USCGS
.40

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

SEISMOLOGICAL BULLETIN

MARCH 1967

MSI 315

GEOPHYSICAL SCIENCES LIBRARY

CONTENTS

List of Stations..... i
Provisional Epicenters..... 1
Seismogram Interpretations..... 11

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

1969

FOR OFFICIAL DISTRIBUTION

National Oceanic and Atmospheric Administration

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This has been a co-operative project between the NOAA Central Library and the Climate Database Modernization Program, National Climate Data Center (NCDC). To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or Library.Reference@noaa.gov

HOV Services
Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 4, 2011

SEISMOLOGICAL BULLETIN

1967

SEISMOGRAPH STATIONS

STATION	CODE	LATITUDE	LONGITUDE	ELEVATION (M)	FOUNDATION	REMARKS
Adak, Alaska	ADK	51°53'01.4"N	176°34'49.4"W	117	Volcanic	SPZ telemetered to Palmer, Alaska. Part of Alaska Tsunami Warning System.
Albuquerque, New Mexico	ALQ	34°56'30" N	106°27'30" W	1853	Granite	
Balboa Heights, Canal Zone	BHP	8°57'39" N	79°33'29" W	36	Rhyolite	Operated by the Panama Canal Company.
Barrow, Alaska	BRW	71°18'12" N	156°44'54" W		Silt over Sand	
Biorka, Alaska	BIO	56°51'06" N	135°33'30" W	61		Telemetered to Sitka and Palmer, Alaska. Part of Alaska Tsunami Warning System.
Blue Mountains Obsy., Oregon	BMO	44°50'56" N	117°18'20" W	1189	Granite	Multi-Element Array. Geographic coordinates at seismometer Z3.
Boulder City, Nevada	BCN	35°58'51" N	114°50'02" W	776	Fractured Monzonite	Operated by Bureau of Reclamation.
Bozeman, Montana	BZM	45°40'01" N	111°02'43" W	1490	Alluvium	Operated by Montana State College.
Bozeman, Montana	BOZ	45°36'00" N	111°37'55" W	1575	Granite Gneiss	Operated by Montana State College.
Butte, Montana	BUT	46°00'48" N	112°33'48" W	1758	Rhyolite	Operated by Montana School of Mines.
Cedar Springs, California	CED	34°16'38" N	117°20'03" W	1067		Operated by Calif. Dept. of Water Resources. Closed 7/1/67.
College Outpost, Alaska	COL	64°54'00" N	147°47'36" W	312	Schist	
College, Alaska	CMO	64°51'36" N	147°50'06" W	180	Schist	
Columbia, South Carolina	CSC	34°00'00" N	81°02'00" W	94	Consolidated Sand	Operated by University of South Carolina.
Cumberland Plateau Obsy., Tenn.	CPO	35°35'41" N	85°34'13" W	574	Sandstone/ Limestone	Multi-Element Array. Geographic coordinates at seismometer Z8.
Eureka, Nevada	EUR	39°29'00" N	115°58'12" W	2278	Dolomite	Operated by Eureka Corporation Limited.
Flaming Gorge, Utah	FGU	40°55'36" N	109°23'20" W	1982	Quartzite	Operated by Bureau of Reclamation.
Fort Barrette, Hawaii	BAH	21°20'23.0"N	158°04'37.8"W	50	Basalt	Telemetered to the Honolulu Observatory.
Gilmore Creek, Alaska	GIL	64°58'30" N	147°29'42" W	350	Schist	Telemetered to Palmer, Alaska. Part of Alaska Tsunami Warning System.
Glen Canyon, Arizona	GCA	36°58'25" N	111°35'35" W	1339	Sandstone	Operated by Bureau of Reclamation.
Guam, Mariana Island	GUA	13°32'18" N	144°54'42" E	230	Volcanic Tuff	
Honolulu, Hawaii	HON	21°18'13" N	158°05'44" W	3	Coral	Headquarters of Pacific Tsunami Warning System.
Hungry Horse, Montana	HHM	48°20'58" N	114°01'39" W	1100	Limestone	Operated by Bureau of Reclamation.
Kaena Point, Hawaii	KPH	21°34'34.1"N	158°16'31.6"W	150	Basalt	Telemetered to the Honolulu Observatory.
Kipapa, Hawaii	KIP	21°25'24" N	158°00'54" W	70	Basalt	

STATION	CODE	LATITUDE	LONGITUDE	ELEVATION (M)	FOUNDATION	REMARKS
Kodiak, Alaska	KDC	57°44'52.2"N	152°29'30" W	20	Alluvium	Telemetered to Palmer, Alaska. Part of Alaska Tsunami Warning System.
Las Vegas, Nevada	LVN	36°06'33" N	115°08'24" W	610	Alluvium	
Middleton Island, Alaska	MID	59°25'40.2"N	146°20'20.4"W		Sandstone	
Mokapu, Hawaii	MOK	21°27'23.4"N	157°44'11.5"W	120	Volcanic Tuff	Telemetered to the Honolulu Observatory.
Newport, Washington	NEW	48°15'48" N	117°07'12" W	762	Volcanic Slate	
Nordman, Idaho	NTI	48°37'48" N	116°57'48" W	823		Telemetered to the Newport Observatory.
Opana, Hawaii	OPA	21°41'26" N	158°00'43" W	150	Basalt	Telemetered to the Honolulu Observatory.
Palmer, Alaska	PMR	61°35'30" N	149°07'52" W	49	Volcanic	Headquarters of the Alaska Tsunami Warning System.
Palmer (South), Alaska	PMS	61°14'41" N	149°33'38" W	716		Telemetered to Palmer, Alaska. Part of Alaska Tsunami Warning System.
Palmer (West), Alaska	PWA	61°39'03" N	149°52'43" W	137	Alluvium	Telemetered to Palmer, Alaska. Part of Alaska Tsunami Warning System.
Philadelphia, Pennsylvania	PHI	39°57'32" N	75°10'30" W	5	Sand	Operated by the Franklin Institute.
Salt Lake City, Utah	SLC	40°45'55" N	111°50'54" W	1425	Lava Beds	Operated by University of Utah.
San Juan Geophysical Obsy., Puerto Rico	SJG	18°06'42" N	66°09'00" W	457	Volcanic Breccia	
San Luis Dam, California	SLD	37°04'29" N	121°13'14" W	443	Franciscan Formation	Operated by Bureau of Reclamation.
Sitka, Alaska	SIT	57°03'25" N	135°19'28" W	19	Graywacke	Telemetered to Palmer, Alaska. Part of Alaska Tsunami Warning System.
Tucson, Arizona	TUC	32°18'35" N	110°46'56" W	985	Granite	
Tucson Obsy., Arizona	TUO	32°14'48" N	110°50'06" W	770	Caliche	
Ukiah, California	UKI	39°08'14" N	123°12'38" W	199	Alluvium	International Latitude Observatory.
Washington, D.C.	WAS	38°53'33" N	77°01'59" W	0	Alluvium	
Washington Science Center, Maryland	WSC	39°03'01.8"N	77°07'25.2"W	120	Pelitic Schist	Headquarters of the National Earthquake Information Center.

Data on the Seismograph Stations in the Antarctic are published in our Antarctic Bulletins issued quarterly. 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 epicenter, origin times and focal depths have been calculated with the use of an electronic computer. The epicenters quoted in this bulletin are recomputations of those previously reported on the Preliminary Determination of Epicenter cards with the addition of some new epicenters.

Origin times followed by an asterisk indicate that the epicenters have been determined with incomplete or less reliable data such that we do not consider them as accurate as the computer solution would seem to indicate. Depth of focus may be restrained to normal (N) corresponding to 33km when the depth is poorly determined for shallow or small earthquakes. A depth followed by G indicates it has been restrained by the Geophysicist. D following the depth indicates it has been restrained to agree with reported depth phases.

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE
SERVICES ADMINISTRATION

COAST AND GEODETIC SURVEY
DON A. JONES DIRECTOR
ROCKVILLE, MARYLAND 20852

MARCH 1967

MAR	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM		CGS MAG MB	SD	N
1	01	20	04.9	25.4	N	109.7	W	GULF OF CALIFORNIA	N		4.4	1.4	25
1	04	38	21.5*	6.3	S	149.2	E	NEW BRITAIN REGION	62			1.9	5
1	05	04	18.1*	9.6	N	122.3	E	NEGROS, PHILIPPINE ISLANDS	67		5.6	1.3	9
1	06	10	19.0	34.2	N	116.8	W	SOUTHERN CALIFORNIA 34°11.3'N., 116°45.3'W. DEPTH 12.6 KM. HYPOCENTER BY PASADENA. MAG. 3 3/4 (PAS), 4.4-4.8 (BRK).	13		4.7		26
1	06	37	06.9*	24.7	S	111.4	W	EASTER ISLAND REGION	N		4.1	1.5	5
1	09	21	33.0	30.4	N	140.4	E	SOUTH OF HONSHU, JAPAN	157		3.7	0.2	7
1	10	12	48.1	28.0	N	56.8	E	SOUTHERN IRAN	N		5.1	1.2	53
1	11	51	34.7	63.0	N	151.3	W	CENTRAL ALASKA	127		4.0	0.9	14
1	14	24	26.3	1.6	N	126.4	E	MOLUCCA PASSAGE	43		5.3	1.3	77
1	18	39	54.5	36.6	N	138.3	E	HONSHU, JAPAN	6		4.6	1.2	34
1	19	34	32.6*	36.7	N	138.3	E	HONSHU, JAPAN	N			1.8	5
1	20	33	38.0	19.4	S	69.6	W	NORTHERN CHILE	174		3.8	0.9	6
1	22	16	35.4	51.2	N	179.3	W	ANDREANOF ISLANDS, ALEUTIAN IS.	79		5.3	0.9	85
2	01	11	45.7*	61.7	N	151.8	W	SOUTHERN ALASKA	N		3.9	0.9	7
2	01	27	50.8	49.2	S	164.0	E	AUCKLAND ISLANDS REGION	N			1.5	14
2	02	47	32.4	0.2	S	78.6	W	ECUADOR MAG. 4.8-5.2 (BRK).	124		5.8	1.0	156
2	03	25	26.5	31.1	N	131.6	E	KYUSHU, JAPAN	N		4.4	1.6	10
2	05	58	20.1*	24.4	S	179.4	W	SOUTH OF FIJI ISLANDS	388		4.4	0.8	23
2	06	29	24.4	34.5	N	111.0	W	EASTERN ARIZONA	14		3.9	1.2	12
2	07	10	55.9	40.4	N	124.7	W	NEAR COAST OF NORTHERN CALIF. FELT AT PETROLIA, EUREKA, AND SCOTIA. MAG. 4.0 (BRK).	27		4.6	1.2	16
2	07	55	24.6	32.0	N	55.8	E	IRAN	N		4.9	1.5	21
2	08	17	44.2	35.6	N	140.0	E	NEAR EAST COAST OF HONSHU, JAPAN THREE INJURED IN TOKYO AREA.	73	D	4.8	1.1	62
2	08	18	04.3	49.2	N	157.9	E	KURILE ISLANDS REGION	N		4.2	1.0	12
2	09	51	43.6	41.7	N	71.4	E	KIRGIZ SSR	26		4.3	1.9	25
2	11	47	12.7	28.7	N	86.4	E	TIBET	23		4.9	1.3	10
2	13	21	41.7	21.3	N	108.8	W	REVILLA GIGEDO ISLANDS REGION MAG. 4.4-4.8 (BRK).	N		4.7	1.1	36
2	14	12	49.7	36.3	N	117.8	W	CALIFORNIA-NEVADA BORDER REGION FELT IN SOUTHERN INYO COUNTY. MAG. 4 1/4-4 1/2 (PAS), 4.5 (BRK).	12		4.7	1.2	33
2	15	00	00.0	37.1	N	116.0	W	SOUTHERN NEVADA 37°09'57"N. 116°02'55"W. NEVADA TEST SITE "RIVET III". SHOT ELEVATION 1027.5 METERS (AEC).			4.2		29
2	16	19	52.2*	15.4	S	167.8	E	NEW HEBRIDES ISLANDS	29			0.2	5
2	18	11	32.2*	16.5	N	99.5	W	NEAR COAST OF GUERRERO, MEXICO	43		4.3	1.4	11
2	20	47	40.3	52.3	N	160.6	E	OFF EAST COAST OF KAMCHATKA	36	D	4.8	1.1	111
2	23	03	44.7	53.6	N	160.6	E	NEAR EAST COAST OF KAMCHATKA	64		5.2	1.1	117
2	23	17	17.8	15.4	N	96.4	W	NEAR COAST OF OAXACA, MEXICO	34		4.0	1.7	8
3	01	00	19.0	14.5	N	92.2	W	NEAR COAST OF CHIAPAS, MEXICO	27		4.2	1.2	14
3	01	32	43.0	37.5	N	20.9	E	IONIAN SEA FELT ON ZANTE ISLAND AND IN THE ELIS REGION.	40			1.6	17
3	02	30	08.0	22.1	S	69.5	W	NORTHERN CHILE	116		4.1	1.3	12
3	03	01	37.9	34.5	S	99.4	W	WEST CHILE RISE	N		4.4	1.0	14
3	03	02	00.0	61.9	N	151.4	W	SOUTHERN ALASKA	76		3.9	0.7	12
3	05	48	53.3	5.3	S	68.4	E	CHAGOS ARCHIPELAGO REGION	24	D	4.8	1.0	39
3	07	36	28.8*	30.2	N	50.4	E	IRAN	N			1.8	6
3	08	52	47.3	0.4	S	129.7	E	HALMAHERA	N		5.1	1.2	27
3	09	22	25.3	0.7	S	129.6	E	HALMAHERA	N		4.7	1.7	10
3	09	32	32.4*	12.2	S	166.4	E	SANTA CRUZ ISLANDS	N			1.7	6
3	12	43	58.8*	50.2	S	139.1	E	SOUTH OF AUSTRALIA	N			1.6	9
3	12	45	57.6*	50.3	S	139.8	E	SOUTH OF AUSTRALIA	N		5.1	1.0	12

MAR	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
3	14	40	13.9	50.2	S	139.7	E	SOUTH OF AUSTRALIA	34	4.7	1.2	18
3	15	01	04.0*	6.9	S	106.2	E	JAVA	N	5.0	1.2	15
3	19	39	46.3*	13.1	N	90.4	W	NEAR COAST OF GUATEMALA	65	4.0	1.4	8
3	20	49	47.3	19.0	S	169.2	E	NEW HEBRIDES ISLANDS	219	4.5	1.2	17
4	00	00	20.9*	43.9	N	12.9	E	CENTRAL ITALY	N	3.8	1.0	5
4	00	21	39.5	18.4	S	169.0	E	NEW HEBRIDES ISLANDS	211	4.6	1.1	11
4	01	12	31.9	24.8	N	121.9	E	TAIWAN	72	4.8	1.0	28
4	05	09	23.9	21.4	N	121.9	E	TAIWAN REGION	126 D	5.5	1.2	176
4	06	16	22.7	18.5	S	175.4	W	TONGA ISLANDS MAG. 4.9-5.3 (BRK).	227 D	5.5	1.1	166
4	07	04	29.3	16.0	N	98.6	W	NEAR COAST OF GUERRERO, MEXICO	53	3.8	1.0	7
4	10	15	30.6	11.7	S	165.4	E	SANTA CRUZ ISLANDS	N	4.4	1.4	9
4	10	43	17.3	11.3	S	165.7	E	SANTA CRUZ ISLANDS	29	4.4	0.6	11
4	10	45	40.3	11.4	S	165.7	E	SANTA CRUZ ISLANDS	45	4.7	1.2	14
4	13	08	36.7	32.6	N	141.1	E	SOUTH OF HONSHU, JAPAN	65	4.2	0.5	11
4	14	18	44.5	36.8	N	71.0	E	AFGHANISTAN-USSR BORDER REGION	45	5.2	1.0	10
4	14	59	38.6	52.0	N	170.5	W	FOX ISLANDS, ALEUTIAN ISLANDS	36	4.5	1.1	43
4	17	23	16.6	19.0	S	174.0	W	TONGA ISLANDS	24	4.7	1.5	19
4	17	58	06.2	39.2	N	24.6	E	AEGEAN SEA FELT IN GREECE, WESTERN TURKEY AND SOFIA, BULGARIA. MAG. 6 3/4-7 (PAS), 6.5-6.7 (BRK).	N	5.8	1.3	214
4	18	38	00.9	39.0	N	24.7	E	AEGEAN SEA	15	4.4	1.1	29
4	22	41	16.2	7.9	N	146.2	E	CAROLINE ISLANDS REGION	N	5.2	1.1	45
5	00	59	38.0	39.1	N	24.8	E	AEGEAN SEA	N		1.7	14
5	01	30	25.0	21.6	S	68.2	W	CHILE-BOLIVIA BORDER REGION	133	4.0	1.4	7
5	01	46	05.8	39.1	N	24.6	E	AEGEAN SEA	N		0.6	7
5	02	44	04.7	39.1	N	24.6	E	AEGEAN SEA	N		0.4	5
5	03	51	08.9	39.2	N	24.6	E	AEGEAN SEA	N		1.0	7
5	05	20	53.7	6.4	S	149.6	E	NEW BRITAIN REGION	62		0.0	5
5	05	40	23.9	41.3	N	111.7	W	UTAH FELT IN OGDEN VALLEY AND WEBER CANYON.	11	3.5	1.1	8
5	09	55	18.1	46.6	N	152.8	E	KURILE ISLANDS	62	4.5	0.9	31
5	10	13	30.1	1.4	S	77.8	W	ECUADOR	213	3.7	0.4	10
5	11	10	59.3*	50.9	N	130.4	W	VANCOUVER ISLAND REGION	N	3.8	1.3	8
5	16	34	25.6*	39.2	N	28.6	E	TURKEY	N		2.1	5
5	17	22	54.5	45.8	N	26.8	E	RUMANIA	131	4.4	1.3	32
5	18	54	20.5	45.3	N	26.0	E	RUMANIA	64	4.1	1.3	13
5	21	30	47.5*	39.6	N	117.9	W	NEVADA MAG. 3.7 (BRK).	N	4.0	0.7	5
5	21	36	32.2	8.4	N	103.9	W	OFF COAST OF MEXICO	N	4.3	0.8	15
6	01	05	42.9*	0.6	N	30.9	W	CENTRAL MID-ATLANTIC RIDGE	N	4.4	1.0	7
6	02	41	58.5	3.9	N	126.5	E	TALAUD ISLANDS	80	5.2	1.1	33
6	04	40	17.1	30.6	N	137.7	E	SOUTH OF HONSHU, JAPAN	478	5.1	1.0	146
6	08	11	58.6	22.9	S	177.3	W	SOUTH OF FIJI ISLANDS	227 D	4.8	1.2	57
6	09	45	49.2	45.8	N	148.6	E	KURILE ISLANDS	186	4.2	0.5	17
6	11	28	49.3	3.8	N	95.8	E	OFF W. COAST OF NORTHERN SUMATRA	55	5.1	1.1	86
6	11	36	37.7	52.5	N	169.6	W	FOX ISLANDS, ALEUTIAN ISLANDS	10	4.0	1.1	17
6	12	01	05.6*	8.7	S	108.6	W	NORTHERN EASTER I. CORDILLERA	N	4.3	1.0	7
6	12	39	27.6*	55.6	S	146.0	E	WEST OF MACQUARIE ISLAND	33		0.6	8
6	17	14	13.4	11.1	S	166.2	E	SANTA CRUZ ISLANDS	52	4.2	1.5	7
6	19	56	39.6	45.0	N	147.7	E	KURILE ISLANDS	133	4.5	1.0	22
6	20	35	15.1	4.1	S	129.6	E	BANDA SEA	N	5.0	1.1	27
6	20	51	50.8*	3.6	S	129.3	E	CERAM	N		1.5	6
6	23	30	45.7	10.9	S	166.3	E	SANTA CRUZ ISLANDS	44	5.1	0.9	17
6	23	31	25.6*	12.4	N	87.1	W	NEAR COAST OF NICARAGUA	159	4.1	0.7	8
7	00	04	50.6*	11.0	S	166.3	E	SANTA CRUZ ISLANDS	64	4.4	1.1	6
7	03	44	05.3	10.8	S	166.2	E	SANTA CRUZ ISLANDS	32	4.9	1.1	18
7	03	51	08.4	47.8	N	122.7	W	WASHINGTON	35	4.2	1.8	23
7	04	21	09.7	16.5	S	174.6	W	TONGA ISLANDS	173	4.4	0.8	20
7	04	41	18.1	22.0	N	144.1	E	VOLCANO ISLANDS REGION	143	4.5	0.9	29
7	07	18	34.1	7.8	N	36.5	W	CENTRAL MID-ATLANTIC RIDGE	N	4.4	1.1	22
7	08	00	33.5	43.3	N	17.4	E	YUGOSLAVIA FELT AT MOSTAR.	N	4.2	1.7	21
7	08	06	30.2	31.3	S	68.7	W	SAN JUAN PROVINCE, ARGENTINA FELT AT SAN JUAN.	115	4.1	1.2	12
7	08	29	13.6*	23.7	N	143.9	E	VOLCANO ISLANDS REGION	161	4.4	0.8	23

MAR	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM		CGS MAG MB	SD	N
7	09	03	07.5	6.9	N	73.0	W	NORTHERN COLOMBIA	164		4.2	0.8	9
7	11	39	35.8	38.4	N	142.1	E	NEAR EAST COAST OF HONSHU, JAPAN	N		4.0	0.7	9
7	13	47	31.7	4.1	S	129.7	E	BANDA SEA	51		5.1	1.1	21
7	15	27	25.9	13.7	S	167.6	E	NEW HEBRIDES ISLANDS	183		4.4	1.9	8
7	15	29	20.3*	20.5	S	67.4	W	SOUTHERN BOLIVIA	222			0.3	5
7	15	30	26.9	1.6	S	78.3	W	ECUADOR	164	D	4.2	0.9	17
7	16	21	20.7	4.1	N	125.6	E	TALAUD ISLANDS	170		5.4	1.0	62
7	17	22	44.9	10.9	S	166.4	E	SANTA CRUZ ISLANDS	50		5.3	0.9	30
7	17	30	56.8	10.8	S	166.5	E	SANTA CRUZ ISLANDS	33		5.0	1.0	17
7	18	16	52.6	59.6	N	146.2	W	GULF OF ALASKA	N		3.9	0.7	12
8	01	31	57.5	10.8	S	166.3	E	SANTA CRUZ ISLANDS	43		4.7	0.8	20
8	01	48	59.9	10.7	S	166.4	E	SANTA CRUZ ISLANDS	16		5.0	0.6	20
8	02	48	50.5	10.8	S	166.3	E	SANTA CRUZ ISLANDS	N		4.6	0.4	10
8	04	03	30.7	10.7	S	166.5	E	SANTA CRUZ ISLANDS	N		4.8	1.2	21
8	05	13	34.4	24.5	N	142.7	E	VOLCANO ISLANDS REGION	N		4.5	0.9	33
8	08	13	06.9	10.8	S	166.4	E	SANTA CRUZ ISLANDS	N		4.8	0.8	8
8	10	16	25.9	65.6	N	152.2	W	ALASKA	6		3.8	1.5	12
8	11	11	42.9*	21.1	S	70.3	W	NEAR COAST OF NORTHERN CHILE	45		4.2	0.6	10
8	11	22	20.8	44.9	N	149.6	E	KURILE ISLANDS	47		3.9	1.3	9
8	12	04	19.5*	33.4	N	136.5	E	NEAR S. COAST OF SOUTHERN HONSHU	411			1.3	5
8	12	33	25.8	10.8	S	166.4	E	SANTA CRUZ ISLANDS	34		4.5	1.0	13
8	15	52	15.8*	13.0	N	88.1	W	EL SALVADOR	75		3.9	0.2	5
8	16	29	43.1*	45.3	N	152.8	E	KURILE ISLANDS REGION	N		4.3	0.5	5
8	20	51	06.4	62.0	N	150.8	W	CENTRAL ALASKA	N			0.4	7
8	21	03	35.2	22.2	S	67.5	W	CHILE-BOLIVIA BORDER REGION	187		4.5	0.8	20
8	22	13	56.9	15.6	S	167.6	E	NEW HEBRIDES ISLANDS	131		4.5	0.8	41
8	22	24	18.3	10.9	S	166.2	E	SANTA CRUZ ISLANDS	65		4.9	1.1	9
8	22	52	13.7	12.3	S	166.4	E	SANTA CRUZ ISLANDS	59		4.8	0.8	14
8	23	07	02.8*	15.1	N	88.8	W	HONDURAS	76		4.2	1.9	6
8	23	07	07.0*	17.5	S	176.9	W	FIJI ISLANDS REGION	100	G	4.3	1.2	11
9	00	41	55.6	6.8	N	73.0	W	NORTHERN COLOMBIA	163		4.3	0.6	12
9	03	24	18.6	10.7	S	166.3	E	SANTA CRUZ ISLANDS	28	D	5.4	1.2	49
9	03	38	10.2	10.7	S	166.6	E	SANTA CRUZ ISLANDS	N		4.8	1.4	19
9	04	53	46.2	48.1	S	13.2	W	SOUTH ATLANTIC RIDGE	32		4.7	1.4	22
9	05	38	16.2	10.7	S	166.2	E	SANTA CRUZ ISLANDS	42		5.2	1.1	27
9	05	52	22.0	10.9	S	166.4	E	SANTA CRUZ ISLANDS	58		5.3	1.2	51
								MAG. 5 1/4 (PAS).					
9	06	23	01.1*	10.9	S	166.6	E	SANTA CRUZ ISLANDS	N		4.6	1.7	12
9	06	58	36.5	10.6	S	166.2	E	SANTA CRUZ ISLANDS	34		5.9	1.4	116
								MAG. 6 1/2 (PAS), 5.6-5.8 (BRK).					
9	07	50	58.5	10.8	S	166.3	E	SANTA CRUZ ISLANDS	44		5.2	0.9	25
9	08	10	37.9	11.0	S	166.4	E	SANTA CRUZ ISLANDS	61		4.8	1.1	16
9	08	16	40.7	10.8	S	166.3	E	SANTA CRUZ ISLANDS	44		5.2	1.0	29
9	09	04	36.4	10.7	S	166.3	E	SANTA CRUZ ISLANDS	N		4.5	0.7	12
9	11	15	57.0	46.1	N	153.3	E	KURILE ISLANDS	N		3.8	1.3	6
9	11	43	13.4	23.8	S	66.4	W	JUJUY PROVINCE, ARGENTINA	206		4.7	1.2	31
9	11	50	29.7*	17.1	S	73.3	W	OFF COAST OF PERU	N		3.6	1.4	6
9	12	55	08.6	10.6	S	166.4	E	SANTA CRUZ ISLANDS	N		4.8	1.1	11
9	13	38	56.8	29.6	N	141.1	E	SOUTH OF HONSHU, JAPAN	N		4.4	0.9	14
9	14	08	44.8	14.5	N	91.5	W	GUATEMALA	102		4.7	0.8	37
9	17	32	06.9	37.8	S	176.6	E	NORTH ISLAND, NEW ZEALAND	142			1.1	7
9	17	58	24.4	15.5	S	175.2	W	TONGA ISLANDS	16		4.7	1.3	29
9	18	02	41.9	10.7	S	166.4	E	SANTA CRUZ ISLANDS	24		5.9	1.4	84
								MAG. 6 (PAS), 5.9-6.1 (BRK).					
9	18	27	09.5	15.6	S	175.4	W	TONGA ISLANDS	37		4.6	1.6	18
9	18	32	49.1*	19.2	N	65.2	W	PUERTO RICO REGION	73		4.4	0.9	12
9	19	56	59.4	17.6	S	69.7	W	PERU-BOLIVIA BORDER REGION	157	D	4.3	1.1	25
9	20	02	48.3*	56.6	N	35.6	W	NORTH ATLANTIC OCEAN	N		4.6	1.0	15
9	20	10	36.0*	55.5	N	33.3	W	NORTH ATLANTIC OCEAN	N		4.6	1.0	12
9	20	12	33.9	19.1	S	69.6	W	NORTHERN CHILE	115		4.4	1.2	14
9	20	23	03.7	56.5	N	35.1	W	NORTH ATLANTIC OCEAN	N		4.6	0.8	15
9	20	34	48.1	56.2	N	34.6	W	NORTH ATLANTIC OCEAN	N		4.8	1.3	34
9	20	38	34.4*	56.2	N	34.1	W	NORTH ATLANTIC OCEAN	N		4.6	0.8	18
9	20	54	57.8	6.6	S	129.7	E	BANDA SEA	163		4.9	1.1	19
9	20	59	44.8	56.2	N	34.8	W	NORTH ATLANTIC OCEAN	N		4.5	1.1	19
9	21	06	36.1	30.4	N	139.4	E	SOUTH OF HONSHU, JAPAN	253		4.6	1.1	26
9	21	22	49.1	56.1	N	34.5	W	NORTH ATLANTIC OCEAN	N		4.9	1.2	44

MAR	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
9	21	24	54.9*	56.2 N	35.1 W	NORTH ATLANTIC OCEAN	N	4.8	1.2	15
9	21	25	21.2	21.7 S	175.9 W	TONGA ISLANDS	158 D	4.9	1.5	53
9	22	18	04.9*	56.4 N	35.4 W	NORTH ATLANTIC OCEAN	N	4.5	1.0	15
9	23	15	42.7*	56.0 N	34.8 W	NORTH ATLANTIC OCEAN	N	4.1	0.9	11
10	00	31	18.4	28.7 N	138.7 E	BONIN ISLANDS REGION	506	5.0	0.9	85
10	01	43	55.5	56.1 N	34.6 W	NORTH ATLANTIC OCEAN	N	4.7	1.1	25
10	01	54	17.8	32.4 N	137.7 E	SOUTH OF HONSHU, JAPAN	385	4.4	1.2	25
10	02	20	35.4	42.0 N	110.2 W	WYOMING	N	3.7	0.7	11
10	04	37	17.8*	56.1 N	34.5 W	NORTH ATLANTIC OCEAN	N	4.3	1.5	8
10	04	54	54.8	56.1 N	34.9 W	NORTH ATLANTIC OCEAN	N	4.4	0.7	10
10	05	34	59.8	40.8 N	111.9 W	UTAH FELT AT SALT LAKE CITY.	5 G		1.3	7
10	06	33	53.2	23.0 S	179.7 W	SOUTH OF FIJI ISLANDS	550 G	4.5	0.8	25
10	07	21	51.5	56.3 N	34.7 W	NORTH ATLANTIC OCEAN	N	4.3	0.6	11
10	09	02	27.3	44.6 N	148.6 E	KURILE ISLANDS	66	4.1	0.5	8
10	10	02	47.8	10.6 S	166.3 E	SANTA CRUZ ISLANDS	N	5.0	1.2	19
10	10	13	22.9*	17.5 S	178.9 W	FIJI ISLANDS REGION	527	4.2	1.0	27
10	11	14	38.0	56.1 N	34.7 W	NORTH ATLANTIC OCEAN	N	4.7	1.0	25
10	12	41	13.0	0.7 N	30.2 E	UGANDA	N	5.5	0.8	7
10	12	45	32.5*	38.8 N	124.2 W	OFF COAST OF NORTHERN CALIFORNIA MAG. 3.0 (BRK).	10 G		0.7	10
10	13	05	17.9	30.3 N	114.5 W	GULF OF CALIFORNIA	N	4.1	1.0	5
10	13	12	15.7	10.8 S	166.4 E	SANTA CRUZ ISLANDS	34	4.8	1.2	21
10	13	41	06.0	19.9 N	38.7 E	RED SEA	N		1.6	8
10	14	16	27.1	34.5 N	137.6 E	NEAR S. COAST OF HONSHU, JAPAN	313	4.4	1.1	39
10	14	49	32.7*	56.8 N	36.1 W	NORTH ATLANTIC OCEAN	N	4.5	1.1	8
10	19	46	55.6*	19.9 N	38.9 E	RED SEA	N		0.6	5
10	20	46	33.1	56.0 N	34.6 W	NORTH ATLANTIC OCEAN	26	4.7	1.1	29
10	21	57	37.5	41.2 N	142.2 E	HOKKAIDO, JAPAN REGION	52	4.1	1.1	20
11	00	06	25.4*	15.5 N	93.5 W	NEAR COAST OF CHIAPAS, MEXICO	N	3.6	1.0	5
11	00	14	44.2*	55.8 N	34.7 W	NORTH ATLANTIC OCEAN	N	4.5	1.2	7
11	03	05	25.4	55.8 N	34.8 W	NORTH ATLANTIC OCEAN	N	4.6	1.3	20
11	06	31	08.3	36.4 N	70.8 E	HINDU KUSH REGION	215 D	5.0	0.8	68
11	08	33	27.1	10.8 S	166.3 E	SANTA CRUZ ISLANDS MAG. 6 1/4 (PAS), 6-6 1/4 (GOL).	49	6.0	1.0	122
11	08	41	55.2	25.7 S	71.1 W	OFF COAST OF NORTHERN CHILE	N	4.2	1.6	6
11	12	22	45.4	63.4 N	17.7 W	ICELAND REGION	39	4.5	1.1	8
11	13	34	26.1	55.8 N	34.3 W	NORTH ATLANTIC OCEAN	N	4.4	2.0	9
11	13	56	01.3	11.1 N	69.7 W	NEAR COAST OF VENEZUELA FELT AT CARACAS.	22	3.9	0.5	6
11	14	06	43.5*	55.6 N	33.8 W	NORTH ATLANTIC OCEAN	N	4.3	1.2	8
11	14	45	00.9	19.1 N	95.8 W	VERA CRUZ, MEXICO 3 INJURED, MODERATE DAMAGE AT VERA CRUZ AND BOCA DEL RIO. FELT AT JALAPA. MAG.5 1/2 (PAS), 5.2-5.6 (BRK), 5 - 5 1/4 (GOL).	47 D	5.3	1.4	72
11	16	39	57.2	14.6 N	91.5 W	GUATEMALA	27	3.7	0.6	7
11	16	56	50.2	28.4 N	94.4 E	INDIA-CHINA BORDER REGION	12	5.3	1.0	79
11	18	15	16.9*	56.0 N	34.5 W	NORTH ATLANTIC OCEAN	N	4.7	0.9	10
11	18	45	44.5	29.3 N	81.4 E	NEPAL	N	4.8	1.4	19
11	19	33	48.2	19.6 N	39.0 E	RED SEA	N	4.9	1.6	7
11	19	38	21.5	19.5 N	38.8 E	RED SEA	N	5.2	1.2	27
11	22	55	22.7	36.0 N	69.4 E	HINDU KUSH REGION	124		1.4	14
12	00	53	06.5	19.0 S	175.1 W	TONGA ISLANDS	70	4.4	0.6	11
12	01	23	54.6	51.1 N	157.8 E	NEAR EAST COAST OF KAMCHATKA	65	5.1	0.9	51
12	01	52	03.9*	15.0 S	174.4 W	TONGA ISLANDS	100	3.8	0.3	6
12	02	52	04.4	42.7 N	143.2 E	HOKKAIDO, JAPAN REGION	109 D	5.2	1.1	115
12	05	19	00.3*	19.0 N	65.1 W	PUERTO RICO REGION	N	3.9	1.4	6
12	06	16	54.6	14.1 N	93.1 W	NEAR COAST OF CHIAPAS, MEXICO	35	3.9	1.3	16
12	10	01	49.0*	19.8 N	38.9 E	RED SEA	N	5.8	1.8	6
12	10	49	49.3	28.3 S	70.4 W	CENTRAL CHILE	37	4.5	1.2	26

