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SEISMOLOGICAL BULLETIN

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March 4, 2011

SEISMOLOGICAL BULLETIN

1966

LIST OF SEISMOGRAPH STATIONS

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

Albuquerque, New Mexico (ALQ) WWNSS
Blue Mountains Observatory, Oregon (BMO)
**Balboa Heights, Canal Zone (BHP) WWNSS
The Panama Canal Company
Barrow, Alaska (BRW)
*Boulder City, Nevada (BCN)
Bureau of Reclamation
*Bozeman, Montana (BOZ) WWNSS
*Bozeman, Montana (BZM)
Montana State College
*Butte, Montana (BUT)
Montana School of Mines
Cedar Springs, California (CED)
California Department of Water Resources
*Chicago, Illinois (CHK)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL) WWNSS
*Columbia, South Carolina (CSC)
University of South Carolina
*Eureka, Nevada (EUR)
Eureka Corporation Limited
*Flaming Gorge, Utah (FGU)
Bureau of Reclamation
*Glen Canyon, Arizona (GCA)
Bureau of Reclamation
Guam, Mariana Islands (GUA) WWNSS
Honolulu, Hawaii (HON)
*Hungry Horse, Montana (HHM)
Bureau of Reclamation
Kipapa, Hawaii (KIP) WWNSS
Newport, Washington (NEW)
**Philadelphia, Pennsylvania (PHI)
The Franklin Institute
**Rapid City, South Dakota (RCD) WWNSS
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJG) WWNSS
San Luis Dam, California (SLD)
Bureau of Reclamation
Sitka, Alaska (SIT)
Tucson, Arizona (TUC) WWNSS
Ukiah, California (UKI)
International Latitude Observatory
Washington, D. C. (WAS)
Washington Science Center, Maryland (WSC)

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

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

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

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

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

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

STATION AND INSTRUMENTAL CONSTANTS (January 1966)

Station	Position	Instrument	Foundation and Elevation		T_o	T_g	T_s	V		Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
Albuquerque, N. Mex.	Log cos 9.91367	Std-SP	Granite	Z	1.0	0.75		400,000	17:1	60mm/min	Beginning	Up
J. Peterson	Lat. 34°56.5' N		1,853 m.	N	1.0	0.75		400,000				N
In Charge	Long. 106°27.5' W			E	1.0	0.75		400,000				E
		Std-LP		Z	15	100		3,000	Critical	15mm/min	Beginning	Up
				N	15	100		3,000				N
				E	15	100		3,000				E
		W-A, N&E		N	0.8			2,610	Near Crit.	60mm/min	Beginning	N
				E	0.8			2,670	Near Crit.			W
Balboa Heights, C. Z.	Los cos 9.99467	Std-SP	Basalt	Z	1.0	0.75		12,500	17:1	60mm/min	Beginning	Up
T. C. Hunter	Lat. 8°57'39"N		36 m.	N	1.0	0.75		12,500				N
In Charge	Long. 79°33'29"W			E	1.0	0.75		12,500				E
		Std-LP		Z	30	100		750	Critical	15mm/min	Beginning	Up
				N	30	100		750				N
				E	30	100		750				E
Barrow, Alaska	Log cos 9.50605	W-L, Z	Silt 25'	Z	1.1	0.5		75,000	Near Crit.	60mm/min	Beginning	Up
P. J. Clarke	Lat. 71°18'12"N		over sand									
In Charge	Long. 156°44 54"W											
Boulder City, Nev.	Log cos 9.90806	B, Paper Z	Fractured	Z	1.18	0.5	1.2	130,000	9:1	60mm/min	Beginning	Up
V. B. Uehling	Lat. 35°58'51"N	Mass 100 lb.	Monzonite									
In Charge	Long. 114°50 02"W	W-A, Film N&E	776 m.	N	0.8			2,800*	Near Crit.	15mm/min	Beginning	N
				E	0.8			2,800*	Near Crit.			E
Bozeman, Mont.	Log cos 9.84437	Spg, N&E	Alluvium	N	11.1	8.3		8,000	3:1	30mm/min	Beginning	N
A.J.M. Johnson	Lat. 45°40'01"N		glacial	E	10.9	7.6		8,000	11:1			E
In Charge	Long. 111°02'43"W	W-L, Z	drift and	Z	1.1	1.7		24,000	Under	60mm/min		Up
			lake deposit						damped			
			500' thick									
			over gneiss									
			and schist									
			1,490 m.									
Bozeman, Mont.	Log cos 9.84489	Std-SP	Granite	Z	1.0	0.75		400,000	17:1	60mm/min	Beginning	Up
A.J.M. Johnson	Lat. 45°36'00"N		gneiss	N	1.0	0.75		400,000				N
In Charge	Long. 111°38'00"W			E	1.0	0.75		400,000				E
		Std-LP		Z	15	100		3,000	Critical	15mm/min		Up
				N	15	100		3,000				N
				E	15	100		3,000				E
Blue Mountains, Oreg.	Log cos 9.85062	JM, Film	Granite	Z	1.25	0.33		750,000		16mm/min	Beginning	Up
L. Kerry	Lat. 44°50'56"N	Z, N&E	1,189 m.	N	1.25	0.33		750,000				N
In Charge	Long. 117°18'20"W			E	1.25	0.33		750,000				E
				Z	1.25	0.33		50,000				Up
				N	1.25	0.33		50,000				N
				E	1.25	0.33		50,000				E

Station	Position	Instrument	Foundation and Elevation		T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
1Blue Mountains, Oreg.		Geotech, Film		Z	20	100		1,000				Up
L. Kerry		LP Z, N&E		N	20	100		1,000				N
In Charge				E	20	100		1,000				E
				Z				15,000				Up
				N				8,000				N
				E				8,000				E
		Melton IB-Z		Z	2.5	0.64		50,000				Up
Butte, Mont.	Log cos 9.84167	W-A, N	Rhyolite 30	N	8.02			316	50:1	15mm/min	Beginning	S
S. W. Nile	Lat. 46°00.8" N	Mass 2g	m. thick									
In Charge	Long. 112°33.8" W	W-L, N&E	resting on	N	8.0	3.8		12,000	Near Crit.	30mm/min		N
			granite	E	8.0	3.8		12,00	Near Crit.			W
		B, Paper, Z	1,758 m.	Z	1.1	0.5		50,000	Near Crit.	60mm/min		Up
		Mass 100 lb.										
Ceder Springs, Calif.	Log cos 9.91715	B, Film Z,		Z	1.0	0.2		30,000	Critical	15mm/min	Beginning	D
Roy Sharria	Lat. 34°16'38"N	N&E	1,067 m.	N	1.0	0.2		28,500				S
In Charge	Long. 117°20'03"W			E	1.0	0.2		48,000				W
Chicago, Ill.	Log cos 9.87251	McC-R, N&E	Limestone	N	10			335		15mm/min	End	N
W. F. Schmidt	Lat. 41°47.3' N	Mass 2.5 kg.	180 m.	E	10			335				W
In Charge	Long. 87°36.0' W											
4College, Alaska	Log cos 9.62825	W-L, Film, Z	Granite	Z	1.19	0.45		40,000**	Near Crit.	15mm/min	Beginning	Up
J. B. Townshend	Lat. 64°51.6' N	B, Film, N&E	schist	N	1.36	0.45		50,000**	Near Crit.			N
In Charge	Long. 147°50.1 W		180	E	1.40	0.45		50,000**	Near Crit.			E
		W, N		N	9.5	12.0		1,000	Near Crit.			N
2College Outpost	Log cos 9.62757	Std-SP	Weathered	Z	1.0	0.75		100,000	17:1	60mm/min	Beginning	Up
J. B. Townshend	Lat. 64°54'00"N		schist	N	1.0	0.75		100,000				N
In Charge	Long. 147°47'30"W		320 m.	E	1.0	0.75		100,000				E
		Std-Lp		Z	15	100		1,500	Critical	15mm/min	Beginning	Up
				N	15	100		1,500				N
				E	15	100		1,500				E
		B, Z		Z	1.5	0.53		223,000	Near Crit.	60mm/min	Beginning	Up
Columbia, S. C.	Log cos 9.91857	W-L, Z, N&E	Consolidated	Z	1.1	1.6		24,000	Under	60mm/min	Beginning	Up
L. G. Barre	Lat. 34°00" N		sand 150'	N	8.0	4.1		13,000	damped	30mm/min		N
In Charge	Long. 81°02' W		thick over	E	8.0	4.1		13,000				E
			granite 94 m.									
Eureka, Nevada	Log cos 9.88751	B, Z	Dolomite	Z	1.08	0.55		200,000	Near Crit.	60mm/min	Beginning	Up
W. DePaoli	Lat. 39°29'00"N	Mass 100 lb.	bedrock									
In Charge	Long. 115°58'12"		2,178 m.									
Flaming Gorge, Utah	Log cos 9.87826	B-VR, Film, Z,	Quartzite	Z	1.0	0.2	0.3	56,000**	10:1	15mm/min	Beginning	Up
F. D. Lorde	Lat. 40°55'36"N	N&E	1,982 m.	N	1.0	0.2	0.3	59,000**				N
In Charge	Long. 109°23'20"W			E	1.0	0.2	0.3	58,000**				E
				Z	1.0	0.2	0.3	2,500	9:1			Up

Station	Position	Instrument	Foundation and Elevation		T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Trace "Up"
Glen Canyon, Ariz.	Log cos 9.90250	B-VR, Film, Z,	Navajo	Z	1.0	0.2	0.3	29,000**	11:1	15mm/min	Beginning	Up
V. E. Larson	Lat. 36°58'25"N	N&E	sandstone	N	1.0	0.2	0.3	27,000**	10:1			N
In Charge	Long. 111°35'35"W		1,339	E	1.0	0.2	0.3	29,000**	11:1			E
				Z	1.0	0.2	0.3	2,400	9:1			Up
Guam, Mariana Islands	Log cos 9.98776	Std-SP	Fractured	Z	1.0	0.75		6,250	17:1	60mm/min	Beginning	Up
W. S. Jacobs	Lat. 13°32'18"N		volcanic	N	1.0	0.75		6,250				N
In Charge	Long. 144°54'42"		tuff	E	1.0	0.75		6,250				E
		Std-LP	230 m.	Z	15	100		750	Critical	30mm/min	Beginning	Up
				N	15	100		750				N
				E	15	100		750				E
*Guam, Mariana Islands	Los cos 9.98768	W-L, Z	Volcanics	Z	1.01	1.6		5,000	Near Crit.	30mm/min	Beginning	Up
W. S. Jacobs	Lat. 13°35"16"N	Spg. N&E	147 m.	N	7.35	7.0		3,000	Near Crit.			N
In Charge	Long. 144°51'58"E			E	7.09	7.2		3,000	Near Crit.			E
3 *Honolulu, Hawaii	Los cos 9.96926	M-S, N&E	Coral	N	12			124	20:1	30mm/min	Beginning	N
F. J. Tucker	Lat. 21°18'13"N	Mass 1 lb.	3 m.	E	12			142	20:1			W
In Charge	Long. 158°05'44"W	HTL, Z		Z	0.5	0.5		20,000		60mm/min		Up
		Lamont, Z, N&E		Z	15	100		1,700		15mm/min		Up
				N	15	100		1,200				N
				E	15	100		1,400				E
Hungry Horse, Mont.	Log cos 9.82255	B-VR, Z	Argillaceous	Z	1.05	0.5		188,000	Near Crit.	60mm/min	Beginning	Up
R. E. Wendt	Lat. 48°20'58"N		limestone	Z	1.05	92			Near Crit.	30mm/min		Up
In Charge	Long. 114°01'39"W	W-L, N&E	(Belt series)	N	3.5	3.9		10,000	Near Crit.			N
			1,100 m.	E	3.4	4.1		10,000	Near Crit.			E
Kipapa, Hawaii	Log cos 9.96891	Std-SP	Basalt	Z	1.0	0.75		12,500	17:1	60mm/min	Beginning	Up
F. J. Tucker	Lat. 21°25'24"N		70 m.	N	1.0	0.75		12,500				N
In Charge	Long. 158°00'54"W			E	1.0	0.75		12,500				E
		Std-LP		Z	15	100		750	Critical	15mm/min	Beginning	Up
				N	15	100		750				N
				E	15	100		750				E
		B-VR, Z		Z	1.09	0.2		30,000	Near Crit.	60mm/min	Beginning	Up
Newport, Washington	Log cos 9.82328	Geotech Z	Quartzite	Z	1.0	0.2		100,000	6:1	60mm/min	Beginning	Up
R. A. Eppley	Lat. 48°15.8' N	#18300	762 m.									
In Charge	Long. 117°07.2' W	Spg. Z, N&E		Z	15	75		1,500	Critical	30mm/min	Beginning	Up
				N	15	75		1,500	Critical	30mm/min		N
				E	15	75		1,500	Critical	30mm/min		E
		W-A, N&E		N	0.8			2,800	Critical	30mm/min	Beginning	N
				E	0.8			2,800	Critical	30mm/min		E
*Philadelphia, Pa.	Log cos 9.88452	W, N&E	Cape May	N	9.0	5.4		1,400	15:1	20mm/min	End	S
J. H. Sharp	Lat. 39°57'32"N	Mass 500 g.	sand and	E	9.2	4.1		1,400	15:1			E
In Charge	Long. 103°12'30"W		gravel 5 m.									

Station	Position	Instrument	Foundation and Elevation		T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
Rapid City, S. Dak.	Los Cos 9.85637	Std-SP	Shale	Z	1.0	0.75		12,500	17:1	60mm/min	Beginning	Up
E. L. Tullis	Lat. 44 04'30"N		995	N	1.0	0.75		12,500				N
In Charge	Long. 103 13'30"W			E	1.0	0.75		12,500				E
		Std-LP		Z	15	100		750	Critical	15mm/min	Beginning	Up
				N	15	100		750				N
				E	15	100		750				E
Salt Lake City, Utah	Log cos 9.98732	McC-R, N&E	Bonneville	N	4.5	1.56	0.99	12,300	17:1	15mm/min	Beginning	N
A. M. Anderson	Lat. 40 45'55"N	Mass 2.5 kg.	Lake Beds	E	4.9	1.37	0.99	12,700	17:1			W
In Charge	Long. 111 50'54"W	W-L, Z	1,425 m.	Z	1.2	1.72	0.96	23,000	17:1	60mm/min		Up
San Juan, P. R.	Log cos 9.97794	Std-SP	Volcanic	Z	1.0	0.75		50,000	17:1	60mm/min	Beginning	Up
M. Vasquez	Lat. 18 06'42"N		breccia	N	1.0	0.75		50,000				N
In Charge	Long. 66 09'00"W		457 m.	E	1.0	0.75		50,000				E
		Std-LP		Z	30	100		750	Over	15mm/min	Beginning	Up
				N	30	100		750	damped			N
				E	30	100		750				E
Sitka, Alaska	Log cos 9.73544	W, N&E	Graywacke	N	7.5	16.5	8.2	1,000	20:1	15mm/min	Beginning	S
K. Cravens	Lat. 57 03'25"N	Mass 500 g	19 m.	E	7.5	13.2	8.2	1,000	5.5:1			E
In Charge	Long. 135 19'28"W	W-L, Z		Z	1.12	1.5		10,000				Up
San Luis Dam, Calif.	Log cos 9.90192	B-VR, Paper,	Franciscan	Z	1.0	0.2		100,000	Critical	60mm/min	Beginning	Up
B. Hendrix	Lat. 37 04'29"N	Z, N&E	formation	Z	1.0	0.2		3,000				Up
In Charge	Long. 121 13'14"W		443 m.	N	1.0	0.2		100,000				N
				E	1.0	0.2		100,000				E
Tucson, Arizona	Log cos 9.92696	Std-SP	Metamorphics	Z	1.0	0.75		200,000	17:1	60mm/min	Beginning	Up
M. L. Cleven	Lat. 32 18'35"N		985 m.	N	1.0	0.75		200,000				N
In Charge	Long. 110 46'56"W			E	1.0	0.75		200,000				E
		Std-LP		Z	15	100		1,500	Critical	30mm/min	Beginning	Up
				N	15	100		1,500				N
				E	15	100		1,000				E
*Tucson, Arizona	Log cos 9.92725	W-A, N&E	Caliche or	N	8.0			466	Critical	30mm/min	Beginning	S
M. L. Cleven	Lat. 32 14.8" N	Mass 2.3 g.	gravels 100-	E	8.0			457	Critical			E
In Charge	Long. 110 50.1' W	B, Z (LP)	300 m. thick	Z	1.0	77		50,000	Near Crit.	30mm/min		Up
		(SP)		Z	1.0	0.236		50,000		60mm/min		Up
Ukian, Calif.	Log cos 9.88968	McC-R, N&E	Alluvium 180	N	11.9			75	Near Crit.	30mm/min	Beginning	S
L. F. Caouette	Lat. 39 08' N	Mass 10 kg.	meters deep	E	11.6			75				W
In Charge	Long. 123 13' W	W-L, Z	199 m.	Z	1.1	1.4		24,000		60mm/min		Up
Washington, D. C.	Log cos 9.89117	W-L, Z	Recent alluvium	Z	1.5	4.0		10,000		30mm/min		Up
	Lat. 38 53'33"N	Visible	on schistose			Pen						
	Long. 77 01'59"W	Recorder	granite. 0 m.			0.5						

Station	Position	Instrument	Foundation and Elevation		T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
Washington Science Center, Maryland	Log cos 9.89020 Lat. 39 03'01.8"N Long.77 07'25.2"W	W-L, Z Visible Recorder	Pelitic Schist 120 m.	Z	1.9	1.0			15:1	60mm/min	Beginning	Up

*These stations operate visible recording seismographs of Coast and Geodetic Survey design similar to the one at Washington.

**Magnifications for film records are stated as read using an 8 power viewer.

B-Benioff Moving Coil, B-BV - Benioff Variable Reluctance, W - Wenner, McC-R - McComb-Rombert, W-A - Wood-Anderson, M-S - Milne-Shaw, HTL - Houston Technical Laboratory, Spg - Sprengnether, Std - World-Wide Network Standardized Seismograph, W-L - Wilson-Lamison.

1Ten S-P, J.M. seismometers form a triangular array, with elements 1 km apart, summation magnification of 700,000.

2The seismometer is in a vault about 2.1 miles northeast of main station. The signal is carried by cable to the main vault where it is fed into a galvanometer and recorded on photographic paper.

3Local quadrapartite network operated at Fort Barrette, Kaena Point, Mokapu Point, and Pupakea. Recordings are telemetered to Honolulu Observatory for use with the Seismic Sea-Wave Warning System.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
1	01 59 53*	16.3 S	73.4 W	33		NEAR COAST OF PERU.
1	06 36 26*	16.9 N	97.7 W	52	4.2	OAXACA, MEXICO.
1	08 41 55*	57.5 N	153.7 W	42	4.3	KODIAK ISLAND REGION.
1	09 00 01*	16.9 S	72.3 W	23		NEAR COAST OF PERU.
1	11 13 27*	14.8 N	119.5 E	37	4.3	LUZON, PHILIPPINE ISLANDS.
1	12 24 30.3	9.8 S	154.7 E	33	5.6	D'ENTRECASTEAUX ISLANDS REGION.
1	13 23 38.0	42.9 N	78.2 W	10	4.7	NEW YORK. SLIGHT DAMAGE AT ATTICA AND VARYSBURG. FELT IN WESTERN NEW YORK, NORTHWESTERN PENNYLVANIA AND SOUTHERN ONTARIO PROVINCE.
1	16 10 20.5	9.7 S	154.8 E	7	5.1	D'ENTRECASTEAUX ISLANDS REGION.
1	19 25 51.1	0.6 N	25.4 W	33	4.9	CENTRAL MID-ATLANTIC RIDGE.
1	19 51 56.1	7.8 S	74.7 W	165	4.6	PERU-BRAZIL BORDER REGION.
2	00 13 41.8	39.9 N	104.8 W	5		COLORADO. FELT AT DENVER.
2	02 45 35.5	28.8 S	69.4 W	100	4.1	CHILE-ARGENTINA BORDER REGION.
2	03 25 32.8	6.4 S	148.6 E	52	4.6	NEW BRITAIN REGION.
2	03 33 54.7	16.0 S	174.0 W	113	4.9	TONGA ISLANDS.
2	03 53 58.2	17.9 S	69.5 W	142	4.4	PERU-BOLIVIA BORDER REGION.
2	04 04 43.0	31.4 N	138.2 E	368	5.2	SOUTH OF HONSHU, JAPAN.
2	04 52 16.1	54.2 N	164.3 W	43	5.4	UNIMAK ISLAND REGION.
2	09 54 47.6	17.6 N	60.9 W	33		LEEWARD ISLANDS.
2	11 16 35.3	28.9 S	70.8 W	60	4.4	CENTRAL CHILE.
2	11 51 49*	74.3 N	71.3 W	33	4.7	BAFFIN BAY.
2	14 47 06.5	16.6 S	172.3 W	33	4.9	SAMOA ISLANDS REGION.
2	16 33 08.6	38.2 N	57.1 E	58	4.1	IRAN-USSR BORDER REGION.
2	18 35 24.0	43.8 N	87.9 E	37		NORTHERN SINKIANG PROV., CHINA.
2	18 41 56.1	23.4 S	179.9 W	523	5.1	SOUTH OF FIJI ISLANDS.
2	23 12 16.7	37.6 N	23.2 E	7	4.9	SOUTHERN GREECE. FELT AT CORINTH.
2	23 30 05.5	19.7 S	34.2 E	33		MOZAMBIQUE.
3	00 15 27*	26.7 N	44.7 W	33	4.3	NORTH ATLANTIC RIDGE.
3	00 42 02*	23.1 S	179.1 E	566	5.0	SOUTH OF FIJI ISLANDS.
3	01 56 00*	44.9 N	147.1 E	122	4.1	KURILE ISLANDS.
3	13 33 34.6	20.6 S	178.4 W	568	4.9	FIJI ISLANDS REGION.
3	15 44 44.8	18.9 S	169.4 E	247	5.4	NEW HEBRIDES ISLANDS. MAG. 4.8-5 (BRK).
3	18 16 04.3	4.6 N	76.0 W	91	4.9	COLOMBIA.
3	23 48 53*	11.3 S	166.2 E	172	4.3	SANTA CRUZ ISLANDS.
4	02 40 53*	18.9 N	108.0 W	33	4.3	REVILLA GIGEDO ISLANDS REGION.
4	02 48 47*	29.2 N	127.3 E	3[illegible]	[illegible].7	EAST CHINA SEA.
4	06 29 24*	22.2 S	70.0 W	27	4.5	NEAR COAST OF NORTHERN CHILE.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
4	07 47 00.1	12.0 N	95.4 E	33	5.1	ANDAMAN ISLANDS REGION.
4	09 00 38.3	12.3 N	141.3 E	33	4.4	SOUTH OF MARIANA ISLANDS.
4	12 48 13.4	15.3 S	70.9 W	184	5.4	SOUTHERN PERU.
4	14 51 54.2	24.8 S	68.2 W	87	4.4	CHILE-ARGENTINA BORDER REGION.
4	15 04 52*	11.5 N	44.0 W	33	4.6	NORTH ATLANTIC RIDGE.
4	16 20 20*	40.7 S	89.3 W	33	4.4	WEST CHILE RISE.
5	00 25 41.9	23.3 S	70.1 W	33	4.6	NEAR COAST OF NORTHERN CHILE. FELT AT ANTOFAGASTA.
5	00 37 17.8	39.8 N	104.7 W	5	5.0	COLORADO. FELT AT DENVER.
5	03 04 48*	12.5 N	123.6 E	33		LUZON, PHILIPPINE ISLANDS.
5	05 46 50.8	35.7 N	141.1 E	55	4.8	NEAR EAST COAST OF HONSHU, JAPAN.
5	07 01 57.7	51.2 N	178.1 W	33	5.1	ANDREANOF ISLANDS, ALEUTIAN IS.
5	07 48 29.6	20.1 S	175.8 W	233	4.7	TONGA ISLANDS.
5	10 26 32.3	36.7 N	71.2 E	188	4.7	AFGHANISTAN-USSR BORDER REGION.
5	10 39 48*	0.2 S	124.2 E	32	4.9	MOLUCCA SEA.
5	11 00 06*	62.6 N	149.6 W	131	3.6	CENTRAL ALASKA.
5	15 25 45.1	32.5 S	70.5 W	67	4.4	CHILE-ARGENTINA BORDER REGION.
5	17 21 27.9	13.2 N	95.5 E	33	5.2	ANDAMAN ISLANDS REGION.
5	18 10 00.9	21.8 N	146.8 E	35	5.5	MARIANA ISLANDS REGION. MAG. 4.8-5 (BRK).
5	20 45 52.3	38.2 N	69.1 E	18	4.9	TADZHIK SSR.
6	04 19 59.0	6.8 N	73.0 W	167	5.3	NORTHERN COLOMBIA.
6	05 58 02*	60.2 N	146.5 W	33	4.0	SOUTHERN ALASKA.
6	12 16 06.8	60.4 N	146.9 W	62	3.8	SOUTHERN ALASKA.
6	16 07 14.8	39.2 N	72.4 E	41	4.8	KIRGIZ SSR.
6	16 36 00*	32.3 N	141.3 E	87	4.1	SOUTH OF HONSHU, JAPAN.
6	18 37 47*	26.7 N	109.8 W	33	4.4	GULF OF CALIFORNIA.
7	07 45 24.2	52.6 N	160.1 E	63	5.2	OFF EAST COAST OF KAMCHATKA.
7	14 32 24.5	16.9 N	119.7 E	44	4.9	LUZON, PHILIPPINE ISLANDS.
7	14 57 43.7	5.2 S	152.6 E	47	5.3	NEW BRITAIN REGION.
7	18 15 44.1	31.4 S	178.3 W	33	4.9	KERMADEC ISLANDS.
7	19 10 22.7	33.2 N	116.2 W	17	4.7	SOUTHERN CALIFORNIA. MAG. 4 (PAS), 4.3-4.8 (BRK).
7	20 17 14*	62.6 S	155.6 E	33	0.0	BALLENY ISLANDS REGION.
7	21 56 16*	27.3 S	67.3 W	147	4.6	CATAMARCA PROVINCE, ARGENTINA.
8	01 06 04.6	15.7 N	122.9 E	67	4.7	PHILIPPINE ISLANDS REGION.
8	04 07 41.3	25.4 S	179.1 W	387	4.7	SOUTH OF FIJI ISLANDS.
8	05 29 54*	30.7 N	113.9 W	33	4.2	GULF OF CALIFORNIA.
8	06 54 11*	19.4 N	121.9 E	12		PHILIPPINE ISLANDS REGION.
8	08 00 55.2	36.6 N	140.8 E	74		NEAR EAST COAST OF HONSHU, JAPAN.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
8	09 21 20*	20.3 S	177.7 W	469	4.0	FIJI ISLANDS REGION.
8	11 04 01.9	38.6 N	117.8 W	33	3.5	NEVADA. MAG. 3.5 (BRK).
8	11 38 35*	17.1 N	85.8 W	33	4.4	CARIBBEAN SEA.
8	14 58 46.9	4.0 S	102.5 E	33		SOUTHERN SUMATRA.
8	15 29 26.1	8.8 N	39.7 W	33	4.7	CENTRAL MID-ATLANTIC RIDGE.
8	20 00 36.0	8.0 N	36.8 W	33	4.5	CENTRAL MID-ATLANTIC RIDGE.
8	20 30 14*	56.7 N	156.5 W	33	4.4	ALASKA PENINSULA.
8	22 22 32.2	31.6 N	137.8 E	421	4.8	SOUTH OF HONSHU, JAPAN.
8	22 39 18.9	37.2 N	138.4 E	16	5.4	NEAR WEST COAST OF HONSHU, JAPAN. FELT AT NAGANO, TAKADA AND TOKYO.
9	00 03 21*	37.0 N	121.4 W	16		CENTRAL CALIFORNIA. MAG. 2.6-2.8 (BRK). FELT AT HOLLISTER.
9	00 08 00.8	37.0 N	121.3 W	16		CENTRAL CALIFORNIA.
9	03 04 03.6	5.4 S	113.7 E	63	5.2	JAVA SEA.
9	04 06 29.8	21.5 S	69.7 W	57	5.4	NORTHERN CHILE.
9	04 50 52.5	41.2 N	29.3 W	33	4.4	AZORES ISLANDS REGION.
9	09 11 30.6	11.4 N	62.3 W	162	5.1	WINDWARD ISLANDS. FELT AT PORT OF SPAIN AND EASTERN PART OF VENEZUELA.
9	09 52 45.5	54.2 N	164.4 W	63	5.3	UNIMAK ISLAND REGION.
9	10 51 10*	54.2 N	164.1 W	33	4.5	UNIMAK ISLAND REGION.
9	12 08 24.7	56.9 S	158.9 E	33	0.0	MACQUARIE ISLAND REGION.
9	16 03 17*	54.2 N	164.8 W	78	4.4	UNIMAK ISLAND REGION.
9	20 16 53.4	10.8 S	75.6 W	33	4.4	PERU.
9	22 52 55.0	29.3 S	71.0 W	33	4.9	NEAR COAST OF CENTRAL CHILE.
9	23 23 09.8	32.2 S	179.6 W	179	3.9	SOUTH OF KERMADEC ISLANDS.
10	00 00 45.7	16.2 N	94.5 W	140	4.2	OAXACA, MEXICO.
10	00 17 12*	54.1 N	164.6 W	33	4.4	UNIMAK ISLAND REGION.
10	01 19 10.8	13.8 N	120.7 E	124	5.4	MINDORO, PHILIPPINE ISLANDS. FELT AT AMBULONG,CALAPAN AND MANILA.
10	06 01 23*	62.7 N	148.9 W	57	3.7	CENTRAL ALASKA.
10	11 13 03.9	7.6 N	72.1 W	55	4.9	NORTHERN COLOMBIA.
10	12 58 51.0	34.6 N	138.3 E	96	4.3	NEAR S. COAST OF HONSHU, JAPAN.
10	16 12 14.7	6.6 S	154.6 E	64	5.9	SOLOMON ISLANDS.
11	00 32 10.5	33.6 N	116.1 W	17	4.4	SOUTHERN CALIFORNIA. MAG. 3 1/4 (PAS).
11	03 10 59.2	0.5 N	120.2 E	92	6.0	NORTHERN CELEBES.
11	09 13 00.1	34.0 N	72.0 E	54	5.3	WEST PAKISTAN. FELT AT RISALPUR.
11	09 51 47*	6.8 S	155.2 E	75	4.6	SOLOMON ISLANDS.
11	10 25 12.2	31.1 N	114.3 W	33		GULF OF CALIFORNIA. MAG. 4.4 (PAS).
11	12 42 06*	27.6 N	85.9 E	33	4.5	NEPAL.
11	14 06 17.4	33.8 N	137.1 E	23	5.1	NEAR S. COAST OF HONSHU, JAPAN.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
11	14 11 08*	33.9 N	137.1 E	33	4.3	NEAR S. COAST OF HONSHU, JAPAN.
11	14 16 32.3	33.7 N	137.1 E	33	5.6	NEAR S. COAST OF HONSHU, JAPAN.
11	14 35 38*	34.2 N	142.3 E	33	4.5	OFF EAST COAST OF HONSHU, JAPAN.
11	16 16 44.2	38.5 N	69.7 E	63	4.4	TADZHIK SSR.
11	21 49 14*	34.2 N	137.1 E	33	4.2	NEAR S. COAST OF HONSHU, JAPAN.
12	01 38 09*	44.1 N	147.3 E	33	4.6	KURILE ISLANDS.
12	08 02 09.2	2.3 S	77.1 W	169	4.7	PERU-ECUADOR BORDER REGION.
12	10 21 57.8	36.2 N	141.7 E	46	5.1	NEAR EAST COAST OF HONSHU, JAPAN.
12	11 49 23*	20.7 S	178.4 W	548	4.4	FIJI ISLANDS REGION.
12	12 29 27.2	15.0 N	94.6 W	38	4.8	NEAR COAST OF OAXACA, MEXICO.
12	18 40 14*	10.4 N	127.3 E	67	4.9	PHILIPPINE ISLANDS REGION.
13	01 44 12.6	38.4 N	28.5 E	33	4.4	TURKEY.
13	03 40 38.5	36.1 N	117.8 W	16	3.2	CALIFORNIA-NEVADA BORDER REGION. MAG. 3 1/4 (PAS). 3.6 (BRK).
13	03 41 42.0	27.5 N	57.1 E	33		SOUTHERN IRAN.
13	03 46 37*	36.1 N	117.9 W	16		CALIFORNIA-NEVADA BORDER REGION. MAG. 2 3/4 (PAS).
13	05 53 49*	18.0 S	178.4 W	621		FIJI ISLANDS REGION.
13	10 30 51.8	19.0 N	64.7 W	50	5.3	VIRGIN ISLANDS. MAG. 4 1/2-4 3/4 (PAL).
13	10 41 11.7	52.9 N	172.0 E	17	5.6	NEAR ISLANDS, ALEUTIAN ISLANDS. MAG. 4.4-5 (BRK).
13	12 24 38.4	51.4 N	157.1 E	50	4.7	NEAR EAST COAST OF KAMCHATKA.
13	14 17 10.6	8.3 S	74.1 W	180	5.1	PERU-BRAZIL BORDER REGION.
13	15 37 43.1	37.1 N	116.0 W	0		37° 06' 58.0"N. 116° 01' 39.0"N. NEVADA TEST SITE. "MAXWELL" SHOT ELEVATION 1127.2 METERS (AEC).
13	19 26 23.3	20.8 S	69.3 W	106	4.5	NORTHERN CHILE.
13	19 48 43.6	39.2 N	68.7 E	17		TADZHIK SSR.
13	23 42 47*	15.3 S	173.8 W	89	4.6	TONGA ISLANDS.
14	01 07 17*	49.4 N	154.6 E	86	5.0	KURILE ISLANDS.
14	07 39 13.2	5.9 S	148.3 E	88	5.4	NEW BRITAIN REGION. FELT AT RABAUL.
14	08 52 18.1	17.8 N	62.1 W	42	0.0	LEEWARD ISLANDS.
14	10 02 07.4	16.8 N	62.4 W	23		LEEWARD ISLANDS.
14	18 39 30.8	34.6 N	27.0 E	33	4.8	EASTERN MEDITERRANEAN SEA.
14	20 41 04.2	17.4 S	166.6 E	10	5.4	NEW HEBRIDES ISLANDS.
14	21 20 11.0	39.0 N	110.4 W	0	3.8	UTAH. PROBABLE QUARRY BLAST.
14	21 49 38.8	37.9 S	73.5 W	36	5.0	NEAR COAST OF CENTRAL CHILE.
14	21 55 49.5	51.4 N	169.0 W	33	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
15	03 34 21*	20.2 S	69.1 W	131	4.1	NORTHERN CHILE.
15	03 57 40*	19.1 S	174.3 W	33	4.7	TONGA ISLANDS.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
15	05 09 11.3	30.8 S	71.6 W	54	5.1	NEAR COAST OF CENTRAL CHILE.
15	06 26 18*	31.2 N	114.2 W	33	4.2	GULF OF CALIFORNIA.
15	06 35 58.0	19.3 N	65.3 W	33	4.2	PUERTO RICO REGION.
15	07 11 10.5	6.2 N	126.2 E	65	5.1	MINDANAO, PHILIPPINE ISLANDS.
15	07 51 40*	19.5 N	108.9 W	33	4.0	REVILLA GIGEDO ISLANDS REGION.
15	09 01 19*	31.2 N	140.5 E	73	4.1	SOUTH OF HONSHU, JAPAN.
15	10 56 35*	20.3 S	174.4 W	33	4.7	TONGA ISLANDS.
15	11 16 18*	19.7 N	108.8 W	33	4.5	REVILLA GIGEDO ISLANDS REGION.
15	11 32 48.3	18.7 S	169.2 E	214	4.4	NEW HEBRIDES ISLANDS.
15	11 59 58.9	59.5 N	144.6 W	33	5.3	GULF OF ALASKA. MAG. 5.3-5.5 (BRK).
15	15 46 53*	18.4 N	101.2 W	123	4.1	GUERRERO, MEXICO.
15	16 08 02.4	59.5 N	144.6 W	30	4.4	GULF OF ALASKA.
15	18 07 42.8	36.7 N	23.0 E	11	4.7	SOUTHERN GREECE.
15	19 28 55.7	33.6 S	70.2 W	33	5.0	CHILE-ARGENTINA BORDER REGION.
15	19 29 36*	33.5 S	69.8 W	50	5.5	CHILE-ARGENTINA BORDER REGION.
15	20 41 56*	18.9 S	178.6 W	600	3.9	FIJI ISLANDS REGION.
15	21 56 30*	32.3 S	178.2 W	33	4.2	SOUTH OF KERMADEC ISLANDS.
16	07 07 56.5	9.1 N	93.8 E	33	5.2	NICOBAR ISLANDS REGION.
16	09 11 47.3	52.8 N	172.0 E	8	5.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
16	09 22 19.3	5.3 S	147.0 E	204		EAST NEW GUINEA REGION.
16	12 32 50.8	50.5 N	4.3 E	33	4.2	BELGIUM. FELT AT LA LOUVIERE.
16	12 48 56.1	7.5 S	122.7 E	197		FLORES SEA.
16	14 30 44.4	4.9 S	142.6 E	104	4.7	NEW GUINEA.
16	14 44 39.1	35.4 N	117.8 W	16	4.1	CENTRAL CALIFORNIA.
16	18 52 00.8	33.2 N	26.2 E	33	5.0	EASTERN MEDITERRANEAN SEA.
16	19 44 41.8	54.8 N	165.8 E	33	5.4	KOMANDORSKY ISLANDS REGION.
16	20 02 07.0	30.8 N	50.3 E	21	4.4	IRAN.
16	20 15 28.1	35.6 N	25.9 E	36	4.7	CRETE.
16	21 45 48.7	17.4 S	176.8 W	359	4.3	FIJI ISLANDS REGION.
16	23 42 00.0	36.9 N	140.8 E	86	4.8	NEAR EAST COAST OF HONSHU, JAPAN.
17	01 48 08.4	37.0 N	121.5 W	6	4.0	CENTRAL CALIFORNIA. MAG. 3.3 (BRK). HYPOCENTER BY BERKELEY.
17	02 03 20.1	37.0 N	121.5 W	6	4.4	CENTRAL CALIFORNIA. MAG. 4.1 (BRK). FELT AT HOLLISTER, OAKLAND AND SAN FRANCISCO. HYPOCENTER BY BERKELEY.
17	02 23 37.1	37.0 N	121.5 W	6		CENTRAL CALIFORNIA. MAG. 2.9 (BRK). HYPOCENTER BY BERKELEY.
17	02 48 37.8	37.0 N	121.5 W	6		CENTRAL CALIFORNIA.
17	06 12 07.9	15.6 N	104.6 W	33	4.2	OFF COAST OF MICHOACAN, MEXICO.
17	06 22 56.4	37.0 N	121.5 W	6		CENTRAL CALIFORNIA. MAG. 2.8 (BRK). HYPOCENTER BY BERKELEY.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
17	06 24 45*	3.4 S	79.3 W	133	3.8	NEAR COAST OF ECUADOR.
17	06 57 04.4	11.6 S	75.9 W	102	4.3	PERU.
17	07 33 45*	12.9 S	40.5 E	33		MOZAMBIQUE.
17	08 39 40.9	40.1 N	20.3 E	35	4.3	GREECE-ALBANIA BORDER REGION.
17	14 42 19.9	14.1 N	92.1 W	75	4.8	NEAR COAST OF CHIAPAS, MEXICO.
17	17 50 00.8	20.9 S	178.5 W	561	5.6	FIJI ISLANDS REGION.
17	18 09 05.9	21.6 N	142.9 E	324	4.8	MARIANA ISLANDS REGION.
17	18 56 15.5	52.0 N	171.2 W	39	5.0	FOX ISLANDS, ALEUTIAN ISLANDS.
17	20 04 58.6	38.2 N	22.0 E	67	4.4	GREECE.
17	23 57 59*	19.0 S	175.5 W	196	6.8	TONGA ISLANDS.
18	01 13 12.4	29.3 N	130.3 E	10	5.3	RYUKYU ISLANDS.
18	03 03 44*	35.8 N	26.3 E	108		CRETE.
18	03 56 11*	17.2 S	178.7 W	539	4.0	FIJI ISLANDS REGION.
18	05 39 56.4	18.0 S	178.2 W	550	4.2	FIJI ISLANDS REGION.
18	06 27 15.0	18.8 S	177.6 W	389	5.3	FIJI ISLANDS REGION.
18	08 00 05.7	5.3 S	153.4 E	48		NEW IRELAND REGION.
18	10 25 59.3	3.6 S	80.9 W	75	4.5	PERU-ECUADOR BORDER REGION.
18	12 14 52.4	36.5 N	70.9 E	189	4.7	HINDU KUSH REGION.
18	18 35 00.0	37.1 N	116.1 W			37° 05' 30.0"N. 116° 01' 07.0"W. NEVADA TEST SITE. "LAMPBLACK" SHOT ELEVATION 730.0 METERS (AEC).
18	20 19 24.7	2.6 S	138.8 E	47	5.4	WEST NEW GUINEA.
18	20 20 25.0	46.0 N	26.8 E	69	4.4	RUMANIA.
18	20 54 12.6	37.9 N	57.0 E	33		IRAN-USSR BORDER REGION. FELT.
18	21 20 04.0	35.2 N	23.5 E	71	4.8	CRETE.
18	21 28 51.5	61.4 N	151.9 W	80	4.1	SOUTHERN ALASKA. FELT AT ANCHORAGE.
18	21 46 01.5	61.5 N	150.7 W	69	4.1	SOUTHERN ALASKA. FELT AT ANCHORAGE.
19	01 38 38.5	51.2 N	180.0 W	33	4.8	ANDREANOF ISLANDS, ALEUTIAN IS.
19	01 45 26.5	3.4 N	97.3 E	33	4.8	NORTHERN SUMATRA.
19	03 06 27*	35.4 N	118.7 W	33	4.2	CENTRAL CALIFORNIA. MAG. 3-3.5 (BRK).
19	04 24 58.1	14.1 N	92.4 W	33	4.1	NEAR COAST OF CHIAPAS, MEXICO.
19	04 44 31.1	17.8 S	71.4 W	83	5.2	NEAR COAST OF PERU. FELT AT AREQUIPA.
19	08 04 58.4	39.5 N	71.5 E	54		TADZHIK SSR.
19	09 05 46*	41.7 N	141.8 E	58	4.8	HOKKAIDO, JAPAN REGION.
19	09 16 40*	44.2 N	129.0 W	33	4.3	OFF COAST OF OREGON.
19	11 49 58.3	20.6 S	177.6 W	518	4.5	FIJI ISLANDS REGION.
19	12 48 00.3	51.8 N	176.1 E	33	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
19	13 46 01.6	20.8 S	178.4 W	582	5.1	FIJI ISLANDS REGION.
19	20 02 34.1	37.0 N	121.5 W	6		CENTRAL CALIFORNIA. MAG. 2.6-2.8 (BRK). HYPOCENTER BY BERKELEY.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
19	21 06 31.1	22.6 N	143.4 E	106	4.9	VOLCANO ISLANDS REGION.
20	00 38 59.2	39.2 N	24.3 E	12	4.5	AEGEAN SEA. FELT IN SPORADES ISLANDS.
20	01 44 45.4	37.9 N	138.0 E	6	5.6	NEAR WEST COAST OF HONSHU, JAPAN. FELT ON WEST COAST OF CENTRAL JAPAN AND ON SADO ISLAND.
20	02 39 36*	24.0 S	177.5 W	482	4.2	SOUTH OF FIJI ISLANDS.
20	04 27 44.4	15.2 S	168.1 E	23	5.5	NEW HEBRIDES ISLANDS.
20	05 34 43.8	15.2 S	168.1 E	18	4.7	NEW HEBRIDES ISLANDS.
20	06 40 45*	54.0 N	164.5 W	33	4.3	UNIMAK ISLAND REGION.
20	07 14 04.2	14.9 S	75.7 W	46	4.9	NEAR COAST OF PERU.
20	11 03 55.6	25.1 S	180.0	409	4.5	SOUTH OF FIJI ISLANDS.
20	14 46 05.2	53.0 N	171.8 E	21	5.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
20	15 01 55.4	15.2 S	172.7 W	33	5.3	SAMOA ISLANDS REGION. FELT AT APIA.
20	15 21 12.1	32.7 N	131.4 E	29	4.7	KYUSHU, JAPAN.
20	16 04 21.7	43.8 N	147.5 E	33	5.1	KURILE ISLANDS.
20	16 32 19.2	52.4 N	169.6 W	14	5.3	FOX ISLANDS, ALEUTIAN ISLANDS.
20	17 41 45*	44.7 N	128.3 W	33	3.5	OFF COAST OF OREGON.
20	18 38 41*	5.7 S	152.1 E	11		NEW BRITAIN REGION.
20	19 51 25*	51.9 N	130.3 W	33		QUEEN CHARLOTTE ISLANDS REGION.
20	20 53 32*	13.5 S	167.0 E	33		NEW HEBRIDES ISLANDS.
20	21 31 25*	0.5 S	79.7 W	53	4.1	ECUADOR.
20	23 37 02.8	22.9 N	121.3 E	69	5.1	TAIWAN REGION.
21	00 27 16.2	11.3 N	62.2 W	154	3.8	WINDWARD ISLANDS. FELT AT ST AUGUSTINE, TRINIDAD.
21	01 32 19.7	23.6 S	179.8 E	611		SOUTH OF FIJI ISLANDS.
21	02 20 02*	23.7 S	179.5 E	645	4.0	SOUTH OF FIJI ISLANDS.
21	04 10 36.1	37.0 N	121.5 W	6	4.4	CENTRAL CALIFORNIA. MAG. 3.4-3.6 (BRK). FELT AT HOLLISTER. HYPOCENTER BY BERKELEY.
21	09 43 27.6	43.0 N	145.8 E	48	5.0	HOKKAIDO, JAPAN REGION.
21	12 39 42.5	12.1 N	43.8 E	33	4.7	WESTERN ARABIAN PENINSULA.
21	18 03 30.2	51.2 N	179.3 E	45	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
21	18 20 22.8	5.6 N	77.6 W	4	4.7	NEAR WEST COAST OF COLOMBIA.
21	18 28 00.0	37.1 N	116.1 W			37° 01' 54.0"N. 116° 00' 57.0"W. NEVADA TEST SITE. "DOVEKIE" SHOT ELEVATION 884.2 METERS (AEC).
21	19 03 19.3	37.0 N	115.8 W			"DOVEKIE" COLLAPSE.
22	00 23 42.1	37.7 N	30.0 E	20	4.9	TURKEY.
22	01 36 37*	17.4 N	107.0 W	33	3.6	OFF COAST OF JALISCO, MEXICO.
22	02 04 42*	19.0 N	108.0 W	33	3.9	REVILLA GIGEDO ISLANDS REGION.
22	02 19 45.9	34.2 N	116.5 W	16	4.0	SOUTHERN CALIFORNIA. MAG. 3 1/2 (PAS).

