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A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

SEISMOLOGICAL BULLETIN

JANUARY 1967

MSI 313

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

1969

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National Oceanic and Atmospheric Administration

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SEISMOLOGICAL BULLETIN

1967

SEISMOGRAPH STATIONS

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

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

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

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

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

STATION INSTRUMENTATION

STATION CODE	TYPE	SEISMOMETER COMP.	T_o	GALVO. T_g	RECORDER SPEED mm/min	TYPE OF RECORDING	MAGN.*	REMARKS
ADK	Benioff 1051	Z	1.0	0.2	60	Helicorder	11000	Also recording on Dynograph
					15	Film		
					.3 in/sec	Magnetic Tape		
	Benioff 1101	N,E	1.0	0.2	60	Helicorder	11000	Also recording on Dynograph
					15	Film		
					.3 in/sec	Magnetic Tape		
	Benioff 4681A	Z	1.0	0.2	.3 in/sec	Magnetic Tape		2 Seismometers SE and NE of Main Vault
	Sprengnether	Z,N,E	15.0	30.0	3	Film	2000[2]	
	Strong-Motion SS-203	N	0.8		15	Film	4[2]	
	Strong-Motion SS-202	N	0.8		15	Film	100[2]	
	Wood-Anderson TS-220	N,W	0.8		15	Film	2800[2]	
ALQ	Benioff 1051	Z	1.0	0.75	60	Photo Paper	400000	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	400000	
	Sprengnether	A,N,E	15.0	100.0	15	Photo Paper	3000	
	Wood-Anderson TS-220	N	0.8		60	Photo Paper	2610	
	Wood-Anderson TS-220	E	0.8		60	Photo Paper	2670	
BAH	Benioff 4681A	Z	1.0	0.33	30	Develocorder	10000[1]	Dynograph Recording Optional
BHP	Benioff 1051	Z	1.0	0.75	60	Photo Paper	12500	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	12500	
	Sprengnether	Z,N,E	15.0	100.0	15	Photo Paper	750	
BRW	Wilson-Lamison	Z	1.1	0.5	60	Photo Paper	75000	Magn. varies with background noise level
BIO	Geotech S-13	Z	1.0	0.2	60	Helicorder	50000	Recorded at SIT and PMR
BMO	Johnson-Matheson 6480	Z1-10	1.25	0.33	30	Film	750000[1]	Array of 11 Vertical Seismometers
		Z3			60	Helicorder	750000	Station Coordinates at Z3
		ZHf5	0.166	0.10	30	Film		
	Benioff 1051	Z	1.0	.0625	30	Film	25000[1]	
	Johnson-Matheson 7515	N,E	1.25	0.33	3	Film	360000[1]	
	Melton 10012	Z	2.42	0.64	3	Film	50000[1]	
	Geotech 8700B	N,E	2.5	0.64	3	Film	50000[1]	
		E			.3 in/min	Magnetic Tape		
	Geotech S-11	Z	20.0	110.0	3	Film	8500[1] at 25 sec.	
	Geotech 8700A	N	20.0	110.0	3	Film	3200[1] at 25 sec.	
	Geotech 8700A	E	20.0	110.0	3	Film	4000[1] at 25 sec.	
					10	Helicorder	4000	
BCN	Benioff MC	Z	1.3	0.5	60	Photo Paper	125000	
	Wood-Anderson	N,E	0.8		15	Film	2800[2]	
BZM	Wilson-Lamison	Z	1.5	1.5	60	Photo Paper	12000	
	Sprengnether	N,E	11.0	8.0	30	Photo Paper	8000 at 8 sec.	

STATION CODE	SEISMOMETER TYPE	COMP.	T_o	GALVO. T_g	RECORDER SPEED mm/min	TYPE OF RECORDING	MAGN.*	REMARKS
BOZ	Benioff 1051	Z	1.0	0.75	60	Photo Paper	400000	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	400000	
	Sprengnether	Z,N,E	15.0	100.0	15	Photo Paper	3000	
BUT	Benioff MC	Z	1.3	1.0	60	Photo Paper	50000	
	Wilson-Lamison	N,E	8.0	3.8	30	Photo Paper	12000 at 8 sec.	
	Wood-Anderson	S	8.0		15	Photo Paper	316	Henson Type
CED	Benioff MC	Z	1.0	0.2	15	Film	30000[2]	Station closed July 1, 1967
	Benioff MC	N	1.0	0.2	15	Film	28000[2]	
	Benioff MC	E	1.0	0.2	15	Film	48000[2]	
COL	Benioff 1051	Z	1.0	0.75	60	Photo Paper	100000	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	100000	
	Sprengnether	Z,N,E	15.0	100.0	15	Photo Paper	1500	
	Benioff MC	Z	1.0	0.52	60	Photo Paper	350000 at 0.5 sec.	
CMO	Wilson-Lamison	Z	1.1	1.1	60	Pen & Ink	30000 at 0.7 sec.	
	Wenner	N	8.2	11.8	15	Photo Paper	300 at 20 sec.	
						Pen & Ink	300 at 20 sec.	
	Strong-Motion SS-203	W	0.8		15	Film	4[2]	
	Strong-Motion SS-202	W	0.6		15	Film	100[2]	
	Wood-Anderson TS-220	N,W	0.8		15	Film	2800[2]	
CSC	Wilson-Lamison	Z	1.1	1.6	60	Photo Paper	24000	
	Wilson-Lamison	N,E	8.0	4.1	30	Photo Paper	13000 at 8 sec.	
CPO	Johnson-Matheson 6480	Z1-9	1.25	0.33	30	Film	400000[1]	Array of 10 Vertical Seismomete
		Z-8			60	Helicorder	100000	Station Coordinates at Z8
		Z10			30	Film	40000[1]	
	Benioff 1051	Z	1.0	0.083	30	Film	5000[1]	
	Johnson-Matheson 7515	N,E	1.25	0.33	30	Film	2200[1]	
	Geotech S-11	Z	20.0	110.0	3	Film	2500[1] at 25 sec.	
	Geotech 8700A	N	20.0	110.0	3	Film	2500[1] at 25 sec.	
	Geotech 8700A	E	20.0	110.0	3	Film	2500[1] at 25 sec.	
					10	Helicorder	1000	
EUR	Benioff MC	Z	1.3	0.5	60	Photo Paper	290000	
FGU	Benioff 4681A	Z	1.0	0.2	15	Film	144000[2]	
	Benioff 4681A	Z	1.0	0.2	15	Film	2400[2]	
	Benioff 4681A	N,E	1.0	0.2	15	Film	80000[2]	
BAH	Benioff 4681A	Z	1.0	0.33	30	Develocorder	10000[1]	Dynograph Recording Optional
GIL	Geotech S-13	Z	1.0	0.2	60	Helicorder	50000	Recorded at PMR
					30	Develocorder	100000[1]	
GCA	Benioff 4681A	Z	1.0	0.2	15	Film	48000[2]	
	Benioff 4681A	Z	1.0	0.2	15	Film	24000[2]	
	Benioff 4681A	N,E	1.0	0.2	15	Film	80000[2]	

STATION CODE	TYPE	SEISMOMETER COMP.	T_o	GALVO. T_g	RECORDER SPEED mm/min	TYPE OF RECORDING	MAGN.*	REMARKS
GUA	Benioff 1051	Z	1.0	0.75	60	Photo Paper	6250	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	6250	
	Sprengnether	Z,N,E	15.0	100.0	15	Photo Paper	750	
	Sprengnether	N	6.5	6.5	60	Photo Paper		
					30	Pen & Ink		
HON	Wilson-Lamison	Z	1.0	1.0	60	Develocorder	6000	
	Milne-Shaw	N	12.0		30	Film	150[1]	
						Pen & Ink	at 12 sec.	
	Milne-Shaw	W	12.0		30	Film	150[1] at 12 sec.	
	UED SV-280	Z	30.0	100.0	15	Photo Paper		
	UED SH-290	N,E	30.0	100.0	15	Photo Paper		
HHM	Benioff VR	Z	1.05	0.5	60	Photo Paper	188000	
				70.0	30	Photo Paper	25000	
	Wilson-Lamison	N,E	3.5	4.0	30	Photo Paper	10000 at 4 sec.	
KDC	Benioff 4681A	Z	1.0	0.5	60	Helicorder	50000	Recorded at PMR
					30	Develocorder	50000[1]	
KIP	Benioff 1051	Z	1.0	0.75	60	Photo Paper	12500	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	12500	
	Sprengnether	Z,N,E	15.0	100.00	15	Photo Paper	750	
KPH	Benioff 4681A	Z	1.0	0.33	30	Develocorder	10000[1]	Recorded at HON. Dynograph Recording Optional
LVN	Benioff VR	Z	1.0	0.2	60	Photo Paper	Variable 2500-10000	
MID	Benioff 4681A	Z,N,E	1.0	0.2	15	Film	4000[2]	
MOK	Benioff 4681A	Z	1.0	0.33	30	Develocorder	10000[1]	Recorded at HON. Dynograph Recording Optional
NEW	Geotech S-13	Z	1.0	0.2	60	Helicorder	100000	
	Sprengnether	Z,N,E	15.0	75.0	30	Helicorder	1500	
	Wood-Anderson TS-220	N,E	0.8		30	Helicorder	5600	
NTI	Geotech S-13	Z	1.0	0.2	60	Helicorder	100000	Recorded at NEW
OPA	Benioff 4681A	Z	1.0	0.33	30	Develocorder	10000[1]	Recorded at HON. Dynograph Recording Optional
PMR	Geotech S-13	Z	1.0	0.2	60	Helicorder	100 10000 50000	Recorded at different magn. levels
					30	Develocorder	1000[1] 10000 100000	
	Geotech S-13	N,E	1.0	0.2	60	Helicorder	100 1000 10000	
					30	Develocorder	1000[1] 10000 100000	
	Geotech 7505A	Z	20.0	30.0	60	Helicorder	100 1000	
					30	Develocorder	1000[1]	
	Geotech 8700C	N,E	20.0	30.0	60	Helicorder	100 1000	
					30	Develocorder	1000[1]	
PMS	Geotech S-13	Z	1.0	0.2	60	Helicorder	50000	Recorded at PMR
					30	Develocorder	100000[1]	
PWA	Geotech S-13	Z	1.0	0.2	60	Helicorder	50000	Recorded at PMR
					30	Develocorder	100000[1]	
PHI	Wenner	S	9.0	5.4	20	Photo Paper		
	Wenner	E	9.2	4.2	20	Photo Paper		

STATION CODE	TYPE	SEISMOMETER COMP.	T_o	GALVO. T_g	RECORDER SPEED mm/min	TYPE OF RECORDING	MAGN.*	REMARKS
SLC	Wilson-Lamison	Z	1.2	1.8	60	Photo Paper	24000 at 1.5 sec.	
	McComb-Romberg	N,E	10.0		15	Photo Paper	335	Direct Recording
SJG	Benioff 1051	Z	1.0	0.75	60	Photo Paper	50000	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	50000	
	Sprengnether	Z,N,E	15.0	100.0	15	Photo Paper	750	
	Benioff	Z	1.05	0.5	60	Pen & Ink		
SLD	Benioff 4681A	Z	1.0	0.2	60	Helicorder	100000	
	Benioff 4681A	Z	1.0	0.2	60	Helicorder	3000	
	Benioff 6102A	N,E	1.0	0.2	60	Helicorder	100000	
SIT	Geotech S-13	Z	1.0	0.2	60	Helicorder	25000	
					60	Helicorder	50000	Recorded at PMR
					30	Develocorder	50000	Recorded at PMR
	Wilson-Lamison	Z	1.2	1.5	60	Photo Paper	10000	
	Wenner	S	7.0	11.0	15	Photo Paper	1000 at 7.0 sec.	
	Wenner	E	7.0	7.8	15	Photo Paper	1000 at 7.0 sec.	
TUC	Benioff 1051	Z	1.0	0.75	60	Photo Paper	200000	
	Benioff 1101	N,E	1.0	0.75	60	Photo Paper	200000	
	Sprengnether	Z,N,E	15.0	100.0	15	Photo Paper	1500	
TUO	Benioff MC	Z	1.0	0.235	30	Photo Paper	50000	
				86.0	30	Photo Paper Pen & Ink		
	Wood-Anderson	S	8.0		30	Photo Paper	466	Henson Type
	Wood-Anderson	E	8.0		30	Photo Paper	457	Henson Type
UKI	Wilson-Lamison	Z	1.1	1.4	60	Photo Paper	24000	
	McComb-Romberg	N,E	12.0		30	Photo Paper	75	Direct Recording
WAS	Wilson-Lamison	Z	1.78	1.0	30	Helicorder	10000	
WSC	Benioff 4681A	Z	1.0	0.33	60	Helicorder	65000	
	Wilson-Lamison	Z	1.78	1.02	60	Helicorder		

[1] Magnification when film is read on 10X viewer.

[2] Magnification when film is read on 8X viewer.

* Magnification is at 1.0 sec. for short-period instruments and 15.0 sec. for long-period instruments, unless noted otherwise.

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE
SERVICES ADMINISTRATION

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

NO.
JANUARY 1967

PRELIMINARY DETERMINATION OF EPICENTERS

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
1	00	04	21.1*	13.6 S	166.2 E	NEW HEBRIDES ISLANDS	149	3.9		0.9	7
1	00	21	04.6	12.0 S	166.2 E	SANTA CRUZ ISLANDS MAG. 6 1/2 - 6 3/4 (PAS).	17	5.0		1.1	90
1	00	45	11.8*	12.0 S	166.3 E	SANTA CRUZ ISLANDS	22			0.4	6
1	01	05	46.5	0.0 S	126.0 E	MOLUCCA SEA	N	4.7		1.2	27
1	02	19	47.1	19.1 S	173.4 W	TONGA ISLANDS	N	4.3		1.5	8
1	02	59	35.9	11.0 N	93.1 E	ANDAMAN ISLANDS REGION	70 G	4.9		1.1	41
1	03	13	19.3	12.0 S	166.1 E	SANTA CRUZ ISLANDS	43	4.6		1.2	33
1	03	35	43.2	7.6 N	94.4 E	NICOBAR ISLANDS REGION	34	4.2		1.5	11
1	04	04	03.3	12.0 S	166.0 E	SANTA CRUZ ISLANDS	9	4.5		1.1	44
1	05	39	23.6*	12.0 S	165.9 E	SANTA CRUZ ISLANDS	N			2.0	5
1	07	05	50.2	15.2 S	173.7 W	TONGA ISLANDS FELT AT APIA, WESTERN SAMOA. MAG. 6 1/2 - 6 3/4 (PAS), 6.4 (BRK).	40 D	6.0		1.3	170
1	07	40	11.8	17.1 S	172.8 W	TONGA ISLANDS REGION	40 G	4.4		1.3	17
1	07	45	52.9	12.2 S	166.1 E	SANTA CRUZ ISLANDS	27	4.6		1.3	30
1	08	11	15.1	12.1 S	166.0 E	SANTA CRUZ ISLANDS	54	4.5		0.8	19
1	08	45	35.9	20.6 S	178.2 W	FIJI ISLANDS REGION	550 G	4.9		1.1	45
1	08	54	16.7	11.6 S	165.9 E	SANTA CRUZ ISLANDS	N	4.4		1.4	9
1	08	55	14.5	12.2 S	166.0 E	SANTA CRUZ ISLANDS	18	4.8		1.2	17
1	09	55	11.3	17.2 S	70.7 W	NEAR COAST OF PERU	123 D	4.3		1.4	19
1	10	26	19.1	11.8 S	166.3 E	SANTA CRUZ ISLANDS	N	4.3		1.3	9
1	11	15	47.9	12.6 S	166.1 E	SANTA CRUZ ISLANDS	31	4.2		1.6	11
1	12	14	04.0	55.1 S	126.7 W	EASTER ISLAND CORDILLERA	N	4.8		0.6	12
1	12	53	30.3	11.7 S	165.9 E	SANTA CRUZ ISLANDS	37	4.7		0.7	16
1	13	04	57.0	11.3 S	166.1 E	SANTA CRUZ ISLANDS	50 G	4.3		1.0	19
1	13	13	39.0	25.2 S	70.6 W	NEAR COAST OF NORTHERN CHILE	17	4.5		1.0	15
1	13	18	27.1	11.6 S	165.3 E	SANTA CRUZ ISLANDS	31	4.9		0.8	32
1	13	26	48.2	12.1 S	166.0 E	SANTA CRUZ ISLANDS	42	4.3		1.0	9
1	14	18	47.4	12.4 S	165.9 E	SANTA CRUZ ISLANDS	11	5.0		1.3	41
1	14	38	13.9*	12.4 S	165.6 E	SANTA CRUZ ISLANDS	N			0.6	7
1	15	53	50.7	43.1 N	146.9 E	KURILE ISLANDS	29	4.4		1.0	14
1	17	40	19.1	49.2 S	108.6 E	SOUTHEAST INDIAN RISE	N	4.2		0.8	12
1	20	45	28.4	12.0 S	165.9 E	SANTA CRUZ ISLANDS	46	4.4		1.1	18
1	21	58	53.6	11.2 S	165.6 E	SANTA CRUZ ISLANDS MAG. 6 (PAS).	5	5.4		1.0	80
2	00	39	51.1*	12.3 S	165.7 E	SANTA CRUZ ISLANDS	40 G			1.2	6
2	01	18	26.9	11.4 S	165.6 E	SANTA CRUZ ISLANDS	N	4.3		1.2	10
2	02	35	14.9	11.5 S	165.2 E	SANTA CRUZ ISLANDS	30 G	5.0		0.8	28
2	03	43	04.6	12.1 S	165.9 E	SANTA CRUZ ISLANDS	42			1.2	11
2	04	42	07.4*	66.2 N	153.8 W	ALASKA	N	3.8		1.6	7
2	04	45	27.9*	50.2 N	155.6 E	KURILE ISLANDS	122	4.3		1.0	13
2	06	53	18.2	25.0 S	70.9 W	NEAR COAST OF NORTHERN CHILE	37 D	5.1		1.1	70
2	07	32	07.8	11.6 S	165.6 E	SANTA CRUZ ISLANDS	30 G	4.5		1.3	14
2	07	45	50.4	13.9 N	145.6 E	MARIANA ISLANDS	95 G	4.5		1.2	12
2	08	19	36.7	32.4 N	22.7 E	NEAR COAST OF LIBYA	N	4.6		1.4	66
2	08	38	14.3*	53.3 N	164.8 W	UNIMAK ISLAND REGION	N	4.3		0.9	11
2	08	49	32.7*	12.3 S	165.6 E	SANTA CRUZ ISLANDS	N	4.8		1.4	13
2	09	11	02.2	37.3 N	114.2 W	SOUTHERN NEVADA	N	4.4		1.2	19
2	09	47	53.6	10.1 S	28.2 E	REPUBLIC OF THE CONGO FELT AT KAWAMBWA, ZAMBIA.	28 D	5.4		0.9	56
2	10	00	23.0	11.9 S	165.1 E	SANTA CRUZ ISLANDS	30 G	4.7		0.6	13
2	10	24	29.8	11.7 S	166.1 E	SANTA CRUZ ISLANDS	N	4.1		0.7	6
2	10	31	21.0*	29.8 N	69.1 E	WEST PAKISTAN	17			0.9	6
2	10	57	53.7	25.1 S	70.4 W	NEAR COAST OF NORTHERN CHILE	N	4.5		1.4	18
2	13	49	19.2	11.3 S	165.8 E	SANTA CRUZ ISLANDS	37	4.3		0.7	11
2	13	50	07.1	30.6 N	50.4 E	IRAN	47	5.2		1.0	90
2	14	47	12.1	20.1 N	122.3 E	PHILIPPINE ISLANDS REGION	N	4.9		0.8	15
2	15	11	13.3	12.1 S	165.9 E	SANTA CRUZ ISLANDS	24	4.5		1.3	12
2	16	22	40.2*	24.4 S	67.1 W	CHILE-ARGENTINA BORDER REGION	174	4.1		0.5	9
2	16	26	51.8*	12.4 S	166.1 E	SANTA CRUZ ISLANDS	32	4.3		1.2	7

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
2	17	11	45.8	11.6 S	166.7 E	SANTA CRUZ ISLANDS	50	4.6		2.1	7
2	17	44	29.9	11.9 S	166.0 E	SANTA CRUZ ISLANDS	N	4.4		1.5	6
2	18	16	19.0*	59.8 N	152.4 W	SOUTHERN ALASKA	66	3.9		0.8	13
2	19	32	13.3*	19.7 S	169.4 E	NEW HEBRIDES ISLANDS	104			0.5	7
2	19	59	58.7	12.4 S	166.4 E	SANTA CRUZ ISLANDS MAG. 5.9-6.1 (BRK).	35 G	5.3		1.2	101
2	20	20	14.0	11.8 S	165.3 E	SANTA CRUZ ISLANDS	26	4.8		0.9	24
2	20	40	15.9	12.3 S	166.3 E	SANTA CRUZ ISLANDS	35 G	4.4		1.1	10
2	22	09	47.3*	58.3 N	151.5 W	KODIAK ISLAND REGION	N	4.5		1.2	16
2	22	17	56.3	30.6 N	79.3 E	TIBET-INDIA BORDER REGION	25 G	4.8		1.0	13
2	23	01	37.8	11.9 S	165.2 E	SANTA CRUZ ISLANDS	25 G	4.8		0.7	17
2	23	49	39.0	11.2 S	165.4 E	SANTA CRUZ ISLANDS	35 G	4.7		0.7	15
2	23	55	34.1	11.7 S	165.2 E	SANTA CRUZ ISLANDS	18	5.2		0.6	28
3	00	25	07.4*	42.0 N	142.4 E	HOKKAIDO, JAPAN REGION	N	4.1		1.7	6
3	01	40	45.7	17.7 S	172.4 E	NEW HEBRIDES ISLANDS REGION	37	4.8		1.0	19
3	02	50	14.6	25.4 N	140.6 E	VOLCANO ISLANDS REGION	157	4.2		0.5	12
3	03	47	58.5*	25.4 S	69.7 W	NORTHERN CHILE FELT AT TALTAL.	20	4.4		1.8	9
3	04	36	02.5	11.2 S	165.6 E	SANTA CRUZ ISLANDS	25	4.5		1.3	15
3	04	55	57.5	1.3 S	77.7 W	ECUADOR	195	4.3		0.8	33
3	05	23	48.9	11.9 S	165.2 E	SANTA CRUZ ISLANDS	59	5.2		0.7	22
3	05	28	29.5	60.9 N	151.5 W	KENAI PENINSULA, ALASKA	94	4.5		0.7	33
3	05	35	44.2	11.1 S	165.6 E	SANTA CRUZ ISLANDS MAG. 6.1-6.3 (BRK).	18	5.2		1.0	57
3	05	52	48.4	11.2 S	165.6 E	SANTA CRUZ ISLANDS	8	5.3		1.0	59
3	06	25	28.6*	8.3 N	103.9 W	OFF COAST OF MEXICO	N	4.1		1.1	13
3	07	06	35.2	37.3 N	116.4 W	SOUTHERN NEVADA	13	3.6		0.9	5
3	07	32	57.3*	11.6 S	165.0 E	SANTA CRUZ ISLANDS	30 G	4.5		0.8	11
3	10	11	38.2*	11.4 S	165.1 E	SANTA CRUZ ISLANDS	N	4.6		0.7	7
3	10	43	23.9	10.9 S	165.4 E	SANTA CRUZ ISLANDS	22	4.8		1.0	28
3	11	05	16.7	11.2 S	165.4 E	SANTA CRUZ ISLANDS MAG. 5.1-5.5 (BRK).	40 G	5.3		1.1	74
3	11	28	48.8*	10.9 S	165.4 E	SANTA CRUZ ISLANDS	30 G	4.6		0.5	8
3	11	31	33.2	11.2 S	165.4 E	SANTA CRUZ ISLANDS	22	5.1		0.9	40
3	12	02	56.9	56.0 N	34.5 W	NORTH ATLANTIC OCEAN	N	4.8		0.9	27
3	12	03	46.9	11.3 S	165.7 E	SANTA CRUZ ISLANDS	30 G	4.5		0.8	12
3	12	30	45.2*	51.7 N	174.6 E	NEAR ISLANDS, ALEUTIAN ISLANDS	N	4.4		1.0	13
3	12	32	08.3	11.0 S	165.5 E	SANTA CRUZ ISLANDS	26	5.2		0.9	47
3	13	23	51.1	12.0 S	165.3 E	SANTA CRUZ ISLANDS	30 G	4.9		1.2	19
3	16	20	21.4	11.5 S	165.4 E	SANTA CRUZ ISLANDS	41	4.2		1.5	14
3	17	11	20.3	13.5 N	90.3 W	NEAR COAST OF GUATEMALA FELT AT SAN SALVADOR, EL SALVADOR.	51	4.3		1.1	23
3	17	21	42.0	6.8 N	73.0 W	NORTHERN COLOMBIA FELT AT BOGOTA, MANIZALES, BUCARAMANGA, AND CUCUTA	164 D	4.6		1.0	35
3	17	46	45.5	11.3 S	165.8 E	SANTA CRUZ ISLANDS	38	4.7		0.9	25
3	18	35	23.3*	12.5 S	166.2 E	SANTA CRUZ ISLANDS	N			1.9	9
3	20	12	48.7	20.4 S	169.3 E	NEW HEBRIDES ISLANDS	58	4.5		1.4	20
3	20	13	36.1	45.6 N	126.0 W	OFF COAST OF OREGON	N	4.4		1.3	27
3	20	30	16.3	11.1 S	165.5 E	SANTA CRUZ ISLANDS	21	4.6		0.8	26
3	20	43	05.5	11.8 S	165.2 E	SANTA CRUZ ISLANDS	51	4.8		0.8	23
3	21	23	20.9	12.4 S	166.4 E	SANTA CRUZ ISLANDS MAG. 5.4-5.8 (BRK).	27	5.3		1.2	97
3	21	33	11.7	11.6 S	165.3 E	SANTA CRUZ ISLANDS	N	4.7		1.4	14
3	22	27	04.0	11.1 S	165.5 E	SANTA CRUZ ISLANDS	15	4.6		0.8	21
3	23	13	52.1	11.4 S	165.5 E	SANTA CRUZ ISLANDS	34	4.6		1.1	16
4	00	14	38.6	11.2 S	165.6 E	SANTA CRUZ ISLANDS	35	4.5		1.0	25
4	00	28	07.5	13.1 N	88.6 W	EL SALVADOR	72	4.1		1.1	10
4	01	55	06.5	11.6 S	165.5 E	SANTA CRUZ ISLANDS	33	4.5		1.0	16
4	02	53	29.4	3.6 S	148.9 E	BISMARCK SEA	15	4.8		1.2	25
4	03	41	36.4	20.4 N	120.1 E	PHILIPPINE ISLANDS REGION FELT IN HENGCHUN DISTRICT, TAIWAN.	N	5.4		1.0	139
4	04	46	11.6	11.8 S	165.1 E	SANTA CRUZ ISLANDS	N	4.4		1.6	8