MAR	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
12	16	14	38.9	32.5 N	116.0 W	CALIFORNIA-MEXICO BORDER REGION	0	4.6		11
						32° 31.6 ' N., 115° 58.6 ' W.				
						DEPTH -2.0 KM. MAG. 3.7.				
						HYPOCENTER AND MAGNITUDE BY				
						PASADENA.				
12	18	35	22.4	19.4 N	38.8 E	RED SEA	N	6.1	1.4	11
12	18	56	48.5	24.9 S	68.9 W	CHILE-ARGENTINA BORDER REGION	94	4.5	0.9	15
12	21	22	18.9	28.2 N	111.6 W	GULF OF CALIFORNIA	N	4.2	1.4	11
12	21	44	33.3	19.6 N	38.7 E	RED SEA	N	6.1	1.4	23
12	22	39	03.2*	19.6 N	39.0 E	RED SEA	24		1.6	6
13	00	32	10.2	6.5 S	155.9 E	SOLOMON ISLANDS	164	5.1	0.6	14
13	00	59	04.5	3.0 N	74.6 W	COLOMBIA	83	4.5	1.3	19
						FELT AT IBAGUE AND ARMENIA.				
13	03	07	58.0	23.7 S	68.2 W	NORTHERN CHILE	125	4.1	1.2	14
13	04	53	30.3	3.1 S	147.6 E	BISMARCK SEA	N	5.0	1.3	14
13	06	23	50.3*	20.5 N	38.6 E	RED SEA	N		1.8	6
13	07	28	04.9	19.6 N	38.7 E	RED SEA	N	5.8	1.2	33
13	07	37	38.3	20.7 S	178.3 W	FIJI ISLANDS REGION	596 D	4.9	1.0	43
13	08	10	54.8	19.6 N	38.6 E	RED SEA	15	5.0	1.5	20
13	08	37	11.7*	13.7 N	88.1 W	EL SALVADOR	82	3.8	0.2	5
13	11	46	29.6	19.6 N	38.8 E	RED SEA	N	5.0	1.4	21
13	12	48	51.4*	56.2 N	157.9 W	ALASKA PENINSULA	57	4.3	1.2	23
13	14	44	06.0	53.8 N	165.2 W	FOX ISLANDS, ALEUTIAN ISLANDS	21	5.1	1.1	71
13	16	06	54.4	40.1 S	74.6 W	OFF COAST OF SOUTHERN CHILE	36 D	5.9	1.4	107
						MAG. 7.1-7.5 (BRK).				
13	17	27	09.4	3.6 N	126.6 E	TALAUD ISLANDS	44	5.3	1.4	40
13	17	43	19.8	37.4 N	22.3 E	SOUTHERN GREECE	62	4.6	1.0	16
						FELT IN MESSENIA AREA.				
13	19	01	01.6	3.6 N	126.6 E	TALAUD ISLANDS	35	5.5	1.4	56
13	19	22	19.5	19.7 N	38.7 E	RED SEA	31	5.7	1.2	132
13	20	08	26.9	24.0 S	70.4 W	NEAR COAST OF NORTHERN CHILE	84	4.5	0.8	12
13	20	45	11.2	43.2 N	147.8 E	KURILE ISLANDS	54		0.2	6
13	20	50	29.2	55.8 N	34.9 W	NORTH ATLANTIC OCEAN	N	4.5	1.9	14
13	21	26	07.3	40.3 N	141.1 E	NEAR EAST COAST OF HONSHU, JAPAN	107	4.2	0.9	13
13	21	44	07.0	82.2 N	39.8 E	FRANZ JOSEF LAND	N	4.4	1.6	32
13	21	59	48.4	36.0 N	120.6 W	CENTRAL CALIFORNIA	13	4.0		8
						36° 00.6 ' N., 120° 36.6 ' W.				
						DEPTH 11-15 KM MAG. 3.1.				
						HYPOCENTER AND MAGNITUDE BY				
						BERKELEY. FELT IN SAN MIGUEL,				
						INDIAN VALLEY AND RANCHITO				
						CANYON.				
						MAG. 3.6 (PAS).				
13	22	09	45.8	18.1 S	69.4 W	NORTHERN CHILE	138	4.0	0.5	8
13	23	02	40.6*	36.2 N	141.3 E	NEAR EAST COAST OF HONSHU, JAPAN	57	4.2	1.1	7
13	23	08	56.0*	60.6 N	148.3 W	KENAI PENINSULA, ALASKA	N		1.9	7
14	02	56	02.8	4.4 N	82.6 W	SOUTH OF PANAMA	N	4.3	0.9	14
14	03	21	30.1	61.8 N	151.9 W	SOUTHERN ALASKA	109	3.5	1.1	10
14	06	58	03.2	28.5 N	94.3 E	INDIA-CHINA BORDER REGION	12	5.8	1.1	144
14	07	50	14.8	82.5 N	40.5 E	FRANZ JOSEF LAND	13	4.7	1.0	59
14	07	55	27.5*	5.2 S	147.2 E	EAST NEW GUINEA REGION	174		1.0	9
14	11	39	12.3*	19.5 N	147.0 E	MARIANA ISLANDS REGION	N	4.6	1.5	16
14	12	53	23.7*	21.0 S	68.9 W	CHILE-BOLIVIA BORDER REGION	130	4.1	1.5	7
14	14	35	13.4	36.4 N	70.4 E	HINDU KUSH REGION	216	4.7	1.0	24
14	21	52	07.8	19.6 N	38.8 E	RED SEA	N	5.6	1.6	23
14	23	24	47.9	23.0 S	178.7 E	SOUTH OF FIJI ISLANDS	650 G	4.7	0.9	45
15	01	18	04.1*	3.2 N	102.2 W	EAST CENTRAL PACIFIC OCEAN	N	4.4	0.8	11
15	06	39	59.6	18.9 S	169.3 E	NEW HEBRIDES ISLANDS	252	5.0	1.0	58
15	10	38	07.4*	52.1 N	32.3 W	NORTH ATLANTIC OCEAN	N	4.4	1.1	10
15	16	25	56.8	30.0 N	50.5 E	IRAN	42	5.0	0.9	6
15	17	56	43.2	30.1 N	66.6 E	WEST PAKISTAN	10 G	4.4	1.1	5
						FELT AT QUETTA.				
15	21	28	58.5	15.7 S	166.4 E	NEW HEBRIDES ISLANDS	14		1.2	6
15	22	02	09.4	59.6 S	26.0 W	SOUTH SANDWICH ISLANDS REGION	N	5.5	1.3	27
16	01	02	02.2*	47.0 S	13.4 W	SOUTH ATLANTIC RIDGE	N		0.8	6
16	02	41	38.3*	19.7 N	39.0 E	RED SEA	N	5.1	1.0	12
16	03	11	59.3	19.4 N	38.8 E	RED SEA	N	5.4	1.2	52
16	03	19	33.0	3.0 S	136.3 E	WEST NEW GUINEA	40	4.9	1.5	14

MAR	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
16	09	26	18.4	3.2	N	74.5	W	COLOMBIA	107	4.1	0.4	7
								FELT AT BOGOTA AND IBAGUE.				
16	11	41	28.7	19.7	N	38.8	E	RED SEA	N		1.3	13
16	12	09	36.9	22.1	S	170.5	E	LOYALTY ISLANDS REGION	55	5.3	1.3	57
16	12	13	24.1	27.1	N	96.3	E	BURMA-INDIA BORDER REGION	24	4.8	1.5	12
16	13	26	33.9	25.5	S	71.1	W	OFF COAST OF NORTHERN CHILE	N	4.7	1.4	7
16	14	45	12.8	19.7	N	38.8	E	RED SEA	N	5.1	1.2	33
16	15	16	54.7	21.5	S	67.0	W	CHILE-BOLIVIA BORDER REGION	221	4.4	1.3	15
16	16	00	15.9	19.5	N	38.7	E	RED SEA	N	6.2	1.4	22
16	17	33	07.6	13.7	S	170.7	E	NEW HEBRIDES ISLANDS REGION	637	4.7	1.0	71
16	17	38	26.9	29.9	N	85.0	E	TIBET	15	3.9	1.8	7
16	18	01	56.5	42.4	N	137.2	E	EASTERN SEA OF JAPAN	293	4.6	1.1	40
16	18	57	53.1	33.7	S	70.5	W	CHILE-ARGENTINA BORDER REGION	104	4.2	1.4	6
16	19	02	08.5	10.7	S	166.3	E	SANTA CRUZ ISLANDS	40	5.1	1.0	17
16	22	24	41.3*	40.5	N	23.3	E	GREECE	N	4.9	1.6	5
16	22	59	09.2*	19.5	N	70.0	W	DOMINICAN REPUBLIC REGION	N	4.0	0.4	5
16	23	04	01.5*	14.6	S	165.9	E	NEW HEBRIDES ISLANDS	37	5.0	1.0	5
16	23	07	27.5	53.3	N	164.7	W	UNIMAK ISLAND REGION	38	4.4	1.4	13
17	01	31	32.7	51.9	N	176.0	E	RAT ISLANDS, ALEUTIAN ISLANDS	52	4.3	1.2	10
17	02	22	39.0	42.0	N	142.4	E	HOKKAIDO, JAPAN REGION	70	4.7	1.1	38
17	06	13	48.2	35.2	N	5.7	W	STRAITS OF GIBRALTER	N	4.1	0.5	7
								FELT IN MOROCCO.				
17	06	17	26.6	5.5	S	154.3	E	SOLOMON ISLANDS	140	4.5	1.2	9
17	06	47	39.3	53.7	N	165.3	W	FOX ISLANDS, ALEUTIAN ISLANDS	30 G	4.3	1.3	13
17	07	13	20.4*	11.2	S	165.3	E	SANTA CRUZ ISLANDS	98	5.0	0.4	9
17	07	43	35.5	37.1	N	141.0	E	NEAR EAST COAST OF HONSHU, JAPAN	N	4.3	1.5	13
17	11	17	18.6	21.2	S	67.6	W	CHILE-BOLIVIA BORDER REGION	191	4.2	1.1	15
17	11	24	45.8	3.6	S	150.9	E	NEW IRELAND REGION	N	5.3	1.4	73
								MAG. 6 1/4 (PAS), 6-6 1/4 (GOL).				
17	13	48	15.0	7.9	S	155.5	E	SOLOMON ISLANDS	35	5.2	1.1	30
17	13	53	51.3	42.2	N	143.1	E	HOKKAIDO, JAPAN REGION	66	4.3	1.2	18
17	14	48	24.2*	46.7	N	27.5	W	NORTH ATLANTIC RIDGE	N	4.4	1.3	14
17	17	06	09.4	61.4	N	150.0	W	SOUTHERN ALASKA	41		0.5	7
18	00	10	56.9	41.7	N	46.3	E	EASTERN CAUCASUS	50	5.0	0.8	12
18	07	33	27.8	25.5	S	71.1	W	OFF COAST OF NORTHERN CHILE	N	4.7	1.3	10
18	09	27	44.6	20.8	S	179.4	W	FIJI ISLANDS REGION	677	4.9	0.8	51
								MAG. 6.7 (BRK).				
18	10	53	45.2	44.4	N	148.3	E	KURILE ISLANDS	65	4.2	1.2	10
18	13	17	05.0	49.7	N	156.1	E	KURILE ISLANDS	53 D	4.6	1.2	29
18	16	43	30.6	5.8	S	150.7	E	NEW BRITAIN REGION	53	5.1	1.1	10
18	16	50	21.9	18.6	S	168.2	E	NEW HEBRIDES ISLANDS	27	4.6	1.3	11
								FELT AT PORT VILA.				
18	17	49	49.1	36.3	N	139.9	E	HONSHU, JAPAN	86	5.1	0.9	81
								FELT IN CENTRAL AND NORTHERN HONSHU.				
18	19	15	35.5	6.0	S	146.3	E	EAST NEW GUINEA REGION	99	5.6	1.0	79
19	00	37	09.7*	63.6	N	19.1	W	ICELAND	N	4.1	1.9	6
19	01	10	49.1	6.7	S	129.9	E	BANDA SEA	89 D	6.1	1.1	187
19	02	14	30.4*	25.8	S	70.5	W	NEAR COAST OF NORTHERN CHILE	N	5.0	1.7	9
19	02	54	19.7	27.8	N	130.4	E	RYUKYU ISLANDS	N	4.9	0.7	45
19	03	36	58.2	45.4	N	151.3	E	KURILE ISLANDS	39	3.9	0.8	17
19	04	01	39.4	45.7	N	151.2	E	KURILE ISLANDS	45 D	5.5	1.4	191
								MAG. 6 1/2 (PAS), 5.9-6.3 (BRK), 6 1/2-6 3/4 (GOL)				
19	05	55	04.1	13.9	N	120.6	E	MINDORO, PHILIPPINE ISLANDS	96	5.0	1.0	43
								FELT AT MANILA.				
19	15	17	11.5	10.4	N	125.9	E	LEYTE, PHILIPPINE ISLANDS	130	4.9	1.2	23
19	15	53	24.5	10.5	N	126.2	E	PHILIPPINE ISLANDS REGION	62	4.8	1.4	25
19	16	23	56.5	45.2	N	150.9	E	KURILE ISLANDS	46	4.4	1.1	20
19	17	25	11.0	51.9	N	180.0	W	ANDREANOF ISLANDS, ALEUTIAN IS.	20 G	5.0	1.1	55
19	20	48	45.6	62.7	N	150.8	W	CENTRAL ALASKA	81	3.6	0.7	8
19	21	29	24.1	7.0	N	73.1	W	NORTHERN COLOMBIA	140	4.4	0.8	13
19	21	42	42.8	10.8	S	74.8	W	PERU	128	4.3	0.7	14
19	21	50	44.0	45.6	N	151.1	E	KURILE ISLANDS	18	4.3	1.5	22
19	22	35	15.8	38.1	S	73.4	W	NEAR COAST OF CENTRAL CHILE	36	4.3	1.3	14
20	02	10	17.3	37.3	N	114.2	W	SOUTHERN NEVADA	10 G		1.5	6
20	02	35	28.1	18.8	S	169.5	E	NEW HEBRIDES ISLANDS	189	3.9	1.0	6
20	05	13	57.3	45.3	N	150.9	E	KURILE ISLANDS	42	4.7	1.2	39

MAR	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM		CGS MAG MB	SD	N
20	08	05	07.2	47.2	N	151.8	E	KURILE ISLANDS	66		4.2	1.1	8
20	08	23	00.8	60.4	N	149.6	W	KENAI PENINSULA, ALASKA FELT AT ANCHORAGE.	60		4.2	0.7	15
20	08	30	20.3	20.1	S	168.4	E	LOYALTY ISLANDS	47		4.8	0.4	7
20	08	42	06.0*	13.4	N	90.0	W	NEAR COAST OF GUATEMALA	8		3.7	1.9	6
20	08	47	48.6	6.4	S	148.4	E	NEW BRITAIN REGION	50		5.2	1.7	28
20	09	30	34.3	45.2	N	151.5	E	KURILE ISLANDS	30		4.7	1.2	58
20	10	48	08.7	52.0	N	175.3	E	RAT ISLANDS, ALEUTIAN ISLANDS	51		4.8	1.1	56
20	13	31	34.3	45.5	N	151.5	E	KURILE ISLANDS MAG. 5.5-5.9 (BRK).	50	D	5.6	1.3	180
20	13	38	53.2	45.7	N	151.5	E	KURILE ISLANDS	49		4.6	1.0	42
20	13	40	53.1	45.5	N	151.6	E	KURILE ISLANDS	51	D	5.4	1.1	134
20	13	52	05.8	45.5	N	151.6	E	KURILE ISLANDS	38		5.3	1.1	150
20	14	44	16.7	45.3	N	151.6	E	KURILE ISLANDS	43		4.7	1.3	58
20	15	13	40.2	5.0	N	82.5	W	SOUTH OF PANAMA	28		4.7	1.0	28
20	15	46	26.6	45.4	N	151.2	E	KURILE ISLANDS	42		5.2	0.9	86
20	16	11	57.9	45.0	N	151.4	E	KURILE ISLANDS	31		4.3	1.5	19
20	17	11	32.9	45.4	N	151.5	E	KURILE ISLANDS	21		5.1	1.1	86
20	18	06	15.5*	17.4	S	178.5	W	FIJI ISLANDS REGION	509		3.2	1.0	7
20	18	27	27.5	24.1	S	67.2	W	CHILE-ARGENTINA BORDER REGION	202		4.3	1.1	8
20	19	07	26.1	22.2	S	170.6	E	LOYALTY ISLANDS REGION	35		5.3	1.3	52
20	20	26	53.6*	46.3	N	150.4	E	KURILE ISLANDS	40		4.2	1.3	7
20	21	54	48.3	36.2	N	139.7	E	HONSHU, JAPAN	62		4.9	1.0	67
20	22	30	47.0	35.9	N	44.1	E	IRAQ	52		5.1	1.3	36
20	22	51	39.5	7.5	N	71.6	W	VENEZUELA	104		4.2	0.9	13
21	04	02	37.6	22.5	S	170.7	E	LOYALTY ISLANDS REGION	N			1.1	5
21	07	52	24.9	25.3	S	69.9	E	SOUTH INDIAN OCEAN	N		4.6	0.8	6
21	08	32	37.3	17.5	S	178.4	W	FIJI ISLANDS REGION	452		3.8	1.1	16
21	09	10	49.9	45.4	N	151.4	E	KURILE ISLANDS	38		4.4	1.8	15
21	09	55	19.9	13.9	N	91.0	W	NEAR COAST OF GUATEMALA	112		4.0	0.8	12
21	11	05	00.6	45.8	N	151.2	E	KURILE ISLANDS	42		4.0	1.4	9
21	11	24	59.5	24.0	S	175.3	W	SOUTH OF TONGA ISLANDS	164		5.1	0.9	56
21	12	33	42.4*	51.9	N	174.3	W	ANDREANOF ISLANDS, ALEUTIAN IS.	N		3.7	0.7	9
21	13	14	24.1	60.0	N	148.6	W	KENAI PENINSULA, ALASKA	N			0.6	6
21	14	02	10.8	35.7	N	140.1	E	NEAR EAST COAST OF HONSHU, JAPAN	62		3.7	0.8	6
21	15	05	01.8	35.9	N	138.1	E	HONSHU, JAPAN	50			0.8	9
21	16	43	10.4*	23.3	S	169.6	E	LOYALTY ISLANDS REGION	N		4.1	1.1	5
21	18	11	43.5	6.8	N	73.0	W	NORTHERN COLOMBIA FELT IN BOGOTA, CUCUTA, AND MEDELLIN AREAS.	161	D	5.4	1.0	92
21	18	37	30.5	15.2	S	173.2	W	TONGA ISLANDS	259		4.7	0.7	29
21	19	06	29.1	11.5	S	165.6	E	SANTA CRUZ ISLANDS	29		4.9	1.0	26
21	23	05	27.6	46.6	N	150.4	E	KURILE ISLANDS	11		4.3	1.3	13
21	23	39	23.9*	19.7	N	39.2	E	RED SEA	N		6.1	1.8	5
22	00	10	53.6	11.8	S	165.5	E	SANTA CRUZ ISLANDS	55		4.8	1.1	20
22	02	54	22.0	20.3	N	38.7	E	RED SEA	N			1.6	9
22	03	59	46.1	17.8	S	178.7	W	FIJI ISLANDS REGION	551		3.8	1.1	17
22	05	05	18.8	10.8	S	79.0	W	OFF COAST OF PERU	N		4.7	1.5	28
22	05	20	15.8	11.1	S	79.2	W	OFF COAST OF PERU	N		4.6	1.1	21
22	05	58	23.5	51.4	N	173.5	E	NEAR ISLANDS, ALEUTIAN ISLANDS	N		4.9	1.0	40
22	09	15	29.2	12.7	N	87.8	W	NEAR COAST OF NICARAGUA	70		4.4	1.1	25
22	11	00	23.1	45.1	N	151.3	E	KURILE ISLANDS	16		4.0	1.3	8
22	11	41	06.5	45.1	N	151.7	E	KURILE ISLANDS	N		4.0	1.5	6
22	13	00	23.9	5.4	S	146.4	E	EAST NEW GUINEA REGION	34		5.3	1.4	56
22	14	59	22.4	41.4	N	124.9	W	NEAR COAST OF NORTHERN CALIF. MAG. 4.2 (BRK).	7		4.8	1.2	28
22	18	43	45.1	16.6	S	167.6	E	NEW HEBRIDES ISLANDS	67			1.0	6
22	19	13	04.8	10.6	S	161.7	E	SOLOMON ISLANDS	35		4.7	1.2	20
22	21	17	37.1	56.2	S	27.7	W	SOUTH SANDWICH ISLANDS REGION	44		5.6	1.3	49
22	22	59	50.5	19.6	N	38.6	E	RED SEA	N		5.6	1.5	18
22	23	46	21.3	15.0	S	176.5	W	FIJI ISLANDS REGION	N		4.7	1.2	18
23	00	18	33.6*	15.2	S	173.4	W	TONGA ISLANDS	N		4.5	0.7	12
23	00	35	41.6	16.8	S	177.1	W	FIJI ISLANDS REGION	33		4.6	1.2	25
23	02	46	48.6	2.7	S	68.0	E	CARLSBERG RIDGE	16		4.9	1.0	29
23	05	23	33.9	2.7	S	68.0	E	CARLSBERG RIDGE	N		5.2	1.2	33
23	08	31	10.5*	13.5	N	45.0	W	NORTH ATLANTIC RIDGE	N		4.4	1.3	13
23	08	45	20.3*	52.3	N	174.0	E	NEAR ISLANDS, ALEUTIAN ISLANDS	62		4.2	0.9	11
23	13	41	56.6	45.3	N	151.8	E	KURILE ISLANDS	47	D	4.8	1.2	60

MAR	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
23	15	00	28.3	4.6 S	101.9 E	SOUTHERN SUMATRA	N	5.2	1.3	58
24	01	08	06.0	24.2 N	121.7 E	TAIWAN	41	4.9	1.3	39
24	01	23	26.8	45.2 N	150.9 E	KURILE ISLANDS	55	4.4	1.0	26
24	01	32	35.7	20.9 S	169.0 E	NEW HEBRIDES ISLANDS	37	4.4	1.8	7
24	01	56	24.6	6.0 S	105.3 E	SUNDA STRAIT	27	5.2	1.2	28
24	01	57	49.2	20.2 N	38.3 E	RED SEA	N	5.0	1.2	24
24	03	18	58.7	42.5 N	86.7 E	NORTHERN SINKIANG PROV., CHINA	22	4.7	0.6	22
24	04	11	30.4	40.2 N	144.6 E	OFF EAST COAST OF HONSHU, JAPAN	N	5.0	0.9	52
24	06	15	51.5	3.3 N	74.2 W	COLOMBIA	136	4.2	1.2	8
24	06	18	02.8	12.2 N	125.9 E	SAMAR, PHILIPPINE ISLANDS	18		1.7	9
24	06	38	08.5	19.9 N	38.5 E	RED SEA	N	5.5	1.3	29
24	07	36	06.3*	21.4 N	45.5 W	NORTH ATLANTIC RIDGE	N	4.2	0.6	9
24	08	19	30.7	36.4 N	71.4 E	AFGHANISTAN-USSR BORDER REGION	123		1.4	12
24	09	00	19.1	6.0 S	112.3 E	JAVA	595 D	5.7	1.1	182
						MAG. 6 3/4 (PAS), 6.7-7.2 (BRK).				
24	10	00	30.8*	20.1 N	38.7 E	RED SEA	N		0.8	7
24	11	11	43.5	34.6 N	69.9 E	AFGHANISTAN	70	4.4	1.4	13
24	11	46	14.1	5.9 S	112.3 E	JAVA SEA	606 D	5.5	1.0	97
24	12	34	31.1	20.1 N	38.7 E	RED SEA	N	4.9	1.5	7
24	14	23	28.1	14.9 N	93.6 W	NEAR COAST OF CHIAPAS, MEXICO	84	4.1	1.3	15
24	15	38	48.3	6.7 S	75.0 W	NORTHERN PERU	138	4.8	1.1	30
24	17	38	13.8	46.5 N	7.4 E	SWITZERLAND	13	4.2	1.5	30
						FELT IN VALAIS AREA.				
24	17	39	58.0	11.6 S	165.5 E	SANTA CRUZ ISLANDS	N	4.9	1.0	8
24	17	57	14.4*	36.1 N	139.7 E	HONSHU, JAPAN	95		0.5	5
24	18	29	22.3	27.9 N	142.8 E	BONIN ISLANDS REGION	N	4.7	1.0	20
24	19	09	19.4	40.6 S	176.2 E	NORTH ISLAND, NEW ZEALAND	22	5.1	1.5	21
24	22	59	49.3	20.3 S	179.1 W	FIJI ISLANDS REGION	679	4.8	1.0	50
25	03	46	08.9	34.7 N	71.1 E	WEST PAKISTAN	43	4.0	1.5	12
25	04	06	52.6	36.5 N	138.4 E	HONSHU, JAPAN	N	4.2	1.6	7
25	05	21	48.7	44.7 N	112.0 W	EASTERN IDAHO	N	3.9	1.7	8
25	05	57	58.6	49.8 N	78.1 E	EASTERN KAZAKH SSR	0 G	5.3	1.1	75
25	07	26	37.5*	12.4 N	87.9 W	NEAR COAST OF NICARAGUA	76	4.0	1.1	5
25	07	35	16.1	24.9 N	122.4 E	TAIWAN REGION	119	5.0	1.2	37
25	12	18	24.8	23.0 S	66.5 W	JUJUY PROVINCE, ARGENTINA	204	4.9	1.1	40
25	14	19	16.3*	8.0 S	154.1 E	DENTRECASTEAUX ISLANDS REGION	39	5.3	0.7	7
25	14	29	14.3	7.4 N	79.8 W	SOUTH OF PANAMA	40 D	4.8	1.3	32
25	14	33	33.3*	7.1 N	80.1 W	PANAMA	N	4.0	1.2	8
25	16	25	12.3	45.1 N	151.7 E	KURILE ISLANDS	7	4.1	0.6	9
25	20	32	01.7	8.3 S	71.3 W	WESTERN BRAZIL	583	4.2	0.7	15
25	22	26	27.4	28.6 N	60.4 E	SOUTHERN IRAN	43	4.8	0.9	21
25	22	47	58.4	45.3 N	151.6 E	KURILE ISLANDS	43 D	5.6	1.2	165
						MAG. 5.2-5.6 (BRK), 5 3/4 (PAL), 5 3/4-6 (GOL).				
25	22	54	33.4*	31.4 N	116.2 W	BAJA CALIFORNIA	N	4.4	1.5	7
						MAG. 3.6 (PAS).				
26	00	04	59.1	46.9 N	150.2 E	KURILE ISLANDS	N	4.2	1.7	6
26	01	30	56.5	35.9 N	140.1 E	NEAR EAST COAST OF HONSHU, JAPAN	42	4.0	1.5	10
26	02	41	58.2*	20.6 S	69.2 W	NORTHERN CHILE	118	4.1	1.1	12
26	03	08	28.4	27.3 N	67.5 E	WEST PAKISTAN	N	4.9	1.3	33
26	04	24	12.4	64.1 N	146.8 W	CENTRAL ALASKA	18	4.4	1.3	35
						FELT IN BIG DELTA AREA.				
26	07	46	27.0	2.8 N	129.1 E	HALMAHERA	143	5.2	1.1	11
26	07	51	08.5	51.5 N	174.6 E	NEAR ISLANDS, ALEUTIAN ISLANDS	N	4.2	1.2	19
26	09	53	25.1*	18.9 S	169.2 E	NEW HEBRIDES ISLANDS	218	3.9	0.9	5
26	16	22	09.5	27.7 N	139.8 E	BONIN ISLANDS REGION	449	4.1	0.7	27
26	16	30	31.8	3.0 N	77.8 W	NEAR WEST COAST OF COLOMBIA	76	4.6	1.1	26
26	17	00	32.9	5.5 N	126.3 E	MINDANAO, PHILIPPINE ISLANDS	83	5.6	1.1	31
26	20	35	06.8	7.4 S	67.8 E	MID-INDIAN RISE	N	4.7	1.1	16
26	21	09	55.8*	35.7 S	179.5 W	EAST OF NORTH ISLAND, N.Z.	N		1.8	9
26	21	27	11.5	34.4 N	139.0 E	NEAR S. COAST OF HONSHU, JAPAN	N	4.6	1.5	14
26	22	39	01.4	9.3 S	148.6 E	EAST NEW GUINEA REGION	14	5.4	1.1	64
26	23	56	48.2	10.4 S	73.9 W	PERU	133	4.5	0.8	32
27	08	09	45.8	15.6 N	80.1 E	INDIA	17 D	5.4	1.4	58
27	08	26	34.6	8.9 S	71.4 W	WESTERN BRAZIL	605 D	5.3	0.9	138
27	08	58	25.5	38.5 N	116.6 E	NORTHEASTERN CHINA	59 D	5.5	1.2	144
						MAG. 5 3/4-6 (GOL).				
27	09	24	54.2*	58.7 S	149.4 E	WEST OF MACQUARIE ISLAND	N	5.3	1.5	10

MAR	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
27	10	01	41.7	16.4	S	168.1	E	NEW HEBRIDES ISLANDS	5 G	5.1	1.3	91
								FELT AT LONDRORE, LUGANVILLE, AND PORT VILA.				
								MAG. 6 1/4 (PAS), 6.4-6.6 (BRK), 6 1/4-6 1/2 (GOL)				
27	10	06	24.9*	45.3	N	151.1	E	KURILE ISLANDS	90	3.8	0.6	6
27	11	21	43.9*	36.1	N	141.3	E	NEAR EAST COAST OF HONSHU, JAPAN	N	3.9	0.8	6
27	11	39	33.5	35.6	N	139.0	E	NEAR S. COAST OF HONSHU, JAPAN	39	4.6	1.1	23
								FELT AT TOKYO.				
27	14	40	13.2	12.2	N	87.7	W	NEAR COAST OF NICARAGUA	54	4.2	1.1	19
27	18	19	31.9*	5.8	N	126.4	E	MINDANAO, PHILIPPINE ISLANDS	N		1.2	9
27	19	53	42.5	20.0	N	38.5	E	RED SEA	N	5.1	1.4	67
27	20	14	43.5	16.6	S	168.4	E	NEW HEBRIDES ISLANDS	17	4.9	0.8	9
27	22	18	01.4*	22.6	S	67.4	W	CHILE-BOLIVIA BORDER REGION	155	4.1	1.0	9
28	00	04	27.6	38.5	N	25.3	E	AEGEAN SEA	33	4.3	1.5	40
28	00	30	40.7	36.7	N	71.3	E	AFGHANISTAN-USSR BORDER REGION	237	4.5	1.3	11
28	02	41	33.5	19.9	N	38.7	E	RED SEA	27	6.7	1.5	12
28	03	29	40.8*	16.2	S	74.3	W	NEAR COAST OF PERU	62	4.3	1.1	6
28	03	48	59.1*	35.5	N	111.7	W	EASTERN ARIZONA	5 G		1.9	6
28	04	51	32.2	5.0	S	81.0	W	NEAR COAST OF NORTHERN PERU	60 G	4.4	1.1	20
28	05	01	43.7	31.2	S	177.9	W	KERMADEC ISLANDS	31	4.3	1.2	13
28	06	10	13.5	14.0	S	166.4	E	NEW HEBRIDES ISLANDS	75	4.4	1.7	9
28	08	24	01.0	43.0	N	144.8	E	HOKKAIDO, JAPAN REGION	59	4.0	0.8	15
28	08	59	28.7*	2.3	N	97.1	W	WEST OF GALAPAGOS ISLANDS	N	4.2	1.2	6
28	12	23	58.1	37.4	N	118.5	W	CALIFORNIA-NEVADA BORDER REGION	9	3.7	0.6	9
								MAG. 3.5 (PAS), 3.9 (BRK).				
28	13	52	39.3*	20.4	N	145.5	E	MARIANA ISLANDS	99	4.2	1.3	11
28	15	49	22.8	50.6	N	3.9	E	BELGIUM	21	3.9	1.2	18
28	19	32	26.6	17.1	N	122.5	E	LUZON, PHILIPPINE ISLANDS	62	5.3	1.1	79
28	20	24	29.1*	5.6	S	129.5	E	BANDA SEA	299	4.4	1.7	5
28	20	31	35.4	45.2	N	109.9	W	MONTANA	N	3.6	0.9	6
28	21	20	01.6*	30.4	S	177.5	W	KERMADEC ISLANDS REGION	N	4.4	0.9	10
28	21	23	05.4	17.1	N	122.6	E	LUZON, PHILIPPINE ISLANDS	44	4.4	0.7	15
28	23	50	13.4	29.7	N	138.8	E	SOUTH OF HONSHU, JAPAN	410	4.1	0.7	18
29	01	07	23.1	4.8	S	103.2	E	SOUTHERN SUMATRA	83	5.4	1.1	37
29	01	48	41.7	30.4	S	177.6	W	KERMADEC ISLANDS REGION	60	4.5	1.3	26
29	04	47	10.6	6.1	S	150.4	E	NEW BRITAIN REGION	50	4.0	1.8	12
29	06	53	10.2*	27.4	N	100.3	E	YUNNAN PROVINCE, CHINA	N	4.9	1.5	9
29	09	14	26.7*	45.2	N	150.0	E	KURILE ISLANDS	N		1.1	6
29	09	31	31.1	7.3	S	68.0	E	CHAGOS ARCHIPELAGO REGION	N	5.0	0.9	30
29	10	01	13.1	44.4	N	148.5	E	KURILE ISLANDS	52	4.3	1.2	16
29	10	33	38.0	2.4	S	138.5	E	WEST NEW GUINEA	33	5.2	1.6	36
29	12	49	15.3	16.4	S	168.3	E	NEW HEBRIDES ISLANDS	7	4.7	1.0	11
29	13	12	52.9	16.5	S	168.2	E	NEW HEBRIDES ISLANDS	N	5.2	1.3	25
29	16	51	49.4	2.5	N	128.9	E	HALMAHERA	128	4.9	1.3	18
29	17	09	23.7	20.2	S	179.0	W	FIJI ISLANDS REGION	636	4.7	1.2	43
29	19	53	57.9	15.3	S	172.9	W	SAMOA ISLANDS REGION	N	4.7	0.7	19
29	20	43	22.6	8.5	S	122.6	E	FLORES ISLAND REGION	109	5.3	1.1	21
29	22	16	26.7*	24.0	S	66.1	W	SALTA PROVINCE, ARGENTINA	195	4.2	0.7	8
30	02	08	03.2	11.1	S	115.4	E	SOUTH OF BALI ISLAND	N	6.0	1.3	184
30	03	27	42.2	85.9	N	83.5	E	NORTH OF SEVERNAYA ZEMLYA	N	4.4	0.8	17
30	03	34	46.1	16.4	S	168.1	E	NEW HEBRIDES ISLANDS	32	4.7	1.2	12
30	05	30	44.3	13.9	N	89.5	W	EL SALVADOR	N	4.0	1.2	7
								FELT AT SAN SALVADOR.				
30	08	41	08.6	85.6	N	85.8	E	NORTH OF SEVERNAYA ZEMLYA	N	4.7	1.1	30
30	13	09	49.4	36.4	N	71.0	E	AFGHANISTAN-USSR BORDER REGION	146	4.3	1.2	17
30	15	32	38.3	45.1	N	149.1	E	KURILE ISLANDS	104	4.6	1.1	33
30	19	17	54.5	54.0	N	163.1	W	UNIMAK ISLAND REGION	14	4.1	1.5	10
30	23	04	45.5	16.9	S	177.0	W	FIJI ISLANDS REGION	N	5.1	1.5	40
31	02	12	14.9	52.1	N	169.7	W	FOX ISLANDS, ALEUTIAN ISLANDS	7	5.3	1.1	121
31	02	15	39.7	14.7	S	167.4	E	NEW HEBRIDES ISLANDS	157	4.8	1.4	9
31	03	18	23.6	20.0	N	38.4	E	RED SEA	N	4.9	1.2	54
31	04	18	31.3	63.1	N	148.5	W	CENTRAL ALASKA	82	4.5	1.1	33
								FELT AT CANTWELL.				
31	06	43	08.9	38.9	N	28.4	W	AZORES ISLANDS	N	4.4	1.0	15
31	06	54	38.9	12.8	N	123.0	E	LUZON, PHILIPPINE ISLANDS	N	5.1	1.1	39
								FELT AT MARINDUQUE.				
31	08	24	03.5	2.3	S	76.4	W	PERU-ECUADOR BORDER REGION	177	3.9	1.1	13