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
22	02 52 23*	16.5 N	95.4 W	33	3.5	OAXACA, MEXICO.
22	03 17 30.1	35.6 N	118.4 W	16	3.5	CENTRAL CALIFORNIA. MAG. 2 3/4-3 (PAS). FELT AT KERNVILLE.
22	03 54 51.9	28.9 S	176.7 W	27	5.1	KERMADEC ISLANDS.
22	07 02 39*	20.7 S	174.3 W	33	4.6	TONGA ISLANDS.
22	07 36 49.5	17.3 N	94.2 W	142	5.0	CHIAPAS, MEXICO.
22	07 47 44.9	18.8 N	101.2 W	116	4.1	GUERRERO, MEXICO.
22	08 26 05*	19.1 N	107.9 W	33	3.9	OFF COAST OF JALISCO, MEXICO.
22	11 01 05.2	18.1 S	178.4 W	598	5.2	FIJI ISLANDS REGION. MAG. 5-5.4 (BRK).
22	12 42 05.2	22.3 S	65.8 W	246	4.3	JUJUY PROVINCE, ARGENTINA.
22	14 05 41*	10.3 S	74.7 W	95	4.2	PERU.
22	14 27 07.9	56.0 N	153.7 W	33	5.8	KODIAK ISLAND REGION. MAG. 6 (PAS), 6.2 (BRK), 6 1/4-6 1/2 (PAL).
22	17 18 39*	41.4 N	127.3 W	33	4.5	OFF COAST OF NORTHERN CALIFORNIA.
22	17 23 49*	41.7 N	126.1 W	33	4.5	OFF COAST OF NORTHERN CALIFORNIA.
22	17 33 50*	41.7 N	126.7 W	33	4.3	OFF COAST OF NORTHERN CALIFORNIA.
22	18 31 01*	51.4 N	156.9 E	153	4.7	KAMCHATKA.
22	18 59 48*	15.8 S	167.6 E	62	4.6	NEW HEBRIDES ISLANDS.
22	19 02 49*	10.8 N	43.4 W	33	4.5	NORTH ATLANTIC RIDGE.
22	19 36 32.2	20.7 S	174.6 W	33	5.0	TONGA ISLANDS.
22	22 07 33.9	62.1 N	141.3 W	33	4.7	CENTRAL ALASKA.
23	00 34 04*	63.9 N	148.4 W	119	3.9	CENTRAL ALASKA.
23	00 46 27.4	39.9 N	76.1 E	33	0.0	SOUTHERN SINKIANG PROV., CHINA.
23	00 57 20.8	16.0 N	95.0 W	43	4.6	OAXACA, MEXICO. MAG. 5 1/4-5 1/2 (PAL).
23	01 31 31*	46.0 N	11.8 E	34	3.8	NORTHERN ITALY.
23	01 56 38.8	37.0 N	107.0 W	14	5.5	COLORADO. MAG. 5 1/2 (PAS), 4.3-4.9 (BRK), 5-5 1/4 (PAL). MODERATE DAMAGE AT DULCE, NEW MEXICO. SLIGHT DAMAGE AT LUMBERTON AND EDITH, NEW MEXICO. FELT WIDELY IN NORTHERN NEW MEXICO, ALSO FELT IN SOUTHERN COLORADO.
23	02 08 35*	37.0 N	107.0 W	5		COLORADO. FELT AT LUMBERTON, NEW MEXICO.
23	02 13 13.5	36.9 N	107.0 W	5		NEW MEXICO. FELT AT LUMBERTON.
23	04 50 14*	36.9 N	107.4 W	5		NEW MEXICO.
23	05 19 47.8	37.0 N	107.2 W	5		COLORADO.
23	06 14 15.6	36.9 N	107.2 W	5	4.2	NEW MEXICO. FELT AT DULCE, LUMBERTON AND EDITH.
23	07 10 41*	36.9 N	107.3 W	5		NEW MEXICO.
23	07 35 08*	36.9 N	107.3 W	5		NEW MEXICO.
23	07 41 16*	41.2 N	126.4 W	33	4.1	OFF COAST OF NORTHERN CALIFORNIA.
23	07 44 36*	36.9 N	107.3 W	5		NEW MEXICO.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
23	08 35 09*	18.0 S	173.5 W	64	3.8	TONGA ISLANDS.
23	09 52 18.7	13.9 N	61.1 W	4		WINDWARD ISLANDS.
23	10 53 11*	36.9 N	107.2 W	5		NEW MEXICO. FELT AT LUMBERTON.
23	11 01 07.1	36.9 N	107.2 W	5	4.3	NEW MEXICO.
23	11 15 55.3	36.5 N	138.3 E	7	4.4	HONSHU, JAPAN. SLIGHT DAMAGE AT MATSUSHIRO.
23	12 14 36*	37.0 N	107.1 W	5		COLORADO. FELT AT LUMBERTON, NEW MEXICO.
23	15 04 07*	28.0 S	176.6 W	33	4.8	KERMADEC ISLANDS.
23	19 43 19.7	36.9 N	107.1 W	5	4.5	NEW MEXICO. FELT AT DULCE, LUMBERTON AND EDITH.
23	20 42 19*	36.9 N	107.2 W	5		NEW MEXICO.
23	21 01 46*	7.3 S	128.2 E	126	4.6	BANDA SEA.
23	22 45 13*	36.9 N	107.2 W	5		NEW MEXICO.
23	23 09 17.0	36.0 N	140.6 E	59	5.1	NEAR EAST COAST OF HONSHU, JAPAN.
23	23 48 08.1	36.9 N	107.0 W	5	4.6	NEW MEXICO. FELT AT DULCE, LUMBERTON AND EDITH.
24	01 25 15*	15.2 S	167.3 E	111		NEW HEBRIDES ISLANDS.
24	01 31 29*	36.9 N	107.2 W	5		NEW MEXICO. FELT AT LUMBERTON.
24	02 15 29.4	32.6 N	67.6 E	52	5.1	AFGHANISTAN.
24	03 36 54*	41.[illegible] N	126.3 W	33	4.4	OFF COAST OF NORTHERN CALIFORNIA.
24	03 46 57.9	12.[illegible] N	88.4 W	46	4.5	OFF COAST OF CENTRAL AMERICA.
24	04 06 37*	41.[illegible] N	127.2 W	33	4.2	OFF COAST OF NORTHERN CALIFORNIA.
24	04 37 26*	41.[illegible] N	126.9 W	33	4.6	OFF COAST OF NORTHERN CALIFORNIA.
24	05 23 01*	41.[illegible] N	128.0 W	33	4.6	OFF COAST OF NORTHERN CALIFORNIA.
24	05 59 50*	41.[illegible] N	126.5 W	33	4.7	OFF COAST OF NORTHERN CALIFORNIA.
24	06 07 24*	41.5 N	127.5 W	33	4.5	OFF COAST OF NORTHERN CALIFORNIA.
24	06 48 12*	41.6 N	127.3 W	33	4.7	OFF COAST OF NORTHERN CALIFORNIA.
24	07 23 09.7	29.9 N	69.7 E	26	5.6	WEST PAKISTAN. FELT AT BARKHAN, DERAGHAZI KHAN, AND MULTAN.
24	08 27 10*	41.2 N	124.5 W	27	4.4	NEAR COAST OF NORTHERN CALIF.
24	09 00 30*	37.0 N	107.1 W	5		COLORADO.
24	09 42 02.2	6.9 N	73.0 W	155	4.5	NORTHERN COLOMBIA.
24	09 42 14.9	30.3 N	69.8 E	69	4.7	WEST PAKISTAN.
24	10 48 02.4	0.0 N	123.1 E	251	5.3	NORTHERN CELEBES.
24	11 41 25.1	62.6 N	151.6 W	41	4.2	CENTRAL ALASKA.
24	15 32 51.7	29.9 N	69.7 E	26	5.1	WEST PAKISTAN. FELT AT BARKHAN.
24	18 59 45*	41.6 N	127.5 W	33	4.2	OFF COAST OF NORTHERN CALIFORNIA.
24	21 07 39.8	23.5 S	64.2 W	15	5.0	JUJUY PROVINCE, ARGENTINA.
24	21 21 58*	41.7 N	126.9 W	33	4.7	OFF COAST OF NORTHERN CALIFORNIA.
24	21 45 35*	7.0 S	125.0 E	485	4.2	BANDA SEA.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
24	22 06 50*	36.9 N	107.1 W	5		NEW MEXICO.
24	22 10 01.9	51.7 N	176.3 W	54	4.5	ANDREANOF ISLANDS, ALEUTIAN IS. FELT AT ADAK.
24	23 47 12.7	0.4 S	127.5 E	178	4.9	HALMAHERA.
25	03 26 58*	41.6 N	127.1 W	33	4.4	OFF COAST OF NORTHERN CALIFORNIA.
25	05 50 58*	41.7 N	126.2 W	33	4.4	OFF COAST OF NORTHERN CALIFORNIA.
25	07 50 54*	36.8 N	107.3 W	5		NEW MEXICO.
25	08 46 25*	36.2 S	97.2 W	33	4.4	WEST CHILE RISE.
25	10 38 05.0	36.8 N	107.1 W	5	4.0	NEW MEXICO. FELT AT DULCE, LUMBERTON AND EDITH.
25	15 32 49*	36.8 N	107.1 W	5		NEW MEXICO.
25	16 59 53*	8.9 N	82.8 W	65	4.1	PANAMA-COSTA RICA BORDER REGION.
25	18 05 54.8	1.7 N	117.9 E	43	5.3	BORNEO.
25	19 53 12.0	37.2 N	107.6 W	5		COLORADO.
25	22 53 49*	20.8 S	69.6 W	111	4.4	NORTHERN CHILE.
26	01 00 14.6	59.5 S	26.3 W	74	5.6	SOUTH SANDWICH ISLANDS REGION.
26	01 22 25*	47.9 N	145.4 E	474	4.3	SEA OF OKHOTSK.
26	04 20 28*	7.1 S	110.4 E	238	0.0	JAVA.
26	04 45 08*	16.3 N	95.4 W	31	3.7	OAXACA, MEXICO.
26	05 49 06*	48.9 S	111.1 W	33	4.9	EASTER ISLAND CORDILLERA.
26	08 18 22.7	40.7 N	72.8 E	22	5.4	KIRGIZ SSR.
26	09 28 47*	31.3 N	114.3 W	33	4.3	GULF OF CALIFORNIA.
26	10 31 45.7	27.8 N	139.8 E	498	4.6	BONIN ISLANDS REGION.
26	11 18 12.0	20.1 N	121.5 E	13	4.9	PHILIPPINE ISLANDS REGION.
26	13 04 16*	15.4 S	174.8 W	249	4.2	TONGA ISLANDS.
26	13 30 28.0	39.0 N	21.4 E	48	4.4	GREECE.
26	15 30 42.6	14.3 S	167.3 E	208	4.8	NEW HEBRIDES ISLANDS.
26	19 01 17.7	18.9 S	173.6 W	33	4.8	TONGA ISLANDS.
26	21 45 06.1	33.1 N	116.3 W	16	4.5	SOUTHERN CALIFORNIA. MAG. 3 1/4-3 1/2 (PAS). 3.8-4.2 (BRK). FELT IN BORREGO SPRINGS AREA.
26	22 54 08.9	28.4 N	139.5 E	421	4.3	BONIN ISLANDS REGION.
27	00 49 59*	37.0 N	107.1 W	5		COLORADO.
27	02 01 35.3	18.0 S	178.4 W	580	5.1	FIJI ISLANDS REGION. MAG. 5-5 1/2 (BRK).
27	02 27 00*	3.1 N	100.3 W	33	4.7	EAST CENTRAL PACIFIC OCEAN.
27	03 59 02*	36.9 N	107.1 W	5		NEW MEXICO. FELT AT LUMBERTON.
27	06 20 57.0	57.7 N	152.0 W	33	4.1	KODIAK ISLAND REGION.
27	07 48 29*	36.9 N	106.9 W	5		NEW MEXICO.
27	09 29 01*	36.9 N	107.2 W	5		NEW MEXICO.
27	10 19 56.0	53.7 N	163.7 W	33	4.3	UNIMAK ISLAND REGION.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
27	12 00 31.8	39.8 N	140.9 E	109	5.2	HONSHU, JAPAN.
27	17 15 55*	20.0 S	168.6 E	33		LOYALTY ISLANDS.
27	19 39 06.0	51.3 N	178.2 E	42	5.5	RAT ISLANDS, ALEUTIAN ISLANDS.
27	23 45 49.6	13.8 S	167.3 E	206	4.4	NEW HEBRIDES ISLANDS.
28	04 36 46.1	17.6 S	177.0 E	556	5.5	FIJI ISLANDS. MAG. 5 (BRK).
28	05 32 21*	36.9 N	107.2 W	5		NEW MEXICO.
28	05 42 16.3	17.1 S	168.4 E	23	5.7	NEW HEBRIDES ISLANDS. MAG. 6 1/2 (PAS). 5.5-5.8 (BRK). FELT ON TONGA AND AT PORT VILA.
28	06 52 42.7	17.1 S	168.7 E	5	4.6	NEW HEBRIDES ISLANDS.
28	06 55 31*	36.8 N	107.1 W	5		NEW MEXICO.
28	07 59 58.3	2.7 N	95.3 W	33	5.1	GALAPAGOS ISLANDS REGION.
28	08 52 05.0	39.3 N	73.1 E	43	5.3	TADZHIK-SINKIANG BORDER REGION.
28	09 27 34.4	17.9 S	178.5 W	579	5.4	FIJI ISLANDS REGION.
28	10 15 06.4	43.6 N	127.2 W	33	5.1	OFF COAST OF OREGON.
28	14 01 52*	12.8 N	142.4 E	89	4.5	SOUTH OF MARIANA ISLANDS.
28	14 53 03*	36.9 N	107.1 W	5		NEW MEXICO.
28	17 09 11*	25.1 S	179.7 E	600	4.2	SOUTH OF FIJI ISLANDS.
28	18 00 09.1	41.6 N	118.2 W	20	4.4	NEVADA. MAG. 4.4-4.8 (BRK). FELT IN WINNEMUCCA AREA.
28	19 07 15.0	51.9 N	177.1 W	55	5.4	ANDREANOF ISLANDS, ALEUTIAN IS. FELT ON ADAK.
28	21 25 22*	3.5 S	81.3 W	33	4.5	NEAR COAST OF NORTHERN PERU.
28	22 38 13.7	51.6 N	157.0 E	122	5.7	NEAR EAST COAST OF KAMCHATKA. MAG. 5.2 (BRK).
28	23 47 30*	53.8 N	163.1 W	165	4.0	UNIMAK ISLAND REGION.
29	00 10 44.5	17.0 S	168.3 E	33	4.7	NEW HEBRIDES ISLANDS.
29	01 13 15*	17.0 S	168.2 E	33	4.5	NEW HEBRIDES ISLANDS.
29	02 37 03.7	31.2 S	177.7 W	33	3.7	KERMADEC ISLANDS.
29	03 18 58*	5.6 N	76.1 W	85	4.2	COLOMBIA.
29	03 19 23*	19.4 S	175.5 W	248	4.3	TONGA ISLANDS.
29	03 29 43*	6.9 N	73.0 W	157	3.4	NORTHERN COLOMBIA.
29	06 24 22.7	16.9 S	168.4 E	33	4.9	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
29	07 19 19*	1.0 N	119.2 E	26	4.9	CELEBES SEA.
29	07 52 07*	45.5 N	151.6 E	33	5.1	KURILE ISLANDS.
29	11 21 51.3	37.0 N	106.9 W	5		COLORADO. FELT AT DULCE, LUMBERTON AND EDITH, NEW MEXICO.
29	14 40 30.5	16.6 N	91.2 W	33	4.7	MEXICO-GUATEMALA BORDER REGION.
29	14 59 39.2	52.7 N	171.2 E	33	4.5	NEAR ISLANDS, ALEUTIAN ISLANDS.
29	15 06 29*	21.8 S	169.6 E	33		LOYALTY ISLANDS REGION.

DATE 1966	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JAN	H M S	DEG	DEG	KM		
29	16 09 01.6	41.6 N	127.2 W	33	4.9	OFF COAST OF NORTHERN CALIFORNIA. MAG. 4 (BRK).
29	16 53 38*	6.7 N	72.9 W	166	4.8	NORTHERN COLOMBIA.
29	18 38 48*	37.0 N	106.9 W	5		COLORADO. FELT AT DULCE, NEW MEXICO AREA.
29	19 25 06*	37.0 N	106.9 W	5		COLORADO. FELT AT DULCE, NEW MEXICO AREA.
29	20 01 54*	36.8 N	107.1 W	5		NEW MEXICO.
30	01 48 47*	11.2 S	14.5 W	33	4.9	ASCENSION ISLAND REGION.
30	01 55 06*	51.5 N	30.0 W	33	4.5	NORTH ATLANTIC RIDGE.
30	02 39 53*	36.9 N	107.2 W	5		NEW MEXICO.
30	03 01 56.5	38.8 N	21.4 E	33	4.2	GREECE.
30	03 17 43*	6.8 N	73.0 W	166	5.1	NORTHERN COLOMBIA.
30	06 47 00.1	38.8 N	21.5 E	36	4.4	GREECE.
30	07 16 30*	16.5 S	172.7 W	107	4.4	SAMOA ISLANDS REGION.
30	07 25 31*	73.8 N	8.9 E	32		GREENLAND SEA.
30	09 16 55*	33.7 S	179.3 W	49		SOUTH OF KERMADEC ISLANDS.
30	11 05 02.2	22.1 S	170.0 E	46	5.3	LOYALTY ISLANDS REGION.
30	13 32 28.7	17.0 S	168.2 E	24	4.6	NEW HEBRIDES ISLANDS.
30	21 38 52.0	37.9 N	72.6 E	132	4.1	TADZHIK SSR.
31	00 45 41*	46.8 N	153.0 E	33	4.3	KURILE ISLANDS.
31	02 35 05.4	27.9 N	99.6 E	28	5.4	YUNNAN PROVINCE, CHINA.
31	03 04 04*	41.8 N	141.6 E	59	4.3	HOKKAIDO, JAPAN REGION.
31	04 30 56.5	38.9 N	21.7 E	33	4.8	GREECE.
31	04 53 50*	31.7 N	141.6 E	93	4.3	SOUTH OF HONSHU, JAPAN.
31	06 08 01*	21.9 S	170.0 E	21		LOYALTY ISLANDS REGION.
31	06 34 29.0	10.8 N	62.2 W	33	4.2	NEAR COAST OF VENEZUELA. FELT.
31	07 16 29*	27.9 N	111.0 W	33	4.5	GULF OF CALIFORNIA.
31	07 42 07.0	52.3 N	170.9 E	33		NEAR ISLANDS, ALEUTIAN ISLANDS.
31	08 33 41.4	22.0 S	170.0 E	25	5.1	LOYALTY ISLANDS REGION.
31	12 31 27*	32.4 N	48.8 E	11	4.4	WESTERN IRAN.
31	13 54 27.2	1.5 S	78.0 W	196	4.6	ECUADOR.
31	14 01 24.3	24.9 S	64.4 W	35	5.7	SALTA PROVINCE, ARGENTINA. MAG. 5.6 (BRK).
31	15 43 52*	37.0 N	106.9 W	5		COLORADO.
31	19 12 14*	17.1 S	167.8 E	23		NEW HEBRIDES ISLANDS.
31	19 20 19.2	51.6 N	170.7 W	33	4.6	FOX ISLANDS, ALEUTIAN ISLANDS.
31	21 18 42*	17.0 S	168.5 E	33		NEW HEBRIDES ISLANDS.
31	23 03 24*	51.5 N	173.8 E	33	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.

Date and Station	Phase (GCT)
	h m s
JAN 1	
BMO EP	00 03 58.0
ES	04 27.5
JAN 1	
COL IP	00 18 06.5
JAN 1	
BMO EP	00 35 25.5
JAN 1	
COL E(P)	01 30 01.0
JAN 1	
BMO EP	04 40 54.4
JAN 1	
BMO EP	05 45 28.2
JAN 1	
COL IP	06 31 32.3
JAN 1	
H-06 36 25.5	
16.9N 097.7W	
h ABOUT 52KM	
ALQ EP	06 40 52.1
BMO EP	06 42 52.0
JAN 1	
BCN IP	07 17 46.4
IS	17 47.5
JAN 1	
EUR EP	07 43 42.0
ALQ E(P)	07 45 13.0
JAN 1	
EUR EP	07 58 02.3
BMO EP	07 58 41.2
JAN 1	
BOZ E(P)	08 16 55.0
JAN 1	
COL E(P)	08 26 09.0
JAN 1	
H-08 41 54.7	
57.5N 153.7W	
h ABOUT 42KM	
COL EP	08 43 50.0
BRW EP	08 45 10.9
BMO EP	08 47 23.0
JAN 1	
BMO IP	11 06 16.4
JAN 1	
H-11 13 27.1	
14.8N 119.5E	
h ABOUT 37KM	
COL EP	11 25 22.0
JAN 1	
COL EP	11 32 11.0

Date and Station	Phase (GCT)
	h m s
JAN 1	
H-12 24 30.3	
09.8S 154.7E	
h ABOUT 33KM	
GUA E(P)	12 29 46.0
ES	34 18.0
COL IP	12 37 06.0
JAN 1	
BMO IP	12 32 03.0
JAN 1	
COL EP	12 39 23.0
EUR E(P)	12 40 11.9
JAN 1	
H-13 23 38.0	
42.9N 078.2W	
h ABOUT 10KM	
WSC EPN	13 24 39.5
EPG	24 46.0
I(S)	25 35.8
CSC EP	13 25 52.5
E	26 20.0
ES	27 32.0
EL	28 14.0
RCD E(P)	13 27 49.0
EL	33 06.0
BOZ E(P)	13 28 43.0
E(L)	33 11.5
ALQ EP	13 28 49.6
I	35 54.5
HHM EP	13 29 09.5
EL	34 01.5
EUR EP	13 29 36.8
BMO E(P)	13 29 42.4
BCN EP	13 29 43.0
COL EP	13 31 44.5
JAN 1	
BMO EP	13 38 36.5
JAN 1	
COL IP	14 13 54.7
BMO EP	14 17 38.6
JAN 1	
BMO E(P)	15 05 00.8
JAN 1	
H-16 10 20.5	
09.7S 154.8E	
h ABOUT 7KM	
GUA EP	16 15 50.0
ES	19 39.0
COL EP	16 23 01.0
EUR EP	16 23 49.0

Date and Station	Phase (GCT)
	h m s
JAN 1	
BMO EP	16 20 34.0
JAN 1	
COL EP	16 42 18.0
JAN 1	
BMO EP	17 24 12.6
JAN 1	
BMO E(P)	17 27 01.7
JAN 1	
H-19 25 51.1	
00.6N 025.4W	
h ABOUT 33KM	
ALQ EP	19 38 11.5
EUR IP	19 38 49.3
BMO EP	19 38 53.0
JAN 1	
COL EP	19 55 03.0
JAN 1	
ALQ E(P)	20 01 24.6
JAN 1	
COL IP	20 05 17.8
JAN 1	
BMO EP	21 30 59.2
JAN 1	
BMO EP	22 28 33.7
JAN 1	
COL IP	23 52 01.5
JAN 2	
SLD E(P)	00 06 37.5
EL	07 28.0
JAN 2	
EUR EP	00 08 34.3
JAN 2	
H-00 13 41.8	
39.9N 104.8W	
h ABOUT 5KM	
ALQ E(P)	00 15 05.0
JAN 2	
RCD E(P)	00 16 01.0
JAN 2	
BMO E(P)	00 33 10.8
JAN 2	
EUR EP	00 49 34.9
JAN 2	
BUT IP	01 19 04.4
JAN 2	
BUT EP	02 03 27.4
IL	03 40.4
JAN 2	
EUR E(P)	03 05 40.4

Date and Station	Phase (GCT)
	h m s
JAN 2	
H-03 25 32.8	
06.4S 148.6E	
h ABOUT 52KM	
COL EP	03 38 03.0
JAN 2	
H-03 33 54.7	
16.0S 174.0W	
h ABOUT 113KM	
SLD EP	03 45 11.7
BCN EP	03 45 33.3
EUR IP	03 45 37.9
E(▸P)	46 07.3
TUC EP	03 45 38.9
BMO EP	03 45 50.0
ALQ IP	03 46 02.5
FGU EP	03 46 05.1
COL IP	03 46 08.7
IPCP	46 15.8
E▸P	46 46.2
BOZ EP	03 46 10.5
JAN 2	
H-03 53 58.2	
17.9S 069.5W	
h ABOUT 142KM	
ALQ IP	04 04 13.4
EUR IP	04 05 07.3
BMO EP	04 05 32.7
E(▸P)	06 02.0
JAN 2	
H-04 04 43.0	
31.4N 138.2E	
h ABOUT 368KM	
GUA IP	04 08 37.5
COL EP	04 13 41.0
SLD EP	04 16 10.5
EUR IP	04 16 21.5
IPCP	16 27.7
E▸P	17 48.3
FGU IP	04 16 38.5
ALQ IP	04 17 05.5
JAN 2	
H-04 52 16.1	
54.2N 164.3W	
h ABOUT 43KM	
COL EP	04 55 28.0
I	55 35.1
I	59 52.4
HHM E(P)	04 58 33.8

Date and Station	Phase (GCT)
	h m s
SLD E(P)	04 59 03.5
EUR IP	04 59 11.3
CED EP	04 59 34.4
RCD EP	04 59 49.0
TUC E(P)	05 00 16.5
ALQ EP	05 00 22.0
I	02 07.2
JAN 2	
COL EP	05 33 37.0
JAN 2	
COL IP	05 54 31.8
EUR EP	05 58 03.6
JAN 2	
FGU EPG	06 50 40.0
IL	51 16.0
JAN 2	
TUC E(P)	06 59 20.6
E	07 01 15.0
ALQ E(P)	07 00 15.5
E	02 45.3
JAN 2	
H-09 54 47.6	
17.6N 060.9W	
h ABOUT 33KM	
SJG IP	09 56 01.5
JAN 2	
BOZ E(P)	10 11 02.0
E	14 06.5
HHM EP	10 11 41.7
EL	12 42.0
BMO E(P)	10 12 31.9
E	14 23.9
EUR E(P)	10 12 58.0
RCD E(P)	10 13 24.5
JAN 2	
EUR IP	10 17 16.0
JAN 2	
H-11 16 35.3	
28.9S 070.8W	
h ABOUT 60KM	
ALQ E(P)	11 27 54.0
FGU EP	11 28 30.2
JAN 2	
COL EP	11 22 54.8
JAN 2	
H-11 51 49.4	
74.3N 071.3W	
h ABOUT 33KM	
COL IP	11 57 24.4

