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SEISMOLOGICAL BULLETIN

COAST & GEODETIC SURVEY
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U. S. DEPARTMENT OF COMMERCE

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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

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COAST AND GEODETIC SURVEY—WASHINGTON

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SEISMOLOGICAL BULLETIN

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

Data are included for Shemya and Amchitka, which were in operation from March 7 and 10 to April 20 respectively to monitor the Near and Rat Islands aftershocks.

STATION AND INSTRUMENTAL CONSTANTS

Amchitka 51°24'35.0"N., 179°17'32.0"E.

Instrument		T_o	T_g	V
SPZ	Benioff VR	1.01	0.75	5800
SPN	Benioff VR	1.02	0.75	5900
SPE	Benioff VR	1.00	0.75	6300

Shemya 52°44'00.0"N., 174°08'00.0"E.

Instrument		T_o	T_g	V
SPZ	Benioff VR	1.0	0.75	9000
SPN	Benioff VR	1.0	0.75	9000
SPE	Benioff VR	1.0	0.75	9000

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 Administation
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
MAR	H M S	DEG	DEG	KM		
1	05 31 16*	2.6 S	139.6 E	33		NEAR N. COAST OF WEST NEW GUINEA.
1	07 20 55.3	5.5 S	152.1 E	35	5.7	NEW BRITAIN REGION. FELT AT RABAUL, DOILENE AND KARLAI. MAG. 5 1/4-5 3/4 (BRK), 5 3/4-6 (PAL).
1	07 28 08*	5.1 S	151.7 E	63	5.9	NEW BRITAIN REGION.
1	07 46 57.5	5.2 S	152.1 E	33	5.7	NEW BRITAIN REGION.
1	08 18 56.4	21.1 N	121.2 E	42	5.2	TAIWAN REGION.
1	09 04 35.5	29.0 S	69.8 W	103	4.9	CHILE-ARGENTINA BORDER REGION.
1	09 08 45.0	5.4 S	152.0 E	29	5.6	NEW BRITAIN REGION. FELT AT RABAUL, DOILENE AND KARLAI.
1	09 54 39*	52.0 N	173.9 E	25	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
1	10 19 45.7	5.2 S	151.9 E	59	4.8	NEW BRITAIN REGION.
1	10 24 12*	44.0 N	127.4 W	33	4.1	OFF COAST OF OREGON.
1	11 29 37.6	5.1 S	151.9 E	63	5.1	NEW BRITAIN REGION.
1	12 16 34*	51.1 N	178.6 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
1	13 20 56.7	21.2 N	121.2 E	42	5.5	TAIWAN REGION.
1	13 56 07*	61.7 N	147.7 W	43	4.0	SOUTHERN ALASKA.
1	15 10 35*	16.6 N	94.2 W	50	3.4	OAXACA, MEXICO.
1	15 17 46*	10.8 N	86.7 W	55	4.9	OFF COAST OF COSTA RICA. FELT AT MANAGUA, NICARAGUA.
1	15 54 23.5	41.4 S	85.6 W	33	5.2	WEST CHILE RISE.
1	16 32 19.4	6.0 S	102.7 E	87	4.7	SOUTHWEST OF SUMATRA.
1	18 27 07*	27.6 S	177.2 W	15	4.4	KERMADEC ISLANDS.
1	19 22 01.6	52.2 N	173.9 E	30	5.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
1	20 03 09.8	12.3 S	166.7 E	190	4.8	SANTA CRUZ ISLANDS.
1	21 27 50*	27.3 S	177.7 W	33		KERMADEC ISLANDS.
1	21 32 13.3	15.4 N	92.7 W	117	5.9	MEXICO-GUATEMALA BORDER REGION. FELT AT TUXTLA GUTIERREZ, MEXICO AND SAN SALVADOR. MAG. 6 (PAS), 5 1/2 (BRK), 5 3/4-6 (PAL).
1	21 52 04.4	23.5 S	179.0 E	541	5.2	SOUTH OF FIJI ISLANDS.
1	23 49 09*	51.6 N	172.7 E	35	4.8	NEAR ISLANDS, ALEUTIAN ISLANDS.
1	23 52 32.1	27.3 S	177.9 W	33	5.0	KERMADEC ISLANDS.
2	02 50 35.5	27.4 S	177.7 W	33	5.2	KERMADEC ISLANDS.
2	03 46 41.7	2.4 N	84.5 W	33	4.5	OFF COAST OF CENTRAL AMERICA.
2	04 40 13.1	27.1 S	177.6 W	33	4.8	KERMADEC ISLANDS.
2	05 10 02*	27.4 S	177.7 W	33		KERMADEC ISLANDS.
2	05 13 54*	27.3 S	177.7 W	33	4.4	KERMADEC ISLANDS.
2	05 40 20*	27.3 S	177.7 W	33	4.5	KERMADEC ISLANDS.
2	05 57 36.8	27.3 S	177.5 W	33	5.2	KERMADEC ISLANDS. MAG. 5 1/4 (BRK).
2	06 27 20.7	27.3 S	177.8 W	46	4.5	KERMADEC ISLANDS.
2	06 34 48*	61.0 S	154.8 E	33		BALLENY ISLANDS REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
2	07 25 05.3	27.4 S	177.7 W	68	4.5	KERMADEC ISLANDS.
2	09 09 04*	25.7 S	178.6 W	260	3.8	SOUTH OF FIJI ISLANDS.
2	09 19 41.6	27.2 S	177.9 W	39	5.6	KERMADEC ISLANDS. MAG. 6-6 1/4 (BRK).
2	09 30 05*	51.2 N	174.0 E	27	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
2	09 31 51*	73.5 N	7.2 E	33	4.9	GREENLAND SEA.
2	10 23 33*	26.9 S	177.7 W	33	4.7	SOUTH OF FIJI ISLANDS.
2	10 29 08*	27.6 S	177.5 W	33	4.5	KERMADEC ISLANDS.
2	10 35 40.0	51.4 N	174.7 E	33	5.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
2	11 05 54*	27.4 S	177.3 W	63		KERMADEC ISLANDS.
2	11 42 25.9	51.2 N	174.5 E	11	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
2	11 42 33.3	5.3 S	152.3 E	40	5.7	NEW BRITAIN REGION. FELT AT DOILENE.
2	12 26 39.2	27.3 S	177.6 W	33	4.6	KERMADEC ISLANDS.
2	12 38 16.2	51.4 N	179.3 W	33	4.3	ANDREANOF ISLANDS, ALEUTIAN IS.
2	12 53 26*	26.9 S	178.0 W	75	4.8	SOUTH OF FIJI ISLANDS.
2	12 57 38*	27.3 S	177.6 W	33	4.5	KERMADEC ISLANDS.
2	14 23 08.6	27.3 S	177.7 W	34	5.1	KERMADEC ISLANDS.
2	14 32 08.9	27.4 S	177.6 W	9	4.9	KERMADEC ISLANDS.
2	15 12 39.6	27.0 S	177.7 W	33	4.9	KERMADEC ISLANDS.
2	15 18 53.2	30.5 S	138.4 E	33	5.1	SOUTH AUSTRALIA.
2	15 20 22*	27.1 S	176.7 W	33	4.7	KERMADEC ISLANDS.
2	15 23 28*	27.3 S	178.2 W	89	4.9	KERMADEC ISLANDS.
2	15 48 31.6	27.1 S	177.5 W	33	4.8	KERMADEC ISLANDS.
2	16 25 04.0	27.0 S	177.7 W	33	4.8	KERMADEC ISLANDS.
2	16 34 26.9	27.0 S	177.7 W	70	4.9	KERMADEC ISLANDS.
2	18 55 50.7	5.4 S	152.2 E	48	5.2	NEW BRITAIN REGION. FELT AT DOILENE.
2	19 29 17*	27.5 S	177.5 W	33	4.6	KERMADEC ISLANDS.
2	19 51 01.0	27.2 S	177.9 W	33	5.1	KERMADEC ISLANDS.
2	20 24 19*	27.3 S	177.5 W	33	4.6	KERMADEC ISLANDS.
2	21 02 55*	51.4 N	173.4 E	33	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
2	21 07 21*	27.4 S	177.5 W	33	4.5	KERMADEC ISLANDS.
2	21 22 30*	26.7 S	177.9 W	33	4.6	SOUTH OF FIJI ISLANDS.
2	21 36 38.4	28.2 N	139.3 E	495	5.7	BONIN ISLANDS REGION.
2	22 00 07.8	38.6 N	28.3 E	45	5.2	TURKEY. SLIGHT DAMAGE AT SALIHLI, ODEMIS, AND ALASEHIR.
2	22 42 00.1	27.9 S	177.5 W	33	4.6	KERMADEC ISLANDS.
2	23 30 42.8	26.7 S	178.0 W	109	4.9	SOUTH OF FIJI ISLANDS.
2	23 33 39*	27.0 S	177.7 W	33	5.2	KERMADEC ISLANDS.
3	00 55 47*	51.4 N	170.3 E	33	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
3	01 02 24.4	27.2 S	177.7 W	33	4.9	KERMADEC ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
3	02 36 10*	27.3 S	177.5 W	33	4.6	KERMADEC ISLANDS.
3	03 17 04.1	27.2 S	177.6 W	33	5.4	KERMADEC ISLANDS. MAG. 5 1/2-5 3/4 (BRK).
3	03 26 43.9	6.0 S	128.3 E	340	5.3	BANDA SEA.
3	04 23 05*	27.8 S	177.3 W	33	4.5	KERMADEC ISLANDS.
3	05 11 01*	28.1 S	177.5 W	33	4.8	KERMADEC ISLANDS.
3	05 52 57.4	27.2 S	177.6 W	33	4.7	KERMADEC ISLANDS.
3	06 14 57.0	49.8 N	78.1 E	0	5.6	EASTERN KAZAKH SSR.
3	07 01 41*	27.8 S	177.5 W	33	4.8	KERMADEC ISLANDS.
3	07 20 44.2	44.6 N	101.7 E	33	5.2	MONGOLIA.
3	07 57 40*	50.8 N	177.6 E	39	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
3	08 04 22*	53.5 N	177.4 W	33	4.0	ANDREANOF ISLANDS, ALEUTIAN IS.
3	09 25 47*	51.7 N	174.0 E	33	4.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
3	10 42 34.4	51.7 N	175.3 E	44	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
3	11 25 24.0	27.3 S	177.6 W	76	4.4	KERMADEC ISLANDS.
3	11 36 28.3	27.2 S	177.6 W	33	5.0	KERMADEC ISLANDS.
3	13 05 28*	3.2 N	84.0 W	33	4.2	OFF COAST OF CENTRAL AMERICA.
3	13 34 05*	15.7 S	173.3 W	33	4.4	TONGA ISLANDS.
3	13 40 38*	51.5 N	179.5 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
3	13 50 58*	50.9 N	177.2 E	40	4.2	RAT ISLANDS, ALFUTIAN ISLANDS.
3	13 56 23.2	50.0 N	179.0 E	22	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
3	14 36 26.0	51.2 N	174.7 E	25	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
3	14 39 05.0	27.0 S	177.8 W	43	5.6	KERMADEC ISLANDS. MAG. 5 1/2-5 3/4 (BRK).
3	15 14 09.7	5.5 S	151.9 E	44	6.0	NEW BRITAIN REGION. FELT. MAG. 6 3/4-7 (PAS), 6 1/2-6 3/4 (BRK), 7 1/4-7 1/2 (PAL).
3	16 47 25.7	53.1 N	171.2 E	23	5.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
3	17 38 26.3	5.6 S	103.3 E	233		SOUTHERN SUMATRA.
3	19 29 16.1	45.7 N	150.9 E	33	5.1	KURILE ISLANDS.
3	19 55 16.7	27.1 S	177.7 W	33	5.1	KERMADEC ISLANDS.
3	21 12 16.5	27.2 S	177.7 W	33	5.0	KERMADEC ISLANDS.
3	22 04 27.9	5.4 S	151.8 E	55	5.2	NEW BRITAIN REGION.
3	22 09 32*	5.3 S	152.1 E	56	5.4	NEW BRITAIN REGION.
4	01 27 32*	12.4 N	141.5 E	120	4.6	SOUTH OF MARIANA ISLANDS.
4	01 42 48.8	51.4 N	176.7 E	48	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
4	01 48 54.1	5.4 S	147.0 E	191	6.4	EAST NEW GUINEA REGION. FELT AT LAE AND AIOME.
4	02 01 27.1	51.5 N	176.3 E	25	5.1	RAT ISLANDS, ALEUTIAN ISLANDS.
4	02 23 11*	52.4 N	160.5 E	33	4.6	OFF EAST COAST OF KAMCHATKA.
4	02 44 51*	15.9 N	93.5 W	33	4.0	NEAR COAST OF CHIAPAS, MEXICO.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
4	03 53 15*	20.9 S	174.8 W	52	5.1	TONGA ISLANDS.
4	04 40 49.1	0.2 N	18.0 W	33	5.0	CENTRAL MID-ATLANTIC RIDGE.
4	05 58 43.2	14.7 S	173.5 W	33	4.8	SAMOA ISLANDS REGION.
4	06 24 45*	5.3 S	152.1 E	60	5.3	NEW BRITAIN REGION.
4	06 25 23*	51.0 N	173.6 E	33	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
4	06 30 16.2	52.0 N	175.0 E	40	5.5	RAT ISLANDS, ALEUTIAN ISLANDS.
4	07 22 40.4	5.4 S	151.7 E	62	5.3	NEW BRITAIN REGION.
4	08 24 19*	27.3 S	177.6 W	33	4.8	KERMADEC ISLANDS.
4	21 03 37.9	59.8 S	26.2 W	45	5.3	SOUTH SANDWICH ISLANDS REGION.
4	23 08 03.3	27.3 S	177.4 W	33	4.5	KERMADEC ISLANDS.
4	23 59 21.4	52.1 N	175.0 E	33	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
5	01 59 29*	51.2 N	173.7 E	33	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
5	04 12 58*	51.2 N	174.5 E	33		NEAR ISLANDS, ALEUTIAN ISLANDS.
5	04 30 31*	50.9 N	178.6 E	30	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
5	06 15 01.1	51.2 N	179.3 E	25	5.6	RAT ISLANDS, ALEUTIAN ISLANDS. MAG. 4 3/4-5 (BRK).
5	06 25 56*	49.9 N	177.4 E	15	4.9	ALEUTIAN ISLANDS REGION.
5	06 33 16*	51.1 N	179.0 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
5	10 03 34.2	5.1 S	134.4 E	33	5.9	AROE ISLANDS REGION.
5	11 04 20.2	26.3 S	178.4 W	276	4.1	SOUTH OF FIJI ISLANDS.
5	11 28 44*	50.3 N	176.9 E	33	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
5	11 50 40*	52.0 N	170.2 E	33	4.2	NEAR ISLANDS, ALEUTIAN ISLANDS.
5	13 27 13*	50.9 N	178.5 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
5	13 42 44.1	52.3 N	174.9 E	35	5.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
5	14 01 47.6	50.3 N	177.8 E	15	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
5	14 32 19.2	27.0 S	63.3 W	573	5.5	SANTIAGO DEL ESTERO PROV., ARG. MAG. 5 1/4-5 1/2 (BRK).
5	16 21 51*	35.5 N	135.8 E	33	4.4	SOUTHERN HONSHU, JAPAN. FELT AT TSURUGA, HIKONE, AND FUKUI.
5	16 31 42*	51.0 N	177.2 E	40	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
5	16 33 52.7	51.5 N	176.6 E	35	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
5	17 08 51.8	29.1 S	177.3 W	21	4.5	KERMADEC ISLANDS REGION.
5	17 59 13.5	52.3 N	174.2 E	35	5.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
5	18 13 42.3	20.0 S	177.6 W	553	4.0	FIJI ISLANDS REGION.
5	19 36 43*	27.5 S	177.0 W	33	5.3	KERMADEC ISLANDS.
5	21 00 14.8	27.2 S	177.7 W	33	4.4	KERMADEC ISLANDS.
5	21 25 53.1	21.0 S	68.4 W	83	4.8	CHILE-BOLIVIA BORDER REGION.
5	21 30 54*	50.4 N	178.0 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
5	21 41 34.7	12.0 S	166.3 E	58	4.9	SANTA CRUZ ISLANDS.
5	23 17 39.4	51.2 N	173.9 E	33	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
5	23 29 23.2	53.0 N	171.1 E	45	5.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
6	00 00 39*	50.8 N	171.6 E	33	4.1	ALEUTIAN ISLANDS REGION.
6	03 32 29.5	56.8 N	154.4 W	30	4.8	KODIAK ISLAND REGION.
6	04 06 48.5	26.7 S	177.3 W	24	5.3	SOUTH OF FIJI ISLANDS.
6	04 43 07.1	1.2 S	78.4 W	13	4.3	ECUADOR.
6	05 09 07.3	3.0 S	138.8 E	88	5.1	WEST NEW GUINEA.
6	05 52 58.9	52.3 N	172.4 E	44	5.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
6	08 19 30.5	52.4 N	174.2 E	25	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
6	09 49 06.8	27.0 S	177.6 W	33	4.5	KERMADEC ISLANDS.
6	10 21 17.9	17.5 S	178.7 W	573	4.2	FIJI ISLANDS REGION.
6	11 10 53.1	18.4 S	132.9 W	35	5.5	SOUTH PACIFIC OCEAN.
6	13 41 17.0	52.1 N	175.4 E	35	5.2	RAT ISLANDS, ALEUTIAN ISLANDS.
6	14 35 42.3	50.4 N	177.8 E	33	5.0	RAT ISLANDS, ALEUTIAN ISLANDS.
6	16 01 53*	30.3 S	177.5 W	63	5.6	KERMADEC ISLANDS REGION.
6	17 10 19.8	51.6 N	174.3 E	35	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
6	18 25 34.8	51.3 N	176.3 E	34	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
6	18 40 52.7	7.4 S	128.5 E	129		BANDA SEA.
6	20 23 49.5	20.1 N	121.3 E	8	5.8	PHILIPPINE ISLANDS REGION.
6	21 08 49.9	37.4 N	91.1 W	18	5.3	MISSOURI. FELT AT FLETCHER.
7	00 01 17*	50.8 N	175.1 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
7	01 37 55.6	46.1 N	137.1 E	328	4.7	NEAR E. COAST OF EASTERN RUSSIA.
7	01 43 11.4	30.3 S	177.9 W	60	5.6	KERMADEC ISLANDS REGION. MAG. 5 3/4 (BRK).
7	02 51 18.5	51.6 N	174.0 E	25	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
7	04 44 30*	19.5 S	174.6 W	187	4.2	TONGA ISLANDS.
7	05 16 54*	50.8 N	178.1 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
7	06 33 17.7	3.3 N	79.0 W	33	5.0	SOUTH OF PANAMA.
7	07 32 38.1	12.1 N	46.3 E	38	4.9	WESTERN GULF OF ADEN.
7	07 42 31.2	12.1 N	46.3 E	33	5.3	WESTERN GULF OF ADEN.
7	11 04 39.3	51.8 N	176.4 E	35	5.2	RAT ISLANDS, ALEUTIAN ISLANDS.
7	16 08 56*	27.5 S	177.6 W	33	5.0	KERMADEC ISLANDS.
7	16 58 03*	19.9 S	168.8 E	49	4.3	NEW HEBRIDES ISLANDS.
7	16 58 54*	8.5 S	71.1 W	572	3.7	WESTERN BRAZIL.
7	18 06 46*	50.7 N	179.2 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
7	19 41 10*	51.1 N	179.5 E	15	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
7	22 32 41*	52.5 N	175.9 E	33	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
7	22 45 17.9	41.1 S	91.2 W	33	5.0	SOUTHERN PACIFIC OCEAN.
8	05 55 45*	50.8 N	176.4 E	25	3.8	RAT ISLANDS, ALEUTIAN ISLANDS.
8	07 14 11.5	5.3 S	152.2 E	51	4.8	NEW BRITAIN REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
8	12 04 21.0	62.5 N	150.4 W	104	4.5	CENTRAL ALASKA.
8	12 10 13.7	6.4 N	83.4 W	33	4.1	OFF COAST OF CENTRAL AMERICA.
8	12 23 14*	44.6 S	75.1 W	33	4.8	OFF COAST OF SOUTHERN CHILE.
8	12 25 25.3	20.0 N	121.3 E	64	4.6	PHILIPPINE ISLANDS REGION.
8	12 45 22.3	51.6 N	173.5 W	38	4.4	ANDREANOF ISLANDS, ALEUTIAN IS.
8	13 34 42*	50.2 N	178.5 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
8	14 00 31*	52.0 N	172.5 E	45	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
8	14 33 39.3	52.1 N	173.8 W	35	4.0	ANDREANOF ISLANDS, ALEUTIAN IS.
8	15 04 16.2	17.7 S	178.9 W	589	5.0	FIJI ISLANDS REGION. MAG. 4 1/2-4 3/4 (BRK).
8	15 54 03*	49.1 N	177.3 E	30	4.3	ALEUTIAN ISLANDS REGION.
8	19 22 45.6	22.3 S	171.4 E	125	5.4	LOYALTY ISLANDS REGION. MAG. 5 3/4-6 (BRK).
8	22 14 34.1	59.6 N	145.3 W	33	4.1	GULF OF ALASKA.
8	22 50 56*	38.7 N	118.7 W	31	4.3	CALIFORNIA-NEVADA BORDER REGION. FELT AT HAWTHORNE, NEVADA. MAG. 4 1/2 (BRK).
8	23 02 56.0	38.0 N	21.2 E	55	4.2	GREECE. FELT AT VARTHOLOMION AND STREPHI.
8	23 11 31.7	24.6 S	67.1 W	168	5.4	CHILE-ARGENTINA BORDER REGION. MAG. 5 (BRK).
9	00 47 26*	51.7 N	173.5 W	33	4.0	ANDREANOF ISLANDS, ALEUTIAN IS.
9	01 36 49.0	17.1 S	177.4 W	429	5.5	FIJI ISLANDS REGION. MAG. 5 3/4-6 (BRK).
9	02 55 51.6	13.5 S	72.7 W	33	4.1	PERU.
9	04 53 32*	52.9 N	34.6 W	33	4.2	NORTH ATLANTIC OCEAN.
9	06 41 34*	39.9 N	111.3 W	33	3.5	UTAH.
9	10 30 16*	27.0 S	177.7 W	103	4.7	KERMADEC ISLANDS.
9	10 36 37.9	27.7 S	177.6 W	102		KERMADEC ISLANDS.
9	11 01 50*	52.1 N	172.1 E	30	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
9	12 04 07*	51.0 N	174.7 E	30		NEAR ISLANDS, ALEUTIAN ISLANDS.
9	12 35 52*	50.2 N	178.3 E	30	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
9	12 55 42.1	42.3 N	142.1 E	23	4.5	HOKKAIDO, JAPAN REGION.
9	17 29 29.1	11.7 S	166.5 E	125	5.4	SANTA CRUZ ISLANDS.
9	17 57 53.7	39.4 N	24.0 E	18	5.7	AEGEAN SEA. 2 KILLED AND HEAVY DAMAGE AT ALONISOS. FELT WIDELY THROUGHOUT GREECE AND IN CANAKKALE AND EDREMIT TURKEY. SEISMIC SEA WAVE REPORTED ON PELAGOS AND SKIATHOS ISLANDS. 6 1/4-6 1/2 (BRK), 6 1/4-6 1/2 (PAL).
9	18 37 31.5	7.0 N	82.2 W	33	4.4	SOUTH OF PANAMA.
9	18 37 54.4	39.3 N	24.0 E	33	5.0	AEGEAN SEA. FELT IN MAGNESIE AND ON LEMNOS.
9	18 51 56*	39.2 N	24.1 E	33	4.4	AEGEAN SEA. FELT AT CANAKKALE, TURKEY.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
9	18 59 17*	39.3 N	24.0 E	5	4.2	AEGEAN SEA.
9	19 41 34.8	5.0 S	145.3 E	53	5.2	EAST NEW GUINEA REGION.
9	19 46 58.2	39.3 N	23.9 E	19	4.7	AEGEAN SEA. FELT OVER AN AREA OF 95,000 SQUARE KILOMETERS.
9	20 42 53*	38.8 N	24.1 E	47		AEGEAN SEA.
9	21 20 04.9	39.2 N	23.8 E	13	4.7	AEGEAN SEA. FELT OVER AN AREA OF 110,000 SQUARE KILOMETERS.
9	21 45 15.8	52.6 N	172.2 E	24	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
9	22 19 05*	39.2 N	24.0 E	5	4.4	AEGEAN SEA. FELT OVER AN AREA OF 60,000 SQUARE KILOMETERS.
9	22 35 16*	39.2 N	23.7 E	31	4.8	AEGEAN SEA. FELT OVER AN AREA OF 55,000 SQUARE KILOMETERS.
10	00 10 40.1	15.9 N	94.5 W	33	4.1	NEAR COAST OF OAXACA, MEXICO.
10	00 14 57.0	46.2 N	152.9 E	33	4.4	KURILE ISLANDS.
10	00 27 17.9	18.0 S	178.4 W	589	4.2	FIJI ISLANDS REGION.
10	01 36 07*	39.2 N	23.9 E	33	4.7	AEGEAN SEA. FELT OVER AN AREA OF 100,000 SQUARE KILOMETERS.
10	02 14 22*	4.1 S	143.5 E	122	5.2	NEW GUINEA. FELT AT AMBOINA.
10	02 52 08*	40.6 N	125.6 W	33	4.5	OFF COAST OF NORTHERN CALIFORNIA. MAG. 3 1/2 (BRK).
10	04 03 32*	79.7 N	21.3 E	33	4.4	SVALBARD REGION.
10	04 25 39*	16.8 N	97.6 W	46	4.0	OAXACA, MEXICO.
10	05 44 47.8	32.8 N	49.2 E	33	5.4	WESTERN IRAN. FELT AT ARAK.
10	08 30 11.1	51.9 N	176.3 E	39	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
10	09 33 27*	50.1 N	178.1 E	30	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
10	10 03 56*	0.5 N	120.5 E	33		NORTHERN CELEBES.
10	11 16 50.1	17.1 S	174.2 W	125	4.3	TONGA ISLANDS.
10	15 53 42.5	21.9 S	179.4 E	614	5.7	SOUTH OF FIJI ISLANDS. MAG. 5 1/2-5 3/4 (BRK).
10	18 56 25.5	4.2 S	139.3 E	27		WEST NEW GUINEA.
10	20 09 15*	43.4 N	125.4 W	33	4.0	OFF COAST OF OREGON.
10	20 29 34.5	62.5 N	147.3 W	85	4.8	CENTRAL ALASKA.
10	21 50 17*	39.3 N	23.9 E	16	4.9	AEGEAN SEA. FELT ON THE ISLAND OF THASOS.
10	21 52 57.6	56.3 N	155.6 W	33	5.0	ALASKA PENINSULA.
11	01 44 25*	56.1 N	156.8 W	33	4.4	ALASKA PENINSULA.
11	05 26 17.3	18.8 S	169.2 E	219	4.5	NEW HEBRIDES ISLANDS.
11	06 03 31.5	3.2 S	101.1 E	57		SOUTHERN SUMATRA.
11	08 01 45*	18.4 S	169.7 E	25	5.0	NEW HEBRIDES ISLANDS.
11	08 31 01.3	45.3 N	150.4 E	49	4.5	KURILE ISLANDS.
11	08 36 45.8	45.1 N	150.8 E	33	4.3	KURILE ISLANDS.
11	10 02 51.7	0.9 S	132.8 E	20	4.9	WEST NEW GUINEA REGION.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
11	12 03 12.2	51.9 N	176.5 E	35	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
11	12 07 42.2	53.2 N	171.1 E	27	4.8	NEAR ISLANDS, ALEUTIAN ISLANDS.
11	14 05 54.5	53.1 N	161.9 W	12	5.0	SOUTH OF ALASKA.
11	14 55 04*	18.2 S	71.2 W	59	4.0	OFF COAST OF NORTHERN CHILE. FELT AT AREQUIPA, PERU.
11	15 26 04*	53.8 N	160.7 W	33	4.3	SOUTH OF ALASKA.
11	17 07 06*	54.7 S	0.7 E	33	5.4	BOUVET ISLAND REGION.
11	19 16 21.6	42.5 N	142.8 E	37	4.9	HOKKAIDO, JAPAN REGION.
11	21 19 56.1	52.6 N	173.0 E	35	4.8	NEAR ISLANDS, ALEUTIAN ISLANDS.
11	23 04 13*	0.7 S	132.8 E	33	4.4	WEST NEW GUINEA REGION.
11	23 31 02.7	45.3 N	151.3 E	47	4.8	KURILE ISLANDS.
12	01 55 09.1	50.4 N	177.9 E	40	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
12	02 16 42.4	50.4 N	177.9 E	41	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
12	02 18 46*	50.7 N	177.7 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
12	06 02 43*	15.7 S	177.3 W	406	4.2	FIJI ISLANDS REGION.
12	06 51 40*	55.7 N	155.6 W	16	4.6	SOUTH OF ALASKA.
12	08 07 54*	42.3 S	174.0 E	33	4.9	OFF E. COAST OF S. ISLAND, N.Z.
12	08 42 28.2	56.0 S	27.5 W	33	5.9	SOUTH SANDWICH ISLANDS REGION.
12	09 33 30.8	51.6 N	175.0 E	38	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
12	10 07 00.7	0.6 S	132.9 E	33	4.8	WEST NEW GUINEA REGION.
12	11 13 53.1	19.1 S	176.6 E	33	4.8	SOUTH OF FIJI ISLANDS.
12	17 31 02.2	26.8 S	176.5 W	48	4.7	SOUTH OF FIJI ISLANDS.
12	18 17 47.0	4.6 S	121.3 E	33	4.8	CELEBES.
12	19 29 03.0	51.9 N	174.9 E	43	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
12	20 19 07*	38.9 N	17.7 E	73	4.6	SOUTHERN ITALY.
12	21 20 30*	11.8 S	164.6 E	44	4.7	SANTA CRUZ ISLANDS REGION.
12	22 16 54.1	27.0 S	71.0 W	33	4.9	NEAR COAST OF NORTHERN CHILE.
12	22 54 44.7	5.8 S	77.8 W	52	4.9	NORTHERN PERU.
12	23 22 29*	50.2 N	178.2 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
12	23 37 09.3	51.3 N	179.9 W	44	4.4	ANDREANOF ISLANDS, ALEUTIAN IS.
13	01 23 26*	27.1 S	69.6 W	75	4.4	NORTHERN CHILE.
13	04 08 40.5	39.1 N	23.9 E	12	5.5	AEGEAN SEA. SLIGHT DAMAGE ON ALONISOS ISLAND. FELT AT ATHENS AND IN CENTRAL GREECE.
13	04 09 38.5	39.0 N	23.4 E	33	5.3	AEGEAN SEA. SLIGHT DAMAGE ON ALONISOS ISLAND. FELT AT ATHENS AND IN CENTRAL GREECE.
13	04 36 43*	11.2 S	111.6 E	33		SOUTH OF JAVA.
13	06 08 12.3	14.2 S	166.9 E	61	4.9	NEW HEBRIDES ISLANDS.
13	06 47 53.1	0.7 S	133.0 E	33	5.3	WEST NEW GUINEA REGION.
13	06 55 29*	46.8 N	152.5 E	44	4.8	KURILE ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
13	07 33 23.0	53.1 N	162.2 W	37	5.5	SOUTH OF ALASKA.
13	08 55 34.7	26.8 S	176.3 W	31	5.3	SOUTH OF FIJI ISLANDS.
13	10 52 07*	52.6 N	172.1 E	35	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
13	11 33 01*	39.1 N	24.1 E	33		AEGEAN SEA.
13	12 37 53*	50.2 N	178.9 E	36	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
13	13 25 51*	51.1 N	179.0 E	33	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
13	13 54 33.0	20.4 S	177.6 W	470	5.7	FIJI ISLANDS REGION.
13	14 22 21.7	51.3 N	179.1 E	40	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
13	15 20 00*	50.2 N	178.5 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
13	15 26 03.2	51.3 N	178.0 E	53	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
13	15 42 16.8	39.1 N	24.1 E	34	4.5	AEGEAN SEA.
13	16 12 30*	54.0 N	160.9 E	33	4.4	NEAR EAST COAST OF KAMCHATKA.
13	17 09 19.2	51.1 N	176.1 E	35	5.1	RAT ISLANDS, ALEUTIAN ISLANDS.
13	20 53 39*	51.4 N	176.5 E	35	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
13	20 56 06*	38.7 N	141.9 E	33	5.0	NEAR EAST COAST OF HONSHU, JAPAN.
14	05 11 22*	36.8 N	73.1 E	163	4.3	NORTHWESTERN KASHMIR.
14	08 37 13*	24.6 S	179.7 W	462	4.3	SOUTH OF FIJI ISLANDS.
14	08 52 22.2	18.8 N	94.6 W	97	4.8	GULF OF CAMPECHE.
14	10 42 57.2	34.1 N	117.5 W	5	3.0	SOUTHERN CALIFORNIA. MAG. 2 3/4 (PAS).
14	11 41 53.2	36.5 N	68.4 E	86	4.9	HINDU KUSH REGION.
14	12 04 18*	37.5 N	140.8 E	73	4.0	HONSHU, JAPAN.
14	12 47 42.2	31.9 S	138.8 E	26	5.0	SOUTH AUSTRALIA.
14	13 18 05.3	39.6 N	110.3 W	0	3.9	UTAH. PROBABLE ROCKBURST.
14	14 50 13*	52.2 N	176.6 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
14	15 30 37*	0.4 S	80.8 W	33	4.1	NEAR COAST OF ECUADOR.
14	15 53 06.6	36.3 N	70.7 E	219	6.6	HINDU KUSH REGION. LIGHT DAMAGE IN AFGHANISTAN AND WEST PAKISTAN. 2 INJURED AT PESHAWAR. FELT AT TASHKENT, UZBEK S.S.R. AND IN INDIA.
14	19 38 19*	52.8 N	174.7 W	168	4.1	ANDREANOF ISLANDS, ALEUTIAN IS.
14	22 01 17*	51.3 N	176.9 E	57	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
14	22 11 42.3	19.0 S	176.1 W	39	5.2	FIJI ISLANDS REGION.
14	22 41 36.1	4.6 N	82.6 W	33	4.5	SOUTH OF PANAMA.
14	23 49 00*	16.2 S	177.3 W	427	4.4	FIJI ISLANDS REGION.
15	02 01 36*	52.9 N	170.1 W	33	3.9	FOX ISLANDS, ALEUTIAN ISLANDS.
15	02 02 08.9	22.4 N	121.4 E	33	4.7	TAIWAN REGION.
15	03 01 13*	15.0 S	173.9 W	33	5.0	TONGA ISLANDS.
15	04 50 09.5	4.2 N	126.4 E	102	5.1	TALAUD ISLANDS.
15	04 59 58.9	51.7 N	174.1 E	21	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
15	05 09 03*	15.6 S	74.3 W	38	5.5	NEAR COAST OF PERU.
15	06 04 00.5	23.6 S	176.8 W	33	4.6	SOUTH OF FIJI ISLANDS.
15	07 32 01.6	51.7 N	176.5 E	61	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
15	08 25 54.5	51.3 N	174.1 E	33	5.3	NEAR ISLANDS, ALEUTIAN ISLANDS. MAG. 4 1/4-4 1/2 (BRK).
15	10 30 34*	51.8 N	174.6 E	33		NEAR ISLANDS, ALEUTIAN ISLANDS.
15	10 36 18.8	22.2 S	175.2 E	33	4.9	SOUTH OF FIJI ISLANDS.
15	10 54 42.0	51.1 N	174.0 E	9	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
15	12 03 38.0	52.0 N	173.3 E	33	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
15	12 35 29.8	55.9 N	154.6 W	23	4.3	SOUTH OF ALASKA.
15	12 38 52*	55.7 N	154.5 W	18	4.7	SOUTH OF ALASKA.
15	14 02 42.1	6.5 S	153.2 E	38	5.4	NEW BRITAIN REGION.
15	15 13 28*	51.2 N	175.9 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
15	23 08 30*	39.1 N	24.2 E	33	4.6	AEGEAN SEA.
15	23 13 29.6	5.6 S	152.3 E	33	5.3	NEW BRITAIN REGION.
16	02 11 18.9	23.1 S	13.5 W	32	5.3	SOUTH ATLANTIC RIDGE.
16	03 36 52*	51.8 N	175.3 E	59	3.8	RAT ISLANDS, ALEUTIAN ISLANDS.
16	04 10 21*	49.7 N	155.2 E	52	4.7	KURILE ISLANDS.
16	04 40 47*	27.1 S	176.4 W	33	4.4	KERMADEC ISLANDS.
16	05 37 13*	38.7 N	112.2 W	33	3.4	UTAH.
16	07 22 54*	52.1 N	171.6 E	33	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
16	09 58 53*	8.9 N	87.3 W	33	4.0	OFF COAST OF CENTRAL AMERICA.
16	10 39 40.5	23.7 S	179.8 E	580	5.5	SOUTH OF FIJI ISLANDS.
16	12 22 09*	53.2 N	177.1 W	40	3.8	ANDREANOF ISLANDS, ALEUTIAN IS.
16	13 04 29*	40.0 N	143.2 E	41	4.3	OFF EAST COAST OF HONSHU, JAPAN.
16	14 09 59*	50.9 N	176.0 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
16	14 47 47*	52.1 N	171.7 E	30	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
16	15 53 37*	5.1 S	146.9 E	25		EAST NEW GUINEA REGION.
16	16 46 15.5	40.8 N	142.9 E	34	5.6	NEAR EAST COAST OF HONSHU, JAPAN. FELT AT MORIOKO AND AOMORI. MAG. 6 1/2 (PAS), 6 1/2-6 3/4 (PAL).
16	17 02 30*	52.1 N	174.3 E	35	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
16	18 24 15.2	52.1 N	175.0 E	36	4.9	RAT ISLANDS, ALEUTIAN ISLANDS. FELT ON SHEMYA.
16	21 33 08*	40.1 N	143.2 E	33	4.4	OFF EAST COAST OF HONSHU, JAPAN.
17	02 32 10*	43.0 N	13.6 E	19	4.1	CENTRAL ITALY. FELT AT ASCOLI PICENO AND TERAMO.
17	03 52 48*	34.9 N	32.5 E	39	4.6	CYPRUS.
17	04 33 41*	51.1 N	178.3 W	33	4.2	ANDREANOF ISLANDS, ALEUTIAN IS. FELT AT ADAK.
17	06 30 53*	52.4 N	175.4 W	30	3.8	ANDREANOF ISLANDS, ALEUTIAN IS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
17	07 18 55.9	27.8 N	56.5 E	60	4.9	SOUTHERN IRAN.
17	07 54 14*	51.0 N	172.2 E	30	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
17	12 32 47*	49.6 N	155.2 E	60	4.2	KURILE ISLANDS.
17	12 41 08.8	1.2 N	126.8 E	68	5.1	MOLUCCA PASSAGE.
17	13 14 20.2	41.1 N	69.7 E	33	5.2	KIRGIZ SSR.
17	14 27 12.4	52.8 N	171.9 E	23	6.0	NEAR ISLANDS, ALEUTIAN ISLANDS. FELT ON SHEMYA.
17	14 43 58.4	52.5 N	172.6 E	30	5.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
17	20 36 18*	18.2 N	148.2 E	40	4.7	MARIANA ISLANDS REGION.
17	20 38 23*	4.8 S	153.8 E	108		NEW IRELAND REGION.
18	01 07 11*	54.3 S	8.0 E	33		BOUVET ISLAND REGION.
18	02 41 27.6	29.9 N	80.3 E	33	5.2	NEPAL-INDIA BORDER REGION.
18	04 49 32.6	40.1 N	143.3 E	43	4.5	OFF EAST COAST OF HONSHU, JAPAN.
18	04 58 31*	52.6 N	179.4 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
18	06 22 10.3	19.9 S	175.9 W	219	5.5	FIJI ISLANDS REGION. MAG. 5 1/4 (BRK).
18	11 46 38.9	55.8 S	27.1 W	33	5.3	SOUTH SANDWICH ISLANDS REGION.
18	12 40 49.3	55.8 S	26.7 W	92	5.7	SOUTH SANDWICH ISLANDS REGION.
18	16 15 56.1	17.7 S	178.9 W	507	5.1	FIJI ISLANDS REGION.
18	16 31 02.2	36.9 N	70.7 E	200	4.7	HINDU KUSH REGION.
18	16 49 59*	59.7 N	155.9 W	33	4.8	SOUTHERN ALASKA.
18	18 09 31.1	40.2 S	149.6 E	33		SOUTHEAST OF AUSTRALIA.
18	18 35 29.3	52.7 N	156.5 E	162	4.5	KAMCHATKA.
18	20 43 53*	52.0 N	175.1 E	24	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
19	02 55 26*	51.7 N	179.7 E	60	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
19	04 35 44.1	41.4 N	22.8 E	12	4.2	YUGOSLAVIA. FELT AT GEUGELIA, VALANDORO, STRUMICA AND ON THE GREECE-BULGARIA BORDER.
19	05 14 07*	50.5 N	176.6 E	33	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
19	05 18 02*	50.4 N	176.9 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
19	05 27 57*	51.4 N	174.8 E	33	5.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
19	05 39 40*	51.6 N	174.6 E	40	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
19	06 23 32*	51.8 N	175.2 W	45	4.1	ANDREANOF ISLANDS, ALEUTIAN IS.
19	06 54 40*	52.2 N	174.6 W	45	4.1	ANDREANOF ISLANDS, ALEUTIAN IS.
19	07 35 21.7	52.0 N	174.9 E	35	5.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
19	11 52 55.8	40.8 N	143.0 E	25	4.6	OFF EAST COAST OF HONSHU, JAPAN.
19	12 57 12*	14.9 S	173.3 W	33	4.5	SAMOA ISLANDS REGION.
19	15 34 52*	27.1 S	176.4 W	33	4.0	KERMADEC ISLANDS.
19	16 20 51.4	2.0 S	119.8 E	46	5.0	CELEBES.
19	17 37 18.6	19.7 S	178.7 W	617	5.5	FIJI ISLANDS REGION. MAG. 4 3/4 (BRK).

