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July, 1965

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COAST & GEODETIC SURVEY

MAY 17 1966

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COAST AND GEODETIC SURVEY—WASHINGTON

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1965

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

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

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

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

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

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

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

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

STATION AND INSTRUMENTAL CONSTANTS (JULY 1965)

Station	Position	Instrument	Foundation and Elevation		To	Tg	Ts	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
Capt. P. A. Weber	Lat. 34°56.5' N		1,853 m.	N	1.0	0.75		400,000				N
In Charge	Long. 106°27.5' W			E	1.0	0.75		400,000				E
		Std-LP		Z	15	100		3,000	Critical	15mm/min	Beginning	Up
				N	15	100		3,000				N
				E	15	100		3,000				E
Balboa Heights, C. Z.	Log 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
				Z	30	100		750	Critical	15mm/min	Beginning	Up
				N	30	100		750				N
				E	30	100		750				E
Barrow, Alaska	Log cos 9.50605	W-L, Z	Silt 25'	Z	1.1	0.5		75,000	Near crit.	60mm/min	Beginning	Up
J. B. Townshend	Lat. 71°18'12"N		over sand									
In Charge	Long. 156°44'54"W											
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.	Los cos 9.84437	Spg, N&E	Alluvium	N	11.1	8.3		8,000	3:1	30mm/min	Beginning	N
A.J.M. Johnson	Lat. 45°40'01"N		glacial	E	10.9	7.6		8,000	11:1			E
In Charge	Long. 111°02'43"W	W-L, Z	drift and	Z	1.1	1.7		24,000	Under	60mm/min		Up
			lake deposit						damped			
			500' thick									
			over gneiss									
			and schist.									
			1,490 m.									
Bozeman, Mont.	Log cos 9.84489	Std-SP	Granite	Z	1.0	0.75		400,000	17:1	60mm/min	Beginning	Up
A.J.M. Johnson	Lat. 45°36'00"N		gneiss	N	1.0	0.75		400,000				N
In Charge	Long. 111°38'00"W		1,575 m.	E	1.0	0.75		400,000				E
		Std-LP		Z	15	100		3,000	Critical	15mm/min	Beginning	Up
				N	15	100		3,000				N
				E	15	100		3,000				E
Butte, Mont.	Log cos 9.84167	W-A, N	Rhyolite 30	N	8.02			316	50:1	15mm/min	Beginning	S
S. W. Nile	Lat. 46°00.8' N	Mass 2g	m. thick									
In Charge	Long. 112°33.8' W	W-L, N&E	resting on	N	8.0	3.8		12,000	Near crit.	30mm/min		N
			granite	E	8.0	3.9		12,000	Near crit.			W
		B, Paper, Z	1,758 m.	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		To	Tg	Ts	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
*College, Alaska	Log cos 9.62825	W-L, Film, Z	Granite	Z	1.19	0.45		40,000**	Near crit.	15mm/min	Beginning	Up
J. B. Townshend	Lat. 64°51.6' N	B, Film, N&E	schist	N	1.36	0.45		50,000**	Near crit.			N
In Charge	Long. 147°50.1' W		180 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 9.62757	Std-SP	Weathered	Z	1.0	0.75		100,000	17:1	60mm/min	Beginning	Up
J. B. Townshend	Lat. 64°54'00" N		schist	N	1.0	0.75		100,000				N
In Charge	Long. 147°47'30" W		320 m.	E	1.0	0.75		100,000				E
		Std-LP		Z	15	100		1,500	Critical	15mm/min	Beginning	Up
				N	15	100		1,500				N
				E	15	100		1,500				E
		B, paper, Z		Z	1.5	0.53		223,000	Near crit.	60mm/min	Beginning	Up
Columbia, S. C.	Log cos 9.91857	W-L, Z, N&E	Consolidated	Z	1.1	1.6		24,000	Under	60mm/min	Beginning	Up
L. G. Barre	Lat. 34°00' N		sand 150'	N	8.0	4.1		13,000	damped	30mm/min		N
In Charge	Long. 81°02' W		thick over	E	8.0	4.1		13,000				E
			granite.94 m.									
Eureka, Nevada	Log cos 9.87826	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"		2,178 m.									
Flaming Gorge, Utah	Log cos 9.87826	B-VR, Film, Z,	Quartzite	Z	1.0	0.2	0.3	56,000**	10:1	15mm/min	Beginning	Up
F. D. Lorde	Lat. 40°55'36" N	N&E	1,982 m.	N	1.0	0.2	0.3	59,000**				N
In Charge	Long. 109°23'10" W			E	1.0	0.2	0.3	58,000**				E
				Z	1.0	0.2	0.3	2,500	9:1			Up
Glen Canyon, Ariz.	Log cos 9.90250	B-VR, Film, Z,	Navajo	Z	1.0	0.2	0.3	29,000**	11 1	15mm/min	Beginning	Up
V. E. Larson	Lat. 36°58'25" N	N&E	sandstone	N	1.0	0.2	0.3	27,000**	10:1			N
In Charge	Long. 111°35'35" W		1,339	E	1.0	0.2	0.3	29,000**	11:1			E
				Z	1.0	0.2	0.3	2,400	9:1			Up
Guam, Mariana Islands	Log Cos 9.98776	Std-SP	Fractured	Z	1.0	0.75		6,250	17:1	60mm/min	Beginning	Up
W. S. Jacobs	Lat. 13°32'18" N		volcanic	N	1.0	0.75		6,250				N
In Charge	Long. 144°54'42" E		tuff	E	1.0	0.75		6,250				E
		Std-LP	230 m.	Z	15	100		750	Critical	30mm/min	Beginning	Up
				N	15	100		750				N
				E	15	100		750				E
	Log cos 9.98768	W-L, Z	Volcanics	Z	1.01	1.6		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
F. J. Tucker	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		To	Tg	Ts	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
F. J. Tucker	Lat. 21°25'24" N		70 m.	N	1.0	0.75		12,500				N
In Charge	Long. 158°00'54" W			E	1.0	0.75		12,500				E
		Std-LP		Z	15	100		750	Critical	15mm/min	Beginning	Up
				N	15	100		750				N
				E	15	100		750				E
		B-VR, Z		Z	1.09	0.2		30,000	Near crit.	60mm/min	Beginning	Up
*Philadelphia, Pa.	Log cos 9.88452	W, N&E	Cape May	N	9.0	5.4		1,400	15:1	20mm/min	End	S
J. H. Sharp	Lat. 39°57'32" N	Mass 500 g.	sand and	E	9.2	4.1		1,400	15:1			E
In Charge	Long. 103°12'30" W		gravel. 5 m.									
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				
In Charge	Long. 103°13'30" W			E	1.0	0.75		12,500				
		Std-LP		Z	15	100		750	Critical	15mm/min	Beginning	Up
				N	15	100		750				N
				E	15	100		750				E
Salt Lake City, Utah	Log cos 9.98732	McC-R, N&E	Bonneville	N	4.5	1.56	0.99	12,300	17:1	15mm/min	Beginning	N
A. M Anderson	Lat. 40°45'55" N	Mass 2.5 kg.	Lake Beds	E	4.9	1.37	0.99	12,700	17:1			W
In Charge	Long. 111°50'54" W	W-L, Z	1,425 m	Z	1.2	1.72	0.96	23,000	17:1	60mm/min		Up
San Juan, P. R.	Log cos 9.97794	Std-SP	Volcanic	Z	1.0	0.75		50,000	17:1	60mm/min	Beginning	Up
M. Vazquez	Lat. 18°06'42" N		breccia	N	1.0	0.75		50,000				N
In Charge	Long. 66°09'00" W		457 m.	E	1.0	0.75		50,000				E
		Std-LP		Z	30	100		750	Over	15mm/min	Beginning	Up
				N	30	100		750	damped			N
				E	30	100		750				E
*Sitka, Alas.	Log cos 9.73544	W, N&E	Graywacke.	N	7.5	16.5	8.2	1,000	20:1	15mm/min	Beginning	S
K. Cravens	Lat. 57°03'25" N	Mass 500 g.	19 m	E	7.5	13.2	8.2	1,000	5.5:1			E
In Charge	Long. 135°19'28" W	W-L, Z		Z	1.12	1.5		10,000				Up
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	15	100		1,500	Critical	30mm/min	Beginning	Up
				N	15	100		1,500				N
				E	15	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	Grount 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 allu-	Z	1.5	4.0		10,000		30mm/min		Up
	Lat. 38°53'33"N	Visible	vium on			Pen						
	Long. 77°01'59"W	Recorder	schistose			0.5						
			granite. 0 m.									
Washington Science	Log cos 9.89020	W-L, Z	Pelitic	Z	1.9	1.0			15:1	60mm/min	Beginning	Up
Center, Maryland	Lat. 39°03'01.8"N	Visible	Schist.									
	Long. 77°07'25.2'W	Recorder	120 m.									