Date and Station	Phase (GCT)
	h m s
RCD E(P)	11 58 28.0
BMO EP	11 58 47.1
EUR IP	11 59 28.0
ALQ IP	11 59 47.5
JAN 2	
SJG IP	11 57 18.5
IS	57 33.0
JAN 2	
HHM E(P)	12 04 12.0
BUT E(P)	12 04 59.5
RCD E(P)	12 05 03.0
JAN 2	
EUR EP	13 47 05.2
JAN 2	
H-14 47 06.5	
16.6S 172.3W	
h ABOUT 33KM	
SLD EP	14 58 29.0
TUC E(P)	14 58 54.0
EUR IP	14 58 55.3
BMO EP	14 59 08.4
ALQ IP	14 59 18.4
E	15 02 51.5
COL IP	14 59 32.3
JAN 2	
SJG EP	15 13 53.8
IS	14 25.0
JAN 2	
COL EP	15 31 04.0
JAN 2	
COL EP	17 04 45.7
JAN 2	
EUR IP	17 14 47.2
JAN 2	
SJG E(P)	18 29 31.0
EL	29 57.5
JAN 2	
H-18 35 24.0	
43.8N 087.9E	
h ABOUT 37KM	
COL IP	18 45 50.8
BMO EP	18 48 17.0
EUR EP	18 48 41.0
JAN 2	
H-18 41 56.1	
23.4S 179.9W	
h ABOUT 523KM	
SLD EP	18 53 21.5

Date and Station	Phase (GCT)
	h m s
TUC EP	18 53 43.0
EUR IP	18 53 44.9
ALQ EP	18 54 03.5
FGU EP	18 54 06.7
JAN 2	
BMO EP	18 53 14.4
JAN 2	
SLD E(P)	19 52 06.7
IL	52 38.8
JAN 2	
TUC E(P)	20 03 03.6
JAN 2	
TUC E(P)	20 34 47.2
JAN 2	
EUR EP	20 45 48.0
JAN 2	
COL EP	22 22 27.5
JAN 2	
TUC EP	22 29 34.0
ES	29 53.5
JAN 2	
EUR EP	22 39 17.0
JAN 2	
COL EP	22 40 29.0
JAN 2	
H-23 12 16.7	
37.6N 023.2E	
h ABOUT 7KM	
COL EP	23 24 16.0
HHM E(P)	23 25 01.1
BMO EP	23 25 23.1
JAN 2	
ALQ E(P)	23 24 08.5
E	25 23.8
E	25 39.4
JAN 3	
EUR EP	00 01 35.0
JAN 3	
H-00 15 26.9	
26.7N 044.7W	
h ABOUT 33KM	
EUR E(P)	00 25 30.0
JAN 3	
EUR IP	00 20 12.0
JAN 3	
BMO EP	00 24 55.8
ES	25 26.9
JAN 3	
H-00 42 01.5	
23.1S 179.1E	
h ABOUT 566KM	

Date and Station	Phase (GCT)
	h m s
EUR E(P)	00 53 47.5
JAN 3	
COL EP	00 43 10.0
JAN 3	
H-01 55 59.7	
44.9N 147.1E	
h ABOUT 122KM	
COL EP	02 03 25.0
EUR IP	02 06 45.9
JAN 3	
COL EP	02 08 39.0
JAN 3	
BMO EP	02 31 41.7
JAN 3	
COL EP	02 38 03.0
JAN 3	
COL EP	03 24 36.0
EUR IP	03 25 12.1
JAN 3	
COL EP	04 34 27.0
EUR IP	04 38 05.5
JAN 3	
COL E(P)	05 12 41.4
JAN 3	
TUC E(P)	06 20 37.4
E	23 15.0
ALQ EP	06 21 15.0
E	24 34.5
EUR IP	06 22 29.2
FGU EP	06 22 32.1
RCD E(P)	06 23 09.0
BMO EP	06 23 38.1
JAN 3	
BHP E(P)	06 24 17.0
JAN 3	
BMO EP	08 16 15.4
ES	16 18.7
JAN 3	
FGU EP	08 47 20.0
JAN 3	
BMO EP	09 52 17.0
ES	52 20.3
JAN 3	
TUC E(P)	09 59 00.3
JAN 3	
COL IP	10 03 41.0
JAN 3	
EUR EP	11 17 46.0

Date and Station	Phase	(GCT)
		h m s
JAN 3		
COL	EP	11 36 03.0
JAN 3		
FUR	IP	12 58 28.2
JAN 3		
H-13 33 34.6		
20.6S 178.4W		
h ABOUT 568KM		
CED	EP	13 44 44.7
BCN	EP	13 44 59.2
FUR	IP	13 45 04.0
TUC	EP C	13 45 04.4
BMO	EP	13 45 14.4
ALQ	IP	13 45 24.7
	E▸P	47 29.4
COL	IP	13 45 26.1
FGU	EP	13 45 28.5
JAN 3		
H-15 44 44.8		
18.9S 169.4E		
h ABOUT 247KM		
KIP	EP	15 53 24.3
SLD	IP C	15 56 58.7
CED	EP	15 57 05.7
COL	IP	15 57 13.6
BCN	IP C	15 57 18.3
FUR	IP	15 57 20.7
BMO	EP	15 57 26.0
TUC	IP C	15 57 26.2
GCA	IP	15 57 30.1
ALQ	EP	15 57 45.0
BOZ	EP	15 57 45.0
SJG	EP'	16 03 20.0
JAN 3		
BMO	E(P)	16 14 40.4
JAN 3		
EUR	IP	17 26 09.2
JAN 3		
FUR	IP	17 30 51.2
JAN 3		
H-18 16 04.3		
4.6N 076.0W		
h ABOUT 91KM		
BHP	IP	18 17 24.3
SJG	EP	18 19 50.0
	EL	22 49.5
ALQ	IP	18 23 43.5
	I	29 21.5
TUC	EP	18 23 54.0
GCA	E(P)	18 24 19.2
	E(▸P)	24 40.7
RCD	EP	18 24 20.0
	E▸P	24 42.0
FGU	EP	18 24 28.0
	E	24 56.0
BCN	EP	18 24 34.0
EUR	IP	18 24 52.0
BOZ	EP	18 25 00.0
	E▸P	25 22.5
BUT	EP	18 25 08.0
	E	25 28.0
BMO	EP	18 25 20.1
COL	IP	18 27 54.0
JAN 3		
HHM	E(P)	18 24 43.3
JAN 3		
EUR	E(P)	18 29 58.2
JAN 3		
SIT	E(P)	18 36 31.8
EUR	EP	18 36 49.1
	E	37 45.2
BCN	EP	18 41 14.8
JAN 3		
EUR	E(P)	18 45 20.2
JAN 3		
BMO	EP	18 53 54.4
JAN 3		
BMO	EP	19 14 42.1
JAN 3		
BMO	EP	19 37 39.0
	ES	37 51.9
JAN 3		
COL	EP	20 16 15.0
JAN 3		
EUR	EP	20 55 43.4
JAN 3		
COL	EP	21 33 03.0
JAN 3		
BCN	E(P)	21 45 06.0
JAN 3		
BMO	EP	22 00 57.6
	ES	01 23.8
JAN 3		
EUR	E(P)	23 03 47.5
	IL	04 35.6
JAN 3		
EUR	IP	23 03 52.8
JAN 3		
KIP	E(P)	23 30 06.4
JAN 3		
BMO	IP	23 42 10.6
	IS	42 18.3
JAN 3		
H-23 48 52.6		
11.3S 166.2E		
h ABOUT 172KM		
COL	IP	24 01 00.8
JAN 3		
EUR	IP	23 52 31.6
JAN 4		
BMO	EP	00 35 27.1
	E(S)	35 50.9
JAN 4		
BMO	EP	01 37 01.9
JAN 4		
H-02 40 52.7		
18.9N 108.0W		
h ABOUT 33KM		
ALQ	IP	02 44 41.5
BCN	EP	02 45 03.1
GCA	EP	02 45 05.6
EUR	IP	02 45 43.0
FGU	EP	02 45 45.5
BMO	E(P)	02 46 32.5
JAN 4		
H-02 48 47.3		
29.2N 127.3E		
h ABOUT 32KM		
COL	E(P)	02 59 05.0
BMO	EP	03 01 24.5
EUR	IP	03 01 44.3
FGU	EP	03 01 58.2
JAN 4		
EUR	EP	03 04 29.3
JAN 4		
COL	IP	03 45 24.0
JAN 4		
BMO	EP	04 10 24.2
JAN 4		
H-06 29 23.7		
22.2S 070.0W		
h ABOUT 27KM		
SJG	E(P)	06 37 04.5
	I	37 10.5
ALQ	IP	06 40 13.5
TUC	EP	06 40 14.5
EUR	IP	06 41 04.4
BMO	EP	06 41 29.6
HHM	EP	06 41 34.7
JAN 4		
BMO	E(P)	06 32 56.8
JAN 4		
BMO	EP	06 59 36.3
	IS	59 40.0
JAN 4		
H-07 47 00.1		
12.0N 095.4E		
h ABOUT 33KM		
COL	EP	08 00 00.0
ALQ	EP'	08 06 08.5
JAN 4		
BMO	IP	08 02 09.1
	ES	02 13.8
JAN 4		
BMO	E(P)	08 06 46.7
JAN 4		
COL	IP	08 34 59.6
JAN 4		
BMO	IP	08 37 26.8
	IS	37 29.9
EUR	IP	08 38 34.1
JAN 4		
BMO	EP	08 39 56.2
JAN 4		
COL	EP	08 38 43.0
JAN 4		
COL	IP	08 40 04.8
JAN 4		
COL	EP	08 53 06.0
JAN 4		
H-09 00 38.3		
12.3N 141.3E		
h ABOUT 33KM		
GUA	EP	09 01 33.0
	IS	02 31.0
COL	EP	09 11 53.0
BMO	EP	09 13 33.8
JAN 4		
COL	EP	09 09 28.0
JAN 4		
KIP	E(P)	09 12 22.0

Date and Station	Phase (GCT)
	h m s
JAN 4	
BMO EP	10 34 53.5
JAN 4	
FGU IP	10 49 33.3
IS	49 44.5
JAN 4	
H-12 48 13.4	
15.3S 070.9W	
h ABOUT 184KM	
ALQ IP	12 58 04.8
E▸P	58 51.0
TUC EP	12 58 08.1
BCN EP	12 58 41.5
RCD EP	12 58 42.0
E	58 48.5
CED EP	12 58 43.6
FGU IP D	12 58 44.9
FUR IP	12 59 00.8
I▸P	59 48.7
BUT EP	12 59 17.2
BMO EP	12 59 26.3
HHM EP	12 59 30.6
COL IP	13 01 30.5
JAN 4	
COL EP	13 04 44.0
JAN 4	
H-14 51 46.6	
24.5S 067.4W	
h ABOUT 33KM	
ALQ EP	15 02 56.0
TUC EP	15 02 57.0
FUR EP	15 03 45.0
BMO EP	15 04 08.9
JAN 4	
H-15 04 51.5	
11.5N 044.0W	
h ABOUT 33KM	
TUC EP	15 15 27.5
BMO E(P)	15 16 09.4
COL IP	15 17 27.3
JAN 4	
COL IP	15 19 32.0
JAN 4	
BHP EP	15 22 08.6
IS	22 45.0
JAN 4	
BHP EP	15 22 08.6
IS	22 45.0

Date and Station	Phase (GCT)
	h m s
JAN 4	
FGU EP	15 57 44.0
JAN 4	
COL E(P)	16 01 36.0
JAN 4	
H-16 20 20.1	
40.7S 089.3W	
h ABOUT 33KM	
TUC EP	16 32 00.8
E	32 07.0
ALQ EP	16 32 10.6
JAN 4	
TUC E(P)	16 27 37.6
JAN 4	
COL EP	18 13 57.0
JAN 4	
BMO EP	19 17 16.8
COL EP	19 17 24.0
JAN 4	
BMO EP	19 17 16.8
JAN 4	
FUR EP	19 20 39.2
JAN 4	
SJG IP	19 27 35.0
IS	27 57.5
JAN 4	
EUR IP	19 46 10.0
JAN 4	
COL EP	19 52 21.0
JAN 4	
FUR EP	19 46 10.0
IL	46 46.2
JAN 4	
COL EP	20 13 58.0
JAN 4	
FUR IP	20 23 14.5
JAN 4	
COL EP	20 23 38.0
JAN 4	
FUR IP	20 23 14.5
E	24 34.8
JAN 4	
BCN IP	21 18 18.9
IS	18 22.3
JAN 4	
BMO EP	21 58 16.0
JAN 4	
COL EP	22 10 47.0
JAN 4	
COL EP	23 09 32.0
FUR IP	23 13 57.8

Date and Station	Phase (GCT)
	h m s
JAN 4	
SJG IP	23 25 21.5
IS	25 35.3
JAN 4	
BMO IP	23 31 55.5
IS	58.0
JAN 4	
ALQ EP	23 32 46.8
I	32 52.0
JAN 4	
TUC E(P)	23 39 57.0
JAN 5	
BMO IP	00 12 53.1
I(S)	12 56.2
JAN 5	
BMO EP	00 19 27.5
E(S)	19 58.1
JAN 5	
H-00 25 41.9	
23.3S 070.1W	
h ABOUT 33KM	
ALQ E(P)	00 36 37.0
TUC EP	00 36 38.2
BMO EP	00 37 52.3
JAN 5	
BMO EP	00 36 38.1
ES	37 02.8
JAN 5	
ALQ IP	00 38 51.0
I	39 55.0
JAN 5	
H-00 37 17.8	
39.8N 104.7W	
h ABOUT 5KM	
FGU EP	00 38 18.0
I	38 23.2
IL	39 10.5
RCD E(P)	00 38 40.5
EL	39 41.0
EUR I(P)	00 39 39.0
BMO E(P)	00 39 52.0
JAN 5	
GCA EP	00 39 10.1
TUC E(P)	00 40 04.0
E	41 55.6
JAN 5	
BCN EP	00 40 01.4
JAN 5	
TUC E(P)	02 20 37.3
JAN 5	
TUC E(P)	02 53 54.7

Date and Station	Phase (GCT)
	h m s
JAN 5	
H-03 04 48.4	
12.5N 123.6E	
h ABOUT 33KM	
COL EP	03 16 51.0
JAN 5	
TUC E(P)	03 12 54.2
JAN 5	
COL EP	04 53 38.0
JAN 5	
COL E(P)	05 27 06.5
JAN 5	
H-05 46 50.8	
35.7N 141.1E	
h ABOUT 55KM	
BRW IP	05 55 24.0
E	55 32.6
COL EP	05 55 44.0
HHM EP	05 58 16.1
BMO IP	05 58 16.7
SLD EP	05 58 26.5
EUR I(P)	05 58 39.2
BCN EP	05 58 54.5
TUC EP	05 59 19.0
ALQ IP	05 59 25.5
JAN 5	
BCN IP	05 49 16.0
I	49 17.6
JAN 5	
EUR IP	05 56 42.1
JAN 5	
EUR EP	05 56 42.1
E	57 44.0
JAN 5	
BMO E(P)	06 52 32.5
JAN 5	
H-07 01 57.7	
51.2N 178.1W	
h ABOUT 33KM	
COL IP	07 06 38.8
BRW IP	07 06 55.4
BMO EP	07 09 32.1
HHM EP	07 09 32.4
EUR IP	07 10 03.8
BCN E(P)	07 10 29.5
E	10 38.0
RCD EP	07 10 42.5

Date and Station	Phase (GCT)
	h m s
TUC E(P)	07 11 03.1
ALQ E(P)	07 11 16.9
JAN 5	
BMO EP	07 02 55.3
JAN 5	
H-07 48 29.6	
20.1S 175.8W	
h ABOUT 233KM	
TUC EP	08 00 22.0
E▸P	01 14.0
BMO IP	08 00 33.9
ALQ EP	08 00 43.8
COL IP	08 00 50.4
JAN 5	
COL E(P)	08 01 44.2
JAN 5	
COL EP	10 07 15.0
EUR EP	10 07 52.0
JAN 5	
H-10 26 32.3	
36.7N 071.2E	
h ABOUT 188KM	
COL IP	10 37 50.6
JAN 5	
H-11 00 05.9	
62.6N 149.6W	
h ABOUT 131KM	
COL IP	11 00 46.2
BRW IP	11 02 16.5
HHM EP	11 05 12.5
E	05 21.0
BMO E(P)	11 05 25.7
EUR E(P)	11 06 13.0
JAN 5	
TUC E(P)	11 56 24.6
JAN 5	
UKI EP	12 15 51.5
JAN 5	
EUR IP	12 48 01.0
JAN 5	
SJG E(P)	13 30 05.0
EL	30 44.5
JAN 5	
TUC E(P)	14 40 10.0
JAN 5	
COL EP	14 57 15.0
JAN 5	
COL IP	15 03 40.5

Date and Station	Phase (GCT)
	h m s
JAN 5	
COL EP	15 45 38.0
JAN 5	
COL E(P)	16 01 05.0
JAN 5	
EUR EP	16 55 37.3
JAN 5	
H-17 21 27.9	
13.2N 095.5E	
h ABOUT 33KM	
BRW EP	17 33 51.8
I	33 58.4
I	34 15.2
EPP	37 35.3
COL EP	17 34 25.0
FGU EP'	17 40 30.2
TUC EP'	17 40 33.9
ALQ EP'	17 40 40.0
BMO EP'	17 40 40.4
JAN 5	
COL EP	17 53 49.0
BRW EP	17 53 58.7
I	54 11.8
EUR E(P)	17 55 52.9
E	56 26.0
JAN 5	
BMO E(P)	17 58 42.8
JAN 5	
COL IP	17 58 52.4
JAN 5	
H-18 10 00.9	
21.8N 146.8E	
h ABOUT 35KM	
GUA E(P)	18 12 03.0
BRW IP	18 19 58.3
I▸P	20 08.8
COL EP	18 20 04.0
SLD IP D	18 22 01.7
I▸P	22 12.1
BMO EP	18 22 02.9
HHM IP	18 22 08.1
I▸P	22 18.7
BUT IP	18 22 17.1
EUR IP	18 22 17.8
I▸P	22 28.0
E	25 24.1
BOZ IP	18 22 21.5
E▸P	22 32.0

Date and Station	Phase (GCT)
	h m s
BCN IP D	18 22 29.1
I▸P	22 39.4
SLC EP	18 22 29.9
FGU IP	18 22 38.1
I▸P	22 48.8
GCA IP	18 22 38.7
I▸P	22 49.6
RCD EP	18 22 50.5
TUC IP D	18 22 54.5
E▸P	23 02.0
ALQ EP	18 23 01.5
I▸P	23 12.2
JAN 5	
RCD EP	18 15 29.5
JAN 5	
BMO E(P)	19 05 44.4
JAN 5	
ALQ E(P)	19 30 51.8
JAN 5	
BMO EP	20 06 27.6
JAN 5	
TUC E(P)	20 09 36.1
EL	10 26.4
JAN 5	
BMO EP	20 05 37.6
JAN 5	
HHM EP	20 11 49.6
E	12 15.6
JAN 5	
EUR E(P)	20 39 34.5
E	40 28.1
JAN 5	
H-20 45 52.3	
38.2N 069.1E	
h ABOUT 18KM	
COL EP	20 57 23.0
JAN 5	
COL EP	20 52 29.0
JAN 5	
BMO E(P)	21 28 31.7
JAN 5	
BMO E(P)	21 39 36.4
JAN 5	
BMO E(P)	21 44 28.1
JAN 5	
BMO E(P)	22 01 59.3
JAN 5	
BMO EP	23 07 30.7
JAN 5	
BMO EP	23 26 35.6
E(S)	27 00.8

Date and Station	Phase (GCT)
	h m s
JAN 5	
KIP E(P)	23 30 22.7
JAN 6	
BMO EP	00 38 16.8
JAN 6	
RCD EP	03 43 52.0
JAN 6	
H-04 19 59.0	
06.8N 073.0W	
h ABOUT 167KM	
BHP IP	04 21 39.0
IS	22 48.0
SJG IP	04 22 56.1
IS	25 12.5
ALQ IP	04 27 33.2
TUC IP D	04 27 47.2
RCD EP	04 28 03.8
E(▸P)	28 55.0
GCA IP D	04 28 11.2
	28 20.6
FGU EP	04 28 15.5
BCN IP D	04 28 24.2
SLC EP	04 28 26.5
CED EP	04 28 32.4
EUR IP	04 28 41.8
I	28 45.5
E(PP)	30 37.7
SLD IP D	04 29 02.1
BMO IP	04 29 06.9
HHM EP	04 29 08.1
COL IP	04 31 37.3
BRW I(P)	04 32 59.1
JAN 6	
BMO E(P)	04 33 38.2
JAN 6	
TUC E(P)	05 12 19.4
JAN 6	
COL EP	05 21 40.0
BMO EP	05 25 34.5
JAN 6	
BMO EP	05 26 46.4
JAN 6	
GOU EP	05 28 16.0
JAN 6	
BMO E(P)	05 38 53.8

Date and Station	Phase (GCT)
	h m s
JAN 6	
BMO E(P)	05 38 53.8
JAN 6	
BMO E(P)	05 46 34.2
JAN 6	
BMO E(P)	05 48 10.4
JAN 6	
BMO E(P)	05 48 10.4
JAN 6	
H-05 58 01.9	
60.2N 146.5W	
h ABOUT 33KM	
COL IP	05 59 11.0
BMO EP	06 09 08.0
JAN 6	
COL IP	06 22 59.2
JAN 6	
BMO E(P)	06 29 12.5
JAN 6	
BMO F(P)	06 29 12.5
JAN 6	
BMO IP	06 39 38.9
IS	39 41.3
JAN 6	
COL EP	07 23 03.0
JAN 06	
SJG IP	07 31 14.5
IS	31 25.0
JAN 6	
SJG IP	09 19 30.0
IS	19 46.1
JAN 6	
COL E(P)	11 07 49.5
EUR E(P)	11 11 24.1
E	13 21.9
JAN 6	
BHP E(P)	11 45 20.0
EUR E(P)	11 52 17.0
JAN 6	
H-12 16 06.8	
60.4N 146.9W	
h ABOUT 62KM	
COL IP	12 17 15.1
BRW EP	12 18 53.0
I	19 05.5
EL	23 06.1
BMO IP	12 21 12.3
JAN 6	
BMO EP	12 44 24.6

Date and Station	Phase (GCT)
	h m s
JAN 6	
COL EP	12 45 26.0
JAN 6	
BMO EP	13 02 13.9
JAN 6	
COL EP	13 13 35.0
JAN 6	
BHP IP	13 15 18.7
IS	15 26.8
JAN 6	
TUC E(P)	13 31 58.0
JAN 6	
BHP IP	14 06 45.0
IS	06 53.0
JAN 6	
BMO IP	14 47 41.9
JAN 6	
COL EP	15 06 42.0
JAN 6	
EUR EP	15 20 10.3
JAN 6	
COL EP	16 22 09.0
EUR IP	16 24 57.8
JAN 6	
H-16 35 59.7	
32.3N 141.3E	
h ABOUT 87KM	
BRW IP	16 44 52.7
COL IP	16 45 10.9
BMO E(P)	16 47 44.4
JAN 6	
BMO IP	17 02 43.3
JAN 6	
COL EP	17 05 08.0
JAN 6	
EUR IP	18 01 48.2
JAN 6	
EGU IP C	18 30 28.8
IS	30 36.0
JAN 6	
H-18 37 46.7	
26.7N 109.8W	
h ABOUT 33KM	
TUC EP	18 39 09.6
EL	41 09.5
ALQ E(P)	18 40 04.0
EL	42 36.5
GCA EP	18 40 22.6
EUR I(P)	18 41 12.1
BMO E(P)	18 42 10.8

Date and Station	Phase (GCT)
	h m s
JAN 6	
TUC F(P)	18 51 30.0
JAN 6	
COL EP	20 10 05.0
JAN 6	
BMO EP	20 18 01.0
ES	18 32.9
JAN 6	
BMO EP	20 24 52.2
JAN 6	
EUR F(P)	21 18 19.5
JAN 6	
BCN IP	22 01 52.3
IS	01 56.0
JAN 6	
EUR E(P)	22 14 36.5
JAN 6	
EUR IP	22 14 52.5
JAN 6	
BMO EP	23 09 01.2
F(S)	09 25.0
JAN 6	
BMO EP	23 43 30.7
ES	44 00.8
JAN 6	
BMO E(P)	23 54 54.5
JAN 7	
BMO EP	00 02 37.7
JAN 7	
COL EP	00 02 52.0
JAN 7	
BMO EP	00 37 34.0
JAN 7	
COL EP	03 17 19.0
JAN 7	
COL EP	04 30 30.0
JAN 7	
UKI E(P)	04 41 30.0
JAN 7	
COL EP	06 15 24.0
JAN 7	
EUR EP	07 14 25.0
JAN 7	
EUR IP	07 24 35.5
JAN 7	
H-07 45 24.2	
52.6N 160.1E	
h ABOUT 63KM	
BRW IP	07 51 00.7
COL EP	07 51 16.0
BMO EP	07 54 30.3

Date and Station	Phase (GCT)
	h m s
SLD EP	07 54 53.5
EUR IP	07 55 02.2
IPCP	55 57.0
CED EP	07 55 22.3
BCN IP	07 55 24.3
RCD IP D	07 55 27.5
TUC EP	07 55 57.0
ALQ IP	07 56 00.7
I	56 33.6
JAN 7	
TUC EP	08 28 41.4
JAN 7	
BMO E(P)	10 22 01.1
JAN 7	
TUC E(P)	11 26 16.1
EL	27 35.0
EUR F(P)	11 27 53.0
ALQ E(P)	11 28 06.4
E	29 32.5
JAN 7	
BMO F(P)	12 18 26.0
JAN 7	
TUC E(P)	12 44 17.3
JAN 7	
COL FP	13 57 35.5
EUR FP	13 58 13.6
JAN 7	
ALQ FP	14 05 57.2
BCN EP	14 06 31.4
F	06 37.0
JAN 7	
H-14 32 24.5	
16.9N 119.7E	
h ABOUT 44KM	
COL FP	14 44 06.0
JAN 7	
TUC F(P)	14 52 35.5
FL	53 51.5
EUR E(P)	14 54 29.0
JAN 7	
H-14 57 43.7	
05.2S 152.6E	
h ABOUT 47KM	
GUA FP	15 02 18.0
FS	06 02.0
COL IP	15 10 00.6
BRW IP	15 10 06.1
I	10 16.3
E	11 10.8

Date and Station	Phase	(GCT)
		h m s
BMO	EP	15 10 56.4
EUR	IP	15 10 59.8
BCN	E(P)	15 11 04.0
SJG	EP'	15 17 11.4
JAN 7		
EUR	EP	17 31 16.1
JAN 7		
BUT	EP	17 49 42.7
	IL	50 00.7
AMM	IP	17 49 44.8
	IL	50 05.8
BMO	EP	17 50 16.2
	E(S)	51 08.0
JAN 7		
H-18 15 44.1		
31.4S 178.3W		
h ABOUT 33KM		
BCN	E(P)	18 28 40.5
EUR	EP	18 28 46.0
JAN 7		
EUR	EP	18 40 07.0
JAN 7		
H-19 10 22.7		
33.2N 116.2W		
h ABOUT 17KM		
CED	IP	19 10 48.2
	IS	11 06.0
BCN	EP	19 11 11.1
	I	11 19.8
	IL	11 57.6
TUC	EP	19 11 33.0
	EL	13 05.0
GCA	E(P)	19 11 44.5
	IL	13 09.5
EUR	IP	19 11 57.2
	I	12 21.9
ALQ	E(P)	19 12 28.5
	IL	14 44.7
BMO	E(P)	19 13 10.7
JAN 7		
H-20 17 13.7		
62.6S 155.6E		
h ABOUT 33KM		
EUR	IP'	20 36 13.7
BMO	EP'	20 36 17.5
COL	EP'	20 36 28.0
JAN 7		
COL	EP	20 53 13.0
JAN 7		
BMO	EP	21 05 23.4
JAN 7		
KIP	IP	21 26 03.7
JAN 7		
FGU	EP	22 25 51.5
	IS	26 12.2
JAN 7		
BCN	IP	22 30 13.0
	IS	30 25.5
JAN 7		
BCN	E(P)	22 41 45.5
	E	41 54.0
	EL	42 22.0
EUR	E(P)	22 42 39.0
JAN 7		
SJG	IP	22 50 49.9
	IS	51 18.4
JAN 7		
BMO	EP	23 15 11.5
JAN 7		
EUR	IP	23 29 29.9
	I	29 50.1
JAN 8		
BCN	EP	00 18 09.0
	ES	18 29.5
EUR	IP	00 18 44.5
JAN 8		
H-01 06 04.6		
15.7N 122.9E		
h ABOUT 67KM		
BRW	IP	01 17 24.0
	E>P	17 35.1
COL	IP	01 17 43.7
BMO	EP	01 19 36.8
JAN 8		
BMO	E(P)	02 57 57.7
JAN 8		
KIP	E(P)	03 25 19.1
JAN 8		
COL	EP	03 35 13.9
JAN 8		
H-04 07 41.3		
25.4S 179.1W		
h ABOUT 387KM		
SLD	EP	04 19 24.3
BCN	EP	04 19 41.1
	E	20 09.5
TUC	IP C	04 19 45.2
EUR	EP	04 19 45.6
BMO	EP	04 19 57.7
ALQ	EP	04 20 04.5
FGU	EP	04 20 09.3
COL	EP	04 20 12.0
JAN 8		
COL	EP	04 25 15.0
JAN 8		
H-05 29 54.4		
30.7N 113.9W		
h ABOUT 33KM		
TUC	EP	05 30 40.5
	EL	31 39.0
BCN	EP	05 31 14.0
	E	31 54.5
	EL	32 35.0
ALQ	E(P)	05 31 44.2
	E(L)	34 01.7
EUR	EP	05 32 07.8
	E(L)	34 58.0
BMO	E(P)	05 33 16.5
COL	EP	05 37 30.5
JAN 8		
CED	IP	05 31 24.9
	IS	31 42.3
JAN 8		
TUC	EP	05 40 21.8
	EL	41 17.0
BCN	E(P)	05 40 54.5
EUR	E(P)	05 42 14.0
JAN 8		
TUC	E(P)	05 55 25.0
JAN 8		
TUC	EP	06 23 41.5
	EL	24 54.0
ALQ	EP	06 24 43.2
	I	27 02.5
GCA	E(P)	06 24 49.8
	IL	27 30.3
EUR	EP	06 25 37.1
	E	29 13.0
JAN 8		
H-06 54 11.1		
19.4N 121.9E		
h ABOUT 12KM		
BRW	EP	07 05 17.5
COL	E(P)	07 05 44.2
JAN 8		
H-08 00 55.2		
36.6N 140.8E		
h ABOUT 74KM		
EUR	EP	08 12 39.5
BCN	E(P)	08 13 08.5
	E	13 16.0
ALQ	E(P)	08 13 25.0
JAN 8		
BMO	E(P)	08 08 24.5
JAN 8		
EUR	E(P)	09 19 43.2
JAN 8		
H-09 21 19.9		
20.3S 177.7W		
h ABOUT 469KM		
TUC	EP	09 32 55.0
COL	IP	09 33 18.0
JAN 8		
COL	EP	10 08 20.0
JAN 8		
H-11 04 01.9		
38.6N 117.8W		
h ABOUT 33KM		
EUR	IP	11 04 29.8
BCN	E(P)	11 04 54.3
	E	05 09.5
	EL	05 57.0
SLD	E(P)	11 04 56.0
	IL	05 36.5
JAN 8		
COL	E(P)	11 17 11.5
JAN 8		
H-11 38 34.9		
17.1N 085.8W		
h ABOUT 33KM		
CSC	E(P)	11 42 26.0
	E	42 38.0
SJG	EP	11 42 56.0
ALQ	IP	11 44 03.5
	E(S)	48 44.0
	E	50 04.7
BCN	EP	11 45 00.0
	E	45 08.4
JAN 8		
BCN	E(P)	13 18 16.5
	E	18 20.3
	E	18 30.4
EUR	E(P)	13 18 24.5
TUC	EP	13 18 27.0
	E	18 37.0

Date and Station	Phase (GCT)
	h m s
COL EP	13 18 43.0
E	18 52.0
JAN 8	
BMO EP	13 46 10.6
EUR E(P)	13 46 34.0
JAN 8	
BMO EP	13 46 10.6
JAN 8	
BRW E(P)	14 24 09.0
JAN 8	
COL EP	14 46 24.0
JAN 8	
H-15 29 26.1	
8.8N 039.7W	
h ABOUT 33KM	
BMO E(P)	15 41 02.2
JAN 8	
EUR IP	16 20 22.5
JAN 8	
COL IP	16 46 21.0
JAN 8	
EUR IP	19 39 15.0
JAN 8	
EUR E(P)	19 43 19.1
JAN 8	
EUR IP	19 58 38.2
JAN 8	
H-20 00 36.0	
8.0N 036.8W	
h ABOUT 33KM	
EUR E(P)	20 12 32.2
BMO E(P)	20 12 36.0
JAN 8	
COL IP	20 17 31.9
JAN 8	
H-20 30 14.2	
56.7N 156.5W	
h ABOUT 33KM	
COL EP	20 32 27.0
EUR EP	20 36 34.6
JAN 8	
GCA EP	21 19 44.6
EL	20 38.9
BCN EP	21 20 07.0
BMO E(P)	21 20 12.4
JAN 8	
COL EP	22 01 53.0
JAN 8	
EUR EP	22 19 19.7

Date and Station	Phase (GCT)
	h m s
JAN 8	
H-22 22 32.2	
31.6N 137.8E	
h ABOUT 421KM	
BRW IP	22 31 06.3
COL EP D	22 31 25.0
E	32 11.0
SLD IP	22 33 54.9
BOZ EP	22 34 02.5
EUR IP	22 34 06.1
E>P	35 37.5
FGU EP	22 34 22.8
ALQ EP	22 34 49.4
JAN 8	
H-22 39 18.9	
37.2N 138.4E	
h ABOUT 16KM	
BRW IP	22 47 51.9
COL IP	22 48 15.7
BMO EP	22 50 53.0
BUT IP	22 51 04.7
SLD EP	22 51 06.0
BOZ IP	22 51 09.5
EUR IP	22 51 16.2
FGU EP	22 51 32.1
F	52 09.4
BCN EP	22 51 33.0
ALQ IP	22 52 02.8
JAN 9	
H-00 03 20.6	
37.0N 121.4W	
h ABOUT 16KM	
SLD I(P)	00 03 24.9
IS	03 28.4
JAN 9	
EUR EP	00 04 55.7
JAN 9	
H-00 08 00.8	
37.0N 121.3W	
h ABOUT 16KM	
SLD IP D	00 08 05.3
IS	08 08.5
JAN 9	
EUR IP	00 09 34.1
JAN 9	
EUR EP	00 09 34.1
ES	10 37.7

Date and Station	Phase (GCT)
	h m s
JAN 9	
COL IP	00 16 16.5
JAN 9	
GUA EP	00 24 54.0
ES	25 13.4
JAN 9	
BMO EP	00 23 34.5
JAN 9	
BMO EP	01 08 45.8
JAN 9	
BMO EP	01 11 36.7
JAN 9	
KIP E(P)	01 25 38.8
JAN 9	
BMO EP	01 32 51.5
JAN 9	
EUR IP	01 38 02.0
JAN 9	
KIP EP	01 41 38.0
JAN 9	
EUR IP	01 59 12.8
JAN 9	
BMO E(P)	02 05 03.5
JAN 9	
BMO EP	02 13 31.0
JAN 9	
H-03 04 03.6	
5.4S 113.7E	
h ABOUT 63KM	
BRW EP	03 17 21.2
I	17 34.5
EPP	21 13.1
COL EP	03 17 36.0
BMO EP'	03 22 50.6
BCN EP'	03 23 03.0
ALQ EP'	03 23 16.5
JAN 9	
EUR IP	03 22 10.2
JAN 9	
EUR IP	03 30 37.4
JAN 9	
EUR EP	03 49 21.7
JAN 9	
BMO EP	03 55 59.6
JAN 9	
BMO EP	04 00 45.1
JAN 9	
H-04 06 29.8	
21.5S 069.7W	
h ABOUT 57KM	

