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July, 1964

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COAST & GEODETIC SURVEY

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CONTENTS

List of stations 1
Station constants 2
Provisional epicenters 6
Seismogram interpretations 18

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COAST AND GEODETIC SURVEY—WASHINGTON

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1964

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

Albuquerque, New Mexico (ALQ) WWNSS
**Balboa Heights, C. Z. (BHP) WWNSS
The Panama Canal Co.
*Boulder City, Nev. (BCN)
Bureau of Reclamation
*Bozeman, Mont. (BOZ) WWNSS
*Bozeman, Mont. (BZM)
Montana State College
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHK)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL) WWNSS
*Columbia, S. C. (CSC)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
*Flaming Gorge, Utah (FGU)
Bureau of Reclamation
*Glen Canyon, Ariz. (GCA)
Bureau of Reclamtion
Guam, M. I. (GUA) WWNSS
Honolulu, Hawaii (HON)
*Hungry Horse, Mont. (HHM)
Bureau of Reclamation
Kipapa, Hawaii (KIP) WWNSS
**Philadelphia, Pa. (PHI)
The Franklin Institute
**Rapid City, S. D. (RCD) WWNSS
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJP)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC) WWNSS
Ukiah, Calif. (UKI)
International Latitude Observatory
Washington, D. C. (WAS)

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

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

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

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

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

U. S. Department of Commerce
Coast and Geodetic Survey
Seismology Division
Washington Science Center
Rockville, Maryland 20852

STATION AND INSTRUMENTAL CONSTANTS (JULY 1964)

Station	Position	Instrument	Foundation and Elevation	To	T_g	T_s	V	Σ	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
H. J. Wirz	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 30	100		3,000	Critical	15mm/min	Beginning	Up
				N 30	100		3,000				N
				E 30	100		3,000				E
Balboa Heights, C. Z.	Long cos 9.99467	Std-SP	Basalt.	Z 1.0	0.75		12,500	17:1	60mm/min	Beginning	Up
T. C. Henter	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
Boulder City, Nev.	Log cos 9.90806	B, Paper	Fractured	Z 1.18	0.5	1.2	130,000	9:1	60mm/min	Beginning	Up
V. B. Uehling	Lat. 35°58'51" N	Z	Monzonite.								
In Charge	Long. 114°50'02" W	Mass 100 lb.	776 m.								
Bozeman, Mont.	Log cos 9.84437	Spg, N&E	Alluvium gla-	N 11.1	8.3		8,000	3:1	30mm/min	Beginning	N
A. J. M. Johnson	Lat. 45°40'01" N		cial drift	E 10.9	7.6		8,000	11:1			E
In Charge	Long. 111°02"43" W	W-L, Z	and lake de-	Z 1.1	1.7		24,000	Under	60mm/min		Up
			posit 500'					damped			
			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°36'00.0"N		gneiss	N 1.0	0.75		400,000				N
In Charge	Long. 111°38'00.0"W		1,575 m.	E 1.0	0.75		400,000				E
		Std-LP		Z 30	100		3,000	Critical	15mm/min	Beginning	Up
				N 30	100		3,000				N
				E 30	100		3,000				E
Butte, Mont.	Log cos 9.84167	W-A, N	Rhyolite 30 m.	N 8.02			316	50:1	15mm/min	Beginning	S
S. W. Nile	Lat. 46°00.8' N	Mass 2g	Thick resting								
In Charge	Long. 112°33.8' W	W-L, N&E	on granite.	N 8.0	3.8		12,000	Near crit.	30mm/min		N
			1,758 m.	E 8.0	3.9		12,000	Near crit.			W
		B, Paper, Z		Z 1.1	0.5		50,000	Near crit.	60mm/min		Up
		Mass 100 lb.									
Chicago, Ill.	Log cos 9.87251	McC-R, N&E	Limestone.	N 10			335	15:1	15mm/min	End	N
W. F. Schmidt	Lat. 41°47.3' N	Mass 2.5 kg.	180 m.	E 10			335	15:1			W
In Charge	Long. 87°36.0' W										

Station	Position	Instrument	Foundation and Elevation	T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Ip"
*College, Alas.	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°54'00.0"N		Schist.	N 1.0	0.75		100,000				N
In Charge	Long. 147°47'30.0"W		320 m.	E 1.0	0.75		100,000				E
		Std-LP		Z 30	100		1,500	Critical	15mm/min	Beginning	Up
				N 30	100		1,500				N
				E 30	100		1,500				E
	Log cos 9.62825	W-L, Film, Z	Granite	Z 1.19	0.45		40,000**	Near crit.	15mm/min	Beginning	Up
	Lat. 64°51.6' N	B, Film, N&E	schist.	N 1.36	0.45		50,000**	Near crit.			N
	Long. 147°50.2' W		159 m.	E 1.40	0.45		50,000	Near crit.			E
		W, N		N 9.5	12.0		1,000	Near crit.			N
1College Outpost	Log cos 9.62781	B, paper, Z	Weathered	Z 1.5	0.53		223,000	Near crit.	60mm/min	Beginning	Up
J. B. Townshend	Lat. 64°53'08" N		schist.								
In Charge	Long. 147°48'04" W		183 m.								
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
C. F. Mercer	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, Nev.	Log cos 9.87826	B, Paper, 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" W		2,178 m.								
Flaming Gorge, Utah	Log cos 9.87826	B, Film, Z,	Quartzite.	Z 1.06	0.58	1.03		8:1	15mm/min	Beginning	Up
J. Hanfelt	Lat. 40°55'36" N	N&E	1,982 m.	N 1.41	0.41	1.35		11:1			N
In Charge	Long. 109°23'10" W			E 1.48	0.46	1.35		8:1			E
Glen Canyon, Ariz.	Log cos 9.90250	B, Film, Z,	Navajo sand-	Z 1.10	0.37	1.08	25,000**	6:1	15mm/min	Beginning	Up
G. Atkinson	Lat. 36°58'25" N	N&E	stone.	N 1.40	0.42	1.42	50,000**	Critical			N
In Charge	Long. 111°35'35" W		1,339 m.	E 1.37	0.48	1.36	50,000**	18:1			E
Guam, Mariana Islands	Log cos 9.98776	Std-SP	Fractured	Z 1.0	0.75		6,250	17:1	60mm/min	Beginning	Up
K. Cravens	Lat. 13°32'18.0"N		Volcanic	N 1.0	0.75		6,250				N
In Charge	Long. 144°54'42.0"E		tuff.	E 1.0	0.75		6,250				E
		Std-LP	230 m.	Z 30	100		750	Critical	30mm/min	Beginning	Up
				N 30	100		750				N
				E 30	100		750				E
	Log cos 9.98768	W-L, Z	Volcanics	Z 1.01	1.5		5,000	Near crit.	30mm/min	Beginning	Up
	Lat. 13°35'16" N		147 m.	N 7.35	7.0		3,000	Near crit.			N
	Long. 144°51'58" E	Spg, N&E		E 7.09	7.2		3,000	Near crit.			E
*Honolulu, Hawaii	Log cos 9.96926	M-S, N&E	Coral. 3 m.	N 12			124	20:1	30mm/min	Beginning	N
R. C. Munson	Lat. 21°18'13" N	Mass 1 lb.		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

Station	Position	Instrument	Foundation and Elevation	T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
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	N 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
R. C. Munson	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 30	100		1,500	Critical	15mm/min	Beginning	Up
				N 30	100		1,500				N
				E 30	100		1,500				E
		B-VR, Z		Z 1.09	0.2		20,000	Near crit.	60mm/min	Beginning	Up
*Philadelphia, Pa.	Log cos 9.88452	W, N&E	Cape May	N 9.0	5.4		1,400	15:1	20mm/min	End	S
I. M. Levitt	Lat. 39°57'32" N	Mass 500 g.	sand and	E 9.2	4.1		1,400	15:1			E
In Charge	Long 75°10'30" W		gravel. 5 m.								
Rapid City, S. Dak.	Log 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 m.	N 1.0	0.75		12,500				N
In Charge	Long. 103°12'30" 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
Salt Lake City, Utah	Log cos 9.87932	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 9.97726	W, N&E	Limestone.	N 9.8	15.6	10.4		20:1	30mm/min	Beginning	N
M. Vazquez	Lat. 18°22.9" N	Mass 500 g.	80 m.	E 9.8	16.8	10.4	1,280	20:1			W
In Charge	Long. 66°07.1' W	B, Z		Z 1.05	0.5	0.6	20,000	Critical			Up
*Sitka, Alas.	Log cos 9.73544	W, N&E	Graywacke.	N 7.5	16.5	8.2	1,000	20:1	15mm/min	Beginning	S
B. Main	Lat. 57°03'25" N	Mass 500 g.	9 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
Tucson, Ariz.	Log cos 9.92696	Std-SP	Metamorphics	Z 1.0	0.75		200,000	17:1	60mm/min	Beginning	Up
C. J. Beers	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 30	100		1,500	Critical	30mm/min	Beginning	Up
				N 30	100		1,500				N
				E 30	100		1,500				E
	Log cos 9.92725	W-A, N&E	Caliche or	N 8.0			466	Critical	30mm/min	Beginning	S
	Lat. 32°14.8 N	Mass 2.3 g.	gravels 100-	E 8.0			457	Critical			E
	Long. 110°50.1' W	B, Z (LP)	300 m. thick.	Z 1.0	77		50,000	Near crit.	30mm/min		Up
		(SP)	700 m.		0.236		50,000		60mm/min		Up

Station	Position	Instrument	Foundation and Elevation	T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
Ukiah, Calif.	Log cos 9.88968	McC-R, N&E	Alluvium	Z 11.9			75	Near crit.	30mm/min	Beginning	S
L. F. Caouette	Lat. 39°08' N	Mass 10 kg.	180 m. 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 on schistose granite. 0 m.	Z 1.5	4.0		10,000		30mm/min		Up
	Lat. 38°53'33" N	Visible			Pen						
	Long. 77°01'59" W	recorder			0.5						

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

1The seismometer is in a vault about 2.1 miles northeast of the main station. The signal is carried by cable to the main vault where it is fed into a galvanometer and recorded on photographic paper.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
1	00 42 55.4	12.0 N	86.7 W	108	4.3	NICARAGUA.
1	00 45 07.2	50.8 N	176.7 E	33	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
1	02 38 19.0	59.8 N	148.9 W	40	4.7	KENAI PENINSULA, ALASKA.
1	02 47 33.9	46.3 N	146.9 E	33	5.4	NORTHWEST OF KURILE ISLANDS. MAG. 5 (PAL).
1	03 41 15.0	42.6 N	111.8 W	33		EASTERN IDAHO.
1	06 05 33.7	58.9 N	151.7 W	20	4.6	KODIAK ISLAND REGION.
1	07 16 32*	35.4 N	140.1 E	74	4.3	NEAR EAST COAST OF HONSHU, JAPAN. FELT IN TOKYO AREA.
1	09 25 55*	2.0 S	141.2 E	33		NEAR NORTH COAST OF NEW GUINEA.
1	09 46 49.6	45.2 N	150.3 E	75	4.8	KURILE ISLANDS. MAG. 5-5 1/4 (PAL).
1	09 52 31.8	44.6 N	149.9 E	33	4.9	KURILE ISLANDS.
1	13 31 06.2	52.7 N	168.2 W	33	5.0	FOX ISLANDS, ALEUTIAN ISLANDS.
1	13 33 10*	1.8 N	127.1 E	33	4.5	HALMAHERA.
1	16 04 32*	28.9 S	177.4 W	33	4.3	KERMADEC ISLANDS.
1	20 09 31.2	30.9 N	41.5 W	33	5.0	NORTH ATLANTIC RIDGE.
1	20 20 56.6	17.1 S	69.1 W	147	5.1	PERU-BOLIVIA BORDER REGION.
1	22 46 18.7	31.1 N	139.6 E	147	5.1	SOUTH OF HONSHU, JAPAN.
1	22 49 17.8	14.2 S	73.3 W	80	5.2	PERU. MAG. 5 1/4 (PAL).
1	23 05 07*	10.0 S	148.6 E	176		EAST NEW GUINEA REGION.
2	01 19 02.7	60.1 N	146.0 W	14	5.1	SOUTHERN ALASKA. MAG. 5 1/4 (PAL).
2	05 03 35*	1.2 N	118.9 E	133		BORNEO.
2	05 55 28*	39.1 S	74.7 W	33	4.5	OFF COAST OF CENTRAL CHILE.
2	06 35 18.3	53.4 N	167.8 W	45	4.8	FOX ISLANDS, ALEUTIAN ISLANDS.
2	09 09 39.8	11.6 S	74.4 W	28	4.6	PERU.
2	10 04 34.8	47.7 N	152.9 E	33	4.2	KURILE ISLANDS.
2	12 11 23*	1.0 N	124.3 E	160		NORTHERN CELEBES.
2	14 11 31.5	18.0 S	168.1 E	15	4.2	NEW HEBRIDES ISLANDS.
2	15 09 13.5	47.6 N	128.7 W	33	4.0	OFF COAST OF WASHINGTON.
2	17 02 34*	47.4 N	127.9 W	33	3.8	OFF COAST OF WASHINGTON.
2	17 03 42.4	47.7 N	128.3 W	33	4.9	OFF COAST OF WASHINGTON. MAG. 5 1/2 (BRK), 5 1/2-5 3/4 (PAL).
2	17 17 34.4	47.7 N	128.8 W	14	5.0	OFF COAST OF WASHINGTON. MAG. 5 1/2 (PAL).
2	18 54 40.4	38.6 N	138.1 E	33	4.4	NEAR WEST COAST OF HONSHU, JAPAN.
2	22 09 37.3	20.2 S	175.6 W	157	4.5	TONGA ISLANDS.
2	22 51 35.9	39.0 S	74.6 W	33	4.7	OFF COAST OF CENTRAL CHILE.
3	01 23 03*	6.5 S	105.3 E	57	5.3	SUNDA STRAIT.
3	02 33 50.0	13.0 N	90.9 W	8	3.9	NEAR COAST OF GUATEMALA.
3	05 05 33.8	19.4 N	104.3 W	102	4.4	NEAR COAST OF JALISCO, MEXICO. MAG. 4 1/4-4 1/2 (PAL).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
3	08 16 33.7	38.2 N	138.9 E	33	4.7	NEAR WEST COAST OF HONSHU, JAPAN.
3	11 03 50.4	15.0 N	88.2 W	60	3.8	HONDURAS.
3	14 10 33.0	33.9 N	74.5 E	94	4.9	SOUTHWESTERN KASHMIR.
3	19 18 34.0	11.0 N	39.3 E	60	5.0	ETHIOPIA.
3	21 58 08.1	21.9 S	170.1 E	45		LOYALTY ISLANDS REGION.
3	23 50 23.0	18.2 N	94.4 W	10	4.4	GULF OF CAMPECHE.
4	02 36 55*	11.3 N	86.5 W	90	4.1	NEAR COAST OF NICARAGUA.
4	06 47 20.0	51.8 N	178.5 W	33	4.7	ANDREANOF ISLANDS, ALEUTIAN IS.
4	10 49 28.8	11.7 N	144.5 E	33	6.0	SOUTH OF MARIANA ISLANDS.
4	11 11 20.0	42.2 N	23.6 E	10	4.7	BULGARIA. FELT AT RAZLOG, BULGARIA; XANTHI, RHODOPI AND SERRAE, GREECE.
4	12 13 56.9	15.5 S	72.5 W	148	5.3	SOUTHERN PERU. MAG. 4 1/2 (BRK).
4	13 08 41*	58.9 N	148.1 W	33	3.5	GULF OF ALASKA.
4	13 41 30*	43.6 N	126.7 W	33	4.7	OFF COAST OF OREGON.
4	13 58 45.9	21.8 S	65.1 W	193	4.3	SOUTHERN BOLIVIA.
5	01 06 28.4	1.2 S	78.3 W	112	4.0	ECUADOR.
5	03 14 33.3	60.8 N	144.9 W	30	4.9	SOUTHERN ALASKA. MAG. 4 1/4 (BRK), 5 (PAL).
5	06 26 09.0	19.9 S	173.3 W	452	3.9	TONGA ISLANDS.
5	08 01 59.3	35.8 N	140.6 E	156	3.9	NEAR EAST COAST OF HONSHU, JAPAN.
5	12 36 27.5	51.2 N	179.1 E	33	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
5	13 32 15.5	18.6 S	168.5 E	86		NEW HEBRIDES ISLANDS.
5	17 57 30.9	11.9 N	142.4 E	20	5.0	SOUTH OF MARIANA ISLANDS.
5	17 58 59.7	60.2 N	146.2 W	27	4.9	SOUTHERN ALASKA.
5	19 07 58.2	26.2 N	110.2 W	33	6.0	GULF OF CALIGORNIA. FELT IN NORTHERN SONORA, BAJA CALIFORNIA, AND AT EL CENTRO, CALIFORNIA. MAG. 5 3/4-6 (BRK), 6-6 1/4 (PAL).
5	22 14 55.8	10.0 S	75.0 W	93	5.0	PERU.
5	22 37 03*	44.6 N	148.7 E	33	4.5	KURILE ISLANDS.
5	23 36 01.5	44.8 N	149.6 E	54	5.5	KURILE ISLANDS. MAG. 6 1/4 (PAS), 5 3/4 (BRK), 6-6 1/4 (PAL).
5	23 39 10.3	44.7 N	149.6 E	48	5.6	KURILE ISLANDS.
6	00 36 27.0	17.3 S	169.6 E	92	4.0	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
6	01 12 39*	26.6 N	110.0 W	33	4.4	GULF OF CALIFORNIA.
6	01 51 19*	26.4 N	110.4 W	33	3.7	GULF OF CALIFORNIA.
6	02 08 19.2	26.5 N	110.2 W	33	5.0	GULF OF CALIFORNIA.
6	02 10 42.1	26.2 N	110.2 W	33	5.1	GULF OF CALIFORNIA.
6	02 14 36.0	26.2 N	110.4 W	33	5.4	GULF OF CALIFORNIA. FELT IN NORTHERN SONORA AND BAJA CALIFORNIA. MAG. 6-6 1/4 (BRK), 6-6 1/4 (PAL).
6	02 25 36*	26.2 N	110.1 W	33	5.3	GULF OF CALIFORNIA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
6	03 06 09.6	26.5 N	110.3 W	33	5.2	GULF OF CALIFORNIA.
6	03 20 59.4	56.7 N	152.3 W	33	4.8	KODIAK ISLAND REGION.
6	05 53 43.7	14.1 N	91.2 W	119	3.7	GUATEMALA.
6	07 17 46*	26.1 N	110.8 W	33	4.1	GULF OF CALIFORNIA.
6	07 22 10.3	18.2 N	100.4 W	82	6.5	GUERRERO, MEXICO. 36 KILLED, 65 INJURED AND CONSIDERABLE PROPERTY DAMAGE IN GUERRERO AND MICHOACAN. MAG. 6 3/4-7 (PAS), 6 3/4-7 (BRK), 7 1/4-7 1/2 (PAL).
6	09 31 56.2	13.5 N	90.4 W	33	4.0	NEAR COAST OF GUATEMALA.
6	09 47 26.0	18.0 S	174.7 W	80	4.4	TONGA ISLANDS.
6	10 06 02.3	6.3 S	154.7 E	49	6.4	SOLOMON ISLANDS.
6	10 13 45.2	37.1 N	71.4 E	100	5.9	AFGHANISTAN-USSR BORDER REGION.
6	10 24 33.8	18.3 N	100.3 W	111	4.3	GUERRERO, MEXICO. FELT AT COYUCA DE CATALAN AND CIUDAD ALTAMIRANO.
6	10 38 41.0	18.7 N	100.5 W	108	4.7	GUERRERO, MEXICO. FELT AT COYUCA DE CATALAN AND CIUDAD ALTAMIRANO.
6	11 09 38*	18.4 N	100.3 W	42	3.9	GUERRERO, MEXICO. FELT AT COYUCA DE CATALAN AND CIUDAD ALTAMIRANO.
6	12 34 35.8	17.8 S	167.5 E	33	4.3	NEW HEBRIDES ISLANDS. FELT AT LUGANVILLE.
6	14 01 57*	26.9 N	110.1 W	33	4.8	GULF OF CALIFORNIA.
6	14 06 32.6	24.2 S	69.7 W	128	4.5	NORTHERN CHILE.
6	14 19 46.3	6.9 S	129.6 E	100	5.8	BANDA SEA.
6	19 21 12.7	18.7 N	100.3 W	81	4.3	GUERRERO, MEXICO. FELT AT COYUCA DE CATALAN AND CIUDAD ALTAMIRANO.
6	19 50 42.1	21.2 S	173.8 E	22	4.8	NEW HEBRIDES ISLANDS REGION.
6	20 07 28*	19.1 N	100.6 W	105	3.7	MICHOACAN, MEXICO. FELT AT COYUCA DE CATALAN AND CIUDAD ALTAMIRANO.
7	01 28 29.9	44.4 N	149.4 E	30	4.5	KURILE ISLANDS.
7	04 05 27*	73.7 N	8.6 E	33	4.5	GREENLAND SEA.
7	05 24 20*	18.2 N	100.2 W	100	4.2	GUERRERO, MEXICO. FELT AT COYUCA DE CATALAN AND CIUDAD ALTAMIRANO.
7	05 28 42.1	15.6 N	93.9 W	33	3.8	NEAR COAST OF CHIAPAS, MEXICO.
7	06 44 49.2	8.8 S	110.7 E	60		JAVA.
7	07 39 04.2	23.6 S	179.9 W	462	5.5	SOUTH OF FIJI ISLANDS. MAG. 4 1/2 (BRK).
7	09 59 20*	10.8 N	86.6 W	33	4.9	OFF COAST OF COSTA RICA.
7	13 44 40.3	43.4 N	127.2 W	7	5.7	OFF COAST OF OREGON. MAG. 4 3/4 (BRK).
7	13 58 31.0	43.9 N	16.1 E	36	4.7	YUGOSLAVIA. FELT AT SPLIT.
7	14 16 56*	20.1 S	178.0 W	617		FIJI ISLANDS REGION.
7	16 28 42.9	11.2 S	163.2 E	13	5.1	SOLOMON ISLANDS.
7	19 49 16*	16.1 S	174.7 W	33	4.3	TONGA ISLANDS.
7	21 12 33.6	35.8 N	73.4 E	19	5.2	NORTHWESTERN KASHMIR.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
7	21 31 37*	17.3 S	178.7 W	574		FIJI ISLANDS REGION.
7	22 14 01.8	15.2 N	93.2 W	90	4.1	NEAR COAST OF CHIAPAS, MEXICO.
8	01 32 56.3	34.9 N	21.7 E	18	4.3	MEDITERRANEAN SEA.
8	01 35 02.5	15.3 S	173.1 W	33	4.8	TONGA ISLANDS.
8	05 55 42.2	38.4 N	118.4 W	10	4.4	CALIFORNIA-NEVADA BORDER REGION. MAG. 4 1/4 (BRK).
8	07 07 16.0	19.2 N	121.1 E	37	4.6	PHILIPPINE ISLANDS REGION.
8	07 45 48.6	3.2 N	128.4 E	50	5.5	NORTH OF HALMAHERA.
8	10 12 22*	51.4 N	179.5 E	33	4.6	RAT ISLANDS, ALEUTIAN ISLANDS.
8	11 49 23.7	6.4 S	154.8 E	73	5.1	SOLOMON ISLANDS. FELT ON NEW BRITAIN.
8	11 55 39*	5.5 S	129.8 E	165	6.5	BANDA SEA.
8	15 24 08.3	18.0 S	178.5 W	558	4.0	FIJI ISLANDS REGION.
8	23 50 45*	60.9 N	142.8 W	33	4.1	SOUTHERN ALASKA.
9	00 21 18*	59.8 N	150.7 W	15	4.3	KENAI PENINSULA, ALASKA.
9	03 38 10.8	29.3 N	52.7 E	55		SOUTHERN IRAN.
9	05 47 09.2	15.4 N	119.8 E	53	5.5	LUZON, PHILIPPINE ISLANDS. FELT AT MANILA.
9	10 48 21.5	13.0 N	90.2 W	56	3.6	NEAR COAST OF GUATEMALA.
9	11 22 05.4	23.3 S	175.7 W	43	5.7	TONGA ISLANDS REGION. MAG. 6 1/2 (PAS), 5 1/2-5 3/4 (BRK).
9	12 02 11.9	34.2 N	140.9 E	49	5.0	NEAR EAST COAST OF HONSHU, JAPAN. FELT ON HONSHU.
9	13 58 34.7	17.3 S	64.6 W	33	4.5	BOLIVIA. FELT IN CENTRAL BOLIVIA.
9	16 39 49.3	15.5 S	167.6 E	121	6.6	NEW HEBRIDES ISLANDS. WIDELY FELT. MAG. 7 1/2 (PAS), 7 1/2-8 (BRK).
9	18 45 32.9	49.4 N	153.5 E	140	5.3	KURILE ISLANDS.
9	21 43 46.3	1.8 S	141.6 E	33		NEW GUINEA REGION.
9	21 56 48.4	44.2 N	149.5 E	33	4.5	KURILE ISLANDS.
10	01 17 53.3	0.6 S	19.8 W	33	4.6	CENTRAL MID-ATLANTIC RIDGE.
10	07 23 10*	55.6 N	154.1 W	33	3.9	SOUTH OF ALASKA.
10	11 50 46.8	26.5 N	109.7 W	33	4.5	GULF OF CALIFORNIA.
10	17 08 57.3	47.2 N	153.1 E	82	4.8	KURILE ISLANDS.
10	19 16 43.5	16.0 S	71.6 W	134	4.9	SOUTHERN PERU.
10	21 16 26*	20.1 S	174.2 W	33	4.6	TONGA ISLANDS.
10	21 48 42.5	8.5 S	147.9 E	127		EAST NEW GUINEA REGION.
10	22 23 51.5	53.4 N	167.8 W	33	4.8	FOX ISLANDS, ALEUTIAN ISLANDS.
11	00 15 52*	53.2 N	168.6 W	61	4.6	FOX ISLANDS, ALEUTIAN ISLANDS.
11	01 36 16.3	7.3 S	148.0 E	58	5.1	EAST NEW GUINEA REGION.
11	02 47 25.3	42.9 N	110.7 W	33		WYOMING.
11	04 45 28.6	41.6 N	142.3 E	50	4.7	HOKKAIDO, JAPAN REGION.
11	05 53 53.4	23.8 S	177.4 W	215	4.2	SOUTH OF FIJI ISLANDS.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
11	06 40 45.6	11.7 S	166.6 E	33	4.4	SANTA CRUZ ISLANDS.
11	06 48 14.5	19.3 S	169.6 E	143	4.6	NEW HEBRIDES ISLANDS.
11	08 15 39*	2.6 S	77.6 W	148	4.1	PERU-ECUADOR BORDER REGION.
11	08 29 12.9	22.4 N	121.4 E	118	4.9	TAIWAN REGION.
11	09 44 18.7	59.7 N	146.1 W	33	5.3	GULF OF ALASKA. MAG. 4 3/4 (BRK).
11	11 16 33*	14.1 N	93.0 W	51	3.7	NEAR COAST OF CHIAPAS, MEXICO.
11	11 52 25.0	1.0 N	29.3 W	33	4.9	CENTRAL MID-ATLANTIC RIDGE.
11	12 38 52*	18.9 N	109.0 W	33	3.8	REVILLA GIGEDO ISLANDS REGION.
11	14 33 06.9	49.3 N	129.0 W	33	4.7	VANCOUVER ISLAND REGION.
11	15 03 22.6	13.4 N	62.9 W	33	4.1	WINDWARD ISLANDS.
11	15 35 53.1	5.8 N	126.4 E	152	5.0	MINDANAO, PHILIPPINE ISLANDS.
11	17 07 38.9	16.9 S	172.8 W	33	4.7	SAMOA ISLANDS REGION.
11	17 32 16.8	15.5 S	167.7 E	143	4.5	NEW HEBRIDES ISLANDS. FELT AT SANTO.
11	17 44 29.8	66.4 N	19.7 W	19	4.9	ICELAND REGION.
11	18 53 15.8	12.2 N	141.6 E	61	4.7	SOUTH OF MARIANA ISLANDS.
11	20 25 40.3	59.7 N	146.2 W	40	5.6	GULF OF ALASKA. MAG. 5-5 1/4 (BRK), 5 1/2-5 3/4 (PAL).
11	21 05 49.9	59.7 N	146.5 W	33	4.9	GULF OF ALASKA. MAG. 4 3/4-5 (BRK).
11	22 34 43.8	41.7 N	29.9 W	33	4.8	AZORES ISLANDS REGION.
12	01 45 25.6	38.6 N	139.2 E	13	6.0	NEAR WEST COAST OF HONSHU, JAPAN. FELT ON HONSHU. MAG. 5 3/4-6 (BRK), 5 1/4-5 1/2 (PAL).
12	03 23 49.1	18.5 N	100.5 W	113	3.9	GUERRERO, MEXICO.
12	09 00 40*	60.1 N	146.1 W	33	3.8	SOUTHERN ALASKA.
12	11 23 29*	53.1 N	168.6 W	33	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
12	11 58 57.0	40.2 N	124.7 W	33	4.2	NEAR COAST OF NORTHERN CALIF.
12	12 18 19.1	40.3 N	126.1 W	33	4.7	OFF COAST OF NORTHERN CALIFORNIA.
12	16 48 21.7	24.5 S	66.9 W	164	5.1	SALTA PROVINCE, ARGENTINA. MAG. 4 3/4 (BRK).
12	20 00 59.6	53.8 N	81.3 E	20	5.0	CENTRAL RUSSIA.
12	20 15 59.0	24.9 N	95.3 E	155	6.7	BURMA.
12	20 19 17.4	40.5 N	142.5 E	33	4.5	NEAR EAST COAST OF HONSHU, JAPAN.
12	21 08 52.6	55.9 S	27.6 W	135	5.2	SOUTH SANDWICH ISLANDS REGION.
13	01 14 33.5	20.7 S	178.7 W	575	4.9	FIJI ISLANDS REGION.
13	06 28 28.4	11.8 S	166.0 E	66	4.5	SANTA CRUZ ISLANDS.
13	06 47 54*	44.7 N	129.9 W	33	5.5	OFF COAST OF OREGON.
13	10 03 45.3	25.0 S	179.9 W	424	4.5	SOUTH OF FIJI ISLANDS.
13	10 08 07.2	15.9 S	167.9 E	33	5.4	NEW HEBRIDES ISLANDS.
13	10 58 47.7	23.7 N	94.7 E	117	6.5	BURMA-INDIA BORDER REGION.
13	11 54 50.7	42.5 N	126.7 W	33	5.6	OFF COAST OF OREGON. MAG. 4 1/2 (BRK).