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
4	05	58	53.9	38.4 N	22.0 E	GREECE 8 INJURED,14 HOUSES COLLAPSED, AND 248 HOUSES SERIOUSLY DAMAGED IN ACHAIA PROVINCE. DAMAGE DUE TO EXTENSIVE EARTHSLIDES. FELT IN CENTRAL GREECE, PELOPONNESUS, AND ON CEPHALONIA ISLAND.	10 G	5.3		1.1	107
4	07	10	15.2	38.3 N	22.1 E	GREECE FELT AT AEGHION, RHODOOAPHNI, AND PATRAS.	30	4.4		1.0	23
4	10	17	08.4	50.7 N	157.3 E	KURILE ISLANDS	55 D	5.0		1.0	54
4	11	26	46.0	23.6 N	94.2 E	BURMA-INDIA BORDER REGION	58	5.1		1.1	35
4	13	06	59.6	11.9 S	165.2 E	SANTA CRUZ ISLANDS	30 G	4.9		0.9	25
4	13	18	58.6	11.0 S	165.1 E	SANTA CRUZ ISLANDS	25	4.3		1.0	11
4	14	49	19.1	52.1 N	175.0 E	RAT ISLANDS, ALEUTIAN ISLANDS	N	4.5		1.2	16
4	16	30	30.7	3.2 S	142.3 E	NEAR NORTH COAST OF NEW GUINEA	35	5.3		1.1	29
4	17	09	11.7*	11.5 S	165.9 E	SANTA CRUZ ISLANDS	N	4.5		1.1	6
4	18	00	58.5	33.6 N	135.8 E	NEAR S. COAST OF SOUTHERN HONSHU	417	4.3		0.8	29
4	19	53	42.3*	14.5 S	70.7 W	PERU	101	4.0		0.5	6
4	20	15	57.2	10.9 N	62.5 W	NEAR COAST OF VENEZUELA FELT ON TRINIDAD.	78	5.4		1.1	121
4	20	49	58.3	11.8 S	165.2 E	SANTA CRUZ ISLANDS	N	4.7		1.1	11
4	22	48	20.3	55.8 S	27.7 W	SOUTH SANDWICH ISLANDS REGION	52	5.5		1.2	24
5	00	14	41.0	48.1 N	102.9 E	MONGOLIA FELT AT ULAN BATOR AND IRKUTSK, USSR. SMALL FISSURES IN HANGYAN MOUNTAINS. MAG. 7 1/2 (PAS), 7.4-7.6 (BRK), 7 1/4 (PAL), 7 1/2 (CGS SURFACE WAVE).	35 D	6.0		1.2	204
5	00	42	13.4	48.4 N	103.0 E	MONGOLIA	N	5.6		1.2	94
5	02	06	10.9*	11.3 S	165.5 E	SANTA CRUZ ISLANDS	N	4.6		1.5	9
5	02	10	16.7	11.3 S	165.6 E	SANTA CRUZ ISLANDS	30	5.0		1.0	41
5	05	20	10.2	11.4 S	165.1 E	SANTA CRUZ ISLANDS	47	4.8		0.9	9
5	06	13	31.1	13.8 N	120.7 E	MINDORO, PHILIPPINE ISLANDS FELT AT MANILA AND IBA.	162	5.4		1.0	110
5	08	14	27.4*	34.5 N	138.0 E	NEAR S. COAST OF HONSHU, JAPAN	281	3.6		0.6	8
5	10	08	02.9	39.3 N	72.7 E	KIRGIZ SSR	48	5.2		1.1	109
5	10	35	50.1	11.4 S	166.2 E	SANTA CRUZ ISLANDS	60 D	5.2		1.0	60
5	12	15	21.7	37.3 N	116.5 W	SOUTHERN NEVADA MAG. 4 1/4 (PAS), 4.0 (BRK).	16	4.0		1.0	21
5	14	38	12.1	11.1 S	165.4 E	SANTA CRUZ ISLANDS	30 G	4.7		0.7	17
5	17	00	10.3	39.0 N	21.9 E	GREECE	91	4.3		0.7	15
5	18	24	57.2	8.2 S	149.5 E	EAST NEW GUINEA REGION	51	5.1		0.5	9
5	21	38	23.8	21.9 S	170.4 E	LOYALTY ISLANDS REGION	15			1.4	11
5	22	40	27.8	48.3 N	102.9 E	MONGOLIA	N	4.7		0.9	21
5	22	42	01.4	41.8 N	112.6 W	UTAH	5 G			0.7	8
5	23	58	20.5	48.1 N	102.9 E	MONGOLIA	28 D	5.4		1.0	121
6	00	04	03.1	41.8 N	143.4 E	HOKKAIDO, JAPAN REGION FELT ON HOKKAIDO AND NORTHERN HONSHU.	36 D	5.5		1.0	137
6	00	24	07.4	44.9 N	111.1 W	HEBGEN LAKE REGION	21			1.5	5
6	02	50	35.3	45.5 N	151.7 E	KURILE ISLANDS	41	4.6		0.9	10
6	04	07	24.8	1.7 S	126.3 E	MOLUCCA SEA	41	5.1		0.9	28
6	04	22	03.3	11.2 S	165.3 E	SANTA CRUZ ISLANDS	13	4.5		0.9	7
6	05	09	38.3*	48.5 N	102.8 E	MONGOLIA	N	4.3		1.0	9
6	05	23	13.5	12.1 S	166.1 E	SANTA CRUZ ISLANDS	39	4.4		1.3	8
6	08	14	27.5	11.9 S	166.1 E	SANTA CRUZ ISLANDS	50	4.5		1.1	20
6	08	46	54.2	49.9 N	155.6 E	KURILE ISLANDS	77	4.3		1.2	14
6	10	03	06.1	1.5 S	126.5 E	MOLUCCA SEA	54	5.3		1.0	70
6	13	27	28.3	27.9 S	26.7 E	REPUBLIC OF SOUTH AFRICA	18			1.0	10
6	15	41	15.5	36.9 N	107.0 W	NEW MEXICO	N	4.3		0.3	10
6	17	35	17.5	30.7 N	130.7 E	KYUSHU, JAPAN	N	4.5		1.2	10
6	19	04	40.6*	25.3 S	70.3 W	NEAR COAST OF NORTHERN CHILE	51	4.5		1.5	9
6	22	51	37.8	11.2 S	165.3 E	SANTA CRUZ ISLANDS	33			1.5	9
6	23	57	34.9	32.1 N	116.1 W	CALIFORNIA-MEXICO BORDER REGION 32°7.1'N, 116°6.5'W., DEPTH 0.7 KM. MAG. 3.9. HYPOCENTER AND MAGNITUDE BY PASADENA.	1				6

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
7	00	27	21.5	48.8 S	112.6 E	SOUTHEAST INDIAN RISE	7	5.4		1.1	109
7	01	57	12.4*	50.1 N	177.2 E	RAT ISLANDS, ALEUTIAN ISLANDS	34 D	4.6		1.1	24
7	04	46	35.8*	21.3 S	68.9 W	CHILE-BOLIVIA BORDER REGION	123	4.1		0.3	6
7	04	55	29.2	51.9 N	175.1 W	ANDREANOF ISLANDS, ALEUTIAN IS. FELT ON ADAK.	48	4.5		1.2	22
7	10	48	04.0	48.2 N	103.0 E	MONGOLIA	N	4.6		1.1	21
7	11	10	27.8*	18.0 S	178.1 W	FIJI ISLANDS REGION	548	4.1		0.9	12
7	11	32	58.3	12.2 S	166.1 E	SANTA CRUZ ISLANDS	16	4.7		1.1	32
7	13	03	43.8	48.2 N	103.0 E	MONGOLIA	25 D	5.0		1.2	52
7	13	34	49.3	11.8 N	142.8 E	SOUTH OF MARIANA ISLANDS	42	5.5		1.1	92
7	15	53	50.0	12.7 S	167.5 E	SANTA CRUZ ISLANDS	25 G	4.8		1.0	25
7	16	41	01.0	11.9 S	166.1 E	SANTA CRUZ ISLANDS	17	5.1		1.0	77
7	18	29	14.7*	12.0 S	165.9 E	SANTA CRUZ ISLANDS	27			1.2	6
7	19	24	15.4	17.4 N	98.8 W	GUERRERO, MEXICO	67 D	4.9		0.9	50
7	21	06	26.9*	51.9 N	175.6 W	ANDREANOF ISLANDS, ALEUTIAN IS. FELT ON ADAK.	35 G	4.3		1.3	10
8	01	43	47.1	27.8 N	55.7 E	SOUTHERN IRAN	53	4.6		1.0	12
8	02	28	18.9	22.3 S	69.1 W	NORTHERN CHILE	108	4.3		1.2	13
8	05	02	55.2	56.1 N	162.8 E	NEAR EAST COAST OF KAMCHATKA	59	5.1		1.2	117
8	05	06	49.1	56.0 N	162.9 E	NEAR EAST COAST OF KAMCHATKA	34	4.8		1.1	20
8	06	43	32.7	56.0 N	162.8 E	NEAR EAST COAST OF KAMCHATKA	48	5.1		0.9	89
8	07	37	30.4	33.6 N	118.5 W	SOUTHERN CALIFORNIA 33°37.9'N, 118°28.0'W., DEPTH 11.4 KM. HYPOCENTER BY PASADENA. MAG 4.0 (PAS), 4.0 (BRK). FELT IN COASTAL AREAS OF LOS ANGELES COUNTY.	11	4.3			37
8	08	07	57.2	11.7 S	165.1 E	SANTA CRUZ ISLANDS	26 D	4.9		0.8	17
8	08	12	30.2	33.6 N	118.3 W	SOUTHERN CALIFORNIA 33°33.3'N, 118°20.6'W., DEPTH 14.0 KM. HYPOCENTER BY PASADENA. MAG. 3.6 (PAS), 3.5-3.7 (BRK). FELT IN PALOS VERDES ESTATES-PALOS VERDES PENINSULA AREA	14	4.5			27
8	08	26	58.2	33.6 N	118.4 W	SOUTHERN CALIFORNIA 33°34.8'N, 118°21.7'W., DEPTH 9.2 KM. HYPOCENTER BY PASADENA. MAG. 3.8 (PAS), 3.7 (BRK). FELT AT PALOS VERDES ESTATES AND REDONDO BEACH.	9	4.7			33
8	08	32	04.4	56.1 N	162.7 E	NEAR EAST COAST OF KAMCHATKA	61	4.9		1.0	66
8	09	23	24.4*	11.5 S	165.9 E	SANTA CRUZ ISLANDS	45 G			1.4	6
8	12	14	56.2*	39.6 N	123.1 W	NEAR COAST OF NORTHERN CALIF. MAG. 2.9 (BRK).	N	3.5		1.1	10
8	15	27	19.4	12.3 S	166.3 E	SANTA CRUZ ISLANDS	48	5.0		1.4	33
8	18	46	11.8	12.1 S	165.8 E	SANTA CRUZ ISLANDS	28	4.1		1.1	14
8	20	47	44.4	33.6 N	118.4 W	SOUTHERN CALIFORNIA 33°34.7'N, 118°24.2'W. DEPTH 8.8 KM. HYPOCENTER BYPASADENA. MAG. 3.8 (PAS), 3.8 (BRK). FELT IN COASTAL AREAS OF LOS ANGELES COUNTY.	9	3.9			27
8	21	56	23.5	11.4 S	165.6 E	SANTA CRUZ ISLANDS	25 G	4.6		1.0	7
9	00	50	02.6	11.5 S	166.3 E	SANTA CRUZ ISLANDS	N	4.5		1.8	8
9	01	52	12.2*	51.2 N	171.6 W	FOX ISLANDS, ALEUTIAN ISLANDS	N	4.2		0.6	8
9	01	55	15.0	27.6 N	54.5 E	SOUTHERN IRAN 6 INJURIED AND MODERATE PROPERTY DAMAGE AT LAR.	30	5.3		1.1	98
9	03	22	14.7*	48.0 N	154.5 E	KURILE ISLANDS	45 G	4.2		0.8	11
9	04	47	04.5*	24.8 S	70.9 W	NEAR COAST OF NORTHERN CHILE	N	4.5		1.5	10
9	06	46	31.7	11.7 S	165.2 E	SANTA CRUZ ISLANDS	N	4.5		1.0	23
9	09	31	57.3	44.9 N	112.1 W	EASTERN IDAHO	N			1.7	6
9	09	39	40.0	24.2 N	122.6 E	TAIWAN REGION FELT IN NORTHERN AND HWALIEN DISTRICTS OF TAIWAN.	60	5.2		1.3	22
9	11	39	40.5	44.0 N	128.3 W	OFF COAST OF OREGON	N	4.5		1.3	13
9	13	24	39.4	28.0 S	67.2 W	LA RIOJA PROVINCE, ARGENTINA	119	4.6		0.9	26

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MB	MAG MS	SD	N
9	15	10	57.6	4.6 S	151.7 E	NEW BRITAIN REGION	142	4.6		0.8	16
9	17	47	44.1	12.2 S	166.4 E	SANTA CRUZ ISLANDS	57	4.8		1.4	12
9	18	08	24.1	5.1 N	77.6 W	NEAR WEST COAST OF COLOMBIA	47	5.1		1.1	84
						FELT AT CALI AND MANIZALES.					
9	18	31	34.1	11.9 S	165.9 E	SANTA CRUZ ISLANDS	34	4.3		1.0	12
9	19	03	45.3	15.6 S	176.1 W	FIJI ISLANDS REGION	350 G	5.0		0.7	39
9	19	47	01.8	11.6 S	165.6 E	SANTA CRUZ ISLANDS	40 G	5.4		0.9	46
9	20	59	06.8	5.7 S	148.6 E	NEW BRITAIN REGION	96			1.7	8
9	21	17	24.8	19.6 S	169.4 E	NEW HEBRIDES ISLANDS	215	4.3		0.9	19
9	21	58	26.6	36.9 N	141.1 E	NEAR EAST COAST OF HONSHU, JAPAN	55	4.3		0.7	14
9	22	31	22.1	13.1 N	89.0 W	EL SALVADOR	78	4.1		1.5	8
9	23	03	54.4	18.0 S	178.6 W	FIJI ISLANDS REGION	640 G	4.2		0.6	23
10	04	58	04.7	25.2 S	70.9 W	NEAR COAST OF NORTHERN CHILE	38	4.5		1.1	22
10	07	49	21.7*	6.5 S	149.5 E	NEW BRITAIN REGION	32			0.6	5
10	08	30	21.8	36.5 N	138.1 E	HONSHU, JAPAN	7	4.5		1.0	32
						FELT IN NAGANO AND GUMMA PREFECTURES.					
10	10	28	22.6	39.4 N	120.2 W	NORTHERN CALIFORNIA	5 G	4.4		1.4	19
						MAG. 4.0 (BRK). FELT AT TRUCKEE.					
10	11	52	52.1	44.9 N	111.5 W	HEBGEN LAKE REGION	25	3.8		0.7	13
						FELT AT HEBGEN DAM.					
10	12	10	37.1	37.4 N	114.2 W	SOUTHERN NEVADA	N			1.4	7
10	13	34	05.5	19.6 S	175.9 W	TONGA ISLANDS	N	5.0		1.2	31
10	15	38	57.6	51.9 N	176.0 E	RAT ISLANDS, ALEUTIAN ISLANDS	117	4.7		1.2	15
10	17	02	12.7	7.8 S	107.0 E	JAVA	46			1.2	11
10	17	18	39.7	17.0 N	91.1 W	MEXICO-GUATEMALA BORDER REGION	N	4.2		1.8	13
10	17	42	41.4	56.0 N	162.6 E	NEAR EAST COAST OF KAMCHATKA	61	4.4		1.2	29
10	17	49	33.3	33.9 N	133.8 E	SHIKOKU, JAPAN	7			0.8	20
						FELT IN KOCHI, TOKUSHIMA, AND OKAYAMA PREFECTURES.					
10	18	03	45.4	11.5 S	165.8 E	SANTA CRUZ ISLANDS	23	4.7		1.0	18
10	18	07	01.1	11.6 S	165.8 E	SANTA CRUZ ISLANDS	60 G	4.7		1.2	9
10	18	55	48.7	11.6 S	166.1 E	SANTA CRUZ ISLANDS	61	4.9		1.3	15
10	19	45	24.2	46.1 N	152.6 E	KURILE ISLANDS	15	4.3		0.6	11
10	22	07	51.0*	8.1 N	39.8 W	CENTRAL MID-ATLANTIC RIDGE	N	4.3		1.2	8
10	22	24	26.1	25.4 S	70.8 W	NEAR COAST OF NORTHERN CHILE	33	4.8		0.9	22
11	01	20	42.9	11.4 S	165.6 E	SANTA CRUZ ISLANDS	25 G			1.1	8
11	02	58	00.6	11.5 S	165.7 E	SANTA CRUZ ISLANDS	31	5.1		0.7	33
11	05	54	03.1	0.1 S	120.0 E	NORTHERN CELEBES	47	5.6		0.9	88
11	07	26	40.9	11.5 S	165.7 E	SANTA CRUZ ISLANDS	29	4.3		1.0	9
11	10	43	36.4	11.6 S	165.5 E	SANTA CRUZ ISLANDS	18	4.7		0.8	17
11	11	03	38.9	11.4 S	165.7 E	SANTA CRUZ ISLANDS	19	4.5		0.8	19
11	11	20	46.4	34.1 N	45.7 E	IRAN-IRAQ BORDER REGION	41	5.5		1.3	159
11	11	31	00.5	3.7 S	100.9 E	SOUTHERN SUMATRA	N	5.3		0.9	19
11	11	32	25.2	11.4 S	165.7 E	SANTA CRUZ ISLANDS	27	4.7		1.0	24
11	11	41	01.1*	11.4 S	165.7 E	SANTA CRUZ ISLANDS	N	4.9		1.0	8
11	11	50	14.3	6.8 S	146.3 E	EAST NEW GUINEA REGION	47			0.7	10
11	11	58	22.6	39.0 N	71.0 E	TADZHIK SSR	N			1.7	8
11	13	56	33.5	3.5 S	101.0 E	SOUTHERN SUMATRA	N			1.2	25
11	16	08	08.0	5.4 N	82.5 W	SOUTH OF PANAMA	N	5.3		1.0	69
						MAG. 5.1-5.5 (BRK).					
11	21	49	13.7	39.2 N	21.6 E	GREECE	N	4.3		1.3	8
12	02	55	42.7	25.6 S	70.8 W	NEAR COAST OF NORTHERN CHILE	26	4.2		1.3	9
12	03	44	34.5	5.1 S	152.8 E	NEW BRITAIN REGION	55	4.7		0.8	11
						FELT AT RABAUL.					
12	03	52	06.2	39.0 N	107.5 W	COLORADO	N	4.4		1.2	11
12	04	33	07.9	17.5 S	167.8 E	NEW HEBRIDES ISLANDS	23			1.4	6
12	05	17	28.1	56.2 S	27.0 W	SOUTH SANDWICH ISLANDS REGION	80 G	5.4		0.6	34
12	05	24	01.1*	44.7 N	149.7 E	KURILE ISLANDS	37	3.9		0.7	6
12	05	44	00.3	18.4 S	70.4 W	NEAR COAST OF NORTHERN CHILE	99	4.8		1.1	29
12	10	14	29.6	26.3 S	179.2 E	SOUTH OF FIJI ISLANDS	536	4.5		0.8	25
12	12	24	46.8	36.5 N	138.1 E	HONSHU, JAPAN	10	4.4		1.0	30
						FELT IN NAGANO, GUMMA, AND SAITAMA PREFECTURES.					
12	17	04	07.7	25.5 S	70.8 W	NEAR COAST OF NORTHERN CHILE	7	4.6		1.2	17
12	17	55	33.3*	15.1 S	167.4 E	NEW HEBRIDES ISLANDS	133			1.3	7
12	18	14	22.0	28.0 N	54.4 E	SOUTHERN IRAN	49	4.8		1.0	39
12	19	14	09.0	25.5 S	70.8 W	NEAR COAST OF NORTHERN CHILE	40	4.5		1.1	7

JAN	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
12	21	40	00.0	19.8	S	178.2	W	FIJI ISLANDS REGION	600 G	4.2		0.9	10
12	22	22	09.9	2.1	N	31.2	E	UGANDA	15	4.5		0.8	17
13	01	22	59.3*	44.2	N	149.4	E	KURILE ISLANDS	N	3.9		1.2	7
13	03	39	53.3*	30.5	S	177.6	W	KERMADEC ISLANDS REGION	N	4.0		1.4	7
13	04	26	16.0	32.2	N	137.6	E	SOUTH OF HONSHU, JAPAN	401	4.3		1.0	22
13	06	47	30.7*	5.2	N	78.0	W	SOUTH OF PANAMA	N	4.1		1.7	9
13	09	37	55.9	63.2	N	150.9	W	CENTRAL ALASKA	120	4.0		0.9	19
13	09	49	53.8*	27.1	S	177.2	W	KERMADEC ISLANDS	120 G	4.3		1.2	10
13	13	03	19.9*	25.3	S	71.1	W	OFF COAST OF NORTHERN CHILE	N	4.6		1.4	7
13	13	21	30.7	11.8	S	165.0	E	SANTA CRUZ ISLANDS	N	4.7		1.1	14
13	13	48	09.7	10.7	S	161.4	E	SOLOMON ISLANDS FELT ON GUADALCANAL. MAG. 6 3/4 (PAS), 5.7-6.1 (BRK), 6 (CGS SURFACE WAVE).	21	5.7		1.2	97
13	14	04	32.5	23.9	N	94.6	E	BURMA-INDIA BORDER REGION	106 D	4.8		1.0	30
13	19	24	35.2	25.1	S	70.3	W	NEAR COAST OF NORTHERN CHILE	65	4.5		1.0	9
14	01	18	14.7	44.0	N	148.7	E	KURILE ISLANDS	50 G	4.2		1.5	15
14	02	10	36.6	41.5	N	141.9	E	HOKKAIDO, JAPAN REGION FELT AT HACHINOHE AND HIROO.	76	4.3		1.2	26
14	02	45	17.7	33.7	N	118.4	W	SOUTHERN CALIFORNIA 33°40.2'N, 118°26.4'W. DEPTH 7.2 KM. HYPOCENTER BY PASADENA. MAG. 3.5 (PAS), 3.7 (BRK). FELT IN COASTAL AREAS OF LOS ANGELES COUNTY.	7	4.1			28
14	06	50	18.1	45.1	N	110.8	W	MONTANA	N			1.1	6
14	10	59	24.9	39.2	N	70.7	E	TADZHIK SSR	25	4.9		1.3	26
14	11	20	44.3*	17.4	S	179.2	W	FIJI ISLANDS REGION	600 G	3.9		0.6	14
14	11	32	57.9	29.2	S	146.0	E	NEW SOUTH WALES, AUSTRALIA	47			0.6	6
14	12	04	51.0	52.1	N	175.4	E	RAT ISLANDS, ALEUTIAN ISLANDS	41 D	5.2		1.0	116
14	12	41	19.0	4.1	S	102.4	E	SOUTHERN SUMATRA	48 D	5.2		0.9	53
14	13	24	54.7	13.7	N	120.7	E	MINDORO, PHILIPPINE ISLANDS FELT AT MANILA.	53	4.8		1.1	30
14	13	34	00.1	18.4	N	145.9	E	MARIANA ISLANDS	125 D	4.9		0.9	40
14	14	06	48.3	43.4	S	39.1	E	PRINCE EDWARD ISLANDS REGION	N	5.3		1.3	38
14	14	13	40.7	11.4	S	165.8	E	SANTA CRUZ ISLANDS	N	5.0		1.2	43
14	15	29	15.3	44.7	N	81.6	E	NORTHERN SINKIANG PROV., CHINA	35 D	5.0		1.0	69
14	15	58	11.2	16.9	N	91.2	W	MEXICO-GUATEMALA BORDER REGION	5	4.3		1.0	18
14	17	24	01.8*	52.0	N	173.7	W	ANDREANOF ISLANDS, ALEUTIAN IS.	N	3.8		1.0	12
14	19	07	55.5	46.3	N	13.3	E	AUSTRIA	N			2.1	7
14	20	58	01.3*	35.3	S	107.7	W	EASTER ISLAND CORDILLERA	N	4.4		1.2	10
15	00	03	14.3	29.8	N	51.5	E	SOUTHERN IRAN	N	4.7		0.9	26
15	01	26	55.1	8.5	S	111.5	E	JAVA	N	5.1		1.2	33
15	01	28	58.2	12.3	S	165.6	E	SANTA CRUZ ISLANDS	N	4.7		0.8	14
15	02	28	41.0	38.9	S	144.6	E	NEAR S.E. COAST OF AUSTRALIA	N			0.7	5
15	05	44	37.2	37.5	N	134.8	E	SEA OF JAPAN	386	4.3		1.1	38
15	06	18	31.1*	13.6	S	170.9	E	NEW HEBRIDES ISLANDS REGION	643	4.6		0.8	13
15	08	42	51.5*	52.1	N	173.6	W	ANDREANOF ISLANDS, ALEUTIAN IS.	N	4.3		0.5	14
15	09	16	17.0	56.3	N	153.7	W	KODIAK ISLAND REGION	25 G	4.6		0.8	47
15	12	17	46.7	35.4	N	139.1	E	NEAR S. COAST OF HONSHU, JAPAN FELT IN CENTRAL HONSHU.	28	4.1		0.8	23
15	12	48	56.2*	14.2	N	92.3	W	NEAR COAST OF CHIAPAS, MEXICO	N	3.6		1.6	7
15	13	23	47.0*	59.1	S	159.2	E	MACQUARIE ISLAND REGION	N			1.3	6
15	15	05	38.9	25.6	S	70.6	W	NEAR COAST OF NORTHERN CHILE	16	4.9		1.1	29
15	15	11	54.8*	5.4	S	153.8	E	NEW IRELAND REGION	39			1.0	8
15	18	03	18.0	6.9	N	73.0	W	NORTHERN COLOMBIA	160	4.2		0.6	12
15	19	58	42.5	55.7	N	110.8	E	LAKE BAIKAL REGION	11	5.2		1.0	80
15	20	27	36.9	29.0	N	43.3	W	NORTH ATLANTIC RIDGE	N	4.7		0.9	23
15	22	18	09.8	38.1	N	74.1	E	TADZHIK-SINKIANG BORDER REGION	168	5.1		1.0	25
15	23	26	22.5	37.4	N	118.6	W	CALIFORNIA-NEVADA BORDER REGION FELT AT LONG VALLEY DAM, BISHOP, AND INDEPENDENCE, CALIFORNIA. MAG. 3.8 (PAS), 3.8 (BRK).	4	3.5		0.9	19
16	01	54	50.9	37.4	N	118.6	W	CALIFORNIA-NEVADA BORDER REGION FELT AT CONTROL GORGE POWER PLANT. MAG. 3.8 (PAS), 3.5 (BRK).	5 G			0.6	12

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MB	MAG MS	SD	N
16	03	32	09.2	36.4 N	138.1 E	HONSHU, JAPAN FELT IN NAGANO PREFECTURE.	11	4.7		1.6	55
16	03	50	45.2	18.5 S	169.4 E	NEW HEBRIDES ISLANDS	253	4.5		1.0	19
16	04	44	24.7	11.3 S	165.7 E	SANTA CRUZ ISLANDS	12	5.3		1.0	52
16	07	11	12.2	24.2 S	66.8 W	SALTA PROVINCE, ARGENTINA FELT AT METAN.	188	5.4		1.0	75
16	07	22	10.7	5.2 N	77.7 W	NEAR WEST COAST OF COLOMBIA	30 G	4.7		1.2	29
16	07	31	51.1*	24.2 S	66.8 W	SALTA PROVINCE, ARGENTINA	185	4.0		1.2	10
16	09	22	45.9	37.7 N	107.9 W	COLORADO	N	4.1		0.8	9
16	11	09	06.6	10.7 S	161.4 E	SOLOMON ISLANDS MAG. 5.3-5.7 (BRK).	27	5.2		1.0	56
16	11	46	14.2	10.7 S	161.4 E	SOLOMON ISLANDS	16	4.9		1.0	14
16	12	22	33.7	10.6 S	161.4 E	SOLOMON ISLANDS	35	4.6		1.1	9
16	14	26	27.0	11.2 S	165.7 E	SANTA CRUZ ISLANDS MAG. 5.8-6.2 (BRK).	30 G	5.3		1.3	89
16	14	39	09.6	5.8 N	123.6 E	MINDANAO, PHILIPPINE ISLANDS	44	5.2		1.0	37
16	14	48	49.1	11.4 S	165.7 E	SANTA CRUZ ISLANDS	30 G	5.2		1.0	33
16	14	58	39.8	11.4 S	165.8 E	SANTA CRUZ ISLANDS	30 G	4.6		1.4	9
16	15	30	47.0*	10.6 N	85.9 W	COSTA RICA	N	4.7		1.2	19
16	16	02	21.9	11.3 S	165.6 E	SANTA CRUZ ISLANDS	30 G	5.2		0.9	38
16	19	37	52.0	37.4 N	118.5 W	CALIFORNIA-NEVADA BORDER REGION FELT AT BISHOP AND CONTROL GORGE POWER PLANT. MAG. 3.7 (PAS), 4.0 (BRK).	N	3.6		0.6	10
16	20	00	12.5	36.6 N	26.9 E	DODECANESE ISLANDS	151			1.1	18
16	23	54	07.8*	34.0 N	136.8 E	SOUTHERN HONSHU, JAPAN	365	4.1		0.5	11
17	00	32	47.6	43.1 N	147.6 E	KURILE ISLANDS	20	4.4		1.3	19
17	00	50	08.5*	44.2 N	128.6 W	OFF COAST OF OREGON	N	4.1		1.5	15
17	00	51	53.2	11.4 S	165.6 E	SANTA CRUZ ISLANDS	N	4.5		0.9	10
17	01	07	54.3	27.4 S	63.3 W	SANTIAGO DEL ESTERO PROV., ARG. MAG. 6 1/4 (PAS), 4.8-5.2 (BRK).	588 D	5.6		0.8	147
17	01	17	20.7	14.7 S	167.2 E	NEW HEBRIDES ISLANDS FELT AT LUGANVILLE.	104	5.3		0.8	49
17	02	59	10.0	5.7 S	145.9 E	EAST NEW GUINEA REGION	41	4.9		1.1	11
17	03	21	18.3	20.2 S	177.7 W	FIJI ISLANDS REGION	500 G	4.6		0.8	34
17	04	52	31.1	11.5 S	165.5 E	SANTA CRUZ ISLANDS	N	4.5		1.0	8
17	05	29	39.1*	51.8 N	174.5 W	ANDREANOF ISLANDS, ALEUTIAN IS.	N	4.2		1.2	9
17	05	58	09.0	5.3 S	150.5 E	NEW BRITAIN REGION	153	5.0		0.9	15
17	10	25	23.7	58.3 S	25.4 W	SOUTH SANDWICH ISLANDS REGION	39	5.1		0.8	38
17	10	50	46.5	30.6 S	177.9 W	KERMADEC ISLANDS REGION	31	4.5		1.0	14
17	11	59	31.6	38.3 N	142.1 E	NEAR EAST COAST OF HONSHU, JAPAN FELT ON NORTHERN HONSHU AND SOUTHERN HOKKAIDO. MAG. 6 1/2 (PAS), 6.5 (BRK), 5.9 (CGS SURFACE WAVE).	44 D	5.8		0.9	255
17	12	26	21.8	38.2 N	142.1 E	NEAR EAST COAST OF HONSHU, JAPAN FELT IN MIYAGI AND IWATE PREFECTURES.	47	4.7		0.9	49
17	12	41	10.8	43.2 N	147.5 E	KURILE ISLANDS	22	4.0		1.2	12
17	19	50	11.7	5.1 N	77.7 W	NEAR WEST COAST OF COLOMBIA	87	4.1		1.0	10
17	19	51	04.7	11.4 S	165.5 E	SANTA CRUZ ISLANDS	19	4.9		0.9	12
17	21	10	55.5*	13.1 N	124.5 E	LUZON, PHILIPPINE ISLANDS	85	4.8		1.1	8
17	21	58	07.9	10.1 S	109.1 E	SOUTH OF JAVA	N	4.9		1.1	11
17	23	07	00.1	32.3 N	115.0 W	CALIFORNIA-MEXICO BORDER REGION 32°17.1'N, 115°2.9'W. DEPTH 10.6 KM. MAG. 3.5 (PAS). HYPOCENTER BY PASADENA.	11	4.7			12
18	04	20	53.7	48.9 N	154.9 E	KURILE ISLANDS	45 G	5.4		1.0	126
18	05	34	32.7	56.7 N	120.9 E	EASTERN RUSSIA FELT AT CHITA. MAG. 6 1/2 - 6 3/4 (PAS), 6.5 (BRK)	9	6.0		1.0	212
18	05	34	34.6	19.7 N	108.7 W	REVILLA GIGEDO ISLANDS REGION	N	4.2		1.0	11
18	06	12	00.6*	40.1 N	107.0 W	COLORADO	N	3.8		1.3	5
18	06	21	28.7	45.4 N	151.0 E	KURILE ISLANDS	38	4.5		1.0	29
18	06	58	20.4	47.3 N	122.6 W	WASHINGTON FELT AT SEATTLE, TACOMA, PUYALLUP, AND EDMONDS.	22	3.6		0.7	7
18	07	48	18.3	14.9 N	91.9 W	GUATEMALA	93	4.1		1.3	15