MAR	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	SD	N
31	09	15	29.3	51.8 N	176.2 E	RAT ISLANDS, ALEUTIAN ISLANDS	49	4.5	1.1	56
31	10	29	43.7	36.0 S	102.4 W	SOUTHERN PACIFIC OCEAN	N	4.9	1.6	22
31	10	34	00.5	35.6 S	103.0 W	SOUTHERN PACIFIC OCEAN	N	4.8	0.9	19
31	10	46	17.6*	17.1 S	167.5 E	NEW HEBRIDES ISLANDS	28		1.2	11
31	15	08	50.9	36.3 N	138.6 E	HONSHU, JAPAN	N		1.9	5
31	18	37	34.5	2.5 N	128.8 E	HALMAHERA	129	5.0	1.3	12
31	20	05	18.8	15.3 S	167.5 E	NEW HEBRIDES ISLANDS FELT AT LUGANVILLE.	131	5.4	1.0	142
31	21	07	00.1	34.3 N	139.1 E	NEAR S. COAST OF HONSHU, JAPAN	33	4.4	1.2	21
31	22	32	03.5*	34.1 N	139.3 E	NEAR S. COAST OF HONSHU, JAPAN	N	4.2	1.4	7

Date and Station	Phase	(GCT)
		h m s
MAR 1		
BMO	E(P)	00 23 52.7
MAR 1		
BMO	E(P)	00 24 18.8
MAR 1		
H-01 20 04.9		
25.4N 109.7W		
h ABOUT 33KM		
TUC	E(P)	01 21 44.2
	EL	23 13.0
ALQ	EP D	01 22 29.5
	E	22 35.0
	EL	25 27.5
BCN	E(P)	01 22 49.8
	E(L)	26 18.8
GCA	EP	01 22 53.9
	ELG	26 12.5
EUR	EP	01 23 38.2
	EL	28 17.9
SLD	EP	01 23 39.5
BOZ	E(P)	01 24 32.5
	E	24 41.5
BMO	EP	01 24 40.7
	E	24 50.9
HHM	EP	01 25 10.6
	E	25 16.8
	F	25 30.8
NEW	EP	01 25 14.0
COL	EP	01 28 29.0
MAR 1		
TUC	E(P)	01 32 18.5
BMO	EP	01 35 18.6
MAR 1		
H-04 38 21.5		
6.3S 149.2E		
h ABOUT 62KM		
COL	IP	04 50 48.2
MAR 1		
BMO	IP	05 30 04.0
MAR 1		
SJG	EP	05 56 55.0
	IS	57 19.8
MAR 1		
BUT	E(P)	06 07 36.3
MAR 1		
H-06 10 19.0		
34.2N 116.8W		
h ABOUT 13KM		
LVN	IP	06 10 57.5
	IL	11 31.5
BCN	IPND	06 10 58.1
	IL	11 33.8
SLD	EP	06 11 29.9
	E(S)	12 35.0
	IL	12 45.0
GCA	IP	06 11 38.4
	ILG	12 55.5
TUC	EP	06 11 40.0
	EL	13 07.0
EUR	EP	06 11 40.6
	I	11 57.5
	IL	13 08.2
ALQ	E(P)	06 12 36.0
	E	14 50.5
MAR 1		
H-06 37 06.9		
24.7S 111.4W		
h ABOUT 33KM		
EUR	IP	06 47 38.2
MAR 1		
BMO	E(P)	08 29 04.3
MAR 1		
PMR	IP D	08 42 31.1
MAR 1		
H-09 21 33.0		
30.4N 140.4E		
h ABOUT 157KM		
COL	E(P)	09 30 52.5
BMO	FP	09 33 10.6
	E	33 31.6
MAR 1		
H-10 12 48.1		
28.0N 56.8E		
h ABOUT 33KM		
BRW	EP	10 24 45.3
COL	EP	10 25 23.0
EUR	EP'	10 31 23.0
MAR 1		
EUR	E(P)	10 42 17.7
MAR 1		
H-11 51 34.7		
63.0N 151.3W		
h ABOUT 127KM		
PMR	IP D	11 52 06.7
	IL	52 31.1
COL	IP D	11 52 14.0
BRW	IP	11 53 36.0
BMO	EP	11 57 01.8
	E	57 32.7
EUR	E(P)	11 58 47.0
MAR 1		
BHP	EP	12 44 15.9
	IS	44 44.5
MAR 1		
SLD	IP	14 07 42.8
	IS	07 48.8
MAR 1		
EUR	E(P)	14 09 11.0
	EL	10 18.8
MAR 1		
H-14 24 26.3		
1.6N 126.4E		
h ABOUT 43KM		
BRW	IP C	14 36 55.4
PMR	EP	14 37 03.2
COL	EP	14 37 10.0
BMO	EP'	14 42 48.9
EUR	IP'	14 42 56.5
TUC	EP'	14 43 07.2
ALQ	EP'	14 43 13.0
MAR 1		
BMO	IP	14 24 44.0
MAR 1		
BHP	EP	14 25 08.1
	IS	25 38.0
MAR 1		
BMO	IP	14 30 11.8
MAR 1		
BMO	IP	14 31 09.1
MAR 1		
BCN	EPN	14 50 35.3
	EL	51 00.3
EUR	EP	14 50 39.5
	EL	51 13.5
MAR 1		
BUT	E(P)	14 53 55.3
BMO	E(P)	14 54 07.2
	E	54 23.2
MAR 1		
EUR	EP	14 59 08.8
	E(L)	59 41.5
MAR 1		
BMO	IP	15 31 38.5
MAR 1		
KDC	E(P)	18 04 08.4
MAR 1		
H-18 39 54.5		
36.6N 138.3E		
h ABOUT 6KM		
COL	EP	18 48 58.0
NEW	EP	18 51 22.0
BMO	EP	18 51 33.7
BOZ	EP	18 51 48.5
EUR	IP	18 51 57.1
ALQ	EP	18 52 43.4
MAR 1		
BOZ	EPN	19 05 09.2
	EL	05 18.6
MAR 1		
COL	EP	19 57 09.0
MAR 1		
BHP	IP C	20 15 12.7
	IS	15 17.4
MAR 1		
BCN	(PN)	21 13 40.8
MAR 1		
BMO	IP	21 55 38.9
MAR 1		
BCN	E(P)	21 58 09.3
	E(L)	58 26.3
GCA	IP	21 58 19.7
	E(S)	58 41.3
EUR	IP	21 58 35.1
BOZ	E(P)	21 59 26.0
MAR 1		
SLD	EP	22 10 29.8
	E(S)	10 43.2
MAR 1		
H-22 16 35.4		
51.2N 179.3W		
h ABOUT 79KM		
COL	EP	22 21 15.0
BRW	EP	22 21 29.7
NEW	IP	22 23 57.4
BMO	IP	22 24 11.2
SLD	EP C	22 24 27.8
BOZ	IP C	22 24 34.8
EUR	IP C	22 24 42.2
	IPCP	26 23.7
SLC	EP	22 24 56.1
BCN	EP	22 25 04.7
RCD	EP	22 25 20.0
TUC	IP C	22 25 42.0
ALQ	EP C	22 25 49.2
MAR 1		
KDC	EP	22 20 57.8

Date and Station	Phase (GCT)
	h m s
MAR 1	
BMO E(P)	22 26 10.0
MAR 1	
BMO E(P)	22 30 01.4
E	30 11.0
MAR 1	
BOZ E(P)	22 33 21.0
MAR 1	
HHM EP	22 54 12.8
MAR 1	
BCN EPN	22 55 57.9
E(L)	56 33.9
MAR 1	
ALQ E(P)	23 03 37.6
E	03 56.5
E(L)	04 28.5
MAR 1	
KDC EP	23 08 54.4
MAR 1	
ALQ EP	23 04 28.5
MAR 1	
BOZ EPN	23 15 49.0
EL	15 59.0
MAR 2	
BMO IP	00 35 10.6
MAR 2	
BMO IP	00 53 08.7
COL EP	00 53 25.2
MAR 2	
H-01 11 45.7	
61.7N 151.8W	
h ABOUT 33KM	
COL EP	01 12 42.0
BMO E(P)	01 17 19.6
MAR 2	
KDC EP	01 13 19.9
MAR 2	
HON IP	01 27 27.1
MAR 2	
H-02 47 32.4	
.2S 78.6W	
h ABOUT 124KM	
BHP IP C	02 49 42.8
IS	51 27.2
SJG IP D	02 52 17.5
IPP	52 55.5
IS	56 13.5
CSC IP	02 54 06.2
EpP	54 34.0
EPCP	56 40.0
ALQ IP D	02 55 27.0
EpP	55 53.0
EsP	56 04.0
TUC IP	02 55 32.9
E	57 13.5
GCA IP D	02 56 02.7
E	57 03.0
IPCP	57 28.1
BCN IP D	02 56 11.9
FGU IP D	02 56 14.2
IPCP	57 32.4
IPP	58 10.8
SLC IP	02 56 21.8
EUR IP	02 56 33.0
BOZ IP D	02 56 46.4
SLD IP D	02 56 46.9
IPCP	57 49.5
BUT EP	02 56 52.1
BMO IP	02 57 02.1
HHM IP D	02 57 10.0
NEW IP	02 57 18.1
KIP IP C	02 59 32.5
COL IP	02 59 36.2
EPP	03 02 44.0
BRW IP D	03 00 01.7
EPP	03 22.4
MAR 2	
PMR IP D	03 02 21.9
ES	02 37.8
MAR 2	
H-03 25 26.5	
31.1N 131.6E	
h ABOUT 33KM	
EUR E(P)	03 38 08.6
MAR 2	
NEW EP	03 27 02.0
MAR 2	
EUR IP	03 33 57.8
BMO EP	03 34 15.5
MAR 2	
BMO IP	04 00 55.7
MAR 2	
PMR IP	04 22 57.6
MAR 2	
H-05 58 20.1	
24.4S 179.4W	
h ABOUT 388KM	
TUC EP	06 10 21.5
EUR IP	06 10 22.8
BMO EP	06 10 33.2
ALQ EP	06 10 41.2
COL EP	06 10 46.0
BOZ E(P)	06 10 50.3
MAR 2	
BMO E(P)	06 19 03.2
COL EP	06 19 25.0
MAR 2	
H-06 29 24.4	
34.5N 111.0W	
h ABOUT 14KM	
TUC EPN	06 30 00.8
GCA IP	06 30 08.7
ILG	30 40.2
ALQ E(P)	06 30 23.0
E	30 31.4
EL	31 15.6
BCN E(P)	06 30 30.4
EL	31 24.4
FGU E(P)	06 31 03.2
E	31 11.8
ELG	32 45.3
EUR E(P)	06 31 13.5
NEW E(P)	06 33 02.0
MAR 2	
COL EP	06 36 20.0
MAR 2	
H-07 10 55.9	
40.4N 124.7W	
h ABOUT 27KM	
UKI EPN	07 11 24.6
SLD IP D	07 12 00.9
ES	12 48.6
EUR IP	07 12 35.8
BMO EP	07 12 41.4
E	12 48.0
BOZ E(P)	07 13 32.5
ALQ E(P)	07 14 36.0
RCD EP	07 14 43.0
MAR 2	
H-07 55 24.6	
32.0N 55.8E	
h ABOUT 33KM	
COL IP	08 07 40.5
MAR 2	
H-08 17 44.2	
35.6N 140.0E	
h ABOUT 73KM	
COL IP	08 26 40.7
NEW IP	08 29 01.8
EsP	29 23.0
BMO IP	08 29 12.9
EpP	29 30.6
HHM E(P)	08 29 13.5
BOZ EP	08 29 29.0
EpP	29 47.0
EUR EP	08 29 35.2
EpP	29 53.3
E	33 20.5
FGU EP	08 29 53.7
EpP	30 11.6
EsP	30 18.5
TUC E(P)	08 30 15.0
ALQ E(P)	08 30 21.2
MAR 2	
EUR E(P)	08 23 17.5
MAR 2	
H-09 51 43.6	
41.7N 71.4E	
h ABOUT 26KM	
COL E(P)	10 03 01.0
MAR 2	
COL EP	10 05 47.0
MAR 2	
ALQ E(P)	10 32 25.5
EUR EP	10 33 40.2
MAR 2	
ALQ E(P)	11 32 38.8
MAR 2	
H-11 47 12.7	
28.7N 86.4E	
h ABOUT 23KM	
COL EP	11 59 08.0
MAR 2	
PMR IP	12 11 22.4
MAR 2	
PMR IP D	12 27 13.7
MAR 2	
H-13 21 41.7	
21.3N 108.8W	
h ABOUT 33KM	
TUC EP	13 24 20.6
EL	26 20.0
ALQ EP C	13 24 58.2
EL	28 40.0
BCN EP	13 25 21.1
GCA EP	13 25 27.0
SLD EP	13 26 04.5

Date and Station	Phase	(GCT)
		h m s
EUR	IP	13 26 05.2
FGU	EP	13 26 10.9
SLC	EP	13 26 11.8
	E	26 37.0
	E	26 37.3
RCD	EP	13 26 48.0
BMO	EP	13 26 59.0
BOZ	E(P)	13 27 00.0
HHM	E(P)	13 27 29.0
NEW	EP	13 27 30.0
COL	EP	13 30 39.0
MAR 2		
COL	EP	13 44 40.0
MAR 2		
H-14 12 49.7		
36.3N 117.8W		
h ABOUT 12KM		
LVN	EP	14 13 25.0
	ES	13 55.5
BCN	EPN	14 13 27.4
SLD	E(P)	14 13 36.0
	I	13 38.4
	EL	14 17.7
EUR	I(P)	14 13 41.9
GCA	EP	14 14 05.9
	I	14 18.3
	ILG	15 20.8
UKI	E(P)	14 14 19.5
SLC	E(P)	14 14 25.6
TUC	EPN	14 14 31.5
	EL	16 26.5
FGU	EP	14 14 51.0
	I	15 20.0
	ILG	16 54.5
BMO	EPN	14 14 56.1
ALQ	EP	14 15 05.0
	F	15 44.0
	FL	17 58.0
BOZ	E(P)	14 15 23.0
	FL	18 07.5
NEW	EP	14 15 47.0
HHM	E(P)	14 15 49.5
	EL	19 16.0
MAR 2		
SLC	EPG	14 14 51.0
	EL	16 08.7

Date and Station	Phase	(GCT)
		h m s
MAR 2		
BCN	EPN	14 20 37.4
	E(L)	21 07.4
SLD	E(P)	14 20 43.2
	I	20 47.5
	EL	20 26.5
MAR 2		
EUR	EP	14 35 54.5
	EL	36 38.0
MAR 2		
H-15 00 00.0		
37.0N 116.0W		
h ABOUT 0KM		
BCN	EPN	15 00 28.4
EUR	IP	15 00 39.9
GCA	EP	15 00 58.5
	ILG	01 54.0
SLD	E(P)	15 01 11.7
	I	01 16.1
	IL	02 08.5
SLC	E(P)	15 01 17.3
TUC	EPN	15 01 38.1
	EL	03 27.0
FGU	EP	15 01 42.0
BMO	EPN	15 01 57.3
ALQ	E(P)	15 02 01.4
	E	02 30.0
	E	04 16.0
BOZ	E(P)	15 02 18.0
	E	02 45.0
NEW	EP	15 02 46.0
MAR 2		
BCN	E(P)	15 17 59.4
EUR	IP	15 18 10.7
SLD	E(P)	15 18 48.0
	EL	19 45.0
TUC	E(P)	15 19 26.5
ALQ	E(P)	15 20 03.6
MAR 2		
BMO	EP	17 00 26.2
MAR 2		
H-18 11 32.2		
16.5N 99.5W		
h ABOUT 43KM		
TUC	E(P)	18 15 51.0
ALQ	EP	18 15 57.5
BOZ	E(P)	18 17 46.3
MAR 2		
EUR	IP	18 18 25.2

Date and Station	Phase	(GCT)
		h m s
MAR 2		
EUR	EP	19 32 17.1
MAR 2		
BRW	EP	19 37 04.4
MAR 2		
ALQ	E(P)	20 09 58.4
	E(L)	10 28.0
MAR 2		
EUR	IP	20 33 17.7
MAR 2		
H-20 47 40.3		
52.3N 160.6E		
h ABOUT 36KM		
BRW	EP	20 53 20.7
COL	IP	20 53 35.3
NEW	EP	20 56 33.0
HHM	E(P)	20 56 46.0
BMO	EP	20 56 49.3
BOZ	EP	20 57 06.5
	E	57 18.2
EUR	IP	20 57 19.8
RCD	E(P)	20 57 45.0
ALQ	EP	20 58 18.6
MAR 2		
ALQ	E(P)	21 18 40.0
	E	19 17.0
MAR 2		
BUT	E(P)	21 56 03.1
	E(S)	56 16.1
BOZ	EPN	21 56 04.5
	EL	56 21.5
HHM	EPN	21 56 48.7
	EL	57 26.5
NEW	EP	21 56 57.0
MAR 2		
EUR	E(P)	21 59 18.5
	EL	22 00 07.0
MAR 2		
SLD	IP	22 01 29.6
	IS	01 42.4
MAR 2		
ALQ	E(P)	22 29 00.0
	E(L)	29 45.6
MAR 2		
BUT	EPN	22 58 49.0
BOZ	E(P)	22 59 00.0
MAR 2		
H-23 03 44.7		
53.6N 160.6E		
h ABOUT 64KM		

Date and Station	Phase	(GCT)
		h m s
BRW	EP C	23 09 11.1
	E	09 41.7
COL	EP	23 09 28.0
NEW	EP	23 12 29.0
HHM	E(P)	23 12 42.0
BMO	EP	23 12 44.8
BOZ	EP	23 13 02.0
EUR	IP	23 13 18.4
RCD	EP	23 13 40.0
ALQ	EP	23 14 16.2
	E(S)	22 06.0
MAR 2		
SLD	E(P)	23 13 25.1
MAR 2		
H-23 17 17.8		
15.4N 96.4W		
h ABOUT 34KM		
TUC	E(P)	23 22 04.0
MAR 2		
BCN	E(P)	23 19 33.0
MAR 2		
EUR	E(P)	23 21 32.0
MAR 2		
PMR	IP D	23 38 45.2
MAR 2		
NEW	EP	23 58 22.0
MAR 3		
H-01 00 19.0		
14.5N 92.2W		
h ABOUT 27KM		
ALQ	EP	01 05 35.0
EUR	EP	01 06 50.4
BOZ	E(P)	01 07 12.0
BMO	EP	01 07 29.2
MAR 3		
PMR	IP C	01 12 06.1
	ES	12 22.7
MAR 3		
SLD	EP	01 24 14.0
	EL	24 42.5
EUR	IP	01 24 30.8
MAR 3		
H-02 30 08.0		
22.1S 69.5W		
h ABOUT 116KM		
ALQ	EP	02 40 49.0
BMO	EP	02 42 04.5

Date and Station	Phase (GCT)
	h m s
MAR 3	
PMR IP C	02 59 33.9
MAR 3	
H-03 01 37.9	
34.5S 99.4W	
h ABOUT 33KM	
TUC E(P)	03 12 32.2
EUR IP	03 13 20.4
BMO E(P)	03 13 46.9
BOZ E(P)	03 13 47.5
NEW EP	03 14 05.0
MAR 3	
H-03 02 00.0	
61.9N 151.4W	
h ABOUT 76KM	
COL IP	03 02 52.3
BMO EP	03 07 27.7
EUR EP	03 08 13.1
MAR 3	
NEW EP	03 51 11.0
MAR 3	
EUR E(P)	03 58 01.5
MAR 3	
BOZ EP	04 32 10.3
MAR 3	
H-05 48 53.3	
5.3S 68.4E	
h ABOUT 24KM	
BMO EP'	06 08 17.8
EPP	11 06.4
BOZ EP'	06 08 21.5
FGU EP'	06 08 28.8
E	08 37.3
EUR IP'D	06 08 32.8
EPP	06 11 51.5
SLD EP'D	06 08 37.6
I	08 45.2
BCN EP'	06 08 44.2
ALQ EP'	06 08 45.0
EPP	12 18.0
TUC EP'	06 08 52.3
MAR 3	
FUR IP	06 01 22.7
MAR 3	
SLD E(P)	06 33 34.8
ES	33 46.0
MAR 3	
BMO EP	07 36 01.7
ALQ E(P)	07 38 26.0
COL EP	07 38 39.0
MAR 3	
FGU IP C	08 30 25.1
IS	30 36.5
MAR 3	
H-08 52 47.3	
.4S 129.7E	
h ABOUT 33KM	
COL E(P)	09 05 37.0
MAR 3	
EUR IP	09 52 38.0
MAR 3	
COL EP	10 24 26.0
MAR 3	
EUR IP	11 47 19.2
BOZ E(P)	11 47 48.5
MAR 3	
NEW EP	12 00 00.0
MAR 3	
NEW EP	12 34 10.0
MAR 3	
H-12 43 58.8	
50.2S 139.1E	
h ABOUT 33KM	
EUR EP'	13 03 18.7
MAR 3	
H-12 45 57.6	
50.3S 139.8E	
h ABOUT 33KM	
BMO EP'	13 05 04.7
EUR IP'	13 05 06.2
MAR 3	
NEW EP	13 49 29.0
COL E(P)	13 52 07.0
MAR 3	
BMO EP	14 01 06.3
COL EP	14 01 17.0
MAR 3	
COL EP	14 03 52.0
MAR 3	
BMO E(P)	14 03 02.3
HHM E(P)	14 03 05.0
MAR 3	
FGU EP	14 17 05.2
I	17 08.2
IS	17 26.7
ILG	17 31.0
MAR 3	
H-14 40 13.9	
50.2S 139.7E	
h ABOUT 34KM	
BMO EP'	14 59 19.6
MAR 3	
NEW EP	14 47 29.0
MAR 3	
BOZ E(P)	15 57 53.7
E	58 05.6
MAR 3	
EUR IP	16 59 00.7
MAR 3	
RCD EP	18 10 38.0
E	20 58.0
E	21 12.0
MAR 3	
PMR IP	19 31 55.8
IS	32 01.6
MAR 3	
SLD IP	19 32 41.4
IS	32 54.5
MAR 3	
H-19 39 46.3	
13.1N 90.4W	
h ABOUT 65KM	
EUR EP	19 46 32.0
BMO EP	19 47 08.8
MAR 3	
BMO E(P)	20 33 51.8
MAR 3	
SLD E(P)	20 36 35.5
MAR 3	
H-20 49 47.3	
19.0S 169.2E	
h ABOUT 219KM	
COL E(P)	21 02 19.5
EUR IP	21 02 27.0
MAR 3	
FGU IP C	22 29 51.6
ILG	30 18.3
EUR EP	22 30 44.5
MAR 3	
FGU IP	23 00 54.6
ELG	01 17.1
MAR 4	
H-00 00 20.9	
43.9N 12.9E	
h ABOUT 33KM	
BMO E(P)	00 12 35.5
MAR 4	
BOZ E(P)	00 06 51.5
E	07 17.0
MAR 4	
BHP IP D	00 20 37.5
IS	21 01.0
MAR 4	
EUR IP	00 59 30.5
MAR 4	
H-01 12 31.9	
24.8N 121.9E	
h ABOUT 72KM	
NEW IP	01 25 27.0
BMO EP	01 25 36.5
MAR 4	
PMR IP	01 25 43.7
IS	25 49.0
MAR 4	
NEW IP	02 15 20.7
ES	15 58.0
MAR 4	
PMR IP D	03 55 17.5
IS	55 29.8
MAR 4	
H-05 09 23.9	
21.4N 121.9E	
h ABOUT 126KM	
ADK EP	05 18 50.5
BRW EP C	05 20 05.7
PMR IP D	05 20 28.1
COL IP	05 20 28.6
ES	29 33.0
SIT E(P)	05 21 15.5
NEW IP	05 22 24.4
HHM IP D	05 22 32.0
EPCP	22 37.5
BMO EP	05 22 33.0
BOZ EP	05 22 45.5
EUR IP C	05 22 50.6
EPP	26 34.6
EPKKP	39 44.6
TUC EP'	05 27 35.0
ALQ EP'	05 27 38.0
MAR 4	
GUA EP	05 14 40.0
ES	18 22.0
MAR 4	
NEW EP	05 30 10.0
MAR 4	
PMR EP	05 41 33.6
ES	41 53.8

Date and Station	Phase	(GCT) h m s
MAR 4		
H-06 16 22.7		
18.5S 175.4W		
h ABOUT 227KM		
KIP	IP D	06 24 02.6
	I	24 53.4
GUA	IP	06 25 00.0
	ES	31 04.0
ADK	IP	06 27 10.0
BCN	EP	06 28 01.0
	EpP	28 57.1
TUC	EP	06 28 07.5
	EpP	29 02.0
	ES	37 56.0
EUR	EP C	06 28 08.0
	IpP	29 02.7
	EPP	31 50.7
	E(S)	37 45.5
	EPKKP	46 43.0
GCA	EP	06 28 17.2
	IpP	29 11.7
BMO	IP	06 28 19.5
	IpP	29 14.5
PMR	IP	06 28 20.1
SLC	EP	06 28 25.7
NEW	IP	06 28 30.0
	EpP	29 25.0
ALQ	IP C	06 28 30.6
	EpP	29 25.0
	ES	38 40.0
FGU	IP D	06 28 34.5
	IpP	29 28.8
BUT	E(P)	06 28 35.4
COL	IP D	06 28 35.9
	IS	38 40.0
	EPS	38 48.0
	E	40 27.0
HHM	EP	06 28 38.5
	EPKKP	46 38.0
BOZ	EP	06 28 39.0
	IpP	29 33.5
	EPKKP	46 39.5
BRW	EP	06 28 59.2
HHM	E(P)	06 29 33.5
BUT	EpP	06 29 30.4
MAR 4		
EUR	E(P)	06 54 55.5
MAR 4		
H-07 04 29.3		
16.0N 98.6W		
h ABOUT 53KM		
ALQ	E(P)	07 09 00.5
MAR 4		
H-10 15 30.6		
11.7S 165.4E		
h ABOUT 33KM		
COL	E(P)	10 27 51.0
MAR 4		
GCA	IP	10 42 53.3
	ES	43 12.6
EUR	EP	10 43 12.8
MAR 4		
COL	E(P)	10 44 56.5
MAR 4		
H-10 43 17.3		
11.3S 165.7E		
h ABOUT 29KM		
COL	EP	10 55 43.0
EUR	E(P)	10 56 08.5
MAR 4		
H-10 45 40.3		
11.4S 165.7E		
h ABOUT 45KM		
COL	EP	10 58 04.0
BMO	E(P)	10 58 29.0
MAR 4		
COL	EP	11 35 51.0
MAR 4		
COL	EP	11 40 00.4
MAR 4		
BMO	EP	12 30 01.5
BOZ	E(P)	12 30 13.5
COL	IP	12 30 24.5
MAR 4		
COL	EP	12 46 33.0
MAR 4		
H-13 08 36.7		
32.6N 141.1E		
h ABOUT 65KM		
COL	E(P)	13 17 48.5
BMO	EP	13 20 13.2
BOZ	E(P)	13 20 30.1
EUR	EP	13 20 35.0
MAR 4		
H-14 18 44.5		
36.8N 71.0E		
h ABOUT 45KM		
COL	EP	14 30 18.0
MAR 4		
NEW	EP	14 37 20.0
COL	EP	14 41 37.0
MAR 4		
BMO	EP	14 44 57.0
EUR	E(P)	14 45 32.2
MAR 4		
H-14 59 38.6		
52.0N 170.5W		
h ABOUT 36KM		
ADK	IP	15 00 36.7
COL	EP	15 03 39.0
NEW	EP	15 06 18.0
BMO	EP	15 06 35.0
	E	06 43.5
HHM	E(P)	15 06 37.0
BOZ	E(P)	15 06 56.7
EUR	IP	15 07 05.0
TUC	E(P)	15 08 06.5
	EpP	08 19.2
ALQ	EP	15 08 15.0
MAR 4		
HHM	E(P)	15 09 02.5
MAR 4		
COL	EP	16 14 20.0
MAR 4		
COL	EP	16 28 33.0
MAR 4		
H-17 23 16.6		
19.0S 174.0W		
h ABOUT 24KM		
EUR	E(P)	17 35 24.3
BMO	EP	17 35 35.3
ALQ	EP	17 35 45.5
COL	EP	17 35 54.0
BOZ	E(P)	17 35 54.0
MAR 4		
NEW	EP	17 43 15.0
MAR 4		
H-17 58 06.2		
39.2N 24.6E		
h ABOUT 33KM		
BRW	EP	18 09 16.1
WSC	EP	18 09 40.1
	EPP	12 25.3
COL	IP	18 09 52.3
	IS	19 39.0
CHK	EP	18 10 06.6
	E(S)	20 03.0
PMR	IP	18 10 10.0
SJG	IP	18 10 11.5
	IsP	10 31.5
	IS	20 06.0
	EPS	21 00.0
	EG	31 05.0
CSC	IP	18 10 12.1
	E	10 37.0
	E	20 16.0
SIT	E(P)	18 10 27.0
HHM	IP	18 10 41.5
	E(S)	20 23.0
NEW	IP	18 10 47.5
BUT	EP	18 10 49.0
BOZ	IP D	18 10 49.0
	EPKKP	28 39.5
SLC	E(P)	18 10 56.5
BMO	IP	18 11 01.0
FGU	EP	18 11 02.5
ALQ	EP	18 11 21.0
	E(S)	23 49.0
EUR	EP	18 11 21.3
	E	14 57.3
	E(S)	23 48.7
	EPKKP	28 30.7
BCN	E(P)	18 11 27.0
BHP	IP	18 11 29.0
	IPP	15 19.0
	ES	22 03.4
TUC	EP	18 11 39.5
	EPP	15 37.0
ADK	EPP	18 12 34.0
GUA	EPP	18 15 14.0
MAR 4		
H-18 38 00.9		
39.0N 24.7E		
h ABOUT 15KM		
HHM	E(P)	18 50 38.0
BMO	E(P)	18 50 58.5
MAR 4		
BOZ	EPN	19 04 35.8
	EL	04 45.3
MAR 4		
HHM	E(P)	19 05 44.7
MAR 4		
EUR	EP	19 13 50.0
BMO	EP	19 14 10.3
COL	EP	19 14 14.0