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
13	12 30 41*	5.6 S	106.3 E	333	4.3	JAVA.
13	14 53 27.0	20.9 S	169.9 E	89	5.1	NEW HEBRIDES ISLANDS.
13	15 52 04.8	56.6 N	154.0 W	25	4.8	KODIAK ISLAND REGION.
13	16 22 26*	53.7 N	35.2 W	33	4.3	NORTH ATLANTIC OCEAN.
13	16 49 38.8	8.3 S	113.7 E	153		JAVA.
13	17 12 01.3	8.0 N	126.8 E	104	4.0	MINDANAO, PHILIPPINE ISLANDS. FELT AT HINATUAN.
13	21 02 33.3	7.7 N	34.7 W	33	5.2	CENTRAL MID-ATLANTIC RIDGE.
13	21 41 02.6	55.2 N	156.5 W	33	4.1	SOUTH OF ALASKA.
13	22 47 27*	41.8 S	84.3 W	33	4.8	WEST CHILE RISE.
13	23 43 48*	48.3 S	32.0 E	33		PRINCE EDWARD ISLANDS REGION.
14	04 04 18.2	53.6 N	172.0 E	33	4.9	NEAR ISLANDS, ALEUTIAN ISLANDS.
14	05 22 20.0	60.4 N	142.9 W	10	4.8	SOUTHERN ALASKA.
14	05 33 55.1	57.0 N	7.3 E	36	5.1	NORTH SEA. FELT AT EXTREME SOUTHERN POINT OF NORWAY.
14	09 55 24.4	19.0 N	66.5 W	46	4.8	PUERTO RICO REGION. FELT ON PUERTO RICO. MAG. 4 1/4-4 1/2 (PAL).
14	12 47 25.6	41.8 N	125.7 W	33	5.4	OFF COAST OF NORTHERN CALIFORNIA. MAG. 4 1/4-4 1/2 (BRK).
14	13 58 28.5	53.3 N	159.7 E	40	5.5	NEAR EAST COAST OF KAMCHATKA.
14	15 50 04.8	49.0 N	122.6 W	13	4.6	WASHINGTON. SLIGHT DAMAGE IN WASHINGTON AND BRITISH COLUMBIA. FELT OVER AN AREA OF 8,000 SQUARE MILES.
14	17 19 23.3	45.3 N	150.2 E	33	4.8	KURILE ISLANDS.
14	18 38 39.1	52.7 S	139.4 E	36		WEST OF MACQUARIE ISLAND.
14	22 59 09.2	59.5 N	144.8 W	20	5.1	GULF OF ALASKA. MAG. 4 1/2-4 3/4 (PAL).
14	23 12 12.7	34.3 S	179.1 E	75	5.1	SOUTH OF KERMADEC ISLANDS.
15	03 11 05.1	32.5 N	117.1 W	16		CALIFORNIA-MEXICO BORDER REGION. FELT IN SAN DIEGO COUNTY.
15	07 26 01.4	52.1 N	170.6 W	30	5.6	FOX ISLANDS, ALEUTIAN ISLANDS. MAG. 4 3/4-5 (PAL).
15	08 24 56.5	11.3 S	166.1 E	130	4.7	SANTA CRUZ ISLANDS.
15	09 49 05.8	35.2 N	4.5 E	39	4.3	ALGERIA. FELT IN EASTERN ALGERIA.
15	18 56 26.0	44.0 N	148.1 E	30	5.5	KURILE ISLANDS.
16	00 52 51*	15.6 S	167.6 E	125		NEW HEBRIDES ISLANDS.
16	04 21 05.3	1.5 N	126.4 E	69		MOLUCCA PASSAGE.
16	04 51 36.5	15.6 S	167.7 E	121		NEW HEBRIDES ISLANDS. FELT AT SANTO.
16	09 19 45.8	29.9 N	138.0 E	461	4.1	SOUTH OF HONSHU, JAPAN.
16	10 37 23.1	44.0 N	148.3 E	33	4.8	KURILE ISLANDS.
16	11 27 05*	17.9 S	179.5 W	625	4.2	FIJI ISLANDS REGION.
16	12 20 56*	17.2 N	94.4 W	81	4.0	CHIAPAS, MEXICO.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
16	13 15 00.2	0.	0.			37° 10' 56"N. 116° 03' 43"W. NEVADA TEST SITE. "BYE." SHOT ELEVATION 927.5 METERS.
16	13 15 26.3	16.0 N	145.5 E	33	5.0	MARIANA ISLANDS.
16	14 18 06.4	0.	0.			"BYE." COLLAPSE.
16	16 07 18.3	0.3 N	67.0 E	33	5.1	CARLSBERG RIDGE.
16	17 39 59.6	36.1 N	30.8 E	61	4.9	TURKEY.
16	17 51 50.4	8.5 N	82.9 W	34	4.5	PANAMA-COSTA RICA BORDER REGION.
17	02 34 26.9	38.2 N	23.7 E	150	5.4	GREECE. FELT OVER AN AREA OF 540,000 SQUARE KILOMETERS. MAG. 5 1/2-5 3/4 (BRK).
17	04 41 05.1	49.3 N	158.6 E	50	5.4	KURILE ISLANDS REGION. MAG. 4 3/4 (BRK).
17	04 55 00*	24.3 S	179.6 E	495		SOUTH OF FIJI ISLANDS.
17	18 39 46*	57.1 N	150.9 W	33	4.2	GULF OF ALASKA.
17	19 09 16.4	24.3 S	177.1 W	93	4.1	SOUTH OF FIJI ISLANDS.
17	21 49 58.3	44.5 N	149.9 E	39	4.5	KURILE ISLANDS.
17	22 54 42.2	44.6 N	149.2 E	33	5.4	KURILE ISLANDS.
18	03 12 20.1	60.5 N	139.6 W	33	3.8	SOUTHEASTERN ALASKA.
18	03 40 21.5	36.3 N	26.1 E	115	4.9	DODECANESE ISLANDS. FELT OVER AN AREA OF 230,000 SQUARE KILOMETERS.
18	07 33 39*	38.8 N	138.5 E	33	4.1	NEAR WEST COAST OF HONSHU, JAPAN.
18	11 13 14.2	18.4 S	70.9 W	40	4.8	NEAR COAST OF NORTHERN CHILE.
18	12 45 47.7	0.2 N	123.5 E	97	5.8	NORTHERN CELEBES.
18	17 30 51*	53.1 N	158.4 E	95	4.5	NEAR EAST COAST OF KAMCHATKA.
18	20 05 13.8	44.6 N	149.0 E	33	4.3	KURILE ISLANDS.
18	20 37 36*	11.0 N	87.0 W	33	4.6	NEAR COAST OF NICARAGUA.
18	23 36 21.0	60.0 N	143.4 W	33	4.9	SOUTHERN ALASKA.
19	02 51 57.8	21.4 S	64.9 W	102	4.0	SOUTHERN BOLIVIA.
19	05 59 58.9	49.9 N	78.1 E	0	5.5	EASTERN KAZAKH SSR.
19	06 50 18.9	13.9 S	167.2 E	198	4.6	NEW HEBRIDES ISLANDS.
19	07 31 54*	48.8 N	154.7 E	87	4.4	KURILE ISLANDS.
19	12 30 39*	44.4 N	149.3 E	33	4.2	KURILE ISLANDS.
19	13 40 06.6	15.1 S	173.4 W	33	4.7	TONGA ISLANDS.
19	15 33 57.6	9.4 S	113.0 E	80		SOUTH OF JAVA.
19	18 10 48.2	7.5 N	121.8 E	51		MINDANAO, PHILIPPINE ISLANDS.
19	20 26 31*	3.1 S	126.8 E	30		BURU.
20	04 29 28*	6.7 S	154.6 E	78	5.0	SOLOMON ISLANDS.
20	08 27 27*	13.6 N	87.9 W	87	3.8	HONDURAS.
20	09 34 22*	64.5 S	176.7 E	33		BALLENY ISLANDS REGION.
20	10 22 53*	35.2 S	179.8 W	108	4.8	EAST OF NORTH ISLAND, N.Z.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
20	13 31 14*	14.4 N	53.5 E	33		ARABIAN SEA.
20	18 49 43.5	19.8 N	109.0 W	33	5.1	REVILLA GIGEDO ISLANDS REGION. MAG. 4 1/2-4 3/4 (BRK), 5 (PAL).
20	22 37 23.6	51.2 N	179.6 W	33	4.7	ANDREANOF ISLANDS, ALEUTIAN IS.
20	22 43 15*	35.5 S	179.7 E	223	4.9	OFF E. COAST OF N. ISLAND, N.Z.
20	22 56 01*	34.4 S	179.2 E	162	5.0	SOUTH OF KERMADEC ISLANDS.
21	01 07 55.8	19.6 N	109.1 W	33	5.3	REVILLA GIGEDO ISLANDS REGION.
21	01 09 25.8	19.8 N	108.8 W	31	4.9	REVILLA GIGEDO ISLANDS REGION. MAG. 4 3/4-5 (BRK).
21	02 47 48.6	31.3 S	180.0 W	433	4.0	KERMADEC ISLANDS.
21	03 27 08.7	42.2 N	125.5 W	33		OFF COAST OF OREGON.
21	03 41 04.8	18.8 N	109.3 W	33	3.7	REVILLA GIGEDO ISLANDS REGION.
21	03 48 59.1	26.0 S	178.0 W	222	5.8	SOUTH OF FIJI ISLANDS. MAG. 6 1/2 (PAS), 5 1/4-5 1/2 (BRK).
21	05 43 05*	1.9 S	104.7 W	33	4.1	NORTHERN EASTER I. CORDILLERA.
21	07 01 59.3	13.1 N	88.4 W	68	4.7	EL SALVADOR. FELT AT SAN SALVADOR.
21	07 33 19.6	20.0 S	69.8 W	84	4.5	NORTHERN CHILE.
21	09 56 16.6	72.1 N	130.2 E	33	5.4	LAPTEV SEA.
21	10 22 14*	29.1 S	71.9 W	33	4.1	NEAR COAST OF CENTRAL CHILE.
21	11 46 54.0	27.7 N	56.5 E	50		SOUTHERN IRAN.
21	13 13 00.2	11.5 N	121.9 E	34		PANAY, PHILIPPINE ISLANDS. FELT ON PANAY.
21	18 05 40.2	15.3 N	93.2 W	33	3.7	NEAR COAST OF CHIAPAS, MEXICO.
21	21 01 49.5	4.6 S	153.3 E	60	4.9	NEW IRELAND REGION. FELT AT RABAUL, NEW BRITAIN.
22	00 49 20.4	14.6 S	167.6 E	33	4.1	NEW HEBRIDES ISLANDS.
22	01 06 43.8	41.8 S	75.9 W	33	4.8	OFF COAST OF SOUTHERN CHILE.
22	02 04 52.5	1.9 S	149.6 E	78	4.4	NEW IRELAND REGION.
22	03 50 51.6	14.3 S	167.4 E	203	4.0	NEW HEBRIDES ISLANDS. FELT AT SANTO.
22	04 41 55.1	27.6 N	55.0 E	64	4.9	SOUTHERN IRAN.
22	07 04 35*	54.2 S	132.4 W	33	4.6	SOUTH PACIFIC CORDILLERA.
22	07 37 52.4	16.3 S	167.7 E	6		NEW HEBRIDES ISLANDS. FELT AT LAMAP AND SANTO.
22	08 51 31*	4.1 N	125.7 E	237	4.4	TALAUD ISLANDS.
22	09 53 32.9	31.3 N	116.5 W	16		BAJA CALIFORNIA.
22	10 34 07.6	31.6 N	114.0 W	16		GULF OF CALIFORNIA.
22	12 19 38.5	22.2 S	175.4 W	33	4.3	TONGA ISLANDS REGION.
22	17 51 14.8	59.7 N	153.4 W	33		SOUTHERN ALASKA.
22	20 15 04.6	13.2 N	144.3 E	146	4.7	MARIANA ISLANDS.
23	01 53 11.4	28.8 S	70.3 W	37	4.6	CENTRAL CHILE.
23	04 57 54.3	10.5 N	83.9 W	114	4.2	COSTA RICA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
23	07 11 29*	60.7 N	147.9 W	9	3.9	SOUTHERN ALASKA.
23	09 40 29.2	0.7 S	16.3 W	33	4.8	NORTH OF ASCENSION ISLAND.
23	14 19 01.1	57.1 N	150.4 W	33	5.1	GULF OF ALASKA.
23	15 56 28*	59.7 N	145.8 W	20	4.7	GULF OF ALASKA.
23	19 08 06.6	59.9 N	149.2 W	55	5.4	KENAI PENINSULA, ALASKA. FELT AT ANCHORAGE, SEWARD AND KENAI. MAG. 4 (BRK).
23	19 18 56.8	27.8 S	66.4 W	130	5.2	CATAMARCA PROVINCE, ARGENTINA.
23	23 57 55*	20.1 N	96.4 W	33	4.2	VERA CRUZ, MEXICO.
24	00 46 27.1	18.5 N	100.3 W	147	4.0	GUERRERO, MEXICO.
24	01 39 39.0	14.2 N	91.6 W	65	4.9	GUATEMALA.
24	04 08 08.4	80.4 N	110.5 W	33	4.1	ARCTIC OCEAN.
24	06 50 52.8	46.9 N	153.9 E	33	5.9	KURILE ISLANDS. MAG. 6 (PAS), 6 (BRK).
24	07 13 01.2	46.9 N	153.8 E	33	4.6	KURILE ISLANDS.
24	07 35 48.4	56.3 N	157.8 W	24	5.2	ALASKA PENINSULA.
24	08 12 40.0	47.2 N	153.8 E	33	5.9	KURILE ISLANDS. MAG. 6 1/2 (PAS), 6 3/4 (BRK).
24	08 29 47.6	46.9 N	153.9 E	20	5.1	KURILE ISLANDS.
24	09 07 31.1	47.0 N	153.7 E	33	4.4	KURILE ISLANDS.
24	09 17 00.5	46.8 N	154.1 E	33	5.0	KURILE ISLANDS REGION.
24	09 35 18.4	46.8 N	153.8 E	31	4.6	KURILE ISLANDS.
24	10 02 16.4	46.8 N	153.8 E	33	5.1	KURILE ISLANDS.
24	10 54 52.5	13.1 N	145.0 E	43	5.6	MARIANA ISLANDS. FELT ON GUAM.
24	12 09 27.0	46.8 N	154.1 E	33	4.7	KURILE ISLANDS REGION.
24	12 35 59.5	46.9 N	154.0 E	33	4.9	KURILE ISLANDS REGION.
24	13 25 18.3	47.0 N	153.7 E	33	5.7	KURILE ISLANDS. MAG. 5 3/4-6 (BRK).
24	13 40 45*	60.3 N	148.3 W	35	3.9	KENAI PENINSULA, ALASKA.
24	13 47 48.6	6.6 S	154.8 E	62	5.6	SOLOMON ISLANDS.
24	14 25 58.5	46.8 N	153.6 E	33	4.7	KURILE ISLANDS.
24	14 47 43.5	46.8 N	153.8 E	33	4.5	KURILE ISLANDS.
24	16 34 29.2	47.2 N	153.9 E	33	5.0	KURILE ISLANDS.
24	17 02 49.2	47.1 N	153.6 E	33	5.8	KURILE ISLANDS. MAG. 6 1/4 (PAS), 6 (BRK).
24	17 17 32*	46.9 N	154.0 E	33	4.5	KURILE ISLANDS REGION.
24	17 48 59.0	45.1 N	150.5 E	33	4.5	KURILE ISLANDS.
24	18 50 04.1	47.0 N	153.8 E	33	5.1	KURILE ISLANDS.
24	18 52 02.1	46.7 N	153.9 E	33	4.8	KURILE ISLANDS.
24	18 55 14.1	46.9 N	154.0 E	33	4.9	KURILE ISLANDS REGION.
24	19 06 54*	60.0 N	146.2 W	33	3.9	SOUTHERN ALASKA.
24	19 35 31.4	33.9 N	141.7 E	73	3.9	OFF EAST COAST OF HONSHU, JAPAN.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
24	20 29 11.5	85.9 N	20.6 E	33	4.8	NORTH OF SVALBARD.
24	21 54 54.0	57.7 N	152.2 W	10	5.2	KODIAK ISLAND REGION.
24	22 11 38.2	47.0 N	153.9 E	33	4.8	KURILE ISLANDS.
25	01 33 20.6	52.8 N	159.3 E	70	4.3	OFF EAST COAST OF KAMCHATKA.
25	02 16 03*	46.7 N	153.8 E	33	4.7	KURILE ISLANDS.
25	02 24 38.9	1.8 S	141.0 E	48		NEW GUINEA REGION.
25	12 20 22.2	19.9 S	176.2 W	205	5.3	FIJI ISLANDS REGION.
25	18 04 11.2	46.8 N	154.1 E	33	4.8	KURILE ISLANDS REGION.
25	18 18 09*	17.1 S	172.9 W	33	4.6	TONGA ISLANDS REGION.
25	19 31 07.0	27.9 S	70.9 W	26	6.1	NEAR COAST OF NORTHERN CHILE. FELT AT COPIAPO AND VALLENAR. MAG. 6 1/2 (PAS), 6 (BRK).
25	21 29 33.2	2.9 N	128.2 E	22	5.1	HALMAHERA.
25	22 47 42.7	9.7 S	159.8 E	21	5.6	SOLOMON ISLANDS. FELT.
26	03 58 29.6	12.7 N	89.6 W	65	4.8	OFF COAST OF CENTRAL AMERICA.
26	06 28 32.7	23.4 S	180.0 E	555	4.9	SOUTH OF FIJI ISLANDS.
26	10 13 07.7	5.0 S	142.1 E	17	4.9	NEW GUINEA.
26	11 44 45.0	52.3 N	176.2 W	100	5.1	ANDREANOF ISLANDS, ALEUTIAN IS.
26	13 02 50*	3.6 S	153.5 E	239	4.5	NEW IRELAND REGION.
26	13 53 25.1	11.8 N	88.2 W	9	4.4	OFF COAST OF CENTRAL AMERICA. FELT AT SAN SALVADOR.
26	13 55 37.4	2.6 N	78.5 W	38	5.2	NEAR WEST COAST OF COLOMBIA.
26	14 21 12.3	27.9 S	71.6 W	33	4.2	NEAR COAST OF NORTHERN CHILE.
26	18 34 34.6	46.8 N	153.8 E	33	5.2	KURILE ISLANDS.
26	18 36 03*	60.2 N	147.0 W	52	3.8	SOUTHERN ALASKA.
26	19 43 40.9	2.5 N	78.4 W	107	4.5	NEAR WEST COAST OF COLOMBIA.
26	19 44 12.8	47.0 N	153.7 E	33	4.2	KURILE ISLANDS.
26	20 24 13.9	4.1 N	126.4 E	33	4.8	TALAUD ISLANDS.
27	00 15 44.7	61.5 N	163.9 E	8	4.7	EASTERN SIBERIA.
27	00 40 26.2	17.0 S	172.7 W	33	4.7	TONGA ISLANDS REGION.
27	01 50 50*	75.6 N	113.9 E	30	4.4	NEAR COAST OF CENTRAL SIBERIA.
27	02 28 00*	16.4 S	173.8 W	33	4.5	TONGA ISLANDS.
27	02 32 45.4	9.2 N	126.4 E	82		MINDANAO, PHILIPPINE ISLANDS.
27	04 03 33.2	1.7 S	77.9 W	164	4.5	ECUADOR.
27	06 27 53*	16.8 N	104.9 W	100	3.9	OFF COAST OF MICHOACAN, MEXICO.
27	11 01 13*	1.9 N	126.3 E	67		MOLUCCA PASSAGE.
27	15 34 05.2	47.5 N	152.5 E	33	4.0	KURILE ISLANDS.
27	15 53 23.6	63.4 N	148.5 W	115	4.2	CENTRAL ALASKA.
27	18 23 51*	47.1 N	153.7 E	33	4.3	KURILE ISLANDS.
27	18 40 53.4	42.4 N	125.3 W	33	4.5	OFF COAST OF OREGON.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
27	19 31 15.0	46.5 N	153.9 E	33	4.2	KURILE ISLANDS.
27	21 00 43.5	20.1 S	175.7 W	163	3.9	TONGA ISLANDS.
27	21 44 38.5	7.7 N	82.3 W	33	4.3	SOUTH OF PANAMA.
27	23 00 36.3	46.8 N	153.8 E	33	5.3	KURILE ISLANDS.
27	23 20 56*	60.9 N	148.0 W	33	4.2	KENAI PENINSULA, ALASKA.
28	00 25 21.9	46.7 N	153.7 E	33	4.1	KURILE ISLANDS.
28	01 54 18.5	10.8 N	86.2 W	33	4.2	OFF COAST OF COSTA RICA.
28	02 53 27*	11.5 N	86.4 W	111	4.2	NEAR COAST OF NICARAGUA.
28	04 40 59.1	7.6 N	82.3 W	26	4.6	SOUTH OF PANAMA.
28	06 19 29.8	45.4 N	151.3 E	33	4.7	KURILE ISLANDS.
28	06 45 46*	7.6 S	127.3 E	257	4.9	BANDA SEA.
28	08 00 00.3	18.9 S	169.4 E	237	4.8	NEW HEBRIDES ISLANDS.
28	08 17 32*	21.5 S	67.9 W	164	4.4	CHILE-BOLIVIA BORDER REGION.
28	10 46 00.6	16.0 S	172.9 W	33	4.6	SAMOA ISLANDS REGION.
28	12 22 43.0	51.3 S	139.3 E	34		SOUTH OF AUSTRALIA.
28	18 08 17.0	44.3 N	148.8 E	33	4.4	KURILE ISLANDS.
28	18 24 03.0	46.5 N	153.7 E	33	4.3	KURILE ISLANDS.
28	18 40 04.3	51.2 S	139.0 E	33	5.3	SOUTH OF AUSTRALIA. MAG. 6 1/4 (PAS), 5 1/4-5 1/2 (BRK).
28	19 50 09*	15.1 S	167.7 E	123		NEW HEBRIDES ISLANDS.
28	21 37 10.9	6.7 N	73.1 W	138	5.0	NORTHERN COLOMBIA.
28	21 38 43.5	14.3 N	96.2 E	33	5.5	ANDAMAN ISLANDS REGION.
28	22 46 34.0	14.1 N	96.1 E	14	5.6	ANDAMAN ISLANDS REGION.
29	04 38 59.2	4.0 S	128.9 E	159	4.9	BANDA SEA.
29	09 46 42.2	14.9 N	93.4 W	56	4.1	NEAR COAST OF CHIAPAS, MEXICO.
29	13 38 52.3	14.3 N	96.1 E	33		ANDAMAN ISLANDS REGION.
29	16 36 57*	7.3 N	77.3 W	33	4.0	PANAMA-COLOMBIA BORDER REGION.
30	01 22 10.1	17.7 S	178.2 W	643	4.3	FIJI ISLANDS REGION.
30	05 16 03.3	11.1 N	86.2 W	42	5.7	NEAR COAST OF NICARAGUA. FELT AT BALBOA HEIGHTS, CANAL ZONE. MAG. 6 (PAS), 6 (BRK), 5 3/4-6 (PAL).
30	07 41 25.0	35.9 N	139.6 E	101	4.0	NEAR S. COAST OF HONSHU, JAPAN.
30	08 41 54*	55.5 S	147.3 E	33		WEST OF MACQUARIE ISLAND.
30	13 12 54.3	6.0 S	154.4 E	79		SOLOMON ISLANDS.
30	15 13 39.2	10.6 N	86.5 W	33	4.7	OFF COAST OF COSTA RICA. FELT IN NICARAGUA.
30	16 53 18.2	61.4 N	145.5 W	25	4.0	SOUTHERN ALASKA.
30	18 15 20.1	1.4 S	149.2 E	90	4.7	NEW IRELAND REGION.
30	22 52 19.4	14.3 N	96.2 E	33		ANDAMAN ISLANDS REGION.
31	02 24 06.7	65.3 N	152.9 W	33	4.4	ALASKA.

DATE 1964	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
31	04 01 11.1	32.5 N	138.7 E	200	4.7	SOUTH OF HONSHU, JAPAN.
31	04 05 06.2	44.6 N	151.6 E	53	5.5	KURILE ISLANDS REGION.
31	05 52 18.8	6.1 S	149.4 E	63	5.9	NEW BRITAIN REGION. FELT ON NEW BRITAIN. MAG. 6 1/2-6 3/4 (PAS), 5 1/2-5 3/4 (BRK).
31	06 26 36.7	25.7 S	179.6 W	429	5.1	SOUTH OF FIJI ISLANDS.
31	09 25 52*	59.7 N	145.0 W	33	4.4	GULF OF ALASKA.
31	12 44 52*	14.4 N	88.9 W	68	3.8	HONDURAS.
31	14 51 22.0	2.4 N	128.2 E	23	4.4	HALMAHERA.
31	20 43 19.2	47.8 N	147.4 E	378	4.8	NORTHWEST OF KURILE ISLANDS.
31	21 22 24.3	86.4 N	38.5 E	33	4.9	NORTH OF FRANZ JOSEF LAND.
31	22 08 26.2	4.3 S	152.8 E	63	4.5	NEW BRITAIN REGION. FELT AT RABAUL.
31	23 45 55.2	86.3 N	40.5 E	10	5.3	NORTH OF FRANZ JOSEF LAND. MAG. 4 3/4-5 (BRK).

Date and Station	Phase (GCT)
	h m s
JUL 1	
H-00 42 55.4	
12.0N 086.7W	
h ABOUT 108KM	
ALQ EP	00 48 50.0
E	48 56.0
FGU E(P)	00 49 39.5
JUL 1	
H-00 45 07.2	
50.8N 176.7E	
h ABOUT 033KM	
COL IP	00 50 11.3
EUR IP C	00 53 39.0
IPCP	55 16.5
FGU EP	00 54 02.4
TUC E(P)	00 54 37.6
JUL 01	
SLC EP	01 11 44.4
FGU EP	01 11 52.4
I	11 53.8
IS	12 26.4
BOZ E(P)	01 12 00.9
IL	12 40.0
EUR EP	01 12 20.5
JUL 01	
BUT EP	01 24 21.2
I	24 26.2
JUL 01	
ALQ EP	01 31 34.0
JUL 1	
H-02 38 19.0	
59.8N 148.9W	
h ABOUT 040KM	
COL IP	02 39 35.5
BOZ IP	02 43 49.9
JUL 1	
H-02 47 33.9	
46.3N 146.9E	
h ABOUT 033KM	
COL IP	02 55 01.0
BOZ IP C	02 58 15.1
IPP	58 24.0
EUR IP C	02 58 25.5
IPP	58 34.5
SLC EP	02 58 35.4
FGU EP	02 58 41.5
BCN IP C	02 58 44.8
IPP	58 53.6
RCD EP	02 58 48.0
EPP	58 57.0

Date and Station	Phase (GCT)
	h m s
GCA EP	02 58 51.3
ALQ IP	02 59 17.0
EPP	59 26.0
CSC EP	03 00 27.0
JUL 01	
BUT IP	02 48 03.2
IS	48 36.7
JUL 01	
FGU IP	03 10 53.0
JUL 1	
H-03 41 15.0	
42.6N 111.8W	
h ABOUT 033KM	
SLC EP	03 41 44.0
FGU EP	03 41 52.6
I	41 54.6
IL	42 27.6
BOZ IP D	03 42 02.0
EUR EP	03 42 21.5
IL	43 34.5
JUL 01	
GUA EP	04 31 36.0
I	32 10.0
COL EP	04 42 10.0
BOZ EP	04 44 04.9
JUL 01	
BUT I(P)	05 29 05.0
I(L)	29 34.2
JUL 1	
H-06 05 33.7	
58.9N 151.7W	
h ABOUT 020KM	
COL IP	06 07 09.0
BOZ EP	06 11 24.0
EUR EP	06 11 41.6
IPCP	14 44.5
ALQ EPCP	06 15 13.0
JUL 01	
BOZ EP	06 35 03.0
EUR EP	06 35 10.4
JUL 1	
H-07 16 32.3	
35.4N 140.1E	
h ABOUT 074KM	
COL IP	07 25 28.7
BOZ E(P)	07 28 16.0
EUR EP	07 28 22.9

Date and Station	Phase (GCT)
	h m s
JUL 01	
FGU EP	07 20 11.5
E(S)	20 31.4
JUL 01	
COL EP	08 50 15.0
EUR E(P)	08 55 53.1
ALQ E(P)	08 57 30.0
JUL 1	
H-09 25 54.5	
02.0S 141.2E	
h ABOUT 033KM	
GUA EP	09 29 41.0
JUL 1	
H-09 46 49.6	
45.2N 150.3E	
h ABOUT 075KM	
COL EP	09 54 09.0
HON E	09 55 30.0
ES	10 02 31.0
E	09 06 42.0
EL	08 33.0
BOZ EP D	09 57 19.9
I	57 30.0
EUR EP	09 57 29.0
SLC E(P)	09 57 41.1
BCN EP	09 57 47.0
E	58 00.2
E	58 19.8
I	58 45.0
FGU EP	09 57 47.9
RCD EP	09 57 52.0
E	58 20.0
GCA EP	09 57 54.9
TUC EP	09 58 16.0
E	58 29.7
ALQ EP	09 58 21.0
E	59 19.0
CSC EP	10 05 37.0
JUL 1	
H-09 52 31.8	
44.6N 149.9E	
h ABOUT 033KM	
COL EP	09 59 59.0
BOZ EP	10 03 09.5
I	03 23.0
EUR EP	10 03 17.4
BCN EP	10 03 38.0
E	03 50.2
E	04 35.0
GCA EP	10 03 49.9

Date and Station	Phase (GCT)
	h m s
RCD E(P)	10 03 55.0
TUC EP	10 04 07.0
ALQ EP	10 04 12.5
E	04 24.0
E	05 09.0
E	06 32.0
JUL 01	
COL EP	10 44 55.0
JUL 01	
BOZ E(P)	11 46 43.0
E	46 53.0
JUL 01	
COL EP	11 55 10.0
JUL 01	
COL EP	12 02 29.0
JUL 01	
COL EP	12 04 14.0
JUL 01	
COL EP	12 05 39.0
JUL 01	
COL EP	12 06 49.0
JUL 01	
COL EP	12 16 38.0
JUL 01	
COL EP	12 35 55.0
JUL 01	
ALQ E(P)	13 00 09.0
JUL 1	
H-13 31 06.2	
52.7N 168.2W	
h ABOUT 033KM	
COL EP	13 34 51.0
BOZ EP D	13 38 12.8
E	38 23.5
EUR IP	13 38 21.5
BCN EP	13 38 44.9
E	38 51.8
E	38 01.0
TUC EP	13 39 24.2
ALQ EP	13 39 30.5
E	39 42.0
JUL 1	
H-13 33 10.4	
01.8N 127.1E	
h ABOUT 033KM	
COL EP	13 45 49.0
EUR EP'	13 51 39.5
EPP	52 09.5
BOZ EP'	13 51 40.0
TUC EP'	13 51 51.0