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MB	MAG MS	SD	N
18	08	18	22.0	52.5 N	168.2 W	FOX ISLANDS, ALEUTIAN ISLANDS MAG. 6 PAS , 5.5-5.7 (BRK).	N	5.8		1.2	182
18	08	29	03.5	42.0 N	142.6 E	HOKKAIDO, JAPAN REGION FELT AT URAKAWA, HIROO, AND OBIHIRO.	66	5.0		1.0	79
18	09	05	58.9	52.4 N	168.3 W	FOX ISLANDS, ALEUTIAN ISLANDS	N	3.8		1.2	11
18	10	23	45.3	24.0 S	66.9 W	SALTA PROVINCE, ARGENTINA	213	4.0		1.6	10
18	10	41	54.1	60.5 N	152.4 W	SOUTHERN ALASKA FELT AT HOMER.	96 D	4.5		0.9	66
18	12	35	33.1	22.7 S	172.7 E	LOYALTY ISLANDS REGION	44	4.4		1.1	14
18	13	46	35.5	58.4 S	25.7 W	SOUTH SANDWICH ISLANDS REGION	22	5.1		0.7	31
18	14	29	55.4	18.1 S	175.3 W	TONGA ISLANDS	266	4.5		0.9	29
18	15	28	02.5	47.3 N	152.1 E	KURILE ISLANDS	139	4.8		1.0	48
18	16	08	01.0	19.5 S	169.9 E	NEW HEBRIDES ISLANDS	5	4.5		1.2	11
18	17	12	45.2	36.5 N	70.9 E	HINDU KUSH REGION	189	4.4		0.7	15
18	19	46	19.7*	54.1 N	163.4 W	UNIMAK ISLAND REGION	N	4.5		0.6	13
18	21	49	22.7	48.1 N	103.0 E	MONGOLIA	13	5.3		1.0	102
19	00	58	28.8	3.3 S	135.3 E	WEST NEW GUINEA REGION	40 G	4.8		1.0	19
19	01	14	10.5*	56.3 N	153.8 W	KODIAK ISLAND REGION	N	4.1		1.6	8
19	02	12	25.3	60.7 N	147.7 W	SOUTHERN ALASKA	32	4.2		0.8	18
19	02	19	23.1	12.6 N	86.6 W	NICARAGUA	200 G	4.5		1.0	24
19	06	18	19.8*	12.5 S	166.2 E	SANTA CRUZ ISLANDS	N			1.8	5
19	10	04	07.2	30.2 N	138.8 E	SOUTH OF HONSHU, JAPAN	418	4.0		1.1	13
19	12	38	31.2	11.8 S	166.4 E	SANTA CRUZ ISLANDS	154	5.5		0.8	131
19	12	39	04.3	11.8 S	166.4 E	SANTA CRUZ ISLANDS	133	6.0		1.3	42
19	12	40	15.1	14.8 S	178.7 W	FIJI ISLANDS REGION MAG. 6 3/4 (PAS), 7.1-7.5 (BRK), 6.8 (CGS SURFACE WAVE).	N	6.3		1.2	70
19	14	10	04.1*	43.0 N	147.7 E	KURILE ISLANDS	20			0.6	6
19	14	38	44.3	55.3 N	163.1 E	OFF EAST COAST OF KAMCHATKA	N	4.5		1.1	29
19	14	41	34.5	52.4 N	169.6 W	FOX ISLANDS, ALEUTIAN ISLANDS	34	5.2		0.9	80
19	16	45	00.1	37.1 N	116.1 W	SOUTHERN NEVADA NEVADA TEST SITE. 37° 08' 37" N., 116° 08' 07" W. "NASH". SHOT ELEVATION 1086.3 METERS (AEC).	0	5.4			85
19	19	38	56.7*	62.5 N	151.8 W	CENTRAL ALASKA	82	4.1		0.7	7
19	19	43	24.4	17.0 N	85.7 W	CARIBBEAN SEA	34 D	4.7		1.2	36
19	19	46	31.3	48.7 N	155.1 E	KURILE ISLANDS	55	4.4		1.0	21
20	00	19	13.8	3.7 S	152.1 E	NEW IRELAND REGION FELT AT RABAUL, NEW BRITAIN.	18	5.0		1.3	16
20	00	22	53.8	3.9 S	152.0 E	NEW IRELAND REGION FELT AT RABAUL.	26	4.9		0.9	10
20	00	59	41.9	15.2 S	73.5 W	SOUTHERN PERU	105	4.7		0.8	19
20	01	31	09.1	11.5 S	165.9 E	SANTA CRUZ ISLANDS	24	4.5		0.8	7
20	01	57	21.6	48.1 N	103.0 E	MONGOLIA MINOR DAMAGE IN MONGOLIA-USSR BORDER REGION. MAG. 6 3/4 (PAS), 6.8-7.2 (BRK).	22 D	6.4		1.0	221
20	03	27	12.0	48.1 N	103.1 E	MONGOLIA	20	5.0		1.0	66
20	03	28	45.5	47.9 N	102.9 E	MONGOLIA	N	5.1		0.9	43
20	05	09	19.4	32.3 N	69.9 E	WEST PAKISTAN	68			1.0	10
20	05	16	38.1	32.4 N	69.9 E	WEST PAKISTAN	46	4.6		1.3	22
20	06	23	13.6	48.0 N	103.1 E	MONGOLIA	15	5.0		1.0	66
20	13	03	46.3	1.3 N	85.2 W	OFF COAST OF ECUADOR	N	4.6		1.3	16
20	17	40	04.1	37.1 N	116.0 W	SOUTHERN NEVADA NEVADA TEST SITE. 37°05'59"N., 116°00'14"W. "BOURBON" . SHOT ELEVATION 769.9 METERS (AEC).	0	5.2			62
20	21	19	35.1	48.1 N	103.1 E	MONGOLIA	9	4.5		1.3	23
20	23	04	11.0	24.2 S	67.4 W	CHILE-ARGENTINA BORDER REGION	206	4.4		1.1	10
21	00	18	16.0	44.7 N	109.8 W	YELLOWSTONE NATIONAL PARK, WYO.	N	3.6		1.3	7
21	00	41	28.6	48.1 N	103.1 E	MONGOLIA	8	4.9		1.0	45
21	01	46	19.7*	37.4 N	116.4 W	SOUTHERN NEVADA	N	3.3		0.9	5
21	02	54	00.4	49.9 S	114.9 W	EASTER ISLAND CORDILLERA MAG. 6 3/4 (PAS).	N	5.4		1.3	40
21	04	27	51.0	27.1 N	127.2 E	RYUKYU ISLANDS	60	5.0		0.8	25
21	06	11	10.4	20.8 S	169.9 E	NEW HEBRIDES ISLANDS	116	4.3		1.2	7
21	08	15	33.2	17.9 N	145.8 E	MARIANA ISLANDS	103 D	4.7		0.9	23

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
21	12	40	30.2	34.3 N	140.3 E	NEAR EAST COAST OF HONSHU, JAPAN FELT AT AJIRO.	59	4.3		0.9	24
21	13	31	29.9	3.3 N	97.3 E	NORTHERN SUMATRA	90	5.1		1.2	27
21	13	48	12.9	31.1 S	178.1 W	KERMADEC ISLANDS	60 G	4.9		1.2	29
21	15	16	37.7	16.4 S	178.7 W	FIJI ISLANDS REGION	500 G			0.7	15
21	15	26	33.3	29.7 N	139.5 E	SOUTH OF HONSHU, JAPAN	444	3.8		1.3	13
21	15	30	36.0*	1.6 N	84.9 W	OFF COAST OF ECUADOR	N	4.6		0.9	13
21	21	19	58.9	37.3 N	114.1 W	SOUTHERN NEVADA	36			1.4	11
21	23	09	50.5	5.0 S	144.7 E	NEW GUINEA	74	5.3		0.8	14
22	08	18	14.4	6.8 N	72.9 W	NORTHERN COLOMBIA FELT AT BUCARAMANGA.	159	4.7		1.0	33
22	09	21	48.8	54.3 N	169.1 E	KOMANDORSKY ISLANDS REGION	30 G	4.6		0.7	27
22	10	01	01.7	39.6 N	111.9 W	UTAH	N			1.7	10
22	10	29	59.7	53.7 N	165.2 W	FOX ISLANDS, ALEUTIAN ISLANDS	28	5.0		1.0	55
22	11	50	49.9	19.1 S	69.1 W	NORTHERN CHILE	130	4.4		1.3	18
22	12	01	46.4	48.1 N	103.1 E	MONGOLIA	15	5.2		1.0	80
22	12	09	52.6	8.7 N	93.6 E	NICOBAR ISLANDS REGION	39	4.9		1.0	49
22	12	16	01.4	48.1 N	102.9 E	MONGOLIA	25 G	4.9		0.8	35
22	12	31	58.3	11.1 S	165.4 E	SANTA CRUZ ISLANDS	23	4.2		1.0	13
22	13	42	15.3	5.6 S	153.0 E	NEW IRELAND REGION	48	5.1		0.6	8
22	14	00	27.4	35.7 N	140.7 E	NEAR EAST COAST OF HONSHU, JAPAN	43			0.8	10
22	14	21	44.4	8.0 S	147.8 E	EAST NEW GUINEA REGION	85	5.2		0.8	18
22	15	11	06.3*	12.6 N	143.9 E	SOUTH OF MARIANA ISLANDS	N	4.8		1.1	8
22	16	11	53.9	36.9 N	71.3 E	AFGHANISTAN-USSR BORDER REGION	124	4.5		1.1	15
22	17	29	22.0	20.1 S	178.2 W	FIJI ISLANDS REGION	608	3.5		1.0	11
22	19	22	00.7	0.9 S	16.0 W	NORTH OF ASCENSION ISLAND	N	4.6		1.0	19
22	21	34	35.1	16.5 S	173.8 W	TONGA ISLANDS	N	4.2		0.6	18
22	22	35	50.6	18.0 S	178.5 W	FIJI ISLANDS REGION	600 G	4.6		0.8	33
22	23	08	17.3	21.8 N	121.8 E	TAIWAN REGION FELT IN HENGCHUN DISTRICT.	61	4.9		1.1	20
23	03	09	07.9	13.1 S	168.4 E	NEW HEBRIDES ISLANDS	25 G	4.7		1.1	15
23	03	39	39.1	10.6 S	161.6 E	SOLOMON ISLANDS	50 G	5.0		0.9	10
23	05	39	14.8	39.2 N	72.0 E	KIRGIZ SSR	29			1.2	8
23	09	19	34.0	0.5 N	122.2 E	NORTHERN CELEBES	119	5.4		1.0	55
23	09	27	48.2	6.8 N	72.9 W	NORTHERN COLOMBIA	166	4.0		1.6	12
23	11	09	49.9	27.9 S	176.7 W	KERMADEC ISLANDS	45 G	5.2		0.8	26
23	11	44	02.3*	14.9 S	175.7 W	SAMOA ISLANDS REGION	312	4.3		0.5	15
23	18	34	09.7	7.2 S	144.7 E	NEAR SOUTH COAST OF NEW GUINEA	44	5.2		1.2	14
23	20	25	38.0	19.9 N	109.3 W	REVILLA GIGEDO ISLANDS REGION MAG. 5.7-5.9 (BRK).	52	5.3		0.9	73
23	20	47	56.5	1.6 S	15.6 W	NORTH OF ASCENSION ISLAND	N	5.1		1.1	34
23	21	24	12.9	19.9 N	109.3 W	REVILLA GIGEDO ISLANDS REGION	N	4.6		1.1	19
23	21	45	33.6	55.2 N	163.2 E	OFF EAST COAST OF KAMCHATKA	N	4.3		1.5	21
23	21	46	49.8*	19.9 N	109.2 W	REVILLA GIGEDO ISLANDS REGION	N	4.0		1.3	10
23	22	29	10.8	17.9 N	145.6 E	MARIANA ISLANDS	172	4.6		0.8	15
24	00	08	31.0	33.2 N	118.0 W	SOUTHERN CALIFORNIA 33°14.1'N, 117°58.1'W. DEPTH 4.4 KM. MAG. 3.7. HYPOCENTER AND MAGNITUDE BY PASADENA.	4	4.3			16
24	00	26	49.1*	18.9 S	67.9 W	BOLIVIA	209	3.7		1.6	8
24	01	44	12.4	11.3 S	165.2 E	SANTA CRUZ ISLANDS	23	4.7		0.9	12
24	03	05	39.4	41.5 N	142.0 E	HOKKAIDO, JAPAN REGION FELT ON SOUTHERN HOKKAIDO AND NORTHERN HONSHU. MAG. 5 1/4 (PAL).	69 D	5.6		1.0	183
24	03	29	20.9*	75.1 N	8.5 E	GREENLAND SEA	N	4.7		1.0	11
24	04	49	02.4	44.3 N	142.0 E	HOKKAIDO, JAPAN REGION	231	4.0		1.0	15
24	09	29	11.7	0.7 S	21.0 W	CENTRAL MID-ATLANTIC RIDGE	N	4.9		1.0	86
24	14	45	12.8	30.2 N	104.2 E	SZECHWAN PROVINCE, CHINA	10	5.3		1.1	55
24	15	19	59.5	5.6 S	153.4 E	NEW IRELAND REGION	50	5.1		1.0	10
24	15	21	53.6	0.2 S	20.4 W	CENTRAL MID-ATLANTIC RIDGE	N	5.0		1.0	16
24	22	51	05.3*	11.1 S	165.6 E	SANTA CRUZ ISLANDS	30 G	4.5		1.1	7
25	01	50	19.8	36.7 N	71.6 E	AFGHANISTAN-USSR BORDER REGION FELT IN AFGHANISTAN, NORTHERN INDIA, PAKISTAN AND TADZHIK SSR.	283 D	5.7		1.1	185
25	03	05	38.4	14.6 N	145.4 E	MARIANA ISLANDS	102	4.8		0.9	14
25	03	58	07.7	66.3 N	135.6 W	NORTHERN YUKON TERRITORY, CANADA	N	4.2		1.5	13
25	04	12	58.6	20.2 S	178.5 W	FIJI ISLANDS REGION	573	4.0		0.5	15

JAN	GMT H	M	S	LAT		LONG		REGION AND COMMENTS	DEPTH KM	CGS MAG MB MS	SD	N
25	07	31	36.9	20.8	S	178.4	W	FIJI ISLANDS REGION	542	4.5	0.7	14
25	08	18	11.9	11.5	S	165.6	E	SANTA CRUZ ISLANDS	71	4.8	1.3	13
25	09	33	09.2	7.0	N	73.1	W	NORTHERN COLOMBIA	159	4.0	1.4	13
25	10	44	27.1	19.8	S	178.1	W	FIJI ISLANDS REGION	600 G	4.5	1.1	24
25	13	08	53.2	51.9	N	175.0	E	RAT ISLANDS, ALEUTIAN ISLANDS	N	4.6	0.8	23
25	18	15	47.1	39.3	N	118.0	W	NEVADA	21	3.8	0.6	7
25	19	54	50.3*	6.4	S	129.8	E	BANDA SEA	57		1.0	8
25	21	10	26.3*	52.0	N	174.6	E	NEAR ISLANDS, ALEUTIAN ISLANDS	N	4.4	1.0	15
25	23	49	49.2	44.8	N	129.3	W	OFF COAST OF OREGON	N	4.0	1.6	12
25	23	54	54.8	48.1	N	152.8	E	KURILE ISLANDS	132	4.3	1.1	13
26	02	11	20.6	58.3	S	25.5	W	SOUTH SANDWICH ISLANDS REGION	N	5.0	0.7	39
26	03	57	46.5	6.6	S	147.7	E	EAST NEW GUINEA REGION	72	5.1	1.1	18
26	05	25	21.4	37.5	N	71.7	E	AFGHANISTAN-USSR BORDER REGION	139	4.7	0.8	11
26	06	04	34.7	21.4	N	108.9	W	REVILLA GIGEDO ISLANDS REGION MAG. 4.9-5.3 (BRK).	41	5.2	1.0	54
26	08	26	38.1	44.6	N	130.0	W	OFF COAST OF OREGON	N	4.3	1.3	11
26	09	15	14.0*	44.6	N	129.7	W	OFF COAST OF OREGON	N	3.9	1.8	10
26	10	05	03.2	24.1	N	121.7	E	TAIWAN FELT IN HWALIEN DISTRICT.	40	4.9	1.3	31
26	11	02	49.2*	29.1	N	68.4	E	WEST PAKISTAN	18	5.0	1.7	7
26	16	10	33.7	14.9	N	93.0	W	NEAR COAST OF CHIAPAS, MEXICO MAG. 5.2-5.6 (BRK).	57 D	5.4	1.1	94
26	16	11	41.7	34.6	N	10.4	E	TUNISIA SLIGHT DAMAGE AT AGAREB. FELT AT ESSGHAR, SFAX, AND MAHARES.	18	5.0	1.3	23
26	19	07	26.8*	52.9	N	168.5	W	FOX ISLANDS, ALEUTIAN ISLANDS	N	4.2	0.8	10
26	20	02	24.0	18.7	S	69.6	W	NORTHERN CHILE	119	4.2	0.9	11
26	20	18	20.4	18.9	N	103.2	W	NEAR COAST OF MICHOACAN, MEXICO FELT AT MANZANILLO.	71	4.2	1.0	21
26	20	25	39.1	11.2	S	165.6	E	SANTA CRUZ ISLANDS	38	4.8	0.9	14
27	01	54	55.4	27.9	S	67.1	W	CATAMARCA PROVINCE, ARGENTINA	178	4.5	1.5	11
27	02	19	58.2	22.5	N	120.5	E	TAIWAN FELT IN TAITUNG AND HWALIEN DISTRICTS.	27	4.9	1.3	12
27	05	06	14.0	15.1	N	92.9	W	MEXICO-GUATEMALA BORDER REGION	43	4.7	1.1	39
27	08	11	36.7	1.0	N	28.1	W	CENTRAL MID-ATLANTIC RIDGE	N	4.7	0.9	34
27	08	38	51.2	8.9	S	71.4	W	WESTERN BRAZIL	600 G	4.7	0.8	50
27	11	06	03.6*	37.4	N	114.1	W	SOUTHERN NEVADA	N		2.0	5
27	12	37	13.6	20.3	S	177.9	W	FIJI ISLANDS REGION	440 G	4.5	1.0	25
27	14	13	47.1	31.5	S	179.5	E	KERMADEC ISLANDS	470		0.9	10
27	18	57	15.8	5.3	S	103.0	E	SOUTHERN SUMATRA	40	5.3	0.9	21
27	20	13	10.2	34.2	N	116.8	W	SOUTHERN CALIFORNIA 34°10.8'N, 116°45.4'W. DEPTH 1.6 KM. MAG. 3.5. HYPOCENTER AND MAGNITUDE BY PASADENA.	2			20
28	01	40	27.9	24.8	N	121.9	E	TAIWAN FELT IN NORTHERN AND HWALIEN DISTRICTS.	96	5.1	0.9	75
28	02	58	34.3	30.2	N	69.5	E	WEST PAKISTAN	47	4.4	1.5	13
28	03	04	54.4*	51.8	N	174.5	E	NEAR ISLANDS, ALEUTIAN ISLANDS	31	4.7	0.7	19
28	07	44	24.9*	32.7	S	111.8	W	EASTER ISLAND CORDILLERA	N	4.4	0.5	14
28	08	16	21.7	59.5	N	152.4	W	SOUTHERN ALASKA	74	3.6	1.0	11
28	09	27	38.3	36.6	N	120.8	W	CENTRAL CALIFORNIA 36°38.8'N, 120°49.4'W. DEPTH 6-10 KM. MAG. 3.4 (BRK). HYPOCENTER BY BERKELEY.	8			19
28	13	43	01.3	14.6	N	92.8	W	NEAR COAST OF CHIAPAS, MEXICO	34	4.5	1.1	27
28	13	52	58.2	52.4	N	169.5	W	FOX ISLANDS, ALEUTIAN ISLANDS FELT ON UMNAK ISLAND. MAG. 6 1/4 - 6 1/2 (PAS), 6.3-6.7 (BRK), 6.7 (CGS SURFACE WAVE).	43 D	5.9	1.2	208
28	14	05	57.1	52.3	N	169.5	W	FOX ISLANDS, ALEUTIAN ISLANDS	45 G	5.0	1.2	71
28	14	23	26.1	52.4	N	169.4	W	FOX ISLANDS, ALEUTIAN ISLANDS	41	5.1	1.0	68
28	14	30	25.9	52.5	N	169.4	W	FOX ISLANDS, ALEUTIAN ISLANDS	45 G	4.9	1.1	57
28	14	41	22.8	52.4	N	169.4	W	FOX ISLANDS, ALEUTIAN ISLANDS	44	4.6	1.3	33
28	14	49	36.1	52.4	N	169.4	W	FOX ISLANDS, ALEUTIAN ISLANDS	49	4.4	1.0	17
28	15	34	21.6	52.5	N	169.4	W	FOX ISLANDS, ALEUTIAN ISLANDS	52	4.4	1.0	17
28	15	38	22.2	52.7	N	169.2	W	FOX ISLANDS, ALEUTIAN ISLANDS	47	4.0	1.3	8

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MAG MB	MS	SD	N
28	15	45	23.0*	52.3 N	169.6 W	FOX ISLANDS, ALEUTIAN ISLANDS	N	4.2		1.0	9
28	15	58	18.9	32.7 S	111.7 W	EASTER ISLAND CORDILLERA	N	4.6		0.9	15
28	16	00	06.6*	52.6 N	169.2 W	FOX ISLANDS, ALEUTIAN ISLANDS	20	3.8		1.3	6
28	16	31	22.6	52.3 N	169.3 W	FOX ISLANDS, ALEUTIAN ISLANDS	45 G	5.3		1.2	120
28	16	41	21.2	26.6 S	67.6 E	SOUTH INDIAN OCEAN	N	5.0		1.0	13
28	16	59	17.8	52.5 N	169.5 W	FOX ISLANDS, ALEUTIAN ISLANDS	38	4.5		1.0	23
28	17	13	02.6	52.6 N	169.4 W	FOX ISLANDS, ALEUTIAN ISLANDS	44	4.0		1.3	16
28	17	19	32.7	52.2 N	169.5 W	FOX ISLANDS, ALEUTIAN ISLANDS	40 G	4.9		1.2	89
28	17	26	34.4	52.3 N	169.4 W	FOX ISLANDS, ALEUTIAN ISLANDS	45 G	4.7		1.2	45
28	17	42	01.8	52.4 N	169.4 W	FOX ISLANDS, ALEUTIAN ISLANDS MAG. 6 (PAS).	50 D	5.6		1.2	152
28	18	35	39.7	5.2 N	77.2 W	NEAR WEST COAST OF COLOMBIA	135	3.9		1.3	10
28	18	53	30.5	52.4 N	169.3 W	FOX ISLANDS, ALEUTIAN ISLANDS	44	4.2		0.7	17
28	20	10	21.5	52.7 N	169.5 W	FOX ISLANDS, ALEUTIAN ISLANDS	45 G	4.2		0.9	14
28	20	48	33.4	52.4 N	169.4 W	FOX ISLANDS, ALEUTIAN ISLANDS	40	4.5		1.1	41
28	21	02	56.4	52.6 N	169.5 W	FOX ISLANDS, ALEUTIAN ISLANDS	46	4.2		0.8	19
28	22	28	06.3	55.0 N	160.2 E	KAMCHATKA	163	5.0		0.8	82
28	23	56	33.4	52.5 N	169.5 W	FOX ISLANDS, ALEUTIAN ISLANDS	27	4.6		0.9	17
29	00	12	13.3	47.9 N	14.3 E	AUSTRIA FELT IN NORTHERN AUSTRIA.	22	4.6		1.1	63
29	01	17	22.6	11.6 S	165.1 E	SANTA CRUZ ISLANDS	N	4.6		1.0	13
29	01	58	46.0	11.6 S	165.1 E	SANTA CRUZ ISLANDS	N	4.8		1.2	12
29	03	53	58.0	26.5 N	55.2 E	SOUTHERN IRAN	26	5.0		1.4	54
29	04	33	00.2	52.5 N	169.4 W	FOX ISLANDS, ALEUTIAN ISLANDS	55	4.4		0.7	17
29	07	01	34.9	48.0 N	103.0 E	MONGOLIA	N	4.9		0.9	45
29	07	05	58.8	26.5 N	55.3 E	SOUTHERN IRAN	43	4.9		1.6	16
29	07	12	05.0	26.5 N	55.3 E	SOUTHERN IRAN	N	4.7		1.2	18
29	07	56	40.3	26.5 N	55.3 E	SOUTHERN IRAN	44	5.0		1.5	82
29	09	23	39.5	52.4 N	169.6 W	FOX ISLANDS, ALEUTIAN ISLANDS	N	4.6		1.3	25
29	12	10	19.5	51.6 N	177.3 E	RAT ISLANDS, ALEUTIAN ISLANDS	N	4.3		1.2	24
29	13	20	26.1	26.4 N	55.3 E	SOUTHERN IRAN	9	4.8		1.6	11
29	15	06	40.9	22.8 N	121.3 E	TAIWAN REGION FELT IN TAITUNG AND HWALIEN DISTRICTS.	32			1.0	12
29	15	41	56.5	24.2 N	123.5 E	SOUTHWESTERN RYUKYU ISLANDS FELT IN HWALIEN DISTRICT, TAIWAN.	42	4.9		1.3	31
29	16	51	02.3	15.3 N	145.5 E	MARIANA ISLANDS	95	4.6		0.9	13
29	17	46	34.4	16.0 S	173.7 W	TONGA ISLANDS	133 D	4.5		1.0	26
29	18	27	44.1	4.6 S	77.8 W	NORTHERN PERU	74	4.2		0.9	13
29	20	11	22.9	12.0 N	88.9 W	OFF COAST OF CENTRAL AMERICA	N	4.5		1.3	18
29	20	45	09.5	45.7 N	14.2 E	YUGOSLAVIA FELT AT ILIRSKA BISTRICA.	16			1.5	6
29	22	41	57.9*	19.3 N	109.0 W	REVILLA GIGEDO ISLANDS REGION	N	4.2		0.9	9
30	01	20	27.7	41.0 N	44.3 E	WESTERN CAUCASUS FELT AT TBILISI AND STEPANAVAN.	6	5.1		1.5	96
30	02	44	20.4	19.6 N	109.0 W	REVILLA GIGEDO ISLANDS REGION	N	4.2		1.3	21
30	04	01	57.6	49.9 N	78.0 E	EASTERN KAZAKH SSR	0 G	4.8		1.0	36
30	05	54	30.8*	52.0 N	169.1 W	FOX ISLANDS, ALEUTIAN ISLANDS	19	3.9		0.9	9
30	07	09	29.8	25.4 N	90.5 E	INDIA-EAST PAKISTAN BORDER REG.	46	5.0		1.6	22
30	09	30	27.2*	12.2 N	87.6 W	NEAR COAST OF NICARAGUA	8	4.1		1.5	10
30	10	39	59.1	34.5 N	138.6 E	NEAR S. COAST OF HONSHU, JAPAN FELT AT UTSUNOMIYA.	211	4.1		1.0	31
30	12	25	02.3	39.6 N	41.4 E	TURKEY	50	4.7		1.4	46
30	13	21	59.1*	24.0 S	67.7 W	CHILE-ARGENTINA BORDER REGION	198	4.1		1.1	11
30	14	14	09.2	34.2 N	117.1 W	SOUTHERN CALIFORNIA 34°13.1'N, 117°03.4'W. DEPTH 6.1 KM. HYPOCENTER BYPASADENA. MAG. 3.0 (PAS), 3.5 (BRK).	6				17
30	14	19	33.5	4.3 N	126.0 E	TALAUD ISLANDS	123	5.1		1.2	19
30	18	32	43.5	52.2 N	169.6 W	FOX ISLANDS, ALEUTIAN ISLANDS	40 G	4.5		1.0	19
30	20	11	39.0	25.3 N	124.7 E	NORTHEAST OF TAIWAN	129	4.8		1.3	15
30	21	05	31.3	26.1 N	96.1 E	BURMA	51	5.5		1.0	112
30	23	09	02.1	8.4 S	159.2 E	SOLOMON ISLANDS	93	5.2		1.7	8
31	00	15	40.5*	8.9 S	118.9 E	SUMBAWA ISLAND REGION	144	4.5		0.8	12
31	03	35	34.6	48.0 N	103.0 E	MONGOLIA	20 G	4.9		1.0	56
31	06	45	02.7	24.1 S	67.1 W	CHILE-ARGENTINA BORDER REGION	198	4.3		1.4	14
31	07	20	35.8	16.8 S	167.8 E	NEW HEBRIDES ISLANDS	57			0.2	5