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

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

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

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

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
1	01 23 51.4	34.4 N	139.1 E	39	4.5	NEAR S. COAST OF HONSHU, JAPAN.
1	02 43 01*	30.9 N	113.7 W	33	4.4	GULF OF CALIFORNIA.
1	04 47 03*	17.8 S	168.5 E	99		NEW HEBRIDES ISLANDS.
1	04 54 51.4	23.3 S	67.7 W	85	5.1	CHILE-ARGENTINA BORDER REGION. MAG. 4.5 (BRK).
1	05 36 42*	19.1 S	170.0 E	268		NEW HEBRIDES ISLANDS.
1	07 16 49.0	18.2 N	146.4 E	80	5.1	MARIANA ISLANDS.
1	09 35 21.4	18.3 N	147.0 E	40	4.2	MARIANA ISLANDS REGION.
1	14 38 54*	50.9 N	173.8 E	45	4.8	ALEUTIAN ISLANDS REGION.
1	16 57 30*	12.1 N	87.5 W	176	4.3	NEAR COAST OF NICARAGUA.
1	17 41 33.2	50.1 N	158.9 E	50	5.1	KURILE ISLANDS REGION.
1	19 49 05.0	53.4 N	163.7 W	58	4.5	UNIMAK ISLAND REGION.
1	19 54 47*	56.5 N	152.5 W	33	4.1	KODIAK ISLAND REGION.
1	23 12 45.4	63.0 S	163.6 W	33		SOUTH PACIFIC CORDILLERA. MAG. 6 (PAS), 6.7 (BRK).
1	23 41 33.1	7.3 N	126.7 E	93	4.7	MINDANAO, PHILIPPINE ISLANDS.
2	01 09 47.6	7.7 S	76.8 W	46	4.4	NORTHERN PERU.
2	02 28 13*	7.6 S	76.9 W	21	4.4	NORTHERN PERU.
2	03 17 30*	51.3 N	174.3 E	33	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
2	05 07 14*	37.6 S	178.2 E	61		OFF E. COAST OF N. ISLAND, N.Z.
2	05 07 21.7	52.2 N	173.2 E	92	4.8	NEAR ISLANDS, ALEUTIAN ISLANDS.
2	11 12 43*	18.6 S	177.9 W	558	4.0	FIJI ISLANDS REGION.
2	12 57 04.8	23.3 S	179.8 W	525	4.2	SOUTH OF FIJI ISLANDS.
2	20 19 41.7	52.1 N	175.4 E	37	5.4	RAT ISLANDS, ALEUTIAN ISLANDS. MAG. 5 1/4-5 1/2 (PAL).
2	20 58 40.3	53.1 N	167.6 W	60	6.7	FOX ISLANDS, ALEUTIAN ISLANDS. MAG. 6.9 (PAS), 6.8 (BRK), 6 3/4 (PAL). SLIGHT DAMAGE ON UMNAK ISLAND. .5 FOOT SEISMIC SEA WAVE AT UNALASKA.
2	22 55 57*	49.3 N	129.8 W	33	3.9	VANCOUVER ISLAND REGION.
2	23 35 15*	3.1 S	147.3 E	61	4.7	BISMARCK SEA.
3	02 22 18.2	52.7 N	32.1 W	33	5.3	NORTH ATLANTIC OCEAN.
3	05 40 58*	52.8 N	32.1 W	33	4.0	NORTH ATLANTIC OCEAN.
3	09 25 38*	23.4 S	176.0 W	42	4.7	SOUTH OF FIJI ISLANDS.
3	11 07 54.5	17.6 S	178.0 W	505	4.2	FIJI ISLANDS REGION.
3	11 26 08.7	22.6 N	101.4 E	14	5.3	BURMA-CHINA BORDER REGION. MAG. 5 3/4-6 (PAL).
3	11 51 25.5	22.3 N	101.1 E	33		BURMA-CHINA BORDER REGION.
3	12 22 28.2	4.7 S	133.8 E	11	5.2	WEST NEW GUINEA REGION.
3	15 24 10.0	35.2 N	139.9 E	112	4.5	NEAR S. COAST OF HONSHU, JAPAN.
3	16 32 30*	18.0 S	68.0 W	199	3.9	CHILE-BOLIVIA BORDER REGION.
3	17 10 16.0	32.1 N	82.8 E	15	4.4	TIBET.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
3	20 48 22.9	15.2 S	176.4 W	21	5.0	FIJI ISLANDS REGION.
3	21 20 18*	20.6 S	178.9 W	619	4.1	FIJI ISLANDS REGION.
4	09 01 10.2	15.8 S	176.5 W	375	4.4	FIJI ISLANDS REGION.
4	14 55 04.4	6.2 S	149.7 E	33		NEW BRITAIN REGION.
4	15 54 46*	51.8 N	176.2 E	33	3.9	RAT ISLANDS, ALEUTIAN ISLANDS.
4	17 07 42.2	17.5 S	174.8 W	258	4.4	TONGA ISLANDS.
5	00 13 34*	21.9 S	176.6 W	197	4.3	FIJI ISLANDS REGION.
5	01 37 52.7	43.8 N	149.4 E	33	4.7	KURILE ISLANDS REGION.
5	04 33 08*	35.2 S	106.0 W	33	4.2	EASTER ISLAND CORDILLERA.
5	05 11 00*	26.7 N	111.8 W	33	3.9	GULF OF CALIFORNIA.
5	05 34 08.0	52.6 N	34.2 W	33	4.5	NORTH ATLANTIC OCEAN.
5	08 31 58.3	52.8 N	34.2 W	30	5.6	NORTH ATLANTIC OCEAN. MAG. 5 3/4 (PAS), 5.8 (BRK), 5 1/2-5 3/4 (PAL).
5	16 09 03*	45.9 N	150.6 E	100	4.5	KURILE ISLANDS.
5	17 17 09.1	39.3 N	111.5 W	33		UTAH.
5	19 13 17*	15.6 S	68.0 W	122	4.0	BOLIVIA.
5	20 28 15.5	33.7 S	70.7 W	90	4.4	CHILE-ARGENTINA BORDER REGION. SLIGHT DAMAGE AT VALPARAISO AND VINA DEL MAR. FELT AT SANTIAGO.
5	21 03 41*	51.5 N	171.9 E	26	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
5	23 41 46.9	21.3 N	94.0 E	65	4.5	BURMA.
6	01 12 47.6	59.9 N	149.3 W	44	3.9	KENAI PENINSULA, ALASKA. Felt at Homer.
6	02 08 17*	17.8 S	174.6 W	26	4.7	TONGA ISLANDS.
6	03 04 21.2	22.5 S	172.9 E	54	5.9	LOYALTY ISLANDS REGION. MAG. 5.6 (BRK).
6	03 18 42.7	38.4 N	22.4 E	20	5.9	GREECE. MAG. 6 1/4 (PAS), 6 (BRK), 6-6 1/4 (PAL). ONE KILLED AND 6 INJURED AT ERATINI. CONSIDERABLE DAMAGE IN NORTHERN PELOPONNESUS. SEISMIC SEA WAVE REPORTED AT ERATINI.
6	04 08 47.4	46.8 N	152.5 E	39	5.6	KURILE ISLANDS.
6	04 09 00.8	6.7 N	127.0 E	44	4.7	PHILIPPINE ISLANDS REGION.
6	04 34 22.4	7.3 N	127.0 E	45	4.9	PHILIPPINE ISLANDS REGION.
6	04 48 33.6	4.0 N	113.7 E	65	5.0	SOUTH CHINA SEA.
6	04 58 55.6	55.0 N	162.0 E	34	5.2	NEAR EAST COAST OF KAMCHATKA.
6	05 15 12.7	7.3 N	126.8 E	84		MINDANAO, PHILIPPINE ISLANDS.
6	06 12 41*	54.3 N	160.1 E	33	4.2	NEAR EAST COAST OF KAMCHATKA.
6	06 39 25.0	44.5 N	148.3 E	56	4.4	KURILE ISLANDS.
6	07 43 25*	57.0 N	161.0 E	33	4.3	KAMCHATKA.
6	09 10 06.5	33.4 N	116.5 W	3	3.9	SOUTHERN CALIFORNIA.
6	13 06 59.2	7.4 N	127.0 E	33	4.9	PHILIPPINE ISLANDS REGION.
6	13 21 07.1	36.6 N	73.0 E	163	4.6	NORTHWESTERN KASHMIR.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
6	13 34 15.6	34.8 N	25.5 E	59	4.6	CRETE.
6	14 49 30.8	59.6 S	26.1 W	59	5.2	SOUTH SANDWICH ISLANDS REGION.
6	15 28 34.3	52.8 N	171.9 E	54	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
6	16 25 59.7	8.3 S	107.6 E	59	5.2	JAVA.
6	18 36 47.4	4.5 S	155.1 E	510	6.4	SOLOMON ISLANDS. MAG. 6-6 1/4 (PAS), 5.9 (BRK).
6	20 05 27*	33.6 S	77.8 E	33		MID-INDIAN RISE.
7	00 02 53.7	71.2 N	13.9 W	34	4.1	JAN MAYEN ISLAND REGION.
7	04 51 14.3	38.6 N	74.8 E	33	5.3	TADZHIK-SINKIANG BORDER REGION.
7	07 55 47.4	2.7 N	83.5 W	49	4.3	OFF COAST OF CENTRAL AMERICA.
7	12 08 34.0	49.8 S	116.9 E	25	5.2	SOUTH OF AUSTRALIA.
7	14 22 13.6	52.4 N	173.4 E	50	5.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
7	14 55 04*	29.5 S	70.0 W	80	4.2	CENTRAL CHILE.
7	15 37 21.6	15.1 S	173.0 W	33	4.9	TONGA ISLANDS.
7	17 15 53.9	51.5 N	175.0 E	28	4.8	RAT ISLANDS, ALEUTIAN ISLANDS.
7	18 30 01*	64.5 N	163.8 W	33	4.3	ALASKA.
7	20 09 10*	18.6 N	106.6 W	33	3.8	OFF COAST OF JALISCO, MEXICO.
7	21 38 51.5	32.7 N	138.8 E	226	5.6	SOUTH OF HONSHU, JAPAN. MAG. 5.8 (BRK).
7	23 00 06.4	7.0 S	105.6 E	105	5.8	JAVA. FELT AT DJAKARTA.
7	23 02 29*	14.2 S	172.7 W	32	5.1	SAMOA ISLANDS.
7	23 25 15.8	13.6 S	171.3 W	33	4.3	SAMOA ISLANDS.
7	23 35 27.2	51.3 N	177.2 E	39	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
8	00 13 54.7	71.7 N	1.8 W	33	4.7	JAN MAYEN ISLAND REGION.
8	03 58 50.4	6.9 S	105.5 E	83	5.4	SUNDA STRAIT.
8	07 20 41.4	15.9 N	96.2 W	59	3.8	NEAR COAST OF OAXACA, MEXICO.
8	11 44 48*	19.5 S	68.6 W	219	4.0	CHILE-BOLIVIA BORDER REGION.
8	13 04 03.0	15.8 S	179.2 W	16	4.9	FIJI ISLANDS REGION.
8	14 05 21*	18.7 N	145.1 E	223	4.2	MARIANA ISLANDS.
8	16 07 19.8	16.2 S	174.7 W	57	4.5	TONGA ISLANDS.
8	19 19 43*	6.7 S	129.7 E	185		BANDA SEA.
8	20 27 39*	35.6 S	178.2 E	267		OFF E. COAST OF N. ISLAND, N.Z.
8	23 13 49*	29.7 N	113.9 W	33	4.5	GULF OF CALIFORNIA.
8	23 20 05.2	47.3 N	11.2 E	33	4.4	AUSTRIA. FELT AT INNSBRUCK.
8	23 51 20*	9.7 S	79.7 W	33	4.3	OFF COAST OF NORTHERN PERU.
9	00 41 24.1	29.6 N	113.9 W	33	4.2	GULF OF CALIFORNIA.
9	00 41 49*	7.6 N	147.2 E	5	4.3	CAROLINE ISLANDS REGION.
9	01 26 55*	30.6 N	113.5 W	33	4.4	GULF OF CALIFORNIA.
9	04 17 04.8	18.6 S	168.1 E	33	4.5	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
9	05 04 01*	29.0 N	114.0 W	33	4.2	BAJA CALIFORNIA.
9	12 19 05.7	45.2 N	111.6 W	33		MONTANA. Felt at Ennis.
9	12 46 27*	51.2 N	177.6 E	33	4.0	RAT ISLANDS, ALEUTIAN ISLANDS.
9	15 21 54*	16.0 S	174.3 W	129	4.0	TONGA ISLANDS.
9	15 38 23.5	21.0 S	178.1 W	559		FIJI ISLANDS REGION.
9	16 38 09.5	53.0 N	35.6 W	33	4.6	NORTH ATLANTIC OCEAN.
9	17 05 33*	15.4 S	175.6 W	33	4.2	TONGA ISLANDS.
9	17 32 25*	19.4 N	66.5 W	33	4.2	PUERTO RICO REGION.
9	17 46 41*	7.7 S	80.8 W	33	4.5	OFF COAST OF NORTHERN PERU.
9	21 01 16.5	45.0 N	111.5 W	33		MONTANA.
9	22 48 46.9	47.7 N	12.9 E	33		AUSTRIA. FELT ALONG AUSTRIA-GERMANY BORDER.
10	00 32 27.1	30.0 S	178.7 W	33	4.9	KERMADEC ISLANDS REGION.
10	01 16 54.0	30.1 S	178.9 W	33	4.8	KERMADEC ISLANDS REGION.
10	02 05 42*	55.3 N	162.5 E	39	4.3	NEAR EAST COAST OF KAMCHATKA.
10	02 07 43.0	30.0 S	178.7 W	11	5.0	KERMADEC ISLANDS REGION.
10	02 25 50*	55.3 N	162.6 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
10	02 36 09*	49.9 N	178.4 E	33	4.2	ALEUTIAN ISLANDS REGION.
10	03 20 01*	55.6 N	162.0 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
10	03 25 48*	30.0 S	178.9 W	66	4.8	KERMADEC ISLANDS REGION.
10	03 37 28.8	55.4 N	162.4 E	33	4.4	NEAR EAST COAST OF KAMCHATKA.
10	03 39 40.1	55.3 N	162.4 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
10	04 01 15*	55.4 N	162.6 E	33	4.1	NEAR EAST COAST OF KAMCHATKA.
10	04 26 42.9	55.3 N	162.5 E	45	5.0	NEAR EAST COAST OF KAMCHATKA.
10	04 35 47.6	55.3 N	162.4 E	33	4.6	NEAR EAST COAST OF KAMCHATKA.
10	04 54 20.6	55.5 N	162.2 E	35	4.3	NEAR EAST COAST OF KAMCHATKA.
10	04 57 21.7	55.3 N	162.4 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
10	05 10 48.4	30.1 S	178.8 W	73	4.7	KERMADEC ISLANDS REGION.
10	06 52 12.6	45.1 N	111.5 W	33		MONTANA.
10	07 18 17.0	45.1 N	111.4 W	33		MONTANA.
10	07 55 22.5	30.0 S	178.9 W	77	4.6	KERMADEC ISLANDS REGION.
10	08 09 46.4	34.7 N	23.3 E	9		CRETE.
10	08 50 07.6	11.5 S	165.9 E	103	4.4	SANTA CRUZ ISLANDS.
10	09 33 31.2	17.5 S	178.7 W	599	3.8	FIJI ISLANDS REGION.
10	09 43 29.3	24.3 S	179.8 W	498	4.9	SOUTH OF FIJI ISLANDS.
10	11 20 01.2	55.3 N	162.6 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
10	12 52 24.6	45.5 N	151.5 E	45	4.9	KURILE ISLANDS.
10	14 07 53*	30.3 S	178.9 W	72	4.5	KERMADEC ISLANDS REGION.
10	14 54 45.8	55.4 N	162.3 E	34	4.7	NEAR EAST COAST OF KAMCHATKA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
10	16 48 41.6	30.3 S	178.6 W	47	4.8	KERMADEC ISLANDS REGION.
10	17 20 41*	33.5 S	77.7 E	33		MID-INDIAN RISE.
10	19 22 18.8	41.6 N	140.4 E	129	5.2	HOKKAIDO, JAPAN REGION.
10	21 11 36.1	30.7 S	178.4 W	98	4.4	KERMADEC ISLANDS REGION.
10	23 45 48*	30.0 S	178.6 W	33		KERMADEC ISLANDS REGION.
11	01 52 58.3	5.9 S	147.3 E	77	4.9	EAST NEW GUINEA REGION.
11	01 53 06.0	11.0 N	61.6 W	68	4.5	WINDWARD ISLANDS.
11	05 21 44.7	15.1 S	173.7 W	52	4.9	TONGA ISLANDS.
11	06 12 07.1	56.6 N	152.2 W	33	4.7	KODIAK ISLAND REGION.
11	07 12 58.5	58.0 N	151.4 W	7	5.1	KODIAK ISLAND REGION.
11	07 59 10.0	51.5 N	175.6 E	52	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.
11	09 52 19*	62.3 N	25.7 W	33	4.7	ICELAND REGION.
11	16 15 21.2	36.4 N	139.7 E	81	4.5	HONSHU, JAPAN.
11	19 09 31.8	13.3 N	144.7 E	57	4.8	MARIANA ISLANDS. FELT ON GUAM.
11	19 28 33.9	40.4 N	116.1 W	33	3.6	NEVADA.
11	20 12 42.8	19.1 S	175.6 W	257	4.7	TONGA ISLANDS.
11	22 54 44*	16.6 S	173.0 W	33	4.7	TONGA ISLANDS.
12	03 21 27.6	19.0 S	175.2 W	226	4.2	TONGA ISLANDS.
12	05 34 11.0	16.6 S	172.8 W	62	5.0	SAMOA ISLANDS REGION.
12	06 43 13*	54.1 N	164.2 W	33	4.3	UNIMAK ISLAND REGION.
12	09 51 45.8	37.6 N	29.3 E	23	4.6	TURKEY. FELT AT DENIZILI, MUGLA, AND ISPARTA.
12	11 21 40.9	40.6 N	141.8 E	60	4.8	NEAR EAST COAST OF HONSHU, JAPAN.
12	11 39 15.7	6.8 S	105.7 E	80	4.8	SUNDA STRAIT.
12	13 52 38.5	36.4 N	70.7 E	212	5.0	HINDU KUSH REGION.
12	13 57 14.8	28.4 S	68.3 W	118	5.7	LA RIOJA PROVINCE, ARGENTINA. MAG. 5.6 (BRK). FELT AT COPIAPO.
12	18 39 46.7	4.6 S	103.2 E	80	5.3	SOUTHERN SUMATRA.
12	18 50 55.9	33.9 N	132.2 E	45	4.8	SHIKOKU, JAPAN.
12	21 29 55.1	51.8 N	176.7 E	63	4.2	RAT ISLANDS, ALEUTIAN ISLANDS.
13	00 36 31.5	15.3 N	92.0 W	123	5.0	MEXICO-GUATEMALA BORDER REGION.
13	06 23 49.9	20.2 S	174.1 W	63	5.1	TONGA ISLANDS.
13	10 03 56.7	6.8 S	106.7 E	147	5.0	JAVA.
13	14 09 20.9	51.5 N	178.3 W	55	5.2	ANDREANOF ISLANDS, ALEUTIAN IS.
13	14 18 25.5	11.4 N	139.8 E	33	4.6	WEST CAROLINE ISLANDS.
13	14 18 58.7	37.5 N	27.9 E	21	4.4	TURKEY.
13	14 41 11.3	0.9 S	121.5 E	129	5.5	NORTHERN CELEBES.
13	17 58 02*	13.2 S	75.1 W	102	4.0	PERU.
13	19 37 11.7	4.3 S	143.3 E	102	5.4	NEW GUINEA. FELT AT DREIKIKIR.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
13	19 45 25.6	21.2 S	176.2 W	202	4.5	FIJI ISLANDS REGION.
13	21 34 56*	20.6 S	68.1 W	181	4.4	CHILE-BOLIVIA BORDER REGION.
13	21 43 20*	6.0 N	33.2 W	33	4.4	CENTRAL MID-ATLANTIC RIDGE.
13	21 57 08.9	40.3 N	124.8 W	23	4.7	NEAR COAST OF NORTHERN CALIF. MAG. 4 (BRK).
13	22 34 48.5	3.2 S	77.7 W	90	4.4	PERU-ECUADOR BORDER REGION.
13	22 49 46.1	2.9 S	78.8 W	112	4.6	ECUADOR.
13	23 09 53.0	36.5 N	70.7 E	200	5.0	HINDU KUSH REGION.
14	00 41 16*	50.8 N	157.3 E	50	4.4	KURILE ISLANDS.
14	02 29 29.4	57.1 N	146.8 W	33	4.5	GULF OF ALASKA.
14	04 37 03.1	13.3 N	144.6 E	52	4.5	MARIANA ISLANDS.
14	08 26 45.9	39.0 N	117.6 W	33	3.9	NEVADA. MAG. 4.3 (BRK).
14	10 12 03.5	60.6 S	24.7 W	33	5.7	SOUTH SANDWICH ISLANDS REGION.
14	12 16 36.8	52.5 N	168.6 W	32	4.5	FOX ISLANDS, ALEUTIAN ISLANDS.
14	12 29 56.6	17.6 S	69.5 W	146	5.0	PERU-BOLIVIA BORDER REGION.
14	13 37 37*	17.1 S	69.3 W	171	4.2	PERU-BOLIVIA BORDER REGION.
14	13 45 58.0	52.4 N	168.6 W	33	5.0	FOX ISLANDS, ALEUTIAN ISLANDS.
14	15 46 25*	38.6 N	21.2 E	117	4.1	GREECE. FELT ON ZANTE ISLAND.
14	17 06 47.4	1.3 N	90.8 W	33	4.7	GALAPAGOS ISLANDS REGION.
14	17 18 35*	1.0 N	91.2 W	33	4.7	GALAPAGOS ISLANDS REGION.
14	17 55 51.4	52.6 N	168.7 W	6	5.3	FOX ISLANDS, ALEUTIAN ISLANDS.
14	18 01 30.1	52.5 N	168.6 W	22	5.1	FOX ISLANDS, ALEUTIAN ISLANDS.
14	18 06 03.2	2.2 N	95.2 W	33	4.6	GALAPAGOS ISLANDS REGION.
14	18 13 24.3	0.0 N	123.0 E	241	5.2	NORTHERN CELEBES.
15	02 18 00*	17.7 S	178.2 W	594		FIJI ISLANDS REGION.
15	05 45 04*	61.8 N	148.8 W	64	3.8	SOUTHERN ALASKA. FELT IN ANCHORAGE AREA.
15	07 01 41.6	44.9 N	111.7 W	33	4.2	HEBGEN LAKE REGION.
15	08 01 16.6	13.1 S	166.9 E	120	4.8	NEW HEBRIDES ISLANDS.
15	08 31 24.6	6.6 S	80.9 W	36	4.4	NEAR COAST OF NORTHERN PERU.
15	14 16 07.0	37.3 N	74.4 W	0	5.1	OFF EAST COAST OF UNITED STATES. PLANNED DETONATION OF 700 TONS TNT EQUIVALENT SURPLUS U.S. NAVY EXPLOSIVES ABOARD S S COSTAL MARINER.
15	17 50 54.9	29.9 N	138.7 E	403	4.8	SOUTH OF HONSHU, JAPAN.
15	18 14 29*	51.0 N	178.9 E	30	4.1	RAT ISLANDS, ALEUTIAN ISLANDS.
15	18 33 30.7	7.7 N	123.8 E	590	6.0	MINDANAO, PHILIPPINE ISLANDS.
15	20 32 59.7	23.5 S	179.9 W	528	5.2	SOUTH OF FIJI ISLANDS.
15	21 05 05*	30.6 S	179.6 W	335		KERMADEC ISLANDS.
16	01 18 24.2	34.1 N	117.4 W	16	4.1	SOUTHERN CALIFORNIA. FELT IN RIVERSIDE AND SAN BERNARDINO COUNTIES.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
16	02 12 11.2	4.6 S	152.4 E	92	5.2	NEW BRITAIN REGION.
16	02 53 07*	39.2 S	72.1 W	54	4.1	CENTRAL CHILE.
16	07 00 11.2	58.8 S	25.0 W	33	4.8	SOUTH SANDWICH ISLANDS REGION.
16	07 27 10.8	19.4 S	177.6 W	563	4.9	FIJI ISLANDS REGION.
16	07 46 21.5	34.4 N	118.6 W	25	4.5	SOUTHERN CALIFORNIA. MAG. 4 (PAS). SLIGHT DAMAGE AT SAUGUS AND PASADENA. FELT AT LOS ANGELES, TEHACHAPI, AND IN SAN FERNANDO VALLEY.
16	10 34 12*	11.6 N	88.0 W	30	4.9	OFF COAST OF CENTRAL AMERICA.
16	11 21 10*	11.6 N	87.8 W	33	4.8	NEAR COAST OF NICARAGUA.
16	12 19 22*	14.6 S	173.1 W	50	4.8	SAMOA ISLANDS REGION.
16	12 47 14.3	1.2 N	90.5 W	44	5.1	GALAPAGOS ISLANDS REGION.
16	13 17 08.0	11.9 S	166.2 E	60	4.5	SANTA CRUZ ISLANDS.
16	16 35 42.6	2.9 S	127.5 E	34	4.8	CERAM SEA.
16	17 01 00*	21.8 S	69.5 W	33	4.3	NORTHERN CHILE.
16	18 09 35*	23.5 S	67.8 W	193	4.1	CHILE-ARGENTINA BORDER REGION.
16	22 33 16.1	11.8 S	166.0 E	28	4.6	SANTA CRUZ ISLANDS. MAG. 5.5 (BRK).
17	04 05 17*	10.1 N	86.5 W	33	4.3	OFF COAST OF COSTA RICA.
17	07 20 30.7	9.7 S	159.8 E	24	6.4	SOLOMON ISLANDS. MAG. 5.5 (BRK). FELT AT HONIARA.
17	12 47 48.7	7.2 S	153.7 E	23	5.7	NEW BRITAIN REGION.
17	12 50 55*	51.3 N	173.5 E	33	4.4	NEAR ISLANDS, ALEUTIAN ISLANDS.
17	12 59 11.0	27.1 S	177.6 W	27	5.4	KERMADEC ISLANDS. MAG. 5.5 (BRK).
17	13 18 32.3	17.4 S	167.1 E	49	4.7	NEW HEBRIDES ISLANDS.
17	13 59 46*	12.2 N	87.9 W	56	4.4	NEAR COAST OF NICARAGUA.
17	15 52 25.7	17.9 N	61.5 W	24	5.2	LEEWARD ISLANDS.
17	18 09 10.9	30.7 N	130.4 E	114	4.1	KYUSHU, JAPAN.
17	18 21 34.6	54.5 N	161.5 W	37	5.0	ALASKA PENINSULA.
17	20 01 14.5	16.4 S	167.7 E	28	5.0	NEW HEBRIDES ISLANDS.
18	03 55 51*	39.5 N	109.9 W	33	3.1	UTAH.
18	05 32 46.8	7.9 N	142.2 E	25	4.7	CAROLINE ISLANDS REGION.
18	06 59 07.0	21.0 S	67.8 W	186	4.1	CHILE-BOLIVIA BORDER REGION.
18	07 23 32.2	52.5 N	163.6 W	35	4.9	SOUTH OF ALASKA.
18	07 57 47*	35.5 N	139.7 E	78	4.5	NEAR S. COAST OF HONSHU, JAPAN.
18	09 41 26*	56.9 N	151.1 W	33	4.3	KODIAK ISLAND REGION.
18	09 59 45.8	46.6 N	152.4 E	36	4.6	KURILE ISLANDS.
18	13 31 43.9	27.4 S	176.0 W	24	4.8	KERMADEC ISLANDS.
18	15 58 11*	33.7 N	116.2 W	16	4.4	SOUTHERN CALIFORNIA.
18	17 49 14.0	51.1 N	178.1 E	30	4.7	RAT ISLANDS, ALEUTIAN ISLANDS.
18	19 03 42.3	36.7 N	121.7 W	16	4.4	CENTRAL CALIFORNIA. MAG. 3.6 (BRK). FELT AT HOLLISTER.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
18	21 40 45*	39.8 N	104.8 W	5	4.6	COLORADO. SLIGHT DAMAGE NORTH OF COMMERCE CITY. FELT AT DENVER AND THORNTON.
18	22 15 03.3	45.4 N	151.5 E	35	5.5	KURILE ISLANDS.
19	00 03 55.1	45.5 N	151.4 E	45	5.1	KURILE ISLANDS.
19	04 13 21.7	9.1 N	70.5 W	41	5.3	VENEZUELA. MODERATE PROPERTY DAMAGE IN STATE OF TRUJILLO. FELT WIDELY.
19	05 39 49*	10.2 S	154.2 E	33	4.8	DENTRECASTEAUX ISLANDS REGION.
19	06 47 22.0	27.7 N	139.8 E	477	5.0	BONIN ISLANDS REGION.
19	07 35 01.1	54.1 N	163.4 W	42	4.4	UNIMAK ISLAND REGION.
19	07 36 32.3	27.3 S	70.8 W	7	4.7	NEAR COAST OF NORTHERN CHILE.
19	08 51 36.1	6.9 S	147.5 E	71	5.6	EAST NEW GUINEA REGION.
19	08 52 10.6	30.7 N	50.1 E	35	4.2	IRAN.
19	09 07 16.6	2.6 N	96.8 E	69	4.9	NORTHERN SUMATRA.
19	09 09 34*	2.3 N	96.4 E	4	5.1	NORTHERN SUMATRA.
19	10 16 15.8	48.8 N	154.1 E	70	5.2	KURILE ISLANDS.
19	10 40 21.0	16.8 N	97.8 W	78	4.3	OAXACA, MEXICO.
19	12 37 22.6	28.2 S	68.8 W	97	5.2	LA RIOJA PROVINCE, ARGENTINA.
19	14 30 43.8	37.3 N	71.8 E	171		AFGHANISTAN-USSR BORDER REGION.
19	15 05 01.2	26.8 S	71.0 W	45	4.7	OFF COAST OF NORTHERN CHILE.
19	15 18 52*	30.5 S	60.1 E	33	5.0	ATLANTIC-INDIAN RISE.
19	15 49 36*	12.1 N	42.6 E	33		ETHIOPIA.
19	16 46 04.6	11.9 S	166.0 E	57	4.5	SANTA CRUZ ISLANDS.
19	20 09 05.4	7.1 N	126.8 E	88		MINDANAO, PHILIPPINE ISLANDS.
19	21 45 02*	40.8 N	125.5 W	33	4.5	OFF COAST OF NORTHERN CALIFORNIA. MAG. 3 1/4 (BRK).
19	22 14 21.7	10.6 N	85.3 W	80	4.6	COSTA RICA.
19	23 53 56.2	25.6 S	180.0 E	497	4.8	SOUTH OF FIJI ISLANDS.
20	00 53 06.0	31.6 N	114.3 W	33	4.7	GULF OF CALIFORNIA.
20	01 31 42.4	31.5 N	114.0 W	33	4.3	GULF OF CALIFORNIA.
20	04 04 16*	35.6 N	135.2 E	61	4.1	SOUTHERN HONSHU, JAPAN.
20	07 43 27.7	36.7 N	71.4 E	194	5.1	AFGHANISTAN-USSR BORDER REGION.
20	11 19 54.2	48.8 N	155.7 E	49	5.2	KURILE ISLANDS.
20	13 18 27.7	7.5 N	124.3 E	45	5.7	MINDANAO, PHILIPPINE ISLANDS. FELT AT COTABATO, MALAYBALAY, AND GENERAL SANTOS.
20	13 38 49*	22.1 S	68.4 W	123	4.5	NORTHERN CHILE.
20	13 52 48.0	26.5 S	176.5 W	49	5.0	SOUTH OF FIJI ISLANDS.
20	14 49 28.8	37.9 N	112.5 W	33		UTAH.
20	15 04 21.9	58.1 S	26.1 W	33	4.3	SOUTH SANDWICH ISLANDS REGION.
20	16 57 00.2	62.0 N	147.0 W	33	4.0	CENTRAL ALASKA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
20	20 11 41.1	53.9 N	166.5 W	73	5.1	FOX ISLANDS, ALEUTIAN ISLANDS.
21	00 30 14.7	27.2 S	176.3 W	33	4.8	KERMADEC ISLANDS.
21	02 51 39.0	20.9 S	175.7 W	58	5.7	TONGA ISLANDS. MAG. 6.0 (BRK).
21	03 49 27.0	24.1 S	69.5 E	33	4.6	MID-INDIAN RISE.
21	08 44 33*	24.8 S	180.0 W	422	4.1	SOUTH OF FIJI ISLANDS.
21	09 08 12.3	59.1 N	153.9 W	53	4.5	SOUTHERN ALASKA.
21	16 18 01.2	11.9 S	166.0 E	54	4.9	SANTA CRUZ ISLANDS.
21	16 56 51.2	51.9 N	174.0 E	42	4.6	NEAR ISLANDS, ALEUTIAN ISLANDS.
21	17 52 29.4	53.3 N	170.4 E	17	5.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
21	22 40 26.7	36.5 N	71.4 E	105	4.6	AFGHANISTAN-USSR BORDER REGION.
21	23 50 24*	16.2 S	173.5 W	59	4.2	TONGA ISLANDS.
22	01 18 52.0	50.9 N	176.0 E	44	5.6	RAT ISLANDS, ALEUTIAN ISLANDS.
22	16 28 16.9	16.8 S	173.6 W	44	5.0	TONGA ISLANDS.
22	17 46 28.9	10.1 S	161.7 E	58	4.4	SOLOMON ISLANDS. FELT AT HONIARA.
22	19 46 58*	15.2 S	173.6 W	33	4.3	TONGA ISLANDS.
23	00 58 55*	21.4 S	71.1 W	28	4.3	OFF COAST OF NORTHERN CHILE.
23	01 21 07*	15.0 N	99.1 W	33	3.9	OFF COAST OF GUERRERO, MEXICO.
23	05 01 41.3	55.9 S	27.7 W	126	4.7	SOUTH SANDWICH ISLANDS REGION.
23	06 01 50.7	53.1 N	171.7 E	33	4.0	NEAR ISLANDS, ALEUTIAN ISLANDS.
23	09 38 32.2	12.3 S	166.2 E	37	4.3	SANTA CRUZ ISLANDS.
23	11 32 24.1	35.2 S	70.7 W	108	4.4	CHILE-ARGENTINA BORDER REGION.
23	13 17 58.3	14.8 S	167.4 E	37	4.5	NEW HEBRIDES ISLANDS.
23	15 13 22.4	8.8 S	79.5 W	43	5.3	NEAR COAST OF NORTHERN PERU.
23	17 00 00.0					37° 05′ 52.2″N. 116° 01′ 58.8″W. NEVADA TEST SITE. "BRONZE" SHOT ELEVATION 750.9 METERS (AEC).
23	20 10 29*	10.1 S	41.1 E	33	4.6	NORTHWEST OF MALAGASAY REPUBLIC.
23	20 30 17*	61.1 N	3.6 E	33	4.0	NORWEGIAN SEA.
23	21 29 32.3	26.1 N	65.2 E	19	5.0	WEST PAKISTAN.
23	21 34 34.9	6.3 S	147.8 E	51		EAST NEW GUINEA REGION.
23	23 21 25*	39.1 S	85.5 W	33	4.9	WEST CHILE RISE.
24	00 42 05.4					"BRONZE" COLLAPSE.
24	03 47 43*	46.4 N	153.6 E	30	4.5	KURILE ISLANDS.
24	07 37 25*	5.6 S	150.7 E	59	4.9	NEW BRITAIN REGION.
24	09 47 28.9	22.0 S	170.1 E	39	4.7	LOYALTY ISLANDS REGION.
24	10 47 26.7	54.9 N	162.8 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
24	11 45 07.5	54.7 N	162.9 E	25	4.8	NEAR EAST COAST OF KAMCHATKA.
24	12 16 09*	3.5 S	78.1 W	33	4.2	PERU-ECUADOR BORDER REGION.
24	12 21 58.2	45.1 N	112.9 W	33	4.1	MONTANA.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
24	14 39 45*	19.1 S	169.1 E	137		NEW HEBRIDES ISLANDS.
24	17 57 41.5	36.5 N	71.2 E	225	4.9	AFGHANISTAN-USSR BORDER REGION.
24	20 34 44.9	16.8 S	174.1 W	42	4.5	TONGA ISLANDS.
24	21 38 58.0	54.7 N	162.9 E	33	4.3	NEAR EAST COAST OF KAMCHATKA.
24	23 19 15.1	21.5 S	69.2 W	111	4.3	NORTHERN CHILE.
25	03 40 40.0	2.0 N	99.3 E	97	5.3	NORTHERN SUMATRA.
25	03 43 31.4	23.7 N	121.5 E	46	4.7	TAIWAN.
25	07 10 50.3	9.7 S	160.2 E	11	5.0	SOLOMON ISLANDS. FELT AT HONIARA.
25	08 29 11.3	23.4 S	179.8 W	535	4.6	SOUTH OF FIJI ISLANDS.
25	08 34 43.2	42.1 N	126.0 W	33	4.6	OFF COAST OF OREGON.
25	08 44 22.8	41.8 N	126.8 W	33	5.3	OFF COAST OF NORTHERN CALIFORNIA. MAG. 4.5 (BRK), 5 1/2 (PAL).
25	13 24 44.2	31.0 S	13.5 W	33	4.8	SOUTH ATLANTIC RIDGE.
25	13 33 06.2	41.4 N	146.7 E	33	5.8	OFF COAST OF HOKKAIDO, JAPAN. MAG. 5 (PAL).
25	14 15 54.3	18.5 S	177.7 W	531	3.8	FIJI ISLANDS REGION.
25	14 32 32.5	23.4 S	179.9 W	559	4.3	SOUTH OF FIJI ISLANDS.
25	17 19 30.1	24.6 S	179.9 W	472	4.6	SOUTH OF FIJI ISLANDS.
25	19 52 43.0	18.2 N	68.1 W	77	3.9	MONA PASSAGE.
25	21 46 46.0	51.5 N	176.0 E	39	5.5	RAT ISLANDS, ALEUTIAN ISLANDS. MAG. 5 3/4 (PAS), 5.3 (BRK), 5 3/4 (PAL).
25	21 51 48.7	51.6 N	176.0 E	40	4.5	RAT ISLANDS, ALEUTIAN ISLANDS.
25	22 15 23*	52.9 N	173.6 E	33	4.7	NEAR ISLANDS, ALEUTIAN ISLANDS.
26	00 38 36.6	41.8 N	69.6 E	36	4.7	KIRGIZ SSR.
26	03 32 37.4	23.2 S	179.6 W	524	3.7	SOUTH OF FIJI ISLANDS.
26	07 53 12*	82.0 N	79.2 W	33	4.0	QUEEN ELIZABETH ISLANDS.
26	10 41 44.3	16.1 S	172.6 W	33	4.5	SAMOA ISLANDS REGION.
26	10 43 29.0	14.4 S	166.7 E	56	4.7	NEW HEBRIDES ISLANDS.
26	11 01 21.7	7.4 N	73.0 W	159	4.8	NORTHERN COLOMBIA.
26	13 06 10*	14.9 N	90.9 W	133	3.8	GUATEMALA.
26	13 45 27*	50.4 N	129.2 W	33	4.0	VANCOUVER ISLAND REGION.
26	15 23 49.9	16.0 S	172.8 W	53	5.0	SAMOA ISLANDS REGION. MAG. 5.2 (BRK).
26	16 17 50.1	29.9 N	138.8 E	402	5.0	SOUTH OF HONSHU, JAPAN.
26	16 45 15.8	7.5 S	155.9 E	47	4.9	SOLOMON ISLANDS.
26	16 50 11*	61.3 N	151.9 W	60	3.8	SOUTHERN ALASKA.
26	18 23 00.7	8.3 N	38.9 W	33	4.6	CENTRAL MID-ATLANTIC RIDGE.
26	20 25 30.8	22.6 S	69.1 W	105	4.0	NORTHERN CHILE.
27	01 15 23*	21.2 S	62.9 W	255	4.1	SOUTHERN BOLIVIA.
27	03 52 35*	28.1 N	111.7 W	33	4.3	GULF OF CALIFORNIA.
27	05 00 18.7	51.2 N	179.2 E	46	4.4	RAT ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
27	07 54 35.5	6.0 N	126.0 E	86	5.2	MINDANAO, PHILIPPINE ISLANDS.
27	08 26 25.4	34.3 S	179.1 W	6	4.4	SOUTH OF KERMADEC ISLANDS.
27	11 20 27.5	51.2 N	177.6 E	31	5.4	RAT ISLANDS, ALEUTIAN ISLANDS. FELT ON SHEMYA.
27	12 16 21.5	6.1 N	127.5 E	142	4.7	PHILIPPINE ISLANDS REGION.
27	12 38 12.5	55.7 S	27.4 W	33	5.3	SOUTH SANDWICH ISLANDS REGION.
27	13 08 43.5	33.1 N	115.9 W	16		SOUTHERN CALIFORNIA.
27	14 04 40.0	33.2 N	115.9 W	16	4.2	SOUTHERN CALIFORNIA.
27	15 17 50.7	33.1 N	116.0 W	16	4.1	SOUTHERN CALIFORNIA.
27	15 53 44.1	6.8 S	155.1 E	85	5.5	SOLOMON ISLANDS.
27	16 00 12.3	59.4 N	137.0 W	28	4.2	SOUTHEASTERN ALASKA.
27	16 17 45.7	23.8 N	122.0 E	59	4.6	TAIWAN REGION.
27	17 38 51*	4.9 S	153.8 E	37		NEW IRELAND REGION. FELT AT RABAUL.
27	17 46 15*	46.5 N	154.6 E	35	3.8	KURILE ISLANDS REGION.
27	21 16 03.0	40.3 N	139.3 E	199	4.8	NEAR WEST COAST OF HONSHU, JAPAN.
27	21 42 09*	85.3 N	15.5 E	33		NORTH OF SVALBARD.
28	02 25 20*	24.8 S	65.8 W	144	4.3	SALTA PROVINCE, ARGENTINA.
28	05 58 32.7	36.4 N	138.7 E	149	4.5	HONSHU, JAPAN.
28	08 03 10.7	36.0 N	70.4 E	150		HINDU KUSH REGION.
28	08 33 43.9	18.3 S	175.3 W	140		TONGA ISLANDS.
28	09 09 39*	30.4 S	66.6 W	50	4.3	LA RIOJA PROVINCE, ARGENTINA.
28	11 24 10.6	18.0 S	167.7 E	6	4.6	NEW HEBRIDES ISLANDS. FELT AT PORT VILA.
28	12 02 04.3	17.9 S	178.2 W	600	4.0	FIJI ISLANDS REGION.
28	13 20 14.5	14.5 N	90.3 W	220	4.3	GUATEMALA.
28	13 55 05*	14.0 N	91.9 W	33	3.9	GUATEMALA.
28	14 26 20.0	59.0 N	153.8 W	34	4.5	SOUTHERN ALASKA.
28	18 46 35.8	42.2 S	82.7 W	33	4.9	WEST CHILE RISE.
28	19 42 48*	15.7 S	73.9 W	92	4.1	SOUTHERN PERU.
28	22 29 07.5	2.2 S	101.9 E	135	5.7	SOUTHERN SUMATRA.
29	03 05 02*	50.4 N	77.9 E	0	4.5	EASTERN KAZAKH SSR.
29	04 02 42.2	44.3 N	114.7 W	33	4.4	WESTERN IDAHO.
29	05 26 57.4	15.1 S	173.0 W	50	4.7	TONGA ISLANDS.
29	07 06 12.9	11.7 S	166.2 E	80	4.7	SANTA CRUZ ISLANDS.
29	07 08 19*	51.4 N	177.9 E	33	4.9	RAT ISLANDS, ALEUTIAN ISLANDS.
29	08 25 53*	43.2 N	111.8 W	33	4.0	EASTERN IDAHO.
29	08 29 21.2	50.9 N	171.4 W	22	6.3	ALEUTIAN ISLANDS REGION. MAG. 6 3/4 (PAS), 6.3 (BRK), 6 3/4-7 (PAL). FELT ON ADAK.
29	08 51 44.8	51.2 N	171.6 W	33	5.0	FOX ISLANDS, ALEUTIAN ISLANDS.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
29	08 54 01.4	16.5 N	60.1 W	33	5.4	LEEWARD ISLANDS.
29	09 32 00.8	51.1 N	171.7 W	33	4.5	FOX ISLANDS, ALEUTIAN ISLANDS.
29	09 40 15.3	51.2 N	171.4 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
29	10 13 52.7	51.1 N	171.3 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
29	11 08 31.3	50.9 N	171.5 W	33	4.5	ALEUTIAN ISLANDS REGION.
29	11 13 38*	51.4 N	171.5 W	33	4.0	FOX ISLANDS, ALEUTIAN ISLANDS.
29	11 19 50*	51.3 N	179.1 W	33	4.6	ANDREANOF ISLANDS, ALEUTIAN IS.
29	11 33 22.4	30.0 N	138.7 E	462	4.1	SOUTH OF HONSHU, JAPAN.
29	12 20 22.1	50.7 N	171.6 W	33	5.5	ALEUTIAN ISLANDS REGION.
29	12 55 31*	51.3 N	171.4 W	33	3.9	FOX ISLANDS, ALEUTIAN ISLANDS.
29	13 08 11.4	51.4 N	171.7 W	33	3.7	FOX ISLANDS, ALEUTIAN ISLANDS.
29	13 15 53.2	51.2 N	171.6 W	33	4.4	FOX ISLANDS, ALEUTIAN ISLANDS.
29	13 54 22*	51.4 N	171.6 W	33	3.8	FOX ISLANDS, ALEUTIAN ISLANDS.
29	14 15 51.8	51.1 N	171.5 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
29	15 08 32.6	51.0 N	171.3 W	3	5.5	FOX ISLANDS, ALEUTIAN ISLANDS. MAG. 4 3/4 (PAL).
29	15 10 11.4	50.9 N	171.2 W	33	5.2	ALEUTIAN ISLANDS REGION.
29	15 43 49.8	6.2 S	148.9 E	53	4.6	NEW BRITAIN REGION. FELT AT CAPE GLOUCESTER.
29	15 48 49*	51.3 N	171.4 W	33	4.1	FOX ISLANDS, ALEUTIAN ISLANDS.
29	16 08 33*	51.2 N	171.5 W	33	4.5	FOX ISLANDS, ALEUTIAN ISLANDS.
29	16 59 31.4	51.1 N	171.4 W	40	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
29	18 15 51.0	51.2 N	171.6 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
30	02 11 39.0	22.8 S	63.7 W	524	4.5	SALTA PROVINCE, ARGENTINA.
30	03 01 32*	33.5 N	119.7 W	16	4.3	SOUTHERN CALIFORNIA. SLIGHT DAMAGE AT PORT HUENEME. FELT IN VENTURA COUNTY.
30	03 12 05.4	20.7 S	175.7 W	138	4.3	TONGA ISLANDS.
30	05 45 03.5	24.3 S	179.8 W	538		SOUTH OF FIJI ISLANDS.
30	05 45 16*	18.1 S	70.8 W	72	6.0	NEAR COAST OF NORTHERN CHILE. MAG. 4 3/4 (PAL). FELT AT AREQUIPA, PERU.
30	06 33 31*	12.0 N	88.5 W	33	4.2	OFF COAST OF CENTRAL AMERICA.
30	07 20 09.8	6.8 N	72.9 W	170	5.5	NORTHERN COLOMBIA. FELT AT BOGOTA.
30	08 05 29*	24.6 S	179.9 E	485	4.3	SOUTH OF FIJI ISLANDS.
30	08 10 19.4	52.3 N	171.0 W	53	4.7	FOX ISLANDS, ALEUTIAN ISLANDS.
30	08 31 18*	51.2 N	171.4 W	33	4.3	FOX ISLANDS, ALEUTIAN ISLANDS.
30	10 18 46.0	44.5 N	149.7 E	45	4.5	KURILE ISLANDS.
30	11 25 03.3	45.2 S	167.6 E	37		SOUTH ISLAND, NEW ZEALAND.
30	12 11 07.0	15.1 S	70.8 W	192	4.1	SOUTHERN PERU. FELT AT AREQUIPA.
30	13 35 21*	19.3 S	69.1 W	206	3.9	NORTHERN CHILE.
30	16 32 36.9	1.5 S	78.1 W	167	4.7	ECUADOR.