Date and Station	Phase	(GCT) h m s
ALQ	IP'	13 51 56.0
	E	52 09.0
JUL 01		
TUC	EP	14 02 30.1
JUL 01		
TUC	EP	14 26 08.5
JUL 01		
BUT	IP	14 39 03.6
JUL 01		
BUT	E(P)	15 12 54.1
JUL 01		
BUT	EP	17 06 23.0
	E(S)	09 32.0
JUL 01		
BUT	E(P)	17 20 19.0
JUL 01		
ALQ	EP	18 04 24.0
JUL 01		
BUT	IP	18 07 02.8
JUL 01		
SLC	E(P)	19 23 09.4
	EL	23 37.0
FGU	IP	19 23 18.7
	IS	23 51.3
BOZ	EP	19 23 26.0
	E	24 05.0
EUR	E(P)	19 23 45.5
	EL	24 59.0
JUL 1		
H-20 09 31.2		
30.9N 041.5W		
h ABOUT 033KM		
SJP	EP	20 14 59.3
ALQ	IP	20 18 53.0
	E	19 00.0
FGU	EP	20 18 58.6
BOZ	EP D	20 19 03.0
TUC	EP	20 19 23.0
EUR	IP	20 19 36.2
BCN	EP	20 19 38.5
	E	19 44.4
COL	IP	20 20 36.0
JUL 01		
EUR	IP	20 14 45.4
JUL 01		
FGU	EP	20 19 26.0
JUL 1		
H-20 20 56.6		
17.1S 069.1W		
h ABOUT 147KM		
SJP	EP	20 27 39.0
	I▷P	28 14.7
CSC	EP	20 29 50.0
ALQ	IP	20 31 08.5
	E	31 14.0
	E▷P	31 43.0
TUC	EP	20 31 11.8
	E▷P	31 46.2
RCD	EP	20 31 44.0
	E▷P	32 20.0
BCN	EP	20 31 44.2
	E▷P	32 18.5
FGU	EP	20 31 46.8
	I▷P	32 22.3
SLC	EP	20 31 53.9
EUR	IP	20 32 02.3
	I▷P	32 37.3
BOZ	IP D	20 32 14.0
	I▷P	32 50.2
HHM	E(P)	20 32 32.0
	E▷P	33 09.0
JUL 01		
HON	IP	20 44 00.0
	IS	44 40.0
KIP	IP	20 44 00.0
	ES	44 39.0
JUL 01		
ALQ	E(P)	20 59 55.0
JUL 01		
BUT	IP	21 02 12.4
JUL 01		
TUC	EP	21 49 27.2
JUL 01		
EUR	IP	22 24 29.7
	IS	24 40.7
JUL 1		
H-22 46 18.7		
31.1N 139.6E		
h ABOUT 147KM		
GUA	EP	22 50 21.5
COL	IP	22 55 36.5
BOZ	EP	22 58 14.0
EUR	IP	22 58 17.8
BCN	E(P)	22 58 32.5
FGU	EP	22 58 34.9
	E	59 02.2
JUL 1		
H-22 49 17.8		
14.2S 073.3W		
h ABOUT 080KM		
BHP	IP	22 54 29.0
SJP	IP	22 55 47.5
	I	56 11.4
	E	56 51.6
CSC	IP	22 57 51.0
WAS	I	22 58 28.0
	E	58 50.0
	E	59 00.0
	ES	23 05 52.0
ALQ	IP	22 59 06.0
TUC	IP	22 59 08.5
BCN	EP	22 59 43.0
	E	23 00 06.5
RCD	EP	22 59 45.0
FGU	IP	22 59 46.9
	I	23 00 14.1
EUR	IP	23 00 02.6
	I	00 25.8
BOZ	IP	23 00 16.5
	I	00 38.0
	E	00 49.9
COL	EP	23 02 39.0
	E	03 01.5
JUL 01		
BOZ	EP	22 57 22.0
JUL 01		
COL	EP	23 10 43.0
JUL 01		
FGU	E(P)	23 28 27.9
JUL 02		
COL	IP	01 02 04.5
JUL 2		
H-01 19 02.7		
60.1N 146.0W		
h ABOUT 014KM		
COL	IP	01 20 18.7
SIT	IP	01 20 37.0
HHM	EP	01 23 57.2
	E	25 17.2
BOZ	EP C	01 24 27.0
	I	24 32.0
	EPCP	28 05.2
UKI	E(P)	01 24 31.3
EUR	IP	01 24 54.0
	EPCP	28 07.0
FGU	EP	01 25 08.9
RCD	EP	01 25 12.0
	E	25 19.0
	E	25 28.0
BCN	EP	01 25 24.8
	I	25 30.0
	EPCP	28 16.4
	E	28 21.7
ALQ	IP	01 26 04.0
	E	26 09.0
	EPCP	28 29.0
	ESCP	32 15.0
TUC	IP C	01 26 07.0
	E	26 12.1
WAS	IP	01 27 34.0
CSC	EP	01 27 46.0
SJP	EP	01 30 13.5
	E	30 28.5
HON	E	01 33 08.0
	EL	35 50.0
JUL 02		
BUT	E(P)	02 01 03.0
	I	01 07.0
	EL	01 44.0
JUL 02		
TUC	EP	02 36 02.2
JUL 02		
BOZ	EP	02 48 19.0
	E	48 15.0
	I(S)	48 40.0
JUL 02		
BCN	IP	03 14 32.4
	IS	14 47.5
JUL 02		
BOZ	EP	04 15 39.9
JUL 2		
H-05 03 35.4		
01.2N 118.9E		
h ABOUT 133KM		
BOZ	EP'	05 22 06.0
	E	22 57.0
EUR	EP'	05 22 06.2
TUC	EP'	05 22 18.5
	E	22 25.0
ALQ	IP'	05 22 24.0
	E	22 29.0
CSC	EP'	05 22 51.0
JUL 02		
BOZ	E(P)	05 29 07.0
	I	29 12.0
	IL	29 58.0
JUL 2		
H-05 55 28.4		
39.1S 074.7W		
h ABOUT 033KM		
TUC	EP	06 07 28.2

Date and Station	Phase (GCT)
	h m s
ALQ IP	06 07 32.0
E	07 42.0
E	07 48.0
EUR EP	06 08 11.0
JUL 2	
H-06 35 18.3	
53.4N 167.8W	
h ABOUT 045KM	
COL EP	06 38 54.0
HHM EP	06 41 57.0
BOZ IP D	06 42 20.0
IPCP	44 44.0
EUR IP	06 42 29.9
IPCP	44 48.0
BCN EP	06 42 55.2
EPCP	44 57.0
RCD EP	06 43 07.0
TUC EP	06 43 34.0
EPCP	45 13.7
ALQ IP	06 43 40.0
E	43 50.0
EPCP	45 16.0
E	49 09.0
SJP I(P)	06 47 37.5
KIP ET	07 15 35.0
JUL 02	
GUA EP	06 56 39.0
IS	56 49.0
JUL 02	
COL EP	07 49 05.0
JUL 02	
BOZ EP	08 19 03.8
EUR EP	08 19 12.5
TUC EP	08 20 17.4
JUL 2	
H-09 09 39.8	
11.6S 074.4W	
h ABOUT 028KM	
ALQ IP	09 19 14.0
E	19 24.0
TUC EP	09 19 17.2
FGU EP	09 19 55.5
EUR EP	09 20 12.4
BOZ EP	09 20 26.2
JUL 2	
H-10 04 34.8	
47.7N 152.9E	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL EP	10 11 31.0
E	11 42.0
E	12 12.0
BOZ IP	10 14 50.0
EUR EP	10 15 00.5
TUC EP	10 15 49.6
ALQ E(P)	10 15 54.0
JUL 02	
FGU EP	10 58 37.0
I	59 39.6
JUL 02	
GUA EP	11 06 13.0
ES	06 36.5
JUL 2	
H-12 11 22.5	
01.0N 124.3E	
h ABOUT 160KM	
EUR EP'	12 29 42.6
JUL 02	
TUC EP	12 24 30.0
JUL 2	
H-15 09 13.5	
47.6N 128.7W	
h ABOUT 033KM	
UKI E(P)	15 11 29.1
HHM E(P)	15 11 34.0
BOZ EP	15 12 03.0
EL	15 00.0
EUR I(P)	15 12 13.1
BCN E(P)	15 13 00.5
RCD EP	15 13 25.0
COL EP	15 13 47.0
TUC E(P)	15 13 51.0
ALQ EP	15 13 57.0
JUL 02	
COL EP	15 20 05.0
JUL 2	
H-17 02 34.3	
47.4N 127.9W	
h ABOUT 033KM	
EUR EP	17 05 25.0
ALQ EP	17 07 10.0
JUL 2	
H-17 03 42.4	
47.7N 128.3W	
h ABOUT 033KM	
UKI EP	17 05 57.0
HHM E(P)	17 05 59.2

Date and Station	Phase (GCT)
	h m s
BOZ EP	17 06 27.5
ES	08 28.0
EUR IP	17 06 38.1
SLC EP	17 06 59.1
FGU EP	17 07 16.9
BCN EP	17 07 21.0
EL	13 06.5
GCA EP	17 07 32.1
RCD EP	17 07 49.0
COL EP	17 08 11.0
TUC EP	17 08 18.0
ALQ IP	17 08 23.0
E	08 34.0
WAS EP	17 10 56.0
HON E	17 16 14.0
EL	18 14.0
JUL 02	
COL EP	17 11 06.5
JUL 02	
FGU EP	17 21 40.4
JUL 2	
H-17 17 34.4	
47.7N 128.8W	
h ABOUT 014KM	
UKI EP	17 19 54.2
HHM E(P)	17 20 01.0
BOZ IP	17 20 26.5
EUR IP C	17 20 36.0
FGU EP	17 21 13.6
BCN EP	17 21 19.0
EL	27 04.5
GCA EP	17 21 30.7
RCD EP	17 21 48.0
COL EP	17 22 09.0
TUC EP	17 22 17.0
E	22 20.0
JUL 2	
H-18 54 40.4	
38.6N 138.1E	
h ABOUT 033KM	
COL IP	19 03 26.0
E	03 30.0
BOZ EP	19 06 22.7
I	06 26.0
EUR EP	19 06 31.2

Date and Station	Phase (GCT)
	h m s
ALQ EP	19 07 17.0
JUL 02	
BOZ E(P)	19 27 10.0
JUL 02	
FGU IP	21 54 35.3
JUL 2	
H-22 51 35.9	
39.0S 074.6W	
h ABOUT 033KM	
TUC EP	23 03 36.0
ALQ IP	23 03 40.0
E	03 48.0
FGU EP	23 04 13.2
EUR EP	23 04 19.0
JUL 02	
GCA IP	23 32 55.2
IS	33 04.9
JUL 02	
ALQ IP	23 37 13.0
E(S)	37 20.0
JUL 03	
FGU EP	00 08 32.1
JUL 03	
TUC EP	00 23 24.2
JUL 03	
HHM IP	02 00 36.2
IL	01 07.2
BOZ E(P)	02 01 11.0
E	01 17.5
IL	02 12.0
JUL 03	
ALQ E(P)	02 33 47.0
JUL 3	
H-02 33 50.0	
13.0N 090.9W	
h ABOUT 008KM	
TUC E(P)	02 39 27.8
JUL 03	
TUC E(P)	04 20 34.2
JUL 03	
EUR EP	04 29 41.0
JUL 3	
H-05 05 33.8	
19.4N 104.3W	
h ABOUT 102KM	
TUC E(P)	05 08 49.0
E	12 09.0
EL	13 07.0
ALQ EP	05 09 11.0
E	09 27.0
GCA E(P)	05 09 47.8

Date and Station	Phase	Phase (GCT) h m s
BCN	EP	05 09 49.6
	EL	16 00.9
FGU	EP	05 10 22.3
SLC	EP	05 10 23.2
EUR	IP	05 10 25.9
BOZ	EP	05 11 06.5
COL	EP	05 14 48.0
JUL 03		
BOZ	EP	06 47 31.7
EUR	EP	06 47 39.0
JUL 03		
COL	EP	06 55 16.0
JUL 03		
BOZ	EP	07 13 45.0
	EL	14 20.0
JUL 03		
FGU	E(P)	07 19 35.0
JUL 03		
SLC	EP	07 28 39.5
FGU	EP	07 28 40.5
	I	28 43.0
	IS	29 12.8
EUR	EP	07 29 21.0
	EL	30 35.5
RCD	E(P)	07 29 51.0
JUL 03		
GCA	EP	07 46 20.1
JUL 3		
H-08 16 33.7		
38.2N 138.9E		
h ABOUT 033KM		
COL	EP	08 25 21.0
BOZ	IP	08 28 15.0
EUR	IP	08 28 23.2
	IPP	28 28.2
BCN	EP	08 28 39.8
	EPP	28 45.0
RCD	EP	08 28 44.0
	EPP	28 50.0
TUC	EP	08 29 05.0
ALQ	IP	08 29 09.5
	EPP	29 15.0
JUL 03		
BOZ	EP	10 13 38.0
	EL	14 13.0
JUL 03		
ALQ	E(P)	10 38 03.0
JUL 03		
BUT	IP D	11 02 28.9
JUL 03		
BCN	IP C	13 13 45.9
	IS	13 49.3
JUL 03		
COL	EP	13 25 54.0
JUL 3		
H-14 10 33.0		
33.9N 074.5E		
h ABOUT 094KM		
COL	EP	14 22 12.0
JUL 03		
FGU	EP	15 02 22.3
	EL	02 52.5
JUL 03		
UKI	E(P)	17 19 39.0
JUL 03		
ALQ	E(P)	18 45 31.5
JUL 03		
ALQ	IP	18 50 30.0
	E	50 46.0
RCD	EP	18 52 38.0
JUL 3		
H-19 18 34.0		
11.0N 039.3E		
h ABOUT 060KM		
TUC	EP	19 37 38.5
JUL 03		
ALQ	EP	19 28 44.0
	E	29 54.0
JUL 3		
H-21 58 08.1		
21.9S 170.1E		
h ABOUT 045KM		
COL	E(P)	22 11 12.0
JUL 03		
BOZ	EP	22 11 17.0
JUL 03		
EUR	IP	22 38 54.5
JUL 03		
FGU	IP	22 55 50.2
	ES	56 13.2
JUL 3		
H-23 50 23.0		
18.2N 094.4W		
h ABOUT 010KM		
ALQ	IP	23 54 57.5
	E	55 04.0
TUC	IP C	23 55 03.0
FGU	EP	23 55 59.1
EUR	EP	23 56 20.0
BOZ	EP	23 56 42.0
JUL 04		
COL	IP	01 12 09.0
JUL 04		
GUA	E(P)	03 51 19.0
JUL 04		
GUA	EP	05 01 21.5
JUL 04		
GUA	IP	05 01 22.0
JUL 04		
GUA	IP	05 10 49.9
JUL 04		
ALQ	E(P)	05 57 21.0
JUL 4		
H-06 47 20.0		
51.8N 178.5W		
h ABOUT 033KM		
COL	EP	06 51 58.0
EUR	IP	06 55 27.3
TUC	EP	06 56 28.0
ALQ	E(P)	06 56 34.0
JUL 04		
COL	IP	06 59 16.4
JUL 04		
TUC	EP	09 25 55.5
JUL 4		
H-10 49 28.8		
11.7N 144.5E		
h ABOUT 033KM		
GUA	IP	10 49 59.0
	I	50 19.0
KIP	IP	10 59 04.5
HON	IP	10 59 05.0
COL	IP	11 00 37.8
EUR	IP D	11 02 26.7
	IPP	05 57.7
BOZ	IP D	11 02 32.8
	IPP	06 06.0
BCN	IP D	11 02 35.9
	E	03 20.8
	EPP	06 11.4
SLC	EP	11 02 39.5
FGU	IP	11 02 46.0
TUC	EP	11 02 54.5
RCD	EP	11 02 59.5
ALQ	IP	11 03 06.0
	EPP	07 03.0
	ES	13 28.0
JUL 04		
H-11 11 20.0		
42.2N 023.6E		
h ABOUT 010KM		
BOZ	EP	11 23 52.0
JUL 04		
TUC	E(P)	11 23 44.0
JUL 04		
TUC	EP	11 17 16.5
BCN	E(P)	11 17 53.5
	EL	19 57.0
ALQ	EP	11 18 19.0
JUL 4		
H-12 13 56.9		
15.5S 072.5W		
h ABOUT 148KM		
BHP	IP	12 19 11.0
SJP	EP	12 20 30.8
	I	20 53.7
CSC	IP	12 22 38.0
TUC	IP D	12 23 50.0
BCN	IP D	12 24 23.7
RCD	EP	12 24 26.0
	E	24 33.0
FGU	IP	12 24 27.5
SLC	E(P)	12 24 34.5
EUR	IP D	12 24 43.3
BOZ	IP D	12 24 52.0
COL	EP	12 27 15.0
JUL 4		
H-13 08 41.0		
58.9N 148.1W		
h ABOUT 033KM		
COL	IP	13 10 11.5
JUL 04		
COL	IP	13 16 43.2
JUL 04		
ALQ	IP	13 23 48.0
	E	23 54.5
JUL 4		
H-13 41 29.5		
43.6N 126.7W		
h ABOUT 033KM		
BOZ	EP	13 44 07.0
	E	44 14.9
ALQ	EP	13 45 37.0
JUL 04		
COL	EP	13 55 32.0

Date and Station	Phase (GCT)
	h m s
JUL 4	
H-13 58 45.9	
21.8S 065.1W	
h ABOUT 193KM	
ALQ IP	14 09 30.5
E	09 36.0
TUC EP	14 09 34.0
EUR EP	14 10 21.5
JUL 04	
COL EP	15 38 10.0
JUL 04	
COL EP	16 01 30.0
JUL 04	
BOZ EP	17 06 49.7
IL	07 23.0
FGU IP	17 06 52.3
IS	07 24.9
BUT E(P)	17 07 00.2
E(S)	07 43.0
JUL 04	
BUT E(P)	17 09 28.2
E(S)	10 07.2
JUL 04	
BOZ EP	17 24 17.0
IL	24 50.0
FGU EP	17 24 19.1
ES	24 52.8
BUT E(P)	17 24 27.7
JUL 04	
BCN E(P)	17 43 16.7
I	43 18.9
EL	44 04.5
TUC EP	17 43 17.8
EUR EP	17 44 08.0
JUL 04	
COL EP	18 30 52.0
JUL 04	
GUA EP	20 35 49.0
I	36 18.0
JUL 04	
ALQ EP	21 00 09.0
E	00 13.0
JUL 04	
ALQ EP	22 08 07.0
JUL 04	
TUC EP	23 04 39.0
JUL 04	
ALQ EP	23 20 42.0
JUL 04	
ALQ EP	23 21 33.0
E	21 39.0

Date and Station	Phase (GCT)
	h m s
JUL 04	
COL EP	23 51 45.0
JUL 05	
GUA EP	00 15 20.0
JUL 05	
GUA IP	00 17 58.1
JUL 5	
H-01 06 28.4	
1.2S 078.3W	
h ABOUT 112KM	
ALQ EP	01 14 32.0
E	14 50.0
TUC EP	01 14 36.0
BOZ EP	01 15 49.0
E	15 56.0
JUL 05	
TUC EP	02 16 56.0
ALQ E(P)	02 17 16.0
HHM EP	02 19 33.2
JUL 5	
H-03 14 33.3	
60.8N 144.9W	
h ABOUT 030KM	
COL IP	03 15 39.0
E	16 36.0
SIT EP	03 16 02.4
BUT EP D	03 19 46.2
BOZ IP	03 19 53.0
E	24 20.0
EUR IP D	03 20 21.9
ISCP	27 16.0
SLC E(P)	03 20 22.3
FGU IP	03 20 34.8
ESCP	27 20.8
BCN EP	03 20 53.8
E	21 00.1
ALQ EP	03 21 30.0
E	21 48.0
ESCP	27 43.0
TUC IP	03 21 35.2
E(S)	27 10.0
KIP ET	04 03 43.0
JUL 05	
EUR IP	04 31 46.6
IS	32 06.8
JUL 05	
TUC E(P)	05 58 09.0

Date and Station	Phase (GCT)
	h m s
JUL 5	
H-06 26 09.0	
19.9S 173.3W	
h ABOUT 452KM	
TUC EP	06 37 26.7
EUR EP	06 37 28.8
ALQ E(P)	06 37 50.5
COL EP	06 38 05.0
JUL 05	
GUA IP	07 24 25.0
IS	24 41.0
JUL 5	
H-08 01 59.3	
35.8N 140.6E	
h ABOUT 156KM	
BOZ EP	08 13 32.0
ALQ E(P)	08 14 23.0
E	14 34.0
JUL 05	
GUA EP	09 46 14.0
I	46 34.0
JUL 05	
BOZ E(P)	10 59 11.0
JUL 05	
BUT EP	11 14 13.2
JUL 05	
BUT E(P)	11 22 06.2
JUL 5	
H-12 36 27.5	
51.2N 179.1E	
h ABOUT 033KM	
COL IP	12 41 19.5
BUT E(P)	12 44 30.2
BOZ EP	12 44 38.9
EUR IP	12 44 47.9
E	45 42.9
I	45 45.4
BCN E(P)	12 45 10.0
E	45 16.8
TUC EP	12 45 46.0
ALQ E(P)	12 45 58.5
JUL 05	
COL IP	13 14 28.5
JUL 05	
EUR EP	13 37 55.2
EL	39 00.7
JUL 05	
COL IP	15 25 06.5

Date and Station	Phase (GCT)
	h m s
JUL 5	
H-17 57 30.9	
11.9N 142.4E	
h ABOUT 020KM	
GUA IP	17 58 19.0
EUR EP	18 10 36.8
BUT EP	18 10 38.3
BOZ EP	18 10 42.0
BCN EP	18 10 46.5
E▸P	10 52.5
TUC EP	18 11 05.2
E▸P	11 10.4
JUL 5	
H-17 58 59.7	
60.2N 146.2W	
h ABOUT 027KM	
COL IP	18 00 11.0
BUT EP	18 04 17.1
BOZ IP	18 04 23.3
EUR IP C	18 04 50.8
EPCP	08 03.5
BCN EP	18 05 22.0
EPCP	08 12.5
ALQ EP	18 06 00.0
E	06 14.0
EPCP	08 24.5
TUC EP	18 06 04.0
EPCP	08 26.0
JUL 05	
EUR IP	18 49 41.6
JUL 5	
H-19 07 58.2	
26.2N 110.2W	
h ABOUT 033KM	
TUC EP	19 09 26.0
ALQ EP	19 10 11.0
E	10 23.0
BCN EP D	19 10 29.3
EL	13 42.0
EUR IP D	19 11 18.1
SLC EP	19 11 24.8
UKI EP	19 11 55.5
BOZ IP D	19 12 24.0
I(S)	16 00.0
BUT EP	19 12 30.3
CHK E(P)	19 13 13.6
E	17 38.4
EL	20 14.4

Date and Station	Phase	Phase (GCT) h m s
CSC	EP	19 13 36.0
WAS	EP	19 14 12.0
BHP	IP	19 14 40.0
SJP	EP C	19 15 41.6
	I	15 44.6
	E	17 27.0
	ES	22 04.0
	E	25 21.0
KIP	EP	19 16 03.0
HON	EP	19 16 04.0
	E(S)	22 40.0
COL	EP	19 16 15.0
JUL 05		
ALQ	E(P)	20 59 14.0
	E	59 49.0
COL	IP	20 59 17.7
JUL 05		
TUC	E(P)	21 12 56.4
	E	15 40.2
ALQ	E(P)	21 14 39.0
	E	16 33.0
JUL 5		
H-22 14 55.8		
10.0S 075.0W		
h ABOUT 093KM		
ALQ	E(P)	22 24 11.0
	E	24 40.0
JUL 5		
H-22 37 02.5		
44.6N 148.7E		
h ABOUT 033KM		
COL	EP	22 44 33.0
EUR	EP	22 47 53.4
ALQ	EP	22 48 46.0
JUL 05		
BHP	EP	23 15 12.0
JUL 5		
H-23 36 01.5		
44.8N 149.6E		
h ABOUT 054KM		
COL	IP	23 43 26.9
HON	EP	23 44 42.0
	I(S)	51 49.0
KIP	EP	23 44 42.0
BUT	EP	23 46 34.3
BOZ	IP C	23 46 37.0
	I	46 50.0
EUR	IP	23 46 46.3
SLC	EP	23 46 58.0
BCN	E(P)	23 47 04.0
	E	47 06.5
TUC	EP	23 47 35.6
ALQ	EP	23 47 39.0
	E	47 47.0
WAS	E(P)	23 48 44.0
CSC	EP	23 48 55.0
	E	49 04.0
JUL 05		
ALQ	E(P)	23 37 57.0
EUR	EP	23 38 41.3
JUL 5		
H-23 39 10.3		
44.7N 149.6E		
h ABOUT 048KM		
COL	IP	23 46 37.0
BOZ	EP	23 49 47.0
	I	50 00.0
BCN	IP	23 50 15.0
TUC	EP	23 50 45.5
ALQ	EP	23 50 48.0
JUL 05		
PHI	EP	23 59 15.0
JUL 06		
BCN	EP	00 15 13.0
JUL 06		
TUC	E(P)	00 49 05.0
JUL 6		
H-01 12 39.1		
26.6N 110.0W		
h ABOUT 033KM		
TUC	EP	01 14 02.3
ALQ	EP	01 14 48.0
BCN	EP	01 15 07.3
	EL	18 24.0
EUR	EP	01 15 55.0
BOZ	EP	01 17 00.0
JUL 6		
H-01 51 18.6		
26.4N 110.4W		
h ABOUT 033KM		
TUC	EP	01 52 45.0
	E	54 39.0
ALQ	E(P)	01 53 31.0
JUL 06		
ALQ	E(P)	01 56 07.0
JUL 06		
GUA	IP	01 57 31.5
JUL 06		
BOZ	IP	02 01 35.5
JUL 6		
H-02 08 19.2		
26.5N 110.2W		
h ABOUT 033KM		
TUC	E(P)	02 09 43.0
	I	09 44.5
ALQ	EP	02 10 31.0
BCN	EP	02 10 48.4
EUR	IP D	02 11 36.8
SLC	EP	02 11 42.8
BOZ	EP	02 12 42.0
BUT	EP	02 12 47.7
COL	EP	02 16 34.0
JUL 6		
H-02 10 42.1		
26.2N 110.2W		
h ABOUT 033KM		
BCN	EP	02 13 13.5
EUR	IP	02 14 01.6
BOZ	EP	02 15 07.5
JUL 6		
H-02 14 36.0		
26.2N 110.4W		
h ABOUT 033KM		
BCN	IP	02 17 07.0
	IL	20 16.7
EUR	EP	02 17 55.7
SLC	EP	02 17 59.2
	I	18 05.2
UKI	EP	02 18 32.0
BOZ	E(P)	02 19 02.5
BUT	IP	02 19 05.7
CHK	EP	02 19 55.1
CSC	E(P)	02 20 08.0
BHP	EP	02 21 20.0
SIT	E(P)	02 21 33.6
SJP	EP	02 22 19.0
HON	EP	02 22 38.0
	E(S)	29 12.0
KIP	EP	02 22 38.0
COL	EP	02 22 51.0
JUL 06		
H-02 25 36.3		
26.2N 110.1W		
h ABOUT 033KM		
SJP	EP	02 33 23.0
JUL 06		
BCN	IP	02 41 49.3
JUL 06		
BCN	EP	02 53 36.1
	EL	56 38.0
JUL 6		
H-03 06 09.6		
26.5N 110.3W		
h ABOUT 033KM		
TUC	E(P)	03 07 32.0
EUR	IP	03 09 27.7
JUL 06		
COL	EP	03 12 47.0
JUL 06		
EUR	IP	03 16 24.0
JUL 06		
TUC	E(P)	03 20 01.0
JUL 6		
H-03 20 59.4		
56.7N 152.3W		
h ABOUT 033KM		
COL	EP	03 23 02.0
EUR	EP	03 27 00.3
KIP	ET	04 04 44.0
JUL 06		
TUC	EP	03 32 49.0
EUR	E(P)	03 34 49.6
JUL 06		
KIP	ET	03 54 37.0
JUL 06		
TUC	E(P)	04 25 20.0
JUL 06		
GUA	E(P)	04 26 06.0
JUL 06		
TUC	E(P)	04 47 52.5
JUL 06		
ALQ	E(P)	04 51 17.0
JUL 06		
TUC	E(P)	05 53 09.5
JUL 6		
H-05 53 43.7		
14.1N 091.2W		
h ABOUT 119KM		
ALQ	IP	05 58 58.0

Date and Station	Phase (GCT)
	h m s
EUR EP	06 00 14.0
I	00 29.2
JUL 06	
ALQ E(P)	05 56 25.0
JUL 06	
ALQ E(P)	06 07 19.0
JUL 06	
ALQ E(P)	06 29 14.0
JUL 06	
ALQ IP	07 16 14.0
JUL 6	
H-07 17 46.2	
26.1N 110.8W	
h ABOUT 033KM	
TUC EP	07 19 16.5
ALQ E(P)	07 20 06.0
JUL 6	
H-07 22 10.3	
18.2N 100.4	
h ABOUT 082KM	
TUC IP C	07 26 03.0
ALQ IP	07 26 12.0
BCN IP D	07 26 58.0
EL	33 15.0
BHP IP	07 27 02.0
CSC IP	07 27 13.0
ES	31 18.0
SLC IP	07 27 23.7
IS	31 41.2
IL	34 17.2
EUR IP D	07 27 29.1
CHK EP	07 27 38.2
BOZ IP D	07 28 03.0
UKI IP	07 28 03.1
WAS IP	07 28 04.0
E	28 38.0
BUT IP	07 28 09.7
I	29 34.2
HHM EP	07 28 29.2
SJP EP D	07 28 34.7
I(pP)	28 51.0
I(sP)	28 59.6
ES	33 52.0
ESCP	34 31.0
SIT EP	07 30 31.5
EPP	32 28.0
ES	37 16.0
KIP IP	07 31 27.1