JAN	GMT H	M	S	LAT	LONG	REGION AND COMMENTS	DEPTH KM	CGS MB	MAG MS	SD	N
31	07	32	02.3	33.2 N	140.8 E	SOUTH OF HONSHU, JAPAN	N	4.6		1.0	10
31	09	57	47.1	2.0 S	125.6 E	CERAM SEA	30 G	5.0		1.2	24
31	13	24	26.1	13.8 N	120.8 E	MINDORO, PHILIPPINE ISLANDS	196	4.8		1.1	23
31	13	25	25.2	11.2 S	166.7 E	SANTA CRUZ ISLANDS	111	4.0		1.4	7
31	13	37	32.5	2.8 N	84.4 W	OFF COAST OF CENTRAL AMERICA	22 D	5.5		1.0	82
31	17	43	57.3	42.9 N	145.5 E	HOKKAIDO, JAPAN REGION FELT AT NEMURO, KUSHIRO, OBSHIRO, AND HIROO.	51	5.2		1.2	112
31	19	00	26.3	26.6 N	55.2 E	SOUTHERN IRAN	37	5.1		1.3	61
31	20	06	36.3	26.4 N	55.3 E	SOUTHERN IRAN	20	5.0		1.2	19
31	20	52	48.2*	26.6 N	55.4 E	SOUTHERN IRAN	27			2.0	7
31	20	58	15.8	24.0 N	121.7 E	TAIWAN FELT IN HWALIEN DISTRICT.	36	4.8		1.0	25

STATIONS REPORTING-

						AAE	AAM	ABE	ABJ	ADE	ADK	AFI	AHU	AIA	AIK	AJI	AKU
ALE	ALG	ALI	ALQ	ALS	AMU	ANK	ANP	ANR	ANT	AOM	APA	ARC	ARE	ASA	ASH	ATH	AVE
BAG	BAR	BAS	BCN	BCU	BDB	BEO	BER	BES	BGO	BHA	BHK	BHP	BIG	BKR	BKS	BLA	BLL
BMO	BNG	BNH	BNS	BOD	BOG	BOK	BOM	BOZ	BRA	BRK	BRS	BRW	BUC	BUD	BUL	BUT	BVC
BZM	CAL	CAN	CAR	CBM	CED	CHA	CHC	CHG	CHH	CHK	CHN	CHO	CHT	CHZ	CIN	CLC	CLE
CLK	CLL	CMC	CMP	CNG	COL	COM	CON	COP	COR	CPO	CPP	CRC	CSC	CTA	CWC	DAR	DAV
DBN	DCC	DDI	DDR	DEN	DOU	DRV	DSH	DUG	DUR	EBM	EBR	EDM	EMM	ERZ	ESA	ESC	ESK
EUR	FAY	FBC	FEA	FEL	FGU	FK-	FKK	FLA	FLG	FLN	FOR	FRG	FRU	FTC	FUK	FUN	FUR
GAR	GCA	GCC	GDH	GEO	GLA	GNZ	GOL	GOT	GRH	GRR	GRS	GSC	GUA	GUM	HAC	HAK	HAY
HCU	HEI	HEN	HHM	HIK	HIR	HKC	HLE	HLW	HMD	HMM	HN-	HNR	HON	HOO	HSI	HSN	HUA
HVO	HWA	HYD	IFR	IID	ILA	ILG	IRK	ISA	ISK	ISN	ISO	IST	JAS	JER	KAK	KAR	KAS
KAT	KAU	KER	KEV	KFC	KHC	KHE	KHO	KIM	KIP	KIR	KIS	KJN	KLG	KLS	KLY	KN-	KOC
KOD	KON	KOU	KRA	KRK	KRL	KRP	KRU	KRV	KRZ	KSA	KTG	KUL	KUR	KUS	KYO	KYS	LAH
LAO	LAW	LAY	LE1	LE2	LE4	LF1	LF2	LF3	LF4	LHN	LIC	LIS	LJU	LLA	LNM	LNR	LNS
LOG	LOM	LON	LOR	LPA	LPB	LPS	LUB	LUG	LVN	LVV	LWI	MAE	MAG	MAK	MAL	MAN	MAT
MAU	MAW	MAZ	MBC	MBO	MCQ	MDR	MDY	MER	MES	MFP	MGL	MHC	MID	MIM	MIN	MIR	MIS
MIT	MIY	MIZ	MN-	MNL	MNT	MNW	MNY	MNZ	MO-	MOO	MOS	MOX	MRG	MRK	MRR	MRT	MSH
MSS	MTM	MUN	MWC	NAG	NAI	NAT	NDI	NEM	NEW	NGN	NHA	NIE	NII	NNA	NOR	NOU	NP-
NRR	NUR	NVL	OAX	OBI	OBM	OFU	OIS	OKA	OKH	ONA	ONE	ORV	OSA	OSH	OTT	OUA	OUL
OXF	PAL	PAS	PAT	PAU	PBA	PBJ	PCC	PCU	PDA	PEI	PEL	PET	PG-	PIE	PLM	PMG	PMR
PNG	PNS	POO	PPT	PRA	PRE	PRI	PRK	PRS	PRT	PRU	PRZ	PTO	PUL	PVC	PYA	QUE	QUI
RAB	RAC	RAO	RAR	RAV	RBA	RBN	RCC	RCD	RED	REN	RES	REY	RHO	RIV	RK-	ROM	RSL
RVR	SAM	SAN	SAO	SAP	SAV	SBA	SBC	SCM	SCP	SDB	SDM	SEA	SEH	SEL	SEM	SEN	SEO
SET	SFR	SHI	SHK	SHL	SHO	SHR	SID	SIM	SIT	SIU	SJG	SKA	SKO	SKR	SLC	SLD	SLN
SNA	SNC	SNG	SNM	SOC	SOD	SOF	SPA	SPN	SPO	SSC	SSF	SSS	STC	STR	STU	SUM	SVE
SV3	SWM	TAB	TAC	TAI	TAM	TAN	TAP	TAS	TAU	TAW	TBL	TCU	TEH	TEN	TFO	THT	TIF
TIK	TIN	TJC	TKD	TKM	TKS	TKY	TLG	TMS	TNN	TNP	TOC	TOK	TOL	TOO	TOP	TOY	TRI
TRN	TRO	TRR	TSK	TTN	TUC	TUL	TUM	TYK	UBO	UCC	UDD	UGL	UKI	UME	UPP	URA	UVN
UZH	VAL	VAM	VAN	VCM	VHM	VIC	VIE	VIS	VLA	VLS	WAK	WDY	WEL	WES	WH2	WIN	WIT
WKE	WKU	WKY	WMO	WRA	WRS	WSC	YAK	YAM	YLA	YOK	YSS	YUK	YUS	ZAG	ZON.		

Date and Station	Phase	(GCT) h m s
JAN 1		
COL	EP	00 17 31.0
JAN 1		
H-00 21 04.6		
12.0S 166.2E		
h ABOUT 17KM		
COL	EP	00 33 35.5
SLD	E(P)	00 33 43.5
BRW	EP	00 33 49.5
EUR	IP	00 33 57.5
BMO	EP	00 33 59.7
	E	34 31.6
NEW	EP	00 34 05.0
BCN	E(P)	00 34 09.2
HHM	E(P)	00 34 14.8
	E	34 33.8
ALQ	E(P)	00 34 27.5
BOZ	E(P)	00 34 33.0
SJG	EP'	00 40 20.0
JAN 1		
COL	EP	00 25 42.0
JAN 1		
COL	EP	00 40 53.0
JAN 1		
COL	E(P)	00 45 02.7
ALQ	E(P)	00 49 28.5
ALQ	E(P)	00 51 22.0
JAN 1		
BMO	EP	01 05 09.4
JAN 1		
H-01 05 46.5		
.0S 126.0E		
h ABOUT 33KM		
BRW	EP	01 18 26.0
COL	E(P)	01 18 37.8
JAN 1		
BMO	E(P)	01 18 47.0
JAN 1		
H-02 19 47.1		
19.1S 173.4W		
h ABOUT 33KM		
BMO	E(P)	02 32 12.0
COL	EP	02 32 25.0
JAN 1		
H-02 59 35.9		
11.0N 93.1E		
h ABOUT 70KM		
BRW	EP	03 12 10.5
BMO	EP'	03 18 17.3
ALQ	EP'	03 18 43.0
	ESKP	22 00.6
SJG	EP'	03 19 19.5
JAN 1		
EUR	EP	03 12 19.9
ALQ	EP	03 13 12.0
JAN 1		
H-03 13 19.3		
12.0S 166.1E		
h ABOUT 43KM		
COL	IP	03 25 47.2
EUR	EP	03 26 06.0
BMO	EP	03 26 11.6
JAN 1		
BMO	E(P)	03 19 42.6
ALQ	EP	03 22 00.6
	E	22 33.0
JAN 1		
COL	EP	03 21 26.5
JAN 1		
BMO	E(P)	03 43 40.4
JAN 1		
H-04 04 03.3		
12.0S 166.0E		
h ABOUT 9KM		
COL	EP	04 16 35.0
EUR	EP	04 16 57.8
BMO	EP	04 16 59.6
JAN 1		
GUA	EP	04 16 13.0
	E(S)	18 30.0
JAN 1		
BMO	EP	04 34 36.2
JAN 1		
NEW	EP	06 59 50.0
JAN 1		
H-07 05 50.2		
15.2S 173.7W		
h ABOUT 40KM		
HON	IP D	07 13 18.0
	IS	19 24.0
KIP	IP C	07 13 19.0
	I	14 06.0
GUA	E(P)	07 14 48.0
	ES	21 04.0
ADK	EP	07 16 38.8
SLD	IP D	07 17 10.0
	IPCP	17 30.3
	IPP	19 49.1
BCN	EP	07 17 30.7
	E	17 32.7
TUC	EP	07 17 36.1
	ES	27 21.0
EUR	IP D	07 17 36.8
	EPP	20 28.1
GCA	EP	07 17 46.2
BMO	IP	07 17 48.7
NEW	EP	07 17 59.0
ALQ	IP D	07 18 01.8
	E	18 22.0
	ES	28 12.0
COL	EP C	07 18 06.2
	I	18 07.7
	EPP	21 20.2
	ES	28 20.5
	EL	40 45.0
BUT	EP	07 18 07.5
	EPP	21 16.5
BOZ	EP	07 18 08.5
	EpP	18 22.5
	EPP	21 20.5
	EP'P'	43 24.5
HHM	EP	07 18 09.0
	EPP	21 17.8
BRW	EP	07 18 32.5
	EPP	21 57.5
RCD	EP	07 18 34.5
	E	18 45.0
	ES	29 00.0
CSC	EPP	07 23 39.0
	ESKS	30 14.0
JAN 1		
H-07 40 11.8		
17.1S 172.8W		
h ABOUT 40KM		
TUC	EP	07 52 03.5
	EpP	52 15.0
EUR	EP	07 52 04.4
BMO	EP	07 52 16.4
	EpP	52 28.1
ALQ	E(P)	07 52 27.5
COL	EP	07 52 37.0
JAN 1		
H-07 45 52.9		
12.2S 166.1E		
h ABOUT 27KM		
COL	EP	07 58 22.0
BCN	EP	07 58 43.2
EUR	IP	07 58 45.5
BMO	EP	07 58 52.0
	E	59 25.6
JAN 1		
H-08 11 15.1		
12.1S 166.0E		
h ABOUT 54KM		
COL	EP	08 23 42.0
EUR	E(P)	08 24 05.0
BMO	EP	08 24 05.9
JAN 1		
BMO	EP	08 28 37.5
EUR	IP	08 28 39.2
ALQ	E(P)	08 28 46.0
JAN 1		
BMO	E(P)	08 42 01.3
JAN 1		
H-08 45 35.9		
20.6S 178.2W		
h ABOUT 550KM		
ADK	EP	08 56 04.6
EUR	EP	08 57 06.5
TUC	E(P)	08 57 06.8
BMO	EP	08 57 17.2
ALQ	E(P)	08 57 26.0
COL	IP	08 57 29.3
JAN 1		
H-08 54 16.7		
11.6S 165.9E		
h ABOUT 33KM		
COL	EP	09 06 43.0
JAN 1		
H-08 55 14.5		
12.2S 166.0E		
h ABOUT 18KM		
EUR	E(P)	09 08 06.5
BMO	E(P)	09 08 13.0
JAN 1		
BMO	EP	08 54 31.6
COL	EP	08 54 56.5
EUR	EP	08 55 04.0
JAN 1		
BMO	E(P)	08 59 16.1
ALQ	E(P)	08 59 22.0

Date and Station	Phase (GCT)
	h m s
JAN 1	
ALQ E(P)	09 09 10.0
E	09 25.0
JAN 1	
BMO EP	09 15 17.6
JAN 1	
COL EP	09 27 02.0
JAN 1	
H-09 55 11.3	
17.2S 70.7W	
h ABOUT 123KM	
BMO EP	10 06 41.2
JAN 1	
COL EP	10 35 52.0
JAN 1	
COL E(P)	10 47 51.5
JAN 1	
H-10 26 19.1	
11.8S 166.3E	
h ABOUT 33KM	
COL EP	10 38 46.8
EUR EP	10 38 56.9
JAN 1	
BMO EP	11 00 46.0
JAN 1	
H-11 15 47.9	
12.6S 166.1E	
h ABOUT 31KM	
COL E(P)	11 28 19.0
JAN 1	
H-12 14 04.0	
55.1S 126.7W	
h ABOUT 33KM	
TUC E(P)	12 26 52.5
ALQ EP	12 27 07.5
EUR IP	12 27 23.2
JAN 1	
H-12 53 30.3	
11.7S 165.9E	
h ABOUT 37KM	
COL EP	13 05 56.1
BMO E(P)	13 06 08.9
JAN 1	
H-13 04 57.0	
11.3S 166.1E	
h ABOUT 50KM	
COL EP	13 17 18.1
EUR EP	13 17 44.0
EpP	17 58.7
JAN 1	
COL EP	13 08 48.2

Date and Station	Phase (GCT)
	h m s
JAN 1	
BMO EP	13 13 16.2
E	13 39.1
JAN 1	
H-13 13 39.0	
25.2S 70.6W	
h ABOUT 17KM	
ALQ EP	13 24 45.1
BMO EP	13 25 57.8
JAN 1	
H-13 18 27.1	
11.6S 165.3E	
h ABOUT 31KM	
COL EP	13 30 55.0
EUR IP	13 31 20.3
BMO EP	13 31 21.8
NEW EP	13 31 27.0
TUC EP	13 31 30.5
ALQ E(P)	13 31 48.0
JAN 1	
H-13 26 48.2	
12.1S 166.0E	
h ABOUT 42KM	
COL E(P)	13 39 16.0
JAN 1	
COL EP	13 47 40.6
JAN 1	
COL EP	14 02 57.0
JAN 1	
H-14 18 47.4	
12.4S 165.9E	
h ABOUT 11KM	
COL E(P)	14 31 20.0
EUR EP	14 31 46.5
JAN 1	
GUA E(P)	14 29 25.0
ES	34 11.0
JAN 1	
H-14 38 13.9	
12.4S 165.6E	
h ABOUT 33KM	
COL EP	14 50 45.5
JAN 1	
COL EP	15 14 38.0
JAN 1	
H-15 53 50.7	
43.1N 146.9E	
h ABOUT 29KM	
COL EP	16 01 38.0

Date and Station	Phase (GCT)
	h m s
EUR EP	16 04 55.0
E	05 06.2
JAN 1	
COL E(P)	16 45 36.5
JAN 1	
COL E(P)	17 13 14.1
JAN 1	
COL IP	17 34 31.3
JAN 1	
H-17 40 19.1	
49.2S 108.6E	
h ABOUT 33KM	
TUC EP'	17 59 57.0
EUR IP'	18 00 00.1
BMO EP'	18 00 03.5
NEW EP'	18 00 07.0
ALQ EP'	18 00 08.9
BOZ EP'	18 00 14.5
JAN 1	
COL IP	17 54 22.4
JAN 1	
BHP IP D	18 00 34.5
IS	01 00.5
JAN 1	
BCN EP	18 14 56.7
JAN 1	
EUR EP	19 14 47.6
JAN 1	
GUA IP	20 16 22.0
ES	16 34.0
JAN 1	
EUR EP	20 31 55.5
IL	32 28.3
JAN 1	
H-20 45 28.4	
12.0S 165.9E	
h ABOUT 46KM	
COL EP	20 57 51.5
EUR EP	20 58 18.3
EpP	58 30.4
JAN 1	
COL IP	20 45 38.5
JAN 1	
COL IP C	21 42 35.4
E(S)	43 38.0
JAN 1	
TUC IP	21 56 33.7
EL	56 51.0

Date and Station	Phase (GCT)
	h m s
JAN 1	
H-21 58 53.6	
11.2S 165.6E	
h ABOUT 5KM	
HON E(P)	22 07 43.0
IS	14 44.0
COL IP	22 11 22.3
SLD EP	22 11 25.5
EUR IP C	22 11 47.3
I	12 23.8
EPP	14 50.4
BCN EP	22 11 47.7
BMO EP	22 11 49.7
NEW EP	22 11 55.0
TUC EP	22 11 58.0
ES	22 38.0
SLC EP	22 12 04.4
E	12 13.2
BUT EP	22 12 06.4
BOZ EP	22 12 09.5
E	12 15.0
ALQ EP	22 12 18.0
EPP	16 04.0
ESKS	22 25.0
SJG IP'D	22 18 05.7
I	18 10.2
ESKP	21 28.0
JAN 1	
COL IP	22 15 17.2
JAN 1	
ADK EP	22 26 01.2
COL EP	22 26 34.0
BMO E(P)	22 30 48.6
JAN 1	
COL IP	22 30 41.3
JAN 1	
COL EP	22 33 05.0
JAN 1	
COL EP	22 38 16.0
JAN 1	
COL IP	22 41 59.5
JAN 1	
UKI (PN)	22 48 22.4
JAN 1	
COL EP	22 54 40.0
JAN 1	
ALQ E(P)	23 06 05.6
EL	06 32.8

Date and Station	Phase (GCT)
	h m s
GCA E(P)	23 06 17.5
I	06 37.5
ELG	07 24.0
TUC EPN	23 07 12.4
EL	08 19.0
JAN 1	
UKI (PN)	23 24 40.0
JAN 2	
SJG EP	00 11 39.3
E	11 48.2
ALQ E(P)	00 14 28.5
EUR E(P)	00 15 11.0
BMO EP	00 15 35.2
COL E(P)	00 19 15.5
JAN 2	
H-00 39 51.1	
12.3S 165.7E	
h ABOUT 40KM	
COL EP	00 52 20.5
E	52 33.5
JAN 2	
GUA IP	01 04 35.0
IS	04 48.0
JAN 2	
COL EP	01 07 53.0
EUR IP	01 08 32.2
BMO EP	01 08 41.6
JAN 2	
GUA E(P)	01 18 47.5
FS	19 01.0
JAN 2	
COL E(P)	01 08 14.5
JAN 2	
BMO EP	01 17 03.6
JAN 2	
H-01 18 26.9	
11.4S 165.6E	
h ABOUT 33KM	
COL EP	01 30 54.0
JAN 2	
COL EP	01 24 17.7
JAN 2	
NEW EP	01 55 56.0
JAN 2	
BMO EP	02 06 28.7
JAN 2	
COL EP	02 11 28.0
JAN 2	
GUA IP	02 17 06.0
IS	17 20.0

Date and Station	Phase (GCT)
	h m s
JAN 2	
GUA IP	02 29 23.0
IS	29 37.0
JAN 2	
BMO EP	02 29 34.6
COL E(P)	02 30 02.5
JAN 2	
NEW EP	02 41 49.0
BMO EP	02 41 52.3
JAN 2	
H-02 35 14.9	
11.5S 165.2E	
h ABOUT 30KM	
COL IP	02 47 41.9
EUR IP D	02 48 07.5
BCN E(P)	02 48 08.2
TUC EP	02 48 18.5
BOZ E(P)	02 48 28.5
JAN 2	
COL EP	02 49 15.4
JAN 2	
COL EP	02 50 02.0
I	52 08.1
EUR IP	02 50 27.5
BCN EP	02 50 28.2
TUC EP	02 50 38.5
BOZ EP	02 51 16.5
JAN 2	
GUA IP	03 04 14.0
IS	04 28.0
JAN 2	
COL EP	03 10 33.0
JAN 2	
COL EP	03 34 47.7
JAN 2	
H-03 43 04.6	
12.1S 165.9E	
h ABOUT 42KM	
COL EP	03 55 32.5
JAN 2	
EUR EP	03 56 16.7
JAN 2	
COL EP	04 26 45.0
NEW EP	04 30 21.0
JAN 2	
H-04 42 07.4	
66.2N 153.8W	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
COL EP	04 42 49.0
IL	43 40.0
BRW EP	04 43 24.5
ES	44 29.5
BMO E(P)	04 48 05.9
JAN 2	
H-04 45 27.9	
50.2N 155.6E	
h ABOUT 122KM	
COL EP	04 51 46.7
EUR EP	04 55 24.7
EpP	55 54.2
JAN 2	
SJG IP C	04 56 43.8
IS	57 08.5
JAN 2	
SLD E(P)	05 06 10.2
EL	06 35.7
JAN 2	
COL EP	05 13 51.5
JAN 2	
SLD E(P)	05 16 24.9
EL	16 44.9
JAN 2	
COL IP	05 56 21.0
IS	56 49.0
BRW IP C	05 57 09.0
I(S)	57 56.5
JAN 2	
GUA EP	06 26 48.0
ES	27 07.0
JAN 2	
SJG EP	06 28 26.0
IS	28 51.2
JAN 2	
BMO EP	06 39 09.3
EUR EP D	06 39 20.5
JAN 2	
COL E(P)	06 51 58.0
BMO EP	06 52 23.2
JAN 2	
H-06 53 18.2	
25.0S 70.9W	
h ABOUT 37KM	
SJG IP C	07 01 14.3
ES	07 34.0
ESCS	10 57.0
TUC EP	07 04 19.0
EpP	04 29.0
ALQ EP	07 04 19.2
EpP	04 28.8
ES	13 20.0

Date and Station	Phase (GCT)
	h m s
BCN EP	07 04 49.8
EpP	04 59.3
EUR IP	07 05 08.6
SLD EP	07 05 14.8
IpP	05 23.6
BOZ EP	07 05 22.5
E	05 34.5
BUT EP	07 05 27.8
EpP	05 37.9
BMO EP	07 05 32.3
EpP	05 43.0
HHM EP	07 05 39.2
EpP	05 49.1
NEW EP	07 05 46.0
IpP	05 55.0
COL EpP	07 07 41.5
JAN 2	
SJG IP	07 27 15.4
IS	27 34.0
JAN 2	
H-07 32 07.8	
11.6S 165.6E	
h ABOUT 30KM	
COL EP	07 44 34.0
EUR EP	07 45 00.0
BMO EP	07 45 01.0
JAN 2	
H-07 45 50.4	
13.9N 145.6E	
h ABOUT 95KM	
GUA IP	07 46 09.0
IS	46 22.0
COL EP	07 56 36.5
BMO EP	07 58 17.7
EpP	58 41.5
HHM E(P)	07 58 23.9
EUR EP	07 58 31.5
JAN 2	
COL EP	07 46 32.0
JAN 2	
NEW EP	08 11 18.0
JAN 2	
H-08 19 36.7	
32.4N 22.7E	
h ABOUT 33KM	
COL EP	08 32 08.1
NEW EP	08 32 46.0
BMO EP	08 32 58.6

Date and Station	Phase (GCT)
	h m s
JAN 2	
H-08 38 14.3	
53.3N 164.8W	
h ABOUT 33KM	
ADK EPN	08 40 01.6
ES	41 22.5
COL E(P)	08 41 39.0
EUR IP C	08 45 11.8
JAN 2	
H-08 49 32.7	
12.3S 165.6E	
h ABOUT 33KM	
COL IP	09 02 02.1
EUR EP C	09 02 26.7
BMO E(P)	09 07 28.0
JAN 2	
H-09 11 02.2	
37.3N 114.2W	
h ABOUT 33KM	
BCN IP D	09 11 26.8
EL	11 45.3
GCA EP	09 11 37.1
IS	12 03.5
EUR IP	09 11 42.1
SLC E(P)	09 12 08.7
E	12 18.8
TUC IP	09 12 27.8
EL	14 04.0
ALQ EP	09 12 40.5
E	13 05.6
EL	14 28.0
BMO EP	09 12 57.9
BOZ (PN)	09 13 11.5
EL	15 24.5
JAN 2	
SLD EP	09 13 41.8
EL	14 56.6
JAN 2	
NEW EP	09 16 56.0
JAN 2	
H-09 47 53.6	
10.1S 28.2E	
h ABOUT 28KM	
COL EP'	10 06 52.0
BMO EP'	10 06 57.8
E	07 12.4
EUR EP'	10 07 04.7
I	07 16.2
BOZ EP'	10 07 05.0
TUC EP'	10 07 05.0

Date and Station	Phase (GCT)
	h m s
ALQ EP'	10 07 07.5
JAN 2	
H-10 00 23.0	
11.9S 165.1E	
h ABOUT 30KM	
COL EP	10 12 53.0
BMO E(P)	10 13 09.3
EUR E(P)	10 13 16.5
JAN 2	
BMO E(P)	10 08 37.7
COL EP	10 08 42.5
JAN 2	
BMO E(P)	10 09 42.9
JAN 2	
COL EP	10 15 22.0
JAN 2	
BMO EP	10 21 22.8
JAN 2	
H-10 24 29.8	
11.7S 166.1E	
h ABOUT 33KM	
COL EP	10 36 56.5
EUR E(P)	10 37 19.5
JAN 2	
EUR EP	10 26 32.0
EL	27 04.7
JAN 2	
H-10 31 21.0	
29.8N 69.1E	
h ABOUT 17KM	
COL EP	10 43 37.0
JAN 2	
H-10 57 53.7	
25.1S 70.4W	
h ABOUT 33KM	
ALQ EP	11 08 57.0
EUR E(P)	11 09 47.5
BMO EP	11 10 11.2
JAN 2	
NEW IP	11 52 26.6
JAN 2	
SJG IP C	12 10 16.0
IS	10 40.5
JAN 2	
COL E(P)	12 16 02.5
BMO EP	12 18 22.7
JAN 2	
BMO E(P)	12 28 03.3

Date and Station	Phase (GCT)
	h m s
JAN 2	
COL EP	13 11 45.5
JAN 2	
COL EP	13 32 48.5
JAN 2	
H-13 49 19.2	
11.3S 165.8E	
h ABOUT 37KM	
COL IP	14 01 44.6
EUR E(P)	14 02 07.5
BMO EP	14 02 10.5
JAN 2	
H-13 50 07.1	
30.6N 50.4E	
h ABOUT 47KM	
COL IP	14 02 33.2
JAN 2	
BMO EP	14 07 29.3
JAN 2	
H-14 47 12.1	
20.1N 122.3E	
h ABOUT 33KM	
COL EP	14 58 35.0
BMO EP	15 00 32.6
JAN 2	
NEW EP	15 09 41.0
COL EP	15 13 35.0
JAN 2	
H-15 11 13.3	
12.1S 165.9E	
h ABOUT 24KM	
COL EP	15 23 43.0
EUR E(P)	15 24 16.0
JAN 2	
SJG EP	15 50 30.0
IS	51 03.0
JAN 2	
COL EP	15 59 30.2
JAN 2	
H-16 22 40.2	
24.4S 67.1W	
h ABOUT 174KM	
BMO EP	16 34 46.1
JAN 2	
BMO EP	16 27 07.2
JAN 2	
NEW EP	16 43 23.0
JAN 2	
SJG IP	17 03 11.8
IS	03 30.0

