG 7		
COL	EP	15 59 04.7
AUG 7		
H-16 10 10.3		
20.9N 121.5E		
h ABOUT 39KM		
COL	EP	16 21 29.0
AUG 7		
BCN	E(P)	16 34 51.0
	EL	35 26.5
EUR	EP	16 35 11.5
AUG 7		
EUR	IP	16 40 35.0
AUG 7		
BHP	IP	16 55 22.6
AUG 7		
BOZ	EP	18 02 22.6
AUG 7		
TUC	E(P)	18 15 22.2
AUG 7		
EUR	E(P)	18 19 08.4
AUG 7		
SJG	EP	19 48 37.0
	IS	48 59.8
AUG 7		
BOZ	EP	20 05 17.5
AUG 7		
BUT	EP	20 24 23.7
	IL	24 40.2
AUG 7		
HON	E(P)	20 29 48.6
AUG 7		
H-21 14 43.6		
61.9N 151.0W		
h ABOUT 80KM		
COL	IP	21 15 35.2
BRW	IP	21 17 02.7
	E(S)	18 52.6
HHM	IP	21 20 00.0
BOZ	EP	21 20 26.5
	I	20 49.0
EUR	IP	21 20 54.7

Date and Station	Phase (GCT)
	h m s
BCN EP	21 21 25.4
ALQ IP	21 22 02.0
TUC EP	21 22 05.9
AUG 7	
SIT E(P)	22 52 00.6
AUG 7	
BHP IP	23 02 20.6
AUG 8	
H-00 25 27.1	
15.9S 167.2E	
h ABOUT 17KM	
COL EP	00 38 16.0
AUG 8	
COL EP	01 12 51.0
AUG 8	
BRW E(P)	02 26 37.5
COL EP	02 27 48.0
AUG 8	
COL IP	03 41 49.8
AUG 8	
BRW E(P)	03 44 25.1
AUG 8	
H-04 32 42.3	
6.7N 127.0E	
h ABOUT 73KM	
BRW IP	04 44 42.6
COL IP	04 44 55.3
AUG 8	
BOZ E(P)	05 07 19.0
AUG 8	
BRW EP	05 15 29.2
ALQ E(P)	05 21 02.6
AUG 8	
H-05 19 23.7	
52.5N 173.4E	
h ABOUT 17KM	
BRW EP	05 24 29.7
E	24 40.8
EPCP	28 18.0
COL EP	05 24 31.0
I	24 32.1
HON E(P)	05 26 40.4
KIP EP	05 26 43.7
HHM EP	05 27 37.9
BOZ IP	05 27 59.6
I	28 07.5
FUR IP	05 28 10.6

Date and Station	Phase (GCT)
	h m s
RCD IP D	05 28 42.5
E	28 50.5
TUC E(P)	05 29 09.6
E	29 17.5
AUG 8	
BRW EP	05 31 48.3
COL EP	05 32 12.0
AUG 8	
KIP EP	06 06 30.5
AUG 8	
H-06 31 59.9	
20.4S 068.7W	
h ABOUT 115KM	
SJG EP C	06 39 08.9
IS	44 49.5
TUC EP	06 42 37.6
GCA E(P)	06 43 00.5
I▸P	43 33.0
BCN EP	06 43 08.3
EUR IP	06 43 27.3
I▸P	43 57.6
BOZ EP	06 43 38.9
BUT E(P)	06 43 43.1
E▸P	44 14.6
HHM EP	06 43 55.9
GUA EP'	06 51 31.7
E▸P'	52 05.5
AUG 8	
H-06 32 28.2	
19.6S 068.7W	
h ABOUT 53KM	
BHP IP	06 38 33.5
CSC IP D	06 41 52.6
E▸P	42 07.0
ALQ IP	06 43 04.4
BCN EP	06 43 39.5
E▸P	43 53.5
SLC E(P)	06 43 49.8
EUR IP	06 43 57.6
BOZ IP	06 44 10.5
HHM IP	06 44 28.9
COL IP	06 46 21.6
AUG 8	
ALQ E(P)	06 37 06.0
AUG 8	
BRW E(P)	06 48 36.5

Date and Station	Phase (GCT)
	h m s
AUG 8	
BRW E(P)	06 55 22.5
AUG 8	
COL IP	07 35 05.5
AUG 8	
BRW EP	07 44 14.0
AUG 8	
H-09 46 28.9	
04.0N 128.5E	
h ABOUT 45KM	
GUA EP	09 50 45.0
ES	54 11.0
BRW IP	09 58 44.2
E▸P	58 56.0
COL EP	09 58 54.0
BOZ E(P)	10 00 40.0
EPP	05 10.5
BHP EP'	10 06 16.8
SJG EP'	10 06 35.5
AUG 8	
EUR EP	10 00 56.1
AUG 8	
COL E(P)	11 24 25.8
AUG 8	
H-11 28 21.9	
61.2N 149.3W	
h ABOUT 86KM	
COL IP	11 29 18.6
BRW E(P)	11 31 05.8
BOZ EP	11 33 56.0
E▸P	34 13.0
AUG 8	
COL P	11 45 18.0
AUG 8	
H-12 13 11.4	
20.2S 066.9W	
h ABOUT 245KM	
EUR IP	12 24 29.0
AUG 8	
COL EP	12 25 03.0
AUG 8	
H-12 49 23.4	
51.8N 175.2W	
h ABOUT 53KM	
COL EP	12 53 43.5
ES	57 29.0
I	57 33.8
E(SCP)	13 01 38.0
BRW EP	12 54 07.7
EPCP	58 09.4
SIT E(P)	12 54 29.5

Date and Station	Phase (GCT)
	h m s
KIP EP	12 55 55.2
HHM IP C	12 56 42.9
EPCP	58 47.9
BUT EP	12 56 58.5
BOZ IP	12 57 05.1
E(SCP)	13 02 09.0
ES	03 17.0
EL	06 32.0
EUR IP	12 57 12.2
SLC EP	12 57 26.3
BCN EP	12 57 36.0
ESCP	13 03 04.0
RCD IP	12 57 51.0
E▸P	58 08.0
E▸P	58 17.0
GUA EP	12 58 09.0
EL	13 09 22.0
TUC EP	12 58 13.1
ALQ IP	12 58 20.4
WSC IP	12 59 58.4
CSC EP	13 00 09.0
E	00 17.5
SJG EP	13 02 05.5
E	02 32.4
AUG 8	
BOZ IP	13 04 19.2
IL	04 33.0
BUT IP	13 04 22.5
IL	04 39.5
AUG 8	
COL EP	13 15 23.0
AUG 8	
KIP EP	13 30 41.1
HON EP	13 30 42.2
AUG 8	
COL EP	14 14 12.0
AUG 8	
EUR IP	14 46 45.8
AUG 8	
H-14 56 22.6	
51.0N 174.9E	
h ABOUT 33KM	
COL EP	15 01 33.0
EUR IP	15 05 02.3
AUG 8	
COL EP	15 16 28.0
AUG 8	
COL EP	15 29 25.0

Date and Station	Phase (GCT)
	h m s
BRW EP	15 29 51.9
E	30 09.2
EUR IP	15 32 45.0
AUG 8	
H-16 16 53.1	
28.9N 069.2E	
h ABOUT 33KM	
COL EP	16 29 13.0
AUG 8	
H-16 28 07.7	
45.3N 150.4E	
h ABOUT 33KM	
COL EP	16 35 28.0
BOZ EP	16 38 40.5
EUR IP	16 38 50.3
AUG 8	
EUR EP	16 30 49.7
AUG 8	
COL IP	16 53 06.7
AUG 8	
COL EP	16 56 30.0
AUG 8	
COL EP	17 16 34.0
AUG 8	
COL EP	17 23 24.0
AUG 8	
COL EP	17 56 26.0
AUG 8	
COL EP	19 26 10.0
AUG 8	
BRW EP	19 43 58.4
AUG 8	
BRW E(P)	20 02 03.9
AUG 8	
CSC F	20 51 08.0
AUG 8	
BOZ EP	21 22 20.0
AUG 8	
SLC EP	22 01 27.1
EUR IP	22 01 27.2
AUG 8	
ALQ IP	22 29 05.0
AUG 8	
H-22 54 01.7	
35.6S 103.8W	
h ABOUT 33KM	
SJG EP	23 04 35.5
EUR IP	23 05 44.0
BOZ EP	23 06 15.0

Date and Station	Phase (GCT)
	h m s
AUG 8	
H-23 11 29.2	
39.9S 015.9W	
h ABOUT 33KM	
COL EP'	23 30 57.0
AUG 8	
SJG IP	23 31 47.0
IS	31 58.2
AUG 9	
BRW EP	00 01 04.4
AUG 9	
WSC IP	00 43 08.3
AUG 9	
BRW E(P)	01 45 37.4
AUG 9	
H-02 34 22.2	
7.0S 123.2E	
h ABOUT 579KM	
BRW IP	02 46 37.3
EUR IP'	02 52 05.8
BOZ IP'	02 52 07.5
EPP	53 45.5
TUC IP'	02 52 17.3
ALQ EP'	02 52 23.6
AUG 9	
BRW E(P)	02 51 26.0
AUG 9	
TUC E(P)	03 14 05.2
AUG 9	
BOZ EP	03 24 10.0
AUG 9	
SJG IP C	03 27 15.4
IS	27 35.7
AUG 9	
H-03 29 52.3	
52.2N 178.2W	
h ABOUT 118KM	
COL EP	03 3[illegible] 13.0
ESCP	41 49.0
BRW EP	03 34 34.0
ESCP	41 54.3
HHM EP	03 37 17.8
ESCP	42 55.8
BOZ EP	03 37 30.0
IPP	38 07.5
ESCP	43 36.5
EUR IP	03 37 48.9
ISCP	43 11.1
BCN EP	03 38 11.8
EPP	39 38.0

Date and Station	Phase (GCT)
	h m s
TUC EP C	03 38 48.7
ESCP	43 44.2
ALQ IP	03 38 54.8
EPP	39 23.0
AUG 9	
KIP E(P)	04 12 02.8
BOZ IP	04 14 47.0
AUG 9	
H-04 19 05.3	
51.2N 171.8W	
h ABOUT 33KM	
COL EP	04 23 18.8
BRW IP	04 23 51.0
I	24 02.9
BOZ EP	04 26 32.5
EUR IP	04 26 39.0
EUR IP	04 26 39.2
I	26 50.9
TUC E(P)	04 27 40.3
AUG 9	
EUR EP	05 21 07.8
AUG 9	
COL IP	06 25 22.5
AUG 9	
COL EP	06 38 06.0
BOZ EP	06 40 58.0
AUG 9	
SJG IP D	07 12 05.8
IS	12 25.7
AUG 9	
H-07 53 18.0	
03.1S 079.5W	
h ABOUT 251KM	
BOZ EP	08 02 38.6
AUG 9	
BOZ EP	08 27 46.2
E	28 44.0
AUG 9	
H-08 40 29.8	
01.4S 078.7W	
h ABOUT 132KM	
BHP IP	08 42 51.0
SJG EP	08 45 24.7
TUC IP	08 48 35.8
RCD EP	08 49 14.5
EUR EP	08 49 35.8
IPP	50 04.5
BOZ EP	08 49 49.9
IPP	50 18.0

Date and Station	Phase (GCT)
	h m s
HHM EP	08 50 13.4
EPP	50 41.9
COL EP	08 52 37.0
AUG 9	
BOZ E(P)	08 44 21.0
AUG 9	
H-09 08 07.2	
5.1S 011.7W	
h ABOUT 33KM	
SJG EP	09 18 01.0
AUG 9	
H-10 07 02.4	
05.9S 104.8E	
h ABOUT 75KM	
BOZ EP'	10 26 06.0
EUR IP'	10 26 08.2
ALQ EP'	10 26 12.4
AUG 9	
H-10 17 12.6	
34.2N 138.9E	
h ABOUT 41KM	
BRW EP	10 26 04.4
I	26 12.1
COL FP	10 26 24.0
HHM FP	10 28 57.4
BUT EP	10 29 05.9
BOZ EP	10 29 10.0
I	30 20.0
EUR IP	10 29 16.1
TUC E(P)	10 29 49.0
AUG 9	
H-10 20 51.9	
47.8N 027.7W	
h ABOUT 33KM	
COL EP	10 30 45.0
TUC FP	10 31 15.0
AUG 9	
H-13 03 17.4	
27.0N 142.9E	
h ABOUT 33KM	
HHM FP	13 15 17.9
F	15 26.9
BUT E(P)	13 15 27.4
BOZ EP	13 15 31.0
E	15 40.5
EUR I(P)	13 15 37.6
AUG 9	
COL FP	13 14 54.0

Date and Station	Phase (GCT)
	h m s
AUG 9	
COL EP	14 19 18.0
AUG 9	
EUR EP	14 47 43.1
AUG 9	
RCD E(P)	15 40 42.0
E	40 53.0
BOZ EP	15 40 47.5
AUG 9	
RCD E(P)	17 20 33.0
COL EP	17 23 04.0
AUG 9	
H-17 26 43.1	
5.7S 148.6E	
h ABOUT 131KM	
GUA IP	17 31 03.0
ES	34 37.0
COL IP	17 39 00.9
AUG 9	
EUR EP	21 31 01.6
AUG 9	
EUR IP	22 04 58.0
AUG 9	
ALQ IP	22 30 32.5
AUG 9	
BOZ EP	22 56 49.0
AUG 9	
H-23 12 21.5	
28.7S 071.2W	
h ABOUT 32KM	
WSC EP	23 23 16.1
E	23 26.4
TUC IP C	23 23 40.0
E	23 54.5
ALQ IP	23 23 41.2
GCA IP	23 24 05.7
RCD IP	23 24 19.0
EUR IP	23 24 27.5
BOZ IP	23 24 42.3
I	24 56.0
I	25 03.0
HHM IP	23 24 59.5
AUG 10	
H-00 21 16.1	
20.1S 170.1E	
h ABOUT 9KM	
COL EP	00 34 20.0
EUR EP	00 34 22.6
TUC E(P)	00 34 27.1

Date and Station	Phase (GCT)
	h m s
AUG 10	
TUC EP	02 59 56.0
AUG 10	
H-03 15 50.0	
51.5N 177.0E	
h ABOUT 33KM	
COL IP	03 20 48.6
EUR IP	03 24 19.2
AUG 10	
SLC IP	03 54 13.0
AUG 10	
TUC EP	03 58 44.0
AUG 10	
H-04 07 21.9	
51.1N 171.3W	
h ABOUT 33KM	
COL EP	04 11 33.0
EUR IP	04 14 53.0
TUC EP	04 15 54.2
AUG 10	
EUR IP	05 40 45.1
AUG 10	
EUR IP	05 46 43.2
AUG 10	
COL EP	06 24 04.0
AUG 10	
BCN E(P)	07 25 17.0
EL	25 49.0
AUG 10	
H-07 59 53.0	
32.5N 115.7W	
h ABOUT 16KM	
BCN EP	08 00 50.0
I	01 02.5
IL	01 45.5
TUC E(P)	08 00 57.2
GCA IP	08 01 19.5
EUR EP	08 01 37.4
ALQ IP	08 01 54.0
AUG 10	
H-08 21 07.1	
61.3N 060.2W	
h ABOUT 33KM	
COL EP	08 28 14.0
EUR EP	08 28 44.1
AUG 10	
BUT E(P)	08 38 06.5
AUG 10	
EUR EP	08 44 52.0

Date and Station	Phase (GCT)
	h m s
AUG 10	
H-08 47 17.3	
15.2S 172.8W	
h ABOUT 11KM	
TUC EP	08 59 06.5
EUR IP	08 59 06.8
GCA EP	08 59 17.0
ALQ IP	08 59 31.0
BUT IP	08 59 37.5
COL IP	08 59 37.7
HHM EP	08 59 38.4
BOZ IP D	08 59 39.4
AUG 10	
H-11 15 20.1	
52.4N 173.5E	
h ABOUT 46KM	
COL EP	11 20 25.0
BOZ EP D	11 23 53.0
I	24 01.0
EUR IP	11 24 03.0
RCD EP	11 24 35.0
E	24 44.0
AUG 10	
COL EP	11 41 14.0
AUG 10	
KIP E(P)	13 02 24.9
AUG 10	
COL EP	13 56 56.0
AUG 10	
COL EP	14 06 44.0
AUG 10	
H-14 45 16.9	
25.1S 177.9W	
h ABOUT 540KM	
TUC EP	14 57 00.6
AUG 10	
EUR IP	14 47 24.1
AUG 10	
EUR EP	17 46 30.2
AUG 10	
TUC E(P)	20 06 14.2
AUG 10	
TUC E(P)	20 33 39.0
AUG 10	
H-21 46 33.9	
18.4S 172.5W	
h ABOUT 35KM	
TUC EP	21 58 28.5

Date and Station	Phase (GCT)
	h m s
EUR E(P)	21 58 30.6
BOZ IP	21 59 03.5
COL EP	21 59 06.0
AUG 10	
BOZ EP	21 53 02.0
EUR EP	21 53 28.0
AUG 10	
EUR EP	22 01 36.0
AUG 11	
H-00 45 35.9	
51.2N 171.7W	
h ABOUT 33KM	
BOZ E(P)	00 53 03.0
EUR IP	00 53 09.2
AUG 11	
BOZ E(P)	01 09 42.0
F	13 14.5
AUG 11	
KIP E(P)	01 25 31.0
AUG 11	
H-02 22 30.9	
39.0N 135.2E	
h ABOUT 375KM	
BOZ EP	02 33 43.0
AUG 11	
H-02 54 48.4	
14.7N 092.9W	
h ABOUT 111KM	
ALQ IP	02 59 49.5
EUR IP	03 01 07.0
BOZ EP	03 01 29.1
COL IP	03 05 00.1
AUG 11	
KIP E(P)	03 08 39.5
AUG 11	
H-03 10 05.2	
15.4S 166.9E	
h ABOUT 24KM	
COL EP	03 22 48.0
EUR IP	03 23 05.2
AUG 11	
COL EP	03 35 11.0
AUG 11	
H-03 40 54.7	
15.5S 166.9E	
h ABOUT 14KM	
GUA EP	03 47 58.1
IS	53 12.0