Date and Station	Phase (GCT)
	h m s
HON IP	07 31 27.9
E(S)	39 12.0
COL IP	07 31 43.0
GUA ESP	07 50 14.0
JUL 06	
BCN EP	08 00 51.5
E(L)	10 36.0
JUL 06	
TUC E(P)	08 12 15.8
JUL 06	
BCN EP	08 46 30.0
JUL 6	
H-09 31 56.2	
13.5N 090.4W	
h ABOUT 033KM	
ALQ E(P)	09 37 25.0
TUC EP	09 37 32.5
BCN E(P)	09 38 16.5
EUR EP	09 38 40.7
JUL 6	
H-09 47 26.0	
18.0S 174.7W	
h ABOUT 080KM	
BCN EP	09 59 18.3
E	59 27.5
TUC EP	09 59 23.2
EUR EP	09 59 23.9
COL IP	09 59 54.2
BOZ EP	09 59 55.0
JUL 06	
COL EP	09 54 38.0
JUL 6	
H-10 06 02.3	
06.3S 154.7E	
h ABOUT 049KM	
GUA EP	10 10 53.6
COL EP	10 18 19.0
EUR IP	10 19 14.4
IpP	19 28.6
BCN EP	10 19 17.3
EpP	19 32.2
BOZ EP	10 19 29.9
SJP EP'	10 25 23.5
JUL 6	
H-10 13 45.2	
37.1N 071.4E	
h ABOUT 100KM	
COL EP	10 25 09.8

Date and Station	Phase (GCT)
	h m s
SIT E(P)	10 26 03.3
EpP	26 29.5
BUT EP	10 27 08.6
BOZ IP C	10 27 10.5
E	30 43.0
EUR EP	10 27 37.4
BCN E(P)	10 27 54.5
JUL 06	
TUC E(P)	10 22 16.0
JUL 6	
H-10 24 33.8	
18.3N 100.3W	
h ABOUT 111KM	
TUC EP	10 28 23.0
ALQ E(P)	10 28 31.0
BCN EP	10 29 17.0
JUL 6	
H-10 38 41.0	
18.7N 100.5W	
h ABOUT 108KM	
TUC EP	10 42 26.0
E	42 29.0
EL	47 25.0
ALQ EP	10 42 31.0
BCN EP	10 43 21.7
CSC EP	10 43 39.0
SLC EP	10 43 48.2
EUR EP	10 43 48.6
E	43 53.0
BOZ EP	10 44 27.0
BUT EP	10 44 32.1
SJP EP	10 45 06.0
COL EP	10 48 08.0
JUL 6	
H-11 09 38.3	
18.4N 100.3W	
h ABOUT 042KM	
ALQ EP	11 13 41.0
BCN E(P)	11 14 27.3
EUR EP	11 15 02.0
JUL 06	
TUC EP	12 20 29.2
JUL 06	
ALQ E(P)	12 28 26.0

Date and Station	Phase (GCT)
	h m s
JUL 6	
H-12 34 35.8	
17.8S 167.5E	
h ABOUT 033KM	
EUR E(P)	12 47 45.0
E	47 50.8
JUL 6	
H-14 01 57.3	
26.9N 110.1W	
h ABOUT 033KM	
TUC EP	14 03 16.4
ALQ EP	14 04 05.0
BCN EP	14 04 21.5
EL	07 51.0
EUR EP	14 05 09.5
BOZ E(P)	14 06 17.0
JUL 6	
H-14 06 32.6	
24.2S 069.7W	
h ABOUT 128KM	
ALQ EP	14 17 23.0
TUC EP	14 17 23.5
BCN EP	14 17 53.2
EUR EP	14 18 11.6
BOZ EP	14 18 25.0
JUL 6	
H-14 19 46.3	
06.9S 129.6E	
h ABOUT 100KM	
GUA EP	14 25 06.8
KIP E(P)	14 31 27.0
COL EP	14 32 48.0
EUR EP'	14 38 14.7
EPKKP	49 01.6
BOZ EP'	14 38 17.2
E	38 32.0
EPKKP	48 23.0
BCN EP'	14 38 18.0
EPKKP	49 02.3
TUC EP'	14 38 25.0
ALQ EP'	14 38 31.0
CSC EP'	14 39 08.0
JUL 06	
GUA IP	14 29 07.0
JUL 06	
COL EP	14 44 40.0
JUL 06	
TUC E(P)	15 43 40.0

Date and Station	Phase	(GCT) h m s
JUL 06		
ALQ	E(P)	15 46 42.0
JUL 06		
BOZ	EP	15 56 47.5
JUL 06		
BOZ	IP	16 29 59.0
	ES	30 02.0
JUL 06		
BOZ	IP	16 40 20.7
JUL 06		
SIT	E(P)	17 25 49.2
JUL 06		
ALQ	EP	18 17 32.0
GCA	EP	18 17 37.8
	IL	18 11.0
FGU	EP	18 17 59.5
BOZ	EP	18 18 14.0
	I	18 26.0
EUR	E(P)	18 18 57.0
	E	19 08.8
	EL	20 20.0
JUL 6		
H-19 21 12.7		
18.7N 100.3W		
h ABOUT 081KM		
TUC	FP	19 25 01.5
ALQ	EP	19 25 10.0
FGU	FP	19 26 16.6
JUL 06		
GCA	EP	19 28 00.0
	ES	28 18.0
EUR	EP	19 28 25.0
	EL	29 12.0
JUL 6		
H-19 50 42.1		
21.2S 173.8E		
h ABOUT 022KM		
EUR	IP	20 03 37.6
BCN	E(P)	20 03 39.5
TUC	E(P)	20 03 44.4
GCA	EP	20 03 47.0
ALQ	E(P)	20 04 00.0
	EPP	07 42.0
BOZ	E(P)	20 04 05.0
	EPP	07 48.0
HON	E	20 07 04.0
	EL	14 00.0

Date and Station	Phase	(GCT) h m s
JUL 6		
H-20 07 28.1		
19.1N 100.6W		
h ABOUT 105KM		
TUC	E(P)	20 11 10.0
ALQ	EP	20 11 18.0
	E	11 44.0
JUL 06		
ALQ	E(P)	21 14 14.0
	E	14 50.0
JUL 06		
ALQ	E(P)	21 17 16.0
JUL 06		
BOZ	EP	22 01 51.0
	I	02 12.5
JUL 06		
FGU	EP	22 18 12.7
BOZ	EP	22 19 27.5
	I	20 01.0
JUL 06		
EUR	IP	22 26 05.0
	IS	26 24.0
JUL 06		
EUR	EP	23 15 11.8
JUL 06		
HHM	E(P)	23 46 01.0
	E	46 23.2
	E	54 39.2
JUL 06		
ALQ	E(P)	23 56 53.0
JUL 7		
H-01 28 29.9		
44.4N 149.4E		
h ABOUT 030KM		
COL	EP	01 36 00.6
BOZ	E(P)	01 39 05.0
EUR	E(P)	01 39 20.0
	E	39 25.0
TUC	EP	01 40 07.0
ALQ	EP	01 40 12.0
JUL 07		
SLC	EP	01 34 54.8
JUL 07		
ALQ	EP	03 17 11.0
JUL 07		
TUC	EP	03 31 30.0
	EL	33 15.0
BCN	E(P)	03 32 43.5
	EL	35 11.0
EUR	EP	03 33 25.8
BOZ	E(P)	03 34 25.5

Date and Station	Phase	(GCT) h m s
JUL 07		
BOZ	EP	03 46 14.5
	IS	46 31.5
JUL 07		
TUC	EP	03 54 16.6
JUL 7		
H-04 05 26.7		
73.7N 008.6E		
h ABOUT 033KM		
COL	EP	04 13 06.3
FGU	EP	04 15 19.4
JUL 07		
SLC	EP	04 51 15.7
JUL 7		
H-05 24 19.5		
18.2N 100.2W		
h ABOUT 100KM		
TUC	EP	05 28 12.2
ALQ	EP	05 28 19.0
FGU	EP	05 29 26.7
EUR	EP	05 29 37.7
JUL 7		
H-05 28 42.1		
15.6N 093.9W		
h ABOUT 033KM		
TUC	EP	05 33 42.0
JUL 07		
FGU	EP	05 29 41.7
JUL 07		
BOZ	EP	05 43 09.0
JUL 07		
TUC	EP	05 54 23.0
JUL 07		
BCN	EP	06 40 02.0
	IL	40 33.3
EUR	IP	06 40 21.4
	IL	41 11.9
JUL 7		
H-06 44 49.2		
8.8S 110.7E		
h ABOUT 060KM		
EUR	EP'	07 03 53.3
BCN	ESKP	07 07 16.0
FGU	ISKP	07 07 31.0
TUC	ESKP	07 07 31.2
FGU	ESKP	07 07 35.8
ALQ	ESKP	07 07 38.0

Date and Station	Phase	(GCT) h m s
JUL 07		
BOZ	IP	07 12 43.5
	I	13 06.0
JUL 07		
SLC	EP	07 24 22.6
JUL 7		
H-07 39 04.2		
23.6S 179.9W		
h ABOUT 462KM		
HON	IP	07 47 13.3
KIP	IP	07 47 13.7
GUA	EP	07 47 19.0
UKI	E(P)	07 50 36.1
BCN	IP C	07 50 53.5
	E	51 03.0
EUR	IP C	07 50 58.0
TUC	IP	07 50 58.0
	E	51 02.8
	EPKKP	08 08 51.2
GCA	EP	07 51 06.7
SLC	IP	07 51 14.7
ALQ	IP	07 51 17.0
FGU	IP	07 51 21.7
	I	51 36.4
BOZ	IP C	07 51 26.5
	EPP	53 11.0
JUL 07		
BOZ	EP	08 16 36.0
	E	16 49.0
JUL 07		
COL	IP	09 44 01.0
BOZ	EP	09 47 09.5
EUR	EP	09 47 20.3
JUL 7		
H-09 59 19.5		
10.8N 086.6W		
h ABOUT 033KM		
ALQ	EP	10 05 28.0
FGU	EP	10 06 19.5
JUL 07		
EUR	EP	11 18 57.9
	IL	19 46.4
JUL 07		
BOZ	EP	12 21 18.0
	EL	21 50.0
JUL 07		
BOZ	E(P)	13 12 20.0
	E	14 32.5

Date and Station	Phase (GCT)
	h m s
JUL 07	
BOZ EP	13 44 28.5
JUL 7	
H-13 44 40.3	
43.4N 127.2W	
h ABOUT 007KM	
UKI EP	13 46 01.5
EUR IP	13 46 59.2
HHM EP	13 47 11.3
BUT IP C	13 47 16.5
BOZ IP C	13 47 24.5
I	47 32.0
SLC EP	13 47 30.4
BCN EP	13 47 39.0
EL	51 42.0
FGU IP	13 47 52.9
GCA EP	13 47 59.0
TUC IP	13 48 44.0
EL	51 55.0
ALQ IP	13 48 56.0
CSC EP	13 51 51.0
JUL 7	
H-16 28 42.9	
11.2S 163.2E	
h ABOUT 013KM	
EUR IP	16 41 44.5
BOZ IP	16 42 00.0
HON ES	16 45 04.0
EL	51 38.0
JUL 07	
BOZ EP	16 58 23.0
JUL 07	
GUA EP	17 37 25.0
JUL 07	
TUC E(P)	17 46 06.0
JUL 07	
GCA E(P)	19 07 49.1
JUL 7	
H-19 49 16.0	
16.1S 174.7W	
h ABOUT 033KM	
TUC EP	20 01 11.8
GCA EP	20 01 21.9
ALQ EP	20 01 35.0
BOZ EP	20 01 42.0

Date and Station	Phase (GCT)
	h m s
JUL 7	
H-21 12 33.6	
35.8N 073.4E	
h ABOUT 019KM	
COL IP	21 24 13.2
JUL 07	
GCA IP	21 16 45.1
IS	17 13.1
FGU EP	21 16 51.6
I	16 52.4
IS	17 20.8
EUR IP	21 17 15.0
IL	18 14.0
JUL 07	
ALQ EP	21 21 29.0
JUL 07	
ALQ E(P)	21 29 56.0
JUL 07	
FGU IP	21 32 10.9
I	32 17.6
JUL 07	
BOZ EP	22 03 33.0
JUL 7	
H-22 14 01.8	
15.2N 093.2W	
h ABOUT 090KM	
ALQ EP	22 19 00.0
E	19 12.0
TUC EP	22 19 05.2
FGU EP	22 19 56.9
E	20 10.1
BOZ IP	22 20 38.0
COL EP	22 24 11.0
JUL 07	
EUR IP	22 25 31.6
IS	25 44.8
JUL 07	
ALQ EP	22 33 40.0
JUL 08	
ALQ EP	00 44 50.0
JUL 8	
H-01 35 02.5	
15.3S 173.1W	
h ABOUT 033KM	
EUR IP	01 46 49.6
GCA EP	01 47 00.2
ALQ EP	01 47 14.0
E	47 25.0
FGU EP	01 47 14.7
E	47 27.4

Date and Station	Phase (GCT)
	h m s
BOZ EP	01 47 21.8
E	47 25.0
COL IP	01 47 23.4
JUL 08	
ALQ E(P)	03 07 43.0
JUL 08	
GUA E(P)	03 13 07.2
JUL 08	
EUR IP	03 16 08.0
IL	16 37.0
JUL 08	
FGU EP	03 17 43.2
JUL 08	
TUC E(P)	04 00 27.5
JUL 8	
H-05 55 42.2	
38.4N 118.4W	
h ABOUT 010KM	
EUR IP	05 56 18.6
BCN IP C	05 56 42.0
I	56 53.2
IS	57 21.0
IL	57 41.3
FGU IP	05 57 35.5
TUC EP	05 57 51.0
BOZ E(P)	05 57 53.0
EL	06 00 22.0
JUL 08	
EUR EP	06 16 42.3
JUL 08	
TUC E(P)	06 23 38.0
E	23 46.5
JUL 8	
H-07 07 16.0	
19.2N 121.1E	
h ABOUT 037KM	
COL EP	07 18 46.0
JUL 8	
H-07 45 48.6	
03.2N 128.4E	
h ABOUT 050KM	
GUA IP	07 50 14.0
KIP EP	07 57 17.0
COL EP	07 58 17.0
BOZ EP'	08 04 13.0
EUR EP'	08 04 13.8
BCN EP'	08 04 19.4
ALQ EP'	08 04 28.0
WAS EP'	08 04 53.0

Date and Station	Phase (GCT)
	h m s
HON ES	08 06 50.0
EL	16 20.0
JUL 08	
BCN EP	07 46 52.0
E	47 03.8
JUL 08	
GUA EP	07 53 52.0
JUL 08	
BOZ EP	08 16 24.5
E	16 46.0
JUL 08	
BCN EP	08 16 47.5
JUL 08	
UKI EP	09 50 16.0
JUL 8	
H-10 12 22.0	
51.4N 179.5E	
h ABOUT 033KM	
COL EP	10 17 10.0
BOZ IP	10 20 31.1
EUR IP	10 20 39.7
JUL 08	
BOZ EP	10 41 40.0
E	41 52.0
COL EP	10 41 43.0
EUR EP	10 41 59.0
JUL 8	
H-11 49 23.7	
06.4S 154.8E	
h ABOUT 073KM	
HON EP	11 58 41.0
ES	12 06 10.0
COL IP	12 01 38.4
EUR IP C	12 03 33.0
I	03 47.0
BCN EP	12 02 36.0
E	02 50.6
BOZ EP	12 02 47.5
GCA EP	12 02 49.9
FGU EP	12 02 54.4
ALQ EP	12 03 07.0
JUL 8	
H-11 55 39.1	
05.5S 129.8E	
h ABOUT 165KM	
GUA IP	12 00 42.0
ES	04 45.0
KIP IP	12 07 08.5
IS	16 38.0

Date and Station	Phase (GCT) h m s
HON IP	12 07 08.8
EsP	08 04.0
IS	16 38.0
COL EP	12 08 27.0
E	18 39.0
BUT E(P)	12 09 56.0
EPP	14 53.1
ISKS	20 25.1
EUR IP C	12 10 01.7
E	13 09.0
IP'	13 57.0
IPP	14 38.0
ISKP	17 12.8
IPKKP	24 49.0
EP'P'	33 55.0
P'P'P'	52 42.0
BOZ EpP	12 10 09.0
IP'	13 59.9
IpPP	14 49.0
IPPP	16 42.0
ESKKS	20 23.0
BCN EP	12 10 11.2
EP'	14 00.0
EPP	14 47.2
ISKP	17 17.7
EPKKP	24 44.5
SLC EP	12 10 14.9
FGU EP	12 10 20.9
IP'	14 04.6
GCA EP	12 10 23.5
IP'	14 04.4
ALQ E(P)	12 10 41.0
IP'	14 13.0
WAS EP'	12 14 40.0
I	14 52.0
I	15 40.0
ESKP	18 20.0
CSC IP'	12 14 50.0
I	18 07.0
BHP IP'D	12 15 07.5
IS	15 17.0
SJP IP'	12 15 20.0
IpP'	16 01.0
I	17 25.0
JUL 08	
ALQ E(P)	12 07 17.0
JUL 08	
BOZ E(P)	12 52 49.0
JUL 08	
BCN IP	13 02 40.8
JUL 08	
COL EP	14 30 26.0

Date and Station	Phase (GCT) h m s
JUL 8	
H-15 24 08.3	
18.0S 178.5W	
h ABOUT 558KM	
EUR EP	15 35 30.0
ALQ E(P)	15 35 51.5
BOZ EP	15 35 57.0
JUL 08	
ALQ E(P)	18 37 56.5
JUL 08	
BOZ EP	19 01 17.5
JUL 08	
ALQ EP	19 17 06.0
JUL 08	
BOZ E(P)	19 19 12.0
JUL 08	
FGU IP	19 51 46.5
JUL 08	
TUC EP	20 10 30.5
JUL 08	
EUR IP	22 28 01.9
IS	28 13.9
JUL 08	
BHP IP	23 44 15.0
JUL 8	
H-23 50 45.2	
60.9N 142.8W	
h ABOUT 033KM	
COL IP	23 51 54.5
EUR IP	23 56 27.2
TUC EP	23 57 39.7
E	57 44.0
JUL 9	
H-00 21 17.7	
59.8N 150.7W	
h ABOUT 015KM	
COL IP	00 22 39.5
EUR IP	00 27 25.7
FGU EP	00 27 42.2
TUC EP	00 28 37.6
JUL 09	
TUC E(P)	01 27 28.4
JUL 09	
TUC EP	03 19 07.5
JUL 09	
BOZ EP	03 32 08.2
EL	32 40.0
FGU EP	03 32 11.9
EL	32 46.9

Date and Station	Phase (GCT) h m s
JUL 9	
H-03 38 10.8	
29.3N 052.7E	
h ABOUT 055KM	
COL EP	03 50 40.0
JUL 09	
FGU IP	03 43 26.1
JUL 09	
SLC EP	04 50 43.2
JUL 09	
TUC EP	05 10 49.7
EUR EP	05 11 34.5
BOZ EP	05 12 07.5
JUL 9	
H-05 47 09.2	
15.4N 119.8E	
h ABOUT 053KM	
GUA E(P)	05 52 24.0
COL EP	05 58 58.0
SIT E(P)	05 59 42.6
BOZ E(P)	06 01 08.0
EUR EP	06 01 14.6
FGU EP'	06 05 15.1
TUC EP'	06 05 43.2
ALQ IP'	06 05 45.0
E	05 49.0
SJP EP'	06 06 47.2
E	06 58.2
JUL 09	
ALQ E(P)	06 14 23.0
E	16 40.0
E	19 05.0
JUL 09	
TUC E(P)	06 16 35.0
JUL 09	
GCA IP	06 32 02.0
JUL 09	
ALQ EP	07 31 37.0
E	31 46.0
E	32 11.0
JUL 09	
BHP IP	08 44 58.5
ALQ EP	08 50 56.0
JUL 09	
ALQ E(P)	10 33 14.0
JUL 09	
BOZ IP	10 59 28.9
IS	59 40.0

Date and Station	Phase (GCT) h m s
JUL 09	
HHM E(P)	11 00 24.0
JUL 9	
H-11 22 05.4	
23.3S 175.7W	
h ABOUT 043KM	
KIP EP	11 30 38.0
HON IP	11 30 39.8
GUA IP	11 31 23.0
UKI E(P)	11 34 10.0
BCN EP	11 34 24.0
IpP	34 35.8
EPKKP	52 43.0
E	54 41.0
P'P'	12 00 55.8
P'P'	01 05.8
EUR IP	11 34 30.0
I	34 31.8
IpP	34 40.0
ALQ EP	11 34 48.0
E	34 58.0
GCA EP	11 34 37.3
SIT E(P)	11 34 48.8
SLC EP	11 34 48.9
I	35 03.2
FGU EP	11 34 56.0
BUT E(P)	11 34 58.0
HHM E(P)	11 34 59.0
E	34 02.9
BOZ EP	11 34 59.0
I	35 02.0
IpP	35 11.0
IS	45 32.0
COL IP	11 35 01.8
IS	45 57.0
BHP EpP	11 35 30.0
JUL 09	
BOZ IP	11 30 57.0
IS	31 18.0
JUL 09	
ALQ E(P)	11 52 32.0
JUL 9	
H-12 02 11.9	
34.2N 140.9E	
h ABOUT 049KM	
GUA EP	12 06 52.0
COL EP	12 11 16.0
HHM E(P)	12 13 44.0
BUT E(P)	12 13 56.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	12 14 01.7
EUR IP	12 14 07.3
FGU EP	12 14 24.0
E	14 32.9
BCN EP	12 14 25.4
GCA EP	12 14 31.5
TUC EP	12 14 46.8
ALQ IP	12 14 52.0
E	15 00.0
JUL 9	
H-13 58 34.7	
17.3S 064.6W	
h ABOUT 033KM	
ALQ EP	14 09 14.0
E	14 32.0
TUC EP	14 09 20.0
EUR EP	14 10 11.9
BOZ E(P)	14 10 16.0
JUL 09	
BOZ EP	15 31 07.0
ALQ EP	15 32 03.0
JUL 9	
H-16 39 49.3	
15.5S 167.6E	
h ABOUT 121KM	
GUA IP	16 46 45.5
IS	52 20.0
KIP EP	16 48 32.0
HON EP C	16 48 32.0
IS	55 32.0
E	56 34.0
E	58 21.0
EL	17 00 14.0
KIP EP	16 48 32.0
IS	55 34.0
E	58 16.0
EL	17 00 10.0
UKI EP	16 52 08.0
EPP	55 28.5
COL IP	16 52 19.2
I(S)	17 02 36.0
SIT IP	16 52 20.0
IS	17 02 36.0
BCN IP C	16 52 33.4
I▸P	53 05.0
IPP	56 07.0
ESP	17 04 09.0
EPKKP	10 08.5
P'P'	18 15.8
P'P'P'	39 08.5

Date and Station	Phase (GCT)
	h m s
EUR IP C	16 52 34.5
I▸P	53 05.4
IPP	56 08.5
I▸PP	56 39.0
IS	17 03 15.5
TUC IP	16 52 42.7
E▸P	53 15.2
EPP	56 23.5
EPKKP	17 10 06.0
EP'P'	18 16.0
GCA EP	16 52 47.9
BUT E(P)	16 52 52.0
EPP	56 40.0
SLC IP	16 52 52.3
IPP	56 33.3
EPPP	58 36.3
IPKKP	17 10 02.3
IP'P'	18 12.8
HHM EP	16 52 55.1
EP'P'	17 18 13.1
BOZ EP	16 52 57.0
E(S)	17 03 00.0
ALQ EP	16 53 02.5
BHP IP'	16 58 15.0
CSC EP'	16 58 19.0
PHI EP'	16 58 27.5
SJP P'	16 58 42.0
JUL 09	
COL EP	17 18 04.0
JUL 9	
H-18 45 32.9	
49.4N 153.5E	
h ABOUT 140KM	
COL IP	18 52 04.0
SIT E(P)	18 53 08.4
BUT E(P)	18 55 21.0
BOZ IP D	18 55 26.5
E▸P	56 03.5
EPP	57 36.0
EUR IP	18 55 38.5
I▸P	56 18.5
BCN IP C	18 55 58.5
E▸P	56 38.0
GCA EP	18 56 06.4
TUC EP	18 56 29.0
E	56 34.2
I▸P	57 09.2
ALQ IP	18 56 33.0
E	56 39.0
E▸P	57 14.0

Date and Station	Phase (GCT)
	h m s
JUL 09	
ALQ E(P)	20 31 08.0
JUL 9	
H-21 43 46.3	
01.8S 141.6E	
h ABOUT 033KM	
GUA EP	21 47 25.0
COL EP	21 56 14.0
SJP IP'	22 03 39.7
JUL 9	
H-21 56 48.4	
44.2N 149.5E	
h ABOUT 033KM	
COL EP	22 04 19.2
EUR EP	22 07 37.5
JUL 09	
TUC EP	23 52 24.7
JUL 10	
H-01 17 53.3	
0.6S 019.8W	
h ABOUT 033KM	
ALQ IP	01 30 40.0
E	30 49.0
JUL 10	
ALQ E(P)	01 47 26.0
JUL 10	
ALQ E(P)	01 49 39.0
JUL 10	
ALQ E(P)	01 56 10.0
JUL 10	
ALQ EP	02 03 06.0
JUL 10	
ALQ EP	02 09 22.0
JUL 10	
ALQ EP	02 26 34.0
E	26 42.0
JUL 10	
ALQ EP	04 18 38.0
JUL 10	
TUC E(P)	04 34 40.0
ALQ EP	04 34 49.0
JUL 10	
EUR EP	05 25 30.1
GCA EP	05 25 33.5
BOZ EP	05 25 39.5
ALQ E(P)	05 25 52.0
E	26 33.0
E	26 39.0

Date and Station	Phase (GCT)
	h m s
JUL 10	
H-07 23 10.4	
55.6N 154.1W	
h ABOUT 033KM	
COL EP	07 25 32.1
JUL 10	
COL EP	07 33 30.2
JUL 10	
COL E(P)	07 33 40.0
JUL 10	
TUC EP	08 35 22.0
JUL 10	
COL EP	09 23 01.0
JUL 10	
COL EP	10 21 02.0
JUL 10	
EUR EP	11 31 32.4
JUL 10	
TUC EP	11 48 23.5
JUL 10	
H-11 50 46.8	
26.5N 109.7W	
h ABOUT 033KM	
TUC EP	11 52 11.0
E	52 16.2
ALQ EP	11 52 56.0
E	53 08.5
BCN EP	11 53 16.6
EL	56 26.0
GCA EP	11 53 21.5
EUR IP	11 54 05.8
BOZ EP	11 55 09.0
BUT E(P)	11 55 14.6
COL EP	11 59 05.0
JUL 10	
EUR EP	13 16 01.0
TUC EP	13 16 03.0
ALQ EP	13 16 24.0
JUL 10	
COL IP	13 19 46.8
JUL 10	
TUC E(P)	15 32 51.4
E	33 09.4
JUL 10	
GCA E(P)	15 35 13.5
JUL 10	
SJP EP	15 48 47.0
EL	49 00.0

Date and Station	Phase (GCT)
	h m s
JUL 10	
EUR EP	15 49 27.3
JUL 10	
TUC E(P)	15 52 21.0
E	52 26.0
JUL 10	
SJP IP	16 15 46.5
IL	16 01.0
JUL 10	
BOZ E(P)	16 46 31.0
FGU E(P)	16 46 32.5
EL	47 02.8
JUL 10	
H-17 08 57.3	
47.2N 153.1E	
h ABOUT 082KM	
COL IP	17 15 49.6
BOZ EP C	17 19 06.0
EUR IP	17 19 16.8
ALQ IP	17 20 12.0
E	20 21.0
JUL 10	
BOZ EP	18 50 22.5
JUL 10	
COL IP	19 28 26.1
JUL 10	
BOZ E(P)	19 39 49.0
JUL 10	
FGU EP	19 47 01.5
JUL 10	
COL EP	20 33 47.0
JUL 10	
TUC E(P)	20 56 02.5
JUL 10	
ALQ EP	21 09 42.0
JUL 10	
H-21 16 26.4	
20.1S 174.2W	
h ABOUT 033KM	
ALQ IP	21 28 58.0
BOZ EP	21 29 07.0
COL EP	21 29 10.0
JUL 10	
H-22 23 51.5	
53.4N 167.8W	
h ABOUT 033KM	
COL EP	22 27 27.0
BOZ EP D	22 30 54.2
E	33 11.0
FGU E(P)	22 31 26.8
BCN EP	22 31 28.5
GCA EP	22 31 39.5
TUC EP	22 32 08.6
E	32 13.2
EPCP	33 51.4
ALQ IP	22 32 14.5
EPCP	33 52.0
JUL 11	
H-00 15 51.6	
53.2N 168.6W	
h ABOUT 061KM	
COL EP	00 19 31.0
BOZ EP	00 22 56.0
EUR IP	00 23 05.1
FGU EP	00 23 30.3
GCA EP	00 23 40.7
TUC EP	00 24 10.0
ALQ IP	00 24 16.0
EPCP	25 53.0
JUL 11	
ALQ EP	01 17 08.0
JUL 11	
H-01 36 16.3	
7.3S 148.0E	
h ABOUT 058KM	
COL IP	01 48 50.6
EUR IP	01 49 54.5
HHM E(P)	01 50 00.0
BOZ IP	01 50 08.0
ALQ EP'	01 54 54.0
SJP EP'	01 55 47.2
EPP	56 04.0
JUL 11	
KIP EP	01 46 00.0
I	46 21.0
JUL 11	
EUR IP	02 36 31.9
IS	36 47.8
JUL 11	
GUA E(P)	02 40 52.0
JUL 11	
H-02 47 25.3	
42.9N 110.7W	
h ABOUT 033KM	
SLC EP	02 47 59.7
ES	48 26.9
FGU EP	02 48 00.9
IL	48 30.5
BOZ EP	02 48 09.0
EL	49 47.0
EUR EP	02 48 44.4
JUL 11	
H-04 45 28.6	
41.6N 142.3E	
h ABOUT 050KM	
COL IP	04 53 41.3
HHM EP	04 56 24.2
BOZ IP	04 56 43.0
EUR IP	04 56 51.5
BCN EP	04 57 09.5
E	57 24.0
TUC EP	04 57 36.5
ALQ IP	04 57 41.0
JUL 11	
H-05 53 53.4	
23.8S 177.4W	
h ABOUT 215KM	
EUR EP	06 06 06.2
ALQ IP	06 06 26.0
E	06 34.0
BOZ EP	06 06 36.0
JUL 11	
H-06 40 45.6	
11.7S 166.6E	
h ABOUT 033KM	
EUR EP	06 53 36.0
JUL 11	
FGU EP	07 12 08.7
IL	12 52.2
ALQ E(P)	07 12 31.5
JUL 11	
EUR EP	07 35 47.9
JUL 11	
ALQ E(P)	07 50 05.0
JUL 11	
ALQ E(P)	07 55 40.5
E	55 44.0
JUL 11	
H-08 15 39.1	
2.6S 077.6W	
h ABOUT 148KM	
ALQ E(P)	08 23 51.0
JUL 11	
COL EP	08 20 47.0
JUL 11	
H-08 29 12.9	
22.4N 121.4E	
h ABOUT 118KM	
COL EP	08 40 15.0
HHM EP	08 42 19.5
JUL 11	
H-09 44 18.7	
59.7N 146.1W	
h ABOUT 033KM	
COL IP	09 45 36.1
SIT E(P)	09 45 44.0
HHM EP	09 49 09.3
E(S)	53 31.0
BUT EP	09 49 32.7
EL	57 08.7
BOZ IP	09 49 39.8
ES	54 20.0
EUR IP C	09 50 06.4
SLC EP	09 50 13.2
BCN EP	09 50 37.2
E	50 47.7
EPCP	53 30.0
GCA EP	09 50 42.2
ALQ IP	09 51 16.0
E	51 29.0
E	51 45.0
EPCP	53 43.0
TUC IP C	09 51 19.7
PCP	53 43.0
KIP EP	09 51 44.0
ET	10 32 38.0
JUL 11	
COL EP	10 47 08.0
JUL 11	
COL IP	11 03 08.9
JUL 11	
H-11 16 32.8	
14.1N 093.0W	
h ABOUT 051KM	
ALQ E(P)	11 21 44.0
TUC EP	11 21 48.4
BOZ E(P)	11 23 26.0
JUL 11	
H-11 52 25.0	
01.0N 029.3W	
h ABOUT 033KM	
ALQ IP	12 04 28.0
E	04 36.0
TUC EP	12 04 44.8
BOZ EP	12 04 53.0
HHM EP	12 05 02.8