Date and Station	Phase (GCT)
	h m s
JAN 2	
H-17 11 45.8	
11.6S 166.7E	
h ABOUT 50KM	
COL IP	17 24 08.0
JAN 2	
COL EP	17 21 45.0
JAN 2	
EUR EP	17 51 14.5
BMO EP	17 51 46.4
JAN 2	
H-17 44 30.0	
11.9S 166.0E	
h ABOUT 33KM	
COL E(P)	17 56 57.5
JAN 2	
COL E(P)	18 05 49.0
JAN 2	
H-18 16 19.0	
59.8N 152.4W	
h ABOUT 66KM	
COL IP D	18 17 40.0
IS	18 39.5
BMO EP	18 21 45.9
E	22 05.8
EUR E(P)	18 22 26.5
JAN 2	
SLD EP	19 15 30.3
EL	15 59.2
JAN 2	
H-19 59 58.7	
12.4S 166.4E	
h ABOUT 35KM	
GUA EP	20 06 38.0
ES	11 57.0
HON E(P)	20 08 46.0
ES	15 57.0
COL EP	20 12 28.0
SLD E(P)	20 12 39.3
EUR EP D	20 12 49.2
E	13 16.0
EPP	16 18.3
BCN E(P)	20 12 50.9
BMO EP	20 12 53.2
E	13 23.4
TUC E(P)	20 12 57.0
NEW EP	20 13 00.0
EPP	13 11.0
BOZ E(P)	20 13 11.0
ES	24 20.0
EL	44 00.0

Date and Station	Phase	Phase (GCT) h m s
JAN 2		
NEW	EP	20 03 14.0
JAN 2		
H-20 20 14.0		
11.8S 165.3E		
h ABOUT 26KM		
COL	EP	20 32 43.0
EUR	IP	20 33 09.2
BOZ	E(P)	20 33 29.0
JAN 2		
BMO	E(P)	20 31 14.7
JAN 2		
H-20 40 15.9		
12.3S 166.3E		
h ABOUT 35KM		
COL	EP	20 52 44.0
EUR	EP	20 53 07.3
	EpP	53 18.5
BMO	EpP	20 53 20.3
JAN 2		
COL	EP C	21 23 16.7
JAN 2		
H-22 09 47.3		
58.3N 151.5W		
h ABOUT 33KM		
COL	EP	22 11 25.0
	EL	13 16.0
NEW	EP	22 14 46.0
HHM	E(P)	22 15 00.9
BMO	EP	22 15 08.8
EUR	E(P)	22 15 49.5
JAN 2		
H-22 17 56.3		
30.6N 79.3E		
h ABOUT 25KM		
COL	EP	22 29 54.5
JAN 2		
COL	IP	22 59 03.1
JAN 2		
H-23 01 37.8		
11.9S 165.2E		
h ABOUT 25KM		
COL	EP	23 14 07.0
EUR	EP	23 14 31.9
BMO	EP	23 14 34.5
JAN 2		
SLD	E(P)	23 32 10.0
	EL	32 30.3

Date and Station	Phase	Phase (GCT) h m s
JAN 2		
COL	EP	23 42 53.0
JAN 2		
H-23 49 39.0		
11.2S 165.4E		
h ABOUT 35KM		
COL	EP	24 02 05.0
EUR	EP	24 02 29.8
JAN 2		
H-23 55 34.1		
11.7S 165.2E		
h ABOUT 18KM		
COL	IP	24 08 04.0
SLD	IP C	24 08 07.0
EUR	IP	24 08 29.0
BMO	EP	24 08 31.4
TUC	EP	24 08 40.1
BOZ	EP	24 08 50.5
JAN 2		
BHP	IP	23 56 13.0
	IS	56 51.3
JAN 3		
H-00 25 07.4		
42.0N 142.4E		
h ABOUT 33KM		
BMO	E(P)	00 36 06.6
EUR	EP	00 36 37.0
JAN 3		
COL	EP	01 19 52.5
JAN 3		
COL	E(P)	01 26 24.5
JAN 3		
H-01 40 45.7		
17.7S 172.4E		
h ABOUT 37KM		
COL	EP	01 53 32.0
EUR	EP	01 53 32.1
BMO	EP	01 53 38.5
JAN 3		
BMO	EP	02 11 16.6
COL	EP	02 12 05.8
JAN 3		
COL	E(P)	02 29 10.0
BOZ	E(P)	02 31 31.5
JAN 3		
H-02 50 14.6		
25.4N 140.6E		
h ABOUT 157KM		

Date and Station	Phase	Phase (GCT) h m s
COL	EP	03 00 03.0
BMO	EP	03 02 10.6
JAN 3		
COL	EP	02 53 32.0
JAN 3		
BMO	EP	03 39 53.5
JAN 3		
H-03 47 58.5		
25.4S 69.7W		
h ABOUT 20KM		
TUC	E(P)	03 59 12.5
JAN 3		
BMO	E(P)	03 59 25.5
JAN 3		
COL	EP	04 12 47.0
JAN 3		
H-04 36 02.5		
11.2S 165.6E		
h ABOUT 25KM		
COL	IP	04 48 30.0
EUR	EP	04 48 54.3
BMO	EP	04 48 55.8
JAN 3		
COL	E(P)	04 39 03.0
JAN 3		
H-04 55 57.5		
1.3S 77.7W		
h ABOUT 195KM		
SJG	EP	05 00 40.0
EUR	IP D	05 05 01.0
	IsP	06 05.0
SLD	IP C	05 05 14.8
BMO	EP	05 05 30.0
JAN 3		
NEW	EP	04 58 52.0
JAN 3		
BMO	EP	05 21 39.7
COL	EP	05 25 21.0
JAN 3		
H-05 23 48.9		
11.9S 165.2E		
h ABOUT 59KM		
COL	IP	05 36 14.4
EUR	EP	05 36 39.5
BCN	EP	05 36 40.9
BMO	EP	05 36 41.3
TUC	EP	05 36 51.0

Date and Station	Phase	Phase (GCT) h m s
SLC	EP	05 36 56.0
JAN 3		
H-05 28 29.5		
60.9N 151.5W		
h ABOUT 94KM		
COL	IP	05 29 36.2
NEW	IP	05 33 30.2
	E	33 57.0
HHM	EP	05 33 43.0
	E	34 13.0
	ES	37 55.7
BMO	IP	05 33 52.6
	E	34 31.0
BUT	EP	05 34 04.5
	EPCP	36 57.6
SLD	EP C	05 34 36.0
	I	36 17.1
EUR	IP D	05 34 36.5
	I	36 39.5
TUC	EP	05 35 47.0
SJG	E(P)	05 39 53.5
	E	40 13.5
JAN 3		
GUA	IP	05 30 27.0
	IS	30 41.0
JAN 3		
H-05 35 44.2		
11.1S 165.6E		
h ABOUT 18KM		
HON	IP C	05 44 27.0
	IS	51 36.0
GUA	ES	05 47 12.0
COL	EP	05 48 10.0
	ES	58 44.0
SLD	EP	05 48 12.5
EUR	IP	05 48 35.4
BCN	EP	05 48 35.9
BMO	IP	05 48 37.9
NEW	EP	05 48 43.0
TUC	E(P)	05 48 46.8
	ES	59 28.0
SLC	E(P)	05 48 51.5
	ESKS	49 05.2
HHM	E(P)	05 48 52.0
BOZ	E(P)	05 48 54.5
	ES	49 38.0
BUT	EP	05 48 55.1

Date and Station	Phase (GCT)
	h m s
SJG EP'	05 54 54.0
EPP	58 13.0
ESKP	58 31.5
JAN 3	
BMO EP	05 42 59.6
JAN 3	
H-05 52 48.4	
11.2S 165.6E	
h ABOUT 8KM	
COL IP	06 05 17.0
SLD EP D	06 05 19.7
EUR IP C	06 05 41.6
I	06 21.2
BCN EP	06 05 42.4
BMO EP	06 05 44.1
EPKKP	23 38.5
NEW EP	06 05 49.0
TUC E(P)	06 05 52.5
ES	16 32.0
SLC E(P)	06 05 56.0
HHM E(P)	06 05 58.7
BUT EP	06 06 01.1
BOZ E(P)	06 06 03.0
SJG EP'	06 11 59.6
ESKP	15 25.5
JAN 3	
BHP EP	05 55 32.0
IS	06 05 16.0
JAN 3	
COL EP	05 57 50.0
EUR I(P)	05 58 14.5
BMO EP	05 58 16.4
JAN 3	
COL IP	06 02 35.8
BMO EP	06 03 02.2
JAN 3	
COL EP	06 11 34.0
EUR EP	06 11 54.9
BMO EP	06 11 57.6
JAN 3	
COL IP	06 13 17.2
SLD EP	06 13 19.5
I	14 09.6
BCN EP	06 13 41.4
EUR IP	06 13 42.1
BMO EP	06 13 44.5

Date and Station	Phase (GCT)
	h m s
TUC E(P)	06 13 52.0
JAN 3	
COL EP	06 14 07.0
EUR IP C	06 14 31.5
I	14 46.0
EPP	18 05.5
EPKKP	32 04.0
BCN EP	06 14 32.9
BMO E(P)	06 14 33.8
NEW EP	06 14 36.0
TUC E(P)	06 14 42.5
JAN 3	
H-06 25 28.6	
8.3N 103.9W	
h ABOUT 33KM	
TUC E(P)	06 30 48.0
EUR E(P)	06 32 03.5
NEW EP	06 33 12.0
COL E(P)	06 35 48.5
JAN 3	
COL EP	06 44 59.5
JAN 3	
COL EP	06 49 25.0
JAN 3	
COL IP	06 53 39.5
BMO EP	06 54 06.0
JAN 3	
H-07 06 35.2	
37.3N 116.4W	
h ABOUT 13KM	
BCN EPN	07 07 07.4
E(S)	07 32.9
EUR IP	07 07 12.0
SLD E(P)	07 07 44.8
EL	08 38.0
JAN 3	
H-07 32 57.3	
11.6S 165.0E	
h ABOUT 30KM	
COL IP	07 45 25.9
EUR EP	07 45 50.4
JAN 3	
COL E(P)	09 49 32.0
JAN 3	
COL EP	10 05 24.0
JAN 3	
H-10 11 38.2	
11.4S 165.1E	
h ABOUT 33KM	

Date and Station	Phase (GCT)
	h m s
COL EP	10 24 05.5
EUR EP	10 24 31.0
JAN 3	
H-10 43 23.9	
10.9S 165.4E	
h ABOUT 22KM	
COL EP	10 55 49.0
EUR IP	10 56 15.2
BMO EP	10 56 17.0
TUC E(P)	10 56 25.5
JAN 3	
H-11 05 16.7	
11.2S 165.4E	
h ABOUT 40KM	
COL EP	11 17 40.0
SLD EP C	11 17 42.7
BCN E(P)	11 18 03.4
EUR IP D	11 18 06.0
I	19 11.4
EPP	21 31.7
BMO EP	11 18 07.9
TUC EP	11 18 17.0
SLC EP	11 18 21.7
HHM EP	11 18 22.0
BUT EP	11 18 24.6
E	18 40.1
BOZ EP	11 18 27.5
SJG EP'	11 24 22.0
JAN 3	
COL EP	11 24 49.0
EUR IP C	11 25 14.3
JAN 3	
H-11 28 48.8	
10.9S 165.4E	
h ABOUT 30KM	
COL EP	11 41 14.0
EUR EP	11 41 39.0
JAN 3	
COL EP	11 30 05.5
JAN 3	
H-11 31 33.2	
11.2S 165.4E	
h ABOUT 22KM	
COL IP	11 44 01.5
SLD EP	11 44 03.5
BCN EP	11 44 24.4

Date and Station	Phase (GCT)
	h m s
EUR IP	11 44 25.2
NEW EP	11 44 32.0
TUC E(P)	11 44 36.0
HHM E(P)	11 44 41.7
JAN 3	
H-12 02 56.9	
56.0N 34.5W	
h ABOUT 33KM	
BOZ EP	12 11 31.0
NEW EP	12 11 37.0
COL EP	12 11 43.0
BMO EP	12 11 54.9
EUR EP	12 12 19.8
JAN 3	
H-12 03 46.9	
11.3S 165.7E	
h ABOUT 30KM	
COL IP	12 16 13.1
EUR EP	12 16 37.0
JAN 3	
COL EP	12 24 29.0
JAN 3	
H-12 30 45.2	
51.7N 174.6E	
h ABOUT 33KM	
ADK E(P)	12 32 06.0
COL IP	12 35 52.4
EUR E(P)	12 39 26.1
JAN 3	
H-12 32 08.3	
11.0S 165.5E	
h ABOUT 26KM	
COL IP	12 44 32.6
SLD EP C	12 44 36.1
EUR IP	12 44 58.5
BCN EP	12 44 59.9
E	45 03.9
BMO EP	12 45 00.2
TUC EP	12 45 10.3
HHM EP	12 45 15.2
BOZ EP	12 45 21.0
BUT E(P)	12 45 25.6
SJG EP'	12 51 16.0
JAN 3	
COL E(P)	12 38 13.0

Date and Station	Phase (GCT)
	h m s
BMO E(P)	12 39 12.5
JAN 3	
H-13 23 51.1	
12.0S 165.3E	
h ABOUT 30KM	
COL IP	13 36 20.2
EUR IP	13 36 45.5
BMO EP	13 36 45.7
JAN 3	
BOZ EP	13 32 51.0
JAN 3	
BMO EP	14 29 07.1
JAN 3	
COL EP	16 03 31.0
BMO EP	16 06 02.4
JAN 3	
H-16 20 21.4	
11.5S 165.4E	
h ABOUT 41KM	
COL EP	16 32 45.5
JAN 3	
COL EP	17 08 55.0
JAN 3	
H-17 11 20.3	
13.5N 90.3W	
h ABOUT 51KM	
ALQ E(P)	17 16 50.0
TUC E(P)	17 16 54.0
BCN EP	17 17 39.5
EUR IP	17 18 05.1
BMO EP	17 18 41.0
EPCP	20 51.8
JAN 3	
H-17 21 42.0	
6.8N 73.0W	
h ABOUT 164KM	
BHP IP D	17 23 16.5
IS	24 33.5
SJG EP	17 24 41.0
IS	26 56.0
ALQ EP	17 29 16.4
TUC EP	17 29 30.0
EUR IP D	17 30 25.2
E	30 54.9
BOZ EP	17 30 29.5
BMO EP	17 30 49.7
COL EP	17 33 20.5
EPP	34 01.0

Date and Station	Phase (GCT)
	h m s
JAN 3	
SJG IP	17 38 27.5
I(S)	38 49.5
JAN 3	
H-17 46 45.5	
11.3S 165.8E	
h ABOUT 38KM	
COL IP	17 59 10.0
EUR EP	17 59 34.1
BMO EP	17 59 36.4
JAN 3	
COL EP	18 36 12.5
JAN 3	
BOZ EPN	18 56 31.5
ES	56 43.5
BMO EP	18 57 24.0
JAN 3	
H-20 12 48.7	
20.4S 169.3E	
h ABOUT 58KM	
COL EP	20 25 47.0
EUR EP	20 25 52.3
JAN 3	
H-20 13 36.1	
45.6N 126.0W	
h ABOUT 33KM	
BMO IP	20 15 07.8
NEW IP	20 15 12.5
HHM EP	20 15 39.7
E	15 50.5
SLD E(P)	20 15 49.5
BUT EP	20 15 57.0
EUR EP	20 15 57.7
BOZ E(P)	20 16 02.0
E	16 10.5
TUC E(P)	20 17 46.0
ALQ E(P)	20 17 50.2
COL EP	20 18 37.0
JAN 3	
H-20 30 16.3	
11.1S 165.5E	
h ABOUT 21KM	
COL IP	20 42 43.5
EUR EP	20 43 07.7
BMO EP	20 43 10.2
BOZ E(P)	20 43 29.5

Date and Station	Phase (GCT)
	h m s
JAN 3	
H-20 43 05.5	
11.8S 165.2E	
h ABOUT 51KM	
COL IP	20 55 31.3
EUR EP D	20 55 55.9
BMO EP	20 55 58.6
TUC EP	20 56 07.4
JAN 3	
H-21 23 20.9	
12.4S 166.4E	
h ABOUT 27KM	
COL EP	21 35 51.3
BCN E(P)	21 36 11.5
EUR IP	21 36 12.2
BMO EP	21 36 14.0
TUC E(P)	21 36 26.0
BOZ E(P)	21 36 32.0
JAN 3	
H-21 33 11.7	
11.6S 165.3E	
h ABOUT 33KM	
COL EP	21 45 39.0
EUR IP	21 46 04.2
BMO EP	21 46 07.5
TUC E(P)	21 46 15.1
JAN 3	
COL EP	21 45 54.0
EUR EP	21 46 15.5
BOZ E(P)	21 46 42.5
JAN 3	
BMO EP	21 53 53.1
JAN 3	
BMO E(P)	21 54 38.0
JAN 3	
GUA EP	22 21 41.0
IS	21 51.0
JAN 3	
H-22 27 04.0	
11.1S 165.5E	
h ABOUT 15KM	
COL EP	22 39 32.0
BMO EP	22 39 58.4
BOZ E(P)	22 40 18.0
JAN 3	
SJG EP	23 03 40.5
IS	04 02.1

Date and Station	Phase (GCT)
	h m s
JAN 3	
H-23 13 52.1	
11.4S 165.5E	
h ABOUT 34KM	
COL EP	23 26 18.0
EUR EP	23 26 42.5
JAN 3	
GUA EP	23 52 14.0
IS	52 26.0
JAN 4	
H-00 14 38.6	
11.2S 165.6E	
h ABOUT 35KM	
COL EP	00 27 03.0
EUR E(P)	00 27 28.0
BMO EP	00 27 29.5
JAN 4	
MID EP	00 22 22.0
JAN 4	
GUA EP	00 29 34.0
IS	29 49.0
JAN 4	
H-00 28 07.5	
13.1N 88.6W	
h ABOUT 72KM	
BMO EP	00 35 35.6
JAN 4	
BMO EP	00 42 07.3
JAN 4	
GUA IP	00 57 58.0
IS	58 11.0
BMO EP	01 10 29.7
E	10 37.9
JAN 4	
H-01 55 06.5	
11.6S 165.5E	
h ABOUT 33KM	
COL IP	02 07 34.1
EUR EP	02 07 58.0
BMO EP	02 07 59.8
JAN 4	
COL E(P)	02 13 04.5
JAN 4	
BMO EP	02 29 45.3
ES	30 04.5
JAN 4	
H-02 53 29.4	
3.6S 148.9E	
h ABOUT 15KM	
GUA EP	02 57 35.0
E	57 58.0

Date and Station	Phase (GCT)
	h m s
COL EP	03 05 50.0
NEW EP	03 06 55.0
BMO EP	03 06 55.7
FUR E(P)	03 07 03.3
JAN 4	
H-03 41 36.4	
20.4N 120.1E	
h ABOUT 31KM	
GUA E(P)	03 47 00.0
COL IP	03 53 02.0
NEW EP	03 54 56.0
E	55 09.0
HHM EP	03 55 04.6
BMO EP	03 55 05.2
E	55 11.3
SLD EP	03 55 15.5
EUR EP	03 55 24.5
E	59 29.6
JAN 4	
EUR EP	04 12 00.8
JAN 4	
COL IP	04 27 32.0
JAN 4	
COL EP	04 42 00.7
EUR EP C	04 45 28.3
JAN 4	
H-04 46 11.6	
11.8S 165.1E	
h ABOUT 33KM	
COL EP	04 58 40.0
EUR E(P)	04 59 03.4
JAN 4	
COL EP	05 41 58.0
JAN 4	
H-05 58 53.9	
38.4N 22.0E	
h ABOUT 10KM	
WSC E(P)	06 10 26.5
COL EP	06 10 46.0
SJG EP	06 10 53.0
RCD EP	06 11 27.0
NEW IP	06 11 37.8
BUT EP	06 11 38.5
BZM EP	06 11 39.0
BMO IP	06 11 51.2

Date and Station	Phase (GCT)
	h m s
ALQ EP	06 12 08.5
EUR IP	06 12 11.9
E	12 43.0
E	13 51.0
TUC EP	06 12 28.3
JAN 4	
H-07 10 15.2	
38.3N 22.1E	
h ABOUT 30KM	
NEW EP	07 22 57.0
BMO EP	07 23 10.0
JAN 4	
BMO EP	08 08 20.7
JAN 4	
TUC E(P)	08 33 48.5
EL	34 59.0
EUR E(P)	08 34 36.0
JAN 4	
BMO E(P)	08 51 50.6
JAN 4	
COL E(P)	09 53 45.5
JAN 4	
H-10 17 08.4	
50.7N 157.3E	
h ABOUT 55KM	
COL EP	10 23 24.5
NEW IP	10 26 18.1
IpP	26 33.0
BMO EP	10 26 33.9
E	26 48.6
EUR IP C	10 27 04.8
IpP	27 19.5
BCN EpP	10 27 41.1
TUC E(P)	10 27 56.8
EpP	28 12.7
ALQ EP	10 28 01.2
EpP	28 16.2
JAN 4	
H-11 26 46.0	
23.6N 94.2E	
h ABOUT 58KM	
COL EP	11 38 50.5
JAN 4	
COL EP	11 58 23.0
JAN 4	
BMO EP	12 05 16.6
JAN 4	
SJG IP D	13 05 56.1
IS	06 16.9

Date and Station	Phase (GCT)
	h m s
JAN 4	
H-13 06 59.6	
11.9S 165.2E	
h ABOUT 30KM	
COL IP	13 19 29.0
EUR IP	13 19 53.5
BCN E(P)	13 19 53.6
BMO EP	13 19 55.9
NEW EP	13 20 02.0
JAN 4	
BMO EP	13 14 22.6
JAN 4	
H-13 18 58.6	
11.0S 165.1E	
h ABOUT 25KM	
COL E(P)	13 31 24.5
EUR EP	13 31 50.5
JAN 4	
BMO EP	13 55 00.8
JAN 4	
H-14 49 19.1	
52.1N 175.0E	
h ABOUT 33KM	
COL IP	14 54 22.2
BMO E(P)	14 57 34.4
EUR EP	14 58 06.3
JAN 4	
H-16 30 30.7	
3.2S 142.3E	
h ABOUT 35KM	
COL EP	16 43 00.0
BMO EP	16 44 13.3
EUR E(P)	16 44 18.0
SJG EP'	16 50 14.5
JAN 4	
H-17 09 11.7	
11.5S 165.9E	
h ABOUT 33KM	
COL EP	17 21 38.0
JAN 4	
H-18 00 58.5	
33.6N 135.8E	
h ABOUT 417KM	
COL E(P)	18 09 46.5
BMO IP	18 12 12.1
EUR IP	18 12 33.1
JAN 4	
ALQ EP	18 36 00.2

Date and Station	Phase (GCT)
	h m s
JAN 4	
ALQ EP	19 08 50.6
EL	09 16.2
JAN 4	
ALQ EP	19 58 08.4
EL	58 44.0
JAN 4	
BMO EP	19 58 18.3
JAN 4	
H-20 15 57.2	
10.9N 62.5W	
h ABOUT 78KM	
SJG IP C	20 17 53.9
IS	18 16.5
IT	24 04.8
ISCS	31 17.0
EsSCS	32 05.0
ALQ IP C	20 24 20.2
EpP	24 40.2
EsP	24 51.0
ESCP	29 34.0
ES	31 07.5
RCD EP	20 24 31.0
EPCP	25 56.0
TUC EP	20 24 40.0
FGU IP C	20 24 51.5
SLC IP	20 25 04.5
IpP	25 28.2
BCN EP	20 25 12.1
EpP	25 35.1
BZM EP	20 25 14.5
EpP	25 37.0
BUT EP	20 25 18.4
EUR IP C	20 25 23.8
IpP	25 45.2
EPP	27 51.0
HHM EP	20 25 34.3
E	25 57.6
BMO IP	20 25 40.7
ESCP	30 22.6
NEW IP	20 25 47.6
IpP	26 10.0
SLD EP C	20 25 48.5
IpP	26 11.9
COL IP	20 27 49.0
EPP	30 48.0
JAN 4	
H-20 49 58.3	
11.8S 165.2E	
h ABOUT 33KM	
COL EP	21 02 27.1
EUR EP	21 02 52.0

Date and Station	Phase	Phase (GCT) h m s
JAN 4		
ALQ	E(P)	22 29 51.2
	EL	31 31.5
JAN 4		
H-22 48 20.3		
55.8S 27.7W		
h ABOUT 52KM		
BMO	EP'	23 07 14.3
COL	IP'	23 08 04.0
JAN 4		
SJG	EP	23 45 44.8
JAN 5		
H-00 14 41.0		
48.1N 102.9E		
h ABOUT 35KM		
GUA	E(P)	00 23 20.0
	ES	30 21.0
BRW	EP	00 23 20.4
	I	23 25.9
	I	24 52.1
	IPP	25 18.4
	I	01 33 44.1
COL	IP D	00 24 07.5
	I	24 13.3
	IPP	26 52.5
	IS	31 53.0
PMR	EP	00 24 20.2
SIT	IP	00 25 18.0
	IS	34 11.0
NEW	IP	00 26 36.6
HHM	IP	00 26 40.6
	I	26 46.6
	E	27 13.6
BMO	IP	00 26 53.0
	E	26 59.5
RUT	EP	00 26 55.6
	E	36 25.1
	ES	37 16.3
HON	E(P)	00 26 56.0
	I(PP)	30 11.8
	IS	36 56.0
BZM	EP	00 26 59.0
	E	27 05.0
	EPCP	27 11.5
RCD	EP	00 27 16.0
	E	27 23.0
	ES	38 00.0
EUR	IP C	00 27 20.6
	I	27 27.0
	IS	38 25.0
SLC	IP	00 27 22.0
	I	27 28.0
	EPP	30 58.0
	SKS	37 59.0
SLD	IP C	00 27 22.3
	I	27 28.3
	I	29 05.3
	ES	38 01.0
FGU	IP C	00 27 23.0
LVN	EP	00 27 33.0
GCA	EP	00 27 38.6
BCN	EP	00 27 39.6
	E	27 45.6
	E(SKS)	38 19.1
WSC	IP	00 27 52.7
	EPP	31 44.2
ALQ	IP C	00 27 54.2
	E	28 03.5
	EPP	31 40.0
	ES	38 36.5
TUC	E(P)	00 28 00.5
	I	28 06.8
	EPP	31 39.0
	ES	38 50.0
CSC	E(P)	00 28 23.0
	ES	39 44.0
SJG	EP	00 29 22.0
	EP'	33 05.0
	EP'	33 22.5
	EPP	34 04.0
	ESKKKS	41 16.0
	ESP	44 00.0
	ESPP	44 56.0
	ESSS	54 18.0
	EG	01 00 20.0
BHP	EP'C	00 33 56.0
JAN 5		
NEW	IP	00 39 08.2
JAN 5		
H-00 42 13.4		
48.4N 103.0E		
h ABOUT 33KM		
COL	IP	00 51 38.5
HHM	EP	00 54 12.6
BMO	EP	00 54 23.9
	E	54 28.4
BZM	EP	00 54 30.5
EUR	IP D	00 54 51.6
SLD	IP	00 54 53.7
FGU	IP	00 54 54.5
BCN	E(P)	00 55 10.1
	E	57 31.1
WSC	EP	00 55 24.7
ALQ	EP	00 55 25.5
JAN 5		
NEW	EP	01 22 47.0
JAN 5		
SJG	EP	01 56 58.5
	IS	57 53.0
	IL	58 02.5
JAN 5		
H-02 06 10.9		
11.3S 165.5E		
h ABOUT 33KM		
COL	E(P)	02 18 36.5
EUR	EP	02 19 01.0
JAN 5		
H-02 10 16.7		
11.3S 165.6E		
h ABOUT 30KM		
COL	IP	02 22 42.5
BMO	EP	02 23 09.5
NEW	EP	02 23 14.0
TUC	EP	02 23 18.0
HHM	E(P)	02 23 21.8
BZM	E(P)	02 23 30.5
JAN 5		
COL	EP	03 58 18.0
BMO	EP	04 01 00.7
JAN 5		
COL	E(P)	04 26 34.0
JAN 5		
BMO	EP	04 47 15.4
ALQ	EP	04 48 17.2
JAN 5		
BMO	EP	05 06 50.0
	E	06 54.1
COL	EP	05 07 06.0
FGU	EP	05 07 20.2
	EPP	07 24.2
JAN 5		
BMO	EP	05 09 51.5
ALQ	EP	05 10 50.6
JAN 5		
H-05 20 10.2		
11.4S 165.1E		
h ABOUT 47KM		
COL	EP	05 32 35.0
EUR	EP	05 33 02.0
JAN 5		
COL	EP	05 36 00.7
JAN 5		
H-06 13 31.1		
13.8N 120.7E		
h ABOUT 162KM		
GUA	E(P)	06 18 18.0
	ES	23 09.0
BRW	IP C	06 24 53.9
KIP	IP D	06 25 10.6
COL	IP	06 25 14.5
NEW	EP	06 26 59.0
BMO	EP	06 27 06.3
	EPP	31 16.0
HHM	E(P)	06 27 07.3
	EPP	31 14.8
EUR	E(P)	06 27 24.0
	IP'	31 44.0
	EPKKP	43 19.6
SLD	EPP	06 31 26.5
TUC	EPP	06 32 30.5
ALQ	EP'C	06 31 53.5
	EPP	32 47.4
	EPKKP	42 41.6
BCN	EP'	06 31 55.6
SJG	EP'	06 32 54.9
JAN 5		
COL	EP	07 08 10.0
JAN 5		
SJG	EP	09 40 00.5
	I(S)	40 24.0
JAN 5		
H-10 08 02.9		
39.3N 72.7E		
h ABOUT 48KM		
COL	IP	10 19 19.0
NEW	EP	10 21 10.0
HHM	E(P)	10 21 11.3
BZM	E(P)	10 21 24.5
BMO	EP	10 21 24.9
EUR	E(P)	10 21 55.0
	E	25 22.5
JAN 5		
H-10 35 50.1		
11.4S 166.2E		
h ABOUT 60KM		
COL	IP	10 48 11.4
SLD	EP	10 48 12.5
EUR	EP C	10 48 34.8
	EPP	48 48.4