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
19	22 29 53*	7.8 S	104.9 W	33	4.6	NORTHERN EASTER I. CORDILLERA.
19	22 58 34.9	0.0 N	123.4 E	173	5.6	NORTHERN CELEBES.
19	23 32 58*	20.1 S	176.4 W	219	4.6	FIJI ISLANDS REGION.
19	23 37 31.5	41.5 N	22.8 E	33	4.3	YUGOSLAVIA. FELT AT GEUGELIA, VALANDOVO, AND STRUMICA.
20	01 24 05*	52.6 N	172.1 E	33	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
20	06 31 18*	34.7 N	138.0 E	119	4.3	NEAR S. COAST OF HONSHU, JAPAN.
20	06 53 11.0	13.2 N	143.6 E	148	4.3	SOUTH OF MARIANA ISLANDS.
20	07 49 28*	49.8 N	179.5 E	33	4.0	ALEUTIAN ISLANDS REGION.
20	09 53 28*	51.7 N	173.2 E	33	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
20	11 49 01*	52.0 N	176.2 E	33		RAT ISLANDS, ALEUTIAN ISLANDS.
20	13 02 29*	19.0 S	69.6 W	64	4.5	NORTHERN CHILE.
20	16 28 13*	15.3 N	94.2 W	33	3.6	NEAR COAST OF OAXACA, MEXICO.
20	19 20 04*	1.4 S	126.4 E	33	4.8	MOLUCCA SEA.
20	20 49 15.3	2.0 S	119.5 E	71	5.1	CELEBES.
21	01 20 46.0	50.1 N	178.3 E	21	5.0	RAT ISLANDS, ALEUTIAN ISLANDS.
21	01 43 59*	44.7 N	147.1 E	135	4.6	KURILE ISLANDS.
21	02 52 12*	53.0 N	171.2 E	33	4.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
21	07 14 55*	0.2 N	123.4 E	241		NORTHERN CELEBES.
21	07 36 05*	51.1 N	173.1 E	33	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
21	09 42 41.3	11.7 N	86.4 W	36	5.2	NEAR COAST OF NICARAGUA. MAG. 4 3/4 (BRK), 5 3/4 (PAL).
21	11 08 16.2	1.5 S	126.5 E	33	6.2	MOLUCCA SEA. MAG. 6 3/4 (PAS), 6 3/4 (BRK), 6 1/4-6 1/2 (PAL).
21	12 25 12.4	1.4 S	126.5 E	111	5.2	MOLUCCA SEA.
21	12 41 47.5	36.2 N	136.6 E	270	5.4	NEAR WEST COAST OF HONSHU, JAPAN.
21	13 15 24*	3.6 S	124.4 E	36	5.3	CERAM SEA.
21	13 40 32.7	6.4 N	124.1 E	63	5.5	MINDANAO, PHILIPPINE ISLANDS.
21	14 29 08.7	45.1 N	146.6 E	33	4.8	KURILE ISLANDS.
21	15 09 14.8	40.4 N	78.4 E	33	5.1	SOUTHERN SINKIANG PROV., CHINA.
21	15 16 22*	1.6 S	126.5 E	37		MOLUCCA SEA.
21	18 04 20*	50.4 N	178.6 E	30	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
21	19 02 32.9	45.4 N	150.6 E	14	5.2	KURILE ISLANDS.
21	19 16 33*	1.5 S	126.3 E	44	4.6	MOLUCCA SEA.
21	20 59 22*	1.0 S	126.7 E	83	4.3	MOLUCCA SEA.
21	21 57 11*	6.8 S	128.2 E	283	4.6	BANDA SEA.
21	22 00 41.3	1.3 S	126.3 E	52	4.5	MOLUCCA SEA.
21	22 56 39.7	39.5 N	110.3 W	0	4.0	UTAH. PROBABLE ROCKBURST.
22	00 17 27*	11.9 N	87.9 W	33	4.3	NEAR COAST OF NICARAGUA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
22	02 44 47.5	15.3 S	173.4 W	51	5.9	TONGA ISLANDS. FELT AT APIA. MAG. 6 1/2 (PAS), 6-6 1/4 (BRK), 6 1/2-6 3/4 (PAL).
22	03 05 33.3	23.8 S	66.7 W	176	5.5	JUJUY PROVINCE, ARGENTINA.
22	03 22 25.9	39.1 N	24.2 E	33	4.5	AEGEAN SEA. FELT OVER AN AREA OF 50,000 SQUARE KILOMETERS.
22	06 08 05*	38.1 S	176.4 E	118		NORTH ISLAND, NEW ZEALAND.
22	07 53 07.4	13.9 N	90.9 W	60	4.5	NEAR COAST OF GUATEMALA. FELT AT SAN SALVADOR.
22	08 44 25*	50.0 N	179.2 E	13	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
22	09 46 07.7	6.6 N	72.8 W	187	4.9	NORTHERN COLOMBIA.
22	09 53 28.1	1.5 S	126.3 E	33	5.0	MOLUCCA SEA.
22	10 58 20*	56.5 N	152.8 W	33	4.0	KODIAK ISLAND REGION.
22	11 11 14*	18.1 S	178.5 W	557	5.7	FIJI ISLANDS REGION.
22	11 31 16*	21.7 N	142.9 E	309	4.9	MARIANA ISLANDS REGION.
22	13 48 05*	14.4 S	173.0 W	33	4.6	SAMOA ISLANDS REGION.
22	14 36 11.9	52.1 N	174.1 E	57	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
22	15 11 01.5	8.8 N	39.7 W	28	4.5	CENTRAL MID-ATLANTIC RIDGE.
22	17 29 07*	7.5 S	128.5 E	153	4.6	BANDA SEA. MAG. 4 1/2 (BRK).
22	19 33 10.5	19.3 N	155.6 W	15	4.4	HAWAII REGION.
22	20 46 16.2	22.4 S	68.1 W	110	5.0	NORTHERN CHILE.
22	22 02 24*	51.9 N	174.9 E	33	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
22	22 56 26.5	31.9 S	71.5 W	46	6.0	NEAR COAST OF CENTRAL CHILE. FELT WIDELY. MAG. 6 (PAS), 6 (BRK), 5 1/4 (PAL).
23	02 58 40*	12.3 N	88.2 W	33	4.1	OFF COAST OF CENTRAL AMERICA.
23	04 05 44.1	32.6 S	72.1 W	33	4.5	OFF COAST OF CENTRAL CHILE.
23	05 30 54.4	51.4 N	177.8 E	30	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
23	08 18 14.2	51.5 N	175.0 E	38	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
23	08 40 46*	40.5 N	127.9 W	33	4.4	OFF COAST OF NORTHERN CALIFORNIA. MAG. 4 1/2 (BRK).
23	08 42 44*	52.2 N	173.4 E	33	4.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
23	10 03 43*	17.9 N	100.7 W	142	3.8	GUERRERO, MEXICO.
23	10 29 23.9	51.3 N	178.0 E	48	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
23	10 46 52.9	22.3 N	143.3 E	179	4.0	VOLCANO ISLANDS REGION.
23	12 44 59.6	51.2 N	177.8 E	45	5.4	RAT ISLANDS, ALEUTIAN ISLANDS.
23	13 35 49.1	51.3 N	177.9 E	49	5.1	RAT ISLANDS, ALEUTIAN ISLANDS.
23	15 56 58.3	1.1 N	29.3 W	33	4.7	CENTRAL MID-ATLANTIC RIDGE.
23	16 58 14*	36.5 N	22.4 E	136	4.4	SOUTHERN GREECE.
23	17 18 29*	11.8 N	88.2 W	33	4.2	OFF COAST OF CENTRAL AMERICA. FELT AT SAN SALVADOR.
23	18 16 08.4	15.2 S	173.5 W	75	5.4	TONGA ISLANDS. FELT AT APIA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
23	19 27 17.4	15.4 S	173.2 W	50	4.9	TONGA ISLANDS. FELT AT APIA.
23	21 21 53*	11.0 N	86.6 W	33	4.8	NEAR COAST OF NICARAGUA.
23	23 54 14.7	15.2 S	173.5 W	130	5.7	TONGA ISLANDS. FELT AT APIA. MAG. 6 1/2 (PAS), 5.9 (BRK), 6 1/4-6 1/2 (PAL).
24	01 08 07.8	25.2 N	67.7 E	40	4.8	WEST PAKISTAN.
24	01 32 03.3	0.6 N	123.8 E	272		NORTHERN CELEBES.
24	07 07 45.4	56.6 N	152.4 W	20	5.1	KODIAK ISLAND REGION.
24	07 36 46.6	56.6 N	152.0 W	20	5.1	KODIAK ISLAND REGION.
24	07 59 39.0	16.3 S	167.9 E	189	5.6	NEW HEBRIDES ISLANDS.
24	08 08 05.2	56.6 N	152.4 W	30	5.2	KODIAK ISLAND REGION. MAG. 5 (BRK), 6 (PAL).
24	09 41 30.4	13.4 S	167.1 E	210	4.7	NEW HEBRIDES ISLANDS.
24	10 07 43*	20.1 S	174.1 W	33	5.1	TONGA ISLANDS.
24	10 13 48*	52.4 N	171.5 E	35	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
24	10 22 42*	19.7 S	174.4 W	33	4.0	TONGA ISLANDS.
24	11 16 51*	18.5 S	68.5 W	33	4.8	CHILE-BOLIVIA BORDER REGION. FELT AT ARICA.
24	11 17 45*	50.5 N	178.6 E	42	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
24	12 29 18*	51.7 N	172.5 E	20	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
24	12 34 42*	50.5 N	174.9 W	49	4.3	ANDREANOF ISLANDS, ALEUTIAN IS.
24	13 30 04.5	57.8 N	148.6 W	13	5.0	GULF OF ALASKA.
24	17 31 10.4	21.9 S	169.9 E	41	6.6	LOYALTY ISLANDS REGION.
24	18 23 59.9	25.4 S	177.3 W	143	5.0	SOUTH OF FIJI ISLANDS.
24	18 35 21*	23.6 S	115.3 W	33	4.5	EASTER ISLAND CORDILLERA.
24	19 34 42*	8.8 S	121.4 E	154	4.9	FLORES ISLAND REGION.
24	22 42 09.6	8.4 N	126.6 E	51	5.8	MINDANAO, PHILIPPINE ISLANDS. FELT.
25	03 23 21*	46.4 N	152.1 E	35	4.5	KURILE ISLANDS.
25	05 21 17.4	52.9 N	171.9 E	15	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
25	07 17 21.4	14.3 S	167.4 E	205	5.8	NEW HEBRIDES ISLANDS.
25	08 53 13.6	52.3 N	172.6 E	31	5.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
25	09 29 55.6	52.1 N	172.6 E	30	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
25	09 49 17*	19.9 S	176.0 W	206		FIJI ISLANDS REGION.
25	11 50 03*	51.3 N	174.0 E	56	4.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
25	12 59 28*	36.4 N	89.5 W	18		NEW MADRID, MISSOURI REGION.
25	14 30 04*	51.7 N	177.2 W	58	3.9	ANDREANOF ISLANDS, ALEUTIAN IS.
25	16 55 44.5	52.8 N	171.8 E	24	4.8	NEAR ISLANDS, ALEUTIAN ISLANDS.
25	18 02 27*	52.2 N	171.7 E	28	4.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
25	18 32 50.5	7.4 S	153.9 E	96	5.6	NEW BRITAIN REGION.
25	19 54 13*	32.2 N	50.4 E	45		IRAN.
25	20 00 03*	55.4 N	168.7 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
25	20 36 32*	38.1 S	80.2 W	33	4.4	SOUTHEAST CENTRAL PACIFIC OCEAN.
25	21 05 40.7	20.4 S	174.1 W	33	4.7	TONGA ISLANDS.
25	22 20 42.5	14.4 S	13.4 W	33	4.8	SOUTH ATLANTIC RIDGE.
25	23 36 29.8	15.1 S	173.4 W	33	4.7	TONGA ISLANDS. FELT AT APIA.
26	00 20 56.3	20.0 S	178.1 W	567	5.8	FIJI ISLANDS REGION.
26	00 51 24.5	39.5 N	110.3 W	0	4.3	UTAH. PROBABLE ROCKBURST.
26	01 41 57*	59.6 N	145.1 W	33	4.5	GULF OF ALASKA.
26	02 20 01.6	45.5 N	151.4 E	33	4.6	KURILE ISLANDS.
26	06 17 18*	28.5 N	130.9 E	33	4.6	RYUKYU ISLANDS.
26	08 39 43*	6.8 N	72.9 W	168	3.9	NORTHERN COLOMBIA.
26	10 04 08*	24.2 N	69.6 E	33	4.6	INDIA-WEST PAKISTAN BORDER REG.
26	12 10 44.0	4.8 N	77.6 W	26	4.5	NEAR WEST COAST OF COLOMBIA.
26	15 26 28*	50.8 N	176.9 E	29		RAT ISLANDS, ALEUTIAN ISLANDS.
26	15 34 08.2					37° 08' 51.4" N. 116° 02' 34.4" W. NEVADA TEST SITE. CUP SHOT ELEVATUON 752.9 METERS (AEC).
26	16 12 36.9	22.2 S	175.0 W	33	5.2	TONGA ISLANDS REGION.
26	16 12 43.6	51.9 N	176.4 E	50	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
26	18 58 45.6	43.2 N	126.3 W	33	5.0	OFF COAST OF OREGON.
26	20 11 33*	1.3 N	29.8 W	33	4.9	CENTRAL MID-ATLANTIC RIDGE.
26	20 29 22.0	36.8 N	30.9 E	110	5.3	TURKEY.
26	21 34 03.4	52.0 N	171.4 E	30	5.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
26	21 47 31*	19.3 N	145.0 E	270	4.3	MARIANA ISLANDS.
26	22 36 19*	52.3 N	172.4 E	33	4.2	NEAR ISLANDS, ALEUTIAN ISLANDS.
26	22 57 50.9	52.2 N	171.5 E	33	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
26	23 01 14.4	5.5 S	152.7 E	37	4.7	NEW BRITAIN REGION.
27	02 57 07*	52.2 N	171.4 E	33	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
27	03 37 20*	52.1 N	171.5 E	33	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
27	05 19 09.7	52.9 N	171.7 E	25	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
27	06 38 01*	52.5 N	171.5 E	30	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
27	08 23 40*	52.1 N	172.8 E	33	4.1	NEAR ISLANDS, ALEUTIAN ISLANDS.
27	09 03 55*	43.8 N	127.3 W	33	3.9	OFF COAST OF OREGON.
27	14 02 57*	51.1 N	175.0 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
27	14 19 42*	40.4 N	138.3 E	25	4.8	EASTERN SEA OF JAPAN.
27	14 46 54*	32.9 S	178.5 W	33		SOUTH OF KERMADEC ISLANDS.
27	17 26 37*	52.4 N	172.8 E	33		NEAR ISLANDS, ALEUTIAN ISLANDS.
27	19 16 19.9	51.6 N	177.6 W	49	4.8	ANDREANOF ISLANDS, ALEUTIAN IS.
27	20 25 15*	43.5 N	125.9 W	33	3.8	OFF COAST OF OREGON.
27	20 26 24.4	6.5 N	123.7 E	87	5.2	MINDANAO, PHILIPPINE ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
27	20 56 24*	51.6 N	177.2 E	43	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
27	22 36 24*	46.4 N	13.1 E	33		AUSTRIA.
27	23 17 38.7	42.6 N	111.6 W	33		EASTERN IDAHO. FELT AT SODA SPRINGS.
27	23 56 57.3	2.6 S	126.2 E	33	6.2	CERAM SEA.
28	00 03 50.0	2.6 S	126.0 E	33	5.0	CERAM SEA.
28	00 09 32*	19.0 S	69.2 W	170	4.1	NORTHERN CHILE.
28	01 37 35*	50.8 N	173.0 E	33	4.7	ALEUTIAN ISLANDS REGION.
28	02 32 21.4	36.2 N	120.4 W	14	4.5	CENTRAL CALIFORNIA.
28	02 48 21.0	52.0 N	171.4 E	55	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
28	03 01 30*	2.9 S	125.7 E	32	4.6	CERAM SEA.
28	05 30 25.4	15.0 S	72.3 W	108	4.6	SOUTHERN PERU.
28	08 41 11*	32.3 N	131.4 E	33	4.7	KYUSHU, JAPAN.
28	09 20 13.0	52.1 N	171.6 E	33	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
28	09 59 58.0	15.7 S	74.1 W	45	5.4	NEAR COAST OF PERU. FELT AT AREQUIPA. MAG. 5-5 1/4 (PAS).
28	13 22 57.6	55.1 N	162.1 E	33	5.9	NEAR EAST COAST OF KAMCHATKA.
28	14 00 17*	55.3 N	161.9 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
28	16 33 15.7	32.4 S	71.3 W	72	6.4	NEAR COAST OF CENTRAL CHILE. ABOUT 400 DEAD OR MISSING, MANY INJURED AND EXTENSIVE PROPERTY DAMAGE IN CENTRAL CHILE. MAG. 7-7 1/4 (PAS).
28	18 18 40*	13.4 N	145.8 E	43	4.4	MARIANA ISLANDS.
28	21 13 11*	24.5 S	180.0 E	488		SOUTH OF FIJI ISLANDS.
28	21 27 25.3	13.4 N	144.3 E	135	4.6	MARIANA ISLANDS.
28	21 42 17.6	52.4 N	159.3 E	33	4.6	OFF EAST COAST OF KAMCHATKA.
28	22 16 34.8	52.9 N	169.6 W	49	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
28	23 49 35*	51.3 N	172.8 E	33	5.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
29	00 05 36.3	14.7 N	146.6 E	61	5.2	MARIANA ISLANDS.
29	00 36 00*	20.8 S	173.6 W	33	4.6	TONGA ISLANDS.
29	01 30 37*	50.2 N	178.7 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
29	02 34 56.1	51.1 N	177.3 E	35	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
29	03 52 06*	17.8 N	100.2 W	33	3.8	GUERRERO, MEXICO. FELT AT CIUDAD ALTAMIRANO.
29	04 29 46*	3.1 S	129.6 E	33	5.3	CERAM.
29	04 56 39*	52.7 N	171.8 E	41	4.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
29	05 27 33*	32.1 S	70.8 W	70	4.1	CHILE-ARGENTINA BORDER REGION.
29	07 06 07*	20.4 S	178.5 W	552	3.6	FIJI ISLANDS REGION.
29	07 24 41*	32.5 S	71.5 W	70	4.2	NEAR COAST OF CENTRAL CHILE. FELT.
29	07 26 07*	20.6 S	175.9 W	200		TONGA ISLANDS.
29	07 44 54*	51.3 N	174.9 E	30	4.8	NEAR ISLANDS, ALEUTIAN ISLANDS.
29	08 44 12*	51.3 N	178.6 E	33		RAT ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
29	09 30 42*	56.3 N	126.3 E	33	4.7	EASTERN RUSSIA.
29	10 09 49*	51.6 N	178.4 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
29	10 28 10.6	53.0 N	168.4 W	33	4.9	FOX ISLANDS, ALEUTIAN ISLANDS.
29	10 47 37.6	40.8 N	142.8 E	33	6.1	NEAR EAST COAST OF HONSHU, JAPAN.
29	11 16 18.5	40.5 N	141.2 E	208	4.0	NEAR EAST COAST OF HONSHU, JAPAN.
29	13 10 22*	33.9 N	65.0 W	10	4.2	NORTH ATLANTIC OCEAN.
29	13 55 41*	51.0 N	176.2 E	33	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
29	14 32 41.2	52.2 N	175.4 E	34	5.0	RAT ISLANDS, ALEUTIAN ISLANDS.
29	15 12 14.5	51.8 N	176.6 E	55	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
29	15 20 15.8	21.4 S	170.2 E	100		LOYALTY ISLANDS REGION.
29	17 35 16*	50.3 N	178.5 E	40	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
29	17 47 48*	17.0 N	99.7 W	33	4.1	GUERRERO, MEXICO.
29	17 57 47*	51.8 N	173.2 E	30	4.3	NEAR ISLANDS, ALEUTIAN ISLANDS.
29	23 57 33.5	28.7 S	178.4 W	228	5.2	KERMADEC ISLANDS.
30	00 21 00.2	20.0 S	173.9 W	33	5.5	TONGA ISLANDS.
30	00 51 48*	50.3 N	177.7 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	01 53 00.6	50.5 N	176.0 E	33	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
30	02 27 07.2	50.6 N	177.9 E	51		RAT ISLANDS, ALEUTIAN ISLANDS. FELT ON AMCHITKA AND AT ADAK. MAG. 7-7 1/4 (PAS), 6 3/4-7 (BRK), 7 3/4 (PAL).
30	02 51 51*	51.1 N	179.2 W	33	4.3	ANDREANOF ISLANDS, ALEUTIAN IS.
30	02 53 15.5	50.4 N	177.5 E	33	5.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 02 57*	50.4 N	177.9 E	30	5.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 07 57*	50.2 N	177.9 E	30	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 11 02.2	50.7 N	178.3 E	33	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 39 52*	50.1 N	176.4 E	30	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 41 54*	50.2 N	178.0 E	33	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 47 24*	50.6 N	177.5 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 53 40*	50.7 N	177.7 E	37	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	03 58 01*	50.8 N	178.5 E	33	3.8	RAT ISLANDS, ALEUTIAN ISLANDS.
30	04 25 24*	51.2 N	178.5 E	35	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
30	04 28 01*	50.3 N	178.1 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	04 32 50.0	50.4 N	177.6 E	35	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	04 51 13*	50.4 N	178.0 E	33	3.8	RAT ISLANDS, ALEUTIAN ISLANDS.
30	04 56 20*	50.3 N	177.9 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 01 25*	50.7 N	178.1 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 13 25*	50.2 N	177.8 E	35	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 15 30*	50.2 N	177.9 E	33		RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 25 59*	50.5 N	177.6 E	30	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
30	05 32 09.9	50.4 N	178.1 E	35	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 36 46*	50.6 N	178.2 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 48 37*	50.2 N	178.2 E	25	3.8	RAT ISLANDS, ALEUTIAN ISLANDS.
30	05 54 15.6	6.6 S	148.1 E	56	4.8	NEW BRITAIN REGION.
30	05 54 22*	50.5 N	178.1 E	33	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 14 58*	50.7 N	177.4 E	30	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 24 16*	50.2 N	177.6 E	30	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 25 01.1	50.1 N	177.3 E	30	5.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 45 16*	50.6 N	178.0 E	33	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 51 39*	50.8 N	177.2 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 55 15*	50.9 N	177.4 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
30	06 59 21*	50.5 N	178.3 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	07 10 53.4	50.2 N	177.8 E	35	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	07 21 10.6	50.2 N	177.7 E	33	5.0	RAT ISLANDS, ALEUTIAN ISLANDS.
30	07 40 37.5	50.3 N	177.4 E	32	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	07 53 23*	51.4 N	176.8 E	35	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	08 01 26.7	50.3 N	177.9 E	30	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
30	08 11 07.3	50.5 N	177.5 E	35	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	08 29 48*	51.7 N	176.9 E	33	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	08 35 35*	50.3 N	178.0 E	30	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	08 41 13*	50.8 N	178.2 E	25	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	08 54 18*	50.1 N	178.3 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
30	09 05 12.7	50.2 N	177.9 E	38	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	09 27 19*	52.1 N	177.3 E	30	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	09 52 22*	50.9 N	178.0 E	43	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
30	09 54 27*	50.2 N	177.8 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	10 25 22.0	6.4 S	154.5 E	70	5.2	SOLOMON ISLANDS.
30	10 26 17*	25.0 S	67.0 W	120		CATAMARCA PROVINCE, ARGENTINA.
30	11 15 31.9	50.5 N	177.7 E	30	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	11 34 56*	50.3 N	178.8 E	57	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	11 42 26.9	51.6 N	174.7 E	20	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
30	12 05 37*	50.4 N	177.5 E	30	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	12 10 29.5	35.8 N	135.2 E	341	4.8	SOUTHERN HONSHU, JAPAN.
30	12 34 59*	51.1 N	178.2 E	25	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
30	12 38 16*	50.9 N	176.3 E	40	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	12 58 30*	51.2 N	177.5 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	13 36 55.3	50.3 N	178.5 E	30	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
30	14 01 00*	13.8 N	90.8 W	33	4.3	NEAR COAST OF GUATEMALA. FELT AT SAN SALVADOR.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
30	14 08 34*	50.7 N	177.5 E	35	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
30	14 38 32*	51.0 N	177.8 E	40	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	14 57 05*	50.5 N	177.8 E	47	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	14 58 25*	51.8 N	179.9 E	35	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
30	15 01 19*	50.7 N	178.2 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
30	15 06 50*	50.6 N	177.4 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
30	15 11 42*	50.4 N	177.5 E	30	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
30	15 13 11*	50.5 N	177.5 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	15 48 47*	50.5 N	177.6 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	15 59 34.1	41.0 N	142.7 E	32	5.7	HOKKAIDO, JAPAN REGION.
30	16 09 02.4	53.7 N	165.6 W	30	5.1	FOX ISLANDS, ALEUTIAN ISLANDS.
30	16 10 26.3	51.6 N	170.3 W	48	4.8	FOX ISLANDS, ALEUTIAN ISLANDS.
30	16 17 34*	50.2 N	177.9 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	16 32 24.2	50.3 N	177.4 E	33	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
30	17 18 56*	43.3 N	145.7 E	33	4.6	HOKKAIDO, JAPAN REGION.
30	17 39 57.4	50.2 N	178.1 E	30	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	17 45 45.5	38.5 N	116.6 W	33		NEVADA.
30	18 09 27.2	50.4 N	177.5 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
30	19 01 27.6	50.2 N	159.4 E	33	5.3	KURILE ISLANDS REGION.
30	19 14 42.8	50.2 N	177.9 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	20 09 31*	50.4 N	177.4 E	25	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
30	21 17 11.3	50.4 N	178.1 E	23	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
30	21 29 05*	50.4 N	177.5 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
30	22 08 51*	21.0 S	173.6 W	33	4.8	TONGA ISLANDS.
31	00 29 46*	50.5 N	177.8 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
31	00 33 37*	51.3 N	176.0 E	35	5.0	RAT ISLANDS, ALEUTIAN ISLANDS.
31	00 34 53*	51.3 N	176.5 E	30		RAT ISLANDS, ALEUTIAN ISLANDS.
31	00 57 12*	19.3 N	105.9 W	33	4.1	NEAR COAST OF JALISCO, MEXICO.
31	02 20 04*	51.8 N	178.4 E	33		RAT ISLANDS, ALEUTIAN ISLANDS.
31	04 29 25.0	51.6 N	175.6 E	61	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
31	05 04 14*	50.5 N	178.2 E	35	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
31	05 34 19*	50.9 N	176.6 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
31	06 26 39*	52.1 N	176.2 E	35	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
31	06 46 13*	50.4 N	177.7 E	33	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
31	08 21 28.5	51.4 N	178.3 E	44	5.1	RAT ISLANDS, ALEUTIAN ISLANDS.
31	08 58 39*	51.1 N	176.6 E	30	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
MAR	H M S	DEG	DEG	KM		
31	09 47 30.7	38.6 N	22.4 E	78	6.3	GREECE. 6 KILLED, 17 INJURED AND MAJOR PROPERTY DAMAGE IN GREECE. FELT WIDELY IN YUGOSLAVIA, THROUGHOUT SOUTHERN ITALY, TRIESTE AND CAIRO. MAG. 6 3/4 (PAS), 6 3/4-7 (BRK), 6 1/2-6 3/4 (PAL).
31	10 46 08.6	50.3 N	178.2 E	30	5.6	RAT ISLANDS, ALEUTIAN ISLANDS.
31	12 01 10.3	38.3 N	22.0 E	74	4.6	GREECE. FELT OVER AN AREA OF 140,000 SQUARE KILOMETERS.
31	12 07 56*	51.7 N	176.9 E	40	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
31	12 40 56*	50.7 N	178.4 E	33	3.7	RAT ISLANDS, ALEUTIAN ISLANDS.
31	13 23 25.5	50.2 N	177.9 E	35	5.0	RAT ISLANDS, ALEUTIAN ISLANDS.
31	14 23 52*	51.0 N	176.6 E	33	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
31	15 04 13*	50.7 N	177.4 E	35	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
31	15 20 03.5	50.2 N	178.7 E	33	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
31	15 25 47*	50.3 N	178.7 E	30	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
31	15 49 09*	50.9 N	178.9 E	25	4.3	RAT ISLANDS, ALEUTIAN ISLANDS.
31	15 54 32.7	50.5 N	177.4 E	30	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
31	16 16 14*	50.8 N	175.4 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
31	16 47 27*	65.1 N	150.6 W	31	3.7	ALASKA.
31	16 50 13.8	1.9 S	77.0 W	130	4.7	ECUADOR.
31	17 09 24.4	51.7 N	174.6 E	39	5.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
31	17 15 02*	50.4 N	177.7 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
31	18 52 46*	21.4 S	174.3 E	33		NEW HEBRIDES ISLANDS REGION.
31	19 38 08.2	50.5 N	177.7 E	47	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
31	19 48 29.7	50.3 N	178.0 E	25	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
31	20 08 26*	39.4 N	24.1 E	33	4.3	AEGEAN SEA. FELT IN BOECTIE AND ON THE ISLAND OF EUBEE.
31	20 22 56*	23.9 S	70.6 W	33	4.5	NEAR COAST OF NORTHERN CHILE.
31	21 09 50.4	50.8 N	179.1 E	33	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
31	21 13 30.1	50.2 N	177.9 E	30	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
31	21 22 51.1	50.3 N	178.2 E	30	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
31	22 32 31.9	50.4 N	177.5 E	30	5.4	RAT ISLANDS, ALEUTIAN ISLANDS.
31	23 31 42.9	52.4 N	171.3 E	30	4.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
31	23 48 22.3	50.3 N	177.7 E	25	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.

Date and Station	Phase (GCT)
	h m s
MAR 1	
COL EP	00 02 23.5
MAR 1	
COL EP	01 36 20.5
MAR 1	
TUC E(P)	02 43 04.7
MAR 1	
TUC EP	03 49 32.0
MAR 1	
BOZ EP	07 13 18.5
MAR 1	
H-07 20 55.3	
5.5S 152.1E	
h ABOUT 35KM	
GUA EP	07 25 30.2
KIP IP	07 30 30.5
I▸P	30 41.4
HON IP	07 30 31.7
COL EP	07 33 15.0
BRW IP	07 33 21.2
EUR IP	07 34 16.0
FPKKP	51 16.0
BCN EP	07 34 21.0
E	34 36.2
EPP	38 10.0
BOZ IP D	07 34 30.8
GCA E(P)	07 34 32.7
TUC E(P)	07 34 35.8
EPP	38 34.6
FGU EP	07 34 39.0
RCD EP	07 34 58.0
E	35 04.0
CSC EP'	07 39 50.0
SJG EP'	07 40 25.2
MAR 1	
H-07 28 07.7	
5.1S 151.7E	
h ABOUT 63KM	
COL IP	07 40 24.0
MAR 1	
COL IP	07 39 39.9
MAR 1	
H-07 46 57.5	
5.2S 152.1E	
h ABOUT 33KM	
GUA EP	07 51 32.0
KIP EP	07 56 31.8
COL IP	07 59 17.0

Date and Station	Phase (GCT)
	h m s
BRW E(P)	07 59 20.5
EUR IP	08 00 18.9
BCN EP	08 00 23.0
BOZ EP	08 00 33.0
RCD E(P)	08 00 59.5
MAR 1	
COL EP	08 01 53.0
MAR 1	
H-08 18 56.4	
21.1N 121.2E	
h ABOUT 42KM	
BRW EP	08 29 50.0
E	30 11.5
COL IP	08 30 14.9
KIP EP	08 30 32.2
BOZ EP	08 32 30.5
EUR IP	08 32 37.5
MAR 1	
COL IP	08 24 08.3
MAR 1	
H-09 04 35.5	
29.0S 069.8W	
h ABOUT 103KM	
TUC E(P)	09 15 51.8
E▸P	16 17.8
ALQ EP D	09 15 53.0
E▸P	16 19.0
RCD EP	09 16 28.5
E▸P	16 55.5
FGU EP	09 16 29.0
EUR IP	09 16 39.0
I	16 51.4
I▸P	17 06.0
BUT E(P)	09 16 51.0
BOZ IP D	09 16 52.7
MAR 1	
ALQ EP	09 07 44.0
MAR 1	
H-09 08 45.0	
05.4S 152.0E	
h ABOUT 29KM	
GUA EP	09 13 20.6
KIP IP	09 18 20.4
I▸P	18 32.7
HON EP	09 18 22.3
COL EP	09 21 06.0

Date and Station	Phase (GCT)
	h m s
BRW IP	09 21 11.6
E	21 36.6
EUR IP	09 22 07.0
BCN EP	09 22 10.8
E	22 16.7
BOZ EP	09 22 21.0
TUC E(P)	09 22 25.6
FGU EP	09 22 29.5
RCD E(P)	09 22 48.0
E	23 09.5
SJG EP'	09 28 15.0
MAR 1	
COL IP	09 18 11.5
MAR 1	
ALQ E(P)	09 26 34.0
MAR 1	
COL IP	09 37 42.0
MAR 1	
H-09 54 39.2	
52.0N 173.9E	
h ABOUT 25KM	
COL EP	09 59 47.0
BRW EP	09 59 48.0
BOZ EP	10 03 13.5
EUR IP	10 03 23.6
RCD E(P)	10 03 57.0
MAR 1	
BRW I(P)	10 01 31.5
MAR 01	
BCN EP	10 02 32.5
IL	03 06.5
TUC EP	10 02 35.8
E	02 55.1
E(L)	03 44.0
MAR 1	
H-10 19 45.7	
05.2S 151.9E	
h ABOUT 59KM	
COL IP	10 32 03.3
MAR 1	
H-10 24 12.4	
44.0N 127.4W	
h ABOUT 33KM	
BOZ EP	10 26 56.8
ALQ E(P)	10 28 27.0
MAR 1	
TUC E(P)	10 43 32.8

Date and Station	Phase (GCT)
	h m s
MAR 1	
BRW EP	11 27 40.0
MAR 1	
H-11 29 37.6	
05.1S 151.9E	
h ABOUT 63KM	
COL IP	11 41 54.3
MAR 1	
BOZ EP	11 48 48.0
MAR 1	
TUC E(P)	12 04 30.8
MAR 1	
H-12 16 33.6	
51.1N 178.6E	
h ABOUT 33KM	
BRW E(P)	12 21 40.0
BOZ EP	12 24 48.0
EUR EP	12 24 56.2
MAR 1	
BOZ EP	12 21 54.0
MAR 1	
H-13 20 56.7	
21.2N 121.2E	
h ABOUT 42KM	
BRW EP	13 31 49.1
KIP EP	13 32 32.1
BOZ EP	13 34 32.0
EUR IP	13 34 37.6
TUC E(P)	13 35 10.4
ALQ EP'	13 39 09.0
MAR 1	
BRW EP	13 47 34.5
MAR 1	
BRW E(P)	13 54 04.5
MAR 1	
H-13 56 07.4	
61.7N 147.7W	
h ABOUT 43KM	
COL EP	13 56 57.2
I	57 35.5
BRW E(P)	13 58 35.7
BOZ EP	14 01 41.8
EUR E(P)	14 02 08.6
TUC E(P)	14 03 19.3
MAR 1	
TUC E(P)	14 31 38.0

Date and Station	Phase (GCT)
	h m s
MAR 1	
H-15 10 35.0	
16.6N 094.2W	
h ABOUT 50KM	
TUC E(P)	15 15 25.2
E	15 39.2
MAR 1	
BRW EP	15 18 34.8
MAR 1	
BRW EP	15 42 12.3
MAR 1	
H-15 54 23.5	
41.4S 085.6W	
h ABOUT 33KM	
SJG EP	16 04 41.8
TUC EP	16 06 14.4
ALQ EP	16 06 21.0
FGU EP	16 06 57.0
BOZ EP	16 07 20.9
MAR 1	
BRW EP	16 04 02.0
MAR 1	
H-18 27 07.0	
27.6S 177.2W	
h ABOUT 15KM	
TUC EP	18 39 52.2
E	39 57.2
MAR 1	
TUC EP	18 59 12.8
MAR 1	
H-19 22 01.6	
52.2N 173.9E	
h ABOUT 30KM	
COL IP	19 27 08.5
BRW IP	19 27 08.6
EPCP	30 56.0
KIP IP	19 29 15.4
IpP	29 24.8
HON EP	19 29 17.7
BOZ IP D	19 30 34.5
IpP	30 44.0
IsP	30 49.0
IPCP	32 05.8
IpPCP	32 16.0
SLC IP	19 30 56.8
FGU EP	19 31 06.8
BCN EP	19 31 07.5
GCA IP	19 31 16.0
RCD IP D	19 31 18.0
EpP	31 29.0

Date and Station	Phase (GCT)
	h m s
TUC EP	19 31 43.0
ALQ IP	19 31 48.8
SJG EP	19 35 14.2
MAR 1	
H-20 03 09.8	
12.3S 166.7E	
h ABOUT 190KM	
COL EP	20 15 20.0
BRW EP	20 15 34.6
EpP	16 19.3
EUR EP	20 15 40.6
EpP	16 24.2
TUC E(P)	20 15 50.2
E	16 38.5
BOZ EP	20 16 03.2
EpP	16 48.2
MAR 1	
COL EP	20 16 04.0
MAR 1	
EUR IP	20 45 40.9
MAR 1	
TUC E(P)	20 57 46.0
E(L)	58 41.0
MAR 01	
COL EP	20 58 36.1
BRW E(P)	20 58 39.4
MAR 1	
KIP EP	21 28 49.7
MAR 1	
H-21 32 13.3	
15.4N 092.7W	
h ABOUT 117KM	
BHP IP	21 35 32.0
CSC P	21 36 50.0
ALQ IP	21 37 12.2
TUC IP C	21 37 16.3
ES	41 27.0
SJG EP C	21 37 31.5
I	37 46.1
E	37 53.5
IPP	38 16.0
I	38 38.8
IPCP	41 01.6
ES	41 51.5
ISCP	44 35.0
ISCS	48 23.0
WAS IP	21 37 47.0
I	38 02.0
GCA IP	21 37 51.4
PHI EP	21 38 01.2
I	43 18.0

Date and Station	Phase (GCT)
	h m s
BCN IP C	21 38 01.8
I	38 22.5
E	38 45.0
EL	46 40.0
FGU IP	21 38 08.5
RCD EP C	21 38 13.5
E	38 20.0
SLC IP	21 38 17.6
IPCP	41 15.4
EUR IP C	21 38 28.4
BOZ IP C	21 38 50.0
I	40 04.5
IS	44 12.0
UKI E(P)	21 39 06.0
COL IP	21 42 21.5
KIP IP	21 42 22.7
I	42 46.1
HON IP	21 42 23.4
I	42 47.7
BRW IP C	21 42 58.7
I	43 06.6
E	43 53.2
ES	51 46.6
MAR 1	
H-21 52 04.4	
23.5S 179.0E	
h ABOUT 541KM	
KIP EP	22 00 09.0
HON EP	22 00 11.0
BCN EP	22 03 49.5
EUR IP D	22 03 53.8
TUC EP	22 03 54.4
GCA IP	22 04 02.3
COL EP	22 04 13.0
ALQ IP	22 04 13.8
FGU EP	22 04 17.3
BOZ EP	22 04 21.2
BRW EP	22 04 34.5
SJG EP'	22 09 51.0
MAR 1	
TUC E(P)	22 08 47.5
E	08 52.0
MAR 1	
BRW EP	22 10 19.5
COL IP	22 10 43.5

Date and Station	Phase (GCT)
	h m s
MAR 1	
EUR EP	22 14 15.0
E	16 16.7
COL IP	22 15 16.4
BRW EP	22 15 21.0
MAR 1	
GCA IP	22 12 02.7
MAR 1	
EUR IP	22 37 00.7
IS	37 13.5
MAR 1	
COL E(P)	23 24 31.0
MAR 1	
H-23 49 09.0	
51.6N 172.7E	
h ABOUT 35KM	
BRW EP	23 54 22.0
COL EP	23 54 23.0
BOZ EP	23 57 48.0
EUR IP	23 57 58.6
IpP	58 09.6
MAR 1	
H-23 52 32.1	
27.3S 177.9W	
h ABOUT 33KM	
TUC EP	24 05 15.0
BCN EP	24 05 15.5
EUR IP	24 05 19.9
GCA E(P)	24 05 26.5
BOZ EP	24 05 50.0
COL EP	24 05 51.5
MAR 02	
EUR EP	23 53 22.5
MAR 2	
SLC EP	00 04 50.6
FGU EP	00 05 23.5
MAR 2	
SJG EP	00 27 44.2
EL	28 11.0
MAR 2	
COL IP	00 47 58.5
MAR 2	
COL EP	01 20 39.8
MAR 2	
HON IP	01 34 55.5
IS	34 59.6
KIP IP	01 34 56.0
ES	35 01.8

Date and Station	Phase (GCT)
	h m s
MAR 2	
TUC E(P)	02 40 55.7
E	41 40.9
MAR 2	
H-02 50 35.5	
27.4S 177.7W	
h ABOUT 33KM	
BCN EP	03 03 17.8
TUC EP	03 03 19.8
EUR IP	03 03 23.4
GCA E(P)	03 03 30.5
BOZ EP	03 03 52.0
MAR 2	
BRW EP	03 01 13.2
MAR 2	
H-03 46 41.7	
2.4N 084.5W	
h ABOUT 33KM	
FGU E(P)	03 54 52.0
BOZ E(P)	03 55 28.0
MAR 2	
BRW EP	04 08 24.0
MAR 2	
TUC EP	04 13 20.8
MAR 2	
H-04 40 13.1	
27.1S 177.6W	
h ABOUT 33KM	
TUC EP	04 52 57.0
MAR 2	
TUC E(P)	04 59 07.5
MAR 2	
H-05 10 01.5	
27.4S 177.7W	
h ABOUT 33KM	
TUC E(P)	05 22 45.9
MAR 2	
H-05 13 53.9	
27.3S 177.7W	
h ABOUT 33KM	
TUC E(P)	05 26 38.5
MAR 2	
H-05 40 19.6	
27.3S 177.7W	
h ABOUT 33KM	
TUC EP	05 53 04.1
FUR EP	05 53 06.9
COL E(P)	05 53 40.0
MAR 2	
TUC F(P)	05 50 14.0

Date and Station	Phase (GCT)
	h m s
MAR 2	
BRW E(P)	05 57 24.1
MAR 2	
H-05 57 36.8	
27.3S 177.5W	
h ABOUT 33KM	
BCN EP	06 10 18.0
TUC EP	06 10 20.3
EUR IP	06 10 23.5
GCA EP	06 10 31.0
ALQ IP	06 10 41.0
BOZ EP	06 10 52.8
COL EP	06 10 54.0
MAR 2	
H-06 27 20.7	
27.3S 177.8W	
h ABOUT 46KM	
TUC EP	06 40 03.8
MAR 2	
EUR IP	06 32 11.5
IS	32 32.7
MAR 2	
H-06 34 47.9	
61.0S 154.8E	
h ABOUT 33KM	
EUR EP'	06 53 45.0
FGU EP'	06 53 54.5
BOZ EP'	06 54 00.0
MAR 2	
COL EP	06 51 32.0
BRW EP	06 51 34.1
MAR 2	
EUR IP	07 18 43.5
IS	19 05.3
MAR 2	
COL EP	07 24 04.0
MAR 2	
H-07 25 05.3	
27.4S 177.7W	
h ABOUT 68KM	
TUC E(P)	07 37 45.8
EUR E(P)	07 37 48.5
E	38 05.5
ALQ E(P)	07 38 04.0
COL E(P)	07 38 24.0
MAR 2	
BRW EP	07 27 57.0