Date and Station	Phase (GCT)
	h m s
EUR IP	12 05 08.4
JUL 11	
TUC EP	11 57 40.0
ALQ E(P)	11 58 12.0
JUL 11	
H-12 38 51.9	
18.9N 109.0W	
h ABOUT 033KM	
TUC EP	12 42 02.8
JUL 11	
ALQ EP	12 57 41.0
E	57 49.0
BCN EP	12 58 00.3
E	58 09.0
JUL 11	
EUR EP	13 49 47.3
JUL 11	
H-14 33 06.9	
49.3N 129.0W	
h ABOUT 033KM	
HHM EP	14 35 28.6
BOZ EP	14 36 01.5
EUR IP	14 36 21.2
TUC EP	14 37 57.2
ALQ IP	14 38 00.0
E	38 05.0
JUL 11	
H-15 03 22.6	
13.4N 062.9W	
h ABOUT 033KM	
SJP EP	15 04 48.2
BOZ E(P)	15 12 29.0
JUL 11	
H-15 35 53.1	
5.8N 126.4E	
h ABOUT 152KM	
COL IP	15 48 01.9
BOZ EP'	15 54 04.9
TUC EP'	15 54 17.0
ALQ IP'	15 54 21.0
E	54 23.5
JUL 11	
BOZ EP	16 01 18.0
JUL 11	
COL EP	16 14 26.0
HHM E(P)	16 17 28.0
E	18 32.8
BOZ E(P)	16 17 42.0
E	18 57.0

Date and Station	Phase (GCT)
	h m s
JUL 11	
TUC EP	16 19 05.5
E	20 11.0
ALQ E(P)	16 19 12.0
E	20 17.0
E	21 57.0
BCN EP	16 19 32.0
JUL 11	
KIP ET	16 51 17.0
JUL 11	
H-17 07 38.9	
16.9S 172.8W	
h ABOUT 033KM	
BCN EP	17 19 27.7
E	19 38.2
TUC EP	17 19 30.0
ALQ E(P)	17 19 54.0
BOZ EP	17 20 04.0
COL IP	17 20 07.1
JUL 11	
H-17 44 29.8	
66.4N 019.7W	
h ABOUT 019KM	
COL IP	17 52 39.0
HHM EP	17 53 17.8
BOZ IP D	17 53 25.9
ALQ EP	17 54 19.0
E	54 34.0
TUC EP	17 54 46.7
JUL 11	
GCA IP	17 59 39.8
ES	59 49.5
JUL 11	
H-18 53 15.8	
12.2N 141.6E	
h ABOUT 061KM	
GUA EP	18 54 09.0
BOZ E(P)	19 06 21.0
JUL 11	
H-20 25 40.3	
59.7N 146.2W	
h ABOUT 040KM	
COL IP	20 26 58.0
SIT E(P)	20 27 07.0
HHM EP C	20 30 33.0
I	31 25.0
BUT EP	20 30 52.7
ES	35 04.7

Date and Station	Phase (GCT)
	h m s
BOZ EP	20 31 01.0
I	31 50.0
ES	35 20.0
UKI E(P)	20 31 03.1
EUR IP C	20 31 27.7
SLC IP	20 31 34.0
FGU EP	20 31 42.8
BCN IP C	20 31 58.5
E	32 10.7
EPCP	34 49.6
ESCP	38 37.5
GCA EP	20 32 03.0
ALQ IP	20 32 37.0
E	32 48.0
E	33 26.0
TUC IP C	20 32 40.8
E	33 29.8
EPCP	35 03.6
KIP IP	20 33 05.7
E	39 18.0
EL	42 12.0
ET	21 14 03.0
HON EP	20 33 07.0
E	39 20.0
EL	42 16.0
ET	21 14 14.0
JUL 11	
BCN EP	20 32 47.0
E	32 59.7
EPCP	35 40.5
JUL 11	
H-21 05 49.9	
59.7N 146.5W	
h ABOUT 033KM	
COL IP	21 07 08.5
HHM EP	21 10 40.7
BOZ EP	21 11 12.0
BCN EP	21 12 09.5
ALQ EP	21 12 49.0
JUL 11	
BOZ EP	21 14 46.5
JUL 11	
COL IP	21 23 39.8
JUL 11	
H-22 34 43.8	
41.7N 029.9W	
h ABOUT 033KM	
BOZ IP	22 44 27.0
HHM EP	22 44 27.4
FGU EP	22 44 33.0

Date and Station	Phase (GCT)
	h m s
ALQ IP	22 44 40.5
GCA EP	22 44 57.2
TUC IP	22 45 10.8
BCN E(P)	22 45 15.3
JUL 11	
COL IP	23 03 13.1
JUL 11	
TUC E(P)	23 57 24.2
JUL 12	
TUC E(P)	01 08 13.0
EUR IP	01 08 13.9
JUL 12	
BUT IP C	01 42 03.6
JUL 12	
H-01 45 25.6	
38.6N 139.2E	
h ABOUT 013KM	
GUA EP	01 50 53.0
HON EP	01 55 06.0
E	02 03 02.0
EL	08 30.0
KIP IP	01 55 06.4
SIT EP	01 55 09.1
HHM IP	01 56 49.7
I▸P	56 54.7
UKI EP	01 56 52.0
BOZ IP C	01 57 08.0
I▸P	57 13.0
IS	02 06 44.0
EUR IP C	01 57 15.7
SLC IP	01 57 25.2
FGU IP	01 57 32.5
BCN IP C	01 57 32.7
I▸P	57 37.2
EPP	02 00 31.0
GCA IP	01 57 39.7
TUC IP C	01 57 58.3
E▸P	58 03.0
ALQ IP	01 58 03.0
E	58 11.5
E	58 17.5
JUL 12	
TUC E(P)	02 07 39.2
COL IP	02 09 12.0

Date and Station	Phase	Phase (GCT) h m s
JUL 12		
H-03 23 49.1		
18.5N 100.5W		
h ABOUT 113KM		
TUC	EP	03 27 36.0
	E	27 45.4
ALQ	IP	03 27 44.5
BCN	EP	03 28 30.8
FGU	EP	03 28 52.0
FUR	EP	03 29 02.0
BOZ	E(P)	03 29 36.0
JUL 12		
HHM	E(P)	03 55 21.0
JUL 12		
UKI	EP	04 19 21.6
EUR	EP	04 20 33.6
JUL 12		
TUC	E(P)	07 10 04.0
JUL 12		
UKI	EP	07 18 37.4
EUR	EP	07 19 48.4
JUL 12		
UKI	E(P)	07 22 02.0
JUL 12		
TUC	E(P)	07 54 44.0
JUL 12		
H-09 00 39.9		
60.1N 146.1W		
h ABOUT 033KM		
COL	EP	09 01 53.0
HHM	E(P)	09 05 27.0
BOZ	E(P)	09 05 59.0
JUL 12		
EUR	EP	11 11 35.0
BCN	E(P)	11 12 02.0
TUC	EP	11 12 39.2
JUL 12		
H-11 23 29.0		
53.1N 168.6W		
h ABOUT 033KM		
HHM	E(P)	11 30 22.6
BOZ	IP	11 30 36.0
EUR	IP	11 30 45.9
BCN	E(P)	11 31 11.8
TUC	EP	11 31 50.6
KIP	ET	12 04 00.0

Date and Station	Phase	Phase (GCT) h m s
JUL 12		
H-11 58 57.0		
40.2N 124.7W		
h ABOUT 033KM		
UKI	EP	11 59 25.0
EUR	IP	12 00 37.0
BOZ	EP	12 01 36.0
	E	06 00.0
BCN	E(P)	12 02 01.1
JUL 12		
TUC	E(P)	12 16 40.5
JUL 12		
H-12 18 19.1		
40.3N 126.1W		
h ABOUT 033KM		
UKI	EP	12 18 57.4
EUR	IP	12 20 11.0
BOZ	EP	12 21 08.0
	E(S)	23 28.0
FGU	EP	12 21 20.4
TUC	E(P)	12 21 50.8
ALQ	E(P)	12 22 12.0
JUL 12		
ALQ	E(P)	12 18 46.0
BCN	E(P)	12 19 02.7
	E	19 09.8
FGU	EP	12 19 17.9
JUL 12		
HHM	E(P)	12 21 27.6
JUL 12		
BCN	E(P)	12 21 01.9
	E	21 24.8
	EL	23 25.7
JUL 12		
BOZ	IP	12 22 05.0
	IL	22 20.0
JUL 12		
GCA	EP	12 24 22.0
JUL 12		
COL	EP	12 32 50.0
JUL 12		
BOZ	E(P)	12 46 34.0
	E	46 50.3
JUL 12		
FGU	EP	13 00 19.6
JUL 12		
TUC	EP	13 11 50.1
JUL 12		
GUA	EP	13 17 15.0

Date and Station	Phase	Phase (GCT) h m s
JUL 12		
FGU	IP	13 14 15.3
	I	14 28.9
JUL 12		
TUC	EP	13 46 00.5
	E	46 16.7
JUL 12		
UKI	EP	13 48 38.0
JUL 12		
UKI	EP	15 20 15.4
JUL 12		
H-16 48 21.7		
24.5S 066.9W		
h ABOUT 164KM		
ALQ	IP	16 59 17.5
	E	59 21.0
TUC	EP	16 59 19.3
	E	17 00 04.4
GCA	IP D	16 59 43.6
BCN	IP D	16 59 49.0
FGU	IP	16 59 53.5
EUR	IP D	17 00 06.4
BOZ	IP D	17 00 18.0
BUT	EP	17 00 22.3
HHM	IP D	17 00 33.6
	I	00 36.5
JUL 12		
ALQ	E(P)	17 27 11.0
JUL 12		
UKI	EP	18 23 44.4
EUR	EP	18 24 57.1
JUL 12		
TUC	E(P)	18 26 50.0
JUL 12		
H-20 00 59.6		
53.8N 081.3E		
h ABOUT 020KM		
COL	EP	20 10 35.0
HHM	EP D	20 12 54.0
BOZ	IP	20 13 10.1
	I	13 16.0
EUR	EP	20 13 40.5
ALQ	IP	20 14 07.0
	E	14 13.0
	E	17 10.0
JUL 12		
H-20 15 59.0		
24.9N 095.3E		
h ABOUT 155KM		

Date and Station	Phase	Phase (GCT) h m s
COL	E(P)	20 27 38.0
JUL 12		
H-20 19 17.4		
40.5N 142.5E		
h ABOUT 033KM		
BOZ	IP D	20 30 38.1
	E	34 06.0
ALQ	E(P)	20 31 35.0
JUL 12		
TUC	EP	20 43 52.2
JUL 12		
H-21 08 52.6		
55.9S 027.6W		
h ABOUT 135KM		
TUC	EP'	21 27 13.3
BCN	EP'	21 27 23.6
EUR	EP'	21 27 29.9
BOZ	IP'	21 27 34.0
	ISKP	30 57.5
HHM	IP'	21 27 39.6
COL	IP'	21 28 27.1
JUL 12		
FGU	EP	21 37 43.6
ALQ	IP	21 38 04.5
	E	38 13.0
JUL 12		
ALQ	E(P)	22 17 18.0
JUL 12		
BOZ	EP	23 27 06.9
JUL 12		
TUC	E(P)	23 37 14.0
JUL 12		
FGU	E(P)	23 38 24.1
	E(S)	38 40.6
JUL 13		
BOZ	E(P)	00 03 39.0
JUL 13		
FGU	IP	00 45 31.3
JUL 13		
H-01 14 33.5		
20.7S 178.7W		
h ABOUT 575KM		
BCN	IP D	01 25 59.5
EUR	IP	01 26 03.5
TUC	EP	01 26 04.6
GCA	IP C	01 26 13.3
ALQ	IP	01 26 24.0
	E	26 30.0

Date and Station	Phase (GCT)
	h m s
COL IP	01 26 25.0
FGU IP	01 26 27.4
HHM E(P)	01 26 31.0
BOZ EP	01 26 31.0
JUL 13	
GCA EP	01 32 37.8
JUL 13	
TUC E(P)	01 48 03.0
E	48 53.2
JUL 13	
BCN E(P)	01 49 43.4
EL	51 01.5
JUL 13	
TUC EP	02 38 37.0
E	39 17.0
JUL 13	
TUC EP	02 42 03.0
JUL 13	
TUC EP	02 54 48.3
JUL 13	
TUC EP	03 18 11.7
JUL 13	
COL EP	03 26 36.0
JUL 13	
TUC EP	03 35 02.8
JUL 13	
BOZ EP	05 12 13.0
JUL 13	
TUC EP	05 28 44.4
JUL 13	
H-06 28 28.4	
11.8S 166.0E	
h ABOUT 066KM	
TUC EP	06 41 22.7
JUL 13	
H-06 47 54.1	
44.7N 129.9W	
h ABOUT 033KM	
EUR IP	06 50 40.0
BOZ EP	06 50 58.9
E	54 32.0
BCN EP	06 51 20.4
E	51 24.8
FGU E(P)	06 51 32.3
GCA E(P)	06 51 41.7
TUC EP	06 52 18.3
ALQ IP	06 52 30.0
E	52 34.5

Date and Station	Phase (GCT)
	h m s
JUL 13	
BCN E(P)	07 28 40.5
EL	29 27.5
JUL 13	
H-10 03 45.3	
25.0S 179.9W	
h ABOUT 424KM	
BCN EP	10 15 42.4
TUC EP	10 15 46.8
EUR EP	10 15 47.7
ALQ EP	10 16 06.0
BOZ EP	10 16 15.8
E	21 27.0
JUL 13	
H-10 08 07.2	
15.9S 167.9E	
h ABOUT 033KM	
COL IP	10 20 49.6
BCN EP	10 21 02.0
E	21 20.0
EUR IP	10 21 04.2
TUC EP	10 21 11.0
FGU E(P)	10 21 27.3
JUL 13	
H-10 58 47.7	
23.7N 094.7E	
h ABOUT 117KM	
COL IP	11 10 43.0
EUR EP'	11 17 09.4
ALQ IP'	11 17 23.0
I	17 53.0
E	20 32.0
TUC EP'	11 17 25.8
JUL 13	
BOZ E(P)	11 15 26.0
E	17 04.0
JUL 13	
BCN E(P)	11 18 36.7
JUL 13	
GUA EP	11 31 23.0
E	31 43.0
JUL 13	
TUC EP	11 27 37.0
ALQ EP	11 27 40.0
E	28 04.0
BCN E(P)	11 27 48.5
E	28 00.0
E	28 28.5
EUR EP	11 28 05.5

Date and Station	Phase (GCT)
	h m s
JUL 13	
BOZ E(P)	11 28 09.0
JUL 13	
H-11 54 50.7	
42.5N 126.7W	
h ABOUT 033KM	
UKI E(P)	11 55 50.0
EUR IP	11 56 55.5
BUT E(P)	11 57 19.0
HHM EP	11 57 21.6
EL	59 48.0
BOZ IP C	11 57 31.3
I	57 41.0
EL	59 00.0
SLC EP	11 57 31.6
BCN EP	11 57 34.0
E	57 47.0
FGU EP	11 57 54.3
GCA EP	11 57 55.7
TUC EP C	11 58 39.1
E	58 44.3
EL	12 02 33.0
ALQ IP	11 58 55.0
E	59 05.0
COL EP	12 00 17.0
JUL 13	
COL EP	12 03 48.0
JUL 13	
GUA EP	13 42 13.0
ES	42 22.0
JUL 13	
COL EP	13 56 05.0
JUL 13	
H-14 53 27.0	
20.9S 169.9E	
h ABOUT 089KM	
BCN EP	15 06 22.3
EUR IP	15 06 25.8
TUC EP	15 06 29.5
JUL 13	
BOZ E(P)	14 59 52.0
E	15 00 17.0
JUL 13	
H-15 52 04.8	
56.6N 154.0W	
h ABOUT 025KM	
COL EP	15 54 15.0
HHM EP	15 57 32.4
BOZ IP	15 57 59.0

Date and Station	Phase (GCT)
	h m s
EUR IP	15 58 15.8
ALQ IP	15 59 27.0
E	59 34.0
JUL 13	
ALQ EP	16 20 07.0
JUL 13	
H-16 22 25.8	
53.7N 035.2W	
h ABOUT 033KM	
BOZ E(P)	16 31 02.0
ALQ EP	16 31 34.0
JUL 13	
H-16 49 38.8	
08.3S 113.7E	
h ABOUT 153KM	
EUR IP'	17 08 27.4
BOZ IP'	17 08 27.5
E	08 58.0
BCN EP'	17 08 32.3
ALQ EP'	17 08 44.0
ISKP	12 02.0
JUL 13	
GCA EP	17 11 45.0
TUC EP	17 11 53.2
E	12 48.2
JUL 13	
H-17 12 01.3	
08.0N 126.8E	
h ABOUT 104KM	
COL IP	17 24 05.6
ALQ EP'	17 30 31.5
SJP EP'	17 31 45.0
E	31 53.3
JUL 13	
EUR EP	19 45 26.5
JUL 13	
ALQ EP	20 12 42.0
E	21 19.0
JUL 13	
ALQ IP	20 23 22.0
E	23 26.0
E	23 44.0
JUL 13	
ALQ E(P)	20 36 02.2
JUL 13	
H-21 02 33.3	
07.7N 034.7W	
h ABOUT 033KM	
BHP IP	21 10 41.0
ALQ IP	21 13 47.0
E	14 08.0

Date and Station	Phase	Phase (GCT) h m s
FGU	EP	21 14 04.1
TUC	EP	21 14 08.0
	E	14 16.2
BOZ	EP	21 14 16.0
GCA	EP	21 14 16.3
SLC	EP	21 14 16.5
BUT	E(P)	21 14 22.0
HHM	EP	21 14 26.3
	E	14 40.4
BCN	EP	21 14 28.5
EUR	IP	21 14 34.6
COL	EP	21 15 44.0
JUL 13		
H-21 41 02.6		
55.2N 156.5W		
h ABOUT 033KM		
COL	EP	21 43 34.6
JUL 13		
ALQ	IP	21 53 18.0
	E(S)	53 53.0
GCA	EP	21 53 23.1
	IS	53 51.0
TUC	EP	21 54 05.3
JUL 13		
EUR	EP	21 56 01.3
JUL 13		
EUR	EP	22 28 31.4
JUL 13		
H-22 47 26.9		
41.8S 084.3W		
h ABOUT 033KM		
TUC	EP	22 59 21.5
ALQ	IP	22 59 29.0
	E	59 34.0
FGU	EP	23 00 03.0
EUR	EP	23 00 05.5
BOZ	EP	23 00 26.0
JUL 13		
HHM	E(P)	23 07 05.0
JUL 13		
BHP	IP	23 20 13.5
	IS	20 35.5
JUL 13		
H-23 43 46.3		
48.2S 031.5E		
h ABOUT 033KM		

Date and Station	Phase	Phase (GCT) h m s
ALQ	EP'	24 03 25.0
	E	03 38.0
	E	03 44.0
TUC	EP'	24 03 27.0
FGU	EP'	24 03 38.1
EUR	EP'	24 03 39.5
GCA	EP'	24 03 39.8
JUL 14		
EUR	IP	00 42 44.0
	IS	42 58.0
JUL 14		
COL	IP	00 58 54.7
JUL 14		
TUC	E(P)	01 58 41.2
JUL 14		
H-04 04 18.2		
53.6N 172.0E		
h ABOUT 033KM		
COL	EP	04 09 21.2
HHM	EP	04 12 32.3
BOZ	IP	04 12 54.8
	I	13 03.5
EUR	IP C	04 13 06.5
TUC	EP	04 14 05.4
ALQ	EP	04 14 10.0
	E	14 19.0
JUL 14		
H-05 22 20.0		
60.4N 142.9W		
h ABOUT 010KM		
SIT	E(P)	05 23 37.4
COL	IP	05 23 38.0
HHM	EP	05 27 00.2
BOZ	EP	05 27 33.5
EUR	IP	05 28 02.4
ALQ	E(P)	05 29 12.0
JUL 14		
H-05 33 55.1		
57.0N 007.3E		
h ABOUT 036KM		
BOZ	E(P)	05 44 49.0
ALQ	E(P)	05 45 33.0
JUL 14		
ALQ	E(P)	07 20 18.0
JUL 14		
TUC	E(P)	07 58 22.5

Date and Station	Phase	Phase (GCT) h m s
JUL 14		
TUC	EP	08 53 03.2
ALQ	EP	08 53 23.0
JUL 14		
SJP	IP	09 46 20.7
	I(L)	46 33.1
JUL 14		
H-09 55 24.4		
19.0N 066.5W		
h ABOUT 046KM		
SJP	IP D	09 55 39.1
BHP	EP C	09 59 13.0
CSC	EP	09 59 52.0
WAS	EP	10 00 14.0
ALQ	IP	10 02 46.0
	E	02 53.0
	ES	08 40.0
TUC	EP	10 03 12.0
FGU	EP	10 03 16.1
GCA	EP	10 03 24.0
BOZ	IP D	10 03 42.0
BCN	EP	10 03 43.6
BUT	EP	10 03 48.9
EUR	IP	10 03 54.0
HHM	EP	10 04 01.2
COL	IP	10 06 27.6
JUL 14		
SJP	IP	10 01 55.4
	I(S)	02 03.4
JUL 14		
SJP	IP	10 15 31.5
JUL 14		
SJP	IP	10 19 21.7
	I(S)	19 26.8
JUL 14		
SJP	IP	10 23 35.5
	I(S)	23 46.4
JUL 14		
SJP	IP	11 15 32.3
	I(S)	15 38.1
JUL 14		
HHM	E(P)	11 28 35.0
JUL 14		
COL	EP	12 40 54.0
EUR	EP	12 41 27.3
JUL 14		
SJP	IP	12 50 29.7
	I(S)	50 39.7

Date and Station	Phase	Phase (GCT) h m s
JUL 14		
H-12 47 25.6		
41.8N 125.7W		
h ABOUT 033KM		
UKI	EP	12 48 15.0
EUR	IP	12 49 18.0
BUT	EP	12 49 53.9
	EL	52 06.0
BCN	EP	12 49 56.0
SLC	IP	12 49 56.1
BOZ	EP C	12 49 59.0
	ES	52 08.0
FGU	IP	12 50 19.2
TUC	EP	12 51 01.2
	I	51 07.8
ALQ	IP	12 51 17.0
COL	IP	12 53 02.0
JUL 14		
EUR	IP	13 49 19.2
JUL 14		
H-13 58 28.5		
53.3N 159.7E		
h ABOUT 040KM		
SIT	E(P)	14 05 29.0
HHM	EP	14 07 32.0
	I	08 41.7
BUT	EP	14 07 48.9
	EpP	08 02.9
BOZ	IP C	14 07 55.0
	IpP	08 09.0
EUR	IP C	14 08 09.7
	IpP	08 23.7
SLC	EP	14 08 18.3
FGU	EP	14 08 25.5
BCN	EP	14 08 31.0
	EpP	08 44.5
	E	08 59.0
TUC	EP	14 09 04.0
	EpP	09 18.3
ALQ	IP	14 09 07.0
	EpP	09 21.0
	E	09 32.0
JUL 14		
BOZ	E(P)	14 43 40.0
JUL 14		
TUC	E(P)	14 51 41.8

Date and Station	Phase (GCT)
	h m s
JUL 14	
BCN EP	14 54 14.2
JUL 14	
TUC E(P)	15 03 35.8
SIT E(P)	15 04 17.2
JUL 14	
TUC E(P)	15 12 09.4
E	12 40.6
JUL 14	
H-15 50 04.8	
49.0N 122.6W	
h ABOUT 013KM	
HHM EP	15 51 31.2
EL	53 04.2
BUT E(P)	15 51 56.0
E	51 25.0
EL	53 39.9
BOZ EP	15 52 04.0
E	52 07.0
I	54 20.0
EUR IP	15 52 43.3
EL	55 45.5
ALQ IP	15 54 21.0
E	54 29.0
TUC EP	15 54 27.0
JUL 14	
EUR IP	17 15 06.8
JUL 14	
H-17 19 23.3	
45.3N 150.2E	
h ABOUT 033KM	
COL IP	17 26 45.6
BOZ EP	17 29 57.0
ALQ IP	17 30 59.5
E	31 11.0
JUL 14	
GUA IP	17 37 34.0
JUL 14	
FGU EP	18 13 27.2
I	13 30.4
JUL 14	
COL EP	19 04 04.0
JUL 14	
SJP IP	19 42 31.1
IS	42 39.0
JUL 14	
ALQ E(P)	19 58 38.0
JUL 14	
H-22 59 09.2	
59.5N 144.8W	
h ABOUT 020KM	

Date and Station	Phase (GCT)
	h m s
SIT E(P)	23 00 24.7
ES	01 28.8
COL IP	23 00 33.2
BUT E(P)	23 04 19.0
BOZ IP D	23 04 25.8
E	04 36.0
EUR IP D	23 04 53.0
FGU EP	23 05 07.4
ALQ EP	23 06 02.0
E	06 09.0
TUC EP	23 06 05.5
JUL 14	
TUC E(P)	23 04 09.0
JUL 14	
H-23 12 12.7	
34.3S 179.1E	
h ABOUT 075KM	
TUC EP	23 25 20.5
JUL 15	
BOZ E(P)	00 29 37.0
JUL 15	
TUC EP	01 39 42.6
JUL 15	
TUC EP	01 42 48.2
JUL 15	
TUC EP	02 32 17.4
JUL 15	
H-03 11 05.1	
32.5N 117.1W	
h ABOUT 016KM	
BCN IP	03 12 06.5
IS	12 50.0
IL	13 08.5
TUC E(P)	03 12 24.0
GCA EP	03 12 40.9
EUR IP C	03 12 49.5
IL	14 39.5
JUL 15	
TUC EP	03 38 32.3
JUL 15	
TUC EP	04 14 09.4
JUL 15	
TUC EP	04 27 17.6
JUL 15	
TUC EP	04 29 29.7
JUL 15	
TUC EP	04 41 36.2
JUL 15	
COL IP	06 12 45.5

Date and Station	Phase (GCT)
	h m s
JUL 15	
TUC E(P)	06 25 08.3
JUL 15	
COL EP	06 45 24.0
JUL 15	
COL IP	07 08 24.0
JUL 15	
H-07 26 01.4	
52.1N 170.6W	
h ABOUT 030KM	
COL EP	07 30 02.0
SIT E(P)	07 30 47.0
HHM EP	07 32 58.8
EPCP	35 26.8
BOZ EP C	07 33 21.2
ISCP	39 19.0
EUR IP D	07 33 29.2
EPCP	35 40.7
ISCP	39 22.8
SLC E(P)	07 33 44.8
FGU EP	07 33 56.1
BCN E(P)	07 33 57.7
E	34 06.3
GCA EP	07 34 05.6
TUC EP	07 34 32.3
E	34 44.3
ALQ EP	07 34 39.0
E	34 51.0
E	35 00.0
CSC EP	07 36 29.0
E	36 44.0
SJP EP	07 38 33.2
JUL 15	
COL EP	07 38 02.0
JUL 15	
H-08 24 56.5	
11.3S 166.1E	
h ABOUT 130KM	
COL IP	08 37 09.5
EUR IP	08 37 33.0
TUC EP	08 37 43.4
JUL 15	
BOZ EP	08 38 21.0
JUL 15	
TUC E(P)	08 47 36.3
JUL 15	
BCN E(P)	08 49 16.0
E(L)	49 51.5

Date and Station	Phase (GCT)
	h m s
JUL 15	
TUC EP	08 55 14.6
JUL 15	
COL IP	09 28 44.9
JUL 15	
H-09 49 05.8	
35.2N 004.5E	
h ABOUT 039KM	
BOZ EP	10 01 21.0
ALQ E(P)	10 01 42.0
TUC E(P)	10 02 03.0
JUL 15	
COL IP	10 44 59.4
JUL 15	
GCA IP	11 28 29.3
IS	28 41.1
JUL 15	
COL IP	11 38 40.2
JUL 15	
COL IP	12 39 01.6
JUL 15	
BOZ EP	14 34 30.0
JUL 15	
BOZ EP	16 32 17.0
JUL 15	
BOZ E(P)	16 36 18.0
JUL 15	
TUC EP	17 04 14.4
E	04 19.8
ALQ E(P)	17 04 31.5
JUL 15	
GCA EP	17 10 01.5
JUL 15	
ALQ E(P)	17 20 29.0
JUL 15	
COL EP	18 03 10.0
JUL 15	
ALQ E(P)	18 03 16.0
JUL 15	
EUR IP	18 29 30.8
JUL 15	
H-18 56 26.0	
44.0N 148.1E	
h ABOUT 030KM	
COL EP	19 04 04.0
BOZ IP	19 07 12.0
I	07 32.0
EUR IP	19 07 22.0
BCN EP	19 07 40.3
E	07 00.5