Date and Station	Phase (GCT)
	h m s
MAR 4	
NEW FP	19 16 16.0
MAR 4	
HHM E(P)	19 54 24.5
MAR 4	
BMO IP	20 32 42.2
MAR 4	
EUR EP	21 26 57.8
MAR 4	
H-22 41 16.2	
7.9N 146.2E	
h ABOUT 33KM	
GUA I(P)	22 42 38.0
IS	43 41.0
COL EP	22 52 42.0
NEW IP	22 54 08.1
BMO EP	22 54 10.3
EpP	54 22.1
FUR IP	22 54 21.8
BOZ E(P)	22 54 28.0
MAR 4	
GUA E(P)	22 47 12.0
MAR 5	
H-01 30 25.0	
21.6S 68.2W	
h ABOUT 133KM	
BMO EP	01 42 21.0
MAR 5	
PMR EP	01 46 04.7
ES	46 30.2
MAR 5	
BMO IP	01 59 36.3
MAR 5	
COL E(P)	02 30 22.5
MAR 5	
NEW EP	03 08 15.0
MAR 5	
NEW EP	04 15 32.0
MAR 5	
PMR IP	04 18 44.5
IS	19 01.3
MAR 5	
BMO EP	04 54 14.2
MAR 5	
H-05 40 23.9	
41.3N 111.7W	
h ABOUT 11KM	
SLC IP C	05 40 35.0
EL	40 42.6
FGU IP C	05 40 54.2
IS	41 17.7
EUR EP	05 41 23.6
IL	42 23.5
BOZ EPN	05 41 37.7
BMO EPN	05 41 49.8
ALQ E(P)	05 42 20.0
E(L)	44 15.0
MAR 5	
NEW EP	05 44 14.0
MAR 5	
COL EP	06 07 20.0
EUR IP	06 08 12.4
MAR 5	
ADK IP C	06 43 00.6
BOZ E(P)	06 50 30.5
MAR 5	
ADK IP	06 43 00.8
IS	43 11.0
MAR 5	
BMO E(P)	07 03 23.6
MAR 5	
NEW EP	08 28 28.0
MAR 5	
PMR IP D	09 10 15.9
MAR 5	
SJG IP	09 19 01.5
IS	19 26.0
MAR 5	
COL EP	09 43 19.0
MAR 5	
EUR EP	09 50 14.1
MAR 5	
H-09 55 18.1	
46.6N 152.8E	
h ABOUT 62KM	
COL IP	10 02 18.8
NEW EP	10 05 02.0
BMO E(P)	10 05 26.5
BOZ EP	10 05 34.5
EpP	05 48.0
FUR E(P)	10 06 44.5
MAR 5	
H-10 13 30.1	
1.4S 77.8W	
h ABOUT 213KM	
ALO EP	10 21 27.1
MAR 5	
NEW EP	10 38 48.0
MAR 5	
H-11 10 59.3	
51.0N 130.4W	
h ABOUT 33KM	
NEW EP	11 13 12.0
BMO EP	11 13 31.2
EUR E(P)	11 14 31.5
COL E(P)	11 14 51.5
MAR 5	
ALQ EP	11 36 47.0
EUR IP	11 37 06.5
MAR 5	
COL IP	12 05 06.6
MAR 5	
COL EP	12 09 13.0
MAR 5	
PMR IP	15 36 26.5
IS	36 47.1
MAR 5	
PMR EP	16 27 43.1
IS	28 30.0
MAR 5	
CSC EP	16 57 25.5
MAR 5	
H-17 22 54.5	
45.8N 26.8E	
h ABOUT 131KM	
BMO IP	17 35 12.8
E	35 48.5
MAR 5	
BHP IP D	18 33 05.3
IS	33 27.6
MAR 5	
PMR IP	18 45 34.3
ES	45 52.0
MAR 5	
BMO IP	19 09 46.3
MAR 5	
TUC EP	19 58 18.0
MAR 5	
LVN IP	21 20 05.5
TUC E(P)	21 20 09.5
EUR IP	21 20 57.8
MAR 5	
ALQ E(P)	21 22 05.0
MAR 5	
H-21 30 47.5	
39.6N 117.9W	
h ABOUT 33KM	
EUR EP	21 31 12.4
I	31 13.9
IL	31 36.5
SLD EP	21 31 42.6
ES	32 25.0
MAR 5	
H-21 36 32.2	
8.4N 103.9W	
h ABOUT 33KM	
ALQ E(P)	21 42 12.9
EUR IP	21 43 05.8
BMO EP	21 43 49.5
NEW EP	21 44 16.0
MAR 5	
EUR IP	21 45 26.5
MAR 5	
ADK EP	21 52 06.1
IS	52 57.0
MAR 5	
BMO EP	22 00 57.6
NEW EP	22 01 15.0
MAR 5	
SLC E(P)	22 11 52.7
MAR 5	
NEW IP	23 44 47.5
IS	44 57.0
MAR 6	
BOZ E(P)	00 03 14.3
MAR 6	
ADK IP	00 22 44.4
IS	23 06.0
COL EP	00 26 37.0
MAR 6	
BMO EP	00 37 34.8
MAR 6	
H-01 05 42.9	
.6N 30.9W	
h ABOUT 33KM	
BMO EP	01 18 27.4
MAR 6	
COL E(P)	02 16 53.0
MAR 6	
PMR EP	02 20 20.3
COL EP	02 21 04.0
NEW EP	02 23 41.0
BMO EP	02 23 58.5
EUR IP	02 24 46.0

Date and Station	Phase	(GCT) h m s
MAR 6		
PMR	IP	02 28 07.0
	IS	28 17.0
MAR 6		
H-02 41 58.5		
3.9N 126.6E		
h ABOUT 80KM		
BRW	IP D	02 54 11.8
PMR	IP	02 54 19.9
COL	EP	02 54 23.0
MAR 6		
FUR	EP	03 11 45.5
MAR 6		
BMO	EP	03 55 12.2
COL	EP	03 56 02.0
MAR 6		
H-04 40 17.1		
30.6N 137.7E		
h ABOUT 478KM		
GUA	IP	04 44 00.0
	ES	47 03.0
BRW	IP C	04 48 53.2
	I	49 52.4
PMR	IP	04 49 07.3
COL	IP	04 49 11.4
NEW	IP	04 51 20.9
	EpP	53 05.0
BMO	EP	04 51 29.8
HHM	EP	04 51 31.3
	E	52 26.5
	EpP	53 16.6
SLD	EP D	04 51 38.5
	EpP	53 25.0
BUT	EP	04 51 40.6
	EpP	53 28.0
BOZ	IP C	04 51 45.2
	FpP	53 30.7
FUR	IP D	04 51 49.8
	FpP	53 35.5
SLC	E(P)	04 51 59.0
FGU	EP D	04 52 06.4
	E	53 00.9
	EpP	53 54.2
TUC	E(P)	04 52 25.0
ALQ	EP	04 52 28.0
	EpP	54 21.0
MAR 6		
FUR	EP	05 29 23.7
	I	29 28.3
	IL	30 10.4
SLD	EP	05 29 39.1
	EL	30 30.5
BMO	EPN	05 30 47.8
MAR 6		
SLD	EP	06 06 34.1
	ES	06 52.3
EUR	EP	06 07 45.2
FGU	E(P)	06 08 50.9
	ILG	09 18.0
MAR 6		
EUR	I(P)	06 08 51.0
MAR 6		
ADK	EP	06 22 44.1
MAR 6		
FGU	IP	07 21 44.5
	IS	21 56.0
MAR 6		
H-08 11 58.6		
22.9S 177.3W		
h ABOUT 227KM		
TUC	EP	08 24 05.1
	EpP	25 00.4
EUR	IP D	08 24 07.2
	EpP	25 03.2
GCA	EP	08 24 15.2
	EPCP	24 22.0
	EpP	25 10.8
	EpPCP	25 17.3
BMO	EP	08 24 18.1
	EpP	25 13.5
PMR	IP	08 24 18.3
ALQ	EP	08 24 27.0
	EpP	25 22.5
NEW	IP	08 24 28.5
FGU	EP	08 24 31.5
	EpP	25 27.5
COL	IP	08 24 33.7
BOZ	E(P)	08 24 35.3
	EpP	25 32.5
HHM	E(P)	08 24 35.6
BRW	EP D	08 24 56.3
MAR 6		
PMR	IP	08 58 49.0
	IS	59 07.8
MAR 6		
EUR	EP	09 36 18.0
MAR 6		
H-09 45 49.2		
45.8N 148.6E		
h ABOUT 186KM		
BRW	IP C	09 52 35.1
COL	EP	09 52 57.0
HHM	E(P)	09 55 50.1
BOZ	E(P)	09 56 09.5
EUR	EP	09 56 19.8
MAR 6		
EUR	E(P)	09 46 17.0
MAR 6		
BMO	IP	10 05 25.0
NEW	EP	10 06 20.0
	ES	07 13.0
MAR 6		
EUR	E(P)	10 07 00.0
MAR 6		
H-11 28 49.3		
3.8N 95.8E		
h ABOUT 55KM		
EUR	IP'	11 47 52.2
ALQ	EP'	11 48 05.0
MAR 6		
H-11 36 37.7		
52.5N 169.6W		
h ABOUT 10KM		
ADK	EP	11 37 44.4
	ES	38 37.0
COL	EP	11 40 34.0
NEW	EP	11 43 15.0
HHM	E(P)	11 43 30.6
EUR	EP	11 44 04.0
GUA	E(P)	11 45 59.5
MAR 6		
COL	E(P)	11 46 17.0
MAR 6		
ALQ	EP	11 55 36.5
BMO	EP	11 58 03.1
COL	EP	12 02 05.0
MAR 6		
EUR	IP	11 58 15.4
MAR 6		
NEW	EP	12 54 27.0
MAR 6		
BMO	IP	13 45 37.5
MAR 6		
BUT	E(P)	14 34 43.0
MAR 6		
BMO	IP	16 44 16.1
COL	IP	16 45 05.4
MAR 6		
H-17 14 13.4		
11.1S 166.2E		
h ABOUT 52KM		
COL	E(P)	17 26 36.5
MAR 6		
EUR	EP	17 50 19.2
MAR 6		
BMO	EP	18 15 59.0
COL	EP	18 16 20.0
MAR 6		
BUT	EPN	19 05 00.0
BOZ	EPN	19 05 13.7
	EL	05 24.7
MAR 6		
HHM	E(P)	19 05 46.6
	E(L)	06 21.6
MAR 6		
EUR	E(P)	19 15 43.2
MAR 6		
H-19 56 39.6		
45.0N 147.7E		
h ABOUT 133KM		
COL	EP	20 04 01.0
EUR	IP	20 07 21.5
MAR 6		
PMR	IP	20 29 03.3
	IS	29 19.7
MAR 6		
PMR	IP	21 03 21.4
MAR 6		
EUR	EP	21 50 10.5
	E(S)	50 49.5
MAR 6		
EUR	IP	21 57 41.5
MAR 6		
ALQ	E(P)	22 29 25.5
	E	29 34.0
	E(L)	30 14.2
MAR 6		
H-23 30 45.7		
10.9S 166.3E		
h ABOUT 44KM		
EUR	IP	23 43 31.0
TUC	E(P)	23 43 41.0
BOZ	E(P)	23 43 52.3
MAR 6		
H-23 31 25.6		
12.4N 87.1W		
h ABOUT 159KM		

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	23 38 39.0
MAR 7	
ADK IP C	01 13 35.6
EL	13 57.6
COL E(P)	01 14 06.0
EUR IP	01 20 46.5
TUC EP	01 21 46.9
MAR 7	
PMR IP	01 15 27.3
IS	15 44.0
MAR 7	
PMR IP	01 28 30.5
ES	29 01.9
MAR 7	
PMR IP	01 46 52.2
ES	47 11.3
COL EP	01 47 32.0
I	47 39.6
I	47 50.4
MAR 7	
SLD IP	02 41 04.7
IS	41 09.4
MAR 7	
EUR E(P)	02 42 25.0
EL	43 41.9
MAR 7	
TUC E(P)	02 47 21.0
EL	48 36.0
MAR 7	
ALQ E(P)	02 49 09.0
E(L)	50 50.0
MAR 7	
COL EP	03 02 45.0
MAR 7	
H-03 44 05.3	
10.8S 166.2E	
h ABOUT 32KM	
EUR IP	03 56 51.9
TUC E(P)	03 57 03.0
MAR 7	
H-03 51 08.4	
47.8N 122.7W	
h ABOUT 35KM	
NEW EP	03 52 06.0
ES	53 10.0
BMO IPN	03 52 18.7
E	52 27.5
HHM EP	03 52 34.1
EL	54 16.6
BOZ E(P)	03 53 02.3
ES	54 41.5
EL	55 09.5

Date and Station	Phase (GCT)
	h m s
EUR IP	03 53 28.8
SLD EP	03 53 43.5
TUC E(P)	03 55 16.1
COL EP	03 56 00.0
I	56 28.6
MAR 7	
BUT E(P)	03 54 42.4
MAR 7	
BMO IP	04 19 52.2
MAR 7	
H-04 21 09.7	
16.5S 174.6W	
h ABOUT 173KM	
BMO EP	04 33 01.3
ALQ E(P)	04 33 14.5
E	34 10.4
COL IP	04 33 18.7
MAR 7	
BMO EP	04 33 55.5
MAR 7	
H-04 41 18.1	
22.0N 144.1E	
h ABOUT 143KM	
NEW EP	04 53 10.0
BMO IP	04 53 16.1
HHM E(P)	04 53 20.6
EUR EP	04 53 31.2
MAR 7	
EUR EP	06 58 25.0
MAR 7	
PMR IP D	07 09 48.1
MAR 7	
PMR IP	07 15 43.2
MAR 7	
H-07 18 34.1	
7.8N 36.5W	
h ABOUT 33KM	
TUC EP	07 30 01.0
BOZ E(P)	07 30 10.0
HHM E(P)	07 30 19.1
NEW EP	07 30 30.0
BMO EP	07 30 32.6
MAR 7	
H-08 00 33.5	
43.3N 17.4E	
h ABOUT 33KM	
BMO EP	08 12 57.6

Date and Station	Phase (GCT)
	h m s
MAR 7	
H-08 29 13.6	
23.7N 143.9E	
h ABOUT 161KM	
COL EP	08 39 03.0
NEW IP	08 40 58.2
BMO EP	08 41 04.5
SLD EP	08 41 06.1
EUR IP	08 41 20.8
BOZ E(P)	08 41 21.5
MAR 7	
PMR IP D	09 06 11.8
MAR 7	
NEW EP	11 04 58.0
MAR 7	
SLD E(P)	11 14 05.5
ES	14 33.2
EUR E(P)	11 14 26.5
EL	15 06.9
MAR 7	
H-11 39 35.8	
38.4N 142.1E	
h ABOUT 33KM	
BOZ E(P)	11 51 05.7
EUR EP	11 51 13.5
MAR 7	
BRW EP	11 41 54.0
MAR 7	
ADK IP	11 53 49.0
IS	54 01.7
NEW EP	12 00 53.0
MAR 7	
NEW EP	12 27 37.0
MAR 7	
COL EP	13 34 23.0
MAR 7	
SJG EP	13 54 11.2
IS	54 36.0
MAR 7	
H-15 27 25.9	
13.7S 167.6E	
h ABOUT 183KM	
BMO EP	15 40 02.4
E	41 00.0
MAR 7	
H-15 29 20.3	
20.5S 67.4W	
h ABOUT 222KM	
BOZ E(P)	15 39 46.3
E	40 24.5

Date and Station	Phase (GCT)
	h m s
MAR 7	
H-15 30 26.9	
1.6S 78.3W	
h ABOUT 164KM	
ALQ EP	15 38 28.4
E▸P	39 04.6
TUC E(P)	15 38 33.0
MAR 7	
BMO IP	15 44 47.8
MAR 7	
BMO EP	15 56 40.9
MAR 7	
H-16 21 20.7	
4.1N 125.6E	
h ABOUT 170KM	
BRW EP	16 33 24.7
COL EP	16 33 37.5
MAR 7	
EUR EP	16 50 54.9
MAR 7	
BUT E(P)	17 01 05.4
MAR 7	
PMR IP D	17 07 51.7
MAR 7	
SJG EP	17 14 42.0
MAR 7	
NEW EP	17 19 30.0
MAR 7	
BHP IP C	17 27 51.4
IS	27 56.3
MAR 7	
EUR EP	17 22 08.3
MAR 7	
H-17 22 44.9	
10.9S 166.4E	
h ABOUT 50KM	
COL EP	17 35 04.0
EUR IP	17 35 29.0
BMO EP	17 35 31.2
NEW IP	17 35 36.2
TUC EP	17 35 40.0
I▸P	43 54.0
HHM E(P)	17 35 45.6
BOZ EP	17 35 49.8
MAR 7	
H-17 30 56.8	
10.8S 166.5E	
h ABOUT 33KM	
COL EP	17 43 18.0

Date and Station	Phase	(GCT) h m s
EUR	IP	17 43 41.5
BMO	EP	17 43 44.4
TUC	EP	17 43 53.8
BOZ	E(P)	17 44 03.5
MAR 7		
COL	EP	17 55 13.0
EUR	EP	17 57 36.0
BMO	E(P)	17 57 38.0
MAR 7		
BMO	E(P)	18 05 37.6
	E	05 47.6
	E	06 36.4
MAR 7		
H-18 16 52.6		
59.6N 146.2W		
h ABOUT 33KM		
PMR	EP	18 17 32.0
COL	EP	18 18 13.2
	ES	19 40.0
NEW	EP	18 21 32.0
HHM	E(P)	18 21 43.8
BMO	EP	18 21 53.5
MAR 7		
BMO	IP	18 50 00.2
MAR 7		
TUC	(PN)	19 04 11.0
MAR 7		
EUR	IP	20 14 05.2
MAR 7		
COL	EP	20 51 12.0
MAR 7		
HHM	E(P)	21 03 19.6
BMO	EP	21 03 20.6
MAR 7		
GUA	EP	21 15 13.0
MAR 7		
ALQ	E(P)	21 19 12.2
	E(L)	19 53.0
MAR 7		
EUR	IP	21 54 36.5
MAR 7		
ALQ	E(P)	22 28 58.5
MAR 7		
EUR	IP	23 22 23.4
MAR 8		
BHP	IP D	00 22 22.4
	IS	22 47.2
EUR	EP	00 30 14.8
MAR 8		
H-01 31 57.5		
10.8S 166.3E		
h ABOUT 43KM		
COL	EP	01 44 17.0
EUR	IP	01 44 42.2
BMO	IP	01 44 44.9
TUC	E(P)	01 44 53.5
BOZ	E(P)	01 45 00.0
MAR 8		
H-01 48 59.9		
10.7S 166.4E		
h ABOUT 16KM		
COL	EP	02 01 23.0
EUR	IP	02 01 48.0
	E	03 08.5
	I	06 55.6
BMO	EP	02 01 49.4
	E	03 10.7
TUC	E(P)	02 01 59.5
BOZ	E(P)	02 02 08.5
MAR 8		
BMO	E(P)	01 54 46.3
MAR 8		
COL	EP	02 02 45.0
BMO	EP	02 06 58.1
TUC	E(P)	02 07 07.3
MAR 8		
COL	EP	02 06 32.0
MAR 8		
COL	EP	02 23 59.0
EUR	IP	02 24 23.0
BMO	EP	02 24 24.9
TUC	E(P)	02 24 34.0
MAR 8		
H-02 48 50.5		
10.8S 166.3E		
h ABOUT 33KM		
COL	EP	03 01 13.0
EUR	IP	03 01 36.5
BMO	EP	03 01 39.0
TUC	E(P)	03 01 47.8
MAR 8		
BOZ	E(P)	03 15 48.5
COL	EP	03 15 49.0
MAR 8		
H-04 03 30.7		
10.7S 166.5E		
h ABOUT 33KM		
COL	EP	04 15 51.0
EUR	IP	04 16 16.2
BMO	EP	04 16 18.6
NEW	EP	04 16 23.0
TUC	EP	04 16 27.5
HHM	E(P)	04 16 32.7
BOZ	E(P)	04 16 37.0
MAR 8		
COL	EP	04 48 24.0
MAR 8		
PMR	EP	04 57 26.1
MAR 8		
H-05 13 34.4		
24.5N 142.7E		
h ABOUT 33KM		
COL	EP	05 23 35.0
NEW	EP	05 25 34.0
BMO	EP	05 25 41.4
HHM	E(P)	05 25 44.0
BOZ	E(P)	05 25 57.8
EUR	EP	05 25 57.9
ALQ	EP	05 26 42.0
MAR 8		
BMO	E(P)	05 15 29.2
MAR 8		
BMO	EP	07 00 01.1
MAR 8		
BMO	EP	07 07 03.8
MAR 8		
COL	IP	08 03 18.5
MAR 8		
H-08 13 06.9		
10.8S 166.4E		
h ABOUT 33KM		
COL	EP	08 25 29.0
EUR	IP	08 25 52.2
MAR 8		
COL	EP	08 22 58.0
MAR 8		
NEW	EP	08 36 23.0
MAR 8		
HHM	E(P)	09 45 04.7
MAR 8		
SLD	E(P)	10 07 02.5
	IS	07 15.1
MAR 8		
H-10 16 25.9		
65.6N 152.2W		
h ABOUT 6KM		
COL	IP	10 16 58.4
	I	17 02.5
	IS	17 25.0
PMR	IP C	10 17 32.3
	ES	18 39.0
BRW	EP	10 17 56.0
	EL	19 05.0
MAR 8		
COL	EP	10 21 54.0
MAR 8		
COL	EP	11 08 02.0
MAR 8		
H-11 11 42.9		
21.1S 70.3W		
h ABOUT 45KM		
EUR	EP	11 23 14.6
BMO	EP	11 23 40.7
	E	23 46.1
MAR 8		
BHP	IP C	11 33 05.3
	IS	22 30.4
MAR 8		
H-12 33 25.8		
10.8S 166.4E		
h ABOUT 34KM		
COL	EP	12 45 48.0
EUR	EP	12 46 11.3
	E	47 01.5
BMO	EP	12 46 13.2
TUC	E(P)	12 46 22.3
MAR 8		
COL	EP	12 46 37.0
MAR 8		
BHP	IP	12 57 37.6
	IS	58 03.1
MAR 8		
H-16 29 43.1		
45.3N 152.8E		
h ABOUT 33KM		
BMO	E(P)	16 40 01.0
MAR 8		
SLD	E(P)	19 28 13.7
	ES	28 26.6
MAR 8		
PMR	IP	19 40 25.6
	IS	40 54.9

Date and Station	Phase (GCT)
	h m s
COL E(P)	19 41 04.5
ES	42 05.9
MAR 8	
H-20 51 06.4	
62.0N 150.8W	
h ABOUT 33KM	
PMR IP	20 51 22.7
COL IP	20 51 56.2
MAR 8	
H-21 03 35.2	
22.2S 67.5W	
h ABOUT 187KM	
ALQ EP	21 14 15.0
TUC EP	21 14 17.7
EUR EP	21 15 05.0
BMO EP	21 15 29.5
HHM E(P)	21 15 33.7
MAR 8	
COL EP	21 59 33.0
BMO E(P)	21 59 59.5
MAR 8	
H-22 13 56.9	
15.6S 167.6E	
h ABOUT 131KM	
COL EP	22 26 27.0
EUR EP	22 26 41.4
E	27 32.8
BMO EP	22 26 45.9
MAR 8	
H-22 24 18.3	
10.9S 166.2E	
h ABOUT 65KM	
COL EP	22 36 36.0
BMO EP	22 37 03.2
EUR E(P)	22 38 00.6
MAR 8	
ALQ EP	22 31 11.2
MAR 8	
BMO EP	22 44 07.6
MAR 8	
H-22 52 13.7	
12.3S 166.4E	
h ABOUT 59KM	
COL EP	23 04 39.0
MAR 8	
H-23 07 02.8	
15.1N 88.8W	
h ABOUT 76KM	
ALQ E(P)	23 12 28.4
BMO E(P)	23 14 15.4
MAR 8	
H-23 07 07.0	
17.5S 176.9W	
h ABOUT 100KM	
BMO EP	23 19 18.6
ALQ E(P)	23 19 31.0
COL EP	23 19 33.0
MAR 9	
H-00 41 55.6	
6.8N 73.0W	
h ABOUT 163KM	
TUC E(P)	00 49 44.0
MAR 9	
FGU E(P)	01 25 25.2
I	25 29.2
ILG	25 55.2
EUR EP	01 25 52.9
ALQ E(P)	01 26 20.5
E(L)	27 57.0
MAR 9	
BHP IP D	02 32 45.8
IS	33 11.5
MAR 9	
H-03 24 18.6	
10.7S 166.3E	
h ABOUT 28KM	
SLD EP	03 36 37.4
COL EP	03 36 40.2
EUR EP C	03 37 04.0
E(PP)	40 36.5
BMO EP	03 37 08.0
EpP	37 17.2
BCN E(P)	03 37 09.5
TUC EP	03 37 16.0
EpP	37 26.5
GCA EP	03 37 18.6
SLC EP	03 37 21.3
EpP	37 30.1
HHM E(P)	03 37 22.4
BUT EP	03 37 25.3
EpP	37 34.0
BOZ EP	03 37 26.3
FGU EP	03 37 28.8
EpP	37 36.3
EsP	37 39.7
ALQ EP	03 37 35.2
MAR 9	
H-03 38 10.2	
10.7S 166.6E	
h ABOUT 33KM	
EUR EP	03 50 54.7
BMO E(P)	03 50 57.2
TUC E(P)	03 51 06.5
BOZ EP	03 51 17.6
MAR 9	
H-04 53 46.2	
48.1S 13.2W	
h ABOUT 32KM	
EUR EP'	05 12 45.5
BMO EP'	05 12 45.8
E	12 53.7
HHM EP'	05 12 52.0
E	13 23.4
COL EP'	05 13 27.0
I	13 34.6
I	14 05.2
MAR 9	
BMO EP	05 01 05.8
PMR IP D	05 01 29.4
MAR 9	
BOZ EP	05 08 06.5
BMO EP	05 08 12.6
COL EP	05 08 53.0
MAR 9	
ALQ E(P)	05 21 42.5
COL EP	05 23 45.0
MAR 9	
H-05 38 16.2	
10.7S 166.2E	
h ABOUT 42KM	
COL EP	05 50 36.9
SLD E(P)	05 50 38.6
EUR IP D	05 51 01.0
BCN E(P)	05 51 01.9
BMO EP	05 51 03.7
TUC EP	05 51 14.0
BOZ EP	05 51 23.2
MAR 9	
H-05 52 22.0	
10.9S 166.4E	
h ABOUT 58KM	
COL IP	06 04 40.0
SLD EP	06 04 42.6
EUR EP C	06 05 03.2
I	07 39.2
BCN EP	06 05 05.9
BMO EP	06 05 07.7
NEW EP	06 05 12.0
TUC EP	06 05 17.0
GCA EP	06 05 19.2
SLC EP	06 05 21.5
E	05 31.7
HHM EP	06 05 22.6
BUT EP	06 05 23.5
BOZ EP	06 05 26.7
E	05 45.5
FGU EP	06 05 28.3
EsP	05 52.3
ALQ EP	06 05 35.0
E	08 08.4
MAR 9	
COL EP	06 07 13.0
BMO EP	06 07 40.5
TUC EP	06 07 51.6
HHM E(P)	06 07 54.0
BOZ E(P)	06 08 00.0
FGU EP	06 08 03.8
E	08 27.9
MAR 9	
EUR E(P)	06 17 56.5
MAR 9	
H-06 23 01.1	
10.9S 166.6E	
h ABOUT 33KM	
COL IP	06 35 22.0
EUR EP	06 35 46.4
BMO E(P)	06 35 49.2
MAR 9	
PMR IP	06 40 31.5
ES	40 40.6
COL EP	06 41 06.8
ES	41 29.6
MAR 9	
NEW EP	06 55 17.0
MAR 9	
H-06 58 36.5	
10.6S 166.2E	
h ABOUT 34KM	
GUA E(P)	07 05 09.0
ES	09 50.0

Date and Station	Phase	(GCT)
		h m s
HON	EP	07 07 13.0
	ES	14 16.0
	EL	19 30.0
COL	IP	07 10 57.0
	ES	22 12.0
UKI	E(P)	07 10 57.0
SLD	IP C	07 10 59.5
EUR	IP D	07 11 21.2
	IPP	14 43.2
BCN	EP	07 11 21.9
BMO	IP	07 11 24.4
NEW	EP	07 11 28.0
TUC	EP	07 11 33.8
	ESKS	22 00.0
GCA	EP	07 11 34.8
SLC	EP	07 11 38.2
	E	11 46.2
	E	11 53.2
HHM	EP	07 11 39.4
BUT	EP	07 11 41.0
BOZ	IP C	07 11 43.0
FGU	IP	07 11 46.3
ALQ	EP	07 11 51.0
	FS	23 08.0
SJG	EP'	07 17 40.5
	EPP	19 50.0
	ESKS	21 06.0
	F	37 22.0
MAR 9		
BHP	EP	07 18 07.0
	ES	28 05.0
MAR 9		
BMO	EP	07 27 01.2
EUR	EP	07 27 58.5
MAR 9		
PMR	IP	07 41 45.7
	IS	42 05.8
COL	IP	07 41 58.6
	E	42 27.0
MAR 9		
H-07 50 58.5		
10.8S 166.3E		
h ABOUT 44KM		
COL	IP	08 03 18.5
EUR	IP D	08 03 43.0
BCN	EP	08 03 43.9
BMO	EP	08 03 45.6
TUC	EP	08 03 56.0
BOZ	EP	08 04 04.5
MAR 9		
H-08 10 37.9		
11.0S 166.4E		
h ABOUT 61KM		
COL	EP	08 22 58.0
EUR	EP	08 23 20.6
BMO	EP	08 23 23.4
TUC	EP	08 23 33.0
MAR 9		
H-08 16 40.7		
10.8S 166.3E		
h ABOUT 44KM		
COL	IP	08 29 00.6
EUR	IP D	08 29 25.0
BCN	EP	08 29 25.4
BMO	I(P)	08 29 28.0
TUC	EP	08 29 37.5
SLC	EP	08 29 41.3
BOZ	EP	08 29 47.5
MAR 9		
H-09 04 36.4		
10.7S 166.3E		
h ABOUT 33KM		
COL	EP	09 16 58.0
EUR	EP	09 17 21.5
TUC	E(P)	09 17 34.0
BOZ	E(P)	09 17 42.5
MAR 9		
COL	EP	10 18 26.0
MAR 9		
COL	E(P)	10 39 39.5
MAR 9		
H-11 43 13.4		
23.8S 66.4W		
h ABOUT 206KM		
ALQ	EP D	11 54 03.2
	EPP	54 56.4
	E	59 15.0
TUC	EP	11 54 06.1
BCN	EP	11 54 34.9
EUR	IP D	11 54 51.3
BOZ	E(P)	11 55 02.5
BMO	EP	11 55 15.1
NEW	EP	11 55 25.0
MAR 9		
BHP	IP	11 47 01.0
	IS	48 00.7
MAR 9		
H-11 50 29.7		
17.1S 73.3W		
h ABOUT 33KM		
BOZ	E(P)	12 01 55.0
MAR 9		
H-12 55 08.6		
10.6S 166.4E		
h ABOUT 33KM		
COL	EP	13 07 30.0
EUR	EP	13 07 53.7
BMO	EP	13 07 56.3
BOZ	EP	13 08 15.0
MAR 9		
BHP	IP D	13 06 50.7
	IS	07 32.9
MAR 9		
H-13 38 56.8		
29.6N 141.1E		
h ABOUT 33KM		
COL	EP	13 48 31.5
BMO	EP	13 50 49.5
	E	51 07.9
MAR 9		
H-14 08 44.8		
14.5N 91.5W		
h ABOUT 102KM		
ALQ	EP C	14 13 55.5
TUC	EP	14 14 01.8
BCN	EP	14 14 45.5
	E	15 00.0
	E	15 20.0
EUR	IP C	14 15 11.7
SLD	EP	14 15 26.6
BOZ	E(P)	14 15 31.4
BMO	IP	14 15 48.6
NEW	IP	14 16 08.5
	EPCP	18 13.0
COL	IP	14 19 01.6
	I	19 39.3
MAR 9		
BMO	IP	14 18 06.9
	E	18 23.2
MAR 9		
GCA	EP	15 12 22.6
	IS	12 48.2
MAR 9		
EUR	E(P)	17 34 11.5
	EL	34 58.5
MAR 9		
BRW	EP	17 41 23.8
MAR 9		
H-17 58 24.4		
15.5S 175.2W		
h ABOUT 16KM		
TUC	E(P)	18 10 21.9
BCN	E(P)	18 10 23.7
EUR	E(P)	18 10 29.2
BMO	EP	18 10 33.0
	E	12 28.0
GCA	EP	18 10 35.0
ALQ	E(P)	18 10 46.5
	E	16 00.0
COL	IP	18 10 48.3
	I	12 46.6
FGU	EP	18 10 49.2
BOZ	E(P)	18 10 52.7
	EPCP	10 57.5
MAR 9		
COL	EP	18 02 25.0
MAR 9		
H-18 02 41.9		
10.7S 166.4E		
h ABOUT 24KM		
HON	EP	18 11 19.0
COL	EP	18 15 03.0
BCN	EP	18 15 28.5
EUR	IP D	18 15 28.7
	EPP	18 54.5
BRW	E(P)	18 15 29.3
BMO	EP	18 15 30.9
NEW	IP	18 15 36.8
TUC	EP	18 15 40.0
	ES	26 22.0
GCA	EP	18 15 42.2
HHM	EP	18 15 45.4
BOZ	IP	18 15 49.5
FGU	EP	18 15 52.9
ALQ	EP	18 16 02.0
	EPP	16 12.0
MAR 9		
FGU	EP	18 12 37.8

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	18 12 44.5
MAR 9	
GUA EP	18 14 33.0
FS	17 06.0
MAR 9	
H-18 27 09.5	
15.6S 175.4W	
h ABOUT 37KM	
BCN E(P)	18 39 05.0
TUC E(P)	18 39 05.0
EUR EP	18 39 06.6
BMO EP	18 39 20.6
COL E(P)	18 39 30.3
ALQ E(P)	18 39 32.0
BOZ E(P)	18 39 33.7
F	39 40.0
FGU EP	18 39 34.5
MAR 9	
H-18 32 49.1	
19.2N 65.2W	
h ABOUT 73KM	
SJG IP D	18 33 13.2
I(S)	33 32.0
ISCS	46 36.0
IsSCS	47 11.5
EUR IP	18 41 23.6
BMO EP	18 41 37.8
NEW IP	18 41 43.1
MAR 9	
COL FP	18 39 10.0
MAR 9	
NEW EP	18 51 56.0
MAR 9	
NEW EP	19 01 11.0
MAR 9	
BOZ FPN	19 12 15.5
FL	12 24.5
MAR 9	
FGU E(P)	19 39 29.6
COL EP	19 39 30.0
MAR 9	
ADK IP	19 44 24.2
IS	44 39.8
MAR 9	
H-19 56 59.4	
17.6S 69.7W	
h ABOUT 157KM	
ALQ EP	20 07 11.2
E	07 48.0