Date and Station	Phase	(GCT) h m s
HON	IP	03 49 53.0
	EPP	52 10.0
	ES	56 21.0
KIP	IP	03 49 53.1
	EPP	52 10.0
	ESCS	59 12.0
	EL	04 00 35.0
UKI	E(P)	03 53 32.0
COL	EP	03 53 39.0
SIT	E(P)	03 53 39.5
	ES	04 04 06.0
EUR	IP	03 53 54.2
BRW	IP D	03 53 56.8
	EPP	57 22.6
	E	04 00 20.1
TUC	IP	03 54 06.0
	E	54 23.0
GCA	EP	03 54 09.2
HHM	EP D	03 54 15.4
	ESKS	04 04 35.9
	EPKKP	11 12.9
	E	34 32.9
BUT	EP	03 54 16.6
	ESKS	04 04 48.6
BOZ	EP D	03 54 20.0
	ESKPP'	04 23 08.0
BCD	E(P)	03 54 44.0
WSC	EP'	03 59 45.0
	EPP	04 01 08.0
WAS	EP'	03 59 47.0
	E	04 01 05.0
AUG 11		
BHP	EP	03 55 49.0
AUG 11		
CSC	EP	04 10 15.0
AUG 11		
BRW	E(P)	04 11 14.0
AUG 11		
COL	EP	04 38 29.0
KIP	E(P)	04 42 50.3
AUG 11		
COL	EP	04 55 51.0
AUG 11		
CHK	E(P)	04 59 58.6
COL	EP	05 00 17.0
AUG 11		
COL	EP	05 36 24.0
AUG 11		
COL	EP	06 10 17.0
AUG 11		
COL	EP	06 18 19.0
TUC	E(P)	06 23 10.6
AUG 11		
TUC	EP	06 24 36.5
COL	EP	06 27 21.0
AUG 11		
BRW	E(P)	06 36 43.5
AUG 11		
COL	IP	06 39 54.0
AUG 11		
KIP	EP	07 02 26.9
	ES	10 11.0
	EL	15 43.0
HON	EP	07 02 27.4
	EL	15 33.0
AUG 11		
H-07 18 45.3		
15.6S 167.1E		
h ABOUT 32KM		
COL	EP	07 31 28.0
EUR	IP	07 31 43.8
TUC	E(P)	07 31 50.9
BRW	E(P)	07 31 54.7
ALQ	E(P)	07 32 09.2
AUG 11		
BOZ	E(P)	07 19 10.0
	E	20 13.0
AUG 11		
GUA	E(P)	07 31 14.0
	IS	35 11.0
HON	ES	07 35 17.0
	EL	41 42.0
AUG 11		
COL	EP	07 39 47.0
AUG 11		
EUR	IP	08 01 10.2
AUG 11		
COL	EP	08 11 57.0
TUC	EP	08 12 50.0
AUG 11		
TUC	E(P)	08 14 10.5
	E	14 18.5
COL	IP	08 14 27.6
AUG 11		
COL	EP	08 22 59.0
AUG 11		
H-08 47 45.5		
15.7S 166.9E		
h ABOUT 33KM		
COL	EP	09 00 28.0
EUR	EP	09 00 45.0
AUG 11		
BRW	E(P)	08 58 50.2
BOZ	E(P)	08 59 00.0
AUG 11		
COL	EP	09 09 43.0
AUG 11		
COL	EP	09 26 05.0
AUG 11		
H-10 05 17.9		
15.7S 167.1E		
h ABOUT 33KM		
COL	IP	10 18 01.1
EUR	EP	10 18 17.1
AUG 11		
COL	EP	10 25 22.0
AUG 11		
H-10 43 08.8		
47.3N 153.2E		
h ABOUT 75KM		
COL	E(P)	10 49 41.0
BRW	EP	10 49 41.9
BOZ	IP	10 53 20.0
	IPP	53 40.4
EUR	IP	10 53 29.3
TUC	E(P)	10 54 19.4
AUG 11		
COL	EP	11 05 02.0
AUG 11		
EUR	IP	11 38 38.8
COL	EP	11 40 12.0
AUG 11		
COL	EP	11 52 43.0
AUG 11		
COL	EP	11 55 19.0
AUG 11		
H-12 22 48.1		
33.4S 179.2W		
h ABOUT 33KM		
TUC	EP	12 35 54.6
EUR	IP	12 36 00.0
COL	EP	12 36 32.0
AUG 11		
COL	EP	12 29 15.0
AUG 11		
GCA	IP	12 51 32.5
AUG 11		
COL	IP	13 09 27.7
AUG 11		
KIP	E	13 18 10.0
AUG 11		
COL	EP	13 45 58.0
AUG 11		
H-14 07 41.7		
15.5S 167.2E		
h ABOUT 44KM		
COL	EP	14 20 22.0
EUR	IP	14 20 38.2
AUG 11		
COL	EP	14 12 28.0
AUG 11		
COL	IP	14 13 31.2
AUG 11		
COL	EP	14 25 36.0
AUG 11		
COL	EP	15 15 55.6
AUG 11		
EUR	IP	15 55 07.1
AUG 11		
BOZ	E(P)	16 22 30.0
COL	EP	16 28 04.0
AUG 11		
COL	EP	16 43 56.0
AUG 11		
COL	EP	16 52 25.0
AUG 11		
COL	EP	17 01 58.0
AUG 11		
EUR	E(P)	17 32 12.2
AUG 11		
BOZ	EP	18 10 07.0
BRW	E(P)	18 12 13.1
AUG 11		
H-18 15 39.0		
10.8N 083.2W		
h ABOUT 33KM		
BHP	IP	18 16 38.5
	IS	17 25.5
AUG 11		
COL	IP	18 17 37.2
AUG 11		
TUC	EP	18 25 50.2
HHM	EP	18 27 07.9
	E	28 44.6

Date and Station	Phase (GCT)
	h m s
AUG 11	
H-18 29 38.2	
59.5N 146.1W	
h ABOUT 16KM	
COL IP	18 31 01.2
SIT E(P)	18 31 05.0
EL	33 04.0
BRW FP	18 32 37.8
I	32 45.6
E(S)	34 44.0
EL	36 33.8
HHM IP D	18 34 30.1
ES	38 38.1
EL	41 02.1
BUT E(P)	18 34 53.6
FS	39 23.6
FL	41 31.6
BOZ EP	18 35 01.4
UKI E(P)	18 35 04.0
EUR IP	18 35 27.0
SLC FP	18 35 34.0
BCN EP	18 35 58.6
GCA FP	18 36 02.5
ALQ IP	18 36 32.2
E	36 37.2
TUC IP D	18 36 39.5
E	36 44.3
EPCP	39 08.8
KIP EP	18 37 05.9
WSC FP	18 38 09.9
EL	55 35.0
CSC EP	18 38 24.0
EL	55 49.0
HON ES	18 43 37.0
EL	47 30.0
AUG 11	
H-19 02 05.1	
7.5N 084.6W	
h ABOUT 39KM	
BHP EP	19 03 23.0
IS	04 10.0
AUG 11	
H-19 41 25.7	
6.7N 072.9W	
h ABOUT 173KM	
TUC EP	19 49 13.6
EUR EP	19 50 08.7
BOZ EP	19 50 13.5

Date and Station	Phase (GCT)
	h m s
AUG 11	
H-19 47 43.4	
15.7S 167.0E	
h ABOUT 32KM	
COL EP	20 00 25.0
BCN EP	20 00 40.5
EUR IP	20 00 41.8
BRW EP	20 00 43.3
E	00 54.3
TUC EP	20 00 51.3
BOZ EP	20 01 04.5
AUG 11	
H-19 52 28.4	
15.6S 167.0E	
h ABOUT 23KM	
GUA EP	19 59 32.7
IS	20 05 14.0
KIP EP	20 01 24.0
EPP	03 49.0
ES	08 38.0
ESS	12 14.0
EL	14 05.0
HON IP	20 01 24.0
EPP	03 17.0
ES	08 20.0
ESS	12 28.0
EL	14 12.0
COL EP	20 05 13.0
EUR IP	20 05 28.0
BCN EP	20 05 28.0
EPP	09 05.0
BRW EP	20 05 28.4
I	05 54.7
TUC E(P)	20 05 36.8
GCA EP	20 05 43.7
I	12 27.0
SLC EP	20 05 45.0
HHM E(P)	20 05 47.6
BUT E(P)	20 05 48.6
BOZ EP	20 05 53.0
E	26 19.0
ALQ IP	20 05 55.6
AUG 11	
H-20 04 14.9	
06.9N 073.1W	
h ABOUT 157KM	
BHP IP	20 05 50.6
I	06 03.3
TUC IP	20 12 03.6

Date and Station	Phase (GCT)
	h m s
BCN EP	20 12 40.5
BOZ IP	20 13 03.8
AUG 11	
CSC EP	20 12 21.5
AUG 11	
H-20 13 59.1	
15.7S 167.0E	
h ABOUT 51KM	
COL EP	20 26 40.0
IPP	30 07.2
BCN EP	20 26 54.3
FPP	30 22.2
BRW IP	20 26 56.9
E	28 33.8
EPP	30 43.2
EUR IP	20 26 57.2
TUC EP	20 27 03.7
AUG 11	
COL EP	20 21 37.0
BCN EP	20 21 51.5
BRW EP	20 21 52.8
HHM E(P)	20 22 47.1
AUG 11	
BCN EP	20 31 18.2
AUG 11	
BRW FP	20 46 07.4
E	46 18.6
AUG 11	
COL EP	20 51 15.0
AUG 11	
H-20 54 10.2	
15.6S 167.1E	
h ABOUT 95KM	
COL E(P)	21 06 54.0
BRW E(P)	21 07 09.3
AUG 11	
H-20 55 10.3	
15.6S 166.8E	
h ABOUT 20KM	
COL EP	21 07 55.0
BOZ E(P)	21 08 45.0
AUG 11	
COL EP	21 06 15.0
BCN EP	21 08 27.0
AUG 11	
COL FP	21 20 22.0
AUG 11	
COL EP	21 26 13.0

Date and Station	Phase (GCT)
	h m s
AUG 11	
ALQ IP	22 26 02.0
AUG 11	
H-22 31 45.9	
15.8S 167.2E	
h ABOUT 13KM	
GUA E(P)	22 38 54.5
HON EP	22 40 44.0
FS	48 05.0
EL	52 23.0
KIP EP	22 40 45.5
EPP	42 54.2
UKI E(P)	22 44 22.0
SIT E(P)	22 44 30.5
E(S)	55 08.0
COL EP	22 44 32.0
BCN EP	22 44 45.8
	23 12 11.0
EUR IP	22 44 47.0
BRW IP	22 44 48.8
EPP	48 23.4
EP'P'	23 10 45.8
TUC EP	22 44 55.0
E	45 17.3
E	45 29.8
EP'P'	23 10 32.0
GCA EP	22 45 02.3
SLC EP	22 45 03.5
I	45 23.0
EPP	48 55.0
BUT EP	22 45 07.1
FP'P'	23 10 33.6
HHM EP	22 45 07.6
ESKS	55 06.1
EP'P'	23 10 22.1
BOZ EP C	22 45 10.0
ESKS	55 33.0
ALQ IP	22 45 13.6
CHK E(P')	22 50 11.4
WSC EP'	22 50 37.0
EPP	51 48.2
SKKP	23 03 07.5
AUG 11	
TUC E(P)	22 33 13.7
AUG 11	
CSC E(P)	22 40 44.0
E(S)	47 24.0
AUG 11	
TUC FP	22 59 19.0
HHM E(P)	23 01 58.1

Date and Station	Phase	Phase (GCT) h m s
RCD	E(P)	23 02 03.0
AUG 11		
COL	EP	23 26 22.0
BRW	IP	23 26 38.4
AUG 11		
BHP	EP	23 31 40.0
AUG 12		
BCN	EP	00 09 57.0
AUG 12		
SLC	EP	00 49 15.0
AUG 12		
H-00 54 03.8		
16.0S 167.2E		
h ABOUT 28KM		
COL	P	01 06 49.0
AUG 12		
H-01 04 29.1		
20.7S 177.9W		
h ABOUT 366KM		
TUC	EP	01 16 16.5
ALQ	E(P)	01 16 37.0
COL	IP	01 16 41.1
BOZ	EP	01 16 46.3
AUG 12		
H-01 17 33.3		
16.0S 166.9E		
h ABOUT 46KM		
COL	IP	01 30 17.6
AUG 12		
COL	EP	01 17 46.0
AUG 12		
TUC	EP	01 20 29.0
	E(L)	22 20.3
ALQ	E(P)	01 21 11.0
BOZ	EP	01 23 33.5
AUG 12		
H-01 20 49.4		
16.2S 167.1E		
h ABOUT 26KM		
COL	EP	01 33 33.0
AUG 12		
H-01 25 01.9		
23.3S 175.7W		
h ABOUT 45KM		
BCN	EP	01 37 22.5
EUR	IP	01 37 28.2
GCA	E(P)	01 37 37.3
ALQ	IP	01 37 44.0
BOZ	IP	01 37 58.0
COL	EP	01 38 00.0
AUG 12		
H-01 33 34.6		
1.5N 126.4E		
h ABOUT 49KM		
BRW	IP	01 46 05.4
COL	EP	01 46 07.0
AUG 12		
BOZ	E(P)	01 46 07.5
AUG 12		
COL	EP	01 57 56.0
AUG 12		
COL	EP	02 08 20.0
AUG 12		
H-02 14 52.6		
20.7S 176.7W		
h ABOUT 8KM		
BCN	EP	02 27 08.0
	F	27 14.5
TUC	EP	02 27 12.0
ALQ	IP	02 27 34.4
COL	EP	02 27 38.0
BOZ	EP	02 27 44.0
AUG 12		
COL	EP	02 21 00.8
AUG 12		
H-02 21 34.4		
16.1S 167.5E		
h ABOUT 46KM		
COL	EP	02 34 15.0
EUR	E(P)	02 34 30.5
BCN	E(P)	02 34 43.2
AUG 12		
H-03 13 42.1		
15.9S 167.1E		
h ABOUT 33KM		
COL	EP	03 26 26.0
AUG 12		
EUR	E(P)	03 24 11.0
AUG 12		
COL	EP	03 38 58.0
BOZ	E(P)	03 42 10.0
	E	42 13.0
EUR	E(P)	03 42 19.1
TUC	EP	03 43 20.8
AUG 12		
H-03 44 28.7		
16.0S 167.3E		
h ABOUT 33KM		
COL	EP	03 57 14.0
AUG 12		
H-03 50 45.6		
51.3N 171.6W		
h ABOUT 33KM		
COL	IP	03 54 58.2
BRW	EP	03 55 30.1
	I	55 41.6
BOZ	EP	03 58 12.5
EUR	IP	03 58 18.9
TUC	EP	03 59 20.3
ALQ	E(P)	03 59 38.2
AUG 12		
H-03 57 54.6		
22.2S 069.1W		
h ABOUT 70KM		
ALQ	IP	04 08 42.0
TUC	EP	04 08 44.2
EUR	IP	04 09 33.5
	I▸P	09 45.7
BOZ	EP	04 09 45.6
AUG 12		
H-04 00 09.6		
16.3S 167.2E		
h ABOUT 43KM		
COL	E(P)	04 12 55.0
AUG 12		
H-04 39 49.1		
17.7S 178.7W		
h ABOUT 545KM		
EUR	IP	04 51 12.0
TUC	EP	04 51 13.9
HHM	EP	04 51 38.4
BOZ	EP	04 51 40.0
AUG 12		
KIP	EP	04 49 50.6
AUG 12		
BOZ	EP	04 57 04.0
AUG 12		
H-04 50 59.7		
15.8S 166.9E		
h ABOUT 33KM		
EUR	EP	05 03 53.2
AUG 12		
H-05 57 38.4		
15.7S 167.0E		
h ABOUT 78KM		
COL	EP	06 10 17.0
AUG 12		
H-06 14 35.7		
16.3S 167.3E		
h ABOUT 34KM		
COL	E(P)	06 27 22.0
AUG 12		
TUC	EP	06 15 13.8
AUG 12		
H-06 27 18.5		
13.1N 042.6W		
h ABOUT 33KM		
TUC	EP	06 37 54.0
BOZ	EP	06 38 05.0
EUR	E(P)	06 38 23.8
AUG 12		
BOZ	EP	07 19 12.1
AUG 12		
H-07 27 04.8		
15.7S 167.1E		
h ABOUT 33KM		
COL	E(P)	07 39 47.4
BCN	EP	07 39 55.8
EUR	EP	07 40 03.0
AUG 12		
BCN	E(P)	07 30 12.5
	EL	30 51.0
AUG 12		
H-08 01 43.5		
15.9S 167.4E		
h ABOUT 26KM		
GUA	IP	08 08 52.0
	IS	13 34.0
HON	EP	08 10 39.0
	EPP	12 45.0
KIP	EP	08 10 41.1
	ES	17 50.0
	ESS	21 44.0
	EL	22 39.0
UKI	E(P)	08 14 17.6
COL	IP	08 14 28.0
BCN	EP	08 14 41.3
	EPP	18 12.5
	EPKKP	32 17.8
EUR	IP	08 14 42.1
BRW	EP	08 14 43.7
	I	15 31.0

Date and Station	Phase (GCT) h m s
TUC EP	08 14 50.2
E	15 14.0
EPP	18 29.0
EPKKP	32 10.0
SLC EP	08 14 58.3
E	15 11.6
GCA E(P)	08 14 59.5
HHM EP	08 15 02.9
EPKKP	31 49.4
BUT E(P)	08 15 03.6
ESKS	25 41.6
BOZ EP D	08 15 06.6
EPKKP	31 54.5
ALQ IP	08 15 09.0
E	15 28.5
FPP	19 02.2
RCD E(P)	08 15 47.0
EPKKP	31 46.5
WSC EP'	08 20 31.2
FPP	21 45.0
F	32 53.0
AUG 12	
BHP EP	08 21 18.0
AUG 12	
HHM EP	08 40 10.4
EUR IP	08 40 23.8
BCN EP	08 40 26.0
AUG 12	
HON IP	08 49 51.0
IS	57 42.0
EL	09 03 46.0
KIP EP	08 49 53.1
IS	57 43.5
EL	09 06 10.0
EUR IP	08 53 11.1
AUG 12	
H-09 04 38.0	
50.2N 129.7W	
h ABOUT 16KM	
HHM EP	09 07 08.9
BOZ EP	09 07 44.0
EUR IP	09 08 04.2
SLC EP	09 08 20.5
COL EP	09 08 43.2
BCN EP	09 08 47.5
GCA E(P)	09 08 56.2
RCD E(P)	09 09 02.5
TUC EP	09 09 39.7

Date and Station	Phase (GCT) h m s
ALQ IP	09 09 40.6
BRW EP	09 09 59.6
AUG 12	
EUR IP	09 19 48.4
AUG 12	
H-10 20 11.4	
51.4N 174.0E	
h ABOUT 33KM	
COL EP	10 25 22.4
BOZ EP	10 28 46.0
EUR IP	10 28 55.9
AUG 12	
KIP EP	11 33 50.0
ES	41 10.0
EL	45 16.0
AUG 12	
H-12 12 37.7	
50.5N 176.6E	
h ABOUT 15KM	
EUR IP	12 21 14.4
AUG 12	
KIP EP	12 49 14.5
FPP	51 22.0
ES	56 49.0
AUG 12	
H-12 57 09.7	
5.2S 152.1E	
h ABOUT 42KM	
GUA EP	13 01 41.0
KIP EP	13 06 42.5
ES	14 30.0
EL	20 23.0
HON EP	13 06 44.0
ES	14 09.0
E(SS)	17 03.0
EL	19 51.0
BRW IP	13 09 33.4
IPP	09 45.7
EPP	12 58.7
SIT EP	13 09 42.5
ES	20 14.0
UKI E(P)	13 10 04.0
EUR IP	13 10 29.0
BCN EP	13 10 32.6
E	11 11.5
HHM EP	13 10 35.4
I	10 44.4
ESKS	21 09.4
BUT E(P)	13 10 38.6
E(PP)	10 47.6
ESKS	21 30.0