Date and Station	Phase (GCT)
	h m s
BCN EP	10 48 35.1
BMO EP	10 48 37.5
NEW EP	10 48 43.0
TUC E(P)	10 48 45.1
JAN 5	
BMO EP	11 06 12.4
E	06 19.9
JAN 5	
COL EP	11 20 58.2
JAN 5	
BMO EP	11 26 28.7
JAN 5	
EUR E(P)	11 40 48.0
BMO EP	11 41 20.8
JAN 5	
COL E(P)	11 47 22.6
JAN 5	
H-12 15 21.7	
37.3N 116.5W	
h ABOUT 16KM	
LVN IP	12 15 49.0
EL	16 13.0
BCN EPN	12 15 52.6
EL	16 19.6
EUR IP	12 15 57.4
GCA EP	12 16 23.0
E	16 35.1
ILG	17 21.9
SLD E(P)	12 16 30.1
IL	17 16.5
TUC E(P)	12 17 04.0
EL	18 58.5
BMO EPN	12 17 15.6
ALQ E(P)	12 17 37.6
E	17 56.0
EL	19 42.0
JAN 5	
BZM E(P)	12 18 20.5
E	20 14.5
JAN 5	
FGU EP	13 17 00.8
E	17 19.5
ELG	18 45.5
JAN 5	
GCA E(P)	13 35 13.2
ELG	35 48.5
JAN 5	
H-14 38 12.1	
11.1S 165.4E	
h ABOUT 30KM	
COL IP	14 50 38.0

Date and Station	Phase (GCT)
	h m s
EUR IP	14 51 03.0
BMO EP	14 51 05.2
JAN 5	
COL EP	15 36 44.0
JAN 5	
BMO E(P)	16 13 49.6
JAN 5	
COL EP	17 56 14.0
JAN 5	
H-18 24 57.2	
8.2S 149.5E	
h ABOUT 51KM	
COL EP	18 37 34.6
JAN 5	
SLD EP	19 09 46.5
JAN 5	
NEW EP	20 18 29.0
JAN 5	
BMO EP	20 32 51.6
JAN 5	
ALQ E(P)	21 11 05.4
EL	11 40.5
JAN 5	
H-21 38 23.8	
21.9S 170.4E	
h ABOUT 15KM	
SJG EP'	21 57 28.0
JAN 5	
BUT EP	21 55 13.5
JAN 5	
H-22 40 27.8	
48.3N 102.9E	
h ABOUT 33KM	
COL EP	22 49 54.0
NEW IP	22 52 23.6
HHM EP	22 52 27.8
BMO EP	22 52 39.5
ALQ EP	22 53 40.6
JAN 5	
H-22 42 01.4	
41.8N 112.6W	
h ABOUT 5KM	
SLC EP	22 42 24.3
FGU IPN	22 42 45.3
I	42 47.3
IS	43 19.0
EUR EP	22 42 57.6
E(S)	43 40.0
BMO EPN	22 43 12.5

Date and Station	Phase (GCT)
	h m s
JAN 5	
ALQ E(P)	22 54 59.0
EL	55 24.2
JAN 5	
COL EP	23 12 17.0
JAN 5	
H-23 58 20.5	
48.1N 102.9E	
h ABOUT 28KM	
COL IP	24 07 48.9
NEW IP	24 10 17.6
HHM EP	24 10 22.0
BUT EP	24 10 35.0
BZM EP	24 10 40.0
EUR IP	24 11 01.5
SLD IP D	24 11 03.6
E	12 16.0
IPP	15 14.0
ALQ EP C	24 11 35.0
E	11 38.5
JAN 6	
H-00 04 03.1	
41.8N 143.4E	
h ABOUT 36KM	
COL IP C	00 12 10.9
I	12 19.9
IS	18 43.5
EL	22 06.5
NEW EP	00 14 46.0
HHM EP	00 14 56.3
EpP	15 07.8
BMO EP	00 14 58.6
EpP	15 09.9
BUT EP	00 15 09.5
BZM E(P)	00 15 22.5
EUR IP C	00 15 24.0
IpP	15 34.8
IPP	18 17.9
BCN EP	00 15 42.1
EpP	15 52.1
RCD EP	00 15 47.0
EpP	15 58.0
TUC E(P)	00 16 09.0
EPP	16 20.3
ES	26 06.0
ALQ EP	00 16 14.0
EpP	16 25.0
JAN 6	
HON EP	00 13 41.0
S	21 12.0

Date and Station	Phase (GCT)
	h m s
JAN 6	
SJG EP	00 24 04.5
JAN 6	
H-00 24 07.4	
44.9N 111.1W	
h ABOUT 21KM	
BZM EPN	00 24 22.5
ES	24 39.5
BUT EPN	00 24 36.5
NEW EP	00 25 28.0
EL	26 55.0
EUR E(P)	00 25 45.5
JAN 6	
BMO EP	00 38 35.0
JAN 6	
COL IP C	01 22 25.1
ES	23 24.3
JAN 6	
SJG EP	01 48 14.5
IS	48 34.5
JAN 6	
EUR EP	02 12 52.0
EL	13 33.0
JAN 6	
H-02 50 35.3	
45.5N 151.7E	
h ABOUT 41KM	
BMO E(P)	03 00 55.4
JAN 6	
H-04 07 24.8	
1.7S 126.3E	
h ABOUT 41KM	
BMO EP'	04 26 01.6
JAN 6	
NEW EP	04 07 25.0
JAN 6	
H-04 22 03.3	
11.2S 165.3E	
h ABOUT 13KM	
COL EP	04 34 32.0
JAN 6	
COL EP	04 22 39.0
JAN 6	
H-05 09 38.3	
48.5N 102.8E	
h ABOUT 33KM	
BMO E(P)	05 21 48.9
JAN 6	
H-05 23 13.5	
12.1S 166.1E	
h ABOUT 39KM	
COL EP	05 35 41.0

Date and Station	Phase	(GCT) h m s
JAN 6		
COL	EP	06 05 41.1
EUR	EP	06 06 33.2
JAN 6		
COL	EP	06 18 05.0
JAN 6		
COL	EP	06 34 03.0
JAN 6		
NEW	EP	07 22 31.0
JAN 6		
EUR	EP	07 25 12.8
	I	25 16.7
	E(S)	25 45.1
	IL	25 52.2
JAN 6		
BMO	EP	07 36 30.8
JAN 6		
H-08 14 27.5		
11.9S 166.1E		
h ABOUT 50KM		
COL	EP	08 26 51.0
EUR	EP	08 27 16.1
BMO	EPKKP	08 44 56.2
JAN 6		
H-08 46 54.2		
49.9N 155.6E		
h ABOUT 77KM		
COL	EP	08 53 21.0
EUR	E(P)	08 56 57.2
JAN 6		
H-10 03 06.1		
1.5S 126.5E		
h ABOUT 54KM		
BRW	EP	10 15 45.8
COL	EP	10 15 58.0
BMO	EP'	10 21 32.5
	E	21 41.2
EUR	IP'	10 21 38.2
JAN 6		
EUR	EP	11 01 05.5
BMO	E(P)	11 01 18.6
JAN 6		
MID	EP	11 38 00.7
	ES	38 18.3
COL	EP	11 38 31.5
	E(S)	39 30.0
JAN 6		
H-13 27 28.3		
27.9S 26.7E		
h ABOUT 18KM		
BMO	EP'	13 47 11.3
EUR	IP'	13 47 13.2
JAN 6		
SJG	EP	13 28 14.0
	IS	28 52.0
JAN 6		
SJG	EP	15 12 31.0
	IS	12 52.7
JAN 6		
H-15 41 15.5		
36.9N 107.0W		
h ABOUT 33KM		
ALQ	E(P)	15 41 48.5
	E	41 50.2
	E	42 03.9
	ELG	42 18.6
FGU	IP	15 42 22.5
	I	42 33.5
	ILG	43 27.0
EUR	IP	15 43 06.0
BCN	EPG	15 43 11.1
	EL	44 37.1
JAN 6		
SJG	EP	16 48 08.0
JAN 6		
BMO	EP	16 59 43.7
JAN 6		
H-17 35 17.5		
30.7N 130.7E		
h ABOUT 33KM		
EUR	EP	17 48 00.7
JAN 6		
EUR	EP	17 58 10.9
JAN 6		
COL	EP	18 32 22.0
JAN 6		
ALQ	E(P)	18 46 25.0
	E	46 52.6
JAN 6		
NEW	EP	19 53 15.0
	E	53 41.0
COL	E(P)	19 56 33.5
JAN 6		
EUR	E(P)	21 00 35.0
	EL	01 16.7
JAN 6		
SJG	EP	21 04 13.0
JAN 6		
NEW	EP	21 07 38.0
JAN 6		
ADK	IP	21 28 15.4
	ES	28 55.6
JAN 6		
EUR	E(P)	21 57 45.5
	EL	58 28.5
JAN 6		
ALQ	E(P)	22 33 10.4
	E	33 50.6
JAN 6		
SJG	EP	22 45 55.4
	ES	46 21.0
JAN 6		
ALQ	E(P)	23 01 24.4
	E	01 44.0
JAN 6		
NEW	EP	23 39 22.0
JAN 6		
H-23 57 34.9		
32.1N 116.1W		
h ABOUT 1KM		
BCN	(PN)	23 58 39.1
	EL	59 50.1
TUC	E(P)	23 58 45.5
	EL	00 00 02.1
EUR	IP C	23 59 26.5
	ILG	00 01 33.1
JAN 7		
H-00 27 21.5		
48.8S 112.6E		
h ABOUT 7KM		
COL	EP'	00 46 43.0
SLD	EP'	00 46 51.5
TUC	EP'	00 46 55.7
BCN	EP'	00 46 56.1
EUR	IP'	00 46 58.2
BMO	EP'	00 47 00.7
NEW	IP'	00 47 05.0
	I	47 31.0
ALQ	EP'	00 47 05.4
	E	47 09.0
	E	47 20.0
SLC	EP'	00 47 06.1
	E	47 10.6
	E	47 20.6
SJG	EP'	00 47 07.0
HHM	EP'	00 47 08.4
FGU	EP'	00 47 08.5
	I	47 12.0
BUT	EP'	00 47 09.0
BZM	EP'	00 47 11.0
	E	47 14.0
RCD	EP'	00 47 16.0
CSC	EP'	00 47 20.0
	EP'	48 08.0
WSC	EP'	00 47 30.0
	EP'	48 35.0
JAN 7		
NEW	IP	00 56 33.1
JAN 7		
COL	EP	01 03 03.0
JAN 7		
H-01 57 12.4		
50.1N 177.2E		
h ABOUT 34KM		
ADK	IP	01 58 15.8
	IS	59 03.1
COL	EP	02 02 21.0
NEW	EP	02 05 00.0
BMO	EP	02 05 13.2
	EPCP	07 00.9
BZM	EP	02 05 36.5
EUR	IP	02 05 43.3
ALQ	EP D	02 06 49.1
JAN 7		
H-04 46 35.8		
21.3S 68.9W		
h ABOUT 123KM		
BMO	E(P)	04 58 28.8
JAN 7		
BZM	E(P)	04 47 50.5
JAN 7		
H-04 55 29.2		
51.9N 175.1W		
h ABOUT 48KM		
ADK	IP	04 55 45.4
	ES	55 54.5
COL	EP	04 59 51.0
NEW	IP	05 02 32.8
BMO	EP	05 02 46.5
BZM	EP	05 03 11.0
EUR	IP	05 03 18.2
ALQ	E(P)	05 04 24.4
JAN 7		
SJG	EP	04 58 18.5
	ES	58 51.7
JAN 7		
SJG	EP	06 12 47.2
JAN 7		
SJG	EP	06 18 42.0

Date and Station	Phase (GCT)
	h m s
JAN 7	
COL E(P)	07 29 25.5
EUR EP	07 29 48.5
JAN 7	
GUA IP	07 56 43.0
I(S)	56 55.0
JAN 7	
BMO E(P)	08 08 54.8
JAN 7	
BMO EP	09 43 48.2
COL EP	09 43 51.0
BZM E(P)	09 44 09.5
JAN 7	
ADK IP	09 59 36.3
IS	59 45.8
JAN 7	
H-10 48 04.0	
48.2N 103.0E	
h ABOUT 33KM	
COL EP	10 57 31.0
NEW EP	11 00 00.0
BMO EP	11 00 16.3
BZM EP	11 00 21.5
EUR E(P)	11 00 43.5
ALQ E(P)	11 01 17.2
JAN 7	
H-11 10 27.8	
18.0S 178.1W	
h ABOUT 548KM	
BMO EP	11 21 58.7
COL IP	11 22 08.7
JAN 7	
NEW EP	11 25 11.0
JAN 7	
H-11 32 58.3	
12.2S 166.1E	
h ABOUT 16KM	
COL EP	11 45 31.0
EUR IP	11 45 51.8
BMO E(P)	11 46 04.2
JAN 7	
NEW EP	11 39 52.0
JAN 7	
HON IP C	11 49 08.2
JAN 7	
BMO E(P)	12 02 02.5
JAN 7	
BMO EP	12 34 44.2

Date and Station	Phase (GCT)
	h m s
JAN 7	
H-13 03 43.8	
48.2N 103.0E	
h ABOUT 25KM	
COL IP	13 13 12.3
NEW IP	13 15 41.0
BMO EP	13 15 57.1
BZM EP	13 16 03.0
EUR IP	13 16 24.7
ALQ EP	13 16 58.6
E	17 07.0
JAN 7	
H-13 34 49.3	
11.8N 142.8E	
h ABOUT 42KM	
GUA IP	13 35 32.0
I	35 47.0
COL IP	13 46 01.0
SLD EP	13 47 36.2
NEW IP	13 47 36.4
BMO EP	13 47 40.0
BUT EP	13 47 49.5
EUR EP	13 47 52.0
I	47 21.4
BZM EP	13 47 57.0
E	48 21.0
BCN EP	13 48 01.2
E	48 24.0
ALQ E(P)	13 48 32.5
E	48 55.6
JAN 7	
BMO E(P)	14 59 16.8
JAN 7	
COL IP	15 15 10.6
NEW IP	15 16 01.1
BMO EP	15 17 57.0
JAN 7	
COL E(P)	15 29 19.5
JAN 7	
H-15 53 50.0	
12.7S 167.5E	
h ABOUT 25KM	
COL EP	16 06 20.0
EUR IP	16 06 39.0
BMO EP	16 06 42.2

Date and Station	Phase (GCT)
	h m s
JAN 7	
H-16 41 01.0	
11.9S 166.1E	
h ABOUT 17KM	
GUA EP	16 47 37.0
E(S)	53 02.0
COL EP	16 53 31.0
EUR IP	16 53 55.1
BMO EP	16 53 55.7
BCN E(P)	16 53 57.2
NEW E(P)	16 54 07.0
BZM E(P)	16 54 17.5
JAN 7	
HON EP C	16 57 06.2
IS	17 01 21.4
JAN 7	
BMO EP	17 11 34.8
JAN 7	
BMO EP	17 19 43.0
JAN 7	
H-18 29 14.8	
12.0S 165.9E	
h ABOUT 27KM	
COL EP	18 41 44.0
JAN 7	
BZM EPN	18 54 27.0
E(S)	54 37.5
JAN 7	
H-19 24 15.4	
17.4N 98.8W	
h ABOUT 67KM	
TUC EP	19 28 27.0
EL	33 24.0
ALQ IP D	19 28 31.9
I	28 48.0
EL	33 32.0
CSC EP	19 29 14.5
E	29 32.0
ES	33 30.0
BCN EP	19 29 20.7
E	29 35.7
ESCP	36 23.2
FGU EP	19 29 36.5
IpP	29 48.6
IsP	29 54.9
SLC EP	19 29 43.2
E	30 01.3
EUR IP C	19 29 49.0
E	30 35.1
IL	38 20.5
RCD EP	19 29 52.0

Date and Station	Phase (GCT)
	h m s
SLD EP	19 30 00.2
EpP	30 17.5
BZM EP	19 30 22.0
E(pP)	30 37.5
E	31 11.5
BUT EP	19 30 27.5
EpP	30 44.2
BMO EP	19 30 32.0
HHM EP	19 30 45.5
E	31 04.0
NEW IP	19 30 56.8
COL EP	19 34 00.0
JAN 7	
BMO EP	19 52 00.7
JAN 7	
BMO IP	20 22 25.8
JAN 7	
NEW EP	20 36 23.0
JAN 7	
H-21 06 26.9	
51.9N 175.6W	
h ABOUT 35KM	
ADK IP	21 06 38.9
IS	06 45.9
COL EP	21 10 52.0
NEW EP	21 13 33.0
BMO EP	21 13 47.6
EpP	13 58.8
BOZ E(P)	21 14 11.5
EUR EP	21 14 21.0
JAN 7	
BOZ EPN	21 08 05.5
ES	08 28.5
JAN 7	
COL EP	23 54 47.0
JAN 8	
NEW EP	00 16 33.0
E	17 59.0
JAN 8	
H-02 28 18.9	
22.3S 69.1W	
h ABOUT 108KM	
ALQ EP	02 39 03.2
EPCP	39 30.4
EUR EP	02 39 53.5
BMO EP	02 40 18.4
JAN 8	
H-05 02 55.2	
56.1N 162.8E	
h ABOUT 59KM	

Date and Station	Phase	(GCT) h m s
BRW	EP	05 07 58.6
COL	EP	05 08 16.0
	ES	12 46.0
KIP	EP	05 11 10.0
NEW	IP	05 11 24.5
HHM	E(P)	05 11 36.0
BOZ	EP	05 11 58.5
	E	12 19.0
SLD	EP	05 12 04.5
FUR	IP	05 12 14.0
FGU	EP	05 12 31.1
	EPCP	13 29.3
RCD	EP	05 12 36.0
BCN	EP	05 12 40.2
TUC	EP	05 13 10.0
	ES	21 38.0
ALQ	EP	05 13 13.4
	EpP	13 29.2
	ES	21 38.0
WSC	E(P)	05 14 16.0
	EpP	14 33.2
CSC	EP	05 14 33.2
JAN 8		
H-05 06 49.1		
56.0N 162.9E		
h ABOUT 34KM		
COL	EP	05 12 13.0
BMO	EP	05 15 36.0
EUR	IP	05 16 11.5
ALQ	EP	05 17 09.6
JAN 8		
EUR	IP D	05 24 09.0
JAN 8		
LVN	E(P)	05 30 39.8
JAN 8		
H-06 43 32.7		
56.0N 162.8E		
h ABOUT 48KM		
COL	IP	06 48 55.0
	ES	53 34.0
NEW	IP	06 52 04.0
BMO	EP	06 52 18.5
BOZ	EP	06 52 36.5
EUR	IP	06 52 54.1
RCD	EP	06 53 15.5
TUC	E(P)	06 53 50.1
ALQ	EP	06 53 52.0
JAN 8		
H-07 37 30.4		
33.6N 118.5W		
h ABOUT 11KM		
BCN	EPN	07 38 28.2
	EPG	38 41.2
	E	38 45.2
	E(S)	39 19.7
LVN	IP	07 38 29.5
	ES	40 02.5
SLD	EP	07 38 33.0
	IPG	38 42.9
	I(S)	39 21.4
EUR	EP D	07 39 03.5
	IPG	39 27.0
	IS	40 00.2
TUC	E(P)	07 39 10.0
	EL	40 55.0
ALQ	E(P)	07 39 55.0
	E	41 10.0
	EL	43 06.0
FGU	EP	07 39 59.5
	I	40 35.0
	ELG	42 48.0
BMO	E(P)	07 40 09.1
NEW	EP	07 41 06.0
	E	41 35.0
JAN 8		
COL	EP	07 46 40.0
JAN 8		
H-08 07 57.2		
11.7S 165.1E		
h ABOUT 26KM		
COL	IP	08 20 26.4
EUR	EP	08 20 51.0
BMO	E(P)	08 20 53.4
JAN 8		
H-08 12 30.2		
33.6N 118.3W		
h ABOUT 14KM		
BCN	EPN	08 13 29.2
	E	13 41.2
	ELG	14 30.2
LVN	IP	08 13 30.5
SLD	EP	08 13 33.5
	EL	14 44.5
EUR	IP	08 14 10.4
JAN 8		
H-08 26 58.2		
33.6N 118.4W		
h ABOUT 9KM		
BCN	EPN	08 27 56.2
	E	28 09.7
	ELG	28 56.2
LVN	IP	08 27 58.5
SLD	E(P)	08 28 01.2
	I	28 11.7
	IS	28 50.7
EUR	IP	08 28 32.5
ALQ	E(P)	08 29 23.0
	ELG	32 14.0
NEW	EP	08 30 34.0
JAN 8		
H-08 32 04.4		
56.1N 162.7E		
h ABOUT 61KM		
COL	EP	08 37 24.0
	ES	42 07.0
NEW	IP	08 40 33.6
	E(pP)	40 47.0
BMO	EP	08 40 47.8
BOZ	E(P)	08 41 09.5
SLD	EP	08 41 17.2
EUR	EP	08 41 23.2
ALQ	EP	08 42 22.0
	E	42 25.0
	ES	09 03 04.0
TUC	E(P)	08 42 22.1
JAN 8		
BMO	EP	09 09 42.5
JAN 8		
LVN	EP	09 11 39.5
BCN	(PN)	09 11 49.2
	E	11 56.2
	EL	12 34.2
JAN 8		
H-09 23 24.4		
11.5S 165.9E		
h ABOUT 45KM		
COL	EP	09 35 49.0
JAN 8		
COL	EP	09 27 17.0
JAN 8		
COL	EP	09 45 41.0
JAN 8		
H-12 14 56.2		
39.6N 123.1W		
h ABOUT 33KM		
UKI	EP	12 15 06.0
	ES	15 12.0
SLD	EP	12 15 42.6
EUR	IP	12 16 19.2
JAN 8		
GUA	IP	12 25 14.0
	IS	25 27.0
JAN 8		
BOZ	EP	14 06 09.0
JAN 8		
SJG	IP D	15 12 34.5
	IS	12 49.4
JAN 8		
H-15 27 19.4		
12.3S 166.3E		
h ABOUT 48KM		
COL	EP	15 39 45.0
EUR	IP	15 40 11.1
BMO	EP	15 40 13.4
JAN 8		
COL	EP	15 47 47.0
JAN 8		
NEW	EP	16 20 11.0
JAN 8		
SJG	IP D	16 29 32.7
	IS	29 47.0
JAN 8		
EUR	E(P)	16 52 48.0
JAN 8		
COL	EP	17 25 46.0
BMO	EP	17 29 01.6
EUR	EP	17 29 38.0
JAN 8		
COL	EP	17 49 38.0
EUR	EP	17 50 23.9
JAN 8		
BOZ	(PN)	18 10 15.5
	ES	10 33.0
JAN 8		
H-18 46 11.8		
12.1S 165.8E		
h ABOUT 28KM		
COL	EP	18 58 41.0
BMO	E(P)	18 59 08.1
JAN 8		
COL	EP	19 27 13.0
JAN 8		
COL	EP	19 40 58.0

Date and Station	Phase (GCT)
	h m s
JAN 8	
H-20 47 44.4	
33.6N 118.4W	
h ABOUT 9KM	
BCN EPN	20 48 42.8
E	48 54.8
ELG	49 44.3
LVN IP	20 48 44.5
SLD EP	20 48 48.6
I	49 00.0
EL	49 52.0
TUC E(PG)	20 49 46.0
ELG	51 11.0
ALQ E(P)	20 50 08.5
E	50 53.5
BMO EP	20 50 35.9
JAN 8	
H-21 56 23.5	
11.4S 165.6E	
h ABOUT 25KM	
COL EP	22 08 50.0
JAN 8	
COL EP	22 02 57.0
JAN 8	
BCN (PN)	22 54 59.3
E(L)	55 36.3
JAN 8	
SLD EP	23 04 16.8
IS	04 33.5
JAN 8	
COL EP	23 32 25.0
JAN 9	
BOZ EP	00 07 29.0
JAN 9	
COL EP	00 31 38.0
JAN 9	
H-01 52 12.2	
51.2N 171.6W	
h ABOUT 33KM	
ADK EP	01 53 00.5
ES	53 37.0
COL EP	01 56 26.0
EUR EP	01 59 44.5
JAN 9	
H-01 55 15.0	
27.6N 54.5E	
h ABOUT 30KM	
COL EP	02 07 55.0
NEW EP	02 09 17.0
EPP	13 37.0
EUR IP'	02 13 36.5

Date and Station	Phase (GCT)
	h m s
JAN 9	
BMO EP	02 20 11.3
JAN 9	
EUR EP	02 24 40.0
JAN 9	
BMO EP	02 57 40.7
JAN 9	
H-03 22 14.7	
48.0N 154.5E	
h ABOUT 45KM	
COL IP	03 29 01.1
BMO EP	03 32 02.4
EPP	32 15.3
EUR EP	03 32 30.6
JAN 9	
COL EP	04 18 16.0
JAN 9	
H-04 47 04.5	
24.8S 70.9W	
h ABOUT 33KM	
ALQ E(P)	04 58 05.8
JAN 9	
H-06 46 31.7	
11.7S 165.2E	
h ABOUT 33KM	
COL EP	06 58 59.0
EUR IP	06 59 24.8
BMO EP	06 59 27.1
JAN 9	
SJG IP	07 16 55.2
IS	17 14.0
JAN 9	
COL EP	07 25 55.0
EUR E(P)	07 26 20.0
JAN 9	
COL EP	07 42 47.0
EUR E(P)	07 43 11.0
JAN 9	
COL EP	08 02 19.0
EUR EP	08 02 44.3
JAN 9	
COL EP	09 17 13.0
JAN 9	
H-09 31 57.3	
44.9N 112.1W	
h ABOUT 33KM	
BOZ IPNC	09 32 11.5
IS	32 23.5
BZM E(P)	09 32 16.4
E(S)	32 32.0

Date and Station	Phase (GCT)
	h m s
BUT EPN	09 32 19.6
ES	32 38.4
BMO EPN	09 32 52.6
EUR E(P)	09 33 32.5
JAN 9	
H-09 39 40.0	
24.2N 122.6E	
h ABOUT 60KM	
COL EP	09 50 36.0
EUR EP	09 53 05.0
NEW IP	09 52 36.6
HHM EP	09 52 44.4
BMO EP	09 52 45.9
JAN 9	
BMO EP	10 33 23.7
JAN 9	
H-11 39 40.5	
44.0N 128.3W	
h ABOUT 33KM	
BMO EP	11 41 34.2
E	41 51.7
NEW EP	11 41 51.0
EUR EP	11 42 10.4
ALQ EP	11 44 04.5
E	44 16.0
COL EP	11 44 49.5
JAN 9	
EUR E(P)	11 51 18.5
JAN 9	
COL EP	11 58 38.0
JAN 9	
BMO EP	12 46 04.0
JAN 9	
BMO EP	13 23 43.0
JAN 9	
H-13 24 39.4	
28.0S 67.2W	
h ABOUT 119KM	
ALQ IP	13 35 56.4
E	36 33.5
EUR IP	13 36 43.0
BOZ E(P)	13 36 55.0
BMO EP	13 37 06.1
E	37 42.7
JAN 9	
COL EP	14 02 18.0
JAN 9	
BMO EP	14 13 55.9