Date and Station	Phase (GCT)
	h m s
MAR 2	
EUR EP	07 52 17.0
MAR 2	
BRW EP	07 58 24.0
MAR 2	
BRW EP	08 56 00.9
MAR 2	
BRW E(P)	08 58 28.9
MAR 2	
BRW EP	09 03 12.3
COL EP	09 03 43.0
MAR 2	
H-09 09 03.9	
25.7S 178.6W	
h ABOUT 260KM	
TUC E(P)	09 21 19.4
EUR E(P)	09 21 21.5
EpP	22 23.5
MAR 2	
H-09 19 41.6	
27.2S 177.9W	
h ABOUT 39KM	
KIP FP	09 28 51.3
BCN EP	09 32 18.0
TUC EP	09 32 25.1
EUR IP	09 32 28.4
GCA E(P)	09 32 35.4
ALQ EP	09 32 45.0
FGU E(P)	09 32 52.0
BOZ EP	09 32 57.0
COL EP	09 33 00.0
MAR 2	
H-09 30 04.8	
51.2N 174.0E	
h ABOUT 27KM	
BOZ EP	09 38 40.8
EpP	38 50.0
EUR IP	09 38 50.4
IpP	39 00.8
TUC E(P)	09 39 47.5
E	40 00.0
MAR 2	
H-09 31 50.9	
73.5N 007.2E	
h ABOUT 33KM	
FGU EP	09 41 44.0
EUR E(P)	09 42 04.0
E	42 09.0

Date and Station	Phase (GCT)
	h m s
TUC E(P)	09 42 42.0
MAR 2	
GUA E(P)	09 40 46.0
MAR 2	
TUC E(P)	09 55 44.3
MAR 2	
BRW EP	09 59 17.0
COL E(P)	10 01 42.0
MAR 2	
H-10 23 32.8	
26.9S 177.7W	
h ABOUT 33KM	
TUC EP	10 36 17.0
BCN E(P)	10 36 18.0
EUR EP	10 36 20.1
COL E(P)	10 36 48.0
BOZ E(P)	10 36 52.5
MAR 2	
TUC E(P)	10 24 15.8
MAR 2	
H-10 29 07.5	
27.6S 177.5W	
h ABOUT 33KM	
TUC E(P)	10 41 52.8
EUR EP	10 41 54.3
MAR 2	
H-10 35 40.0	
51.4N 174.7E	
h ABOUT 33KM	
COL EP	10 40 48.0
BRW EP	10 40 51.0
BOZ EP	10 44 11.5
EpP	44 19.6
EUR IP	10 44 21.2
IpP	44 31.7
TUC E(P)	10 45 19.8
MAR 2	
BRW EP	10 47 18.0
MAR 2	
EUR IP	11 20 45.9
IS	21 07.5
MAR 2	
H-11 42 25.9	
51.2N 174.5E	
h ABOUT 11KM	
COL EP	11 47 39.9
BRW FP	11 47 42.3
EUR IP	11 51 11.3

Date and Station	Phase (GCT)
	h m s
MAR 2	
H-11 42 33.3	
5.3S 152.3E	
h ABOUT 40KM	
COL IP	11 54 51.7
BRW EP	11 54 57.4
EUR IP	11 55 52.8
BOZ EP	11 56 07.9
MAR 2	
COL EP	11 50 11.0
MAR 2	
H-12 26 39.2	
27.3S 177.6W	
h ABOUT 33KM	
TUC E(P)	12 39 23.0
EUR EP	12 39 26.5
ALQ EP	12 39 43.0
BRW EP	12 40 14.0
MAR 2	
TUC EP	12 28 34.4
EL	29 46.5
MAR 2	
H-12 38 16.2	
51.4N 179.3W	
h ABOUT 33KM	
COL EP	12 43 00.7
BRW EP	12 43 15.5
BOZ EP	12 46 19.1
EUR EP	12 46 29.9
MAR 2	
COL EP	12 44 13.0
MAR 2	
COL IP	12 50 57.6
MAR 2	
H-12 53 26.0	
26.9S 178.0W	
h ABOUT 75KM	
TUC EP	13 06 05.3
EUR IP	13 06 08.2
ALQ I(P)	13 06 25.8
BOZ EP	13 06 36.0
MAR 2	
H-12 57 38.0	
27.3S 177.6W	
h ABOUT 33KM	
TUC E(P)	13 10 22.3
EUR EP	13 10 26.0

Date and Station	Phase (GCT)
	h m s
MAR 2	
TUC E(P)	13 26 18.7
MAR 2	
BRW E(P)	13 42 47.7
MAR 2	
COL EP	14 10 33.2
MAR 2	
H-14 23 08.6	
27.3S 177.7W	
h ABOUT 34KM	
BCN E(P)	14 35 49.8
E	35 55.5
TUC EP	14 35 52.5
EUR EP	14 35 55.5
ALQ EP	14 36 12.5
BOZ EP	14 36 25.0
MAR 3	
EUR EP	14 39 23.7
MAR 2	
H-14 32 08.9	
27.4S 177.6W	
h ABOUT 9KM	
TUC EP	14 44 56.0
E	45 54.3
EUR EP	14 44 59.0
ALQ EP	14 45 16.2
COL E(P)	14 45 29.3
BOZ EP	14 45 31.5
MAR 2	
BRW EP	14 35 39.7
COL EP	14 35 50.3
BOZ EP	14 39 13.9
MAR 2	
COL EP	14 54 51.8
EUR EP	14 58 23.5
E	58 29.1
E	58 36.9
MAR 2	
GCA IP	15 01 14.5
TUC E(P)	15 01 23.0
EUR E(P)	15 01 51.5
E	01 56.2
EL	02 38.0
MAR 2	
H-15 12 39.6	
27.0S 177.7W	
h ABOUT 33KM	
TUC EP	15 25 23.0
E	25 28.2

Date and Station	Phase (GCT)
	h m s
EUR EP	15 25 26.2
BOZ EP	15 25 54.5
MAR 2	
H-15 20 22.3	
27.1S 176.7W	
h ABOUT 33KM	
TUC E(P)	15 33 03.3
MAR 2	
H-15 23 27.7	
27.3S 178.2W	
h ABOUT 089KM	
TUC EP	15 36 06.9
EUR EP	15 36 09.5
ALQ I(P)	15 36 27.3
BOZ EP	15 36 38.2
COL EP	15 36 41.1
MAR 2	
H-15 48 31.6	
27.1S 177.5W	
h ABOUT 33KM	
TUC EP	16 01 14.5
EUR EP	16 01 18.2
ALQ I(P)	16 01 35.4
BOZ EP	16 01 46.5
MAR 2	
TUC E(P)	16 11 35.0
MAR 2	
H-16 25 04.0	
27.0S 177.7W	
h ABOUT 33KM	
TUC EP	16 37 48.0
EUR EP	16 37 51.0
ALQ I(P)	16 38 08.7
MAR 2	
TUC E(P)	16 29 20.2
MAR 2	
H-16 34 26.9	
27.0S 177.7W	
h ABOUT 70KM	
TUC EP	16 47 05.7
EUR EP	16 47 09.5
ALQ IP	16 47 27.0
BOZ E(P)	16 47 37.0
COL EP	16 47 40.0
MAR 2	
TUC E(P)	16 39 57.8

Date and Station	Phase (GCT)
	h m s
MAR 2	
GUA E(P)	16 51 35.0
MAR 2	
BOZ EP	16 48 20.5
MAR 2	
BRW E(P)	16 55 55.0
MAR 2	
BRW EP	17 08 12.3
MAR 2	
FGU EP	17 38 32.5
E(S)	38 53.8
MAR 2	
BRW E(P)	17 44 23.5
COL EP	17 44 37.0
MAR 2	
BOZ EP	17 48 02.0
MAR 2	
BRW E(P)	18 01 49.3
MAR 2	
H-18 55 50.7	
05.4S 152.2E	
h ABOUT 48KM	
COL IP	19 08 10.0
EUR E(P)	19 09 10.5
BOZ EP	19 09 24.9
MAR 2	
TUC E(P)	19 16 00.7
MAR 2	
H-19 29 16.5	
27.5S 177.5W	
h ABOUT 33KM	
TUC E(P)	19 41 59.8
EUR EP	19 42 03.5
MAR 2	
H-19 51 01.0	
27.2S 177.9W	
h ABOUT 33KM	
TUC E(P)	20 03 43.3
BCN EP	20 03 45.0
EUR EP	20 03 48.4
ALQ I(P)	20 04 06.2
BOZ E(P)	20 04 15.0
COL EP	20 04 18.8
MAR 2	
BRW E(P)	20 03 27.5
MAR 2	
GUA E(P)	20 08 29.0

Date and Station	Phase (GCT)
	h m s
MAR 2	
GCA IP	20 12 36.7
E(S)	12 49.0
EUR E(P)	20 13 16.5
E	13 20.5
FL	14 01.0
MAR 2	
GCA IP	20 16 32.0
E(S)	16 44.5
EUR EP	20 17 10.0
E	17 15.0
EL	17 56.0
MAR 2	
H-20 24 19.2	
27.3S 177.5W	
h ABOUT 33KM	
TUC E(P)	20 37 02.0
MAR 2	
TUC E(P)	20 54 12.7
MAR 2	
TUC E(P)	20 57 36.0
MAR 2	
H-21 02 54.7	
51.4N 173.4E	
h ABOUT 33KM	
BRW E(P)	21 08 03.3
COL EP	21 08 07.0
MAR 2	
H-21 07 20.7	
27.4S 177.5W	
h ABOUT 33KM	
TUC E(P)	21 20 04.7
MAR 2	
H-21 22 29.9	
26.7S 177.9W	
h ABOUT 33KM	
TUC E(P)	21 35 12.8
EUR E(P)	21 35 15.0
ALQ I(P)	21 35 33.4
BOZ EP	21 35 44.0
MAR 2	
TUC E(P)	21 26 05.8
MAR 2	
H-21 36 38.4	
28.2N 139.3E	
h ABOUT 495KM	
GUA E(P)	21 39 54.0
E(S)	42 35.0
BRW IP	21 45 26.9
IpP	47 07.3
BUT IP	21 48 05.2
IpP	49 52.2

Date and Station	Phase (GCT)
	h m s
BOZ IP C	21 48 09.5
EpP	49 58.0
EUR IP C	21 48 12.0
EpP	49 58.0
I(pPCP)	50 06.2
SLC IP	21 48 22.3
EpP	50 12.0
BCN EP	21 48 24.5
EpP	50 14.2
E(pPCP)	50 20.5
FGU IP	21 48 28.7
IpP	50 17.7
RCD E(P)	21 48 36.0
TUC IP C	21 48 47.6
MAR 2	
EUR EP	21 40 02.0
IS	40 23.5
MAR 2	
FGU EP	21 41 14.8
MAR 2	
TUC E(P)	21 55 17.5
MAR 2	
H-22 00 07.8	
38.6N 028.3E	
h ABOUT 45KM	
BRW I(P)	22 11 20.4
COL EP	22 11 57.0
BOZ IP D	22 12 58.9
E	13 28.5
EUR EP	22 13 31.2
MAR 2	
COL IP	22 04 13.0
I	04 17.3
I	06 20.5
MAR 2	
TUC E(P)	22 36 23.7
MAR 2	
H-22 42 00.1	
27.9S 177.5W	
h ABOUT 33KM	
TUC E(P)	22 54 46.0
MAR 2	
TUC EP	22 57 07.0
MAR 2	
TUC E(P)	23 03 31.8
MAR 2	
BRW E(P)	23 17 23.0
MAR 2	
BOZ EP	23 21 16.0

Date and Station	Phase (GCT)
	h m s
MAR 2	
H-23 30 42.8	
26.7S 178.0W	
h ABOUT 109KM	
BCN EP	23 43 14.0
TUC EP	23 43 16.0
EUR EP	23 43 20.0
ALQ IP	23 43 37.2
BOZ EP	23 43 48.0
COL EP	23 43 50.0
MAR 2	
H-23 33 39.3	
27.0S 177.7W	
h ABOUT 33KM	
BCN EP	23 46 19.5
TUC EP	23 46 22.0
ALQ EP	23 46 42.3
COL E(P)	23 46 51.0
BOZ EP	23 46 54.5
MAR 2	
BOZ FP	23 50 10.8
EUR IP D	23 50 20.6
IpP	50 37.8
TUC E(P)	23 51 17.9
MAR 2	
BUT EP	23 55 58.2
MAR 3	
COL IP	00 36 59.0
E	37 07.9
MAR 3	
H-00 55 46.7	
51.4N 170.3E	
h ABOUT 33KM	
COL EP	01 01 10.0
BOZ EP	01 04 36.6
I	04 50.0
I	04 54.0
EUR IP	01 04 47.1
I	04 58.1
BCN E(P)	01 05 09.0
E	05 23.0
RCD EP	01 05 19.5
ALQ E(P)	01 05 50.7
MAR 3	
H-01 02 24.4	
27.2S 177.7W	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
TUC E(P)	01 15 08.7
E	15 15.0
EUR EP	01 15 11.5
ALQ I(P)	01 15 29.1
MAR 3	
BOZ FP	01 50 11.0
MAR 3	
TUC E(P)	01 56 08.4
MAR 3	
TUC E(P)	02 11 06.8
MAR 3	
BRW E(P)	02 13 24.7
COL EP	02 13 31.4
MAR 3	
TUC E(P)	02 22 14.0
MAR 3	
H-02 36 10.1	
27.3S 177.5W	
h ABOUT 33KM	
TUC E(P)	02 48 54.4
EUR EP	02 48 56.0
BOZ E(P)	02 49 25.0
MAR 3	
TUC E(P)	02 44 13.0
MAR 3	
H-03 17 04.1	
27.2S 177.6W	
h ABOUT 33KM	
BCN EP	03 29 46.0
E	30 03.0
TUC E(P)	03 29 47.0
EUR IP	03 29 49.6
ALQ IP	03 30 09.4
FGU E(P)	03 30 13.0
BUT FP	03 30 18.3
COL FP	03 30 20.0
BOZ EP	03 30 21.0
MAR 3	
H-03 26 43.9	
06.0S 128.3E	
h ABOUT 340KM	
COL E(P)	03 39 23.2
EUR EP'	03 44 45.1
FSKP	47 48.0
ALQ IP'	03 45 01.8
MAR 3	
TUC EP	04 12 13.0

Date and Station	Phase (GCT) h m s
MAR 3	
H-04 23 04.5	
27.8S 177.3W	
h ABOUT 33KM	
TUC EP	04 35 48.3
MAR 3	
BRW E(P)	04 55 18.0
MAR 3	
COL EP	05 00 49.0
MAR 3	
H-05 11 01.1	
28.1S 177.5W	
h ABOUT 33KM	
TUC E(P)	05 23 48.7
EUR EP	05 23 51.5
ALQ IP	05 24 08.9
COL E(P)	05 24 21.3
MAR 3	
EUR EP	05 45 25.7
FL	46 08.7
MAR 3	
H-05 52 57.4	
27.2S 177.6W	
h ABOUT 33KM	
TUC EP	06 05 41.4
EUR EP	06 05 44.5
ALQ EP	06 06 02.2
BOZ EP	06 06 15.0
MAR 3	
H-06 14 57.0	
49.8N 078.1E	
h ABOUT 0KM	
BRW IP	06 24 17.1
I	25 25.5
COL IP	06 25 08.0
BOZ IP	06 27 33.5
FGU IP	06 27 58.2
EUR IP C	06 28 02.2
IP'P'	53 46.0
BCN EP	06 28 19.0
ALQ I(P)	06 28 26.9
TUC E(P)	06 28 36.7
EPKKP	45 12.0
EP'P'	53 43.3
MAR 3	
H-07 01 40.8	
27.8S 177.5W	
h ABOUT 33KM	
TUC E(P)	07 14 25.3
EUR EP	07 14 28.0
MAR 3	
COL EP	07 11 19.8
BRW EP	07 11 32.2
MAR 3	
H-07 20 44.2	
44.6N 101.7E	
h ABOUT 33KM	
BRW IP	07 29 51.6
COL IP	07 30 36.8
BUT EP	07 33 16.3
BOZ EP	07 33 20.0
RCD EP	07 33 37.0
E	33 42.5
EUR IP C	07 33 41.7
FGU EP	07 33 44.4
BCN EP	07 33 58.0
E	34 03.5
ALQ I(P)	07 34 14.7
MAR 3	
TUC E(P)	07 30 56.8
MAR 3	
TUC E(P)	07 46 26.0
MAR 3	
H-07 57 40.0	
50.8N 177.6E	
h ABOUT 39KM	
COL EP	08 02 40.0
BRW EP	08 02 50.3
BOZ EP	08 06 00.0
EUR IP	08 06 07.8
RCD E(P)	08 06 44.5
MAR 3	
H-08 04 22.3	
53.5N 177.4W	
h ABOUT 33KM	
BRW E(P)	08 09 02.5
BOZ EP	08 12 12.0
EUR EP	08 12 22.5
MAR 3	
BRW E(P)	08 44 02.3
MAR 3	
GCA IP	09 05 20.5
BCN E(P)	09 05 50.2
EL	06 23.5
EUR EP	09 05 58.0
I	06 03.5
EL	06 44.5
MAR 3	
TUC EP	09 10 19.2
MAR 3	
BOZ EP	09 15 15.5
MAR 3	
BRW EP	09 20 33.6
MAR 3	
TUC E(P)	09 19 19.0
EUR EP	09 19 23.0
COL IP	09 25 19.3
MAR 3	
H-09 25 47.0	
51.7N 174.0E	
h ABOUT 33KM	
COL IP	09 30 55.7
BRW EP	09 30 57.4
BOZ EP	09 34 20.0
EUR EP	09 34 30.0
MAR 3	
BOZ EP	09 26 07.0
MAR 3	
BRW E(P)	09 29 01.0
E	29 16.5
MAR 3	
BOZ EP	09 51 00.0
MAR 3	
COL EP	10 02 05.8
MAR 3	
BRW E(P)	10 25 21.2
MAR 3	
H-10 42 34.4	
51.7N 175.3E	
h ABOUT 44KM	
COL EP	10 47 36.0
BRW IP	10 47 40.0
EUR IP	10 51 10.5
BCN E	10 51 40.5
TUC E(P)	10 52 09.0
MAR 3	
BRW EP	11 01 19.4
MAR 3	
BHP EP	11 05 25.0
IS	06 06.0
MAR 3	
BHP IP	11 09 46.0
IS	10 10.0
MAR 3	
H-11 25 24.0	
27.3S 177.6W	
h ABOUT 76KM	
TUC EP	11 38 03.1
E	38 08.0
EUR EP	11 38 06.5
MAR 3	
TUC E(P)	11 33 06.9
BOZ EP	11 34 54.0
MAR 3	
H-11 36 28.3	
27.2S 177.6W	
h ABOUT 33KM	
BCN EP	11 49 09.0
TUC EP	11 49 11.8
EUR IP	11 49 16.4
ALQ IP	11 49 32.2
BOZ EP	11 49 43.5
COL EP	11 49 46.0
MAR 3	
BRW E(P)	11 45 22.0
MAR 3	
EUR EP	12 09 47.0
E'P	10 00.5
MAR 3	
BOZ EP	12 21 05.5
MAR 3	
TUC EP	12 34 22.0
EUR EP	12 34 25.5
ALQ E(P)	12 34 43.0
MAR 3	
TUC E(P)	12 37 55.1
EUR EP	12 38 54.0
MAR 3	
H-13 05 27.6	
03.2N 084.0W	
h ABOUT 33KM	
ALQ I(P)	13 12 44.0
BOZ EP	13 14 10.0
MAR 3	
EUR EP	13 16 32.5
MAR 3	
H-13 34 04.9	
15.7S 173.3W	
h ABOUT 33KM	
EUR EP	13 46 17.0
COL EP	13 46 26.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	13 46 26.0
MAR 3	
H-13 40 37.9	
51.5N 179.5E	
h ABOUT 33KM	
COL EP	13 45 25.0
FUR IP	13 48 55.7
MAR 3	
H-13 50 57.5	
50.9N 177.2E	
h ABOUT 40KM	
COL EP	13 56 01.7
BOZ EP	13 59 18.0
EUR EP	13 59 25.8
MAR 3	
H-13 56 23.2	
50.0N 179.0E	
h ABOUT 22KM	
COL EP	14 01 25.0
BRW IP	14 01 38.7
BOZ EP	14 04 40.0
EUR IP	14 04 47.3
BCN EP	14 05 06.0
TUC E(P)	14 05 45.8
MAR 3	
TUC E(P)	13 58 16.0
MAR 3	
TUC EP	14 12 25.8
EUR F(P)	14 12 29.0
ALQ I(P)	14 12 46.4
MAR 3	
H-14 36 26.0	
51.2N 174.7E	
h ABOUT 25KM	
COL E(P)	14 41 32.0
BRW FP	14 41 40.0
BOZ EP	14 44 59.0
E	46 08.5
EUR IP D	14 45 08.4
I	46 18.0
TUC E(P)	14 46 06.7
ALQ I(P)	14 46 12.8
MAR 3	
H-14 39 05.0	
27.0S 177.8W	
h ABOUT 43KM	
UKI E(P)	14 51 28.5
BCN EP	14 51 44.5
E	51 49.5
TUC IP D	14 51 47.4
FUR IP	14 51 50.5
SLC EP	14 52 06.7
ALQ IP	14 52 08.0
BUT EP	14 52 17.3
BOZ IP	14 52 19.5
I	52 25.1
COL IP	14 52 21.0
MAR 3	
COL E(P)	14 56 13.4
MAR 3	
H-15 14 09.7	
05.5S 151.9E	
h ABOUT 44KM	
GUA IP	15 18 43.0
KIP EP	15 23 45.0
I(S)	31 40.0
E	33 46.0
EL	37 48.0
HON EP	15 23 46.0
COL IP	15 26 29.0
BRW IP	15 26 34.2
SIT E(P)	15 26 42.3
UKI E(P)	15 27 05.7
FUR IP C	15 27 30.6
EPP	31 19.0
EPKKP	44 38.0
BCN EP C	15 27 34.0
E	28 11.6
EPP	31 27.0
PUT EP	15 27 42.3
BOZ EP	15 27 44.0
SLC E(P)	15 27 49.7
TUC E(P)	15 27 50.0
EPP	31 52.5
ALQ IP	15 28 08.2
RCD EP	15 28 13.0
E	28 17.5
MAR 3	
COL EP	15 25 50.4
MAR 3	
EUR IP	15 38 27.2
MAR 3	
FUR IP	15 42 24.6
TUC EP	15 42 26.7
ALQ I(P)	15 42 48.0
COL E(P)	15 46 06.6
MAR 3	
BRW F(P)	16 02 17.0
MAR 3	
COL EP	16 19 32.5
EUR EP	16 23 07.0
E	23 15.5
MAR 3	
H-16 47 25.7	
53.1N 171.2E	
h ABOUT 23KM	
BRW IP C	16 52 32.2
IPCP	56 19.8
COL IP	16 52 37.4
SIT E(P)	16 53 40.5
HON EP	16 54 56.0
KIP EP	16 54 56.0
UKI E(P)	16 55 48.4
BUT EP	16 56 02.3
BOZ IP C	16 56 09.0
I	56 19.0
E(S)	17 03 07.0
EUR IP C	16 56 20.5
FSCP	17 01 32.0
SLC EP	16 56 31.7
FGU EP	16 56 41.5
BCN EP C	16 56 42.8
E	56 55.0
RCD IP C	16 56 51.0
E	56 55.0
TUC IP C	16 57 18.3
ALQ IP	16 57 23.3
MAR 3	
TUC E(P)	17 37 25.0
MAR 3	
H-17 38 26.3	
05.6S 103.3E	
h ABOUT 233KM	
BOZ EP'	17 57 16.2
E	57 37.0
FUR FP'	17 57 19.0
ALQ EP'	17 57 31.8
MAR 3	
COL IP	19 22 21.5
MAR 3	
H-19 29 16.1	
45.7N 150.9E	
h ABOUT 033KM	
BRW IP	19 36 12.3
COL IP	19 36 32.3
BOZ EP	19 39 45.1
TUC EP	19 40 44.3
ALQ IP	19 40 49.3
MAR 3	
COL EP	19 49 53.8
MAR 3	
H-19 55 16.7	
27.1S 177.7W	
h ABOUT 33KM	
BCN EP	20 07 57.0
TUC EP	20 08 01.0
ALQ IP	20 08 21.3
BOZ EP	20 08 32.8
COL EP	20 08 34.0
MAR 3	
TUC E(P)	20 46 11.4
MAR 3	
H-21 12 16.5	
27.2S 177.7W	
h ABOUT 33KM	
BCN EP	21 24 56.5
E	25 02.5
TUC IP C	21 25 00.9
E	25 06.2
ALQ IP	21 25 21.6
BOZ EP	21 25 32.6
I	25 38.0
MAR 3	
TUC E(P)	21 41 23.5
MAR 3	
COL E(P)	21 59 19.7
BRW F	22 00 21.5
MAR 3	
TUC E(P)	22 05 36.3
MAR 3	
H-22 04 27.9	
05.4S 151.8E	
h ABOUT 55KM	
COL IP	22 16 46.4
MAR 3	
H-22 09 31.5	
05.3S 152.1E	
h ABOUT 56KM	

Date and Station	Phase (GCT)
	h m s
COL IP	22 21 49.8
BRW EP	22 21 55.0
MAR 3	
FGU E(P)	22 17 35.5
EL	17 54.3
MAR 3	
BRW IP	22 52 45.3
COL EP	22 52 49.0
MAR 3	
BCN E(P)	22 53 45.5
E	54 21.0
MAR 3	
FGU EP	22 59 25.5
ES	59 47.7
MAR 3	
BCN IP	23 13 34.8
IL	13 47.2
MAR 3	
BRW E(P)	23 32 38.1
MAR 3	
COL IP	23 36 20.0
BRW EP	23 36 44.0
MAR 4	
COL IP	00 14 08.5
MAR 4	
ALQ E(P)	00 16 27.2
MAR 4	
BRW EP	00 49 30.6
COL EP	00 50 17.1
MAR 4	
FGU EP	00 52 53.5
MAR 4	
ALQ EP	00 56 12.2
MAR 4	
COL EP	01 16 18.5
MAR 4	
BRW IP	01 21 20.2
COL IP	01 21 46.0
MAR 4	
BRW EP	01 25 56.6
MAR 4	
BHP EP	01 37 43.5
IS	38 21.0
MAR 4	
H-01 27 32.1	
12.4N 141.5E	
h ABOUT 120KM	
GUA IP	01 28 27.0
IS	29 05.0
COL EP	01 38 36.3

Date and Station	Phase (GCT)
	h m s
MAR 4	
BRW EP	01 42 33.5
COL E(P)	01 42 42.0
MAR 4	
H-01 42 48.8	
51.4N 176.7E	
h ABOUT 48KM	
COL EP	01 47 47.3
E	48 13.0
BRW EP	01 47 53.7
BOZ EP	01 51 09.6
BCN IP D	01 51 42.3
I	51 53.0
ALQ EP	01 52 23.0
MAR 4	
H-01 48 54.1	
5.4S 147.0E	
h ABOUT 191KM	
GUA IP	01 53 02.0
IS	56 30.0
KIP IP	01 58 45.7
IPP	59 33.1
BRW IP	02 01 09.0
E	02 00.7
COL IP	02 01 06.0
E	01 52.0
BCN EP	02 02 20.2
BOZ IP D	02 02 28.0
E	02 36.3
TUC E(P)	02 02 35.0
FGU EP	02 02 37.5
MAR 4	
H-02 01 27.1	
51.5N 176.3E	
h ABOUT 25KM	
COL EP	02 06 28.0
BRW IP	02 06 34.0
BOZ EP	02 09 49.5
BCN EP	02 10 23.5
TUC EP	02 11 00.1
ALQ EP	02 11 06.8
MAR 4	
ALQ EP	02 06 22.4
TUC E(P)	02 06 52.0
MAR 4	
H-02 23 11.3	
52.4N 160.5E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
BRW EP	02 28 47.5
COL E(P)	02 29 09.5
BOZ EP	02 32 37.5
MAR 4	
COL EP	02 44 16.0
MAR 4	
H-02 44 51.4	
15.9N 093.5W	
h ABOUT 33KM	
ALQ EP	02 49 47.4
TUC E(P)	02 49 52.8
E	50 25.0
BOZ EP	02 51 26.5
MAR 4	
COL EP	03 47 07.3
MAR 4	
H-03 53 15.0	
20.9S 174.8W	
h ABOUT 52KM	
BCN EP	04 05 22.0
TUC EP	04 05 26.4
E	05 41.5
SLC EP	04 05 45.6
ALQ IP	04 05 49.4
BOZ EP	04 05 58.6
COL IP	04 06 02.0
MAR 4	
TUC E(P)	03 58 07.8
MAR 4	
COL EP	04 01 48.0
MAR 4	
TUC EP	04 20 22.8
ALQ I(P)	04 20 43.6
MAR 4	
COL EP	04 45 56.0
MAR 4	
TUC E(P)	05 10 39.8
MAR 4	
BRW E(P)	05 11 19.0
MAR 4	
TUC E(P)	05 36 59.5
MAR 4	
H-05 58 43.2	
14.7S 173.5W	
h ABOUT 33KM	
TUC E(P)	06 10 29.7
ALQ IP	06 10 55.0

Date and Station	Phase (GCT)
	h m s
COL IP	06 10 59.5
MAR 4	
TUC E(P)	06 16 18.0
MAR 4	
H-06 25 23.2	
51.0N 173.6E	
h ABOUT 33KM	
COL IP	06 30 37.9
BRW EP	06 30 40.0
MAR 4	
H-06 30 16.2	
52.0N 175.0E	
h ABOUT 40KM	
COL IP	06 35 18.6
BRW IP C	06 35 20.5
BOZ IP	06 38 44.5
SLC EP	06 39 05.9
RCD IP	06 39 27.5
TUC EP	06 39 52.1
FPCP	40 51.3
ALQ IP	06 39 58.0
CSC EP	06 41 35.5
MAR 4	
COL IP	06 43 28.0
BRW IP	06 43 39.3
MAR 4	
H-07 22 40.4	
05.4S 151.7E	
h ABOUT 62KM	
GUA E(P)	07 27 10.0
COL EP	07 34 58.0
BOZ EP	07 36 15.0
MAR 4	
COL IP	07 45 50.5
MAR 4	
COL EP	07 55 28.8
MAR 4	
BOZ E(P)	08 11 42.0
MAR 4	
BCN E(P)	08 14 49.0
MAR 4	
H-08 24 19.1	
27.3S 177.6W	
h ABOUT 33KM	
BCN EP	08 37 01.5
E	37 06.1
TUC E(P)	08 37 02.0

Date and Station	Phase (GCT)
	h m s
ALQ IP	08 37 22.5
BOZ EP	08 37 36.5
MAR 4	
COL EP	08 37 21.0
MAR 4	
TUC F(P)	08 40 09.8
ALQ F(P)	08 40 31.0
MAR 4	
COL EP	08 43 27.1
MAR 4	
TUC E(P)	09 08 12.3
ALQ I(P)	09 08 32.8
MAR 4	
BRW EP	09 59 23.0
COL EP	09 59 25.5
MAR 4	
COL EP	10 38 56.0
MAR 4	
BOZ E(P)	11 43 04.0
MAR 4	
COL IP	13 14 08.2
MAR 4	
COL EP	13 58 31.0
MAR 4	
TUC E(P)	13 59 28.8
MAR 4	
COL E(P)	14 12 32.9
MAR 4	
GUA E(P)	14 40 02.0
MAR 4	
BCN IP C	14 40 13.0
IS	40 14.8
MAR 4	
COL EP	14 49 48.0
BOZ EP	14 51 56.0
MAR 4	
COL EP	15 57 06.0
MAR 4	
BRW E(P)	16 24 03.5
MAR 4	
COL EP	18 45 25.5
BRW EP	18 45 27.5
MAR 4	
COL EP	19 16 16.0
MAR 4	
COL IP	20 47 43.0
MAR 4	
COL EP	21 14 32.0

Date and Station	Phase (GCT)
	h m s
MAR 4	
BRW E(P)	21 24 13.1
KIP EP	21 25 28.4
MAR 4	
EUR EP	22 24 32.5
MAR 4	
EUR IP	22 34 23.1
MAR 4	
BCN EP	22 56 10.5
EL	56 44.5
MAR 4	
H-23 08 03.3	
27.3S 177.4W	
h ABOUT 33KM	
TUC EP	23 20 46.2
MAR 4	
BRW E(P)	23 13 50.5
MAR 4	
EUR EP	23 31 16.4
MAR 4	
H-23 59 21.4	
52.1N 175.0E	
h ABOUT 33KM	
COL IP	24 04 24.1
BRW IP	24 04 26.0
MAR 5	
BRW EP	00 21 32.1
MAR 5	
BRW EP	01 05 23.0
MAR 5	
H-01 59 28.5	
51.2N 173.7E	
h ABOUT 33KM	
COL EP	02 04 41.0
EUR EP	02 08 13.3
EpP	08 22.0
MAR 5	
TUC E(P)	02 14 11.5
MAR 5	
EUR EP	03 59 21.6
MAR 5	
H-04 12 58.4	
51.2N 174.5E	
h ABOUT 33KM	
COL EP	04 18 09.0
BRW EP	04 18 10.0
EUR EP	04 21 40.7
MAR 5	
H-04 30 30.7	
50.9N 178.6E	
h ABOUT 30KM	

Date and Station	Phase (GCT)
	h m s
COL EP	04 35 27.0
BRW I(P)	04 35 32.0
EUR IP	04 38 54.7
MAR 5	
COL EP	05 06 36.3
MAR 5	
COL EP	05 09 29.5
MAR 5	
BRW EP	06 00 24.0
MAR 5	
H-06 15 01.1	
51.2N 179.3E	
h ABOUT 25KM	
COL IP	06 19 53.0
BRW IP	06 20 05.3
EL	27 30.0
BOZ IP C	06 23 13.0
IpP	23 28.0
EUR IP	06 23 20.8
IpP	23 28.3
IPCP	25 00.0
EPP	25 11.0
SLC IP	06 23 35.1
BCN EP	06 23 43.8
EpP	23 51.2
E	25 24.2
FGU EP	06 23 45.5
GCA EP	06 23 55.0
TUC EP	06 24 20.1
EpP	24 28.0
SJG EP	06 28 03.5
EsP	28 15.8
MAR 5	
H-06 25 56.2	
49.9N 177.4E	
h ABOUT 15KM	
COL EP	06 31 07.0
BRW IP	06 31 13.8
EUR I(P)	06 34 29.7
BOZ EP	06 34 22.0
RCD EP	06 35 07.0
E	35 18.0
TUC E(P)	06 35 27.3
MAR 5	
COL EP	06 27 38.0
MAR 5	
H-06 33 16.1	
51.1N 179.0E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
COL EP	06 38 09.5
BRW EP	06 38 20.2
EUR EP	06 41 36.6
MAR 5	
BOZ EP	06 34 02.9
MAR 5	
KIP E(P)	06 57 40.0
MAR 5	
BOZ E(P)	07 27 17.0
MAR 5	
BRW E(P)	07 33 08.0
MAR 5	
BOZ EP	07 27 54.0
MAR 5	
TUC E(P)	07 49 30.4
MAR 5	
BHP EP	07 53 03.0
IS	53 29.0
MAR 5	
EUR EP	08 27 38.2
MAR 5	
H-10 03 34.2	
05.1S 134.4E	
h ABOUT 33KM	
GUA I(P)	10 08 21.0
E(S)	12 07.0
COL IP	10 16 30.3
SJG EP'	10 23 29.0
IP'	23 56.4
MAR 5	
BOZ E(P)	10 15 05.0
MAR 5	
BOZ EP	10 33 17.5
MAR 5	
H-11 04 20.2	
26.3S 178.4W	
h ABOUT 276KM	
TUC EP	11 16 36.0
E	16 40.6
MAR 5	
H-11 28 43.6	
50.3N 176.9E	
h ABOUT 33KM	
COL EP	11 33 51.0
BOZ EP	11 37 08.0
E	37 17.5
EUR IP	11 37 15.8
BCN EP	11 37 38.5
E	37 57.0
RCD EP	11 37 54.0

Date and Station	Phase (GCT)
	h m s
TUC EP	11 38 14.0
MAR 5	
COL EP	11 44 10.0
BOZ E(P)	11 47 32.0
EUR EP	11 47 42.9
I	47 53.5
MAR 5	
H-11 50 40.0	
52.0N 170.2E	
h ABOUT 33KM	
COL IP	11 56 01.1
BOZ FP	11 59 28.0
EUR EP	11 59 39.7
MAR 5	
BOZ E(P)	12 33 21.0
MAR 5	
EUR EP	12 55 27.7
MAR 5	
H-13 27 13.4	
50.9N 178.5E	
h ABOUT 33KM	
COL EP	13 32 10.0
BOZ EP	13 35 28.0
EUR EP	13 35 36.6
MAR 5	
BOZ E(P)	13 34 03.0
MAR 5	
H-13 42 44.1	
52.3N 174.9E	
h ABOUT 35KM	
COL IP	13 47 45.1
BRW IP C	13 47 46.8
KIP IP	13 49 49.4
BOZ EP D	13 51 11.3
EUR IP C	13 51 22.0
SLC E(P)	13 51 33.8
BCN EP	13 51 44.6
E	52 13.6
E	52 53.5
RCD EP	13 51 55.0
TUC EP	13 52 20.0
E	52 30.6
SJG EP	13 55 53.4
MAR 5	
H-14 01 47.6	
50.3N 177.8E	
h ABOUT 15KM	

Date and Station	Phase (GCT)
	h m s
COL EP	14 06 53.0
BOZ FP	14 10 11.0
BCN EP	14 10 41.0
TUC EP	14 11 16.4
MAR 5	
KIP EP	14 28 20.4
I	29 48.5
MAR 5	
H-14 32 19.2	
27.0S 063.3W	
h ABOUT 573KM	
BHP I(P)	14 39 03.0
SJG IP D	14 39 42.5
EpP	41 27.5
IPP	41 39.2
EsPP	44 13.0
IS	45 35.4
ISCS	48 38.4
EsS	49 13.2
TUC IP D	14 43 00.5
E(S)	51 50.4
GCA IP	14 43 22.4
BCN IP D	14 43 27.7
IPCP	43 35.5
EpP	45 31.0
ESKS	52 50.0
FGU IP	14 43 31.0
SLC IP	14 43 36.2
ESKS	53 04.4
EUR IP D	14 43 43.6
IpP	45 44.8
ISKS	53 14.9
IPKKP	15 02 05.5
EsPKKP	05 11.0
EP'P'	10 12.0
ISKPP'	12 42.0
BOZ IP C	14 43 53.0
IP'P'	15 10 09.5
BUT IP	14 43 57.5
COL IP'	14 49 48.9
BRW IP'	14 49 58.3
IPKKP	15 00 35.5
GUA IP'	14 51 07.0
MAR 5	
H-16 21 50.8	
35.5N 135.8E	
h ABOUT 33KM	
BOZ E(P)	16 33 53.0
MAR 5	
BOZ IP	16 28 44.9
COL E(P)	16 29 31.0

Date and Station	Phase (GCT)
	h m s
MAR 5	
H-16 31 41.8	
51.0N 177.2E	
h ABOUT 40KM	
COL EP	16 36 42.0
BOZ EP	16 40 02.5
MAR 5	
H-16 33 52.7	
51.5N 176.6E	
h ABOUT 35KM	
COL FP	16 38 52.0
BOZ EP	16 42 14.2
EUR IP	16 42 24.4
MAR 5	
H-17 08 51.8	
29.1S 177.3W	
h ABOUT 21KM	
TUC E(P)	17 21 42.0
BOZ EP	17 22 15.0
MAR 5	
H-17 59 13.5	
52.3N 174.2E	
h ABOUT 35KM	
BRW IP C	18 04 17.1
EPCP	08 05.2
COL IP	18 04 17.5
BUT EP	18 07 38.0
EPCP	09 10.5
BOZ IP C	18 07 43.5
I	07 54.0
EUR IP	18 07 54.1
SLC EP	18 08 07.1
FGU FP	18 08 15.5
BCN EP	18 08 16.8
E	08 26.5
F	08 37.0
IPCP	09 31.6
E	09 41.8
RCD IP C	18 08 28.0
E	08 38.0
TUC EP	18 08 52.7
E	09 03.7
ALQ IP	18 08 58.0
CSC EP	18 10 36.0
E	10 46.0
SJG EP	18 12 24.0
EpP	12 35.0
MAR 5	
COL EP	18 03 10.0

Date and Station	Phase (GCT)
	h m s
MAR 5	
H-18 13 42.3	
20.0S 177.6W	
h ABOUT 553KM	
TUC EP	18 25 09.0
MAR 5	
ALQ E(P)	19 18 31.5
MAR 5	
H-19 36 42.7	
27.5S 177.0W	
h ABOUT 33KM	
TUC E(P)	19 49 22.0
E	49 27.0
BCN E	19 49 32.2
F	49 35.5
ALQ E(P)	19 49 47.3
COL EP	19 50 02.5
MAR 5	
BCN IP C	19 42 40.5
IS	42 43.0
MAR 5	
SJG FP	20 29 44.0
MAR 5	
H-21 00 14.8	
27.2S 177.7W	
h ABOUT 33KM	
TUC E(P)	21 12 58.6
ALQ E(P)	21 13 19.5
BOZ E(P)	21 13 31.0
MAR 5	
H-21 25 53.1	
21.0S 068.4W	
h ABOUT 83KM	
SJG EP	21 33 11.5
IsP	33 40.0
ALQ E(P)	21 36 34.8
TUC E(P)	21 36 36.9
EsP	37 07.0
BCN EP	21 37 09.4
EsP	37 39.5
EUR IP	21 37 27.8
IsP	37 56.3
BOZ EP	21 37 39.0
EsP	38 09.9
MAR 5	
H-21 30 53.5	
50.4N 178.0E	
h ABOUT 33KM	
COL EP	21 35 55.0
BRW FP	21 36 05.0

Date and Station	Phase (GCT)
	h m s
BOZ IP	21 39 12.0
EUR EP	21 39 19.8
MAR 5	
H-21 41 34.7	
12.0S 166.3E	
h ABOUT 58KM	
COL EP	21 53 58.0
BCN E	21 54 32.5
E	54 46.7
BOZ E(P)	21 54 45.0
MAR 5	
BOZ E(P)	22 09 35.0
MAR 5	
COL EP	22 12 47.0
BRW EP	22 12 58.0
MAR 5	
BOZ EP	22 16 03.8
MAR 5	
H-23 17 39.4	
51.2N 173.9E	
h ABOUT 33KM	
COL IP	23 22 51.5
BRW IP	23 22 52.6
BOZ IP	23 26 14.9
EPCP	27 44.0
EUR IP	23 26 24.8
MAR 5	
H-23 29 23.2	
53.0N 171.1E	
h ABOUT 45KM	
BRW IP	23 34 25.2
COL IP	23 34 32.7
BUT E(P)	23 37 56.0
BOZ IP C	23 38 03.5
I	38 25.2
EUR IP	23 38 15.6
BCN EP	23 38 35.0
FGU FP	23 38 37.0
RCD IP D	23 38 46.0
E	38 55.0
TUC EP	23 39 13.7
ALQ IP	23 39 19.0
MAR 6	
H-00 00 38.9	
50.8N 171.6E	
h ABOUT 33KM	
COL EP	00 06 02.0