DATE 1965	ORIGIN TIME G. C. T.	LAT.	LONG.	FOCAL DEPTH	MAG CGS	REGION AND REMARKS
JUL	H M S	DEG	DEG	KM		
30	16 52 50.6	51.2 N	171.4 W	33	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
30	18 29 47*	54.8 N	161.4 E	33	4.1	NEAR EAST COAST OF KAMCHATKA.
30	18 58 58.7	24.4 S	67.7 W	140	5.3	CHILE-ARGENTINA BORDER REGION.
30	19 07 02.9	27.9 N	57.0 E	33	4.7	SOUTHERN IRAN.
30	20 49 20*	24.6 N	125.5 E	70	4.5	SOUTHWESTERN RYUKYU ISLANDS.
30	21 07 41.7	51.7 N	171.8 W	20	4.0	FOX ISLANDS, ALEUTIAN ISLANDS.
30	21 12 03.0	51.3 N	171.6 W	36	4.2	FOX ISLANDS, ALEUTIAN ISLANDS.
30	22 58 45*	16.6 S	69.5 W	178	3.9	PERU-BOLIVIA BORDER REGION.
31	04 04 06*	18.6 N	107.9 W	33	3.8	OFF COAST OF JALISCO, MEXICO.
31	06 05 02.7	18.1 S	178.4 W	564	3.9	FIJI ISLANDS REGION.
31	06 52 19.0	6.0 S	148.6 E	71	4.5	NEW BRITAIN REGION.
31	06 59 23.4	10.2 S	123.7 E	11	5.3	TIMOR.
31	07 17 48.2	18.9 N	108.0 W	33	4.2	REVILLA GIGEDO ISLANDS REGION.
31	07 36 30.6	36.1 N	142.3 E	35	4.9	OFF EAST COAST OF HONSHU, JAPAN.
31	09 05 22*	18.7 N	107.5 W	33	3.8	OFF COAST OF JALISCO, MEXICO.
31	10 38 51*	19.4 S	68.8 W	190	3.9	CHILE-BOLIVIA BORDER REGION.
31	11 16 03.5	56.2 N	153.4 W	20	4.9	KODIAK ISLAND REGION.
31	11 47 03.2	19.9 S	173.3 W	58	4.8	TONGA ISLANDS.
31	11 50 16.4	19.1 N	107.9 W	33	4.2	OFF COAST OF JALISCO, MEXICO.
31	13 41 43*	39.7 N	104.9 W	5	4.6	COLORADO. FELT IN DENVER REGION.
31	14 26 26.3	26.2 S	179.8 E	462	5.6	SOUTH OF FIJI ISLANDS.
31	15 20 40.8	20.9 S	174.0 W	43	4.6	TONGA ISLANDS.
31	15 44 46.2	19.2 S	177.5 W	568	4.7	FIJI ISLANDS REGION.
31	16 06 27.5	28.4 N	111.7 W	33	4.3	GULF OF CALIFORNIA.
31	16 36 54.7	32.7 N	93.3 E	34	4.9	TIBET.
31	17 07 50.1	32.9 N	93.3 E	15	4.8	TIBET.
31	17 53 49.5	7.2 S	129.3 E	144	4.8	BANDA SEA.
31	18 46 35.8	8.0 S	107.2 E	90	4.6	JAVA.
31	19 01 09.0	32.8 N	93.2 E	34	4.7	TIBET.
31	19 56 34.6	31.9 N	140.9 E	85	4.9	SOUTH OF HONSHU, JAPAN.
31	20 33 05.9	12.3 S	166.0 E	40		SANTA CRUZ ISLANDS.
31	21 05 33.5	19.1 N	108.1 W	33	4.3	REVILLA GIGEDO ISLANDS REGION.
31	21 44 46.8	32.7 N	93.2 E	18	4.9	TIBET.

Date and Station	Phase (GCT)
	h m s
JUL 1	
COL IP	00 50 48.4
JUL 1	
HHM E(P)	01 06 44.0
E	07 42.1
JUL 1	
H-01 23 51.4	
34.4N 139.1E	
h ABOUT 39KM	
BRW EP	01 32 41.0
E	32 49.3
COL EP	01 33 02.5
HHM EP	01 35 31.2
BOZ EP	01 35 47.5
E	36 11.8
EUR IP	01 35 54.0
JUL 1	
HON E(P)	01 36 25.9
KIP E(P)	01 36 32.0
JUL 1	
H-02 43 01.4	
30.9N 113.7W	
h ABOUT 33KM	
TUC EP	02 43 46.3
E	43 55.4
EL	44 38.0
BCN E(P)	02 44 17.0
EL	45 50.0
ALQ E(P)	02 44 49.0
EUR EP	02 45 10.3
E(L)	47 31.0
JUL 1	
COL E(P)	02 49 05.0
JUL 1	
COL E(P)	02 51 15.0
JUL 1	
HHM E(P)	03 29 07.2
BOZ IP	03 29 13.0
EUR IP	03 29 14.2
JUL 1	
H-04 54 51.4	
23.3S 067.7W	
h ABOUT 85KM	
CSC E(P)	05 04 39.5
ALQ IP	05 05 47.0
E(PCP)	06 19.5
TUC IP D	05 05 49.7
E	05 57.6
BCN EP	05 06 20.0

Date and Station	Phase (GCT)
	h m s
EUR IP	05 06 37.6
EPCP	06 49.1
BOZ IP	05 06 50.0
HHM IP	05 07 06.4
E	07 39.2
JUL 1	
EUR EP	06 25 09.2
JUL 1	
H-07 16 49.0	
18.2N 146.4E	
h ABOUT 80KM	
GUA IP	07 18 01.8
E(L)	19 01.0
BRW EP	07 27 06.1
EpP	27 27.1
COL EP	07 27 10.0
HHM EP	07 29 06.2
EUR IP	07 29 14.0
IpP	29 36.1
BOZ EP	07 29 18.5
TUC EP	07 29 45.7
ALQ E(P)	07 29 55.8
JUL 1	
HHM E(P)	07 43 28.4
JUL 1	
H-09 35 21.4	
18.3N 147.0E	
h ABOUT 40KM	
GUA E(P)	09 36 38.5
COL EP	09 45 46.9
EUR EP	09 47 48.8
JUL 1	
COL EP	09 51 45.5
JUL 1	
TUC E(P)	10 55 22.0
JUL 1	
COL EP	13 01 30.0
JUL 1	
EUR E(P)	13 51 12.0
JUL 1	
H-14 38 53.6	
50.9N 173.8E	
h ABOUT 45KM	
COL IP	14 44 07.5
BRW EP	14 44 09.0
BOZ IP	14 47 30.0
EUR IP	14 47 39.1

Date and Station	Phase (GCT)
	h m s
JUL 1	
EUR EP	15 09 16.5
JUL 1	
BCN EP	15 17 28.5
ES	17 53.5
JUL 1	
BUT EP	15 57 07.5
JUL 1	
BOZ EP	16 05 43.0
JUL 1	
COL EP	16 23 08.0
JUL 1	
H-16 57 30.4	
12.1N 087.5W	
h ABOUT 176KM	
BOZ EP	17 04 44.0
JUL 1	
COL EP	17 00 48.0
JUL 1	
H-17 41 33.2	
50.1N 158.9E	
h ABOUT 50KM	
COL EP	17 47 48.0
HHM EP	17 50 52.0
BOZ IP	17 51 13.9
EUR IP	17 51 24.8
IpP	51 37.3
I(sP)	51 46.0
BCN EP	17 51 45.7
TUC EP	17 52 17.7
ALQ IP	17 52 21.5
EpP	52 34.0
JUL 1	
H-19 49 05.0	
53.4N 163.7W	
h ABOUT 58KM	
COL IP	19 52 24.2
EUR IP	19 55 53.3
IpP	56 07.7
TUC E(P)	19 57 04.4
JUL 1	
H-19 54 46.9	
56.5N 152.5W	
h ABOUT 33KM	
COL E(P)	19 56 53.0
JUL 1	
BOZ EP	20 17 07.6
EUR E(P)	20 17 15.7
JUL 1	
KIP EP	21 35 18.9

Date and Station	Phase (GCT)
	h m s
JUL 1	
HHM E(P)	21 44 40.8
JUL 1	
HHM E(P)	22 11 20.1
E	11 55.5
JUL 1	
ALQ E(P)	22 21 40.4
E	22 15.4
JUL 1	
TUC E(P)	22 40 02.8
E	40 10.4
JUL 1	
FUR E(P)	22 47 19.1
JUL 1	
H-23 12 45.4	
63.0S 163.6W	
h ABOUT 33KM	
GUA EP	23 25 24.0
HON ES	23 36 42.0
EL	23 51 09.0
KIP EL	23 51 26.0
EUR EP'	23 31 05.0
EPP	31 46.0
EPKKP	42 19.4
BOZ EP'	23 31 25.5
EPP	32 30.5
BUT EPP	23 32 31.5
HHM EP'	23 31 28.2
ALQ E(PP)	23 31 31.0
EL	00 03 10.0
COL EP'	23 31 45.0
JUL 1	
EUR EP	23 21 44.7
JUL 1	
BHP IP C	23 31 53.0
JUL 1	
H-23 41 33.1	
7.3N 126.7E	
h ABOUT 93KM	
COL IP	23 53 42.1
JUL 1	
GUA IP	23 56 13.0
I	56 28.0
JUL 2	
ALQ IP	00 19 28.2
JUL 2	
H-01 09 47.6	
07.7S 076.8W	
h ABOUT 46KM	
ALQ IP	01 18 45.8
TUC E(P)	01 18 49.6

Date and Station	Phase (GCT)
	h m s
EUR IP	01 19 47.2
BOZ EP	01 20 02.5
COL EP	01 22 39.0
JUL 2	
H-02 28 13.0	
7.6S 076.9W	
h ABOUT 21KM	
ALQ IP	02 37 14.2
TUC EP	02 37 17.3
E▸P	37 25.2
EUR IP	02 38 15.1
E▸P	38 23.8
BOZ EP	02 38 30.5
I▸P	38 38.0
COL EP	02 41 07.0
JUL 2	
H-03 17 30.4	
51.3N 174.3E	
h ABOUT 33KM	
COL IP	03 22 41.2
EUR IP	03 26 13.2
E	26 27.9
JUL 2	
BCN IP	03 47 02.0
IS	47 27.0
EUR IP	03 47 10.2
IS	47 44.2
JUL 2	
BCN EP	04 06 50.0
ES	07 16.5
EUR E(P)	04 06 56.2
IS	07 32.5
JUL 2	
HHM E(P)	04 35 21.0
E	35 37.5
JUL 2	
H-05 07 21.7	
52.2N 173.2E	
h ABOUT 92KM	
COL EP	05 12 24.5
HHM EP	05 15 28.9
BOZ EP	05 15 51.0
EUR IP	05 16 01.2
ALQ IP	05 17 05.4
JUL 2	
COL EP	05 32 21.5
JUL 2	
TUC EP	05 49 03.8
EL	49 56.0

Date and Station	Phase (GCT)
	h m s
BCN E(P)	05 49 21.5
EL	50 36.0
JUL 2	
GCA EP	06 47 14.2
EUR EP	06 48 10.0
IL	48 56.6
ALQ E(P)	06 48 28.0
JUL 2	
EUR E(P)	07 43 49.3
JUL 2	
TUC E(P)	08 52 55.0
EUR EP	08 52 55.5
JUL 2	
TUC E(P)	09 19 57.0
JUL 2	
H-11 12 43.0	
18.6S 177.9W	
h ABOUT 558KM	
EUR E(P)	11 24 04.6
TUC EP	11 24 05.0
COL IP	11 24 26.8
JUL 2	
HON E(P)	12 08 10.2
JUL 2	
HON E(P)	12 23 52.0
JUL 2	
H-12 57 04.8	
23.3S 179.8W	
h ABOUT 525KM	
TUC EP	13 08 51.7
EUR E(P)	13 08 51.9
ALQ EP	13 09 12.5
COL EP	13 09 13.0
JUL 2	
TUC E(P)	16 01 48.0
E	02 36.4
JUL 2	
HHM EP	18 50 51.7
JUL 2	
HHM EP	19 25 13.9
E	25 22.2
JUL 2	
BOZ EP	19 34 39.0
HHM EP	19 34 54.2
JUL 2	
H-20 19 41.7	
52.1N 175.4E	
h ABOUT 37KM	
COL IP	20 24 42.8

Date and Station	Phase (GCT)
	h m s
BRW IP	20 24 46.2
EPCP	28 35.4
HHM EP	20 27 44.7
E(▸P)	27 54.7
PCP	29 32.2
▸PCP	29 43.2
BOZ IP	20 28 07.5
ESCP	33 31.0
EUR IP	20 28 16.9
I▸P	28 27.3
IPCP	29 46.2
ESCP	33 36.0
TUC EP	20 29 16.0
E	29 24.8
ALQ EP	20 29 21.5
CSC EP	20 31 00.5
E▸P	31 12.0
SJG EP	20 32 49.0
E▸P	33 01.0
JUL 2	
COL E(P)	20 32 04.5
JUL 2	
H-20 58 40.3	
53.1N 167.6W	
h ABOUT 60KM	
COL IP	21 02 15.2
SIT EP	21 02 57.0
E(S)	06 28.0
BRW IP C	21 02 59.0
KIP IP	21 05 07.3
E	06 31.2
ES	10 36.0
EL	12 09.0
HON IP	21 05 08.0
ES	10 24.0
EL	12 06.0
UKI E(P)	21 05 13.0
HHM IP	21 05 16.9
ES	10 10.1
BUT EP	21 05 33.4
ES	10 39.4
BOZ EP	21 05 40.0
ES	10 34.0
EUR IP D	21 05 49.3
FGU IP	21 05 59.0
SLC IP	21 06 03.2
EPP	07 43.4
ES	12 02.6
EL	15 05.0
BCN IP D	21 06 14.5
I▸P	06 39.2
P'P'	38 24.5

Date and Station	Phase (GCT)
	h m s
GCA IP	21 06 25.3
TUC IP D	21 06 53.6
E(S)	13 32.0
ALQ IP	21 06 59.6
GUA EP	21 08 00.0
ES	15 31.0
WAS I(P)	21 08 41.0
E▸P	08 59.0
E	09 43.0
E	11 09.0
WSC EP	21 08 42.0
PHI IP	21 08 51.1
E▸P	09 09.7
IS	17 01.0
CSC IP D	21 08 52.5
E	09 21.0
IS	17 08.0
BHP IP	21 10 53.0
IS	21 00.0
SJG IP D	21 10 57.5
EPP	14 13.0
IS	21 09.0
I	21 23.2
P'P'	37 38.3
JUL 2	
GUA EP	21 31 15.2
E(S)	32 12.5
JUL 2	
HHM EP	21 36 30.6
BRW EP	21 37 29.9
COL EP	21 37 43.7
GCA E(P)	21 37 55.7
JUL 2	
COL E(P)	21 46 26.0
BRW E(P)	21 46 51.8
JUL 2	
ALQ IP	22 00 55.0
JUL 2	
H-22 55 56.9	
49.3N 129.8W	
h ABOUT 33KM	
BOZ E(P)	22 59 00.0
EUR E(P)	22 59 15.3
COL EP	23 00 09.0
JUL 2	
HHM E(P)	23 50 21.9
EL	51 00.1
JUL 3	
ALQ IP	00 49 46.0

Date and Station	Phase	(GCT)
		h m s
JUL 3		
COL	EP	02 00 42.0
JUL 3		
BOZ	EP	02 10 17.0
JUL 3		
H-02 22 18.2		
52.7N 032.1W		
h ABOUT 33KM		
SJG	EP	02 30 21.0
HHM	EP	02 31 07.7
BOZ	EP	02 31 11.7
	I	31 25.0
	ES	38 26.0
BUT	EP	02 31 12.9
COL	IP	02 31 33.1
ALQ	IP	02 31 42.0
	E	31 53.4
EUR	IP	02 31 59.1
TUC	E(P)	02 32 12.7
JUL 3		
EUR	I(P)	05 14 08.5
JUL 3		
BUT	EP	05 24 35.5
	E	25 19.0
JUL 3		
TUC	E(P)	06 50 31.0
JUL 3		
COL	IP	07 18 24.5
JUL 3		
HHM	E(P)	08 15 46.1
	E	17 11.1
JUL 3		
EUR	IP	08 26 48.5
JUL 3		
H-09 25 37.8		
23.4S 176.0W		
h ABOUT 42KM		
TUC	EP	09 38 03.4
EUR	IP	09 38 05.5
COL	IP	09 38 35.5
JUL 3		
H-11 07 54.5		
17.6S 178.0W		
h ABOUT 505KM		
EUR	EP	11 19 18.5
	E	20 44.0
TUC	EP	11 19 19.0
COL	IP	11 19 38.0
BOZ	EP	11 19 47.0
JUL 3		
TUC	E(P)	11 24 14.0
BCN	E(P)	11 24 46.0
	EL	26 30.0
JUL 3		
H-11 26 08.7		
22.6N 101.4E		
h ABOUT 14KM		
COL	EP	11 38 08.8
BOZ	EP'	11 44 29.5
	EL	12 16 08.0
EUR	EP'	11 44 44.2
TUC	EP'	11 44 54.5
ALQ	IP'	11 44 55.2
JUL 3		
H-11 51 25.5		
22.3N 101.1E		
h ABOUT 33KM		
COL	EP	12 03 23.0
JUL 3		
COL	EP	12 20 27.0
JUL 3		
H-12 22 28.2		
04.7S 133.8E		
h ABOUT 11KM		
GUA	EP	12 27 16.0
COL	EP	12 35 27.0
JUL 3		
SJG	EP	14 16 02.5
	EL	17 04.0
JUL 3		
COL	EP	15 00 39.0
JUL 3		
EUR	EP	15 12 34.0
JUL 3		
H-15 24 10.0		
35.2N 139.9E		
h ABOUT 112KM		
COL	EP	15 33 05.0
HHM	E(P)	15 35 45.5
BOZ	EP	15 35 52.5
EUR	IP	15 35 58.2
	EPCP	36 06.5
	EPP	36 29.2
JUL 3		
H-16 32 30.3		
18.0S 068.0W		
h ABOUT 199KM		
SJG	EP	16 39 14.0
HHM	E(P)	16 44 02.0
	E	44 35.2
JUL 3		
COL	EP	16 54 04.0
JUL 3		
32.1N 082.8E		
H-17 10 16.0		
h ABOUT 15KM		
COL	EP	17 22 02.0
JUL 3		
EUR	IP	17 34 56.8
JUL 3		
COL	EP	17 35 27.0
JUL 3		
H-20 48 22.9		
15.2S 176.4W		
h ABOUT 21KM		
BCN	EP	21 00 22.0
TUC	E(P)	21 00 24.5
EUR	IP	21 00 25.0
COL	IP	21 00 45.2
ALQ	E(P)	21 00 47.4
BOZ	EP	21 00 54.0
HHM	EP	21 00 56.3
JUL 3		
H-21 20 18.0		
20.6S 178.9W		
h ABOUT 619KM		
EUR	E(P)	21 31 45.0
COL	EP	21 32 05.0
JUL 3		
KIP	EP	21 33 28.8
	E	35 24.2
JUL 3		
HHM	EP	22 01 00.0
	E	01 33.0
JUL 3		
COL	IP	22 21 29.0
JUL 3		
GUA	IP	23 25 03.0
	IS	25 15.0
JUL 4		
EUR	E(P)	00 17 33.8
JUL 4		
EUR	IP	00 58 33.8
JUL 4		
HHM	E(P)	01 18 04.7
JUL 4		
HON	EP	01 24 29.1
KIP	EP	01 24 30.0
JUL 4		
TUC	EP	01 48 57.0
JUL 4		
EUR	EP	02 52 24.8
JUL 4		
COL	EP	04 33 09.5
JUL 4		
HHM	EP	06 01 03.1
JUL 4		
EUR	E(P)	06 54 56.0
JUL 4		
H-09 01 10.2		
15.8S 176.5W		
h ABOUT 375KM		
BCN	EP	09 12 29.0
EUR	IP	09 12 33.9
TUC	EP	09 12 36.0
COL	IP	09 12 56.7
ALQ	IP	09 12 58.0
BOZ	IP	09 13 05.0
	E	14 12.0
JUL 4		
COL	IP	09 04 11.4
JUL 4		
ALQ	EP	10 18 14.0
JUL 4		
SJG	EP	11 39 04.2
	IS	39 25.5
JUL 4		
TUC	E(P)	14 28 37.5
JUL 4		
H-14 55 04.4		
6.2 5 149.7E		
h ABOUT 33KM		
COL	EP	15 07 32.8
EUR	EP	15 08 36.2
JUL 4		
COL	EP	15 13 55.5
JUL 4		
H-15 54 45.6		
51.8N 176.2E		
h ABOUT 33KM		
COL	EP	15 59 44.0
BRW	E(P)	15 59 57.7
EUR	E(P)	16 03 17.0
JUL 4		
EUR	EP	16 20 56.0

Date and Station	Phase (GCT)
	h m s
JUL 4	
EUR E(P)	16 43 13.1
JUL 4	
H-17 07 42.2	
17.5S 174.8W	
h ABOUT 258KM	
EUR E(P)	17 19 18.0
TUC EP	17 19 18.0
COL IP	17 19 46.9
JUL 4	
HHM EP	17 21 21.4
JUL 4	
TUC E(P)	18 51 38.0
JUL 4	
EUR IP	19 00 48.8
JUL 4	
HHM EP	20 50 22.7
E	50 41.2
JUL 4	
SJG IP C	21 57 50.0
IS	58 05.5
JUL 4	
SJG EP	23 45 32.3
ES	45 58.8
JUL 4	
EUR IP	23 59 20.5
IL	59 55.4
JUL 5	
H-00 13 33.6	
21.9S 176.6W	
h ABOUT 197KM	
TUC E(P)	00 25 38.2
EUR EP	00 25 39.9
COL IP	00 26 06.9
JUL 5	
H-01 37 52.7	
43.8N 149.4E	
h ABOUT 33KM	
COL E(P)	01 45 27.0
BOZ EP	01 48 35.0
EUR IP	01 48 44.5
TUC E(P)	01 49 26.9
E(PP)	52 14.6
JUL 5	
BOZ EP	02 44 03.0
EL	44 36.5
JUL 5	
H-04 33 08.2	
35.2S 106.0W	
h ABOUT 33KM	
EUR IP	04 44 47.5
BOZ E(P)	04 45 23.0
JUL 5	
H-05 10 59.8	
26.7N 111.8W	
h ABOUT 33KM	
TUC E(P)	05 12 22.9
JUL 5	
SLC IP	05 24 11.2
I	24 38.0
EUR EP	05 24 59.1
E(S)	26 08.4
JUL 5	
EUR E(P)	05 32 44.0
E(S)	33 49.0
JUL 5	
H-05 34 08.0	
52.6N 034.2W	
h ABOUT 33KM	
BOZ EP	05 42 57.0
COL EP	05 43 17.5
E	43 28.7
ALQ E(P)	05 43 22.0
EUR E(P)	05 43 38.0
JUL 5	
EUR E(P)	05 39 31.6
JUL 5	
TUC E(P)	06 08 33.0
JUL 5	
UKI IP	06 37 21.5
EUR EP	06 38 42.2
COL IP	06 39 59.0
JUL 5	
TUC E(P)	06 53 29.1
JUL 5	
TUC E(P)	07 04 48.2
JUL 5	
TUC E(P)	07 09 37.9
E	09 49.1
JUL 5	
TUC E(P)	07 31 54.8
JUL 5	
H-08 31 58.3	
52.8N 034.2W	
h ABOUT 30KM	
WSC EP	08 38 25.4
WAS E(P)	08 38 27.0
CSC EP	08 39 16.0
ES	45 08.0
SJG EP	08 39 54.0
EPP	41 35.0
ES	46 15.0
EL	51 23.0
ET	09 23 57.0
HHM IP	08 40 39.8
E	42 13.8
EL	51 26.8
BOZ IP D	08 40 42.5
I	40 48.0
ES	47 48.0
EL	51 24.0
BUT EP	08 40 44.9
ES	47 56.0
EL	51 34.0
BRW IP	08 40 50.2
I▸P	40 58.8
SLC EP	08 41 07.2
COL IP	08 41 07.3
I	41 18.5
ALQ IP	08 41 13.0
GCA E(P)	08 41 24.5
EUR IP	08 41 31.2
I	41 45.1
EPP	43 32.0
BCN EP	08 41 43.8
TUC E(P)	08 41 44.0
E▸P	41 54.0
E	41 59.5
ES	49 44.0
BHP IS	08 49 34.0
IL	58 04.0
JUL 5	
TUC E(P)	09 24 32.0
JUL 5	
TUC E(P)	09 29 22.3
JUL 5	
EUR E(P)	10 13 55.1
JUL 5	
HON EL	12 09 08.0
JUL 5	
COL FP	12 11 16.0
JUL 5	
EUR EP	12 25 57.6
JUL 5	
COL EP	12 51 36.0
EUR IP	12 52 29.3
JUL 5	
COL IP	13 38 36.5
JUL 5	
EUR EP	15 09 25.4
JUL 5	
H-16 09 02.7	
45.9N 150.6E	
h ABOUT 100KM	
COL IP	16 16 11.1
BOZ EP	16 19 25.5
EUR E(P)	16 19 34.5
JUL 5	
HHM EP	16 16 33.7
JUL 5	
H-17 17 09.1	
39.3N 111.5W	
h ABOUT 33KM	
SLC EP	17 17 34.1
GCA E(P)	17 17 46.3
EUR IP	17 18 03.7
I	18 07.0
EL	18 54.0
ALQ IP	17 18 32.8
E	18 53.5
EL	20 05.5
BOZ EP	17 18 49.5
JUL 5	
COL EP	17 17 21.0
JUL 5	
TUC E(P)	17 19 11.5
E	20 39.0
JUL 5	
COL EP	18 36 23.0
JUL 5	
COL IP	18 39 58.0
JUL 5	
WSC EP	19 45 16.3
I	46 15.6
JUL 5	
COL EP	19 58 57.0
JUL 5	
EUR EP	20 04 39.0
JUL 5	
COL EP	20 04 01.0
JUL 5	
H-20 28 15.5	
33.7S 070.7W	
h ABOUT 90KM	
ALQ IP	20 39 54.6
E▸P	40 18.6
EUR IP	20 40 38.0
E▸P	41 02.0
BOZ IP	20 40 52.8
I▸P	41 17.0

Date and Station	Phase (GCT)
	h m s
JUL 5	
H-21 03 41.4	
51.5N 171.9E	
h ABOUT 26KM	
COL IP	21 09 01.3
HHM E(P)	21 12 03.2
BOZ EP	21 12 26.0
I	12 31.7
EUR IP	21 12 35.9
JUL 5	
H-23 41 46.9	
21.3N 094.0E	
h ABOUT 65KM	
COL EP	23 54 01.2
JUL 6	
H-01 12 47.6	
59.9N 149.3W	
h ABOUT 44KM	
COL IP	01 14 02.3
HHM EP	01 17 52.8
BOZ EP	01 18 21.0
EUR EP	01 18 47.9
ALQ EP	01 20 03.0
JUL 6	
EUR EP	01 40 49.2
JUL 6	
EUR EP	01 44 22.8
JUL 6	
H-02 08 17.3	
17.8S 174.6W	
h ABOUT 26KM	
COL EP	02 20 51.0
JUL 6	
H-03 04 21.2	
22.5S 172.9E	
h ABOUT 54KM	
GUA EP	03 12 35.0
HON EP	03 13 27.0
EL	28 28.0
KIP EP	03 13 28.0
BCN EP	03 17 15.6
EUR IP	03 17 19.2
IpP	17 35.7
EPP	21 22.8
EL	44 28.0
TUC EP	03 17 21.6
COL IP	03 17 24.9
GCA E(P)	03 17 28.8
ALQ IP	03 17 40.6
JUL 6	
H-03 18 42.7	
38.4N 022.4E	
h ABOUT 20KM	
BRW EP	03 29 58.5
WAS IP	03 30 13.0
E(S)	39 43.0
WSC EP	03 30 15.0
COL IP	03 30 33.4
IS	40 28.0
SJG EP	03 30 40.5
ES	40 34.2
CSC IP D	03 30 46.5
E	31 00.0
ES	40 48.0
SIT E(P)	03 31 08.8
HHM IP	03 31 20.1
ES	41 46.0
EP'P'	57 27.3
BOZ EP	03 31 27.7
E(PPP)	36 44.0
ES	42 00.0
ESKS	43 02.0
EPKKP	49 16.0
EP'P'	57 24.0
BUT EP D	03 31 27.0
ESKS	42 07.8
SLC IP	03 31 45.8
ALQ IP	03 31 55.8
EPKKP	49 03.8
EUR IP	03 31 59.1
E	32 35.7
I(PP)	35 47.8
ESKS	42 36.0
IPKKP	49 04.5
IP'P'	57 15.0
BHP EP	03 32 00.0
GCA EP	03 32 00.0
BCN EP	03 32 12.0
TUC EP	03 32 15.0
EPP	36 18.0
KIP EP'	03 37 36.4
JUL 6	
COL EP	03 49 46.0
JUL 6	
COL E(P)	03 54 05.0
JUL 6	
H-04 08 47.4	
46.8N 152.5E	
h ABOUT 39KM	
BRW EP	04 15 31.0
COL IP	04 15 50.4
HHM IP	04 18 46.1
BUT EP	04 19 01.3
BOZ IP C	04 19 07.0
EsP	19 21.0
EUR IP	04 19 15.8
IpP	19 26.4
IsP	19 31.0
BCN EP	04 19 35.2
EsP	19 49.6
TUC EP	04 20 05.2
IsP	20 21.1
JUL 6	
H-04 09 00.8	
6.7 N 127.0 E	
h ABOUT 44KM	
COL EP	04 21 16.2
CSC EP	04 21 26.0
JUL 6	
H-04 34 22.4	
07.3N 127.0E	
h ABOUT 45KM	
COL EP	04 46 36.0
JUL 6	
EUR IP	04 45 25.0
JUL 6	
H-04 48 33.6	
04.0N 113.7E	
h ABOUT 65KM	
COL E(P)	05 01 27.5
BOZ EP'	05 07 13.0
EUR EP'	05 07 14.0
ALQ EP'	05 07 30.4
JUL 6	
H-04 58 55.6	
55.0N 162.0E	
h ABOUT 34KM	
BRW EP	05 04 09.4
COL IP	05 04 28.8
BOZ E(P)	05 07 13.0
HHM E(P)	05 07 44.7
BOZ IP	05 08 07.5
EUR IP	05 08 22.9
I	08 35.9
BCN EP	05 08 46.0
E	08 54.0
TUC EP	05 09 19.0
E	09 27.0
ALQ EP	05 09 21.2
JUL 6	
H-05 15 12.7	
7.3 N 126.8 E	
h ABOUT 84KM	
COL E(P)	05 27 21.2
EUR E(P)	05 15 42.7
JUL 6	
EUR E(P)	05 31 51.0
JUL 6	
EUR E(P)	05 47 28.0
JUL 6	
BOZ EP	05 50 42.0
JUL 6	
KIP E(P)	05 54 47.6
JUL 6	
H-06 12 41.4	
54.3N 160.1E	
h ABOUT 33KM	
COL E(P)	06 18 30.4
EUR EP	06 22 18.3
JUL 6	
BOZ EP	06 30 33.0
EUR EP	06 30 42.7
JUL 6	
HHM EP	06 35 16.6
JUL 6	
COL EP	06 39 22.0
JUL 6	
H-06 39 25.0	
44.5N 148.3E	
h ABOUT 56KM	
COL IP	06 46 55.4
HHM EP	06 49 46.8
BOZ IP	06 50 07.0
EUR EP	06 50 15.5
IpP	50 30.5
JUL 6	
BOZ IP	07 14 26.6
IL	14 35.0
HHM EP	07 15 00.4
EL	15 35.2
JUL 6	
BOZ IP	07 34 13.1
IS	34 24.5
JUL 6	
HHM EP	07 35 11.2
E	36 08.2