Date and Station	Phase (GCT) h m s
BOZ EP	13 10 41.0
IPP	14 46.5
ESKS	21 33.0
GCA EP	13 10 45.8
TUC EP	13 10 48.3
EPP	10 59.0
E	11 18.0
EPP	14 53.0
EP'P'	35 40.0
ALQ IP	13 11 04.5
EPP	11 16.8
IPP	15 26.0
RCD EP	13 11 11.0
EPP	11 21.0
EPP	15 22.0
WSC EP'	13 16 05.0
EPP'	16 17.8
EPP	17 54.8
BHP EP'	13 16 13.5
AUG 12	
KIP IP	13 22 31.9
AUG 12	
BOZ IP	13 31 00.6
IL	31 15.0
AUG 12	
BCN E(P)	13 35 51.0
AUG 12	
H-13 45 43.8	
45.0N 112.8W	
h ABOUT 33KM	
BOZ IP	13 46 00.0
BUT EP	13 46 03.6
IL	46 20.6
BZM EP	13 46 07.0
HHM E(P)	13 46 38.4
AUG 12	
H-14 01 15.8	
05.0S 152.1E	
h ABOUT 59KM	
COL EP	14 13 31.0
EUR IP	14 14 32.2
BOZ FP	14 14 47.2
AUG 12	
ALQ E(P)	16 24 08.5
HHM E(P)	16 24 36.4
AUG 12	
COL E(P)	16 28 04.0
AUG 12	
GUA IP	17 53 29.0
IS	53 50.0
KIP E(P)	17 58 49.1

Date and Station	Phase (GCT) h m s
AUG 12	
H-18 04 56.3	
15.9S 167.4E	
h ABOUT 47KM	
GUA EP	18 12 01.0
ES	17 42.0
COL EP	18 17 37.0
BCN E(P)	18 17 52.7
EPP	18 04.3
EPP	21 31.8
EUR IP	18 17 52.8
TUC E(P)	18 17 58.5
ALQ E(P)	18 18 18.4
GCA E(P)	18 18 18.8
HHM E(P)	18 18 25.5
HON ES	18 21 04.0
EL	25 28.5
AUG 12	
COL IP	19 25 24.6
AUG 12	
H-19 28 43.6	
16.0S 167.0E	
h ABOUT 29KM	
COL IP	19 41 29.5
AUG 12	
COL EP	19 34 06.0
AUG 12	
COL IP	19 34 20.8
AUG 12	
H-19 47 24.2	
16.1S 167.3E	
h ABOUT 33KM	
COL EP	20 00 09.0
AUG 12	
COL IP	20 07 44.0
AUG 12	
H-20 58 14.6	
05.3S 152.2E	
h ABOUT 50KM	
COL IP	21 10 32.3
AUG 12	
COL IP	22 06 23.5
KIP EP	22 07 39.2
I	07 49.5
FL	25 08.0
AUG 12	
COL FP	22 23 03.0
ALQ IP	22 25 48.0

Date and Station	Phase	(GCT) h m s
AUG 12		
FGU	EP	22 59 13.5
	E(S)	59 36.0
AUG 12		
COL	EP	23 02 16.0
AUG 12		
TUC	EP	23 24 30.4
ALQ	E(P)	23 25 14.2
AUG 12		
COL	IP	23 47 17.1
AUG 13		
COL	EP	00 10 53.0
AUG 13		
ALQ	IP	00 36 24.6
AUG 13		
H-00 54 43.5		
4.3S 080.9W		
h ABOUT 34KM		
BHP	EP	00 57 55.0
SJG	EP	01 00 22.0
WSC	E(P)	01 02 42.2
	EPP	02 52.3
	I(S)	04 30.4
ALQ	IP C	01 03 05.0
	EPP	03 15.0
TUC	IP	01 03 07.0
	EPP	03 17.5
GCA	E(P)	01 03 36.5
FGU	IP	01 03 48.5
BCN	E(P)	01 03 46.5
RCD	I(P)	01 04 03.0
BOZ	EP	01 04 25.0
	IPP	04 36.5
BUT	EP	01 04 31.5
	IPP	04 41.1
COL	IP	01 07 12.2
	EPP	10 37.0
AUG 13		
H-01 06 32.2		
17.6S 178.4W		
h ABOUT 513KM		
GUA	EP	01 14 22.5
TUC	EP	01 17 57.9
GCA	EP	01 18 05.5
COL	IP	01 18 14.0
COL	IP	01 18 14.3
BOZ	EP	01 18 24.0
AUG 13		
GCA	IP	01 13 13.8
	E(S)	13 45.9
FGU	IP	01 13 42.3
	IS	14 08.7
ALQ	EP	01 14 06.5
TUC	E(P)	01 14 37.0
AUG 13		
TUC	E(P)	01 16 06.5
COL	EP	01 17 45.0
AUG 13		
COL	IP	01 19 05.3
AUG 13		
FGU	EP	01 23 55.7
GCA	IP	01 24 27.2
ALQ	E(P)	01 25 18.0
AUG 13		
FGU	EP	01 36 50.0
	ES	37 10.0
AUG 13		
H-02 13 14.0		
13.6N 120.0E		
h ABOUT 36KM		
GUA	IP	02 18 29.0
	ES	23 39.0
COL	IP	02 25 13.6
SJG	EP'	02 32 57.0
AUG 13		
GCA	E(P)	02 52 38.5
AUG 13		
SIT	E(P)	03 01 07.0
AUG 13		
SIT	E(P)	03 19 55.0
AUG 13		
H-03 31 04.9		
16.1S 167.1E		
h ABOUT 33KM		
COL	EP	03 43 50.0
AUG 13		
H-04 18 36.8		
05.6S 151.6E		
h ABOUT 65KM		
GUA	IP	04 23 09.0
COL	EP	04 30 54.0
EUR	IP	04 31 57.3
AUG 13		
H-04 40 55.3		
15.9S 167.5E		
h ABOUT 34KM		
GUA	EP	04 48 03.0
	ES	53 45.0
KIP	E(P)	04 49 50.6
COL	IP	04 53 38.4
BCN	EP	04 53 51.0
	EPP	57 15.0
EUR	IP	04 53 52.8
	IPP	57 26.4
TUC	EP	04 54 01.7
	EPP	57 39.4
GCA	E(P)	04 54 09.0
BOZ	EP	04 54 18.0
	EPP	57 51.7
ALQ	EP	04 54 21.6
	IPP	58 10.0
HON	ES	04 57 35.0
	EL	05 02 00.0
SJG	EP'	05 00 01.0
AUG 13		
BOZ	E(P)	04 41 27.5
AUG 13		
FGU	E(P)	04 53 48.5
AUG 13		
COL	EP	05 28 17.0
AUG 13		
EUR	EP	07 38 45.0
COL	IP	07 41 31.6
AUG 13		
H-08 07 08.6		
15.5S 167.3E		
h ABOUT 33KM		
COL	EP	08 19 50.0
BCN	E(P)	08 20 05.5
EUR	IP	08 20 06.1
AUG 13		
COL	EP	08 59 28.0
BRW	IP	09 00 13.9
EUR	IP	09 02 49.0
AUG 13		
H-09 19 24.7		
31.3N 116.1W		
h ABOUT 33KM		
TUC	EP	09 20 34.0
BCN	IP	09 20 37.0
	IL	21 55.0
GCA	E(P)	09 20 51.4
EUR	IP	09 21 24.4
ALQ	IP	09 21 34.2
AUG 13		
H-09 28 33.9		
31.4N 115.9W		
h ABOUT 33KM		
TUC	E(P)	09 29 41.7
BCN	IP	09 29 44.0
	IL	31 03.0
EUR	EP	09 30 31.4
AUG 13		
H-09 47 36.2		
06.0S 151.1E		
h ABOUT 39KM		
GUA	IP	09 52 11.0
COL	EP	09 59 58.0
EUR	IP	10 01 01.3
BCN	EP	10 01 05.0
AUG 13		
EUR	EP	09 56 49.2
AUG 13		
SIT	E(P)	11 10 00.7
AUG 13		
COL	IP	11 17 58.5
AUG 13		
H-11 24 51.9		
16.0S 167.0E		
h ABOUT 33KM		
GUA	EP	11 31 57.0
	ES	37 41.0
KIP	EP	11 33 50.2
	ES	41 10.0
	EL	45 16.0
HON	EP	11 33 53.0
	EPP	35 52.0
	ES	41 14.0
COL	IP	11 37 35.5
BCN	EP	11 37 51.5
	EPP	41 26.0
EUR	IP	11 37 52.3
BRW	EP	11 37 52.8
TUC	E(P)	11 38 02.0
BOZ	E(P)	11 38 14.5
	EPP	42 06.0
ALQ	IP	11 38 21.6
	EPP	42 09.0
SJG	EP'	11 43 59.0

Date and Station	Phase (GCT)
	h m s
AUG 13	
H-11 40 10.4	
16.3S 171.6W	
h ABOUT 33KM	
TUC EP	11 51 53.8
BOZ EP	11 52 29.7
COL IP	11 52 34.0
AUG 13	
H-11 48 39.6	
16.0S 166.8E	
h ABOUT 85KM	
COL IP	12 01 17.0
FUR IP	12 01 33.1
AUG 13	
H-11 58 02.2	
23.8N 122.2E	
h ABOUT 75KM	
GUA EP	12 03 09.0
COL EP	12 08 58.0
HHM EP	12 11 06.3
BOZ EP	12 11 19.5
AUG 13	
BCN IP D	12 01 33.8
IS	01 36.3
TUC EP	12 02 47.2
ALQ IP	12 02 47.6
AUG 13	
COL EP	12 30 03.0
AUG 13	
H-12 40 08.0	
15.9S 166.8E	
h ABOUT 33KM	
GUA EP	12 47 09.0
HON I(P)	12 49 13.5
EPP	51 24.0
E(S)	57 11.0
KIP E(P)	12 49 14.5
EPP	51 22.0
E(S)	56 49.0
ESS	13 00 20.5
EL	01 22.0
SIT E(P)	12 52 49.5
COL IP	12 52 52.1
IS	13 03 55.0
BCN E(P)	12 53 07.0
F	53 13.0
I	53 37.0
BRW IP	12 53 08.6
I	53 31.6
FUR IP	12 53 09.4

Date and Station	Phase (GCT)
	h m s
FGU E(P)	12 53 17.4
TUC E(P)	12 53 18.2
ESKS	13 03 40.0
HHM E(P)	12 53 26.7
F(S)	13 04 06.7
BOZ FP	12 53 29.0
ESKS	13 04 03.0
ALQ E(P)	12 53 42.6
BUT E(P)	12 53 44.6
ESKS	13 04 23.6
WSC FP'	12 59 08.8
F	59 16.9
FPP	13 00 41.7
E	39 50.7
SJG FP'	12 59 14.5
EPP	13 01 22.0
ESKP	02 49.5
E	11 36.0
E	20 00.0
EL	34 30.0
AUG 13	
COL IP	13 02 18.2
AUG 13	
COL IP	13 05 13.0
AUG 13	
COL IP	13 07 47.8
AUG 13	
COL IP	13 14 41.6
AUG 13	
COL IP	13 16 42.0
AUG 13	
COL IP	13 17 59.6
AUG 13	
KIP IP	13 22 31.9
COL IP	13 26 17.2
TUC E(P)	13 26 39.2
SJG EP	13 32 37.0
AUG 13	
COL IP	13 23 16.0
AUG 13	
COL IP	13 29 05.4
AUG 13	
H-13 29 05.9	
46.7N 146.0E	
h ABOUT 280KM	
BRW IP	13 35 43.8
COL IP	13 36 09.3
E	59 11.5
BOZ IP	13 39 22.6
FUR EP	13 39 33.4

Date and Station	Phase (GCT)
	h m s
TUC FP	13 40 20.5
AUG 13	
BHP IP	13 37 59.4
SJG FP	13 41 12.5
E	41 16.5
AUG 13	
H-13 46 15.3	
34.4N 119.7W	
h ABOUT 16KM	
EUR IP	13 47 48.2
AUG 13	
H-13 53 28.1	
16.0S 166.8E	
h ABOUT 34KM	
COL IP	14 06 12.6
BRW EP	14 06 28.3
AUG 13	
CHK E(P)	13 55 29.5
E	59 47.5
AUG 13	
H-13 59 56.2	
16.1S 167.2E	
h ABOUT 33KM	
COL EP	14 12 42.0
AUG 13	
H-14 03 18.6	
15.8S 166.9E	
h ABOUT 60KM	
COL IP	14 15 59.0
AUG 13	
COL FP	14 05 07.0
AUG 13	
BOZ E(P)	14 25 10.5
E	25 25.0
AUG 13	
H-14 44 31.5	
15.7S 167.0E	
h ABOUT 33KM	
COL FP	14 57 15.0
AUG 13	
H-14 51 01.0	
15.6S 166.3E	
h ABOUT 33KM	
COL EP	15 03 45.0
AUG 13	
COL IP	15 04 57.5
AUG 13	
H-15 19 17.2	
61.2N 151.4W	
h ABOUT 92KM	
COL IP	15 20 19.5

Date and Station	Phase (GCT)
	h m s
BRW FP	15 21 44.0
I	21 56.0
HHM EP	15 24 31.2
E+P	24 50.2
BOZ EP	15 25 00.0
TUC FP	15 26 37.0
AUG 13	
H-15 23 20.7	
16.9S 167.7E	
h ABOUT 43KM	
COL EP	15 36 07.0
EUR E(P)	15 36 22.0
AUG 13	
SJG FP'	15 49 23.8
E	49 28.5
F	49 32.0
AUG 13	
BOZ E(P)	15 55 11.5
AUG 13	
H-16 42 02.8	
15.5S 166.7E	
h ABOUT 33KM	
COL IP	16 54 48.5
AUG 13	
WSC E(P)	16 44 48.7
AUG 13	
COL EP	17 10 12.0
AUG 13	
H-17 56 26.7	
16.6S 167.6E	
h ABOUT 33KM	
GUA EP	18 03 37.0
FS	09 40.0
KIP E(P)	18 05 25.0
E(S)	13 04.8
EL	16 56.0
COL FP	18 09 10.0
EUR FP	18 09 27.0
TUC E(P)	18 09 30.5
BRW E(P)	18 09 36.5
BOZ E(P)	18 09 50.0
EPP	13 45.0
ALQ E(P)	18 09 51.5
IPP	13 52.0
SJG EP'	18 15 30.2
E	26 31.0
AUG 13	
H-18 01 12.3	
16.5S 167.5E	
h ABOUT 96KM	

Date and Station	Phase (GCT)
	h m s
COL IP	18 13 50.5
AUG 13	
H-18 07 25.6	
15.6S 167.0E	
h ABOUT 33KM	
COL IP	18 20 09.1
EUR EP	18 20 23.2
BRW EP	18 20 24.1
AUG 13	
BRW EP	18 17 01.6
BOZ EP	18 18 31.0
E	30 50.0
AUG 13	
RHP EP	18 41 39.0
IS	42 14.0
AUG 13	
COL EP	19 08 15.0
AUG 13	
H-19 18 25.1	
16.2S 167.0E	
h ABOUT 12KM	
COL IP	19 31 13.6
BRW E(P)	19 31 28.5
EUR EP	19 31 28.8
AUG 13	
COL EP	19 43 41.0
AUG 13	
SJG EP'	20 38 22.0
AUG 13	
H-20 51 06.0	
51.5N 177.0E	
h ABOUT 33KM	
COL EP	20 56 03.0
EUR EP	20 59 34.5
TUC EP	21 00 33.5
AUG 13	
SLC EP	21 36 54.7
AUG 13	
H-21 57 38.4	
6.5S 148.6E	
h ABOUT 51KM	
GUA EP	22 02 11.0
ES	05 45.0
HON EP	22 07 39.0
ES	15 52.0
EL	22 16.0
KIP EP	22 07 39.2
I	07 49.5
EL	25 08.0
COL IP	22 10 09.2
BRW EP	22 10 15.2
I▷P	10 26.2
WSC EP'	22 16 38.3
E▷P'	16 53.7
CSC EP'	22 16 39.0
E▷P'	16 53.0
SJG EP'	22 17 06.0
I	17 10.0
E(PP)	20 48.0
AUG 13	
SLC EP	21 59 28.0
AUG 13	
WSC EP	22 01 28.8
AUG 13	
COL EP	22 42 53.0
AUG 14	
H-00 32 03.1	
30.7S 177.9W	
h ABOUT 33KM	
TUC EP	00 44 58.5
EUR EP	00 45 03.0
AUG 14	
KIP EP	01 24 40.0
E	26 33.2
AUG 14	
H-01 27 18.0	
47.3N 153.1E	
h ABOUT 41KM	
COL IP	01 34 14.3
TUC E(P)	01 38 32.4
ALQ EP	01 38 37.0
E	38 53.0
AUG 14	
TUC EP	03 31 22.0
AUG 14	
H-03 47 48.4	
01.8N 084.8W	
h ABOUT 33KM	
SJG EP	03 53 05.7
AUG 14	
H-04 13 01.5	
51.4N 175.8E	
h ABOUT 33KM	
COL EP	04 18 05.0
AUG 14	
COL EP	06 20 05.0
AUG 14	
SIT E(P)	07 52 39.4
AUG 14	
BOZ IP	07 59 02.0
IL	59 16.0
AUG 14	
ALQ E(P)	08 46 27.8
AUG 14	
BOZ EP	08 58 27.3
AUG 14	
H-09 33 09.3	
17.9S 167.8E	
h ABOUT 33KM	
EUR EP	09 46 12.2
AUG 14	
BOZ EP	10 56 46.5
AUG 14	
H-11 04 42.0	
33.1N 115.9W	
h ABOUT 16KM	
BCN E(P)	11 05 31.5
E	05 38.5
EL	06 17.0
TUC E(P)	11 05 49.8
EUR E(P)	11 06 17.2
AUG 14	
H-11 07 46.8	
15.8S 166.8E	
h ABOUT 33KM	
GUA EP	11 14 48.0
ES	20 26.0
KIP E(P)	11 16 40.0
EL	30 30.0
HON EP	11 16 41.0
EPP	18 45.0
ES	24 05.0
COL IP	11 20 30.2
EUR E(P)	11 20 47.2
TUC E(P)	11 20 55.7
E(S)	31 35.0
SJG EP'	11 26 48.5
I	26 59.5
F◁KP	30 11.5
AUG 14	
H-11 39 27.6	
40.9N 141.3E	
h ABOUT 80KM	
BRW EP	11 47 19.5
COL IP	11 47 44.4
HHM IP	11 50 27.0
BCN EP	11 51 11.3
TUC E(P)	11 51 37.3
ALQ IP	11 51 41.6
AUG 14	
H-13 13 54.1	
37.1N 089.2W	
h ABOUT 5KM	
RCD E(P)	13 16 54.0
ALQ E(P)	13 17 15.5
I	21 23.8
AUG 14	
WSC EP	13 16 45.0
AUG 14	
H-13 18 06.5	
11.5S 166.3E	
h ABOUT 51KM	
GUA EP	13 24 35.0
ES	29 53.0
KIP EP	13 26 43.5
I▷P	26 56.1
HON E(P)	13 26 48.0
ES	33 40.2
EL	40 04.2
COL EP	13 30 28.1
BCN EP	13 30 53.0
I▷P	31 07.2
BRW E(P)	13 30 57.5
SLC E(P)	13 30 58.5
TUC E(P)	13 31 02.2
HHM EP	13 31 08.5
BUT EP	13 31 13.6
E▷P	31 26.1
SJG EP'	13 37 12.0
E▷P'	37 25.5
AUG 14	
H-14 13 50.5	
22.9S 175.5W	
h ABOUT 33KM	
ALQ E(P)	14 26 28.0
COL E(P)	14 26 48.0
AUG 14	
COL EP	14 26 29.0
AUG 14	
H-14 40 23.5	
19.5S 173.7W	
h ABOUT 48KM	
COL IP	14 53 01.9
AUG 14	
BOZ EP	14 48 47.0
AUG 14	
COL EP	15 59 21.0