Date and Station	Phase (GCT)
	h m s
SJG E(P)	04 13 54.5
ALQ EP	04 17 13.5
BCN E(P)	04 17 51.5
EUR E(P)	04 18 05.2
BMO EP	04 18 29.5
JAN 9	
COL EP	04 33 19.0
JAN 9	
BMO EP	04 33 28.9
JAN 9	
H-04 50 52.5	
41.2N 029.3W	
h ABOUT 33KM	
BMO EP	05 01 10.1
EUR E(P)	05 01 23.0
BCN EP	05 01 32.2
JAN 9	
EUR IP	05 57 14.1
JAN 9	
BMO EP	06 06 52.4
JAN 9	
EUR IP	06 10 10.0
BMO EP	06 10 41.4
JAN 9	
BMO EP	07 03 25.9
JAN 9	
BCN EP	07 18 16.2
ES	18 34.4
GCA IP	07 18 20.0
IS	18 41.0
EUR EP	07 18 39.8
JAN 9	
COL EP	08 30 49.1
BMO EP	08 34 17.9
JAN 9	
H-09 11 30.6	
11.4N 062.3W	
h ABOUT 162KM	
SJG EP	09 13 21.6
IS	14 45.0
IL	15 11.0
BHP IP C	09 15 23.7
ALQ IP	09 19 43.1
ISCS	24 53.2
RCD EP	09 19 53.0
EPCP	21 19.5
FGU EP	09 20 13.5

Date and Station	Phase	Phase (GCT) h m s
GCA	EP	09 20 18.3
SLC	EP	09 20 27.6
	E▸P	21 06.2
	E	21 33.0
BCN	IP C	09 20 35.4
	I▸P	21 12.7
	IPP	22 30.0
BOZ	IP	09 20 39.5
EUR	IP	09 20 46.2
	I▸P	21 24.9
	I▸P	21 46.1
	EPP	23 27.8
CED	EP	09 20 46.6
BUT	IP	09 20 47.4
HHM	EP	09 20 58.2
BMO	EP	09 21 03.2
SLD	EP	09 21 11.5
COL	EP	09 23 11.0
BRW	IP	09 23 26.6
	E	24 11.9
JAN 9		
COL	E(P)	09 55 03.0
EUR	I(P)	09 58 38.5
JAN 9		
H-09 52 45.5		
54.2N 164.4W		
h ABOUT 63KM		
COL	IP	09 56 02.7
BRW	EP	09 56 47.4
BMO	EP	09 59 04.0
EUR	IP	09 59 37.8
	I	59 40.9
	IPP	10 01 15.9
BCN	EP	10 00 03.6
	I	00 07.5
RCD	E(P)	10 00 13.0
GCA	EP	10 00 15.8
ALQ	EP	10 00 52.5
	E(PP)	02 37.7
JAN 9		
COL	EP	10 22 37.0
JAN 9		
KIP	E(P)	10 32 26.8
	I	33 28.5
JAN 9		
H-10 51 10.0		
54.2N 164.1W		
h ABOUT 33KM		
EUR	IP	10 58 04.6
JAN 9		
BMO	EP	11 22 23.3
JAN 9		
COL	IP	11 54 29.1
JAN 9		
H-12 08 24.7		
56.9S 158.9E		
h ABOUT 33KM		
BMO	EP'	12 27 17.8
BOZ	EP'	12 27 26.5
JAN 9		
BMO	EP	12 17 36.0
JAN 9		
COL	EP	12 24 34.0
JAN 9		
COL	EP	12 46 10.0
JAN 9		
COL	EP	12 59 37.0
JAN 9		
BMO	EP	13 10 26.4
JAN 9		
COL	EP	13 22 07.0
	E	22 25.9
BMO	EP	13 25 44.3
JAN 9		
COL	EP	13 22 26.0
JAN 9		
COL	EP	13 32 56.0
JAN 9		
COL	E(P)	13 49 09.6
JAN 9		
BMO	EP	16 01 05.2
JAN 9		
H-16 03 16.6		
54.2N 164.8W		
h ABOUT 78KM		
COL	EP	16 06 28.0
BRW	EP	16 07 22.7
JAN 9		
BMO	EP	16 25 23.5
JAN 9		
EUR	EP	16 33 13.0
JAN 9		
EUR	E(P)	16 40 17.9
JAN 9		
BMO	EP	16 47 55.3
JAN 9		
COL	EP	17 50 41.0
JAN 9		
COL	EP	18 05 00.0
JAN 9		
BMO	EP	18 12 54.8
JAN 9		
BMO	E(P)	18 14 23.8
JAN 9		
SJG	IP	18 50 22.6
	IS	50 41.8
JAN 9		
BMO	EP	19 06 47.2
JAN 9		
BMO	EP	19 41 05.8
JAN 9		
BMO	E(P)	20 06 27.8
JAN 9		
H-20 16 53.4		
10.8S 075.6W		
h ABOUT 33KM		
BCN	E(P)	20 26 55.0
	E	27 03.0
EUR	E(P)	20 27 16.5
COL	EP	20 30 05.0
JAN 9		
EUR	IP	20 38 43.8
JAN 9		
BMO	EP	20 48 04.2
JAN 9		
EUR	IP	21 26 26.4
JAN 9		
COL	IP	23 03 59.8
BRW	EP	23 05 26.6
JAN 9		
H-23 23 09.8		
32.2S 179.6W		
h ABOUT 179KM		
EUR	E(P)	23 35 01.4
JAN 9		
COL	E(P)	23 33 11.5
JAN 9		
COL	EP	23 40 13.0
	E	40 33.0
JAN 9		
BMO	E(P)	23 49 08.9
JAN 10		
H-00 00 45.7		
16.2N 094.5W		
h ABOUT 140KM		
ALQ	EP	00 05 24.0
TUC	E(P)	00 05 27.0
COL	EP	00 10 41.0
JAN 10		
H-00 17 11.5		
54.1N 164.6W		
h ABOUT 33KM		
COL	EP	00 20 26.0
BRW	E(P)	00 21 25.3
BMO	EP	00 23 34.5
EUR	IP	00 24 08.2
BCN	EP	00 24 36.5
	E	24 43.3
	E	24 51.0
JAN 10		
EUR	E(P)	01 08 07.8
BMO	EP	01 08 45.8
JAN 10		
EUR	IP	01 09 55.0
JAN 10		
TUC	E(P)	01 16 19.6
JAN 10		
GUA	EP	01 24 45.0
	ES	28 12.0
JAN 10		
H-01 19 10.8		
13.8N 120.7E		
h ABOUT 124KM		
BRW	IP	01 30 38.8
	E▸P	31 03.0
KIP	IP D	01 30 55.3
COL	IP	01 30 58.2
BMO	EP	01 32 51.5
EUR	EP'	01 37 29.1
BCN	EP'	01 37 38.5
	E	37 45.6
JAN 10		
SLD	EP	01 37 12.0
TUC	E(P)	01 38 23.0
JAN 10		
EUR	EP	01 49 04.4
JAN 10		
BMO	EP	02 13 31.0
JAN 10		
SLD	EP	02 49 11.4
	I	49 12.4
	IL	49 37.2
EUR	IP	02 49 26.5

Date and Station	Phase (GCT)
	h m s
JAN 10	
BCN EP	02 50 48.8
ES	51 10.3
JAN 10	
BMO EP	04 00 45.1
JAN 10	
HHM E(P)	04 32 26.3
BMO EP	04 33 28.9
JAN 10	
H-06 01 22.5	
62.7N 148.9W	
h ABOUT 57KM	
COL IP	06 02 00.2
BRW EP	06 03 33.8
BMO E(P)	06 06 52.4
JAN 10	
BMO EP	06 05 27.6
JAN 10	
BMO EP	07 03 25.9
JAN 10	
COL EP	08 29 20.0
BRW EP	08 29 25.3
BMO EP	08 34 17.9
JAN 10	
COL IP	08 32 17.8
JAN 10	
BMO E(P)	09 21 09.0
EUR EP	09 21 26.5
JAN 10	
SJG EP	10 15 50.5
IS	17 57.3
JAN 10	
H-11 13 03.9	
7.6N 072.1W	
h ABOUT 55KM	
BHP EP	11 14 49.5
IS	16 15.3
ALQ IP	11 20 50.0
TUC EP	11 21 01.1
RCD EP C	11 21 18.5
GCA EP	11 21 27.4
FGU EP	11 21 31.5
BCN EP	11 21 41.4
EUR IP	11 21 58.7
I	22 16.9
BMO EP	11 22 23.3
COL EP	11 24 53.0

Date and Station	Phase (GCT)
	h m s
BRW IP	11 25 15.6
JAN 10	
BMO EP	12 17 36.0
JAN 10	
H-12 58 51.0	
34.6N 138.3E	
h ABOUT 96KM	
BRW EP	13 07 33.8
COL EP	13 07 57.0
HHM EP	13 10 23.5
BMO EP	13 10 26.4
EUR IP	13 10 47.9
JAN 10	
BMO EP	13 25 44.3
JAN 10	
GUA EP D	14 23 00.0
ES	23 22.4
JAN 10	
ALQ E(P)	14 35 28.2
E	40 55.8
TUC E(P)	14 35 46.3
JAN 10	
BMO EP	16 01 05.2
JAN 10	
H-16 12 14.7	
6.6S 154.6E	
h ABOUT 64KM	
COL IP	16 24 31.4
BRW EP	16 24 38.8
SLD EP	16 25 06.4
CED EP	16 25 19.4
BMO EP	16 25 23.5
EUR IP	16 25 26.5
I	25 34.3
BCN EP	16 25 31.4
FGU EP	16 25 48.5
JAN 10	
BMO EP	16 47 55.3
JAN 10	
COL IP	17 51 11.0
JAN 10	
BMO EP	18 12 54.8
JAN 10	
COL EP	18 25 45.0
JAN 10	
SJG E(P)	18 44 32.1
IL	45 16.5

Date and Station	Phase (GCT)
	h m s
JAN 10	
SLD EP	18 46 52.2
I(S)	47 22.8
CED I(P)	18 46 56.3
IL	47 31.9
BCN E(P)	18 47 19.3
E	47 53.5
EL	48 59.5
EUR EP	18 47 47.6
JAN 10	
BMO EP	19 41 05.8
JAN 10	
FGU EP	20 47 08.0
BMO EP	20 48 04.2
JAN 10	
UKI E(P)	21 10 30.5
JAN 10	
EUR I(P)	22 27 31.2
JAN 10	
BCN EP	22 29 43.0
JAN 11	
H-00 32 10.5	
33.6N 116.1W	
h ABOUT 17KM	
CED IP	00 32 32.9
IS	32 48.4
BCN E(P)	00 32 54.0
I	32 57.5
IL	33 28.5
TUC E(P)	00 33 18.5
EUR EP	00 33 42.6
I	35 12.0
JAN 11	
KIP EP	01 26 18.2
I	32 06.6
JAN 11	
BMO EP	03 06 01.7
JAN 11	
BMO EP	03 08 16.6
JAN 11	
H-03 10 59.2	
00.5N 120.2E	
h ABOUT 92KM	
BRW IP	03 23 38.0
I*P	23 51.0
COL EP	03 23 50.0
BMO EP'	03 29 26.2
EUR IP'	03 29 33.0
TUC EP'	03 29 46.4
ALQ EP'	03 29 50.0

Date and Station	Phase (GCT)
	h m s
JAN 11	
COL IP	03 26 28.4
JAN 11	
ALQ E(P)	04 07 49.0
JAN 11	
SJG EP	04 15 49.7
IS	16 16.0
JAN 11	
BMO EP	05 59 40.5
JAN 11	
ALQ E(P)	06 02 13.0
EL	02 50.0
JAN 11	
GCA E(P)	06 02 11.0
IL	02 54.5
FGU EP	06 02 16.0
EL	03 02.5
EUR EP	06 03 03.6
TUC E(P)	06 03 06.8
JAN 11	
BCN E(P)	06 03 03.0
EL	04 23.5
JAN 11	
COL E(P)	07 38 28.5
JAN 11	
BMO E(P)	08 54 50.7
EUR EP	08 55 29.8
E	55 51.6
JAN 11	
H-09 13 00.1	
34.0N 072.0E	
h ABOUT 54KM	
COL EP	09 24 47.0
JAN 11	
EUR EP	09 49 43.2
JAN 11	
H-09 51 46.5	
6.8S 155.2E	
h ABOUT 75KM	
COL EP	10 04 03.0
BMO E(P)	10 04 52.6
EUR IP	10 04 57.0
BCN E(P)	10 05 00.0
JAN 11	
HHM EP	10 15 11.8
FGU EP	10 15 24.5
E	15 35.5
JAN 11	
H-10 25 12.2	
31.1N 114.3W	
h ABOUT 33KM	

Date and Station	Phase	(GCT) h m s
TUC	EP	10 26 03.4
	E(S)	26 35.0
CED	E(P)	10 26 14.8
BCN	EP	10 26 25.1
	I	27 51.5
	IL	28 16.5
GCA	IP	10 26 51.8
EUR	EP	10 27 17.7
	I	27 45.3
	I	30 01.3
FGU	E(P)	10 27 50.4
	EL	31 07.0
SLC	E(P)	10 28 04.2
BMO	EP	10 29 00.9
BOZ	E(P)	10 29 09.0
JAN 11		
ALQ	E(P)	10 27 14.1
	I	27 36.1
	I	28 05.5
JAN 11		
TUC	E(P)	10 38 46.2
BMO	EP	10 39 14.5
COL	EP	10 41 22.0
JAN 11		
TUC	E(P)	11 00 01.0
JAN 11		
TUC	E(P)	11 10 32.8
JAN 11		
COL	EP	12 12 03.7
BMO	E(P)	12 12 07.1
JAN 11		
H-12 42 06.2		
27.6N 085.9E		
h ABOUT 33KM		
COL	EP	12 54 07.0
JAN 11		
BMO	E(P)	12 45 12.2
JAN 11		
SJG	IP	12 54 32.5
	IS	54 41.6
JAN 11		
COL	I(P)	13 46 02.7
FUR	EP	13 48 47.5
JAN 11		
H-14 06 17.4		
33.8N 137.1E		
h ABOUT 23KM		
BRW	E(P)	14 15 07.4
COL	EP	14 15 39.0
HHM	EP	14 18 07.8
BMO	EP	14 18 08.3
BUT	EP	14 18 19.9
SLD	E(P)	14 18 25.5
EUR	IP	14 18 30.0
BCN	EP	14 18 45.5
FGU	EP	14 18 46.3
	E	23 34.5
GCA	EP	14 18 53.2
ALQ	EP	14 19 15.0
JAN 11		
H-14 11 08.4		
33.9N 137.1E		
h ABOUT 33KM		
COL	EP	14 20 28.0
BMO	EP	14 22 57.1
EUR	EP	14 23 19.1
BCN	EP	14 23 35.0
JAN 11		
H-14 16 32.3		
33.7N 137.1E		
h ABOUT 33KM		
BRW	IP	14 25 31.1
	E	25 41.7
COL	EP	14 25 52.9
	E	28 17.6
	ES	33 30.0
HHM	EP	14 28 21.3
BMO	EP	14 28 22.5
BUT	E(P)	14 28 29.4
SLD	EP	14 28 30.7
	E	28 39.5
BOZ	EP	14 28 37.9
EUR	IP	14 28 44.2
SLC	E(P)	14 28 54.0
CED	E(P)	14 28 55.8
BCN	EP	14 28 59.0
	E	29 05.5
FGU	EP	14 29 00.4
GCA	EP	14 29 07.0
TUC	E(P)	14 29 23.2
ALQ	IP	14 29 28.7
JAN 11		
BCN	EP	14 17 28.3
JAN 11		
BMO	E(P)	14 20 46.5
JAN 11		
COL	EP	14 33 42.7
BMO	EP	14 36 11.2
EUR	E(P)	14 36 33.3
JAN 11		
H-14 35 37.8		
34.2N 142.3E		
h ABOUT 33KM		
COL	EP	14 44 39.0
HHM	EP	14 47 07.8
BMO	EP	14 47 08.4
SLD	E(P)	14 47 18.5
BOZ	EP	14 47 24.5
	E	47 31.5
EUR	EP	14 47 30.1
BCN	EP	14 47 45.0
	E	47 51.8
JAN 11		
BMO	EP	15 12 10.6
JAN 11		
COL	EP	15 18 05.0
JAN 11		
EUR	EP	15 59 17.1
JAN 11		
H-16 16 44.2		
38.5N 069.7E		
h ABOUT 63KM		
COL	EP	16 28 08.0
JAN 11		
COL	EP	16 57 27.0
EUR	IP	17 01 02.4
JAN 11		
TUC	E(P)	17 14 02.7
BMO	EP	17 14 36.2
COL	EP	17 14 48.0
ALQ	E(P)	17 14 50.3
JAN 11		
EUR	E(P)	17 58 09.6
JAN 11		
BMO	EP	19 01 31.6
JAN 11		
BMO	EP	19 03 11.4
JAN 11		
BCN	E(P)	19 16 19.2
	E	16 27.0
	EL	17 09.0
BMO	EP	19 16 24.0
EUR	EP	19 16 37.0
JAN 11		
ALQ	E(P)	19 27 42.5
TUC	E(P)	19 28 07.0
JAN 11		
EUR	IP	19 31 30.5
JAN 11		
KIP	E(P)	20 02 14.5
JAN 11		
BMO	EP	21 23 28.4
JAN 11		
EUR	IP	21 34 43.0
JAN 11		
H-21 49 14.1		
34.2N 137.1E		
h ABOUT 33KM		
COL	EP	21 58 32.0
BMO	EP	22 01 01.7
BOZ	E(P)	22 01 17.5
EUR	IP	22 01 23.8
BCN	EP	22 01 39.0
	E	01 46.0
JAN 11		
COL	EP	22 18 10.0
JAN 11		
FGU	IP C	22 20 32.2
	IS	20 52.5
SLC	IP	22 20 36.1
	IS	20 57.6
BOZ	E(P)	22 21 13.0
	E	21 18.0
EUR	E(P)	22 21 23.0
JAN 11		
EUR	IP	23 21 44.2
BMO	E(P)	23 22 35.6
JAN 11		
BMO	E(P)	23 23 26.7
JAN 11		
BRW	E(P)	23 36 39.5
EUR	IP	23 40 05.2
JAN 12		
COL	E(P)	00 26 35.0
BMO	EP	00 29 46.8
JAN 12		
BMO	EP	01 33 20.9

Date and Station	Phase (GCT)
	h m s
JAN 12	
H-01 38 09.3	
44.1N 147.3E	
h ABOUT 33KM	
COL IP	01 45 48.7
BMO E(P)	01 48 40.6
EUR IP	01 49 07.6
JAN 12	
BCN IP	02 58 10.8
IS	58 32.8
EUR EP	02 58 47.5
JAN 12	
TUC E(P)	04 54 46.3
JAN 12	
EUR IP	05 03 04.5
JAN 12	
BMO EP	05 07 59.2
JAN 12	
BMO EP	05 45 54.6
EUR EP	05 46 16.5
TUC E(P)	05 48 55.5
JAN 12	
BMO E(P)	06 04 33.8
JAN 12	
COL IP	06 55 46.5
JAN 12	
TUC E(P)	07 09 31.3
JAN 12	
H-08 02 09.2	
2.3S 077.1W	
h ABOUT 169KM	
SJG IP	08 06 59.0
ALQ IP	08 10 19.2
I▸P	10 53.9
TUC IP C	08 10 25.1
E▸P	10 57.9
RCD EP	08 11 01.0
EUR IP	08 11 23.6
SLD EP	08 11 36.5
BOZ IP	08 11 37.0
BMO EP	08 11 52.3
HHM EP	08 11 59.2
JAN 12	
EUR EP	08 16 09.4
JAN 12	
EUR IP	09 27 35.8

Date and Station	Phase (GCT)
	h m s
JAN 12	
H-10 21 57.8	
36.2N 141.7E	
h ABOUT 46KM	
COL EP	10 30 47.0
BOZ EP	10 33 38.0
EUR IP	10 33 44.0
FGU E(P)	10 34 02.0
RCD E(P)	10 34 08.5
ALQ EP	10 34 31.0
JAN 12	
H-11 49 22.9	
20.7S 178.4W	
h ABOUT 548KM	
BMO EP	12 01 05.2
COL IP	12 01 16.1
JAN 12	
COL EP	12 10 44.1
BMO E(P)	12 13 01.8
JAN 12	
H-12 29 27.2	
15.0N 094.6W	
h ABOUT 38KM	
CSC E(P)	12 34 25.0
ALQ IP C	12 34 25.6
I(S)	38 42.2
I	42 16.4
TUC EP	12 34 27.0
E(S)	38 39.0
BCN EP	12 35 14.8
E	35 24.0
FGU EP C	12 35 24.5
RCD E(P)	12 35 33.0
E▸P	35 44.0
SLC EP	12 35 33.0
EUR IP	12 35 41.6
BUT EP	12 36 13.0
BMO EP	12 36 20.7
EL	44 40.0
HHM EP	12 36 34.2
COL EP	12 39 40.0
JAN 12	
BMO E(P)	12 38 50.9
JAN 12	
GCA EP	14 00 35.6
JAN 12	
COL E(P)	14 12 16.3

Date and Station	Phase (GCT)
	h m s
JAN 12	
EUR EP	17 27 38.3
JAN 12	
EUR IP	17 39 55.7
COL IP	17 43 36.0
JAN 12	
BMO EP	17 43 25.3
EUR IP	17 44 21.6
JAN 12	
COL P	20 39 09.0
JAN 12	
COL EP	21 08 04.0
JAN 12	
BCN IP C	21 58 08.2
IS	58 14.5
JAN 12	
HHM EP	22 11 41.4
JAN 12	
COL EP	22 41 08.0
JAN 12	
EUR IP	22 52 53.0
JAN 12	
CSC E(P)	22 59 57.0
JAN 12	
BMO EP	23 26 09.3
EUR E(P)	23 26 32.1
JAN 12	
EUR EP	23 36 21.7
JAN 12	
GUA EP	23 42 37.0
ES	42 44.0
JAN 12	
BMO EP	23 55 01.6
COL IP	24 00 08.1
JAN 13	
EUR E(P)	00 09 23.4
JAN 13	
BMO EP	00 54 38.8
JAN 13	
COL IP	01 04 27.0
JAN 13	
H-01 44 12.6	
38.4N 028.5E	
h ABOUT 33KM	
BMO E(P)	01 57 18.5
JAN 13	
COL IP	03 03 01.9
BMO EP	03 06 25.4
EUR E(P)	03 08 05.2

Date and Station	Phase (GCT)
	h m s
JAN 13	
H-03 40 38.5	
36.1N 117.8W	
h ABOUT 16KM	
CED IP	03 41 10.6
IL	41 37.6
BCN E(P)	03 41 22.2
IL	41 57.1
SLD EP	03 41 25.5
IL	42 04.2
EUR EP	03 41 37.1
I	41 45.6
IS	42 35.8
JAN 13	
H-03 46 37.4	
36.1N 117.9W	
h ABOUT 16KM	
CED IP	03 47 09.6
IL	47 37.1
BCN E(P)	03 47 20.5
IL	47 56.7
SLD E(P)	03 47 26.5
IL	48 05.0
EUR E(P)	03 47 38.5
I	47 45.9
IL	48 34.3
JAN 13	
FGU IP	03 47 35.0
IL	48 01.5
JAN 13	
EUR IP	04 45 14.0
JAN 13	
COL EP	05 13 21.0
JAN 13	
TUC E(P)	05 23 06.0
EL	24 16.5
JAN 13	
EUR E(P)	05 31 34.7
JAN 13	
COL EP	05 41 39.0
JAN 13	
H-05 53 48.5	
18.0S 178.4W	
h ABOUT 621KM	
EUR IP	06 05 04.9
BMO EP	06 05 14.4
COL IP	06 05 23.7
JAN 13	
EUR E(P)	06 28 55.5
JAN 13	
COL E(P)	07 06 34.5

Date and Station	Phase	(GCT) h m s
JAN 13		
BMO	E(P)	07 19 00.5
JAN 13		
COL	E(P)	07 29 37.2
JAN 13		
BMO	EP	07 45 23.9
JAN 13		
BMO	E(P)	07 49 12.3
JAN 13		
BMO	EP	07 51 28.9
JAN 13		
HHM	E(P)	07 53 02.5
	E	53 24.5
JAN 13		
BUT	E(P)	07 54 33.5
JAN 13		
COL	EP	08 24 43.2
JAN 13		
COL	EP	08 35 55.0
JAN 13		
BMO	E(P)	08 48 07.4
JAN 13		
BMO	E(P)	09 19 12.8
JAN 13		
BMO	EP	09 32 26.2
JAN 13		
BMO	E(P)	10 00 06.0
JAN 13		
BMO	EP	10 16 24.3
EUR	EP	10 16 58.5
JAN 13		
BUT	E(P)	10 29 01.5
	IL	29 22.5
JAN 13		
H-10 30 51.8		
19.0N 064.7W		
h ABOUT 50KM		
SJG	IP D	10 31 18.8
	IS	31 38.0
	IL	31 47.0
BHP	IP	10 34 54.5
CSC	EP	10 35 29.0
	E	35 39.0
	E	35 48.0
WSC	EP	10 35 48.8
	E	35 56.2
	E(S)	39 52.7
ALQ	IP	10 38 26.2
PCD	E(P)	10 38 37.5
TUC	E(P)	10 38 51.2
FGU	EP	10 38 55.0
GCA	EP	10 39 02.8
SLC	EP	10 39 09.6
	E(▸P)	39 21.6
BOZ	IP	10 39 19.0
BCN	EP	10 39 23.4
EUR	IP	10 39 32.1
HHM	EP	10 39 37.8
BMO	IP	10 39 46.4
COL	EP	10 41 59.2
JAN 13		
H-10 41 11.7		
52.9N 172.0E		
h ABOUT 17KM		
COL	IP	10 46 22.3
	ES	50 34.0
SIT	E(P)	10 47 21.7
KIP	IP	10 48 38.5
	EL	58 58.0
HHM	IP	10 49 29.5
BMO	IP	10 49 31.2
UKI	E(P)	10 49 32.8
BUT	IP	10 49 45.7
SLD	EP	10 49 51.5
	E▸P	50 00.6
	EPCP	51 19.5
	E▸PCP	51 28.2
BOZ	IP	10 49 52.6
EUR	IP	10 50 03.8
	IPCP	51 40.0
	E	55 18.0
	E(S)	57 16.5
SLC	EP	10 50 14.6
CFD	EP	10 50 23.6
FGU	EP	10 50 24.4
BCN	IP C	10 50 27.5
RCD	EP C	10 50 35.0
	E▸P	50 42.0
GCA	EP	10 50 35.4
TUC	EP	10 51 02.1
ALQ	IP	10 51 07.1
WSC	EP	10 52 27.0
	E▸P	52 35.3
CSC	EP	10 52 40.0
	E	52 58.0
SJG	EP	10 54 28.7
JAN 13		
BCN	E(P)	10 55 31.0
JAN 13		
GUA	EP	10 55 59.0
	ES	59 11.0
JAN 13		
KIP	EP	11 27 30.7
	I	29 00.8
JAN 13		
COL	E(P)	11 34 20.5
JAN 13		
COL	EP	11 57 26.0
JAN 13		
H-12 24 38.4		
51.4N 157.1E		
h ABOUT 50KM		
COL	EP	12 30 52.0
BMO	EP	12 34 02.8
EUR	IP	12 34 33.8
	I	35 03.3
JAN 13		
EUR	IP	12 25 19.8
JAN 13		
BMO	EP	12 34 31.9
JAN 13		
COL	E(P)	13 18 22.2
JAN 13		
TUC	E(P)	13 35 16.6
	EL	36 13.5
JAN 13		
BMO	E(P)	13 46 10.6
COL	EP	13 51 16.0
JAN 13		
COL	EP	13 52 32.0
BMO	EP	13 53 50.6
EUR	EP	13 54 13.6
	E	56 08.6
JAN 13		
H-14 17 10.6		
8.3S 074.1W		
h ABOUT 180KM		
SJG	EP	14 22 39.9
ALQ	IP	14 26 09.5
TUC	EP	14 26 14.7
EUR	IP	14 27 10.1
BMO	IP	14 27 37.5
COL	IP	14 29 54.1
JAN 13		
COL	IP	14 23 41.9
JAN 13		
H-15 37 42.8		
37.2N 116.0W		
h ABOUT 0KM		
BCN	IP	15 38 11.6
	IS	38 32.8
EUR	IP	15 38 23.7
SLD	E(P)	15 38 59.8
	IL	39 58.0
TUC	E(P)	15 39 23.9
JAN 13		
EUR	IP	15 52 44.0
JAN 13		
COL	EP	17 43 45.0
JAN 13		
EUR	IP	18 25 32.1
JAN 13		
BMO	E(P)	19 02 55.0
JAN 13		
H-19 26 23.3		
20.8S 069.3W		
h ABOUT 106KM		
EUR	E(P)	19 37 52.0
BMO	IP	19 38 16.2
JAN 13		
EUR	EP	19 56 08.5
JAN 13		
EUR	IP	20 41 42.2
JAN 13		
EUR	IP	23 04 14.7
JAN 13		
H-23 42 46.9		
15.3S 173.8W		
h ABOUT 89KM		
SLD	EP	23 54 03.0
BCN	EP	23 54 24.5
EUR	IP	23 54 29.7
TUC	EP	23 54 29.8
GCA	IP	23 54 40.6
	I	54 50.8
BMO	EP	23 54 41.4
COL	IP	23 55 00.0
JAN 14		
COL	E(P)	00 01 21.2
JAN 14		
COL	E(P)	00 09 08.5

Date and Station	Phase (GCT)
	h m s
JAN 14	
EUR E(P)	00 32 08.8
E	32 48.0
JAN 14	
COL IP	00 58 49.8
JAN 14	
H-01 07 17.1	
49.4N 154.6E	
h ABOUT 86KM	
COL EP	01 13 49.7
BMO EP	01 16 54.5
EUR IP	01 17 24.0
I▸P	17 41.7
BCN EP	01 17 44.1
E▸P	18 02.0
JAN 14	
BCN IP	01 54 27.5
I	54 37.0
IL	55 17.5
EUR IP	01 55 05.9
JAN 14	
BMO E(P)	02 27 09.7
JAN 14	
BCN E(P)	03 11 12.6
E	11 18.6
IL	11 57.5
JAN 14	
BMO E(P)	04 38 11.6
JAN 14	
GUA IP	05 06 20.0
ES	06 28.0
JAN 14	
BMO E(P)	06 17 01.8
JAN 14	
COL EP	07 06 44.0
JAN 14	
H-07 39 13.2	
5.9S 148.3E	
h ABOUT 88KM	
COL IP	07 51 37.0
BMO E(P)	07 52 38.2
EUR EP	07 52 43.0
JAN 14	
H-08 52 18.1	
17.8N 062.1W	
h ABOUT 42KM	
SJG IP C	08 53 17.5
IS	54 00.0
JAN 14	
H-10 02 07.4	
16.8N 062.4W	
h ABOUT 23KM	

Date and Station	Phase (GCT)
	h m s
SJG IP	10 03 06.0
IS	03 49.2
JAN 14	
BMO EP	10 04 11.5
JAN 14	
EUR IP	11 42 26.7
JAN 14	
BMO EP	12 28 24.2
JAN 14	
BRW EP	13 14 48.2
COL EP	13 14 54.0
JAN 14	
GCA E(P)	15 38 45.1
JAN 14	
COL EP	16 13 04.0
JAN 14	
COL EP	16 18 57.1
JAN 14	
COL EP	18 01 15.5
JAN 14	
SJG EP	18 12 03.8
IS	12 25.5
JAN 14	
EUR E(P)	18 13 15.5
JAN 14	
EUR IP	18 14 06.2
JAN 14	
COL EP	18 22 48.0
JAN 14	
H-18 39 30.8	
34.6N 027.0E	
h ABOUT 33KM	
COL EP	18 51 42.0
HHM EP	18 52 31.9
BMO EP	18 52 49.6
JAN 14	
EUR E(P)	18 42 13.3
JAN 14	
EUR I(P)	18 43 17.2
JAN 14	
EUR IP	20 04 25.5
COL EP	20 07 05.0
JAN 14	
COL EP	20 10 07.0
JAN 14	
EUR IP	20 08 06.8
JAN 14	
COL EP	20 19 51.0

Date and Station	Phase (GCT)
	h m s
JAN 14	
H-20 41 04.2	
17.4S 166.6E	
h ABOUT 10KM	
SLD E(P)	20 53 50.5
COL IP	20 53 59.8
BCN EP	20 54 11.7
I	54 18.4
EUR IP	20 54 13.0
BMO EP	20 54 17.2
BRW E(P)	20 54 18.6
TUC E(P)	20 54 19.4
E	54 32.0
ALQ E(P)	20 54 39.5
SJG EP'	21 00 18.0
JAN 14	
COL EP	21 02 15.0
JAN 14	
H-21 20 11.0	
39.0N 110.4W	
h ABOUT 0KM	
FGU IP	21 20 48.8
IL	21 16.8
GCA IP C	21 20 49.4
IS	21 16.4
EUR E(P)	21 21 24.8
I	21 31.0
IL	22 28.5
ALQ E(P)	21 21 26.0
BCN E(P)	21 21 34.0
BMO E(P)	21 22 10.2
JAN 14	
GCA IP	21 20 29.6
IL	20 57.0
JAN 14	
BOZ EP	21 33 28.5
JAN 14	
BMO IP	21 47 48.1
JAN 14	
BOZ E(P)	21 49 05.0
E	46 16.0
JAN 14	
H-21 49 38.8	
37.9S 073.5W	
h ABOUT 36KM	
SJG EP	21 59 13.0

Date and Station	Phase (GCT)
	h m s
TUC EP	22 01 35.0
ALQ IP	22 01 38.0
I	04 19.0
BCN EP	22 02 02.0
EUR IP	22 02 19.0
I	03 08.7
I	03 18.3
HHM E(P)	22 02 39.4
JAN 14	
EUR IP	21 54 20.0
JAN 14	
H-21 55 49.5	
51.4N 169.0W	
h ABOUT 33KM	
COL EP	21 59 49.0
BOZ EP	22 03 02.6
E▸P	03 12.7
EUR EP	22 03 08.3
E▸P	03 18.0
CFD IP	22 03 28.4
I▸P	03 38.4
BCN EP	22 03 32.5
E▸P	03 42.3
TUC E(P)	22 04 10.8
JAN 14	
BMO EP	22 05 09.6
JAN 14	
BCN E(P)	22 17 01.5
E	17 10.0
EL	18 00.0
TUC E(P)	22 18 12.8
JAN 14	
TUC E(P)	22 31 21.6
JAN 14	
COL EP	22 46 18.5
JAN 14	
BCN IP	22 47 14.9
IS	47 18.4
EUR EP	22 48 05.3
JAN 14	
EUR E(P)	22 54 02.7
JAN 15	
BMO IP	00 38 56.2
JAN 15	
COL EP	00 52 51.4
JAN 15	
BMO EP	01 11 54.7