Date and Station	Phase (GCT)
	h m s
BRW EP	00 06 02.3
EUR EP	00 09 36.8
MAR 6	
BCN IP	00 03 10.5
IS	03 15.4
MAR 6	
BOZ EP	01 23 15.5
MAR 6	
GUA FP	01 33 22.4
ES	33 35.2
MAR 6	
TUC E(P)	03 18 02.0
MAR 6	
BCN EP	03 18 18.5
MAR 6	
H-03 32 29.5	
56.8N 154.4W	
h ABOUT 30KM	
COL EP	03 34 36.0
BRW EP	03 35 56.0
MAR 6	
TUC E(P)	04 01 20.1
BCN E(P)	04 01 51.5
EL	02 37.5
MAR 6	
BRW E(P)	04 07 11.0
MAR 6	
H-04 06 48.5	
26.7S 177.3W	
h ABOUT 24KM	
BCN EP	04 19 28.5
TUC EP	04 19 31.1
E	19 38.7
EUR EP	04 19 35.8
ALQ IP	04 19 51.9
BOZ EP	04 20 04.9
E	20 10.9
COL EP	04 20 05.0
MAR 6	
H-04 43 07.1	
1.2S 078.4W	
h ABOUT 13KM	
SJG EP	04 48 08.5
ALQ IP	04 51 21.3
TUC E(P)	04 51 27.3
BOZ EP	04 52 41.0
MAR 6	
COL EP	05 07 00.0

Date and Station	Phase (GCT)
	h m s
MAR 6	
H-05 09 07.3	
03.0S 138.8E	
h ABOUT 88KM	
BRW IP	05 21 36.0
COL EP	05 21 38.0
SJG EP'	05 28 54.5
MAR 6	
BRW FP	05 19 44.0
COL EP	05 20 05.0
MAR 6	
BOZ E(P)	05 44 54.0
EUR EP	05 45 04.5
E	45 16.0
MAR 6	
H-05 52 58.9	
52.3N 172.4E	
h ABOUT 44KM	
BRW IP	05 58 05.3
COL IP	05 58 08.2
BOZ EP	06 01 36.0
EpP	01 47.5
E	01 53.5
EUR IP	06 01 47.2
FGU E(P)	06 02 08.6
BCN EP	06 02 09.5
EpP	02 21.0
RCD EP	06 02 19.5
F	02 25.0
TUC EP	06 02 45.4
ALQ EP	06 02 50.3
MAR 6	
BCN E(P)	06 14 48.5
EL	15 50.0
MAR 6	
BRW FP	06 18 43.5
COL E(P)	06 19 09.5
E	19 16.7
MAR 6	
BRW EP	06 30 04.5
MAR 6	
BOZ EP	07 29 01.5
I	29 31.0
MAR 6	
BHP IP	07 59 24.0
IS	59 44.5
MAR 6	
H-08 19 30.5	
52.4N 174.2E	
h ABOUT 25KM	

Date and Station	Phase (GCT)
	h m s
BRW IP C	08 24 35.2
E	24 42.9
E	24 50.9
COL IP	08 24 36.0
ES	28 48.0
BOZ EP	08 28 03.0
ESCP	33 23.2
EUR IP	08 28 12.7
ESCP	33 29.4
BCN EP	08 28 33.4
FGU E(P)	08 28 35.0
RCD FP	08 28 46.0
TUC EP	08 29 11.8
ALQ E(P)	08 29 17.7
MAR 6	
BCN FP	08 29 50.0
MAR 6	
COL IP	08 39 23.9
BRW EP	08 40 53.8
MAR 6	
KIP FP	08 50 18.3
MAR 6	
KIP EP	09 05 18.5
MAR 6	
H-09 49 06.8	
27.0S 177.6W	
h ABOUT 33KM	
TUC EP	10 01 49.0
ALQ E(P)	10 02 10.0
MAR 6	
TUC E(P)	09 58 03.0
MAR 6	
H-10 21 17.9	
17.5S 178.7W	
h ABOUT 573KM	
EUR EP	10 32 37.3
TUC FP	10 32 39.0
COL IP	10 32 56.2
BOZ EP	10 33 05.9
MAR 6	
H-11 10 53.1	
18.4S 132.9W	
h ABOUT 35KM	
TUC FP	11 20 21.8
FpP	20 27.6
BCN EP	11 20 37.0
FpP	20 43.5

Date and Station	Phase (GCT)
	h m s
ALQ IP	11 20 50.3
IpP	20 55.7
EUR IP	11 20 57.6
FGU EP	11 21 18.7
BOZ IP	11 21 41.2
IpP	21 47.1
BUT IP	11 21 43.3
RCD EP	11 21 49.0
SJG EP	11 22 31.0
E	22 44.5
E	23 00.0
SIT E(P)	11 22 33.8
COL IP	11 23 19.7
BRW IP	11 23 55.7
MAR 6	
BOZ EP	13 23 58.0
E	24 17.0
MAR 6	
KIP IP	13 33 25.2
MAR 6	
H-13 41 17.0	
52.1N 175.4E	
h ABOUT 35KM	
COL IP	13 46 17.5
ES	50 28.0
BRW IP	13 46 20.3
BOZ EP	13 49 41.6
EpP	49 51.0
EUR IP	13 49 52.2
BCN EP	13 50 18.3
RCD EP	13 50 26.0
FpP	50 37.0
TUC EP	13 50 51.0
ALQ E(P)	13 50 57.9
SJG EP	13 54 25.0
EpP	54 35.8
MAR 6	
UKI EP	13 48 49.0
MAR 6	
KIP EP	14 26 28.2
MAR 6	
KIP E(P)	14 26 39.1
HON E(P)	14 26 43.5
MAR 6	
H-14 35 42.3	
50.4N 177.8E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
COL EP	14 40 44.0
BRW IP	14 40 56.0
BOZ IP	14 44 03.0
EUR IP D	14 44 10.4
BCN EP	14 44 32.6
EpP	44 42.0
E	45 09.4
RCD EP	14 44 47.5
TUC EP	14 45 08.8
ALQ I(P)	14 45 16.2
MAR 6	
BOZ EP	15 02 13.9
MAR 6	
GUA EP	15 12 18.4
E(S)	12 27.0
MAR 6	
BOZ EP	15 04 05.0
MAR 6	
BOZ EP	15 34 34.0
MAR 6	
BOZ EP	15 49 17.9
MAR 6	
H-16 01 52.8	
30.3S 177.5W	
h ABOUT 63KM	
TUC E(P)	16 14 41.0
EUR E(P)	16 14 47.0
MAR 6	
BOZ EP	16 17 35.0
E	17 46.0
EUR EP	16 17 45.0
COL EP	16 18 20.0
MAR 6	
BOZ EP	16 21 38.0
MAR 6	
TUC EP	16 37 00.7
ES	37 21.0
BCN EP	16 38 16.5
MAR 6	
H-17 10 19.8	
51.6N 174.3E	
h ABOUT 35KM	
COL EP	17 15 27.0
BRW E(P)	17 15 35.7
BOZ EP	17 18 51.0
E	18 56.9
EUR EP	17 19 01.4
EpP	19 11.9

Date and Station	Phase (GCT)
	h m s
BCN EP	17 19 24.3
EpP	19 34.5
TUC E(P)	17 20 00.0
EpP	20 10.2
ALQ E(P)	17 20 04.1
MAR 6	
BOZ E(P)	17 32 04.0
E	33 30.0
MAR 6	
BOZ EP	18 12 27.0
MAR 6	
GCA E(P)	18 19 33.7
MAR 6	
H-18 25 34.8	
51.3N 176.3E	
h ABOUT 34KM	
COL EP	18 30 37.0
BRW EP	18 30 43.1
BOZ EP	18 33 58.0
EpP	34 10.0
EUR IP	18 34 08.2
IpP	34 20.2
BCN EP	18 34 31.0
EpP	34 43.5
ALQ E(P)	18 35 10.0
MAR 6	
BRW IP	19 10 07.0
COL IP	19 10 11.5
BOZ EP	19 13 41.0
MAR 6	
BOZ EP	19 10 11.9
MAR 6	
BOZ EP	19 23 11.0
MAR 6	
EUR EP	19 37 14.7
MAR 6	
SJG EP	19 56 34.5
EL	56 55.5
MAR 6	
H-20 23 49.5	
20.1N 121.3E	
h ABOUT 8KM	
BRW IP	20 34 54.4
COL IP	20 35 17.2
KIP IP	20 35 29.7
BOZ E(P)	20 37 33.0
EUR IP	20 37 39.7
E	41 32.8

Date and Station	Phase (GCT)
	h m s
ALQ EP'	20 42 20.3
MAR 6	
COL IP	20 26 19.7
MAR 6	
COL IP	20 41 24.2
MAR 6	
EUR EP	20 54 21.3
MAR 6	
TUC E(P)	21 24 18.0
BCN IP	21 24 23.2
EL	25 48.2
MAR 6	
KIP EP	21 27 46.5
GUA IP	21 28 06.0
E(S)	33 36.0
MAR 6	
BCN EP	22 47 45.5
IL	48 21.5
MAR 7	
H-00 01 17.2	
50.8N 175.1E	
h ABOUT 33KM	
COL E(P)	00 06 27.9
MAR 7	
COL EP	01 17 16.1
MAR 7	
H-01 37 55.6	
46.1N 137.1E	
h ABOUT 328KM	
BRW IP	01 44 57.5
COL IP	01 45 28.0
BOZ IP	01 48 36.5
EUR IP	01 48 50.0
TUC E(P)	01 49 34.0
ALQ I(P)	01 49 36.5
MAR 7	
TUC E(P)	01 38 20.7
MAR 7	
H-01 43 11.4	
30.3S 177.9W	
h ABOUT 60KM	
GUA I(P)	01 52 41.0
E(S)	02 00 44.0
BCN EP C	01 56 00.5
IpP	56 12.5
IsP	56 17.0
TUC IP C	01 56 01.7
EpP	56 14.0
EPKKP	02 13 36.8

Date and Station	Phase (GCT)
	h m s
EUR IP C	01 56 06.5
IsP	56 18.9
EPKKP	02 13 36.5
GCA EP	01 56 11.4
ALQ EP	01 56 21.5
E	56 31.5
EsP	56 38.0
BUT E(P)	01 56 34.3
E	56 50.3
BOZ EP	01 56 35.0
EsP	56 52.0
E	02 01 35.0
EPKKP	13 22.0
COL IP	01 56 39.1
SJG EP'	02 01 49.5
MAR 7	
H-02 51 18.5	
51.6N 174.0E	
h ABOUT 25KM	
BRW E(P)	02 56 23.7
COL IP	02 56 29.0
BOZ IP	02 59 53.0
EUR IP	03 00 03.2
TUC EP	03 01 01.8
MAR 7	
ALQ E(P)	03 05 50.7
MAR 7	
COL EP	03 27 51.5
MAR 7	
GCA E(P)	03 46 18.3
EL	46 31.5
MAR 7	
BRW E(P)	04 21 42.2
MAR 7	
BOZ E(P)	04 40 14.0
MAR 7	
H-04 44 30.4	
19.5S 174.6W	
h ABOUT 187KM	
COL IP	04 56 54.2
MAR 7	
TUC E(P)	04 59 50.0
MAR 7	
TUC EP	05 03 05.0
MAR 7	
H-05 16 54.1	
50.8N 178.1E	
h ABOUT 33KM	
BRW EP	05 22 02.0
BOZ EP	05 25 11.0

Date and Station	Phase (GCT)
	h m s
MAR 7	
BRW EP	05 56 59.0
EUR E(P)	05 59 50.0
E	59 56.0
MAR 7	
H-06 33 17.7	
03.3N 079.0W	
h ABOUT 33KM	
SJG EP	06 37 44.2
ALQ EIP	06 40 56.0
TUC E(P)	06 41 03.8
GCA E(P)	06 41 32.6
FGU IP	06 41 43.0
BCN EP	06 41 45.5
EUR EP	06 42 05.0
BOZ EP	06 42 17.3
E	42 29.0
F	42 34.0
COL EP	06 45 14.0
BRW EP	06 45 40.0
MAR 7	
TUC E(P)	06 34 38.5
MAR 7	
H-07 32 38.1	
12.1N 046.3E	
h ABOUT 38KM	
EUR EP'	07 51 35.0
E	51 46.0
BCN EP'	07 51 40.0
E	51 52.6
TUC EP'	07 51 50.3
MAR 7	
H-07 42 31.2	
12.1N 046.3E	
h ABOUT 33KM	
BOZ EP'	08 01 20.0
ALQ EP'	08 01 32.8
EUR EP'	08 01 33.7
BCN EP'	08 01 40.0
E	01 45.2
MAR 7	
BOZ EP	07 50 57.5
MAR 7	
COL EP	08 00 34.0
MAR 7	
SJG EP	08 35 47.0
EL	36 37.7

Date and Station	Phase (GCT)
	h m s
MAR 7	
BOZ EP	09 51 06.0
EUR EP	09 51 15.9
E	51 27.5
MAR 7	
TUC E(P)	10 09 03.2
BCN EP	10 09 38.2
EL	11 20.6
MAR 7	
SJG EP	10 22 07.3
IS	22 32.0
MAR 7	
TUC EP	10 32 39.7
E(S)	33 49.5
MAR 7	
RCD EP	11 03 04.5
E	03 37.0
MAR 7	
H-11 04 39.3	
51.8N 176.4E	
h ABOUT 35KM	
SHY IP	11 05 08.7
ES	05 31.1
COL IP	11 09 37.7
BRW IP	11 09 43.0
BOZ EP	11 13 01.0
EUR IP C	11 13 11.0
I	13 24.5
BCN EP	11 13 34.0
FGU E(P)	11 13 35.0
RCD EP	11 13 43.0
TUC EP	11 14 09.3
ALQ IP	11 14 15.4
MAR 7	
BOZ E(P)	11 06 37.0
MAR 7	
BCN EP	11 13 54.0
TUC IP	11 14 29.8
MAR 7	
TUC E(P)	11 38 16.2
MAR 7	
COL IP	12 15 41.1
MAR 7	
COL IP	13 28 12.1
BRW EP	13 29 49.3
MAR 7	
BOZ EP	13 46 39.0
MAR 7	
COL EP	14 25 08.0

Date and Station	Phase (GCT)
	h m s
MAR 7	
SHY EP	15 00 38.3
E	00 54.4
COL EP	15 05 29.0
MAR 7	
COL EP	15 53 10.5
MAR 7	
H-16 08 55.5	
27.5S 177.6W	
h ABOUT 33KM	
BCN EP	16 21 37.5
E	21 43.0
TUC EP	16 21 40.3
EUR IP	16 21 43.1
ALQ IP	16 22 00.5
BOZ EP	16 22 12.0
COL EP	16 22 13.0
MAR 7	
H-16 58 03.0	
19.9S 168.8E	
h ABOUT 49KM	
BCN EP	17 11 03.5
E	11 18.5
MAR 7	
H-18 06 46.2	
50.7N 179.2E	
h ABOUT 33KM	
SHY EP	18 07 43.4
FS	08 25.0
COL EP	18 11 41.3
BRW E(P)	18 11 49.0
BOZ E(P)	18 14 52.0
EUR IP	18 15 06.8
MAR 7	
BRW EP	19 31 01.5
MAR 7	
H-19 41 10.2	
51.1N 179.5E	
h ABOUT 15KM	
COL IP	19 46 04.0
BRW IP	19 46 15.0
BOZ IP	19 49 22.5
EUR IP	19 49 31.7
BCN EP	19 49 54.5
MAR 7	
TUC E(P)	20 47 41.4
E(L)	48 28.3

Date and Station	Phase (GCT)
	h m s
BCN E(P)	20 47 45.0
E	48 29.5
FL	49 35.0
MAR 7	
BOZ EP	21 12 53.6
E(S)	16 15.0
MAR 7	
COL IP	21 59 57.4
BRW E(P)	22 01 36.0
BOZ E(P)	22 03 44.0
MAR 7	
H-22 32 40.9	
52.5N 175.9E	
h ABOUT 33KM	
COL EP	22 37 35.0
BOZ EP	22 41 05.0
EUR IP	22 41 14.3
MAR 7	
GCA IP	22 38 06.5
IS	38 20.8
MAR 7	
H-22 45 17.9	
41.1S 091.2W	
h ABOUT 33KM	
SJG E(P)	22 55 41.0
TUC E(P)	22 56 59.2
EUR IP	22 57 44.3
MAR 7	
TUC E(P)	23 27 39.2
MAR 8	
TUC E(P)	00 35 12.5
MAR 8	
KIP EP	01 34 11.9
MAR 8	
COL EP	01 54 26.0
MAR 8	
TUC E(P)	01 55 24.1
E(L)	57 51.0
MAR 8	
ALQ EP	01 57 03.0
E	59 11.8
BCN EP	01 57 17.0
I	58 18.0
I	58 42.6
IL	59 26.0
EUR EP	01 58 40.5
E	58 51.0
IL	02 01 15.2
MAR 8	
TUC E(P)	02 16 08.5

Date and Station	Phase (GCT)
	h m s
MAR 8	
TUC E(P)	02 25 03.0
MAR 8	
COL EP	02 58 54.0
MAR 8	
H-05 55 45.2	
50.8N 176.4E	
h ABOUT 25KM	
COL EP	06 00 52.0
BOZ EP	06 04 12.0
EUR EP	06 04 21.0
MAR 8	
TUC E(P)	06 37 01.8
MAR 8	
H-07 14 11.5	
05.3S 152.2E	
h ABOUT 51KM	
COL EP	07 26 30.0
EUR EP	07 27 32.5
MAR 8	
COL EP	07 54 46.0
MAR 8	
SJG EP	09 59 58.4
IS	10 00 29.7
MAR 8	
EUR EP	10 16 16.0
MAR 8	
COL EP	10 52 32.0
MAR 8	
COL I(P)	10 52 32.7
MAR 8	
EUR IP	11 47 06.0
E	47 27.6
MAR 8	
H-12 04 21.0	
62.5N 150.4W	
h ABOUT 104KM	
COL IP	12 05 03.1
BRW IP	12 06 30.0
EUR IP	12 10 30.8
RCD EP	12 10 45.5
ALQ IP	12 11 37.2
TUC E(P)	12 11 41.5
MAR 8	
H-12 10 13.7	
06.4N 083.4W	
h ABOUT 33KM	
BHP IP	12 11 22.0
ALQ IP	12 17 11.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	12 17 57.2
EUR EP	12 18 22.1
MAR 8	
H-12 23 14.1	
44.6S 075.1W	
h ABOUT 33KM	
TUC E(P)	12 35 37.4
E	35 42.8
ALQ EP	12 35 42.0
E	35 49.0
BCN EP	12 36 02.0
EUR IP	12 36 19.5
MAR 8	
H-12 25 25.3	
20.0N 121.3E	
h ABOUT 64KM	
BRW EP	12 36 24.0
COL EP	12 36 46.0
MAR 8	
H-12 45 22.3	
51.6N 173.5W	
h ABOUT 38KM	
BCN EP	12 53 28.0
E	53 37.5
RCD EP	12 53 44.0
TUC E(P)	12 54 06.3
MAR 8	
BCN E(P)	12 56 04.0
EL	56 57.5
MAR 8	
COL EP	12 59 39.0
MAR 8	
UKI EP	13 24 32.0
MAR 8	
BRW E(P)	13 34 30.0
MAR 8	
H-13 34 41.9	
50.2N 178.5E	
h ABOUT 33KM	
COL EP	13 39 44.0
BRW EP	13 39 55.2
MAR 8	
ALQ E(P)	13 54 14.0
MAR 8	
H-14 00 30.6	
52.0N 172.5E	
h ABOUT 45KM	
BRW EP	14 05 39.1
COL IP	14 05 41.5

Date and Station	Phase (GCT)
	h m s
EUR EP	14 09 19.0
MAR 8	
H-14 33 39.3	
52.1N 173.8W	
h ABOUT 35KM	
COL EP	14 37 56.0
BRW EP	14 38 24.2
EUR EP	14 41 22.6
E	41 33.0
BCN EP	14 41 49.0
MAR 8	
COL E(P)	14 48 54.6
MAR 8	
H-15 04 16.2	
17.7S 178.9W	
h ABOUT 589KM	
KIP EP	15 11 33.0
BCN EP	15 15 30.5
EUR IP	15 15 35.3
TUC IP C	15 15 36.9
GCA IP	15 15 45.2
COL IP	15 15 53.1
ALQ IP	15 15 56.6
BRW EP	15 16 14.8
MAR 8	
BRW EP	15 50 27.0
MAR 8	
H-15 54 02.9	
49.1N 177.3E	
h ABOUT 30KM	
BRW EP	15 59 27.5
MAR 8	
COL EP	15 58 58.0
EUR EP	16 01 26.3
MAR 8	
EUR EP	16 56 15.9
MAR 8	
TUC E(P)	18 38 37.9
MAR 8	
ALQ EP	18 59 58.6
MAR 8	
H-19 22 45.6	
22.3S 171.4E	
h ABOUT 125KM	
KIP IP	19 31 48.4
BCN EP	19 35 35.8
E	35 45.0
EpP	36 08.0

Date and Station	Phase (GCT)
	h m s
EUR EP	19 35 39.0
IpP	36 01.5
COL IP	19 35 41.0
TUC IP D	19 35 41.8
E	36 19.2
GCA IP	19 35 49.3
ALQ IP	19 36 01.5
E	36 06.5
SJG EP'	19 41 32.8
MAR 8	
BCN IP D	19 29 41.5
IL	29 54.0
MAR 8	
COL FP	19 52 55.2
MAR 8	
EUR EP	20 17 24.3
MAR 8	
CSC EP	20 24 26.0
MAR 8	
FGU IP	21 53 01.5
IS	53 20.9
MAR 8	
H-22 14 34.1	
59.6N 145.3W	
h ABOUT 33KM	
COL IP	22 15 54.0
BRW EP	22 17 34.0
MAR 8	
ALQ E(P)	22 43 14.0
GCA E(P)	22 43 17.2
E(S)	43 52.0
MAR 8	
H-22 50 56.3	
38.7N 118.7W	
h ABOUT 031KM	
FUR IP D	22 51 33.0
BCN IP	22 51 59.5
IL	53 04.5
TUC FP	22 53 07.4
MAR 8	
TUC EP	23 07 58.4
MAR 8	
H-23 11 31.7	
24.6S 067.1W	
h ABOUT 168KM	
SJG IP	23 19 07.8
F	19 47.5
IS	25 12.5
ALQ IP	23 22 26.5
I	23 11.0

Date and Station	Phase (GCT)
	h m s
TUC IP D	23 22 28.1
GCA IP	23 22 52.7
BCN IP D	23 22 58.0
RCD IP	23 23 01.0
E	23 20.5
FGU FP	23 23 02.3
BUT I(P)	23 23 30.9
COL EP	23 25 34.1
BRW EP'	23 29 49.7
MAR 8	
BRW EP	23 40 39.0
MAR 9	
H-00 47 25.5	
51.7N 173.5W	
h ABOUT 33KM	
COL EP	00 51 44.0
BOZ E(P)	00 55 02.0
FUR EP	00 55 08.5
TUC E(P)	00 56 09.2
MAR 9	
H-01 36 49.0	
17.1S 177.4W	
h ABOUT 429KM	
KIP IP	01 44 08.8
UKI E(P)	01 47 49.8
BCN IP C	01 48 11.1
I	48 17.5
EUR IP C	01 48 15.7
IpP	49 53.0
EPP	51 20.5
TUC EP	01 48 16.5
GCA IP	01 48 25.7
SLC IP	01 48 33.1
COL IP	01 48 36.5
ALQ IP	01 48 38.8
FGU IP	01 48 41.5
BOZ IP C	01 48 44.5
EpP	50 22.0
BUT I(P)	01 48 49.5
BRW EP	01 48 59.2
RCD IP C	01 49 07.0
F	49 13.0
SJG EP'	01 54 41.0

Date and Station	Phase (GCT)
	h m s
MAR 9	
COL IP	01 58 28.8
MAR 9	
TUC F(P)	02 17 52.0
MAR 9	
SHY I(P)	03 43 54.9
E	43 56.2
MAR 9	
H-04 53 32.2	
52.9N 034.6W	
h ABOUT 33KM	
BOZ E(P)	05 02 12.0
MAR 9	
COL EP	05 01 09.0
MAR 9	
BOZ EP	05 29 16.9
MAR 9	
SJG IP D	06 13 28.2
IS	14 43.8
TUC E(P)	06 19 31.8
E	20 56.2
BOZ E(P)	06 21 23.0
MAR 9	
TUC E(P)	06 39 54.8
E	41 21.5
MAR 9	
H-06 41 34.4	
39.9N 111.3W	
h ABOUT 33KM	
SLC EP	06 41 52.0
FGU IP	06 42 04.3
GCA E(P)	06 42 19.8
EUR EP	06 42 31.7
IL	43 24.5
MAR 9	
COL EP	09 38 12.0
MAR 9	
H-10 30 15.6	
27.0S 177.7W	
h ABOUT 103KM	
BCN EP	10 42 47.7
TUC EP	10 42 50.2
EUR EP	10 42 54.0
ALQ EP	10 43 11.3
BOZ E(P)	10 43 22.0
COL E(P)	10 43 23.7
MAR 9	
COL EP	10 50 15.0

Date and Station	Phase (GCT)
	h m s
MAR 9	
H-10 36 37.9	
27.7S 177.6W	
h ABOUT 102KM	
BCN EP	10 49 11.7
EpP	49 38.0
TUC EP	10 49 14.4
FpP	49 40.9
EUR EP	10 49 44.4
MAR 9	
H-11 01 50.4	
52.1N 172.1E	
h ABOUT 30KM	
SHY I(P)	11 02 13.9
COL IP	11 07 03.6
BRW IP	11 07 05.0
BOZ EP	11 10 30.0
EUR IP	11 10 42.3
TUC FP	11 11 40.7
ALQ F(P)	11 11 45.5
MAR 9	
H-12 04 07.2	
51.0N 174.7E	
h ABOUT 30KM	
SHY EP	12 04 35.5
ES	04 56.9
COL EP	12 09 18.0
BRW EP	12 09 19.2
FUR EP	12 12 49.7
MAR 9	
H-12 35 51.9	
50.2N 178.3E	
h ABOUT 30KM	
COL EP	12 40 55.0
BRW IP	12 41 05.7
BOZ FP	12 44 10.5
EUR EP	12 44 18.4
BCN EP	12 44 40.5
TUC FP	12 45 16.0
E	45 25.2
MAR 9	
H-12 55 42.1	
42.3N 142.1E	
h ABOUT 23KM	
BRW FP	13 03 29.0
COL IP	13 03 53.8
BOZ EP	13 06 57.0

Date and Station	Phase	(GCT)
		h m s
EUR	EP	13 07 07.8
	E	07 26.8
BCN	EP	13 07 25.5
	E	07 43.0
ALQ	EP	13 07 56.5
MAR 9		
ALQ	IP	13 06 25.5
	IS	06 42.4
MAR 9		
TUC	EP	13 14 49.6
	E	16 17.0
ALQ	EP	13 15 45.2
EUR	EP	13 16 40.5
BCN	EL	13 18 24.5
MAR 9		
SHY	I(P)	15 22 56.4
MAR 9		
BOZ	EP	15 46 35.0
MAR 9		
H-17 29 29.1		
11.7S 166.5E		
h ABOUT 125KM		
COL	IP	17 41 44.3
EUR	EP	17 42 06.3
	E*P	42 39.8
MAR 9		
COL	EP	18 00 02.1
MAR 9		
H-17 57 53.7		
39.4N 024.0E		
h ABOUT 18KM		
BRW	IP	18 09 05.0
WAS	EP	18 09 27.0
COL	EP	18 09 41.0
SJG	EP	18 09 58.0
CSC	E(P)	18 10 01.0
BOZ	P	18 10 37.2
FGU	EP	18 10 51.5
SLC	EP	18 10 58.4
EUR	IP	18 11 10.9
ALQ	IP	18 11 13.2
BCN	EP	18 11 23.0
	E	11 31.0
TUC	EP	18 11 28.0

Date and Station	Phase	(GCT)
		h m s
MAR 9		
H-18 37 31.5		
7.0N 082.2W		
h ABOUT 33KM		
BHP	IP	18 38 22.0
	IS	39 03.0
SJG	EP	18 41 56.0
TUC	E(P)	18 44 37.0
SLC	EP	18 45 27.6
EUR	IP	18 45 41.5
MAR 9		
H-18 37 54.4		
39.3N 024.0E		
h ABOUT 33KM		
COL	EP	18 49 41.5
EUR	EP	18 51 10.0
TUC	EP	18 51 27.4
MAR 9		
ALQ	I(P)	19 04 09.4
	IS	04 23.2
TUC	E(P)	19 04 45.9
	E	05 43.2
MAR 9		
H-19 41 34.8		
05.0S 145.3E		
h ABOUT 53KM		
COL	EP	19 54 04.0
MAR 9		
BCN	IP D	19 46 00.3
	IS	46 12.7
MAR 9		
H-19 46 58.2		
39.3N 023.9E		
h ABOUT 19KM		
BOZ	EP	19 59 42.0
MAR 9		
BOZ	E(P)	20 12 47.0
	E	13 07.5
MAR 9		
BOZ	E(P)	21 02 16.0
MAR 9		
COL	EP	21 19 17.0
MAR 9		
H-21 20 04.9		
39.2N 023.8E		
h ABOUT 13KM		
BOZ	EP	21 32 49.8
MAR 9		
H-21 45 15.8		
52.6N 172.2E		
h ABOUT 24KM		

Date and Station	Phase	(GCT)
		h m s
SHY	IP	21 45 36.6
BRW	IP	21 50 22.5
	E	50 33.8
COL	IP	21 50 26.1
BOZ	IP	21 53 54.9
EUR	IP	21 54 06.6
TUC	E(P)	21 55 05.0
MAR 9		
EUR	IP	22 18 08.0
	IL	18 43.5
MAR 9		
H-22 19 05.2		
39.2N 024.0E		
h ABOUT 5KM		
BOZ	EP	22 31 49.0
MAR 9		
COL	E(P)	22 34 31.0
MAR 9		
H-22 35 16.3		
39.2N 023.7E		
h ABOUT 31KM		
COL	EP	22 47 03.5
BOZ	EP	22 47 58.6
	I	48 08.0
MAR 9		
SHY	IP	22 55 13.8
	ES	55 30.7
MAR 9		
TUC	EP	22 54 18.3
BCN	EP	22 55 30.0
	IL	56 04.0
MAR 10		
H-00 10 40.1		
15.9N 094.5W		
h ABOUT 33KM		
ALQ	E(P)	00 15 30.2
TUC	EP	00 15 33.0
MAR 10		
H-00 14 57.0		
46.2N 152.9E		
h ABOUT 33KM		
COL	EP	00 22 00.0
MAR 10		
H-00 27 17.9		
18.0S 178.4W		
h ABOUT 589KM		
EUR	EP	00 38 37.2
TUC	EP	00 38 38.3
MAR 10		
COL	IP	00 53 55.6

Date and Station	Phase	(GCT)
		h m s
MAR 10		
KIP	EP	01 34 11.0
MAR 10		
H-01 36 07.3		
39.2N 023.9E		
h ABOUT 33KM		
BRW	EP	01 47 17.6
COL	EP	01 47 53.0
RCD	EP	01 48 38.0
	F	48 42.0
BOZ	EP	01 48 49.8
	I	48 54.0
MAR 10		
SHY	EP	01 56 00.4
	ES	56 21.0
MAR 10		
H-02 14 21.6		
04.1S 143.5E		
h ABOUT 122KM		
COL	IP	02 26 43.0
BRW	EP	02 26 43.7
EUR	EP	02 27 58.5
SJG	EP'	02 33 51.0
	I*P'	34 28.5
MAR 10		
H-02 52 07.8		
40.6N 125.6W		
h ABOUT 33KM		
EUR	IP	02 53 56.3
MAR 10		
H-04 03 32.0		
79.7N 021.3E		
h ABOUT 33KM		
BOZ	E(P)	04 12 41.0
MAR 10		
BRW	EP	04 10 12.0
MAR 10		
H-04 25 38.8		
16.8N 097.6W		
h ABOUT 46KM		
TUC	EP	04 30 04.5
ALQ	EP	04 30 08.5
FGU	E(P)	04 31 11.8
EUR	EP	04 31 25.0
MAR 10		
COL	EP	04 47 20.0
MAR 10		
SHY	EP	05 39 58.4
	ES	40 09.0

Date and Station	Phase (GCT)
	h m s
MAR 10	
BHP IP	05 39 59.0
IS	40 54.0
MAR 10	
H-05 44 47.8	
32.8N 049.2E	
h ABOUT 33KM	
BRW IP	05 56 25.2
MAR 10	
COL IP	05 57 04.9
MAR 10	
BOZ EP	05 45 41.0
MAR 10	
SHY IP	08 14 09.1
ES	14 24.0
MAR 10	
H-08 30 11.1	
51.9N 176.3E	
h ABOUT 39KM	
SHY IP	08 30 38.6
COL EP	08 35 10.0
BOZ EP	08 38 35.0
FUR IP	08 38 43.0
IPP	38 53.5
BCN EP	08 39 05.0
EPP	39 16.5
TUC E(P)	08 39 40.5
MAR 10	
COL E(P)	09 19 43.3
MAR 10	
H-09 33 26.5	
50.1N 178.1E	
h ABOUT 30KM	
FUR EP	09 41 53.4
E	42 03.9
MAR 10	
COL EP	09 53 23.0
MAR 10	
H-11 16 50.1	
17.1S 174.2W	
h ABOUT 125KM	
BCN EP	11 28 33.0
TUC EP	11 28 37.0
ALQ IP	11 29 01.0
COL IP	11 29 08.2
BOZ EP	11 29 09.0
MAR 10	
SJG EP	11 20 13.5
IS	20 30.5

Date and Station	Phase (GCT)
	h m s
MAR 10	
SJG IP D	11 37 08.5
IS	37 23.7
MAR 10	
COL EP	11 47 52.0
MAR 10	
COL EP	12 58 32.0
MAR 10	
COL EP	12 59 55.0
MAR 10	
ALQ IP	14 21 32.0
IS	21 49.2
MAR 10	
COL EP	15 09 40.3
MAR 10	
COL EP	15 31 43.0
MAR 10	
H-15 53 42.5	
21.9S 179.4E	
h ABOUT 614KM	
HON IP	16 01 30.2
KIP IP	16 01 31.5
GUA IP	16 01 37.0
EPP	03 35.2
UKI E(P)	16 04 57.3
BCN IP D	16 05 15.4
EPP	07 26.5
EUR IP D	16 05 19.9
EPP	07 31.5
TUC IP D	16 05 20.3
E	07 45.0
GCA IP	16 05 28.5
SLC IP	16 05 35.4
COL IP	16 05 38.2
EPP	07 47.0
ALQ IP	16 05 39.8
FGU IP	16 05 43.8
BOZ EP	16 05 46.9
EPP	08 00.0
BRW EP	16 05 59.8
SJG EP'	16 11 22.0
MAR 10	
EUR IP	16 33 52.1
MAR 10	
BUT E(P)	17 50 29.0
E(L)	50 57.0

Date and Station	Phase (GCT)
	h m s
MAR 10	
H-18 56 25.5	
04.2S 139.3E	
h ABOUT 27KM	
COL EP	19 09 08.0
SJG EP'	19 16 20.0
MAR 10	
BOZ E(P)	19 31 15.0
E	32 31.0
KIP IP	19 31 48.3
MAR 10	
H-20 09 15.2	
43.4N 125.4W	
h ABOUT 33KM	
BOZ EP	20 11 40.0
MAR 10	
H-20 29 34.5	
62.5N 147.3W	
h ABOUT 85KM	
COL IP	20 30 13.4
BRW I(P)	20 32 02.0
BOZ EP	20 35 04.0
E	35 22.2
EUR IP	20 35 35.3
ALQ EP	20 36 41.8
TUC EP	20 36 47.0
E	37 03.0
MAR 10	
KIP EP	21 25 29.3
MAR 10	
SHY EP	21 43 24.2
IS	43 52.5
MAR 10	
H-21 52 57.6	
56.3N 155.6W	
h ABOUT 33KM	
COL EP	21 55 12.0
BRW E(P)	21 56 30.1
BOZ EP	21 58 57.0
RCD IP	21 59 47.0
E	59 56.0
TUC E(P)	22 00 21.4
MAR 10	
TUC EP	21 55 17.7
MAR 10	
FGU EP	22 14 31.5
IS	14 52.2
MAR 10	
COL EP	22 25 32.0

Date and Station	Phase (GCT)
	h m s
MAR 10	
KIP EP	22 35 36.9
MAR 10	
TUC E(P)	23 02 12.1
MAR 11	
FUR IP	00 03 19.2
IS	03 39.2
MAR 11	
BOZ E(P)	01 04 36.0
MAR 11	
BOZ E(P)	01 26 56.0
MAR 11	
H-01 44 25.0	
56.1N 156.8W	
h ABOUT 33KM	
COL E(P)	01 46 46.0
MAR 11	
HON EP	01 47 36.9
KIP IP	01 47 38.9
MAR 11	
TUC E(P)	02 06 56.9
MAR 11	
EUR IP	02 07 01.5
MAR 11	
COL EP	02 46 26.0
MAR 11	
BCN E(P)	04 08 57.2
IL	09 37.0
EUR E(P)	04 09 12.5
IL	09 57.5
GCA E(P)	04 09 42.5
MAR 11	
H-05 26 17.3	
18.8S 169.2E	
h ABOUT 219KM	
EUR EP	05 38 56.0
TUC EP	05 39 01.5
MAR 11	
COL IP	07 22 03.8
MAR 11	
KIP IP	07 30 31.7
MAR 11	
AMC IP	08 03 44.8
IS	03 53.2
MAR 11	
EUR IP	08 17 04.0
IS	17 25.5
MAR 11	
H-08 31 01.3	
45.3N 150.4E	
h ABOUT 49KM	

Date and Station	Phase	(GCT) h m s
COL	IP	08 38 19.5
BOZ	FP	08 41 32.5
EUR	EP	08 41 42.0
RCD	EP	08 42 07.0
ALQ	EP	08 42 34.6
MAR 11		
H-08 36 45.8		
45.1N 150.8E		
h ABOUT 33KM		
COL	IP	08 44 06.0
BOZ	EP	08 47 18.5
MAR 11		
KIP	IP	09 18 21.6
MAR 11		
SJG	EP	09 42 37.5
MAR 11		
H-10 02 51.7		
.9S 132.8E		
h ABOUT 20KM		
GUA	E(P)	10 07 11.5
COL	EP	10 15 30.0
SJG	EP'	10 23 05.5
MAR 11		
COL	EP	11 29 53.0
MAR 11		
H-12 03 12.2		
51.9N 176.5E		
h ABOUT 35KM		
AMC	IP	12 03 41.5
	ES	04 00.7
COL	EP	12 08 09.0
BOZ	E(P)	12 11 32.0
EUR	IP	12 11 42.6
ALQ	E(P)	12 13 02.2
MAR 11		
H-12 07 42.2		
53.2N 171.1E		
h ABOUT 27KM		
AMC	IP	12 09 03.5
	IS	10 03.2
COL	EP	12 12 52.0
BOZ	IP	12 16 24.9
	IpP	16 30.0
	EsP	16 32.5
EUR	IP	12 16 36.8
	IsP	16 44.8
BCN	EP	12 16 59.0
	EpP	17 04.7
RCD	IP D	12 17 07.0
	IsP	17 14.5
TUC	E(P)	12 17 33.8
MAR 11		
COL	IP	12 36 12.1
MAR 11		
KIP	IP	13 32 33.5
MAR 11		
H-14 05 54.5		
53.1N 161.9W		
h ABOUT 12KM		
COL	E(P)	14 09 09.0
	E	09 17.5
EUR	IP	14 12 40.2
RCD	E(P)	14 13 21.0
ALQ	IP	14 13 52.2
MAR 11		
TUC	E(P)	14 36 46.9
MAR 11		
H-15 26 03.7		
53.8N 160.7W		
h ABOUT 33KM		
COL	E(P)	15 29 07.5
MAR 11		
H-17 07 05.5		
54.7S 000.7E		
h ABOUT 33KM		
TUC	EP'	17 26 04.6
ALQ	EP'	17 26 06.5
MAR 11		
COL	IP	17 56 03.0
MAR 11		
COL	EP	18 09 55.0
MAR 11		
RCD	E(P)	19 00 45.0
TUC	E(P)	19 01 49.7
MAR 11		
COL	EP	19 10 46.2
	I	10 58.0
MAR 11		
H-19 16 21.6		
42.5N 142.8E		
h ABOUT 37KM		
BRW	IP	19 24 02.0
COL	IP	19 24 26.6
EUP	IP	19 27 41.6
BCN	EP	19 27 59.6
MAR 11		
TUC	E(P)	20 15 28.3
MAR 11		
FGU	E(P)	21 06 40.2
	E(S)	07 06.7
MAR 11		
COL	EP	21 07 53.0
MAR 11		
ALQ	EP	21 17 34.5
	I	23 20.0
MAR 11		
H-21 19 56.1		
52.6N 173.0E		
h ABOUT 35KM		
COL	IP	21 25 02.7
EUR	IP	21 28 41.3
MAR 11		
COL	E(P)	21 37 49.5
MAR 11		
ALQ	EP	22 19 10.5
	I	22 23.0
MAR 11		
TUC	E(P)	22 56 24.9
MAR 11		
H-23 31 02.7		
45.3N 151.3E		
h ABOUT 47KM		
COL	IP	23 38 18.0
MAR 11		
EUR	EP	23 45 29.1
	IL	46 31.9
MAR 12		
KIP	E(P)	00 02 44.7
MAR 12		
KIP	EP	01 37 27.1
BOZ	EP	01 42 08.0
MAR 12		
H-01 55 09.1		
50.4N 177.9E		
h ABOUT 40KM		
COL	EP	02 00 10.0
BRW	IP	02 00 27.0
BOZ	EP	02 03 28.9
EUR	IP	02 03 36.0
TUC	E(P)	02 04 33.7
ALQ	EP	02 04 41.5
MAR 12		
BOZ	EP	01 59 53.2
MAR 12		
H-02 16 42.4		
50.4N 177.9E		
h ABOUT 41KM		
COL	EP	02 21 44.1
BOZ	EP	02 25 01.9
EUR	IP	02 25 09.1
TUC	EP	02 26 07.1
MAR 12		
BOZ	EP	03 29 43.5
MAR 12		
BOZ	FP	05 10 18.9
COL	FP	05 11 11.0
MAR 12		
AMC	IP	05 13 29.9
	IS	14 14.1
MAR 12		
AMC	IP	05 38 39.6
	IS	39 07.6
MAR 12		
H-06 02 42.5		
15.7S 177.3W		
h ABOUT 406KM		
COL	IP	06 14 25.5
BOZ	EP	06 14 35.0
MAR 12		
SHY	EP	06 30 01.5
	FS	30 22.0
MAR 12		
H-06 51 40.0		
55.7N 155.6W		
h ABOUT 16KM		
COL	EP	06 54 05.0
BRW	E(P)	06 55 23.9
	I	55 30.7
BOZ	EP	06 57 41.0
EUR	IP	06 57 57.2
RCD	EP	06 58 32.0
	E	58 39.0
TUC	EP	06 59 07.3
MAR 12		
SHY	IP	07 25 15.1
MAR 12		
H-08 42 28.2		
56.0S 027.5W		
h ABOUT 33KM		
EUR	EP'	09 01 16.8
	EPKKP	11 22.0
BOZ	EP'	09 01 21.2