Date and Station	Phase (GCT)
	h m s
AUG 14	
H-16 06 46.8	
19.6S 178.1W	
h ABOUT 592KM	
GUA IP	16 14 43.0
EUR IP	16 18 10.5
TUC E(P)	16 18 11.2
COL IP	16 18 31.2
ALQ IP D	16 18 31.8
BOZ E(P)	16 18 44.5
AUG 14	
GCA EP	16 20 47.3
I	20 59.0
AUG 14	
H-17 14 47.5	
37.5N 072.3E	
h ABOUT 198KM	
COL IP	17 25 58.2
AUG 14	
H-17 47 49.6	
51.3N 171.6W	
h ABOUT 33KM	
COL EP	17 52 02.2
TUC EP	17 56 24.4
AUG 14	
SIT EP	18 50 23.0
I	50 38.2
AUG 14	
BOZ IP	19 47 15.1
AUG 14	
EUR IP	20 00 35.2
AUG 14	
SIT E(P)	20 07 55.0
I	08 10.5
COL EP	20 09 49.0
AUG 14	
SIT F(P)	21 15 57.5
AUG 14	
SLC EP	22 00 08.5
EUR EP	22 00 55.0
AUG 14	
RCD E(P)	22 54 33.0
AUG 14	
BOZ IP	23 00 07.6
AUG 14	
BOZ IP	23 18 16.4
COL EP	23 21 28.0
AUG 15	
COL IP	00 13 37.0

Date and Station	Phase (GCT)
	h m s
AUG 15	
RCD EP	01 09 14.0
TUC E(P)	01 09 29.7
AUG 15	
TUC E(P)	02 17 18.8
AUG 15	
BUT IP	02 41 07.7
AUG 15	
H-03 49 55.2	
52.4N 173.1W	
h ABOUT 53KM	
COL E(P)	03 54 02.5
EUR IP	03 57 33.0
AUG 15	
H-04 12 56.0	
14.6N 092.3W	
h ABOUT 168KM	
ALQ IP	04 17 56.2
TUC E(P)	04 18 02.2
E	18 16.4
EUR EP	04 19 12.8
AUG 15	
ALQ EP	04 23 13.0
AUG 15	
H-04 44 19.6	
13.9N 120.4E	
h ABOUT 12KM	
COL IP	04 56 21.5
AUG 15	
H-05 43 44.4	
22.3S 179.5W	
h ABOUT 581KM	
TUC E(P)	05 55 22.4
AUG 15	
H-05 59 47.0	
36.5N 071.1E	
h ABOUT 201KM	
BRW EP	06 10 21.2
COL IP	06 11 04.1
AUG 15	
CSC E(P)	06 11 09.0
ALQ EP	06 12 09.6
AUG 15	
H-08 49 45.1	
52.3N 171.6E	
h ABOUT 33KM	
BRW E(P)	08 54 53.8
COL IP	08 54 58.4
EUR IP	08 58 38.1

Date and Station	Phase (GCT)
	h m s
AUG 15	
RCD EP	09 16 21.0
AUG 15	
H-10 46 09.9	
44.6N 149.3E	
h ABOUT 60KM	
BRW EP	10 53 15.5
COL IP	10 53 36.3
EUR EP	10 56 55.8
AUG 15	
H-11 55 06.0	
16.0S 167.0E	
h ABOUT 63KM	
COL EP	12 07 48.0
AUG 15	
BRW E(P)	12 44 37.0
E	45 19.8
AUG 15	
H-14 21 06.0	
16.8S 167.2E	
h ABOUT 7KM	
COL EP	14 33 58.0
EUR IP	14 34 10.0
BRW E(P)	14 34 13.7
AUG 15	
BRW EP	14 57 55.7
AUG 15	
COL EP	15 56 32.0
AUG 15	
COL EP	16 21 27.0
AUG 15	
EUR IP	16 42 38.2
AUG 15	
GCA EP	17 18 33.5
AUG 15	
H-19 36 56.5	
02.6N 060.2W	
h ABOUT 42KM	
SJG EP	19 40 47.5
I	40 49.2
ALQ IP	19 46 16.5
TUC E(P)	19 46 32.8
EUR IP	19 47 18.2
COL IP	19 49 37.9
AUG 15	
EUR EP	22 13 32.8
AUG 15	
SLC EP	22 19 08.1
EUR EP	22 19 59.3

Date and Station	Phase (GCT)
	h m s
AUG 15	
ALQ IP	22 25 01.0
E	25 07.5
AUG 15	
SLC EP	22 27 42.0
AUG 15	
SLC EP	22 37 56.1
AUG 15	
EUR IP	22 51 29.8
AUG 15	
H-22 53 15.8	
68.1N 165.3W	
h ABOUT 66KM	
BRW IP	22 54 22.4
E	55 20.7
I	56 10.4
COL IP	22 55 06.8
HHM EP	22 59 39.6
EUR IP	23 00 38.7
AUG 15	
H-23 05 58.2	
15.5S 172.8W	
h ABOUT 41KM	
EUR IP	23 17 43.9
TUC EP D	23 17 44.0
GCA IP	23 17 54.3
SLC EP	23 18 03.0
COL IP	23 18 15.2
AUG 15	
H-23 06 53.2	
36.5N 121.2W	
h ABOUT 13KM	
EUR E(P)	23 08 12.7
I	08 17.0
BCN E(P)	23 08 32.0
TUC E(P)	23 09 12.3
AUG 15	
ALQ IP	23 17 51.4
E	18 08.5
AUG 16	
EUR EP	01 15 18.0
AUG 16	
COL EP	02 38 03.0
AUG 16	
H-04 36 35.5	
35.3N 035.6W	
h ABOUT 16KM	
WSC EP	04 43 15.3
E	43 35.7
ALQ EP	04 46 19.6

Date and Station	Phase	Phase (GCT) h m s
BOZ	IP	04 46 20.5
BUT	E(P)	04 46 24.7
HHM	EP	04 46 25.0
TUC	E(P)	04 46 51.5
EUR	IP	04 46 57.2
AUG 16		
COL	EP	05 12 03.0
BOZ	EP	05 14 31.3
	E	15 18.8
AUG 16		
COL	EP	05 30 13.0
AUG 16		
SIT	E(P)	06 53 10.2
AUG 16		
SIT	E(P)	07 07 28.2
AUG 16		
BRW	EP	09 48 03.6
COL	IP	09 48 41.8
AUG 16		
ALQ	EP	10 21 20.0
AUG 16		
SIT	E(P)	11 36 45.0
AUG 16		
SIT	E(P)	11 55 21.0
	E	55 28.4
AUG 16		
COL	EP	12 09 28.0
AUG 16		
H-12 16 52.0		
5.1N 077.6W		
h ABOUT 28KM		
BHP	IP	12 17 53.0
SJG	EP	12 20 50.0
CSC	E(P)	12 22 51.5
	EPCP	25 34.3
	EL	32 48.0
ALQ	IP	12 24 25.4
	E	24 34.0
TUC	EP	12 24 36.1
	F	24 45.5
	FPCP	26 19.2
GCA	IP	12 25 03.3
	I	27 47.3
RCD	EP D	12 25 04.8
	F	25 12.5
	FPP	26 54.0
SLC	E(P)	12 25 15.7
	F	25 23.2
	I	28 06.3
FUR	IP	12 25 35.8
	I	28 20.0
BOZ	IP C	12 25 45.7
	ES	32 34.0
BUT	EP	12 25 51.1
	E(PP)	28 35.6
HHM	EP	12 26 09.0
COL	IP	12 28 42.5
BRW	EP	12 29 08.0
AUG 16		
H-12 19 37.1		
05.1N 077.6W		
h ABOUT 46KM		
SJG	EP	12 23 34.0
	ES	26 55.0
ALQ	EP	12 27 09.0
	E	27 16.0
TUC	EP	12 27 20.0
	ES	33 34.0
RCD	EP	12 27 49.0
	E	27 57.5
	E	35 18.0
EUR	EP	12 28 20.0
BOZ	IP	12 28 29.6
	I	28 38.0
BUT	EP	12 28 35.6
HHM	EP	12 28 52.1
COL	IP	12 31 26.8
BRW	EP	12 31 51.8
	E	32 01.0
AUG 16		
BHP	IP C	12 31 31.3
AUG 16		
H-12 36 23.6		
00.5S 019.9W		
h ABOUT 35KM		
SJG	EP	12 45 09.0
	EPP	47 02.1
	ES	55 10.0
WAS	EP	12 47 03.0
	E(S)	56 50.0
WSC	EP	12 47 04.5
	E	47 24.7
	F(PP)	49 27.2
CSC	IP D	12 47 13.0
	ES	56 06.0
RCD	EP	12 49 00.5
ALQ	IP D	12 49 10.0
	IPP	52 31.4
TUC	EP	12 49 27.0
	F(PP)	53 02.7
BOZ	EP	12 49 28.0
	EPKKP	13 06 29.0
	F	15 04.0
GCA	EP	12 49 30.0
SLC	EP	12 49 30.6
HHM	EP	12 49 35.6
FUR	IP	12 49 45.6
	IPP	53 32.1
	FPKKP	13 06 46.0
COL	E(P)	12 50 44.0
	EPKKP	13 06 26.0
GUA	EP'	12 56 13.0
	F	13 01 11.0
BRW	EPKKP	13 06 27.0
AUG 16		
H-13 38 48.5		
20.6S 178.8W		
h ABOUT 550KM		
FUR	E(P)	13 50 21.0
	F(PP)	53 55.0
TUC	E(P)	13 50 21.7
ALQ	IP C	13 50 42.0
COL	IP	13 50 42.2
AUG 16		
H-14 43 48.0		
06.0S 153.9E		
h ABOUT 78KM		
COL	EP	14 56 03.0
AUG 16		
H-14 44 48.0		
17.4S 167.7E		
h ABOUT 20KM		
FUR	IP	14 57 50.8
	E	15 25 49.2
AUG 16		
BOZ	IP	14 46 14.6
	IL	46 21.5
AUG 16		
H-16 37 12.9		
19.0S 167.6E		
h ABOUT 17KM		
COL	IP	16 50 12.6
FUR	IP	16 50 22.5
BRW	EP	16 50 28.2
	E	50 39.7
TUC	EP	16 50 28.7
	E	50 39.7
BOZ	EP	16 50 45.0
SJG	EP'	16 56 21.2
AUG 16		
FUR	IP	16 56 20.5
AUG 16		
H-17 01 26.4		
61.4S 154.5E		
h ABOUT 33KM		
GUA	E(PP)	17 12 22.0
	E	22 42.0
BOZ	EP'	17 20 36.5
BRW	EP'	17 20 45.7
AUG 16		
H-17 51 34.8		
17.3S 167.7E		
h ABOUT 17KM		
EUR	IP	18 04 38.0
AUG 16		
H-18 02 21.5		
19.5N 108.0W		
h ABOUT 116KM		
ALQ	IP	18 05 56.5
FUR	IP	18 06 58.8
AUG 16		
BUT	E(P)	18 14 35.6
	IL	14 58.6
AUG 16		
H-18 17 48.3		
45.1N 111.7W		
h ABOUT 33KM		
BOZ	IP	18 18 00.0
	IL	18 08.5
BUT	IP	18 18 10.6
	IL	18 28.6
HHM	E(P)	18 18 42.2
	F	18 46.2
	FL	19 46.2
AUG 16		
COL	IP	19 14 11.2
AUG 16		
H-19 53 15.2		
35.3N 035.1W		
h ABOUT 33KM		
BOZ	E(P)	20 03 00.0
ALQ	E(P)	20 03 07.5
FUR	EP	20 03 35.9
AUG 16		
COL	EP	21 16 30.0
AUG 16		
COL	EP	21 32 09.0
AUG 16		
FUR	EP	22 22 24.0

Date and Station	Phase (GCT)
	h m s
AUG 16	
H-22 59 22.9	
17.3S 167.8E	
h ABOUT 34KM	
GUA E(P)	23 06 53.0
E(S)	12 36.0
COL IP	23 12 15.0
FUR IP	23 12 24.0
HON EL	23 22 48.0
AUG 17	
EUR EP	00 22 22.5
AUG 17	
H-00 22 23.9	
35.1N 35.2W	
h ABOUT 33KM	
BOZ E(P)	00 32 08.0
EUR EP	00 32 49.0
E	32 52.8
AUG 17	
COL IP	00 23 52.8
AUG 17	
FUR IP	01 25 16.2
AUG 17	
BOZ E(P)	01 57 33.5
E	57 45.0
EL	58 38.0
AUG 17	
BOZ FP	04 27 19.0
IL	27 52.0
EUR EP	04 27 51.7
AUG 17	
H-05 55 00.3	
51.2N 171.8W	
h ABOUT 33KM	
COL IP	05 59 15.9
BOZ FP	06 02 28.0
EUR E(P)	06 02 34.0
AUG 17	
H-06 19 42.7	
52.3N 172.1E	
h ABOUT 42KM	
COL IP	06 24 53.3
BOZ EP	06 28 22.0
EUR IP	06 28 32.5
AUG 17	
H-07 09 34.4	
41.7N 112.7W	
h ABOUT 33KM	
SLC EP	07 09 53.6
IS	10 21.8
EUR IP	07 10 26.5
BOZ EP	07 10 35.5
AUG 17	
EUR EP	07 22 35.1
AUG 17	
H-07 30 29.9	
5.4N 076.7W	
h ABOUT 193KM	
BOZ EP	07 39 09.5
AUG 17	
H-07 36 09.6	
12.3N 125.6E	
h ABOUT 17KM	
GUA EP	07 40 31.0
E(S)	44 12.0
COL EP	07 48 05.0
AUG 17	
H-08 06 05.0	
12.3N 125.6E	
h ABOUT 83KM	
GUA EP	08 10 20.0
ES	14 06.0
AUG 17	
H-08 46 05.5	
53.9N 160.8E	
h ABOUT 33KM	
COL IP	08 51 50.9
BOZ EP	08 55 27.0
E	55 35.0
EUR IP	08 55 41.5
RCD EP	08 56 05.0
ALQ EP	08 56 39.0
AUG 17	
H-10 20 28.8	
52.3N 169.6W	
h ABOUT 33KM	
COL EP	10 24 24.0
BOZ E(P)	10 27 41.0
FUR E(P)	10 27 50.5
AUG 17	
H-10 35 04.4	
05.3N 096.2E	
h ABOUT 43KM	
GUA E	10 44 53.0
IS	50 54.0
COL EP	10 48 33.0
E	59 09.2
E	11 05 27.0
HHM EP'	10 53 53.9
BOZ IP'	10 54 01.5
I	54 07.0
EPKKP	11 04 02.0
EUR IP'	10 54 07.7
EPKKP	11 04 09.3
RCD EP'	10 54 09.5
E	11 19 12.0
ALQ EP'	10 54 09.6
E	54 28.5
IPP	57 50.0
WSC EP'	10 54 15.0
E	54 24.9
EPP	57 51.8
ESKP	58 00.7
TUC EP'	10 54 19.0
EPP	57 51.1
WAS EP'	10 54 28.0
EPP	57 51.0
CSC EP'	10 54 34.0
ESKP	58 08.0
SJG EP'	10 54 56.0
PKKP	11 04 59.0
AUG 17	
H-11 14 10.4	
05.2S 152.6E	
h ABOUT 47KM	
GUA EP	11 18 44.0
HON E(P)	11 23 39.0
KIP EP	11 23 40.6
I	24 01.9
FUR IP	11 27 28.0
BOZ EP	11 27 43.0
AUG 17	
COL IP	11 23 56.2
AUG 17	
COL EP	11 48 41.0
AUG 17	
H-12 14 30.9	
20.6S 177.8W	
h ABOUT 501KM	
GUA IP	12 22 40.0
TUC E(P)	12 26 05.5
COL IP	12 26 28.2
BOZ IP	12 26 34.3
EPP	28 29.9
AUG 17	
COL EP	12 28 22.0
AUG 17	
H-12 52 39.4	
05.3N 096.2E	
h ABOUT 53KM	
BOZ EP'	13 11 33.5
EUR EP'	13 11 41.5
ALQ EP'	13 11 57.0
ESKP	15 33.0
E	25 11.4
SJG EP'	13 12 33.0
AUG 17	
H-13 04 31.6	
06.7S 147.0E	
h ABOUT 95KM	
GUA IP	13 09 00.0
IS	12 41.0
COL EP	13 16 59.4
EUR IP	13 18 06.8
BOZ EP	13 18 19.0
SJG EP'	13 24 00.5
AUG 17	
H-13 16 13.9	
51.8N 175.3W	
h ABOUT 51KM	
COL IP	13 20 35.2
BRW IP	13 21 01.6
I	21 09.3
F	21 15.1
HHM IP	13 23 33.5
BUT E(P)	13 23 46.1
BOZ IP C	13 23 56.5
FUR IP	13 24 03.8
RCD EP	13 24 42.5
AUG 17	
TUC E(P)	13 22 19.4
E	23 50.5
AUG 17	
H-14 02 19.2	
15.0N 092.1W	
h ABOUT 137KM	
CSC IP	14 06 59.5
E	07 05.0
EL	11 38.0
ALQ IP	14 07 19.8
TUC EP	14 07 24.6
E	11 05.2
E(S)	11 50.0
SJG EP	14 07 32.7
ES	11 05.4
WAS E(P)	14 07 52.0
ES	13 03.0