Date and Station	Phase (GCT)
	h m s
ALQ IP	19 08 14.0
E	08 33.0
JUL 15	
EUR EP	22 37 59.5
EL	39 00.5
JUL 15	
EUR IP	23 34 13.8
IpP	34 27.8
JUL 15	
ALQ E(P)	23 54 31.0
E	54 38.0
JUL 16	
TUC E(P)	00 54 15.2
JUL 16	
BUT EP	02 24 31.1
IL	24 48.0
JUL 16	
TUC E(P)	02 37 24.8
JUL 16	
TUC EP	04 00 57.2
JUL 16	
H-04 21 05.3	
1.5N 126.4E	
h ABOUT 069KM	
ALQ EP'	04 39 50.0
JUL 16	
EUR EP	05 04 52.7
TUC EP	05 05 01.4
JUL 16	
EUR EP	08 06 34.6
I	07 40.2
JUL 16	
H-09 19 45.8	
29.9N 138.0E	
h ABOUT 461KM	
COL EP	09 28 44.8
HHM E(P)	09 31 02.0
BOZ IP	09 31 17.0
EUR IP	09 31 20.6
ALQ IP	09 32 03.0
JUL 16	
TUC EP	10 20 49.2
JUL 16	
GUA IP	10 31 57.0
ES	32 05.0
JUL 16	
H-10 37 23.1	
44.0N 148.3E	
h ABOUT 033KM	
COL EP	10 44 58.8
BOZ EP	10 48 09.0

Date and Station	Phase (GCT)
	h m s
EUR IP	10 48 18.0
BCN EP	10 48 36.9
E	48 45.3
TUC EP	10 49 04.4
ALQ IP	10 49 10.0
E	49 17.0
JUL 16	
H-11 27 04.5	
17.9S 179.5W	
h ABOUT 625KM	
BCN EP	11 38 19.5
TUC EP	11 38 25.5
COL IP	11 38 40.2
ALQ EP	11 38 46.5
JUL 16	
H-12 20 55.8	
17.2N 094.4W	
h ABOUT 081KM	
ALQ EP	12 25 34.0
E	25 51.0
TUC EP	12 25 35.5
JUL 16	
BCN EP	12 26 54.5
JUL 16	
H-13 15 00.2	
37.2N 116.1W	
h ABOUT 000KM	
BCN IP C	13 15 28.8
I	15 48.5
EUR IP C	13 15 39.6
GCA IP C	13 15 57.5
SLC EP	13 16 18.0
I	16 40.5
IL	17 44.3
TUC EP	13 16 37.5
ALQ EP	13 17 00.0
E	17 30.0
BOZ EP	13 17 18.0
EL	19 45.0
BUT E(P)	13 17 19.0
HHM E(P)	13 17 44.0
JUL 16	
H-13 15 26.3	
16.0N 145.5E	
h ABOUT 033KM	
GUA EP	13 16 04.0
E	16 39.0
I	17 10.0
BOZ EP	13 28 10.0

Date and Station	Phase (GCT)
	h m s
JUL 16	
TUC E(P)	13 38 15.5
JUL 16	
H-14 18 06.4	
37.2N 116.1W	
h ABOUT 000KM	
BCN IP D	14 18 35.0
IL	18 55.8
EUR EP D	14 18 45.0
GCA EP	14 19 05.6
TUC E(P)	14 19 33.6
JUL 16	
BOZ EP	14 57 43.5
E	58 21.0
JUL 16	
ALQ EP	15 17 22.0
JUL 16	
GUA EP	15 50 33.5
ES	50 57.0
JUL 16	
H-16 07 18.3	
0.3N 067.0E	
h ABOUT 033KM	
BOZ EP'	16 26 36.0
EPP	29 08.0
BCN EP'	16 26 52.3
E	27 02.5
ALQ IP'	16 26 53.5
E	27 00.0
E	27 04.0
JUL 16	
ALQ E(P)	16 26 24.5
JUL 16	
BHP I(P)	17 52 41.0
IS	53 30.0
JUL 16	
H-17 51 50.4	
08.5N 082.9W	
h ABOUT 034KM	
SJP EP	17 56 14.1
ALQ EP	17 58 33.0
E	58 39.0
TUC EP	17 58 42.8
BCN EP	17 59 24.2
EUR EP	17 59 47.4
BOZ EP	17 59 59.9
COL EP	18 03 10.0
JUL 16	
GCA EP	20 47 10.2
IS	47 42.4

Date and Station	Phase (GCT)
	h m s
JUL 16	
GUA E(P)	21 21 36.0
JUL 16	
BCN E(P)	21 44 04.5
EL	44 39.5
JUL 16	
EUR IP	21 55 21.0
JUL 16	
ALQ E(P)	22 25 44.0
JUL 16	
ALQ EP	23 51 56.0
E	52 04.5
JUL 17	
ALQ E(P)	01 45 07.0
JUL 17	
EUR EP	02 00 41.5
JUL 17	
GCA EP	02 23 08.7
BOZ IP C	02 24 19.0
I(S)	24 29.0
JUL 17	
H-02 34 26.9	
38.2N 023.7E	
h ABOUT 150KM	
SJP IP	02 46 13.0
ES	55 57.0
CSC IP	02 46 20.0
ES	56 11.0
SIT EP	02 46 40.5
E	47 18.2
E(S)	56 48.0
RCD IP	02 46 46.0
EpP	47 24.0
HHM IP C	02 46 51.6
I	47 09.6
I	56 55.6
IS	57 11.6
SLC IP	02 47 17.6
ALQ IP	02 47 28.0
IpP	48 07.0
EUR IP C	02 47 30.2
IpP	48 08.7
ESKS	57 52.0
GCA EP	02 47 34.0
BCN EP	02 47 42.8
E	48 00.7
EpP	48 21.5
TUC IP C	02 47 47.7
E	48 17.0
EpP	48 26.4
KIP IP'	02 53 02.5
HON IP'	02 53 03.3

Date and Station	Phase (GCT)
	h m s
JUL 17	
COL IP	03 00 34.0
JUL 17	
EUR EP	03 04 03.7
BCN EP	03 04 21.9
ALQ IP	03 04 30.0
JUL 17	
BHP IP	03 12 36.0
IS	13 38.0
JUL 17	
BHP IP	03 17 24.0
IS	18 20.0
JUL 17	
H-04 41 05.1	
49.3N 158.6E	
h ABOUT 050KM	
COL IP	04 47 26.2
HHM EP	04 50 28.6
BOZ IP D	04 50 50.0
I	50 57.0
EUR IP	04 50 59.9
SLC EP	04 51 11.1
BCN IP D	04 51 21.5
EpP	51 35.2
RCD IP	04 51 27.0
E	51 35.0
EpP	51 41.0
GCA EP	04 51 28.9
TUC IP D	04 51 53.0
EpP	52 07.0
ALQ IP	04 51 57.0
E	52 03.0
JUL 17	
TUC EP	05 08 49.3
EUR IP	05 08 51.0
GCA EP	05 09 01.9
BOZ E(P)	05 09 15.0
E	09 18.0
JUL 17	
EUR IP	06 21 52.9
IS	22 15.9
JUL 17	
TUC E(P)	08 19 10.2
JUL 17	
BOZ EP	08 35 25.0
E	35 27.0
E	36 00.0
EUR EP	08 36 01.2

Date and Station	Phase (GCT)
	h m s
JUL 17	
ALQ E(P)	08 59 30.0
JUL 17	
GUA IP	09 42 46.0
IS	42 52.0
JUL 17	
BHP EP	09 59 13.0
JUL 17	
ALQ E(P)	10 06 42.0
JUL 17	
TUC EP	10 23 03.0
JUL 17	
COL IP	11 13 35.5
JUL 17	
BOZ E(P)	11 31 29.0
JUL 17	
BOZ E(P)	12 17 57.0
JUL 17	
BOZ EP	15 06 33.1
JUL 17	
TUC E(P)	15 14 42.5
E	16 09.5
JUL 17	
COL IP	17 30 01.8
JUL 17	
HHM EP	17 58 49.5
I	58 57.5
E	59 34.5
BOZ E(P)	17 59 12.0
I	59 29.0
E	18 00 27.0
JUL 17	
COL IP	18 12 15.0
TUC E(P)	18 19 18.8
JUL 17	
BOZ EP	15 06 33.1
JUL 17	
TUC E(P)	15 14 42.5
E	16 09.5
JUL 17	
COL IP	17 30 01.8
JUL 17	
HHM EP	17 58 49.5
I	58 57.5
E	59 34.5
BOZ E(P)	17 59 12.0
I	59 29.0
E	18 00 27.0
JUL 17	
COL IP	18 12 15.0
TUC E(P)	18 19 18.8

Date and Station	Phase (GCT)
	h m s
JUL 17	
H-18 39 45.9	
57.1N 150.9W	
h ABOUT 033KM	
COL EP	18 41 41.0
BOZ EP	18 45 24.0
EUR EP	18 45 42.5
TUC EP	18 46 53.7
JUL 17	
GUA E(P)	18 45 23.0
I	45 45.0
JUL 17	
H-19 09 16.4	
24.3S 177.1W	
h ABOUT 093KM	
TUC E(P)	19 21 40.4
JUL 17	
ALQ E(P)	19 22 43.0
JUL 17	
ALQ E(P)	19 47 46.0
JUL 17	
BOZ IP	20 46 44.0
JUL 17	
ALQ EP	21 48 18.0
GCA EP	21 48 23.3
IL	48 56.3
TUC EP	21 49 05.8
JUL 17	
H-21 49 58.3	
44.5N 149.9E	
h ABOUT 039KM	
BCN EP	22 01 02.9
ALQ EP	22 01 37.0
JUL 17	
TUC E(P)	21 53 14.1
JUL 17	
GCA EP	22 02 46.8
E(S)	03 17.3
JUL 17	
ALQ E(P)	22 21 59.7
JUL 17	
ALQ EP	22 23 07.0
JUL 17	
BCN IP	22 25 15.7
IL	25 30.0
JUL 17	
H-22 54 42.2	
44.6N 149.2E	
h ABOUT 033KM	
COL IP	23 02 11.8

Date and Station	Phase (GCT)
	h m s
BOZ IP	23 05 22.0
I	05 37.0
EUR EP	23 05 31.5
BCN EP	23 05 51.2
RCD EP	23 05 56.0
GCA E(P)	23 05 57.5
ALQ IP	23 06 24.0
E	06 34.0
JUL 17	
TUC EP	23 05 48.0
JUL 17	
HON IP	23 10 30.5
IS	10 56.0
KIP IP	23 10 31.2
IS	10 58.0
JUL 17	
HHM IP	23 10 10.6
BOZ E(P)	23 10 49.0
JUL 17	
GCA EP	23 37 47.8
IS	37 56.0
JUL 18	
H-03 12 20.1	
60.5N 139.6W	
h ABOUT 033KM	
SIT E(P)	03 13 16.4
COL EP	03 13 45.6
HHM E(P)	03 16 38.0
EL	22 22.4
BOZ EP	03 17 13.8
EUR EP	03 17 47.5
JUL 18	
TUC E(P)	03 18 32.6
JUL 18	
BOZ E(P)	03 24 06.0
JUL 18	
H-03 40 21.5	
36.3N 026.1E	
h ABOUT 115KM	
COL EP	03 52 14.5
SIT E(P)	03 52 50.4
RCD EP	03 52 59.0
HHM EP	03 53 03.4
E	53 27.4
BOZ EP	03 53 10.2
EUR EP	03 53 42.5

Date and Station	Phase (GCT)
	h m s
JUL 18	
TUC EP	04 26 47.2
JUL 18	
BOZ EP	05 14 21.0
JUL 18	
TUC EP	05 55 06.3
JUL 18	
GUA IP	06 51 09.5
JUL 18	
HHM E(P)	07 03 29.0
BOZ EP	07 03 41.0
JUL 18	
COL EP	07 15 58.2
JUL 18	
BUT EP	07 39 46.6
IL	40 06.6
JUL 18	
COL EP	07 46 55.5
JUL 18	
GUA IP	08 26 09.4
ES	26 14.0
JUL 18	
TUC E(P)	08 46 46.8
BOZ EP	08 47 15.0
JUL 18	
BHP IP	10 24 46.0
IS	25 35.0
JUL 18	
H-11 13 14.2	
18.4S 070.9W	
h ABOUT 040KM	
ALQ EP	11 23 38.0
E	23 51.0
TUC EP	11 23 40.0
BCN EP	11 24 13.5
EUR EP	11 24 32.5
BOZ EP	11 24 45.6
JUL 18	
KIP IP	11 13 32.3
IS	13 39.0
HON IP	11 13 32.9
IS	13 40.0
JUL 18	
BOZ IP	11 39 45.0
IL	39 57.0
JUL 18	
TUC E(P)	12 14 42.8
JUL 18	
H-12 45 47.7	
.2N 123.5E	
h ABOUT 097KM	

Date and Station	Phase (GCT)
	h m s
GUA EP	12 51 03.5
KIP IP	12 57 46.0
HON EP	12 57 46.0
EL	13 25 20.0
SIT E(P)	12 59 05.8
BOZ E(P)	13 00 28.0
IP'	04 17.2
EPKKP	15 08.2
E	15 43.5
EUR EP	13 00 33.5
EP'	04 17.0
EPKKP	15 12.0
HHM EP'	13 04 11.3
RCD EP'	13 04 27.0
TUC EP'	13 04 29.6
E	05 06.0
EPKKP	14 41.0
ALQ IP'	13 04 33.4
E	05 10.0
EPKKP	14 32.0
SJP IP D	13 06 14.3
JUL 18	
BUT EP	13 52 24.4
JUL 18	
TUC E(P)	14 40 19.0
JUL 18	
BOZ IP	14 42 49.0
IL	43 01.0
JUL 18	
BOZ IP	14 49 12.0
IL	49 24.0
JUL 18	
BOZ IP	15 58 10.5
JUL 18	
TUC E(P)	17 22 10.3
JUL 18	
H-17 30 50.6	
53.1N 158.4E	
h ABOUT 095KM	
COL EP	17 36 44.4
BOZ IP	17 40 17.0
EUR IP	17 40 30.8
TUC EP	17 41 24.5
ALQ EP	17 41 27.0
E	41 33.0
JUL 18	
TUC EP	18 40 09.0
BCN E(P)	18 40 42.2
EL	41 52.9

Date and Station	Phase (GCT)
	h m s
GCA E(P)	18 40 54.3
EUR EP	18 41 48.8
JUL 18	
EUR EP	19 01 28.7
JUL 18	
GCA E(P)	19 46 50.6
JUL 18	
H-20 05 13.8	
44.6N 149.0E	
h ABOUT 033KM	
COL EP	20 12 42.5
EUR EP	20 16 03.4
ALQ EP	20 16 57.0
JUL 18	
H-20 37 35.9	
11.0N 087.0W	
h ABOUT 033KM	
ALQ EP	20 43 42.0
JUL 18	
TUC EP	20 46 51.0
JUL 18	
TUC EP	21 47 12.3
JUL 18	
TUC E(P)	22 15 38.6
JUL 18	
COL EP	23 14 55.4
JUL 18	
H-23 36 21.0	
60.0N 143.4W	
h ABOUT 033KM	
SIT E(P)	23 37 34.6
EL	38 58.0
COL IP	23 37 40.6
HHM EP D	23 40 58.2
EL	47 23.2
BOZ IP	23 41 30.5
EL	48 00.0
EUR IP	23 42 00.2
SLC EP	23 42 06.3
BCN EP	23 42 32.0
ALQ EP	23 43 09.0
E	43 12.0
EPCP	45 43.0
TUC EP	23 43 13.5
KIP E(P)	23 43 58.0
ET	00 25 49.0
JUL 18	
TUC E(P)	23 38 52.5

Date and Station	Phase (GCT)
	h m s
JUL 19	
ALQ EP	00 08 07.0
E	08 42.0
JUL 19	
GUA E(P)	00 31 14.5
JUL 19	
BHP IP	00 48 58.0
IS	49 25.0
JUL 19	
TUC EP	01 23 02.6
ALQ EP	01 24 04.0
JUL 19	
TUC E(P)	01 32 04.7
JUL 19	
TUC E(P)	01 46 04.0
JUL 19	
TUC E(P)	01 52 51.3
JUL 19	
ALQ EP	02 45 58.0
E	46 04.0
BOZ EP	02 46 09.1
JUL 19	
BOZ E(P)	03 08 43.0
EUR E(P)	03 09 53.5
JUL 19	
TUC E(P)	03 45 05.5
JUL 19	
BOZ E(P)	03 57 35.0
JUL 19	
BOZ EP	04 38 43.0
EUR E(P)	04 39 52.6
JUL 19	
H-05 59 58.9	
49.9N 078.1E	
h ABOUT 000KM	
COL EP	06 10 09.0
BOZ IP C	06 12 34.9
RCD EP	06 12 44.0
EUR IP C	06 13 02.8
BCN EP	06 13 21.0
ALQ IP	06 13 28.0
E	13 34.0
TUC EP	06 13 38.7
JUL 19	
BOZ EP	06 08 42.0
EUR E(P)	06 09 54.5

Date and Station	Phase (GCT)
	h m s
JUL 19	
BCN E(P)	06 28 12.1
EL	29 33.0
TUC E(P)	06 28 51.0
EUR EP	06 28 52.0
JUL 19	
H-06 50 18.9	
13.9S 167.2E	
h ABOUT 198KM	
BCN EP	07 02 51.6
E	03 40.2
EUR IP	07 02 51.7
E	03 39.7
E	03 53.7
EPP	06 22.0
TUC EP	07 03 01.0
E	03 50.0
ALQ EP	07 03 20.0
E	04 06.0
JUL 19	
H-07 31 54.4	
48.8N 154.7E	
h ABOUT 087KM	
COL EP	07 38 30.4
EUR IP	07 42 02.3
IPP	42 16.3
ALQ EP	07 42 58.0
E	43 10.0
JUL 19	
COL EP	07 34 35.0
JUL 19	
BOZ EP	07 39 33.8
IL	39 45.0
JUL 19	
BCN E(P)	08 04 06.8
EL	05 14.0
TUC E(P)	08 04 13.5
EUR EP	08 04 50.7
EL	06 59.7
JUL 19	
BOZ EP	08 08 40.0
EUR E(P)	08 09 52.0
JUL 19	
BOZ E(P)	09 38 41.0
JUL 19	
EUR EP	11 50 28.5
IL	51 17.5
JUL 19	
H-12 30 39.4	
44.4N 149.3E	
h ABOUT 033KM	
COL EP	12 38 10.0
BOZ EP D	12 41 20.0
E	41 33.9
EUR EP	12 41 29.0
E	41 45.5
TUC E(P)	12 42 25.0
JUL 19	
H-13 40 06.6	
15.1S 173.4W	
h ABOUT 033KM	
BCN EP	13 51 48.0
TUC EP	13 51 53.8
EUR EP	13 51 53.9
ALQ IP	13 52 18.0
E	52 22.0
BOZ IP D	13 52 26.0
JUL 19	
GCA E(P)	14 24 37.5
JUL 19	
SJP IP	16 31 40.0
IS	32 07.5
JUL 19	
H-18 10 48.2	
7.5N 121.8E	
h ABOUT 051KM	
COL E(P)	18 23 13.0
BOZ EP'	18 29 14.0
ALQ IP'	18 29 32.0
JUL 19	
COL EP	19 55 33.0
JUL 19	
BOZ EP	19 59 22.0
EUR EP	19 59 53.1
JUL 19	
BOZ EP	21 03 39.0
JUL 19	
ALQ E(P)	23 21 05.0
E	21 10.0
TUC EP	23 21 10.5
EUR EP	23 22 00.1
BOZ EP	23 22 16.0
COL EP	23 23 12.0
JUL 19	
BOZ EP	23 27 26.0
JUL 20	
ALQ E(P)	00 16 51.0
JUL 20	
ALQ E(P)	00 33 08.0
JUL 20	
GCA EP	01 44 40.7
JUL 20	
TUC EP	03 18 48.2
JUL 20	
TUC EP	03 36 05.6
JUL 20	
ALQ E(P)	04 18 57.0
JUL 20	
H-04 29 28.2	
06.7S 154.6E	
h ABOUT 078KM	
COL EP	04 41 44.0
EUR IP	04 42 38.3
E	45 04.1
JUL 20	
RCD E(P)	06 41 31.0
COL EP	06 41 53.0
JUL 20	
RCD EP	06 53 38.0
JUL 20	
H-08 27 26.6	
13.6N 087.9W	
h ABOUT 087KM	
TUC E(P)	08 33 16.5
BOZ E(P)	08 34 39.0
JUL 20	
H-09 34 21.7	
64.5S 176.7E	
h ABOUT 033KM	
EUR EP'	09 53 03.1
BOZ EP'	09 53 16.7
COL EP'	09 53 32.0
JUL 20	
TUC E(P)	10 03 48.8
JUL 20	
COL IP	10 06 32.2
JUL 20	
H-10 22 53.4	
35.2S 179.8W	
h ABOUT 108KM	
TUC E(P)	10 36 01.2
EUR EP	10 36 04.7
JUL 20	
EUR EP	10 53 35.5
JUL 20	
COL IP	10 57 07.2
JUL 20	
COL EP	11 02 09.0
JUL 20	
ALQ E(P)	11 58 21.0
JUL 20	
COL IP	12 28 31.0
JUL 20	
BCN IP	12 53 41.0
JUL 20	
BOZ E(P)	13 04 05.0
ALQ E(P)	13 04 25.0
JUL 20	
COL IP	14 48 18.0
JUL 20	
BOZ E(P)	18 43 15.5
JUL 20	
H-18 49 43.5	
19.8N 109.0W	
h ABOUT 033KM	
TUC EP	18 52 42.5
E	55 11.0
BCN EP	18 53 41.2
EL	19 00 10.0
GCA I(P)	18 53 47.5
EUR IP	18 54 21.7
UKI E(P)	18 54 47.0
RCD EP	18 55 06.0
BOZ EP C	18 55 13.0
EL	19 02 00.0
BUT E(P)	18 55 18.0
ES	59 41.0
HHM EP	18 55 40.1
BHP EP	18 55 56.0
COL EP	18 58 49.0
HON ES	19 04 55.0
EL	10 07.0
KIP ES	19 04 56.0
EL	08 28.0
JUL 20	
TUC EP	19 15 03.7
JUL 20	
TUC E(P)	19 56 03.0
JUL 20	
HHM E(P)	21 59 45.0
BOZ E(P)	22 00 19.0
JUL 20	
H-22 37 23.6	
51.2N 179.6W	
h ABOUT 033KM	
COL EP	22 42 10.0

Date and Station	Phase	(GCT) h m s
HHM	EP	22 45 06.9
BOZ	IP C	22 45 29.5
	I	45 34.0
ALQ	EP	22 46 43.5
	E	46 48.0
JUL 20		
H-22 56 01.3		
34.4S 179.2E		
h ABOUT 162KM		
TUC	EP	23 09 00.3
ALQ	EP	23 09 20.0
	EPP	13 16.5
JUL 20		
GCA	EP	23 12 44.5
JUL 20		
TUC	E(P)	23 23 02.5
JUL 20		
ALQ	E(P)	23 36 00.0
JUL 21		
SJP	IP	00 11 08.6
	IS	11 25.0
JUL 21		
TUC	E(P)	00 39 47.8
JUL 21		
H-01 07 55.8		
19.6N 109.1W		
h ABOUT 033KM		
TUC	EP D	01 10 57.8
ALQ	EP	01 11 34.0
	E	11 44.0
BCN	EP	01 11 55.5
GCA	EP	01 12 00.7
EUR	IP	01 12 35.4
BOZ	EP	01 13 27.0
JUL 21		
H-01 09 25.8		
19.8N 108.8W		
h ABOUT 031KM		
TUC	EP	01 12 26.5
ALQ	EP	01 13 01.0
	E	13 07.0
BCN	EP	01 13 23.0
	EL	19 46.0
EUR	EP	01 14 04.2
UKI	EP	01 14 30.0
RCD	E(P)	01 14 52.0
BOZ	EP	01 14 55.0
BUT	E(P)	01 14 59.0
	E	19 37.6
CSC	EP	01 15 23.0
	EL	25 42.0
SJP	E(P)	01 17 09.2
KIP	ES	01 24 40.0
	EL	28 08.0
HON	ES	01 24 44.0
	EL	28 26.0
JUL 21		
KIP	EP	01 28 24.0
HON	EP	01 28 24.0
JUL 21		
EUR	E(P)	02 11 30.0
JUL 21		
BOZ	EP	02 31 03.0
JUL 21		
H-02 47 48.6		
31.3S 180.0W		
h ABOUT 433KM		
TUC	EP	03 00 07.0
JUL 21		
TUC	E(P)	03 01 21.5
JUL 21		
ALQ	E(P)	03 20 28.0
JUL 21		
GUA	E(P)	03 28 28.5
JUL 21		
H-03 27 08.7		
42.2N 125.5W		
h ABOUT 033KM		
EUR	E(P)	03 29 00.0
BOZ	E(P)	03 29 42.0
JUL 21		
H-03 41 04.8		
18.8N 109.3W		
h ABOUT 033KM		
TUC	EP	03 44 16.0
BOZ	EP	03 46 45.0
JUL 21		
H-03 48 59.1		
26.0S 178.0W		
h ABOUT 222KM		
HON	IP	03 57 38.6
KIP	IP	03 57 39.5
GUA	IP	03 57 57.0
UKI	EP	04 00 59.5
BCN	IP C	04 01 15.5
	EPP	04 32.7
TUC	EP C	04 01 18.6
	E	02 08.7
	ES	11 42.0
	EPKKP	19 15.5
EUR	IP C	04 01 21.1
	IS	11 32.3
SLC	IP	04 01 36.5
GCA	IP	04 01 28.7
ALQ	IP	04 01 40.0
	E	01 44.0
BUT	IP	04 01 47.9
	E	02 06.7
	ISKS	12 12.0
BOZ	IP	04 01 49.8
	E	02 39.0
COL	EP	04 01 50.0
RCD	EP	04 02 07.0
	E	02 19.0
JUL 21		
SLC	E(P)	04 11 08.0
	E	11 35.0
JUL 21		
BCN	EP	04 11 24.5
	E	11 38.8
JUL 21		
TUC	E(P)	04 30 05.8
JUL 21		
TUC	E(P)	04 57 19.5
JUL 21		
ALQ	EP	05 16 23.0
JUL 21		
ALQ	EP	05 19 04.0
JUL 21		
TUC	EP	05 23 51.0
JUL 21		
H-05 43 04.9		
01.9S 104.7W		
h ABOUT 033KM		
EUR	E(P)	05 50 59.0
JUL 21		
BCN	EP	06 08 29.7
JUL 21		
TUC	EP	06 24 34.5
JUL 21		
TUC	E(P)	06 40 02.0
BCN	E(P)	06 41 03.0
	E(L)	42 40.5
JUL 21		
SJP	EP	06 52 08.5
JUL 21		
H-07 01 59.3		
13.1N 088.4W		
h ABOUT 068KM		
BHP	IP	07 04 19.0
CSC	IP	07 06 51.0
	E	07 10.0
ALQ	IP	07 07 39.5
	E	07 46.0
	E	10 57.0
	E	11 15.0
TUC	EP	07 07 45.0
GCA	EP	07 08 18.9
RCD	EP	07 08 29.0
	E	08 33.0
EUR	EP	07 08 54.1
BOZ	IP C	07 09 12.0
BUT	EP	07 09 18.8
COL	EP	07 12 36.0
JUL 21		
ALQ	EP	07 10 57.0
	E	11 15.0
TUC	EP	07 10 59.0
BCN	EP	07 11 12.9
	EPP	11 30.0
JUL 21		
H-07 33 19.6		
20.0S 069.8W		
h ABOUT 084KM		
TUC	EP	07 43 52.5
BCN	EP	07 44 25.5
BOZ	EP	07 44 56.0
	EPP	45 19.5
JUL 21		
SJP	EP	07 40 53.5
	E	41 02.0
JUL 21		
SJP	EP	08 37 55.5
	EL	38 45.2
JUL 21		
H-09 56 16.6		
72.1N 130.2E		
h ABOUT 033KM		
COL	EP	10 02 13.0
BUT	EP	10 05 43.2
	E	06 46.2
BOZ	IP D	10 05 46.0
RCD	E(P)	10 06 08.0
EUR	IP	10 06 20.4

Date and Station	Phase (GCT)
	h m s
GCA EP	10 06 42.8
BCN EP	10 06 45.0
E	07 16.5
ALQ IP	10 07 03.0
E	07 25.0
E	09 29.0
TUC EP	10 07 11.5
JUL 21	
BOZ E(P)	10 20 31.0
JUL 21	
TUC EP	10 39 15.2
JUL 21	
BOZ EP	12 03 38.5
JUL 21	
H-13 13 00.2	
11.5N 121.9E	
h ABOUT 034KM	
GUA EP	13 17 57.5
COL EP	13 25 07.0
BOZ EPP	13 27 18.0
ALQ EP'	13 31 43.0
E	31 50.0
BCN EPP	13 32 00.0
SJP EP'	13 32 49.0
E	32 56.0
JUL 21	
BOZ E(P)	13 15 06.0
JUL 21	
COL EP	16 58 06.0
JUL 21	
ALQ EP	18 02 38.0
JUL 21	
H-18 05 40.2	
15.3N 093.2W	
h ABOUT 033KM	
ALQ EP	18 10 43.0
TUC EP	18 10 45.7
JUL 21	
GCA EP	20 13 18.9
E(S)	13 48.9
JUL 21	
H-21 01 49.5	
4.6S 153.3E	
h ABOUT 060KM	
GUA IP	21 06 20.0
KIP EP	21 11 12.0
ES	18 49.0
EL	25 18.0

Date and Station	Phase (GCT)
	h m s
HON EP	21 11 13.0
E(S)	18 52.0
E	21 22.0
EL	25 16.0
BOZ EP	21 15 15.5
E	15 40.0
JUL 21	
TUC EP	21 06 29.2
ALQ E(P)	21 07 06.0
EUR EP	21 08 06.0
JUL 21	
BCN E(P)	21 15 22.0
JUL 21	
ALQ E(P)	21 19 37.0
JUL 21	
BOZ E(P)	22 37 12.5
EL	37 43.0
JUL 21	
BCN IP	22 44 00.8
JUL 21	
BCN IP	23 12 35.7
IL	12 49.8
JUL 22	
ALQ E(P)	00 44 23.0
JUL 22	
H-01 06 43.8	
41.8S 075.9W	
h ABOUT 033KM	
TUC EP	01 18 54.0
ALQ EP	01 18 59.0
E	19 07.0
BOZ EP	01 19 53.0
JUL 22	
GUA EP	01 34 32.1
JUL 22	
TUC E(P)	03 16 16.8
E	17 08.0
JUL 22	
BOZ E(P)	05 42 25.0
JUL 22	
BOZ E(P)	06 41 27.0
E	42 22.0
JUL 22	
GUA EP	06 57 15.0
JUL 22	
GUA E(P)	06 58 15.5
E	58 18.0
JUL 22	
H-07 04 34.5	
54.2S 132.4W	
h ABOUT 033KM	
TUC EP	07 17 23.7