Date and Station	Phase	Phase (GCT) h m s
JAN 15		
H-03 34 20.7		
20.2S 069.1W		
h ABOUT 131KM		
BMO	EP	03 46 09.4
JAN 15		
H-03 57 40.0		
19.1S 174.3W		
h ABOUT 33KM		
BCN	EP	04 09 40.5
TUC	EP	04 09 45.8
EUR	EP	04 09 46.8
BMO	EP	04 09 58.8
ALQ	IP	04 10 08.6
COL	IP	04 10 18.6
JAN 15		
BRW	EP	04 11 34.0
COL	IP	04 11 59.5
BMO	EP	04 15 04.0
JAN 15		
SJG	E(P)	04 27 51.0
	IL	28 36.5
JAN 15		
H-05 09 11.3		
30.8S 071.6W		
h ABOUT 54KM		
SJG	EP	05 17 50.6
ALQ	E(P)	05 20 38.0
EUR	IP	05 21 23.2
BMO	E(P)	05 21 54.7
JAN 15		
TUC	E(P)	05 29 05.5
JAN 15		
TUC	E(P)	06 06 07.5
	EPG	06 20.0
CED	E(P)	06 06 21.3
BCN	EP	06 06 28.5
	I	07 09.0
	EL	07 56.5
ALQ	EP	06 07 11.2
	I	07 45.2
EUR	EP	06 07 23.9
	E(S)	09 43.5
JAN 15		
H-06 26 17.7		
31.2N 114.2W		
h ABOUT 33KM		
TUC	E(P)	06 27 05.5
	EPG	27 19.5
BCN	EP	06 27 29.0
	I	28 10.5
	EL	28 50.0
GCA	E(P)	06 27 49.4
	EL	29 46.7
ALQ	E(P)	06 28 13.5
	I	28 48.0
EUR	EP	06 28 20.0
	EL	30 45.7
JAN 15		
COL	EP	06 34 40.0
JAN 15		
H-06 35 58.0		
19.3N 065.3W		
h ABOUT 33KM		
SJG	IP	06 36 21.7
	IS	36 37.5
BMO	EP	06 44 49.8
JAN 15		
TUC	E(P)	06 46 16.0
JAN 15		
BMO	EP	06 51 43.4
EUR	EP	06 51 47.4
JAN 15		
TUC	EP	06 51 58.3
	EPG	52 10.5
JAN 15		
EUR	EP	06 53 11.0
JAN 15		
COL	EP	07 04 50.0
JAN 15		
H-07 11 10.5		
06.2N 126.2E		
h ABOUT 65KM		
BRW	EP	07 23 14.7
COL	EP	07 23 29.0
JAN 15		
H-07 51 40.2		
19.5N 108.9W		
h ABOUT 33KM		
TUC	EP	07 54 44.0
ALQ	E(P)	07 55 25.0
BCN	EP	07 55 41.5
	E	56 08.7
EUR	IP	07 56 21.8
JAN 15		
BMO	E(P)	07 57 41.5
JAN 15		
BMO	EP	08 24 52.2
COL	IP	08 25 41.3
JAN 15		
H-09 01 19.2		
31.2N 140.5E		
h ABOUT 73KM		
BRW	E(P)	09 10 24.2
COL	EP	09 10 41.0
BMO	EP	09 13 03.1
EUR	E(P)	09 13 25.5
JAN 15		
COL	EP	09 47 20.0
JAN 15		
SJG	IP	09 58 02.1
	IS	58 20.5
JAN 15		
COL	EP	09 49 29.0
JAN 15		
TUC	E(P)	10 36 33.2
JAN 15		
TUC	E(P)	10 47 20.5
JAN 15		
H-10 56 35.4		
20.3S 174.4W		
h ABOUT 33KM		
BCN	EP	11 08 40.0
EUR	E(P)	11 08 51.4
BMO	EP	11 09 01.8
ALQ	EP	11 09 09.5
	IS	19 55.5
COL	IP	11 09 22.7
JAN 15		
SLC	E(P)	11 02 02.6
	ES	02 20.2
FGU	I(P)	11 02 28.5
	IL	03 03.5
EUR	EP	11 02 35.6
	IS	03 29.6
BOZ	EP	11 02 46.5
BMO	EP	11 02 56.4
JAN 15		
H-11 16 18.1		
19.7N 108.8W		
h ABOUT 33KM		
TUC	EP	11 19 19.2
	E	19 31.0
	EL	22 40.0
BCN	EP	11 20 17.5
SLD	EP	11 20 55.0
EUR	IP	11 20 57.2
BOZ	EP	11 21 49.0
BMO	EP	11 21 50.5
JAN 15		
H-11 32 48.3		
18.7S 169.2E		
h ABOUT 214KM		
SLD	EP	11 45 05.6
COL	IP	11 45 21.0
BCN	EP	11 45 26.0
EUR	IP	11 45 28.0
BMO	EP	11 45 33.6
TUC	EP	11 45 33.8
SJG	EP'	11 51 27.7
JAN 15		
BMO	E(P)	11 45 56.8
JAN 15		
BMO	E(P)	11 46 17.5
JAN 15		
BMO	E(P)	11 46 27.1
JAN 15		
H-11 59 58.9		
59.5N 144.6W		
h ABOUT 33KM		
COL	IP	12 01 21.0
	IL	02 48.0
SIT	E(P)	12 01 24.5
BRW	I(P)	12 02 58.7
	I	03 19.7
	EL	06 27.8
HHM	EP	12 04 40.1
	E	07 34.1
	IL	10 39.1
BMO	EP	12 04 51.0
	E(PP)	05 24.4
	ES	09 00.0
BUT	EP	12 05 05.3
	E(S)	09 19.8
	EL	11 36.8
BOZ	EP	12 05 11.0
	ES	09 46.0
EUR	EP	12 05 38.5
SLD	E(P)	12 05 41.0
RCD	E(P)	12 06 01.0
BCN	EP	12 06 10.0
ALQ	IP	12 06 48.0
TUC	E(P)	12 06 51.0
	E(S)	12 32.0

Date and Station	Phase (GCT)
	h m s
CHK E(S)	12 13 19.7
EL	21 07.7
E	23 03.7
WSC E(S)	12 14 29.5
WAS E(S)	12 14 30.0
EL	23 36.0
JAN 15	
BCN EP	12 24 41.0
TUC E(P)	12 24 46.0
BMO EP	12 24 58.1
COL IP	12 25 15.9
E	26 07.0
BMO E(P)	12 25 46.9
JAN 15	
BMO E(P)	12 59 15.5
JAN 15	
BMO IP	13 15 47.1
JAN 15	
BRW EP	14 02 06.0
JAN 15	
COL EP	14 44 21.3
BMO IP	14 46 42.9
JAN 15	
H-15 46 53.2	
18.4N 101.2W	
h ABOUT 123KM	
TUC E(P)	15 50 37.1
ALQ E(P)	15 50 41.6
BCN EP	15 51 33.5
FGU EP	15 51 54.7
EUR IP	15 52 04.6
BMO EP	15 52 48.2
COL E(P)	15 56 20.0
JAN 15	
H-16 08 02.4	
59.5N 144.6W	
h ABOUT 30KM	
COL IP	16 09 26.1
IL	12 00.0
BRW E(P)	16 10 03.3
BMO EP	16 12 56.1
BOZ EP	16 13 17.5
JAN 15	
EUR EP	16 12 19.5
E	13 41.5
JAN 15	
SJG IP	16 33 16.7

Date and Station	Phase (GCT)
	h m s
TUC E(P)	16 33 47.0
BMO EP	16 37 59.4
JAN 15	
BMO EP	16 38 29.7
JAN 15	
EUR IP	16 46 23.8
JAN 15	
H-18 07 42.8	
36.7N 023.0E	
h ABOUT 11KM	
BRW EP	18 19 10.0
E	19 31.1
COL EP	18 19 45.0
BMO EP	18 20 50.8
JAN 15	
H-19 28 55.7	
33.6S 070.2W	
h ABOUT 33KM	
SJG IP	19 37 58.9
TUC E(P)	19 40 42.0
ALQ IP	19 40 42.6
GCA E(P)	19 41 06.9
FGU EP	19 41 17.0
EUR EP	19 41 26.8
BOZ EP	19 41 41.5
BUT EP	19 41 45.2
BMO EP	19 41 50.2
JAN 15	
H-19 29 36.1	
33.5S 069.8W	
h ABOUT 50KM	
SJG IP	19 38 36.4
TUC EP	19 41 20.0
ALQ EP	19 41 21.5
GCA EP	19 41 45.1
BCN EP	19 41 48.0
CED EP	19 41 48.3
FGU EP	19 41 56.5
EUR IP	19 42 05.2
SLD EP	19 42 09.0
BOZ EP	19 42 19.0
BUT EP	19 42 23.7
BMO EP	19 42 27.2

Date and Station	Phase (GCT)
	h m s
JAN 15	
COL EP	19 58 49.0
EUR IP	20 02 03.2
JAN 15	
COL EP	20 47 49.0
JAN 15	
H-20 41 56.0	
18.9S 178.61N	
h ABOUT 600KM	
EUR EP	20 53 17.5
TUC EP	20 53 19.2
BMO EP	20 53 27.7
COL E(P)	20 53 36.5
JAN 15	
EUR E(P)	20 57 48.2
JAN 15	
COL EP	21 16 27.0
JAN 15	
EUR IP	21 54 23.1
JAN 15	
H-21 56 29.9	
32.3S 178.2W	
h ABOUT 33KM	
TUC E(P)	22 09 29.0
JAN 15	
GCA IP	22 42 04.9
IS	42 23.3
EUR IP	22 42 30.8
I	44 29.7
JAN 15	
BMO EP	23 02 21.9
JAN 15	
BMO EP	23 14 50.5
JAN 15	
BOZ E(P)	23 20 12.0
BMO EP	23 20 30.5
JAN 16	
BMO EP	00 18 13.6
EUR IP	00 18 46.6
JAN 16	
COL EP	00 28 12.0
JAN 16	
EUR E(P)	00 57 43.4
JAN 16	
COL IP	01 20 22.8
JAN 16	
COL E(P)	02 56 37.7
JAN 16	
COL E(P)	03 16 29.8

Date and Station	Phase (GCT)
	h m s
JAN 16	
BMO EP	04 44 24.6
JAN 16	
ALQ EP	05 37 51.5
JAN 16	
COL EP	06 10 47.0
JAN 16	
H-07 07 56.5	
09.1N 093.8E	
h ABOUT 33KM	
BRW I(P)	07 20 47.8
E	20 55.5
COL EP	07 21 14.0
BMO EP'	07 26 48.7
FGU EP'	07 26 56.7
I	27 02.0
EUR IP'	07 26 58.8
TUC EP'	07 27 08.0
I	27 17.2
ALQ EP'	07 27 08.5
JAN 16	
BMO EP	07 52 36.6
JAN 16	
H-09 11 47.3	
52.8N 172.0E	
h ABOUT 8KM	
BRW IP	09 16 54.8
IPCP	20 43.5
E(S)	21 11.6
COL IP	09 16 59.6
EL	21 16.0
HHM EP	09 20 06.8
I▸P	20 13.9
BMO EP	09 20 08.4
BUT E(P)	09 20 17.9
BOZ EP	09 20 29.5
I	20 37.0
EUR IP	09 20 40.9
I	21 18.8
FPP	23 36.6
CED EP	09 21 01.7
I▸P	21 08.4
FGU EP	09 21 02.2
BCN EP	09 21 04.5
I▸P	21 11.1
I	21 44.7
GCA EP	09 21 12.3
TUC EP	09 21 39.8
ALQ IP	09 21 44.5

Date and Station	Phase (GCT)
	h m s
JAN 16	
H-09 22 19.3	
5.3S 147.0E	
h ABOUT 204KM	
COL EP	09 34 29.9
EpP	35 19.5
BMO EP	09 35 33.6
EUR EP	09 35 38.5
SJG IP'	09 41 34.2
JAN 16	
TUC E(P)	10 14 25.0
EUR EP	10 14 28.4
BMO E(P)	10 14 30.7
JAN 16	
TUC E(P)	10 38 37.5
JAN 16	
COL EP	10 55 39.5
BMO E(P)	10 58 57.7
EUR IP	10 59 27.3
JAN 16	
EUR EP	11 25 24.2
JAN 16	
COL IP	12 17 48.3
EUR IP	12 21 29.3
JAN 16	
COL EP	13 07 45.7
JAN 16	
COL E(P)	13 24 11.0
TUC E(P)	13 31 34.0
JAN 16	
H-14 30 44.4	
4.9S 142.5E	
h ABOUT 104KM	
BRW IP	14 43 12.7
E	43 52.8
COL IP	14 43 12.9
BMO EP	14 44 22.9
EUR EP	14 44 29.0
SJG EP'	14 50 22.0
E	50 52.5
JAN 16	
H-14 44 39.1	
35.4N 117.8W	
h ABOUT 16KM	
CED IP	14 45 00.5
IS	45 17.2

Date and Station	Phase (GCT)
	h m s
BCN IP	14 45 23.5
I	45 28.0
IL	45 57.5
SLD E(P)	14 45 32.0
IL	46 21.5
EUR EP	14 45 45.8
I	45 59.1
E(S)	46 55.5
TUC E(P)	14 46 13.0
E(L)	48 03.0
JAN 16	
CED E(P)	15 39 21.2
EL	39 59.5
JAN 16	
H-18 52 00.8	
33.2N 026.2E	
h ABOUT 33KM	
BRW EP	19 03 44.0
COL EP	19 04 22.0
HHM EP	19 05 07.3
BMO EP	19 05 25.4
JAN 16	
H-19 44 41.8	
54.8N 165.8E	
h ABOUT 33KM	
BRW EP	19 49 45.0
I	49 54.3
COL IP	19 50 01.6
HHM EP	19 53 16.9
BMO EP	19 53 21.0
EUR IP	19 53 54.2
IsP	54 08.3
EPCP	55 09.1
FGU EP	19 54 13.0
BCN EP	19 54 14.9
CED EP	19 54 16.1
TUC EP	19 54 52.0
E	55 08.7
ALQ IP	19 54 54.5
JAN 16	
COL EP	19 46 33.0
JAN 16	
BRW E(P)	19 53 33.5
BMO EP	19 58 40.4
JAN 16	
H-20 15 28.1	
35.6N 025.9E	
h ABOUT 36KM	
COL IP	20 27 33.9

Date and Station	Phase (GCT)
	h m s
HHM EP	20 28 21.4
BMO EP	20 28 40.1
JAN 16	
COL EP	20 22 59.0
JAN 16	
BMO E(P)	20 32 37.6
JAN 16	
COL EP	20 46 43.0
BMO EP	20 49 27.0
JAN 16	
COL EP	21 11 31.0
JAN 16	
H-21 45 48.7	
17.4S 176.8W	
h ABOUT 359KM	
EUR IP	21 57 21.0
TUC EP	21 57 22.7
BMO EP	21 57 31.6
COL IP	21 57 43.6
JAN 16	
H-23 42 00.0	
36.9N 140.8E	
h ABOUT 86KM	
BRW EP	23 50 21.2
E(pP)	50 34.3
COL EP	23 50 42.0
BMO EP	23 53 18.6
EUR IP	23 53 41.8
IpP	53 56.8
ALQ EP	23 54 28.0
EpP	54 43.7
JAN 16	
TUC E	23 54 38.2
JAN 17	
H-01 48 08.4	
37.0N 121.5W	
h ABOUT 6KM	
SLD I(P)	01 48 12.8
IS	48 16.1
EUR E(P)	01 49 29.3
F	19 40.5
EL	50 43.0
JAN 17	
H-02 03 20.1	
37.0N 121.5W	
h ABOUT 6KM	
SLD I(P)	02 03 24.5
IS	03 27.7
UKI EP	02 04 00.7

Date and Station	Phase (GCT)
	h m s
EUR IP	02 04 39.5
IP	04 50.6
I(L)	05 47.5
CED E(P)	02 05 25.6
JAN 17	
TUC E(P)	02 08 39.1
JAN 17	
H-02 23 37.1	
37.0N 121.5W	
h ABOUT 6KM	
SLD I(P)	02 23 41.5
IS	23 44.8
JAN 17	
EUR IP	02 25 12.8
I	26 15.1
JAN 17	
H-02 48 37.8	
37.0N 121.5W	
h ABOUT 6KM	
SLD I(P)	02 48 42.2
IS	48 45.6
EUR E(P)	02 50 10.4
IS	51 13.3
JAN 17	
COL EP	03 26 40.0
JAN 17	
BMO EP	03 40 06.8
JAN 17	
COL IP	03 54 46.3
JAN 17	
COL IP	03 58 08.1
JAN 17	
COL EP	05 29 31.0
JAN 17	
BRW EP	05 33 24.4
JAN 17	
COL EP	06 03 48.1
JAN 17	
H-06 12 07.9	
15.6N 104.6W	
h ABOUT 33KM	
TUC E(P)	06 16 13.2
ALQ EP	06 16 35.5
GCA EP	06 17 05.0
EUR IP	06 17 38.0
BMO EP	06 18 24.4
JAN 17	
H-06 22 56.4	
37.0N 121.5W	
h ABOUT 6KM	

Date and Station	Phase (GCT)
	h m s
SLD I(P)	06 23 00.8
IS	23 04.1
FUR E(P)	06 24 29.9
E	25 33.5
JAN 17	
H-06 24 45.4	
3.4S 079.3W	
h ABOUT 133KM	
ALQ IP	06 32 56.5
JAN 17	
H-06 57 04.4	
11.6S 075.9W	
h ABOUT 102KM	
BMO E(P)	07 07 51.0
JAN 17	
H-07 33 44.9	
12.9S 040.5E	
h ABOUT 33KM	
BMO EP'	07 53 24.4
FUR IP'	07 53 29.2
JAN 17	
H-08 39 40.9	
40.1N 020.3E	
h ABOUT 35KM	
BMO EP	08 52 25.9
JAN 17	
COL E(P)	08 53 31.7
JAN 17	
BMO FP	09 17 13.0
FUR IP	09 17 43.8
JAN 17	
SLD IP D	10 36 21.5
IS	36 24.9
JAN 17	
EUR EP	10 37 53.0
JAN 17	
COL EP	10 56 51.0
JAN 17	
BMO E(P)	14 34 03.9
JAN 17	
H-14 42 19.9	
14.1N 092.1W	
h ABOUT 75KM	
ALQ IP	14 47 34.6
TUC E(P)	14 47 38.5
EL	55 34.0
BCN EP	14 48 22.5
SLC EP	14 48 38.9
FUR IP	14 48 49.7
BMO EP	14 49 27.4

Date and Station	Phase (GCT)
	h m s
HHM EP	14 49 38.3
COL EP	14 52 41.4
BRW E(P)	14 53 12.8
I	53 25.3
JAN 17	
BMO EP	14 52 34.8
JAN 17	
TUC E(P)	15 02 25.5
CED E(P)	15 02 59.0
E	03 19.0
IL	04 50.0
JAN 17	
BMO EP	15 11 47.0
FUR FP	15 11 51.5
JAN 17	
COL EP	15 36 12.0
JAN 17	
COL EP	16 14 41.0
BRW EP	16 16 11.6
BMO E(P)	16 18 40.5
JAN 17	
EUR EP	16 23 18.2
JAN 17	
COL EP	17 02 51.0
EUR E(P)	17 03 40.7
JAN 17	
COL EP	17 35 40.0
JAN 17	
BRW FP	17 41 00.7
COL EP	17 41 24.0
JAN 17	
EUR EP	17 44 41.0
JAN 17	
H-17 50 00.8	
20.9S 178.5W	
h ABOUT 561KM	
GUA IP	17 58 03.0
SLD EP	18 01 08.0
EpP	03 10.5
BCN EP	18 01 27.5
EUR IP	18 01 32.5
F	02 15.9
FpP	03 37.6
TUC IP D	18 01 33.0
EpP	03 37.0
GCA IP	18 01 41.1
EpP	03 42.9
BMO IP	18 01 42.8

Date and Station	Phase (GCT)
	h m s
ALQ IP	18 01 53.2
IpP	03 57.4
COL IP	18 01 54.0
HHM EP	18 02 00.3
BRW IP	18 02 14.9
JAN 17	
BMO E(P)	18 03 46.4
JAN 17	
H-18 09 05.9	
21.6N 142.9E	
h ABOUT 324KM	
GUA IP	18 11 04.0
BRW IP	18 18 42.0
COL IP	18 18 52.4
BMO IP	18 20 50.2
JAN 17	
BMO E(P)	18 10 38.8
JAN 17	
BMO E(P)	18 11 37.0
JAN 17	
BMO EP	18 19 40.2
JAN 17	
BMO EP	18 27 50.4
JAN 17	
BRW EP	18 38 12.5
JAN 17	
H-18 56 15.5	
52.0N 171.2W	
h ABOUT 39KM	
COL IP	19 00 18.9
BRW EP	19 00 52.0
BMO EP	19 03 11.8
HHM EP	19 03 14.3
FUR IP	19 03 44.7
I	03 53.0
BCN EP	19 04 09.0
TUC EP	19 04 47.6
ALQ IP	19 04 54.2
CED E(P)	19 05 05.5
F	05 21.0
JAN 17	
FUR IP	19 09 41.4
JAN 17	
H-20 04 58.6	
38.2N 022.0E	
h ABOUT 67KM	
BMO EP	20 17 50.8

Date and Station	Phase (GCT)
	h m s
JAN 17	
EUR EP	20 20 36.5
JAN 17	
BMO E(P)	21 15 34.2
JAN 17	
COL EP	21 33 36.5
BMO E(P)	21 38 43.0
JAN 17	
EUR IP	21 41 15.2
JAN 17	
EUR IP	21 59 33.5
JAN 17	
EUR IP	22 17 04.6
JAN 17	
CED E(P)	22 33 38.0
E	33 43.0
IL	34 24.5
JAN 17	
COL EP	23 22 25.0
JAN 18	
EUR FP	00 00 15.2
JAN 18	
EUR IP	00 30 31.2
JAN 18	
H-01 13 12.4	
29.3N 130.3E	
h ABOUT 10KM	
GUA IP	01 17 56.0
E(S)	21 51.0
BRW FP	01 23 00.5
I	23 13.3
COL IP	01 23 24.5
HHM EP	01 25 43.2
BMO EP	01 25 44.1
SLD FP	01 25 54.5
I	26 02.8
BOZ EP	01 25 57.9
I	26 05.0
EUR EP	01 26 04.8
I	26 12.9
FPP	29 21.5
SLC FP	01 26 12.6
F	26 21.4
FGU FP	01 26 19.0
JAN 18	
COL E(P)	01 38 59.2
JAN 18	
BMO FP	02 18 49.5
JAN 18	
ALQ E(P)	02 34 55.2

Date and Station	Phase	(GCT) h m s
JAN 18		
COL	IP	03 09 07.3
JAN 18		
BOZ	EP	03 25 26.0
	ES	25 52.0
FGU	E(P)	03 25 42.5
	EL	26 25.0
BMO	E(P)	03 26 04.6
JAN 18		
COL	EP	03 52 48.0
JAN 18		
H-03 56 10.6		
17.2S 178.7W		
h ABOUT 539KM		
BMO	EP	04 07 41.1
COL	EP	04 07 50.0
JAN 18		
FGU	IPG	05 05 15.9
	EL	05 50.0
JAN 18		
BOZ	EP	05 33 34.5
JAN 18		
BMO	E(P)	05 35 24.4
JAN 18		
H-05 39 56.4		
18.0S 178.2W		
h ABOUT 550KM		
EUR	IP	05 51 18.8
TUC	EP	05 51 20.0
BMO	EP	05 51 28.4
COL	IP	05 51 36.7
ALQ	EP	05 51 40.0
FGU	EP	05 51 43.3
JAN 18		
H-06 27 15.0		
18.8S 177.6W		
h ABOUT 389KM		
GUA	EP	06 35 24.6
SLD	EP	06 38 27.5
BCN	EP	06 38 48.2
EUR	IP	06 38 52.5
	I	39 19.0
TUC	EP	06 38 54.0
	E	39 17.7
GCA	IP C	06 39 02.3
	E▸P	40 34.0
BMO	EP	06 39 03.2
SLC	EP	06 39 05.5
COL	IP	06 39 14.3
	I▸P	40 47.5
ALQ	IP	06 39 14.5
	I▸P	40 47.4
FGU	EP	06 39 18.2
	E▸P	40 50.5
HHM	E(P)	06 39 20.3
BOZ	IP	06 39 22.0
CED	E(P)	06 39 33.0
BRW	IP	06 39 35.5
RCD	E(P)	06 39 43.0
JAN 18		
COL	EP	06 49 09.0
JAN 18		
BMO	EP	06 57 18.4
JAN 18		
TUC	EP	07 25 25.0
RCD	EP	07 25 33.0
BMO	E(P)	07 25 46.0
EUR	IP	07 25 46.5
BMO	EP	07 26 12.6
JAN 18		
SLD	EP	07 42 37.5
	IL	43 11.0
BCN	E(P)	07 42 40.5
	EL	43 17.0
EUR	EP	07 42 49.0
	E	07 42 57.5
	ES	43 40.6
JAN 18		
CED	IP	07 43 29.3
	I	43 33.2
	IL	44 08.0
JAN 18		
SJG	IP	08 57 43.7
	IS	57 59.0
JAN 18		
COL	EP	09 37 41.0
JAN 18		
BMO	EP	09 55 42.9
EUR	E(P)	09 55 57.3
JAN 18		
EUR	EP	10 05 25.1
JAN 18		
BMO	FP	10 10 54.2
JAN 18		
BMO	EP	10 19 09.6
JAN 18		
BMO	EP	10 22 21.4
JAN 18		
BMO	E(P)	10 23 27.3
JAN 18		
H-10 25 59.3		
03.6S 080.9W		
h ABOUT 75KM		
SJG	E(P)	10 31 26.5
BMO	E(P)	10 35 46.5
JAN 18		
COL	EP	10 39 47.0
JAN 18		
BMO	E(P)	11 06 15.6
JAN 18		
GCA	IP C	11 51 03.8
	IS	51 09.1
JAN 18		
H-12 14 52.4		
36.5N 070.9E		
h ABOUT 189KM		
COL	IP	12 26 11.5
JAN 18		
EUR	E(P)	12 17 14.5
JAN 18		
SJG	IP	13 06 08.0
	IL	07 06.5
JAN 18		
BMO	E(P)	14 44 23.0
COL	IP	14 44 33.7
JAN 18		
COL	EP	15 29 44.0
JAN 18		
GUA	EP	15 50 46.0
	IS	51 05.0
JAN 18		
EUR	EP	15 54 45.5
	E	55 16.2
BMO	EP	15 57 06.3
COL	E(P)	16 01 38.2
JAN 18		
BMO	FP	16 02 58.5
JAN 18		
TUC	EP	17 15 46.4
	EL	16 58.0
JAN 18		
BOZ	EP	17 52 18.5
JAN 18		
H-18 35 00.0		
37.0N 116.1W		
h ABOUT 0KM		
BCN	IP C	18 35 27.0
GCA	IP C	18 35 57.0
SLD	IP	18 36 06.0
	IL	37 15.5
SLC	EP	18 36 17.5
UKI	E(P)	18 36 36.0
	E	36 50.5
TUC	EP	18 36 36.5
	EL	38 28.0
FGU	IP C	18 36 39.4
CED	I(P)	18 36 48.6
	IS	36 57.1
BMO	EP	18 36 57.8
ALQ	IP	18 36 59.0
	I	37 30.0
	I	39 17.0
BUT	EP	18 37 19.5
HHM	EP	18 37 46.8
RCD	EP	18 37 53.0
	E	38 09.0
COL	EP	18 41 42.0
BRW	EP	18 42 37.3
SJG	EP	18 43 37.9
JAN 18		
BOZ	EP	18 36 42.0
	E	37 18.0
EUR	EP	19 02 56.0
JAN 18		
EUR	IP	19 14 06.0
JAN 18		
BCN	FP	19 28 49.5
	IL	29 11.0
JAN 18		
BCN	EP	19 32 39.8
BMO	FP	19 34 48.0
JAN 18		
COL	FP	19 40 09.0
JAN 18		
BMO	E(P)	19 57 15.8
COL	FP	19 59 59.0
JAN 18		
H-20 19 24.7		
02.6S 138.8E		
h ABOUT 47KM		
GUA	E(P)	20 23 24.0
	ES	26 19.0
BRW	IP	20 31 53.6

Date and Station	Phase (GCT)
	h m s
COL IP	20 31 57.7
EUR E(P)	20 33 12.3
E	33 32.4
SJG EP'	20 39 08.8
I	39 14.5
JAN 18	
H-20 20 25.0	
46.0N 026.8E	
h ABOUT 69KM	
BRW EP	20 30 47.2
COL EP	20 31 27.0
BMO EP	20 32 48.2
JAN 18	
SJG E(P)	20 33 25.5
EL	34 09.7
JAN 18	
BMO EP	20 28 57.2
JAN 18	
BMO EP	20 48 46.6
JAN 18	
H-21 20 04.0	
35.2N 023.5E	
h ABOUT 71KM	
BRW E(P)	21 31 20.2
HHM EP	21 32 52.2
BMO EP	21 33 10.7
JAN 18	
H-21 28 51.5	
61.4N 151.9W	
h ABOUT 80KM	
COL IP	21 29 51.0
BMO IP	21 34 19.0
EUR IP	21 35 04.3
BCN EP	21 35 34.5
JAN 18	
H-21 46 01.5	
61.5N 150.7W	
h ABOUT 69KM	
COL IP	21 46 57.4
BRW IP	21 48 25.9
EUR EP	21 52 10.9
E	52 31.7
JAN 18	
EUR E(P)	22 00 57.1
JAN 18	
COL IP	22 40 21.9
JAN 18	
BMO EP	23 16 47.7

Date and Station	Phase (GCT)
	h m s
JAN 18	
BMO IPN	23 24 06.4
JAN 18	
EUR E(P)	23 25 35.9
BMO EP	23 26 47.7
JAN 18	
BMO E(P)	23 34 49.3
JAN 19	
BMO EP	00 36 14.3
JAN 19	
COL EP	00 48 57.0
EUR EP	00 52 36.0
JAN 19	
H-01 38 38.5	
51.2N 180.0W	
h ABOUT 33KM	
COL EP	01 43 26.0
BMO EP	01 46 23.0
BOZ E(P)	01 46 45.0
EUR IP	01 46 54.5
JAN 19	
H-01 45 26.5	
03.4N 097.3E	
h ABOUT 33KM	
BMO EP'	02 04 21.3
BOZ EP'	02 04 24.9
EUR IP'	02 04 31.0
TUC EP'	02 04 47.2
JAN 19	
COL IP	02 19 57.9
BMO EP	02 22 56.9
EUR IP	02 23 25.2
E	24 01.7
JAN 19	
BMO EP	02 23 44.4
JAN 19	
H-03 06 27.4	
35.4N 118.7W	
h ABOUT 33KM	
CED IP	03 06 53.9
I	06 55.6
IL	07 17.4
SLD IP	03 07 09.1
IL	07 52.1
BCN EP	03 07 16.0
I	07 26.5
IL	08 08.1

Date and Station	Phase (GCT)
	h m s
EUR IP	03 07 37.8
I	07 50.3
IL	08 52.9
TUC E(P)	03 08 21.0
JAN 19	
BMO EP	03 32 08.3
EUR EP	03 32 30.0
JAN 19	
BMO EP	03 35 20.8
JAN 19	
BMO EP	03 40 07.4
JAN 19	
BMO E(P)	03 40 08.3
JAN 19	
EUR IP	04 16 43.5
BMO EP	04 17 17.1
JAN 19	
H-04 24 58.1	
14.1N 092.4W	
h ABOUT 33KM	
ALQ IP	04 30 14.8
TUC EP	04 30 17.0
BCN E(P)	04 31 02.2
BMO EP	04 32 08.1
COL IP	04 35 23.0
JAN 19	
COL IP	04 27 36.0
BMO EP	04 30 32.6
EUR IP	04 31 06.0
JAN 19	
H-04 44 31.1	
17.8S 071.4W	
h ABOUT 83KM	
SJG EP	04 51 23.5
CSC E(P)	04 53 36.0
ALQ IP	04 54 47.8
TUC EP	04 54 50.1
GCA EP	04 55 16.7
BCN EP	04 55 23.5
E&P	55 36.8
BCD E	04 55 26.0
E	55 32.0
FGU IP	04 55 27.8
E&P	55 43.1
EUR EP	04 55 42.2
E(&P)	55 55.0

Date and Station	Phase (GCT)
	h m s
SLD EP	04 55 48.3
BOZ EP	04 55 54.6
E&P	56 09.5
BMO EP	04 56 08.3
JAN 19	
TUC E(P)	05 12 20.6
JAN 19	
EUR IP	05 38 38.8
IL	38 48.0
JAN 19	
BRW EP	06 19 13.8
JAN 19	
BHP IP	07 36 01.5
IS	36 20.7
JAN 19	
BMO E(P)	07 39 48.8
JAN 19	
EUR E(P)	08 10 53.2
JAN 19	
GUA EP	08 20 26.0
ES	20 51.0
JAN 19	
H-09 05 46.3	
41.7N 141.8E	
h ABOUT 58KM	
BRW EP	09 13 32.1
COL IP	09 13 58.9
BMO EP	09 16 45.0
EUR EP	09 17 10.5
E	17 27.0
E	19 15.3
JAN 19	
H-09 16 39.7	
44.2N 129.0W	
h ABOUT 33KM	
BMO EP	09 18 42.9
EUR E(P)	09 19 15.0
ALQ IP	09 21 04.5
JAN 19	
GUA IP	10 45 09.0
IS	45 22.0
JAN 19	
H-11 49 58.3	
20.6S 177.6W	
h ABOUT 518KM	
EUR EP	12 01 29.5

Date and Station	Phase	(GCT)
		h m s
BMO	EP	12 01 40.6
COL	IP	12 01 54.7
JAN 19		
FGU	IP	12 38 03.3
	IL	38 29.0
EUR	EP	12 38 36.8
JAN 19		
H-12 48 00.3		
51.8N 176.1E		
h ABOUT 33KM		
BRW	EP	12 53 04.2
COL	EP	12 53 05.0
BMO	EP	12 56 04.3
EUR	EP	12 56 31.5
JAN 19		
COL	E(P)	13 19 10.7
JAN 19		
H-13 46 01.6		
20.8S 178.4W		
h ABOUT 582KM		
EUR	IP	13 57 30.7
TUC	EP	13 57 31.0
BMO	EP	13 57 41.0
COL	EP	13 57 51.0
ALQ	IP	13 57 51.0
JAN 19		
BMO	EP	14 27 59.0
JAN 19		
BMO	E(P)	14 59 22.7
COL	E(P)	15 00 04.0
JAN 19		
GUA	EP	15 29 51.0
	ES	30 03.0
JAN 19		
BMO	E(P)	15 41 58.4
JAN 19		
EUR	EP	16 29 50.5
JAN 19		
BRW	EP	16 54 40.3
JAN 19		
BMO	E(P)	18 30 09.9
JAN 19		
BMO	EP	19 10 02.8
JAN 19		
CED	IP	19 15 11.4
	IS	15 22.3
JAN 19		
BMO	EP	19 46 26.9

Date and Station	Phase	(GCT)
		h m s
JAN 19		
EUR	IP	19 53 56.2
JAN 19		
H-20 02 34.1		
37.0N 121.5W		
h ABOUT 6KM		
SLD	I(P)	20 02 38.5
	IS	02 41.8
JAN 19		
EUR	IP	20 05 09.3
JAN 19		
EUR	EP	20 46 49.5
JAN 19		
H-21 06 31.1		
22.6N 143.4E		
h ABOUT 106KM		
COL	EP	21 16 34.0
BMO	EP	21 18 34.6
EUR	IP	21 18 50.6
	I	19 26.3
JAN 19		
BRW	IP	21 16 58.9
EUR	IP	21 17 09.0
JAN 19		
BMO	EP	21 29 32.4
JAN 19		
EUR	EP	22 01 09.8
JAN 19		
COL	EP	22 23 56.0
EUR	IP	22 27 32.7
JAN 19		
TUC	E(P)	22 35 48.4
JAN 19		
EUR	IP	22 45 08.3
JAN 19		
BMO	E(P)	22 55 46.0
JAN 19		
COL	EP	23 12 28.0
JAN 19		
EUR	IP	23 56 01.2
JAN 20		
EUR	IP	00 09 08.2
BMO	EP	00 09 16.2
JAN 20		
H-00 38 59.2		
39.2N 024.3E		
h ABOUT 12KM		
BMO	EP	00 51 56.3
JAN 20		
COL	EP	01 02 25.0

Date and Station	Phase	(GCT)
		h m s
EUR	IP	01 03 15.0
JAN 20		
COL	EP	01 37 06.0
JAN 20		
H-01 44 45.4		
37.9N 138.0E		
h ABOUT 6KM		
GUA	E(P)	01 50 19.0
	ES	54 36.0
BRW	IP C	01 53 16.0
	I	53 20.4
	EPCP	54 54.8
COL	IP	01 53 40.0
HHM	EP	01 56 17.1
BMO	EP	01 56 19.2
BUT	EP	01 56 30.0
SLD	EP	01 56 32.7
EUR	IP	01 56 43.0
	I	56 46.9
	EPP	59 18.0
CED	EP	01 56 56.2
SLC	EP	01 56 57.0
FGU	E(P)	01 56 58.5
BCN	EP	01 56 59.0
	I	57 03.6
RCD	EP	01 57 05.0
	F	57 10.0
GCA	EP	01 57 06.2
	F	57 10.4
TUC	IP	01 57 24.5
	I	57 29.0
ALQ	IP	01 57 29.5
JAN 20		
BMO	E(P)	02 29 12.0
JAN 20		
H-02 39 36.4		
24.0S 177.5W		
h ABOUT 482KM		
TUC	EP	02 51 21.0
EUR	EP	02 51 22.6
BMO	E(P)	02 51 34.3
JAN 20		
BRW	E(P)	03 27 19.8
COL	EP	03 28 08.0
EUR	IP	03 31 31.4