Date and Station	Phase	(GCT) h m s
WSC	EP	14 07 53.0
	EpP	08 14.5
	EsP	08 36.0
	ES	13 21.8
	ESCP	14 13.2
SLC	IP	14 08 25.8
EUR	IP	14 08 36.5
BOZ	EP	14 08 57.5
	EpP	09 18.5
	EPCP	11 30.6
	ISCP	15 08.0
BRW	IP	14 13 04.4
AUG 17		
EUR	E(P)	16 14 38.0
AUG 17		
H-16 17 41.5		
15.2S 166.6E		
h ABOUT 19KM		
GUA	E(P)	16 24 41.0
	E(S)	30 11.0
KIP	IP	16 26 42.2
COL	IP	16 30 24.6
BRW	EP	16 30 40.2
EUR	IP	16 30 42.0
TUC	E(P)	16 30 50.0
BOZ	EP	16 31 06.5
	F	34 48.5
SJG	EP'	16 36 50.5
AUG 17		
H-16 25 11.5		
15.3S 167.7E		
h ABOUT 222KM		
HON	E(S)	16 34 17.0
	FL	40 39.0
COL	IP	16 37 31.1
EUR	E(P)	16 37 46.0
AUG 17		
H-17 29 50.5		
15.7S 166.6E		
h ABOUT 104KM		
COL	EP	17 42 26.0
EUR	E(P)	17 42 54.5
	E	43 14.0
AUG 17		
TUC	E(P)	17 36 14.2
	E(L)	38 07.0
ALQ	EP	17 36 29.6
AUG 17		
EUR	IP	18 41 58.1

Date and Station	Phase	(GCT) h m s
AUG 17		
BHP	EP	18 52 40.0
	IS	53 23.0
AUG 17		
H-19 29 39.7		
05.2S 152.0E		
h ABOUT 76KM		
GUA	E(P)	19 34 08.0
COL	IP	19 41 53.8
EUR	E(P)	19 42 55.0
BOZ	EP	19 43 10.0
AUG 17		
COL	IP	19 51 55.1
AUG 17		
TUC	E(P)	20 00 31.0
AUG 17		
H-20 28 58.9		
15.2S 166.6E		
h ABOUT 15KM		
EUR	E(P)	20 42 07.0
AUG 17		
H-20 45 33.6		
21.1S 069.1W		
h ABOUT 110KM		
SJG	EP	20 52 48.5
	EpP	53 13.0
	EsP	53 26.0
ALQ	E(P)	20 56 10.0
TUC	EP	20 56 14.0
EUR	IP	20 57 03.7
BOZ	IP	20 57 16.0
	EpP	57 44.2
HHM	EP	20 57 32.1
	EpP	58 01.6
AUG 17		
COL	IP	20 46 23.7
AUG 17		
COL	IP	20 56 57.5
AUG 17		
H-20 57 03.4		
15.3S 166.6E		
h ABOUT 33KM		
COL	IP	21 09 46.6
AUG 17		
GUA	IP	21 13 13.0
	ES	13 32.0
AUG 17		
H-21 25 49.2		
5.2N 077.5W		
h ABOUT 25KM		

Date and Station	Phase	(GCT) h m s
BHP	IP D	21 26 52.8
	IS	27 43.0
TUC	E(P)	21 33 35.0
BOZ	EP	21 34 44.1
AUG 17		
EUR	E(P)	22 06 30.0
AUG 17		
H-22 07 42.8		
16.9S 173.4W		
h ABOUT 163KM		
EUR	E(P)	22 19 22.5
BOZ	E(P)	22 19 53.0
COL	EP	22 19 55.0
AUG 17		
H-22 18 52.5		
20.4S 168.8E		
h ABOUT 33KM		
KIP	E	22 29 38.0
COL	EP	22 31 53.0
EUR	IP	22 31 59.0
TUC	EP	22 32 04.0
AUG 17		
ALQ	E(P)	23 02 46.0
AUG 17		
TUC	EP	23 18 52.5
AUG 17		
COL	EP	23 23 05.0
AUG 18		
COL	EP	00 57 02.0
AUG 18		
GUA	EP	01 14 59.0
	IS	15 50.0
AUG 18		
GUA	EP	02 48 53.0
AUG 18		
COL	IP	02 56 36.5
AUG 18		
H-02 49 30.9		
02.4N 095.3W		
h ABOUT 33KM		
EUR	IP	02 57 16.5
BOZ	EP	02 57 47.0
AUG 18		
TUC	E(P)	03 16 25.7
AUG 18		
H-03 19 43.2		
15.2S 166.6E		
h ABOUT 42KM		
COL	IP	03 32 23.7

Date and Station	Phase	(GCT) h m s
EUR	IP	03 32 40.2
AUG 18		
H-04 49 52.6		
61.3N 146.0W		
h ABOUT 33KM		
COL	IP	04 50 48.8
BOZ	EP	04 55 18.0
AUG 18		
H-05 10 30.0		
10.5N 141.3E		
h ABOUT 62KM		
GUA	EP	05 11 39.0
	ES	12 32.0
AUG 18		
H-05 56 54.9		
17.3S 167.6E		
h ABOUT 26KM		
COL	E(P)	06 09 45.0
EUR	IP	06 09 57.5
AUG 18		
COL	IP	08 19 05.1
AUG 18		
H-10 01 48.1		
37.9S 073.6W		
h ABOUT 33KM		
TUC	EP	10 13 44.7
EUR	IP	10 14 28.0
BOZ	EP	10 14 45.0
AUG 18		
COL	EP	10 33 34.0
AUG 18		
H-12 55 49.9		
25.9N 125.9E		
h ABOUT 108KM		
COL	EP	13 06 21.0
BOZ	EP	13 08 48.1
	E(pP)	09 10.0
AUG 18		
H-14 00 34.7		
57.7N 152.1W		
h ABOUT 33KM		
COL	IP	14 02 24.8
EUR	E(P)	14 06 37.8
AUG 18		
H-14 14 35.4		
23.3S 175.5W		
h ABOUT 76KM		
TUC	E(P)	14 26 54.0
EUR	EP	14 26 55.5
	E(pP)	27 08.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	14 27 26.5
COL IP	14 27 29.2
AUG 18	
H-14 25 26.0	
23.2S 175.5W	
h ABOUT 63KM	
EUR IP	14 37 48.8
BOZ EP	14 38 18.5
E	38 30.0
E	40 35.8
E(PP)	41 48.5
COL EP	14 38 20.0
AUG 18	
BOZ E(P)	14 26 41.0
AUG 18	
H-14 29 00.7	
23.1S 175.6W	
h ABOUT 104KM	
GUA E(P)	14 38 10.0
EUR E(P)	14 41 17.5
AUG 18	
H-14 38 39.1	
23.3S 175.5W	
h ABOUT 89KM	
EUR EP	14 50 58.9
E(pP)	51 11.0
BOZ EP	14 51 29.5
E(pP)	51 41.5
COL EP	14 51 31.0
AUG 18	
EUR E(P)	14 40 05.0
COL EP	14 40 25.0
E	41 51.0
AUG 18	
H-14 51 30.5	
16.1S 166.9E	
h ABOUT 11KM	
GUA FP	14 58 34.0
ES	15 04 16.0
HON EP	15 00 31.0
ES	07 51.0
EL	14 18.0
KIP ES	15 08 05.0
EL	14 32.0
COL EP	15 04 16.0
BCN E(P)	15 04 29.0
EUR IP	15 04 33.8
TUC E(P)	15 04 43.0
BOZ E(P)	15 05 03.5

Date and Station	Phase (GCT)
	h m s
SJG EP'	15 10 39.5
AUG 18	
H-15 25 28.8	
81.3N 005.5W	
h ABOUT 33KM	
COL EP	15 31 58.0
I	32 06.0
EUR E(P)	15 34 56.0
AUG 18	
COL EP	15 51 19.0
AUG 18	
H-15 56 17.3	
23.2S 175.5W	
h ABOUT 93KM	
BOZ EP	16 09 07.0
E	09 19.5
COL EP	16 09 09.0
AUG 18	
H-16 48 07.8	
52.8N 176.4W	
h ABOUT 175KM	
COL IP	16 52 17.3
HHM EP	16 55 16.1
BOZ IP C	16 55 39.6
E	56 16.9
EUR IP	16 55 49.8
IpP	56 27.0
IsP	56 42.0
IPCP	58 36.5
BCN EP	16 56 13.3
RCD E(P)	16 56 25.0
TUC IP C	16 56 50.4
EpP	57 29.4
AUG 18	
COL EP	16 59 50.0
EUR EP	17 01 09.5
AUG 18	
H-17 37 56.4	
52.7N 169.0W	
h ABOUT 67KM	
COL IP	17 41 42.2
BOZ EP	17 45 04.0
EUR IP	17 45 12.2
AUG 18	
COL IP	17 48 21.0
AUG 18	
SLC EP	18 26 49.9

Date and Station	Phase (GCT)
	h m s
AUG 18	
H-19 02 35.4	
50.6N 130.0W	
h ABOUT 33KM	
BOZ E(P)	19 05 44.5
AUG 18	
EUR EP	19 05 15.1
AUG 18	
COL EP	20 07 52.0
AUG 18	
ALQ IP	20 19 42.5
AUG 18	
COL EP	21 46 42.0
AUG 18	
COL EP	22 03 00.0
EUR EP	22 03 43.2
AUG 18	
H-22 37 08.9	
16.0S 167.0E	
h ABOUT 33KM	
COL EP	22 49 53.0
AUG 18	
H-23 01 02.8	
52.3N 170.4E	
h ABOUT 33KM	
COL IP	23 06 21.3
BOZ EP	23 09 50.0
AUG 18	
H-23 40 54.1	
16.8S 172.8W	
h ABOUT 33KM	
BOZ EP	23 53 18.5
COL IP	23 53 20.4
AUG 18	
H-23 41 33.9	
20.7N 109.0W	
h ABOUT 33KM	
ALQ E(P)	23 45 06.0
EUR E(P)	23 46 05.0
AUG 18	
SJG IP	23 43 05.8
IS	43 13.5
AUG 19	
COL IP	00 25 06.3
AUG 19	
H-00 48 49.2	
28.1N 142.4E	
h ABOUT 33KM	
COL EP	00 58 27.0
BUT E(P)	01 00 55.7

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	01 01 00.0
EUR IP	01 01 02.5
AUG 19	
GUA IP	02 34 31.0
IS	34 46.0
AUG 19	
H-02 53 58.4	
06.8N 127.1E	
h ABOUT 50KM	
COL IP	03 06 13.8
AUG 19	
TUC E(P)	05 57 53.0
AUG 19	
COL IP	06 09 05.6
AUG 19	
BOZ FP	06 23 20.5
AUG 19	
TUC E(P)	06 30 37.2
E(L)	31 37.0
ALQ EP	06 31 42.6
AUG 19	
COL EP	06 40 27.0
AUG 19	
COL IP	06 42 52.2
AUG 19	
COL EP	07 41 44.0
AUG 19	
H-07 43 00.4	
44.2N 129.0W	
h ABOUT 33KM	
EUR IP	07 45 36.8
BOZ EP	07 45 56.6
ALQ IP	07 47 30.4
AUG 19	
COL IP	08 07 19.9
AUG 19	
H-08 22 17.2	
23.2S 175.2W	
h ABOUT 33KM	
GUA I	08 35 49.4
EUR IP	08 34 42.8
ALQ IP	08 35 02.2
BOZ EP	08 35 13.0
F	35 25.5
COL IP	08 35 15.4
AUG 19	
GUA IP	08 35 49.0
COL IP	08 43 45.0

Date and Station	Phase	Phase (GCT) h m s
EUR	EP	08 44 49.9
AUG 19		
EUR	E(P)	09 20 29.0
AUG 19		
EUR	IP	10 41 44.8
AUG 19		
BOZ	IP	11 42 38.1
	IL	42 49.0
BUT	E(P)	11 42 46.7
	IL	43 03.2
AUG 19		
H-12 40 56.8		
6.0S 151.4E		
h ABOUT 42KM		
FUR	IP	12 54 21.1
AUG 19		
GUA	IP	13 14 52.0
	IS	15 13.0
AUG 19		
H-13 51 45.7		
25.7S 178.9W		
h ABOUT 321KM		
EUR	E(P)	14 03 58.0
AUG 19		
COL	IP	14 41 40.8
AUG 19		
TUC	E(P)	15 24 31.5
AUG 19		
COL	FP	16 03 46.0
AUG 19		
EUR	E(P)	16 35 32.0
AUG 19		
FUR	EP	17 43 49.5
AUG 19		
H-18 15 17.5		
52.1N 178.2E		
h ABOUT 141KM		
COL	IP	18 19 56.2
EUR	IP	18 23 28.9
AUG 19		
COL	IP	18 27 14.6
EUR	FP	18 32 11.0
AUG 19		
H-19 47 23.2		
30.3N 138.5E		
h ABOUT 439KM		
GUA	IP	19 51 03.7
COL	IP	19 56 20.2
HHM	IP C	19 58 39.2
BUT	IP	19 58 49.4
	EpP	20 00 28.3
BOZ	IP	19 58 54.0
	EpP	20 00 32.5
EUR	IP	19 58 57.5
SLC	IP	19 59 07.7
TUC	E(P)	19 59 34.0
AUG 19		
EUR	IP	21 00 34.2
BOZ	E(P)	21 02 00.0
AUG 19		
H-21 02 15.7		
44.6N 118.4W		
h ABOUT 33KM		
HHM	EP	21 03 27.4
	EL	04 50.4
BOZ	IP	21 03 29.0
	I	03 47.0
	I	04 46.0
	EL	05 16.0
BUT	E(P)	21 03 31.3
	EL	04 35.3
FUR	IP	21 03 36.0
AUG 19		
EUR	IP	21 59 24.8
AUG 19		
SLC	FP	22 00 39.5
AUG 19		
ALQ	E(P)	22 11 12.4
AUG 19		
EUR	I(P)	23 11 44.6
AUG 19		
FUR	FP	23 42 00.0
AUG 20		
TUC	E(P)	00 29 40.3
AUG 20		
EUR	IP	02 42 21.5
BOZ	EP	02 42 23.5
AUG 20		
BHP	IP	04 31 57.5
	IS	32 21.0
AUG 20		
BCN	FP	05 09 08.5
	EP'	12 56.0
	FPP	14 55.0
	ESKP	15 59.0
	E	23 35.0
AUG 20		
COL	FP	05 18 59.0
AUG 20		
ALO	E(P)	05 39 26.0
AUG 20		
H-05 54 50.5		
05.7S 128.6E		
h ABOUT 327KM		
GUA	IP	05 59 47.0
	IS	06 03 44.0
HON	IP	06 06 08.5
	IsP	07 56.0
	IPP	09 06.0
	FS	15 30.0
	IsS	17 36.0
	FL	26 30.0
KIP	IP	06 06 08.8
	IsP	07 57.9
	IS	15 30.0
	ISCS	15 50.8
	IsS	17 36.3
	FL	26 31.0
COL	IP	06 07 23.8
SIT	E(P)	06 07 50.0
	EPP	11 52.0
	ESKS	17 56.0
HHM	FP	06 08 55.4
	FP'	12 49.9
	I	15 52.9
	ESKS	19 00.4
	ESKKS	20 00.0
	FS	20 49.0
	F	22 37.0
FUR	IP	06 09 00.0
BUT	EP	06 09 03.5
	EPP	14 47.5
	ISKKS	20 07.5
BOZ	FP	06 09 03.8
	EP'	12 25.0
	E	15 50.0
	ISKS	19 12.0
	ESKKS	21 00.0
TUC	FP	06 09 25.5
	ESKS	19 30.0
	FPKKP	23 22.0
GUA	I	06 10 10.0
SLC	IP'	06 12 57.4
	IPP	14 02.4
	I	16 00.4
	F	23 29.9
ALQ	IP'	06 13 08.0
	ISKS	19 39.6
WAS	FP'	06 13 34.0
	FpP'	15 00.0
	EPP	16 36.0
	F	19 10.0
CSC	EP'	06 13 38.0
	E	13 46.0
	EPP	16 46.0
	E	23 04.0
WSC	IP'	06 13 40.8
	FpP'	15 03.0
	EPP	16 35.0
	ESKKP	25 21.0
BHP	IP'	06 14 01.5
SJG	IP'	06 14 13.5
	IpP'	14 58.8
	I	16 38.0
	IPP	18 38.5
	SKS	20 34.0
	SKSP	28 30.0
	I	29 39.5
	ESPP	31 36.0
	FSS	38 20.0
AUG 20		
BHP	IP	06 07 55.2
	IS	08 41.0
AUG 20		
BOZ	FP	07 31 18.5
AUG 20		
BCN	EP	07 57 32.9
	FL	58 13.0
TUC	E(P)	07 58 03.3
AUG 20		
H-08 31 25.1		
05.4N 125.2E		
h ABOUT 78KM		
COL	FP	08 43 46.0
BOZ	FP'	08 49 49.5
AUG 20		
COL	EP	08 54 56.0
AUG 20		
H-09 42 48.7		
18.9S 069.0W		
h ABOUT 128KM		
BHP	IP	09 48 46.0
SJG	IP C	09 49 44.5
	EPP	51 14.0
	IS	55 15.5
	ISCP	56 07.0
	EL	58 03.0
	FSCS	59 47.5
CSC	IP	09 51 59.0
	EpP	52 30.0
	ES	59 10.0
WSC	IP	09 52 29.1
	EpP	52 59.0
	FS	10 00 19.0
WAS	IP	09 52 30.0
	FPCP	53 16.0
	E	10 10 18.0
PHI	E(P)	09 52 41.0

Date and Station	Phase (GCT)
	h m s
ALQ IP	09 53 12.8
IS	10 01 36.6
TUC IP D	09 53 16.0
I▸P	53 48.1
ES	10 01 48.0
GCA IP	09 53 41.8
BCN IP D	09 53 47.8
I▸P	54 19.8
EP'P'	10 21 50.0
SLC IP	09 53 58.0
I	55 30.0
EUR IP D	09 54 06.1
I▸P	54 37.0
E(S)	10 03 28.6
BOZ IP	09 54 18.5
I▸P	54 52.5
ES	10 03 38.0
E	15 21.0
BUT IP	09 54 23.0
I▸P	54 56.0
ISCS	10 04 19.5
UKI E(P)	09 54 28.0
HHM IP D	09 54 35.9
I▸P	55 10.0
ISCS	10 04 22.0
KIP E(P)	09 56 06.8
HON E(P)	09 56 08.0
E(PKP)	10 00 27.0
ES	07 36.0
EL	22 12.0
COL EP	09 56 30.0
GUA IP'	10 02 16.0
AUG 20	
EUR IP	10 21 39.8
ALQ FP	10 21 53.0
AUG 20	
ALQ E(P)	10 30 07.5
AUG 20	
COL EP	12 05 37.0
EUR EP	12 09 11.2
AUG 20	
EUR EP	15 37 08.2
AUG 20	
BOZ E(P)	16 16 07.0
E	17 38.0
AUG 20	
EUR IP	17 07 24.8
AUG 20	
COL EP	17 25 17.0
AUG 20	
EUR IP	19 04 30.5