Date and Station	Phase (GCT)
	h m s
ALQ IP	07 17 39.0
E	17 43.0
JUL 22	
TUC E(P)	08 26 17.2
JUL 22	
H-08 51 30.7	
04.1N 125.7E	
h ABOUT 237KM	
GUA EP	08 55 58.0
JUL 22	
H-09 53 32.9	
31.3N 116.5W	
h ABOUT 016KM	
JUL 22	
BCN I(P)	09 54 47.2
E	55 05.5
IL	56 58.0
TUC EP	09 54 49.2
GCA EP	09 55 17.2
EUR EP	09 55 34.0
JUL 22	
H-10 34 07.6	
31.6N 114.0W	
h ABOUT 016KM	
TUC EP	10 34 52.5
EL	35 37.0
BCN IP	10 35 16.5
I	35 24.8
EL	36 48.0
GCA EP	10 35 37.2
I	36 06.6
EUR IP	10 36 08.0
SLC E(P)	10 36 24.6
RCD E(P)	10 37 46.0
JUL 22	
TUC E(P)	10 58 49.0
JUL 22	
TUC E(P)	11 17 24.0
JUL 22	
TUC EP	11 20 20.8
JUL 22	
TUC E(P)	11 22 02.8
BCN E(P)	11 22 12.5
EL	22 41.8
GCA E(P)	11 22 28.9
E	22 39.1
EUR EP	11 23 08.4
EL	25 39.4
JUL 22	
TUC E(P)	11 32 06.8

Date and Station	Phase (GCT)
	h m s
JUL 22	
H-12 19 38.5	
22.2S 175.4W	
h ABOUT 033KM	
TUC E(P)	12 31 59.2
GCA E(P)	12 32 10.6
ALQ EP	12 32 21.0
E	32 34.0
BOZ E(P)	12 32 30.0
JUL 22	
BCN IP C	12 34 00.8
IS	34 02.2
JUL 22	
TUC E(P)	12 38 40.4
JUL 22	
TUC E(P)	13 15 57.0
JUL 22	
TUC E(P)	14 33 13.3
JUL 22	
ALQ IP	14 52 50.0
JUL 22	
SJP EP	15 14 09.2
EL	14 27.2
JUL 22	
ALQ E(P)	15 24 33.0
E	24 56.0
JUL 22	
TUC E(P)	16 46 46.4
JUL 22	
EUR EP	17 31 00.8
JUL 22	
H-17 51 14.8	
59.7N 153.4W	
h ABOUT 033KM	
COL IP	17 52 41.0
E	52 50.0
JUL 22	
TUC EP	18 10 01.0
JUL 22	
EUR EP	19 01 28.8
EL	02 39.8
JUL 22	
ALQ E(P)	19 29 40.0
JUL 22	
H-20 15 04.6	
13.2N 144.3E	
h ABOUT 146KM	
GUA IP	20 15 27.0
EUR IP	20 27 45.5
IPP	28 20.5

Date and Station	Phase	Phase (GCT) h m s
JUL 22		
ALQ	EP	22 13 31.0
	E	13 37.0
JUL 22		
COL	IP	22 15 21.5
JUL 22		
EUR	EP	22 37 27.5
JUL 22		
BOZ	E(P)	22 44 17.0
JUL 22		
BOZ	EP	22 45 29.0
JUL 22		
TUC	E(P)	22 52 51.2
JUL 22		
BCN	IP D	23 41 04.1
	I	41 08.3
	IS	41 31.3
	IL	41 35.3
EUR	EP	23 41 50.0
	I	42 07.9
	IL	43 14.0
JUL 23		
COL	IP	00 50 50.8
JUL 23		
SJP	EP	01 19 11.5
	EL	19 23.5
JUL 23		
TUC	E(P)	01 48 13.5
JUL 23		
H-01 53 11.4		
28.8S 070.3W		
h ABOUT 037KM		
TUC	E(P)	02 04 31.3
ALQ	EP	02 04 34.0
	E	04 51.0
EUR	EP	02 05 19.5
JUL 23		
SJP	IP	01 58 59.6
	IL	59 08.5
JUL 23		
TUC	EP	02 56 33.5
JUL 23		
BOZ	IP	04 19 32.8
	IL	19 44.0
JUL 23		
TUC	EP	04 38 04.7
JUL 23		
H-04 57 54.3		
10.5N 083.9W		
h ABOUT 114KM		
BHP	IP	04 59 03.0
JUL 23		
GUA	EP	06 30 54.9
JUL 23		
TUC	E(P)	06 40 46.3
JUL 23		
GUA	E(P)	07 00 52.0
	E(S)	01 37.0
JUL 23		
EUR	EP	07 12 21.9
JUL 23		
H-07 11 28.5		
60.7N 147.9W		
h ABOUT 009KM		
COL	EP	07 12 34.0
JUL 23		
GUA	E(P)	07 24 17.9
JUL 23		
COL	EP	07 59 19.0
JUL 23		
UKI	E(P)	08 48 03.0
	E	48 09.7
EUR	EP	08 49 22.5
BCN	EP	08 50 03.0
TUC	EP	08 51 03.0
ALQ	EP	08 51 23.5
JUL 23		
COL	EP	09 03 28.0
JUL 23		
ALQ	E(P)	09 35 33.0
JUL 23		
COL	EP	09 42 25.0
JUL 23		
GUA	E(P)	09 42 45.5
JUL 23		
H-09 40 29.2		
00.7S 016.3W		
h ABOUT 033KM		
ALQ	EP	09 53 30.0
JUL 23		
COL	IP	10 23 23.2
JUL 23		
ALQ	EP	10 25 02.0
JUL 23		
COL	EP	13 22 02.0
JUL 23		
BCN	EP	13 30 29.4
	EL	30 50.0
EUR	IP	13 30 41.0
	IL	31 17.0
JUL 23		
H-14 19 01.1		
57.1N 150.4W		
h ABOUT 033KM		
COL	IP	14 20 56.0
HHM	EP	14 24 12.0
BUT	E(P)	14 24 28.0
BOZ	IP	14 24 36.0
EUR	IP	14 24 55.7
TUC	EP	14 26 07.9
ALQ	EP	14 26 08.0
	E	26 13.0
JUL 23		
BCN	EP	14 27 25.5
EUR	EP	14 28 09.0
ALQ	IP	14 28 32.0
	E	28 37.0
	E	28 41.0
JUL 23		
ALQ	EP	15 08 32.0
JUL 23		
GUA	EP	15 22 24.5
JUL 23		
H-15 56 27.6		
59.7N 145.8W		
h ABOUT 020KM		
COL	EP	15 57 47.0
HHM	EP	16 01 16.5
BOZ	E(P)	16 01 51.0
JUL 23		
H-19 08 06.6		
59.9N 149.2W		
h ABOUT 055KM		
COL	IP	19 09 22.2
	ES	10 02.0
HHM	EP	19 13 10.5
	I	13 18.0
BUT	EP	19 13 32.5
BOZ	IP D	19 13 39.0
EUR	IP D	19 14 04.4
	IPCP	17 10.5
SLC	E(P)	19 14 08.5
BCN	IP D	19 14 35.0
GCA	IP	19 14 39.9
ALQ	IP	19 15 14.0
	E	15 25.0
	EPCP	17 33.0
JUL 23		
H-19 18 56.8		
27.8S 066.4W		
h ABOUT 130KM		
ALQ	IP	19 30 14.5
	E	30 30.0
GCA	IP	19 30 38.9
BCN	EP	19 30 44.0
EUR	IP	19 31 00.9
	I	31 42.9
BOZ	EP	19 31 12.0
	E	31 55.0
HHM	E(P)	19 31 32.0
JUL 23		
ALQ	EP	20 22 17.0
JUL 23		
ALQ	E(P)	20 27 20.0
GCA	EP	20 28 15.9
BCN	EP	20 28 26.7
	EL	28 48.8
JUL 23		
ALQ	EP	20 30 37.0
JUL 23		
ALQ	EP	20 44 26.0
JUL 23		
BCN	EP	21 42 16.3
	EL	42 44.7
JUL 23		
ALQ	E(P)	21 54 35.0
JUL 23		
ALQ	EP	21 54 52.0
	E	55 03.0
JUL 23		
ALQ	E(P)	22 01 23.0
JUL 23		
BOZ	EP	22 42 14.0
JUL 23		
ALQ	EP	23 07 17.0
	E	07 31.0
JUL 23		
H-23 57 55.1		
20.1N 096.4W		
h ABOUT 033KM		
ALQ	EP	24 01 53.0
GCA	E(P)	24 02 43.0
EUR	EP	24 03 24.5
JUL 24		
H-00 46 27.1		
18.5N 100.3W		
h ABOUT 147KM		
ALQ	EP	00 50 21.0
BOZ	EP	00 52 12.5
	F	52 24.5

Date and Station	Phase (GCT)
	h m s
JUL 24	
COL EP	01 19 35.0
JUL 24	
ALQ E(P)	01 19 36.5
JUL 24	
H-01 39 39.0	
14.2N 091.6W	
h ABOUT 065KM	
CSC EP	01 44 32.0
ALQ IP	01 44 55.5
E	45 04.0
E	45 07.0
GCA EP	01 45 34.6
BCN IP C	01 45 45.0
E	46 05.0
SLC EP	01 46 01.3
EUR IP C	01 46 10.9
BOZ EP	01 46 32.3
COL IP	01 50 01.2
JUL 24	
EUR EP	02 27 28.4
JUL 24	
H-04 08 08.4	
80.4N 110.5W	
h ABOUT 033KM	
COL EP	04 12 23.0
BOZ EP	04 14 59.5
ALQ EP	04 16 27.0
JUL 24	
ALQ EP	04 49 25.0
BOZ EP	04 49 28.0
JUL 24	
COL EP	05 00 57.0
JUL 24	
COL EP	05 45 44.0
JUL 24	
COL IP	05 49 30.5
JUL 24	
BOZ EP	05 54 03.5
JUL 24	
EUR IP	06 00 38.3
BCN EP	06 00 51.5
JUL 24	
H-06 50 52.8	
46.9N 153.9E	
h ABOUT 033KM	
GUA EP	06 57 34.0
COL IP	06 57 49.1
IS	07 03 26.0
SIT E(P)	06 58 56.0
KIP EP	06 59 17.0
HHM EP	07 00 45.8
UKI EP	07 00 51.5
BUT EP	07 01 00.2
ES	09 08.2
BOZ IP C	07 01 06.2
I	01 19.0
EUR IP C	07 01 15.5
SLC EP	07 01 26.1
BCN IP C	07 01 36.0
RCD IP	07 01 42.0
E(S)	10 32.0
GCA EP	07 01 44.2
ALQ IP	07 02 11.5
E	02 22.0
E	02 29.0
CSC EP	07 03 28.0
E(S)	14 00.0
BHP EP'	07 09 10.0
JUL 24	
COL EP	07 07 53.0
BOZ E(P)	07 08 21.0
JUL 24	
EUR EP	07 10 55.0
IL	12 14.7
JUL 24	
H-07 13 01.2	
46.9N 153.8E	
h ABOUT 033KM	
COL IP	07 19 58.2
BOZ EP	07 23 15.0
EUR EP	07 23 25.3
JUL 24	
BOZ E(P)	07 14 02.0
JUL 24	
H-07 35 48.4	
56.3N 157.8W	
h ABOUT 024KM	
COL IP	07 38 12.5
EUR IP	07 42 15.9
BCN EP	07 42 44.0
JUL 24	
H-08 12 40.0	
47.2N 153.8E	
h ABOUT 033KM	
COL IP	08 19 35.8
IS	25 14.0
SIT E(P)	08 20 38.3
ES	27 00.0
KIP EP	08 21 05.0
HHM EP	08 22 32.8
ES	30 32.3
UKI E(P)	08 22 41.0
BUT EP	08 22 46.2
I	31 02.2
BOZ IP C	08 22 51.2
EUR IP	08 23 01.9
SLC EP	08 23 12.1
BCN EP	08 23 20.5
RCD IP	08 23 28.5
ES	32 20.0
GCA EP	08 23 29.5
ALQ IP	08 23 57.5
E	23 06.0
CSC EP	08 25 16.0
ES	35 34.0
JUL 24	
H-08 29 47.6	
46.9N 153.9E	
h ABOUT 020KM	
COL EP	08 36 46.0
JUL 24	
BOZ E(P)	08 35 43.0
JUL 24	
UKI EP	08 38 34.5
JUL 24	
BCN EP	08 52 01.5
JUL 24	
BOZ EP	08 57 08.0
JUL 24	
COL EP	09 07 25.0
JUL 24	
EUR EP	09 10 15.0
JUL 24	
ALQ E(P)	09 11 36.0
JUL 24	
BOZ EP	09 12 14.0
JUL 24	
H-09 07 31.1	
47.0N 153.7E	
h ABOUT 033KM	
COL EP	09 14 28.0
EUR EP	09 17 55.3
JUL 24	
COL EP	09 08 40.0
JUL 24	
H-09 17 00.5	
46.8N 154.1E	
h ABOUT 033KM	
COL IP	09 23 57.1
HHM E(P)	09 26 52.0
EUR IP	09 27 23.8
RCD EP	09 27 49.0
JUL 24	
H-09 35 18.4	
46.8N 153.8E	
h ABOUT 031KM	
COL IP	09 42 17.0
HHM E(P)	09 45 12.0
BOZ EP	09 45 34.0
EUR IP	09 45 43.6
BCN EP	09 46 02.6
RCD EP	09 46 10.0
ALQ EP	09 46 38.0
E	46 53.0
JUL 24	
ALQ EP	09 43 19.0
E	43 30.0
JUL 24	
H-10 02 16.4	
46.8N 153.8E	
h ABOUT 033KM	
HHM EP	10 12 10.7
BUT EP	10 12 25.7
BOZ IP C	10 12 31.2
EUR IP C	10 12 40.7
BCN EP	10 13 00.4
RCD EP	10 13 05.0
E	13 18.0
ALQ EP	10 13 36.0
E	13 46.0
JUL 24	
H-10 54 52.5	
13.1N 145.0E	
h ABOUT 043KM	

Date and Station	Phase	(GCT) h m s
GUA	IP	10 55 07.7
COL	IP	11 05 50.2
HHM	IP D	11 07 36.4
	I	07 53.7
BUT	EP	11 07 42.2
EUR	IP C	11 07 42.4
BOZ	IP C	11 07 47.5
BCN	EP	1 07 51.5
	E>P	08 04.3
ALQ	EP	11 08 22.0
	E	10 11.0
	E	12 08.0
JUL 24		
UKI	EP	10 57 21.7
EUR	EP	10 58 34.7
HHM	E(P)	10 59 25.2
BOZ	EP	10 59 29.0
COL	EP	10 59 34.0
JUL 24		
BOZ	EP	11 03 04.0
JUL 24		
H-12 09 27.0		
46.8N 154.1E		
h ABOUT 033KM		
COL	IP	12 16 23.9
BOZ	E(P)	12 19 41.0
JUL 24		
COL	IP	12 36 26.1
JUL 24		
BOZ	E(P)	12 34 02.0
JUL 24		
H-12 35 59.5		
46.9N 154.0E		
h ABOUT 033KM		
COL	IP	12 42 55.6
BOZ	EP	12 46 13.8
	E	46 24.9
EUR	EP	12 46 23.3
ALQ	E(P)	12 47 22.0
KIP	ES	12 51 20.0
	EL	57 09.0
HON	ES	12 51 22.0
	EL	56 56.0
JUL 24		
GUA	EP	13 04 34.8
JUL 24		
H-13 25 18.3		
47.0N 153.7E		
h ABOUT 033KM		
COL	IP	13 32 15.3
	IS	37 52.0
SIT	E(P)	13 33 12.5
KIP	EP	13 33 41.0
	I	34 07.0
	I	40 34.0
HON	EP	13 33 44.0
	I	40 36.0
	E	44 04.0
	EL	46 08.0
HHM	EP	13 35 11.3
	ES	43 12.1
BUT	EP	13 35 27.2
BOZ	IP C	13 35 32.2
	I	35 39.0
	ES	43 52.0
EUR	IP C	13 35 42.2
BCN	EP	13 36 01.5
RCD	EP	13 36 07.0
GCA	EP	13 36 08.9
ALQ	IP	13 36 37.0
	E	36 46.0
JUL 24		
GUA	E(P)	13 37 14.0
JUL 24		
H-13 40 45.3		
60.3N 148.3W		
h ABOUT 035KM		
COL	IP	13 41 54.6
BOZ	EP	13 46 17.5
JUL 24		
H-13 47 48.6		
6.6S 154.8E		
h ABOUT 062KM		
GUA	EP	13 52 40.9
	E	57 07.0
KIP	EP	13 57 08.0
COL	IP	14 00 06.1
EUR	IP C	14 01 00.5
BCN	EP	14 01 04.5
	EPP	04 48.0
HHM	EP	14 01 08.6
BOZ	EP	14 01 16.0
GCA	E(P)	14 01 16.0
JUL 24		
EUR	EP	14 11 08.8
JUL 24		
BOZ	E(P)	14 23 25.0
JUL 24		
H-14 25 58.5		
46.8N 153.6E		
h ABOUT 033KM		
COL	IP	14 32 56.8
BOZ	EP	14 36 14.0
	E	36 18.0
EUR	EP	14 36 22.8
ALQ	EP	14 37 18.0
JUL 24		
H-14 47 43.5		
46.8N 153.8E		
h ABOUT 033KM		
COL	EP	14 54 41.0
BOZ	EP	14 57 58.0
EUR	EP	14 58 07.8
JUL 24		
BOZ	E(P)	15 31 48.0
JUL 24		
BOZ	E(P)	15 49 57.0
JUL 24		
COL	IP	16 29 04.0
BOZ	E(P)	16 31 57.0
EUR	E(P)	16 32 59.5
ALQ	E(P)	16 33 39.0
JUL 24		
H-16 34 29.2		
47.2N 153.9E		
h ABOUT 033KM		
COL	IP	16 41 25.5
HHM	EP	16 44 22.5
	E	44 28.0
BOZ	EP	16 44 42.2
EUR	IP	16 44 51.9
TUC	EP	16 45 41.5
ALQ	EP	16 45 47.0
	E	45 57.0
HON	ES	16 49 54.0
	EL	55 32.0
JUL 24		
H-17 02 49.2		
47.1N 153.6E		
h ABOUT 033KM		
COL	IP	17 09 46.2
	IS	15 24.0
HON	EP	17 11 12.0
	I	18 08.0
	E	21 38.0
	EL	23 46.0
KIP	EP	17 11 14.0
	I	18 07.0
	E	21 36.0
	EL	23 46.0
HHM	EP	17 12 42.2
UKI	E(P)	17 12 49.3
BUT	EP	17 12 58.2
BOZ	EP C	17 13 03.0
	IS	21 20.0
EUR	IP C	17 13 12.8
SLC	IP	17 13 23.8
BCN	EP	17 13 32.5
RCD	EP	17 13 39.0
GCA	EP	17 13 40.0
TUC	EP	17 14 03.0
	E	23 18.0
	EP'P'	41 52.0
ALQ	IP	17 14 08.0
	E	14 11.0
CSC	EP	17 15 25.0
	ES	25 44.0
JUL 24		
GUA	EP	17 09 07.0
JUL 24		
H-17 17 32.3		
46.9N 154.0E		
h ABOUT 033KM		
COL	IP	17 24 28.4
BOZ	E(P)	17 27 41.0
JUL 24		
BHP	EP	17 20 20.0
JUL 24		
ALQ	E(P)	17 26 12.0
JUL 24		
BCN	EP	17 30 26.5
	I(S)	30 46.1
JUL 24		
H-17 48 59.0		
45.1N 150.5E		
h ABOUT 033KM		
COL	EP	17 56 20.0
HHM	EP	17 59 12.0
	E	59 24.0

Date and Station	Phase (GCT)
	h m s
BOZ EP	17 59 33.0
ALQ EP	18 00 34.0
E	00 43.0
E	00 47.0
JUL 24	
COL IP	17 57 39.1
JUL 24	
COL EP	18 16 23.0
JUL 24	
ALQ EP	18 29 22.0
JUL 24	
ALQ EP	18 32 00.2
E	32 09.0
JUL 24	
H-18 50 04.1	
47.0N 153.8E	
h ABOUT 033KM	
COL IP	18 57 00.6
HHM EP	18 59 56.4
E	19 00 07.9
BOZ IP	19 00 17.5
I	00 24.0
EUR IP	19 00 27.2
BCN E(P)	19 00 48.0
E	00 59.0
TUC EP	19 01 18.2
ALQ EP	19 01 22.0
E	01 35.0
JUL 24	
H-18 52 02.1	
46.7N 153.9E	
h ABOUT 033KM	
COL EP	18 59 00.0
BOZ IP	19 02 17.2
EUR EP	19 02 27.4
ALQ EP	19 03 19.5
E	03 33.0
JUL 24	
H-18 55 14.1	
46.9N 154.0E	
h ABOUT 033KM	
COL IP	19 02 10.3
BOZ EP	19 05 31.0
EUR EP	19 05 40.5
ALQ EP	19 06 32.0
E	06 43.0
E	06 49.0
JUL 24	
BOZ E(P)	18 59 05.0

Date and Station	Phase (GCT)
	h m s
ALQ EP	19 00 56.0
JUL 24	
H-19 06 54.3	
60.0N 146.2W	
h ABOUT 033KM	
COL EP	19 08 08.0
BOZ EP	19 12 19.0
E	12 28.0
JUL 24	
ALQ E(P)	19 27 30.0
JUL 24	
H-19 35 31.4	
33.9N 141.7E	
h ABOUT 073KM	
BOZ EP	19 47 16.3
JUL 24	
BCN IP	19 36 56.3
IS	37 08.0
COL E(P)	19 43 06.0
JUL 24	
H-20 29 11.5	
85.9N 020.6E	
h ABOUT 033KM	
COL IP	20 35 10.6
HHM EP	20 37 23.9
BOZ IP C	20 37 45.2
BCN EP	20 38 58.2
ALQ EP	20 39 01.7
E	39 11.0
TUC EP	20 39 21.0
JUL 24	
BOZ EP	20 33 20.8
JUL 24	
ALQ EP	20 35 28.0
JUL 24	
BOZ EP	21 29 22.4
JUL 24	
ALQ EP	21 32 49.0
E	32 56.0
BOZ EP	21 34 15.2
JUL 24	
TUC E(P)	21 36 17.2
BCN E(P)	21 36 50.5
EL	38 15.0
JUL 24	
H-21 54 54.0	
57.7N 152.2W	
h ABOUT 010KM	
COL IP	21 56 46.5

Date and Station	Phase (GCT)
	h m s
HHM EP	22 00 15.9
E	00 23.8
BUT EP	22 00 35.1
BOZ EP	22 00 42.0
EUR IP	22 01 02.3
RCD EP	22 01 30.0
BCN EP	22 01 31.4
TUC EP	22 02 13.2
ALQ EP	22 02 14.0
E	02 17.0
EPCP	04 29.0
JUL 24	
H-22 11 38.2	
47.0N 153.9E	
h ABOUT 033KM	
COL IP	22 18 34.1
BOZ EP	22 21 55.0
ALQ E(P)	22 22 55.0
JUL 24	
ALQ E(P)	22 24 58.0
GCA EP	22 25 03.6
IS	25 36.9
BCN E(P)	22 25 39.0
EL	27 02.5
TUC EP	22 25 46.5
E	26 44.4
JUL 24	
EUR EP	22 27 43.6
JUL 24	
RCD EP	23 04 19.0
JUL 24	
ALQ EP	23 43 37.0
JUL 24	
ALQ E(P)	23 46 50.0
JUL 25	
ALQ EP	00 51 27.0
JUL 25	
TUC EP	01 06 03.6
ALQ EP	01 06 10.0
JUL 25	
EUR EP	01 26 12.7
JUL 25	
ALQ EP	01 32 23.0
JUL 25	
H-01 33 20.6	
52.8N 159.3E	
h ABOUT 070KM	
COL EP	01 39 14.0

Date and Station	Phase (GCT)
	h m s
BOZ E(P)	01 42 46.5
EUR EP	01 43 01.2
JUL 25	
ALQ EP	01 36 10.0
JUL 25	
H-02 16 02.6	
46.7N 153.8E	
h ABOUT 033KM	
COL EP	02 23 01.0
E	23 11.0
BOZ EP	02 26 17.8
E	26 33.5
ALQ EP	02 27 26.0
JUL 25	
ALQ E(P)	02 49 37.0
JUL 25	
ALQ E(P)	02 50 45.0
JUL 25	
GCA E(P)	03 48 43.2
ES	49 10.7
EUR EP	03 49 13.1
EL	50 11.0
JUL 25	
COL IP	04 41 41.8
JUL 25	
BOZ EP	05 26 16.5
E	26 22.0
JUL 25	
COL EP	06 27 37.0
JUL 25	
COL EP	06 29 46.0
JUL 25	
COL EP	06 47 52.0
JUL 25	
ALQ EP	07 19 42.0
JUL 25	
EUR EP	08 17 31.6
EL	18 16.6
JUL 25	
TUC EP	08 42 39.2
JUL 25	
BOZ EP	09 11 57.0
JUL 25	
BOZ EP	12 09 57.0
JUL 25	
H-12 20 22.2	
19.9S 176.2W	
h ABOUT 205KM	
KIP IP	12 28 17.5
HON EP	12 28 18.0

Date and Station	Phase	(GCT) h m s
GUA	IP	12 29 02.8
UKI	E(P)	12 31 52.5
BCN	IP C	12 32 12.0
	E	33 13.5
TUC	IP C	12 32 18.0
	E	33 17.0
	E	33 39.0
EUR	IP C	12 32 18.1
GCA	IP	12 32 27.9
ALQ	IP	12 32 40.0
	E	32 45.0
	E	33 41.0
BUT	E(P)	12 32 42.0
BOZ	IP	12 32 48.0
	I	33 04.0
RCD	EP	12 33 08.0
	E	33 18.0
	E	34 23.0
JUL 25		
TUC	E(P)	12 28 04.5
JUL 25		
COL	EP	12 43 02.0
JUL 25		
BUT	IP	13 34 55.1
	IS	35 21.0
BOZ	EP	13 34 55.0
	IL	35 34.0
BZM	EP	13 35 07.0
	EL	35 37.0
HHM	EP	13 35 18.4
	E	35 31.0
	EL	36 25.5
EUR	IP	13 35 30.5
	IL	36 43.0
JUL 25		
ALQ	EP	13 48 30.0
	E	48 36.0
JUL 25		
COL	EP	15 00 39.0
JUL 25		
COL	EP	15 21 47.0
JUL 25		
BOZ	E(P)	15 41 24.0
JUL 25		
BOZ	EP	16 10 08.0
JUL 25		
H-18 04 11.2		
46.8N 154.1E		
h ABOUT 033KM		
COL	IP	18 11 07.0
BOZ	EP	18 14 25.0
	E	14 35.0
EUR	EP	18 14 34.5
ALQ	E(P)	18 15 27.0
JUL 25		
ALQ	E(P)	18 10 51.0
JUL 25		
H-18 18 08.9		
17.1S 172.9W		
h ABOUT 033KM		
TUC	EP	18 30 02.0
ALQ	E(P)	18 30 25.0
BOZ	EP	18 30 36.0
COL	IP	18 30 38.2
JUL 25		
COL	E(P)	18 30 09.0
JUL 25		
TUC	EP	18 46 06.7
JUL 25		
GUA	EP	18 50 39.0
JUL 25		
COL	IP	19 16 42.3
JUL 25		
H-19 31 07.0		
27.9S 070.9W		
h ABOUT 026KM		
BHP	IP	19 38 22.0
SJP	EP	19 39 29.2
	E	41 23.0
CSC	EP	19 41 28.0
	ES	49 50.0
PHI	E(P)	19 42 09.0
	E(S)	51 00.0
TUC	EP	19 42 23.8
	ES	51 40.0
	ESS	56 23.0
	EP'P'	20 10 19.2
ALQ	IP	19 42 24.0
	E	42 37.0
	EP'P'	20 10 18.0
GCA	EP	19 42 49.8
BCN	EP	19 42 53.5
SLC	E(P)	19 43 04.6
EUR	IP	19 43 11.4
	ESP	53 30.5
	EPKKP	20 02 03.7
	EP'P'	10 09.5
BOZ	EP	19 43 26.2
	I	43 57.5
	ISP	53 32.0
	EPKKP	20 01 49.8
BUT	EP	19 43 30.0
	IS	53 48.0
HON	EP	19 44 43.0
	EPP	48 48.0
	ISKS	55 20.0
	E	20 01 06.0
	ESS	02 45.0
	ESSS	19 06 34.0
	E	08 34.0
	EL	20 15 40.0
COL	EP	19 45 34.0
JUL 25		
TUC	E(P)	20 24 13.5
JUL 25		
H-21 29 33.2		
02.9N 128.2E		
h ABOUT 022KM		
GUA	E(P)	21 34 02.0
KIP	EP	21 41 10.0
	E	41 25.0
	EL	22 04 06.0
HON	EP	21 41 11.0
	E	41 25.0
	E	50 34.0
	EL	22 04 06.0
COL	EP	21 42 08.0
	I	42 21.2
EUR	EP	21 43 53.0
	EP'	47 42.0
	EPP	48 16.2
	EPKKP	59 16.0
TUC	EP'	21 48 14.5
ALQ	EP'	21 48 18.0
	E	48 25.0
BHP	IP'	21 49 24.0
JUL 25		
EUR	EP	22 41 10.4
	EL	42 13.4
JUL 25		
H-22 47 42.7		
09.7S 159.8E		
h ABOUT 021KM		
COL	IP	23 00 10.9
EUR	IP C	23 00 50.3
BCN	EP	23 00 53.0
BOZ	EP	23 01 09.5
JUL 26		
TUC	EP	03 42 26.6
ALQ	EP	03 42 48.0
BOZ	EP	03 42 53.0
JUL 26		
H-03 58 29.6		
12.7N 089.6W		
h ABOUT 065KM		
ALQ	EP	04 04 04.0
	EPCP	07 27.0
JUL 26		
BOZ	IP	04 06 07.1
	I(S)	06 10.0
JUL 26		
HHM	E(P)	04 44 37.7
JUL 26		
TUC	E(P)	05 48 28.0
JUL 26		
COL	EP	05 56 01.0
	I	56 14.8
JUL 26		
H-06 28 32.7		
23.4S 180.0E		
h ABOUT 555KM		
GUA	IP	06 36 40.0
BCN	E(P)	06 40 13.2
EUR	IP C	06 40 17.4
TUC	IP C	06 40 18.0
GCA	EP	06 40 26.0
SLC	EP	06 40 33.9
ALQ	IP	06 40 37.0
COL	IP	06 40 39.8
BOZ	IP	06 40 46.0
JUL 26		
COL	EP	06 42 38.0
JUL 26		
ALQ	EP	06 46 42.0
JUL 26		
TUC	E(P)	07 03 04.0
JUL 26		
TUC	E(P)	07 19 29.0
JUL 26		
TUC	EP	07 25 06.0
	EL	26 32.0
JUL 26		
TUC	E(P)	08 25 28.8
JUL 26		
ALQ	EP	08 41 12.0
JUL 26		
COL	EP	09 17 52.0