Date and Station	Phase (GCT)
	h m s
FGU EP	20 07 49.4
EUR EP	20 08 03.9
BMO IP	20 08 30.5
E	09 08.3
COL E(P)	20 11 29.0
MAR 9	
EUR IP	19 57 40.9
MAR 9	
H-20 02 48.3	
56.6N 35.6W	
h ABOUT 33KM	
BOZ EP	20 11 15.3
FGU EP	20 11 30.9
BMO E(P)	20 11 40.4
E	13 45.3
EUR IP	20 12 05.9
MAR 9	
BOZ EP	20 07 53.5
E	08 11.7
MAR 9	
BOZ E(P)	20 09 36.5
FGU EP	20 09 52.2
MAR 9	
H-20 10 36.0	
55.5N 33.3W	
h ABOUT 33KM	
BOZ EP	20 19 14.3
COL EP	20 19 27.8
FGU EP	20 19 31.8
BMO E(P)	20 19 39.7
EUR E(P)	20 20 04.0
MAR 9	
H-20 12 33.9	
19.1S 69.6W	
0 ABOUT 115KM	
BMO EP	20 24 16.7
E	24 45.5
MAR 9	
BOZ E(P)	20 13 12.7
E	13 19.5
FGU EP	20 13 31.0
MAR 9	
FGU EP	20 15 49.7
BOZ E(P)	20 16 57.8
BMO EP	20 17 24.1
MAR 9	
FGU E(P)	20 16 31.3

Date and Station	Phase (GCT)
	h m s
MAR 9	
FGU EP	20 17 14.5
MAR 9	
H-20 23 03.7	
56.5N 35.1W	
h ABOUT 33KM	
BOZ EP	20 31 32.5
COL EP	20 31 46.7
FGU EP	20 31 48.0
BMO E(P)	20 31 58.4
ALQ E(P)	20 32 09.8
MAR 9	
BOZ EP	20 25 31.0
FGU EP	20 25 48.1
BMO E(P)	20 25 57.8
MAR 9	
FGU E(P)	20 31 05.8
MAR 9	
H-20 34 48.1	
56.2N 34.6W	
h ABOUT 33KM	
BOZ EP	20 43 18.5
NEW EP	20 43 27.0
COL EP	20 43 32.8
FGU EP	20 43 36.1
BMO I(P)	20 43 44.9
E	47 32.8
ALQ EP	20 43 56.0
EUR EP	20 44 12.0
TUC E(P)	20 44 26.5
MAR 9	
FGU E(P)	20 36 09.7
MAR 9	
H-20 38 34.4	
56.2N 34.1W	
h ABOUT 33KM	
BOZ EP	20 47 07.5
COL EP	20 47 19.0
FGU EP	20 47 23.8
ALQ EP	20 47 45.0
EUR IP	20 47 58.9
MAR 9	
FGU EP	20 40 52.0

Date and Station	Phase (GCT)
	h m s
MAR 9	
H-20 54 57.8	
6.6S 129.7E	
h ABOUT 163KM	
BOZ EP'	21 13 33.5
FGU EP'	21 13 54.0
MAR 9	
BOZ E(P)	20 55 57.5
FGU E(P)	20 56 17.0
MAR 9	
ADK IP	20 57 06.3
IS	57 58.9
MAR 9	
BHP EP	21 03 43.2
ES	04 24.4
MAR 9	
H-20 59 44.8	
56.2N 34.8W	
h ABOUT 33KM	
BOZ E(P)	21 08 15.0
COL EP	21 08 28.9
FGU EP	21 08 33.6
BMO EP	21 08 41.7
EPCP	09 56.0
MAR 9	
BMO E(P)	21 02 59.0
BOZ E(P)	21 03 11.5
MAR 9	
H-21 06 36.1	
30.4N 139.4E	
h ABOUT 253KM	
COL EP	21 15 48.0
BMO EP	21 18 07.8
BOZ E(P)	21 18 22.3
FGU EP	21 18 42.8
MAR 9	
BOZ EP	21 09 27.0
FGU E(P)	21 09 40.0
E	09 42.8
MAR 9	
BMO E(P)	21 14 00.4
MAR 9	
FGU EP	21 15 51.7
MAR 9	
H-21 22 49.1	
56.1N 34.5W	
h ABOUT 33KM	
BOZ E(P)	21 31 22.0

Date and Station	Phase	(GCT) h m s
NEW	EP	21 31 30.0
	E	33 30.0
COL	EP	21 31 35.0
FGU	EP	21 31 37.5
BMO	E(P)	21 31 46.4
	E	33 49.2
ALQ	EP	21 32 00.2
	EPP	34 05.0
TUC	E(P)	21 32 30.0
MAR 9		
H-21 24 54.9		
56.2N 35.1W		
h ABOUT 33KM		
BOZ	EP	21 33 24.3
COL	IP	21 33 38.4
FGU	EP	21 33 39.6
MAR 9		
GCA	E(P)	21 34 24.5
	ES	34 43.5
MAR 9		
ADK	IP	21 26 01.2
	ES	26 33.8
MAR 9		
FGU	E(P)	21 26 42.5
MAR 9		
H-21 25 21.2		
21.7S 175.9W		
ABOUT 158KM		
TUC	EP	21 37 27.5
	EPP	38 05.8
GCA	EP	21 37 37.5
	EPP	38 17.0
BMO	EP	21 37 40.5
	EPP	38 18.8
PMR	EP	21 37 42.5
ALQ	EP	21 37 49.2
	EPP	38 28.5
NEW	EP	21 37 50.0
FGU	E(P)	21 37 50.5
BOZ	EP	21 37 58.0
COL	IP D	21 37 58.0
	EPP	38 37.9
FGU	EP	21 38 33.2
MAR 9		
FGU	EP	22 03 27.5
MAR 9		
BOZ	EP	22 06 39.5
FGU	EP	22 06 55.3

Date and Station	Phase	(GCT) h m s
BMO	EP	22 07 05.3
MAR 9		
H-22 18 04.9		
56.4N 35.4W		
h ABOUT 33KM		
BOZ	EP	22 26 32.3
FGU	EP	22 26 50.2
EUR	EP	22 27 24.0
MAR 9		
COL	IP	22 37 57.8
	E	38 38.0
MAR 9		
PMR	IP D	22 56 27.9
MAR 9		
H-23 15 42.7		
56.0N 34.8W		
h ABOUT 33KM		
BOZ	EP	23 24 14.2
FGU	EP	23 24 29.8
BMO	EP	23 24 39.7
MAR 9		
BMO	EP	23 54 17.2
MAR 9		
EUR	EP	23 56 28.5
MAR 10		
TUC	E(P)	00 29 31.2
BMO	EP	00 29 38.2
MAR 10		
H-00 31 18.4		
28.7N 138.7E		
h ABOUT 506KM		
PMR	IP	00 40 13.7
	IPCP	41 03.4
COL	EP	00 40 18.6
NEW	IP	00 42 24.2
BMO	IP	00 42 33.0
HHM	EP	00 42 33.7
SLD	IP C	00 42 39.4
BOZ	IP C	00 42 48.3
EUR	IP	00 42 51.5
FGU	EP	00 43 08.1
TUC	IP C	00 43 27.5
	EPP	47 09.5
ALQ	EP C	00 43 33.8
MAR 10		
BMO	E(P)	00 35 14.3

Date and Station	Phase	(GCT) h m s
MAR 10		
H-01 43 55.5		
56.1N 34.6W		
h ABOUT 33KM		
BOZ	EP	01 52 27.5
NEW	EP	01 52 34.0
FGU	EP	01 52 42.1
BMO	E(P)	01 52 51.2
EUR	EP	01 53 18.5
MAR 10		
BOZ	E(P)	01 48 50.5
MAR 10		
H-01 54 17.8		
32.4N 137.7E		
h ABOUT 385KM		
COL	EP	02 03 10.0
NEW	IP	02 05 22.9
BOZ	EP	02 05 49.0
EUR	IP	02 05 54.8
FGU	E(P)	02 06 07.8
	EPCP	06 10.5
MAR 10		
H-02 20 35.4		
42.0N 110.2W		
h ABOUT 33KM		
FGU	EPN	02 20 57.8
	I	20 59.5
	IS	21 16.3
SLC	EP	02 21 04.5
	EL	21 27.1
BOZ	EPN	02 21 33.2
	I	21 41.5
EUR	EP	02 21 49.7
	I	21 56.2
	IL	23 08.6
BMO	EPN	02 22 02.3
GCA	E(P)	02 22 03.8
	ILG	23 24.0
ALQ	E(P)	02 22 31.5
	EL	24 42.0
MAR 10		
TUC	E(P)	02 23 32.9
	E	25 41.4
NEW	EP	02 24 17.0
MAR 10		
BOZ	E(P)	03 37 50.5
BMO	EP	03 38 16.2

Date and Station	Phase	(GCT) h m s
MAR 10		
ADK	IP	04 00 49.6
	IS	01 02.8
MAR 10		
BOZ	E(P)	04 04 52.0
BMO	E(P)	04 05 22.2
MAR 10		
H-04 37 17.8		
56.1N 34.5W		
h ABOUT 33KM		
BOZ	EP	04 45 48.0
FGU	EP	04 46 07.2
BMO	E(P)	04 46 17.8
MAR 10		
H-04 54 54.8		
56.1N 34.9W		
h ABOUT 33KM		
BOZ	EP	05 03 25.7
NEW	EP	05 03 33.0
FGU	EP	05 03 41.1
EUR	EP C	05 04 19.3
MAR 10		
H-05 34 59.8		
40.8N 111.9W		
h ABOUT 5KM		
SLC	I(P)	05 35 00.8
FGU	EP	05 35 33.8
	I	35 35.2
	ILG	36 00.2
EUR	EP	05 35 56.1
	EL	36 41.4
MAR 10		
SLD	IP	06 28 54.7
	IS	28 59.3
EUR	EP	06 29 41.8
	EL	31 25.0
MAR 10		
H-06 33 53.2		
23.0S 179.7W		
h ABOUT 550KM		
TUC	EP	06 45 37.0
BMO	IP	06 45 47.2
ALQ	EP	06 45 56.8
COL	EP	06 45 58.7
FGU	EP	06 46 00.7
BOZ	E(P)	06 46 04.0
MAR 10		
FGU	E(P)	06 37 53.6

Date and Station	Phase (GCT)
	h m s
MAR 10	
FGU E(P)	07 06 42.2
MAR 10	
ADK EP	07 20 16.0
ES	21 13.7
MAR 10	
H-07 21 51.5	
56.3N 34.7W	
h ABOUT 33KM	
BOZ E(P)	07 30 22.3
BMO EP	07 30 49.0
MAR 10	
BOZ E(P)	07 43 50.5
BMO E(P)	07 44 16.9
MAR 10	
BOZ E(P)	08 36 33.5
E	36 38.0
BMO E(P)	08 37 01.3
MAR 10	
H-09 02 27.3	
44.6N 148.6E	
h ABOUT 66KM	
BOZ EP	09 13 06.0
MAR 10	
PMR IP	09 27 26.7
ES	27 43.5
MAR 10	
H-10 02 47.8	
10.6S 166.3E	
h ABOUT 33KM	
COL E(P)	10 15 08.0
EUR IP	10 15 32.8
TUC EP	10 15 46.0
BOZ EP	10 15 54.0
MAR 10	
H-10 13 22.9	
17.5S 178.9W	
h ABOUT 527KM	
EUR IP	10 24 46.8
TUC EP	10 24 49.6
BMO IP	10 24 56.0
COL EP	10 25 04.9
ALQ EP	10 25 09.1
FGU EP	10 25 11.3
BOZ E(P)	10 25 15.0
MAR 10	
BOZ EPN	10 23 26.5
EL	23 36.5

Date and Station	Phase (GCT)
	h m s
MAR 10	
H-11 14 38.0	
56.1N 34.7W	
h ABOUT 33KM	
BOZ EP	11 23 10.3
NEW EP	11 23 18.0
COL EP	11 23 24.0
FGU EP	11 23 25.8
BMO E(P)	11 23 35.0
EUR EP	11 23 59.1
MAR 10	
BOZ E(P)	12 10 55.7
BMO E(P)	12 11 21.5
MAR 10	
ALQ E(P)	12 14 23.1
MAR 10	
H-12 45 32.5	
38.8N 124.2W	
h ABOUT 10KM	
UKI EP	12 45 49.1
EL	46 01.0
SLD EP	12 46 20.3
MAR 10	
H-13 05 17.9	
30.3N 114.5W	
h ABOUT 33KM	
TUC EPN	13 06 14.9
EL	07 15.0
BCN E(P)	13 06 54.5
EL	08 42.5
ALQ E(P)	13 07 10.0
E	10 02.0
EUR I(P)	13 07 40.5
BMO E(P)	13 08 53.1
BOZ E(P)	13 09 04.5
MAR 10	
FGU E(P)	13 11 29.4
MAR 10	
H-13 12 15.7	
10.8S 166.4E	
h ABOUT 34KM	
COL EP	13 24 37.0
E	25 47.0
EUR IP	13 25 01.2
BMO EP	13 25 02.8
BOZ E(P)	13 25 23.0
FGU EP	13 25 25.9

Date and Station	Phase (GCT)
	h m s
MAR 10	
BOZ EP	13 26 32.5
MAR 10	
COL EP	13 30 27.0
MAR 10	
PMR IP	13 30 51.2
ES	31 09.2
MAR 10	
H-14 16 27.1	
34.5N 137.6E	
h ABOUT 313KM	
COL EP	14 25 14.0
BMO EP	14 27 42.2
BOZ E(P)	14 27 56.7
MAR 10	
H-14 49 32.7	
56.8N 36.1W	
h ABOUT 33KM	
BOZ E(P)	14 57 55.7
EpP	58 06.5
FGU EP	14 58 16.4
BMO E(P)	14 58 23.0
MAR 10	
NEW EP	16 33 03.0
ES	34 01.0
MAR 10	
BHP IP C	16 34 24.4
IS	34 27.5
MAR 10	
ADK EP	17 20 16.0
E(S)	21 13.7
MAR 10	
COL IP	17 30 23.3
BMO EP	17 31 04.6
E	31 28.6
BOZ E(P)	17 31 24.7
MAR 10	
COL EP	17 31 23.6
MAR 10	
BMO E(P)	17 37 25.6
MAR 10	
ALQ E(P)	17 46 15.6
E	46 18.0
E(L)	46 49.0
MAR 10	
SLD EP	19 51 36.0
ES	51 47.7
MAR 10	
ALQ E(P)	20 11 52.0
E	13 54.0

Date and Station	Phase (GCT)
	h m s
MAR 10	
PMR EP	20 35 16.4
IS	35 38.7
MAR 10	
H-20 46 33.1	
56.0N 34.6W	
h ABOUT 26KM	
HHM E(P)	20 55 01.5
BOZ EP	20 55 06.1
E	55 10.5
NEW IP	20 55 13.5
COL EP	20 55 20.0
BMO EP	20 55 31.1
E	55 49.0
MAR 10	
ALQ E(P)	20 59 01.0
E	59 06.5
E(L)	59 45.6
MAR 10	
COL EP	21 05 52.0
MAR 10	
BOZ EPN	21 30 21.7
IL	30 27.5
MAR 10	
COL EP	21 50 46.0
MAR 10	
H-21 57 37.5	
41.2N 142.2E	
h ABOUT 52KM	
COL EP	22 05 52.0
EpP	06 07.3
BOZ EP	22 08 53.0
EPCP	09 11.4
MAR 10	
COL E(P)	21 58 46.5
MAR 10	
EUR E(P)	22 00 34.7
EL	01 26.0
MAR 10	
BMO EP	22 08 55.0
MAR 10	
BUT EP	22 10 18.2
MAR 10	
BOZ E(P)	22 16 09.0
MAR 10	
COL EP	22 22 44.0
MAR 10	
EUR IP	22 36 45.0
MAR 10	
ALQ E(P)	22 59 21.6
E(L)	59 38.5

Date and Station	Phase	(GCT) h m s
MAR 10		
BMO	EP	23 53 12.4
	E	54 28.0
MAR 10		
NEW	IP	23 57 16.8
MAR 11		
PMR	IP	00 10 35.1
	IS	11 00.6
COL	EP	00 11 16.0
MAR 11		
H-00 14 44.2		
55.8N 34.7W		
h ABOUT 33KM		
BOZ	EP	00 23 17.0
	E	23 21.3
BMO	EP	00 23 41.4
MAR 11		
FUR	IP	00 18 31.7
MAR 11		
PMR	IP	02 05 38.6
MAR 11		
H-03 05 25.4		
55.8N 34.8W		
h ABOUT 33KM		
BOZ	EP	03 13 57.5
	E	13 02.3
NEW	EP	03 14 05.0
COL	EP	03 14 10.0
BMO	EP	03 14 22.7
EUR	IP	03 14 51.8
MAR 11		
TUC	EP	03 06 27.7
MAR 11		
PMR	IP	04 05 16.8
	ES	05 30.9
MAR 11		
H-06 31 08.3		
36.4N 70.8E		
h ABOUT 215KM		
BRW	EP C	06 41 42.1
	EPP	42 33.2
COL	IP C	06 42 25.3
	IPP	43 16.1
NEW	EP	06 44 09.0
	EPP	45 06.0
MAR 11		
H-08 33 27.1		
10.8S 166.3E		
h ABOUT 49KM		
GUA	E(P)	08 39 46.0
	ES	44 25.0
HON	IP	08 41 57.0
	IS	48 55.0
KIP	IP D	08 41 58.6
PMR	IP	08 45 32.6
COL	EP	08 45 47.1
	ES	56 08.0
SLD	IP	08 45 49.1
BRW	IP D	08 46 01.7
EUR	IP	08 46 10.9
BCN	EP	08 46 12.9
	E	46 39.9
BMO	EP	08 46 14.0
	EPKKP	09 03 50.0
NEW	IP	08 46 19.4
HHM	EP	08 46 23.4
TUC	EP	08 46 23.5
	E	57 04.0
GCA	IP D	08 46 25.6
SLC	IP	08 46 27.7
	E	46 45.0
BOZ	IP D	08 46 33.2
FGU	IP D	08 46 36.8
	EPP	50 09.3
BUT	E(P)	08 46 38.0
ALQ	EP D	08 46 40.0
	E	57 58.0
SJG	IP'	08 52 30.9
	E	55 50.0
MAR 11		
BOZ	E(P)	12 16 53.5
BMO	E(P)	12 17 21.3
MAR 11		
H-12 22 45.4		
63.4N 17.7W		
h ABOUT 39KM		
COL	EP	12 31 14.0
BMO	EP	12 32 14.0
MAR 11		
NEW	EP	13 03 58.0
	ES	04 32.0
MAR 11		
H-14 45 00.9		
19.1N 95.8W		
h ABOUT 47KM		
BHP	IP C	14 49 16.9
	ES	55 15.3
MAR 11		
SLD	EP	15 54 34.7
	IS	55 02.4
EUR	IP	15 54 46.5
MAR 11		
NEW	EP	16 29 13.0
COL	EP	16 32 32.1
MAR 11		
H-16 39 57.2		
14.6N 91.5W		
h ABOUT 27KM		
BMO	EP	16 47 08.4
MAR 11		
COL	E(P)	16 44 30.5
MAR 11		
H-16 56 50.2		
28.4N 94.4E		
h ABOUT 12KM		
BRW	EP	17 07 58.5
COL	IP C	17 08 34.7
PMR	IP	17 08 42.8
BMO	EP	17 10 44.5
MAR 11		
COL	EP	16 59 30.0
BUT	E(P)	17 01 58.7
BOZ	E(P)	17 02 12.5
MAR 11		
TUC	E(P)	18 06 08.2
BMO	EP	18 06 16.7
BUT	EP	18 06 23.0
COL	EP	18 06 28.0
ALQ	EP	18 06 32.9
BOZ	EP	18 06 36.5
MAR 11		
H-18 15 16.9		
56.0N 34.5W		
h ABOUT 33KM		
BOZ	EP	18 23 49.5
NEW	IP	18 23 57.1
COL	E(P)	18 24 03.6
BMO	EP	18 24 14.5
MAR 11		
H-18 45 44.5		
29.3N 81.4E		
h ABOUT 33KM		
COL	EP	18 57 46.0
MAR 11		
COL	IP	19 05 48.9
MAR 11		
NEW	EP	20 25 16.0
MAR 11		
ALQ	E(P)	20 26 09.5
	E(L)	26 49.0
MAR 11		
ALQ	EP	20 54 09.1
MAR 11		
COL	EP	21 14 03.0
MAR 11		
BUT	EP	21 34 16.5
BOZ	EPN	21 34 29.3
	E	34 31.4
	EL	34 39.5
MAR 11		
COL	EP	22 02 46.0
MAR 11		
GUA	EP	22 28 16.5
MAR 11		
ALQ	E(P)	22 43 23.2
	E(L)	43 48.0
MAR 11		
H-22 55 22.7		
36.0N 69.4E		
h ABOUT 124KM		
COL	IP	23 06 54.0
MAR 11		
TUC	(PN)	23 07 22.0
MAR 11		
EUR	IP	23 28 38.8
MAR 11		
COL	EP	23 35 43.0
MAR 12		
COL	IP	00 02 04.5
MAR 12		
COL	EP	00 06 09.0
MAR 12		
H-00 53 06.5		
19.0S 175.1W		
h ABOUT 70KM		
TUC	E(P)	01 05 09.5
BMO	EP	01 05 22.1
ALQ	EP	01 05 33.5
COL	IP	01 05 40.5
MAR 12		
NEW	IP	01 17 26.2
	ES	18 30.0

Date and Station	Phase (GCT)
	h m s
MAR 12	
H-01 23 54.6	
51.1N 157.8E	
h ABOUT 65KM	
COL IP	01 30 05.4
NFW IP	01 32 59.8
EpP	33 15.0
HHM EP	01 33 11.6
BMO EP	01 33 15.2
EpP	33 30.5
BOZ EP C	01 33 34.0
EpP	33 50.0
EUR IP C	01 33 46.0
EpP	34 01.0
BCN EP	01 34 07.1
GCA EP	01 34 14.6
TUC EP	01 34 39.2
ALQ EP C	01 34 43.0
MAR 12	
H-01 52 03.9	
15.0S 174.4W	
h ABOUT 100KM	
COL EP	02 04 14.4
MAR 12	
NEW IP	02 32 30.9
BMO IP	02 32 34.6
MAR 12	
FGU IP C	02 50 08.2
IS	50 19.6
MAR 12	
H-02 52 04.4	
42.7N 143.2E	
h ABOUT 109KM	
ADK EP	02 57 54.0
EPP	58 42.0
BRW IP D	02 59 34.1
PMR EP	02 59 56.5
COL IP C	02 59 59.2
IpP	03 00 24.4
NEW EP	03 02 35.0
IpP	03 03.0
E	03 42.0
HHM EP	03 02 45.1
BMO IP	03 02 48.4
E	02 55.2
EPCP	03 16.0
BUT EP	03 03 00.0
EpP	03 26.5
BOZ EP C	03 03 04.5
EpP	03 32.0
SLD E(P)	03 03 05.0
EUR IP C	03 03 14.2
EpP	03 41.6
BCN EP	03 03 31.2
EpP	03 59.1
TUC EP	03 04 00.0
EpP	04 26.8
ALQ EP	03 04 04.0
EpP	04 32.0
MAR 12	
BMO E(P)	03 45 37.6
MAR 12	
SJG EP	04 23 24.9
IS	23 40.0
MAR 12	
SJG IP D	04 29 14.3
IS	29 29.0
MAR 12	
SJG EP	05 12 09.5
IS	12 26.5
MAR 12	
H-05 19 00.3	
19.0N 65.1W	
h ABOUT 33KM	
SJG IP D	05 19 22.3
IS	19 37.0
NEW IP	05 28 00.0
MAR 12	
ALQ E(P)	05 20 54.0
E	20 59.0
E(L)	21 35.5
GCA E(P)	05 21 01.1
ILG	21 41.5
FGU EP	05 21 01.7
ILG	21 49.9
TUC (PN)	05 21 51.0
MAR 12	
SJG EP	05 25 14.3
E	25 29.5
MAR 12	
SJG EP	05 59 19.5
IS	59 34.0
MAR 12	
H-06 16 54.6	
14.1N 93.1W	
h ABOUT 35KM	
ALQ EP	06 22 08.5
TUC E(P)	06 22 11.0
BOZ E(P)	06 23 47.2
COL E(P)	06 27 17.5
MAR 12	
PMR IP	08 35 53.7
MAR 12	
GCA IP	10 06 42.8
IS	06 50.6
EUR E(P)	10 07 38.6
EL	08 26.0
MAR 12	
H-10 49 49.3	
28.3S 70.4W	
h ABOUT 37KM	
SJG EP	10 58 12.0
TUC E(P)	11 01 07.0
ALQ EP	11 01 08.0
E	01 28.0
BMO EP	11 02 19.4
E	02 35.2
BOZ E(P)	11 02 22.5
EUR I(P)	11 02 56.0
MAR 12	
SJG EP	10 58 31.0
MAR 12	
SJG IP	10 59 05.3
IS	59 19.7
MAR 12	
PMR IP	12 33 44.1
IS	33 56.0
MAR 12	
FGU EP	13 19 44.4
ILG	20 08.9
MAR 12	
FGU EP	13 21 58.4
ILG	22 22.6
MAR 12	
FGU EP	14 26 00.2
I	26 02.9
ILG	26 24.4
EUR E(P)	14 26 21.2
EL	27 29.5
MAR 12	
COL IP	15 30 14.5
MAR 12	
H-16 14 38.9	
32.5N 116.0W	
h ABOUT 0KM	
TUC (PN)	16 15 44.4
EUR E(P)	16 16 26.5
E	16 28.2
MAR 12	
BCN E(P)	16 15 55.2
E(L)	16 46.7
MAR 12	
TUC (PN)	16 43 22.0
BCN E(P)	16 43 54.2
E(L)	44 40.1
MAR 12	
COL EP	18 04 30.0
MAR 12	
H-18 56 48.5	
24.9S 68.9W	
h ABOUT 94KM	
SJG E(P)	19 04 37.0
EpP	04 54.0
TUC EP	19 07 49.4
BOZ E(P)	19 08 49.5
BMO EP	19 09 01.7
EsP	09 28.9
MAR 12	
CSC E(P)	20 09 56.0
MAR 12	
NEW EP	20 47 38.0
E	48 31.0
MAR 12	
BMO EP	21 18 20.5
MAR 12	
H-21 22 18.9	
28.2N 111.6W	
h ABOUT 33KM	
TUC EPN	21 23 20.0
EL	24 17.0
ALQ EP	21 24 17.0
E	25 00.0
EL	26 37.0
BCN E(P)	21 24 28.5
EL	26 39.2
GCA EP	21 24 32.5
ILG	25 59.4
EUR IP	21 25 09.2
EL	28 25.0
BMO EP	21 26 20.7
BOZ EP	21 26 24.0
E	33 02.5
HHM E(P)	21 26 54.1
NEW IP	21 26 55.0
E	27 18.0
MAR 12	
SLD E(P)	21 24 04.9
MAR 12	
EUR IP	21 28 34.8

Date and Station	Phase	(GCT) h m s
MAR 12		
FGU	EPN	22 38 38.2
	I	38 40.5
	IS	38 59.8
	ILG	39 04.0
MAR 12		
TUC	(PN)	23 28 47.0
MAR 13		
COL	EP	00 08 54.8
MAR 13		
COL	EP	00 13 49.0
MAR 13		
H-00 32 10.2		
6.5S 155.9E		
h ABOUT 164KM		
COL	IP	00 44 14.6
MAR 13		
PMR	EP	00 40 00.2
	ES	40 19.8
MAR 13		
H-00 59 04.5		
3.0N 74.6W		
h ABOUT 83KM		
SJG	EP	01 03 00.0
ALQ	EP	01 07 02.0
TUC	E(P)	01 07 11.5
BOZ	E(P)	01 08 16.5
	EPP	08 34.5
BMO	EP	01 08 41.4
NEW	EP	01 08 50.0
	EPP	09 10.0
MAR 13		
BMO	E(P)	02 49 10.0
BOZ	E(P)	02 50 02.0
MAR 13		
TUC	(PN)	03 02 28.0
BCN	EP	03 07 38.8
	EL	03 23.8
MAR 13		
H-03 07 58.0		
23.7S 68.2W		
h ABOUT 125KM		
ALQ	EP	03 18 51.0
BMO	EP	03 20 04.3
MAR 13		
FGU	IPN	03 08 00.0
	I	08 02.4
	IS	08 21.0
	ELG	08 26.0
MAR 13		
H-04 53 30.3		
3.1S 147.6E		
h ABOUT 33KM		
COL	EP	05 05 49.0
BMO	EP	05 06 55.1
NEW	EP	05 06 55.5
BOZ	E(P)	05 07 13.5
SJG	EP'	05 13 00.0
MAR 13		
GUA	E(P)	05 00 28.0
MAR 13		
BUT	E(P)	07 16 10.6
BMO	IP	07 16 18.5
MAR 13		
BOZ	E(P)	07 26 25.5
MAR 13		
H-07 37 38.3		
20.7S 178.3W		
h ABOUT 596KM		
TUC	EP	07 49 05.7
FUR	IP	07 49 05.8
PMR	IP	07 49 12.4
BMO	IP	07 49 15.9
NEW	IP	07 49 25.2
ALQ	EP	07 49 26.7
	EPP	51 36.5
COL	IP	07 49 26.9
BOZ	EP	07 49 33.5
MAR 13		
BMO	EP	08 07 14.2
TUC	E(P)	08 07 20.0
MAR 13		
EUR	IP	08 20 25.5
MAR 13		
SJG	EP	08 26 23.2
	E(S)	26 51.3
MAR 13		
SJG	EP	08 32 19.0
	E(S)	32 48.0
MAR 13		
BOZ	E(P)	08 33 30.0
MAR 13		
SJG	IP	09 38 33.5
	IS	38 48.5
MAR 13		
BOZ	EP	10 33 12.7
BMO	EP	10 33 39.5
MAR 13		
SJG	IP	11 09 53.1
	IS	10 06.5
MAR 13		
BOZ	E(P)	12 34 46.7
	E	35 20.5
MAR 13		
H-12 48 51.4		
56.2N 157.9W		
h ABOUT 57KM		
PMR	E(P)	12 50 36.1
COL	EP	12 51 13.0
NEW	IP	12 54 19.5
BMO	EP	12 54 36.6
BOZ	E(P)	12 55 01.5
EUR	EP	12 55 15.5
TUC	E(P)	12 56 24.0
MAR 13		
COL	IP	13 14 39.1
MAR 13		
H-14 44 06.0		
53.8N 165.2W		
h ABOUT 21KM		
ADK	EP	14 45 55.0
	EL	47 25.0
PMR	E(P)	14 46 51.4
COL	EP	14 47 27.0
	E(S)	50 32.0
	EL	51 47.5
NEW	IP	14 50 17.9
BMO	IP	14 50 32.5
HHM	EP	14 50 33.2
	E	50 50.2
SLD	EP	14 50 54.7
BOZ	EP	14 50 57.0
EUR	IP	14 51 08.0
BCN	EP	14 51 33.1
ALQ	EP D	14 52 18.2
	EPP	54 01.0
SJG	E(P)	14 56 15.5
	I	56 20.5
MAR 13		
COL	EP	14 51 46.0
MAR 13		
TUC	(PN)	14 51 50.0
MAR 13		
EUR	EP	16 02 29.5
MAR 13		
BCN	EP	16 04 24.9
	E	04 35.0
MAR 13		
H-16 06 54.4		
40.1S 74.6W		
h ABOUT 36KM		
BHP	IP D	16 15 38.8
SJG	EP	16 16 46.4
	EPP	18 54.0
TUC	IP D	16 18 58.9
	ES	29 01.0
ALQ	IP D	16 19 03.5
	EPP	19 14.0
	ES	29 13.0
GCA	IP	16 19 23.1
FGU	IP D	16 19 35.4
EUR	IP D	16 19 41.5
	EPP	23 04.7
	EPKKP	37 28.5
SLD	IP D	16 19 43.2
UKI	E(P)	16 19 55.5
BOZ	IP D	16 19 57.5
BMO	EP	16 20 03.7
HHM	EP	16 20 13.2
NEW	EP	16 20 15.0
	E	20 55.0
COL	IP'	16 25 38.8
MAR 13		
EUR	IP	16 21 59.0
MAR 13		
H-17 27 09.4		
3.6N 126.6E		
h ABOUT 44KM		
PMR	E(P)	17 39 36.9
COL	EP	17 39 43.0
MAR 13		
H-17 43 19.8		
37.4N 22.3E		
h ABOUT 62KM		
NEW	EP	17 56 02.0
BOZ	E(P)	17 56 02.5
BMO	EP	17 56 15.5
MAR 13		
ALQ	E(P)	18 41 16.0
	E(L)	41 47.0

Date and Station	Phase (GCT)
	h m s
MAR 13	
H-19 01 01.6	
3.6N 126.6E	
h ABOUT 35KM	
GUA E(P)	19 05 36.0
COL EP	19 13 35.0
BMO E(P)	19 15 09.1
MAR 13	
H-19 22 19.5	
19.7N 38.7E	
h ABOUT 31KM	
COL EP	19 35 42.0
EPP	39 28.0
BMO EP'	19 41 00.5
EUR EP'	19 41 01.1
I	42 06.1
TUC EP'	19 41 10.0
ALQ EP'	19 41 26.0
E	42 10.0
MAR 13	
SLD EP	19 32 59.0
ES	33 12.0
MAR 13	
COL EP	19 39 21.0
MAR 13	
FUR IP	19 42 07.0
MAR 13	
COL E(P)	19 52 32.8
MAR 13	
ALQ E(P)	20 01 36.0
E(L)	03 26.5
MAR 13	
H-20 08 26.9	
24.0S 70.4W	
h ABOUT 84KM	
EUR EP	20 20 08.0
EPP	20 26.5
BOZ E(P)	20 20 21.4
EPP	20 39.5
BMO EP	20 20 33.0
EPP	20 50.9
MAR 13	
TUC E(P)	20 19 37.0
EUR IP	20 20 26.5
MAR 13	
H-20 45 11.2	
43.2N 147.8E	
h ABOUT 54KM	
COL E(P)	20 53 01.0