Date and Station	Phase (GCT)
	h m s
AUG 20	
BHP IP C	19 48 46.0
AUG 20	
ALQ IP	20 41 15.4
AUG 20	
COL EP	21 15 56.0
BOZ EP	21 19 05.9
EUR IP	21 19 14.0
AUG 20	
H-21 21 51.5	
22.8S 176.2W	
h ABOUT 79KM	
KIP IP	21 30 20.0
E▸P	30 37.6
ES	37 11.0
EL	40 49.0
GUA IP	21 30 58.0
ES	38 11.0
UKI E(P)	21 33 49.0
TUC IP C	21 34 11.3
E▸P	34 31.0
E(S)	44 23.0
EUR IP	21 34 13.0
GCA IP	21 34 21.5
SIT E(P)	21 34 27.7
E▸P	34 47.2
SLC IP	21 34 29.4
ALQ IP	21 34 32.5
E▸P	34 56.4
BUT IP D	21 34 41.1
IPP	38 01.0
ESKS	45 07.5
BOZ IP C	21 34 43.0
ESKS	45 10.0
HHM EP	21 34 43.0
ESKS	45 10.0
E(S)	45 45.0
COL IP	21 34 43.4
SJG EP'	21 40 24.3
E▸P'	40 46.1
E	41 21.0
E	47 05.0
E	49 10.0
AUG 20	
EUR E(P)	21 59 36.0
SLC EP	22 00 13.5
AUG 20	
EUR E(P)	22 03 48.0
COL EP	22 05 24.0

Date and Station	Phase (GCT)
	h m s
AUG 20	
H-22 09 25.2	
23.9N 121.9E	
h ABOUT 58KM	
HHM IP	22 22 31.5
AUG 20	
ALQ IP	22 28 29.4
AUG 20	
BCN EP	22 46 44.0
IS	46 58.0
AUG 20	
SLC EP	23 07 48.1
AUG 20	
COL EP	23 26 13.0
AUG 20	
H-23 42 30.4	
51.8N 172.7E	
h ABOUT 40KM	
COL IP	23 47 42.2
EUR IP	23 51 18.0
TUC E(P)	23 52 16.7
AUG 20	
ALQ I(P)	23 47 21.8
AUG 20	
COL EP	23 53 50.0
AUG 20	
COL EP	23 55 26.0
AUG 21	
H-01 05 32.8	
37.4N 096.7E	
h ABOUT 33KM	
COL EP	01 16 19.0
AUG 21	
H-01 08 11.3	
32.3S 178.2W	
h ABOUT 33KM	
TUC E(P)	01 21 10.9
AUG 21	
BOZ EP	02 30 52.8
AUG 21	
H-03 17 52.8	
22.1S 179.5W	
h ABOUT 582KM	
EUR IP	03 29 29.9
TUC EP	03 29 30.0
ALQ IP	03 29 49.8
BOZ EP	03 29 57.5
AUG 21	
H-06 00 55.4	
13.6S 166.7E	
h ABOUT 65KM	

Date and Station	Phase (GCT)
	h m s
COL EP	06 13 25.0
EUR EP	06 13 43.6
AUG 21	
H-08 05 35.6	
05.2S 152.3E	
h ABOUT 46KM	
GUA EP	08 10 06.8
COL EP	08 17 52.1
EUR IP	08 18 53.8
BOZ EP	08 19 08.5
AUG 21	
SIT E(P)	08 34 48.0
AUG 21	
H-09 23 44.4	
50.2N 177.1E	
h ABOUT 33KM	
COL EP	09 28 52.8
EUR IP	09 32 16.1
AUG 21	
COL EP	09 44 36.0
AUG 21	
H-10 10 42.2	
15.3S 166.4E	
h ABOUT 33KM	
COL EP	10 23 25.0
AUG 21	
EUR EP	10 14 39.0
AUG 21	
SJG FP	10 58 57.5
AUG 21	
EUR FP	12 34 02.5
AUG 21	
TUC E(P)	13 01 28.0
E	01 39.5
AUG 21	
H-12 54 33.3	
15.2S 166.6E	
h ABOUT 49KM	
COL EP	13 07 13.0
AUG 21	
RCD E(P)	14 15 50.5
AUG 21	
RCD E(P)	14 21 35.5
AUG 21	
BOZ EP	14 50 16.0
AUG 21	
H-15 04 20.3	
05.8S 104.2E	
h ABOUT 57KM	
COL EP'	15 22 27.0

Date and Station	Phase (GCT)
	h m s
HHM EP'	15 23 20.1
BOZ EP'	15 23 26.5
E▸P'	23 37.0
ESKP	26 43.0
EUR EP'	15 23 29.9
I▸P'	23 39.9
EPP	25 58.2
ISKP	26 50.0
TUC EP'	15 23 34.0
ALQ IP'	15 23 38.5
ISKP	27 18.8
WSC EP'	15 23 57.6
E▸P'	24 09.6
E	25 02.1
E	25 34.7
WAS EP'	15 24 10.0
AUG 21	
SJG E(P)	15 25 21.0
F	25 41.0
RCD E(P)	15 27 01.0
TUC E(P)	15 27 14.9
AUG 21	
COL IP	16 21 53.6
AUG 21	
BOZ FP	16 56 21.5
AUG 21	
H-16 59 39.7	
43.8N 139.7E	
h ABOUT 130KM	
BOZ FP	17 10 44.1
EUR IP	17 10 54.9
AUG 21	
TUC FP	17 57 38.5
AUG 21	
TUC E(P)	18 04 34.5
AUG 21	
H-18 50 15.7	
18.0S 178.4W	
h ABOUT 576KM	
KIP E(P)	18 57 33.4
EUR IP	19 01 35.4
TUC EP	19 01 37.5
COL EP	19 01 54.0
ALQ IP	19 01 58.0
BOZ EP	19 02 04.2
E▸P	04 10.0
AUG 21	
BOZ EP	19 14 15.0

Date and Station	Phase (GCT)
	h m s
AUG 21	
BCN IP	19 23 15.6
IS	23 17.2
AUG 21	
H-19 50 52.8	
52.9N 174.7W	
h ABOUT 200KM	
COL EP	19 54 53.0
BOZ IP	19 58 14.0
EUR IP	19 58 23.1
TUC EP	19 59 24.5
AUG 21	
SJG EP	20 57 29.0
RCD E(P)	21 04 46.0
AUG 21	
BOZ E(P)	21 32 45.0
AUG 21	
SLC EP	21 59 29.3
AUG 21	
SLC EP	22 01 32.8
EUR EP	22 02 16.6
AUG 21	
H-23 20 43.9	
46.4N 153.0E	
h ABOUT 33KM	
COL EP	23 27 46.0
BOZ EP	23 31 03.5
AUG 22	
COL EP	00 18 44.0
AUG 22	
COL EP	00 30 20.0
AUG 22	
SIT E(P)	00 39 17.2
AUG 22	
BUT IP	00 59 06.0
IL	59 09.8
AUG 22	
SJG EP	00 59 20.0
AUG 22	
BOZ EP	03 04 36.0
ES	05 07.0
EUR EP	03 06 16.1
AUG 22	
H-03 48 49.2	
28.0S 176.2W	
h ABOUT 33KM	
BCN EP	04 01 29.0
TUC EP	04 01 30.6
E	01 42.3

Date and Station	Phase (GCT)
	h m s
EUR EP	04 01 35.0
ALQ IP	04 01 50.8
BOZ EP	04 02 05.0
COL EP	04 02 11.0
AUG 22	
KIP EP	03 57 29.3
AUG 22	
COL EP	04 30 06.0
AUG 22	
H-04 47 30.7	
33.6S 179.2W	
h ABOUT 33KM	
TUC EP	05 00 38.0
E	00 51.8
EUR IP	05 00 43.0
AUG 22	
COL EP	04 58 06.0
AUG 22	
H-05 11 41.5	
52.2N 173.2E	
h ABOUT 42KM	
COL IP	05 16 49.1
HHM EP	05 19 52.6
EUR IP	05 20 26.8
I▸P	20 38.5
AUG 22	
EUR E(P)	06 17 57.4
AUG 22	
COL FP	07 07 21.0
AUG 22	
COL FP	07 51 10.0
AUG 22	
H-07 52 53.8	
08.4S 121.9E	
h ABOUT 289KM	
COL EP	08 05 54.0
AUG 22	
COL EP	10 33 58.0
AUG 22	
H-10 39 27.7	
02.3S 076.9W	
h ABOUT 187KM	
SJG EP	10 44 17.0
ALQ IP	10 47 37.2
ISCP	52 48.4
I	11 05 09.4
BOZ EP	10 48 54.0
E▸P	49 29.0

Date and Station	Phase (GCT)
	h m s
AUG 22	
H-10 39 42.4	
29.0S 175.8W	
h ABOUT 17KM	
KIP IP	10 49 00.9
BCN EP	10 52 27.0
TUC EP	10 52 27.9
EUR IP	10 52 33.5
BOZ IP	10 53 03.5
COL EP	10 53 10.0
AUG 22	
COL EP	10 42 03.0
AUG 22	
H-10 52 20.8	
23.6S 175.5W	
h ABOUT 42KM	
EUR EP	11 04 46.9
I▸P	05 00.3
COL EP	11 05 20.0
E▸P	05 32.6
AUG 22	
H-12 24 22.5	
07.8S 074.5W	
h ABOUT 141KM	
SJG FP	12 29 54.1
ALQ IP	12 33 21.5
TUC EP	12 33 26.0
RCD EP	12 34 02.0
EUR IP	12 34 22.1
BOZ IP	12 34 35.5
HHM FP	12 34 59.1
COL IP	12 37 07.8
AUG 22	
H-13 20 01.3	
50.5N 150.2E	
h ABOUT 475KM	
COL IP	13 26 09.2
BOZ IP	13 29 29.5
EUR IP	13 29 42.2
AUG 22	
COL EP	13 24 05.5
AUG 22	
COL EP	13 31 08.0
AUG 22	
EUR EP	14 56 34.0
AUG 22	
BOZ EP	16 48 54.5

Date and Station	Phase (GCT)
	h m s
AUG 22	
BOZ EP	17 43 10.0
AUG 22	
BOZ IP	17 48 55.1
EUR IP	17 50 33.0
AUG 22	
BOZ EP	17 51 04.5
I	51 45.0
AUG 22	
H-17 54 33.3	
42.3N 110.6W	
h ABOUT 33KM	
BOZ EP	17 55 25.0
IS	56 05.0
BUT E(P)	17 55 31.8
FUR EP	17 55 46.1
AUG 22	
SJG F(P)	17 57 30.6
AUG 22	
BOZ EP	18 12 00.0
E	12 41.0
AUG 22	
RCD E(P)	18 18 18.0
AUG 22	
ALQ IP	20 14 15.0
AUG 22	
BUT EP	21 15 15.3
ES	15 43.8
BOZ EP	21 15 18.5
I	15 22.0
IL	15 54.0
HHM E(P)	21 15 39.2
EL	16 46.0
FUR IP	21 15 57.0
AUG 22	
EUR IP	21 59 41.8
SLC EP	21 59 51.7
AUG 22	
FUR E(P)	23 31 14.0
E	31 56.6
AUG 23	
H-01 03 05.8	
42.5N 111.3W	
h ABOUT 33KM	
SLC IP	01 03 35.3
IS	04 01.5
BOZ IP D	01 03 53.5
IL	04 33.5
BUT EP	01 04 01.0
EL	04 50.5
FUR IP	01 04 15.2

Date and Station	Phase (GCT)
	h m s
HHM EP	01 04 37.3
E	04 41.5
EL	06 10.0
RCD E(P)	01 04 49.0
ALQ I(P)	01 05 12.6
AUG 23	
TUC EP	01 06 05.5
E	08 26.0
AUG 23	
H-02 17 24.2	
53.6N 176.0E	
h ABOUT 33KM	
COL EP	02 22 10.0
EUR E(P)	02 25 53.1
ALQ IP	02 47 18.5
COL IP	02 47 26.1
AUG 23	
EUR IP	02 50 58.3
AUG 23	
BOZ IP	03 05 46.5
AUG 23	
H-03 13 58.1	
52.2N 169.2W	
h ABOUT 20KM	
COL EP	03 17 54.0
AUG 23	
COL EP	05 52 35.0
AUG 23	
H-06 46 42.5	
21.5S 179.0W	
h ABOUT 555KM	
TUC EP	06 58 18.8
COL EP	06 58 39.0
BOZ EP	06 58 47.0
AUG 23	
SJG IP D	07 53 27.0
IS	53 45.4
BOZ EP	08 01 29.2
AUG 23	
COL EP	07 53 43.0
AUG 23	
BCN EP	09 23 50.5
EL	24 41.0
EUR IP	09 24 12.0
AUG 23	
TUC EP	10 20 42.3
E	21 17.9
E(L)	22 30.4

Date and Station	Phase (GCT)
	h m s
AUG 23	
EUR EP	10 29 39.5
AUG 23	
H-13 32 37.5	
49.2N 129.0W	
h ABOUT 14KM	
BOZ EP	13 35 34.5
EUR IP	13 35 54.0
RCD EP	13 36 55.1
COL EP	13 36 56.0
ALQ IP	13 37 32.5
AUG 23	
EUR I(P)	13 41 35.7
H-14 08 59.2	
40.7N 026.1E	
h ABOUT 33KM	
WAS E(P)	14 20 34.0
COL EP	14 20 38.0
SJG E(P)	14 21 16.6
BUT E(P)	14 21 25.7
RCD EP	14 21 29.0
HHM EP	14 21 30.7
EUR IP	14 22 12.9
ALQ EP	14 22 13.0
TUC E(P)	14 22 29.0
BCN E(P)	14 22 29.0
AUG 23	
H-17 13 29.7	
10.4S 161.3E	
h ABOUT 78KM	
COL IP	17 25 52.2
EUR IP	17 26 28.0
BCN EP	17 26 29.0
AUG 23	
SJG EP	17 18 48.0
EL	19 33.8
EUR I(P)	17 24 35.5
AUG 23	
EUR I(P)	17 25 08.9
AUG 23	
HHM EP	17 52 56.2
AUG 23	
H-18 45 13.9	
23.5N 122.1E	
h ABOUT 37KM	

Date and Station	Phase (GCT)
	h m s
COL EP	18 56 16.0
AUG 23	
ALQ IP	19 45 41.5
AUG 23	
H-19 46 01.8	
h ABOUT 20KM	
BHP IP	19 50 08.0
ALQ IP	19 50 44.8
TUC IP C	19 50 45.5
CSC IP D	19 50 57.5
GCA IP	19 51 28.0
BCN EP	19 51 35.0
IS	56 39.0
CHK IP	19 51 40.4
IS	56 20.0
WAS IP	19 51 51.0
E	52 30.0
ES	56 24.0
WSC EP	19 51 53.1
SLC EP	19 51 54.0
IS	56 40.2
SJG EP C	19 51 54.6
ES	56 22.5
I	20 03 09.0
RCD EP	19 51 58.0
EUR IP	19 52 02.2
PHI IP	19 52 13.4
IS	57 31.1
BOZ IP C	19 52 30.0
BUT EP	19 52 35.1
E	53 58.6
ES	57 20.6
UKI EP	19 52 40.5
ES	57 56.0
SIT EP	19 55 00.5
ES	20 02 17.0
HON IP	19 56 00.0
ES	20 04 05.0
EL	10 49.0
KIP IP	19 56 02.2
COL EP	19 56 07.0
GUA EP	20 00 45.0
E(PP)	05 16.0
AUG 23	
H-21 29 57.5	
30.8S 177.9W	
h ABOUT 36KM	

Date and Station	Phase (GCT)
	h m s
EUR IP	21 42 57.7
AUG 23	
EUR IP	22 01 25.5
AUG 23	
EUR IP	22 08 00.5
AUG 23	
H-22 09 47.1	
3.7S 151.4E	
h ABOUT 6KM	
GUA IP	22 14 04.0
COL EP	22 22 05.0
EUR EP	22 23 13.6
HHM E(P)	22 23 17.2
BOZ E(P)	22 23 28.5
AUG 23	
TUC E(P)	22 45 14.5
AUG 23	
H-23 12 28.1	
16.2N 095.5W	
h ABOUT 44KM	
ALQ IP	23 17 10.8
TUC EP	23 17 12.0
E	17 29.5
F	18 33.5
EUR IP	23 18 28.9
HHM E(P)	23 19 21.2
BOZ E(P)	23 19 54.5
E	21 16.0
AUG 23	
H-23 13 45.7	
16.0N 095.4W	
h ABOUT 27KM	
BCN EP	23 19 24.7
SJG EP	23 19 39.0
EUR EP	23 19 49.0
COL IP	23 23 50.7
AUG 23	
SLC IP	23 16 43.0
AUG 23	
EUR IP	23 17 32.8
BOZ E(P)	23 18 03.0
AUG 24	
TUC E(P)	00 00 19.5
AUG 24	
TUC F(P)	00 02 13.0

Date and Station	Phase (GCT)
	h m s
AUG 24	
H-00 56 21.3	
16.0N 096.2W	
h ABOUT 10KM	
RHP IP	01 00 30.0
TUC IP C	01 01 07.7
ES	05 04.0
ALQ IP	01 01 08.2
CSC EP	01 01 22.0
ES	05 36.0
GCA EP	01 01 50.8
BCN EP	01 01 56.9
EL	10 12.5
CHK EP	01 02 04.7
ES	06 39.9
WSC EP	01 02 16.5
ES	06 52.4
E	07 39.9
SLC EP	01 02 16.7
IS	06 52.1
WAS E(P)	01 02 17.0
E(S)	06 51.0
PHI E(P)	01 02 20.9
E	02 37.1
SJG EP	01 02 22.0
EUR IP	01 02 25.1
IS	07 00.2
BOZ IP D	01 02 52.8
BUT EP	01 02 57.5
ES	08 19.5
COL IP	01 06 27.4
HON ES	01 14 34.0
EL	21 14.0
AUG 24	
EUR IP	00 59 18.4
AUG 24	
H-01 01 01.0	
16.1N 096.2W	
h ABOUT 36KM	
TUC EP C	01 05 43.0
GCA IP	01 06 24.2
BCN EP C	01 06 32.0
EL	14 49.0
SJG IP	01 06 55.6
EUR IP	01 07 00.0
BOZ IP C	01 07 29.0
BUT IP	01 07 33.5

Date and Station	Phase (GCT)
	h m s
UKI E(P)	01 07 35.5
HHM EP C	01 07 55.2
EPP	08 57.2
E(S)	13 08.2
COL IP	01 11 03.0
HON ES	01 19 09.0
EL	25 48.0
AUG 24	
BCN EP	01 07 39.3
SJG EP	01 09 20.0
AUG 24	
H-01 11 04.4	
35.7N 023.5E	
h ABOUT 32KM	
HHM EP	01 23 55.2
AUG 24	
ALQ IP	01 47 31.4
TUC EP C	01 47 32.6
BOZ E(P)	01 48 16.0
EUR E(P)	01 48 49.0
AUG 24	
GUA IP	01 50 02.0
E(S)	54 11.0
AUG 24	
GUA IP	04 21 56.0
IS	22 30.0
AUG 24	
H-05 46 02.1	
06.3S 152.2E	
h ABOUT 33KM	
COL IP	05 58 27.0
EUR IP	05 59 26.1
AUG 24	
H-07 06 50.3	
21.9S 177.2W	
h ABOUT 291KM	
KIP IP	07 14 53.3
UKI EP	07 18 24.5
BCN IP	07 18 42.5
IPCP	18 49.3
IPP	19 51.0
TUC IP D	07 18 47.5
E(S)	28 49.0
FUR IP	07 18 48.0
SIT EP	07 19 00.0
COL IP	07 19 13.4
BUT IP	07 19 15.3
EPP	20 27.7