Date and Station	Phase	(GCT)
		h m s
JAN 20		
H-04 27 44.4		
15.2S 168.1E		
h ABOUT 23KM		
GUA	EP	04 34 49.0
	ES	41 24.0
FGU	E(P)	04 40 02.0
SLD	E(P)	04 40 07.5
	EPP	43 33.0
COL	EP	04 40 24.0
CED	EP	04 40 25.8
BRW	EP	04 40 37.0
BCN	EP	04 40 37.6
EUR	EP	04 40 39.1
	I	40 53.7
	EPP	43 32.0
BMO	EP	04 40 43.0
TUC	EP	04 40 47.5
GCA	EP	04 40 51.2
SLC	EP	04 40 55.0
ALQ	IP	04 41 06.5
JAN 20		
EUR	IP	05 12 31.9
JAN 20		
COL	EP	05 28 40.0
JAN 20		
H-05 34 43.8		
15.2S 168.1E		
h ABOUT 18KM		
COL	EP	05 47 24.0
BCN	EP	05 47 37.0
EUR	IP	05 47 39.5
BMO	E(P)	05 47 41.8
TUC	E(P)	05 47 50.0
JAN 20		
H-06 40 45.1		
54.0N 164.5W		
h ABOUT 33KM		
COL	EP	06 44 03.0
BMO	E(P)	06 46 56.8
EUR	IP	06 47 41.2
JAN 20		
H-07 14 04.2		
14.9S 075.7W		
h ABOUT 46KM		
ALQ	EP	07 23 51.5

Date and Station	Phase (GCT)
	h m s
TUC EP	07 23 53.3
CED EP	07 24 29.9
FGU EP	07 24 33.8
EUR EP	07 24 48.1
E	25 04.6
I	25 18.4
BMO EP	07 25 16.6
JAN 20	
TUC E(P)	07 58 56.1
JAN 20	
ALQ IP	08 06 11.0
JAN 20	
TUC E(P)	08 13 04.2
JAN 20	
TUC E(P)	09 06 06.4
JAN 20	
COL EP	09 12 16.9
JAN 20	
COL EP	09 42 03.0
JAN 20	
TUC E(P)	10 46 29.0
JAN 20	
COL EP	10 52 49.0
JAN 20	
H-11 03 55.6	
25.1S 180.0	
h ABOUT 409KM	
CED EP	11 15 41.9
TUC EP	11 15 59.3
EUR IP	11 16 00.5
BMO EP	11 16 10.9
COL EP	11 16 23.0
JAN 20	
COL E(P)	11 38 03.0
JAN 20	
EUR IP	11 53 35.0
I	53 39.8
JAN 20	
BMO EP	12 20 53.1
JAN 20	
H-14 46 05.2	
53.0N 171.8E	
h ABOUT 21KM	
BRW IP C	14 51 10.4
I	51 24.6
EL	54 59.5
COL IP	14 51 15.3
HHM EP	14 54 24.4

Date and Station	Phase (GCT)
	h m s
BMO IP	14 54 25.0
EUR IP	14 54 57.2
CED EP	14 55 17.1
I	55 26.1
BCN EP	14 55 20.0
E	55 27.0
RCD EP	14 55 29.5
E	55 37.0
TUC EP	14 55 56.4
ALQ IP	14 56 01.0
I	56 08.0
JAN 20	
H-15 01 55.4	
15.2S 172.7W	
h ABOUT 33KM	
EUR IP	15 13 40.0
TUC EP	15 13 40.6
E	13 49.0
GCA EP	15 13 51.4
BMO IP	15 13 52.6
BUT E(P)	15 14 08.4
COL IP	15 14 12.1
HHM E(P)	15 14 12.5
JAN 20	
H-15 21 12.1	
32.7N 131.4E	
h ABOUT 29KM	
COL EP	15 31 02.0
BMO EP	15 33 25.7
EUR IP	15 33 46.0
JAN 20	
RCD E(P)	15 51 06.0
F	52 04.0
JAN 20	
H-16 04 21.7	
43.8N 147.5E	
h ABOUT 33KM	
COL IP	16 12 02.7
BMO E(P)	16 15 05.2
EUR IP	16 15 20.5
JAN 20	
COL IP	16 17 31.0
JAN 20	
COL IP	16 18 23.6
JAN 20	
H-16 32 19.2	
52.4N 169.6W	
h ABOUT 14KM	

Date and Station	Phase (GCT)
	h m s
COL IP	16 36 15.1
BRW IP	16 36 58.0
BMO IP	16 39 10.8
HHM EP	16 39 12.5
EUR IP	16 39 43.2
RCD E(P)	16 40 24.0
E	40 34.5
TUC EP	16 40 46.5
JAN 20	
COL EP	16 33 35.0
JAN 20	
BMO IP	16 41 42.7
JAN 20	
EUR EP	16 41 55.3
I	42 06.5
JAN 20	
COL EP	17 27 10.3
JAN 20	
H-17 41 44.9	
44.7N 128.3W	
h ABOUT 33KM	
BMO EP	17 43 38.6
EUR E(P)	17 44 17.0
JAN 20	
BMO EP	19 11 31.3
JAN 20	
BCN EP	19 12 38.7
E	12 42.0
JAN 20	
BRW EP	19 35 34.2
COL EP	19 35 37.0
BMO E(P)	19 38 48.4
JAN 20	
H-19 51 25.1	
51.9N 130.3W	
h ABOUT 33KM	
BMO E(P)	19 54 01.8
HHM EP	19 54 03.9
EUR IP	19 55 08.5
RCD E(P)	19 55 56.0
JAN 20	
SIT E(P)	19 54 30.0
JAN 20	
COL EP	20 00 09.0
EUR IP	20 00 23.8
JAN 20	
BRW E(P)	20 21 48.0

Date and Station	Phase (GCT)
	h m s
JAN 20	
H-21 31 24.5	
00.5S 079.7W	
h ABOUT 53KM	
ALQ IP	21 39 23.8
JAN 20	
BMO EP	22 00 57.2
JAN 20	
H-23 37 02.8	
22.9N 121.3E	
h ABOUT 69KM	
GUA IP	23 42 15.0
ES	46 15.0
ET	24 07 13.0
COL EP	23 48 08.0
BMO E(P)	23 50 28.4
JAN 20	
BMO EP	23 46 10.4
JAN 21	
BRW EP	00 08 42.5
JAN 21	
H-00 27 16.2	
11.3N 062.2W	
h ABOUT 154KM	
SJG EP	00 29 09.5
ALQ EP	00 35 30.8
BMO EP	00 36 51.5
JAN 21	
H-01 32 19.7	
23.6S 179.8E	
h ABOUT 611KM	
BMO E(P)	01 44 11.8
JAN 21	
BMO E(P)	01 46 13.0
JAN 21	
H-02 20 01.7	
23.7S 179.5E	
h ABOUT 645KM	
EUR EP	02 31 41.5
TUC EP	02 31 42.0
BMO EP	02 31 52.5
COL EP	02 32 03.0
JAN 21	
COL IP	02 55 24.8
JAN 21	
BMO EP	03 29 03.4
COL IP	03 29 53.4
JAN 21	
BMO EP	03 58 22.4

Date and Station	Phase (GCT)
	h m s
JAN 21	
EUR EP	04 08 07.2
JAN 21	
BHP IP	04 09 21.0
IS	10 04.0
JAN 21	
H-04 10 36.1	
37.0N 121.5W	
h ABOUT 6KM	
SLD I(P)	04 10 40.5
IS	10 43.7
CFD E(P)	04 11 41.0
IL	12 46.6
EUR EP	04 11 56.8
EP	12 10.0
IS	13 11.0
EUR I(P)	04 12 10.0
JAN 21	
BMO EP	04 13 13.5
JAN 21	
BMO E(P)	04 26 21.9
JAN 21	
COL EP	05 50 40.7
JAN 21	
BRW E(P)	06 40 15.1
JAN 21	
FGU EP	07 52 42.7
JAN 21	
COL IP	08 13 17.2
BMO EP	08 17 46.1
JAN 21	
COL EP	08 26 45.0
JAN 21	
COL IP	09 26 46.1
JAN 21	
SJG E(P)	09 29 00.6
EL	30 08.0
JAN 21	
H-09 43 27.6	
43.0N 145.8E	
h ABOUT 48KM	
COL IP	09 51 17.9
BMO EP	09 54 07.8
EUR IP	09 54 34.0
CED EP	09 54 49.1
TUC E(P)	09 55 20.8
JAN 21	
COL EP	10 56 49.0
JAN 21	
COL IP	11 05 11.6

Date and Station	Phase (GCT)
	h m s
BMO EP	11 07 44.5
JAN 21	
TUC E(P)	11 17 16.0
EL	18 39.0
JAN 21	
ALQ E(P)	11 20 19.5
JAN 21	
COL EP	12 14 10.0
EUR EP	12 18 54.8
JAN 21	
EUR EP	13 16 29.2
COL EP	13 19 35.0
JAN 21	
CFD E(P)	13 36 25.0
IL	36 55.1
JAN 21	
COL EP	13 38 28.0
JAN 21	
EUR IP	14 37 18.2
JAN 21	
EUR IP	17 52 16.2
JAN 21	
H-18 03 30.2	
51.2N 179.3E	
h ABOUT 45KM	
COL IP	18 08 20.1
BMO EP	18 11 16.5
EUR IP	18 11 48.0
JAN 21	
COL EP	18 19 51.0
JAN 21	
H-18 20 22.8	
05.6N 077.6W	
h ABOUT 4KM	
BHP IP	18 21 23.3
ALQ IP	18 27 58.0
I	30 29.3
TUC IP D	18 28 09.2
GCA EP	18 28 35.7
RCD E(P)	18 28 36.0
FGU EP	18 28 44.2
SLC E(P)	18 28 55.6
BOZ EP	18 29 17.3
BUT E(P)	18 29 21.3
BMO EP	18 29 36.6
HHM EP	18 29 39.0

Date and Station	Phase (GCT)
	h m s
COL EP	18 32 16.0
JAN 21	
COL IP	18 27 44.2
JAN 21	
H-18 28 00.0	
37.1N 116.1W	
h ABOUT 0KM	
BCN IP C	18 28 26.0
EUR IP	18 28 41.0
GCA EP	18 28 56.2
I	29 05.4
SLD I(P)	18 29 04.5
IL	30 14.5
TUC (P)	18 29 36.0
FGU E(P)	18 29 37.8
BMO E(P)	18 30 15.5
JAN 21	
H-19 03 19.3	
37.0N 115.8W	
h ABOUT 0KM	
BCN EP	19 03 44.5
EUR IP	19 04 02.5
GCA E(P)	19 04 23.3
E	04 25.8
SLD E(P)	19 04 27.5
EL	05 36.0
JAN 21	
BMO EP	20 07 53.1
JAN 21	
EUR IP	20 09 39.6
JAN 21	
COL EP	20 38 13.0
JAN 21	
EUR E(P)	21 10 54.1
JAN 21	
RCD E(P)	21 30 23.0
JAN 21	
BMO EP	21 43 20.5
JAN 21	
FGU IP	21 43 59.4
IS	44 20.3
SLC EP	21 44 02.9
E	44 24.9
GCA EP	21 44 48.1
JAN 21	
EUR IP	21 54 22.0
JAN 21	
BMO EP	22 16 16.2
COL IP	22 16 27.0

Date and Station	Phase (GCT)
	h m s
JAN 21	
BMO EP	22 28 50.5
JAN 21	
BCN IP	22 40 01.8
IS	40 14.0
JAN 21	
CFD E(P)	23 04 15.4
IL	04 55.5
JAN 21	
COL IP	23 11 47.6
JAN 21	
EUR IP	23 25 27.2
JAN 22	
BMO EP	00 11 33.1
JAN 22	
H-00 23 42.1	
37.7N 030.0E	
h ABOUT 20KM	
COL IP	00 35 40.1
BMO EP	00 36 53.6
JAN 22	
BMO IP	00 42 53.3
JAN 22	
BMO IP	00 43 53.3
JAN 22	
BMO E(P)	01 31 07.8
JAN 22	
H-02 04 42.2	
19.0N 108.0W	
h ABOUT 33KM	
ALQ IP	02 08 31.0
EUR IP	02 09 31.4
BMO EP	02 10 22.6
JAN 22	
H-02 19 45.9	
34.2N 116.5W	
h ABOUT 16KM	
CFD IP	02 20 00.2
IS	20 09.5
BCN IP	02 20 23.4
IL	20 58.2
SLD E(P)	02 20 50.0
IL	22 30.5
TUC E(P)	02 21 02.5
EUR EP	02 21 08.0
EL	22 32.0
JAN 22	
BMO P	02 44 35.9

Date and Station	Phase (GCT)
	h m s
JAN 22	
H-02 52 23.2	
16.5N 095.4W	
h ABOUT 33KM	
ALQ E(P)	02 57 06.0
JAN 22	
BMO E(P)	02 58 32.9
EUR EP	02 59 05.8
JAN 22	
H-03 17 30.1	
35.6N 118.4W	
h ABOUT 16KM	
CED IP	03 17 58.0
I	17 59.3
IL	18 19.5
SLD E(P)	03 18 14.0
IL	18 54.3
BCN EP	03 18 16.4
I	18 25.3
IL	19 04.3
EUR EP	03 18 40.0
JAN 22	
COL IP	03 40 24.2
JAN 22	
BMO E(P)	03 53 04.9
COL EP	03 53 27.0
JAN 22	
COL IP	03 55 41.6
JAN 22	
H-03 54 51.9	
28.9S 176.7W	
h ABOUT 27KM	
BCN EP	04 07 36.4
TUC EP	04 07 39.6
EUR IP	04 07 43.6
BMO EP	04 07 56.0
COL EP	04 08 16.0
JAN 22	
EUR EP	04 14 49.0
ALQ E(P)	04 15 04.0
JAN 22	
ALQ EP	04 18 15.5
JAN 22	
BMO E(P)	04 39 45.7
JAN 22	
BMO E(P)	05 04 22.7
JAN 22	
TUC E(P)	05 21 34.0

Date and Station	Phase (GCT)
	h m s
JAN 22	
BMO E(P)	05 49 11.8
JAN 22	
H-07 02 39.4	
20.7S 174.3W	
h ABOUT 33KM	
BMO EP	07 15 04.4
ALQ IP	07 15 14.5
JAN 22	
COL EP	07 30 23.0
JAN 22	
H-07 36 49.5	
17.3N 094.2W	
h ABOUT 142KM	
ALQ IP	07 41 21.0
I	41 52.1
TUC EP	07 41 26.3
GCA EP	07 42 02.4
BCN IP	07 42 12.3
IPP	42 44.0
IPCP	45 34.5
CED IP	07 42 18.3
FGU EP	07 42 19.8
IPP	42 52.0
SLC EP	07 42 28.4
IPP	43 01.1
EUR EP	07 42 39.2
EPP	43 11.4
SLD IP	07 42 55.0
EPP	43 26.5
BOZ EP	07 43 02.0
EPP	43 34.5
BUT EP	07 43 08.7
HHM EP	07 43 29.7
COL IP	07 46 37.6
BRW EP	07 47 14.7
IPP	47 50.2
JAN 22	
H-07 47 44.9	
18.8N 101.2W	
h ABOUT 116KM	
TUC E(P)	07 51 26.0
ALQ IP	07 51 34.5
I	51 48.9
GCA EP	07 52 13.9
BCN EP	07 52 20.6
EUR IP	07 52 52.0
BMO EP	07 53 36.2

Date and Station	Phase (GCT)
	h m s
COL EP	07 57 07.0
JAN 22	
BMO E(P)	07 56 43.4
JAN 22	
COL I(P)	08 02 13.2
I	02 23.8
JAN 22	
H-08 26 05.0	
19.1N 107.9W	
h ABOUT 33KM	
ALQ IP	08 29 52.7
EUR E(P)	08 30 54.0
BMO EP	08 31 43.8
JAN 22	
COL IP	08 26 31.5
JAN 22	
BMO EP	08 43 17.5
JAN 22	
H-11 01 05.2	
18.1S 178.4W	
h ABOUT 598KM	
SLD EP	11 11 58.4
CED EP	11 12 04.3
BCN EP	11 12 18.5
E	12 31.0
EUR IP	11 12 23.2
TUC EP	11 12 24.5
GCA IP C	11 12 33.1
COL IP	11 12 41.9
ALQ EP	11 12 45.6
E	19 36.5
FGU EP	11 12 48.0
BUT EP	11 12 49.2
HHM EP	11 12 49.7
BOZ IP	11 12 51.0
BRW IP	11 13 03.4
JAN 22	
BMO EP	11 01 46.9
EUR EP	11 02 03.5
JAN 22	
TUC E(P)	11 19 41.0
JAN 22	
GCA IP C	12 16 45.1
IS	16 52.1
BCN EP	12 17 15.0
EL	17 47.0

Date and Station	Phase (GCT)
	h m s
EUR EP	12 17 46.5
JAN 22	
BMO E(P)	12 39 13.1
JAN 22	
H-12 42 05.2	
22.3S 065.8W	
h ABOUT 246KM	
ALQ E(P)	12 52 44.0
BMO EP	12 53 57.7
JAN 22	
BMO EP	12 55 05.3
JAN 22	
BMO EP	13 22 45.9
JAN 22	
EUR IP	13 51 15.8
JAN 22	
H-14 05 41.3	
10.3S 074.7W	
h ABOUT 95KM	
BMO EP	14 16 26.2
JAN 22	
H-14 27 07.9	
56.0N 153.7W	
h ABOUT 33KM	
COL IP	14 29 22.0
IL	31 54.0
SIT EP	14 29 40.0
EL	34 00.0
BRW E(P)	14 30 39.7
IS	33 51.2
EL	33 59.7
HHM EP	14 32 32.1
FS	37 04.1
BMO EP	14 32 34.4
F	41.0
E(PP)	33 12.2
FPCP	36 01.3
FS	37 08.0
UKI E(P)	14 32 44.5
BUT E(P)	14 32 51.1
E(S)	37 39.1
BOZ EP	14 32 57.0
E(S)	37 10.0
SLD EP	14 33 03.4
FPCP	36 20.5
EL	39 53.5
EUR IP	14 33 13.9
F	36 23.4
SLC EP	14 33 28.0

Date and Station	Phase	Phase (GCT) h m s
FGU	EP	14 33 36.0
	EPCP	36 32.0
	E	40 05.0
CED	IP	14 33 41.9
BCN	IP D	14 33 42.0
	EPCP	36 33.5
	ES	40 11.0
	EL	44 23.0
GCA	EP	14 33 50.7
KIP	IP	14 33 55.3
	ES	39 28.0
	EL	41 19.0
HON	I(P)	14 34 02.0
	IS	39 29.8
TUC	IP	14 34 24.5
	ES	40 23.0
ALQ	IP	14 34 27.5
	IPCP	36 50.3
	IS	40 27.0
WSC	EP	14 36 12.1
WAS	E(P)	14 36 21.0
CSC	E(P)	14 36 22.0
BHP	EP	14 38 41.0
SJG	EP	14 38 45.2
	ES	48 11.0
PHI	E(S)	14 43 35.9
JAN 22		
GCA	IP C	14 40 58.6
	IS	41 06.2
JAN 22		
COL	E(P)	15 01 16.2
BRW	EP	15 02 07.0
BMO	E(P)	15 06 21.4
JAN 22		
FUR	E(P)	15 55 26.0
	E	55 55.3
JAN 22		
BMO	E(P)	16 07 03.6
COL	EP	16 11 55.0
JAN 22		
COL	EP	16 17 54.0
JAN 22		
H-17 18 39.1		
41.4N 127.3W		
h ABOUT 33KM		
SLD	E(P)	17 20 12.5
	EL	21 28.0
BMO	EP	17 20 35.4
EUR	IP	17 20 50.2
BCN	EP	17 21 22.5
TUC	E(P)	17 22 30.0
JAN 22		
H-17 23 49.2		
41.7N 126.1W		
h ABOUT 33KM		
SLD	E(P)	17 25 03.8
	E	25 11.5
	IL	26 33.0
BMO	EP	17 25 34.6
EUR	EP	17 25 46.9
	I	25 55.0
	E(S)	27 10.9
BCN	E(P)	17 26 21.5
TUC	E(P)	17 27 29.0
	E	27 36.0
ALQ	EP	17 27 47.2
COL	EP	17 29 24.0
JAN 22		
BOZ	E(P)	17 25 47.0
JAN 22		
H-17 33 50.2		
41.7N 126.7W		
h ABOUT 33KM		
SLD	E(P)	17 35 15.5
	EL	36 32.0
BMO	EP	17 35 40.8
EUR	IP	17 35 54.2
TUC	E(P)	17 37 31.0
COL	EP	17 39 24.0
JAN 22		
BCN	EP	17 37 05.0
JAN 22		
BMO	EP	17 49 13.1
JAN 22		
H-18 31 00.9		
51.4N 156.9E		
h ABOUT 153KM		
COL	IP	18 37 04.7
BMO	P	18 40 14.8
BOZ	EP	18 40 32.7
EUR	IP	18 40 45.5
CED	IP	18 41 04.9
BCN	EP	18 41 06.5
TUC	E(P)	18 41 38.5
ALQ	IP	18 41 42.1
JAN 22		
H-18 59 48.4		
15.8S 167.6E		
h ABOUT 62KM		
COL	EP	19 12 28.0
JAN 22		
H-19 02 48.7		
10.8N 043.4W		
h ABOUT 33KM		
COL	EP	19 15 28.0
JAN 22		
EUR	EP	19 11 10.0
JAN 22		
H-19 36 32.2		
20.7S 174.6W		
h ABOUT 33KM		
BCN	EP	19 48 39.0
EUR	IP	19 48 46.8
GCA	EP	19 48 54.0
BMO	EP	19 48 59.2
ALQ	IP	19 49 07.2
COL	IP	19 49 20.0
JAN 22		
SLD	E(P)	19 46 18.5
	FL	48 23.5
EUR	EP	19 46 57.1
JAN 22		
BMO	EP	20 32 46.3
JAN 22		
EUR	E(P)	20 39 29.2
JAN 22		
ALQ	IP	20 49 38.6
	I	49 42.1
JAN 22		
BMO	E(P)	20 53 17.4
EUR	IP	20 53 48.8
JAN 22		
SJG	IP	20 59 40.7
	IS	21 00 01.5
JAN 22		
COL	IP	21 38 20.4
JAN 22		
H-22 07 33.9		
62.1N 141.3W		
h ABOUT 33KM		
COL	IP	22 08 34.1
	I	08 36.1
	IL	09 41.0
SIT	E(P)	22 09 05.4
BRW	IP	22 10 15.5
	ES	12 36.4
	FL	13 27.9
HHM	IP	22 12 09.4
	E	18 22.9
BUT	E(P)	22 12 28.1
BMO	EP	22 12 29.0
BOZ	EP	22 12 44.0
	EL	20 05.5
SLC	IP	22 13 17.3
EUR	IP	22 13 18.5
SLD	EP	22 13 23.5
FGU	EP	22 13 28.2
	I	13 49.2
BCN	EP	22 13 50.5
ALQ	IP	22 14 25.0
TUC	EP	22 14 31.5
JAN 22		
BMO	E(P)	22 14 08.0
JAN 22		
COL	EP	22 22 17.0
JAN 22		
COL	EP	22 30 59.0
JAN 22		
BCN	E(P)	22 31 14.5
JAN 22		
EUR	EP	22 57 14.7
JAN 22		
BMO	EP	22 58 58.0
JAN 22		
BMO	EP	23 17 27.1
JAN 22		
EUR	IP	23 59 09.2
JAN 23		
H-00 34 03.8		
63.9N 148.4W		
h ABOUT 119KM		
COL	IP	00 34 26.1
	IS	34 43.0
JAN 23		
BMO	E(P)	00 39 54.5
EUR	EP	00 40 27.5
JAN 23		
H-00 57 20.8		
16.0N 095.0W		
h ABOUT 43KM		
ALQ	EP	01 02 08.2
	IS	06 18.0

Date and Station	Phase (GCT)
	h m s
TUC IP	01 02 09.6
E	02 17.0
ES	06 09.0
GCA EP	01 02 47.0
BCN EP	01 02 57.5
I	00 03 07.5
EL	01 11 03.0
FGU EP	01 03 08.7
FUR EP	01 03 25.2
I	03 36.7
E(S)	07 36.4
EL	14 14.5
BOZ EP	01 03 50.6
BUT E(P)	01 03 55.1
E	03 08.1
BMO EP	01 04 05.1
HHM E(P)	01 04 20.7
COL IP	01 07 25.9
BRW E(P)	01 08 04.5
JAN 23	
BMO EP	01 06 39.3
JAN 23	
FUR IP	01 14 14.3
JAN 23	
H-01 31 31.1	
46.0N 011.8E	
h ABOUT 34KM	
BMO EP	01 43 34.1
JAN 23	
FUR E(P)	01 34 02.7
JAN 23	
FUR E(P)	01 55 27.5
EL	57 28.0
JAN 23	
H-01 56 38.8	
37.0N 107.0W	
h ABOUT 14KM	
ALQ IP	01 57 14.4
GCA IP C	01 57 36.6
I	57 47.0
IL	58 30.0
FGU IP D	01 57 47.5
SLC E(P)	01 57 59.9
E	59 04.9
IL	59 22.1
TUC EP	01 58 02.7
EL	59 32.0
BCN IP	01 58 15.0
I	58 35.5
IL	59 50.0

Date and Station	Phase (GCT)
	h m s
EUR IP	01 58 31.0
CED EP	01 58 49.2
I	59 25.3
IL	02 01 16.1
BOZ EP C	01 58 54.9
ES	02 00 16.0
EL	01 32.0
BMO EP	01 59 20.7
SLD IP	01 59 25.0
I	02 00 14.5
IL	02 31.0
HHM EP	01 59 39.6
E	02 01 17.7
EL	03 09.7
WSC EP	02 01 52.6
E	08 53.6
COL EP	02 03 49.0
SJG E(P)	02 04 20.0
BRW IP	02 04 37.3
PHI E(S)	02 06 13.1
I	11 35.3
JAN 23	
H-02 08 34.5	
37.0N 107.0W	
h ABOUT 5KM	
ALQ EP	02 09 10.5
GCA EP	02 09 32.3
I	09 42.7
IL	10 26.0
FGU E(P)	02 09 44.1
F	09 56.0
EL	10 48.0
TUC E(P)	02 10 02.5
BCN E(P)	02 10 15.5
E	10 33.7
EL	11 53.5
EUR E(P)	02 10 22.5
JAN 23	
H-02 13 13.5	
36.9N 107.0W	
h ABOUT 5KM	
ALQ IP	02 13 50.0
I	13 52.0
IS	14 15.0
GCA E(P)	02 14 11.5
I	14 21.5
IL	15 04.5
FGU E(P)	02 14 23.2
I	14 35.6
EL	15 30.6
TUC E(P)	02 14 46.4

Date and Station	Phase (GCT)
	h m s
BCN E(P)	02 14 50.5
EL	16 34.0
EUR E(P)	02 15 07.5
EL	17 10.7
JAN 23	
ALQ E(P)	02 19 38.0
JAN 23	
ALQ E(P)	02 19 38.5
JAN 23	
BOZ EP	02 24 26.6
JAN 23	
BOZ E(P)	02 24 55.0
JAN 23	
BOZ EP	02 35 34.5
JAN 23	
ALQ E(P)	02 46 40.0
JAN 23	
ALQ E(P)	02 46 41.5
E	47 09.0
JAN 23	
ALQ E(P)	03 01 38.0
E	02 06.0
JAN 23	
BOZ EP	03 11 38.0
JAN 23	
ALQ E(P)	03 29 03.0
F	29 28.0
JAN 23	
ALQ E(P)	03 49 07.0
F	49 32.5
JAN 23	
ALQ IP	03 49 07.6
E	49 33.0
JAN 23	
BOZ EP	03 54 20.0
JAN 23	
SJG IP	04 00 32.5
IS	00 53.2
JAN 23	
COL EP	04 02 29.0
TUC E(P)	04 04 33.3
JAN 23	
BMO E(P)	04 09 10.0
JAN 23	
ALQ E(P)	04 21 53.5
F	22 24.0
GCA E(P)	04 22 16.0
I	22 25.5
IL	23 09.5
JAN 23	
ALQ E(P)	04 26 49.0

Date and Station	Phase (GCT)
	h m s
JAN 23	
BMO EP	04 50 13.4
JAN 23	
H-04 50 14.1	
36.9N 107.4W	
h ABOUT 5KM	
ALQ E(P)	04 50 50.0
E	51 17.5
GCA E(P)	04 51 09.2
E	51 20.2
EL	52 03.0
JAN 23	
BMO EP	04 56 46.9
JAN 23	
ALQ E(P)	04 56 52.0
JAN 23	
ALQ E(P)	05 13 37.0
E	14 05.0
JAN 23	
H-05 19 47.8	
37.0N 107.2W	
h ABOUT 5KM	
ALQ E(P)	05 20 24.0
GCA E(P)	05 20 44.8
E	20 55.0
EL	21 36.6
JAN 23	
ALQ E(P)	05 34 23.0
E	34 41.0
E	35 09.0
GCA E(P)	05 35 01.0
E	35 11.5
IL	35 55.0
JAN 23	
ALQ E(P)	05 40 44.0
BMO E(P)	05 41 27.2
JAN 23	
ALQ E(P)	05 56 26.0
JAN 23	
BMO EP	06 01 20.8
JAN 23	
H-06 14 15.6	
36.9N 107.2W	
h ABOUT 5KM	
ALQ IP	06 14 51.5
I	14 53.5
IS	15 16.2
GCA EP	06 15 13.0
I	15 22.8
IL	16 06.5
FGU EP	06 15 25.8
I	15 37.0
IL	16 29.0
TUC E(P)	06 15 39.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	06 15 56.0
EL	17 34.8
EUR EP	06 16 07.2
EL	18 11.0
JAN 23	
ALQ E(P)	06 28 39.5
JAN 23	
ALQ E(P)	06 31 27.0
JAN 23	
BMO EP	06 37 25.1
JAN 23	
H-07 10 41.2	
36.9N 107.3W	
h ABOUT 5KM	
ALQ E(P)	07 11 16.8
GCA E(P)	07 11 36.0
E	11 46.0
EL	12 30.5
JAN 23	
ALQ E(P)	07 23 14.0
E	23 42.0
JAN 23	
H-07 35 08.1	
36.9N 107.3W	
h ABOUT 5KM	
ALQ E(P)	07 35 44.0
GCA E(P)	07 36 04.0
E	36 15.0
EL	36 58.0
JAN 23	
COL EP	07 39 42.0
BOZ E(P)	07 41 30.0
E	41 39.5
JAN 23	
H-07 41 15.7	
41.2N 126.4W	
h ABOUT 33KM	
SLD E(P)	07 42 39.8
EL	43 53.5
BMO EP	07 43 04.9
EUR EP	07 43 16.0
ALQ IP	07 45 11.4
E	45 38.9
JAN 23	
H-07 44 35.7	
36.9N 107.3W	
h ABOUT 5KM	
GCA E(P)	07 45 30.7
I	45 40.8
IL	46 25.5
FGU E(P)	07 45 45.0
E	45 56.4
EL	46 47.0

Date and Station	Phase (GCT)
	h m s
TUC E(P)	07 46 04.0
JAN 23	
EUR E(P)	07 48 06.6
JAN 23	
BMO E(P)	08 06 40.8
JAN 23	
ALQ E(P)	08 14 47.0
JAN 23	
BMO E(P)	08 29 43.2
JAN 23	
ALQ E(P)	08 33 10.5
E	33 37.0
JAN 23	
H-08 35 08.9	
18.0S 173.5W	
h ABOUT 64KM	
BMO E(P)	08 47 26.7
COL EP	08 47 38.0
JAN 23	
COL EP	08 43 04.0
JAN 23	
ALQ E(P)	08 59 00.0
E	59 26.0
JAN 23	
ALQ E(P)	09 15 22.5
E	15 50.0
JAN 23	
ALQ E(P)	09 38 39.0
JAN 23	
BMO EP	09 41 33.8
JAN 23	
COL IP	09 41 52.6
JAN 23	
BMO EP	09 42 17.1
EUR EP	09 42 29.6
JAN 23	
ALQ E(P)	09 52 05.0
JAN 23	
COL IP	10 25 48.5
JAN 23	
ALQ E(P)	10 43 27.0
E	43 53.0
JAN 23	
H-10 53 10.8	
36.9N 107.2W	
h ABOUT 5KM	
ALQ EP	10 53 45.5
I	53 47.6
ES	54 10.5
GCA EP	10 54 07.5
I	54 17.0
IL	55 00.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	10 55 01.0
JAN 23	
COL EP	10 54 44.0
JAN 23	
ALQ E(P)	10 56 48.0
EUR E(P)	10 57 06.3
E	58 05.0
BOZ EP	10 57 54.7
BMO EP	10 58 22.1
JAN 23	
H-11 01 07.1	
36.9N 107.2W	
h ABOUT 5KM	
ALQ IP	11 01 42.5
I	01 44.5
IS	02 07.0
GCA EP	11 02 03.0
I	02 13.0
IL	02 56.0
FGU EP	11 02 15.5
I	02 27.5
IL	03 19.8
TUC E(P)	11 02 31.5
BCN E(P)	11 02 43.0
I	02 05.5
EL	04 25.4
EUR EP	11 02 58.2
EL	05 03.0
BMO E(P)	11 03 49.1
JAN 23	
BRW IP	11 03 20.0
COL IP	11 03 42.0
BMO EP	11 06 39.3
BOZ E(P)	11 06 56.0
EUR FP	11 07 07.3
JAN 23	
ALQ (P)	11 15 39.0
GCA E(P)	11 15 59.5
E	16 09.0
EL	16 54.0
TUC E(P)	11 16 39.6
JAN 23	
H-11 15 55.3	
36.5N 138.3E	
h ABOUT 7KM	
BRW IP	11 24 36.5
COL EP	11 24 59.0
HHM E(P)	11 27 32.7

Date and Station	Phase (GCT)
	h m s
BMO EP	11 27 35.2
BOZ FP	11 27 50.5
EUR IP	11 27 56.8
JAN 23	
ALQ E(P)	11 24 26.5
E	24 53.0
GCA E(P)	11 24 45.3
E	24 56.0
EL	25 40.0
JAN 23	
H-12 14 36.0	
37.0N 107.1W	
h ABOUT 5KM	
ALQ E(P)	12 15 13.0
E	15 39.0
GCA E(P)	12 15 33.0
I	15 43.0
IL	16 28.0
TUC E(P)	12 16 07.8
EUR E(P)	12 16 29.0
JAN 23	
EUR E(P)	12 18 32.6
JAN 23	
EUR IP	12 24 47.2
JAN 23	
ALQ E(P)	12 24 51.0
E	25 17.0
GCA E(P)	12 25 10.0
I	25 21.0
EL	26 07.0
JAN 23	
ALQ E(P)	12 26 39.5
JAN 23	
GCA E(P)	12 27 02.0
I	27 11.0
EL	27 53.0
JAN 23	
CED IP	13 12 12.1
IS	12 21.7
JAN 23	
BMO E(P)	13 29 11.7
JAN 23	
ALQ E(P)	13 38 58.0
JAN 23	
BMO EP	13 56 54.0
EUR E(P)	13 57 07.0
JAN 23	
ALQ E(P)	14 23 27.0
E	23 55.0
JAN 23	
BMO EP	14 48 08.5

Date and Station	Phase (GCT)
	h m s
JAN 23	
GCA E(P)	14 49 13.8
E	49 24.0
EL	50 06.5
JAN 23	
BMO EP	14 55 35.6
JAN 23	
CFD IP	14 57 22.5
IS	57 30.3
BCN E(P)	14 57 47.2
EL	58 17.5
JAN 23	
EUR EP	14 58 31.1
JAN 23	
H-15 04 07.1	
28.0S 176.6W	
h ABOUT 33KM	
TUC EP	15 16 51.1
EUR E(P)	15 16 55.2
BMO EP	15 17 07.6
ALQ EP	15 17 11.0
BOZ E(P)	15 17 23.5
COL EP	15 17 27.9
JAN 23	
BMO EP	15 26 16.8
JAN 23	
BOZ EP	15 45 25.1
JAN 23	
COL IP	16 08 17.9
JAN 23	
GCA E(P)	16 41 10.0
E	41 20.5
EL	42 01.0
JAN 23	
BMO E(P)	17 21 06.0
JAN 23	
BMO F(P)	18 21 23.3
JAN 23	
BMO F(P)	18 23 33.7
JAN 23	
BMO F(P)	18 24 17.2
JAN 23	
ALQ F(P)	18 33 34.0
JAN 23	
ALQ F(P)	18 59 06.0
GCA F(P)	18 59 26.3
E	59 36.5
IL	19 00 19.0
JAN 23	
BMO E(P)	19 05 24.2