Date and Station	Phase (GCT)
	h m s
JUL 6	
H-07 43 24.5	
57.0N 161.0E	
h ABOUT 33KM	
COL EP	07 48 51.0
EUR IP	07 52 50.6
JUL 6	
EUR E(P)	08 03 03.8
JUL 6	
H-09 10 06.5	
33.4N 116.5W	
h ABOUT 3KM	
BCN E(P)	09 10 56.6
E	11 03.5
IL	11 40.0
EUR EP	09 11 40.1
EL	13 18.5
JUL 6	
EUR EP	12 05 04.0
JUL 6	
H-13 06 59.2	
7.4N 127.0E	
h ABOUT 33KM	
COL FP	13 19 14.5
EUR E(P)	12 40 08.0
JUL 6	
H-13 21 07.1	
36.6N 073.0E	
h ABOUT 163KM	
COL EP	13 32 24.0
JUL 6	
H-13 34 15.6	
34.8N 025.5E	
h ABOUT 59KM	
COL EP	13 46 23.5
HHM EP	13 47 10.6
JUL 6	
H-14 49 30.8	
59.6S 026.1W	
h ABOUT 59KM	
EUR EP'	15 08 21.5
HHM EP'	15 08 31.0
COL IP'	15 09 20.6
JUL 6	
EUR E(P)	15 18 14.3
JUL 6	
H-15 28 34.3	
52.8N 171.9E	
h ABOUT 54KM	
COL IP	15 33 41.2
HHM EP	15 36 49.0
BOZ IP	15 37 12.0
E	37 18.1
E	37 24.0
EUR IP	15 37 22.9
TUC E(P)	15 38 21.1
JUL 6	
COL EP	16 21 48.0
JUL 6	
H-16 25 59.7	
08.3S 107.6E	
h ABOUT 59KM	
HHM EP'	16 44 57.5
EUR EP'	16 45 05.5
JUL 6	
BOZ EP	17 13 03.0
E	14 35.0
EUR EP	17 13 16.5
JUL 6	
SJG IP	17 55 04.8
JUL 6	
H-18 36 47.4	
4.5S 155.1E	
h ABOUT 510KM	
GUA EP	18 40 51.6
E	40 57.5
ES	44 07.4
KIP IP	18 45 16.0
EpP	46 56.6
E(SCS)	54 19.5
ESS	55 44.0
HON IP	18 45 16.4
E(pP)	46 52.0
IS	52 04.3
COL IP	18 48 06.0
IpP	49 58.0
ISKS	57 29.5
EP'P'	19 14 27.2
SIT E(P)	18 48 18.7
E(pP)	50 10.0
E(S)	57 53.6
EUR EP C	18 49 02.8
IpP	50 57.2
IsP	51 50.8
EPP	52 45.5
EpPP	54 27.6
EPPP	54 56.5
ESKS	59 16.7
E(SP)	19 00 37.5
EPKKP	06 25.5
I	06 58.4
EP'P'	14 23.3
BCN IP D	18 49 06.5
EpP	51 00.0
EpPP	54 34.0
EP'P'	19 14 29.0
HHM IP	18 49 10.5
ISKS	58 56.5
ES	59 07.0
EPKKP	19 06 13.0
EP'P'	14 11.9
BUT EpP	18 51 09.5
EPP	53 05.0
ISKS	59 03.5
ES	59 39.5
E	19 02 43.5
BOZ IP D	18 49 18.4
IpP	51 13.0
IPP	53 17.0
EpPP	54 52.0
EPPP	56 33.5
ISKS	59 08.0
ES	59 57.0
EPKKP	19 06 09.0
EP'P'	14 08.0
TUC EP D	18 49 21.9
EpP	51 16.9
ALQ IP	18 49 37.2
EpP	51 31.5
IpPP	55 25.0
CSC EP'	18 54 41.0
E	57 30.0
SJG IP'	18 55 13.5
EpP'	57 17.0
EsP'	57 58.0
ISKP	58 00.5
E	58 32.5
IPKS	58 48.7
E(sPP)	19 00 50.0
JUL 6	
EUR EP	19 28 38.5
JUL 6	
HHM E(P)	20 26 17.7
JUL 6	
COL IP	21 33 28.0
JUL 6	
EUR EP	22 44 33.1
JUL 7	
TUC EP	01 36 27.2
JUL 7	
TUC E(P)	01 46 00.2
JUL 7	
EUR E(P)	02 29 22.3
JUL 7	
COL EP	02 42 29.0
JUL 7	
TUC EP	03 35 39.2
JUL 7	
COL EP	03 43 39.0
JUL 7	
EUR EP	04 24 28.9
JUL 7	
H-04 51 14.3	
38.6N 074.8E	
h ABOUT 93KM	
COL EP	05 02 32.6
JUL 7	
BOZ E(P)	05 59 21.5
JUL 7	
COL IP	06 05 50.5
JUL 7	
H-07 55 47.4	
02.7N 083.5W	
h ABOUT 49KM	
ALQ E(P)	08 03 06.0
BOZ EP	08 04 35.0
HHM EP	08 05 01.0
JUL 7	
TUC EP	07 58 36.0
EUR E(P)	07 58 37.4
JUL 7	
EUR EP	08 50 33.6
JUL 7	
BOZ EP	11 01 39.0
HHM EP	11 02 09.6
JUL 7	
H-12 08 34.0	
49.8S 116.9E	
h ABOUT 25KM	
COL EP'	12 27 49.0
E(PP)	30 35.4
TUC EP'	12 27 56.6
BCN EP'	12 27 57.7
EUR IP'	12 28 03.8
ALQ IP'	12 28 07.8
SLC IP'	12 28 08.9
BOZ EP'	12 28 13.5
I	28 24.0
E(PP)	31 21.0
HHM IP'	12 28 14.9
IP'	28 22.0
CSC EP'	12 28 30.0
EP'	28 38.0
E	29 07.0
JUL 7	
H-14 22 13.6	
52.4N 173.4E	
h ABOUT 50KM	
COL IP	14 27 17.9

Date and Station	Phase	Phase (GCT) h m s
HHM	EP	14 30 23.5
	EPCP	32 06.2
BOZ	IP	14 30 45.6
	I	30 54.0
EUR	IP	14 30 56.1
ALQ	E(P)	14 32 01.0
TUC	E(P)	14 32 02.7
JUL 7		
H-14 55 03.6		
29.5S 070.0W		
h ABOUT 80KM		
EUR	E(P)	15 07 11.0
JUL 7		
KIP	E(P)	15 09 18.2
JUL 7		
H-15 37 21.6		
15.1S 173.0W		
h ABOUT 33KM		
KIP	E(P)	15 44 45.4
HON	EL	15 53 28.0
EUR	EP	15 49 06.8
TUC	EP	15 49 07.2
ALQ	E(P)	15 49 31.6
BUT	EP	15 49 36.5
COL	IP	15 49 37.6
BOZ	EP	15 49 38.5
JUL 7		
EUR	EP	16 27 18.3
JUL 7		
COL	EP	16 45 56.0
JUL 7		
H-17 15 53.9		
51.5N 175.0E		
h ABOUT 28KM		
COL	IP	17 21 01.8
HHM	E(P)	17 24 04.8
BOZ	EP	17 24 24.5
	E	24 40.0
EUR	IP	17 24 34.0
	I▸P	24 44.3
BCN	EP	17 24 59.0
TUC	EP	17 25 33.0
	E▸P	25 43.0
ALQ	EP	17 25 38.5
JUL 7		
BOZ	EP	17 28 02.0
	E	31 07.0
JUL 7		
EUR	E(P)	17 34 26.7
JUL 7		
ALQ	EP	17 38 17.0
JUL 7		
COL	EP	17 57 53.0
JUL 7		
H-18 30 01.2		
64.5N 163.8W		
h ABOUT 33KM		
COL	IP	18 31 41.8
EUR	EP	18 37 12.5
JUL 7		
EUR	IP	19 03 29.8
JUL 7		
H-20 09 09.9		
18.6N 106.6W		
h ABOUT 33KM		
TUC	EP	20 12 31.0
ALQ	EP	20 13 01.5
EUR	IP	20 14 08.2
JUL 7		
EUR	IP	20 11 45.7
ALQ	E(P)	20 12 41.6
JUL 7		
TUC	E(P)	20 40 30.8
JUL 7		
HHM	EP	21 02 59.7
JUL 7		
ALQ	EP	21 38 42.5
JUL 7		
H-21 38 51.5		
32.7N 138.8E		
h ABOUT 226KM		
GUA	IP	21 43 06.0
	IS	46 45.0
BRW	IP	21 47 32.9
	I▸P	48 23.0
	EPCP	48 43.4
COL	IP	21 47 52.0
HON	EP	21 48 14.1
KIP	IP	21 48 14.3
SIT	E(P)	21 48 44.0
HHM	IP	21 50 18.7
BOZ	IP C	21 50 34.0
EUR	IP	21 50 39.1
	I▸P	51 30.9
	IPP	53 43.5
SLC	IP	21 50 49.0
BCN	EP	21 50 52.5
	EPP	54 02.0
GCA	IP	21 51 00.8
TUC	EP	21 51 16.6
	E(PP)	54 44.8
ALQ	EP	21 51 23.2
SJG	EP'	21 57 24.0
	I	57 28.0
JUL 7		
SLC	EP	22 01 10.0
ALQ	E(P)	22 01 52.5
EUR	IP	22 02 01.2
JUL 7		
BUT	IP	22 05 30.0
JUL 7		
TUC	E(P)	22 16 55.8
JUL 7		
H-23 00 06.4		
07.0S 105.6E		
h ABOUT 105KM		
HHM	EP'	23 19 01.2
BOZ	EP'	23 19 07.0
	EPP	21 24.8
EUR	IP'	23 19 08.1
	EPP	21 12.4
	ISKP	22 27.8
	ESKKP	32 07.4
ALQ	EP'	23 19 17.0
	I	19 25.5
	E(SKP)	22 56.0
CSC	EP'	23 19 46.0
	E	19 52.0
	E(▸PP)	24 08.0
JUL 7		
H-23 02 29.0		
14.2S 172.7W		
h ABOUT 32KM		
HON	EL	23 18 40.0
EUR	EP	23 14 09.7
TUC	E(P)	23 14 10.0
ALQ	E(P)	23 14 35.0
COL	IP	23 14 41.3
BOZ	EP	23 14 44.0
	E	14 51.0
HHM	E(P)	23 14 49.5
JUL 7		
HHM	E(P)	23 17 29.5
	EL	18 06.2
JUL 7		
H-23 25 15.8		
13.6S 171.3W		
h ABOUT 33KM		
COL	EP	23 37 24.0
JUL 7		
H-23 35 27.2		
51.3N 177.2E		
h ABOUT 39KM		
COL	EP	23 40 23.0
BRW	IP	23 40 31.9
HHM	E(P)	23 43 25.1
	E	43 32.2
EUR	IP	23 43 54.1
	E▸P	44 06.0
ALQ	EP	23 44 59.0
JUL 8		
EUR	EP	00 09 50.5
JUL 8		
H-00 13 54.7		
71.7N 001.8W		
h ABOUT 33KM		
COL	IP	00 21 44.0
EUR	EP	00 24 00.0
ALQ	EP	00 24 10.0
	E	24 15.0
JUL 8		
HHM	E(P)	02 35 10.8
JUL 8		
KIP	E(P)	03 07 42.0
JUL 8		
H-03 58 50.4		
06.9S 105.5E		
h ABOUT 83KM		
HHM	EP'	04 17 46.8
BOZ	IP'	04 17 54.0
EUR	IP'	04 17 55.5
	E(SKP)	21 14.5
ALQ	EP'	04 18 03.1
	E	18 12.0
	E(SKP)	21 43.0
CSC	EP'C	04 18 32.0
	E	18 39.0
JUL 8		
H-07 20 40.3		
15.9N 096.2W		
h ABOUT 45KM		
TUC	EP	07 25 21.6
COL	E(P)	07 30 43.0

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	h m s
JUL 8	
COL EP	07 55 51.0
JUL 8	
EUR E(P)	08 09 02.7
ALQ E(P)	08 09 46.0
JUL 8	
COL EP	09 11 12.0
JUL 8	
TUC E(P)	09 37 06.5
JUL 8	
H-11 44 47.9	
19.5S 068.6W	
h ABOUT 219KM	
ALQ E(P)	11 55 07.0
JUL 8	
TUC EP	12 32 03.8
BCN E(P)	12 32 17.5
EL	33 54.7
ALQ E(P)	12 33 08.0
E	33 34.0
JUL 8	
H-13 04 03.0	
15.8S 179.2W	
h ABOUT 16KM	
HON EL	13 23 32.0
BCN EP	13 16 11.5
EUR IP	13 16 16.8
E(PP)	19 16.5
TUC E(P)	13 16 20.0
COL IP	13 16 32.2
ALQ EP	13 16 40.0
E	16 48.0
BOZ EP	13 16 45.5
JUL 8	
TUC E(P)	13 06 47.0
JUL 8	
TUC E(P)	13 17 51.0
JUL 8	
TUC E(P)	13 25 05.0
EUR EP	13 25 38.1
JUL 8	
TUC E(P)	13 58 33.3
JUL 8	
H-14 05 20.5	
18.7N 145.1E	
h ABOUT 223KM	
GUA E(P)	14 06 38.5
E(S)	07 36.2
COL EP	14 15 29.0

Date and Station	Phase (GCT)
	h m s
EUR IP	14 17 32.2
BOZ EP	14 17 36.5
JUL 8	
TUC E(P)	14 32 17.3
JUL 8	
TUC E(P)	15 41 13.8
JUL 8	
COL E(P)	15 48 27.2
JUL 8	
EUR IP	15 49 22.0
JUL 8	
H-16 07 19.8	
16.2S 174.7W	
h ABOUT 57KM	
COL EP	16 19 40.0
BOZ EP	16 19 44.5
EUR EP	16 19 15.3
JUL 8	
HON EL	16 25 30.0
JUL 8	
TUC E(P)	17 41 03.5
E	41 41.0
JUL 8	
HHM E(P)	18 18 05.1
JUL 8	
BHP IP	19 13 45.5
IS	14 06.5
JUL 8	
EUR IP	19 53 49.1
IL	54 15.8
JUL 8	
BCN IP	21 07 43.0
IS	07 50.0
JUL 8	
HHM E(P)	21 46 24.7
JUL 8	
COL EP	22 39 29.0
JUL 8	
COL IP	22 57 28.2
JUL 8	
TUC EP	22 58 38.3
E	58 49.5
E(L)	59 43.0
ALQ EP	22 59 42.0
JUL 8	
H-23 13 48.6	
29.7N 113.9W	
h ABOUT 33KM	
TUC EP	23 14 45.5
BCN EP	23 15 21.0
EL	17 08.0

Date and Station	Phase (GCT)
	h m s
GCA EP	23 15 38.5
ALQ IP	23 15 48.2
E(S)	16 27.0
IL	18 07.4
EUR IP	23 16 12.2
E(S)	18 05.0
IL	19 18.2
BOZ EP	23 17 37.5
HHM E(P)	23 18 14.0
JUL 8	
TUC EP	23 49 12.5
E	49 23.6
E(L)	50 17.0
JUL 8	
H-23 51 19.9	
09.7S 079.7W	
h ABOUT 33KM	
EUR IP	24 01 21.8
JUL 8	
EUR EP	23 50 43.0
IL	53 45.1
JUL 8	
TUC E(P)	23 55 03.2
JUL 9	
H-00 41 24.1	
29.6N 113.9W	
h ABOUT 33KM	
TUC E(P)	00 42 22.1
E	42 33.5
ALQ IP	00 43 25.6
EL	45 49.0
EUR EP	00 43 48.9
EL	46 55.6
JUL 9	
H-00 41 49.0	
07.6N 147.2E	
h ABOUT 5KM	
GUA E(P)	00 43 26.0
E(S)	44 41.0
COL EP	00 53 19.0
HHM E(P)	00 54 52.1
EUR E(P)	00 54 54.0
JUL 9	
TUC E(P)	01 04 49.5
JUL 9	
TUC E(P)	01 17 25.8
ALQ IP	01 18 30.0
EUR EL	01 22 00.4

Date and Station	Phase (GCT)
	h m s
JUL 9	
H-01 26 54.6	
30.6N 113.5W	
h ABOUT 33KM	
TUC E(P)	01 27 38.4
ALQ IP	01 28 41.4
EL	31 02.0
EUR EP	01 29 05.2
EL	32 12.0
JUL 9	
HON EP	01 34 38.5
E	34 43.0
KIP EP	01 34 39.5
I	34 45.5
JUL 9	
TUC EP	03 39 44.4
E	39 55.0
ALQ E(P)	03 40 46.5
EUR EL	03 44 08.5
JUL 9	
COL EP	03 59 52.0
EUR EP	04 03 25.5
JUL 9	
H-04 17 04.8	
18.6S 168.1E	
h ABOUT 33KM	
EUR EP	04 30 06.9
JUL 9	
TUC E(P)	04 40 05.0
JUL 9	
TUC E(P)	04 52 14.0
JUL 9	
H-05 04 01.0	
29.0N 114.0W	
h ABOUT 33KM	
TUC EP	05 05 06.0
E	05 16.2
E(L)	06 06.0
BCN E(P)	05 05 55.0
EL	07 43.5
ALQ IP	05 06 08.6
EL	08 30.6
EUR EP	05 06 32.5
EL	09 31.0
JUL 9	
HHM EP	05 35 18.2
E	35 20.7
JUL 9	
SIT E(P)	06 04 27.5
E(L)	04 54.0
JUL 9	
COL EP	06 07 54.0

Date and Station	Phase	(GCT) h m s
JUL 9		
UKI	E(P)	07 53 24.0
JUL 9		
COL	EP	08 03 35.0
	I	24 04.9
BOZ	EP	08 06 45.0
JUL 9		
COL	IP	08 24 04.9
JUL 9		
COL	EP	09 06 14.0
JUL 9		
HHM	EP	09 31 40.6
BOZ	EP	09 31 48.0
JUL 9		
HHM	EP	11 59 23.8
JUL 9		
H-12 19 05.7		
45.2N 111.6W		
h ABOUT 33KM		
BOZ	IP	12 19 16.5
BZM	IP	12 19 18.4
	IL	20 07.0
BUT	IP	12 19 28.5
	IS	19 45.0
HHM	EP	12 20 00.0
	I	20 14.9
	EL	21 05.5
EUR	EP	12 20 44.0
JUL 9		
BUT	EP	12 31 14.0
	IL	31 33.0
JUL 9		
H-12 46 27.3		
51.2N 177.6E		
h ABOUT 33KM		
COL	E(P)	12 51 30.0
EUR	IP	12 54 54.5
	EpP	55 04.5
JUL 9		
EUR	EP	13 57 00.0
JUL 9		
BOZ	IP	14 26 41.2
	IL	26 49.0
BUT	IP	14 26 58.5
HHM	E(P)	14 27 40.7
	ES	28 28.1
JUL 9		
H-15 21 53.5		
16.0S 174.3W		
h ABOUT 129KM		
COL	EP	15 34 06.0
JUL 9		
EUR	EP	15 31 05.9
JUL 9		
H-15 38 23.5		
21.0S 178.1W		
h ABOUT 559KM		
COL	EP	15 50 17.5
JUL 9		
COL	E(P)	16 22 07.0
JUL 9		
H-16 38 09.5		
53.0N 035.6W		
h ABOUT 33KM		
BOZ	EP	16 46 47.0
COL	EP	16 47 12.0
EUR	EP	16 47 35.5
TUC	EP	16 47 49.1
	E	47 56.7
JUL 9		
BOZ	IP	16 39 04.5
	IL	39 25.5
HHM	E(P)	16 39 11.0
	ES	39 27.5
JUL 9		
H-17 05 32.5		
15.4S 175.6W		
h ABOUT 33KM		
TUC	EP	17 17 30.5
COL	EP	17 17 54.0
BOZ	EP	17 18 02.0
JUL 9		
H-17 32 24.7		
19.4N 66.5W		
h ABOUT 33KM		
SJG	IP C	17 32 44.8
	IL	33 13.0
CSC	E(P)	17 36 51.0
TUC	E(P)	17 40 05.8
BOZ	EP	17 40 42.0
	E	41 07.0
EUR	EP	17 40 55.2
COL	EP	17 43 25.0
JUL 9		
EUR	IP	18 45 01.5
	IL	45 37.8
JUL 9		
HHM	EP	18 47 53.3
	EL	48 10.0
JUL 9		
COL	EP	18 59 47.7
JUL 9		
HHM	E(P)	20 28 05.8
JUL 9		
H-21 01 16.5		
45.0N 111.5W		
h ABOUT 33KM		
BOZ	IP	21 01 28.0
BUT	EP	21 01 38.9
	IS	01 56.9
HHM	E(P)	21 02 24.8
	EL	03 20.9
JUL 9		
TUC	E(P)	22 11 47.0
JUL 9		
EUR	IP	22 34 45.0
	IL	34 50.9
JUL 9		
HHM	EP	23 05 13.4
JUL 9		
HHM	EP	23 21 49.9
JUL 9		
COL	EP	23 26 34.0
JUL 10		
COL	IP	00 25 26.0
JUL 10		
H-00 32 27.1		
30.0S 178.7W		
h ABOUT 33KM		
TUC	E(P)	00 45 23.2
JUL 10		
H-01 16 54.0		
30.1S 178.9W		
h ABOUT 33KM		
TUC	E(P)	01 29 49.2
JUL 10		
KIP	IP	01 25 13.8
JUL 10		
H-02 05 42.2		
55.3N 162.5E		
h ABOUT 39KM		
COL	EP	02 11 11.0
BOZ	EP	02 14 50.0
EUR	IP	02 15 06.5
JUL 10		
H-02 07 43.0		
30.0S 178.7W		
h ABOUT 11KM		
TUC	E(P)	02 20 41.7
EUR	EP	02 20 47.3
JUL 10		
H-02 25 50.2		
55.3N 162.6E		
h ABOUT 33KM		
COL	IP	02 31 19.8
EUR	IP	02 35 14.8
JUL 10		
H-02 36 08.8		
49.9N 178.4E		
h ABOUT 33KM		
BOZ	EP	02 44 28.0
EUR	IP	02 44 34.5
JUL 10		
H-03 20 00.7		
55.6N 162.0E		
h ABOUT 33KM		
COL	EP	03 25 31.0
EUR	EP	03 29 26.5
JUL 10		
H-03 25 48.4		
30.0S 178.9W		
h ABOUT 66KM		
TUC	E(P)	03 38 38.5
EUR	IP	03 38 45.5
JUL 10		
H-03 37 28.8		
55.4N 162.4E		
h ABOUT 33KM		
COL	IP	03 42 59.2
BOZ	EP	03 46 40.0
EUR	IP	03 46 53.8
JUL 10		
H-03 39 40.1		
55.3N 162.4E		
h ABOUT 33KM		
COL	IP	03 45 10.5
EUR	IP	03 49 05.0
JUL 10		
H-04 01 14.7		
55.4N 162.6E		
h ABOUT 33KM		
COL	EP	04 06 43.0
EUR	EP	04 10 38.3
JUL 10		
H-04 26 42.9		
55.3N 162.5E		
h ABOUT 45KM		
COL	EP	04 32 11.0
EUR	IP	04 36 07.0
	EpP	36 18.8

Date and Station	Phase (GCT)
	h m s
SLC EP	04 36 16.0
TUC EP	04 37 03.0
ALQ IP	04 37 05.0
E	37 19.2
JUL 10	
H-04 35 47.6	
55.3N 162.4E	
h ABOUT 33KM	
COL EP	04 41 18.0
BOZ EP	04 44 58.0
EUR IP	04 45 13.0
EpP	45 24.9
JUL 10	
COL IP	04 43 11.4
JUL 10	
H-04 54 20.6	
55.5N 162.2E	
h ABOUT 35KM	
COL EP	04 59 51.0
EUR EP	05 03 45.7
JUL 10	
H-04 57 21.7	
55.3N 162.4E	
h ABOUT 33KM	
COL EP	05 02 52.0
EUR EP	05 06 46.7
JUL 10	
H-05 10 48.4	
30.1S 178.8W	
h ABOUT 73KM	
TUC E(P)	05 23 40.0
EUR EP	05 23 46.4
JUL 10	
H-06 52 12.6	
45.1N 111.5W	
h ABOUT 33KM	
BOZ IP	06 52 23.2
I(S)	52 32.0
BZM EP	06 52 24.9
ES	52 34.3
BUT EP	06 52 32.9
IS	52 51.9
HHM E	06 53 20.3
EL	54 10.2
EUR E(P)	06 53 52.0
JUL 10	
BUT EP	07 03 38.9
IL	03 56.9
JUL 10	
COL EP	07 06 49.2

Date and Station	Phase (GCT)
	h m s
JUL 10	
H-07 18 17.0	
45.1N 111.4W	
h ABOUT 33KM	
BOZ IP	07 18 27.8
BZM EP	07 18 29.2
IS	18 37.2
EL	18 41.5
BUT IP	07 18 39.0
ES	18 56.0
HHM EP	07 19 15.1
I	19 25.1
EL	20 16.1
SLC E(P)	07 19 28.3
EL	20 31.1
EUR E(P)	07 19 56.3
JUL 10	
BCN E(P)	07 40 40.1
E	41 25.0
EL	42 46.0
TUC E(P)	07 40 40.5
E	40 56.8
ES	41 34.0
ALQ EP	07 41 50.0
EUR E(P)	07 42 04.5
EL	43 33.5
JUL 10	
H-07 55 22.5	
30.0S 178.9W	
h ABOUT 77KM	
TUC E(P)	08 08 11.5
EUR EP	08 08 19.0
JUL 10	
H-08 09 46.4	
34.7N 023.3E	
h ABOUT 9KM	
BOZ EP	08 22 49.9
JUL 10	
TUC E(P)	08 24 44.4
JUL 10	
H-08 50 07.6	
11.5S 165.9E	
h ABOUT 103KM	
COL EP	09 02 23.0
EUR EP	09 02 49.7
JUL 10	
H-09 33 31.2	
17.5S 178.7W	
h ABOUT 599KM	
EUR IP	09 44 48.2
TUC EP	09 44 49.8

Date and Station	Phase (GCT)
	h m s
COL EP	09 45 07.0
JUL 10	
TUC E(P)	09 41 46.0
JUL 10	
H-09 43 29.3	
24.3S 179.8W	
h ABOUT 498KM	
TUC E(P)	09 55 21.4
EUR EP	09 55 22.1
JUL 10	
COL EP	10 34 56.0
JUL 10	
TUC E(P)	10 59 57.2
JUL 10	
H-11 20 01.2	
55.3N 162.6E	
h ABOUT 33KM	
COL EP	11 25 30.0
BOZ E(P)	11 29 15.0
EUR IP	11 29 25.0
E	29 37.8
JUL 10	
TUC E(P)	11 31 41.0
JUL 10	
COL EP	11 50 24.5
JUL 10	
TUC E(P)	11 58 20.2
JUL 10	
TUC E(P)	12 23 14.6
JUL 10	
H-12 52 24.6	
45.5N 151.5E	
h ABOUT 45KM	
COL EP	12 59 38.0
IpP	59 49.5
HHM E(P)	13 02 32.4
E(pP)	02 44.4
BOZ IP	13 02 52.3
IpP	03 05.0
EUR IP	13 03 01.0
IpP	03 14.2
JUL 10	
COL EP	13 02 35.0
JUL 10	
BOZ EP	13 20 16.0
E	20 37.6
JUL 10	
COL EP	13 50 28.0
EUR IP	13 54 37.2

Date and Station	Phase (GCT)
	h m s
JUL 10	
H-14 07 53.1	
30.3S 178.9W	
h ABOUT 72KM	
TUC E(P)	14 20 44.7
EUR EP	14 20 52.9
JUL 10	
COL EP	14 40 51.0
JUL 10	
TUC EP	14 41 20.5
E	41 27.2
E	41 31.2
E(L)	42 25.2
BCN E(P)	14 41 48.0
E	42 31.5
EL	43 37.5
ALQ IP	14 42 23.6
EUR IP	14 42 51.0
EL	45 58.4
JUL 10	
H-14 54 45.8	
55.4N 162.3E	
h ABOUT 34KM	
COL IP	15 00 15.7
BOZ E(P)	15 03 53.0
EUR IP	15 04 10.6
JUL 10	
COL EP	15 17 21.0
JUL 10	
TUC E(P)	15 45 15.7
JUL 10	
H-16 48 41.6	
30.3S 178.6W	
h ABOUT 47KM	
TUC E(P)	17 01 34.5
EUR EP	17 01 41.0
JUL 10	
TUC E(P)	18 40 50.1
E	41 00.6
E(L)	41 37.0
BCN E(P)	18 41 00.0
E	41 27.0
E	42 30.0
EUR EP	18 42 00.0
IL	44 53.0
JUL 10	
H-19 22 18.8	
41.6N 140.4E	
h ABOUT 129KM	
BRW IP	19 30 02.7
I	30 05.9