Date and Station	Phase (GCT)
	h m s
HHM FP	07 19 16.7
EPP	22 51.2
BOZ IP D	07 19 17.7
EPP	20 24.0
AUG 24	
H-07 10 15.1	
15.6N 095.6W	
h ABOUT 33KM	
TUC E(P)	07 15 03.5
ALQ EP	07 15 04.5
BCN E(P)	07 15 53.0
AUG 24	
BUT EP	07 22 48.2
COL EP	07 24 33.0
AUG 24	
EUR E(P)	07 48 09.4
TUC F(P)	07 48 09.5
AUG 24	
H-08 25 24.3	
15.9N 096.0W	
h ABOUT 33KM	
TUC EP	08 30 08.5
EL	36 12.0
BCN EP	08 30 57.7
EUR E(P)	08 31 26.1
AUG 24	
H-09 50 33.6	
33.7S 072.0W	
h ABOUT 48KM	
SJG EP	09 59 37.8
TUC E(P)	10 02 12.0
ALQ EP	10 02 15.2
BCN EP	10 02 41.8
BUT EP	10 03 17.8
F	07 45.8
AUG 24	
HHM IP	10 00 38.3
IL	00 49.2
BOZ E(P)	10 01 15.0
FUR IP	10 02 29.9
AUG 24	
SIT EP	11 31 34.8
AUG 24	
TUC F(P)	12 50 58.0
AUG 24	
H-13 12 21.1	
59.4N 145.8W	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
SIT E(P)	13 13 41.8
COL IP	13 13 43.6
I	13 53.4
HHM IP	13 17 08.2
ES	21 05.2
EL	24 00.0
BUT EP	13 17 30.7
E	17 34.7
ES	21 45.7
BOZ EP	13 17 39.2
ES	22 01.0
UKI E(P)	13 17 42.0
EUR EP	13 18 05.7
I(PP)	19 04.1
BCN EP	13 18 37.0
ALQ IP	13 19 15.4
TUC EP	13 19 19.0
ES	25 02.0
WAS EP	13 20 49.0
WSC EP	13 20 52.9
E(L)	37 23.8
E	44 01.9
CSC E(P)	13 21 06.0
SJG E(P)	13 23 29.2
PHI E	13 24 10.4
E	27 51.8
HON ES	13 25 53.0
EL	28 37.0
AUG 24	
ALQ EP	13 15 15.5
AUG 24	
KIP EP	14 00 38.6
AUG 24	
H-14 03 16.0	
3.2S 141.0E	
h ABOUT 54KM	
SJG EP'	14 23 03.0
AUG 24	
COL EP	14 56 57.0
AUG 24	
EUR E(P)	15 03 45.7
COL EP	15 04 26.0
AUG 24	
EUR IP	15 29 38.5
AUG 24	
H-15 46 49.6	
3.9S 151.3E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
GUA E(P)	15 51 00.0
ES	54 22.0
EUR IP	16 00 12.2
AUG 24	
COL EP	15 56 58.5
AUG 24	
EUR EP	17 36 30.5
AUG 24	
EUR EP	18 13 09.0
AUG 24	
EUR I(P)	18 49 18.0
AUG 24	
H-19 26 31.2	
10.9S 162.4E	
h ABOUT 66KM	
COL EP	19 38 54.0
EUR IP	19 39 27.3
BOZ EP	19 39 47.5
AUG 24	
EUR IP	19 32 30.6
AUG 24	
H-19 39 28.6	
53.7N 177.4W	
h ABOUT 126KM	
COL EP	19 43 38.0
BOZ EP	19 47 08.0
EUR EP	19 47 19.1
AUG 24	
KIP EP	19 56 01.9
AUG 24	
BOZ E(P)	21 39 07.0
EL	40 18.5
AUG 24	
H-22 22 21.2	
25.0S 179.1W	
h ABOUT 393KM	
EUR IP	22 34 25.0
AUG 24	
ALQ IP	22 27 30.4
AUG 24	
EGU E(P)	22 40 37.5
EUR EP	22 40 51.0
AUG 24	
H-23 57 33.9	
40.3N 026.1E	
h ABOUT 18KM	
BOZ EP	24 10 17.5
EUR I(P)	24 10 50.9

Date and Station	Phase (GCT)
	h m s
AUG 25	
EUR IP	00 30 33.5
AUG 25	
EUR I(P)	01 17 45.0
AUG 25	
H-03 00 30.2	
19.9S 176.1W	
h ABOUT 261KM	
TUC EP	03 12 19.5
EUR IP	03 12 19.8
BOZ EP	03 12 50.0
E	13 07.0
AUG 25	
HON EP	03 27 36.5
KIP E(P)	03 27 36.8
AUG 25	
EUR IP	04 27 35.9
AUG 25	
H-04 57 45.1	
34.7N 025.1E	
h ABOUT 9KM	
WSC E(P)	05 09 47.6
COL EP	05 10 00.0
HHM E(P)	05 10 44.3
BOZ E(P)	05 10 50.0
AUG 25	
EUR EP	05 16 02.9
AUG 25	
EUR EP	05 29 41.0
AUG 25	
EUR EP	06 37 48.2
AUG 25	
EUR EP	09 08 44.2
AUG 25	
BOZ E(P)	09 15 28.5
AUG 25	
TUC EP	09 38 02.0
E	38 19.2
BCN EP	09 38 13.2
EL	39 42.0
EUR EP	09 39 08.7
I	39 50.3
AUG 25	
ALQ IP	09 51 15.4
AUG 25	
EUR IP	10 30 21.0
AUG 25	
SJG EP	11 07 33.5
ALQ EP	11 10 12.6

Date and Station	Phase (GCT)
	h m s
BOZ EP	11 11 39.0
EUR IP	11 11 41.2
AUG 25	
HON E(P)	11 35 06.0
KIP E(P)	11 35 12.2
AUG 25	
H-12 38 41.1	
23.0S 175.9W	
h ABOUT 66KM	
TUC EP	12 51 01.9
EUR IP	12 51 04.3
ALQ IP	12 51 23.6
COL EP	12 51 34.0
AUG 25	
EUR IP	12 55 25.2
AUG 25	
KIP EP	13 00 28.0
HON EP	13 00 28.8
AUG 25	
COL EP	13 34 45.0
EUR IP	13 39 48.0
AUG 25	
COL EP	13 46 47.0
AUG 25	
H-14 27 39.7	
22.1S 114.2W	
h ABOUT 33KM	
EUR IP	14 37 54.6
HHM E(P)	14 38 50.7
AUG 25	
EUR EP	14 33 40.1
EL	33 58.9
AUG 25	
ALQ EP	14 37 07.0
AUG 25	
H-14 50 36.0	
17.5S 069.8W	
h ABOUT 147KM	
SJG EP	14 57 18.0
EpP	57 53.3
IS	15 02 39.5
ALQ IP	15 00 47.0
IpP	01 23.5
TUC EP D	15 00 51.0
BCN EP	15 01 23.7
EpP	02 00.7
EUR IP	15 01 42.1

Date and Station	Phase	(GCT) h m s
BOZ	IP	15 01 54.0
	IPP	02 31.0
HHM	EP	15 02 11.9
	EPP	02 48.0
AUG 25		
BOZ	EP	14 53 34.0
AUG 25		
BUT	EP	16 01 21.3
AUG 25		
GUA	IP	16 09 43.0
	ES	09 50.0
AUG 25		
H-16 10 37.3		
52.0N 168.0W		
h ABOUT 33KM		
COL	EP	16 14 29.0
BOZ	EP	16 17 45.0
EUR	IP	16 17 51.2
AUG 25		
COL	EP	17 08 39.0
EUR	IP	17 10 38.8
AUG 25		
EUR	IP	17 37 48.2
AUG 25		
GUA	IP	18 59 00.2
	ES	59 33.0
AUG 25		
BOZ	EP	19 18 23.0
AUG 25		
EUR	IP	19 40 50.6
AUG 25		
TUC	EP	19 59 35.4
AUG 25		
TUC	E(P)	20 46 52.0
EUR	E(P)	20 47 51.0
AUG 25		
GUA	IP	20 53 04.5
	ES	53 19.1
AUG 25		
GUA	IP	21 38 37.0
	E(S)	38 51.0
AUG 25		
BOZ	EP	22 34 53.5
AUG 25		
EUR	IP	23 43 31.0
AUG 26		
H-04 15 45.0		
34.9N 141.6E		
h ABOUT 42KM		
COL	E(P)	04 24 43.0
AUG 26		
H-04 29 22.3		
33.1N 115.9W		
h ABOUT 16KM		
BCN	EPG	04 30 17.5
	EL	31 01.0
EUR	E(P)	04 30 58.5
	E	31 10.0
	E	31 22.0
AUG 26		
H-05 00 46.2		
60.9N 149.5W		
h ABOUT 33KM		
COL	IP	05 01 46.6
AUG 26		
H-05 14 26.1		
33.1N 115.9W		
h ABOUT 16KM		
BCN	E(P)	05 15 22.5
	EL	16 05.5
EUR	E(P)	05 16 02.0
AUG 26		
H-05 28 06.0		
33.1N 115.9W		
h ABOUT 16KM		
TUC	E(P)	05 29 29.8
EUR	E(P)	05 29 41.0
BOZ	E(P)	05 31 18.5
	E	31 33.5
AUG 26		
COL	EP	05 29 42.0
AUG 26		
ALQ	EP	06 00 53.0
AUG 26		
H-06 36 11.9		
33.1N 115.9W		
h ABOUT 16KM		
BCN	E(P)	06 37 10.0
	EL	37 52.0
TUC	E(P)	06 37 20.0
EUR	E(P)	06 37 48.0
AUG 26		
COL	EP	07 48 24.8
AUG 26		
FGU	E(P)	08 19 46.7
AUG 26		
H-09 38 30.7		
31.9N 116.3W		
h ABOUT 33KM		
TUC	E(P)	09 39 41.2
AUG 26		
EUR	IP	09 38 43.5
AUG 26		
COL	EP	10 08 44.6
AUG 26		
H-10 17 22.2		
15.5S 167.2E		
h ABOUT 38KM		
COL	EP	10 30 03.0
AUG 26		
TUC	E(P)	10 43 14.0
	E	43 29.5
	EL	44 26.0
ALQ	E(P)	10 44 14.6
AUG 26		
H-12 53 50.6		
33.2N 116.0W		
h ABOUT 16KM		
BCN	EP	12 54 37.0
	IPG	54 45.8
	IL	55 27.5
TUC	EP	12 54 57.0
	EL	56 07.0
EUR	IPN	12 55 25.4
	IPG	55 48.8
ALQ	E(P)	12 55 50.5
AUG 26		
H-13 38 13.1		
33.2N 116.0W		
h ABOUT 16KM		
BCN	IP	13 39 00.5
	IPG	39 09.0
	IL	39 51.5
TUC	EP	13 39 19.9
	EL	40 22.0
EUR	IPN	13 39 48.0
	IPG	40 09.2
	EL	41 32.5
ALQ	IP	13 40 12.2
	IL	42 38.5
FGU	E(P)	13 40 26.5
HHM	E(P)	13 41 55.2
SLC	E	13 42 49.7
AUG 26		
BCN	E(P)	13 45 18.0
	EL	45 57.5
TUC	E(P)	13 45 51.2
AUG 26		
BCN	E(P)	13 46 20.5
	EL	47 00.0
EUR	IP	13 46 20.9
AUG 26		
H-13 46 35.3		
33.3N 115.9W		
h ABOUT 16KM		
BCN	E(P)	13 47 28.3
	EL	48 10.0
EUR	IPN	13 48 08.0
	IPG	48 32.3
	EL	49 56.0
AUG 26		
H-13 49 25.0		
33.1N 116.0W		
h ABOUT 16KM		
BCN	E(P)	13 50 21.2
	IL	51 00.5
TUC	E(P)	13 50 58.0
EUR	EPN	13 51 05.9
	IPG	51 24.9
	ILG	52 46.3
AUG 26		
H-14 44 22.9		
29.7N 140.3E		
h ABOUT 85KM		
GUA	EP	14 48 12.0
COL	E(P)	14 53 51.3
AUG 26		
H-15 02 02.7		
29.8N 140.6E		
h ABOUT 94KM		
GUA	EP	15 05 51.7
COL	EP	15 11 30.5
HHM	E(P)	15 13 48.7
BOZ	EP	15 14 06.5
AUG 26		
H-15 06 48.4		
51.1N 178.1E		
h ABOUT 33KM		
COL	IP	15 11 45.2
BOZ	EP	15 15 05.0
EUR	IP	15 15 14.0
TUC	E(P)	15 16 12.0
ALQ	I(P)	15 16 18.5
AUG 26		
H-15 09 29.4		
29.9N 141.6E		
h ABOUT 35KM		
GUA	EP	15 13 20.8
COL	EP	15 19 00.5
AUG 26		
TUC	E(P)	16 28 07.8

Date and Station	Phase (GCT)
	h m s
COL EP	16 28 19.8
AUG 26	
EUR EP	17 40 10.6
AUG 26	
EUR IP	17 47 45.9
AUG 26	
H-18 03 22.3	
50.8N 157.3E	
h ABOUT 33KM	
COL EP	18 09 41.0
EUR EP	18 13 20.4
AUG 26	
EUR IP	21 55 27.8
AUG 26	
EUR EP	23 16 13.8
AUG 27	
BOZ EP	02 39 10.5
EUR IP	02 39 20.1
AUG 27	
KIP E(P)	04 19 15.4
HON E(P)	04 19 16.1
AUG 27	
HHM EP	06 03 12.5
AUG 27	
EUR E(P)	06 08 30.9
AUG 27	
TUC E(P)	06 13 42.7
E	14 53.9
AUG 27	
H-06 33 36.5	
15.9S 174.2W	
h ABOUT 128KM	
COL EP	06 45 48.5
BOZ EP	06 45 51.0
AUG 27	
H-07 10 57.1	
27.8N 142.6E	
h ABOUT 33KM	
EUR IP	07 23 09.9
AUG 27	
H-07 51 34.2	
15.1N 092.7W	
h ABOUT 128KM	
ALQ IP	07 56 32.0
TUC IP	07 56 36.5
BCN EP	07 57 21.7
FGU EP	07 57 27.7
EUR IP	07 57 48.2

Date and Station	Phase (GCT)
	h m s
BOZ EP	07 58 11.0
COL EP	08 01 42.2
AUG 27	
BCN EPG	08 12 02.0
EL	13 42.5
AUG 27	
H-08 35 04.4	
15.8N 096.1W	
h ABOUT 33KM	
ALQ IP	08 39 49.4
E	40 10.4
FGU EP	08 40 49.3
EUR IP	08 41 06.2
BOZ EP	08 41 34.5
AUG 27	
TUC E(P)	08 37 48.5
E(S)	46 11.0
AUG 27	
H-08 42 44.1	
15.4N 092.8W	
h ABOUT 73KM	
TUC EP	08 47 48.5
EUR IP	08 49 00.9
AUG 27	
H-10 01 15.2	
33.0N 115.9W	
h ABOUT 16KM	
BCN E(P)	10 02 15.0
EL	02 58.0
AUG 27	
GUA EP	10 08 30.5
AUG 27	
H-10 11 13.3	
33.1N 115.9W	
h ABOUT 14KM	
BCN E(P)	10 12 12.0
EL	12 56.0
TUC E(P)	10 12 28.5
EUR E(P)	10 13 10.5
AUG 27	
EUR IP	10 41 24.2
AUG 27	
HHM EP	13 29 34.9
AUG 27	
H-13 51 14.2	
37.1N 116.1W	
h ABOUT 0KM	
BCN EP	13 51 42.0
EL	52 02.5
EUR IP	13 51 53.6

Date and Station	Phase (GCT)
	h m s
TUC E(P)	13 52 54.0
ALQ EP	13 53 21.2
BOZ E(P)	13 53 34.0
AUG 27	
BOZ EP	14 08 26.0
AUG 27	
H-14 53 01.8	
59.6N 145.1W	
h ABOUT 39KM	
COL IP	14 54 23.5
HHM EP	14 57 46.9
BOZ EP	14 58 17.0
AUG 27	
H-15 31 03.0	
51.1N 178.8E	
h ABOUT 39KM	
COL EP	15 35 56.0
HHM EP	15 38 52.4
BOZ EP	15 39 15.8
IPP	39 28.0
EUR IP	15 39 24.2
AUG 27	
EUR EP	16 21 09.5
AUG 27	
GUA IP	16 58 00.0
IS	58 07.0
AUG 27	
EUR IP	16 58 28.0
TUC E(P)	16 58 32.5
AUG 27	
H-18 22 07.0	
44.6N 149.1E	
h ABOUT 75KM	
HHM EP	18 32 24.9
EPP	32 35.9
BOZ IP	18 32 44.0
IPP	32 55.5
ISP	33 04.5
EUR IP	18 32 52.8
FGU EP	18 33 09.0
TUC EP	18 33 39.8
ALQ IP	18 33 45.4
AUG 27	
ALQ IP	18 27 06.0
AUG 27	
EUR IP	19 07 24.5
AUG 27	
EUR IP	19 26 53.9

Date and Station	Phase (GCT)
	h m s
AUG 27	
EUR I(P)	19 47 49.0
AUG 27	
ALQ E(P)	19 58 06.0
AUG 27	
FGU EP	20 33 11.7
AUG 27	
H-21 39 30.5	
16.0N 096.0W	
h ABOUT 33KM	
TUC E(P)	21 44 14.1
ALQ I(P)	21 44 15.6
AUG 27	
EUR IP	22 39 16.0
AUG 27	
H-22 52 37.1	
49.7N 155.7E	
h ABOUT 69KM	
COL EP	22 59 05.0
BOZ IP	23 02 29.9
FUR IP	23 02 40.7
AUG 27	
EUR IP	23 18 17.2
AUG 27	
BOZ EP	23 38 28.5
EUR IP	23 38 54.1
AUG 27	
FGU EP	23 50 19.5
AUG 28	
TUC EP	00 04 42.5
AUG 28	
H-00 47 21.4	
11.9N 141.1E	
h ABOUT 153KM	
GUA IP	00 48 24.0
IS	49 12.0
EUR E(P)	01 00 16.0
AUG 28	
H-03 45 29.9	
16.0N 095.6W	
h ABOUT 71KM	
ALQ IP	03 50 12.4
TUC IP C	03 50 12.7
E	56 50.0
FGU EP	03 51 11.3
EUR E(P)	03 51 29.9
AUG 28	
EUR IP	04 14 44.8