Date and Station	Phase (GCT)
	h m s
JAN 23	
BMO EP	19 05 30.7
JAN 23	
BMO E(P)	19 06 16.8
JAN 23	
BMO EP	19 25 24.2
JAN 23	
BMO E(P)	19 28 36.4
JAN 23	
H-19 43 19.7	
36.9N 107.1W	
h ABOUT 5KM	
ALQ IP	19 43 54.8
I	43 57.0
IS	44 19.9
GCA E(P)	19 44 17.0
E	44 26.0
IL	45 10.5
FGU E(P)	19 44 27.5
I	44 39.9
IL	45 33.4
BCN EP	19 44 56.2
E	45 15.5
EL	46 38.5
EUR EP	19 45 11.8
I	45 37.2
EL	47 10.9
BMO F(P)	19 46 00.0
JAN 23	
BMO F(P)	19 56 22.7
JAN 23	
BMO F(P)	19 57 53.0
JAN 23	
BMO EP	19 59 44.4
JAN 23	
BMO E(P)	20 04 46.7
JAN 23	
BMO F(P)	20 15 24.0
JAN 23	
BMO F(P)	20 18 36.1
JAN 23	
BMO EP	20 22 56.5
JAN 23	
H-20 42 18.5	
36.9N 107.2W	
h ABOUT 5KM	
ALQ F(P)	20 42 53.0
F	43 20.0
GCA F(P)	20 43 14.5
FL	44 04.5
EUR F(P)	20 44 09.0
BMO F(P)	20 45 17.0

Date and Station	Phase (GCT)
	h m s
JAN 23	
EUR IP	20 44 42.0
BMO E(P)	20 44 46.2
JAN 23	
BMO EP	21 01 30.8
JAN 23	
H-21 01 46.0	
07.3S 128.2E	
h ABOUT 126KM	
BMO EP'	21 20 07.6
EUR EP'	21 20 12.6
JAN 23	
EUR IP	21 07 10.6
JAN 23	
BMO E(P)	21 09 42.3
JAN 23	
BMO E(P)	21 14 55.2
JAN 23	
BMO E(P)	21 17 00.1
JAN 23	
BMO E(P)	21 48 20.9
JAN 23	
BMO E(P)	22 02 05.0
JAN 23	
BCN E(P)	22 09 11.0
JAN 23	
BOZ EP	22 17 48.0
I	18 11.0
JAN 23	
SLC IP	2 30 31.4
EUR EP	22 31 14.2
ALQ EP	22 31 21.2
JAN 23	
BMO EP	22 32 07.5
JAN 23	
H-22 45 12.8	
36.9N 107.2W	
h ABOUT 5KM	
ALQ E(P)	22 45 47.0
E	46 14.0
JAN 23	
BCN E(P)	22 48 30.0
JAN 23	
H-23 09 17.0	
36.0N 140.6E	
h ABOUT 59KM	
BRW EP	23 17 50.6
COL EP	23 18 11.0
BMO EP	23 20 43.4

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	23 20 59.0
EUR IP	23 21 05.9
BCN EP	23 21 25.9
JAN 23	
H-23 48 08.1	
36.9N 107.0W	
h ABOUT 5KM	
ALQ IP	23 48 45.0
I	48 46.7
GCA IP	23 49 07.0
I	49 16.0
ISG	49 55.0
FGU IP	23 49 18.0
I	49 30.5
IL	50 23.0
TUC EP	23 49 32.8
E	50 55.5
BCN IP	23 49 46.5
I	50 06.5
IL	51 28.5
EUR EP	23 50 01.0
I	50 27.1
EL	52 02.5
CFD E(P)	23 50 24.7
IL	52 45.2
BOZ EP	23 50 25.5
BMO EP	23 50 51.5
JAN 24	
ALQ E(P)	00 02 16.0
JAN 24	
BMO EP	00 13 46.1
EUR IP	00 13 56.2
TUC E(P)	00 15 35.0
JAN 24	
BMO EP	00 16 27.7
JAN 24	
EUR EP	00 20 16.0
JAN 24	
BMO F(P)	00 25 42.9
COL IP	00 27 32.1
JAN 24	
BMO EP	01 02 51.1
JAN 24	
BMO F(P)	01 30 27.3
JAN 24	
H-01 31 28.7	
36.9N 107.2W	
h ABOUT 5KM	
ALQ F(P)	01 32 03.5

Date and Station	Phase (GCT)
	h m s
GCA E(P)	01 32 24.1
E	32 34.5
IL	33 18.0
JAN 24	
BCN E(P)	01 35 55.0
JAN 24	
BMO E(P)	01 54 32.1
JAN 24	
BMO EP	02 08 41.8
JAN 24	
H-02 15 29.4	
32.6N 067.6E	
h ABOUT 52KM	
COL EP	02 27 29.5
JAN 24	
BMO EP	02 15 43.6
JAN 24	
BMO EP	02 19 44.7
JAN 24	
BMO EP	02 20 46.1
UKI E(P)	02 22 33.0
JAN 24	
COL EP	02 23 27.0
BMO EP	02 23 09.7
FUR IP	02 23 43.6
BCN E(P)	02 23 48.5
FGU EP	02 24 46.5
TUC E(P)	02 25 20.0
JAN 24	
BCN EP	02 24 17.0
E	24 44.9
JAN 24	
COL EP	02 27 08.0
JAN 24	
BMO EP	02 27 05.0
FUR EP	02 27 19.5
JAN 24	
BMO EP	02 30 05.5
JAN 24	
UKI E(P)	02 33 22.0
BMO EP	02 33 51.6
E	34 19.0
FUR IP	02 34 33.8
TUC E(P)	02 36 08.9
ALQ E(P)	02 36 29.5
COL EP	02 38 00.0

Date and Station	Phase (GCT)
	h m s
JAN 24	
BCN EP	02 35 25.0
JAN 24	
BMO EP	02 38 12.1
FUR IP	02 38 23.2
BCN E(P)	02 38 55.0
E	39 16.0
JAN 24	
BMO E(P)	02 40 24.9
JAN 24	
BMO E(P)	02 45 23.2
JAN 24	
BMO E(P)	02 46 01.4
JAN 24	
BMO EP	02 47 31.6
JAN 24	
BMO EP	02 50 27.2
JAN 24	
BMO EP	02 56 07.4
FUR E(P)	02 56 15.5
E	56 18.2
BCN E(P)	02 56 48.0
JAN 24	
BMO E(P)	03 00 59.5
JAN 24	
BMO EP	03 01 59.6
JAN 24	
BMO E(P)	03 05 40.5
JAN 24	
BMO EP	03 06 21.5
JAN 24	
BMO EP	03 08 33.9
JAN 24	
BMO EP	03 11 55.5
FUR EP	03 12 10.0
JAN 24	
BMO EP	03 12 00.2
JAN 24	
BMO EP	03 16 39.2
BCN E(P)	03 17 06.5
E	17 29.0
FUR EP	03 17 13.0
TUC E(P)	03 18 28.5
JAN 24	
BMO EP	03 26 40.7
TUC E(P)	03 28 30.0

Date and Station	Phase (GCT)
	h m s
JAN 24	
GUA EP	03 32 13.0
ES	32 25.5
JAN 24	
BMO EP	03 29 22.5
FUR E(P)	03 29 36.0
BCN E(P)	03 30 09.0
TUC E(P)	03 31 15.8
JAN 24	
H-03 36 53.5	
41.8N 126.3W	
h ABOUT 33KM	
BMO EP	03 38 39.7
JAN 24	
BMO E(P)	03 39 16.7
JAN 24	
BMO EP	03 44 43.9
JAN 24	
H-03 46 57.9	
12.3N 088.4W	
h ABOUT 46KM	
CSC E(P)	03 51 58.0
E	52 16.0
ALQ E(P)	03 52 46.5
TUC EP	03 52 57.0
FGU EP	03 53 40.6
COL EP	03 57 42.0
JAN 24	
BMO EP	03 52 18.4
FUR IP	03 52 32.1
JAN 24	
BMO EP	03 56 41.4
JAN 24	
BMO EP	03 57 42.8
JAN 24	
BCN EP	04 05 15.5
JAN 24	
H-04 06 36.5	
41.4N 127.2W	
h ABOUT 33KM	
BMO EP	04 08 33.1
FUR IP	04 08 46.0
TUC E(P)	04 10 19.4
JAN 24	
BMO EP	04 14 25.3
JAN 24	
FUR IP	04 27 13.8

Date and Station	Phase (GCT)
	h m s
JAN 24	
H-04 37 25.5	
41.7N 126.9W	
h ABOUT 33KM	
FUR IP	04 39 31.5
BCN EP	04 40 02.5
JAN 24	
BMO EP	04 42 28.8
JAN 24	
BMO EP	05 06 14.3
FUR IP	05 07 30.7
JAN 24	
BMO EP	05 07 17.2
JAN 24	
BMO EP	05 14 04.9
FUR EP	05 14 11.0
JAN 24	
BMO EP	05 19 13.3
JAN 24	
H-05 23 01.1	
41.3N 128.0W	
h ABOUT 33KM	
BMO EP	05 25 05.5
FUR IP	05 25 16.6
BCN E(P)	05 25 56.0
TUC E(P)	05 26 57.0
JAN 24	
BMO EP	05 41 31.6
JAN 24	
H-05 59 49.6	
41.7N 126.5W	
h ABOUT 33KM	
BMO EP	06 01 37.6
FUR EP	06 01 51.2
BCN EP	06 02 25.2
TUC E(P)	06 03 29.0
ALQ E(P)	06 03 50.3
JAN 24	
H-06 07 23.7	
41.5N 127.5W	
h ABOUT 33KM	
BMO EP	06 09 22.0
FUR E(P)	06 09 35.5
JAN 24	
ALQ E(P)	06 28 06.0
BMO E(P)	06 28 14.2
FUR IP	06 29 41.8

Date and Station	Phase (GCT)
	h m s
JAN 24	
H-06 48 12.0	
41.6N 127.3W	
h ABOUT 33KM	
BMO EP	06 50 06.5
FUR IP	06 50 22.8
BCN E(P)	06 50 53.5
TUC E(P)	06 52 02.2
JAN 24	
BMO EP	07 08 31.9
JAN 24	
H-07 23 09.7	
29.9N 069.7E	
h ABOUT 26KM	
BRW EP	07 34 44.0
COL IP	07 35 24.1
BMO E(P)	07 38 17.5
E	41 34.6
TUC EP'	07 41 57.2
FGU EP'	07 42 10.2
JAN 24	
BMO EP	07 35 31.0
JAN 24	
BMO E(P)	07 35 39.8
JAN 24	
COL E(P)	07 57 09.2
JAN 24	
H-08 27 09.7	
41.2N 124.5W	
h ABOUT 27KM	
FUR IP	08 28 52.8
BCN EP	08 29 25.0
TUC E(P)	08 30 28.8
JAN 24	
BMO E(P)	08 54 29.6
COL EP	08 59 40.0
JAN 24	
H-09 00 30.3	
37.0N 107.1W	
h ABOUT 5KM	
ALQ (P)	09 01 06.5
GCA E(P)	09 01 27.2
F	01 37.0
IL	02 21.5
JAN 24	
BMO EP	09 01 44.0
COL EP	09 07 22.0

Date and Station	Phase (GCT)
	h m s
JAN 24	
H-09 42 02.2	
06.9N 073.0W	
h ABOUT 155KM	
FUR EP	09 50 43.0
BMO E(P)	09 51 11.3
JAN 24	
H-09 42 14.9	
30.3N 069.8E	
h ABOUT 69KM	
COL EP	09 54 24.0
JAN 24	
ALQ E(P)	10 12 56.0
JAN 24	
COL IP	10 29 12.0
ALQ E(P)	10 32 47.0
JAN 24	
CED IP	10 39 23.4
I(S)	39 24.4
JAN 24	
H-10 48 02.4	
00.0N 123.1E	
h ABOUT 251KM	
COL EP	11 00 32.0
BMO EP'	11 06 08.8
FUR IP'	11 06 14.7
FGU IP'	11 06 22.5
TUC EP'	11 06 27.0
ALQ IP'	11 06 32.6
JAN 24	
COL EP	10 58 24.0
JAN 24	
ALQ E(P)	11 18 03.0
JAN 24	
BMO EP	11 23 34.3
JAN 24	
H-11 41 25.1	
62.6N 151.6W	
h ABOUT 41KM	
COL IP	11 42 07.9
EUR E(P)	11 47 49.3
JAN 24	
BMO EP	11 46 09.9
JAN 24	
FUR EP	11 50 34.6
COL EP	11 56 51.0
JAN 24	
BMO EP	11 58 12.1

Date and Station	Phase (GCT)
	h m s
JAN 24	
H-15 32 51.7	
29.9N 069.7E	
h ABOUT 26KM	
BRW EP	15 44 25.8
COL IP	15 45 05.4
BMO EP'	15 51 28.1
TUC EP'	15 51 39.2
JAN 24	
ALQ E(P)	15 44 14.0
BMO EP	15 45 50.7
JAN 24	
ALQ E(P)	15 46 42.0
JAN 24	
COL IP	16 12 45.9
BRW EP	16 14 09.3
BMO EP	16 14 42.3
JAN 24	
ALQ E(P)	16 42 06.0
JAN 24	
BMO E(P)	17 25 28.2
JAN 24	
ALQ E(P)	18 30 00.0
JAN 24	
ALQ E(P)	18 31 24.0
JAN 24	
BMO E(P)	18 39 38.6
JAN 24	
BMO E(P)	18 46 41.3
JAN 24	
BMO E(P)	18 54 17.0
JAN 24	
BMO E(P)	18 54 43.0
JAN 24	
BMO E(P)	18 59 42.4
JAN 24	
H-18 59 44.8	
41.6N 127.5W	
h ABOUT 33KM	
BMO EP	19 01 41.9
FUR E(P)	19 01 54.5
JAN 24	
BMO E(P)	19 07 15.2
JAN 24	
COL EP	19 23 23.0

Date and Station	Phase (GCT)
	h m s
JAN 24	
BMO EP	19 38 15.5
JAN 24	
CED EP	19 52 37.7
IL	52 58.8
JAN 24	
BMO E(P)	19 55 02.4
JAN 24	
ALQ (P)	19 57 52.2
GCA E(P)	19 58 16.2
I	58 25.2
EL	59 09.7
BMO E(P)	19 58 34.6
JAN 24	
ALQ IP	19 57 54.0
JAN 24	
FUR IP	20 00 08.2
JAN 24	
BMO E(P)	20 05 47.1
JAN 24	
BMO EP	20 20 52.0
JAN 24	
ALQ E(P)	20 45 34.0
JAN 24	
BMO EP	20 48 59.8
JAN 24	
COL IP	21 00 09.2
JAN 24	
COL EP	21 01 16.0
JAN 24	
H-21 07 39.8	
23.5S 064.2W	
h ABOUT 15KM	
ALQ IP	21 18 56.4
TUC EP	21 19 00.1
F	19 09.0
BCN EP	21 19 30.0
CED EP	21 19 32.2
FUR IP	21 19 46.3
BMO IP	21 20 09.0
JAN 24	
H-21 21 58.0	
41.7N 126.9W	
h ABOUT 33KM	
BMO IP	21 23 50.0
EUR IP	21 24 04.0
BCN EP	21 24 38.5
TUC E(P)	21 25 43.0

Date and Station	Phase	Phase (GCT) h m s
JAN 24		
ALQ	E(P)	21 29 10.0
JAN 24		
BMO	EP	21 39 00.4
JAN 24		
H-21 45 35.3		
7.0S 125.0E		
h ABOUT 485KM		
BRW	EP	21 57 55.9
BMO	EP'	22 03 13.9
TUC	EP'	22 03 36.8
JAN 24		
H-22 06 50.0		
36.9N 107.1W		
h ABOUT 5KM		
ALQ	IP	22 07 24.8
	I	07 54.0
GCA	E(P)	22 07 49.0
	I	07 58.7
	I	08 36.6
	IL	08 42.1
BCN	E(P)	22 08 34.6
	E	08 48.0
	EL	09 09.0
JAN 24		
H-22 10 01.9		
51.7N 176.3W		
h ABOUT 54KM		
COL	EP	22 14 29.0
BMO	E(P)	22 17 14.4
EUR	IP	22 17 56.0
JAN 24		
TUC	E(P)	22 18 39.4
JAN 24		
ALQ	IP	22 30 40.0
JAN 24		
BMO	E(P)	22 44 56.8
JAN 24		
EUR	IP	22 54 18.8
JAN 24		
BMO	E(P)	23 00 33.9
JAN 24		
EUR	EP	23 13 19.5
JAN 24		
EUR	IP	23 32 54.1
JAN 24		
BMO	EP	23 40 59.6
JAN 24		
H-23 47 12.7		
.4S 127.5E		
h ABOUT 178KM		
BRW	EP	23 59 33.1
COL	EP	23 59 43.0
JAN 25		
BMO	E(P)	00 06 20.0
JAN 25		
BCN	EP	00 18 14.0
	I	18 16.7
	IL	18 36.5
EUR	IP	00 18 49.0
JAN 25		
COL	IP	00 19 39.1
JAN 25		
COL	EP	00 28 09.0
JAN 25		
BMO	E(P)	01 15 06.6
JAN 25		
ALQ	E(P)	02 38 54.0
JAN 25		
ALQ	E(P)	03 00 16.0
JAN 25		
ALQ	(P)	03 00 16.0
JAN 25		
H-03 26 58.0		
41.6N 127.1W		
h ABOUT 33KM		
BMO	EP	03 28 51.3
EUR	EP	03 29 05.2
TUC	E(P)	03 30 43.3
BRW	E(P)	03 33 33.6
JAN 25		
ALQ	E(P)	03 45 32.0
BMO	EP	03 48 09.4
JAN 25		
EUR	E(P)	03 48 24.5
JAN 25		
BMO	EP	03 55 08.1
JAN 25		
EUR	IP	04 13 10.1
JAN 25		
BRW	EP	04 23 24.3
BMO	E(P)	04 29 10.6
ALQ	EP	04 29 34.8
JAN 25		
ALQ	E(P)	05 11 50.0
JAN 25		
H-05 50 58.1		
41.7N 126.2W		
h ABOUT 33KM		
BMO	EP	05 52 43.0
EUR	I(P)	05 53 03.0
JAN 25		
COL	IP	05 54 02.6
JAN 25		
COL	EP	05 55 09.0
JAN 25		
COL	IP	05 58 19.0
BRW	IP	05 59 55.2
BMO	E(P)	06 02 26.9
JAN 25		
EUR	EP	06 12 03.8
JAN 25		
BMO	E(P)	07 32 45.4
JAN 25		
BMO	E(P)	07 47 32.1
JAN 25		
H-07 50 54.1		
36.8N 107.3W		
h ABOUT 5KM		
ALQ	IP	07 51 29.4
GCA	E(P)	07 51 53.3
	I	52 02.8
	IL	52 47.5
TUC	E(P)	07 52 14.6
JAN 25		
EUR	EP	07 54 46.0
JAN 25		
ALQ	E(P)	08 02 48.5
JAN 25		
COL	IP	08 22 59.3
JAN 25		
BMO	E(P)	08 44 11.4
JAN 25		
H-08 46 25.4		
36.2S 097.2W		
h ABOUT 33KM		
EUR	E(P)	08 58 18.2
JAN 25		
BMO	E(P)	08 57 07.6
JAN 25		
BMO	E(P)	09 02 40.8
ALQ	E(P)	09 02 54.5
TUC	E(P)	09 03 03.7
JAN 25		
ALQ	(P)	09 42 30.2
JAN 25		
ALQ	E(P)	09 42 32.0
JAN 25		
BMO	E(P)	09 47 52.8
JAN 25		
COL	EP	09 55 21.0
JAN 25		
H-10 38 05.0		
36.8N 107.1W		
h ABOUT 5KM		
ALQ	IP	10 38 39.8
	I	39 09.6
GCA	EP	10 39 04.6
	I	39 13.6
	I(S)	39 51.6
	IL	39 58.6
FGU	EP	10 39 13.0
	I	39 27.5
	IL	40 18.2
TUC	E(P)	10 39 28.0
	E	39 47.4
BCN	E(P)	10 39 51.5
	I	40 03.5
	EL	41 24.0
EUR	EP	10 39 57.0
	EL	42 01.1
JAN 25		
ALQ	IP	11 21 27.6
JAN 25		
COL	EP	12 00 32.4
JAN 25		
BRW	E(P)	12 02 56.5
JAN 25		
BMO	EP	12 47 42.3
JAN 25		
BMO	E(P)	13 59 23.9
JAN 25		
BMO	E(P)	14 41 59.0
JAN 25		
GCA	EP	15 07 39.5
	I	07 47.0
	I	08 26.0
	IL	08 31.0
TUC	E(P)	15 08 18.0
JAN 25		
EUR	E(P)	15 08 57.0
JAN 25		
H-15 32 48.5		
36.8N 107.1W		
h ABOUT 5KM		
ALQ	IP	15 33 22.5
	I(S)	33 49.0
GCA	EP	15 33 47.0
	I	33 56.7
	IL	34 39.8

Date and Station	Phase (GCT)
	h m s
TUC E(P)	15 34 23.0
EUR E(P)	15 34 39.5
JAN 25	
EUR E(P)	15 35 08.5
JAN 25	
H-16 59 53.3	
8.9N 082.8W	
h ABOUT 65KM	
BHP IP	17 00 42.0
ALQ E(P)	17 06 32.0
EUR EP	17 07 44.8
BMO EP	17 08 15.4
COL EP	17 11 08.0
BRW IP	17 11 37.4
JAN 25	
EUR IP	17 01 14.5
JAN 25	
EUR E(P)	17 03 14.2
JAN 25	
CFD IP	17 35 02.0
IS	35 20.8
EUR EP	17 36 04.4
JAN 25	
GUA E(P)	17 39 50.5
JAN 25	
EUR E(P)	18 03 32.3
JAN 25	
H-18 05 54.8	
1.7N 117.9E	
h ABOUT 43KM	
BRW EP	18 18 37.5
EUR EP'	18 24 37.3
JAN 25	
EUR EP	18 20 16.0
JAN 25	
ALQ IP	18 40 24.5
JAN 25	
ALQ IP	18 48 40.8
JAN 25	
BMO E(P)	18 59 55.8
JAN 25	
BMO EP	19 13 08.4
JAN 25	
ALQ E(P)	19 50 52.5
JAN 25	
H-19 53 12.0	
37.2N 107.6W	
h ABOUT 5KM	

Date and Station	Phase (GCT)
	h m s
GCA E(P)	19 54 04.9
I	54 15.0
IL	54 59.4
TUC E(P)	19 54 37.5
JAN 25	
ALQ IP	19 53 15.5
I	53 43.2
JAN 25	
SIT EP	20 08 12.0
ES	08 18.0
JAN 25	
COL EP	20 34 20.0
JAN 25	
CFD IP	20 37 12.4
IS	37 20.0
JAN 25	
COL EP	20 43 34.0
JAN 25	
BCN E(P)	20 54 36.5
E	55 04.5
EL	56 27.5
JAN 25	
COL EP	21 04 19.0
BMO E(P)	21 04 46.2
JAN 25	
COL EP	21 41 56.0
BMO E(P)	21 46 05.0
JAN 25	
COL IP	21 44 36.8
JAN 25	
EUR IP	22 00 57.8
JAN 25	
ALQ IP	22 24 28.0
BMO E(P)	22 24 34.3
JAN 25	
H-22 53 48.5	
20.8S 069.6W	
h ABOUT 111KM	
BMO EP	23 05 40.3
JAN 25	
EUR E(P)	23 03 43.0
JAN 25	
EUR EP	23 42 52.7
E	43 54.5
JAN 25	
ALQ IP	23 56 02.6
I	56 07.0
JAN 26	
BHP IP	00 03 12.0

Date and Station	Phase (GCT)
	h m s
SJG IP	00 06 33.5
BMO EP	00 10 14.9
JAN 26	
ALQ IP	00 26 07.6
I	26 35.6
GCA E(P)	00 26 30.9
I	26 39.7
EL	27 23.9
JAN 26	
BMO EP	00 52 50.3
JAN 26	
H-01 00 14.6	
59.5S 026.3W	
h ABOUT 74KM	
SJG EP	01 12 36.4
BMO EP'	01 19 12.0
HHM EP'	01 19 13.8
COL EP'	01 19 50.0
BRW EP'	01 19 57.3
JAN 26	
BRW EP	01 05 25.8
BMO EP	01 08 12.0
EUR IP	01 08 44.0
JAN 26	
EUR IP	01 19 06.8
BRW E(P)	01 23 24.3
JAN 26	
TUC EP	01 22 16.7
FGU EP	01 22 28.0
JAN 26	
BRW EP	01 29 39.7
JAN 26	
H-01 22 25.3	
47.9N 145.4E	
h ABOUT 474KM	
COL IP	01 29 06.3
BOZ EP	01 32 19.5
EUR IP	01 32 31.4
JAN 26	
BMO EP	02 02 57.1
JAN 26	
BOZ IP	02 13 23.2
JAN 26	
EUR IP	03 13 45.0
JAN 26	
COL EP	03 46 19.0

Date and Station	Phase (GCT)
	h m s
JAN 26	
COL EP	04 00 15.0
JAN 26	
COL EP	04 05 38.0
JAN 26	
FGU EP	04 42 17.5
JAN 26	
H-04 45 08.3	
16.3N 095.4W	
h ABOUT 31KM	
ALQ E(P)	04 49 51.0
TUC E(P)	04 49 52.4
EUR E(P)	04 51 17.7
BMO E(P)	04 51 58.0
JAN 26	
BRW EP	05 17 31.0
JAN 26	
TUC E(P)	05 47 50.8
JAN 26	
H-05 49 05.6	
48.9S 111.1W	
h ABOUT 33KM	
TUC E(P)	06 01 18.0
ALQ E(P)	06 01 31.0
EUR IP	06 01 54.0
BMO EP	06 02 18.3
JAN 26	
COL EP	06 14 32.0
EUR EP	06 18 10.7
JAN 26	
ALQ IP	06 44 59.4
JAN 26	
SJG EP	07 09 06.0
ALQ EP	07 12 56.0
BMO EP	07 14 25.6
JAN 26	
BMO EP	08 40 50.5
JAN 26	
TUC E(P)	08 54 30.8
JAN 26	
TUC E(P)	09 01 35.0
E(L)	02 25.4
JAN 26	
TUC E(P)	09 09 03.0
JAN 26	
H-09 28 47.0	
31.3N 114.3W	
h ABOUT 33KM	

Date and Station	Phase	(GCT)
		h m s
TUC	EP	09 29 36.3
	EL	30 27.5
BCN	EP	09 29 56.6
	EL	31 14.5
GCA	E(P)	09 30 17.3
	IL	31 56.3
EUR	EP	09 30 52.2
	EL	33 07.5
JAN 26		
ALQ	EP	09 31 07.4
	I	32 50.0
JAN 26		
TUC	E(P)	10 14 31.4
JAN 26		
H-10 31 45.7		
27.8N 139.8E		
h ABOUT 498KM		
COL	EP	10 40 48.0
BMO	EP	10 43 00.1
EUR	IP	10 43 18.0
ALQ	EP	10 44 01.0
JAN 26		
ALQ	E(P)	11 11 23.0
JAN 26		
H-11 18 12.0		
20.1N 121.5E		
h ABOUT 13KM		
BRW	EP	11 29 17.5
COL	EP	11 29 40.0
JAN 26		
ALQ	IP	11 59 28.0
	I	59 53.0
GCA	E(P)	11 59 50.8
	E	59 59.7
	EL	12 00 42.8
TUC	E(P)	12 00 33.5
JAN 26		
EUR	EP	12 26 38.6
JAN 26		
COL	EP	12 48 43.0
H-13 04 15.7		
15.4S 174.8W		
h ABOUT 249KM		
BMO	E(P)	13 15 55.5
COL	IP	13 16 10.8
JAN 26		
H-13 30 28.0		
39.0N 021.4E		
h ABOUT 48KM		
COL	EP	13 42 13.5
BMO	EP	13 43 17.4
JAN 26		
COL	IP	14 49 31.0
JAN 26		
BCN	IP	15 12 55.0
	IS	12 58.6
JAN 26		
ALQ	IP	15 27 31.0
	I	27 37.5
JAN 26		
TUC	E(P)	15 28 51.7
JAN 26		
H-15 30 42.6		
14.3S 167.3E		
h ABOUT 208KM		
COL	EP	15 42 58.0
BMO	IP	15 43 19.3
JAN 26		
COL	EP	16 45 24.0
JAN 26		
BRW	E(P)	17 48 41.2
JAN 26		
BMO	EP	17 54 18.4
JAN 26		
BMO	E(P)	18 39 17.5
JAN 26		
BOZ	E(P)	18 50 44.0
JAN 26		
H-19 01 17.7		
18.9S 173.6W		
h ABOUT 33KM		
BMO	EP	19 13 32.0
COL	IP	19 13 57.6
JAN 26		
BMO	E(P)	19 07 59.2
JAN 26		
BMO	EP	19 08 35.8
JAN 26		
EUR	IP	19 32 35.5
JAN 26		
BOZ	IP	19 47 20.0
JAN 26		
BMO	E(P)	21 18 12.6
JAN 26		
ALQ	E(P)	21 31 49.5
JAN 26		
H-21 45 06.1		
33.1N 116.3W		
h ABOUT 16KM		
CED	IP	21 45 30.9
	IS	45 51.0
BCN	IP	21 45 55.6
	I	46 04.5
	IL	46 45.3
TUC	E(P)	21 46 18.3
EUR	FP	21 46 42.1
	E	47 06.0
	ES	48 24.5
JAN 26		
BOZ	IP	21 55 47.5
	IL	56 06.0
JAN 26		
EUR	IP	22 08 49.5
JAN 26		
BRW	E(P)	22 12 16.3
JAN 26		
COL	EP	22 34 10.0
JAN 26		
BMO	E(P)	22 48 31.4
JAN 26		
H-22 54 08.9		
28.4N 139.5E		
h ABOUT 421KM		
BMO	EP	23 05 29.2
EUR	EP	23 05 47.8
JAN 26		
COL	FP	23 04 34.0
BMO	EP	23 07 06.9
JAN 26		
EUR	IP	23 24 14.5
JAN 26		
EUR	IP	23 24 14.5
	E	24 34.3
JAN 27		
BMO	EP	00 44 15.6
JAN 27		
H-00 49 59.1		
37.0N 107.1W		
h ABOUT 5KM		
ALQ	IP	00 50 36.0
	IS	51 03.5
GCA	EP	00 50 57.7
	I	51 08.2
	FL	51 50.4
JAN 27		
TUC	E(P)	00 51 41.0
JAN 27		
EUR	IP	00 59 03.0
JAN 27		
BMO	EP	01 57 30.9
JAN 27		
BMO	EP	01 59 06.4
JAN 27		
H-02 01 35.3		
18.0S 178.4W		
h ABOUT 580KM		
KIP	IP	02 08 53.9
BCN	IP	02 12 50.1
	E	13 00.0
EUR	IP	02 12 54.5
	E	13 06.0
TUC	IP C	02 12 56.4
GCA	IP	02 13 04.5
BMO	EP	02 13 04.7
COL	IP	02 13 13.6
	IPP	15 22.3
ALQ	IP	02 13 17.2
HHM	EP	02 13 21.9
FGU	IP	02 13 22.0
SLD	E(P)	02 13 31.5
BRW	IP	02 13 35.0
JAN 27		
H-02 26 59.8		
3.1N 100.3W		
h ABOUT 33KM		
TUC	E(P)	02 33 14.4
BMO	E(P)	02 35 10.9
JAN 27		
BMO	E(P)	02 36 47.8
JAN 27		
BMO	EP	02 48 55.2
JAN 27		
BCN	IP	03 25 03.8
	IS	25 08.0
JAN 27		
BMO	E(P)	03 53 38.4
COL	IP	03 53 48.4
JAN 27		
H-03 59 02.2		
36.9N 107.1W		
h ABOUT 5KM		
ALQ	IP	03 59 38.0
	I	04 00 02.8
GCA	EP	04 00 00.4
	I	00 10.2
	IL	00 54.4
TUC	E(P)	04 00 30.0
JAN 27		
ALQ	IP	04 20 59.2

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	h m s
GCA E(P)	04 21 13.4
E	21 22.4
EL	22 14.4
TUC E(P)	04 22 05.0
BMO E(P)	04 22 23.7
JAN 27	
BMO EP	04 40 28.5
COL IP	04 44 17.4
JAN 27	
BMO E(P)	04 40 34.6
JAN 27	
BMO EP	04 44 05.4
JAN 27	
BMO EP	04 47 55.6
JAN 27	
BMO EP	04 51 54.2
JAN 27	
BMO E(P)	05 16 54.8
JAN 27	
COL EP	05 35 38.0
JAN 27	
BMO EP	05 54 36.4
JAN 27	
COL EP	05 59 11.0
JAN 27	
BRW E(P)	06 13 45.3
JAN 27	
H-06 20 57.0	
57.7N 152.0W	
h ABOUT 33KM	
COL EP	06 22 46.0
BRW E(P)	06 24 20.0
BMO EP	06 26 19.8
JAN 27	
SJG E(P)	06 43 35.0
EL	44 17.5
JAN 27	
H-07 48 28.7	
36.9N 106.9W	
h ABOUT 5KM	
ALQ IP	07 49 04.6
I(S)	49 22.5
GCA EP	07 49 28.6
I	49 37.6
I	50 15.2
EL	50 22.6
FGU E(P)	07 49 39.5
F	49 51.0
EL	50 43.0
TUC E(P)	07 50 06.7

Date and Station	Phase (GCT)
	h m s
JAN 27	
EUR IP	07 50 46.0
JAN 27	
H-09 29 00.6	
36.9N 107.2W	
h ABOUT 5KM	
ALQ IP	09 29 35.6
IL	30 07.5
GCA EP	09 29 59.3
I	30 07.7
IL	30 52.2
JAN 27	
GCA E(P)	09 30 31.7
I	30 40.2
IL	31 24.7
TUC E(P)	09 30 41.5
FGU E(P)	09 30 43.0
F	30 55.0
EL	31 48.0
JAN 27	
EUR EP	09 31 48.0
JAN 27	
GCA E(P)	09 32 12.7
IL	33 07.2
JAN 27	
ALQ IP	09 51 52.8
JAN 27	
BMO E(P)	10 05 40.5
JAN 27	
GUA EP	10 14 06.5
ES	14 44.0
JAN 27	
H-10 19 56.0	
53.7N 163.7W	
h ABOUT 33KM	
COL EP	10 23 09.0
BRW EP	10 24 05.1
BMO I(P)	10 26 06.8
JAN 27	
EUR IP	10 24 00.0
BMO EP	10 24 02.8
ALQ E(P)	10 24 09.5
BCN E(P)	10 24 58.0
COL EP	10 26 26.0
JAN 27	
EUR IP	10 26 18.0
BMO EP	10 26 38.0
JAN 27	
BMO E(P)	10 30 16.4
COL EP	10 33 39.0

Date and Station	Phase (GCT)
	h m s
JAN 27	
BMO E(P)	10 35 09.1
JAN 27	
BMO E(P)	10 49 58.2
JAN 27	
UKI EP	10 55 02.7
BMO EP	10 56 42.7
JAN 27	
BMO E(P)	11 13 22.9
JAN 27	
H-12 00 31.8	
39.8N 140.9E	
h ABOUT 109KM	
BRW EP	12 08 30.3
I	08 39.3
COL E(P)	12 08 55.6
BMO E(P)	12 11 37.1
EUR IP	12 12 02.8
JAN 27	
ALQ EP	12 13 13.0
JAN 27	
COL EP	12 24 33.0
JAN 27	
ALQ E(P)	12 47 24.0
JAN 27	
COL EP	13 24 21.0
JAN 27	
BMO E(P)	14 23 05.6
JAN 27	
COL EP	14 41 18.0
JAN 27	
BRW EP	15 03 59.8
JAN 27	
ALQ IP	16 01 36.8
JAN 27	
EUR EP	18 31 39.5
JAN 27	
BMO E(P)	18 33 55.2
JAN 27	
BCN IP	19 07 26.1
IS	07 29.5
JAN 27	
ALQ IP	19 22 46.6
BCN EP	19 23 31.0
EUR E(P)	19 24 03.0
BMO EP	19 24 46.2