Date and Station	Phase (GCT)
	h m s
COL IP	19 30 28.8
I	31 15.5
HHM IP	19 33 12.0
BUT EP	19 33 25.0
BOZ IP C	19 33 31.0
I▸P	34 07.0
EUR IP	19 33 39.8
E▸P	34 15.9
BCN IP C	19 33 57.0
TUC EP	19 34 23.6
ALQ IP	19 34 27.4
JUL 10	
TUC E(P)	20 48 53.7
E(S)	50 21.5
JUL 10	
HHM EP	21 06 01.7
JUL 10	
COL IP	21 30 04.0
I	30 31.1
EUR IP	21 30 39.2
E	31 03.4
JUL 10	
COL EP	22 31 17.0
JUL 10	
COL EP	23 49 00.0
JUL 11	
KIP EP	00 24 33.0
HON IP	00 24 33.0
JUL 11	
TUC E(P)	00 31 10.2
JUL 11	
H-01 52 58.3	
5.9S 147.3E	
h ABOUT 77KM	
COL EP	02 05 24.0
SJG EP	02 12 27.8
JUL 11	
H-01 53 06.0	
11.0N 061.6W	
h ABOUT 68KM	
SJG EP	01 55 08.0
IS	56 39.5
ALQ IP	02 01 33.8
TUC E(P)	02 01 55.3
BOZ EP	02 02 31.0
EUR IP	02 02 38.0
BUT E(P)	02 02 43.0

Date and Station	Phase (GCT)
	h m s
JUL 11	
EUR EP	02 43 03.8
JUL 11	
HHM EP	03 23 29.3
EL	23 48.1
BOZ EP	03 23 52.0
JUL 11	
COL E(P)	04 58 29.0
JUL 11	
H-05 21 44.7	
15.1S 173.7W	
h ABOUT 52KM	
EUR IP	05 33 30.8
TUC EP	05 33 30.9
ALQ IP	05 33 54.6
COL IP	05 34 02.0
BOZ EP	05 34 03.0
JUL 11	
H-06 12 07.1	
56.6N 152.2W	
h ABOUT 33KM	
COL EP	06 14 10.0
EUR EP	06 18 07.5
JUL 11	
COL EP	06 26 32.0
JUL 11	
KIP E(P)	06 55 53.8
JUL 11	
H-07 12 58.5	
58.0N 151.4W	
h ABOUT 7KM	
COL IP	07 14 44.7
HHM EP	07 18 16.1
BOZ EP	07 18 44.0
EUR IP	07 19 04.1
I	19 16.6
BCN EP	07 19 34.2
E▸P	19 40.5
E▸P	19 44.5
TUC E(P)	07 20 15.0
E	20 24.3
ALQ EP	07 20 15.6
JUL 11	
H-07 59 10.0	
51.5N 175.6E	
h ABOUT 52KM	
COL EP	08 04 11.0
EUR IP	08 07 44.0

Date and Station	Phase (GCT)
	h m s
JUL 11	
KIP E(P)	08 44 37.9
JUL 11	
SJG EP	09 40 23.7
IL	40 53.4
JUL 11	
H-09 52 19.3	
62.3N 025.7W	
h ABOUT 33KM	
COL EP	10 00 42.1
BOZ EP	10 01 06.8
JUL 11	
BUT EP	15 23 15.0
IL	23 32.0
JUL 11	
H-16 15 21.2	
36.4N 139.7E	
h ABOUT 81KM	
BRW EP	16 23 53.6
E	24 10.6
COL EP	16 24 12.0
BOZ EP	16 27 02.5
EUR IP	16 27 09.0
TUC E(P)	16 27 49.0
ALQ EP	16 27 54.6
JUL 11	
H-19 09 31.8	
13.3N 144.7E	
h ABOUT 57KM	
GUA IP	19 09 43.0
I(S)	09 49.0
HHM E(P)	19 22 14.9
EUR IP	19 22 21.9
BOZ EP	19 22 26.0
JUL 11	
H-19 28 33.9	
40.4N 116.1W	
h ABOUT 33KM	
EUR IP	19 28 51.2
SLC E(P)	19 29 29.7
BCN E(P)	19 29 40.8
I	29 57.0
E(S)	30 39.0
IL	30 57.5
BOZ EP	19 30 04.0
E	30 10.0
BUT E(P)	19 30 08.0
E	30 23.0
EL	31 43.0

Date and Station	Phase (GCT)
	h m s
JUL 11	
H-20 12 42.8	
19.1S 175.6W	
h ABOUT 257KM	
TUC EP	20 24 27.6
E(▸P)	25 24.0
EUR IP	20 24 28.2
E▸P	25 26.6
ALQ IP	20 24 49.8
E▸P	25 47.6
COL IP	20 24 55.4
E▸P	25 55.3
BOZ IP D	20 24 59.3
I▸P	25 59.5
BUT E(P)	20 25 03.0
E▸P	26 03.0
JUL 11	
H-22 54 44.3	
16.6S 173.0W	
h ABOUT 33KM	
BOZ EP	23 07 09.4
COL EP	23 07 11.0
JUL 11	
TUC EP	23 03 14.5
JUL 11	
TUC E(P)	23 53 20.7
E	53 30.7
EL	54 13.0
BCN EP	23 54 06.0
E	55 24.5
EUR EP	23 54 10.0
EL	57 15.5
JUL 12	
COL E(P)	01 11 16.5
JUL 12	
H-03 21 27.6	
19.0S 175.2W	
h ABOUT 226KM	
COL EP	03 33 42.0
JUL 12	
BUT EP	05 32 05.0
IL	32 25.0
HHM E(P)	05 32 39.8
JUL 12	
H-05 34 11.0	
16.6S 172.8W	
h ABOUT 62KM	
BCN EP	05 45 52.5
TUC E(P)	05 45 56.7
EUR IP	05 45 58.8
IPCP	46 19.0

Date and Station	Phase (GCT) h m s
ALQ IP	05 46 21.4
HHM EP	05 46 29.8
COL EP	05 46 31.0
BOZ EP	05 46 31.0
BUT E(P)	05 46 34.5
JUL 12	
H-06 43 13.0	
54.1N 164.2W	
h ABOUT 33KM	
COL EP	06 46 25.0
EUR IP	06 50 07.0
JUL 12	
SJG IP	08 03 07.0
IS	03 18.0
JUL 12	
TUC EP	09 56 30.7
EUR EP	09 56 52.2
JUL 12	
H-11 21 40.9	
40.6N 141.8E	
h ABOUT 60KM	
COL E(P)	11 30 00.2
BOZ EP	11 33 01.0
EUR EP	11 33 08.8
E▸P	33 24.4
JUL 12	
H-11 39 15.7	
6.8S 105.7E	
h ABOUT 80KM	
EUR EP'	11 58 15.2
JUL 12	
H-13 52 38.5	
36.4N 070.7E	
h ABOUT 212KM	
COL IP C	14 03 55.8
JUL 12	
H-13 57 14.8	
28.4S 068.3W	
h ABOUT 118KM	
ALQ IP	14 08 31.5
E▸P	09 01.6
TUC IP	14 08 31.5
E▸P	09 02.0
BCN EP-D	14 09 00.5
E▸P	09 30.0
SLC IP	14 09 12.1
FUR IP D	14 09 17.8
I▸P	09 46.7
EPKKP	27 55.3

Date and Station	Phase (GCT) h m s
BOZ IP	14 09 31.0
EPKKP	27 47.5
BUT I(P)	14 09 41.5
I▸P	10 11.0
HHM IP	14 09 46.6
I▸P	10 16.6
COL EP'	14 15 34.0
JUL 12	
COL EP	14 07 17.0
JUL 12	
BOZ EP	14 31 44.0
JUL 12	
EUR EP	15 07 06.5
JUL 12	
H-18 39 46.7	
4.6S 103.2E	
h ABOUT 80KM	
BOZ EP'	18 58 48.5
EUR EP'	18 58 51.5
JUL 12	
H-18 50 55.9	
33.9N 132.2E	
h ABOUT 45KM	
COL EP	19 00 29.0
EUR IP	19 03 22.0
JUL 12	
EUR IP	19 46 04.2
EL	46 31.5
JUL 12	
ALQ IP	21 12 09.5
JUL 12	
H-21 29 55.1	
51.8N 176.7E	
h ABOUT 63KM	
COL EP	21 34 49.0
EUR EP	21 38 21.7
JUL 12	
COL EP	22 32 54.0
JUL 13	
H-00 36 31.5	
15.3N 092.0W	
h ABOUT 123KM	
CSC EP	00 41 10.5
E	41 16.0
E(▸P)	41 33.0
EL	45 05.0
ALQ IP	00 41 32.3
TUC EP	00 41 37.3
E	41 57.8
SJG EP	00 41 46.7

Date and Station	Phase (GCT) h m s
BCN EP	00 42 22.5
E(▸P)	42 45.0
E	42 54.0
EUR IP	00 42 48.6
E(▸P)	43 15.3
EPCP	45 36.0
EL	49 11.0
COL IP	00 46 39.8
I▸P	47 19.4
JUL 13	
KIP EP	01 29 03.7
JUL 13	
HON EP	01 42 48.5
KIP EP	01 42 50.0
JUL 13	
H-06 23 49.9	
20.2S 174.1W	
h ABOUT 63KM	
TUC E(P)	06 35 53.5
EUR E(P)	06 35 59.0
ALQ IP	06 36 17.7
COL EP	06 36 30.0
JUL 13	
WSC E(P)	09 31 00.0
JUL 13	
H-10 03 56.7	
06.8S 106.7E	
h ABOUT 147KM	
EUR IP'	10 22 51.5
ALQ IP'	10 23 01.4
JUL 13	
EUR IP	10 26 01.3
BCN EP	10 26 11.5
ALQ IP	10 26 31.4
JUL 13	
BCN IP C	12 25 25.5
IS	25 27.5
EUR E(P)	12 26 31.5
EL	27 16.5
JUL 13	
BCN IP C	12 59 04.4
IS	59 06.2
EUR E(P)	13 00 01.0
EL	00 55.0
JUL 13	
H-14 09 20.9	
51.5N 178.3W	
h ABOUT 55KM	
COL EP	14 13 57.0
KIP EP	14 16 01.0

Date and Station	Phase (GCT) h m s
BUT E(P)	14 17 12.5
BOZ IP C	14 17 18.5
I	17 28.0
EUR IP	14 17 26.0
I	17 35.5
SLC E(P)	14 17 31.6
BCN EP	14 17 48.5
E	17 58.5
TUC EP	14 18 25.4
E	18 35.6
ALQ IP	14 18 32.4
JUL 13	
H-14 18 25.5	
11.4N 139.8E	
h ABOUT 33KM	
GUA E(P)	14 19 49.5
COL EP	14 29 47.7
EUR IP	14 31 39.2
JUL 13	
H-14 18 58.7	
37.5N 27.9E	
h ABOUT 21KM	
COL EP	14 30 53.8
JUL 13	
H-14 41 11.3	
00.9S 121.5E	
h ABOUT 129KM	
COL EP	14 54 03.0
BOZ EP'	14 59 41.5
EPP	15 00 42.0
EUR EP'	14 59 42.6
EPP	15 00 43.0
ALQ IP'	15 00 00.2
JUL 13	
COL EP	16 08 02.0
JUL 13	
GCA EP	18 03 39.7
IS	03 57.7
EUR IP	18 04 04.1
IL	04 43.0
JUL 13	
ALQ IP	18 04 55.4
TUC E(P)	18 05 02.7
JUL 13	
H-19 37 11.7	
04.3S 143.3E	
h ABOUT 102KM	
COL EP	19 49 35.0
EUR EP	19 50 51.5

Date and Station	Phase	(GCT)
		h m s
SJG	IP'	19 56 46.5
	IpP'	57 15.0
JUL 13		
H-19 45 25.6		
21.2S 176.2W		
h ABOUT 202KM		
EUR	IP	19 57 27.2
	E(pP)	58 15.0
COL	IP	19 57 54.8
	IpP	58 44.9
BOZ	IP	19 57 57.2
	I	58 10.5
	IpP	58 48.0
JUL 13		
COL	EP	19 46 37.0
JUL 13		
KIP	IP	20 26 02.9
JUL 13		
EUR	IP	20 42 07.2
JUL 13		
KIP	IP	21 26 04.8
JUL 13		
H-21 43 20.0		
6.0N 033.2W		
h ABOUT 33KM		
TUC	E(P)	21 55 06.8
JUL 13		
H-21 57 08.9		
40.3N 124.8W		
h ABOUT 23KM		
UKI	E(P)	21 57 38.0
EUR	IP	21 58 50.8
	I	59 00.1
	IL	22 01 13.4
BOZ	EP	21 59 47.7
BUT	EP	21 59 48.6
TUC	E(P)	22 00 27.8
JUL 13		
H-22 49 46.1		
2.9S 078.8W		
h ABOUT 112KM		
ALQ	IP	22 57 58.4
FUR	E(P)	22 58 02.5
BOZ	IP	22 59 17.5
	EpP	59 43.5
	E(sP)	59 53.0
JUL 13		
FUR	IP	22 52 20.1
JUL 13		
H-23 09 53.0		
36.5N 070.7E		
h ABOUT 200KM		

Date and Station	Phase	(GCT)
		h m s
COL	EP	23 21 11.0
JUL 14		
TUC	EP	00 13 37.0
JUL 14		
H-00 41 15.6		
50.8N 157.3E		
h ABOUT 50KM		
COL	EP	00 47 32.0
EUR	IP	00 51 11.8
	IpP	51 25.6
JUL 14		
ALQ	IP	01 19 14.0
JUL 14		
H-02 29 29.4		
57.1N 146.8W		
h ABOUT 33KM		
SIT	E(P)	02 30 56.3
	EL	33 12.0
COL	EP	02 31 22.0
	IS	32 49.3
HHM	E(P)	02 34 17.2
BUT	EP	02 34 45.5
BOZ	EP	02 34 47.5
EUR	IP	02 35 07.8
	E	35 15.5
TUC	EP	02 36 20.0
JUL 14		
H-04 37 03.1		
13.3N 144.6E		
h ABOUT 52KM		
GUA	IP	04 37 14.0
	E(S)	37 20.0
EUR	IP	04 49 53.2
JUL 14		
COL	EP	05 37 28.0
JUL 14		
TUC	EP	07 07 55.0
JUL 14		
COL	EP	08 18 54.1
JUL 14		
H-08 26 45.9		
39.0N 117.6W		
h ABOUT 33KM		
EUR	IP	08 27 08.2
BCN	EP	08 27 43.0
	E	27 54.5
	ES	28 25.7
UKI	E(P)	08 27 50.7
SLC	EP	08 28 18.7

Date and Station	Phase	(GCT)
		h m s
GCA	E(P)	08 28 22.8
BOZ	EP	08 28 43.5
JUL 14		
H-10 12 03.5		
60.6S 024.7W		
h ABOUT 33KM		
EUR	EP'	10 31 05.0
BOZ	EP'	10 31 10.5
	EPP	33 05.5
COL	EP'	10 32 04.0
JUL 14		
COL	EP	11 38 43.0
JUL 14		
GUA	IP	11 53 38.3
	E(S)	53 50.0
JUL 14		
H-12 16 36.8		
52.5N 168.6W		
h ABOUT 32KM		
COL	EP	12 20 23.0
BOZ	EP	12 23 45.7
EUR	IP	12 23 54.0
	EPCP	26 27.9
BCN	E(P)	12 24 20.5
TUC	E(P)	12 24 54.5
ALQ	E(P)	12 25 04.5
JUL 14		
H-12 29 56.6		
17.6S 069.5W		
h ABOUT 146KM		
ALQ	IP	12 40 09.5
TUC	EP	12 40 12.7
BCN	EP	12 40 46.0
EUR	IP	12 41 04.0
	EpP	41 38.6
BOZ	IP	12 41 15.3
	EpP	41 51.8
	EsP	42 07.5
	E	43 39.0
	EPP	44 04.0
JUL 14		
H-13 37 36.7		
17.1S 069.3W		
h ABOUT 171KM		
EUR	EP	13 48 39.5
BOZ	EP	13 48 50.5
JUL 14		
COL	EP	13 42 21.0

Date and Station	Phase	(GCT)
		h m s
JUL 14		
H-13 45 58.0		
52.4N 168.6W		
h ABOUT 33KM		
COL	EP	13 49 45.0
BOZ	EP	13 53 07.6
EUR	IP	13 53 15.0
ALQ	E(P)	13 54 25.2
JUL 14		
EUR	EP	14 14 03.2
JUL 14		
TUC	E(P)	14 28 48.0
JUL 14		
BOZ	EP	14 31 38.5
	E	32 33.5
JUL 14		
BOZ	E(P)	14 37 10.0
JUL 14		
COL	E(P)	16 30 42.4
JUL 14		
H-17 06 47.4		
01.3N 090.8W		
h ABOUT 33KM		
TUC	E(P)	17 13 49.2
ALQ	EP	17 13 50.5
EUR	IP	17 14 57.8
BOZ	FP	17 15 23.5
JUL 14		
BHP	IP	17 12 40.0
	IS	25 32.0
JUL 14		
H-17 18 34.9		
01.0N 091.2W		
h ABOUT 33KM		
ALQ	EP	17 25 41.5
TUC	E(P)	17 25 32.6
EUR	IP	17 26 46.6
JUL 14		
BUT	IP	17 26 38.9
JUL 14		
EUR	EP	17 38 45.8
JUL 14		
H-17 55 51.4		
52.6N 168.7W		
h ABOUT 6KM		
COL	EP	17 59 41.0
SIT	E(P)	18 00 23.0
HHM	E(P)	18 02 39.5

Date and Station	Phase (GCT)
	h m s
BOZ IP	18 03 03.9
EUR IP	18 03 12.2
BCN EP	18 03 37.9
TUC EP	18 04 15.3
ALQ EP	18 04 20.2
JUL 14	
H-18 01 30.1	
52.5N 168.6W	
h ABOUT 22KM	
COL IP	18 05 19.8
E	05 32.5
BOZ EP	18 08 40.0
EUR EP	18 08 49.1
TUC E(P)	18 09 51.5
JUL 14	
H-18 06 03.2	
2.2N 095.2W	
h ABOUT 33KM	
EUR IP	18 13 51.5
BOZ EP	18 14 23.0
JUL 14	
EUR EP	18 25 46.0
JUL 14	
COL EP	18 25 58.0
JUL 14	
H-18 13 24.3	
.0 123.0E	
h ABOUT 241KM	
EUR IP	18 31 38.0
TUC EP	18 31 50.8
JUL 14	
COL EP	19 04 09.0
JUL 14	
KIP E(P)	22 34 20.4
JUL 14	
TUC IP	23 17 54.5
JUL 14	
KIP EP	23 10 40.3
JUL 14	
COL EP	23 20 10.0
JUL 14	
HON EP	23 22 05.9
KIP E(P)	23 22 07.4
JUL 15	
HON EP	00 20 31.0
KIP EP	00 20 33.2

Date and Station	Phase (GCT)
	h m s
JUL 15	
COL EP	00 08 33.0
JUL 15	
JUL 15	
ALQ IP	02 11 30.2
BOZ EP	02 12 32.5
EUR EP	02 12 42.1
JUL 15	
HON EP	03 12 36.0
KIP EP	03 12 36.4
JUL 15	
HON EP	03 30 56.2
KIP IP	03 30 56.7
I	31 02.9
JUL 15	
COL EP	04 30 21.0
JUL 15	
SJG IP	04 59 26.0
IS	59 56.0
JUL 15	
COL EP	05 40 33.0
JUL 15	
H-05 45 03.5	
61.8N 148.8W	
h ABOUT 64KM	
COL EP	05 45 52.0
JUL 15	
H-07 01 41.6	
44.9N 111.7W	
h ABOUT 33KM	
BOZ IP	07 01 54.9
BZM IP	07 01 57.7
ES	02 12.0
BUT IP	07 02 04.8
IS	02 22.0
HHM EP	07 02 40.2
EL	03 41.0
SLC E(P)	07 02 48.4
EUR EP	07 03 17.1
I	03 27.0
IL	04 51.5
JUL 15	
H-08 01 16.6	
13.1S 166.9E	
h ABOUT 120KM	
COL IP	08 13 37.4
BCN EP	08 13 56.6
EPP	14 28.0
EUR IP	08 13 57.5
EPP	14 29.7

Date and Station	Phase (GCT)
	h m s
BOZ EP	08 14 20.5
JUL 15	
H-08 31 24.6	
06.6S 080.9W	
h ABOUT 36KM	
ALQ EP	08 40 02.0
EUR E(P)	08 41 09.3
JUL 15	
TUC E(P)	09 09 46.7
E(L)	10 26.0
JUL 15	
BUT EP	10 41 54.0
JUL 15	
BHP IP	12 39 46.0
JUL 15	
TUC E(P)	14 11 05.4
E(L)	12 16.5
JUL 15	
H-14 16 07.0	
37.3N 074.4W	
h ABOUT 0KM	
WSC E(P)	14 16 49.8
I	16 52.7
WAS EP	14 16 51.0
I	17 00.0
IL	17 37.0
PHI EP	14 16 57.8
CSC IP	14 17 41.0
EL	19 35.0
SJG IP	14 20 47.0
ET	37 37.5
IT	40 48.0
ALQ IP	14 21 44.4
BOZ IP	14 22 11.5
EL	28 14.0
TUC EP C	14 22 21.4
E(PCP)	25 22.0
EL	32 22.5
BUT E(P)	14 22 22.0
HHM EP	14 22 25.5
E	23 50.0
EUR E(PP)	14 23 53.0
EPCP	25 29.0
EL	32 22.5
BCN EP	14 22 41.7
EL	32 30.0
COL IP	14 25 04.7
IPCP	26 24.3
JUL 15	
BHP IP	16 12 28.5

Date and Station	Phase (GCT)
	h m s
JUL 15	
EUR E(P)	17 10 06.0
JUL 15	
H-17 50 54.9	
29.9N 138.7E	
h ABOUT 403KM	
COL IP	17 59 55.9
BOZ IP	18 02 30.0
EUR IP	18 02 33.3
TUC E(P)	18 03 09.0
JUL 15	
GCA IP	18 12 07.0
EUR IP	18 12 41.7
ALQ IP	18 13 03.3
JUL 15	
H-18 14 28.8	
51.0N 178.9E	
h ABOUT 30KM	
COL EP	18 19 23.0
BOZ EP	18 22 42.5
EUR IP	18 22 51.8
JUL 15	
COL EP	18 24 28.0
JUL 15	
H-18 33 30.7	
07.7N 123.8E	
h ABOUT 590KM	
GUA EP	18 37 40.5
COL IP	18 44 52.4
I	49 23.5
ESKS	54 18.5
SIT E(P)	18 45 27.0
BOZ EP	18 46 48.7
EP'	50 53.5
EUR IP	18 46 49.5
IP'	50 54.0
E(PP)	51 41.5
EPKKP	19 02 24.9
TUC E(P')	18 50 48.7
EPKKP	19 01 46.2
ALQ IP'	18 51 10.6
SJG EP'	18 52 15.1
I	52 36.0
BHP IP'	18 52 20.0
JUL 15	
COL EP	19 39 53.0

Date and Station	Phase (GCT)
	h m s
JUL 15	
H-20 32 59.7	
23.5S 179.9W	
h ABOUT 528KM	
TUC EP	20 44 47.0
EUR IP	20 44 47.2
BOZ EP	20 45 15.5
JUL 15	
COL EP	20 47 09.0
JUL 15	
H-21 05 04.5	
30.6S 179.6W	
h ABOUT 335KM	
TUC E(P)	21 17 29.5
EUR EP	21 17 33.7
JUL 15	
KIP EP	21 27 00.0
JUL 15	
BUT IP	22 00 35.5
JUL 15	
COL EP	23 03 11.0
JUL 15	
COL IP	23 32 13.0
JUL 15	
HON IP	23 32 50.0
ES	33 26.0
KIP IP	23 32 52.1
ES	33 26.8
JUL 15	
EUR IP	23 38 37.1
JUL 16	
COL EP	01 08 42.0
JUL 16	
H-01 18 24.2	
34.1N 117.4W	
h ABOUT 16KM	
BCN IP	01 19 11.6
E	19 17.3
IL	19 52.0
TUC E(P)	01 19 51.0
EUR IP	01 19 51.0
EL	21 18.6
JUL 16	
COL IP	02 02 03.8
JUL 16	
H-02 12 11.2	
4.6S 152.4E	
h ABOUT 92KM	
COL IP	02 24 21.0
EUR IP	02 25 22.2
BOZ EP	02 25 36.7
JUL 16	
EUR IP	02 32 28.9
JUL 16	
TUC EP	03 05 28.0
ALQ EP	03 05 29.0
EUR EP	03 05 52.0
I	06 11.0
JUL 16	
BOZ E(P)	03 34 07.0
JUL 16	
COL IP	04 37 00.5
JUL 16	
BOZ EP	05 34 25.0
E	35 05.0
JUL 16	
COL IP	06 15 17.1
EUR EP	06 16 18.1
JUL 16	
COL EP	06 25 04.0
JUL 16	
H-07 00 11.2	
58.8S 025.0W	
h ABOUT 33KM	
EUR EP'	07 19 05.5
BOZ EP'	07 19 10.5
COL IP'	07 20 04.7
JUL 16	
H-07 27 10.8	
19.4S 177.6W	
h ABOUT 563KM	
EUR EP	07 38 33.9
TUC EP	07 38 34.0
COL IP	07 38 56.1
BOZ EP	07 39 03.0
JUL 16	
SJG E(P)	07 39 50.3
JUL 16	
H-07 46 21.5	
34.4N 118.6W	
h ABOUT 25KM	
BCN EP	07 47 15.0
I	47 25.0
IL	48 08.2
EUR EP	07 47 44.9
I	48 00.8
IL	49 08.5
GCA E(P)	07 47 57.3
TUC EP	07 48 02.0
E(L)	50 01.2
SLC EL	07 50 41.3
ALQ EP	07 48 49.5
BOZ EP	07 49 23.5
JUL 16	
COL E(P)	09 02 02.5
JUL 16	
ALQ IP	09 03 45.8
JUL 16	
H-10 34 12.0	
11.6N 088.0W	
h ABOUT 30KM	
BHP EL	10 39 12.0
SJG E(P)	10 39 06.0
CSC EP	10 39 18.0
EL	48 30.0
ALQ EP	10 40 09.0
TUC EP	10 40 20.0
BCN EP	10 40 57.9
EUR EP	10 41 26.8
BOZ EP	10 41 41.7
UKI E(P)	10 42 03.7
HHM E(P)	10 42 08.0
E	44 02.5
COL EP	10 45 03.0
JUL 16	
H-11 21 10.4	
11.6N 087.8W	
h ABOUT 33KM	
ALQ IP	11 27 09.4
TUC E(P)	11 27 19.0
EUR E(P)	11 28 25.0
BOZ EP	11 28 41.5
JUL 16	
EUR IP	11 54 26.0
JUL 16	
H-12 19 21.5	
14.6S 173.1W	
h ABOUT 50KM	
TUC EP	12 31 04.0
COL IP	12 31 35.0
BOZ EP	12 31 36.5
JUL 16	
H-12 47 14.3	
01.2N 090.5W	
h ABOUT 44KM	
BHP I(P)	12 50 14.0
SJG EP	12 53 14.0
TUC EP	12 54 16.4
ALQ IP	12 54 19.2
GCA EP	12 54 54.5
BCN EP	12 54 58.3
SLC EP	12 55 19.3
EUR EP	12 55 24.3
E	55 30.0
BOZ EP	12 55 51.8
HHM E(P)	12 56 15.8
COL E(P)	12 58 57.0
JUL 16	
BCN IP D	13 04 52.2
IL	05 14.0
EUR IP	13 05 04.5
IL	05 35.0
GCA EP	13 05 29.0
TUC E(P)	13 06 06.4
JUL 16	
ALQ IP	13 06 55.4
JUL 16	
H-13 17 08.0	
11.9S 166.2E	
h ABOUT 60KM	
COL EP	13 29 30.0
BCN EP	13 29 54.5
EUR E(P)	13 29 54.5
TUC EP	13 30 05.0
BOZ EP	13 30 18.3
JUL 16	
EUR EP	14 10 57.8
JUL 16	
TUC E(P)	15 20 43.0
E(L)	21 59.5
JUL 16	
EUR E(P)	16 26 23.0
JUL 16	
H-18 09 34.6	
23.5S 067.8W	
h ABOUT 193KM	
EUR EP	18 21 09.0