Date and Station	Phase (GCT)
	h m s
BRW EP'	09 02 11.4
E	02 22.4
E	02 38.4
COL EP'	09 02 13.0
MAR 12	
AMC IP	08 43 50.9
IS	44 17.8
MAR 12	
H-09 33 30.8	
51.6N 175.0E	
h ABOUT 38KM	
BRW EP	09 38 40.6
COL E(P)	09 38 38.5
FUR IP	09 42 09.6
I▸P	42 20.4
IPCP	43 35.5
I▸PCP	43 46.3
ALQ E(P)	09 43 12.5
MAR 12	
H-10 07 00.7	
.6S 132.9E	
h ABOUT 33KM	
BRW EP	10 19 31.5
COL EP	10 19 37.5
I	19 45.5
ALQ EP'	10 25 41.5
MAR 12	
FUR IP	10 17 55.5
I▸P	18 06.3
MAR 12	
FUR EP	12 52 58.4
MAR 12	
COL EP	13 00 54.0
MAR 12	
BRW E(P)	14 28 10.0
MAR 12	
SHY IP	14 36 23.6
MAR 12	
COL E(P)	16 22 47.2
BRW E(P)	16 23 04.8
FUR EP	16 28 53.0
MAR 12	
BCN IP C	16 25 56.2
IS	25 57.9
MAR 12	
SHY IP	17 03 08.9
ES	03 26.6
MAR 12	
H-17 31 02.2	
26.8S 176.5W	
h ABOUT 48KM	

Date and Station	Phase (GCT)
	h m s
TUC E(P)	17 43 39.0
EUR EP	17 43 42.5
BOZ EP	17 44 12.2
MAR 12	
ALQ I(P)	17 46 05.2
MAR 12	
AMC EP	17 54 35.9
ES	55 24.5
MAR 12	
SHY EP	19 28 22.3
IS	29 20.7
MAR 12	
H-19 29 03.0	
51.9N 174.9E	
h ABOUT 43KM	
SHY IP	19 29 20.7
COL IP	19 34 06.5
BRW IP	19 34 07.8
BOZ E(P)	19 37 34.0
EUR FP	19 37 40.4
MAR 12	
EUR EP	19 35 48.3
MAR 12	
TUC E(P)	20 13 11.0
MAR 12	
H-20 19 06.5	
38.9N 017.7E	
h ABOUT 73KM	
BOZ EP	20 31 32.4
MAR 12	
TUC E(P)	20 26 49.0
E(L)	27 39.5
MAR 12	
TUC E(P)	20 50 40.0
MAR 12	
H-21 20 29.8	
11.8S 164.6E	
h ABOUT 44KM	
COL E(P)	21 32 57.4
EUR EP	21 33 25.4
MAR 12	
BRW IP	21 25 00.3
MAR 12	
SHY IP	22 02 41.6
MAR 12	
H-22 16 54.1	
27.0S 071.0W	
h ABOUT 33KM	
ALQ I(P)	22 28 06.6

Date and Station	Phase (GCT)
	h m s
FGU EP	22 28 43.2
RCD EP	22 28 44.0
EUR EP	22 28 53.5
BOZ EP	22 29 08.0
MAR 12	
FGU EP	22 17 02.7
IS	17 23.2
MAR 12	
H-22 54 44.7	
05.8S 077.8W	
h ABOUT 52KM	
SJG EP	23 00 17.5
I	00 21.2
ALQ IP	23 03 26.3
TUC EP	23 03 30.0
GCA FP	23 04 00.9
BCN EP	23 04 10.0
RCD EP	23 04 12.0
EUR IP	23 04 28.4
I	04 31.1
BOZ EP	23 04 42.6
I	04 45.0
COL EP	23 07 24.0
MAR 12	
TUC E(P)	22 55 57.7
MAR 12	
ALQ IP	23 00 08.3
MAR 12	
FGU E(P)	23 14 12.4
MAR 12	
H-23 22 28.5	
50.2N 178.2E	
h ABOUT 33KM	
BOZ EP	23 30 46.9
EUR IP	23 30 54.5
MAR 12	
H-23 37 09.3	
51.3N 179.9W	
h ABOUT 44KM	
COL EP	23 41 56.0
BRW EP	23 42 09.3
BOZ IP	23 45 14.9
EUR IP	23 45 23.5
MAR 12	
AMC IP	23 49 32.5
IS	49 38.5

Date and Station	Phase (GCT)
	h m s
MAR 13	
H-01 23 25.8	
27.1S 069.6W	
h ABOUT 75KM	
TUC E(P)	01 34 36.0
ALQ I(P)	01 34 36.8
FGU EP	01 35 14.0
EUR EP	01 35 24.6
BOZ EP	01 35 39.0
MAR 13	
AMC IP	02 23 12.2
IS	33 18.2
MAR 13	
COL IP	02 47 07.5
MAR 13	
H-04 08 40.5	
39.1N 023.9E	
h ABOUT 12KM	
BRW EP	04 19 53.0
BOZ EP	04 21 27.0
MAR 13	
H-04 09 38.5	
39.0N 023.4E	
h ABOUT 33KM	
BRW FP	04 20 46.5
COL EP	04 21 22.0
BOZ EP	04 22 21.0
BUT FP	04 22 26.0
ALQ I(P)	04 22 51.4
EUR EP	04 22 53.8
TUC E(P)	04 23 05.3
MAR 13	
H-04 36 42.7	
11.2S 111.6E	
h ABOUT 33KM	
EUR EP'	04 55 50.5
MAR 13	
AMC IP	04 49 29.4
IS	49 36.9
MAR 13	
EUR EP	04 57 30.5
BOZ EP	04 57 20.5
MAR 13	
H-06 08 12.3	
14.2S 166.9E	
h ABOUT 61KM	
COL EP	06 20 47.0

Date and Station	Phase (GCT)
	h m s
MAR 13	
TUC E(P)	06 41 57.3
MAR 13	
H-06 47 53.1	
.7S 133.0E	
h ABOUT 33KM	
GUA EP	06 52 08.0
COL EP	07 00 31.0
MAR 13	
BCN IP	06 49 54.3
IS	50 07.5
EUR EP	06 50 28.6
MAR 13	
H-06 55 29.3	
46.8N 152.5E	
h ABOUT 44KM	
BRW EP	07 02 12.4
COL EP	07 02 31.0
MAR 13	
BRW E(P)	07 01 30.5
MAR 13	
H-07 33 23.0	
53.1N 162.2W	
h ABOUT 37KM	
AMC EP	07 36 05.9
COL EP	07 36 34.0
SIT E(P)	07 37 09.5
BRW IP	07 37 34.8
E	41 05.0
KIP IP	07 39 49.1
I	39 56.7
I	40 03.8
BOZ IP D	07 39 58.0
I	40 09.0
I	40 26.5
EPCP	42 39.8
E	42 50.0
EUR IP	07 40 06.9
IPCP	42 41.5
SLC EP	07 40 21.4
BCN EP D	07 40 32.2
EPCP	42 51.8
FGU IP	07 40 32.8
GCA EP	07 40 41.6
RCD IP D	07 40 48.0
I	41 00.0
TUC EP	07 41 13.1
EPCP	43 08.0
ALQ IP	07 41 19.2

Date and Station	Phase (GCT)
	h m s
MAR 13	
SJG IP C	07 44 02.0
IS	44 15.0
MAR 13	
KIP E(P)	08 14 24.8
MAR 13	
SHY EP	08 44 46.0
ES	45 03.0
MAR 13	
TUC EP	08 47 02.0
F(L)	48 06.5
ALQ EP	08 48 11.1
FUR EP	08 48 53.7
MAR 13	
H-08 55 34.7	
26.8S 176.3W	
h ABOUT 31KM	
KIP EP	09 04 39.0
TUC E(P)	09 08 12.3
BCN E(P)	09 08 14.2
EUR IP	09 08 17.3
ALQ I(P)	09 08 34.2
BOZ EP	09 08 47.0
COL EP	09 08 50.0
MAR 13	
BRW E(P)	10 04 38.5
MAR 13	
SHY IP	10 46 24.8
ES	46 37.0
MAR 13	
H-10 52 06.5	
52.6N 172.1E	
h ABOUT 35KM	
SHY IP	10 52 27.1
BRW EP	10 57 12.6
COL IP	10 57 16.5
BOZ EP	11 00 45.1
EUR IP	11 00 56.7
MAR 13	
BOZ E(P)	10 54 39.0
MAR 13	
BRW E(P)	11 45 48.0
MAR 13	
BCN IP C	12 14 07.4
IS	14 25.1
EUR IP	12 14 28.0
IL	15 08.0

Date and Station	Phase (GCT)
	h m s
MAR 13	
BRW E(P)	12 34 58.0
MAR 13	
H-12 37 52.8	
50.2N 178.9E	
h ABOUT 36KM	
AMC IP	12 38 13.8
BRW E(P)	12 43 03.5
BOZ IP	12 46 08.0
I	46 11.0
EUR IP	12 46 15.6
TUC E(P)	12 47 12.0
MAR 13	
COL E(P)	12 57 51.9
MAR 13	
BRW EP	13 22 18.5
COL EP	13 22 23.0
BOZ EP	13 25 53.0
EUR EP	13 26 04.1
MAR 13	
H-13 25 50.6	
51.1N 179.0E	
h ABOUT 33KM	
AMC IP	13 26 00.0
COL EP	13 30 42.5
BRW EP	13 30 53.7
BOZ E(P)	13 34 03.0
EUR IP	13 34 10.7
MAR 13	
H-13 54 33.0	
20.4S 177.6W	
h ABOUT 470KM	
GUA EP	14 02 44.0
EUR IP	14 06 08.2
EpP	08 01.7
TUC EP D	14 06 08.6
EpP	07 59.4
ALQ I(P)	14 06 29.2
COL IP	14 06 31.6
EpP	08 25.0
BOZ IP	14 06 37.0
EpP	08 29.0
BRW IP	14 06 53.0
MAR 13	
H-14 22 21.7	
51.3N 179.1E	
h ABOUT 40KM	

Date and Station	Phase (GCT)
	h m s
AMC IP	14 22 29.2
COL EP	14 27 13.0
BRW IP	14 27 24.0
BOZ EP	14 30 32.5
E	32 25.0
EUR IP	14 30 41.3
TUC E(P)	14 31 40.7
E	32 38.8
MAR 13	
TUC E(P)	14 24 28.2
MAR 13	
SHY EP	14 33 20.0
ES	34 03.0
MAR 13	
BUT IP	14 46 23.0
IL	46 40.0
MAR 13	
H-15 20 00.3	
50.2N 178.5E	
h ABOUT 33KM	
BRW EP	15 25 14.0
MAR 13	
H-15 26 03.2	
51.3N 178.0E	
h ABOUT 53KM	
SHY EP	15 26 46.0
ES	27 21.0
COL EP	15 30 56.8
BOZ EP	15 34 16.8
EUR IP	15 34 26.5
IpP	34 39.0
TUC E(P)	15 35 24.7
ALQ E(P)	15 35 32.0
MAR 13	
BRW E(P)	15 33 08.6
MAR 13	
BHP IP	16 11 48.0
MAR 13	
H-16 12 29.9	
54.0N 160.9E	
h ABOUT 33KM	
COL EP	16 18 14.2
EUR IP	16 22 04.7
MAR 13	
H-17 09 19.2	
51.1N 176.1E	
h ABOUT 35KM	
COL EP	17 14 24.0
BRW E(P)	17 14 29.6

Date and Station	Phase (GCT)
	h m s
BOZ FP	17 17 45.0
EUR IP	17 17 54.9
TUC E(P)	17 18 51.6
MAR 13	
FUR EP	19 24 08.0
MAR 13	
H-20 53 38.7	
51.4N 176.5E	
h ABOUT 35KM	
COL EP	20 58 40.0
EUR IP	21 02 10.5
MAR 13	
TUC E(P)	20 56 05.5
MAR 13	
H-20 56 05.8	
38.7N 141.9E	
h ABOUT 33KM	
BRW EP	21 04 18.3
COL EP	21 04 40.0
MAR 13	
BCN E(P)	20 58 15.0
MAR 13	
FUR IP	21 41 36.6
MAR 13	
EUR EP	22 40 21.0
MAR 13	
BHP IP	22 42 58.0
IS	43 30.0
MAR 13	
TUC E(P)	22 56 19.8
BCN EP	22 57 20.0
EL	57 57.5
MAR 14	
EUR EP	00 15 07.6
MAR 14	
EUR IP	00 17 23.0
IL	17 59.7
MAR 14	
COL EP	02 56 04.4
MAR 14	
TUC E(P)	03 42 06.7
MAR 14	
TUC E(P)	05 01 40.2
MAR 14	
H-05 11 21.9	
36.8N 073.1E	
h ABOUT 163KM	
COL EP	05 22 40.4
MAR 14	
COL E(P)	05 26 35.4

Date and Station	Phase (GCT)
	h m s
MAR 14	
GUA IP	05 42 13.0
IS	42 25.0
MAR 14	
TUC E(P)	06 12 30.5
MAR 14	
TUC E(P)	06 26 23.0
MAR 14	
TUC E(P)	06 35 46.0
MAR 14	
BRW EP	07 52 26.2
COL IP	07 52 46.0
BOZ FP	07 56 04.0
EUR IP	07 56 14.3
MAR 14	
EUR EP	08 04 04.8
TUC E(P)	08 04 49.3
MAR 14	
BCN EP	08 07 30.5
MAR 14	
BRW FP	08 20 31.3
MAR 14	
EUR EP	08 23 46.0
MAR 14	
H-08 37 12.8	
24.6S 179.7W	
h ABOUT 462KM	
TUC E(P)	08 49 08.0
MAR 14	
H-08 52 22.2	
18.8N 094.6W	
h ABOUT 97KM	
ALQ IP	08 56 42.3
TUC EP C	08 56 48.0
GCA EP	08 57 26.5
I	57 28.5
BCN EP C	08 57 37.5
FGU EP	08 57 44.5
RCD EP	08 57 50.0
SLC IP	08 57 54.0
EUR IP	08 58 04.4
BOZ EP	08 58 27.0
COL IP	09 02 05.6
BRW EP	09 02 44.5
MAR 14	
FGU IP	10 10 55.3

Date and Station	Phase (GCT)
	h m s
MAR 14	
H-10 42 57.2	
34.1N 117.5W	
h ABOUT 5KM	
BCN E(P)	10 43 48.5
EUR E(P)	10 44 25.5
MAR 14	
BOZ E(P)	11 26 17.0
E	26 39.0
MAR 14	
H-11 41 53.2	
36.5N 068.4E	
h ABOUT 86KM	
BRW EP	11 52 44.0
COL IP	11 53 27.5
MAR 14	
H-12 04 17.5	
37.5N 140.8E	
h ABOUT 73KM	
BRW EP	12 12 37.8
COL EP	12 12 59.0
BOZ FP	12 15 50.5
EUR EP	12 15 58.5
MAR 14	
BRW EP	12 28 17.6
MAR 14	
H-12 47 42.2	
31.9S 138.8E	
h ABOUT 26KM	
EUR IP'	13 06 35.8
TUC EP'	13 06 39.0
BOZ EP'	13 06 44.5
MAR 14	
H-13 18 05.3	
39.6N 110.3W	
h ABOUT 0KM	
FGU EP	13 18 35.0
I	18 37.5
IS	18 57.5
MAR 14	
COL EP	14 48 22.0
MAR 14	
H-14 50 13.1	
52.2N 176.6E	
h ABOUT 33KM	
SHY IP	14 50 40.3
ES	50 58.0
AMC IP	14 50 42.5
COL EP	14 55 08.0
BRW EP	14 55 12.0

Date and Station	Phase (GCT)
	h m s
EUR EP	14 58 46.6
MAR 14	
BRW EP	14 51 06.8
COL EP	14 51 10.7
BOZ FP	14 54 38.0
EUR IP	14 54 49.2
MAR 14	
AMC IP	15 20 48.3
IS	20 57.8
MAR 14	
COL EP	15 21 36.7
MAR 14	
H-15 30 37.1	
00.4S 080.8W	
h ABOUT 33KM	
ALQ EP	15 38 33.0
MAR 14	
H-15 53 06.6	
36.3N 070.7E	
h ABOUT 219KM	
BRW IP C	16 03 40.2
ES	12 01.7
F	12 16.7
SCS	12 58.0
E	15 29.5
F	31 08.5
IP'P'	32 01.5
F	34 50.2
SHY IP	16 03 51.4
GUA EP	16 03 52.5
(P'P')	31 59.6
AMC EP	16 04 08.8
COL IP	16 04 23.1
I	04 33.0
P'P'	31 18.0
SKPP'	34 46.3
P'P'P'	51 33.3
SIT EP	16 05 16.4
F	06 15.0
EPP	08 38.0
ESKS	15 20.0
ESKPP'	34 33.5
BUT EP	16 06 16.0
BOZ FP D	16 06 21.0
I	07 22.0
IP'	10 06.0
ISKS	16 38.0
EP'P'	31 06.0
E	33 52.0
RCD EP	16 06 27.5
EPP	10 35.0

Date and Station	Phase (GCT) h m s
WAS IP	16 06 28.0
E*P	07 18.0
EPP	10 27.0
EPPP	12 43.0
ESKS	16 47.0
FGU IP	16 06 43.5
UKI EP	16 06 45.0
EUR IP C	16 06 49.5
KIP EP	16 07 00.0
I*P	08 11.0
EPP	11 25.0
I*PP	12 36.0
ISKS	17 22.0
E	18 16.0
ESPP	21 01.0
EL	37 00.0
E	44 38.0
GCA EP	16 07 01.6
BCN EP C	16 07 05.7
E	08 04.2
F	10 17.5
IPP	11 31.0
ESPP	21 40.0
EPKKP	22 25.0
ESKKP	25 45.0
ESS	26 34.0
E	27 27.0
P'P'	30 47.8
E	34 01.0
ALQ EP	16 07 11.1
I	14 04.5
HON EPP	16 11 23.0
E*PP	12 17.0
E(PPP)	13 40.0
ISKS	17 22.0
E	19 00.0
ESPP	20 57.0
EL	37 12.0
SJG EP	16 07 24.0
I	10 36.0
E	11 16.0
IPP	12 04.8
ISKS	17 40.8
E	18 44.0
IPS	21 42.5
IPKKP	22 09.0
EPPS	22 47.0
E	32 32.5
MAR 14	
BRW EP	15 57 57.0
TUC EP	16 07 20.9
I	07 24.5
MAR 14	
SHY IP	16 38 40.8
ES	38 52.0
MAR 14	
COL EP	17 04 00.0
MAR 14	
BUT EP	18 01 50.0
BOZ EP	18 01 51.0
IL	02 26.0
EUR EP	18 02 27.1
MAR 14	
GUA EP	18 25 42.5
E(S)	25 50.5
MAR 14	
TUC E(P)	18 30 55.3
MAR 14	
EUR IP	18 31 30.9
IS	31 46.0
MAR 14	
EUR IP	18 42 09.7
IS	42 25.5
MAR 14	
H-19 38 18.6	
52.8N 174.7W	
h ABOUT 168KM	
COL E(P)	19 42 21.8
EUR IP	19 45 51.9
TUC E(P)	19 46 53.0
MAR 14	
COL E(P)	20 11 24.1
MAR 14	
SJG EP	20 37 55.5
IS	38 08.2
MAR 14	
ALQ EP	20 54 23.0
MAR 14	
COL EP	21 53 37.3
MAR 14	
H-22 01 16.7	
51.3N 176.9E	
h ABOUT 57KM	
COL E(P)	22 06 14.0
EUR EP	22 09 43.8
MAR 14	
H-22 11 42.3	
19.0S 176.1W	
h ABOUT 39KM	
COL IP	22 24 20.3
MAR 14	
EUR IP	22 19 13.7
IS	19 26.5
MAR 14	
H-22 41 36.1	
04.6N 082.6W	
h ABOUT 33KM	
ALQ IP	22 48 49.7
TUC E(P)	22 48 53.0
GCA E(P)	22 49 27.0
BCN EP	22 49 36.5
RCD EP	22 49 38.0
FGU EP	22 49 39.5
EUR EP	22 49 59.5
BOZ EP	22 50 14.9
COL E(P)	22 53 19.6
BRW EP	22 53 48.0
SJG EP'	23 01 19.0
MAR 14	
H-23 49 00.4	
16.2S 177.3W	
h ABOUT 427KM	
EUR IP	24 00 22.9
TUC E(P)	24 00 24.6
COL IP	24 00 41.7
ALQ I(P)	24 00 47.5
MAR 14	
COL EP	23 58 36.3
MAR 15	
ALQ EP	01 17 49.0
MAR 15	
AMC IP	01 31 53.6
ES	32 03.5
MAR 15	
H-02 01 35.8	
52.9N 170.1W	
h ABOUT 33KM	
COL EP	02 05 26.0
BRW EP	02 06 01.7
BOZ EP	02 08 50.0
EUR EP	02 08 59.9
MAR 15	
H-02 02 08.9	
22.4N 121.4E	
h ABOUT 33KM	
BRW EP	02 12 58.0
COL EP	02 13 25.0
MAR 15	
COL EP	02 25 21.0
BRW EP	02 25 55.0
MAR 15	
H-03 01 13.3	
15.0S 173.9W	
h ABOUT 33KM	
BCN EP	03 12 56.5
E	13 20.0
EUR IP	03 13 02.5
TUC EP	03 13 02.5
GCA EP	03 13 12.7
SLC EP	03 13 21.6
ALQ E(P)	03 13 27.0
COL EP	03 13 29.0
FGU F(P)	03 13 29.5
BOZ EP	03 13 33.5
MAR 15	
H-04 50 09.5	
04.2N 126.4E	
h ABOUT 102KM	
BRW EP	05 02 19.3
E	03 16.7
SJG EP	04 52 44.5
MAR 15	
H-04 59 58.9	
51.7N 174.1E	
h ABOUT 21KM	
SHY EP	05 00 20.0
ES	00 35.0
AMC IP	05 00 51.7
IS	01 32.2
COL EP	05 05 09.0
BRW EP	05 05 13.1
BOZ EP	05 08 31.8
I	08 40.0
EUR P	05 08 43.4
BCN EP	05 09 06.0
E	09 12.5
RCD E(P)	05 09 15.0
TUC F(P)	05 09 41.0
E	09 49.0
ALQ F(P)	05 09 46.2
MAR 15	
TUC E(P)	05 14 20.7
MAR 15	
H-06 04 00.5	
23.6S 176.8W	
h ABOUT 33KM	
TUC EP	06 16 30.1
EUR IP	06 16 32.6
BOZ EP	06 17 02.0
MAR 15	
TUC E(P)	06 13 31.2
E	14 09.5

Date and Station	Phase (GCT)
	h m s
MAR 15	
COL E(P)	06 33 07.5
MAR 15	
TUC E(P)	06 41 26.5
E	42 10.9
MAR 15	
BUT EP	06 46 19.5
IL	46 39.0
MAR 15	
TUC E(P)	06 48 29.5
E	49 09.6
MAR 15	
TUC E(P)	06 56 55.7
E	57 39.8
MAR 15	
BCN EP	06 58 40.0
MAR 15	
BRW EP	07 16 41.0
E	16 54.6
COL EP	07 16 42.0
BOZ E(P)	07 20 07.0
EUR IP	07 20 18.1
MAR 15	
H-07 32 01.6	
51.7N 176.5E	
h ABOUT 61KM	
AMC IP	07 32 30.3
ES	32 50.3
SHY IP	07 32 31.4
ES	32 52.0
COL EP	07 36 57.0
BRW EP	07 37 02.6
BOZ EP	07 40 18.5
EUR IP	07 40 29.6
TUC E(P)	07 41 28.8
MAR 15	
BRW E(P)	07 51 48.4
MAR 15	
H-08 25 54.5	
51.3N 174.1E	
h ABOUT 33KM	
SHY IP	08 26 16.6
ES	26 37.0
AMC EP	08 26 42.6
IS	27 17.3
COL EP	08 31 05.0
BRW EP	08 31 07.2
E	31 19.8
EPCP	34 50.2

Date and Station	Phase (GCT)
	h m s
BOZ EP	08 34 28.0
EUR IP	08 34 38.6
I	34 50.1
BCN EP	08 35 00.5
RCD EP	08 35 11.0
E	35 24.0
TUC E(P)	08 35 35.4
ALQ I(P)	08 35 42.1
SJG EP	08 39 08.5
E	39 20.0
MAR 15	
BRW E(P)	09 35 46.0
MAR 15	
H-10 30 34.2	
51.8N 174.6E	
h ABOUT 33KM	
AMC EP	10 31 19.6
COL E(P)	10 35 40.2
BRW E(P)	10 35 40.5
MAR 15	
H-10 36 18.8	
22.2S 175.2E	
h ABOUT 33KM	
COL EP	10 49 21.0
MAR 15	
H-10 54 42.0	
51.1N 174.0E	
h ABOUT 9KM	
SHY IP	10 55 11.0
F(S)	55 29.0
AMC IP	10 55 35.8
I(S)	56 08.6
COL IP	10 59 58.0
BRW EP	11 00 01.5
EPCP	03 41.5
BOZ EP	11 03 20.0
EUR IP	11 03 30.7
I	03 45.2
RCD E(P)	11 04 03.0
ALQ I(P)	11 04 34.7
MAR 15	
H-12 03 38.0	
52.0N 173.3E	
h ABOUT 33KM	
SHY IP	12 03 53.9
BRW EP	12 08 46.6
COL EP	12 08 48.0

Date and Station	Phase (GCT)
	h m s
EUR EP	12 12 24.0
MAR 15	
TUC E(P)	12 17 12.0
MAR 15	
H-12 35 29.8	
55.9N 154.6W	
h ABOUT 23KM	
COL EP	12 37 51.0
BRW EP	12 39 14.2
EUR EP	12 43 02.0
MAR 15	
H-12 38 52.1	
55.7N 154.5W	
h ABOUT 18KM	
COL E(P)	12 41 15.0
BRW EP	12 42 37.3
EUR IP	12 45 03.7
BCN EP	12 45 32.0
TUC E(P)	12 46 13.9
MAR 15	
BOZ EP	12 42 51.5
BRW E(P)	12 45 41.0
MAR 15	
H-14 02 42.1	
06.5S 153.2E	
h ABOUT 38KM	
GUA E(P)	14 07 29.6
COL IP	14 15 05.0
BRW IP	14 15 11.5
EUR IP	14 16 01.7
MAR 15	
BRW E(P)	15 10 26.0
COL EP	15 10 46.0
EUR IP	15 14 25.3
MAR 15	
H-15 13 27.7	
51.2N 175.9E	
h ABOUT 33KM	
AMC EP	15 14 01.4
IS	14 28.4
BOZ EP	15 21 54.0
MAR 15	
AMC EP	15 29 25.7
IS	30 03.4
MAR 15	
COL EP	15 56 23.5
BRW EP	15 56 59.5

Date and Station	Phase (GCT)
	h m s
MAR 15	
GUA IP	16 23 44.4
ES	23 55.0
MAR 15	
TUC E(P)	21 21 40.3
MAR 15	
COL EP	21 45 34.0
MAR 15	
TUC E(P)	22 25 15.7
MAR 15	
H-23 13 29.6	
05.6S 152.3E	
h ABOUT 33KM	
COL EP	23 25 51.0
MAR 15	
EUR EP	23 58 01.6
FL	59 49.0
MAR 16	
COL EP	00 49 41.5
MAR 16	
SHY EP	01 02 36.4
MAR 16	
TUC E(P)	01 08 29.3
MAR 16	
TUC E(P)	01 14 31.6
MAR 16	
H-02 11 18.9	
23.1S 013.5W	
h ABOUT 32KM	
BRW EP'	02 30 21.6
COL IP'	02 30 23.7
MAR 16	
TUC E(P)	02 34 32.8
MAR 16	
EUR EP	03 02 02.6
IS	02 19.9
MAR 16	
EUR IP	03 16 30.5
IS	16 45.2
MAR 16	
KIP EP	03 29 38.7
MAR 16	
H-03 36 51.7	
51.8N 175.3E	
h ABOUT 59KM	
SHY IP	03 37 12.9
ES	37 27.4
AMC IP	03 37 31.6
IS	38 01.9
COL EP	03 41 52.0
BRW E(P)	03 41 54.4

Date and Station	Phase	(GCT) h m s
	EUR EP	03 45 25.9
	E	45 32.9
MAR 16		
H-04 10 20.7		
49.7N 155.2E		
h ABOUT 52KM		
	BRW IP	04 16 33.0
	COL IP	04 16 52.0
	BOZ EP	04 20 16.0
	EUR IP	04 20 28.2
MAR 16		
H-04 40 47.1		
27.1S 176.4W		
h ABOUT 33KM		
	EUR EP	04 53 30.0
MAR 16		
	BRW E(P)	05 36 06.1
	TUC E(P)	05 39 08.6
	E	40 34.4
MAR 16		
H-05 37 13.0		
38.7N 112.2W		
h ABOUT 33KM		
	GCA IP	05 37 43.5
	I	38 06.8
	EUR IP	05 38 00.2
	I	38 26.7
	IL	38 38.9
	FGU E	05 38 14.2
MAR 16		
H-07 22 53.8		
52.1N 171.6E		
h ABOUT 33KM		
	SHY IP	07 23 20.7
	IS	23 41.3
	BRW EP	07 28 05.7
	E	28 16.9
	COL IP	07 28 09.7
	BOZ IP	07 31 36.0
	EUR IP	07 31 47.8
MAR 16		
	RCD E(P)	09 12 07.0
MAR 16		
H-10 39 40.5		
23.7S 179.8E		
h ABOUT 580KM		
	KIP EP	10 47 41.5
	BCN EP	10 51 19.9
	TUC EP C	10 51 24.3
	EUR IP C	10 51 25.2
	GCA IP	10 51 33.5
	SLC EP	10 51 40.9
	ALQ IP	10 51 44.5
	COL EP	10 51 47.0
MAR 16		
	AMC IP	12 06 56.2
	IS	07 11.2
MAR 16		
H-12 22 08.6		
53.2N 177.1W		
h ABOUT 40KM		
	BOZ EP	12 29 55.0
	I	30 04.0
	EUR EP	12 30 07.4
MAR 16		
	BRW E(P)	12 38 52.6
	BOZ EP	12 44 39.0
	EUR EP	12 44 51.2
MAR 16		
	COL EP	12 41 21.0
	BOZ EP	12 46 40.5
MAR 16		
	SJG EP	12 56 05.5
MAR 16		
	BOZ EP	13 03 25.8
MAR 16		
H-13 04 29.0		
40.0N 143.2E		
h ABOUT 41KM		
	BRW E(P)	13 12 27.4
	COL EP	13 12 55.0
	BOZ EP	13 15 47.0
	EUR EP	13 15 56.3
	ALQ E(P)	13 16 45.0
MAR 16		
H-14 09 58.5		
50.9N 176.0E		
h ABOUT 33KM		
	COL EP	14 15 05.0
	BRW EP	14 15 10.9
	BOZ EP	14 18 23.6
	EUR EP	14 18 33.3
MAR 16		
	COL EP	14 31 44.0
	EUR E(P)	14 35 21.4
MAR 16		
	SHY IP	14 38 13.4
	ES	38 35.0
MAR 16		
	BOZ EP	14 46 53.5
MAR 16		
H-14 47 47.2		
52.1N 171.7E		
h ABOUT 30KM		
	SHY IP	14 48 13.4
	ES	48 35.0
	BRW EP	14 52 58.0
	E	53 07.7
	COL IP	14 53 02.4
	BOZ EP	14 56 28.6
	EUR IP	14 56 41.0
	TUC EP	14 57 38.5
MAR 16		
	BOZ E(P)	14 47 52.0
	EUR E(P)	14 48 56.8
MAR 16		
	UKI E(P)	15 43 27.0
	EUR IP	15 44 31.9
	EL	46 08.5
	BOZ E(P)	15 45 30.0
MAR 16		
H-16 46 15.5		
40.8N 142.9E		
h ABOUT 34KM		
	AMC EP	16 51 57.4
	GUA I(P)	16 52 02.0
	BRW IP	16 54 09.5
	EPP	55 53.5
	E	17 00 35.0
	COL IP	16 54 32.5
	SIT E(P)	16 55 30.5
	E(S)	17 03 00.0
	KIP EP	16 55 31.8
	BUT EP	16 57 29.0
	E(S)	17 06 37.2
	BOZ IP	16 57 32.0
	IPP	57 42.0
	ES	17 06 48.0
	EL	15 00.0
	EUR IP	16 57 42.5
	ES	07 04.5
	SLC IP	16 57 52.2
	FGU EP	16 57 59.0
	BCN EP D	16 57 59.4
	ES	17 07 42.0
	RCD EP	16 58 05.5
	ES	17 07 42.0
	TUC EP	16 58 26.4
	ALQ IP	16 58 31.3
MAR 16		
H-17 02 30.0		
52.1N 174.3E		
h ABOUT 35KM		
	SHY IP	17 02 42.0
	E	02 59.0
	BRW E(P)	17 07 29.7
	COL IP	17 07 33.2
	EUR IP	17 11 11.0
	EPP	11 22.0
MAR 16		
	SHY EP	17 14 14.3
	ES	14 31.0
	COL EP	17 19 00.0
MAR 16		
H-18 24 15.2		
52.1N 175.0E		
h ABOUT 36KM		
	SHY IP	18 24 33.1
	AMC EP	18 24 57.5
	IS	25 26.5
	COL IP	18 29 17.0
	BRW IP	18 29 18.0
	BOZ EP	18 32 40.5
	EUR IP	18 32 52.3
MAR 16		
	KIP E(P)	19 10 47.7
MAR 16		
	BOZ EP	20 13 45.2
MAR 16		
	COL EP	20 19 43.0
MAR 16		
	COL EP	20 40 49.0
MAR 16		
H-21 33 08.4		
40.1N 143.2E		
h ABOUT 33KM		
	BRW E(P)	21 41 07.6
	COL EP	21 41 29.0
	BOZ EP	21 44 26.8
	E	44 35.8
	EUR EP	21 44 36.5

Date and Station	Phase (GCT)
	h m s
MAR 16	
FGU EP	21 54 02.0
IS	54 18.3
MAR 16	
TUC EP	22 28 50.8
ES	29 10.5
MAR 16	
COL EP	23 47 42.0
EUR IP	23 47 51.5
MAR 17	
ALQ E(P)	00 28 38.7
MAR 17	
TUC EP	00 36 40.3
MAR 17	
COL EP	00 41 27.0
MAR 17	
KIP EP	01 26 21.1
E	29 55.3
MAR 17	
COL IP	02 23 29.5
MAR 17	
BRW EP	02 52 46.4
MAR 17	
H-04 33 40.7	
51.1N 178.3W	
h ABOUT 33KM	
COL EP	04 38 21.5
BRW E(P)	04 38 39.5
BOZ EP	04 41 39.7
MAR 17	
COL E(P)	04 53 21.0
MAR 17	
BRW EP	04 57 36.8
MAR 17	
BRW EP	05 03 21.8
MAR 17	
TUC E(P)	05 26 33.2
MAR 17	
SHY EP	06 25 08.5
MAR 17	
H-06 30 52.7	
52.4N 175.4W	
h ABOUT 30KM	
COL E(P)	06 35 26.0
BRW E(P)	06 35 33.0
BOZ EP	06 38 36.2
EUR EP	06 38 43.3
MAR 17	
BRW IP	06 34 53.1

Date and Station	Phase (GCT)
	h m s
MAR 17	
COL EP	06 58 06.0
MAR 17	
H-07 18 55.9	
27.8N 056.5E	
h ABOUT 60KM	
BRW E(P)	07 30 50.8
MAR 17	
H-07 54 14.2	
51.0N 172.2E	
h ABOUT 30KM	
COL EP	07 59 35.0
BOZ IP	08 02 56.8
EUR IP C	08 03 07.0
TUC E(P)	08 04 06.5
MAR 17	
BCN EP	07 56 37.3
EL	57 04.0
TUC E(P)	07 56 50.5
MAR 17	
BOZ E(P)	10 11 07.0
E	11 11.0
MAR 17	
BOZ EP	11 46 45.0
MAR 17	
H-12 32 46.9	
49.6N 155.2E	
h ABOUT 60KM	
COL EP	12 39 18.0
BOZ EP	12 42 42.0
EUR EP	12 42 53.4
MAR 17	
BRW E(P)	12 39 21.0
MAR 17	
H-12 41 08.8	
01.2N 126.8E	
h ABOUT 68KM	
GUA EP	12 45 57.0
BRW IP	12 53 36.4
E	53 50.5
COL EP	12 53 47.0
EUR EP'	12 59 35.0
TUC EP'	12 59 47.2
ALQ IP'	12 59 52.3
MAR 17	
BCN E(P)	13 08 43.0
EL	09 24.5

Date and Station	Phase (GCT)
	h m s
MAR 17	
H-13 14 20.2	
41.1N 069.7E	
h ABOUT 33KM	
BRW EP	13 24 46.2
COL EP	13 25 32.0
BOZ EP	13 27 35.0
MAR 17	
BOZ E(P)	14 15 46.0
MAR 17	
BCN EP	14 17 45.5
E	18 01.0
MAR 17	
H-14 27 12.4	
52.8N 171.9E	
h ABOUT 23KM	
SHY IP	14 27 36.5
BRW IP	14 32 19.1
EPCP	36 08.3
COL EP	14 32 23.0
SIT E(P)	14 33 21.2
KIP IP	14 34 39.4
HON IP	14 34 40.3
E	34 52.2
UKI E(P)	14 35 33.6
BUT EP	14 35 46.4
BOZ IP D	14 35 52.9
ES	42 53.0
EUR IP D	14 36 04.8
ES	43 12.0
SLC IP	14 36 15.8
FGU EP	14 36 25.5
BCN EP D	14 36 27.0
F	36 37.1
RCD IP	14 36 36.0
TUC IP D	14 37 02.8
E	37 27.2
ES	45 00.0
ALQ IP	14 37 07.8
MAR 17	
H-14 43 58.4	
52.5N 172.6E	
h ABOUT 30KM	
SHY IP	14 44 14.9
BRW IP	14 49 03.8
E	49 13.8
COL EP	14 49 07.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	14 52 35.0
EUR EP	14 52 46.2
MAR 17	
KIP E(P)	15 13 22.5
MAR 17	
COL EP	16 07 59.0
MAR 17	
COL EP	18 04 09.0
MAR 17	
BCN IP C	19 18 39.4
IS	18 51.1
MAR 17	
BCN E(P)	19 27 31.0
MAR 17	
BOZ E(P)	19 44 50.0
MAR 17	
RCD EP	20 02 17.0
MAR 17	
H-20 36 17.5	
18.2N 148.2E	
h ABOUT 40KM	
GUA EP	20 37 41.3
ES	38 45.5
COL EP	20 46 41.0
MAR 17	
COL EP	20 37 58.0
MAR 17	
H-20 38 22.5	
04.8S 153.8E	
h ABOUT 108KM	
COL FP	20 50 29.0
IPP	50 57.6
MAR 17	
COL EP	21 31 32.0
MAR 17	
FGU EP	22 04 35.5
ES	04 55.7
MAR 17	
EUR IP	22 30 16.2
IS	30 28.7
MAR 18	
COL EP	01 03 04.0
MAR 18	
H-01 07 11.2	
54.3S 008.0E	
h ABOUT 33KM	
ALQ EP'	01 26 21.5
MAR 18	
COL EP	01 28 04.0
MAR 18	
SHY EP	02 39 45.6
ES	40 02.0