Date and Station	Phase (GCT)
	h m s
MAR 13	
H-20 50 29.2	
55.8N 34.9W	
h ABOUT 33KM	
BOZ EP	20 58 59.3
BMO EP	20 59 24.9
EUR EP	20 59 49.5
MAR 13	
H-21 26 07.3	
40.3N 141.1E	
h ABOUT 107KM	
COL EP	21 34 24.0
BMO EP	21 37 08.6
EUR EP	21 37 33.5
MAR 13	
H-21 44 07.0	
82.2N 39.8E	
h ABOUT 33KM	
COL EP	21 50 41.0
NEW EP	21 52 53.0
I	53 01.0
BOZ EP	21 53 11.5
EUR IP	21 53 58.0
TUC E(P)	21 54 45.0
MAR 13	
H-21 59 48.4	
36.0N 120.6W	
h ABOUT 13KM	
SLD IP	22 00 09.6
IS	00 26.0
EUR E(P)	22 01 05.8
E	01 13.4
EL	02 18.4
MAR 13	
NEW EP	22 00 14.0
MAR 13	
TUC E(P)	22 13 15.5
MAR 13	
H-23 02 40.6	
36.2N 141.3E	
h ABOUT 57KM	
BMO I(P)	23 13 57.5
MAR 13	
EUR E(P)	23 08 25.5
MAR 13	
H-23 08 56.0	
60.6N 148.3W	
h ABOUT 33KM	
PMR IP	23 09 16.7
ES	09 40.9

Date and Station	Phase (GCT)
	h m s
COL EP	23 10 00.5
EL	11 06.0
MAR 13	
EUR IP	23 10 30.0
MAR 14	
PMR IP	02 48 31.1
IS	48 35.2
MAR 14	
H-02 56 02.8	
4.4N 82.6W	
h ABOUT 33KM	
SJG EP	03 00 47.5
ALQ EP	03 03 17.0
MAR 14	
H-03 21 30.1	
61.8N 151.9W	
h ABOUT 109KM	
PMR IP	03 21 55.2
COL EP	03 22 25.6
IS	23 06.0
MAR 14	
EUR EP	04 28 33.5
MAR 14	
PMR EP	05 42 13.6
MAR 14	
H-06 58 03.2	
28.5N 94.3E	
h ABOUT 12KM	
COL IP C	07 09 47.5
EPP	12 43.0
EPPP	14 33.0
ES	19 28.0
ESS	24 21.0
EL	28 43.0
PMR IP	07 09 55.7
NEW EP	07 11 44.0
HHM E(P)	07 11 49.0
BMO EP	07 11 58.2
BOZ E(P)	07 12 00.0
EPP	16 05.5
EUR EP	07 12 22.2
IPP	16 45.6
EPKKP	16 45.6
ALQ EP'	07 16 44.5
E	17 41.6
TUC EP'	07 16 46.0
MAR 14	
H-07 50 14.8	
82.5N 40.5E	
h ABOUT 13KM	
COL IP	07 56 50.3

Date and Station	Phase (GCT)
	h m s
HHM E(P)	07 59 02.2
NEW EP	07 59 03.0
BOZ EP	07 59 21.2
BMO EP	07 59 29.0
EUR IP	08 00 07.7
BCN E(P)	08 00 31.4
ALQ EP	08 00 33.2
TUC EP	08 00 54.0
MAR 14	
PMR IP	08 50 46.2
MAR 14	
SLD IP D	09 24 01.7
MAR 14	
EUR E(P)	09 25 25.6
EL	26 31.2
MAR 14	
TUC EP	09 59 19.3
EUR EP	09 59 20.4
BMO EP	09 59 30.5
MAR 14	
EUR EP	10 31 33.7
NEW EP	10 31 34.0
MAR 14	
H-11 39 12.3	
19.5N 147.0E	
h ABOUT 33KM	
GUA E(P)	11 40 44.9
COL EP	11 49 33.0
BMO EP	11 51 21.5
EUR E(P)	11 51 35.5
ALQ EP	11 52 20.0
MAR 14	
GUA E(P)	11 42 40.0
COL EP	11 46 30.0
MAR 14	
NEW EP	12 28 24.0
MAR 14	
H-14 35 13.4	
36.4N 70.4E	
h ABOUT 216KM	
COL EP	14 46 30.5
MAR 14	
EUR IP	15 42 22.0
MAR 14	
PMR IP	16 59 35.4
IS	59 53.0

Date and Station	Phase	(GCT)
		h m s
MAR 14		
PMR	E(P)	18 03 49.7
MAR 14		
EUR	E(P)	19 00 10.8
MAR 14		
EUR	EP	19 19 10.2
	EL	19 49.9
MAR 14		
COL	EP	19 57 30.0
MAR 14		
NEW	EP	20 40 57.0
MAR 14		
COL	IP	20 52 04.6
MAR 14		
COL	EP	21 32 00.0
MAR 14		
BOZ	EPN	21 50 51.2
	EL	51 02.0
MAR 14		
EUR	E(P)	22 02 46.8
	EL	03 33.7
MAR 14		
EUR	IP	22 03 00.2
MAR 14		
SLD	E(P)	22 20 28.3
	ES	20 41.7
MAR 14		
ALQ	EP	22 27 44.5
	E(L)	27 32.5
MAR 14		
BOZ	EPN	22 50 13.5
	EL	50 23.7
MAR 14		
EUR	EP	23 22 25.9
MAR 14		
H-23 24 47.9		
23.0S 178.7E		
h ABOUT 650KM		
SLD	EP D	23 36 04.9
TUC	EP	23 36 27.0
EUR	IP	23 36 27.2
PMR	E(P)	23 36 30.4
BMO	EP	23 36 36.8
NEW	EP	23 36 45.0
ALQ	EP	23 36 47.6
BOZ	E(P)	23 36 54.5
MAR 14		
EUR	IP	23 38 40.1
COL	EP	23 39 03.0

Date and Station	Phase	(GCT)
		h m s
MAR 15		
PMR	IP D	01 11 58.8
	IS	12 12.3
COL	IP	01 12 16.0
MAR 15		
H-01 18 04.1		
3.2N 102.2W		
h ABOUT 33KM		
EUR	IP	01 25 23.8
NEW	EP	01 26 30.0
MAR 15		
COL	EP	03 05 17.0
MAR 15		
COL	EP	04 02 14.0
MAR 15		
COL	EP	04 21 55.0
MAR 15		
COL	IP	05 15 40.9
MAR 15		
H-06 39 59.6		
18.9S 169.3E		
h ABOUT 252KM		
SLD	EP	06 52 13.2
PMR	E(P)	06 52 14.7
COL	IP	06 52 28.8
BCN	EP	06 52 33.0
EUR	IP	06 52 35.5
BMO	EP	06 52 40.7
TUC	IP	06 52 40.8
NEW	EP	06 52 48.0
BOZ	E(P)	06 52 57.6
ALQ	EP	06 53 00.5
MAR 15		
SJG	E(P)	07 19 24.0
MAR 15		
TUC	E(P)	07 53 05.0
MAR 15		
PMR	EP	08 03 43.5
MAR 15		
H-10 38 07.4		
52.1N 32.3W		
h ABOUT 33KM		
BMO	E(P)	10 47 29.4
TUC	EP	10 48 03.8
MAR 15		
TUC	E(P)	13 01 26.6
ALQ	EP	13 01 28.2

Date and Station	Phase	(GCT)
		h m s
MAR 15		
PMR	IP C	13 54 55.7
	IS	55 17.8
MAR 15		
COL	EP	15 21 32.0
MAR 15		
COL	EP	15 28 48.0
BMO	EP	15 29 14.3
TUC	E(P)	15 29 23.2
MAR 15		
EUR	E(P)	16 49 34.5
	E(L)	50 55.5
MAR 15		
EUR	EP	17 06 01.0
MAR 15		
BOZ	EPN	17 39 48.5
	E	39 52.0
	EL	39 59.5
MAR 15		
BMO	E(P)	18 10 06.2
MAR 15		
GCA	EP	18 21 46.5
	IS	22 03.5
MAR 15		
BOZ	EPN	18 31 23.3
	E	31 26.7
	EL	31 33.5
MAR 15		
BOZ	EPN	19 20 48.5
	E	20 52.0
	EL	20 59.0
MAR 15		
SLD	IP	19 30 24.0
	IS	30 37.2
MAR 15		
EUR	IP	19 35 00.8
MAR 15		
EUR	IP	20 20 30.0
MAR 15		
ALQ	E(P)	20 29 56.0
	E(L)	30 21.5
MAR 15		
ALQ	E(P)	21 10 03.5
	E(L)	10 28.0
MAR 15		
ALQ	E(P)	21 20 59.8
	E(L)	22 39.5
MAR 15		
H-22 02 09.4		
59.6S 26.0W		
h ABOUT 33KM		
BMO	EP'	22 21 11.7
COL	EP'	22 22 02.0

Date and Station	Phase	(GCT)
		h m s
MAR 15		
SJG	EP	22 15 44.3
	IS	16 19.5
MAR 15		
EUR	IP	22 18 16.2
MAR 15		
PMR	E(P)	23 20 40.9
MAR 16		
ADK	IP	00 10 53.4
	IS	10 59.9
EUR	IP	00 17 57.5
MAR 16		
GUA	IP	00 43 45.0
	IS	43 58.0
NEW	IP	00 55 47.2
BMO	EP	00 55 51.7
MAR 16		
H-01 02 02.2		
47.0S 13.4W		
h ABOUT 33KM		
BMO	EP'	01 21 07.9
COL	EP'	01 21 49.0
MAR 16		
EUR	IP	01 02 08.0
MAR 16		
ADK	IP	02 16 53.5
	IS	17 40.8
MAR 16		
COL	EP	03 29 09.0
MAR 16		
COL	EP	04 37 39.0
	E	38 00.0
MAR 16		
COL	EP	06 24 26.0
MAR 16		
H-09 26 18.4		
3.2N 74.5W		
h ABOUT 107KM		
ALQ	EP	09 34 12.0
MAR 16		
H-12 09 36.9		
22.1S 170.5E		
h ABOUT 55KM		
KIP	EP	12 18 50.2
COL	EP	12 22 41.0
TUC	E(P)	12 22 43.0
MAR 16		
H-12 13 24.1		
27.1N 96.3E		
h ABOUT 24KM		
COL	E(P)	12 25 10.0

Date and Station	Phase (GCT)
	h m s
PMR EP	12 25 17.1
MAR 16	
BMO E(P)	12 23 23.1
MAR 16	
BMO EP	12 39 54.9
MAR 16	
H-15 16 54.7	
21.5S 67.0W	
h ABOUT 221KM	
SJG EP	15 24 01.7
BMO EP	15 28 43.4
MAR 16	
H-17 33 07.6	
13.7S 170.7E	
h ABOUT 637KM	
PMR EP	17 44 20.1
SLD EP	17 44 21.9
COL EP	17 44 33.8
IS	54 09.4
EUR IP	17 44 44.8
BMO EP	17 44 49.5
TUC EP	17 44 52.6
NEW IP	17 44 55.9
E	45 22.0
GCA EP	17 44 56.6
BOZ E(P)	17 45 07.8
ALQ EP	17 45 11.5
SJG IP'C	17 50 58.5
MAR 16	
COL EP	17 54 09.0
MAR 16	
H-18 01 56.5	
42.4N 137.2E	
h ABOUT 293KM	
PMR IP	18 09 54.4
COL IP	18 09 56.3
NEW IP	18 12 29.5
BMO IP	18 12 42.7
BOZ EP C	18 12 56.3
EUR IP	18 13 08.2
TUC E(P)	18 13 51.0
MAR 16	
ALQ E(P)	18 50 16.6
E(L)	50 41.5

Date and Station	Phase (GCT)
	h m s
MAR 16	
ADK IP	18 55 33.7
IS	56 10.7
MAR 16	
H-19 02 08.5	
10.7S 166.3E	
h ABOUT 40KM	
COL EP	19 14 28.0
EUR IP	19 14 54.0
BMO EP	19 14 56.4
BOZ EP	19 15 15.3
ALQ EP	19 15 24.0
MAR 16	
ADK IP	20 35 41.0
IS	35 51.5
MAR 16	
COL EP	21 03 24.0
EUR EP	21 04 09.3
BOZ E(P)	21 04 28.0
MAR 16	
BOZ EPN	21 29 00.0
E	29 03.8
EL	29 10.8
MAR 16	
NEW EP	21 43 03.0
IS	43 50.0
MAR 16	
EUR IP	22 04 29.8
MAR 16	
BOZ EPN	22 15 58.3
E	16 03.0
EL	16 09.2
MAR 16	
ALQ E(P)	22 43 37.0
E(L)	44 02.0
MAR 16	
H-22 59 09.2	
19.5N 70.0W	
h ABOUT 33KM	
SJG IPNC	23 00 07.9
I	00 12.4
ILG	01 02.7
MAR 16	
SLD IP	23 00 51.9
E(S)	01 03.5
FGU EP	23 03 19.5
ELG	03 42.6
MAR 16	
BOZ E(P)	23 03 50.0
MAR 16	
H-23 04 01.5	
14.6S 165.9E	
h ABOUT 37KM	

Date and Station	Phase (GCT)
	h m s
COL E(P)	23 16 47.8
E	16 57.0
MAR 16	
H-23 07 27.5	
53.3N 164.7W	
h ABOUT 38KM	
ADK EP	23 09 15.0
ES	10 36.7
COL EP	23 10 57.0
EUR IP	23 14 24.2
MAR 16	
COL EP	23 16 57.0
MAR 17	
PMR EP	00 05 28.7
ES	05 54.7
MAR 17	
GCA EP	00 31 11.0
ES	31 34.8
EUR EP	00 31 27.8
MAR 17	
TUC E(P)	01 06 08.0
BMO EP	01 06 32.3
EUR EP	01 06 35.0
MAR 17	
H-01 31 32.7	
51.9N 176.0E	
h ABOUT 52KM	
ADK EP	01 32 41.3
IS	33 38.0
COL EP	01 36 31.0
EUR IP	01 40 05.0
MAR 17	
H-02 22 39.0	
42.0N 142.4E	
h ABOUT 70KM	
COL IP	02 30 45.1
NEW IP	02 33 20.3
HHM E(P)	02 33 30.1
BMO EP	02 33 33.4
SLD EP	02 33 48.6
BOZ EP	02 33 49.2
EUR IP	02 33 58.6
ALQ EP	02 34 47.5
MAR 17	
EUR IP	02 29 03.2
MAR 17	
NEW EP	02 48 10.0

Date and Station	Phase (GCT)
	h m s
EUR EP	02 48 17.4
BOZ E(P)	02 48 46.5
MAR 17	
PMR IP D	03 48 00.5
MAR 17	
TUC E(P)	04 18 41.0
MAR 17	
PMR IP	05 11 59.7
IS	12 16.7
MAR 17	
COL EP	05 30 46.9
MAR 17	
H-06 17 26.6	
5.5S 154.3E	
h ABOUT 140KM	
COL EP	06 29 31.0
I	30 07.5
EUR IP	06 30 28.5
MAR 17	
H-06 47 39.3	
53.7N 165.3W	
h ABOUT 30KM	
ADK EP	06 49 24.0
ES	50 46.2
COL E(P)	06 51 03.1
E	51 08.0
NEW EP	06 53 50.0
EUR IP	06 54 40.0
MAR 17	
COL E(P)	07 05 34.6
MAR 17	
H-07 13 20.4	
11.2S 165.3E	
h ABOUT 98KM	
COL EP	07 25 39.0
EUR EP	07 26 03.5
TUC EP	07 26 15.0
MAR 17	
H-07 43 35.5	
37.1N 141.0E	
h ABOUT 33KM	
BOZ E(P)	07 55 14.0
EUR EP	07 55 21.8
MAR 17	
PMR E(P)	08 35 38.5
MAR 17	
GUA IP	09 18 11.0
ES	18 24.0
NEW EP	09 30 16.0

Date and Station	Phase	Phase (GCT) h m s
MAR 17		
COL	EP	10 08 15.0
MAR 17		
H-11 17 18.6		
21.2S 67.6W		
h ABOUT 191KM		
ALQ	EP	11 27 52.5
EUR	EP	11 28 43.8
BMO	EP	11 29 07.6
	EpP	29 57.9
MAR 17		
H-11 24 45.8		
3.6S 150.9E		
h ABOUT 33KM		
GUA	IP	11 28 56.0
	IS	32 21.0
HON	E(P)	11 34 28.0
	ES	42 18.0
KIP	I(P)	11 34 28.7
ADK	EP	11 35 02.7
PMR	EP	11 36 49.6
COL	IP C	11 37 00.0
	IS	47 12.0
	EL	58 14.0
BMO	EP	11 38 01.1
NEW	EP	11 38 02.0
EUR	IP	11 38 06.2
HHM	EP	11 38 09.6
BOZ	E(P)	11 38 19.5
TUC	E(P)	11 38 26.5
ALQ	E(P)	11 38 42.0
	E	38 47.5
SJG	EP'	11 44 21.7
	E	12 06 06.0
MAR 17		
EUR	IP	11 41 35.3
MAR 17		
GUA	EP	11 58 54.0
	S	12 04 14.0
MAR 17		
BMO	E(P)	12 20 01.1
MAR 17		
BHP	EP C	12 25 39.0
	ES	31 27.0
	EL	35 23.4
MAR 17		
BMO	E(P)	13 13 33.8
MAR 17		
H-13 48 15.0		
7.9S 155.5E		
h ABOUT 35KM		
ADK	EP	13 58 47.0
BMO	EP	14 01 29.0
NEW	EP	14 01 30.0
EUR	IP	14 01 31.8
MAR 17		
BHP	IP C	14 24 12.3
	IS	25 20.5
MAR 17		
H-14 48 24.2		
46.7N 27.5W		
h ABOUT 33KM		
BOZ	E(P)	14 57 57.3
NEW	EP	14 58 08.0
BMO	E(P)	14 58 24.3
EUR	IP	14 58 43.8
MAR 17		
EUR	EP	14 49 39.5
COL	EP	14 51 22.0
MAR 17		
SJG	EP	16 05 31.5
MAR 17		
H-17 06 09.4		
61.4N 150.0W		
h ABOUT 41KM		
PMR	IP D	17 06 19.8
COL	E(P)	17 07 05.0
	IS	07 48.6
MAR 17		
PMR	IP	18 51 24.3
	IS	51 34.6
MAR 17		
EUR	IP	19 14 21.1
MAR 17		
EUR	IP	19 29 07.0
MAR 17		
PMR	IP D	19 31 32.2
	IS	31 45.4
MAR 17		
SLD	EP	19 32 05.5
	ES	32 18.7
MAR 17		
SLD	E(P)	19 41 25.0
MAR 17		
EUR	E(P)	19 47 19.8
MAR 17		
SLD	E(P)	19 52 00.3
	EL	53 31.5
ALQ	E(P)	19 54 46.0
	E	55 34.4
MAR 17		
EUR	IP	19 55 27.9
SLD	IP	19 55 32.7
MAR 17		
EUR	E(P)	20 00 26.2
MAR 17		
BMO	IP	20 17 31.4
MAR 17		
PMR	IP	20 18 15.5
	IS	18 31.4
MAR 17		
EUR	EP	20 38 26.5
MAR 17		
PMR	IP	20 42 04.3
	ES	42 24.1
COL	E(P)	20 42 51.5
MAR 17		
SLD	E(P)	20 52 06.2
MAR 17		
BOZ	EPN	20 56 55.7
	EL	57 06.5
MAR 17		
FGU	IP C	21 14 56.2
MAR 17		
PMR	IP	21 23 39.7
EUR	EP	21 24 39.1
SLD	IP D	21 24 43.9
MAR 17		
EUR	E(P)	21 53 30.0
	EL	54 10.5
MAR 17		
SLC	E(P)	22 01 10.2
MAR 17		
ALQ	E(P)	22 26 01.0
	E(L)	26 40.4
MAR 17		
EUR	IP	22 41 45.5
MAR 17		
PMR	IP	23 20 52.5
MAR 18		
H-00 10 56.9		
41.7N 46.3E		
h ABOUT 50KM		
COL	IP	00 22 24.8
MAR 18		
EUR	EP	01 06 14.4
MAR 18		
GCA	EP	01 29 25.5
MAR 18		
PMR	E(P)	01 35 25.9
MAR 18		
EUR	EP	02 19 35.3
MAR 18		
EUR	EP	02 42 14.9
MAR 18		
EUR	EP	04 27 32.8
MAR 18		
EUR	EP	04 48 24.5
MAR 18		
PMR	IP C	05 32 03.2
EUR	EP	05 32 35.0
MAR 18		
H-09 27 44.6		
20.8S 179.4W		
h ABOUT 677KM		
SLD	IP C	09 38 45.6
EUR	IP C	09 39 09.0
	EpP	41 26.5
	EPP	42 34.8
TUC	IP C	09 39 09.8
	EpP	41 25.0
PMR	IP	09 39 15.3
BMO	IP	09 39 19.1
SLC	E(P)	09 39 25.6
NEW	IP	09 39 27.8
	E	40 02.0
COL	IP	09 39 29.0
ALQ	IP C	09 39 29.5
	E	41 49.0
FGU	IP C	09 39 33.4
	EpP	41 49.6
HHM	E(P)	09 39 35.0
BOZ	EP	09 39 37.2
MAR 18		
EUR	E(P)	09 46 31.0
MAR 18		
COL	EP	09 54 12.0
PMR	E(P)	09 54 21.3
MAR 18		
SLD	EP	11 37 49.0
MAR 18		
COL	EP	13 16 34.0

Date and Station	Phase (GCT)
	h m s
MAR 18	
H-13 17 05.0	
49.7N 156.1E	
h ABOUT 53KM	
COL IP	13 23 33.4
NEW E(P)	13 26 38.0
BMO EP	13 26 39.4
E	26 52.9
BOZ EP	13 26 56.5
E(pP)	27 12.0
E	27 17.5
EUR EP C	13 27 09.2
EpP	27 23.6
MAR 18	
SJG EP	14 51 12.0
EUR E(P)	14 52 26.5
MAR 18	
TUC E(P)	15 35 21.2
MAR 18	
COL E(P)	16 52 21.8
MAR 18	
H-17 49 49.1	
36.3N 139.9E	
h ABOUT 86KM	
PMR EP	17 58 35.1
COL EP	17 58 39.0
NEW IP	18 01 02.0
IpP	01 22.0
BMO IP	18 01 13.3
HHM EP	18 01 13.5
EpP	01 33.0
EsP	01 40.5
SLD EP D	18 01 25.2
EpP	01 44.0
BOZ EP	18 01 29.0
EpP	01 48.2
EsP	01 56.5
EUR IP D	18 01 35.3
I	02 16.3
E	05 10.0
FGU EP	18 01 52.5
IsP	02 22.7
TUC EP	18 02 16.5
ALQ EP D	18 02 22.2
E(PP)	06 04.0
MAR 18	
EUR IP	17 56 17.8
BMO EP	17 56 51.0
MAR 18	
BMO E(P)	18 26 35.9

Date and Station	Phase (GCT)
	h m s
MAR 18	
PMR EP	18 51 55.1
MAR 18	
PMR E(P)	19 13 19.0
COL IP	19 13 30.7
EUR IP C	19 14 34.9
E	16 12.5
MAR 18	
SJG E(P)	19 21 00.2
IS	21 26.3
MAR 18	
H-19 15 35.5	
6.0S 146.3E	
h ABOUT 99KM	
GUA IP	19 19 57.0
ADK IP	19 26 11.6
PMR EP	19 27 52.7
COL IP D	19 28 01.7
IpP	28 32.5
BMO IP	19 29 04.7
EpP	29 37.9
NEW IP	19 29 05.8
E	29 21.0
EpP	29 38.0
EUR EP	19 29 09.5
EPP	33 07.2
BOZ E(P)	19 29 22.5
SJG IP'C	19 35 05.3
E	36 00.9
MAR 18	
NEW EP	19 33 01.0
MAR 18	
BMO EP	19 46 02.6
MAR 18	
BMO E(P)	20 31 04.4
COL E(P)	20 31 44.5
MAR 18	
SLC EP	22 12 49.8
MAR 18	
SLD IP	22 25 04.0
ES	25 16.8
ALQ E(P)	22 26 37.0
E	26 48.5
E(L)	27 27.5
MAR 18	
ALQ E(P)	22 55 05.0
E	23 03 07.0
MAR 18	
BOZ E(P)	23 32 14.5
BMO EP	23 32 35.3

Date and Station	Phase (GCT)
	h m s
COL IP	23 33 24.5
MAR 18	
EUR EP	23 43 36.0
MAR 19	
H-00 37 09.7	
63.6N 19.1W	
h ABOUT 33KM	
BMO EP	00 46 36.4
MAR 19	
H-01 10 49.1	
6.7S 129.9E	
h ABOUT 89KM	
GUA EP	01 16 07.0
ES	20 23.0
ADK IP	01 22 16.7
KIP IP C	01 22 29.9
BRW IP C	01 23 43.9
E	24 20.8
IPP	27 20.7
PMR EP	01 23 46.6
COL IP C	01 23 51.0
EPP	27 32.8
EPKKP	41 35.0
SLD E(P)	01 25 09.5
EP'	29 11.9
E	29 39.4
NEW EP	01 25 11.0
EP'	01 29 13.8
E	29 34.0
BMO EP	01 25 14.7
EP'	01 29 13.3
E	29 42.2
EUR EP	01 25 24.7
I	26 02.4
IP'	29 17.3
IPP	30 05.3
ISKP	32 42.8
HHM EP'	01 29 16.0
BOZ EP'	01 29 21.1
E	29 53.0
ESKP	32 44.5
SLC EP'	01 29 23.8
E	30 25.8
ESKP	32 48.5
FGU IP'C	01 29 26.8
TUC EP'	01 29 28.0
E	30 43.5
ALQ IP'C	01 29 34.5
E	30 07.0
E	38 35.0
BHP IP'C	01 30 26.3

Date and Station	Phase (GCT)
	h m s
SJG IP'C	01 30 40.0
IpP'	31 23.5
EPP	34 54.0
I	46 26.5
MAR 19	
ADK IP	01 24 26.6
IS	25 06.7
MAR 19	
ADK IP	01 30 16.6
IS	30 58.1
MAR 19	
BMO E(P)	01 39 41.4
E	40 11.4
BOZ E(P)	01 40 05.0
EUR IP	01 40 06.0
NEW EP	01 40 08.0
COL EP	01 41 03.0
MAR 19	
ADK IP	01 51 28.7
IS	52 11.5
MAR 19	
ADK IP	01 51 28.7
IS	52 11.5
MAR 19	
H-02 14 30.4	
25.8S 70.5W	
h ABOUT 33KM	
TUC E(P)	02 24 34.2
MAR 19	
EUR IP	02 24 21.8
MAR 19	
H-02 54 19.7	
27.8N 130.4E	
h ABOUT 33KM	
COL EP	03 04 36.0
NEW EP	03 06 43.0
BMO EP	03 06 53.2
BOZ EP	03 07 07.0
EUR EP	03 07 12.0
FGU EP	03 07 27.7
EpP	07 38.4
MAR 19	
H-03 36 58.2	
45.4N 151.3E	
h ABOUT 39KM	
COL EP	03 44 14.0
NEW E(P)	03 47 10.0
BMO E(P)	03 47 21.6
EUR I(P)	03 47 50.5

Date and Station	Phase	Phase (GCT) h m s
MAR 19		
BOZ	E(P)	03 47 00.0
MAR 19		
H-04 01 39.4		
45.7N 151.2E		
h ABOUT 45KM		
ADK	IP	04 06 34.3
	ES	09 59.0
GUA	EP	04 08 06.0
	ES	12 29.0
RRW	IP C	04 08 33.5
	ES	14 23.2
PMR	EP	04 08 47.8
COL	EP	04 08 52.0
	IS	14 48.0
	IL	17 33.0
SIT	E(P)	04 09 57.5
	IS	16 40.0
HON	IP D	04 10 16.2
	IS	17 14.2
NEW	EP	04 11 34.0
UKI	E(P)	04 11 46.0
HHM	EP	04 11 46.5
	ES	20 05.5
	E	20 24.5
	E	21 36.5
BMO	EP	04 11 47.7
	E	11 57.8
BUT	EP	04 12 04.3
	ES	20 31.3
	E	20 57.3
	ESCS	21 24.3
SLD	EP	04 12 04.5
	E(S)	20 41.0
BOZ	EP	04 12 06.5
	ES	20 38.0
	E	21 05.0
EUR	EP C	04 12 14.8
	I	12 29.3
	ES	20 55.0
	EP'P'	39 53.0
SLC	EP	04 12 29.0
	ES	21 20.3
FGU	EP	04 12 33.5
GCA	EP	04 12 41.5
TUC	EP	04 13 03.5
	EPP	13 19.5
	ES	22 33.0
ALQ	EP	04 13 08.5
	EPP	13 26.5
	ES	22 40.0
WSC	E(P)	04 14 11.7
CSC	EP	04 14 23.1
	E	24 50.0
BHP	E(P)	04 16 10.4
	IS	26 38.0
SJG	EP'	04 20 26.6
	E	26 32.0
	ESKKS	27 58.0
	ESS	35 38.0
	ESSS	40 54.0
MAR 19		
LVN	EP	04 12 16.0
MAR 19		
COL	EP	04 33 06.0
BMO	E(P)	04 36 14.2
BOZ	E(P)	04 36 26.5
MAR 19		
BMO	EP	04 40 45.1
	E	41 33.7
GCA	E(P)	04 40 54.0
BOZ	E(P)	04 41 05.0
MAR 19		
PMR	IP D	04 55 43.1
MAR 19		
BMO	E(P)	05 29 02.5
	E	29 36.8
MAR 19		
H-05 55 04.1		
13.9N 120.6E		
h ABOUT 96KM		
COL	EP	06 06 54.0
MAR 19		
EUR	IP	07 30 16.8
BOZ	E(P)	07 30 33.5
MAR 19		
EUR	E(P)	07 36 21.5
MAR 19		
NEW	EP	08 27 53.0
MAR 19		
NEW	EP	09 40 32.0
MAR 19		
COL	EP	10 58 20.0
MAR 19		
SLD	E(P)	11 28 17.7
ALQ	E(P)	11 28 21.0
BOZ	E(P)	11 30 44.0
MAR 19		
BMO	E(P)	11 39 55.5
EUR	E(P)	11 40 02.5
MAR 19		
EUR	IP	11 43 13.7
MAR 19		
NEW	IP	13 41 29.3
	I	41 43.0
MAR 19		
NEW	EP	13 48 49.0
MAR 19		
NEW	EP	13 50 47.0
MAR 19		
EUR	E(P)	13 57 37.7
MAR 19		
NEW	IP	14 02 01.8
	I	02 15.0
MAR 19		
NEW	EP	14 54 13.0
	I	54 26.0
MAR 19		
H-15 17 11.5		
10.4N 125.9E		
h ABOUT 130KM		
BRW	EP	15 28 47.1
COL	EP	15 29 02.0
MAR 19		
H-15 53 24.5		
10.5N 126.2E		
h ABOUT 62KM		
BRW	EP	16 05 07.1
COL	EP	16 05 22.0
SJG	EP'	16 13 08.5
MAR 19		
NEW	IP	15 56 24.4
	E	56 38.0
MAR 19		
EUR	IP C	16 22 34.0
	I	22 41.5
	IS	23 06.4
MAR 19		
H-16 23 56.5		
45.2N 150.9E		
h ABOUT 46KM		
COL	EP	16 31 14.0
BOZ	E(P)	16 34 27.5
EUR	E(P)	16 34 36.5
	E	34 50.5
MAR 19		
EUR	E(P)	16 33 46.5
MAR 19		
COL	EP	16 52 08.0
	I	52 11.3
	IS	52 28.4
PMR	IP	16 52 37.9
MAR 19		
H-17 25 11.0		
51.9N 180.0W		
h ABOUT 20KM		
ADK	IP	17 25 45.5
	IS	26 10.5
PMR	EP	17 29 37.4
COL	EP	17 29 55.0
BRW	EP	17 30 10.7
NEW	IP	17 32 43.6
BMO	EP	17 32 54.0
SLD	EP	17 33 13.9
BOZ	E(P)	17 33 16.3
	E	33 27.3
EUR	IP	17 33 27.2
BCN	EP	17 33 50.0
	EPP	33 58.7
TUC	EP	17 34 27.0
	EPP	34 35.1
ALQ	EP	17 34 33.5
MAR 19		
ALQ	E(P)	17 26 44.0
	E	29 21.5
MAR 19		
EUR	EP	17 38 56.5
ADK	EP	17 39 21.2
MAR 19		
BMO	E(P)	17 51 57.8
MAR 19		
FGU	E(P)	20 07 48.3
	I	07 50.1
	I	07 53.9
	ILG	08 18.8
EUR	E(P)	20 08 17.0
	EL	09 33.5
MAR 19		
SJG	EP	20 36 35.8
	I(S)	36 48.5
MAR 19		
H-20 48 45.6		
62.7N 150.8W		
h ABOUT 81KM		
PMR	IP D	20 49 09.5
COL	IP	20 49 25.3
	ES	49 52.0
MAR 19		
BMO	EP	20 54 36.0

Date and Station	Phase (GCT) h m s
MAR 19	
H-21 29 24.1	
7.0N 73.1W	
h ABOUT 140KM	
BOZ EP	21 38 11.3
BMO E(P)	21 38 32.3
MAR 19	
H-21 42 42.8	
10.8S 74.8W	
h ABOUT 128KM	
SLD EP	21 53 09.4
BOZ EP	21 53 11.2
BMO FP	21 53 26.4
EpP	53 54.8
MAR 19	
COL EP	21 43 11.0
MAR 19	
H-21 50 44.0	
45.6N 151.1E	
h ABOUT 18KM	
COL EP	21 58 00.0
BMO E(P)	22 00 59.1
BOZ EP	22 01 15.0
EUR IP	22 01 25.2
MAR 19	
SLC EP	22 04 45.7
EUR E(P)	22 05 30.0
EL	05 20.7
MAR 19	
H-22 35 15.8	
38.1S 73.4W	
h ABOUT 36KM	
ALQ EP	22 47 17.0
EUR EP	22 47 56.0
MAR 19	
FUR EP	23 00 32.1
MAR 19	
COL E(P)	23 17 40.0
MAR 20	
PMR IP D	00 10 35.5
IS	10 53.5
MAR 20	
TUC E(P)	01 19 42.6
MAR 20	
SJG IP D	01 31 24.5
IS	31 34.0
MAR 20	
EUR E(P)	01 33 21.0
EL	33 51.0