Date and Station	Phase (GCT)
	h m s
JUL 16	
COL IP	19 28 33.1
JUL 16	
COL EP	21 09 49.0
JUL 16	
COL EP	21 11 49.0
JUL 16	
KIP EP	21 25 04.6
JUL 16	
COL IP	21 39 32.1
JUL 16	
EUR IP	21 57 07.0
I(L)	57 56.3
JUL 16	
BCN E(P)	22 09 33.5
IL	10 15.0
JUL 16	
EUR EP	22 10 38.2
JUL 16	
H-22 33 16.1	
11.8S 166.0E	
h ABOUT 28KM	
HON ES	22 49 15.0
EL	56 18.0
COL EP	22 45 42.3
I	46 01.0
EUR IP	22 46 09.0
JUL 16	
TUC E(P)	22 40 44.2
EUR E(P)	22 40 45.6
JUL 16	
TUC EP	23 03 46.0
JUL 16	
EUR EP	23 52 55.0
JUL 17	
EUR IP	00 06 31.0
JUL 17	
KIP E(P)	01 23 27.5
JUL 17	
BOZ EP	03 03 38.6
COL EP	03 03 43.0
JUL 17	
BCN IP	06 57 40.5
IS	57 43.3
JUL 17	
H-07 20 30.7	
9.7S 159.8E	
h ABOUT 24KM	
GUA EP	07 26 17.0
EL	32 02.0
KIP EP	07 29 37.7
ES	37 10.5
EL	43 20.0
HON ES	07 37 20.6
EL	43 40.0
BCN I(P)	07 33 41.5
HHM E(P)	07 33 53.8
COL IP	07 32 59.2
SIT E(P)	07 33 05.0
ES	43 34.0
EUR EP	07 33 38.1
EPP	37 49.5
I	51 43.9
EP'P'	59 22.0
TUC E(P)	07 33 53.6
SLC EP	07 33 56.7
BOZ EP	07 33 57.0
EPP	38 05.0
ESKS	44 38.0
E	46 40.0
ALQ IP	07 34 09.6
JUL 17	
TUC E(P)	08 05 58.5
JUL 17	
BOZ IP	08 33 58.5
I	34 10.0
BUT EP	08 34 13.0
IL	34 34.0
HHM E(P)	08 34 39.8
JUL 17	
TUC EP	10 32 02.2
E(L)	33 09.5
EUR EP	10 33 21.2
EL	36 06.0
ALQ EP	10 33 37.8
JUL 17	
H-12 47 48.7	
7.2S 153.7E	
h ABOUT 23KM	
GUA EP	12 52 47.0
ES	56 55.0
KIP E(P)	12 57 29.3
ES	13 05 10.0
EL	13 05.0
HON ES	13 05 20.3
EL	13 08.0
COL IP	13 00 15.2
EUR IP	13 01 10.8
EPP	05 12.0
BCN EP	13 01 13.9
E(PP)	05 04.5
BOZ EP	13 01 26.0
EPP	05 28.0
ALQ E(P)	13 01 45.4
CSC EP'	13 06 45.8
SJG EP'	13 07 08.5
I	07 17.0
JUL 17	
H-12 50 55.3	
51.3N 173.5E	
h ABOUT 33KM	
COL EP	12 56 08.0
EUR IP	12 59 41.5
JUL 17	
BUT EP	12 57 26.2
JUL 17	
H-12 59 11.0	
27.1S 177.6W	
h ABOUT 27KM	
KIP E(P)	13 08 21.0
HON ES	13 15 54.0
BCN EP	13 11 52.7
TUC IP	13 11 56.2
E	12 01.8
E(S)	22 41.0
EUR IP	13 11 58.6
GCA EP	13 12 06.5
SLC EP	13 12 15.1
ALQ IP	13 12 16.0
E	12 20.5
BOZ IP D	13 12 28.0
I	12 33.1
E(PP)	16 14.0
COL IP	13 12 29.3
JUL 17	
H-13 18 32.3	
17.4S 167.1E	
h ABOUT 49KM	
COL IP	13 31 20.4
F	31 30.9
EUR EP	13 31 33.0
JUL 17	
H-13 59 46.2	
12.2N 087.9W	
h ABOUT 56KM	
ALQ IP	14 05 36.6
TUC E(P)	14 05 47.5
EUR IP	14 06 50.7
BUT EP	14 07 14.6
JUL 17	
TUC EP	14 08 52.5
JUL 17	
H-15 52 25.7	
17.9N 061.5W	
h ABOUT 24KM	
SJG IP	15 53 32.5
E(S)	54 24.0
CSC EP	15 57 37.0
E	57 47.0
EL	16 02 07.0
ALQ IP	16 00 28.0
TUC IP C	16 00 53.9
BOZ EP	16 01 19.0
BCN EP	16 01 22.5
BUT EP	16 01 23.7
E	01 42.7
EUR IP	16 01 32.4
I	01 48.6
COL IP	16 03 51.2
JUL 17	
SJG EP C	16 53 33.0
IS	54 24.7
JUL 17	
ALQ IP	17 01 16.2
JUL 17	
H-18 09 10.9	
30.7N 130.4E	
h ABOUT 114KM	
COL EP	18 19 03.0
EUR EP	18 21 44.3
JUL 17	
KIP E(P)	18 17 51.0
JUL 17	
TUC E(P)	18 21 25.0
JUL 17	
H-18 21 34.6	
54.5N 161.5W	
h ABOUT 37KM	
COL E(P)	18 24 28.0
EL	28 29.6
EUR IP	18 28 15.8
TUC E(P)	18 29 16.0
ALQ E(P)	18 29 25.0
EPCP	31 19.6
JUL 17	
KIP E(P)	19 02 35.0

Date and Station	Phase	(GCT)
		h m s
JUL 17		
COL	EP	19 21 13.0
JUL 17		
H-20 01 14.5		
16.4S 167.7E		
h ABOUT 28KM		
COL	EP	20 14 00.0
EUR	IP	20 14 14.2
JUL 17		
TUC	E(P)	20 43 31.8
JUL 17		
COL	EP	20 58 42.0
EUR	E(P)	20 58 57.7
JUL 18		
EUR	IP	00 32 33.7
JUL 18		
H-03 55 51.4		
39.5N 109.9W		
h ABOUT 33KM		
GCA	IP	03 56 37.3
EUR	EP	03 57 01.0
ALQ	E(P)	03 57 09.0
JUL 18		
H-05 32 46.8		
7.9N 142.2E		
h ABOUT 25KM		
GUA	EP	05 34 18.3
	ES	35 24.0
COL	IP	05 44 24.8
BOZ	E(P)	05 46 06.0
EUR	EP	05 46 06.9
JUL 18		
TUC	E(P)	06 50 08.0
JUL 18		
H-06 59 07.0		
21.0S 067.8W		
h ABOUT 186KM		
ALQ	IP	07 09 39.8
TUC	EP	07 09 42.7
EUR	E(P)	07 10 31.6
BOZ	EP	07 10 43.4
JUL 18		
TUC	E(P)	07 11 14.0
JUL 18		
COL	IP	07 17 51.8
JUL 18		
H-07 23 32.2		
52.5N 163.6W		
h ABOUT 35KM		
COL	E(P)	07 26 55.0
BUT	EP	07 30 08.8
BOZ	IP D	07 30 15.3
	I▸P	30 25.0
EUR	IP	07 30 23.5
TUC	EP	07 31 28.0
	E▸P	31 38.5
ALQ	IP	07 31 35.4
	E(PP)	33 22.2
JUL 18		
COL	E(P)	07 42 16.0
JUL 18		
COL	EP	07 51 21.0
JUL 18		
H-07 57 47.0		
35.5N 139.7E		
h ABOUT 78KM		
COL	IP	08 06 44.3
BOZ	EP	08 09 31.6
	E▸P	09 49.0
EUR	IP	08 09 38.9
	I▸P	09 56.2
JUL 18		
COL	EP	08 16 35.0
JUL 18		
BCN	IP	08 53 47.4
	IS	53 49.5
JUL 18		
EUR	E(P)	09 05 28.2
JUL 18		
H-09 41 25.8		
56.9N 151.1W		
h ABOUT 33KM		
COL	EP	09 43 24.0
EUR	E(P)	09 47 22.5
JUL 18		
H-09 59 45.8		
46.6N 152.4E		
h ABOUT 36KM		
COL	IP	10 06 49.9
BOZ	EP	10 10 05.6
	E▸P	10 17.0
EUR	IP	10 10 15.5
	I▸P	10 26.6
BCN	EP	10 10 35.0
ALQ	E(P)	10 11 09.6
JUL 18		
COL	EP	11 08 12.0
JUL 18		
TUC	E(P)	12 01 41.0
JUL 18		
BCN	E(P)	12 01 51.8
JUL 18		
ALQ	EP	12 03 47.0
JUL 18		
EUR	EP	12 17 00.0
BOZ	EP	12 17 04.9
COL	IP	12 17 59.0
JUL 18		
BUT	EP	12 30 28.0
	EL	30 46.4
JUL 18		
COL	EP	13 25 55.0
JUL 18		
H-13 31 43.9		
27.4S 176.0W		
h ABOUT 24KM		
TUC	EP	13 44 23.5
EUR	IP	13 44 28.2
BOZ	EP	13 44 57.5
JUL 18		
COL	EP	14 57 26.0
JUL 18		
H-15 58 10.5		
33.7N 116.2W		
h ABOUT 16KM		
BCN	EP	15 58 51.5
	I	58 56.5
	IL	59 30.5
TUC	E(P)	15 59 24.0
	IL	16 01 10.0
EUR	IP	15 59 37.7
ALQ	E(P)	16 00 18.0
JUL 18		
BCN	E(P)	16 24 28.0
	I	24 32.5
	IL	25 07.0
EUR	E(P)	16 25 12.5
JUL 18		
TUC	E(P)	16 55 40.2
JUL 18		
GCA	EP	17 10 10.6
JUL 18		
EUR	EP	17 10 34.0
	EL	11 13.4
JUL 18		
H-17 49 14.0		
51.1N 178.1E		
h ABOUT 30KM		
COL	IP	17 54 11.1
BOZ	EP	17 57 31.0
EUR	IP	17 57 40.0
	E(▸P)	57 51.0
JUL 18		
H-19 03 42.3		
36.7N 121.7W		
h ABOUT 16KM		
UKI	E(P)	19 04 22.5
EUR	IP	19 05 04.5
	I	05 22.9
	IS	06 07.5
	IL	06 18.5
BCN	E(P)	19 05 08.5
	EL	06 41.0
TUC	E(P)	19 06 06.0
JUL 18		
COL	EP	19 57 45.0
JUL 18		
ALQ	IP	20 38 01.4
	I	38 09.5
JUL 18		
ALQ	E(P)	21 08 41.0
	E	08 52.0
	EL	09 57.0
EUR	E(P)	21 09 21.0
BOZ	E(P)	21 09 31.0
BUT	EP	21 09 59.0
TUC	E(P)	21 10 04.0
JUL 18		
ALQ	E(P)	21 14 40.0
	EL	15 56.0
JUL 18		
H-21 40 44.7		
39.8N 104.8W		
h ABOUT 5KM		
ALQ	E(P)	21 42 07.0
	E	42 16.5
	EL	43 22.5
EUR	EP	21 43 06.8
JUL 18		
H-22 15 03.3		
45.4N 151.5E		
h ABOUT 35KM		
COL	IP	22 22 19.3
BUT	EP	22 25 27.6
BOZ	IP C	22 25 32.0
EUR	IP	22 25 41.0
SLC	EP	22 25 51.0

Date and Station	Phase (GCT)
	h m s
TUC EP	22 26 29.0
ALQ EP	22 26 34.4
JUL 19	
H-00 03 55.1	
45.5N 151.4E	
h ABOUT 45KM	
COL IP	00 11 09.7
EUR EP	00 14 31.5
JUL 19	
EUR E(P)	03 22 09.0
JUL 19	
H-04 13 21.7	
9.1N 070.5W	
h ABOUT 41KM	
BHP IP	04 15 28.0
IS	17 06.5
SJG I(P)	04 15 39.5
CSC IP D	04 18 58.0
ES	23 50.0
ALQ IP	04 21 09.5
EPP	22 40.0
E	23 13.0
ES	27 20.0
TUC IP	04 21 26.0
ES	27 58.0
EL	31 14.0
RCD EP	04 21 33.0
E	21 39.0
EPP	23 17.0
GCA EP	04 21 48.0
SLC EP	04 22 01.7
BCN EP	04 22 02.4
EUR IP	04 22 19.0
E(PP)	24 25.4
ESCP	27 31.4
BOZ IP C	04 22 19.0
ES	29 36.0
EL	33 35.0
BUT EP	04 22 25.5
HHM E(P)	04 22 37.9
COL EP	04 25 07.0
JUL 19	
BOZ E(P)	05 30 48.0
E	32 28.0
HHM E(P)	05 31 23.9
JUL 19	
H-05 39 49.2	
10.2S 152.4E	
h ABOUT 33KM	
COL EP	05 52 27.0

Date and Station	Phase (GCT)
	h m s
EUR E(P)	05 53 17.5
JUL 19	
TUC E(P)	05 49 17.0
JUL 19	
H-06 47 22.0	
27.7N 139.8E	
h ABOUT 477KM	
COL IP	06 56 28.2
BOZ EP	06 58 54.7
EUR IP	06 58 57.6
EsP	07 00 42.0
RCD E(P)	06 59 23.0
TUC EP	06 59 31.0
ALQ IP	06 59 39.8
JUL 19	
H-07 35 01.1	
54.1N 163.4W	
h ABOUT 42KM	
COL EP	07 38 09.0
EUR IP	07 41 51.1
TUC E(P)	07 42 57.0
JUL 19	
H-07 36 32.3	
27.3S 070.8W	
h ABOUT 7KM	
TUC E(P)	07 47 49.0
ALQ IP	07 47 50.2
E	48 04.5
RCD E(P)	07 48 28.0
EUR EP	07 48 37.5
BOZ EP	07 48 51.7
BUT EP	07 48 57.2
JUL 19	
EUR E(P)	07 50 27.5
JUL 19	
KIP E(P)	08 16 04.6
JUL 19	
COL EP	08 19 11.0
JUL 19	
H-08 51 36.1	
06.9S 147.5E	
h ABOUT 71KM	
COL IP	09 04 07.2
EUR IP	09 05 13.0
BOZ IP	09 05 27.0
SJG EP'	09 11 07.0

Date and Station	Phase (GCT)
	h m s
JUL 19	
H-09 07 16.6	
02.6N 096.8E	
h ABOUT 69KM	
BOZ EP'	09 26 12.5
EUR EP'	09 26 18.0
JUL 19	
H-09 09 33.7	
2.3N 96.4E	
h ABOUT 4KM	
COL E(P')	09 27 10.7
BOZ EP'	09 28 39.5
EUR IP'	09 28 45.8
E(PP)	30 56.0
ALQ E(P')	09 28 51.0
JUL 19	
TUC EP	09 32 31.6
JUL 19	
BCN E(P)	10 10 50.0
EL	11 41.0
EUR EP	10 11 34.1
FL	12 56.0
JUL 19	
H-10 16 15.8	
48.8N 154.1E	
h ABOUT 70KM	
COL IP	10 22 56.8
BOZ IP D	10 26 18.0
EUR IP	10 26 28.5
E	26 53.1
TUC F(P)	10 27 18.7
JUL 19	
COL EP	10 21 09.2
JUL 19	
COL EP	10 28 51.0
JUL 19	
H-10 40 21.0	
16.8N 097.8W	
h ABOUT 78KM	
TUC E(P)	10 44 42.0
ALQ IP	10 44 45.5
EUR EP	10 46 03.0
BOZ E(P)	10 46 41.0
COL EP	10 50 10.6
E(sP)	50 35.1
JUL 19	
H-12 37 22.6	
28.2S 068.8W	
h ABOUT 97KM	

Date and Station	Phase (GCT)
	h m s
TUC EP	12 48 38.2
ALQ IP	12 48 38.5
BCN EP	12 49 08.0
EUR IP	12 49 25.0
IsP	50 06.0
BOZ IP D	12 49 39.0
BUT IP D	12 49 43.3
HHM EP	12 49 53.9
JUL 19	
H-15 05 01.2	
26.8S 071.0W	
h ABOUT 45KM	
TUC E(P)	15 16 10.0
ALQ IP	15 16 10.5
EUR IP	15 16 58.0
BOZ IP	15 17 13.0
JUL 19	
H-15 18 52.3	
30.5S 060.1E	
h ABOUT 33KM	
TUC EP'	15 39 00.7
JUL 19	
COL IP	15 53 25.8
JUL 19	
EUR IP	16 13 37.5
JUL 19	
H-16 46 04.6	
11.9S 166.0E	
h ABOUT 57KM	
COL EP	16 58 28.8
EUR EP	16 58 51.8
E	59 08.5
TUC E(P)	16 59 02.9
BOZ E(P)	16 59 11.5
JUL 19	
COL EP	17 02 20.0
JUL 19	
COL IP	17 35 33.5
JUL 19	
EUR IP	18 23 04.2
JUL 19	
GCA EP	18 55 16.2
JUL 19	
COL IP	20 34 31.0
JUL 19	
H-21 45 02.3	
40.8N 125.5W	
h ABOUT 33KM	

Date and Station	Phase	Phase (GCT) h m s
UKI	E(P)	21 45 43.5
EUR	IP	21 46 50.0
COL	E(P)	21 50 45.9
JUL 19		
H-22 14 21.7		
10.6N 085.3W		
h ABOUT 80KM		
BHP	IP	22 15 48.0
SJG	EP	22 18 51.1
	I	18 55.4
ALQ	EP	22 20 33.0
TUC	E(P)	22 20 42.0
SLC	EP	22 21 35.2
EUR	IP	22 21 47.5
	I(pP)	22 09.5
BOZ	EP	22 21 59.0
JUL 19		
COL	EP	23 06 42.0
JUL 19		
H-23 53 56.2		
25.6S 180.0E		
h ABOUT 497KM		
TUC	IP	24 05 53.2
	E(pP)	07 40.0
EUR	IP	24 05 54.2
	EpP	07 44.2
JUL 20		
COL	EP	00 08 11.0
BUT	EP	00 09 13.5
JUL 20		
TUC	E(P)	00 29 04.3
JUL 20		
H-00 53 06.0		
31.6N 114.3W		
h ABOUT 33KM		
TUC	E(P)	00 53 43.0
	E	54 30.0
BCN	EP	00 54 10.0
	E	54 20.0
GCA	IP	00 54 35.0
ALQ	E(P)	00 54 41.8
	E	55 17.0
EUR	E(P)	00 55 01.5
	EL	57 11.0
BOZ	EP	00 56 32.0
	ES	59 24.0
	EL	01 01 54.0
BUT	E(P)	00 56 33.5
	E(S)	59 47.5
RCD	EP	00 56 42.0
	E	56 57.0
	EL	01 01 04.0
HHM	E(P)	00 56 59.0
	E(S)	01 00 20.0
WAS	EL	01 09 13.0
	E	09 31.0
WSC	EL	01 09 18.0
	E	16 40.5
PHI	EL	01 10 08.4
	I	10 23.4
COL	EP	01 00 34.0
SJG	EP	01 01 21.0
JUL 20		
COL	EP	01 07 02.0
JUL 20		
HON	EL	01 10 24.0
JUL 20		
KIP	E(P)	01 26 29.0
JUL 20		
H-01 31 42.4		
31.5N 114.0W		
h ABOUT 33KM		
TUC	E(P)	01 32 15.0
	E	32 35.0
BCN	E(P)	01 32 40.0
	E	32 58.0
GCA	EP	01 33 09.3
ALQ	EP	01 33 29.0
EUR	IP	01 33 44.2
	EL	36 15.0
BOZ	E(P)	01 35 02.5
COL	IP	01 39 10.0
JUL 20		
TUC	E(P)	02 13 26.8
	E	14 16.0
ALQ	EP	02 14 31.0
EUR	E(P)	02 14 52.5
	EL	17 13.5
JUL 20		
EUR	EP	02 24 52.2
JUL 20		
COL	EP	03 01 27.0
JUL 20		
EUR	EP	03 10 07.1
JUL 20		
COL	EP	03 24 32.0
JUL 20		
COL	E(P)	03 30 42.5
JUL 20		
H-04 04 16.1		
35.6N 135.2E		
h ABOUT 61KM		
COL	EP	04 13 29.0
BOZ	EP	04 16 16.5
EUR	EP	04 16 23.5
JUL 20		
TUC	E(P)	05 03 14.0
JUL 20		
TUC	E(P)	05 08 31.7
JUL 20		
TUC	E(P)	05 54 41.5
JUL 20		
TUC	E(P)	06 01 39.5
	E(L)	02 40.5
BCN	EP	06 02 13.5
	E	02 42.0
	IL	04 04.0
GCA	E(P)	06 02 40.4
ALQ	EP	06 02 57.4
EUR	E(P)	06 03 12.1
	EL	05 32.6
JUL 20		
COL	EP	06 12 52.0
JUL 20		
COL	EP	07 23 53.0
JUL 20		
BCN	E(P)	07 40 57.5
	EL	42 50.5
JUL 20		
H-07 43 27.7		
36.7N 071.4E		
h ABOUT 194KM		
COL	IP	07 54 44.5
	EpP	55 32.0
JUL 20		
TUC	EP	07 49 24.0
JUL 20		
H-11 19 54.2		
48.8N 155.7E		
h ABOUT 49KM		
COL	IP	11 26 31.2
HHM	E(P)	11 29 23.9
BUT	E(P)	11 29 49.8
BOZ	EP	11 29 52.5
	I	30 08.0
EUR	IP	11 30 03.2
	I	30 19.4
RCD	EP	11 30 29.0
	E	30 45.0
TUC	E(P)	11 30 54.5
ALQ	IP	11 30 59.0
	E	31 14.0
JUL 20		
TUC	E(P)	11 24 49.0
	E(S)	25 33.5
BCN	E(P)	11 25 20.0
	EL	26 52.0
JUL 20		
ALQ	E(P)	11 59 03.0
JUL 20		
GUA	EP	12 02 14.3
JUL 20		
EUR	IP	12 14 20.8
JUL 20		
EUR	EP	12 24 50.5
JUL 20		
BOZ	E(P)	12 55 44.0
EUR	E(P)	12 55 55.0
JUL 20		
H-13 18 27.7		
07.5N 124.3E		
h ABOUT 45KM		
GUA	EP	13 23 11.0
	ES	27 10.0
COL	EP	13 30 46.0
	EPP	34 02.0
EUR	E(P)	13 32 51.5
	EP'	36 52.2
	EPP	37 24.0
	EPKKP	48 20.5
ALQ	EP'	13 37 07.8
	EPKKP	47 42.4
JUL 20		
SJG	EP	13 39 07.9
JUL 20		
H-13 38 49.0		
22.1S 068.4W		
h ABOUT 123KM		
ALQ	IP	13 49 33.0
TUC	EP	13 49 34.0
EUR	EP	13 50 23.4
JUL 20		
H-13 52 48.0		
26.5S 176.5W		
h ABOUT 49KM		
TUC	EP	14 05 23.4
EUR	IP	14 05 27.4

Date and Station	Phase (GCT)
	h m s
ALQ IP D	14 05 44.5
E	05 51.0
BOZ EP	14 05 56.0
COL IP	14 06 00.0
JUL 20	
H-14 49 28.8	
37.9N 112.5W	
h ABOUT 33KM	
GCA EP	14 49 48.0
BCN EP	14 50 11.8
I	50 16.4
IL	50 52.5
EUR IP	14 50 15.8
IL	51 03.0
ALQ EP	14 50 51.4
TUC E(P)	14 51 02.0
JUL 20	
TUC E(P)	14 59 51.5
E	15 00 34.0
JUL 20	
H-15 04 21.9	
58.1S 026.1W	
h ABOUT 33KM	
COL EP'	15 24 12.0
JUL 20	
COL EP	16 02 03.0
JUL 20	
H-16 57 00.2	
62.0N 147.0W	
h ABOUT 33KM	
COL IP D	16 57 46.1
E(S)	58 16.0
EUR EP	17 03 01.5
JUL 20	
COL IP	18 17 27.0
JUL 20	
EUR I(P)	18 40 02.2
JUL 20	
COL EP	19 27 07.0
JUL 20	
H-20 11 41.1	
53.9N 166.5W	
h ABOUT 73KM	
COL IP	20 15 04.5
BRW EP	20 15 50.7
HHM IP	20 18 09.9
EUR IP	20 18 43.5
E(pP)	19 01.9
EPCP	21 04.0

Date and Station	Phase (GCT)
	h m s
BCN EP	20 19 08.5
EpP	19 26.0
TUC EP	20 19 48.1
EpP	20 06.0
EPCP	21 29.5
SJG EP	20 23 52.5
I	23 55.4
JUL 20	
KIP EP	20 52 34.6
JUL 20	
TUC E(P)	21 03 02.9
E	04 00.2
BCN E(P)	21 03 43.5
EL	05 13.5
EUR EP	21 04 24.8
EL	07 14.6
JUL 20	
KIP E(P)	21 10 53.6
JUL 20	
COL EP	21 23 52.0
JUL 20	
COL EP	21 47 06.0
JUL 20	
EUR IP	21 59 01.2
IL	59 17.0
JUL 20	
SJG IP	22 39 48.0
IS	40 28.8
JUL 20	
COL EP	22 49 39.0
JUL 20	
TUC E(P)	23 06 05.0
JUL 20	
BCN EP	23 12 05.8
I	12 13.0
EL	12 56.0
JUL 21	
TUC E(P)	00 03 09.6
EL	03 55.0
JUL 21	
H-00 30 14.7	
27.2S 176.3W	
h ABOUT 33KM	
TUC EP	00 42 53.0
EUR E(P)	00 42 58.0
BOZ EP	00 43 27.5
JUL 21	
EUR E(P)	01 42 12.4
JUL 21	
EUR E(P)	01 55 09.9

Date and Station	Phase (GCT)
	h m s
JUL 21	
H-02 51 39.0	
20.9S 175.7W	
h ABOUT 58KM	
KIP IP	02 59 54.2
ES	03 06 36.0
HON ES	03 06 32.0
EL	09 58.0
BCN EP	03 03 47.5
I	03 53.5
EUR IP	03 03 54.0
I	04 02.1
EpP	04 09.6
EPP	07 05.5
GCA EP	03 04 03.0
SLC E(P)	03 04 07.8
E	04 11.6
ALQ IP C	03 04 14.6
I	04 23.0
ES	14 56.0
BUT EP	03 04 22.0
HHM E(P)	03 04 22.3
COL EP	03 04 23.0
ES	15 08.0
BOZ EP	03 04 23.6
I	04 31.5
IS	15 10.0
EL	28 00.0
RCD EP	03 04 45.0
BRW EP	03 04 47.1
SJG EP'	03 10 19.0
JUL 21	
TUC EP	03 54 19.4
JUL 21	
BOZ EP	04 09 56.0
JUL 21	
BOZ EP	04 15 28.0
JUL 21	
EUR E(P)	04 49 11.5
ALQ E(P)	04 49 33.0
COL EP	04 49 36.9
JUL 21	
EUR E(P)	06 17 54.5
JUL 21	
GUA E(P)	08 00 11.0
JUL 21	
COL EP	08 20 18.6
JUL 21	
COL EP	08 41 45.5

Date and Station	Phase (GCT)
	h m s
JUL 21	
H-08 44 32.9	
24.8S 180.0W	
h ABOUT 422KM	
TUC EP	08 56 34.0
EUR EP	08 56 34.8
JUL 21	
H-09 08 12.3	
59.1N 153.9W	
h ABOUT 53KM	
COL IP	09 09 48.0
BRW EP	09 11 10.1
EL	15 00.0
HHM E(P)	09 13 34.7
EUR IP	09 14 26.8
EPCP	17 21.3
ESCP	21 08.2
RCD EP	09 14 52.0
ALQ EP	09 15 37.0
EPCP	17 40.0
JUL 21	
EUR EP	10 09 20.0
JUL 21	
COL EP	10 37 11.0
EUR IP	10 37 37.0
JUL 21	
COL E(P)	11 19 11.0
JUL 21	
COL EP	12 59 42.0
JUL 21	
COL IP	13 06 55.8
JUL 21	
H-16 18 01.2	
11.9S 166.0E	
h ABOUT 54KM	
COL EP	16 30 27.0
JUL 21	
H-16 56 51.2	
51.9N 174.0E	
h ABOUT 42KM	
COL IP	17 01 57.0
EUR IP	17 05 32.5
JUL 21	
TUC E(P)	17 15 54.0
JUL 21	
EUR E(P)	17 39 33.0
JUL 21	
H-17 52 29.4	
53.3N 170.4E	
h ABOUT 17KM	