Date and Station	Phase	(GCT)
		h m s
MAR 18		
H-02 41 27.6		
29.9N 080.3E		
h ABOUT 33KM		
COL	EP	02 53 25.0
MAR 18		
AMC	EP	04 34 36.0
	ES	35 10.8
MAR 18		
COL	EP	04 42 17.0
MAR 18		
H-04 49 32.6		
40.1N 143.3E		
h ABOUT 43KM		
COL	I(P)	04 57 59.6
BOZ	EP	05 00 51.0
EUR	EP	05 00 59.0
ALQ	I(P)	05 01 50.4
MAR 18		
COL	EP	04 49 43.0
MAR 18		
COL	EP	04 55 49.0
MAR 18		
H-04 58 31.3		
52.6N 179.4E		
h ABOUT 33KM		
SHY	IP	04 59 20.8
	I	59 52.8
COL	E(P)	05 03 13.0
MAR 18		
H-06 22 10.3		
19.9S 176.0W		
h ABOUT 219KM		
KIP	IP	06 30 03.4
	ES	36 26.0
	E	37 47.0
	E	39 46.0
	EL	41 04.0
HON	IP	06 30 03.5
GUA	EP	06 30 50.2
	E	31 45.0
BCN	IP C	06 33 58.0
	I>P	34 50.5
TUC	IP C	06 34 03.8
	E>P	34 57.7
	ES	44 00.0
FUR	IP	06 34 03.5
	I>P	34 57.5
SLC	EP	06 34 21.5
SIT	E(P)	06 34 17.0
ALQ	IP	06 34 25.8
	I	35 22.4
FGU	FP	06 34 29.5
COL	IP	06 34 32.0
	I>P	35 23.5
BUT	EP	06 34 32.3
BOZ	EP	06 34 34.0
	E	34 53.0
	E>P	35 29.0
RCD	EP	06 34 55.0
	E	35 52.0
MAR 18		
AMC	IP	06 30 40.2
	IS	30 56.2
MAR 18		
COL	EP	06 44 37.0
MAR 18		
TUC	E(P)	07 00 35.8
FUR	E(P)	07 00 43.7
MAR 18		
EUR	E(P)	07 03 50.5
MAR 18		
AMC	IP	07 55 57.2
	IS	56 25.3
MAR 18		
COL	EP	08 39 11.0
MAR 18		
COL	EP	08 46 34.0
MAR 18		
COL	EP	08 58 51.0
MAR 18		
BOZ	EP	09 29 37.9
MAR 18		
BOZ	E(P)	09 41 51.0
MAR 18		
COL	EP	10 20 23.0
MAR 18		
COL	EP	10 25 55.0
MAR 18		
BOZ	E(P)	11 43 33.0
MAR 18		
H-11 46 38.9		
55.8S 027.1W		
h ABOUT 33KM		
COL	EP'	12 06 18.0
	I	06 26.1
BRW	EP'	12 06 34.3
MAR 18		
BOZ	EP	12 14 22.0
MAR 18		
H-12 40 49.3		
55.8S 026.7W		
h ABOUT 92KM		
ALQ	EP'	12 59 18.5
EUR	EP'	12 59 36.8
COL	EP'	13 00 23.0
	I	00 30.2
BRW	IP'	13 00 27.2
	I	00 38.5
	I	00 52.6
MAR 18		
BOZ	EP	12 43 28.0
MAR 18		
COL	EP	12 58 37.0
MAR 18		
EUR	IP	13 09 37.3
ALQ	I(P)	13 10 06.7
MAR 18		
BOZ	EP	13 25 25.0
MAR 18		
COL	EP	13 44 30.0
BOZ	EP	13 46 36.0
MAR 18		
EUR	IP	14 23 35.8
MAR 18		
AMC	EP	14 28 25.8
	IS	29 28.8
MAR 18		
ALQ	I(P)	16 12 45.4
MAR 18		
BCN	IP C	16 14 46.5
	ES	14 47.5
MAR 18		
H-16 15 56.1		
17.7S 178.9W		
h ABOUT 507KM		
HON	EP	16 23 18.1
KIP	IP	16 23 19.0
GUA	IP	16 23 45.6
BCN	EP D	16 27 18.2
EUR	IP D	16 27 22.8
	EPP	30 37.0
TUC	IP D	16 27 24.8
SLC	EP	16 27 39.5
COL	EP	16 27 40.0
BUT	EP	16 27 48.4
BOZ	IP D	16 27 50.9
	E(>P)	29 46.0
BRW	EP	16 28 01.0
MAR 18		
H-16 31 02.2		
36.9N 070.7E		
h ABOUT 200KM		
BRW	EP	16 41 35.2
COL	IP	16 42 18.0
MAR 18		
H-16 49 59.0		
59.7N 155.9W		
h ABOUT 33KM		
COL	FP	16 51 34.0
BOZ	EP	16 56 01.5
MAR 18		
AMC	IP	16 50 04.7
	IS	50 15.2
MAR 18		
BOZ	EP	17 59 15.0
MAR 18		
H-18 35 29.3		
52.7N 156.5E		
h ABOUT 162KM		
COL	FP	18 41 26.0
BOZ	IP	18 44 56.9
EUR	IP	18 45 10.5
MAR 18		
COL	EP	19 11 30.0
EUR	IP	19 13 27.9
MAR 18		
COL	EP	19 33 57.0
BRW	EP	19 33 59.2
MAR 18		
EUR	IP	20 06 19.7
	EL	06 42.2
MAR 18		
COL	EP	20 26 03.0
MAR 18		
COL	EP	20 28 48.0
MAR 18		
H-20 43 53.3		
52.0N 175.1E		
h ABOUT 24KM		
SHY	IP	20 44 10.9
	I	44 32.4
COL	EP	20 48 56.0
MAR 18		
KIP	EP	21 26 06.9

Date and Station	Phase (GCT)
	h m s
MAR 18	
TUC EP	21 56 52.8
MAR 18	
FGU EP	22 15 34.5
ES	15 54.0
MAR 18	
ALQ IP	22 25 11.6
MAR 18	
BCN E(P)	22 46 11.5
EL	46 47.0
MAR 18	
BCN EP	22 52 41.4
IL	53 07.9
MAR 19	
FGU IP	01 01 41.5
MAR 19	
COL EP	01 12 57.0
EUR EP	01 16 29.4
MAR 19	
H-02 55 25.8	
51.7N 179.7E	
h ABOUT 60KM	
AMC EP	02 55 37.6
I	55 58.1
COL EP	03 00 08.7
MAR 19	
BHP IP C	03 00 48.5
IS	00 57.5
MAR 19	
COL EP	03 46 23.0
MAR 19	
BOZ E(P)	04 36 18.0
MAR 19	
H-05 14 07.0	
50.5N 176.6E	
h ABOUT 33KM	
AMC IP	05 14 37.8
IS	14 59.8
COL IP	05 19 13.6
EUR IP	05 22 40.4
TUC E(P)	05 23 38.7
MAR 19	
H-05 18 02.2	
50.4N 176.9E	
h ABOUT 33KM	
AMC EP	05 18 31.8
EUR EP	05 26 34.0
MAR 19	
H-05 27 56.9	
51.4N 174.8E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
COL EP	05 33 04.0
BRW EP	05 33 06.6
BOZ EP	05 36 27.0
E	36 36.0
EUR IP	05 36 37.3
MAR 19	
H-05 39 40.2	
51.6N 174.6E	
h ABOUT 40KM	
COL EP	05 44 46.0
BRW E(P)	05 44 48.0
BOZ EP	05 48 10.0
E	48 22.0
EUR IP	05 48 19.8
MAR 19	
H-06 23 31.5	
51.8N 175.2W	
h ABOUT 45KM	
AMC EP	06 24 24.9
E	25 10.9
COL E(P)	06 27 54.0
BRW E(P)	06 28 17.9
EUR EP	06 31 22.6
MAR 19	
AMC EP	06 54 27.0
IS	54 51.9
MAR 19	
H-06 54 40.1	
52.2N 174.6W	
h ABOUT 45KM	
COL EP	06 58 57.0
EUR EP	07 02 26.9
MAR 19	
BRW EP	06 59 00.0
MAR 19	
COL EP	07 13 50.0
MAR 19	
H-07 35 21.7	
52.0N 174.9E	
h ABOUT 35KM	
SHY IP	07 35 41.4
AMC EP	07 36 07.0
I	36 19.0
COL IP	07 40 24.7
BRW IP	07 40 26.2
I	40 38.5
EPCP	44 15.2
BOZ EP	07 43 49.5
E•P	43 59.0

Date and Station	Phase (GCT)
	h m s
EUR IP	07 43 59.9
I•P	44 09.9
IPCP	48 28.0
TUC E(P)	07 44 58.8
ALQ E(P)	07 45 04.6
MAR 19	
COL IP	08 03 57.0
I	05 14.4
BOZ EP	08 05 55.0
MAR 19	
COL E(P)	10 14 12.0
MAR 19	
H-11 52 55.8	
40.8N 143.0E	
h ABOUT 25KM	
BRW I(P)	12 00 50.0
COL EP	12 01 13.0
EUR IP	12 04 22.9
RCD EP	12 04 46.0
E	04 54.0
TUC E(P)	12 05 05.6
ALQ E(P)	12 05 12.1
MAR 19	
COL EP	11 56 21.0
MAR 19	
BOZ EP	12 03 41.0
E	04 14.0
MAR 19	
TUC E(P)	12 27 14.0
E	28 25.5
MAR 19	
H-12 57 11.6	
14.9S 173.3W	
h ABOUT 33KM	
TUC E(P)	13 08 58.0
COL EP	13 09 29.0
MAR 19	
BOZ E(P)	13 02 40.0
MAR 19	
COL IP	13 25 27.2
BOZ EP	13 30 02.0
EUR EP	13 30 28.2
MAR 19	
COL EP	13 58 49.0
MAR 19	
COL EP	14 36 10.0
MAR 19	
COL EP	14 45 40.8

Date and Station	Phase (GCT)
	h m s
MAR 19	
H-15 34 51.5	
27.1S 176.4W	
h ABOUT 33KM	
TUC E(P)	15 47 30.0
EUR EP	15 47 37.0
BOZ E(P)	15 48 02.0
MAR 19	
BOZ IP	15 42 37.0
IL	42 48.9
BUT EP	15 42 49.9
IL	43 11.4
MAR 19	
BOZ IP	15 54 31.1
IL	54 43.0
BUT EP	15 54 41.4
IL	55 05.4
MAR 19	
SHY IP	16 11 05.3
IS	11 12.8
BRW E(P)	16 14 53.5
MAR 19	
H-16 20 51.4	
02.0S 119.8E	
h ABOUT 46KM	
KIP E(P)	16 33 22.4
BRW I(P)	16 33 45.2
EPP	37 18.6
COL EP	16 34 00.0
EUR IP'	16 39 33.2
BOZ EP'	16 39 33.5
FPP	40 37.5
BCN EP'	16 39 35.0
I	39 40.5
RCD EP'	16 39 44.5
ALQ IP'	16 39 50.5
MAR 19	
SHY EP	16 55 57.1
FS	56 17.4
MAR 19	
COL EP	17 00 50.0
MAR 19	
H-17 37 18.6	
19.7S 178.7W	
h ABOUT 617KM	
KIP IP	17 44 46.8
BCN IP C	17 48 34.8
EUR IP C	17 48 42.2
GCA IP	17 48 51.3

Date and Station	Phase (GCT)
	h m s
COL IP	17 49 02.3
ALQ EP	17 49 02.8
BOZ IP C	17 49 09.9
MAR 19	
COL EP	17 51 15.0
MAR 19	
COL EP	17 58 42.0
MAR 19	
SHY IP	18 03 32.0
IS	03 53.7
MAR 19	
BUT IP	18 47 03.1
MAR 19	
BRW E(P)	21 55 55.0
MAR 19	
FGU EP	22 07 57.0
ES	08 16.7
MAR 19	
COL EP	22 41 24.0
MAR 19	
H-22 58 34.9	
.0N 123.4E	
h ABOUT 173KM	
HON EP	23 10 25.8
KIP IP	23 10 25.9
BRW IP	23 11 02.0
EpP	11 42.6
COL IP	23 11 12.3
BOZ EP'	23 16 55.0
EPP	17 44.0
EUR IP'	23 16 55.4
FGU EP'	23 17 02.5
TUC EP'	23 17 08.1
ALQ EP'	23 17 12.1
CSC EP'	23 17 46.8
MAR 19	
H-23 32 58.0	
20.1S 176.4W	
h ABOUT 219KM	
EUR I(P)	23 44 54.7
TUC EP	23 44 53.8
ALQ I(P)	23 45 15.6
COL EP	23 45 22.0
BOZ EP	23 45 24.0
MAR 19	
COL I(P)	23 46 29.4

Date and Station	Phase (GCT)
	h m s
MAR 20	
SHY IP	00 49 57.2
IS	50 20.5
MAR 20	
COL EP	01 07 11.0
MAR 20	
H-01 24 05.0	
52.6N 172.1E	
h ABOUT 33KM	
SHY IP	01 24 26.4
ES	24 41.0
COL IP	01 29 14.2
BOZ EP	01 32 43.9
EUR IP	01 32 55.3
RCD EP	01 33 26.5
TUC E(P)	01 33 53.6
MAR 20	
KIP E(P)	01 28 57.6
MAR 20	
EUR EP	02 17 54.5
MAR 20	
SIT IP	02 32 57.0
MAR 20	
H-06 31 17.6	
34.7N 138.0E	
h ABOUT 119KM	
BRW EP	06 40 00.7
COL EP	06 40 20.0
BOZ IP	06 43 07.0
EUR IP	06 43 12.6
MAR 20	
H-06 53 11.0	
13.2N 143.6E	
h ABOUT 148KM	
GUA IP	06 53 38.9
I(S)	53 56.9
MAR 20	
H-07 49 27.9	
49.8N 179.5E	
h ABOUT 33KM	
AMC EP	07 49 55.6
I	50 02.1
COL EP	07 54 27.5
BOZ EP	07 57 41.0
MAR 20	
COL EP	08 12 33.0
MAR 20	
BOZ IP	08 45 07.2
E	45 14.0

Date and Station	Phase (GCT)
	h m s
MAR 20	
COL IP	08 47 58.2
BRW E(P)	08 48 28.0
MAR 20	
BOZ EP	09 50 31.0
MAR 20	
H-09 53 27.8	
51.7N 173.2E	
h ABOUT 33KM	
BRW EP	09 58 38.0
COL EP	09 58 39.0
EUR EP	10 02 15.5
MAR 20	
TUC E(P)	10 24 00.5
MAR 20	
BOZ EP	10 40 43.0
MAR 20	
AMC IP	10 47 41.9
IS	47 47.4
MAR 20	
AMC IP	11 04 23.9
IS	04 34.9
MAR 20	
EUR EP	11 12 36.0
COL EP	11 13 37.2
MAR 20	
H-11 49 01.0	
52.0N 176.2E	
h ABOUT 33KM	
SHY IP	11 49 25.7
IS	49 44.2
AMC EP	11 49 33.0
I	50 00.9
EUR EP	11 57 32.6
MAR 20	
BOZ EP	12 43 38.0
MAR 20	
BOZ EP	13 01 31.0
MAR 20	
H-13 02 28.6	
19.0S 069.6W	
h ABOUT 64KM	
ALQ E(P)	13 12 58.0
BCN E(P)	13 13 31.5
EsP	13 54.3
RCD EP	13 13 35.0
EpP	13 50.5
EUR EP	13 13 51.6

Date and Station	Phase (GCT)
	h m s
BOZ EP	13 14 04.0
EpP	14 20.0
EsP	14 27.0
MAR 20	
BOZ EP	14 14 13.0
MAR 20	
ALQ E(P)	14 37 34.5
MAR 20	
COL IP	16 06 42.0
MAR 20	
AMC IP	16 07 18.3
IS	07 29.8
MAR 20	
H-16 28 12.9	
15.3N 094.2W	
h ABOUT 33KM	
ALQ EP	16 33 11.0
TUC E(P)	16 33 14.0
EUR E(P)	16 34 26.7
MAR 20	
BOZ EP	17 04 23.0
MAR 20	
BCN IP C	17 06 41.3
IS	06 59.0
MAR 20	
BOZ EP	17 16 18.0
MAR 20	
COL IP	17 29 44.4
MAR 20	
BOZ EP	18 09 51.5
MAR 20	
BOZ EP	18 11 05.0
MAR 20	
BOZ EP	18 12 19.0
MAR 20	
H-19 20 03.5	
01.4S 126.4E	
h ABOUT 33KM	
BRW EP	19 32 48.5
MAR 20	
BRW E(P)	19 30 25.5
MAR 20	
COL EP	20 46 26.0
MAR 20	
H-20 49 15.3	
02.0S 119.5E	
h ABOUT 71KM	
BRW EP	21 02 08.0
EUR EP'	21 07 54.0
TUC EP'	21 08 08.8

Date and Station	Phase (GCT)
	h m s
MAR 20	
BOZ E(P)	22 01 16.0
E	01 26.0
MAR 20	
TUC EP	22 26 28.3
ES	26 48.5
MAR 20	
COL EP	23 41 46.0
MAR 21	
SHY IP	00 19 49.9
E(S)	19 56.0
MAR 21	
GCA EP	00 25 29.4
MAR 21	
H-01 20 46.0	
50.1N 178.3E	
h ABOUT 21KM	
AMC IP	01 21 10.8
I	21 25.8
SHY EP	01 21 45.5
E	22 24.0
COL IP	01 25 50.3
BRW IP	01 26 01.4
BOZ IP D	01 29 07.0
I	29 09.8
I	29 18.5
EUR IP	01 29 13.8
IpP	29 23.3
BCN EP	01 29 36.0
IpP	29 45.5
TUC EP	01 30 12.2
EpP	30 21.5
ALQ I(P)	01 30 19.6
MAR 21	
H-01 43 58.8	
44.7N 147.1E	
h ABOUT 135KM	
BRW EP	01 51 00.3
COL IP	01 51 24.2
BOZ EP	01 54 34.8
EUR IP	01 54 44.6
EpP	55 13.4
BCN EP	01 55 03.4
EpP	55 32.0
TUC E(P)	01 55 31.3
EpP	56 01.0
ALQ I(P)	01 55 36.2
MAR 21	
H-02 52 11.7	
53.0N 171.2E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
SHY EP	02 52 40.1
IS	53 00.3
COL EP	02 57 22.0
MAR 21	
AMC EP	03 13 22.0
ES	13 40.0
COL IP	03 16 57.1
MAR 21	
BOZ EP	05 04 46.5
MAR 21	
KIP E(P)	05 38 02.5
MAR 21	
H-07 14 55.4	
00.2N 123.4E	
h ABOUT 241KM	
BRW E(P)	07 27 16.0
MAR 21	
H-07 36 05.0	
51.1N 173.1E	
h ABOUT 33KM	
COL EP	07 41 22.0
FUR IP	07 44 53.0
IpP	45 02.0
MAR 21	
COL EP	07 54 49.0
MAR 21	
AMC IP	08 44 50.4
IS	45 08.4
MAR 21	
H-09 42 41.3	
11.7N 086.4W	
h ABOUT 36KM	
BHP IP	09 44 28.0
SJG IP	09 47 21.2
I	47 34.3
EL	51 20.0
CSC EP	09 47 43.0
WSC EP	09 48 36.0
ALQ IP	09 48 44.0
TUC EP	09 48 51.9
EPCP	51 50.3
EpPCP	52 00.0
GCA EP	09 49 24.0
BCN EP C	09 49 34.5
EsP	49 47.4
IPCP	52 04.4
EpPCP	52 13.5
RCD EP	09 49 35.0
E	51 03.0
FGU IP	09 49 36.0

Date and Station	Phase (GCT)
	h m s
SLC EP	09 49 46.0
EPCP	52 07.1
EUR IP	09 49 59.0
BOZ EP	09 50 14.0
I	50 24.0
E	51 52.0
BUT EP	09 50 20.5
COL IP	09 53 33.1
MAR 21	
H-11 08 16.2	
01.5S 126.5E	
h ABOUT 33KM	
GUA IP	11 13 26.0
IS	17 27.0
SHY EP	11 19 10.2
KIP EP	11 20 08.7
I	20 21.7
HON EP	11 20 09.2
I	20 21.0
BRW EP D	11 21 01.0
I	21 13.0
IPP	24 32.3
E	28 08.7
ES	31 38.5
EPKKP	39 02.4
FP'P'	47 08.0
COL EP	11 21 11.3
E	21 21.4
IPP	24 51.5
E	29 33.3
BUT E(P)	11 23 11.0
EP'	26 52.0
E	38 10.0
EUR I(P)	11 20 09.0
IP'	26 51.0
EPP	27 40.0
EPPP	30 08.0
I	32 38.0
EPKKP	37 56.0
IPKKP	38 05.5
E	40 57.5
BOZ E(P)	11 23 18.0
EP'	26 51.0
BCN E(P)	11 23 22.0
EP'	26 55.0
EPP	27 08.0
FGU FP'	11 26 58.8
RCD EP'	11 27 02.5
E	27 13.0
EPKKP	37 20.0
GCA EP'	11 27 02.5

Date and Station	Phase (GCT)
	h m s
TUC EP'	11 27 02.7
E	27 13.6
ESKS	34 10.0
EPKKP	37 25.0
WSC FP'	11 27 38.5
EPP	30 26.1
CSC EP'	11 27 41.0
BHP IP'	11 28 05.0
I	28 22.0
SJG FP'	11 28 15.0
E	28 27.3
E	32 42.6
MAR 21	
H-12 25 12.4	
01.4S 126.5E	
h ABOUT 111KM	
KIP EP	12 36 57.9
BRW EP	12 37 45.6
FUR EP'	12 43 39.0
ALQ IP'	12 43 45.6
MAR 21	
H-12 41 47.5	
36.2N 136.6E	
h ABOUT 270KM	
GUA EP	12 46 38.3
BRW IP	12 50 06.3
COL IP	12 50 29.5
BUT EP	12 53 13.5
BOZ IP D	12 53 17.0
SLC IP	12 53 34.0
BCN IP D	12 53 41.0
FGU IP	12 53 41.0
RCD IP D	12 53 46.0
TUC EP	12 54 03.5
ALQ FP	12 54 09.4
MAR 21	
EUR IP	12 52 47.5
I	52 49.2
IS	53 21.5
MAR 21	
COL IP	12 52 54.2
MAR 21	
H-13 40 32.7	
06.4N 124.1E	
h ABOUT 63KM	
BRW E(P)	13 52 40.0

Date and Station	Phase	(GCT)
		h m s
MAR 21		
AMC	IP	13 57 55.0
	IS	58 01.4
MAR 21		
BOZ	E(P)	14 05 27.0
	E	05 49.9
MAR 21		
AMC	EP	14 19 44.0
	IS	19 52.0
SHY	EP	14 20 21.9
	ES	20 56.2
MAR 21		
H-14 29 08.7		
45.1N 146.6E		
h ABOUT 33KM		
COL	IP	14 36 46.3
BOZ	EP	14 39 56.0
EUR	IP	14 40 06.2
BCN	EP	14 40 24.7
TUC	E(P)	14 40 52.7
MAR 21		
AMC	EP	14 37 02.5
	IS	37 41.5
MAR 21		
SJG	IP	15 04 31.0
	EL	05 47.0
MAR 21		
H-15 09 14.8		
40.4N 078.4E		
h ABOUT 33KM		
BRW	EP	15 19 33.0
BOZ	EP	15 22 30.8
	E	22 38.9
MAR 21		
COL	EP	15 19 55.5
MAR 21		
COL	EP	17 53 32.5
MAR 21		
BOZ	EP	18 00 41.0
MAR 21		
H-18 04 19.6		
50.4N 178.6E		
h ABOUT 30KM		
AMC	EP	18 04 39.0
	ES	04 57.0
COL	EP	18 09 20.0
BOZ	EP	18 12 38.0
	E	12 46.0
EUR	EP	18 12 43.8

Date and Station	Phase	(GCT)
		h m s
MAR 21		
H-19 02 32.9		
45.4N 150.6E		
h ABOUT 14KM		
BRW	IP	19 09 35.1
COL	IP	19 09 55.0
BUT	EP	19 13 02.5
BOZ	EP	19 13 08.1
EUR	IP C	19 13 17.5
BCN	EP C	19 13 36.0
	EpP	13 50.0
RCD	EP	19 13 43.0
	E	13 50.0
TUC	EP	19 14 05.9
ALQ	IP	19 14 10.7
MAR 21		
COL	EP	20 38 28.0
BOZ	E(P)	20 40 19.0
MAR 21		
COL	EP	21 38 11.0
MAR 21		
SJG	IP	21 54 04.0
	IL	54 29.5
MAR 21		
TUC	EP	21 57 30.2
MAR 21		
SJG	IP	21 57 34.5
	IL	57 59.5
MAR 21		
TUC	E(P)	22 20 31.0
	E	21 12.7
MAR 21		
BCN	E(P)	22 46 39.0
	EL	47 09.5
MAR 21		
COL	EP	22 54 54.0
MAR 21		
H-22 56 39.7		
39.5N 110.3W		
h ABOUT 0KM		
FGU	IP	22 57 09.5
	IL	57 24.0
SLC	EP	22 57 11.9
GCA	I(P)	22 57 27.2
	IL	58 02.3
EUR	EP	22 57 50.3
ALQ	IP	22 58 03.3
BCN	E	22 58 09.0
	EL	59 18.5

Date and Station	Phase	(GCT)
		h m s
BOZ	EP	22 58 16.5
	E	58 36.0
MAR 21		
SHY	EP	23 37 55.8
	ES	38 17.5
AMC	EP	23 38 04.7
	ES	38 32.0
MAR 21		
SHY	IP	23 38 39.1
	E	39 00.5
MAR 21		
COL	EP	23 43 13.0
MAR 22		
H-00 17 27.4		
11.9N 087.9W		
h ABOUT 33KM		
TUC	E(P)	00 23 29.0
MAR 22		
SHY	IP	00 24 37.4
	E	24 52.0
MAR 22		
EUR	EP	02 16 08.9
MAR 22		
H-02 44 47.5		
15.3S 173.4W		
h ABOUT 51KM		
HON	IP	02 52 14.3
KIP	EP	02 52 14.7
	E	58 40.0
	EL	03 01 20.0
GUA	E(P)	02 53 43.7
SHY	EP	02 55 47.8
UKI	E(P)	02 56 06.5
BCN	EP D	02 56 27.0
EUR	EP D	02 56 32.7
TUC	IP D	02 56 33.1
	E	03 06 20.0
GCA	IP	02 56 43.8
SIT	E(P)	02 56 47.0
ALQ	IP	02 56 57.3
FGU	IP	02 57 01.2
BUT	IP D	02 57 03.4
	E	03 07 13.4
COL	IP	02 57 04.6
BOZ	IP D	02 57 05.5
	I	57 08.5
	I	57 18.0
	IS	03 07 20.0
	I	08 08.0

Date and Station	Phase	(GCT)
		h m s
COL	IP	02 57 06.0
	I	57 16.0
	FS	03 07 18.0
RCD	EP	02 57 29.0
	E	03 08 12.0
BRW	IP	02 57 30.5
SJG	EP'	03 03 06.0
MAR 22		
COL	EP	02 50 47.0
COL	EP	03 04 52.0
MAR 22		
H-03 05 33.3		
23.8S 066.7W		
h ABOUT 176KM		
SJG	EP	03 13 05.3
	ES	19 06.8
CSC	EP	03 15 16.0
ALQ	IP	03 16 25.9
TUC	IP D	03 16 27.7
GCA	IP	03 16 52.0
BCN	IP D	03 16 57.5
RCD	IP D	03 16 59.5
	E	20 24.0
FGU	IP	03 17 02.0
SLC	IP	03 17 07.3
EUR	IP	03 17 14.7
BOZ	IP D	03 17 25.5
BUT	IP	03 17 30.5
COL	IP	03 19 33.8
	EP'	23 39.0
BRW	IP'	03 23 49.3
GUA	EP'	03 24 59.5
MAR 22		
SHY	IP	03 10 26.7
	ES	10 42.0
BOZ	EP	03 15 35.0
MAR 22		
ALQ	E(P)	03 44 26.4
MAR 22		
BRW	E(P)	04 17 42.0
MAR 22		
ALQ	E(P)	04 42 22.4
TUC	E(P)	04 42 43.4
MAR 22		
COL	EP	07 43 19.0

Date and Station	Phase (GCT)
	h m s
MAR 22	
H-07 53 07.4	
13.9N 090.9W	
h ABOUT 60KM	
ALQ E(P)	07 58 30.5
TUC E(P)	07 58 36.0
BCN EP	07 59 19.0
FGU EP	07 59 25.0
EUR IP	07 59 45.8
BOZ E(P)	08 00 05.0
COL EP	08 03 33.0
MAR 22	
EUR IP	08 37 49.9
MAR 22	
H-08 44 24.5	
50.0N 179.2E	
h ABOUT 13KM	
AMC IP	08 44 50.4
IS	45 08.4
BRW EP	08 49 41.2
BOZ EP	08 52 43.0
MAR 22	
H-09 46 07.7	
6.6N 072.8W	
h ABOUT 187KM	
BHP I(P)	09 47 41.0
IS	49 04.0
MAR 22	
SJG EP	09 49 08.3
ES	51 23.5
TUC E(P)	09 53 55.9
RCD EP	09 54 12.5
BCN EP	09 54 34.0
E	54 39.0
EUR EP	09 54 51.2
BOZ EP	09 54 55.0
BRW E(P)	09 58 09.6
MAR 22	
H-09 53 28.1	
1.5S 126.3E	
h ABOUT 33KM	
BRW EP	10 06 13.0
MAR 22	
ALQ E(P)	10 53 43.2
MAR 22	
H-10 58 20.1	
56.5N 152.8W	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
BRW E(P)	11 01 49.5
MAR 22	
H-11 11 13.7	
18.1S 178.5W	
h ABOUT 557KM	
BCN EP	11 22 31.5
TUC EP	11 22 37.3
MAR 22	
COL EP	11 24 53.0
BOZ EP	11 28 04.0
MAR 22	
H-11 31 16.3	
21.7N 142.9E	
h ABOUT 309KM	
GUA IP	11 33 15.0
BRW IP	11 40 53.8
COL EP	11 41 04.0
BUT EP	11 43 14.5
EUR IP	11 43 17.1
BOZ IP	11 43 18.5
BCN EP	11 43 28.0
RCD EP	11 43 46.7
MAR 22	
H-13 48 04.6	
14.4S 173.0W	
h ABOUT 33KM	
TUC EP	13 59 47.4
COL IP	14 00 18.7
BOZ E(P)	14 00 20.0
MAR 22	
H-14 36 11.9	
52.1N 174.1E	
h ABOUT 57KM	
AMC EP	14 37 02.5
COL EP	14 41 14.0
BRW EP	14 41 14.9
BOZ EP	14 44 40.5
EUR IP	14 44 51.6
MAR 22	
H-15 11 01.5	
8.8N 039.7W	
h ABOUT 28KM	
TUC E(P)	15 22 08.8
BOZ EP	15 22 19.0
E	22 20.5
EUR EP	15 22 43.0

Date and Station	Phase (GCT)
	h m s
COL EP	15 23 57.0
MAR 22	
MAR 22	
COL EP	16 36 18.0
MAR 22	
ALQ I(P)	17 01 38.2
COL EP	17 07 49.0
MAR 22	
BOZ EP	17 11 20.0
MAR 22	
TUC E(P)	18 28 23.8
EUR IP	18 29 10.0
MAR 22	
COL EP	18 59 13.0
MAR 22	
H-19 33 10.5	
19.3N 155.6W	
h ABOUT 015KM	
HON EP	19 33 58.5
ES	34 29.5
KIP IP	19 33 58.8
IS	34 30.0
EUR IP	19 40 43.9
BOZ E(P)	19 41 24.0
COL EP	19 41 34.0
MAR 22	
H-20 46 16.2	
22.4S 068.1W	
h ABOUT 110KM	
ALQ IP	20 57 02.3
TUC EP	20 57 04.0
E	57 32.0
RCD EP D	20 57 38.0
E	58 06.0
FGU IP	20 57 40.4
EUR IP	20 57 53.1
BOZ EP	20 58 05.7
F	58 32.3
GUA IP'	21 05 49.0
MAR 22	
TUC EP	21 54 29.7
MAR 22	
H-22 02 23.8	
51.9N 174.9E	
h ABOUT 33KM	
SHY EP	22 02 46.0
AMC EP	22 03 09.3
IS	03 45.6

Date and Station	Phase (GCT)
	h m s
COL EP	22 07 27.0
BRW IP	22 07 29.1
E	07 51.7
BOZ IP	22 10 51.2
EUR IP	22 11 02.0
MAR 22	
SIT EP	22 02 56.4
MAR 22	
GUA EP	22 15 50.0
MAR 22	
BOZ EP	22 26 09.0
MAR 22	
GUA E(P)	22 46 40.0
MAR 22	
H-22 56 26.5	
31.9S 071.5W	
h ABOUT 46KM	
BHP IP	23 04 07.0
SJG IP C	23 05 17.0
IS	12 24.0
CSC IP	23 07 10.5
EpP	07 23.0
WAS IP	23 07 37.0
EpP	07 50.0
WSC IP	23 07 39.5
IpP	07 52.0
TUC IP D	23 07 58.2
EpP	08 11.8
ALQ IP	23 08 00.0
BCN EP	23 08 26.2
IpP	08 39.5
FGU IP	23 08 35.7
RCD IP D	23 08 38.5
EpP	08 51.0
E	18 42.0
EUR IP	23 08 44.8
EPKKP	27 12.9
EP'P'	35 17.2
FSKPP'	38 27.0
EP'P'P'	55 19.0
BOZ EP	23 08 59.2
EpP	09 13.0
ES	19 16.0
EL	25 28.0
UKI E(P)	23 09 02.5
BUT EP	23 09 03.2
E	09 45.2
COL EP	23 11 06.0
IP'	14 58.6

Date and Station	Phase	(GCT) h m s
BRW	IP'	23 15 09.4
	E	15 23.5
MAR 22		
COL	EP	23 25 11.0
BOZ	E(P)	23 29 06.0
MAR 22		
COL	EP	23 38 59.0
MAR 23		
BOZ	EP	00 02 49.0
MAR 23		
BUT	IP	00 06 21.2
BOZ	IP	00 06 23.0
MAR 23		
SHY	FP	00 12 02.6
	IS	12 23.5
MAR 23		
SHY	IP	00 38 16.1
	ES	38 37.0
AMC	FP	00 38 19.5
	IS	38 45.0
MAR 23		
COL	IP	01 20 47.6
MAR 23		
COL	EP	01 21 07.0
MAR 23		
KIP	E(P)	01 31 25.7
	I	32 16.2
MAR 23		
H-02 58 39.7		
12.3N 088.2W		
h ABOUT 33KM		
BOZ	EP	03 06 02.2
MAR 23		
KIP	EP	03 29 31.2
	F	29 36.9
HON	EP	03 29 31.6
	E	29 36.0
MAR 23		
COL	EP	03 51 46.5
MAR 23		
EUR	EP	04 18 05.5
MAR 23		
BOZ	EP	04 39 12.0
MAR 23		
H-05 30 54.4		
51.4N 177.8E		
h ABOUT 30KM		
AMC	IP	05 31 11.4
SHY	EP	05 31 35.7
	E	32 12.0
EUR	IP	05 39 21.5
TUC	E(P)	05 40 20.0
MAR 23		
COL	EP	06 28 49.0
MAR 23		
AMC	IP	06 56 21.2
	IS	56 35.7
MAR 23		
H-08 18 14.2		
51.5N 175.0E		
h ABOUT 38KM		
SHY	EP	08 18 36.1
	ES	18 54.2
COL	EP	08 23 20.5
BOZ	E(P)	08 26 42.0
EUR	IP	08 26 53.1
BCN	EP	08 27 15.5
RCD	EP	08 27 28.0
	E	27 38.0
TUC	E	08 28 02.8
MAR 23		
H-08 40 46.4		
40.5N 127.9W		
h ABOUT 33KM		
EUR	EP	08 43 01.5
BCN	E(P)	08 43 31.3
BOZ	EP	08 43 50.0
TUC	E(P)	08 44 34.5
ALQ	E(P)	08 45 00.8
RCD	FP	08 45 05.0
MAR 23		
H-08 42 43.7		
52.2N 173.4E		
h ABOUT 33KM		
SHY	IP	08 42 56.9
	ES	43 04.0
AMC	EP	08 43 39.8
COL	EP	08 47 51.0
BRW	EP	08 47 51.0
MAR 23		
SHY	EP	10 02 27.8
	E	02 44.4
MAR 23		
H-10 29 23.9		
51.3N 178.0E		
h ABOUT 48KM		
AMC	IP	10 29 38.8
SHY	IP	10 30 07.8
	ES	30 42.3
COL	IP	10 34 18.5
BRW	IP	10 34 27.0
BOZ	EP	10 37 38.0
EUR	IP	10 37 48.4
MAR 23		
BRW	E(P)	10 57 16.6
MAR 23		
H-12 44 59.6		
51.2N 177.8E		
h ABOUT 45KM		
AMC	IP	12 45 16.2
SHY	IP	12 45 43.6
	E	46 19.7
COL	EP	12 49 55.0
	I	49 56.3
BRW	IP	12 50 04.0
EUR	IP C	12 53 25.6
BOZ	EP	12 53 15.9
BCN	EP	12 53 47.6
	E	53 52.5
FGU	EP	12 53 49.0
RCD	E(P)	12 54 00.0
TUC	EP	12 54 24.0
ALQ	IP	12 54 30.5
MAR 23		
BCN	EP	12 56 03.0
MAR 23		
H-13 35 49.1		
51.3N 177.9E		
h ABOUT 49KM		
AMC	IP	13 36 05.3
	I	36 15.8
SHY	IP	13 36 33.6
	E	37 08.2
COL	IP	13 40 44.4
BRW	IP	13 40 52.5
BOZ	IP	13 44 04.9
EUR	IP C	13 44 14.5
BCN	FP	13 44 36.0
TUC	EP	13 45 12.3
ALQ	I(P)	13 45 19.4
MAR 23		
COL	IP	15 29 54.6
MAR 23		
H-15 56 58.3		
01.1N 029.3W		
h ABOUT 33KM		
EUR	IP	16 09 41.5
MAR 23		
COL	EP	16 04 28.4
MAR 23		
BCN	IP	17 12 15.5
	IS	12 22.4
EUR	E(P)	17 13 03.0
	FL	13 56.3
MAR 23		
AMC	IP	17 59 32.9
	IS	59 39.4
MAR 23		
H-18 16 08.4		
15.2S 173.5W		
h ABOUT 75KM		
KIP	EP	18 23 30.7
BCN	FP	18 27 45.0
TUC	EP	18 27 51.2
	E	28 08.5
EUR	IP	18 27 51.7
SLC	EP	18 28 10.1
ALQ	IP	18 28 15.6
FGU	IP	18 28 19.3
COL	IP	18 28 22.1
BUT	FP	18 28 22.2
BOZ	FP D	18 28 23.0
	I	28 35.0
RCD	E(P)	18 28 46.0
BRW	E(P)	18 28 47.8
MAR 23		
BOZ	IP	18 58 07.0
MAR 23		
H-19 27 17.4		
15.4S 173.2W		
h ABOUT 50KM		
EUR	EP	19 39 03.2
TUC	E(P)	19 39 03.7
SLC	E(P)	19 39 21.1
ALQ	IP	19 39 27.5
BUT	EP	19 39 31.7
COL	IP	19 39 34.6
BOZ	EP	19 39 36.0

Date and Station	Phase (GCT)
	h m s
MAR 23	
SHY IP	20 25 14.1
AMC EP	20 26 02.0
IS	26 47.2
MAR 23	
H-21 21 52.9	
11.0N 086.6W	
h ABOUT 33KM	
SJG E(P)	21 26 41.0
TUC E(P)	21 28 04.1
EUR EP	21 29 16.5
BOZ EP	21 29 30.0
COL EP	21 32 51.0
MAR 23	
BOZ EP	23 05 05.0
MAR 23	
BOZ EP	23 07 03.9
MAR 23	
H-23 54 14.7	
15.2S 173.5W	
h ABOUT 130KM	
KIP IP	24 01 32.7
EpP	02 03.1
EL	10 26.0
HON IP	24 01 33.3
AMC EP	24 04 53.1
BCN EP D	24 05 45.0
EUR IP D	24 05 50.7
TUC EP	24 05 50.9
E	06 08.8
SLC I(P)	24 06 10.1
ALQ IP	24 06 15.6
FGU I(P)	24 06 18.5
COL IP	24 06 22.9
ES	16 35.0
BRW IP	24 06 45.6
RCD E(P)	24 06 47.0
MAR 24	
H-01 08 07.8	
25.2N 067.7E	
h ABOUT 40KM	
COL EP	01 20 46.0
MAR 24	
H-01 32 03.3	
.6N 123.8E	
h ABOUT 272KM	
BRW I(P)	01 44 14.9

Date and Station	Phase (GCT)
	h m s
MAR 24	
KIP EP	01 33 42.1
HON EP	01 33 47.6
COL EP	01 40 36.0
MAR 24	
ALQ EP	01 57 46.0
TUC E(P)	01 57 56.0
MAR 24	
HON EP	02 43 57.2
KIP E(P)	02 44 00.0
I	44 03.7
MAR 24	
EUR EP	03 37 39.7
EL	38 21.0
MAR 24	
H-07 07 45.4	
56.6N 152.4W	
h ABOUT 20KM	
COL EP	07 09 51.0
BRW E(P)	07 11 13.7
E	11 27.7
EUR IP	07 13 49.0
BCN EP	07 14 17.5
RCD E(P)	07 14 21.0
TUC E(P)	07 15 00.3
MAR 24	
COL EP	07 17 25.0
MAR 24	
H-07 36 46.6	
56.6N 152.0W	
h ABOUT 20KM	
COL EP	07 38 52.5
I	38 53.0
BRW E(P)	07 40 14.3
BCN E(P)	07 43 15.2
MAR 24	
KIP E(P)	07 51 35.0
MAR 24	
KIP EP	07 51 36.3
MAR 24	
H-07 59 39.0	
16.3S 167.9E	
h ABOUT 189KM	
BCN EP	08 12 16.0
FpP	13 05.0
EUR IP	08 12 17.8
FpP	13 05.8
TUC E(P)	08 12 24.8

Date and Station	Phase (GCT)
	h m s
BOZ EP	08 12 42.5
EpP	13 31.0
E	14 40.0
SJG EP'	08 18 24.8
E	21 25.5
ALQ E(P)	08 12 43.8
MAR 24	
H-08 08 05.2	
56.6N 152.4W	
h ABOUT 30KM	
COL IP	08 10 09.2
E	12 23.0
SIT E(P)	08 10 21.0
BRW EP	08 11 33.3
I	11 42.1
EL	16 25.0
EIR EP	08 14 06.5
FGU E(P)	08 14 24.3
BCN EP	08 14 35.0
RCD EP	08 14 40.0
TUC E(P)	08 15 17.7
E	15 25.8
MAR 24	
KIP E(P)	08 20 35.7
MAR 24	
EUR EP	08 17 14.5
BCN EP	08 17 23.2
MAR 24	
SIT E(P)	08 19 06.7
MAR 24	
EUR IP	08 20 53.7
MAR 24	
KIP EP	08 51 39.6
MAR 24	
KIP EP	08 51 49.7
MAR 24	
H-09 41 30.4	
13.4S 167.1E	
h ABOUT 210KM	
COL IP	09 53 43.2
IpP	54 31.2
BRW EP	09 53 58.0
BCN EP	09 54 00.2
EpP	54 53.0
EUR IP	09 54 01.6
EpP	54 50.6
TUC E(P)	09 54 10.1
EpP	55 02.5

Date and Station	Phase (GCT)
	h m s
MAR 24	
BRW E(P)	10 03 46.6
MAR 24	
H-10 07 43.4	
20.1S 174.1W	
h ABOUT 33KM	
BCN EP	10 19 47.0
F	20 16.5
TUC E(P)	10 19 52.3
EUR IP	10 19 54.8
ALQ EP	10 20 15.4
FGU F(P)	10 20 20.2
BOZ EP	10 20 25.0
F	22 39.0
MAR 24	
H-10 13 47.8	
52.4N 171.5E	
h ABOUT 35KM	
SHY EP	10 14 13.2
ES	14 35.1
BRW IP	10 18 58.0
I	19 07.7
COL IP	10 19 01.8
I	19 12.6
EUR IP	10 22 40.7
RCD F(P)	10 23 16.0
MAR 24	
H-10 22 41.6	
19.7S 174.4W	
h ABOUT 33KM	
EUR EP	10 34 51.5
COL EP	10 35 25.0
MAR 24	
H-11 16 50.5	
18.5S 068.5W	
h ABOUT 33KM	
EUR EP	11 28 19.0
BOZ EP	11 28 30.0
MAR 24	
H-11 17 44.7	
50.5N 178.6E	
h ABOUT 42KM	
AMC IP	11 18 03.0
IS	18 19.0
COL EP	11 22 43.0
BRW IP	11 22 55.6
EUR EP	11 26 07.5
MAR 24	
COL EP	12 19 32.0