Date and Station	Phase (GCT) h m s
MAR 20	
COL IP	01 46 22.3
FUR IP	01 50 07.8
MAR 20	
SJG IP	01 53 04.0
IS	53 27.2
MAR 20	
H-02 10 17.3	
37.3N 114.2W	
h ABOUT 10KM	
LVN IP	02 10 42.0
ES	11 08.0
BCN EP	02 10 44.4
E	10 52.9
ES	11 03.9
GCA IP	02 10 55.0
IS	11 21.0
EUR EP	02 10 59.6
I	11 02.6
ES	11 31.0
EL	11 36.3
ALQ E(P)	02 12 06.5
MAR 20	
PMR IP D	04 26 08.1
IS	26 19.4
MAR 20	
H-05 13 57.3	
45.3N 150.9E	
h ABOUT 42KM	
BRW E(P)	05 20 55.5
COL EP	05 21 15.0
BOZ EP	05 24 27.5
EUR IP	05 24 39.0
MAR 20	
COL EP	07 30 08.0
MAR 20	
EUR E(P)	07 58 39.0
MAR 20	
H-08 05 07.2	
47.2N 151.8E	
h ABOUT 66KM	
COL EP	08 12 06.0
BMO E(P)	08 15 13.1
BOZ E(P)	08 15 29.5
E	15 36.2
EUR EP	08 15 31.0
IpP	15 46.0
MAR 20	
H-08 23 00.8	
60.4N 149.6W	
h ABOUT 60KM	

Date and Station	Phase (GCT) h m s
PMR IP C	08 23 21.1
COL EP	08 24 09.0
IS	25 04.9
NEW EP	08 27 53.0
BMO EP	08 28 17.6
E	28 27.9
BOZ E(P)	08 28 45.5
EUR I(P)	08 29 13.0
MAR 20	
H-08 30 20.3	
20.1S 168.4E	
h ABOUT 47KM	
COL E(P)	08 43 20.8
MAR 20	
H-08 42 06.0	
13.4N 90.0W	
h ABOUT 8KM	
BOZ E(P)	08 49 16.4
MAR 20	
H-08 47 48.6	
6.4S 148.4E	
h ABOUT 50KM	
COL EP	09 00 17.0
EUR E(P)	09 01 24.5
SJG EP'	09 07 35.0
MAR 20	
MID IP	09 24 22.4
I	24 23.4
MAR 20	
H-09 30 34.3	
45.2N 151.5E	
h ABOUT 30KM	
COL EP	09 37 52.0
NEW EP	09 40 32.0
BMO E(P)	09 40 46.5
BOZ E(P)	09 41 07.0
EpP	41 17.5
EUR IP	09 41 13.5
MAR 20	
BCN E(P)	09 56 33.0
MAR 20	
SJG IP	10 08 25.0
E	08 37.8
MAR 20	
SJG EP	10 20 35.5
IS	20 49.9
MAR 20	
H-10 48 08.7	
52.0N 175.3E	
h ABOUT 51KM	

Date and Station	Phase (GCT) h m s
ADK EP	10 49 23.1
COL EP	10 53 08.0
BRW EP	10 53 11.0
BMO EP	10 56 10.4
BOZ EP	10 56 32.3
EUR IP	10 56 42.7
BCN E(P)	10 57 05.7
TUC E(P)	10 57 41.4
MAR 20	
BOZ EPN	11 10 09.0
EL	10 17.0
MAR 20	
GCA EP	11 37 19.5
MAR 20	
COL EP	13 27 52.0
MAR 20	
H-13 31 34.3	
45.5N 151.5E	
h ABOUT 50KM	
BRW EP C	13 38 27.1
PMR EP	13 38 40.6
COL EP C	13 38 46.6
ES	44 38.5
EL	47 09.0
NEW IP	13 41 29.3
IpP	41 43.0
HHM EP	13 41 40.4
EpP	41 54.1
UKI E(P)	13 41 40.5
BMO EP	13 41 42.0
EpP	41 55.9
SLD IP C	13 41 58.5
IpP	42 11.7
BOZ EP	13 42 00.5
EPP	44 32.7
ES	50 33.0
BUT E(P)	13 42 01.3
EUR IP C	13 42 09.2
IpP	42 23.5
E	44 50.3
SLC EP	13 42 20.0
E	42 26.0
EpP	42 34.0
E	43 09.0
LVN E(P)	13 42 20.0
FGU EP	13 42 27.7
I(pP)	42 43.2

Date and Station	Phase	(GCT) h m s
MAR 21		
HHM	EPN	16 47 32.0
	EL	47 39.4
BOZ	EPN	16 47 34.5
	EL	47 54.7
NEW	EP	16 47 45.0
	ES	48 25.0
MAR 21		
EUR	E(P)	17 53 52.0
MAR 21		
H-18 11 43.5		
6.8N 73.0W		
h ABOUT 161KM		
BHP	IP D	18 13 17.8
	IS	14 34.2
SJG	IP	18 14 41.8
	IS	16 58.3
ALQ	IP C	18 19 18.4
	EpP	19 52.0
	ES	25 31.4
TUC	IP C	18 19 31.8
	ES	25 49.0
GCA	IP C	18 19 54.9
	IpP	20 31.6
FGU	IP	18 20 00.3
BCN	EP	18 20 09.0
	E	20 18.0
	EpP	20 45.5
SLC	EP	18 20 11.8
EUR	IP	18 20 27.0
BOZ	IP	18 20 30.5
	EPP	22 35.0
SLD	IP	18 20 46.9
	IsP	21 39.9
BMO	IP	18 20 51.4
HHM	EP	18 20 52.4
	EPCP	21 55.7
NEW	IP	18 21 04.0
	EpP	21 43.0
COL	IP	18 23 21.9
	EPP	26 17.0
PMR	IP	18 23 22.1
BRW	EP	18 23 44.3
MAR 21		
SJG	I(P)	18 22 42.0
	I	23 20.0
MAR 21		
H-18 37 30.5		
15.2S 173.2W		
h ABOUT 259KM		
BCN	EP	18 48 45.5
EUR	EP	18 48 51.0
TUC	EP	18 48 51.4
GCA	EP	18 49 02.0
	E	49 08.0
BMO	IP	18 49 03.2
NEW	EP	18 49 14.0
ALQ	EP D	18 49 16.0
COL	IP	18 49 22.8
BOZ	EP	18 49 23.5
HHM	EP	18 49 23.7
MAR 21		
BUT	EP	18 58 36.0
BOZ	EPN	18 58 49.0
	EL	59 00.0
MAR 21		
BOZ	E(P)	18 59 23.5
MAR 21		
H-19 06 29.1		
11.5S 165.6E		
h ABOUT 29KM		
COL	IP	19 18 56.0
EUR	IP	19 19 20.5
BMO	EP	19 19 23.2
NEW	EP	19 19 30.0
MAR 21		
BMO	IP	19 13 35.7
BCN	EP	19 15 21.4
MAR 21		
BMO	E(P)	19 59 05.9
	E	59 22.5
MAR 21		
ADK	IP	20 21 32.0
	IS	21 46.4
MAR 21		
ALQ	E(P)	20 45 18.5
MAR 21		
COL	EP	22 11 11.0
MAR 21		
PMR	E(P)	23 02 41.4
MAR 21		
H-23 05 27.6		
46.6N 150.4E		
h ABOUT 11KM		
COL	EP	23 12 40.0
EUR	E(P)	23 16 02.5
MAR 21		
COL	EP	23 25 50.0
MAR 22		
H-00 10 53.6		
11.8S 165.5E		
h ABOUT 55KM		
COL	IP	00 23 17.7
EUR	EP	00 23 43.0
	EsP	24 10.4
BCN	EP	00 23 43.5
BMO	EP	00 23 44.8
MAR 22		
GUA	EP	00 22 19.0
	ES	25 02.0
MAR 22		
BOZ	EPN	00 28 57.0
	EL	29 07.5
BMO	EP	00 30 32.9
MAR 22		
BMO	EP	00 47 59.3
MAR 22		
ADK	IP	01 16 21.0
	IS	16 46.7
MAR 22		
BMO	E(P)	02 00 35.2
COL	EP	02 00 44.0
MAR 22		
GUA	IP	02 20 43.0
	IS	20 55.0
BMO	EP	02 32 53.8
MAR 22		
ALQ	EP	03 09 34.4
	E	09 42.0
MAR 22		
H-03 59 46.1		
17.8S 178.7W		
h ABOUT 551KM		
EUR	EP	04 11 08.1
TUC	EP	04 11 09.0
BMO	IP	04 11 17.7
COL	EP	04 11 26.0
MAR 22		
H-05 05 18.8		
10.8S 79.0W		
h ABOUT 33KM		
SJG	EP	05 11 37.0
ALQ	EP	05 14 31.0
	EpP	14 39.0
TUC	E(P)	05 14 38.4
EUR	IP	05 15 30.5
BOZ	E(P)	05 15 45.5
BMO	EP	05 15 57.8
NEW	EP	05 16 14.0
COL	EP	05 18 20.3
	EpP	18 28.3
MAR 22		
EUR	IP	05 09 38.2
MAR 22		
H-05 20 15.8		
11.1S 79.2W		
h ABOUT 33KM		
ALQ	EP	05 29 29.0
	EpP	29 37.5
TUC	E(P)	05 29 35.0
FGU	EP	05 30 14.0
	EpP	30 22.5
EUR	IP	05 30 28.0
BOZ	E(P)	05 30 43.5
	EpP	30 53.0
NEW	EP	05 31 14.0
COL	EP	05 33 18.0
MAR 22		
COL	EP	05 52 01.0
MAR 22		
H-05 58 23.5		
51.4N 173.5E		
h ABOUT 33KM		
ADK	EP	05 59 52.5
	ES	06 00 59.0
BRW	EPN	06 03 34.5
COL	EP	06 03 35.0
	I	05 13.1
NEW	IP	06 06 23.5
	E	07 43.0
BMO	IP	06 06 38.0
BOZ	EP	06 07 00.0
	EpP	07 11.0
EUR	IP D	06 07 09.9
	IpP	07 20.7
TUC	EP	06 08 07.8
ALQ	IP	06 08 14.4
MAR 22		
BMO	EP	06 06 09.9
MAR 22		
EUR	EP	06 30 05.8

Date and Station	Phase (GCT)
	h m s
MAR 22	
COL E(P)	08 29 11.7
MAR 22	
H-09 15 29.2	
12.7N 87.8W	
h ABOUT 70KM	
ALQ EP	09 21 15.0
TUC E(P)	09 21 22.5
E	21 27.1
FGU EP D	09 22 08.6
EsP	22 20.3
IsP	22 27.1
EPP	23 19.6
EUR E(P)	09 22 30.5
BOZ EP	09 22 48.0
EsP	23 04.7
BMO IP	09 23 04.0
NEW IP	09 23 22.8
MAR 22	
ALQ EP	10 14 08.0
COL EP	10 14 09.0
MAR 22	
H-11 00 23.1	
45.1N 151.3E	
h ABOUT 16KM	
COL E(P)	11 07 43.5
MAR 22	
BRW E(P)	12 39 34.8
MAR 22	
H-13 00 23.9	
5.4S 146.4E	
h ABOUT 34KM	
GUA EP	13 04 45.0
ES	06 25.0
ADK E(P)	13 11 04.6
COL EP	13 12 54.0
BRW E(P)	13 12 55.8
BMO EP	13 13 58.8
NEW EP	13 14 01.0
I	14 15.0
EUR E(P)	13 14 04.0
SJG EP'	13 20 03.0
MAR 22	
ALQ E(P)	13 30 20.0
MAR 22	
BMO EP	13 52 05.8
MAR 22	
COL EP	14 56 31.0

Date and Station	Phase (GCT)
	h m s
MAR 22	
H-14 59 22.4	
41.4N 124.9W	
h ABOUT 7KM	
UKI EP	15 00 04.8
SLD IP D	15 00 42.0
IS	01 43.4
BMO IPN	15 01 02.1
EUR IP	15 01 10.8
NEW EP	15 01 32.0
I	01 54.0
HHM E(P)	15 01 53.2
BOZ EP	15 01 56.0
E	02 07.0
FGU EP	15 02 15.0
I	02 20.0
ALQ EP	15 03 09.5
COL E(P)	15 05 06.2
MAR 22	
COL EP	15 24 38.0
MAR 22	
EUR E(P)	15 51 11.5
EL	51 52.5
MAR 22	
COL EP	16 14 24.0
MAR 22	
EUR IP	17 44 31.5
MAR 22	
SJG E(P)	19 04 16.5
IS	05 11.5
MAR 22	
H-19 13 04.8	
10.6S 161.7E	
h ABOUT 35KM	
COL EP	19 25 32.0
EUR IP	19 26 07.0
BMO E(P)	19 26 07.5
MAR 22	
ALQ E(P)	20 05 58.5
E	06 16.4
MAR 22	
ALQ E(P)	21 16 17.6
E	16 46.4
MAR 22	
H-21 17 37.1	
56.2S 27.7W	
h ABOUT 44KM	
BMO EP'	21 36 33.3
HHM EP'	21 36 34.2

Date and Station	Phase (GCT)
	h m s
NEW IP'	21 36 38.5
COL IP'	21 37 22.7
PMR EP'	21 37 23.3
MAR 22	
EUR EP	21 51 50.0
MAR 22	
ALQ E(P)	22 29 19.0
E	29 28.2
E(L)	30 08.8
MAR 22	
ADK IP	23 35 14.4
IS	35 49.7
BRW EP	23 39 11.0
MAR 22	
EUR EP	23 40 08.3
MAR 22	
H-23 46 21.3	
15.0S 176.5W	
h ABOUT 33KM	
EUR E(P)	23 58 19.0
TUC E(P)	23 58 22.8
BMO EP	23 58 30.0
COL EP	23 58 40.0
ALQ E(P)	23 58 45.0
BOZ E(P)	23 58 49.5
MAR 23	
H-00 18 33.6	
15.2S 173.4W	
h ABOUT 33KM	
EUR EP	00 30 20.5
TUC E(P)	00 30 21.5
E	30 43.0
ALQ EP	00 30 46.0
COL IP	00 30 51.3
MAR 23	
H-00 35 41.6	
16.8S 177.1W	
h ABOUT 33KM	
EUR IP	00 47 49.2
TUC E(P)	00 47 49.7
ALQ E(P)	00 48 05.0
NEW EP	00 48 09.0
COL IP	00 48 11.2
BOZ E(P)	00 48 19.2
MAR 23	
EUR IP	00 57 28.2

Date and Station	Phase (GCT)
	h m s
MAR 23	
BCN E(P)	02 23 24.7
EL	24 01.0
EUR EP	02 24 01.6
EL	25 40.3
MAR 23	
H-02 46 48.6	
2.7S 68.0E	
h ABOUT 16KM	
SLD EP'	03 06 27.3
BCN EP'	03 06 32.2
ALQ EP'	03 06 33.0
TUC EP'	03 06 42.7
MAR 23	
BOZ E(P)	03 06 74.5
MAR 23	
ADK E(P)	03 19 21.7
MAR 23	
PMR EP	05 03 41.8
MAR 23	
H-05 23 33.9	
2.7S 68.0E	
h ABOUT 33KM	
EUR IP'	05 43 02.1
SLD EP'	05 43 09.6
ALQ EP'	05 43 15.0
BCN EP'	05 43 16.2
E	43 24.7
TUC EP'	05 43 25.0
MAR 23	
SLD EP	05 23 51.4
TUC E(P)	05 24 06.9
MAR 23	
TUC E(P)	07 33 36.0
E	35 03.8
MAR 23	
TUC EP	07 38 04.2
E	39 30.2
MAR 23	
H-08 31 10.5	
13.5N 45.0W	
h ABOUT 33KM	
TUC E(P)	08 41 34.0
BCN E(P)	08 41 53.2
EUR E(P)	08 42 02.8
NEW EP	08 42 08.0
COL EP	08 43 35.0

Date and Station	Phase	(GCT) h m s
MAR 23		
H-08 45 20.3		
52.3N 174.0E		
h ABOUT 62KM		
ADK	EP	08 46 45.9
	ES	47 41.5
COL	EP	08 50 21.0
NEW	EP	08 53 12.0
MAR 23		
BRW	E(P)	10 31 43.7
MAR 23		
COL	EP	10 39 33.0
MAR 23		
SLD	EP	11 40 17.5
	ES	40 36.5
FUR	IP	11 41 16.8
MAR 23		
BCN	E(P)	11 42 07.2
MAR 23		
H-13 41 56.6		
45.3N 151.8E		
h ABOUT 47KM		
BRW	E(P)	13 48 51.3
COL	IP	13 49 10.8
NEW	EP	13 51 52.0
BOZ	E(P)	13 52 23.5
EUR	IP	13 52 32.9
BCN	E(P)	13 52 52.2
	EpP	53 04.6
MAR 23		
COL	EP	14 44 50.0
MAR 23		
H-15 00 28.3		
4.6S 101.9E		
h ABOUT 33KM		
BRW	EP	15 14 02.8
HHM	EP'	15 19 25.1
NEW	EP'	15 19 29.0
EUR	IP'	15 19 41.0
ALQ	EP'	15 19 49.0
MAR 23		
EUR	IP	15 23 02.9
MAR 23		
CSC	E(P)	16 04 05.0
MAR 23		
BMO	E(P)	17 21 54.7
MAR 23		
ALQ	E(P)	18 51 08.2
	E(L)	51 43.6
MAR 23		
COL	EP	19 29 50.0
EUR	IP	19 31 31.2
MAR 23		
ADK	EP	20 12 50.3
	IS	13 15.7
MAR 23		
SLC	EP	21 58 50.6
	E	59 25.5
EUR	E(P)	21 59 34.5
	EL	22 00 20.9
MAR 23		
BCN	E(P)	22 53 58.3
	E	54 05.8
	EL	54 36.3
MAR 23		
ADK	EP	23 32 06.0
	ES	32 59.3
MAR 24		
NEW	EP	00 44 05.0
MAR 24		
H-01 08 06.0		
24.2N 121.7E		
h ABOUT 41KM		
BRW	EP	01 18 41.4
COL	EP	01 19 06.0
NEW	EP	01 21 07.0
HHM	EP	01 21 15.0
BMO	EP	01 21 16.9
MAR 24		
H-01 23 26.8		
45.2N 150.9E		
h ABOUT 55KM		
BRW	E(P)	01 30 23.5
COL	IP	01 30 43.5
MAR 24		
H-01 32 35.7		
20.9S 169.0E		
h ABOUT 37KM		
TUC	E(P)	01 45 45.0
MAR 24		
BOZ	E(P)	01 46 32.5
	E	47 02.0
	E	47 57.0
MAR 24		
H-01 56 24.6		
6.0S 105.3E		
h ABOUT 27KM		
HHM	EP'	02 15 26.0
BOZ	EP'	02 15 32.5
EUR	EP'	02 15 34.5
CSC	EP'	02 16 18.7
MAR 24		
H-03 18 58.7		
42.5N 86.7E		
h ABOUT 22KM		
COL	IP	03 29 37.2
MAR 24		
BHP	IP	03 38 38.8
	IS	39 08.9
MAR 24		
H-04 11 30.4		
40.2N 144.6E		
h ABOUT 33KM		
BRW	IP D	04 19 24.1
COL	IP	04 19 45.1
NEW	EP	04 22 16.0
HHM	EP	04 22 26.6
BMO	EP	04 22 27.9
BOZ	EP	04 22 44.5
EUR	EP	04 22 52.6
ALQ	EP	04 23 42.5
MAR 24		
H-06 15 51.5		
3.3N 74.2W		
h ABOUT 136KM		
ALQ	EP	06 23 43.6
BOZ	E(P)	06 25 04.0
MAR 24		
H-06 18 02.8		
12.2N 125.9E		
h ABOUT 18KM		
BRW	E(P)	06 29 42.2
MAR 24		
SJG	IP D	07 16 33.5
	IS	16 58.7
MAR 24		
H-09 00 19.1		
6.0S 112.3E		
h ABOUT 595KM		
GUA	EP	09 06 46.0
	E(pP)	08 28.5
	ES	11 52.0
ADK	IP	09 11 43.7
	IP	11 46.8
	IpP	13 51.8
	I	21 10.8
BRW	IP D	09 12 44.4
	IpP	14 54.8
	E	18 28.7
	EPKKP	29 28.5
	EpPKKP	31 46.5
	EP'P'	27 34.7
	SKPP'	29 54.0
COL	EP	09 13 02.1
	IpP	15 10.2
	IPP	17 15.3
	I	18 33.3
	EpPP	19 00.5
	ISKS	22 40.0
	ESP	25 15.0
	EPS	26 20.0
	EPKKP	29 20.8
	EP'P'	37 39.5
NEW	EP'	09 18 05.0
	I	19 43.0
	EpP'	20 36.0
BMO	EP'	09 18 07.9
	EPKKP	28 09.1
HHM	IP'	09 18 09.0
	IpP'	20 25.4
SLD	IP'	09 18 09.7
	E	19 54.8
	IpP'	20 26.8
	I	21 51.3
	EPKKP	28 07.8
TUC	EP'	09 18 11.0
	E	18 29.8
	EpP'	20 48.0
	E	25 21.4
BUT	EP'	09 18 12.6
BOZ	IP'C	09 18 14.7
	IpP'	20 32.0
	IpPP	22 06.5
EUR	IP'	09 18 15.5
	IPP	20 13.4
	IpP'	20 35.3
	I(pPP)	22 10.5
	IPKKP	27 55.6
	ISKKP	31 09.7
ALQ	EP'	09 18 19.0
	E	18 32.0
	EpP'	20 50.0
	ESKP	21 07.0
	EpPP	24 20.0
	E	25 04.0
	E	38 05.0
SLC	EP'	09 18 20.0
	EpP'	20 35.0
	EpPP	22 26.0
	EsPP	24 31.5
BCN	EP'	09 18 20.5
	EpP'	20 36.5
	E	22 29.4

Date and Station	Phase (GCT)
	h m s
FGU EP'	09 18 23.3
EpP'	20 40.0
IPP	20 49.7
ISKP	20 52.3
ISKS	25 11.3
GCA EP'	09 18 24.0
EpP'	20 40.5
IPP	20 50.2
E	25 09.5
WSC IP'	09 18 52.1
IpP'	21 09.7
CSC EP'	09 19 00.0
E	21 11.0
EpP'	21 22.0
EpPP	24 47.0
EPPP	26 40.0
SJG IP'C	09 19 18.8
EP'	20 32.0
EpP'	21 36.0
ESKP	22 38.5
EPP	24 23.5
sSKP	25 52.9
EpPP	26 25.0
ESKKS	30 06.5
E	31 03.7
SKSP	33 49.0
ESS	44 15.0
E	49 54.0
ESSS	51 28.0
BHP IP'	09 19 19.2
IP'	22 41.0
E	30 07.6
HON IpP	09 14 37.3
KIP IpP	09 14 38.2
PMR IpP	09 15 08.6
I	15 39.7
I	18 59.5
ESKS	22 38.4
MAR 24	
GUA EP	09 04 46.0
ES	11 50.0
BMO E(P)	09 14 59.0
MAR 24	
H-11 11 43.5	
34.6N 69.9E	
h ABOUT 70KM	
COL E(P)	11 23 28.0
MAR 24	
ADK E(P)	11 12 37.0
MAR 24	
H-11 46 14.1	
5.9S 112.3E	
h ABOUT 606KM	
BRW EP D	11 58 38.0
EpP	12 00 48.8
NEW IP'	12 04 00.3
E	05 33.0
BMO EP'	12 04 02.1
EPKKP	14 01.2
SLD IP'	12 04 04.4
EPKKP	14 03.7
TUC EP'	12 04 07.0
E	04 24.3
EpP'	06 54.2
BOZ EP'	12 04 08.7
E	04 16.7
E	04 29.0
EpP'	06 47.7
EUR IP'	12 04 10.0
EPP	06 05.2
IpP'	06 28.5
E(pPP)	08 06.0
IPKKP	13 49.2
ALQ EP'	12 04 14.0
E	04 27.0
EpP'	06 43.0
E	07 00.0
GCA EP'D	12 04 18.2
SJG EP'	12 05 13.5
EP'	06 28.3
MAR 24	
FGU IP D	12 06 42.7
COL IP	12 15 08.0
MAR 24	
PMR IP	12 15 39.5
IS	15 51.3
MAR 24	
BRW E(P)	12 28 33.3
MAR 24	
COL EP	13 13 47.0
MAR 24	
COL EP	14 01 07.0
MAR 24	
H-14 23 28.1	
14.9N 93.6W	
h ABOUT 84KM	
ALQ EP	14 28 29.1
TUC EP	14 28 33.7
BOZ E(P)	14 30 06.5
BMO E(P)	14 30 23.9
COL EP	14 33 40.0
MAR 24	
NEW EP	14 25 47.0
ES	26 26.0
MAR 24	
H-15 38 48.3	
6.7S 75.0W	
h ABOUT 138KM	
ALQ IP D	15 47 38.0
EpP	48 11.5
TUC IP D	15 47 43.0
EpP	48 17.0
EUR IP D	15 48 39.8
IPCP	49 25.3
BOZ EP	15 48 51.5
BMO EP	15 49 06.9
HHM E(P)	15 49 14.0
NEW IP	15 49 21.7
E	49 45.0
COL IP	15 51 28.1
BRW EP	15 51 49.4
EpP	52 25.7
MAR 24	
COL IP	15 52 04.8
MAR 24	
EUR EP	17 14 15.7
MAR 24	
BMO IP	17 30 42.7
MAR 24	
H-17 38 13.8	
46.5N 7.4E	
h ABOUT 13KM	
BMO EP	17 50 09.5
MAR 24	
H-17 39 58.0	
11.6S 165.5E	
h ABOUT 33KM	
COL EP	17 52 25.0
EUR EP	17 52 49.7
MAR 24	
NEW EP	18 04 26.0
MAR 24	
H-18 29 22.3	
27.9N 142.8E	
h ABOUT 33KM	
COL E(P)	18 39 03.0
BMO EP	18 41 15.9
E	41 35.4
EUR E(P)	18 41 44.0
MAR 24	
EUR IP	19 56 13.4
MAR 24	
SJG IP D	21 25 26.7
IS	25 51.5
MAR 24	
EUR IP	22 01 34.0
MAR 24	
BUT EP	22 42 01.5
BOZ EPN	22 42 14.7
E	42 25.0
EL	42 43.7
MAR 24	
HHM EPN	22 43 32.0
E	43 42.0
EL	44 28.4
NEW EP	22 43 50.0
ES	44 45.0
EUR E(P)	22 44 09.5
ALQ E(P)	22 45 07.5
E(L)	48 12.0
MAR 24	
PMR IP	22 56 43.1
MAR 24	
H-22 59 49.3	
20.3S 179.1W	
h ABOUT 679KM	
GUA EP	23 07 38.0
EUR IP	23 11 10.8
TUC IP	23 11 11.7
E	11 23.0
BMO IP	23 11 20.9
E	11 31.9
COL IP	23 11 30.9
ALQ EP	23 11 31.6
E	11 42.0
FGU IP	23 11 35.2
I	11 46.5
BOZ EP	23 11 37.5
E	11 48.5
MAR 24	
ALQ EP	23 04 28.6
MAR 24	
SLC E(P)	23 11 44.0
E	12 03.6
MAR 24	
COL EP	23 13 50.0
MAR 24	
BOZ E(P)	23 13 58.5
MAR 24	
BHP IP C	23 50 41.3
IS	51 06.9
MAR 25	
EUR IP	00 34 11.0
MAR 25	
BCN IPND	00 48 31.2
MAR 25	
EUR EP	01 06 06.0

Date and Station	Phase	(GCT) h m s
MAR 25		
NEW	IP	02 14 02.8
	IS	14 23.0
MAR 25		
BMO	E(P)	03 38 33.1
MAR 25		
H-03 46 08.9		
34.7N 71.1E		
h ABOUT 43KM		
COL	EP	03 57 53.0
MAR 25		
H-04 06 52.6		
36.5N 138.4E		
h ABOUT 33KM		
COL	E(P)	04 15 50.5
MAR 25		
COL	EP	04 40 54.0
MAR 25		
H-05 21 48.7		
44.7N 112.0W		
h ABOUT 33KM		
BOZ	EPN	05 22 03.5
	I	22 06.0
	EL	22 20.0
BZM	E(P)	05 22 12.0
BUT	EPN	05 22 12.5
	EL	22 32.5
FGU	E(P)	05 22 56.0
	E	23 01.9
	ELG	23 56.9
HHM	E(P)	05 22 56.4
	E	23 01.4
	EL	23 52.0
NEW	IP	05 23 03.8
	ES	24 01.0
EUR	E(P)	05 23 20.6
	E	23 29.7
	EL	24 40.3
MAR 25		
H-05 57 58.6		
49.8N 78.1E		
h ABOUT 0KM		
BRW	IP C	06 07 18.2
	EPCP	08 26.5
COL	IP	06 08 10.0
PMR	EP	06 08 26.3
SLC	E(P)	06 10 00.0
NEW	IP	06 10 19.0
HHM	EP	06 10 20.0
BOZ	EP	06 10 35.2
BMO	EP	06 10 35.7
FGU	IP D	06 11 03.4
EUR	IP	06 11 04.1
SLD	IP D	06 11 11.9
ALQ	EP	06 11 28.8
MAR 25		
COL	EP	06 46 42.0
MAR 25		
H-07 35 16.1		
24.9N 122.4E		
h ABOUT 119KM		
COL	EP	07 46 02.0
NEW	IP	07 48 03.6
	EpP	48 36.0
HHM	EP	07 48 11.0
	EpP	48 43.4
BMO	IP	07 48 13.2
	IpP	48 46.7
EUR	IP	07 48 33.5
MAR 25		
NEW	EP	08 32 43.0
MAR 25		
EUR	EP	09 34 13.0
MAR 25		
PMR	IP	12 16 42.0
	IS	17 11.3
MAR 25		
H-12 18 24.8		
23.0S 66.5W		
h ABOUT 204KM		
ALQ	IP D	12 29 10.5
	EpP	30 05.5
TUC	EP	12 29 13.0
	EpP	30 08.7
EUR	IP	12 29 59.6
SLD	EP	12 30 08.4
BOZ	EP	12 30 10.7
BMO	I(P)	12 30 33.2
	E	31 21.8
NEW	EP	12 30 34.0
MAR 25		
PMR	EP	12 50 15.2
	ES	50 43.3
MAR 25		
H-14 19 16.3		
8.0S 154.1E		
h ABOUT 39KM		
EUR	EP	14 32 34.5
MAR 25		
H-14 29 14.3		
7.4N 79.8W		
h ABOUT 40KM		
BHP	IP D	14 29 40.5
	IS	30 14.5
SJG	IP C	14 33 14.8
	ES	36 41.0
	IPCP	37 37.0
ALQ	EP D	14 36 20.0
TUC	E(P)	14 36 31.3
SLC	E(P)	14 37 19.0
EUR	IP	14 37 32.5
BOZ	EP	14 37 42.0
SLD	E(P)	14 37 52.4
BMO	EP	14 38 01.8
HHM	EP	14 38 07.4
NEW	EP	14 38 18.0
COL	EP	14 40 48.0
MAR 25		
H-14 33 33.3		
7.1N 80.1W		
h ABOUT 33KM		
ALQ	EP	14 40 40.4
EUR	EP	14 41 52.5
MAR 25		
NEW	EP	14 38 51.8
MAR 25		
COL	IP	15 01 42.1
MAR 25		
BHP	IP D	15 37 19.1
	ES	37 43.5
MAR 25		
BHP	IP D	15 51 03.9
	ES	51 27.4
MAR 25		
H-16 25 12.3		
45.1N 151.7E		
h ABOUT 7KM		
COL	IP	16 32 33.5
EUR	E(P)	16 35 58.7
MAR 25		
BHP	IP D	17 25 03.5
	IS	25 28.9
MAR 25		
BHP	IP D	17 26 28.3
	IS	26 51.7
MAR 25		
ALQ	E(P)	17 53 49.0
	E	54 08.5
MAR 25		
ALQ	EP	18 34 33.8
MAR 25		
SLC	EP	18 44 08.5
	E	44 27.0
	E	44 36.3
EUR	IP	18 44 50.8
MAR 25		
H-20 32 01.7		
8.3S 71.3W		
h ABOUT 583KM		
EUR	IP	20 41 34.5
BMO	EP	20 41 59.8
COL	IP	20 44 09.0
MAR 25		
EUR	E(P)	20 55 42.5
	E	56 06.1
TUC	E(P)	20 56 06.0
MAR 25		
BOZ	EPN	21 31 53.7
	EL	32 06.0
MAR 25		
H-22 26 27.4		
28.6N 60.4E		
h ABOUT 43KM		
COL	EP	22 38 56.0
MAR 25		
ALQ	E(P)	22 26 57.5
	E	27 07.2
	EL	27 46.5
MAR 25		
ADK	EP	22 31 47.5
	ES	32 19.5
MAR 25		
BOZ	E(P)	22 39 13.5
EUR	IP	22 39 20.8
MAR 25		
H-22 47 58.4		
45.3N 151.6E		
h ABOUT 43KM		
GUA	E(P)	22 54 33.0
	ES	59 44.0
PMR	IP	22 55 08.6
COL	EP	22 55 13.0
	EpP	55 27.2
	I	56 06.3
	ES	23 01 07.0
	EL	03 48.0
SIT	E(P)	22 56 19.0