Date and Station	Phase	(GCT) h m s
BRW	EP	17 57 36.2
COL	IP	17 57 43.2
	ES	18 02 00.0
HHM	IP	18 00 55.2
BUT	IP	18 01 09.6
BOZ	IP	18 01 16.4
	ES	08 30.0
EUR	IP	18 01 28.0
	ESCP	06 56.0
	ES	08 49.0
BCN	EP	18 01 51.0
RCD	EP	18 01 58.0
TUC	IP C	18 02 26.3
	E	02 35.2
	ES	10 30.0
ALQ	IP	18 02 30.5
JUL 21		
COL	IP	19 02 21.6
JUL 21		
COL	E(P)	19 05 02.0
BOZ	EP	19 05 02.5
	E	05 17.0
JUL 21		
HHM	E(P)	20 49 47.7
JUL 21		
EUR	E(P)	21 29 26.5
JUL 21		
EUR	E(P)	22 27 41.1
JUL 21		
H-23 50 23.5		
16.2S 173.5W		
h ABOUT 59KM		
ALQ	E(P)	24 02 36.0
COL	IP	24 02 44.3
JUL 22		
COL	IP	00 32 57.2
JUL 22		
EUR	IP	00 33 01.7
JUL 22		
H-01 18 52.0		
50.9N 176.0E		
h ABOUT 44KM		
COL	IP	01 23 57.5
BOZ	IP	01 27 18.0
	EPCP	28 51.5
EUR	IP	01 27 26.2
	IPP	27 38.9
	IPCP	28 55.1
TUC	EP	01 28 24.0
	E	28 40.6
ALQ	IP	01 28 30.6
	EPCP	29 28.4
JUL 22		
TUC	E(P)	02 04 17.0
JUL 22		
EUR	EP	06 06 59.2
JUL 22		
EUR	E(P)	07 54 28.5
JUL 22		
COL	EP	10 28 34.0
JUL 22		
COL	EP	13 13 24.0
JUL 22		
BCN	EP	13 21 36.5
	ES	22 01.5
EUR	EP	13 21 48.6
	IL	22 25.0
JUL 22		
EUR	EP	15 16 38.2
JUL 22		
EUR	EP	15 34 32.0
JUL 22		
EUR	EP	15 57 07.7
JUL 22		
H-16 28 16.9		
16.8S 173.6W		
h ABOUT 44KM		
TUC	EP	16 40 08.0
EUR	IP	16 40 10.8
ALQ	EP	16 40 33.6
BOZ	IP	16 40 42.5
COL	IP	16 40 43.2
JUL 22		
H-17 46 28.9		
10.1S 161.7E		
h ABOUT 58KM		
COL	EP	17 58 51.5
	E	59 12.6
EUR	EP	17 59 27.5
JUL 22		
EUR	E(P)	18 45 43.0
JUL 22		
COL	EP	19 16 14.0
JUL 22		
H-19 46 57.9		
15.2S 173.6W		
h ABOUT 33KM		
TUC	E(P)	19 58 46.0
EUR	EP	19 58 47.9
COL	IP	19 59 15.0
JUL 22		
HON	EP	22 27 49.2
	ES	28 24.5
KIP	IP	22 27 51.6
	ES	28 26.3
JUL 22		
COL	EP	22 59 02.0
JUL 22		
FGU	EP	22 59 18.5
	EL	23 00 42.2
JUL 23		
EUR	EP	00 06 17.5
JUL 23		
BUT	E(P)	00 44 12.7
JUL 23		
H-00 58 58.9		
21.2S 70.4W		
h ABOUT 33KM		
EUR	E(P)	01 10 29.0
JUL 23		
KIP	EP	01 33 20.9
JUL 23		
HON	E(P)	04 37 44.0
	E	38 15.0
KIP	EP	04 37 46.2
	I	38 15.2
JUL 23		
COL	EP	04 45 37.0
JUL 23		
BOZ	EP	04 58 51.0
EUR	IP	04 59 03.0
JUL 23		
H-05 01 41.3		
55.9S 027.7W		
h ABOUT 126KM		
EUR	EP'	05 20 19.0
BOZ	EP'	05 20 23.0
COL	IP'	05 21 16.1
JUL 23		
EUR	EP	05 30 25.0
ALQ	EP	05 30 53.6
	E	31 02.5
JUL 23		
EUR	IP	05 33 19.4
	I(S)	34 41.5
JUL 23		
H-06 01 50.7		
53.1N 171.7E		
h ABOUT 33KM		
COL	IP	06 06 58.4
EUR	EP	06 10 40.5
JUL 23		
TUC	E(P)	07 07 29.8
JUL 23		
COL	EP	08 40 31.0
JUL 23		
COL	EP	08 46 37.0
JUL 23		
H-09 38 32.2		
12.3S 166.2E		
h ABOUT 37KM		
COL	E(P)	09 51 02.0
	EPP	51 14.8
JUL 23		
CSC	EP	10 31 27.0
JUL 23		
BCN	E(P)	10 34 15.0
	EL	34 38.0
JUL 23		
BOZ	EP	10 47 25.5
JUL 23		
FGU	E(P)	10 52 59.6
	EL	53 34.5
BOZ	EP	10 53 00.0
	IL	53 23.5
JUL 23		
COL	EP	10 58 14.0
JUL 23		
H-11 32 24.1		
35.2S 070.7W		
h ABOUT 108KM		
TUC	EP	11 44 05.3
ALQ	IP	11 44 08.6
BCN	EP	11 44 33.4
EUR	IP	11 44 50.6
BOZ	EP	11 45 05.2
JUL 23		
EUR	IP	11 32 24.2
BCN	EP	11 32 34.0
	EPP	32 39.5
ALQ	E(P)	11 32 34.2
JUL 23		
TUC	EP	12 18 42.0
	E	18 56.0
	ES	19 32.0
BCN	E(P)	12 19 07.7
	E	19 16.9
	E	19 38.5
	EL	20 45.5

Date and Station	Phase (GCT)
	h m s
EUR EP	12 20 08.8
EL	22 30.2
ALQ E(P)	12 20 17.0
JUL 23	
FGU EP	13 10 54.5
IL	11 29.8
BOZ IP	13 10 56.8
IL	11 29.0
EUR E(P)	13 11 40.9
JUL 23	
FGU E(P)	13 16 58.5
EL	17 32.8
BOZ EP	13 17 00.0
JUL 23	
H-13 17 58.3	
14.8S 167.4E	
h ABOUT 37KM	
EUR E(P)	13 30 53.0
COL EP	13 30 38.0
JUL 23	
COL EP	13 29 53.4
JUL 23	
EUR EP	13 33 38.9
JUL 23	
FGU EP	13 38 49.0
IL	39 29.9
BOZ IP	13 38 50.5
IL	39 23.0
EUR E(P)	13 39 39.4
JUL 23	
H-15 13 22.4	
8.8S 079.5W	
h ABOUT 43KM	
SJG EP	15 19 26.5
E	19 40.0
CSC EP	15 21 16.5
E	21 27.0
ALQ IP	15 22 18.7
E(▸P)	22 30.6
TUC EP	15 22 18.7
E▸P	22 31.5
BCN EP	15 22 56.5
EUR IP	15 23 19.3
I	23 33.5
BOZ IP	15 23 35.0
I	24 23.0
HHM EP	15 23 56.9
COL IP	15 26 12.7

Date and Station	Phase (GCT)
	h m s
JUL 23	
TUC E(P)	15 44 26.5
JUL 23	
H-17 00 00.0	
37.1N 116.0W	
h ABOUT 0KM	
BCN IP C	17 00 27.2
EUR IP C	17 00 40.3
GCA IP	17 00 57.3
SLC EP	17 01 17.0
TUC IP C	17 01 36.5
EL	03 41.0
UKI E(P)	17 01 47.5
ALQ IP	17 01 58.6
E	02 19.0
BOZ EP C	17 02 17.0
E	04 20.0
IL	05 42.0
BUT EP	17 02 19.2
IL	04 52.0
HHM EP	17 02 46.8
E	05 43.4
EL	06 05.4
RCD EP	17 02 53.0
E	05 32.0
EL	07 34.0
COL IP	17 06 42.2
KIP IP	17 07 34.7
SJG EP	17 08 38.0
EPCP	10 07.2
WAS EL	17 16 10.0
E	18 40.0
JUL 23	
COL EP	17 35 58.0
JUL 23	
COL EP	18 52 02.0
JUL 23	
TUC E(P)	19 09 37.0
JUL 23	
EUR E(P)	19 57 06.0
JUL 23	
H-20 10 29.0	
10.1S 041.1E	
h ABOUT 33KM	
BOZ EP'	20 29 52.5
E	30 05.0
EUR EP'	20 30 03.5
E	30 15.0
TUC EP'	20 30 08.0
E	30 23.0

Date and Station	Phase (GCT)
	h m s
JUL 23	
H-21 29 32.3	
26.1N 065.2E	
h ABOUT 19KM	
COL IP	21 42 12.0
JUL 23	
H-23 21 25.3	
39.1S 085.5W	
h ABOUT 33KM	
ALQ IP	23 33 11.8
EUR IP	23 33 50.0
BOZ EP	23 34 11.0
JUL 24	
BCN EP	00 31 33.0
IL	31 55.0
JUL 24	
BCN EP	00 35 38.7
IL	35 58.5
JUL 24	
BCN EP	00 37 37.0
IL	37 57.0
EUR I(P)	00 37 47.6
JUL 24	
BCN IP D	00 40 57.4
EL	41 18.0
EUR E(P)	00 41 04.0
GCA EP	00 41 36.0
JUL 24	
H-00 42 05.4	
37.1N 116.0W	
h ABOUT 0KM	
BCN IP	00 42 32.0
EUR I(P)	00 42 44.0
ALQ IP	00 43 00.5
I	44 34.0
TUC E(P)	00 43 41.2
EL	45 29.0
BOZ EP	00 44 23.0
EL	46 50.0
HHM E(P)	00 44 58.6
JUL 24	
H-03 47 42.6	
46.4N 153.6E	
h ABOUT 30KM	
COL EP	03 54 45.0
BOZ EP	03 58 01.0
EUR IP	03 58 09.8
E	58 27.5
TUC EP	03 58 59.5

Date and Station	Phase (GCT)
	h m s
ALQ EP	03 59 04.0
JUL 24	
COL IP	05 26 46.2
JUL 24	
GUA IP	05 28 11.0
E(S)	28 19.0
JUL 24	
COL EP	06 05 40.8
JUL 24	
COL IP	06 15 11.1
JUL 24	
H-07 37 25.4	
5.6S 150.7E	
h ABOUT 59KM	
COL EP	07 49 46.0
EUR IP	07 50 49.2
JUL 24	
GCA E(P)	08 30 15.7
EUR E(P)	08 30 17.6
JUL 24	
EUR EP	08 30 41.9
EL	31 18.7
BCN E(P)	08 30 47.2
ES	31 30.0
ALQ EP	08 31 16.6
E	31 38.5
JUL 24	
BOZ E(P)	09 41 24.0
IL	41 59.0
JUL 24	
H-09 47 28.9	
22.0S 170.1E	
h ABOUT 39KM	
COL EP	10 00 35.0
EUR E(P)	10 00 41.0
JUL 24	
COL E(P)	09 58 33.2
JUL 24	
H-10 47 26.7	
54.9N 162.8E	
h ABOUT 33KM	
COL EP	10 52 58.0
EUR EP	10 56 51.3
JUL 24	
H-11 45 07.5	
54.7N 162.9E	
h ABOUT 25KM	
COL IP	11 50 40.6
BOZ EP	11 54 18.5
EUR IP	11 54 33.9

Date and Station	Phase (GCT)
	h m s
RCD E(P)	11 54 55.4
BCN EP	11 54 56.5
ALQ E(P)	11 55 24.0
JUL 24	
ALQ EP	11 52 27.6
JUL 24	
H-12 16 08.9	
3.5S 078.1W	
h ABOUT 33KM	
SJG EP	12 21 27.0
ALQ EP	12 24 36.5
FUR FP	12 25 04.0
JUL 24	
H-12 21 58.2	
45.1N 112.9W	
h ABOUT 33KM	
BUT E(P)	12 22 11.2
I	22 16.6
EL	22 42.0
BOZ IP	12 22 15.0
IL	22 30.0
BZM E(P)	12 22 23.4
ES	22 44.3
HHM EP	12 22 50.8
E	23 00.8
EL	23 46.8
EUR E(P)	12 23 29.6
EL	24 59.2
JUL 24	
COL EP	12 22 49.1
JUL 24	
COL EP	12 47 36.0
JUL 24	
COL EP	15 27 15.0
JUL 24	
COL EP	17 43 40.0
JUL 24	
H-17 57 41.5	
36.5N 071.2E	
h ABOUT 225KM	
COL IP	18 08 56.3
JUL 24	
H-20 34 44.9	
16.8S 174.1W	
h ABOUT 42KM	
EUR EP	20 46 41.2
COL EP	20 47 12.0
BOZ EP	20 47 12.5

Date and Station	Phase (GCT)
	h m s
JUL 24	
H-21 38 58.0	
54.7N 162.9E	
h ABOUT 33KM	
COL EP	21 44 29.0
EUR IP	21 48 22.2
JUL 25	
COL EP	01 27 31.0
JUL 25	
SJG EP	01 56 35.0
JUL 25	
BOZ EP	02 33 36.0
JUL 25	
H-03 40 40.0	
02.0N 099.3E	
h ABOUT 97KM	
COL EP	03 54 07.0
HHM EP'	03 59 26.4
BOZ IP'	03 59 32.3
EPP	04 01 29.0
EUR IP'	03 59 37.6
EPP	04 01 43.0
RCD EP'	03 59 42.0
TUC EP'	03 59 42.5
E(SKP)	04 03 25.6
BCN EP'	03 59 44.5
ESKP	04 03 05.5
ALQ ESKP	04 03 25.6
CSC EP'	04 00 06.0
JUL 25	
H-03 43 31.4	
23.7N 121.5E	
h ABOUT 46KM	
COL EP	03 54 34.0
JUL 25	
COL EP	05 13 27.0
JUL 25	
H-07 10 50.3	
09.7S 160.2E	
h ABOUT 11KM	
COL IP	07 23 20.3
EUR IP	07 23 59.5
JUL 25	
H-08 29 11.3	
23.4S 179.8W	
h ABOUT 535KM	
TUC IP C	08 40 57.0
EUR IP C	08 40 57.5
ALQ EP	08 41 16.6

Date and Station	Phase (GCT)
	h m s
COL EP	08 41 19.0
JUL 25	
H-08 34 43.2	
42.1N 126.0W	
h ABOUT 33KM	
EUR IP	08 36 34.8
BCN EP	08 37 19.0
BOZ EP	08 37 20.0
TUC E(P)	08 38 22.3
ALQ EP	08 38 39.0
COL EP	08 40 14.2
JUL 25	
H-08 44 22.8	
41.8N 126.8W	
h ABOUT 33KM	
UKI EP	08 45 18.1
EUR IP	08 46 28.0
ES	47 59.5
IL	48 31.0
BUT EP	08 47 03.0
EL	49 32.0
BCN EP	08 47 03.8
EL	52 10.0
HHM EP	08 47 03.9
EL	49 53.9
SLC E(P)	08 47 07.3
BOZ EP	08 47 08.5
ES	49 24.0
EL	51 60.
GCA E(P)	08 47 27.0
TUC EP	08 48 07.0
ES	51 08.0
RCD EP	08 48 23.2
E	48 33.5
ALQ EP D	08 48 26.8
I	48 30.0
EL	52 16.0
COL EP	08 49 55.0
HON EL	08 58 25.0
CSC E(P)	08 51 25.0
WAS E(P)	08 51 30.0
ES	09 06 51.0
WSC E(P)	08 51 34.0
JUL 25	
COL EP	08 53 20.0
JUL 25	
KIP EP	09 25 19.3

Date and Station	Phase (GCT)
	h m s
JUL 25	
COL EP	12 49 51.0
JUL 25	
BCN EP	13 28 28.0
JUL 25	
H-13 33 06.2	
41.4N 146.7E	
h ABOUT 33KM	
BRW IP	13 40 46.3
COL IP	13 41 05.7
HON EL	13 53 50.0
UKI FP	13 43 49.7
HHM IP D	13 43 50.1
BUT IP	13 44 05.0
BOZ IP	13 44 09.0
E	44 42.0
ES	53 12.0
EUR IP	13 44 16.4
I	44 24.5
IPCP	46 41.0
SLC IP	13 44 26.9
BCN IP D	13 44 34.0
E	46 17.2
EPP	47 23.8
GCA IP	13 44 41.5
RCD IP D	13 44 41.5
TUC IP D	13 45 02.0
F	46 20.5
ALQ EP	13 45 06.5
JUL 25	
BOZ EP	14 12 18.0
JUL 25	
H-14 15 54.3	
18.5S 177.7W	
h ABOUT 531KM	
EUR EP	14 27 18.0
COL EP	14 27 39.9
BOZ EP	14 27 45.0
JUL 25	
BCN EP	15 54 48.0
EUR IP	15 54 50.0
JUL 25	
H-17 19 30.1	
24.6S 179.9W	
h ABOUT 472KM	
TUC EP	17 31 25.9
JUL 25	
COL EP	19 44 37.0

Date and Station	Phase (GCT)
	h m s
JUL 25	
H-19 52 43.0	
18.2N 068.1W	
h ABOUT 77KM	
SJG IP	19 53 14.0
IS	53 35.2
BOZ EP	20 00 53.0
JUL 25	
H-21 46 46.0	
51.5N 176.0E	
h ABOUT 39KM	
COL IP	21 51 46.5
BRW IP	21 51 51.3
I	52 33.2
ESCP	59 15.0
KIP IP	21 53 47.4
EL	22 03 40.0
HON ES	21 59 37.0
EL	22 02 15.0
HHM E(P)	21 54 41.0
EPCP	56 37.0
ES	22 01 20.0
EL	21 04 46.0
UKI EP	21 54 48.0
BUT EP	21 55 06.0
ESCP	22 00 35.0
BOZ EP	21 55 10.0
ES	22 02 00.0
EUR IP	21 55 19.3
SLC EP	21 55 34.2
BCN EP	21 55 42.5
EpP	55 54.2
E	57 13.2
E	58 16.0
GCA E(P)	21 55 51.5
RCD E(P)	21 55 56.0
EpP	56 07.0
E	22 05 40.0
TUC IP D	21 56 19.0
EpP	56 30.8
ES	22 04 03.0
ALQ IP	21 56 25.5
E	56 33.0
EpP	56 37.5
WSC E(P)	21 57 51.5
CSC EP	21 58 04.0
E(pP)	58 17.0
SJG EP	21 59 54.0
IpP	22 00 05.0

Date and Station	Phase (GCT)
	h m s
JUL 25	
H-21 51 48.7	
51.6N 176.0E	
h ABOUT 40KM	
COL E(P)	21 56 49.4
I	57 21.6
EUR IP	22 00 23.0
BCN EP	22 00 43.2
JUL 25	
H-22 15 23.3	
52.9N 173.6E	
h ABOUT 33KM	
COL E(P)	22 20 23.0
JUL 25	
KIP E(P)	22 32 05.4
JUL 25	
COL EP	23 42 39.0
JUL 25	
KIP E(P)	00 11 47.3
JUL 26	
H-00 38 36.6	
41.8N 069.6E	
h ABOUT 36KM	
COL E(P)	00 49 43.0
JUL 26	
BHP IP	01 57 16.0
IS	57 34.0
JUL 26	
H-03 32 37.4	
23.2S 179.6W	
h ABOUT 524KM	
TUC EP	03 44 23.3
JUL 26	
TUC E(P)	05 14 56.0
JUL 26	
COL EP	07 12 47.0
JUL 26	
H-07 53 11.7	
82.0N 079.2W	
h ABOUT 33KM	
COL EP	07 58 18.0
BOZ E(P)	08 00 30.0
JUL 26	
ALQ EP	08 18 19.0
JUL 26	
HHM E(P)	08 40 39.1
EL	41 34.1
BOZ E(P)	08 40 58.0
E	42 22.0
JUL 26	
BOZ E(P)	09 16 25.5

Date and Station	Phase (GCT)
	h m s
JUL 26	
H-10 41 44.3	
16.1S 172.6W	
h ABOUT 33KM	
TUC E(P)	10 53 27.5
BCN E(P)	10 53 27.5
EUR IP	10 53 32.1
ALQ IP	10 53 56.2
BOZ EP	10 54 04.0
COL IP	10 54 05.8
JUL 26	
H-10 43 29.0	
14.4S 166.7E	
h ABOUT 56KM	
COL IP	10 56 05.3
IpP	56 19.9
JUL 26	
COL EP	11 19 50.0
JUL 26	
BOZ EP	11 23 21.0
JUL 26	
HHM E(P)	12 02 22.1
EL	03 12.1
BOZ EP	12 02 26.5
EL	03 59.0
JUL 26	
H-13 06 10.3	
14.9N 090.9W	
h ABOUT 133KM	
TUC E(P)	13 11 25.0
JUL 26	
H-13 45 27.1	
50.4N 129.2W	
h ABOUT 33KM	
BOZ E(P)	13 48 29.9
EUR EP	13 48 51.0
COL E(P)	13 49 30.0
BCN EP	13 49 33.5
TUC E(P)	13 50 24.2
ALQ EP	13 50 26.0
JUL 26	
COL E(P)	14 21 05.7
JUL 26	
COL E(P)	15 09 16.0
JUL 26	
COL E(P)	15 11 41.8
JUL 26	
COL EP	15 15 26.0

Date and Station	Phase (GCT)
	h m s
JUL 26	
H-15 23 49.9	
16.0S 172.8W	
h ABOUT 53KM	
HON E(P)	15 31 26.0
ES	37 32.0
EL	40 44.0
KIP E(P)	15 31 28.1
TUC E(P)	15 35 34.7
E(S)	45 24.0
EUR EP	15 35 35.8
BCN E(P)	15 35 35.0
ALQ EP	15 35 58.8
HHM E(P)	15 36 08.0
BOZ EP	15 36 08.6
COL IP	15 36 09.6
JUL 26	
H-16 17 50.1	
29.9N 138.8E	
h ABOUT 402KM	
COL EP	16 26 51.0
HHM EP	16 29 10.6
FpP	30 40.0
BOZ EP	16 29 25.0
EpP	30 55.0
EUR IP	16 29 29.3
IpP	31 01.3
ALQ EP C	16 30 12.0
EpP	31 46.0
JUL 26	
H-16 45 15.8	
07.5S 155.9E	
h ABOUT 47KM	
COL EP	16 57 37.0
EUR EP	16 58 28.0
JUL 26	
H-16 50 11.1	
61.3N 151.9W	
h ABOUT 60KM	
COL FP	16 51 12.0
JUL 26	
H-18 23 00.7	
08.3N 038.9W	
h ABOUT 33KM	
TUC E(P)	18 34 16.5
BOZ EP	18 34 23.5
EUR IP	18 34 40.8
COL E(P)	18 36 06.0

Date and Station	Phase	(GCT) h m s
JUL 26		
COL	EP	18 46 03.0
JUL 26		
EUR	EP	20 40 22.8
	I	41 26.9
JUL 26		
KIP	IP	21 29 01.9
JUL 26		
CSC	EP	21 43 39.0
JUL 27		
COL	EP	00 23 08.0
EUR	IP	00 26 50.8
JUL 27		
COL	EP	01 02 37.0
JUL 27		
KIP	EP	02 58 42.3
JUL 27		
BOZ	EP	03 29 07.0
JUL 27		
H-03 52 35.3		
28.1N 111.7W		
h ABOUT 33KM		
TUC	E(P)	03 53 40.0
	E	53 55.5
ALQ	E(P)	03 54 35.0
EUR	E(P)	03 55 26.5
JUL 27		
TUC	E(P)	04 11 13.8
	E	12 05.4
JUL 27		
COL	IP	04 53 45.6
JUL 27		
EUR	EP	04 59 21.2
JUL 27		
H-05 00 18.7		
51.2N 179.2E		
h ABOUT 46KM		
COL	EP	05 05 08.0
EUR	IP	05 08 37.0
JUL 27		
COL	EP	07 40 38.0
BOZ	EP	07 44 06.0
EUR	EP	07 44 17.6
JUL 27		
H-07 54 35.5		
6.0N 126.0E		
h ABOUT 86KM		
COL	IP	08 06 51.0
EUR	EP'	08 12 54.5

Date and Station	Phase	(GCT) h m s
JUL 27		
COL	E(P)	08 19 28.5
JUL 27		
H-08 26 25.4		
34.3S 179.1W		
h ABOUT 6KM		
EUR	E(P)	08 39 51.8
JUL 27		
EUR	EP	10 06 54.3
JUL 27		
COL	EP	11 04 49.0
JUL 27		
H-11 20 27.5		
51.2N 177.6E		
h ABOUT 31KM		
COL	EP	11 25 25.0
HHM	EP	11 28 22.6
BOZ	IP	11 28 45.8
EUR	IP	11 28 55.5
	I	29 01.6
BCN	EP	11 29 17.5
	E(pP)	29 26.5
RCD	E(P)	11 29 30.0
TUC	E(P)	11 29 53.9
ALQ	IP	11 30 00.2
JUL 27		
H-12 16 21.5		
6.1N 127.5E		
h ABOUT 142KM		
COL	E(P)	12 28 28.0
JUL 27		
H-12 38 12.5		
55.7S 027.4W		
h ABOUT 33KM		
EUR	EP'	12 57 03.6
	EPP	58 30.6
BOZ	EP'	12 57 12.0
	EPP	58 42.0
COL	IP'	12 58 00.0
JUL 27		
H-13 08 43.5		
33.1N 115.9W		
h ABOUT 16KM		
BCN	E(P)	13 09 31.0
	E	09 39.2
	EL	10 41.8
TUC	E(P)	13 09 51.1
EUR	EP	13 10 19.2
	EL	12 04.3

Date and Station	Phase	(GCT) h m s
JUL 27		
BCN	E(P)	13 18 52.0
	E	19 00.0
	EL	19 42.0
JUL 27		
BCN	EP	13 32 01.8
	E	32 09.0
	IL	32 51.0
TUC	E(P)	13 32 37.4
EUR	EP	13 32 49.0
	EL	34 38.0
JUL 27		
COL	E(P)	13 33 26.3
JUL 27		
H-14 04 40.0		
33.2N 115.9W		
h ABOUT 16KM		
BCN	EP	14 05 27.2
	I	05 35.5
	IL	06 17.0
TUC	EP	14 05 47.4
GCA	EP	14 06 01.5
EUR	IP	14 06 15.2
	I	06 38.9
	IL	08 02.3
COL	EP	14 08 20.0
JUL 27		
EUR	EP	15 10 46.8
	I	12 28.0
JUL 27		
H-15 17 50.7		
33.1N 116.0W		
h ABOUT 16KM		
BCN	E(P)	15 18 38.6
	I	18 47.0
	IL	19 30.8
TUC	E(P)	15 18 58.7
GCA	E(P)	15 19 17.4
EUR	IP	15 19 26.5
	IL	21 17.0
ALQ	E(P)	15 19 43.6
	IL	22 10.5
JUL 27		
H-15 53 44.1		
06.8S 155.1E		
h ABOUT 85KM		
COL	IP	16 06 00.0
EUR	IP	16 06 53.0
SJG	EP'	16 13 02.5

Date and Station	Phase	(GCT) h m s
JUL 27		
H-16 00 12.3		
59.4N 137.0W		
h ABOUT 28KM		
SIT	EP	16 00 51.0
COL	EP	16 02 03.0
BOZ	E(P)	16 04 50.5
EUR	IP	16 05 26.8
JUL 27		
H-16 17 45.7		
23.8N 122.0E		
h ABOUT 59KM		
COL	EP	16 28 46.0
JUL 27		
BOZ	IP	16 42 11.0
	IL	42 20.0
JUL 27		
H-17 38 51.3		
4.9S 153.8E		
h ABOUT 37KM		
COL	EP	17 51 06.0
JUL 27		
H-17 46 15.3		
46.5N 154.6E		
h ABOUT 35KM		
COL	EP	17 53 13.0
BOZ	E(P)	17 56 23.0
EUR	E(P)	17 56 37.0
JUL 27		
COL	EP	18 42 10.0
JUL 27		
EUR	EP	19 05 54.5
JUL 27		
GCA	E(P)	20 24 56.7
	E(S)	25 42.0
EUR	EP	20 24 57.0
	EL	25 50.0
BOZ	E(P)	20 25 27.0
ALQ	EP	20 25 45.5
JUL 27		
TUC	E(P)	20 26 22.8
	E	28 09.0
JUL 27		
H-21 16 03.0		
40.3N 139.3E		
h ABOUT 199KM		
COL	IP	21 24 19.1
BOZ	IP	21 27 16.0
EUR	IP	21 27 25.5