Date and Station	Phase	(GCT)
		h m s
MAR 24		
H-12 29 18.3		
51.7N 172.5E		
h ABOUT 20KM		
SHY	EP	12 29 43.1
	E	29 59.8
AMC	IP	12 30 21.4
BRW	EP	12 34 34.5
COL	EP	12 34 36.0
EUR	IP	12 38 10.9
MAR 24		
H-12 34 42.4		
50.5N 174.9W		
h ABOUT 49KM		
AMC	EP	12 35 39.4
	ES	36 19.4
BRW	EP	12 39 38.0
BOZ	EP	12 42 25.0
EUR	EP	12 42 31.5
MAR 24		
AMC	IP	13 06 22.6
	IS	06 31.1
MAR 24		
SHY	IP	16 29 27.8
	ES	29 34.8
AMC	EP	16 30 07.5
	ES	30 45.0
MAR 24		
H-13 30 04.5		
57.8N 148.6W		
h ABOUT 13KM		
SIT	E(P)	13 31 47.0
COL	IP	13 31 50.8
BRW	IP	13 33 24.0
BOZ	EP	13 35 34.9
EUR	IP	13 35 56.1
RCD	EP	13 36 24.0
MAR 24		
EUR	IP	13 39 10.8
MAR 24		
EUR	EP	14 27 40.8
MAR 24		
EUR	EP	15 28 38.8
MAR 24		
COL	EP	16 34 19.0
MAR 24		
AMC	EP	16 36 06.8
	ES	36 27.5

Date and Station	Phase	(GCT)
		h m s
SHY	EP	16 36 07.4
	ES	36 29.5
MAR 24		
H-17 31 10.4		
21.9S 169.9E		
h ABOUT 41KM		
COL	EP	17 44 16.0
MAR 24		
EUR	EP	17 45 45.1
MAR 24		
H-18 23 59.9		
25.4S 177.3W		
h ABOUT 143KM		
BCN	EP	18 36 21.5
TUC	EP	18 36 24.7
EUR	IP	18 36 27.2
ALQ	I(P)	18 36 45.4
BOZ	EP	18 36 55.8
	EPP	37 29.0
COL	EP	18 36 56.0
MAR 24		
COL	EP	18 24 39.0
MAR 24		
FGU	IP	18 28 19.3
MAR 24		
COL	EP	18 30 03.0
MAR 24		
H-18 35 20.7		
23.6S 115.3W		
h ABOUT 33KM		
TUC	E(P)	18 45 02.4
BCN	EP	18 45 23.5
EUR	IP	18 45 44.7
RCD	E(P)	18 46 20.0
COL	E(P)	18 48 33.4
MAR 24		
TUC	EP	19 03 04.1
	E(S)	03 12.8
MAR 24		
BCN	IP C	19 18 48.3
	IS	18 50.4
MAR 24		
RCD	EP	19 59 09.5
	ES	59 12.5
MAR 24		
AMC	IP	21 02 48.2
	ES	03 08.5
SHY	IP	21 02 50.4
	IS	03 11.1

Date and Station	Phase	(GCT)
		h m s
COL	EP	21 07 16.0
MAR 24		
BCN	IP C	21 15 37.8
	IS	15 40.4
MAR 24		
H-22 42 09.6		
08.4N 126.6E		
h ABOUT 51KM		
BRW	IP	22 54 04.7
	I	54 15.6
COL	EP	22 54 18.0
BOZ	EP'	23 00 21.0
EUR	EP'	23 00 30.6
MAR 24		
COL	EP	23 20 30.0
MAR 24		
BOZ	E(P)	23 52 16.0
MAR 25		
BOZ	E(P)	01 49 13.0
MAR 25		
HON	EP	01 50 22.9
MAR 25		
EUR	EP	01 54 37.1
	EL	55 31.1
MAR 25		
HON	E(P)	02 29 15.5
MAR 25		
H-03 23 21.4		
46.4N 152.1E		
h ABOUT 35KM		
BRW	E(P)	03 30 20.9
COL	EP	03 30 28.0
EUR	IP	03 33 54.0
MAR 25		
COL	EP	03 39 11.0
MAR 25		
COL	EP	03 46 28.0
MAR 25		
H-05 21 17.4		
52.9N 171.9E		
h ABOUT 15KM		
SHY	IP	05 21 41.6
	ES	21 57.0
BRW	IP	05 26 23.4
COL	E(P)	05 26 24.0
BOZ	EP	05 29 58.0
EUR	IP	05 30 10.8
TUC	E(P)	05 31 09.0
	E	31 14.5

Date and Station	Phase	(GCT)
		h m s
ALQ	E(P)	05 31 14.9
MAR 25		
BOZ	E(P)	05 48 07.0
MAR 25		
COL	EP	06 26 14.0
MAR 25		
BOZ	EP	06 42 03.0
MAR 25		
H-07 17 21.4		
14.3S 167.4E		
h ABOUT 205KM		
COL	IP	07 29 37.8
BRW	EP	07 29 53.0
	EPP	30 44.2
EUR	IP	07 29 54.9
	IPP	30 45.0
TUC	E(P)	07 30 03.7
	EPP	30 53.4
BOZ	EP	07 30 17.0
	EPP	31 08.0
MAR 25		
AMC	IP	07 21 28.4
	IS	21 54.0
MAR 25		
BOZ	EP	08 53 13.5
MAR 25		
H-08 53 13.6		
52.3N 172.6E		
h ABOUT 31KM		
SHY	IP	08 53 31.5
AMC	EP	08 54 19.2
BRW	IP	08 58 21.1
	I	58 21.8
	EPCP	09 02 05.0
COL	EP	08 58 23.0
	I	58 24.5
BOZ	EP	09 01 50.5
EUR	IP C	09 02 02.5
	IPP	02 11.0
BCN	EP	09 02 25.0
	EPP	02 33.0
RCD	IP	09 02 34.5
	E	02 44.0
TUC	EP	09 03 00.6
	EPP	03 08.6
CSC	E(P)	09 04 40.0
	EPP	04 50.0
MAR 25		
COL	IP	09 01 31.5

Date and Station	Phase (GCT)
	h m s
MAR 25	
H-09 29 55.6	
52.1N 172.6E	
h ABOUT 30KM	
SHY IP	09 30 15.1
AMC E(P)	09 31 04.0
BRW IP	09 35 04.4
COL IP	09 35 07.4
EUR IP	09 38 45.6
RCD EP	09 39 17.0
E	39 27.0
TUC E(P)	09 39 43.8
E	39 52.5
ALQ IP	09 39 48.6
MAR 25	
COL EP	11 24 22.0
BRW EP	11 24 41.2
BOZ E(P)	11 27 39.0
EUR EP	11 27 57.5
MAR 25	
H-11 50 02.7	
51.3N 174.0E	
h ABOUT 56KM	
SHY IP	11 50 26.8
IS	50 45.7
COL EP	11 55 11.5
BRW EP	11 55 12.4
EUR EP	11 58 43.7
MAR 25	
BOZ EP	12 05 43.0
MAR 25	
ALQ E(P)	12 18 32.1
MAR 25	
H-12 59 28.1	
36.4N 089.5W	
h ABOUT 18KM	
RCD E(P)	13 02 28.0
ALQ EP	13 02 45.6
IL	06 45.6
BOZ E(P)	13 03 47.0
BCN E(P)	13 04 10.0
EUR IP	13 04 15.4
COL EP	13 07 38.0
MAR 25	
COL EP	13 43 35.0

Date and Station	Phase (GCT)
	h m s
MAR 25	
H-14 30 04.4	
51.7N 177.2W	
h ABOUT 58KM	
AMC EP	14 30 39.4
COL IP	14 34 35.7
BRW EP	14 34 54.6
EUR E(P)	14 04 .5.6
MAR 25	
H-16 55 44.5	
52.8N 171.8E	
h ABOUT 24KM	
SHY IP	16 56 08.5
I	56 23.6
AMC EP	16 56 59.1
ES	57 54.8
BRW IP	17 00 50.5
COL EP	17 00 55.0
EUR EP	17 04 36.6
MAR 25	
BOZ E(P)	17 02 20.0
E	04 24.5
MAR 25	
SHY IP	17 08 34.5
IS	08 52.9
AMC EP	17 08 57.1
ES	09 25.3
MAR 25	
BRW EP	17 13 19.7
MAR 25	
H-18 02 26.6	
52.2N 171.7E	
h ABOUT 28KM	
SHY IP	18 02 52.8
IS	03 12.3
BOZ EP	18 11 09.0
EpP	11 21.0
EUR EP	18 11 20.0
EpP	11 32.5
MAR 25	
SHY IP	18 11 35.3
AMC EP	18 12 12.6
IS	12 51.4
COL EP	18 16 26.0
I	16 30.0
MAR 25	
H-18 32 50.5	
7.4S 153.9E	
h ABOUT 96KM	
COL IP	18 45 09.2

Date and Station	Phase (GCT)
	h m s
BRW EP	18 45 16.0
EUR IP	18 46 04.3
MAR 25	
AMC IP	18 37 18.1
MAR 25	
ALQ I(P)	19 39 51.3
MAR 25	
H-20 00 02.9	
55.4N 168.7W	
h ABOUT 33KM	
COL EP	20 03 21.0
BRW E(P)	20 04 09.0
EUR IP	20 07 20.5
MAR 25	
RCD IP	20 10 12.0
ES	10 14.0
MAR 25	
BOZ EP	20 24 44.9
FGU E(P)	20 24 55.0
RCD EP	20 25 45.0
MAR 25	
ALQ I(P)	20 25 21.0
MAR 25	
H-20 36 32.0	
38.1S 080.2W	
h ABOUT 33KM	
ALQ IP	20 48 22.9
EUR EP	20 49 00.2
BOZ EP	20 49 16.9
MAR 25	
H-21 05 40.7	
20.4S 174.1W	
h ABOUT 33KM	
EUR EP	21 17 51.5
ALQ E(P)	21 18 12.2
BOZ E(P)	21 18 21.0
COL EP	21 18 25.0
MAR 25	
BHP IP	22 10 18.5
IS	10 46.0
MAR 25	
RCD EP	23 13 42.0
MAR 25	
H-23 36 29.8	
15.1S 173.4W	
h ABOUT 33KM	
EUR E(P)	23 48 17.0

Date and Station	Phase (GCT)
	h m s
TUC F(P)	23 48 17.3
ALQ I(P)	23 48 41.9
COL IP	23 48 47.0
MAR 25	
BOZ EP	23 39 28.0
MAR 26	
H-00 20 56.3	
20.0S 178.1W	
h ABOUT 567KM	
BCN EP	00 32 17.5
EpP	34 25.0
EUR IP	00 32 22.8
IPCP	32 26.3
FpP	34 27.8
TUC IP D	00 32 23.0
EpP	34 26.5
ALQ IP	00 32 43.6
COL IP D	00 32 44.2
EpP	34 52.2
BOZ IP	00 32 50.0
BRW IP	00 33 05.7
MAR 26	
AMC IP	00 26 02.2
MAR 26	
TUC E(P)	00 50 42.0
MAR 26	
H-00 51 24.5	
39.5N 110.3W	
h ABOUT 0KM	
FGU IP	00 51 55.2
IS	52 19.3
SLC EP	00 51 57.2
ES	52 21.6
GCA IP	00 52 11.7
IL	52 48.0
EUR EP	00 52 36.3
ALQ IP	00 52 48.3
BCN FL	00 54 01.5
MAP 26	
KIP FP	01 30 20.0
MAR 26	
H-01 41 57.4	
59.6N 145.1W	
h ABOUT 33KM	
COL IP	01 43 18.3
BRW EP	01 45 02.0
BOZ EP	01 47 13.0

Date and Station	Phase	(GCT)
		h m s
EUR	EP	01 47 41.7
MAR 26		
KIP	EP	01 45 50.0
MAR 26		
KIP	E(P)	02 02 16.4
MAR 26		
H-02 20 01.6		
45.5N 151.4E		
h ABOUT 33KM		
BRW	EP	02 26 58.1
COL	EP	02 27 17.0
BOZ	EP	02 30 30.9
EUR	EP	02 30 40.0
	E	30 53.0
TUC	E(P)	02 31 25.2
MAR 26		
KIP	E(P)	02 30 30.6
MAR 26		
BRW	EP	03 00 52.5
	E	01 03.4
BOZ	EP	03 03 15.0
EUR	IP	03 03 24.3
MAR 26		
COL	IP	03 16 14.8
MAR 26		
COL	E(P)	04 53 06.4
MAR 26		
BOZ	EP	05 17 34.5
MAR 26		
H-06 17 17.9		
28.5N 130.9E		
h ABOUT 33KM		
BRW	IP	06 27 06.5
	E	27 14.8
COL	EP	06 27 29.3
BOZ	E(P)	06 30 00.0
EUR	E(P)	06 30 09.5
MAR 26		
COL	E(P)	06 33 14.7
MAR 26		
COL	IP	08 09 12.2
MAR 26		
BCN	IP D	08 29 43.2
	IS	29 46.0
EUR	EP	08 30 35.8
	I	31 20.0
	IL	31 30.0
MAR 26		
TUC	E(P)	08 31 06.5

Date and Station	Phase	(GCT)
		h m s
MAR 26		
BOZ	EP	08 40 17.0
MAR 26		
GUA	EP	09 02 09.3
	ES	03 07.0
BRW	IP	09 11 05.1
	E	11 35.9
COL	E(P)	09 11 10.6
EUR	IP	09 13 15.4
BOZ	EP	09 13 18.9
TUC	E(P)	09 13 46.5
MAR 26		
BOZ	EP	10 13 34.5
MAR 26		
BOZ	EP	10 27 04.5
MAR 26		
SHY	IP	10 27 35.6
	ES	27 45.3
AMC	IP	10 28 02.6
	IS	28 34.9
MAR 26		
AMC	EP	10 33 55.4
	ES	34 16.2
MAR 26		
H-12 10 44.0		
04.8N 077.6W		
h ABOUT 26KM		
BHP	IP	12 11 51.0
	IS	12 45.0
TUC	E(P)	12 18 30.8
	E	18 39.7
RCD	E	12 19 08.5
BCN	E	12 19 17.5
EUR	EP	12 19 31.4
BOZ	EP	12 19 39.9
COL	EP	12 22 39.5
BRW	EP	12 23 03.0
	E	23 11.4
	E	23 21.5
MAR 26		
COL	EP	12 12 33.0
MAR 26		
BOZ	EP	12 47 06.2
MAR 26		
BCN	IP	15 02 42.0
	IS	02 44.5

Date and Station	Phase	(GCT)
		h m s
MAR 26		
H-15 26 27.5		
50.8N 176.9E		
h ABOUT 29KM		
AMC	IP	15 26 54.2
	IS	27 12.0
COL	EP	15 31 31.0
BRW	EP	15 31 38.5
BOZ	EP	15 34 50.0
MAR 26		
H-15 34 08.2		
37.1N 116.0W		
h ABOUT 000KM		
BCN	EP C	15 34 35.5
	I	34 35.8
EUR	IP C	15 34 48.0
SLC	IP	15 35 25.5
TUC	IP	15 35 45.3
ALQ	I(P)	15 36 12.8
UKI	E	15 35 52.0
BOZ	EP	15 36 24.2
BUT	EP	15 36 26.2
	E	38 43.0
RCD	IP	15 37 01.0
	E	37 08.0
COL	EP	15 40 50.0
KIP	EP	15 41 42.0
BRW	IP	15 41 45.7
MAR 26		
H-16 12 36.9		
22.2S 175.0W		
h ABOUT 33KM		
TUC	E(P)	16 24 56.0
ALQ	EP	16 25 18.0
BOZ	EP	16 25 29.0
MAR 26		
H-16 12 43.6		
51.9N 176.4E		
h ABOUT 50KM		
SHY	EP	16 13 09.5
	ES	13 33.4
AMC	IP	16 13 12.5
COL	EP	16 17 40.0
BRW	IP	16 17 45.7
BOZ	EP	16 21 03.0
	E	21 26.0

Date and Station	Phase	(GCT)
		h m s
TUC	E(P)	16 22 04.8
	E	22 32.4
MAR 26		
KIP	E(P)	16 57 33.0
MAR 26		
BOZ	EP	16 59 53.0
MAR 26		
GCA	EP	18 19 40.2
MAR 26		
COL	EP	18 46 03.7
MAR 26		
H-18 58 45.6		
43.2N 126.3W		
h ABOUT 33KM		
UKI	E(P)	18 59 54.7
EUR	IP	19 00 51.3
BOZ	IP C	19 01 18.9
	I	01 24.5
TUC	E(P)	19 02 35.2
ALQ	EP	19 02 48.5
COL	E(P)	19 04 05.5
BRW	EP	19 05 09.0
MAR 26		
BOZ	EP	18 59 50.0
MAR 26		
FGU	EP	19 01 13.3
	IL	01 45.0
MAR 26		
H-20 11 32.5		
01.3N 029.8W		
h ABOUT 33KM		
TUC	E(P)	20 23 50.7
EUR	EP	20 24 13.5
MAR 26		
RCD	IP	20 13 05.0
	ES	13 08.0
MAR 26		
H-20 29 22.0		
36.8N 030.9E		
h ABOUT 110KM		
BRW	I(P)	20 40 36.2
MAR 26		
H-21 34 03.4		
52.0N 171.4E		
h ABOUT 30KM		
SHY	IP	21 34 32.9
	ES	34 55.2
AMC	EP	21 35 17.0
BRW	IP	21 39 16.1
	I	39 25.2

Date and Station	Phase (GCT)
	h m s
COL IP	21 39 20.2
EUR IP	21 42 59.0
BCN EP	21 43 23.2
E	43 31.0
E	43 37.5
RCD E(P)	21 43 31.0
TUC EP	21 43 58.5
E	44 05.5
MAR 26	
SHY IP	21 41 14.1
ES	41 36.4
COL EP	21 46 02.0
BRW E(P)	21 46 06.3
MAR 26	
H-21 47 30.7	
19.3N 145.0E	
h ABOUT 270KM	
GUA E(P)	21 48 57.0
BRW IP	21 57 24.4
COL EP	21 57 30.5
MAR 26	
H-22 36 19.2	
52.3N 172.4E	
h ABOUT 33KM	
SHY IP	22 36 38.3
ES	36 52.8
BRW IP	22 41 28.0
F	41 37.5
COL EP	22 41 30.0
MAR 26	
BRW EP	22 39 32.0
COL IP	22 39 36.3
BOZ EP	22 42 16.8
MAR 26	
H-22 57 50.9	
52.2N 171.5E	
h ABOUT 33KM	
SHY EP	22 58 18.4
ES	58 41.2
BRW IP	23 03 02.5
E	03 12.5
COL IP	23 03 06.6
EUR IP	23 06 45.2
TUC E(P)	23 07 43.0
MAR 26	
H-23 01 14.4	
5.5S 152.7E	
h ABOUT 37KM	

Date and Station	Phase (GCT)
	h m s
COL IP	23 13 33.8
BRW EP	23 13 40.1
MAR 26	
AMC IP	23 06 05.4
I	10 08.0
MAR 26	
SHY EP	23 33 23.0
ES	33 39.3
AMC EP	23 33 48.3
IS	34 11.7
MAR 26	
AMC IP	23 56 22.4
MAR 27	
ALQ EP	00 15 51.6
MAR 27	
KIP FP	01 37 03.5
MAR 27	
EUR IP	01 58 05.4
IS	58 25.4
MAR 27	
H-02 57 06.9	
52.2N 171.4E	
h ABOUT 33KM	
SHY IP	02 57 34.5
BRW EP	03 02 17.3
COL IP	03 02 22.6
MAR 27	
H-03 37 20.3	
52.1N 171.5E	
h ABOUT 33KM	
SHY IP	03 37 48.4
IS	38 11.0
COL IP	03 42 36.2
BOZ EP	03 46 04.0
E	46 16.0
EUR EP	03 46 13.5
MAR 27	
SHY IP	03 53 52.9
IS	54 15.7
MAR 27	
SHY IP	04 41 00.4
COL EP	03 58 41.0
MAR 27	
H-05 19 09.7	
52.9N 171.7E	
h ABOUT 25KM	
SHY EP	05 19 34.9
ES	19 49.5
AMC E(P)	05 20 28.2
BRW EP	05 24 16.5

Date and Station	Phase (GCT)
	h m s
COL IP	05 24 21.1
BOZ EP	05 27 49.9
EUR EP	05 28 03.2
MAR 27	
SHY IP	05 42 57.0
ES	43 12.7
BRW EP	05 47 41.5
MAR 27	
SHY EP	06 09 34.5
ES	09 57.3
MAR 27	
SHY EP	06 36 31.8
IS	36 54.6
MAR 27	
H-06 38 01.2	
52.5N 171.5E	
h ABOUT 30KM	
SHY EP	06 38 27.3
IS	38 49.9
COL IP	06 43 15.0
MAR 27	
COL IP	06 41 19.8
MAR 27	
COL EP	07 17 26.4
MAR 27	
AMC EP	07 19 28.8
MAR 27	
SHY EP	07 33 32.2
ES	33 52.5
MAR 27	
SHY EP	07 34 39.0
ES	35 02.0
MAR 27	
COL EP	07 35 13.0
MAR 27	
COL EP	07 39 27.0
MAR 27	
H-08 23 39.8	
52.1N 172.8E	
h ABOUT 33KM	
SHY EP	08 23 58.3
ES	24 10.8
COL EP	08 28 50.0
EUR EP	08 32 27.5
MAR 27	
BOZ EP	08 30 39.0
MAR 27	
H-09 03 55.2	
43.8N 127.3W	
h ABOUT 33KM	
EUR E(P)	09 06 17.2

Date and Station	Phase (GCT)
	h m s
BOZ EP	09 06 37.0
MAR 27	
ALQ IP	10 09 54.8
MAR 27	
ALQ IP	13 33 24.2
MAR 27	
H-14 02 57.2	
51.1N 175.0E	
h ABOUT 33KM	
SHY EP	14 03 24.4
ES	03 47.9
COL EP	14 08 07.6
MAR 27	
COL IP	14 15 16.9
MAR 27	
H-14 19 41.7	
40.4N 138.3E	
h ABOUT 25KM	
BRW I(P)	14 28 01.8
COL EP	14 28 17.0
BOZ EP	14 31 16.3
EUR EP	14 31 26.7
TUC E(P)	14 32 09.5
F	32 16.8
MAR 27	
SHY EP	15 00 36.5
IS	00 59.5
COL EP	15 05 24.0
MAR 27	
COL EP	16 00 44.4
MAR 27	
COL EP	16 45 18.0
MAR 27	
H-17 26 37.0	
52.4N 172.8E	
h ABOUT 33KM	
SHY IP	17 26 52.4
F	27 00.9
COL EP	17 31 46.0
BRW EP	17 31 46.8
MAR 27	
GUA IP	18 57 38.8
ES	57 55.2
MAR 27	
H-19 16 19.9	
51.6N 177.6W	
h ABOUT 49KM	
COL E(P)	19 20 52.4
BRW EP	19 21 11.3

Date and Station	Phase	(GCT) h m s
BOZ	EP	19 24 13.0
EUR	IP	19 24 21.6
MAR 27		
AMC	IP	20 34 22.6
MAR 27		
H-20 56 24.2		
51.6N 177.2E		
h ABOUT 43KM		
AMC	EP	20 56 45.5
	ES	57 03.7
SHY	EP	20 56 59.7
	IS	57 27.1
COL	EP	21 01 20.0
BRW	IP	21 01 26.2
BOZ	EP	21 04 40.5
EUR	IP	21 04 51.4
TUC	E(P)	21 05 51.0
MAR 27		
EUR	IP	22 28 42.1
	IS	28 57.6
MAR 27		
H-23 17 38.7		
42.6N 111.6W		
h ABOUT 33KM		
SLC	EP	23 18 08.4
	IL	18 36.5
FGU	IP	23 18 16.5
BOZ	IP	23 18 25.0
	I	18 30.0
BUT	E(P)	23 18 28.0
EUR	IP	23 18 47.2
	EL	20 02.5
MAR 27		
SLC	E(P)	23 54 11.8
	E	54 38.1
BOZ	EP	23 54 26.5
MAR 27		
H-23 56 57.3		
2.6S 126.2E		
h ABOUT 33KM		
GUA	IP	24 02 16.0
	ES	06 38.0
BRW	E(P)	24 09 54.5
COL	E(P)	24 09 58.9
EUR	EP'	24 15 37.5
TUC	EP'	24 15 47.0
MAR 28		
H-00 03 50.0		
02.6S 126.0E		
h ABOUT 33KM		
COL	EP	00 16 50.0
MAR 28		
COL	EP	00 05 53.0
MAR 28		
BUT	E(P)	00 18 00.0
	E	18 18.0
MAR 28		
H-01 37 34.5		
50.8N 173.0E		
h ABOUT 33KM		
COL	E(P)	01 42 54.0
BOZ	EP	01 46 14.2
EUR	IP	01 46 24.3
TUC	E(P)	01 47 22.2
	E	47 33.5
MAR 28		
COL	E(P)	01 57 54.7
MAR 28		
H-02 32 21.4		
36.2N 120.4W		
h ABOUT 14KM		
EUR	EP	02 33 36.2
BCN	E	02 33 41.0
	EL	34 48.5
MAR 28		
H-02 48 21.0		
52.0N 171.4E		
h ABOUT 55KM		
SHY	I(P)	02 48 47.8
	ES	49 10.1
BRW	IP	02 53 31.5
	E	53 41.8
COL	EP	02 53 36.0
BOZ	EP	02 57 03.2
	I	57 16.5
EUR	IP	02 57 13.9
TUC	E(P)	02 58 10.4
MAR 28		
COL	EP	04 29 16.1
MAR 28		
H-05 30 25.4		
15.0S 072.3W		
h ABOUT 108KM		
TUC	EP	05 40 21.0
RCD	E(P)	05 40 57.0
EUR	EP	05 41 15.0
BOZ	EP	05 41 27.6
	E	41 57.0
COL	EP	05 43 47.0
MAR 28		
COL	IP	07 59 49.5
BRW	E(P)	08 01 19.3
MAR 28		
H-08 41 11.3		
32.3N 131.4E		
h ABOUT 33KM		
BRW	IP	08 50 35.0
	I	50 45.0
COL	EP	08 50 58.5
BOZ	EP	08 53 36.0
EUR	IP	08 53 45.3
MAR 28		
H-09 20 13.0		
52.1N 171.6E		
h ABOUT 33KM		
SHY	IP	09 20 40.2
	IS	21 03.1
BRW	EP	09 25 23.7
	E	25 32.9
	E	25 50.8
COL	IP	09 25 27.9
	I	25 55.5
COL	IP	09 25 28.0
BOZ	EP	09 28 55.0
EUR	IP	09 29 06.0
MAR 28		
SHY	EP	09 21 10.2
	ES	21 30.2
MAR 28		
AMC	EP	09 38 18.5
MAR 28		
H-09 59 58.0		
15.7S 074.1W		
h ABOUT 45KM		
SJG	IP	10 06 43.5
WSC	EP	10 09 23.6
TUC	IP C	10 09 57.0
	F▸P	10 09.2
GCA	E(P)	10 10 29.5
BCN	EP	10 10 31.0
	E▸P	10 43.5
RCD	EP	10 10 36.0
	E▸P	10 48.0
SLC	EP	10 10 43.3
EUR	IP C	10 10 51.3
	I▸P	11 03.7
BOZ	E(P)	10 11 10.5
	I	11 17.9
BUT	EP	10 11 12.0
COL	EP	10 13 27.0
MAR 28		
EUR	EP	10 39 10.5
BCN	EP	10 39 22.5
MAR 28		
GUA	EP	11 24 44.7
MAR 28		
COL	EP	11 42 29.5
MAR 28		
COL	EP	13 06 48.0
MAR 28		
GCA	IP	13 22 55.5
MAR 28		
H-13 22 57.6		
55.1N 162.1E		
h ABOUT 33KM		
SHY	EP	13 24 44.8
	ES	26 02.0
AMC	EP	13 25 33.2
BRW	IP C	13 28 10.3
	IPCP	31 53.6
	FSCP	35 37.0
COL	IP D	13 28 30.7
	E	33 58.0
	E	34 52.5
KIP	IP	13 31 14.0
	ES	37 56.0
	EL	43 44.0
BUT	EP	13 32 04.0
BOZ	IP C	13 32 09.9
	I▸P	32 17.8
EUR	IP C	13 32 26.1
	E	37 23.6
	EP'P'	14 02 16.2
SLC	IP	13 32 34.7
	EP'P'	14 02 16.1
FGU	IP	13 32 43.3
BCN	EP	13 32 48.2
	EP'P'	14 02 33.0
RCD	IP C	13 32 48.4
	E▸P	32 56.5
	EP'P'	14 02 38.0
TUC	IP C	13 33 21.7
	E	33 33.5
	EP'P'	14 02 28.0

Date and Station	Phase (GCT) h m s
WSC EP	13 34 27.7
CSC EP	13 34 43.0
E	35 07.0
MAR 28	
H-14 00 17.3	
55.3N 161.9E	
h ABOUT 33KM	
BRW EP	14 05 28.5
COL EP	14 05 50.0
EUR EP	14 09 44.4
MAR 28	
KIP E(P)	14 18 48.2
MAR 28	
H-16 33 15.7	
32.4S 071.3W	
h ABOUT 072KM	
BHP IP	16 41 01.4
IS	47 10.0
SJG IP	16 42 06.0
IpP	42 24.1
I	42 37.7
IPP	43 22.0
IS	49 11.5
FsS	49 40.5
CSC IP D	16 44 00.5
FsP	44 27.0
F	53 44.0
WAS IP	16 44 27.8
I	44 43.0
E	53 43.0
WSC P	16 44 29.8
ALQ IP	16 44 49.0
IS	54 20.0
CHK EP	16 44 53.3
IS	54 27.7
RCN IP D	16 45 15.6
IsP	45 45.2
ES	55 14.0
EPKKP	17 03 52.0
EP'P'	12 10.0
P'P'	12 37.5
I	12 45.5
FSKPP'	15 30.7
P'P'P'	31 55.5
FGU IP	16 45 23.7
RCD EP D	16 45 26.0
E	45 31.0
E	55 36.0
P'P'P'	17 32 10.0
SLC IP	16 45 28.2
I	45 34.8
IsP	45 59.0
IS	55 35.5
FUR IP D	16 45 33.5
IPP	48 50.2
I	49 07.0
ESP	56 11.2
IP'P'	17 12 07.5
EP'P'P'	32 03.0
BOZ IP	16 45 47.5
I	46 24.0
EP'P'	17 12 08.0
UKI FP	16 45 50.0
BUT IP D	16 45 52.0
IS	56 23.0
P'P'P'	17 32 03.0
HON EP	16 46 50.0
EPP	50 54.4
ESKS	57 22.0
E	58 31.0
EL	17 18 30.0
KIP EP	16 46 50.0
EPP	50 47.3
EPPP	53 09.0
ESKS	57 18.0
ES	58 01.3
E	59 40.5
ESS	17 05 04.0
COL IP	16 47 53.0
EpP	48 13.8
IP'	51 45.6
EPP	52 39.0
pPP	53 03.5
I(SKP)	54 20.1
I	17 00 07.0
sS	00 42.0
PKKP	02 33.1
SS	17 08 03.0
BRW E(P)	16 48 18.0
IP'	51 56.0
EPP	53 07.5
IPKKP	17 02 12.4
AMC EP'	16 52 10.0
SHY EP'	16 52 16.4
GUA IP'	16 52 35.8
MAR 28	
H-18 18 39.9	
13.4N 145.8E	
h ABOUT 43KM	
GUA IP	18 18 56.0
IS	19 03.0
BRW FP	18 29 31.8
COL E(P)	18 29 36.0
BOZ E(P)	18 31 26.0
EUR EP	18 31 27.0
MAR 28	
BRW EP	21 01 15.2
MAR 28	
AMC IP	21 17 54.4
MAR 28	
H-21 27 25.3	
13.4N 144.3E	
h ABOUT 135KM	
GUA IP	21 27 45.7
MAR 28	
H-21 42 17.6	
52.4N 159.3E	
h ABOUT 33KM	
BRW EP	21 48 03.3
COL E(P)	21 48 17.5
EUR IP	21 52 02.9
MAR 28	
H-22 16 34.8	
52.9N 169.6W	
h ABOUT 49KM	
COL E(P)	22 20 22.0
BRW E(P)	22 21 04.5
MAR 28	
COL IP	22 18 11.5
MAR 28	
GUA EP	23 13 31.3
ES	13 53.7
MAR 28	
H-23 49 35.2	
51.3N 172.8E	
h ABOUT 33KM	
COL FP	23 54 51.0
BRW E(P)	23 54 51.7
BOZ EP	23 58 13.9
EUR IP	23 58 24.7
MAR 28	
SHY IP	23 55 00.0
ES	55 10.0
MAR 29	
H-00 05 36.3	
14.7N 146.6E	
h ABOUT 61KM	
GUA IP	00 06 08.7
COL FP	00 16 21.0
EUR IP	00 18 15.6
RCN E(P)	00 18 20.0
FGU FP	00 18 35.6
RCD E(P)	00 18 49.0
MAR 29	
AMC IP	00 07 23.2
IS	07 29.4
MAR 29	
COL E(P)	00 08 16.5
MAR 29	
AMC IP	00 13 24.7
MAR 29	
H-00 35 59.8	
20.8S 173.6W	
h ABOUT 33KM	
TUC E(P)	00 48 07.0
EUR FP	00 48 10.6
ALQ FP	00 48 31.5
COL EP	00 48 45.0
MAR 29	
EUR IP	00 58 24.8
TUC F(P)	00 59 21.0
MAR 29	
FUR FP	01 24 32.1
MAR 29	
H-01 30 36.8	
50.2N 178.7E	
h ABOUT 33KM	
AMC IP	01 30 55.7
IS	31 13.8
EUR FP	01 38 59.9
MAR 29	
H-02 34 56.1	
51.1N 177.3E	
h ABOUT 35KM	
AMC EP	02 35 16.6
IS	36 31.8
COL EP	02 39 56.0
BRW FP	02 40 02.5
BOZ IP	02 43 16.1
EUR IP	02 43 24.9
ALQ E(P)	02 44 29.8
MAR 29	
H-03 52 06.1	
17.8N 100.2W	
h ABOUT 33KM	
TUC E(P)	03 56 08.7
ALQ EP	03 56 15.8
MAR 29	
AMC IP	04 19 51.0
IS	20 08.4
MAR 29	
H-04 56 38.9	
52.7N 171.8E	
h ABOUT 41KM	

Date and Station	Phase	(GCT) h m s
SHY	EP	04 57 02.2
	ES	57 18.0
BRW	EP	05 01 43.4
COL	IP	05 01 48.0
EUR	EP	05 05 28.9
MAR 29		
AMC	IP	04 56 43.0
MAR 29		
BHP	EP	05 14 05.0
MAR 29		
H-07 06 07.2		
20.4S 178.5W		
h ABOUT 552KM		
COL	EP	07 18 00.2
MAR 29		
H-07 24 41.2		
32.5S 071.5W		
h ABOUT 70KM		
EUR	EP	07 36 57.8
MAR 29		
H-07 26 07.0		
20.6S 175.9W		
h ABOUT 200KM		
COL	EP	07 38 34.0
MAR 29		
H-07 44 54.4		
51.3N 174.9E		
h ABOUT 30KM		
COL	EP	07 50 03.5
EUR	IP	07 53 35.3
MAR 29		
COL	IP	07 53 34.2
MAR 29		
GUA	IP	07 54 15.4
	ES	54 28.0
MAR 29		
H-08 44 11.6		
51.3N 178.6E		
h ABOUT 33KM		
AMC	IP	08 44 21.6
	IS	44 29.3
COL	IP	08 49 04.4
EUR	IP	08 52 33.8
MAR 29		
EUR	EP	08 44 33.0
MAR 29		
SJG	EP	09 02 47.5
	IL	03 18.2
MAR 29		
H-09 30 41.9		
56.3N 126.3E		
h ABOUT 33KM		
BRW	EP	09 37 27.2
COL	EP	09 38 10.0
BOZ	EP	09 41 35.9
EUR	IP	09 41 58.4
BCN	EP	09 42 19.0
MAR 29		
H-10 09 49.4		
51.6N 178.4E		
h ABOUT 33KM		
AMC	IP	10 10 00.9
	IS	10 08.0
COL	EP	10 14 42.0
BOZ	EP	10 18 02.9
EUR	IP	10 18 13.1
MAR 29		
H-10 28 10.6		
53.0N 168.4W		
h ABOUT 33KM		
COL	EP	10 31 53.3
BOZ	IP	10 35 17.8
EUR	IP	10 35 27.1
BCN	EP	10 35 51.3
	E	36 00.3
	E	36 14.3
TUC	EP	10 36 30.2
ALQ	IP	10 36 36.8
MAR 29		
H-10 47 37.6		
40.8N 142.8E		
h ABOUT 33KM		
GUA	EP	10 53 18.0
	ES	57 48.0
BRW	IP C	10 55 31.4
	E	55 41.1
	EPCP	57 22.5
	E	57 34.0
	E(S)	11 01 55.7
COL	IP	10 55 54.2
	E	56 04.7
	E	56 19.4
	EPP	57 50.2
	(SCP)	11 01 18.8
	IS	02 32.0
	ESCS	05 48.0
SIT	IP	10 56 53.0
	IS	11 04 26.0
KIP	EP	10 56 54.7
	ES	11 04 27.0
	EL	11 37.0
HON	EP	10 56 55.0
UKI	E(P)	10 58 37.7
BUT	EP C	10 58 51.0
	I	59 00.0
	ES	11 07 51.0
BOZ	IP C	10 58 55.0
	I	59 09.0
	ES	11 08 04.0
	EL	12 40.0
EUR	IP C	10 59 04.3
SLC	IP	10 59 13.4
FGU	EP	10 59 21.0
BCN	IP C	10 59 21.5
	I	59 30.5
	E	11 09 01.0
	E	09 30.5
GCA	EP	10 59 29.3
TUC	IP C	10 59 48.8
	E	11 09 54.0
ALQ	IP	10 59 52.6
WSC	E(P)	11 00 46.4
MAR 29		
FUR	EP	11 11 31.0
MAR 29		
H-11 16 18.5		
40.5N 141.2E		
h ABOUT 208KM		
COL	EP	11 24 22.0
BOZ	IP	11 27 23.0
EUR	EP	11 27 31.8
MAR 29		
BCN	EP	11 28 41.0
MAR 29		
FGU	EP	11 49 46.8
EUR	E(P)	11 50 35.5
MAR 29		
SHY	EP	12 52 51.8
MAR 29		
AMC	IP	13 53 51.3
	IS	53 59.0
MAR 29		
EUR	IP	12 56 29.1
	IPP	56 39.6
MAR 29		
H-13 10 22.3		
33.9N 065.0W		
h ABOUT 10KM		
WSC	EP	13 13 03.0
	I(S)	15 06.0
CSC	EP	13 13 34.0
BOZ	EP	13 17 34.4
TUC	EP	13 17 43.5
EUR	IP	13 18 05.2
MAR 29		
H-13 55 40.8		
51.0N 176.2E		
h ABOUT 33KM		
BOZ	EP	14 04 06.0
MAR 29		
BOZ	EP	14 18 09.0
MAR 29		
H-14 32 41.2		
52.2N 175.4E		
h ABOUT 34KM		
SHY	IP	14 33 00.9
	E(S)	33 16.3
AMC	IP	14 33 20.9
	IS	33 52.6
COL	EP	14 37 42.5
	E	37 52.5
BRW	IP	14 37 45.3
	FPP	37 54.3
	F	40 51.0
	F(PCP)	41 33.2
KIP	EP	14 39 50.7
	EL	49 32.0
BOZ	EP	14 41 07.0
EUR	IP	14 41 17.0
SLC	E(P)	14 41 30.3
BCN	EP	14 41 41.1
TUC	E(P)	14 42 18.0
ALQ	EP	14 42 22.2
MAR 29		
AMC	IP	14 46 21.7
	IS	46 29.7
MAR 29		
H-15 12 14.5		
51.8N 176.6E		
h ABOUT 55KM		
AMC	EP	15 12 43.0
	E	13 02.5
SHY	IP	15 12 44.2
	ES	13 06.0
COL	EP	15 17 09.0
BRW	EP	15 17 14.7

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	h m s
BOZ EP	15 20 31.7
EUR EP	15 20 42.6
MAR 29	
COL IP	17 06 31.5
MAR 29	
COL FP	17 27 25.1
MAR 29	
H-17 35 16.2	
50.3N 178.5E	
h ABOUT 40KM	
AMC IP	17 35 36.9
IS	35 52.9
BOZ EP	17 43 33.0
MAR 29	
H-17 47 48.0	
17.0N 099.7W	
h ABOUT 33KM	
TUC EP	17 52 00.8
E	52 07.0
ALQ EP	17 52 08.0
BCN EP	17 52 55.0
E	53 00.0
EUR EP	17 53 25.1
BOZ EP	17 53 57.7
COL EP	17 57 36.0
MAR 29	
H-17 57 46.6	
51.8N 173.2E	
h ABOUT 30KM	
SHY FP	17 58 06.2
COL E(P)	18 03 00.2
BOZ EP	18 06 23.0
EUR EP	18 06 34.5
TUC E(P)	18 07 32.1
MAR 29	
AMC IP	18 11 48.9
IS	12 05.0
MAR 29	
AMC IP	18 36 48.4
IS	37 04.0
MAR 29	
GCA EP	21 26 40.0
ES	27 15.0
TUC EP	21 27 22.0
MAR 29	
BOZ EP	21 29 59.0

Date and Station	Phase (GCT)
	h m s
MAR 19	
AMC IP	23 12 40.2
IS	12 56.1
MAR 29	
H-23 57 33.5	
28.7S 178.4W	
h ABOUT 228KM	
KIP FP	24 06 32.0
GUA EP	24 06 41.3
BCN FP D	24 09 59.0
EPP	10 54.5
TUC IP D	24 10 01.7
IPP	10 57.1
EUR IP	24 10 04.7
FPP	11 00.7
GCA EP	24 10 11.5
ALQ IP	24 10 21.2
IPP	11 17.5
MAR 30	
H-00 21 00.2	
20.0S 173.9W	
h ABOUT 33KM	
KIP E(P)	00 29 02.2
GUA E(P)	00 30 13.0
E(S)	37 32.0
BCN EP	00 33 02.7
TUC EP	00 33 07.0
F	43 14.0
EUR IP D	00 33 09.4
GCA IP	00 33 18.0
SLC IP	00 33 27.3
ALQ IP	00 33 30.4
FGU IP	00 33 35.8
BUT FP	00 33 39.3
BOZ IP D	00 33 41.0
COL EP	00 33 43.0
BRW FP	00 34 08.3
MAR 30	
H-00 51 48.2	
50.3N 177.7E	
h ABOUT 33KM	
AMC IP	00 52 12.7
IS	52 28.4
BOZ EP	01 00 09.0
EUR EP	01 00 15.5
TUC EP	01 01 14.0