Date and Station	Phase (GCT)
	h m s
AUG 28	
EUR IP	04 19 22.0
AUG 28	
ALQ EP	07 19 10.0
AUG 28	
H-07 50 42.6	
51.5N 159.3E	
h ABOUT 51KM	
COL E(P)	07 56 47.0
BOZ EP	08 00 16.5
EUR IP	08 00 29.0
AUG 28	
COL E(P)	08 52 54.5
AUG 28	
H-10 40 11.2	
10.2S 123.7E	
h ABOUT 33KM	
EUR IP'	10 59 01.9
BOZ EP'	10 59 05.0
AUG 28	
SJG IP C	13 53 06.0
IS	53 35.2
AUG 28	
COL E(P)	15 13 16.8
AUG 28	
TUC E(P)	18 03 30.0
AUG 28	
H-18 31 11.5	
27.6S 177.9W	
h ABOUT 205KM	
TUC IP C	18 43 37.3
E(pP)	44 21.4
EUR IP	18 43 40.5
AUG 28	
H-19 49 57.0	
5.7S 152.9E	
h ABOUT 70KM	
GUA IP	19 54 35.0
ES	58 16.0
COL IP	20 02 12.2
AUG 28	
H-20 37 56.1	
53.9N 164.8W	
h ABOUT 25KM	
EUR IP	20 44 54.7
TUC EP	20 46 00.9
AUG 28	
COL EP	20 40 42.0
AUG 28	
COL IP	22 05 47.7

Date and Station	Phase (GCT)
	h m s
AUG 28	
EUR IP	23 02 11.5
AUG 28	
H-23 58 59.5	
15.9S 173.1W	
h ABOUT 44KM	
TUC E(P)	24 10 47.0
COL IP	24 11 20.0
AUG 29	
COL EP	01 17 17.0
AUG 29	
H-01 26 07.6	
14.8N 091.5W	
h ABOUT 33KM	
EUR IP	01 32 40.0
AUG 29	
H-01 45 54.4	
14.0N 090.6W	
h ABOUT 85KM	
BHP E(P)	01 48 48.5
CSC EP	01 50 42.0
F	50 50.5
ES	54 40.0
SJG EP	01 51 00.5
IPCP	54 43.5
ES	55 42.0
EL	57 31.0
ALQ IP	01 51 15.5
TUC IP C	01 51 21.2
ES	55 48.0
WAS EP	01 51 34.0
E(S)	56 26.0
BCN EP	01 52 06.0
EPCP	55 01.0
FGU EP	01 52 06.8
SLC EP	01 52 20.1
BUT E(P)	01 52 51.8
BOZ IP	01 52 52.0
EPP	54 18.0
ES	58 22.0
COL EP	01 56 18.0
KIP E(P)	01 56 40.9
EL	02 11 23.1
AUG 29	
H-02 32 51.3	
14.0N 090.9W	
h ABOUT 28KM	
TUC EP	02 38 21.6
BCN EP	02 39 06.0
EUR IP	02 39 32.0

Date and Station	Phase (GCT)
	h m s
AUG 29	
H-02 35 01.5	
19.1S 167.6E	
h ABOUT 33KM	
COL EP	02 48 00.0
EUR IP	02 48 09.0
TUC EP	02 48 14.8
E	48 25.0
AUG 29	
GUA EP	02 40 30.0
AUG 29	
H-03 00 19.7	
45.7N 111.6W	
h ABOUT 17KM	
BOZ IP	03 00 24.2
IS	00 31.5
BZM E(P)	03 00 30.5
BUT E(P)	03 00 31.7
IL	00 44.8
HHM E(P)	03 01 09.6
AUG 29	
H-03 30 38.3	
51.3N 177.6W	
h ABOUT 34KM	
COL E(P)	03 35 16.0
EUR EP	03 38 41.5
AUG 29	
EUR EP	04 08 35.9
AUG 29	
ALQ IP	05 31 36.2
EUR E(P)	05 33 04.0
AUG 29	
H-06 19 23.8	
51.6N 173.4E	
h ABOUT 8KM	
COL IP	06 24 38.5
EUR IP	06 28 13.5
AUG 29	
FGU EP	07 29 53.7
EUR IP	07 30 46.8
AUG 29	
ALQ IP	07 31 49.4
AUG 29	
H-08 41 55.1	
21.2S 179.2W	
h ABOUT 615KM	
COL IP	08 53 46.5
AUG 29	
TUC E(P)	09 06 34.9

Date and Station	Phase (GCT)
	h m s
AUG 29	
COL IP	09 45 05.7
AUG 29	
H-10 31 27.4	
04.1S 140.2E	
h ABOUT 32KM	
KIP EP	10 42 10.8
COL EP	10 44 06.0
AUG 29	
EUR IP	10 52 31.2
AUG 29	
COL EP	11 44 24.0
AUG 29	
COL EP	12 08 18.0
AUG 29	
H-12 46 30.1	
15.7S 167.6E	
h ABOUT 10KM	
GUA EP	12 53 43.0
ES	59 14.0
KIP E(P)	12 55 31.9
COL EP	12 59 17.0
EUR IP	12 59 30.0
ALQ I(P)	13 00 02.0
I	08 59.8
BOZ E(P)	13 00 06.0
HON E(S)	13 02 35.0
EL	06 50.0
AUG 29	
H-12 55 35.9	
15.8S 167.6E	
h ABOUT 33KM	
KIP IP	13 04 28.3
EUR IP	13 08 33.0
TUC EP	13 08 41.3
FGU EP	13 08 55.0
BOZ EP	13 08 56.0
E	11 10.0
AUG 29	
H-13 39 20.4	
39.1N 023.9E	
h ABOUT 33KM	
BOZ EP	13 52 03.2
AUG 29	
H-13 47 46.8	
15.9S 167.6E	
h ABOUT 3KM	
COL EP	14 00 38.0
EUR IP	14 00 48.1

Date and Station	Phase (GCT)
	h m s
AUG 29	
EUR IP	13 51 39.1
IL	52 09.5
AUG 29	
H-13 57 23.5	
17.6S 179.1W	
h ABOUT 614KM	
GUA IP	14 05 04.5
EUR IP	14 08 40.7
TUC IP C	14 08 43.0
EPP	10 44.0
COL IP	14 08 58.0
ALQ IP	14 09 03.5
IPP	11 08.8
BUT IP	14 09 06.7
EPP	11 10.7
HHM EP	14 09 07.2
BOZ IP	14 09 09.5
IPP	11 13.5
AUG 29	
H-14 08 02.2	
15.8S 167.6E	
h ABOUT 11KM	
COL E(P)	14 20 50.0
EUR IP	14 21 02.8
TUC E(P)	14 21 10.0
AUG 29	
TUC E(P)	14 37 50.7
AUG 29	
COL EP	15 48 48.0
AUG 29	
H-15 58 03.9	
35.6N 140.3E	
h ABOUT 87KM	
COL EP	16 06 57.0
BOZ EP	16 09 45.2
EUR IP	16 09 51.5
AUG 29	
COL EP	16 57 41.1
AUG 29	
BOZ EP	17 24 22.5
AUG 29	
H-17 25 24.2	
19.6S 176.2W	
h ABOUT 311KM	
TUC E(P)	17 37 07.0
E	37 13.5
EUR E(P)	17 37 08.0
COL IP	17 37 35.0
BOZ EP	17 37 37.3
AUG 29	
H-18 25 15.7	
39.7N 122.1W	
h ABOUT 33KM	
UKI E(P)	18 25 34.0
EUR IP	18 26 26.7
BOZ E(P)	18 27 36.0
AUG 29	
H-18 31 24.6	
15.7S 167.6E	
h ABOUT 14KM	
EUR IP	18 44 24.2
AUG 29	
H-18 38 21.7	
15.8S 167.5E	
h ABOUT 4KM	
EUR IP	18 51 23.0
AUG 29	
SLC EP	18 46 14.9
AUG 29	
H-19 49 22.9	
16.4S 167.1E	
h ABOUT 101KM	
COL EP	20 02 01.0
AUG 29	
EUR IP	21 30 09.0
AUG 29	
ALQ IP	21 45 11.0
I	47 22.6
AUG 29	
EUR IP	23 03 43.6
AUG 30	
EUR EP	00 22 39.4
AUG 30	
SJG IP C	00 42 27.4
I	42 37.5
IS	42 50.0
AUG 30	
H-00 43 13.2	
37.4N 113.2W	
h ABOUT 33KM	
GCA IP	00 43 36.0
BCN EP	00 43 45.5
IL	44 13.0
EUR IP	00 43 59.8
TUC E(P)	00 44 33.0
E	44 49.5
E(L)	45 59.0
ALQ IP	00 44 42.2
E	45 02.0
AUG 30	
H-00 56 07.2	
16.9S 167.2E	
h ABOUT 20KM	
GUA EP	01 03 22.0
ES	09 09.0
COL EP	01 08 57.2
EUR IP	01 09 10.2
TUC E(P)	01 09 18.0
SJG EP'	01 15 15.3
E	15 22.9
AUG 30	
SJG EP	01 03 48.0
IS	04 10.0
AUG 30	
COL EP	01 08 37.2
AUG 30	
H-01 26 05.2	
16.9S 167.4E	
h ABOUT 33KM	
COL E(P)	01 39 02.7
EUR IP	01 39 05.2
AUG 30	
COL EP	01 41 03.5
AUG 30	
H-02 16 39.9	
17.1S 167.2E	
h ABOUT 18KM	
EUR IP	02 29 46.0
AUG 30	
SJG IP	03 05 12.0
IL	05 41.0
AUG 30	
H-03 32 01.5	
16.9S 167.4E	
h ABOUT 10KM	
GUA EP	03 39 19.0
FS	45 04.0
HON EP	03 41 03.0
EUR IP	03 45 05.0
TUC E(P)	03 45 14.4
ESKS	55 50.0
ALQ E(P)	03 45 32.5
SJG EP'	03 51 09.5
ESKP	54 31.0
AUG 30	
H-03 48 00.1	
16.8S 167.4E	
h ABOUT 12KM	
EUR E(P)	04 01 03.3
AUG 30	
HON E(P)	04 41 04.0
ES	48 38.0
EL	52 39.0
AUG 30	
H-05 17 37.9	
32.1N 102.3W	
h ABOUT 33KM	
ALQ E(P)	05 18 44.5
EL	19 35.0
AUG 30	
H-05 44 51.0	
16.8S 167.5E	
h ABOUT 10KM	
EUR EP	05 57 59.0
AUG 30	
H-07 49 49.6	
18.7N 145.4E	
h ABOUT 202KM	
GUA EP	07 51 06.9
ES	52 03.0
EUR IP	08 02 02.6
BOZ EP	08 02 06.0
EPP	02 52.0
AUG 30	
SJG EP	08 11 48.5
AUG 30	
BUT E(P)	09 24 36.4
AUG 30	
H-09 28 19.5	
08.8S 117.5E	
h ABOUT 39KM	
EUR IP'	09 47 14.7
ALQ IP'	09 47 14.8
E	47 32.2
ISKP	50 45.6
BOZ IP'	09 47 16.0
E	47 41.5
AUG 30	
EUR E(P)	11 35 23.3
AUG 30	
GUA IP	12 04 50.0
IS	05 08.0
AUG 30	
COL EP	12 47 15.9
AUG 30	
GUA IP	13 55 22.0
IS	55 40.0
COL EP	14 02 12.8
EUR IP	14 02 44.0

Date and Station	Phase	(GCT)
		h m s
AUG 30		
H-14 00 55.5		
5.5N 125.9E		
h ABOUT 118KM		
COL	E(P)	14 13 10.5
	F	14 15.0
AUG 30		
GUA	EP	17 32 26.0
	IS	32 44.0
AUG 30		
GUA	EP	17 57 19.0
	E(S)	57 38.0
AUG 30		
H-18 09 45.2		
6.4S 104.8E		
h ABOUT 81KM		
HHM	EP'	18 28 43.3
BOZ	EP'	18 28 49.0
	E	30 22.0
EUR	IP'	18 28 51.3
ALQ	IP'	18 29 02.8
	ISKP	32 40.0
CSC	EP'	18 29 28.0
AUG 30		
EUR	IP	20 17 28.9
AUG 30		
EUR	IP	20 58 37.2
AUG 30		
EUR	EP	21 14 45.2
AUG 30		
EUR	IP	22 02 14.6
AUG 30		
COL	IP	22 47 11.0
AUG 30		
EUR	IP	23 42 17.7
AUG 31		
EUR	I(P)	00 00 44.0
AUG 31		
GUA	IP	00 11 28.0
	IS	11 44.0
AUG 31		
EUR	EP	00 25 26.3
AUG 31		
H-01 09 23.0		
51.0N 128.6W		
h ABOUT 33KM		
COL	IP	01 13 21.8
TUC	EP	01 14 23.0
AUG 31		
BOZ	E(P)	01 12 37.0
AUG 31		
GUA	IP	01 52 04.0
	IS	52 57.0
AUG 31		
COL	IP	02 39 46.2
BOZ	IP	02 42 44.6
	I	42 53.0
EUR	IP	02 42 53.2
AUG 31		
EUR	E(P)	02 52 00.9
AUG 31		
GUA	EP	02 56 30.5
AUG 31		
COL	IP	03 04 13.2
AUG 31		
TUC	E(P)	03 13 19.0
AUG 31		
GUA	IP	03 32 12.2
	E(S)	32 29.0
AUG 31		
GUA	IP	03 50 53.0
	IS	51 10.0
EUR	IP	04 03 27.5
AUG 31		
TUC	E(P)	04 08 25.6
AUG 31		
GUA	IP	04 11 10.0
	IS	11 28.0
AUG 31		
EUR	E(P)	04 23 44.1
AUG 31		
TUC	E(P)	04 35 10.8
AUG 31		
EUR	IP	04 40 32.2
AUG 31		
EUR	IP	05 07 40.5
AUG 31		
UKI	E(P)	05 38 45.0
AUG 31		
COL	E(P)	06 09 08.2
AUG 31		
COL	EP	07 41 34.0
HHM	IP	07 42 42.2
CSC	E(P)	07 42 43.0
BOZ	EP	07 42 57.2
EUR	IP	07 43 29.2
AUG 31		
H-07 48 56.5		
43.3N 144.5E		
h ABOUT 27KM		
COL	EP	07 56 51.0
BOZ	EP	07 59 59.5
	I	08 00 20.0
EUR	IP	08 00 08.9
TUC	E(P)	08 00 54.4
ALQ	IP	08 01 00.6
AUG 31		
H-08 04 32.7		
43.4N 144.5E		
h ABOUT 19KM		
COL	EP	08 12 27.0
BOZ	EP	08 15 36.0
EUR	IP	08 15 45.8
TUC	EP	08 16 31.7
ALQ	IP	08 16 36.2
AUG 31		
EUR	EP	08 52 35.0
AUG 31		
H-09 12 00.2		
00.8N 027.8W		
h ABOUT 33KM		
SJG	EP	09 19 43.5
	FPCP	21 27.7
	ES	26 00.0
ALQ	IP	09 24 09.6
SLC	E(P)	09 24 34.0
GCA	EP	09 24 34.7
BOZ	EP	09 24 36.0
HHM	EP	09 24 42.3
EUR	IP	09 24 52.6
AUG 31		
H-09 46 00.9		
51.5N 175.5E		
h ABOUT 33KM		
COL	E(P)	09 51 04.0
EUR	E(P)	09 54 36.3
AUG 31		
H-09 51 27.0		
12.5N 144.0E		
h ABOUT 35KM		
GUA	IP	09 51 49.5
	ES	52 06.0
EUR	IP	10 04 24.1
AUG 31		
TUC	E(P)	09 54 05.5
AUG 31		
GUA	E(P)	09 56 05.0
EUR	E(P)	10 08 39.4
AUG 31		
TUC	E(P)	10 39 49.0
AUG 31		
COL	IP	10 51 03.7
AUG 31		
SJG	EP	10 58 51.0
	IL	59 32.0
AUG 31		
EUR	IP	11 20 58.5
AUG 31		
H-11 26 22.7		
43.3N 126.0W		
h ABOUT 33KM		
EUR	IP	11 28 28.0
BOZ	EP	11 28 54.0
ALQ	EP	11 30 22.5
AUG 31		
H-11 39 21.8		
52.3N 171.7E		
h ABOUT 33KM		
COL	IP	11 44 35.0
BOZ	IP	11 48 04.0
EUR	IP	11 48 14.5
TUC	EP	11 49 12.0
ALQ	IP	11 49 17.5
AUG 31		
TUC	E(P)	14 38 31.4
EUR	IP	14 39 00.0
AUG 31		
COL	EP	14 46 50.0
AUG 31		
H-14 47 46.1		
03.8N 082.1W		
h ABOUT 62KM		
SJG	E(P)	14 52 27.0
	E	52 36.5
BOZ	EP	14 56 28.5
AUG 31		
COL	IP	15 44 00.0
AUG 31		
BOZ	EP	16 23 37.0
	F	28 13.0
AUG 31		
H-16 36 35.8		
15.5S 166.8E		
h ABOUT 33KM		
EUR	IP	16 49 35.1
SJG	EP'	16 55 42.5

Date and Station	Phase (GCT)
	h m s
AUG 31	
EUR IP	17 33 06.7
AUG 31	
H-17 43 20.2	
16.1S 167.2E	
h ABOUT 10KM	
COL IP	17 56 09.3
AUG 31	
COL IP	17 49 19.1
AUG 31	
H-19 43 14.2	
17.1N 145.2E	
h ABOUT 334KM	
GUA IP	19 44 18.0
IS	45 06.0
HHM IP	19 55 11.2
EUR IP	19 55 19.0
BOZ EP	19 55 22.0
EPP	56 45.0
FGU IP	19 55 35.0
TUC E(P)	19 55 49.2
AUG 31	
H-20 24 23.0	
17.2N 098.5W	
h ABOUT 62KM	
TUC E(P)	20 28 38.5
ALQ IP	20 28 42.0
FGU IP	20 29 44.7
EUR IP	20 30 00.0
BOZ EP	20 30 31.5
COL FP	20 34 11.0
AUG 31	
COL IP	20 37 13.9
AUG 31	
COL IP	20 53 19.0
AUG 31	
SJG EP	21 35 44.4
I	35 47.5
IL	36 26.5
AUG 31	
BOZ IP	21 56 43.9
AUG 31	
EUR EP	22 05 04.8
AUG 31	
SJG EP	22 06 55.3
I	06 59.6
IL	07 38.6
AUG 31	
BCN IP	22 34 58.5
IS	35 10.5

Date and Station	Phase (GCT)
	h m s
AUG 31	
H-22 44 13.5	
18.0S 173.1W	
h ABOUT 33KM	
EUR IP	22 56 11.9
FGU EP	22 56 35.0
COL IP	22 56 47.5
AUG 31	
GUA IP	22 52 49.2
ES	53 08.0
AUG 31	
GUA IP	23 00 19.0
IS	00 48.0
AUG 31	
H-23 18 05.3	
13.4N 092.0W	
h ABOUT 26KM	
ALQ IP	23 23 30.8
TUC E(P)	23 23 33.0
BCN E(P)	23 24 19.8
FGU IP	23 24 24.0
EUR IP	23 24 45.5
BOZ EP	23 25 08.0
HHM EP	23 25 35.0
COL IP	23 28 36.0

Date and Station	Phase (GCT)
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	h m s