Date and Station	Phase (GCT)
	h m s
TUC E(P)	21 28 07.7
ALQ IP	21 28 12.5
JUL 27	
HON EP	21 24 44.7
KIP EP	21 24 45.3
JUL 27	
H-21 42 09.2	
85.3N 015.5E	
h ABOUT 33KM	
COL E(P)	21 48 16.0
BOZ EP	21 50 42.5
EUR IP	21 51 31.4
TUC EP	21 52 18.3
JUL 27	
COL EP	22 48 32.0
JUL 27	
KIP E(P)	23 10 22.6
JUL 28	
EUR EP	00 43 54.9
JUL 28	
COL E(P)	01 13 03.0
JUL 28	
H-02 25 19.7	
24.8S 065.8W	
h ABOUT 144KM	
ALQ IP	02 36 22.6
TUC E(P)	02 36 23.9
EUR EP	02 37 11.9
JUL 28	
BOZ EP	04 12 06.5
EUR E(P)	04 12 11.9
JUL 28	
H-05 58 32.7	
36.4N 138.7E	
h ABOUT 149KM	
COL EP	06 07 20.0
BOZ EP	06 10 09.5
EUR IP	06 10 16.9
BCN IP	06 10 32.0
JUL 28	
RCD E(P)	08 25 45.0
JUL 28	
H-09 09 38.8	
30.4S 066.6W	
h ABOUT 50KM	
EUR EP	09 22 02.0
JUL 28	
COL EP	10 56 16.0
JUL 28	
H-11 24 10.6	
18.0S 167.7E	
h ABOUT 6KM	
EUR E(P)	11 37 18.0
JUL 28	
EUR EP	11 30 34.8
JUL 28	
H-12 02 04.3	
17.9S 178.2W	
h ABOUT 600KM	
COL IP	12 13 40.5
JUL 28	
H-13 20 14.5	
14.5N 090.3W	
h ABOUT 220KM	
BOZ EP	13 26 54.5
JUL 28	
H-13 55 05.0	
14.0N 091.9W	
h ABOUT 33KM	
BOZ EP	14 02 03.0
EUR EP	14 01 42.0
JUL 28	
H-14 26 20.0	
59.0N 153.8W	
h ABOUT 34KM	
COL IP	14 27 56.9
HHM EP	14 31 45.2
BOZ EP	14 32 14.0
EUR IP	14 32 35.9
EPCP	35 30.4
JUL 28	
COL EP	14 44 17.0
JUL 28	
TUC E(P)	15 22 43.8
E	23 30.2
JUL 28	
BUT EP	16 18 32.7
JUL 28	
EUR E(P)	17 15 30.7
JUL 28	
HHM E(P)	18 35 03.1
EL	36 12.1
JUL 28	
H-18 46 35.8	
42.2S 082.7W	
h ABOUT 33KM	
TUC E(P)	18 58 34.1
ALQ IP	18 58 42.4
BCN EP	18 59 01.0
EUR IP	18 59 18.2
BOZ EP	18 59 39.0
JUL 28	
SJG IP	20 56 29.0
IS	57 00.0
JUL 28	
HHM EP	22 04 34.6
JUL 28	
H-22 29 07.5	
2.2S 101.9E	
h ABOUT 135KM	
COL EPP	22 46 40.9
HHM IP'	22 47 52.6
BOZ IP'	22 47 58.2
IPP'	48 33.0
E	50 33.0
BCN EP'	22 48 00.0
IP'	48 08.8
ISKP	51 21.4
EUR IP'	22 48 03.0
EPP	50 20.5
ISKP	51 10.2
SLC ISKP	22 51 15.8
GCA ISKP	22 51 25.8
TUC EP'	22 48 06.0
ESKP	51 37.2
ALQ IP'	22 48 08.8
WSC EP'	22 48 24.5
EPP	51 39.0
CSC EP'	22 48 35.0
E	48 39.5
JUL 28	
COL EP	22 46 18.0
JUL 28	
HHM EP	22 57 34.6
JUL 28	
COL IP	22 58 54.0
E	59 19.5
JUL 28	
COL EP	23 02 21.0
JUL 28	
SJG IP	23 05 07.5
IS	05 25.5
JUL 28	
EUR IP	23 00 13.0
JUL 29	
SLC EP	00 45 02.0
EUR IP	00 45 45.2
IL	46 33.0
JUL 29	
HHM E(P)	01 26 54.1
IL	27 24.1
BUT E(P)	01 26 58.6
E	27 28.6
BOZ EP C	01 27 05.0
IL	27 53.5
JUL 29	
TUC E(P)	01 58 06.8
EUR IP	01 58 16.7
I	58 22.6
JUL 29	
H-03 05 02.1	
50.4N 077.9E	
h ABOUT 0KM	
COL EP	03 15 10.5
EUR IP	03 18 03.7
JUL 29	
COL IP	03 30 10.2
JUL 29	
ALQ EP	03 30 31.0
JUL 29	
H-04 02 42.2	
44.3N 114.7W	
h ABOUT 33KM	
BUT IP	04 03 18.6
BOZ IP C	04 03 22.5
ES	03 48.0
BZM EP	04 03 28.0
ES	04 06.0
HHM IP	04 03 44.1
EL	04 54.1
SLC E(P)	04 03 50.5
EUR EP	04 03 53.2
I(S)	04 48.5
IL	05 07.2
BCN E(P)	04 04 46.2
E	05 21.0
EL	06 58.0
COL EP	04 08 30.0
JUL 29	
H-05 26 57.4	
15.1S 173.0W	
h ABOUT 50KM	
TUC E(P)	05 38 40.3
EUR EP	05 38 47.9
ALQ EP	05 39 06.0
COL IP	05 39 13.0

Date and Station	Phase	(GCT)
		h m s
BOZ	EP	05 39 14.0
JUL 29		
COL	EP	06 38 26.0
EUR	IP	06 44 25.3
	I	44 36.1
JUL 29		
H-07 06 12.9		
11.7S 166.2E		
h ABOUT 80KM		
COL	EP	07 18 32.0
EUR	IP	07 18 58.3
JUL 29		
H-07 08 18.7		
51.4N 177.9E		
h ABOUT 33KM		
COL	EP	07 13 13.0
BOZ	IP	07 16 34.5
EUR	IP	07 16 44.5
	I	16 56.3
	IPCP	07 18 20.8
BCN	EP	07 17 07.3
TUC	E(P)	07 17 43.4
ALQ	EP	07 17 49.0
	E	18 08.0
JUL 29		
H-08 25 52.7		
43.2N 111.8W		
h ABOUT 33KM		
SLC	EP	08 26 28.5
	IS	27 01.7
BOZ	IP	08 26 30.0
BUT	EP	08 26 37.7
	EL	27 23.7
EUR	IP	08 27 06.2
	EL	28 26.3
RCD	E(P)	08 27 37.0
JUL 29		
H-08 29 21.2		
50.9N 171.4W		
h ABOUT 22KM		
COL	I(P)	08 33 34.5
SIT	IP	08 34 15.0
	IS	38 25.0
KIP	EP	08 35 45.5
	EPP	36 42.3
	ES	40 43.0
HON	EP	08 35 46.0
	EPP	36 42.3
	ES	40 57.0

Date and Station	Phase	(GCT)
		h m s
UKI	EP	08 36 18.5
	E(S)	42 03.0
HHM	IP D	08 36 26.6
BUT	EP D	08 36 42.1
	ES	42 46.7
BOZ	IP D	08 36 48.6
EUR	IP	08 36 55.8
	EL	45 17.5
SLC	IP	08 37 10.5
	I	37 16.7
BCN	EP	08 37 19.0
	EL	46 37.5
GCA	IP	08 37 29.8
RCD	IP D	08 37 36.8
	E	37 42.0
	ES	44 20.0
TUC	IP D	08 37 57.2
ALQ	IP	08 38 05.0
GUA	EP	08 38 23.0
CHK	EP	08 38 54.7
WAS	EP	08 39 52.0
	E	40 56.0
	ES	48 16.0
WSC	IP	08 39 49.5
	EPP	42 07.4
	ES	48 01.4
CSC	IP D	08 39 57.5
	E	40 19.5
	ES	48 44.0
PHI	EP	08 39 58.9
	IS	48 31.0
BHP	IP D	08 41 49.5
SJG	EP	08 41 57.5
	EPP	45 21.5
	ES	52 29.0
	E	52 49.0
	EL	09 04 10.0
JUL 29		
COL	EP	08 45 42.0
JUL 29		
H-08 51 44.8		
51.2N 171.6W		
h ABOUT 33KM		
COL	EP	08 55 57.5
BCN	E(P)	08 59 40.0
JUL 29		
H-08 54 01.4		
16.5N 060.1W		
h ABOUT 33KM		
SJG	IP	08 55 28.5

Date and Station	Phase	(GCT)
		h m s
BHP	IP D	08 58 34.5
RCD	EP	09 02 21.0
	E	02 34.0
TUC	EP	09 02 41.0
BCN	EP	09 03 11.5
JUL 29		
COL	EP	08 59 30.0
JUL 29		
BCN	E(P)	09 08 48.4
JUL 29		
COL	EP	09 17 55.0
JUL 29		
H-09 32 00.8		
51.1N 171.7W		
h ABOUT 33KM		
COL	EP	09 36 14.0
HHM	EP	09 39 05.1
EUR	IP	09 39 33.1
BCN	EP	09 39 57.5
TUC	EP	09 40 35.5
JUL 29		
H-09 40 15.3		
51.2N 171.4W		
h ABOUT 33KM		
COL	EP	09 44 27.5
JUL 29		
BOZ	EP	09 54 27.9
JUL 29		
H-10 13 52.7		
51.1N 171.3W		
h ABOUT 33KM		
COL	EP	10 18 06.0
BOZ	EP	10 21 18.4
	E	21 29.6
EUR	IP	10 21 25.0
JUL 29		
H-11 08 31.3		
50.9N 171.5W		
h ABOUT 33KM		
COL	E(P)	11 12 44.0
HHM	EP	11 15 34.6
BOZ	IP	11 15 57.0
	EPCP	18 06.5
EUR	IP	11 16 04.2
	EPCP	18 09.0
BCN	EP	11 16 26.5
TUC	EP	11 17 05.6

Date and Station	Phase	(GCT)
		h m s
ALQ	IP	11 17 13.7
JUL 29		
H-11 13 38.4		
51.4N 171.5W		
h ABOUT 33KM		
COL	EP	11 17 50.0
BOZ	EP	11 21 04.2
EUR	IP	11 21 10.6
JUL 29		
H-11 19 50.3		
51.3N 179.1W		
h ABOUT 33KM		
COL	EP	11 24 34.0
BOZ	IP	11 27 52.6
EUR	IP	11 28 01.2
BCN	EP	11 28 23.8
JUL 29		
H-11 33 22.4		
30.0N 138.7E		
h ABOUT 462KM		
COL	EP	11 42 19.0
HHM	EP	11 44 37.0
BOZ	IP	11 44 51.3
EUR	IP	11 44 54.4
ALQ	IP	11 45 37.6
JUL 29		
BOZ	E(P)	12 18 04.4
EUR	EP	12 18 13.8
JUL 29		
H-12 20 22.1		
50.7N 171.6W		
h ABOUT 33KM		
COL	EP	12 24 36.4
	ES	28 24.0
	EL	29 31.0
HHM	EP	12 27 26.6
BOZ	EP	12 27 49.0
EUR	IP	12 27 56.0
	EPP	29 38.5
SLC	EP	12 28 11.3
BCN	EP	12 28 19.0
TUC	E(P)	12 28 57.9
ALQ	IP	12 29 05.2
JUL 29		
H-12 55 31.3		
51.3N 171.4W		
h ABOUT 33KM		

Date and Station	Phase (GCT)
	h m s
COL EP	12 59 43.0
EUR EP	13 03 02.5
JUL 29	
H-13 08 11.4	
51.4N 171.7W	
h ABOUT 33KM	
COL EP	13 12 23.0
BOZ EP	13 15 37.8
EPP	15 48.0
EUR EP	13 15 44.4
IPP	15 55.5
JUL 29	
H-13 15 53.2	
51.2N 171.6W	
h ABOUT 33KM	
COL EP	13 20 07.0
BOZ EP	13 23 20.2
EUR IP	13 23 26.8
TUC E(P)	13 24 28.6
ALQ IP	13 24 36.2
JUL 29	
H-13 54 22.4	
51.4N 171.6W	
h ABOUT 33KM	
COL EP	13 58 34.6
BOZ E(P)	14 01 45.0
EUR EP	14 01 55.2
JUL 29	
H-14 15 51.8	
51.1N 171.5W	
h ABOUT 33KM	
COL IP	14 20 05.8
BOZ EP	14 23 18.3
JUL 29	
EUR IP	14 22 35.0
IL	22 56.8
JUL 29	
BOZ EP	14 25 32.0
EUR EP	14 25 39.3
JUL 29	
COL EP	14 36 17.0
JUL 29	
H-15 08 32.6	
51.0N 171.3W	
h ABOUT 3KM	
COL EP	15 12 49.0
I	13 23.4
EL	18 12.0
HHM IP	15 15 39.8

Date and Station	Phase (GCT)
	h m s
BOZ IP	15 16 02.5
IPCP	18 12.0
EUR IP	15 16 09.0
IPCP	18 15.0
SLC EP	15 16 24.2
BCN IP D	15 16 32.5
TUC IP D	15 17 11.0
ALQ IP	15 17 18.4
E	17 32.5
SJG E(P)	15 21 12.5
JUL 29	
H-15 10 11.4	
50.9N 171.2W	
h ABOUT 33KM	
COL I(P)	15 14 22.9
HHM EP	15 17 13.9
BOZ IP	15 17 36.5
EUR IP	15 17 43.0
IPCP	19 49.1
BCN EP	15 18 06.0
TUC EP	15 18 44.9
ALQ IP	15 18 52.0
JUL 29	
COL EP	15 10 37.0
BOZ EP	15 13 51.2
EUR EP	15 13 58.2
JUL 29	
H-15 43 49.8	
06.2S 148.9E	
h ABOUT 53KM	
COL EP	15 56 19.0
JUL 29	
H-15 48 48.5	
51.3N 171.4W	
h ABOUT 33KM	
COL EP	15 53 01.0
BOZ IP	15 56 13.8
E	56 24.8
EUR E(P)	15 56 20.5
JUL 29	
H-16 08 32.7	
51.2N 171.5W	
h ABOUT 33KM	
COL EP	16 12 46.0
BOZ EP	16 15 58.5
E	16 09.5
EUR EP	16 16 05.0

Date and Station	Phase (GCT)
	h m s
JUL 29	
H-16 59 31.4	
51.1N 171.4W	
h ABOUT 40KM	
COL E(P)	17 03 42.0
BOZ EP	17 06 56.0
EUR IP	17 07 03.0
JUL 29	
COL EP	17 01 50.0
JUL 29	
COL EP	17 13 39.0
BOZ E(P)	17 14 45.0
JUL 29	
BOZ EP	17 16 52.0
JUL 29	
COL EP	17 40 46.0
JUL 29	
H-18 15 51.0	
51.2N 171.6W	
h ABOUT 33KM	
COL EP	18 20 03.7
BOZ EP	18 23 17.5
EUR IP	18 23 24.3
TUC EP	18 24 25.0
JUL 29	
BOZ EP	19 16 17.0
EUR E(P)	19 16 23.5
JUL 29	
EUR I(P)	20 22 44.1
JUL 29	
BOZ E(P)	21 27 56.5
JUL 29	
COL EP	21 30 48.0
JUL 29	
BOZ EP	21 47 55.0
JUL 29	
EUR E(P)	23 35 44.0
JUL 30	
ALQ E(P)	01 02 29.6
JUL 30	
H-02 11 39.0	
22.8S 063.7W	
h ABOUT 524KM	
ALQ IP	02 22 01.0
TUC E(P)	02 22 04.8
EUR IP	02 22 50.3
EPP	24 45.2

Date and Station	Phase (GCT)
	h m s
JUL 30	
SJG EP	02 24 00.6
JUL 30	
H-03 01 32.0	
33.5N 119.7W	
h ABOUT 16KM	
BCN E(P)	03 02 45.0
E	02 58.5
EL	04 06.5
EUR EP	03 03 11.2
EL	04 47.2
JUL 30	
H-03 12 05.4	
20.7S 175.7W	
h ABOUT 138KM	
COL IP	03 24 39.8
JUL 30	
COL EP	03 15 36.0
JUL 30	
ALQ EP	03 25 09.0
JUL 30	
KIP IP	03 41 22.8
JUL 30	
COL EP	04 41 53.0
JUL 30	
COL IP	05 11 52.2
JUL 30	
H-05 45 16.1	
18.1S 070.8W	
h ABOUT 72KM	
BHP IP	05 51 06.0
SJG IP C	05 52 11.1
IS	57 42.0
I(SCP)	58 13.5
CSC IP C	05 54 24.5
E	54 31.0
EPP	54 42.0
ESP	54 51.0
ES	06 01 46.0
WSC IP	05 54 57.0
ALQ IP	05 55 35.4
E	55 45.0
EPP	55 53.4
TUC IP	05 55 38.7
EPP	55 56.5
BCN EP	05 56 11.0
EPP	56 30.2
ISP	56 38.0
RCD EP	05 56 13.3
E	56 20.0
EUR IP	05 56 30.5
IPP	56 48.8
ISP	56 57.2

Date and Station	Phase	(GCT) h m s
BOZ	IP C	05 56 42.8
	I▷P	57 02.0
BUT	EP	05 56 47.0
	I▷P	57 06.0
HHM	EP	05 57 01.5
	I▷P	57 20.0
	IsP	57 27.5
COL	EP	05 58 58.0
	E▷P	59 17.2
	EsP	59 25.2
GUA	IP'	06 04 50.0
JUL 30		
JUL 30		
H-06 33 30.6		
12.0N 088.5W		
h ABOUT 33KM		
BOZ	EP	06 40 55.0
JUL 30		
H-07 20 09.8		
6.8N 072.9W		
h ABOUT 170KM		
BHP	I(P)	07 21 42.0
	IS	22 55.0
SJG	IP C	07 23 06.7
	I	24 28.0
	IS	25 23.3
CSC	IP C	07 25 48.0
	ES	30 24.0
WSC	IP	07 26 26.5
	I	32 40.0
ALQ	IP	07 27 43.4
	E	28 18.2
TUC	IP D	07 27 57.6
	E	33 21.4
	ES	34 14.9
RCD	IP C	07 28 14.1
	E	28 24.0
BCN	IP	07 28 34.8
	I	28 40.5
	E	29 54.0
	ESCP	33 40.5
	E▷SCP	33 47.4
SLC	IP	07 28 36.6
EUR	IP	07 28 53.0
	ESCP	33 50.8
	ES	35 56.6
BOZ	IP C	07 28 56.8
	IsP	30 00.0
BUT	IP	07 29 02.0
HHM	IP	07 29 18.2
	E(SCP)	34 04.5
SIT	EP	07 31 02.4
COL	IP	07 31 47.5
	I(PP)	34 44.8
BRW	EP	07 32 10.0
JUL 30		
KIP	EP	07 32 18.1
JUL 30		
BOZ	EP	07 58 07.0
JUL 30		
H-08 05 28.8		
24.6S 179.9E		
h ABOUT 485KM		
TUC	E(P)	08 17 24.2
BOZ	I(P)	08 17 38.5
ALQ	E(P)	08 17 42.4
JUL 30		
H-08 10 19.4		
52.3N 171.0W		
h ABOUT 53KM		
COL	EP	08 14 19.0
HHM	EP	08 17 15.5
	EPCP	19 42.5
EUR	IP	08 17 46.8
	EPCP	19 53.7
BCN	EP	08 18 10.1
TUC	E(P)	08 18 47.1
ALQ	EP	08 18 55.0
JUL 30		
BOZ	EP	08 23 35.4
EUR	EP	08 23 38.5
JUL 30		
H-08 31 17.5		
51.2N 171.4W		
h ABOUT 33KM		
COL	IP	08 35 30.3
BOZ	EP	08 38 43.6
	E▷P	38 54.0
EUR	IP	08 38 49.5
	EPCP	40 54.3
JUL 30		
COL	EP	09 01 22.0
JUL 30		
COL	EP	10 18 21.0
JUL 30		
H-10 18 46.0		
44.5N 149.7E		
h ABOUT 45KM		
COL	IP	10 26 13.0
BOZ	EP	10 29 23.5
EUR	IP	10 29 33.1
JUL 30		
COL	IP	10 40 50.5
BOZ	E(P)	10 44 11.0
EUR	EP	10 44 32.6
JUL 30		
BCN	E(P)	11 33 41.0
	EL	34 20.5
JUL 30		
H-12 11 07.0		
15.1S 070.8W		
h ABOUT 192KM		
ALQ	E(P)	12 20 57.0
BOZ	EP	12 22 05.0
JUL 30		
COL	EP	12 12 45.0
JUL 30		
COL	EP	14 25 26.0
JUL 30		
BCN	IP C	15 06 42.8
	IS	06 45.0
JUL 30		
TUC	E(P)	15 27 22.0
ALQ	EP	15 27 30.0
EUR	E(P)	15 29 12.5
JUL 30		
HHM	EP	16 04 45.7
JUL 30		
H-16 32 36.9		
01.5S 078.1W		
h ABOUT 167KM		
ALQ	IP	16 40 38.0
	E	41 45.2
TUC	EP	16 40 43.4
EUR	IP	16 41 43.2
	E(▷P)	42 23.5
BOZ	IP	16 41 56.2
	E(▷P)	42 34.0
COL	IP	16 44 44.2
JUL 30		
H-16 52 50.6		
51.2N 171.4W		
h ABOUT 33KM		
COL	IP	16 57 03.1
BRW	EP	16 57 35.7
EUR	EP	17 00 22.9
JUL 30		
EUR	EP	18 15 00.0
JUL 30		
BOZ	E(P)	18 29 03.0
JUL 30		
H-18 29 47.0		
54.8N 161.4E		
h ABOUT 33KM		
EUR	EP	18 39 17.5
JUL 30		
H-18 58 58.7		
24.4S 067.7W		
h ABOUT 140KM		
CSC	EP	19 08 48.0
	E(▷P)	09 25.0
ALQ	IP	19 09 54.5
	E▷P	10 29.6
TUC	IP D	19 09 55.8
	I▷P	10 32.0
BCN	EP	19 10 25.5
	E▷P	11 05.7
RCD	EP	19 10 29.0
EUR	IP	19 10 44.0
	I▷P	11 23.2
	EsP	11 36.5
	EPP	13 47.0
BOZ	IP D	19 10 55.0
	I▷P	11 34.5
BUT	IP	19 11 00.1
HHM	IP	19 11 12.6
COL	EP'	19 17 10.0
BRW	EP'	19 17 19.1
	E▷P'	18 59.8
GUA	IP'	19 18 26.0
JUL 30		
H-19 07 02.9		
27.9N 57.0E		
h ABOUT 33KM		
BRW	E(P)	19 18 59.8
JUL 30		
EUR	EP	19 37 04.0
ALQ	EP	19 37 56.5
TUC	EP	19 37 58.2
JUL 30		
COL	IP	20 20 39.8
BRW	E(P)	20 20 48.3
JUL 30		
KIP	E(P)	20 55 44.0
HON	EP	20 55 45.5

Date and Station	Phase (GCT)
	h m s
JUL 30	
H-21 07 41.7	
51.7N 171.8W	
h ABOUT 20KM	
COL EP	21 11 53.0
BRW IP	21 12 23.8
I	12 38.2
BOZ EP	21 15 09.7
I	15 21.0
EUR IP	21 15 17.2
TUC EP	21 16 19.1
JUL 30	
H-21 12 03.0	
51.3N 171.6W	
h ABOUT 36KM	
COL IP	21 16 15.0
BRW EP	21 16 47.5
I	17 00.2
BOZ FP	21 19 28.6
EUR IP	21 19 35.5
TUC EP	21 20 36.8
JUL 30	
ALQ EP	22 30 44.5
JUL 31	
HON IP	01 28 45.6
ES	29 50.5
KIP FP	01 28 46.3
ES	28 51.5
JUL 31	
GUA EP	03 36 53.7
ES	37 02.1
JUL 31	
H-04 04 05.7	
18.6N 107.9W	
h ABOUT 33KM	
EUR IP	04 09 00.0
JUL 31	
HHM EP	04 23 05.5
I	23 11.9
EL	23 58.0
JUL 31	
COL IP	04 47 58.0
JUL 31	
BOZ IP	05 22 15.5
BUT IP	05 22 27.8
IL	22 36.1
EUR EP	05 24 16.4
JUL 31	
H-06 05 02.7	
18.1S 178.4W	
h ABOUT 564KM	

Date and Station	Phase (GCT)
	h m s
EUR IP	06 16 24.3
TUC EP	06 16 25.5
JUL 31	
BOZ IP C	06 30 25.0
BUT E(P)	06 30 36.1
I	30 46.1
JUL 31	
H-06 52 19.0	
6.0S 148.6E	
h ABOUT 71KM	
COL IP	07 04 44.4
JUL 31	
EUR EP	06 55 45.0
I	56 02.5
IL	57 07.2
BCN E(P)	06 55 57.5
JUL 31	
H-06 59 23.4	
10.2S 123.7E	
h ABOUT 11KM	
EUR IP'	07 18 17.5
BOZ EP'	07 18 20.9
ALQ EP'	07 18 34.5
E(PP)	20 38.0
WSC EP'	07 19 05.8
E	19 20.4
JUL 31	
H-07 17 48.2	
18.9N 108.0W	
h ABOUT 33KM	
TUC EP	07 21 01.0
BCN EP	07 22 00.0
EUR IP	07 22 38.7
SLC EP	07 22 42.9
RCD E(P)	07 23 15.5
BOZ IP	07 23 27.9
JUL 31	
H-07 36 30.6	
36.1N 142.3E	
h ABOUT 35KM	
COL EP	07 45 19.0
HHM EP	07 47 52.4
BUT EP	07 48 05.3
BOZ IP D	07 48 09.5
IpP	48 20.5
E(S)	58 46.0
EUR IP	07 48 16.2
IpP	48 27.7

Date and Station	Phase (GCT)
	h m s
SLC EP	07 48 26.6
BCN EP	07 48 31.0
RCD E(P)	07 48 43.0
EpP	48 54.0
TUC EP	07 48 57.0
ALQ EP	07 49 02.5
JUL 31	
COL EP	08 44 57.0
BOZ EP	08 48 09.7
EUR IP	08 48 16.1
ALQ IP	08 50 40.0
BCN EP	08 51 01.8
JUL 31	
BCN EP	08 57 54.5
ES	58 14.5
JUL 31	
H-09 05 21.9	
18.7N 107.5W	
h ABOUT 33KM	
BCN E(P)	09 09 35.8
EUR IP	09 10 15.3
JUL 31	
COL E(P)	10 03 09.8
JUL 31	
H-11 16 03.5	
56.2N 153.4W	
h ABOUT 20KM	
COL IP	11 18 13.1
BRW IP	11 19 44.7
HHM EP	11 21 27.4
BOZ EP	11 21 53.5
E	23 09.0
EUR IP	11 22 11.2
I(pP)	22 20.7
E(PCP)	25 13.5
EpPCP	25 23.6
BCN EP	11 22 38.8
RCD EP	11 22 44.8
E	22 55.0
TUC EP	11 23 21.7
ALQ EP	11 23 22.4
E	25 47.0
JUL 31	
BOZ EP	11 29 19.0
E	29 23.5
ES	29 50.0
EUR EP	11 30 01.1
EL	31 09.5

Date and Station	Phase (GCT)
	h m s
JUL 31	
COL E(P)	11 40 35.9
JUL 31	
H-11 47 03.2	
19.9S 173.3W	
h ABOUT 58KM	
TUC EP	11 59 04.0
EUR E(P)	11 59 07.5
BOZ EP	11 59 38.0
COL IP	11 59 41.2
JUL 31	
COL EP	11 49 27.5
JUL 31	
H-11 50 16.4	
19.1N 107.9W	
h ABOUT 33KM	
TUC EP	11 53 26.5
ALQ EP	11 54 02.8
BCN EP	11 54 26.0
EUR IP	11 55 05.0
BOZ EP	11 55 53.0
JUL 31	
KIP E(P)	11 59 24.5
JUL 31	
COL EP	12 05 03.0
JUL 31	
COL EP	12 33 16.2
JUL 31	
H-13 41 42.8	
39.7N 104.9W	
h ABOUT 5KM	
RCD E(P)	13 43 07.0
E	44 03.5
BOZ E(P)	13 43 52.0
ALQ E(P)	13 43 14.5
JUL 31	
H-14 26 26.3	
26.2S 179.8E	
h ABOUT 462KM	
BCN FP	14 38 25.2
TUC IP D	14 38 28.6
EUR IP	14 38 30.8
COL IP	14 38 54.0
JUL 31	
TUC EP	14 40 14.8
BOZ FP	14 40 51.0

Date and Station	Phase (GCT)
	h m s
JUL 31	
TUC E(P)	14 56 10.1
JUL 31	
COL EP	15 14 25.0
JUL 31	
H-15 20 40.8	
20.9S 174.0W	
h ABOUT 43KM	
BCN E(P)	15 32 45.8
TUC E(P)	15 32 49.5
EUR E(P)	15 32 53.5
ALQ IP	15 33 12.5
BOZ EP	15 33 23.0
COL IP	15 33 25.4
JUL 31	
EUR EP	15 23 33.5
JUL 31	
H-15 44 46.2	
19.2S 177.5W	
h ABOUT 568KM	
EUR IP	15 56 08.9
COL IP	15 56 30.4
EPP	58 34.0
BOZ EP	15 56 37.0
JUL 31	
H-16 06 27.5	
28.4N 111.7W	
h ABOUT 33KM	
TUC EP	16 07 27.7
BCN EP	16 08 24.3
EL	10 51.5
ALQ IP	16 08 25.5
EUR IP	16 09 14.5
EL	12 37.2
BOZ E(P)	16 10 31.0
JUL 31	
H-16 36 54.7	
32.7N 093.3E	
h ABOUT 34KM	
BRW EP	16 47 40.2
COL IP	16 48 15.0
JUL 31	
H-17 07 50.1	
32.9N 093.3E	
h ABOUT 15KM	
BRW E(P)	17 18 33.5
COL IP	17 19 12.2

Date and Station	Phase (GCT)
	h m s
JUL 31	
COL EP	17 31 11.3
JUL 31	
H-18 46 35.8	
8.0S 107.2E	
h ABOUT 90KM	
BOZ EP'	19 05 38.0
E	05 53.0
JUL 31	
EUR EP	18 49 08.8
JUL 31	
H-19 01 09.0	
32.8N 093.2E	
h ABOUT 34KM	
COL EP	19 12 29.0
JUL 31	
ALQ E(P)	19 05 36.0
JUL 31	
H-19 56 34.6	
31.9N 140.9E	
h ABOUT 85KM	
BRW IP	20 05 32.8
COL EP	20 05 49.0
HHM EP	20 08 14.4
BOZ IP	20 08 30.0
EUR IP	20 08 33.0
JUL 31	
BOZ E(P)	20 21 08.5
E	21 17.5
JUL 31	
H-20 33 05.9	
12.3S 166.0E	
h ABOUT 40KM	
COL EP	20 45 35.0
EUR E(P)	20 45 58.2
JUL 31	
H-21 05 33.5	
19.1N 108.1W	
h ABOUT 33KM	
TUC EP	21 08 43.7
ALQ EP	21 09 20.5
BCN EP	21 09 42.6
EUR IP	21 10 22.0
BOZ IP	21 11 11.0
JUL 31	
HHM EP	21 14 46.6
JUL 31	
HON E(P)	21 24 25.8
KIP E(P)	21 24 39.4

Date and Station	Phase (GCT)
	h m s
JUL 31	
H-21 44 46.8	
32.7N 093.2E	
h ABOUT 18KM	
COL IP	21 56 09.6
JUL 31	
COL IP	22 15 05.0
JUL 31	
BOZ E(P)	22 20 00.0

Date and Station	Phase (GCT)
	h m s