Date and Station	Phase (GCT)
	h m s
MAR 30	
COL EP	01 10 35.0
MAR 30	
H-01 53 00.6	
50.5N 176.0E	
h ABOUT 33KM	
AMC IP	01 53 35.7
ES	54 02.0
COL IP	01 58 10.5
BRW EP	01 58 16.0
BOZ EP D	02 01 29.0
EUR EP	02 01 37.0
TUC EP	02 02 35.0
MAR 30	
GUA IP	02 24 42.7
ES	25 13.3
MAR 30	
BRW EP	02 28 39.0
MAR 30	
H-02 27 07.2	
50.6N 177.9E	
h ABOUT 51KM	
AMC IP	02 27 28.8
COL IP	02 32 06.8
BRW IP	02 32 17.5
E	40 00.0
SIT EP	02 32 55.0
E	33 07.2
KIP IP	02 33 51.0
ES	39 25.9
EL	41 57.0
HON E(P)	02 33 57.3
E	35 44.0
I	38 10.0
E(S)	39 44.0
EL	41 25.0
UKI EP	02 34 57.9
F	41 26.0
BUT EP	02 35 18.7
F	42 00.7
EL	45 20.7
GUA P	02 35 22.0
BOZ IP D	02 35 24.5
EUR EP D	02 35 32.4
SLC IP	02 35 45.8
I	37 08.5
I	37 47.3
IS	42 49.5
BCN IP D	02 35 54.5
FGU IP	02 35 55.3

Date and Station	Phase (GCT)
	h m s
GCA IP	02 36 04.0
RCD EP	02 36 09.0
E	36 19.0
TUC IP D	02 36 30.8
ALQ IP	02 36 37.5
S	44 30.9
WSC P	02 38 10.0
S	47 23.0
WAS IP	02 38 12.0
PHI IP	02 38 17.5
IS	47 26.8
CSC F	02 38 21.0
BHP IP	02 40 08.0
IS	42 05.0
SJG IP	02 40 11.2
EPP	43 46.0
MAR 30	
BRW EP	02 51 47.0
BCN EP	02 55 24.0
RCD FP	02 55 38.0
MAR 30	
H-02 51 50.7	
51.1N 179.2W	
h ABOUT 33KM	
BRW EP	02 56 50.0
MAR 30	
H-02 53 15.5	
50.4N 177.5E	
h ABOUT 33KM	
BRW FP	02 58 29.0
BCN FP	03 02 07.0
MAR 30	
COL EP	03 01 00.7
MAR 30	
H-03 02 56.5	
50.4N 177.9E	
h ABOUT 30KM	
BRW FP	03 08 09.0
BCN EP	03 11 45.8
MAR 30	
COL EP	03 03 19.6
BRW FP	03 03 26.5
MAR 30	
BRW E(P)	03 05 36.0
MAR 30	
H-03 11 02.2	
50.7N 178.3E	
h ABOUT 033KM	

Date and Station	Phase	(GCT)
		h m s
BRW	IP	03 16 10.8
MAR 30		
BRW	EP	03 20 30.0
BCN	EP	03 24 54.0
MAR 30		
BRW	EP	03 20 54.5
MAR 30		
BRW	E(P)	03 30 06.5
	I	30 34.0
BCN	EP	09 33 46.5
MAR 30		
BCN	EP	03 34 29.6
MAR 30		
BOZ	EP	03 35 19.0
MAR 30		
BCN	EP	03 39 03.8
TUC	EP	03 39 39.4
MAR 30		
BRW	EP	03 42 00.0
MAR 30		
H-03 39 51.7		
50.1N 176.4E		
h ABOUT 30KM		
COL	EP	03 45 01.3
BRW	EP	03 45 11.5
MAR 30		
H-03 41 53.8		
50.2N 178.0E		
h ABOUT 33KM		
COL	E(P)	03 46 57.3
BRW	EP	03 47 07.0
TUC	EP	03 51 19.7
MAR 30		
H-03 47 23.7		
50.6N 177.5E		
h ABOUT 33KM		
BRW	EP	03 52 34.5
MAR 30		
H-03 58 01.3		
50.8N 178.5W		
h ABOUT 033KM		
BRW	E(P)	04 03 08.5
MAR 30		
COL	E(P)	03 58 17.5
MAR 30		
COL	E(P)	04 02 23.0
MAR 30		
AMC	EP	04 07 34.8
BRW	E(P)	04 09 04.0

Date and Station	Phase	(GCT)
		h m s
MAR 30		
COL	EP	04 12 22.0
BRW	EP	04 12 38.0
BOZ	EP	04 15 41.0
BCN	E(P)	04 16 15.0
	E	16 33.4
	E	16 42.8
TUC	E(P)	04 16 49.5
MAR 30		
COL	EP	04 21 14.6
BRW	EP	04 21 24.5
MAR 30		
H-04 25 23.7		
51.2N 178.5E		
h ABOUT 35KM		
COL	E(P)	04 30 17.4
BRW	EP	04 30 28.5
MAR 30		
H-04 28 00.5		
50.3N 178.1E		
h ABOUT 33KM		
COL	EP	04 33 03.4
BRW	EP	04 33 12.0
MAR 30		
H-04 32 50.0		
50.4N 177.6E		
h ABOUT 35KM		
COL	EP	04 37 53.0
BRW	IP	04 38 04.0
BOZ	EP	04 41 11.4
BCN	EP	04 41 41.4
	EpP	41 51.1
TUC	EP	04 42 17.3
	IpP	42 27.0
MAR 30		
COL	EP	04 37 16.1
TUC	E(P)	04 41 38.5
MAR 30		
H-04 51 12.5		
50.4N 178.0E		
h ABOUT 33KM		
COL	EP	04 56 14.0
BRW	EP	04 56 24.5
TUC	E(P)	05 00 36.0
MAR 30		
H-04 56 20.2		
50.3N 177.9E		
h ABOUT 33KM		

Date and Station	Phase	(GCT)
		h m s
COL	E(P)	05 01 24.2
BRW	IP	05 01 33.3
BOZ	EP	05 04 40.0
MAR 30		
COL	E(P)	04 59 42.5
MAR 30		
H-05 01 24.6		
50.7N 178.1E		
h ABOUT 33KM		
COL	E(P)	05 06 23.5
MAR 30		
BOZ	E(P)	05 10 41.5
MAR 30		
AMC	EP	05 11 42.5
MAR 30		
H-05 13 25.1		
50.2N 177.8E		
h ABOUT 35KM		
COL	EP	05 18 28.7
BRW	EP	05 18 40.2
BOZ	E(P)	05 21 46.0
TUC	EP	05 22 52.0
MAR 30		
BOZ	E(P)	05 19 39.0
MAR 30		
H-05 15 29.9		
50.3N 177.9E		
h ABOUT 033KM		
BRW	EP	05 20 44.0
MAR 30		
BOZ	E(P)	05 23 23.0
MAR 30		
BOZ	E(P)	05 23 43.0
	E	23 50.0
MAR 30		
BOZ	EP	05 25 39.5
MAR 30		
H-05 25 58.8		
50.5N 177.6E		
h ABOUT 30KM		
COL	EP	05 31 02.3
BRW	EP	05 31 11.0
BOZ	EP	05 34 19.9
MAR 30		
BOZ	EP	05 29 19.0
	E	29 30.5
MAR 30		
H-05 32 09.9		
50.4N 178.1E		
h ABOUT 35KM		

Date and Station	Phase	(GCT)
		h m s
COL	IP	05 37 11.2
BRW	IP	05 37 22.0
BOZ	EP	05 40 29.0
TUC	EP	05 41 34.5
MAR 30		
BOZ	E(P)	05 32 13.0
MAR 30		
BOZ	E(P)	05 32 56.0
MAR 30		
H-05 36 46.0		
50.6N 178.2E		
h ABOUT 33KM		
COL	EP	05 41 45.4
BOZ	EP	05 45 04.0
	E	45 12.0
MAR 30		
BOZ	E(P)	05 36 53.0
MAR 30		
BOZ	E(P)	05 43 54.0
MAR 30		
BOZ	E(P)	05 49 32.0
	E	49 36.0
MAR 30		
H-05 54 15.6		
06.6S 148.1E		
h ABOUT 56KM		
COL	EP	06 06 46.0
MAR 30		
H-05 54 22.2		
50.5N 178.1E		
h ABOUT 033KM		
BOZ	EP	06 02 40.1
MAR 30		
COL	E(P)	05 57 46.6
MAR 30		
BOZ	IP	06 10 40.0
MAR 30		
H-06 14 57.7		
50.7N 177.4E		
h ABOUT 30KM		
BOZ	EP	06 23 20.0
MAR 30		
H-06 24 15.5		
50.2N 177.6E		
h ABOUT 30KM		
COL	EP	06 29 21.0
BRW	EP	06 29 31.0
BOZ	E(P)	06 32 36.0

Date and Station	Phase (GCT)
	h m s
MAR 30	
H-06 25 01.1	
50.1N 177.3E	
h ABOUT 30KM	
COL IP	06 30 08.0
BRW IP	06 30 19.0
BOZ EP	06 33 24.3
EUR IP	06 33 32.9
EPP	33 41.9
BCN EP	06 33 55.0
EPP	34 03.0
TUC EP	06 34 30.7
MAR 30	
COL EP	06 27 49.0
BOZ EP	06 30 36.0
MAR 30	
BRW E(P)	06 33 58.5
BOZ EP	06 37 29.0
TUC E(P)	06 39 22.2
MAR 30	
BOZ E(P)	06 43 23.0
MAR 30	
H-06 45 15.7	
50.6N 178.0E	
h ABOUT 33KM	
BOZ EP	06 53 34.0
MAR 30	
BOZ E(P)	06 47 39.0
MAR 30	
H-06 51 39.4	
50.8N 177.2E	
h ABOUT 33KM	
BOZ EP	07 00 01.5
TUC EP	07 01 07.5
MAR 30	
H-06 55 14.9	
50.9N 177.4E	
h ABOUT 33KM	
COL E(P)	07 00 16.2
BOZ EP	07 03 35.5
EUR IP	07 03 44.0
MAR 30	
RCD EP	07 05 00.5
MAR 30	
BOZ EP	07 07 38.0
MAR 30	
H-07 10 53.4	
50.2N 177.8E	
h ABOUT 35KM	

Date and Station	Phase (GCT)
	h m s
AMC EP	07 11 18.1
ES	11 36.0
COL EP	07 15 57.0
EUR IP	07 19 20.9
BCN EP	07 19 43.6
E	20 20.1
TUC EP	07 20 19.0
E	20 56.4
MAR 30	
BOZ EP	07 14 33.0
MAR 30	
H-07 21 10.6	
50.2N 177.7E	
h ABOUT 33KM	
AMC EP	07 21 36.5
COL FP	07 26 14.0
BRW IP	07 26 23.0
BOZ EP	07 29 31.0
EPCP	31 06.0
EUR IP	07 29 39.4
RCD EP	07 30 17.0
E	30 27.0
TUC FP	07 30 37.3
MAR 30	
H-07 40 37.5	
50.3N 177.4E	
h ABOUT 32KM	
AMC IP	07 41 04.0
IS	41 22.5
COL EP	07 45 41.0
BRW EP	07 45 50.5
BOZ EP	07 48 59.2
E	49 10.0
EUR IP	07 49 08.2
BCN EP	07 49 30.0
EPP	49 39.5
RCD EP	07 49 43.0
TUC EP	07 50 06.0
EPP	50 15.0
MAR 30	
SHY IP	07 43 03.7
ES	43 25.6
MAR 30	
BRW IP	07 48 34.0
MAR 30	
H-07 53 22.6	
51.4N 176.8E	
h ABOUT 35KM	

Date and Station	Phase (GCT)
	h m s
SHY EP	07 53 56.3
ES	54 25.9
COL EP	07 58 23.0
BRW EP	07 58 26.5
BOZ E(P)	08 01 43.0
EUR IP	08 01 53.4
BCN EP	08 02 16.0
TUC E(P)	08 02 51.8
MAR 30	
BOZ E(P)	07 56 58.5
E	57 10.5
MAR 30	
BOZ E(P)	08 00 48.0
MAR 30	
H-08 01 26.7	
50.3N 177.9E	
h ABOUT 30KM	
AMC IP	08 01 51.0
COL EP	08 06 30.0
BRW EP	08 06 39.5
BOZ EP	08 09 47.0
E	09 56.0
EUR IP	08 09 55.5
BCN EP	08 10 17.0
TUC EP	08 10 52.6
MAR 30	
H-08 11 07.3	
50.5N 177.5E	
h ABOUT 35KM	
COL EP	08 16 10.0
BRW EP	08 16 18.5
BOZ IP	08 19 28.0
EUR IP	08 19 36.3
BCN EP	08 19 58.5
RCD EP	08 20 12.5
TUC EP	08 20 34.3
MAR 30	
H-08 35 34.7	
50.3N 178.0E	
h ABOUT 30KM	
COL EP	08 40 38.2
BRW E(P)	08 40 57.2
BOZ EP	08 43 54.0
E	44 06.0
TUC E(P)	08 45 00.2

Date and Station	Phase (GCT)
	h m s
MAR 30	
H-08 41 13.1	
50.8N 178.2E	
h ABOUT 25KM	
COL EP	08 46 12.5
BCN EP	08 49 58.9
TUC E(P)	08 50 34.1
MAR 30	
BOZ E(P)	08 53 10.0
MAR 30	
H-08 54 18.0	
50.1N 178.3E	
h ABOUT 33KM	
COL IP	08 59 21.0
BRW EP	08 59 31.3
BOZ EP	09 02 37.0
BCN EP	09 03 06.6
TUC E(P)	09 03 42.3
TUC EP	09 03 42.4
MAR 30	
BCN IP D	09 00 56.3
IS	00 59.7
EUR F(P)	09 01 49.8
EL	02 41.3
MAR 30	
H-09 05 12.7	
50.2N 177.9E	
h ABOUT 38KM	
AMC IP	09 05 38.5
COL EP	09 10 16.0
BRW EP	09 10 25.3
BOZ EP	09 13 33.0
EUR IP	09 13 40.5
BCN EP	09 14 02.5
RCD EP	09 14 18.0
TUC EP	09 14 38.8
MAR 30	
H-09 27 18.8	
52.1N 177.3E	
h ABOUT 030KM	
AMC EP	09 27 43.0
MAR 30	
COL E(P)	09 33 17.0
MAR 30	
COL EP	09 29 15.0

Date and Station	Phase (GCT)
	h m s
MAR 30	
EUR IP	09 45 55.0
IL	46 34.0
BCN EP	09 46 05.0
EL	47 08.0
MAR 30	
H-09 52 21.8	
50.9N 178.0E	
h ABOUT 43KM	
AMC EP	09 52 39.5
COL EP	09 57 20.0
BRW EP	09 57 27.5
BOZ EP	10 00 37.5
MAR 30	
H-09 54 26.7	
50.2N 177.8E	
h ABOUT 33KM	
COL E(P)	09 59 31.5
BRW EP	09 59 40.5
BOZ EP	10 02 47.2
EUR EP	10 02 55.5
TUC E(P)	10 03 53.0
MAR 30	
BRW EP	10 08 50.0
MAR 30	
BRW E(P)	10 09 40.0
MAR 30	
H-10 25 22.0	
6.4S 154.5E	
h ABOUT 70KM	
COL IP	10 37 37.3
BRW EP	10 37 45.0
EUR IP	10 38 33.2
BCN EP	10 38 36.7
MAR 30	
H-10 26 16.7	
25.0S 067.0W	
h ABOUT 120KM	
TUC EP	10 37 20.9
BCN E(P)	10 37 51.0
EUR E(P)	10 38 08.0
BOZ EP	10 38 19.0
E	38 47.0
MAR 30	
BRW EP	10 32 21.5
MAR 30	
BRW E(P)	10 39 00.0

Date and Station	Phase (GCT)
	h m s
MAR 30	
BOZ E(P)	10 59 18.0
MAR 30	
H-11 15 31.9	
50.5N 177.7E	
h ABOUT 30KM	
AMC IP	11 15 56.7
IS	16 14.9
COL EP	11 20 34.0
BRW EP	11 20 44.0
BOZ EP	11 23 52.0
EUR IP	11 24 00.7
BCN EP	11 24 22.7
MAR 30	
H-11 34 56.3	
50.3N 178.8E	
h ABOUT 57KM	
BOZ E(P)	11 43 10.0
MAR 30	
COL E(P)	11 40 19.2
MAR 30	
H-11 42 26.9	
51.6N 174.7E	
h ABOUT 20KM	
SHY IP	11 42 48.4
COL IP	11 47 34.5
BRW EP	11 47 36.0
BOZ EP	11 50 59.0
EUR IP	11 51 09.5
BCN E(P)	11 51 31.5
E	51 32.8
RCD IP	11 51 43.0
E	51 51.5
TUC EP	11 52 07.8
MAR 30	
BOZ EP	11 55 07.0
MAR 30	
COL EP	12 00 49.8
MAR 30	
BOZ EP	11 58 42.8
MAR 30	
COL EP	12 01 50.0
MAR 30	
H-12 05 36.6	
50.4N 177.5E	
h ABOUT 30KM	
AMC EP	12 06 01.2
COL EP	12 10 40.7

Date and Station	Phase (GCT)
	h m s
BOZ EP	12 13 59.5
TUC E(P)	12 15 04.2
MAR 30	
BCN IP D	12 06 43.0
IS	06 46.5
MAR 30	
H-12 10 29.5	
35.8N 135.2E	
h ABOUT 341KM	
GUA IP	12 15 15.0
E(S)	19 06.0
BRW E(pP)	12 20 04.4
COL EP	12 19 11.0
BOZ EP	12 21 56.5
EUR IP	12 22 06.2
BCN EP	12 22 20.5
RCD EP	12 22 25.4
MAR 30	
EUR EP	12 23 35.0
BCN EP	12 23 44.0
TUC E(P)	12 24 09.0
MAR 30	
AMC IP	12 33 34.1
IS	33 52.6
MAR 30	
H-12 34 59.4	
51.1N 178.2E	
h ABOUT 25KM	
SHY EP	12 35 48.7
I(S)	36 16.8
COL EP	12 39 56.0
BRW IP	12 40 03.5
EUR IP	12 43 25.6
IpP	43 33.8
BCN EP	12 43 46.5
TUC E(P)	12 44 23.5
MAR 30	
H-12 38 15.7	
50.9N 176.3E	
h ABOUT 40KM	
SHY IP	12 38 50.6
IS	39 17.5
COL EP	12 43 17.0
BRW E(P)	12 43 28.5
BOZ E(P)	12 46 39.0
EUR EP	12 46 48.7

Date and Station	Phase (GCT)
	h m s
BCN EP	12 47 13.0
TUC E(P)	12 47 47.0
MAR 30	
BOZ EP	12 41 30.5
E	41 41.0
MAR 30	
BRW EP	12 47 47.0
MAR 30	
H-12 58 29.8	
51.2N 177.5E	
h ABOUT 33KM	
AMC EP	12 58 47.5
COL E(P)	13 03 39.0
EUR IP	13 06 57.1
MAR 30	
BRW EP	13 01 03.0
MAR 30	
COL E(P)	13 16 12.1
MAR 30	
COL EP	13 22 20.5
MAR 30	
COL EP	13 34 25.6
MAR 30	
COL EP	13 35 10.0
MAR 30	
H-13 36 55.3	
50.3N 178.5E	
h ABOUT 30KM	
AMC IP	13 37 17.0
COL EP	13 41 57.0
BRW EP	13 42 09.0
BOZ EP	13 45 13.1
EUR IP	13 45 20.6
BCN EP	13 45 44.5
TUC E(P)	13 46 18.8
MAR 30	
BRW EP	14 00 45.1
BOZ EP	14 01 38.9
MAR 30	
H-14 01 00.2	
13.8N 090.8W	
h ABOUT 33KM	
TUC E(P)	14 06 32.0
E	06 45.2
BCN EP	14 07 17.0
E	07 30.0
EUR IP	14 07 42.8

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	14 08 01.0
MAR 30	
H-14 08 34.1	
50.7N 177.5E	
h ABOUT 35KM	
COL EP	14 13 35.7
BRW E(P)	14 13 41.0
BOZ EP	14 16 54.5
EUR EP	14 17 02.6
MAR 30	
BRW FP	14 19 06.3
MAR 30	
BRW FP	14 29 19.0
MAR 30	
H-14 38 31.7	
51.0N 177.8E	
h ABOUT 40KM	
COL EP	14 43 29.8
BOZ EP	14 46 48.0
EUR EP	14 46 59.1
TUC E(P)	14 48 03.7
MAR 30	
H-14 57 05.1	
50.5N 177.8E	
h ABOUT 47KM	
AMC FP	14 57 27.2
I	57 47.7
COL EP	15 02 05.0
BRW FP	15 02 15.2
BOZ EP	15 05 22.9
EUR FP	15 05 31.5
TUC E(P)	15 06 29.2
MAR 30	
H-14 58 25.1	
51.8N 179.9E	
h ABOUT 35KM	
AMC IP	14 58 36.7
COL EP	15 03 08.0
BRW FP	15 03 16.5
BOZ EP	15 06 32.2
EUR IP	15 06 40.4
BCN EP	15 07 02.5
TUC EP	15 07 39.0

Date and Station	Phase (GCT)
	h m s
MAR 30	
H-15 01 19.3	
50.7N 178.2E	
h ABOUT 33KM	
COL E(P)	15 06 18.6
BRW EP	15 06 28.5
BOZ E(P)	15 09 36.0
MAR 30	
EUR EP	15 09 44.0
MAR 30	
COL E(P)	15 05 08.3
MAR 30	
H-15 06 50.4	
50.6N 177.4E	
h ABOUT 033KM	
BOZ E(P)	15 15 11.0
MAR30	
H-15 11 41.8	
50.4N 177.5E	
h ABOUT 030KM	
AMC IP	15 12 07.9
COL EP	15 16 46.0
BRW EP	15 16 55.5
	17 22.0
MAR 30	
BOZ EP	15 20 03.5
EUR IP	15 20 11.7
BCN EP	15 20 34.0
MAR 30	
BOZ EP	15 21 31.0
MAR 30	
COL FP	15 28 18.2
MAR 30	
BRW EP	15 44 02.0
MAR 30	
SHY FP	15 46 45.8
MAR 30	
H-15 48 46.6	
50.5N 177.6E	
h ABOUT 33KM	
AMC EP	15 49 10.0
COL EP	15 53 50.0
BOZ EP	15 57 07.0
EUR EP	15 57 15.0
MAR 30	
COL EP	15 51 39.6

Date and Station	Phase (GCT)
	h m s
MAR 30	
H-15 59 34.1	
41.0N 142.7E	
h ABOUT 32KM	
BRW EP	16 07 28.0
COL IP	16 07 50.5
BUT E(P)	16 10 44.0
E	11 00.5
BOZ EP	16 10 51.1
E	15 54.0
EUR IP	16 11 01.1
SLC E(P)	16 11 10.8
BCN EP	16 11 19.8
E	11 33.0
TUC EP	16 11 45.0
F	11 57.7
ALQ IP	16 11 50.0
MAR 30	
H-16 09 02.4	
53.7N 165.6W	
h ABOUT 30KM	
COL FP	16 12 26.0
BRW EP	16 13 15.0
EUR IP	16 16 04.6
TUC F(P)	16 17 18.0
MAR 30	
H-16 10 26.3	
51.6N 170.3W	
h ABOUT 48KM	
AMC FP	16 12 02.0
COL IP	16 14 30.0
BRW IP	16 15 04.5
E	15 18.8
BOZ IP	16 17 42.9
EUR EP	16 17 50.6
BCN EP	16 18 14.2
TUC EP	16 18 52.6
ALQ IP	16 18 56.5
MAR 30	
H-16 17 33.5	
50.2N 177.9E	
h ABOUT 033KM	
AMC FP	16 17 58.1
ES	18 16.0
COL EP	16 22 15.0
BOZ EP	16 25 53.2

Date and Station	Phase (GCT)
	h m s
MAR 20	
SHY IP	16 17 26.3
MAR 30	
H-16 32 24.2	
50.3N 177.4E	
h ABOUT 33KM	
AMC IP	16 32 50.6
IS	33 09.8
COL F(P)	16 37 28.0
BRW FP	16 37 38.5
BOZ EP	16 40 46.0
EUR EP	16 40 54.2
BCN EP	16 41 16.2
MAR 30	
KIP E(P)	16 49 40.0
MAR 30	
BOZ E(P)	16 59 17.0
MAR 30	
H-17 18 56.4	
43.3N 145.7E	
h ABOUT 33KM	
BRW FP	17 26 25.0
COL IP	17 26 48.3
BOZ EP	17 29 54.0
EUR EP	17 30 04.0
BCN EP	17 30 22.8
MAR 30	
COL EP	17 25 09.0
MAR 30	
H-17 39 57.4	
50.2N 178.1E	
h ABOUT 30KM	
AMC IP	17 40 21.0
IS	40 38.0
COL EP	17 45 01.0
BRW FP	17 45 10.8
BOZ EP	17 48 17.5
TUC E(P)	17 49 23.1
F	49 32.4
MAR 30	
H-17 45 45.5	
38.5N 116.6W	
h ABOUT 33KM	
EUR IP C	17 46 04.0
BCN FP	17 46 31.0
I	46 35.3
IS	47 00.5
IL	47 10.0

Date and Station	Phase	(GCT)
		h m s
GCA	EP	17 46 50.0
MAR 30		
BOZ	E(P)	18 01 22.0
	E	01 48.0
MAR 30		
H-18 09 27.2		
50.4N 177.5E		
h ABOUT 33KM		
AMC	EP	18 09 52.0
BOZ	EP	18 17 48.5
MAR 30		
COL	IP	18 27 03.5
MAR 30		
H-19 01 27.6		
50.2N 159.4E		
h ABOUT 33KM		
BRW	EP	19 07 26.0
COL	IP	19 07 41.5
BOZ	EP	19 11 07.0
	IpP	11 18.0
EUR	IP	19 11 18.7
	IpP	11 29.2
FGU	EP	19 11 38.0
BCN	EP	19 11 39.5
	EpP	11 50.1
RCD	EP	19 11 45.5
	E	11 55.0
TUC	EP	19 12 11.8
	EpP	12 22.2
ALQ	IP	19 12 16.2
MAR 30		
H-19 14 42.8		
50.2N 177.9E		
h ABOUT 33KM		
AMC	IP	19 15 07.7
	IS	15 27.4
COL	EP	19 19 46.9
BRW	E(P)	19 19 56.0
BOZ	EP	19 23 03.2
TUC	EP	19 24 08.8
MAR 30		
SJG	IP	20 05 21.7
	IS	05 30.0
MAR 30		
H-20 09 31.2		
50.4N 177.4E		
h ABOUT 25KM		
AMC	IP	20 09 59.0
	IS	10 18.0
COL	EP	20 14 36.0
BRW	EP	20 14 46.0
BOZ	EP	20 17 54.0
TUC	EP	20 19 00.7
MAR 30		
GCA	EP	20 16 55.5
	EL	17 06.5
MAR 30		
BOZ	E(P)	20 42 51.0
MAR 30		
AMC	IP	21 11 08.7
	IS	11 27.6
MAR 30		
H-21 17 11.3		
50.4N 178.1E		
h ABOUT 23KM		
AMC	IP	21 17 34.4
	ES	17 51.4
COL	EP	21 22 15.0
BRW	EP	21 22 26.2
BOZ	EP	21 25 31.5
EUR	IP	21 25 39.7
MAR 30		
BOZ	E(P)	21 28 27.0
MAR 30		
H-21 29 05.1		
50.4N 177.5E		
h ABOUT 33KM		
AMC	IP	21 29 31.2
	IS	29 50.2
BRW	EP	21 34 18.4
MAR 30		
GCA	IP	21 35 04.5
MAR 30		
AMC	IP	21 45 39.5
	IS	45 55.5
MAR 30		
AMC	IP	23 07 44.8
MAR 30		
H-22 08 50.6		
21.0S 173.6W		
h ABOUT 33KM		
COL	EP	22 21 37.0
MAR 30		
ALQ	IP	22 15 54.5
MAR 30		
COL	EP	22 43 11.0
MAR 30		
BOZ	EP	23 34 26.0
MAR 31		
AMC	IP	00 09 44.8
	IS	10 04.8
MAR 31		
H-00 29 46.1		
50.5N 177.8E		
h ABOUT 33KM		
BOZ	EP	00 38 06.0
TUC	E(P)	00 39 13.0
MAR 31		
H-00 33 36.7		
51.3N 176.0E		
h ABOUT 35KM		
SHY	EP	00 34 06.3
	ES	34 30.9
AMC	EP	00 34 08.3
	IS	34 33.3
COL	EP	00 38 41.0
BOZ	E(P)	00 42 01.0
EUR	IP	00 42 11.7
TUC	EP	00 43 09.6
MAR 31		
H-00 34 52.7		
51.3N 176.5E		
h ABOUT 30KM		
AMC	EP	00 35 22.4
	ES	35 41.9
BOZ	EP	00 43 18.0
TUC	E(P)	00 44 24.4
	E	44 32.7
MAR 31		
H-00 57 11.8		
19.3N 105.9W		
h ABOUT 33KM		
TUC	EP	01 00 24.5
ALQ	IP	01 00 51.0
EUR	EP	01 02 04.7
MAR 31		
KIP	EP	01 40 15.0
MAR 31		
AMC	IP	03 29 18.5
	IS	29 40.8
MAR 31		
H-02 20 04.1		
51.8N 178.4E		
h ABOUT 033KM		
AMC	IP	02 20 16.3
	I	20 36.0
MAR 31		
H-04 29 25.0		
51.6N 175.6E		
h ABOUT 61KM		
SHY	IP	04 29 49.9
	ES	30 12.2
AMC	EP	04 30 01.8
	ES	30 30.1
COL	EP	04 34 25.0
BRW	EP	04 34 28.8
BOZ	E(P)	04 37 47.0
EUR	EP	04 37 57.1
MAR 31		
H-05 04 14.2		
50.5N 178.2E		
h ABOUT 35KM		
AMC	IP	05 04 34.4
COL	EP	05 09 14.0
BOZ	E	05 12 22.0
EUR	EP	05 12 40.0
MAR 31		
H-05 34 19.0		
50.9N 176.6E		
h ABOUT 33KM		
AMC	IP	05 34 47.7
	IS	35 10.9
COL	EP	05 39 23.0
BOZ	EP	05 42 43.0
EUR	EP	05 42 52.2
MAR 31		
COL	E(P)	05 57 03.7
MAR 31		
COL	E(P)	06 10 10.0
MAR 31		
H-06 26 38.5		
52.1N 176.2E		
h ABOUT 35KM		
SHY	IP	06 27 02.7
	ES	27 23.0
AMC	EP	06 27 13.5
	ES	27 40.5
COL	EP	06 31 33.8
BRW	EP	06 31 41.1
BOZ	EP	06 35 02.0
EUR	IP	06 35 10.2
TUC	EP	06 36 09.2

Date and Station	Phase (GCT)
	h m s
MAR 31	
COL EP	06 37 18.4
MAR 31	
COL EP	06 45 53.2
MAR 31	
H-06 46 13.0	
50.4N 177.7E	
h ABOUT 33KM	
AMC IP	06 46 36.5
IS	46 54.5
BOZ E(P)	06 54 27.0
MAR 31	
H-08 21 28.5	
51.4N 178.3E	
h ABOUT 44KM	
AMC IP	08 21 41.3
I	21 53.8
SHY EP	08 22 13.3
ES	22 50.1
COL EP	08 26 21.0
BRW IP	08 26 31.0
BOZ EP	08 29 41.5
EUR IP	08 29 51.1
BCN EP	08 30 13.5
RCD EP	08 30 27.0
E	30 38.0
TUC EP	08 30 49.8
SJG EP	08 34 29.5
FpP	34 40.0
MAR 31	
H-08 58 38.7	
51.1N 176.6E	
h ABOUT 30KM	
AMC IP	08 59 07.2
IS	59 29.4
COL EP	09 03 42.0
BOZ EP	09 07 03.0
MAR 31	
H-09 47 30.7	
38.6N 022.4E	
h ABOUT 78KM	
BRW IP	09 58 39.3
EPP	10 01 22.0
E	07 54.7
P'P'	26 16.0
PHI EP	09 58 48.6
I	10 07 56.4
WSC IP	09 58 54.8
WAS IP	09 58 56.0

Date and Station	Phase (GCT)
	h m s
COL IP C	09 59 14.4
I	59 16.9
EPP	10 02 11.3
ESCS	09 02.0
EPKKP	18 24.0
P'P'	26 01.2
SKPP'	29 34.0
SJG IP	09 59 20.0
IpP	59 39.8
ISCS	10 09 118
EsS	09 38.0
EP'P'	26 10.5
EP'P'	27 03.4
CSC IP	09 59 26.0
E	59 36.0
ES	09 18.0
SIT EP	09 59 48.5
RCD IP C	09 59 54.0
E	10 00 00.0
SHY EP	10 00 02.8
BUT IP C	10 00 06.7
ES	10 40.7
BOZ IP C	10 00 07.0
E	00 35.5
EP'P'	26 07.0
FGU IP	10 00 20.2
SLC IP	10 00 25.7
ALQ IP	10 00 36.2
EUR IP C	10 00 39.3
EPP	04 16.0
ESP	12 51.0
GCA IP	10 00 40.0
BCN EP C	10 00 51.0
EPP	04 45.8
EPPP	06 53.0
EPS	13 30.0
EPKKP	17 38.0
P'P'	25 44.0
P'P'	25 52.0
TUC IP C	10 00 56.0
E	01 25.0
ESKS	11 31.1
GUA E(P)	10 01 31.0
ESKS	12 05.0
KIP EP'	10 06 17.0
EPS	17 38.0
MAR 31	
H-10 46 08.6	
50.3N 178.2E	
h ABOUT 30KM	
AMC IP	10 46 30.6
E	46 42.1
SHY EP	10 47 04.0
IS	47 43.2

Date and Station	Phase (GCT)
	h m s
COL EP	10 51 10.0
BRW IP	10 51 21.7
BUT EP	10 54 21.2
BOZ EP	10 54 27.0
I	54 38.2
EUR IP	10 54 34.8
BCN EP	10 54 56.5
EpP	55 04.5
FGU E(P)	10 54 59.0
RCD EP	10 55 12.0
EpP	55 20.0
ES	10 06.0
TUC EP	10 55 32.3
IpP	55 42.1
ALQ IP	10 55 40.0
SJG FP	10 59 14.0
MAR 31	
SJG EP	10 58 08.0
MAR 31	
BOZ EP	11 03 30.0
MAR 31	
TUC F(P)	11 28 37.0
MAR 31	
BOZ EP	11 32 58.7
MAR 31	
H-12 01 10.3	
38.3N 022.0E	
h ABOUT 74KM	
COL FP	12 12 53.0
BOZ EP	12 13 48.2
FpP	14 07.5
MAR 31	
H-12 07 56.2	
51.7N 176.9E	
h ABOUT 40KM	
AMC EP	12 08 21.4
BOZ E(P)	12 16 14.0
EUR IP	12 16 24.8
MAR 31	
EUR IP	12 23 56.6
MAR 31	
BOZ E(P)	12 39 23.0
MAR 31	
H-12 40 56.1	
50.7N 178.4E	
h ABOUT 33KM	
AMC EP	12 41 13.5
BOZ EP	12 49 11.5

Date and Station	Phase (GCT)
	h m s
MAR 31	
H-13 23 25.5	
50.2N 177.9E	
h ABOUT 35KM	
AMC IP	13 23 49.9
IS	24 08.4
COL EP	13 28 28.0
BRW EP	13 28 39.5
BOZ EP	13 31 45.7
EpP	31 57.0
EUR IP	13 31 53.3
IpP	32 05.8
BCN FP	13 32 15.0
TUC FP	13 32 51.8
MAR 31	
SHY EP	13 24 37.1
MAR 31	
AMC IP	13 48 45.4
IS	49 03.9
SHY IP	13 48 50.7
MAR 31	
H-14 23 51.7	
51.0N 176.6E	
h ABOUT 33KM	
AMC EP	14 24 19.7
COL E(P)	14 28 55.2
BOZ EP	14 32 14.0
EUR EP	14 32 24.6
MAR 31	
H-15 04 12.9	
50.7N 177.4E	
h ABOUT 35KM	
AMC EP	15 04 35.8
COL E(P)	15 09 15.0
BOZ EP	15 12 33.5
EUR IP	15 12 44.3
MAR 31	
H-15 20 03.5	
50.2N 178.7E	
h ABOUT 33KM	
AMC IP	15 20 23.8
COL FP	15 25 03.9
BRW FP	15 25 16.5
BOZ EP	15 28 19.0
EUR IP	15 28 27.2
BCN F(P)	15 28 49.0

Date and Station	Phase (GCT)
	h m s
TUC EP	15 29 25.0
MAR 31	
H-15 25 47.0	
50.3N 178.7E	
h ABOUT 30KM	
AMC IP	15 26 08.1
IS	26 24.2
COL EP	15 30 47.8
BOZ EP	15 34 03.8
EUR IP	15 34 11.1
TUC EP	15 35 09.2
MAR 31	
BOZ EP	15 26 26.0
MAR 31	
COL EP	15 48 42.0
MAR 31	
H-15 49 09.4	
50.9N 178.9E	
h ABOUT 25KM	
AMC EP	15 49 21.0
COL EP	15 54 07.0
BOZ EP	15 57 25.9
TUC EP	15 58 30.5
MAR 31	
H-15 54 32.7	
50.5N 177.4E	
h ABOUT 30KM	
AMC IP	15 54 57.9
IS	55 16.9
COL EP	15 59 37.0
BOZ EP	16 02 54.5
FUR EP	16 03 02.0
TUC EP	16 04 01.2
E	04 08.0
MAR 31	
H-16 16 13.8	
50.8N 175.4E	
h ABOUT 33KM	
SHY I(P)	16 16 45.1
AMC IP	16 16 53.2
COL EP	16 21 24.0
MAR 31	
AMC IP	16 46 20.3
IS	46 32.8
MAR 31	
H-16 47 27.1	
65.1N 150.6W	
h ABOUT 31KM	

Date and Station	Phase (GCT)
	h m s
COL IP	16 47 48.6
BRW EP C	16 49 04.5
E(S)	52 05.0
MAR 31	
BOZ E(P)	16 47 45.0
MAR 31	
H-16 50 13.8	
01.9S 077.0W	
h ABOUT 130KM	
ALQ IP	16 58 25.9
BOZ EP	16 59 43.0
E	17 00 21.0
COL EP	17 02 29.4
MAR 31	
AMC EP	1 58 45.4
IS	59 05.2
MAR 31	
BOZ E(P)	17 06 43.0
MAR 31	
H-17 09 24.4	
51.7N 174.6E	
h ABOUT 39KM	
SHY IP	17 09 43.3
ES	09 59.4
COL EP	17 14 30.0
BRW EP	17 14 33.0
E	14 38.5
BOZ EP	17 17 53.5
EUR EP	17 18 04.4
BCN EP	17 18 27.5
TUC EP	17 19 02.5
E	19 15.0
MAR 31	
H-17 15 02.0	
50.4N 177.7E	
h ABOUT 33KM	
AMC IP	17 15 25.4
IS	15 44.9
COL EP	17 20 05.3
BOZ EP	17 23 22.0
FUR EP	17 23 30.1
TUC E(P)	17 24 28.0
MAR 31	
AMC IP	17 37 40.9
COL EP	17 42 29.5
BOZ EP	17 45 37.5
E	45 55.0

Date and Station	Phase (GCT)
	h m s
MAR 31	
AMC IP	18 13 20.5
MAR 31	
BOZ EP	18 58 49.0
MAR 31	
BOZ E(P)	19 04 05.0
MAR 31	
AMC EP	19 06 51.3
IS	07 10.3
MAR 31	
BOZ EP	19 12 46.8
MAR 31	
TUC EP	19 15 53.3
E	16 02.0
MAR 31	
BOZ EP	19 15 52.2
MAR 31	
H-19 38 08.2	
50.5N 177.7E	
h ABOUT 47KM	
AMC IP	19 38 31.1
E	38 50.3
COL EP	19 43 09.0
EUR IP	19 46 35.0
BCN EP	19 46 56.5
TUC EP	19 47 33.0
MAR 31	
H-19 48 29.7	
50.3N 178.0E	
h ABOUT 25KM	
AMC IP	19 48 53.2
COL EP	19 53 33.0
BOZ EP	19 56 54.5
I	57 01.0
E	57 06.0
FUR IP	19 56 58.2
BCN EP	19 57 19.0
EpP	57 28.0
TUC EP	19 57 56.0
ALQ I(P)	19 58 02.8
MAR 31	
H-20 08 25.6	
39.4N 024.1E	
h ABOUT 33KM	
BOZ EP	20 21 07.5
MAR 31	
H-20 22 55.7	
23.9S 070.6W	
h ABOUT 33KM	
ALQ IP	20 33 52.9

Date and Station	Phase (GCT)
	h m s
TUC EP	20 33 54.0
BOZ EP	20 34 55.0
MAR 31	
BOZ FP	20 26 03.0
MAR 31	
SHY EP	21 09 39.5
MAR 31	
H-21 09 50.4	
50.8N 179.1E	
h ABOUT 33KM	
BOZ E(P)	21 18 00.0
TUC E(P)	21 19 08.7
MAR 31	
H-21 13 30.1	
50.2N 177.9E	
h ABOUT 30KM	
SHY FP	21 14 24.0
COL EP	21 18 34.5
BRW EP	21 18 45.5
BOZ EP	21 21 49.2
EUR IP	21 21 58.2
TUC EP	21 22 56.1
E	23 06.0
MAR 31	
SHY EP	21 13 52.5
MAR 31	
H-21 22 51.1	
50.3N 178.2E	
h ABOUT 30KM	
AMC FP	21 23 13.0
BOZ EP	21 31 10.0
MAR 31	
BOZ E(P)	21 54 49.0
MAR 31	
GCA FP	22 11 01.6
FS	11 36.4
MAR 31	
RCD E(P)	22 14 13.7
BOZ E(P)	22 15 19.0
MAR 31	
AMC IP	22 31 22.0
FS	31 40.0
MAR 31	
H-22 32 31.9	
50.4N 177.5E	
h ABOUT 30KM	
AMC IP	22 32 52.9
ES	33 06.0

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
SHY EP	22 33 21.5						
IS	33 56.6						
COL EP	22 37 35.0						
BRW EP	22 37 45.5						
BOZ EP	22 40 52.0						
FUR IP	22 41 02.0						
SLC FP	22 41 16.4						
BCN EP	22 41 24.0						
E>P	41 32.0						
RCD E(P)	22 41 40.0						
TUC E(P)	22 42 00.0						
ALQ I(P)	22 42 07.5						
MAR 31							
COL EP	22 35 45.0						
EUR IP	22 38 38.0						
MAR 31							
BOZ EP	22 51 28.0						
MAR 31							
BOZ EP	23 02 13.0						
E	02 32.0						
MAR 31							
H-23 31 42.9							
52.4N 171.3E							
h ABOUT 30KM							
SHY EP	23 32 11.9						
ES	32 31.3						
BRW EP	23 36 53.1						
COL EP	23 36 57.0						
BOZ E(P)	23 40 25.0						
MAR 31							
H-23 48 22.3							
50.3N 177.7E							
h ABOUT 025KM							
AMC EP	23 48 47.9						
ES	49 05.0						
MAR 31							
AMC IP	23 53 22.2						
IS	53 39.7						