Date and Station	Phase (GCT)
	h m s
NEW IP	22 57 54.6
EpP	58 09.0
HHM EP	22 58 06.4
E(pP)	58 21.4
BMO IP	22 58 08.2
BUT EP	22 58 21.0
EpP	58 34.0
SLD EP	22 58 25.0
BOZ EP	22 58 25.5
EpP	58 38.0
EUR IP	22 58 35.5
SLC EP	22 58 46.0
MAR 25	
BRW EP	22 54 21.3
MAR 25	
H-22 54 33.4	
31.4N 116.2W	
h ABOUT 33KM	
EUR IP	22 56 32.5
ALQ E(P)	22 56 44.0
EL	59 29.2
MAR 25	
TUC E(P)	23 32 30.0
BMO E(P)	23 32 44.6
COL IP	23 33 09.2
MAR 25	
SLD E(P)	23 39 21.6
EUR E(P)	23 39 53.4
I	40 09.5
MAR 25	
PMR IP	23 51 57.4
MAR 25	
BHP IP D	23 56 47.3
IS	57 11.7
MAR 26	
COL EP	00 06 12.0
MAR 26	
H-01 30 56.5	
35.9N 140.1E	
h ABOUT 42KM	
BMO E(P)	01 42 26.4
EUR EP	01 42 49.0
MAR 26	
BHP IP D	01 52 09.0
IS	52 32.3
MAR 26	
FGU IP C	02 10 17.8
IS	10 37.4

Date and Station	Phase (GCT)
	h m s
MAR 26	
H-02 41 58.2	
20.6S 69.2W	
h ABOUT 118KM	
EUR E(P)	02 53 23.9
BMO EP	02 53 48.6
EpP	54 18.8
MAR 26	
H-03 08 28.4	
27.3N 67.5E	
h ABOUT 33KM	
COL E(P)	03 20 59.0
MAR 26	
H-04 24 12.4	
64.1N 146.8W	
h ABOUT 18KM	
COL IP D	04 24 28.8
IS	24 42.8
PMR IP	04 24 55.5
BRW EP	04 26 10.7
EL	27 42.8
NEW EP	04 29 14.0
HHM EP	04 29 24.8
BMO E(P)	04 29 30.2
BOZ E(P)	04 29 54.7
EUR IP	04 30 27.9
SLD EP	04 30 32.3
ALQ EP	04 31 32.5
TUC E(P)	04 31 38.0
MAR 26	
SIT E(P)	04 29 09.5
MAR 26	
SLD IP	05 36 45.0
I(S)	36 48.8
MAR 26	
EUR E(P)	05 38 11.9
EL	39 15.5
MAR 26	
EUR IP	06 59 49.2
MAR 26	
FGU EPN	07 03 10.6
E	03 16.4
ILG	03 41.9
MAR 26	
COL EP	07 28 58.0
MAR 26	
H-07 46 27.0	
2.8N 129.1E	
h ABOUT 143KM	
BMO E(P)	07 59 17.0

Date and Station	Phase (GCT)
	h m s
MAR 26	
H-07 51 08.5	
51.5N 174.6E	
h ABOUT 33KM	
COL EP	07 56 17.0
BRW E(P)	07 56 18.9
NEW EP	07 59 05.0
BOZ E(P)	07 59 39.0
EUR EP C	07 59 49.2
E	08 00 59.3
TUC E(P)	08 00 48.0
EpP	00 58.2
MAR 26	
PMR IP	08 01 20.1
MAR 26	
PMR EP	10 14 01.8
MAR 26	
BMO E(P)	12 48 01.0
BOZ EP	12 48 16.7
MAR 26	
TUC E(P)	13 23 46.5
MAR 26	
BMO EP	14 32 39.5
EUR IP	14 32 55.0
MAR 26	
SJG EP	14 42 07.5
IS	42 40.7
MAR 26	
ALQ E(P)	14 56 01.0
E	56 10.5
E	56 22.0
MAR 26	
COL EP	16 11 22.0
MAR 26	
ALQ EP	16 21 21.4
E	21 30.0
MAR 26	
H-16 22 09.5	
27.7N 139.8E	
h ABOUT 449KM	
COL EP	16 31 17.0
NEW IP	16 33 21.0
EpP	35 04.0
BMO EP	16 33 29.0
HHM EP	16 33 30.8
BOZ EP	16 33 44.0
EUR IP	16 33 47.5
ALQ EP	16 34 30.2

Date and Station	Phase (GCT)
	h m s
MAR 26	
H-16 30 31.8	
3.0N 77.8W	
h ABOUT 76KM	
BHP IP D	16 32 01.0
ES	32 25.2
SJG EP	16 34 48.5
E	35 11.8
ALQ EP	16 38 13.8
TUC E(P)	16 38 22.2
EUR IP	16 39 22.4
BOZ EP	16 39 32.7
SLD EP	16 39 38.3
BMO E(P)	16 39 50.6
HHM EP	16 39 58.5
COL EP	16 42 29.0
MAR 26	
BMO EP	16 35 08.8
E	35 16.3
MAR 26	
H-17 00 32.9	
5.5N 126.3E	
h ABOUT 83KM	
COL EP	17 12 50.0
SJG EP'	17 20 34.0
MAR 26	
SJG EP	17 07 32.8
ES	08 25.7
MAR 26	
ALQ E(P)	18 09 38.0
MAR 26	
EUR EP	18 31 31.6
MAR 26	
H-20 35 06.8	
7.4S 67.8E	
h ABOUT 33KM	
EUR IP'	20 54 49.1
SLD EP'	20 54 53.5
MAR 26	
EUR IP	21 11 15.1
MAR 26	
H-21 27 11.5	
34.4N 139.0E	
h ABOUT 33KM	
COL E(P)	21 36 23.8
BMO EP	21 38 51.1

Date and Station	Phase	(GCT) h m s
MAR 26		
ALQ	E(P)	22 09 06.0
	E	09 18.0
	E(L)	10 09.0
MAR 26		
ALQ	E(P)	22 28 12.0
	E	28 19.0
	E(L)	28 59.0
MAR 26		
H-22 39 01.4		
9.3S 148.6E		
h ABOUT 14KM		
PMR	EP	22 51 40.1
COL	IP	22 51 49.0
BRW	EP D	22 51 52.8
SLD	E(P)	22 52 30.0
BMO	EP	22 52 45.5
NEW	EP	22 52 46.9
EUR	EP	22 52 48.0
SJG	IP'	22 58 39.2
MAR 26		
H-23 56 48.2		
10.4S 73.9W		
h ABOUT 133KM		
SJG	IP D	24 02 39.3
	I	02 45.5
ALQ	E(P)	24 06 06.0
	EpP	06 38.0
EUR	E(P)	24 07 04.0
BOZ	EP	24 07 17.5
	IPCP	07 51.0
BMO	EP	24 07 31.7
	E(PCP)	08 05.6
NEW	EP	24 07 46.0
	E	08 18.0
MAR 27		
TUC	E(P)	00 06 41.0
EUR	IP	00 07 37.8
SLD	E(P)	00 07 48.7
MAR 27		
BOZ	EPN	00 30 39.0
	EL	30 46.0
MAR 27		
EUR	E(P)	04 18 31.5
BMO	EP	04 19 02.4
MAR 27		
EUR	EP	05 03 52.4
MAR 27		
EUR	E(P)	05 10 50.8
	I	10 57.1
	IL	11 30.1
MAR 27		
EUR	EP	07 55 16.2
MAR 27		
H-08 09 45.8		
15.6N 80.1E		
h ABOUT 17KM		
EUR	IP'	08 28 45.1
MAR 27		
H-08 26 34.6		
8.9S 71.4W		
h ABOUT 605KM		
SJG	IP C	08 31 34.3
	IpP	33 05.8
	IsP	34 18.5
	IS	35 31.8
	EsS	36 42.7
	ISS	38 15.0
	S	40 32.0
CSC	IP	08 33 49.0
	E(PCP)	35 21.8
	ES	39 35.0
ALQ	EP D	08 35 10.5
	EPCP	36 04.4
	EpP	37 03.0
	ESCP	39 06.0
	ES	42 12.0
TUC	EP	08 35 16.0
	IPCP	36 07.5
	IpP	37 12.0
	EsP	38 19.5
	ESCP	39 08.0
	ES	42 18.4
GCA	IP	08 35 42.0
	E	36 21.8
	EpP	37 39.0
FGU	EP D	08 35 51.0
	IP	36 06.0
	IpP	37 48.8
	ES	43 24.0
	EP'P'	09 04 44.3
SLC	EP	08 35 59.0
	EPCP	36 32.0
	EpP	38 00.0
	EPP	38 45.0
EUR	IP D	08 36 08.7
	IpP	38 06.7
	EPP	38 50.9
	ES	44 00.3
	EP'P'	09 04 55.7
	SKPP'	07 14.0
BOZ	IP C	08 36 19.0
	IpP	38 18.0
SLD	IP D	08 36 21.0
	EpP	38 19.0
	E(S)	44 21.7
	EP'P'	09 04 50.5
BUT	EP	08 36 23.7
	EpP	38 24.2
HHM	IP	08 36 33.4
	EpP	38 33.4
BMO	EP	08 36 34.0
	EpP	38 34.8
NEW	EP	08 36 45.0
	EPCP	37 13.0
COL	EP	08 38 42.3
	IpP	40 51.0
BRW	EP	08 39 02.1
GUA	EP'	08 45 04.0
MAR 27		
H-08 58 25.5		
38.5N 116.6E		
h ABOUT 59KM		
BRW	EP D	09 07 36.9
COL	IP D	09 08 14.6
	ES	16 17.0
	EL	22 45.0
PMR	EP	09 08 19.7
NEW	IP	09 10 37.0
	IpP	10 54.0
HHM	IP	09 10 40.0
	IpP	10 55.4
BMO	EP	09 10 50.6
BUT	EP	09 10 56.0
	EpP	11 10.2
BOZ	EP	09 11 00.0
	EpP	11 15.3
SLD	EP D	09 11 11.3
	I	11 29.1
EUR	IP D	09 11 15.1
	I	11 32.4
SLC	EP	09 11 19.0
	E	11 35.5
FGU	EP D	09 11 23.9
ALQ	E(P)	09 11 52.2
TUC	E(P)	09 11 53.0
SJG	EP'	09 17 36.5
MAR 27		
HHM	E(P)	09 04 34.0
	E	04 42.1
NEW	EP	09 04 37.0
BOZ	E(P)	09 04 42.5
	E	04 54.5
ALQ	E(P)	09 04 48.0
	E	11 52.2
EUR	IP	09 04 56.0
MAR 27		
GUA	EP	09 10 48.0
MAR 27		
EUR	IP	09 37 22.7
MAR 27		
H-10 01 41.7		
16.4S 168.1E		
h ABOUT 5KM		
SLD	EP	10 14 20.5
PMR	EP	10 14 21.5
COL	EP	10 14 31.0
	ES	25 21.0
	EL	38 48.0
EUR	IP	10 14 43.6
BMO	EP	10 14 48.0
TUC	EP	10 14 51.0
	E	14 57.4
	ES	26 02.5
NEW	EP	10 14 53.0
BOZ	E(P)	10 15 07.5
ALQ	EP	10 15 11.5
MAR 27		
GUA	EP	10 09 18.0
	ES	15 59.0
MAR 27		
HHM	E(P)	10 29 58.1
MAR 27		
H-11 21 43.9		
36.1N 141.3E		
h ABOUT 33KM		
COL	E(P)	11 30 33.0
	E	30 42.0
BOZ	E(P)	11 33 32.0
EUR	E(P)	11 33 33.5
MAR 27		
H-11 39 33.5		
35.6N 139.0E		
h ABOUT 39KM		
COL	EP	11 48 35.5
NEW	IP	11 50 58.5
HHM	E(P)	11 51 05.0
BMO	EP	11 51 09.6
BOZ	E(P)	11 51 24.7
EUR	IP	11 51 32.8

Date and Station	Phase (GCT)
	h m s
MAR 27	
BMO E(P)	12 50 43.6
MAR 27	
SJG EP	13 06 14.5
I	06 15.9
ILG	06 49.5
MAR 27	
H-14 40 13.2	
12.2N 87.7W	
h ABOUT 54KM	
EUR EP	14 47 20.8
BOZ EP	14 47 36.5
E	47 54.0
BMO EP	14 47 53.3
NEW EP	14 48 11.0
MAR 27	
EUR IP	18 47 24.2
MAR 27	
H-20 14 43.5	
16.6S 168.4E	
h ABOUT 17KM	
EUR IP	20 27 42.2
BMO E(P)	20 27 46.5
MAR 27	
H-22 18 01.4	
22.6S 67.4W	
h ABOUT 155KM	
BMO EP	22 30 01.1
E	30 27.1
HHM E(P)	22 30 01.1
MAR 27	
EUR E(P)	22 25 06.5
MAR 27	
EUR IP	23 01 00.5
MAR 28	
H-00 04 27.6	
38.5N 25.3E	
h ABOUT 33KM	
BMO E(P)	00 17 34.6
MAR 28	
EUR E(P)	00 26 57.0
MAR 28	
H-00 30 40.7	
36.7N 71.3E	
h ABOUT 237KM	
BMO EP	00 43 51.2
E	43 56.9
MAR 28	
ALQ EP	00 42 09.0
BOZ E(P)	00 43 21.5
E	43 35.3

Date and Station	Phase (GCT)
	h m s
MAR 28	
EUR EP	00 54 49.5
MAR 28	
BOZ E(P)	01 08 27.5
MAR 28	
SJG EP	01 56 12.7
IS	56 46.0
EUR IP	02 04 48.8
SLD E(P)	02 04 56.5
MAR 28	
EUR EP	02 57 02.8
MAR 28	
H-03 48 59.1	
35.5N 111.7W	
h ABOUT 5KM	
GCA IP	03 49 25.5
I	49 27.5
IS	49 44.5
TUC E(P)	03 49 53.5
EL	50 42.2
ALQ E(P)	03 50 07.0
EL	51 13.5
EUR E(P)	03 50 34.6
MAR 28	
GCA EP C	04 34 09.0
I	34 15.2
ILG	35 41.5
EUR EP	04 34 20.5
I	34 25.6
IS	34 52.4
MAR 28	
H-04 51 32.2	
5.0S 81.0W	
h ABOUT 60KM	
ALQ IP	04 59 56.0
EpP	05 00 09.0
E	00 23.0
EUR EP	05 00 57.9
BOZ E(P)	05 01 16.0
IpP	01 28.5
BMO E(P)	05 01 29.1
EpP	01 43.6
MAR 28	
H-05 01 43.7	
31.2S 177.9W	
h ABOUT 31KM	
EUR EP	05 14 44.9
MAR 28	
PMR IP	05 06 11.9
MAR 28	
EUR EP	05 07 53.3
EL	08 27.7

Date and Station	Phase (GCT)
	h m s
MAR 28	
H-06 10 13.5	
14.0S 166.4E	
h ABOUT 75KM	
COL E(P)	06 22 49.6
MAR 28	
COL E(P)	06 52 49.5
MAR 28	
PMR E(P)	07 03 31.4
MAR 28	
SLD E(P)	08 19 39.5
E	19 43.5
IS	20 03.3
EUR E(P)	08 20 54.0
EL	21 55.5
MAR 28	
H-08 24 01.0	
43.0N 144.8E	
h ABOUT 59KM	
COL IP	08 31 52.9
EUR EP	08 35 09.0
MAR 28	
TUC E(P)	08 39 34.5
MAR 28	
TUC E(P)	09 09 34.5
MAR 28	
SLD EP C	09 51 19.5
MAR 28	
TUC E(P)	10 21 49.0
MAR 28	
SJG E(P)	10 53 36.2
MAR 28	
PMR E(P)	12 05 25.2
MAR 28	
H-12 23 58.1	
37.4N 118.5W	
h ABOUT 9KM	
SLD IP C	12 24 35.2
E(S)	24 55.8
IL	25 02.7
EUR E(P)	12 24 45.1
I	24 50.2
IL	25 29.5
BCN E(P)	12 24 59.1
E	25 02.1
EL	25 44.1
MAR 28	
H-13 52 39.3	
20.4N 145.5E	
h ABOUT 99KM	
BMO EP	14 04 44.5
MAR 28	
EUR IP	14 56 09.0

Date and Station	Phase (GCT)
	h m s
MAR 28	
H-15 49 22.8	
50.6N 3.9E	
h ABOUT 21KM	
BMO E(P)	16 00 53.1
MAR 28	
ALQ E(P)	16 19 10.2
E(L)	19 35.0
MAR 28	
NEW EP	17 32 32.0
MAR 28	
ALQ E(P)	18 30 51.5
E(L)	31 17.0
MAR 28	
ALQ E(P)	19 16 40.0
E(L)	17 11.0
MAR 28	
H-19 32 26.6	
17.1N 122.5E	
h ABOUT 62KM	
GUA EP	19 37 15.0
E(S)	41 26.0
BRW EP	19 43 39.5
COL EP	19 44 01.0
NEW E(P)	19 45 38.0
BMO E(P)	19 45 58.6
MAR 28	
EUR IP	19 50 08.1
MAR 28	
COL EP	20 17 34.0
MAR 28	
H-20 31 35.4	
45.2N 109.9W	
h ABOUT 33KM	
BOZ IPN	20 31 56.4
IL	32 10.0
BZM EP	20 31 56.5
BOZ EPN	20 31 57.2
BUT EP	20 32 09.6
HHM EPN	20 32 44.5
I	32 54.5
IL	33 48.2
BMO EPN	20 32 49.1
NEW EP	20 33 02.0
ES	34 04.0
MAR 28	
BUT EPN	20 32 37.0
MAR 28	
H-21 20 01.6	
30.4S 177.5W	
h ABOUT 33KM	

Date and Station	Phase	(GCT)
		h m s
BMO	E(P)	21 33 11.8
MAR 28		
ALQ	E(P)	21 49 18.4
	E(L)	49 54.0
MAR 28		
TUC	E(P)	22 12 54.0
MAR 28		
WSC	E(P)	22 32 43.0
MAR 28		
ALQ	E(P)	23 30 38.0
MAR 28		
H-23 50 13.4		
29.7N 138.8E		
h ABOUT 410KM		
COL	EP	23 59 15.0
NEW	EP	24 01 24.0
BMO	EP	24 01 32.5
BOZ	E(P)	24 01 48.0
	E	01 53.2
EUR	E(P)	24 01 51.5
MAR 29		
H-01 07 23.1		
4.8S 103.2E		
h ABOUT 83KM		
NEW	EP'	01 26 16.0
HHM	EP'	01 26 17.6
BMO	EP'	01 26 19.5
BOZ	EP'	01 26 25.3
MAR 29		
H-01 48 41.7		
30.4S 177.6W		
h ABOUT 60KM		
TUC	E(P)	02 01 31.0
EUR	IP	02 01 36.0
BMO	EP	02 01 48.0
COL	EP	02 02 09.0
MAR 29		
NEW	EP	02 09 02.0
MAR 29		
H-04 47 10.6		
6.1S 150.4E		
h ABOUT 50KM		
COL	EP	04 59 34.0
MAR 29		
ALQ	E(P)	04 56 30.0
MAR 29		
BMO	EP	05 56 20.7

Date and Station	Phase	(GCT)
		h m s
MAR 29		
TUC	E(P)	06 07 33.0
ALQ	E(P)	06 07 54.0
MAR 29		
H-06 53 10.2		
27.4N 100.3E		
h ABOUT 33KM		
COL	EP	07 04 45.0
MAR 29		
H-09 31 31.1		
7.3S 68.0E		
h ABOUT 33KM		
BOZ	EP'	09 51 02.0
EUR	IP'	09 51 15.5
TUC	EP'	09 51 22.5
	E	51 33.1
ALQ	EP'	09 51 25.0
MAR 29		
BCN	EP	09 52 25.1
MAR 29		
H-10 01 13.1		
44.4N 148.5E		
h ABOUT 52KM		
COL	EP	10 08 44.5
	EPP	08 58.5
NEW	E(P)	10 11 17.0
BOZ	EP	10 11 54.6
	E	12 10.5
MAR 29		
H-10 33 38.0		
2.4S 138.5E		
h ABOUT 33KM		
PMR	E(P)	10 46 05.1
BRW	E(P)	10 46 10.1
COL	E(P)	10 46 12.0
MAR 29		
COL	IP	11 51 18.6
MAR 29		
SJG	IP D	12 05 54.9
	IS	06 08.0
MAR 29		
SJG	IP D	12 21 48.7
	IS	22 02.2
MAR 29		
H-12 49 15.3		
16.4S 168.3E		
h ABOUT 7KM		
COL	E(P)	13 02 04.2
EUR	IP	13 02 17.0
NEW	EP	13 02 26.0

Date and Station	Phase	(GCT)
		h m s
MAR 29		
H-13 12 52.9		
16.5S 168.2E		
h ABOUT 33KM		
COL	EP	13 25 38.0
EUR	IP	13 25 50.5
BMO	EP	13 25 54.7
TUC	EP	13 25 57.8
NEW	EP	13 26 00.0
MAR 29		
EUR	EP	14 32 56.5
MAR 29		
NEW	EP	16 15 22.0
MAR 29		
H-16 51 49.4		
2.5N 128.9E		
h ABOUT 128KM		
PMR	E(P)	17 04 08.5
MAR 29		
H-17 09 23.7		
20.2S 179.0W		
h ABOUT 636KM		
GUA	EP	17 17 15.0
EUR	IP	17 20 48.2
TUC	EP	17 20 49.3
BMO	EP	17 20 58.2
COL	IP	17 21 07.5
ALQ	IP	17 21 09.4
BOZ	EP	17 21 15.5
MAR 29		
COL	EP	17 23 28.0
MAR 29		
BOZ	EPN	17 58 39.5
	E	58 49.2
	EL	59 12.5
MAR 29		
BOZ	EP	18 06 47.5
	I	07 22.5
FGU	EPN	18 06 47.9
	I	07 55.1
	ILG	07 23.0
MAR 29		
NEW	EP	18 12 41.0
	E	13 05.0
MAR 29		
EUR	IP	19 41 42.9
MAR 29		
H-19 53 57.9		
15.3S 172.9W		
h ABOUT 33KM		

Date and Station	Phase	(GCT)
		h m s
TUC	E(P)	20 05 44.0
EUR	EP	20 05 44.0
BMO	EP	20 05 55.9
NEW	EP	20 06 07.0
ALQ	EP	20 06 09.0
COL	EP	20 06 15.3
BOZ	EP	20 06 16.0
HHM	E(P)	20 06 17.1
MAR 29		
H-22 16 26.7		
24.0S 66.1W		
h ABOUT 195KM		
EUR	EP	22 28 08.0
MAR 29		
ALQ	E(P)	22 28 44.2
	E	29 24.0
MAR 29		
BUT	EPN	23 01 58.0
BOZ	EPN	23 02 11.0
	I	02 13.5
	IL	02 20.5
MAR 29		
HHM	EPN	23 02 43.1
	EL	03 19.6
MAR 30		
BMO	E(P)	01 44 49.5
MAR 30		
NEW	EP	02 04 07.0
MAR 30		
H-02 08 03.2		
11.1S 115.4E		
h ABOUT 33KM		
GUA	IP	02 15 20.0
	ES	21 04.0
ADK	IP	02 20 40.0
	IS	31 11.3
KIP	EP	02 21 09.1
PMR	EP	02 21 56.1
COL	EP	02 22 00.8
	E	25 17.5
	EPP	26 16.7
	E	35 15.0
	E	38 18.0
NEW	EP'	02 26 56.0
BMO	IP'	02 26 59.8
	E(PP)	28 40.8
	E	29 06.8
TUC	EP'	02 27 00.6
	E	27 19.0

Date and Station	Phase (GCT)
	h m s
HHM EP'	02 27 01.9
BUT EP'	02 27 04.1
EUR IP'D	02 27 05.8
IPP	29 01.0
E	36 34.0
E	38 48.0
BOZ EP'	02 27 07.0
SLC EP'	02 27 11.2
BCN EP'	02 27 11.8
E	27 20.3
EPP	29 11.3
ALQ EP'	02 27 15.5
E	27 23.0
EPP	29 54.0
WSC EP'	02 27 47.8
CSC EP'	02 27 51.0
F	28 10.0
SJG EP'	02 28 11.6
EPP	29 39.0
ESKS	33 23.0
MAR 30	
EUR IP	02 23 15.0
MAR 30	
BMO EP	03 00 17.0
HHM E(P)	03 00 19.4
EUR EP	03 00 34.5
MAR 30	
SJG E(P)	03 20 04.0
ES	21 52.5
MAR 30	
H-03 27 42.2	
85.9N 83.5E	
h ABOUT 33KM	
COL EP	03 33 31.0
NEW IP	03 36 03.2
BOZ EP	03 36 24.0
BMO EP	03 36 29.5
EUR IP	03 37 09.5
TUC E(P)	03 38 00.2
MAR 30	
H-03 34 46.1	
16.4S 168.1E	
h ABOUT 32KM	
COL EP	03 47 30.0
EUR IP	03 47 43.6
BMO EP	03 47 48.1

Date and Station	Phase (GCT)
	h m s
MAR 30	
PMR IP	04 04 39.7
IS	04 58.5
MAR 30	
BOZ EPN	04 10 41.5
EL	10 49.5
MAR 30	
BOZ EPN	04 48 14.0
EL	48 22.5
MAR 30	
H-05 30 44.3	
13.9N 89.5W	
h ABOUT 33KM	
BMO E(P)	05 38 08.0
MAR 30	
BMO E(P)	06 53 13.0
MAR 30	
COL EP	07 16 54.0
MAR 30	
H-08 41 08.6	
85.6N 85.8E	
h ABOUT 33KM	
COL E(P)	08 47 05.0
NEW IP	08 49 31.5
BOZ EP	08 49 52.0
BMO EP	08 49 57.7
EUR IP	08 50 37.9
MAR 30	
SLD E(P)	08 45 57.7
EL	47 29.2
EUP E(P)	08 46 32.2
MAR 30	
EUR IP	09 04 58.1
I	05 34.2
MAR 30	
GCA E(P)	10 52 04.3
I	52 13.2
ILG	52 46.7
EUR EP	10 52 44.5
MAR 30	
SLD EP	12 25 22.2
IS	25 34.2
MAR 30	
BHP IP C	12 35 36.9
IS	35 40.0
MAR 30	
H-13 09 49.4	
36.4N 71.0E	
h ABOUT 146KM	
COL EP	13 21 13.0

Date and Station	Phase (GCT)
	h m s
MAR 30	
H-15 32 38.3	
45.1N 149.1E	
h ABOUT 104KM	
COL IP	15 39 57.6
NEW IP	15 42 38.7
HHM EP	15 42 49.5
BMO EP	15 42 52.2
BOZ EP	15 43 09.5
EUR IP D	15 43 19.2
EPP	43 42.5
MAR 30	
COL EP	16 37 36.0
MAR 30	
SLD E(P)	17 50 03.2
IL	50 34.1
MAR 30	
BMO EP	17 58 36.7
MAR 30	
SLD E(P)	18 24 21.8
EL	24 54.6
MAR 30	
H-19 17 54.5	
54.0N 163.1W	
h ABOUT 14KM	
ADK EP	19 19 58.5
COL E(P)	19 20 55.0
EUR IP	19 24 46.2
MAR 30	
SLD EP	19 31 24.3
ES	31 36.9
MAR 30	
EUR E(P)	20 06 15.0
MAR 30	
ALQ EP	20 11 40.0
MAR 30	
GCA IP	20 25 32.5
ELG	25 52.0
ALQ E(P)	20 26 28.5
E	27 21.5
EUR E(P)	20 26 32.5
MAR 30	
EUR EP	20 57 15.0
MAR 30	
EUR EP D	21 15 31.4
MAR 30	
EUR E(P)	21 59 33.9
EL	22 00 22.5
MAR 30	
BMO EP	22 26 56.1

Date and Station	Phase (GCT)
	h m s
COL EP	22 27 07.0
ALQ E(P)	22 28 46.5
E	29 26.4
MAR 30	
COL EP	22 29 16.0
MAR 30	
BMO E(P)	22 29 09.0
MAR 30	
BOZ EPN	22 36 58.7
EL	37 10.5
MAR 30	
EUR E(P)	22 57 22.3
MAR 30	
EUR I(P)	23 04 36.2
MAR 30	
GUA EP	23 16 19.0
ES	20 23.0
MAR 30	
H-23 04 45.5	
16.9S 177.0W	
h ABOUT 33KM	
HON E(P)	23 12 46.0
ES	19 13.0
EL	22 10.0
BCN E(P)	23 16 46.4
E	16 50.9
E	17 03.2
TUC E(P)	23 16 51.8
EUR EP	23 16 53.2
BMO EP	23 17 03.5
E	17 45.7
SLC E(P)	23 17 12.6
EPP	17 22.6
NEW EP	23 17 13.0
COL EP	23 17 15.3
ES	27 43.0
EL	39 58.0
ALQ EP	23 17 15.5
ES	27 48.0
E	39 44.0
BUT E(P)	23 17 22.0
E	17 41.7
BOZ EP	23 17 22.5
MAR 31	
NEW EP	00 31 45.0
MAR 31	
NEW EP	00 32 35.0
MAR 31	
NEW IP	01 12 55.5
ES	13 34.0

Date and Station	Phase	(GCT) h m s
MAR 31		
COL	EP	01 22 16.0
MAR 31		
H-02 12 14.9		
52.1N 169.7W		
h ABOUT 7KM		
ADK	IP	02 13 22.9
	IS	14 14.3
PMR	EP	02 15 46.2
COL	EP	02 16 15.0
	E(S)	19 27.0
	EL	19 41.0
BRW	EP	02 16 50.6
SIT	IP	02 16 56.0
NEW	EP	02 18 55.0
BMO	EP	02 19 09.0
HHM	EP	02 19 11.3
	E	21 57.3
BOZ	EP	02 19 33.5
EUR	EP	02 19 41.0
BCN	EP	02 20 04.7
	E	20 19.1
	E	20 31.9
FGU	EP	02 20 08.0
TUC	EP	02 20 44.4
ALQ	EP	02 20 55.5
MAR 31		
H-04 18 31.3		
63.1N 148.5W		
h ABOUT 82KM		
PMR	IP	04 18 57.9
	ES	19 12.6
COL	IP	04 19 02.0
	IS	19 21.0
BRW	IP	04 20 37.4
	ES	22 17.7
ADK	IP	04 22 45.0
NEW	IP	04 23 28.1
	E	23 51.0
HHM	E(P)	04 23 39.8
BMO	EP	04 23 53.0
	E	24 22.5
EUR	IP D	04 24 39.7
	E	25 07.1
FGU	IP D	04 24 51.6
ALQ	EP	04 25 45.8
	E	26 13.0
TUC	E(P)	04 25 50.5
	E	26 19.1
MAR 31		
H-06 43 08.9		
38.9N 28.4W		
h ABOUT 33KM		
NEW	E(P)	06 53 15.0
BMO	EP	06 53 34.5
MAR 31		
H-06 54 38.9		
12.8N 123.0E		
h ABOUT 33KM		
COL	EP	07 06 36.0
MAR 31		
H-08 24 03.5		
2.3S 76.4W		
h ABOUT 177KM		
ALQ	EP	08 32 17.0
	EpP	32 51.0
BOZ	E(P)	08 33 32.5
MAR 31		
TUC	E(P)	08 48 39.5
MAR 31		
H-09 15 29.3		
51.8N 176.2E		
h ABOUT 49KM		
ADK	IP	09 16 35.8
	IS	17 28.4
PMR	EP	09 20 10.6
COL	EP	09 20 27.0
BRW	EP	09 20 31.4
EUR	E(P)	09 23 01.5
BMO	EP	09 23 27.3
BOZ	EP	09 23 49.3
BCN	E(P)	09 24 24.7
TUC	E(P)	09 25 00.2
ALQ	E(P)	09 25 13.0
MAR 31		
H-10 29 43.7		
36.0S 102.4W		
h ABOUT 33KM		
SJG	EP	10 40 12.9
	ES	48 57.0
TUC	E(P)	10 40 43.0
ALQ	EP	10 40 59.8
	EpP	41 10.0
	E	45 15.0
BCN	EP	10 41 10.6
	E	41 18.9
EUR	IP	10 41 31.5
BOZ	EP	10 42 00.0
	EpP	42 11.0
BMO	EP	10 42 01.5
NEW	EP	10 42 14.0
HHM	EP	10 42 14.2
MAR 31		
H-10 34 00.5		
35.6S 103.0W		
h ABOUT 33KM		
SJG	EP	10 44 32.8
TUC	E(P)	10 44 57.0
EUR	IP	10 45 44.0
BOZ	EP	10 46 14.3
	EpP	46 26.5
BMO	EP	10 46 14.9
NEW	EP	10 46 31.0
MAR 31		
BHP	EP	10 45 41.0
	IS	53 10.6
	EL	11 01 35.0
MAR 31		
ADK	IP	11 07 22.2
	IS	07 30.8
MAR 31		
PMR	IP	13 28 54.5
	IS	29 10.8
MAR 31		
SLD	IP D	17 19 13.5
	IS	19 18.7
MAR 31		
ALQ	E(P)	17 25 26.0
	E(L)	26 06.5
MAR 31		
ALQ	E(P)	18 07 02.4
	E(L)	07 37.5
MAR 31		
EUR	IP	20 01 08.5
MAR 31		
H-20 05 18.8		
15.3S 167.5E		
h ABOUT 131KM		
GUA	E(P)	20 12 22.0
	ES	17 44.0
PMR	EP	20 17 35.1
COL	IP	20 17 47.7
BCN	EP	20 18 02.3
	EpP	18 33.7
EUR	IP C	20 18 03.5
	IpP	18 33.1
	I	18 39.7
	I	18 56.1
	EPP	21 18.2
	PKKP	35 31.2
	EP'P'	43 45.6
BMO	EP	20 18 07.2
	EpP	18 36.9
TUC	EP	20 18 11.7
NEW	IP	20 18 13.1
BOZ	E(P)	20 18 26.0
ALQ	EP	20 18 30.0
	EPP	22 22.0
SJG	IP'C	20 24 11.2
	IP	27 19.7
MAR 31		
BMO	E(P)	20 54 10.5
MAR 31		
H-21 07 00.1		
34.3N 139.1E		
h ABOUT 33KM		
COL	EP	21 16 11.0
BMO	EP	21 18 41.3
BOZ	EP	21 18 55.7
EUR	EP	21 19 03.2
MAR 31		
ALQ	E(P)	21 32 37.5
	E(L)	33 15.0
MAR 31		
EUR	IP	21 57 38.0
BMO	E(P)	21 58 25.6
MAR 31		
H-22 32 03.5		
34.1N 139.3E		
h ABOUT 33KM		
BMO	E(P)	22 43 46.7
	E	44 14.9
MAR 31		
EUR	IP	23 28 46.0