Date and Station	Phase (GCT)
	h m s
JUL 26	
BOZ EP	09 32 35.0
E	32 46.8
EUR EP	09 32 38.7
JUL 26	
H-10 13 07.7	
5.0S 142.1E	
h ABOUT 017KM	
COL IP	10 25 50.2
JUL 26	
HHM EP	11 05 29.0
JUL 26	
GUA IP	11 32 32.5
JUL 26	
H-11 44 45.0	
52.3N 176.2W	
h ABOUT 100KM	
COL IP	11 49 02.8
KIP IP	11 51 19.0
ET	12 26 00.0
HHM EP	11 52 02.0
IPCP	54 04.5
ISCP	57 47.0
BOZ IP	11 52 24.5
IpP	52 47.0
ISCP	57 59.0
EUR IP	11 52 34.5
IpP	52 55.5
ISCP	58 03.5
BCN EP	11 52 57.0
ISCP	58 15.3
TUC EP C	11 53 34.4
EpP	53 57.0
EsP	54 07.3
ALQ IP	11 53 40.5
EpP	54 04.0
JUL 26	
TUC E(P)	11 49 42.2
JUL 26	
COL IP	11 56 45.0
JUL 26	
H-13 53 25.1	
11.8N 088.2W	
h ABOUT 009KM	
ALQ EP	13 59 23.0
E	59 29.0
BOZ IP	14 00 55.5
HHM EP	14 01 21.8
JUL 26	
COL IP	13 55 33.7
HHM EP	13 58 55.4

Date and Station	Phase (GCT)
	h m s
BOZ EP	13 59 24.0
EUR EP	13 59 51.2
TUC E(P)	14 01 04.0
JUL 26	
H-13 55 37.4	
02.6N 078.5W	
h ABOUT 038KM	
BHP IP	13 57 13.0
SJP EP	14 00 07.7
I	00 12.4
ALQ IP	14 03 22.0
EpP	03 32.0
TUC EP C	14 03 30.8
EPCP	05 22.3
RCD E(P)	14 04 04.0
BCN EP	14 04 10.2
SLC EP	14 04 18.0
EUR IP C	14 04 31.0
I	04 45.5
BOZ IP	14 04 43.2
BUT IP C	14 04 48.6
HHM EP	14 05 06.2
COL IP	14 07 37.8
JUL 26	
ALQ EP	15 02 48.0
JUL 26	
ALQ EP	16 34 00.0
E	34 12.0
JUL 26	
TUC IP	17 09 30.6
IL	09 50.2
JUL 26	
GCA EP	17 11 19.8
JUL 26	
EUR EP	17 17 02.5
EL	17 49.0
JUL 26	
H-18 34 34.6	
46.8N 153.8E	
h ABOUT 033KM	
HHM EP	18 44 29.0
BOZ IP	18 44 49.3
I	44 55.0
I	45 15.0
EUR IP	18 44 58.9
BCN EP	18 45 18.5
RCD EP	18 45 25.0

Date and Station	Phase (GCT)
	h m s
TUC EP	18 45 48.2
ALQ IP	18 45 54.5
E	46 04.0
E	46 09.5
JUL 26	
H-18 36 02.5	
60.2N 147.0W	
h ABOUT 052KM	
COL IP	18 37 13.3
HHM EP	18 40 57.0
I	41 03.3
BOZ EP	18 41 26.0
JUL 26	
COL EP	19 34 22.0
JUL 26	
H-19 43 40.9	
2.5N 078.4W	
h ABOUT 107KM	
SJP EP	19 48 05.0
E	48 19.5
ALQ IP	19 51 20.0
E	51 23.0
E	51 30.0
TUC EP	19 51 27.8
EPCP	53 19.0
EUR EP	19 52 28.2
BOZ IP	19 52 40.0
IPP	54 33.0
COL EP	19 55 34.0
JUL 26	
H-19 44 12.8	
47.0N 153.7E	
h ABOUT 033KM	
EUR EP	19 54 35.5
JUL 26	
H-20 24 13.9	
04.1N 126.4E	
h ABOUT 033KM	
GUA E(P)	20 28 50.0
COL EP	20 36 44.0
BOZ EP'	20 42 43.0
ALQ EP'	20 42 59.5
JUL 26	
TUC E(P)	21 54 18.6
JUL 26	
TUC EP	21 55 40.5
E(L)	55 28.5
JUL 27	
COL EP	00 01 43.0

Date and Station	Phase (GCT)
	h m s
JUL 27	
EUR IP	00 14 30.6
IS	14 54.5
BCN E(P)	00 15 21.4
EL	16 21.0
JUL 27	
H-00 15 44.7	
61.5N 163.9E	
h ABOUT 008KM	
COL EP	00 20 36.0
SIT EP	00 22 00.3
HHM EP	00 24 11.9
BOZ EP	00 24 33.2
EUR IP	00 24 55.1
IPCP	26 11.0
BCN EP	00 25 20.7
ALQ IP	00 25 53.0
E	26 10.0
E	26 19.0
TUC EP	00 25 54.4
JUL 27	
H-00 40 26.2	
17.0S 172.7W	
h ABOUT 033KM	
TUC EP	00 52 17.6
E	52 28.2
ALQ E(P)	00 52 42.0
COL IP	00 52 54.3
JUL 27	
H-01 50 49.6	
75.6N 113.9E	
h ABOUT 030KM	
BOZ EP	02 00 23.0
EUR EP	02 01 00.9
ALQ EP	02 01 39.0
E	01 43.0
JUL 27	
H-02 27 59.7	
16.4S 173.8W	
h ABOUT 033KM	
TUC EP	02 39 53.0
EUR EP	02 39 55.2
ALQ EP	02 40 17.0
BOZ EP	02 40 27.0
COL EP	02 40 29.0
JUL 27	
RCD E(P)	02 48 57.0

Date and Station	Phase (GCT)
	h m s
JUL 27	
H-04 03 33.2	
1.7S 077.9W	
h ABOUT 164KM	
SJP EP	04 08 25.2
E	09 03.0
ALQ IP	04 11 36.5
TUC IP D	04 11 42.3
E	12 18.0
EUR EP	04 12 41.0
E	13 18.2
BOZ EP	04 12 54.6
I	13 32.0
I	13 47.0
HHM EP	04 13 17.9
JUL 27	
HHM E(P)	04 33 58.0
JUL 27	
COL EP	05 32 41.0
JUL 27	
H-06 27 52.8	
16.8N 104.9W	
h ABOUT 100KM	
TUC EP	06 31 37.2
JUL 27	
ALQ EP	06 37 01.0
JUL 27	
TUC E(P)	06 53 21.5
JUL 27	
TUC E(P)	07 25 29.2
JUL 27	
HHM EP	08 28 23.8
JUL 27	
ALQ E(P)	09 06 05.0
JUL 27	
TUC E(P)	09 34 34.8
JUL 27	
TUC E(P)	11 10 48.0
E	11 31.5
JUL 27	
TUC E(P)	11 16 23.4
JUL 27	
TUC E(P)	11 23 12.8
JUL 27	
COL IP	11 41 00.3
JUL 27	
BOZ EP	13 57 11.5
EL	57 30.0
BUT EP	13 57 26.6
HHM E(P)	13 57 59.1

Date and Station	Phase (GCT)
	h m s
JUL 27	
ALQ E(P)	15 04 30.0
JUL 27	
H-15 34 05.2	
47.5N 152.5E	
h ABOUT 033KM	
BOZ EP	15 44 23.0
ALQ E(P)	15 45 29.0
E(S)	46 07.0
JUL 27	
TUC EP	15 44 57.0
IL	45 17.0
JUL 27	
H-15 53 23.6	
63.4N 148.5W	
h ABOUT 115KM	
COL IP	15 53 52.2
HHM EP	15 58 30.0
BOZ EP	15 58 59.0
EUR IP	15 59 29.6
JUL 27	
ALQ E(P)	16 04 12.0
JUL 27	
COL EP	16 10 27.0
JUL 27	
COL EP	17 58 15.0
JUL 27	
H-18 23 51.0	
47.1N 153.7E	
h ABOUT 033KM	
COL IP	18 30 45.5
BOZ EP	18 34 10.0
JUL 27	
H-18 40 53.4	
42.4N 125.3W	
h ABOUT 033KM	
EUR EP	18 42 45.1
BOZ EP	18 43 22.3
TUC E(P)	18 44 28.0
JUL 27	
RCD E(P)	19 04 45.0
JUL 27	
H-19 31 15.0	
46.5N 153.9E	
h ABOUT 033KM	
BOZ EP	19 41 32.0
JUL 27	
TUC E(P)	19 32 03.3
JUL 27	
ALQ E(P)	20 17 15.5

Date and Station	Phase (GCT)
	h m s
JUL 27	
ALQ EP	21 06 57.0
E	07 54.0
JUL 27	
ALQ EP	21 13 58.0
E	14 06.0
JUL 27	
H-21 44 38.5	
07.7N 082.3W	
h ABOUT 033KM	
BHP IP	21 45 24.5
IL	46 15.0
ALQ IP	21 51 31.0
E	51 39.0
TUC EP	21 51 39.7
BCN EP	21 52 22.0
EUR IP	21 52 43.7
JUL 27	
TUC EP	22 13 09.5
JUL 27	
TUC EP	22 14 22.3
EL	14 38.0
JUL 27	
SJP EP	22 40 37.4
EL	41 12.5
JUL 27	
H-23 00 36.3	
46.8N 153.8E	
h ABOUT 033KM	
COL IP	23 07 34.8
HON E(P)	23 09 07.0
ES	15 53.0
E	19 42.0
EL	21 34.0
HHM EP	23 10 31.0
BUT E(P)	23 10 38.0
BOZ IP	23 10 51.2
I	10 56.0
I	11 04.5
IS	19 08.0
EUR IP	23 11 00.5
I	11 12.4
SLC E(P)	23 11 10.0
BCN EP	23 11 20.8
TUC EP	23 11 50.5
ALQ IP	23 11 56.0
E	12 08.5
E	12 14.0
JUL 27	
H-23 20 56.2	
60.9N 148.0W	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL IP	23 21 57.2
TUC EP	23 28 08.0
JUL 28	
H-00 25 21.9	
46.7N 153.7E	
h ABOUT 033KM	
COL EP	00 32 23.8
E	32 30.0
JUL 28	
TUC E(P)	01 00 05.0
JUL 28	
BCN IP	01 02 09.5
IS	02 22.0
JUL 28	
TUC E(P)	01 21 35.1
JUL 28	
TUC E(P)	02 51 17.0
JUL 28	
H-02 53 26.6	
11.5N 086.4W	
h ABOUT 111KM	
ALQ IP	02 59 24.0
E	59 30.0
JUL 28	
BHP IS	04 05 28.0
JUL 28	
COL EP	04 14 59.0
JUL 28	
TUC EP	04 25 00.5
JUL 28	
H-04 40 59.1	
07.6N 082.3W	
h ABOUT 026KM	
BHP IP	04 41 47.0
ALQ EP	04 47 53.0
TUC EP	04 48 01.0
BCN EP	04 48 44.0
E	48 50.0
EUR IP	04 49 05.8
BOZ EP	04 49 18.0
JUL 28	
BHP IP	04 57 54.0
JUL 28	
EUR EP	05 24 51.9
JUL 28	
ALQ E(P)	05 29 23.0
JUL 28	
TUC E(P)	05 58 56.5
BCN E(P)	05 59 16.8
EL	06 00 42.5

Date and Station	Phase (GCT)
	h m s
ALQ E(P)	05 59 38.0
JUL 28	
H-06 19 29.8	
45.4N 151.3E	
h ABOUT 033KM	
COL IP	06 26 47.5
HHM EP	06 29 40.8
BOZ EP	06 29 59.0
EUR IP	06 30 08.7
BCN EP	06 30 28.0
E	30 47.5
JUL 28	
HHM IP	06 26 02.3
IS	26 07.2
JUL 28	
H-06 45 46.0	
7.6S 127.3E	
h ABOUT 257KM	
EUR IP'	07 04 00.6
BOZ EP'	07 04 03.5
BCN EP'	07 04 04.5
TUC EP'	07 04 11.2
ALQ IP'	07 04 17.0
E	04 26.0
E	04 31.0
JUL 28	
BCN EP	07 57 34.9
JUL 28	
H-08 00 00.3	
18.9S 169.4E	
h ABOUT 237KM	
COL IP	08 12 30.3
EUR IP C	08 12 37.0
TUC EP	08 12 42.7
ALQ EP	08 13 01.0
JUL 28	
BCN E(P)	08 13 42.0
JUL 28	
H-08 17 31.5	
21.5S 067.9W	
h ABOUT 164KM	
ALQ IP	08 28 09.0
TUC EP	08 28 11.6
EUR EP	08 29 00.0
E	29 11.8
BOZ E(P)	08 29 11.0
JUL 28	
COL EP	09 48 14.0

Date and Station	Phase (GCT)
	h m s
JUL 28	
COL IP	10 01 50.3
JUL 28	
BOZ E(P)	10 21 05.0
JUL 28	
ALQ E(P)	10 36 27.0
JUL 28	
H-10 46 00.6	
16.0S 172.9W	
h ABOUT 033KM	
BCN EP	10 57 43.3
TUC EP	10 57 48.3
EUR EP	10 57 49.1
ALQ IP	10 58 13.0
BOZ EP	10 58 22.0
COL EP	10 58 23.0
JUL 28	
H-12 22 43.0	
51.3S 139.3E	
h ABOUT 034KM	
BCN EP'	12 41 45.0
E	41 49.5
EUR EP'	12 41 47.6
ALQ EP'	12 41 53.0
ESKP	45 18.0
JUL 28	
GUA EP	12 31 49.7
E(S)	32 04.0
JUL 28	
BOZ E(P)	12 41 35.0
JUL 28	
COL IP	13 31 58.0
JUL 28	
BHP P	13 57 13.0
JUL 28	
ALQ E(P)	15 08 57.0
JUL 28	
TUC EP	15 57 23.7
EL	57 43.5
JUL 28	
EUR EP	15 59 57.7
JUL 28	
GCA IP	16 43 46.7
ES	43 58.0
JUL 28	
ALQ E(P)	17 04 14.0
JUL 28	
H-18 08 17.0	
44.3N 148.8E	
h ABOUT 033KM	

Date and Station	Phase (GCT)
	h m s
COL EP	18 15 50.0
BOZ EP	18 18 59.0
EUR EP	18 19 08.9
BCN E(P)	18 19 27.4
E	19 34.4
JUL 28	
EUR EP	18 15 23.6
JUL 28	
H-18 24 03.0	
46.5N 153.7E	
h ABOUT 033KM	
BOZ EP	18 34 20.0
JUL 28	
ALQ EP	18 34 33.0
JUL 28	
H-18 40 04.3	
51.2S 139.0E	
h ABOUT 033KM	
GUA IP	18 50 42.0
I(S)	59 17.0
HON E(P)	18 53 12.0
ES	19 03 42.0
I	18 05 20.0
E	09 24.0
EL	16 56.0
TUC EP'	18 59 01.7
BCN EP'	18 59 06.2
COL EP'	18 59 09.0
EUR IP'	18 59 10.5
ALQ EP'	18 59 11.0
E	59 22.0
GCA EP'	18 59 11.9
BOZ EP'	18 59 14.0
BUT EP'	18 59 17.0
HHM EP'	18 59 20.0
RCD EP'	18 59 24.0
CSC EP'	18 59 44.0
JUL 28	
ALQ E(P)	18 41 28.0
JUL 28	
BHP EP	19 01 09.0
JUL 28	
EUR EP	19 50 50.0
JUL 28	
RCD E(P)	20 09 40.0
JUL 28	
HHM EP	21 01 21.1

Date and Station	Phase (GCT)
	h m s
JUL 28	
H-21 37 10.9	
06.7N 073.1W	
h ABOUT 138KM	
BHP IP	21 38 48.5
SJP E(P)	21 40 17.0
I	40 21.5
ALQ EP	21 44 47.0
EPCP	46 41.0
TUC EP	21 45 01.0
GCA EP	21 45 25.4
BCN EP	21 45 38.9
EUR IP	21 45 56.4
EPP	46 31.9
BOZ IP	21 46 01.0
JUL 28	
H-21 38 43.5	
14.3N 096.2E	
h ABOUT 033KM	
GUA IP	21 47 15.0
COL EP	21 51 30.0
HON EP	21 52 26.0
E	57 40.0
ES	22 04 02.0
EPS	05 27.0
E	06 16.0
EL	20 16.0
BOZ EP'	21 57 23.6
EUR IP'	21 57 30.2
BCN EP'	21 57 38.5
ALQ IP'	21 57 46.0
E	57 50.0
TUC EP'	21 57 47.3
KIP ES	22 04 20.0
EPS	05 28.0
E	06 17.0
EL	20 18.0
JUL 28	
EUR IP	22 03 06.1
JUL 28	
H-22 46 34.0	
14.1N 096.1E	
h ABOUT 014KM	
COL EP	22 59 24.0
ALQ IP'	23 05 40.0
E	05 45.0
TUC EP'	23 05 41.0
E	05 45.2

Date and Station	Phase	(GCT) h m s
JUL 28		
HHM	EP	23 01 24.2
	I	01 26.0
JUL 28		
ALQ	IP	23 34 52.0
	E(S)	35 02.0
JUL 29		
COL	EP	02 29 57.0
JUL 29		
TUC	E(P)	02 51 06.4
JUL 29		
H-04 38 59.2		
4.0S 128.9E		
h ABOUT 159KM		
ALQ	IP'	04 57 33.0
	E	57 39.0
JUL 29		
BOZ	EP	04 59 46.0
JUL 29		
COL	EP	05 40 19.0
JUL 29		
ALQ	E(P)	05 44 14.0
JUL 29		
TUC	E(P)	06 14 33.7
ALQ	EP	06 14 38.0
	E	14 42.0
JUL 29		
ALQ	EP	07 31 13.0
JUL 29		
EUR	EP	08 57 35.2
JUL 29		
SJP	IP	09 38 18.5
	IS	38 30.3
JUL 29		
H-09 46 42.2		
14.9N 093.4W		
h ABOUT 056KM		
TUC	EP	09 51 48.2
	E	51 56.7
BCN	EP	09 52 33.0
	E	52 41.5
EUR	EP	09 53 00.4
BOZ	EP	09 53 25.0
COL	EP	09 56 56.0
JUL 29		
BOZ	EP	12 56 50.0
JUL 29		
ALQ	E(P)	14 03 55.0
JUL 29		
ALQ	E(P)	15 46 53.0

Date and Station	Phase	(GCT) h m s
JUL 29		
HHM	EP	16 30 16.0
	I	30 29.3
JUL 29		
H-16 36 56.8		
07.3N 077.3W		
h ABOUT 033KM		
BHP	IP	16 37 40.0
	IS	39 12.0
ALQ	EP	16 44 17.0
BOZ	E(P)	16 45 38.0
HHM	EP	16 45 59.2
JUL 29		
GUA	EP	17 52 26.5
JUL 29		
BOZ	IP	18 30 22.2
	IL	30 33.0
JUL 29		
HHM	EP	18 31 20.0
	EL	32 09.6
JUL 29		
TUC	E(P)	19 48 28.0
JUL 29		
ALQ	EP	19 55 36.0
JUL 29		
EUR	EP	20 01 17.3
JUL 29		
TUC	EP	20 13 18.0
	EL	13 38.0
ALQ	EP	20 13 49.0
	E(S)	14 29.0
JUL 29		
EUR	EP	20 18 31.8
	EL	19 07.8
GCA	EP	20 18 41.9
JUL 29		
TUC	EP	21 23 07.0
JUL 29		
BOZ	E(P)	22 10 13.5
JUL 29		
ALQ	E(P)	22 16 34.0
JUL 29		
EUR	EP	23 02 24.6
JUL 29		
BOZ	E(P)	23 46 32.0
	I	48 48.0
JUL 29		
GCA	E(P)	23 49 39.3
JUL 30		
ALQ	EP	00 36 16.0

Date and Station	Phase	(GCT) h m s
JUL 30		
COL	IP	01 06 43.2
JUL 30		
H-01 22 10.1		
17.7S 178.2W		
h ABOUT 643KM		
EUR	IP D	01 33 22.1
TUC	EP	01 33 24.0
GCA	EP	01 33 32.8
COL	IP	01 33 41.5
ALQ	IP	01 33 45.5
JUL 30		
ALQ	E(P)	01 49 12.0
JUL 30		
GUA	EP	02 07 00.0
	ES	07 21.0
JUL 30		
COL	EP	02 39 46.0
JUL 30		
EUR	EP	02 54 04.2
JUL 30		
ALQ	EP	03 34 44.0
JUL 30		
TUC	EP	04 14 22.0
	E	14 32.0
ALQ	EP	04 14 47.0
COL	EP	04 14 57.0
JUL 30		
JUL 30		
H-05 16 03.3		
11.1N 086.2W		
h ABOUT 042KM		
BHP	IP	05 17 46.0
SJP	EP	05 20 43.5
	I	20 53.5
CSC	EP	05 21 11.0
WAS	EP	05 22 02.0
	ES	26 58.0
ALQ	EP	05 22 10.0
TUC	EP	05 22 18.3
	EPCP	25 16.4
	ES	27 16.0
	EL	30 00.0
GCA	EP	05 22 49.7
	I	22 51.2
BCN	EP	05 23 02.0
	I▸P	23 13.5
	EPP	24 23.8
	EPCP	25 30.0
	E▸PCP	25 40.0
	ESCP	29 17.0

Date and Station	Phase	(GCT) h m s
RCD	EP	05 23 02.0
SLC	EP	05 23 12.3
	I	23 24.2
EUR	IP C	05 23 25.4
BUT	EP	05 23 45.7
UKI	EP	05 24 02.2
HHM	IP D	05 24 06.4
	IPCP	25 53.6
SIT	E(P)	05 26 02.4
COL	IP	05 26 59.5
HON	EP	05 27 08.0
	I	36 19.0
	E	41 05.0
	EL	44 31.0
JUL 30		
GUA	EP	06 37 00.0
JUL 30		
ALQ	EP	06 58 45.0
	E	59 03.0
JUL 30		
EUR	EP	07 12 24.6
JUL 30		
H-07 41 25.0		
35.9N 139.6E		
h ABOUT 101KM		
EUR	EP	07 53 12.9
JUL 30		
TUC	E(P)	08 03 48.3
JUL 30		
TUC	E(P)	08 36 34.5
JUL 30		
GUA	IP	09 14 20.0
	E	14 36.5
JUL 30		
TUC	EP	10 16 42.7
JUL 30		
TUC	E(P)	10 20 28.5
JUL 30		
ALQ	EP	10 38 10.0
JUL 30		
BUT	E(P)	12 33 19.6
JUL 30		
HHM	E(P)	12 46 42.0
	IL	48 12.2
EUR	EP	12 47 56.7
JUL 30		
H-13 12 54.3		
06.0S 154.4E		
h ABOUT 079KM		
COL	IP	13 25 09.0

Date and Station	Phase (GCT)
	h m s
EUR EP	13 26 03.3
JUL 30	
ALQ E(P)	14 28 10.0
JUL 30	
HHM E(P)	15 34 39.2
E(L)	36 04.0
JUL 30	
TUC EP	15 48 20.0
JUL 30	
HHM EP	16 31 11.1
I	31 13.8
I	31 15.6
JUL 30	
H-16 53 18.2	
61.4N 145.5W	
h ABOUT 025KM	
COL IP	16 54 15.1
SIT E(P)	16 54 56.0
HHM EP	16 58 14.6
E	58 21.1
ALQ E(P)	17 00 20.0
E	00 28.0
JUL 30	
COL IP	18 15 06.5
JUL 30	
UKI E(P)	18 52 24.1
JUL 30	
HHM IP	19 33 11.5
JUL 30	
ALQ E(P)	20 18 30.0
JUL 30	
ALQ EP	20 37 53.0
JUL 30	
ALQ E(P)	23 20 36.0
JUL 31	
ALQ E(P)	00 02 11.0
E	02 20.0
E	02 27.0
JUL 31	
ALQ EP	01 08 21.0
JUL 31	
UKI E(P)	01 13 50.0
JUL 31	
ALQ E(P)	01 31 04.0
JUL 31	
H-02 24 06.7	
65.3N 152.9W	
h ABOUT 033KM	
COL IP	02 24 41.5
EUR IP	02 30 44.3

Date and Station	Phase (GCT)
	h m s
ALQ IP	02 31 48.0
E	31 55.0
JUL 31	
GUA EP	02 48 31.5
ES	48 56.8
ALQ EP	02 55 32.0
JUL 31	
BHP IP	03 06 52.0
SJP IP	03 10 18.0
ALQ IP	03 12 46.0
E	12 52.0
TUC EP	03 12 51.3
JUL 31	
HHM IP	03 29 54.3
JUL 31	
BCN EP	04 01 03.5
E	01 18.0
JUL 31	
H-04 01 11.1	
32.5N 138.7E	
h ABOUT 200KM	
GUA E(P)	04 05 27.0
COL EP	04 10 17.0
JUL 31	
H-04 05 06.2	
44.6N 151.6E	
h ABOUT 053KM	
COL IP	04 12 24.7
HHM IP	04 15 16.3
IpP	15 31.3
BUT EP	04 15 27.2
E	15 45.4
EUR IP D	04 15 43.9
EpP	15 58.7
RCD EP	04 16 10.0
EpP	16 24.0
GCA IP	04 16 11.2
TUC EP	04 16 32.4
EpP	16 47.4
ALQ IP	04 16 38.0
EpP	16 53.0
HON E	04 20 52.0
EL	24 44.0
JUL 31	
H-05 52 18.8	
06.1S 149.4E	
h ABOUT 063KM	
GUA IP	05 56 49.5
IS	06 00 25.0

Date and Station	Phase (GCT)
	h m s
HON EP	06 02 08.0
ES	10 11.0
KIP EP	06 02 10.0
ES	10 12.0
COL IP	06 04 42.3
SIT E(P)	06 04 57.9
EUR IP	06 05 46.1
IPKKP	22 25.3
HHM EP	06 05 53.2
I	05 59.4
EPKKP	22 22.4
BCN E(P)	06 05 57.0
E	06 33.0
EL	37 53.0
TUC E(P)	06 06 06.0
EPP	10 08.0
ESKS	16 38.0
EPKKP	22 09.0
ALQ E(P)	06 06 26.0
EPKKP	22 08.0
WAS EP'	06 11 14.0
CSC EP'	06 11 17.0
BHP IP'	06 11 26.0
SJP EP'	06 11 44.5
I	11 56.0
ISKP	15 28.1
JUL 31	
BUT E(P)	06 07 04.0
H-06 26 36.7	
25.7S 179.6W	
h ABOUT 429KM	
BCN EP	06 38 35.0
TUC EP C	06 38 38.5
EUR EP	06 38 39.5
ALQ EP	06 38 58.0
COL IP	06 39 03.7
JUL 31	
BUT EP	06 36 27.4
IL	36 45.4
EUR E(P)	06 37 50.2
HHM I(P)	06 37 14.8
IL	38 04.7
JUL 31	
HHM EP	08 27 53.5
JUL 31	
ALQ EP	08 54 34.0

Date and Station	Phase (GCT)
	h m s
JUL 31	
H-09 25 51.6	
59.7N 145.0W	
h ABOUT 033KM	
COL IP	09 27 11.8
HHM EP	09 30 37.6
EUR EP	09 31 34.8
JUL 31	
EUR IP	09 43 16.0
IL	43 51.0
JUL 31	
COL EP	11 05 54.0
JUL 31	
KIP E(P)	11 14 28.0
JUL 31	
RCD IP	11 29 30.0
E	29 38.0
E(S)	29 54.0
ALQ EP	11 31 28.0
JUL 31	
H-14 51 22.0	
2.4N 128.2E	
h ABOUT 023KM	
GUA EP	14 55 54.5
JUL 31	
ALQ E(P)	14 55 16.0
JUL 31	
COL EP	15 01 38.0
JUL 31	
SIT E(P)	15 47 21.0
JUL 31	
HHM EP	17 40 01.7
IL	41 03.9
JUL 31	
EUR EP	18 34 32.8
IL	35 09.3
JUL 31	
HHM IP	20 01 05.6
JUL 31	
H-20 43 19.2	
47.8N 147.4E	
h ABOUT 378KM	
COL IP	20 50 02.5
HHM EP	20 52 56.9
I	53 36.0
EUR IP C	20 53 28.0
ALQ IP	20 54 19.0
E	54 26.0
E	56 07.0

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
JUL 31							
H-21 22 24.3							
86.4N 038.5E							
h ABOUT 033KM							
COL EP	21 28 22.0						
HHM EP	21 30 39.1						
EUR IP	21 31 47.4						
IpP	33 16.0						
ALQ IP	21 32 17.0						
E	32 24.0						
JUL 31							
GCA EP	21 30 21.4						
IS	30 53.4						
TUC E(P)	21 31 03.0						
JUL 31							
BCN EP	21 52 12.5						
JUL 31							
TUC E(P)	22 18 49.5						
JUL 31							
GUA IP	23 09 42.0						
IS	09 51.5						
JUL 31							
EUR IP	23 22 16.7						
JUL 31							
H-23 45 55.2							
83.3N 040.5E							
h ABOUT 010KM							
COL IP	23 51 56.6						
HHM EP	23 54 14.4						
BUT E(P)	23 54 30.3						
SLC EP	23 55 11.3						
EUR IP	23 55 22.0						
GCA EP	23 55 38.8						
BCN EP	23 55 47.5						
ALQ IP	23 55 51.5						
E	56 01.0						
TUC E(P)	23 56 12.2						