Date and Station	Phase (GCT)
	h m s
JAN 9	
GUA EP	14 36 51.0
ES	37 16.0
JAN 9	
BMO EP	14 48 42.7
JAN 9	
H-15 10 57.6	
4.6S 151.7E	
h ABOUT 142KM	
COL EP	15 23 03.6
E	23 35.0
EUR E(P)	15 24 05.3
JAN 9	
COL EP	15 33 54.0
EUR IP	15 34 18.7
BMO EP	15 34 21.4
JAN 9	
EUR EP	15 58 05.0
JAN 9	
EUR E(P)	16 43 28.8
EL	44 03.5
JAN 9	
COL IP	16 46 35.9
JAN 9	
COL IP	16 48 00.0
JAN 9	
BMO EP	16 50 20.6
JAN 9	
MID EP	17 25 13.7
IS	25 49.6
JAN 9	
COL EP	17 28 57.0
E	29 44.0
JAN 9	
H-17 47 44.1	
12.2S 166.4E	
h ABOUT 57KM	
COL EP	18 00 09.8
EUR E(P)	18 00 33.0
JAN 9	
H-18 08 24.1	
5.1N 77.6W	
h ABOUT 47KM	
BHP I(P)	18 09 22.4
ES	10 12.2
SJG EP	18 12 20.5
ES	15 46.0
ALQ IP C	18 15 56.0
E	16 07.0
ES	22 07.6

Date and Station	Phase	(GCT)
		h m s
TUC	IP	18 16 07.0
	E	16 17.0
	ES	22 23.0
RCD	EP	18 16 35.3
	E	17 06.0
FGU	IP	18 16 42.3
BCN	EP	18 16 46.3
EUR	IP	18 17 06.3
BOZ	EP	18 17 16.5
	E	17 30.5
	E	17 46.0
BUT	EP	18 17 21.9
	EPCP	18 38.4
SLD	EP	18 17 24.4
BMO	EP	18 17 34.3
HHM	EP	18 17 38.9
NEW	IP	18 17 48.5
COL	IP	18 20 13.7
JAN 9		
H-18 31 34.1		
11.9S 165.9E		
h ABOUT 34KM		
COL	EP	18 44 01.4
EUR	E(P)	18 44 26.5
JAN 9		
H-19 03 45.3		
15.6S 176.1W		
h ABOUT 350KM		
SLD	IP C	19 14 43.1
BCN	EP	19 15 03.8
EUR	IP	19 15 09.0
TUC	EP	19 15 11.0
BMO	EP	19 15 19.7
	EpP	16 40.8
NEW	EP	19 15 29.0
COL	IP	19 15 32.6
ALQ	EP C	19 15 33.4
FGU	IP C	19 15 35.7
BUT	EP	19 15 37.1
BOZ	EP	19 15 40.5
JAN 9		
BOZ	(PN)	19 19 43.5
	ES	19 54.0

Date and Station	Phase	(GCT)
		h m s
JAN 9		
H-19 47 01.8		
11.6S 165.6E		
h ABOUT 40KM		
COL	IP	19 59 27.2
SLD	EP	19 59 29.5
	E	59 48.5
EUR	IP C	19 59 51.2
	I	20 00 11.0
	EPP	03 31.4
BCN	EP	19 59 51.8
BMO	EP	19 59 54.2
NEW	IP	19 59 59.3
TUC	EP	20 00 03.0
HHM	E(P)	20 00 09.3
BOZ	EP	20 00 14.5
	EpP	00 37.5
ALQ	E(P)	20 00 18.0
JAN 9		
GUA	E(P)	20 00 29.0
	E(S)	01 37.0
JAN 9		
EUR	EP	20 23 28.2
JAN 9		
ALQ	E(P)	20 44 28.0
BMO	EP	20 45 49.5
JAN 9		
EUR	EP	21 03 35.5
JAN 9		
H-21 17 24.8		
19.6S 169.4E		
h ABOUT 215KM		
COL	EP	21 30 00.0
EUR	IP D	21 30 05.8
BMO	E(P)	21 30 08.1
JAN 9		
H-21 58 26.6		
36.9N 141.1E		
h ABOUT 55KM		
COL	EP	22 07 11.8
BMO	EP	22 09 47.3
	EpP	10 02.4
EUR	EP	22 10 11.0
JAN 9		
ALQ	E(P)	22 31 26.0
	E	31 36.0
	EL	32 16.0

Date and Station	Phase	(GCT)
		h m s
JAN 9		
BOZ	EPN	22 50 10.0
	ES	50 19.0
JAN 9		
BCN	E(P)	22 54 58.9
	ES	55 15.9
EUR	EP	22 55 24.8
	I	55 35.5
	EL	56 13.0
JAN 9		
COL	EP	23 03 01.0
BMO	EP	23 06 02.0
JAN 9		
H-23 03 54.4		
18.0S 178.6W		
h ABOUT 640KM		
EUR	IP	23 15 09.2
BMO	EP	23 15 18.7
COL	EP	23 15 28.0
ALQ	EP	23 15 32.1
BOZ	EP	23 15 38.0
JAN 9		
SLD	EP D	23 19 24.5
	IL	19 52.5
JAN 9		
BCN	E(P)	23 20 20.4
	EL	21 08.4
EUR	E(P)	23 20 21.5
	E	20 27.5
	IL	21 27.5
BMO	EP	23 21 21.3
JAN 10		
COL	EP	00 19 57.0
EUR	EP	00 20 21.3
BMO	EP	00 20 24.1
JAN 10		
EUR	E(P)	00 30 01.5
BMO	EP	00 30 05.0
JAN 10		
COL	EP	03 17 06.0
	E	17 14.0
JAN 10		
BOZ	EPN	03 29 45.0
	ES	29 55.0
JAN 10		
EUR	E(P)	04 19 58.7
JAN 10		
BOZ	E(P)	04 40 17.5
	ES	40 35.5

Date and Station	Phase	(GCT)
		h m s
JAN 10		
H-04 58 04.7		
25.2S 70.9W		
h ABOUT 38KM		
ALQ	EP	05 09 07.0
EUR	IP	05 09 55.5
JAN 10		
SJG	IP C	07 45 39.2
	IS	45 43.2
JAN 10		
H-08 30 21.8		
36.5N 138.1E		
h ABOUT 7KM		
COL	EP	08 39 26.0
HHM	E(P)	08 42 00.0
BMO	EP	08 42 01.0
EUR	IP	08 42 24.5
JAN 10		
H-10 28 22.6		
39.4N 120.2W		
h ABOUT 5KM		
UKI	E(P)	10 29 04.5
SLD	IP C	10 29 05.0
	IL	29 37.4
EUR	IP	10 29 13.9
BMO	EPN	10 29 53.6
BCN	E	10 30 09.9
	EL	31 14.9
JAN 10		
NEW	EP	11 11 25.0
JAN 10		
COL	EP	11 13 13.0
JAN 10		
H-11 52 52.1		
44.9N 111.5W		
h ABOUT 25KM		
BOZ	IPNC	11 53 05.5
	IS	53 15.0
BZM	EP	11 53 08.0
	ES	53 19.0
BUT	EP	11 53 15.9
HHM	EPN	11 53 52.6
	EL	54 53.6
BMO	IPN	11 53 54.8
	EL	54 08.6
FGU	E(P)	11 53 55.4
	ELG	55 00.8
NEW	IP	11 54 09.3
	ELG	55 32.0

Date and Station	Phase (GCT)
	h m s
RCD E(P)	11 54 21.0
EUR E(P)	11 54 31.6
JAN 10	
H-12 10 37.1	
37.4N 114.2W	
h ABOUT 33KM	
BCN EPN	12 11 02.9
ES	11 23.9
GCA IP	12 11 12.7
IS	11 39.0
EUR IP D	12 11 16.8
ES	12 45.0
JAN 10	
H-13 24 05.5	
19.6S 175.9W	
h ABOUT 33KM	
BCN E(P)	13 46 13.9
EUR IP	13 46 17.8
TUC EP	13 46 18.4
BMO EP	13 46 30.9
ALQ EP	13 46 42.1
E	47 05.5
FGU EP	13 46 43.7
COL EP	13 46 47.0
BOZ EP	13 46 50.5
JAN 10	
BOZ (PN)	14 02 52.5
ES	02 58.0
JAN 10	
BMO EP	14 22 02.4
EUR EP	14 22 36.7
JAN 10	
H-15 38 57.6	
51.9N 176.0E	
h ABOUT 117KM	
ADK EP	15 40 05.8
ES	40 59.0
COL EP	15 43 49.0
BMO E(P)	15 46 52.9
EPCP	48 49.4
EUR EP	15 47 21.6
JAN 10	
H-17 02 12.7	
7.8S 107.0E	
h ABOUT 46KM	
BMO EP'	17 21 13.0

Date and Station	Phase (GCT)
	h m s
JAN 10	
H-17 18 39.7	
17.0N 91.1W	
h ABOUT 33KM	
ALQ E(P)	17 23 38.0
TUC EP	17 23 49.5
JAN 10	
H-17 42 41.4	
56.0N 162.6E	
h ABOUT 61KM	
COL EP	17 48 03.0
E	48 07.0
BMO EP	17 51 27.0
EUR EP	17 52 00.5
E	52 07.0
ALQ E(P)	17 52 58.0
JAN 10	
H-18 03 45.4	
11.5S 165.8E	
h ABOUT 23KM	
COL EP	18 16 13.0
EUR EP	18 16 37.0
BMO E(P)	18 16 39.3
JAN 10	
H-18 07 01.1	
11.6S 165.8E	
h ABOUT 60KM	
COL EP	18 19 24.0
BMO E(P)	18 19 56.5
EUR I(P)	18 19 57.0
JAN 10	
H-18 55 48.7	
11.6S 166.1E	
h ABOUT 61KM	
COL EP	19 08 09.0
EUR EP	19 08 36.0
JAN 10	
BOZ E(P)	19 01 10.5
ES	01 21.5
JAN 10	
BOZ E(P)	19 05 56.5
ES	06 06.0
JAN 10	
BMO E(P)	19 26 17.0
JAN 10	
BMO E(P)	19 53 44.2
JAN 10	
ALQ E(P)	21 10 38.2
EL	11 16.5

Date and Station	Phase (GCT)
	h m s
JAN 10	
COL EP	21 32 16.0
BMO E(P)	21 33 48.4
JAN 10	
H-22 07 51.0	
8.1N 39.8W	
h ABOUT 33KM	
BMO EP	22 19 33.8
E	19 54.8
JAN 10	
BOZ EPN	22 09 05.5
ES	09 16.5
ALQ E(P)	22 09 17.0
EL	09 49.0
BUT EP	22 09 53.0
JAN 10	
H-22 24 26.1	
25.4S 70.8W	
h ABOUT 33KM	
SJG EP	22 32 25.8
ALQ EP	22 35 30.3
FGU EP	22 36 07.7
EUR IP	22 36 19.2
HHM E(P)	22 36 39.6
BMO EP	22 36 43.6
JAN 10	
ALQ E(P)	22 45 19.0
EL	45 43.5
JAN 10	
BMO EP	23 25 48.7
JAN 11	
BMO EP	00 49 04.7
JAN 11	
BMO E(P)	00 55 46.1
JAN 11	
H-01 20 42.9	
11.4S 165.6E	
h ABOUT 25KM	
COL EP	01 33 10.0
JAN 11	
BMO EP	01 44 28.5
E	44 54.4
JAN 11	
COL EP	02 48 55.0
JAN 11	
H-02 58 00.6	
11.5S 165.7E	
h ABOUT 31KM	
COL IP	03 10 26.8
EUR IP	03 10 51.2

Date and Station	Phase (GCT)
	h m s
BMO EP	03 10 53.9
JAN 11	
GUA EP	03 02 32.0
JAN 11	
COL EP	03 17 42.0
JAN 11	
TUC E(P)	03 40 32.1
JAN 11	
EUR EP	04 59 53.1
I	59 55.6
E(S)	05 00 19.5
IL	00 23.4
JAN 11	
ALQ E(P)	05 28 03.0
EL	28 39.0
JAN 11	
H-05 54 03.1	
.1S 120.0E	
h ABOUT 47KM	
COL EP	06 07 05.0
BMO EP'	06 12 32.2
EPP	13 20.9
EUR IP'	06 12 42.8
ALQ EP'	06 13 02.0
JAN 11	
BMO EP	06 08 34.3
JAN 11	
FGU EP	07 05 26.0
JAN 11	
ADK EP	07 16 22.9
E	17 02.0
JAN 11	
H-07 26 40.9	
11.5S 165.7E	
h ABOUT 29KM	
COL EP	07 39 08.0
JAN 11	
COL EP	07 44 16.0
EUR EP	07 47 06.5
JAN 11	
BMO EP	09 04 18.0
JAN 11	
COL EP	09 53 29.0
BMO EP	09 56 39.5
EUR IP	09 57 12.2
JAN 11	
COL EP	09 56 19.0
BMO E(P)	09 59 30.4
JAN 11	
COL EP	10 12 48.0

Date and Station	Phase (GCT)
	h m s
JAN 11	
H-10 43 36.4	
11.6S 165.5E	
h ABOUT 18KM	
COL EP	10 56 05.0
EUR IP	10 56 30.9
BMO EP	10 56 33.0
JAN 11	
H-11 03 38.9	
11.4S 165.7E	
h ABOUT 19KM	
COL EP	11 16 06.0
EUR EP	11 16 31.1
BMO E(P)	11 16 33.3
JAN 11	
H-11 20 46.4	
34.1N 45.7E	
h ABOUT 41KM	
BRW I(P)	11 32 10.7
COL EP	11 32 56.0
WSC EP	11 33 43.1
HHM EP	11 34 11.2
NEW IP	11 34 14.1
BMO EP	11 34 28.0
EUR IP	11 34 52.5
SLD EP'	11 39 14.5
ALQ EP'	11 39 20.0
BCN EP'	11 39 32.5
JAN 11	
BHP IP D	11 27 27.4
IS	27 38.6
JAN 11	
H-11 31 00.5	
3.7S 100.9E	
h ABOUT 33KM	
COL EP	11 44 50.0
BMO EP'	11 50 01.7
EUR IP'	11 50 13.8
ALQ EP'	11 50 23.0
JAN 11	
H-11 32 25.2	
11.4S 165.7E	
h ABOUT 27KM	
COL EP	11 44 50.0
EUR IP	11 45 15.5
BCN E(P)	11 45 17.5
BMO EP	11 45 19.7
JAN 11	
BMO E(P)	11 37 19.7
EUR IP	11 37 46.6
JAN 11	
H-11 41 01.1	
11.4S 165.7E	
h ABOUT 33KM	
COL EP	11 53 26.8
E	53 32.0
JAN 11	
H-11 50 14.3	
6.8S 146.3E	
h ABOUT 47KM	
COL IP	12 02 51.2
BMO E(P)	12 03 01.4
JAN 11	
GUA EP	12 12 12.0
JAN 11	
SJG EP	13 45 05.0
JAN 11	
H-13 56 33.5	
3.5S 101.0E	
h ABOUT 33KM	
BMO EP'	14 15 37.4
JAN 11	
BMO EP	14 31 45.2
COL EP	14 32 35.0
JAN 11	
H-16 08 08.0	
5.4N 82.5W	
h ABOUT 33KM	
BHP IP	16 09 15.5
IS	10 11.4
SJG IP C	16 12 45.5
IS	16 42.0
CSC E(P)	16 14 03.0
ALQ IP C	16 15 16.0
E	15 26.0
ES	21 07.0
TUC EP	16 15 22.0
ES	21 12.0
RCD EP	16 16 03.5
E	17 44.0
ES	22 30.0
BCN EP	16 16 04.0
E	16 14.5
E	16 30.0
FGU IP C	16 16 05.0
E	17 46.3
SLC E(P)	16 16 13.1
E	16 23.2
EUR IP	16 16 26.0
SLD EP C	16 16 40.8
BOZ EP	16 16 41.5
E	17 01.5
E	17 23.5
EPP	18 39.0
ES	23 21.5
EL	27 18.0
BUT EP	16 16 48.1
BMO EP	16 16 57.5
NEW IP	16 17 05.0
HHM EP	16 17 05.7
COL EP	16 19 46.0
JAN 11	
BMO EP	17 31 50.8
JAN 11	
BOZ EP	17 56 41.0
ES	56 54.5
JAN 11	
BMO EP	18 35 20.4
JAN 11	
BUT EP	19 19 52.3
JAN 11	
BOZ EPN	19 20 16.0
ES	20 17.5
JAN 11	
BOZ EPN	20 01 18.0
ES	01 40.5
BUT E(P)	20 01 32.6
NEW EP	20 02 46.0
BMO EP	20 02 54.0
JAN 11	
ALQ E(P)	20 08 35.0
EL	09 18.4
JAN 11	
H-21 49 13.7	
39.2N 21.6E	
h ABOUT 33KM	
BMO EP	22 02 04.6
JAN 11	
BMO EP	21 53 09.2
COL IP	21 53 20.2
JAN 11	
ALQ E(P)	22 28 59.0
EL	29 41.6
JAN 11	
COL EP	22 42 24.0
BMO EP	22 45 43.3
JAN 12	
EUR E(P)	00 12 38.5
JAN 12	
COL EP D	01 23 55.2
IS	24 29.3
NEW EP	01 27 55.0
BMO EP	01 28 14.7
E	28 39.0
EUR IP	01 28 55.1
JAN 12	
NEW EP	01 39 57.0
BMO EP	01 40 06.8
JAN 12	
BMO EP	02 24 17.2
JAN 12	
BMO EP	03 15 52.2
JAN 12	
NEW EP	03 40 38.0
JAN 12	
H-03 44 34.5	
5.1S 152.8E	
h ABOUT 55KM	
COL EP	03 56 49.0
BMO E(P)	03 57 45.7
EUR E(P)	03 57 49.5
JAN 12	
H-03 52 06.2	
39.0N 107.5W	
h ABOUT 33KM	
FGU EP D	03 52 45.4
I	52 46.2
ILG	53 21.9
GCA E(P)	03 52 59.3
ILG	54 02.5
ALQ E(P)	03 53 15.4
EL	54 40.5
EUR IP	03 53 44.2
BMO EP	03 54 21.8
TUC E(P)	03 54 12.8
EL	55 46.0
JAN 12	
H-05 17 28.1	
56.2S 27.0W	
h ABOUT 80KM	
EUR EP'	05 36 12.8
BMO EP'	05 36 20.7
E	36 45.5
ESKP	39 46.6

Date and Station	Phase (GCT)
	h m s
COL IP'	05 37 09.7
I	37 18.1
JAN 12	
H-05 44 00.3	
18.4S 70.4W	
h ABOUT 99KM	
SJG EP	05 50 53.0
ALQ EP D	05 54 19.0
FGU IP	05 54 58.4
EUR IP	05 55 13.3
HHM E(P)	05 55 44.0
NEW EP	05 55 51.0
JAN 12	
COL IP	05 47 28.2
JAN 12	
SLD E(P)	06 11 17.3
EL	11 49.1
JAN 12	
BMO EP	06 22 52.5
JAN 12	
SLD IP D	06 40 38.2
EL	40 57.6
EUR E(P)	06 41 46.8
EL	42 55.1
JAN 12	
BCN E(P)	06 54 03.6
EL	55 39.6
NEW EP	06 56 16.0
JAN 12	
BMO EP	07 14 24.0
JAN 12	
NEW EP	07 27 45.0
JAN 12	
SLD E(P)	08 08 42.8
EL	09 04.5
EUR EP	08 09 46.1
JAN 12	
COL EP	08 54 08.0
JAN 12	
PMR IP	09 38 26.8
IS	38 50.7
JAN 12	
NEW EP	09 42 14.0
JAN 12	
NEW EP	09 44 15.1
JAN 12	
NEW EP	09 44 51.0

Date and Station	Phase (GCT)
	h m s
JAN 12	
H-10 14 29.6	
26.3S 179.2E	
h ABOUT 536KM	
TUC EP	10 26 27.1
EUR IP	10 26 28.4
BMO EP	10 26 38.3
ALQ EP	10 26 47.1
COL EP	10 26 51.0
JAN 12	
SLD EP	10 35 50.8
IS	36 03.2
JAN 12	
EUR EP	10 38 14.0
JAN 12	
H-12 24 46.8	
36.5N 138.1E	
h ABOUT 10KM	
COL EP	12 33 52.0
BMO IP	12 36 25.9
EUR IP	12 36 48.6
JAN 12	
NEW EP	13 22 59.0
JAN 12	
BCN EP	13 26 23.1
JAN 12	
SLD IP C	13 40 10.0
IS	40 16.4
JAN 12	
EUR E(P)	13 41 27.4
EL	42 30.5
JAN 12	
COL EP	13 58 55.0
JAN 12	
PMR IP	14 00 28.1
JAN 12	
BMO EP	14 52 32.4
JAN 12	
NEW EP	17 04 04.0
JAN 12	
H-17 04 07.7	
25.5S 70.8W	
h ABOUT 7KM	
ALQ EP	17 15 16.2
EUR IP	17 16 04.6
BMO EP	17 16 29.5
JAN 12	
BOZ E(P)	17 10 09.5

Date and Station	Phase (GCT)
	h m s
JAN 12	
BMO EP	18 05 02.3
JAN 12	
H-18 14 22.0	
28.0N 54.4E	
h ABOUT 49KM	
COL EP	18 27 03.0
JAN 12	
BMO EP	18 15 38.3
JAN 12	
BUT EP	19 27 30.0
BOZ EPN	19 27 43.5
E	27 47.0
ES	27 54.5
JAN 12	
BMO E(P)	20 40 30.8
JAN 12	
BOZ IPND	20 52 23.0
IS	52 24.5
JAN 12	
BOZ EPN	21 32 03.5
ES	32 09.5
JAN 12	
H-21 40 00.0	
19.8S 178.2W	
h ABOUT 600KM	
COL EP	21 51 45.0
JAN 12	
EUR E(P)	21 52 52.0
JAN 12	
FGU IP	21 55 32.9
IS	55 52.3
JAN 12	
ALQ EP D	22 30 02.8
E	30 05.5
EL	30 36.4
JAN 12	
BCN E(P)	22 47 14.6
ES	47 30.6
ALQ E(P)	22 48 47.5
EL	49 12.5
JAN 12	
BOZ EPN	22 49 52.5
ES	50 03.5
JAN 12	
COL EP	23 41 44.0
JAN 12	
BMO EP	23 55 15.8
JAN 13	
GUA IP	00 18 40.7
ES	18 48.0
JAN 13	
BMO EP	00 24 23.8

Date and Station	Phase (GCT)
	h m s
EUR EP	00 28 35.6
JAN 13	
SJG EP	00 31 27.0
JAN 13	
H-01 22 59.3	
44.2N 149.4E	
h ABOUT 33KM	
COL E(P)	01 30 32.0
JAN 13	
COL EP	01 57 43.0
JAN 13	
ALQ E(P)	03 07 08.5
EL	07 46.4
JAN 13	
BCN E(P)	04 11 04.6
ES	11 30.1
JAN 13	
H-04 26 16.0	
32.2N 137.6E	
h ABOUT 401KM	
COL EP	04 35 07.5
BMO EP	04 37 30.9
JAN 13	
COL EP	05 44 08.0
EUR E(P)	05 45 49.5
JAN 13	
COL EP	05 45 14.0
JAN 13	
H-06 47 30.7	
5.2N 78.0W	
h ABOUT 33KM	
EUR EP	06 56 12.2
BMO EP	06 56 40.1
JAN 13	
H-09 37 55.9	
63.2N 150.9W	
h ABOUT 120KM	
COL IP	09 38 32.8
IS	38 58.0
BMO EP	09 43 23.1
EUR IP	09 44 09.2
JAN 13	
BMO EP	09 43 43.7
JAN 13	
H-09 49 53.8	
27.1S 177.2W	
h ABOUT 120KM	
TUC EP	10 02 25.5
EUR EP	10 02 28.4
BMO EP	10 02 40.8

Date and Station	Phase	Phase (GCT) h m s
ALQ	E(P)	10 02 46.1
	EPP	03 16.0
JAN 13		
TUC	(PN)	10 20 54.5
BCN	(PN)	10 21 12.1
	EL	22 09.6
EUR	EP	10 21 43.6
JAN 13		
BMO	EP	11 37 33.3
JAN 13		
BOZ	E(P)	11 44 45.5
	ES	45 04.5
JAN 13		
COL	IP	11 49 54.2
JAN 13		
BMO	EP	11 53 01.1
EUR	IP	11 53 34.2
JAN 13		
BOZ	EP	12 12 13.0
JAN 13		
H-13 21 30.7		
11.8S 165.0E		
h ABOUT 33KM		
COL	EP	13 33 59.4
EUR	EP	13 34 25.5
JAN 13		
COL	EP	13 44 34.4
JAN 13		
H-13 48 09.7		
10.7S 161.4E		
h ABOUT 21KM		
GUA	EP	13 54 15.0
	E	58 30.0
KIP	IP C	13 57 13.3
HON	IP D	13 57 17.0
	IS	14 04 32.0
COL	EP C	14 00 39.1
	ES	11 03.0
	ESS	16 29.0
	EL	23 28.0
SLD	IP D	14 00 54.3
EUR	EP C	14 01 14.5
	I	01 32.6
	EPP	04 49.0
	EPKKP	19 18.9
BMO	IP	14 01 16.2
BCN	EP	14 01 16.6
	E	01 27.1
	EPP	04 52.1
NEW	IP	14 01 20.2
TUC	EP	14 01 28.0
	ES	12 22.0
HHM	EP	14 01 28.7
SLC	EP	14 01 31.7
BUT	EP	14 01 31.8
BOZ	EP	14 01 34.0
	EPP	05 12.5
ALQ	EP D	14 01 45.5
	EPP	05 34.0
	ES	13 20.0
SJG	EP'	14 07 26.0
	ISKP	10 56.0
JAN 13		
H-14 04 32.5		
23.9N 94.6E		
h ABOUT 106KM		
COL	EP	14 16 30.0
JAN 13		
BMO	E(P)	14 11 02.8
JAN 13		
COL	E(P)	14 16 55.0
JAN 13		
SLD	E(P)	14 31 38.0
JAN 13		
BMO	EP	16 26 28.3
JAN 13		
BOZ	E(P)	16 48 24.5
	ES	48 26.5
JAN 13		
COL	EP	17 25 22.0
JAN 13		
BMO	EP	18 00 03.2
JAN 13		
COL	EP	18 11 10.0
JAN 13		
EUR	P	18 50 39.8
COL	EP	18 51 45.0
JAN 13		
BOZ	EPN	19 26 36.5
	ES	26 47.5
JAN 13		
COL	EP	20 01 30.0
JAN 13		
COL	IP	22 01 09.0
JAN 13		
ALQ	E(P)	22 03 58.6
	EL	04 32.2
JAN 13		
ALQ	E(P)	22 28 04.0
	E	28 12.0
	EL	28 53.0
GCA	E(P)	22 28 36.5
	ELG	29 36.0
JAN 14		
COL	IP	00 05 29.1
JAN 14		
BMO	EP	00 30 38.1
JAN 14		
BMO	EPN	00 38 06.1
JAN 14		
H-01 18 14.7		
44.0N 148.7E		
h ABOUT 50KM		
COL	EP	01 25 50.0
BMO	EP	01 28 38.2
EUR	EP	01 29 07.1
JAN 14		
GCA	E(P)	01 32 49.5
	IS	33 16.1
EUR	EP	01 32 54.0
	EL	33 37.0
JAN 14		
BMO	E(P)	01 58 22.2
JAN 14		
H-02 10 36.6		
41.5N 141.9E		
h ABOUT 76KM		
COL	IP	02 18 47.2
BMO	EP	02 21 33.1
BMO	EP	02 21 33.9
HHM	E(P)	02 21 34.7
BOZ	EP	02 21 49.5
	EPP	22 08.0
EUR	EP	02 21 58.8
JAN 14		
H-02 45 17.7		
33.7N 118.4W		
h ABOUT 7KM		
BCN	EPN	02 46 15.6
	EL	47 16.1
SLD	EP	02 46 24.7
	E(S)	47 09.4
EUR	IP D	02 46 50.3
	I	47 13.7
	E(S)	48 21.0
	IL	48 34.4
BMO	E(P)	02 48 00.7
NEW	EP	02 48 51.0
JAN 14		
COL	IP	03 23 43.2
EUR	IP	03 24 18.8
JAN 14		
ADK	EP	03 42 20.1
	ES	43 13.3
COL	EP	03 46 15.0
BMO	EP	03 49 22.6
JAN 14		
COL	IP	03 58 51.2
JAN 14		
COL	EP	04 04 56.5
JAN 14		
BCN	EPN	04 28 18.6
	ES	29 06.3
EUR	E(P)	04 29 10.4
JAN 14		
COL	IP	04 40 00.0
JAN 14		
TUC	E(P)	04 56 34.0
EUR	E(P)	04 57 07.5
	EL	58 54.3
JAN 14		
H-06 50 18.1		
45.1N 110.8W		
h ABOUT 33KM		
BZM	E(P)	06 50 31.0
BOZ	EPN	06 50 33.5
	ES	50 53.0
BUT	EPN	06 50 47.7
	EL	51 15.2
BMO	EPN	06 51 26.3
HHM	E(P)	06 51 32.4
JAN 14		
COL	EP	08 42 10.0
BMO	EP	08 44 07.5
	E	44 27.0
EUR	IP	08 44 22.9
ALQ	E(P)	08 45 06.0
	E	45 25.0
JAN 14		
NEW	EP	09 23 18.0
JAN 14		
COL	EP	10 11 08.0
JAN 14		
H-10 59 24.9		
39.2N 70.7E		
h ABOUT 25KM		
COL	IP	11 10 47.4
NEW	EP	11 12 36.0