Date and Station	Phase (GCT)
	h m s
JAN 27	
SJG EP	19 26 53.5
E	27 17.3
E	27 32.6
JAN 27	
BMO EP	19 31 33.5
JAN 27	
H-19 39 06.0	
51.3N 178.2E	
h ABOUT 42KM	
COL IP	19 43 59.3
BRW IP	19 44 09.0
I	44 24.1
E	45 23.5
BMO EP	19 46 57.2
HHM EP	19 46 57.5
SLD E(P)	19 47 09.2
BUT EP	19 47 13.8
EUR IP	19 47 29.1
SLC EP	19 47 42.0
BCN EP	19 47 51.0
FGU EP	19 47 53.7
GCA EP	19 48 01.8
TUC E(P)	19 48 26.1
ALQ IP	19 48 34.6
SJG EP	19 52 08.0
JAN 27	
BMO E(P)	20 45 07.8
JAN 27	
TUC E(P)	20 57 00.0
JAN 27	
BMO E(P)	22 03 33.8
JAN 27	
BMO EP	22 09 38.4
JAN 27	
BCN EP	22 12 17.5
EL	12 43.3
JAN 27	
EUR IP	22 33 48.7
JAN 27	
ALQ IP	22 36 44.5
JAN 27	
BMO E(P)	23 39 12.8
EUR IP	23 39 47.5
JAN 27	
H-23 45 49.6	
13.8S 167.3E	
h ABOUT 206KM	

Date and Station	Phase (GCT) h m s
EUR I(P)	23 57 22.8
COL EP	23 58 04.0
BMO EP	23 58 24.9
TUC E(P)	23 58 30.0
JAN 27	
BMO EP	23 53 32.5
COL EP	23 58 52.0
JAN 28	
BMO EP	00 15 58.3
JAN 28	
EUR EP	00 3 6.0
JAN 28	
BMO EP	00 25 11.1
JAN 28	
BMO EP	00 52 55.2
JAN 28	
COL EP	01 11 59.1
JAN 28	
KIP E(P)	01 24 49.5
.E	28 05.0
JAN 28	
SLD EP	01 50 10.0
I	50 14.7
I(S)	50 29.3
IL	50 32.5
EUR E(P)	01 51 17.0
E(S)	52 26.5
JAN 28	
SLD EP	01 50 10.0
JAN 28	
ALQ IP	03 07 06.5
JAN 28	
BRW EP	03 08 37.0
E	09 26.9
JAN 28	
BRW EP	03 50 05.1
JAN 28	
COL EP	04 13 13.0
JAN 28	
H-04 36 46.1	
17.6S 177.0E	
h ABOUT 556KM	
GUA EP	04 44 07.0
ES	50 02.0
KIP IP	04 44 19.7
SLD EP	04 47 57.7
CED EP	04 48 04.7
BCN IP C	04 48 18.0
IPCP	48 31.9
E▸P	50 22.0
EUR IP C	04 48 21.5
I▸P	50 21.9
TUC EP	04 48 25.1
E▸P	50 27.4
COL IP	04 48 29.2
I▸P	50 30.2
BMO EP	04 48 29.4
E▸P	50 29.0
GCA EP	04 48 32.4
E▸P	50 32.2
SLC IP	04 48 38.0
E▸P	50 39.8
HHM EP	04 48 44.0
ALQ IP	04 48 45.6
I▸P	50 48.0
BOZ EP	04 48 47.5
E▸P	50 49.5
EPP	52 27.2
EPKKP	05 07 04.0
FGU EP	04 48 48.0
E▸P	50 51.0
BRW EP	04 48 48.7
E	51 09.4
RCD E(P)	04 49 12.0
SJG EP'	04 54 35.5
E	57 21.0
JAN 28	
COL EP	04 58 16.0
JAN 28	
COL E(P)	04 59 20.6
JAN 28	
BMO EP	05 06 24.0
JAN 28	
BMO E(P)	05 14 23.6
JAN 28	
H-05 32 20.7	
36.9N 107.2W	
h ABOUT 5KM	
ALQ IP	05 32 56.0
IS	33 21.0
GCA E(P)	05 33 17.8
I	33 28.3
IL	34 12.3
JAN 28	
H-05 42 16.3	
17.1S 168.4E	
h ABOUT 23KM	
GUA EP	05 49 36.0
ES	55 24.0
HON E(P)	05 51 06.4
ES	58 28.0
EL	06 01 50.4
SLD E(P)	05 54 52.0
CED EP	05 55 04.2
COL IP	05 55 04.9
BCN EP	05 55 14.0
EPP	59 59.0
EUR EP C	05 55 15.8
E	56 21.6
EPP	58 58.5
EPKKP	06 13 34.5
BMO EP	05 55 19.5
BRW EP	05 55 21.0
E	55 32.8
EPP	59 00.0
TUC E(P)	05 55 22.4
ESKS	06 06 08.0
GCA EP	05 55 30.8
BOZ E(P)	05 55 38.0
EPP	59 30.0
FGU EP	05 55 42.0
ALQ IP	05 55 42.5
SJG EP'	06 01 23.0
E	16 38.8
E	20 40.0
EL	35 23.0
JAN 28	
ALQ EP	05 43 23.0
JAN 28	
BHP EP	05 59 56.0
JAN 28	
COL EP	06 05 51.0
JAN 28	
BMO E(P)	06 12 42.5
JAN 28	
BMO E(P)	06 13 27.7
JAN 28	
H-06 52 42.7	
17.1S 168.7E	
h ABOUT 5KM	
COL IP	07 05 33.9
FUR IP	07 05 44.1
BMO EP	07 05 49.4
JAN 28	
H-06 55 30.6	
36.8N 107.1W	
h ABOUT 5KM	
ALQ IP	06 56 04.8
I	56 33.8
GCA E(P)	06 56 28.3
EL	57 22.3
JAN 28	
CED IP	07 23 31.2
IS	23 48.7
BCN E(P)	07 24 01.5
EL	24 51.5
JAN 28	
H-07 59 58.3	
02.7N 095.3W	
h ABOUT 33KM	
BHP IP	08 03 54.0
IS	07 18.0
SJG EP	08 06 25.5
TUC EP	08 06 31.5
ALQ IP	08 06 39.0
CSC EP	08 06 40.0
GCA EP	08 07 10.8
CED EP	08 07 12.2
BCN EP	08 07 13.0
FGU EP	08 07 35.7
SLC IP	08 07 38.6
SLD E(P)	08 07 42.0
EUR EP D	08 07 42.2
F	08 02.4
RCD EP	08 07 47.5
BOZ EP	08 08 13.5
BUT EP	08 08 17.3
BMO EP	08 08 21.5
HHM EP	08 08 36.4
COL E(P)	08 11 20.0
BRW EP	08 11 58.1
JAN 28	
TUC EP	08 14 26.5
EUR E(P)	08 14 29.0
BMO EP	08 14 38.3
COL IP	08 14 54.7
JAN 28	
COL EP	08 15 48.0
JAN 28	
H-08 52 05.0	
39.3N 073.1E	
h ABOUT 43KM	
BRW IP C	09 02 35.1
I	03 11.3
E(PP)	05 23.3
COL IP	09 03 22.1

Date and Station	Phase (GCT)
	h m s
HHM EP	09 05 14.0
BUT EP	09 05 25.2
BMO EP	09 05 28.0
BOZ E(P)	09 06 27.0
JAN 28	
BMO E(P)	09 09 11.7
JAN 28	
KIP IP	09 19 50.2
JAN 28	
COL EP	09 22 35.0
JAN 28	
H-09 27 34.4	
17.9S 178.5W	
h ABOUT 579KM	
KIP IP	09 34 51.8
SLD IP C	09 38 29.7
CED IP C	09 38 35.1
BCN IP C	09 38 49.2
IPCP	38 57.0
EPP	41 55.5
EUR IP C	09 38 53.9
I	39 04.7
E	39 27.0
EPP	42 08.5
TUC EP	09 38 55.8
BMO IP	09 39 03.7
GCA IP C	09 39 03.8
SLC IP	09 39 10.3
COL IP	09 39 12.6
ALQ IP	09 39 16.6
BUT EP	09 39 19.2
HHM EP	09 39 20.9
BOZ IP	09 39 22.0
EPP	42 54.5
BRW IP	09 39 33.0
RCD EP	09 39 44.0
JAN 28	
BMO EP	09 42 25.3
JAN 28	
COL EP	09 48 57.0
JAN 28	
BMO E(P)	09 57 17.0
JAN 28	
BMO E(P)	10 05 20.8

Date and Station	Phase (GCT)
	h m s
JAN 28	
H-10 15 06.4	
43.6N 127.2W	
h ABOUT 33KM	
BMO EP	10 16 50.7
SLD EP	10 17 02.7
EUR EP	10 17 24.6
HHM EP	10 17 33.4
BOZ EP	10 17 48.0
BCN EP	10 18 02.5
ALQ EP	10 19 16.0
COL EP	10 20 22.0
BRW IP	10 21 24.9
JAN 28	
ALQ IP	13 12 59.8
IS	13 06.0
JAN 28	
COL I(P)	14 00 19.6
JAN 28	
H-14 01 51.7	
12.8N 142.4E	
h ABOUT 89KM	
GUA EP	14 02 32.0
ES	03 01.0
BRW IP	14 12 48.5
BMO E(P)	14 15 34.3
JAN 28	
COL EP	14 50 09.0
JAN 28	
H-14 53 03.0	
36.9N 107.1W	
h ABOUT 5KM	
ALQ IP	14 53 37.4
IS	54 04.0
GCA E(P)	14 54 01.7
I	54 11.4
FL	57 50.2
JAN 28	
BMO EP	16 05 23.2
JAN 28	
RHP IP	17 00 42.0
JAN 28	
BMO E(P)	17 00 44.2
ALQ IP	17 04 10.2
JAN 28	
BMO E(P)	17 44 23.4

Date and Station	Phase (GCT)
	h m s
JAN 28	
H-18 00 09.1	
41.6N 118.2W	
h ABOUT 20KM	
EUR IP C	18 00 51.2
EL	05 32.0
BMO EPN	18 01 00.5
SLD IP	18 01 27.8
IL	02 48.8
SLC E(P)	18 01 37.7
BCN EP	18 01 40.7
I	02 02.7
IL	03 21.5
BOZ EP	18 01 42.0
I	03 05.0
IL	03 19.5
FGU EP	18 01 48.1
IL	03 37.5
BUT E(P)	18 01 55.7
I	03 04.2
GCA E(P)	18 01 55.8
E	02 06.2
I	02 16.9
IL	03 43.3
CED EP	18 01 58.1
IL	04 04.1
HHM E(P)	18 01 58.8
IL	04 01.8
TUC E(P)	18 02 49.5
RCD EP	18 02 51.0
ALQ I(P)	18 03 01.6
COL EP	18 06 09.5
JAN 28	
UKI E(P)	18 00 59.2
JAN 28	
H-19 07 15.0	
51.9N 177.1W	
h ABOUT 55KM	
COL EP	19 11 44.0
BRW IP C	19 12 03.9
I	12 18.0
HHM EP	19 14 41.3
EPCP	16 47.3
BOZ IP	19 15 05.0
EUR IP C	19 15 12.9
I	15 21.7
IPP	17 01.0
CED EP	19 15 31.9
E(PP)	15 46.6
BCN EP	19 15 35.5

Date and Station	Phase (GCT)
	h m s
GCA E(P)	19 15 45.8
RCD IP D	19 15 50.5
TUC EP	19 16 12.3
FPP	16 22.2
ALQ IP	19 16 20.2
JAN 28	
BMO IP	19 14 00.9
JAN 28	
BMO EP	19 16 47.3
JAN 28	
BMO EP	19 19 13.8
JAN 28	
BMO EP	19 20 41.4
JAN 28	
EUR IP	19 23 44.0
JAN 28	
SLD E(P)	19 38 31.5
IL	39 07.8
JAN 28	
BMO EP	20 21 41.7
JAN 28	
BMO E(P)	20 24 23.2
JAN 28	
ALQ E(P)	20 35 53.5
JAN 28	
UKI E(P)	20 41 26.0
JAN 28	
BMO E(P)	21 10 37.4
JAN 28	
HHM E(P)	21 13 30.2
I	14 00.2
JAN 28	
H-21 25 22.4	
03.5S 081.3W	
h ABOUT 33KM	
EUR E(P)	21 34 41.7
E	34 47.8
BMO EP	21 35 12.9
COL E(P)	21 37 55.0
JAN 28	
BMO E(P)	21 35 50.3
JAN 28	
ALQ IP	21 57 43.6
I	58 18.6
EUR IP	21 58 05.8
JAN 28	
ALQ IP	22 13 20.6
JAN 28	
ALQ IP	22 33 57.0

Date and Station	Phase	(GCT) h m s
JAN 28		
CSC	EP	22 34 33.0
JAN 28		
H-22 38 13.7		
51.6N 157.0E		
h ABOUT 122KM		
BRW	IP	22 43 59.2
COL	IP	22 44 19.6
SIT	E(P)	22 45 26.0
KIP	IP	22 46 27.0
HHM	IP	22 47 25.9
BMO	EP	22 47 30.2
UKI	E(P)	22 47 34.0
BOZ	IP	22 47 48.0
	IPCP	49 03.0
CED	IP	22 47 51.5
	IpP	48 19.0
FUR	IP C	22 48 01.0
	IpP	48 26.0
	EPCP	49 43.9
	IPP	50 07.9
	E	52 10.6
SLC	IP	22 48 10.6
FGU	IP	22 48 18.6
BCN	IP C	22 48 22.1
	E(PCP)	49 37.7
	IPP	50 38.8
RCD	IP C	22 48 25.0
	IpP	48 49.0
GCA	IP	22 48 29.2
TUC	IP C	22 48 54.2
	E	49 21.0
JAN 28		
CED	IP	22 46 27.6
	IL	46 50.6
TUC	E(P)	22 47 02.0
	E(L)	48 13.7
BMO	EP	22 47 55.2
JAN 28		
BMO	E(P)	23 03 04.0
JAN 28		
ALQ	IP	23 20 20.6
BMO	EP	23 22 13.0
JAN 28		
BMO	E(P)	23 26 04.3
JAN 28		
H-23 47 30.3		
53.8N 163.1W		
h ABOUT 165KM		

Date and Station	Phase	(GCT) h m s
COL	EP	23 50 36.0
BMO	EP	23 53 31.0
EUR	IP D	23 54 06.5
	I	54 18.8
JAN 29		
H-00 10 44.5		
17.0S 168.3E		
h ABOUT 33KM		
COL	EP	00 23 31.0
BCN	EP	00 23 41.2
EUR	EP C	00 23 43.1
BMO	EP	00 23 47.5
JAN 29		
EUR	EP	00 12 34.2
	EL	13 22.0
JAN 29		
COL	EP	00 42 32.0
EUR	E(P)	00 45 47.5
JAN 29		
BMO	E(P)	01 02 59.6
JAN 29		
EUR	IP	01 05 21.3
JAN 29		
H-01 13 14.7		
17.0S 168.2E		
h ABOUT 33KM		
COL	E(P)	01 26 03.0
BMO	EP	01 26 19.6
JAN 29		
BMO	E(P)	01 15 29.2
JAN 29		
BMO	E(P)	01 32 57.0
JAN 29		
EUR	E(P)	01 48 40.0
JAN 29		
BMO	E(P)	01 51 00.4
JAN 29		
COL	E(P)	02 41 08.9
JAN 29		
H-02 37 03.7		
31.2S 177.7W		
h ABOUT 33KM		
EUR	E(P)	02 50 04.0
JAN 29		
BMO	E(P)	02 54 47.7

Date and Station	Phase	(GCT) h m s
JAN 29		
H-03 18 57.6		
05.6N 076.1W		
h ABOUT 85KM		
COL	E(P)	03 31 39.0
JAN 29		
H-03 19 23.0		
19.4S 175.5W		
h ABOUT 248KM		
BMO	EP	03 31 22.6
JAN 29		
BMO	E(P)	03 26 30.8
JAN 29		
BMO	E(P)	03 39 07.5
JAN 29		
BMO	E(P)	04 07 16.9
JAN 29		
BMO	EP	04 19 00.3
JAN 29		
BMO	E(P)	04 20 50.7
JAN 29		
BMO	EP	04 31 05.5
JAN 29		
BMO	EP	04 35 41.1
JAN 29		
BMO	E(P)	04 40 44.0
JAN 29		
BMO	EP	04 46 52.3
JAN 29		
BMO	EP	05 32 40.6
JAN 29		
H-06 24 22.7		
16.9S 168.4E		
h ABOUT 33KM		
COL	EP	06 37 10.0
EUR	IP	06 37 21.5
JAN 29		
H-07 19 19.3		
01.0N 119.2E		
h ABOUT 26KM		
BRW	IP	07 32 04.2
	I	32 21.4
JAN 29		
COL	EP	07 35 05.0
BMO	EP	07 39 10.5
JAN 29		
H-07 52 07.3		
45.5N 151.6E		
h ABOUT 33KM		
BRW	IP	07 59 02.6
COL	IP	07 59 22.2

Date and Station	Phase	(GCT) h m s
HHM	E(P)	08 02 14.7
BMO	EP	08 02 17.1
EUR	EP	08 02 44.6
	E	02 57.1
JAN 29		
BMO	E(P)	08 23 22.1
JAN 29		
COL	E(P)	09 26 24.7
JAN 29		
BMO	E(P)	10 06 41.4
JAN 29		
BMO	E(P)	10 17 10.6
JAN 29		
EUR	IP	11 08 44.5
JAN 29		
RCD	E(P)	11 13 10.0
	E	13 13.7
JAN 29		
GCA	EP	11 20 51.0
	I	21 01.5
	IL	21 45.0
JAN 29		
H-11 21 51.3		
37.0N 106.9W		
h ABOUT 5KM		
ALQ	IP	11 22 27.8
	I	22 53.5
FGU	EP	11 23 01.0
	I	23 13.0
	EL	24 10.0
TUC	E(P)	11 23 20.0
	EL	24 41.5
BCN	E(P)	11 23 43.0
	EL	25 12.0
EUR	EP	11 23 44.5
	E	24 19.2
JAN 29		
EUR	IP	11 25 32.0
GCA	E(P)	11 25 48.5
	E	25 57.5
	IL	26 41.0
ALQ	IP	11 27 25.6
JAN 29		
GCA	E(P)	11 34 17.5
	IL	35 09.5
JAN 29		
ALQ	IP	11 35 51.4
JAN 29		
BMO	EP	12 51 36.1
JAN 29		
COL	EP	13 07 24.0

Date and Station	Phase (GCT)
	h m s
JAN 29	
TUC E(P)	14 20 50.1
E(L)	21 45.9
JAN 29	
RCD EP C	14 33 48.0
E	33 54.0
JAN 29	
H-14 40 30.5	
16.6N 091.2W	
h ABOUT 33KM	
CSC EP	14 44 56.5
ALQ IP	14 45 32.5
TUC EP C	14 45 40.4
RCN EP	14 46 25.4
I	46 31.0
SLC EP	14 46 43.2
BOZ EP	14 47 15.0
BMO EP	14 47 26.9
HHM EP	14 47 39.6
COL IP	14 50 42.4
BRW E(P)	14 51 20.5
I	51 23.3
JAN 29	
BMO IP	14 49 54.2
JAN 29	
H-14 59 39.2	
52.7N 171.2E	
h ABOUT 33KM	
BRW IP	15 04 46.9
COL EP	15 04 52.0
BMO E(P)	15 08 06.7
JAN 29	
FUR IP	15 01 50.9
JAN 29	
BMO E(P)	15 22 10.0
BRW EP	15 25 15.0
JAN 29	
H-16 09 01.6	
41.6N 127.2W	
h ABOUT 33KM	
BMO EP	16 10 56.6
FUR EP	16 11 10.0
RCN EP	16 11 44.9
HHM E(P)	16 11 47.6
SLC E(P)	16 11 53.5
GCA E(P)	16 12 10.7

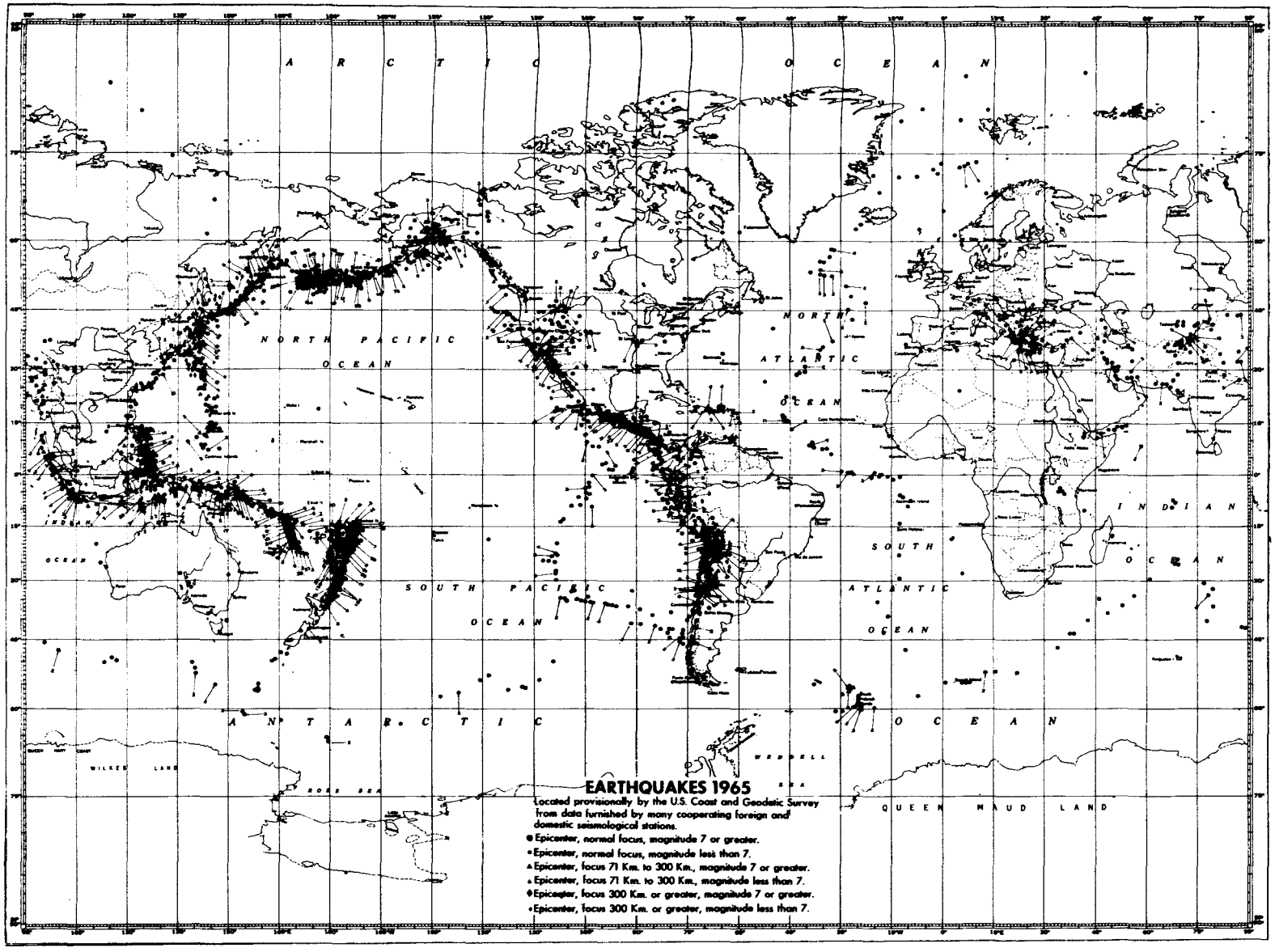
Date and Station	Phase (GCT)
	h m s
TUC E(P)	16 12 52.0
BRW EP C	16 15 37.5
JAN 29	
BMO EP	16 23 48.9
JAN 29	
BMO EP	16 25 50.4
JAN 29	
ALQ IP	16 51 49.8
COL EP	16 59 09.0
JAN 29	
BMO EP	16 58 58.8
JAN 29	
BMO E(P)	17 27 28.4
JAN 29	
BRW E(P)	17 43 13.7
BMO E(P)	17 48 02.6
E	49 15.9
JAN 29	
BRW EP	17 58 21.1
JAN 29	
BMO EP	18 22 56.5
JAN 29	
BMO E(P)	18 28 00.6
JAN 29	
H-18 38 48.0	
37.0N 106.9W	
h ABOUT 5KM	
ALQ IP	18 39 25.0
I	39 52.5
GCA EP	18 39 48.7
I	39 58.2
IL	40 40.2
TUC E(P)	18 40 22.3
JAN 29	
BMO E(P)	18 39 15.7
JAN 29	
BMO E(P)	19 14 46.2
JAN 29	
BMO EP	19 15 51.2
JAN 29	
H-19 25 05.8	
37.0N 106.9W	
h ABOUT 5KM	
ALQ IP	19 25 42.2
I	26 12.0
GCA E(P)	19 26 06.8
I	26 15.9
IL	26 59.2
JAN 29	
BMO E(P)	19 29 13.0

Date and Station	Phase (GCT)
	h m s
JAN 29	
BMO EP	19 38 01.1
JAN 29	
H-20 01 53.7	
36.8N 107.1W	
h ABOUT 5KM	
ALQ IP	20 02 28.2
JAN 29	
BMO EPN	20 27 12.6
JAN 29	
EUR IP	20 41 53.8
JAN 29	
ALQ EP	21 07 46.8
GCA EP	21 08 10.4
E	08 18.9
IL	09 03.4
JAN 29	
COL EP	21 10 54.0
JAN 29	
KIP IP	21 26 36.5
JAN 29	
BMO E(P)	21 28 26.5
JAN 29	
BRW E(P)	21 38 43.8
I	39 11.3
JAN 29	
BMO E(P)	21 48 30.6
COL IP	21 49 08.8
JAN 29	
BMO EP	22 02 10.3
JAN 29	
ALQ IP	22 26 58.4
JAN 29	
BUT E(P)	22 47 40.1
JAN 29	
TUC E(P)	22 54 28.1
JAN 29	
BRW EP	23 55 29.2
JAN 30	
RCD E(P)	01 03 11.0
JAN 30	
KIP EP	01 29 19.7
JAN 30	
KIP EP	01 43 21.4
JAN 30	
H-01 55 05.8	
51.5N 030.0W	
h ABOUT 33KM	
EGU EP	02 04 24.0
COL EP	02 04 31.9

Date and Station	Phase (GCT)
	h m s
BMO EP	02 04 38.9
JAN 30	
BMO EP	02 28 10.7
JAN 30	
GCA E(P)	02 30 52.2
I	31 00.7
EL	31 45.2
JAN 30	
H-02 39 53.2	
36.9N 107.2W	
h ABOUT 5KM	
ALQ IP	02 40 28.6
I	40 56.5
JAN 30	
COL EP	03 11 51.0
BMO E(P)	03 13 20.0
JAN 30	
H-03 17 43.0	
06.8N 073.0W	
h ABOUT 166KM	
SJG EP	03 20 42.4
ES	22 57.5
BMO EP	03 26 52.2
JAN 30	
BMO EP	05 33 02.7
JAN 30	
RCN IP	06 44 42.5
IS	44 59.2
JAN 30	
H-06 47 00.1	
38.8N 021.5E	
h ABOUT 36KM	
BRW EP	06 58 12.1
COL EP	06 58 48.0
BMO E(P)	06 59 58.0
JAN 30	
H-07 16 30.4	
16.5S 172.7W	
h ABOUT 107KM	
TUC EP	07 28 10.5
BMO EP	07 28 24.4
COL IP	07 28 46.3
JAN 30	
H-07 25 30.6	
73.8N 008.9E	
h ABOUT 33KM	
BMO EP	07 35 07.9
JAN 30	
RCN IP	09 13 49.7
IS	13 53.5

Date and Station	Phase	(GCT)
		h m s
JAN 30		
COL	EP	10 26 41.0
JAN 30		
BMO	EP	10 44 23.3
JAN 30		
H-11 05 02.2		
22.1S 170.0E		
h ABOUT 46KM		
COL	EP	11 18 08.0
JAN 30		
TUC	E(P)	11 16 54.0
JAN 30		
BMO	EP	12 55 57.2
JAN 30		
H-13 32 28.7		
17.0S 168.2E		
h ABOUT 24KM		
COL	IP	13 45 17.1
JAN 30		
EUR	EP	14 03 31.0
	F	04 34.0
JAN 30		
COL	EP	14 03 32.0
JAN 30		
COL	EP	15 29 28.0
JAN 30		
COL	EP	17 12 17.0
JAN 30		
COL	EP	17 17 04.0
JAN 30		
COL	EP	17 25 50.0
JAN 30		
COL	EP	18 12 15.0
JAN 30		
BMO	EP	18 25 22.4
JAN 30		
COL	EP	18 39 15.0
JAN 30		
BMO	EP	20 45 59.8
JAN 30		
EUR	IP	20 52 50.5
JAN 30		
EUR	IP	20 57 20.2
JAN 30		
EUR	IP	21 02 23.3
JAN 30		
COL	EP	21 10 30.0
JAN 30		
COL	EP	21 13 42.0
JAN 30		
COL	EP	21 14 17.0
JAN 30		
COL	EP	21 37 41.1
JAN 30		
TUC	E(P)	22 14 59.4
	EL	16 18.0
JAN 30		
COL	EP	22 18 47.0
JAN 30		
ALQ	(P)	22 26 53.5
JAN 30		
BMO	EP	23 45 32.9
JAN 30		
TUC	E(P)	23 54 22.2
EUR	EP	23 56 08.7
JAN 31		
BMO	E(P)	00 06 48.9
JAN 31		
BMO	E(P)	00 07 13.3
JAN 31		
H-00 45 40.3		
46.7N 152.8E		
h ABOUT 33KM		
BRW	IP	00 52 22.7
COL	EP	00 52 43.0
JAN 31		
COL	EP	02 11 54.0
BMO	EP	02 12 12.7
JAN 31		
COL	EP	02 18 05.0
JAN 31		
COL	EP	02 28 25.0
JAN 31		
H-02 35 05.4		
27.9N 099.6E		
h ABOUT 28KM		
COL	IP	02 46 39.2
JAN 31		
BMO	E(P)	02 51 29.5
JAN 31		
EUR	IP	02 58 28.2
JAN 31		
H-03 04 03.8		
41.8N 141.6E		
h ABOUT 59KM		
COL	EP	03 12 16.0
BMO	E(P)	03 15 03.5
JAN 31		
BMO	EP	03 07 09.6
JAN 31		
COL	EP	03 41 49.0
JAN 31		
EUR	IP	04 20 09.5
JAN 31		
H-04 53 50.3		
31.7N 141.6E		
h ABOUT 93KM		
COL	EP	05 03 04.4
JAN 31		
COL	EP	05 03 40.0
JAN 31		
COL	EP	05 16 11.0
JAN 31		
EUR	IP	06 19 26.2
JAN 31		
EUR	IP	06 23 17.1
JAN 31		
SJG	EP	06 36 44.0
	EL	37 48.0
JAN 31		
COL	EP	07 10 46.0
JAN 31		
H-07 16 28.5		
27.9N 111.0W		
h ABOUT 33KM		
TUC	EP	07 17 34.2
	EL	18 53.0
ALQ	E(P)	07 18 28.0
BCN	EP	07 18 34.2
	EL	21 12.0
JAN 31		
BMO	EP	07 21 07.7
JAN 31		
FGU	E(P)	07 23 14.0
JAN 31		
H-07 42 07.0		
52.3N 170.9E		
h ABOUT 33KM		
COL	EP	07 47 24.0
JAN 31		
COL	EP	07 43 48.0
JAN 31		
TUC	E(P)	07 57 00.6
JAN 31		
BCN	IP	08 51 50.1
	IS	51 53.9
JAN 31		
BCN	IP	08 56 37.8
	IS	56 41.7
JAN 31		
BCN	IP	08 59 26.2
	IS	59 30.0
JAN 31		
BCN	IP	09 38 56.7
	IS	39 00.5
JAN 31		
COL	EP	09 42 15.0
JAN 31		
GCA	EP	10 19 09.4
JAN 31		
GUA	IP	11 24 15.0
	ES	24 18.0
JAN 31		
COL	EP	12 08 42.0
TUC	E(P)	12 15 47.0
JAN 31		
H-12 31 26.7		
32.4N 048.8E		
h ABOUT 11KM		
COL	EP	12 43 49.0
JAN 31		
COL	EP	13 21 20.3
JAN 31		
H-13 54 27.2		
01.5S 078.0W		
h ABOUT 196KM		
ALQ	IP	14 02 25.8
	I*P	03 03.0
BCN	EP	14 03 08.5
GCA	E(P)	14 03 10.1
EUR	IP	14 03 31.0
BOZ	IP	14 03 44.0
	I*P	04 21.5
COL	EP	14 06 31.0
BRW	IP	14 06 55.6
JAN 31		
H-14 01 24.3		
24.9S 064.4W		
h ABOUT 35KM		
SJG	IP	14 09 17.7
ALQ	IP	14 12 43.4
	I	12 51.6
BCN	EP	14 13 14.0
	I	13 16.4
CFD	EP	14 13 17.8
FGU	EP	14 13 19.0
SLC	IP	14 13 25.3
EUR	IP	14 13 32.2
SLD	EP	14 13 40.8

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
BOZ EP	14 13 42.0	JAN 31					
I	13 51.0	TUC (P)	20 21 39.1				
BUT EP	14 13 46.5	ALQ IP	20 21 45.5				
HHM EP	14 13 59.0	JAN 31					
EPP	17 20.0	EUR IP	21 27 39.3				
COL EP'	14 20 08.0	JAN 31					
		EUR IP	21 47 40.1				
GUA EP'	14 21 14.0						
		JAN 31					
JAN 31		COL EP	21 50 09.0				
SJG IP D	14 07 17.5						
I	07 25.1	JAN 31					
E	19 04.0	ALQ IP	22 30 34.0				
JAN 31		JAN 31					
BCN IP D	14 17 22.5	H-23 03 24.2					
IS	17 26.3	51.5N 173.8E					
		h ABOUT 33KM					
JAN 31							
BCN IP D	15 30 40.8	COL E(P)	23 08 34.5				
IS	30 44.6						
JAN 31							
EUR IP	15 41 36.8	EUR IP D	23 12 08.6				
		E	13 07.0				
JAN 31							
H-15 43 52.3		BCN EP	23 12 31.0				
37.0N 106.9W							
h ABOUT 5KM		TUC E(P)	23 13 07.0				
ALQ IP	15 44 28.5	JAN 31					
IS	44 57.4	EUR IP	23 32 30.5				
GCA E(P)	15 44 52.2						
E	45 10.7						
EL	45 47.7						
JAN 31							
TUC E(P)	15 45 36.4						
JAN 31							
TUC E(P)	17 03 25.9						
JAN 31							
EUR E(P)	17 59 18.5						
JAN 31							
COL EP	18 21 53.0						
JAN 31							
HHM EP	18 27 17.5						
E	27 33.0						
JAN 31							
H-19 20 19.2							
51.6N 170.7W							
h ABOUT 33KM							
COL EP	19 24 25.0						
BRW IP D	19 24 59.4						
I	25 12.7						
BOZ IP	19 27 40.0						
EUR IP D	19 27 46.5						
IPCP	29 52.3						
BCN EP	19 28 10.5						
TUC E(P)	19 28 48.7						


ARCTIC OCEAN
NORTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
SOUTH PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
INDIAN OCEAN
ANTARCTIC OCEAN
WILKES LAND
ROSS SEA
WEDDELL SEA
QUEEN MAUD LAND
EARTHQUAKES 1965
Located provisionally by the U.S. Coast and Geodetic Survey from data furnished by many cooperating foreign and domestic seismological stations.
Epicenter, normal focus, magnitude 7 or greater.
Epicenter, normal focus, magnitude less than 7.
Epicenter, focus 71 Km. to 300 Km., magnitude 7 or greater.
Epicenter, focus 71 Km. to 300 Km., magnitude less than 7.
Epicenter, focus 300 Km. or greater, magnitude 7 or greater.
Epicenter, focus 300 Km. or greater, magnitude less than 7.