Date and Station	Phase (GCT)
	h m s
JAN 14	
H-11 20 44.3	
17.4S 179.2W	
h ABOUT 600KM	
EUR EP	11 32 02.4
TUC EP	11 32 04.0
BMO E(P)	11 32 17.4
JAN 14	
H-12 04 51.0	
52.1N 175.4E	
h ABOUT 41KM	
ADK IP	12 06 05.0
IS	07 03.5
COL IP	12 09 51.5
IS	14 16.0
KIP IP	12 11 59.2
NEW EP	12 12 39.0
E	12 50.0
EPCP	14 34.0
HHM EP	12 12 52.2
EpP	13 04.7
EPCP	14 40.4
EPP	14 50.7
ESCP	18 27.2
BMO EP	12 12 53.3
SLD E(P)	12 13 13.2
IpP	13 24.6
BOZ EP	12 13 16.0
EpP	13 27.0
ESCP	18 39.0
EUR EP C	12 13 25.2
EpP	13 36.4
ESCP	18 44.5
BCN EP	12 13 47.6
E	13 56.6
E	14 19.6
RCD EP	12 14 00.0
E	14 10.5
TUC E(P)	12 14 24.0
ALQ EP	12 14 30.4
EpP	14 41.2
WSC EP	12 15 57.2
EpP	16 08.7
JAN 14	
H-12 41 19.0	
4.1S 102.4E	
h ABOUT 48KM	
NEW EP'	13 00 14.0
HHM EP'	13 00 18.0
BMO EP'	13 00 18.4
BOZ EP'	13 00 24.1
EUR IP'	13 00 27.2
ESKP	03 46.6
BCN EP'	13 00 32.1
ALQ EP'	13 00 36.5
E	00 44.0
ESKP	04 15.2
WSC IP'	13 00 53.0
E	01 05.7
E	01 13.7
JAN 14	
BMO E(P)	13 02 42.7
JAN 14	
SJG IP	13 19 17.5
IS	19 42.7
JAN 14	
H-13 24 54.7	
13.7N 120.7E	
h ABOUT 53KM	
COL EP	13 36 51.0
JAN 14	
H-13 34 00.1	
18.4N 145.9E	
h ABOUT 125KM	
GUA IP	13 35 16.0
IS	36 09.0
COL EP	13 44 17.8
NEW IP	13 46 02.9
EpP	46 35.0
BMO EP	13 46 07.5
EpP	46 40.5
HHM EP	13 46 13.1
EpP	46 44.5
EUR IP D	13 46 21.1
IpP	46 53.6
BOZ EP	13 46 25.5
EpP	46 58.0
BCN EP	13 46 31.6
TUC EP	13 46 52.0
EpP	47 25.0
ALQ EP	13 47 03.0
EpP	47 36.0
JAN 14	
H-14 06 48.3	
43.4S 39.1E	
h ABOUT 33KM	
GUA EP'	14 25 18.0
RCD EP'	14 26 35.0
E	26 49.0
ALQ EP'	14 26 38.1
E	26 49.0
E	26 55.0
JAN 14	
H-14 13 40.7	
11.4S 165.8E	
h ABOUT 33KM	
COL IP	14 26 05.9
SLD E(P)	14 26 06.6
EUR IP C	14 26 30.4
BCN EP	14 26 30.7
BMO EP	14 26 32.8
NEW EP	14 26 38.0
TUC E(P)	14 26 38.8
HHM EP	14 26 44.7
BOZ EP	14 26 52.5
JAN 14	
BMO EP	14 31 08.5
EUR IP	14 31 21.8
JAN 14	
BMO EP	14 47 21.1
BOZ E(P)	14 47 41.5
COL IP	14 47 42.3
JAN 14	
H-15 29 15.3	
44.7N 81.6E	
h ABOUT 35KM	
COL IP	15 39 48.9
IpP	39 59.0
HHM E(P)	15 41 53.7
BMO EP	15 42 08.7
EpP	42 20.3
BOZ EP	15 42 10.5
EpP	42 21.0
EUR IP C	15 42 34.9
IpP	42 45.7
JAN 14	
EUR EP	15 32 51.2
JAN 14	
H-15 58 11.2	
16.9N 91.2W	
h ABOUT 5KM	
ALQ E(P)	16 03 10.0
TUC EP	16 03 23.8
EUR EP	16 04 33.9
BMO EP	16 05 09.0
JAN 14	
H-17 24 01.8	
52.0N 173.7W	
h ABOUT 33KM	
ADK IP	17 24 31.4
IS	24 56.2
COL EP	17 28 18.0
NEW EP	17 30 57.0
BMO EP	17 31 11.6
BOZ E(P)	17 31 36.0
EUR EP	17 31 44.0
JAN 14	
ADK IP	17 41 34.4
BMO E(P)	17 48 14.3
JAN 14	
COL IP	17 54 29.7
JAN 14	
ADK IP	18 09 48.7
IS	10 12.7
BMO E(P)	18 16 23.9
JAN 14	
SJG IP	18 46 35.0
IS	46 58.5
JAN 14	
BOZ EP	19 13 36.5
E(S)	13 44.0
HHM EPN	19 14 07.7
EL	14 42.2
JAN 14	
BCN E(P)	19 20 37.6
ES	20 55.1
GCA EP	19 20 45.8
IS	21 08.0
EUR IP C	19 21 03.8
E	21 13.4
EL	21 53.1
JAN 14	
SJG IP	19 58 50.0
IS	59 14.8
JAN 14	
COL EP	20 51 45.0
EUR IP	20 52 11.0
JAN 14	
H-20 58 01.3	
35.3S 107.7W	
h ABOUT 33KM	
EUR IP	21 09 40.2
BMO E(P)	21 10 01.4
JAN 14	
EUR EP	21 15 12.1
BMO EP	21 16 02.2

Date and Station	Phase	Phase (GCT) h m s
JAN 14		
EUR	EP	22 01 07.1
	E	01 13.2
	EL	01 54.0
JAN 14		
BOZ	EP	22 27 57.5
	ES	28 06.5
HHM	EPN	22 28 29.0
	EL	29 04.5
BMO	EPN	22 28 40.8
JAN 14		
BCN	E(P)	22 41 34.2
	ES	42 11.7
JAN 14		
ALQ	E(P)	22 45 05.0
	EL	45 30.0
JAN 15		
H-00 03 14.3		
29.8N 51.5E		
h ABOUT 33KM		
COL	E(P)	00 15 47.5
JAN 15		
SJG	EP	00 58 49.5
	IS	59 14.5
JAN 15		
BMO	E(P)	01 15 40.9
JAN 15		
H-01 26 55.1		
8.5S 111.5E		
h ABOUT 33KM		
BMO	EP'	01 45 53.1
BOZ	EP'	01 46 00.0
EUR	EP'D	01 46 00.7
JAN 15		
H-01 28 58.2		
12.3S 165.6E		
h ABOUT 33KM		
COL	EP	01 41 28.0
EUR	IP	01 41 51.0
BMO	EP	01 41 53.9
JAN 15		
COL	EP	03 35 37.2
JAN 15		
BOZ	EP	03 44 04.5
BMO	EP	03 45 23.5
JAN 15		
COL	EP	04 09 43.0
JAN 15		
COL	IP	04 22 57.0
JAN 15		
H-05 44 37.2		
37.5N 134.8E		
h ABOUT 386KM		
COL	E(P)	05 53 07.5
BMO	EP	05 55 41.9
	E(P)	57 09.7
BOZ	E(P)	05 55 56.2
	EpP	57 25.3
EUR	EP D	05 56 05.0
	EpP	57 33.5
JAN 15		
BMO	EP	05 50 11.5
EUR	EP	05 50 27.7
BOZ	E(P)	05 50 28.7
COL	EP	05 54 28.0
JAN 15		
BHP	IP C	06 51 17.5
	ES	52 01.6
JAN 15		
EUR	E(P)	07 20 38.7
JAN 15		
H-08 42 51.5		
52.1N 173.6W		
h ABOUT 33KM		
ADK	IP	08 43 21.5
	IS	43 46.3
COL	EP	08 47 09.0
NEW	IP	08 49 47.4
BMO	EP	08 50 01.4
BOZ	EP	08 50 26.0
EUR	IP	08 50 33.9
JAN 15		
ADK	IP	09 15 19.5
	IS	15 43.7
JAN 15		
H-09 16 17.0		
56.3N 153.7W		
h ABOUT 25KM		
COL	EP	09 18 26.0
NEW	EP	09 21 26.0
HHM	E(P)	09 21 41.7
BMO	EP	09 21 44.4
BOZ	E(P)	09 22 08.0
EUR	IP	09 22 24.2
BCN	EP	09 22 49.2
TUC	E(P)	09 23 33.0
JAN 15		
EUR	EP	09 29 07.5
JAN 15		
ADK	IP	10 16 41.6
	IS	17 06.8
JAN 15		
BMO	EP	10 36 54.4
EUR	EP	10 37 09.0
JAN 15		
BMO	EP	11 51 36.6
JAN 15		
H-12 17 46.7		
35.4N 139.1E		
h ABOUT 28KM		
BMO	EP	12 29 23.5
EUR	IP	12 29 45.9
JAN 15		
TUC	E(P)	12 46 48.0
JAN 15		
COL	EP	13 05 33.0
JAN 15		
H-13 23 47.0		
59.1S 159.2E		
h ABOUT 33KM		
BMO	EP'	13 42 43.3
JAN 15		
TUC	E(P)	14 13 30.0
JAN 15		
BMO	E(P)	14 31 36.9
EUR	EP	14 32 09.0
COL	EP	14 34 42.0
JAN 15		
H-15 05 38.9		
25.6S 70.6W		
h ABOUT 16KM		
TUC	EP	15 16 45.0
	E	16 55.0
ALQ	EP	15 16 47.0
BCN	E(P)	15 17 17.2
EUR	IP	15 17 35.5
BOZ	EP	15 17 49.3
BMO	EP	15 18 00.5
HHM	EP	15 18 06.7
NEW	EP	15 18 12.0
JAN 15		
H-18 03 18.0		
6.9N 73.0W		
h ABOUT 160KM		
EUR	EP	18 12 00.9
BMO	EP	18 12 26.2
JAN 15		
COL	E(P)	19 54 25.0
JAN 15		
H-19 58 42.5		
55.7N 110.8E		
h ABOUT 11KM		
COL	IP	20 07 06.1
NEW	EP	20 09 49.0
HHM	EP	20 09 53.2
BMO	IP	20 10 07.1
BOZ	EP	20 10 13.0
EUR	IP	20 10 38.5
SLC	E(P)	20 10 38.7
	I	10 42.5
SLD	EP	20 10 40.0
BCN	E(P)	20 10 56.7
ALQ	EP	20 11 16.6
TUC	E(P)	20 11 22.0
JAN 15		
BMO	E(P)	20 16 33.4
JAN 15		
H-20 27 36.9		
29.1N 43.3W		
h ABOUT 33KM		
ALQ	EP	20 36 54.3
TUC	E(P)	20 37 24.0
NEW	EP	20 37 31.0
EUR	EP	20 37 39.0
BCN	EP	20 37 39.7
COL	EP	20 38 45.7
JAN 15		
H-22 18 09.8		
38.1N 74.1E		
h ABOUT 168KM		
COL	IP	22 29 17.6
JAN 15		
COL	IP	23 07 07.9
JAN 15		
H-23 26 22.5		
37.4N 118.6W		
h ABOUT 4KM		
SLD	IP D	23 26 59.8
	E(S)	27 26.5
	IL	27 28.6

Date and Station	Phase (GCT)
	h m s
EUR IP C	23 27 10.5
I	27 15.4
IL	27 54.2
BCN E(P)	23 27 17.7
I	27 23.7
ELG	28 09.2
BMO E(P)	23 28 26.2
JAN 16	
SLD E(P)	00 27 05.3
EL	27 33.0
EUR EP	00 27 22.0
EL	28 00.0
JAN 16	
H-01 54 50.9	
37.4N 118.6W	
h ABOUT 5KM	
SLD IP D	01 55 28.7
I(S)	55 55.5
IL	55 57.1
EUR IP C	01 55 38.4
ELG	56 23.2
BCN E(P)	01 55 51.7
ELG	56 36.2
BMO E(P)	01 56 55.5
JAN 16	
H-03 32 09.2	
36.4N 138.1E	
h ABOUT 11KM	
COL EP	03 41 13.0
NEW EP	03 43 42.0
BMO EP	03 43 47.9
SLD E(P)	03 44 01.0
EUR IP	03 44 12.0
BCN EP	03 44 26.7
TUC E(P)	03 44 51.0
ALQ E(P)	03 44 56.5
JAN 16	
EUR E(P)	03 43 20.2
JAN 16	
H-03 50 45.2	
18.5S 169.4E	
h ABOUT 253KM	
COL EP	04 03 11.0
BCN E(P)	04 03 16.7
EUR IP D	04 03 19.0
TUC EP	04 03 24.7

Date and Station	Phase (GCT)
	h m s
JAN 16	
H-04 44 24.7	
11.3S 165.7E	
h ABOUT 12KM	
COL IP	04 56 53.1
SLD EP	04 56 54.0
EUR EP	04 57 14.9
EPP	05 00 51.0
BCN EP	04 57 16.7
BMO EP	04 57 19.7
NEW EP	04 57 26.0
TUC E(P)	04 57 28.5
BOZ EP	04 57 39.3
ALQ E(P)	04 57 50.0
EPP	05 01 23.0
JAN 16	
GUA E(P)	04 54 48.0
JAN 16	
BMO EP	06 05 06.6
JAN 16	
COL EP	06 30 29.0
JAN 16	
COL EP	06 49 31.0
JAN 16	
H-07 11 12.2	
24.2S 66.8W	
h ABOUT 188KM	
SJG IP D	07 18 44.0
IpP	19 29.0
ES	24 45.0
CSC EP	07 20 56.0
ALQ IP D	07 22 04.4
TUC EP	07 22 06.0
BCN EP	07 22 36.2
SLC EP	07 22 46.5
EUR IP	07 22 53.2
SLD IP D	07 23 01.0
BOZ IP C	07 23 05.0
EsP	24 09.5
BUT EP	07 23 09.6
BMO EP	07 23 16.3
HHM EP C	07 23 21.2
NEW IP	07 23 27.1
COL EP	07 25 12.0
EP'	29 17.0

Date and Station	Phase (GCT)
	h m s
GUA EP'	07 30 38.0
JAN 16	
H-07 22 10.7	
5.2N 77.7W	
h ABOUT 30KM	
BHP IP C	07 23 11.3
IS	24 00.4
TUC EP	07 29 54.6
BCN EP	07 30 33.7
EUR IP	07 30 54.0
BOZ EP	07 31 04.0
BMO EP	07 31 21.8
HHM E(P)	07 31 27.4
NEW EP	07 31 37.0
COL IP	07 34 02.0
JAN 16	
BMO E(P)	07 28 34.9
JAN 16	
H-07 31 51.1	
24.2S 66.8W	
h ABOUT 185KM	
BMO EP	07 43 55.5
JAN 16	
BMO E(P)	07 31 58.4
JAN 16	
COL EP	07 42 02.0
JAN 16	
TUC (PN)	07 48 54.0
ALQ E(P)	07 49 53.0
E	50 08.0
JAN 16	
H-09 22 45.9	
37.7N 107.9W	
h ABOUT 33KM	
ALQ E(P)	09 23 31.5
ELG	24 11.0
FGU E(P)	09 23 39.3
ILG	24 27.5
EUR EP	09 24 23.0
EL	26 03.0
BMO EP	09 25 11.3
JAN 16	
COL EP	10 35 04.4
JAN 16	
COL EP	10 43 26.0
JAN 16	
H-11 09 06.6	
10.7S 161.4E	
h ABOUT 27KM	

Date and Station	Phase (GCT)
	h m s
KIP EP C	11 18 09.6
COL IP	11 21 35.9
EUR IP C	11 22 11.1
I	22 23.8
EPP	25 50.4
BMO IP	11 22 11.8
E	22 57.0
NEW IP	11 22 15.7
HHM E(P)	11 22 25.0
BOZ EP	11 22 30.3
ALQ E(P)	11 22 41.0
JAN 16	
COL EP	11 43 45.4
JAN 16	
H-11 46 14.2	
10.7S 161.4E	
h ABOUT 16KM	
COL IP	11 58 45.2
EUR IP	11 59 20.2
BMO EP	11 59 20.7
NEW EP	11 59 25.0
JAN 16	
H-12 22 33.7	
10.6S 161.4E	
h ABOUT 35KM	
COL IP	12 35 01.2
EUR IP	12 35 37.0
BMO EP	12 35 37.3
JAN 16	
COL EP	12 28 05.0
JAN 16	
COL EP	14 12 04.3
EUR EP C	14 12 38.4
JAN 16	
H-14 26 27.0	
11.2S 165.7E	
h ABOUT 30KM	
GUA E(P)	14 33 02.0
ES	37 52.0
HON IP D	14 35 07.6
IS	42 17.4
KIP EP	14 35 09.0
COL EP	14 38 51.8
EpP	39 02.0
SLD EP	14 38 52.1
EUR IP	14 39 15.6

Date and Station	Phase	Phase (GCT) h m s
BMO	EP	14 39 18.4
NEW	EP	14 39 22.0
TUC	E(P)	14 39 28.5
SLC	EP	14 39 33.1
HHM	EP	14 39 34.0
BOZ	EP	14 39 38.7
ALQ	E(P)	14 39 45.0
SJG	EP'	14 45 35.0
	E	48 23.0
JAN 16		
H-14 39 09.6		
5.8N 123.6E		
h ABOUT 44KM		
COL	EP	14 51 37.0
	I	51 42.2
JAN 16		
H-14 48 49.1		
11.4S 165.7E		
h ABOUT 30KM		
COL	IP	15 01 15.2
	I	01 28.0
SLD	EP	15 01 17.4
EUR	EP C	15 01 38.6
	IpP	01 48.6
	EPP	05 06.0
BMO	EP	15 01 41.8
	EpP	01 50.8
TUC	E(P)	15 01 50.5
NEW	E(P)	15 01 55.0
HHM	E(P)	15 01 56.0
BOZ	E(P)	15 02 00.0
	EpP	02 10.5
JAN 16		
H-14 58 39.8		
11.4S 165.8E		
h ABOUT 30KM		
COL	IP	15 11 06.8
JAN 16		
H-15 30 47.0		
10.6N 85.9W		
h ABOUT 33KM		
ALQ	EP	15 37 02.2
	E	37 15.0
EUR	EP	15 38 13.8
BMO	EP	15 38 47.3
JAN 16		
COL	EP	15 59 47.5
	I	16 00 02.3
JAN 16		
H-16 02 21.9		
11.3S 165.6E		
h ABOUT 30KM		
GUA	E(P)	16 08 43.0
	ES	14 02.0
KIP	E(P)	16 11 11.0
HON	E(P)	16 11 12.0
	ES	18 10.0
COL	IP	16 14 47.6
SLD	EP	16 14 49.0
EUR	EP	16 15 12.2
	E(PP)	18 41.1
BMO	EP	16 15 14.2
	EpP	15 25.0
TUC	E(P)	16 15 23.5
HHM	EP	16 15 29.0
BOZ	EP	16 15 33.5
JAN 16		
ALQ	IP	18 14 49.1
JAN 16		
SJG	IP	18 27 36.0
	IS	28 18.0
JAN 16		
COL	EP	19 20 42.0
JAN 16		
H-19 37 52.0		
37.4N 118.5W		
h ABOUT 33KM		
SLD	IP C	19 38 26.6
	ES	38 51.1
	IL	38 55.7
EUR	EP	19 38 37.0
	I	38 41.7
	IL	39 21.5
LVN	EP	19 38 42.0
BMO	EPG	19 40 06.9
JAN 16		
COL	IP	19 45 53.4
JAN 16		
ALQ	E(P)	20 36 39.0
	EL	37 17.5
JAN 16		
ALQ	E(P)	21 23 32.4
JAN 16		
COL	IP	23 00 09.2
JAN 16		
LVN	E(P)	23 36 55.0
SLD	E(P)	23 37 09.8
	EL	37 54.5
EUR	EP	23 37 22.5
JAN 16		
BMO	EP	23 52 51.6
JAN 16		
H-23 54 07.8		
34.0N 136.8E		
h ABOUT 365KM		
BMO	EP	24 05 21.3
EUR	EP	24 05 42.5
JAN 16		
COL	EP	23 58 36.7
	E	58 42.9
	E	58 46.5
JAN 17		
H-00 32 47.6		
43.1N 147.6E		
h ABOUT 20KM		
COL	EP	00 40 32.0
EUR	EP	00 43 52.4
JAN 17		
H-00 50 08.5		
44.2N 128.6W		
h ABOUT 33KM		
BMO	EP	00 52 04.5
NEW	IP	00 52 17.5
EUR	EP	00 52 41.4
BOZ	E(P)	00 53 00.0
ALQ	EP	00 54 35.0
JAN 17		
H-00 51 53.2		
11.4S 165.6E		
h ABOUT 33KM		
COL	IP	01 04 19.2
EUR	EP	01 04 44.8
JAN 17		
H-01 07 54.3		
27.4S 63.3W		
h ABOUT 588KM		
BHP	IP D	01 14 36.2
	IS	19 56.5
SJG	IP D	01 15 19.7
	IpP	17 07.5
	IsP	18 08.0
	IS	21 14.0
	ISCS	24 11.0
CSC	IP	01 17 27.8
	EPCP	17 59.0
	EpP	19 25.0
	EsP	20 28.0
ALQ	IP D	01 18 34.1
	EpP	20 36.5
	ES	27 21.4
TUC	IP	01 18 35.8
	IpP	20 38.5
	ES	27 25.0
GCA	IP D	01 18 57.8
	IpP	21 01.5
RCD	EP	01 19 04.0
	EpP	21 08.0
	ES	28 20.0
FGU	IP D	01 19 06.2
	IpP	21 11.5
	IS	28 25.5
SLC	IP	01 19 11.7
	IpP	21 17.5
EUR	IP D	01 19 18.5
	IpP	21 24.0
	ISKS	28 46.5
	IPKKP	37 38.0
	IpPKKP	39 54.0
	P'P'	45 42.5
	pP'P'	47 55.5
SLD	IP D	01 19 26.0
	IpP	21 32.0
	E(S)	29 04.5
BOZ	IP D	01 19 29.2
	IpP	21 35.5
	IS	29 04.0
	IPKKP	37 33.4
	EpPKKP	39 47.5
BUT	EP	01 19 33.1
	EpP	21 39.0
	ES	29 15.6
BMO	IP	01 19 39.5
	EpP	21 45.8
HHM	IP D	01 19 43.2
	EpP	21 52.0
	ES	29 15.5
	EPKKP	37 25.0
NEW	IP	01 19 49.2
	IpP	21 58.0
PMR	EP'	01 25 22.8
COL	IP'	01 25 23.3
GUA	EP'	01 26 36.0
JAN 17		
H-01 17 20.7		
14.7S 167.2E		
h ABOUT 104KM		
KIP	IP	01 26 04.6
	IpP	26 27.0
COL	IP	01 29 51.3
EUR	IP	01 30 07.4
	IpP	30 32.2
BMO	EP	01 30 11.0
	EpP	30 39.0

Date and Station	Phase (GCT)
	h m s
JAN 17	
GUA EP	01 28 51.0
JAN 17	
COL IP	01 33 42.6
JAN 17	
NEW EP	01 39 36.0
HHM E(P)	01 40 23.5
BOZ E(P)	01 40 46.3
JAN 17	
BOZ E(P)	01 47 48.5
EUR IP	01 47 56.1
JAN 17	
BMO EP	01 55 37.5
JAN 17	
COL IP	02 09 39.5
BMO EP	02 12 43.5
EUR IP	02 13 16.1
JAN 17	
BMO E(P)	02 14 29.5
JAN 17	
COL EP	02 33 35.0
JAN 17	
H-02 59 10.2	
5.7S 145.9E	
h ABOUT 42KM	
COL EP	03 11 43.0
JAN 17	
H-03 21 18.3	
20.2S 177.7W	
h ABOUT 500KM	
EUR IP	03 32 50.6
TUC EP	03 32 50.9
BMO EP	03 33 01.1
NEW EP	03 33 11.0
ALQ EP	03 33 11.5
EpP	35 04.0
COL IP	03 33 13.6
EpP	35 08.0
HHM E(P)	03 33 18.5
BOZ EP	03 33 19.7
JAN 17	
COL EP	04 44 39.0
JAN 17	
H-04 52 31.1	
11.5S 165.5E	
h ABOUT 33KM	
COL EP	05 04 57.0

Date and Station	Phase (GCT)
	h m s
JAN 17	
H-05 29 39.1	
51.8N 174.5W	
h ABOUT 33KM	
ADK IP	05 30 00.7
IS	30 17.5
COL EP	05 34 00.0
NEW EP	05 36 41.0
BMO EP	05 36 55.8
BOZ E(P)	05 37 17.8
EUR EP	05 37 24.5
JAN 17	
H-05 58 09.0	
5.3S 150.5E	
h ABOUT 153KM	
GUA EP	06 02 28.0
COL EP	06 10 17.3
JAN 17	
NEW EP	06 47 22.0
JAN 17	
COL EP	07 01 23.0
JAN 17	
BMO EP	07 06 46.6
JAN 17	
BMO EP	07 33 16.5
JAN 17	
H-10 25 23.7	
58.3S 25.4W	
h ABOUT 39KM	
TUC EP'	10 44 00.5
EUR IP'	10 44 16.2
SLD EP'	10 44 18.3
BOZ EP'	10 44 22.3
BMO IP'	10 44 25.1
HHM EP'	10 44 26.5
NEW EP'	10 44 27.0
PMR IP'	10 45 14.9
COL IP'	10 45 15.3
JAN 17	
H-10 50 46.5	
30.6S 177.9W	
h ABOUT 31KM	
TUC EP	11 03 41.5
E	03 56.9
EUR IP	11 03 46.6
BMO EP	11 03 58.0
E	04 13.3

Date and Station	Phase (GCT)
	h m s
JAN 17	
EUR EP	11 15 26.6
JAN 17	
H-11 59 31.6	
38.3N 142.1E	
h ABOUT 44KM	
GUA EP	12 04 51.0
ES	08 15.0
ADK E(P)	12 06 01.5
PMR IP	12 08 00.6
COL IP C	12 08 05.2
IpP	08 18.1
IS	15 01.0
EL	18 46.0
HON IP D	12 08 16.2
IS	16 21.0
KIP IP C	12 08 52.3
SIT E(P)	12 09 08.0
IS	16 44.0
NEW IP	12 10 33.1
HHM IP C	12 10 43.5
EpP	10 56.5
IS	19 54.0
BMO IP	12 10 44.6
BUT EP	12 10 57.0
EpP	11 10.1
ES	20 17.6
SLD IP D	12 10 58.3
IpP	11 10.7
BOZ IP D	12 11 02.0
IpP	11 14.7
IS	20 28.0
EUR IP C	12 11 08.5
IpP	10 19.2
IPP	13 50.4
IS	20 41.5
SLC IP	12 11 17.8
IpP	11 30.8
BCN EP	12 11 25.3
EpP	11 37.8
FGU EP	12 11 25.5
E	11 34.5
LVN EP	12 11 26.5
TUC EP	12 11 50.7
EpP	22 05.0
ALQ EP C	12 11 56.0
EpP	12 10.0
ES	22 16.0
CSC E(P)	12 13 02.5

Date and Station	Phase (GCT)
	h m s
JAN 17	
H-12 26 21.8	
38.2N 142.1E	
h ABOUT 47KM	
COL EP	12 34 57.0
NEW EP	12 37 23.0
HHM E(P)	12 37 34.0
BMO EP	12 37 34.5
BOZ EP	12 37 51.5
EpP	38 05.5
EUR IP	12 37 58.8
JAN 17	
BHP EP	12 29 19.0
ES	36 12.0
JAN 17	
PMR IP	12 36 36.2
IS	36 54.9
JAN 17	
H-12 41 10.8	
43.2N 147.5E	
h ABOUT 22KM	
COL EP	12 48 57.0
BMO E(P)	12 51 58.2
EUR EP	12 52 13.0
JAN 17	
BMO E(P)	14 44 42.6
JAN 17	
ADK EP	15 20 13.7
IS	20 37.3
E	22 06.0
COL EP	15 24 15.7
BMO EP	15 26 56.9
EUR IP	15 27 29.8
JAN 17	
BMO EP	16 01 27.9
JAN 17	
COL EP	16 10 17.0
JAN 17	
BMO EP	17 29 31.0
JAN 17	
COL EP	18 04 06.0
JAN 17	
BOZ EPN	18 53 39.0
E	53 54.5
EL	53 56.0
EUR E(P)	18 54 19.4
JAN 17	
COL EP	19 26 48.0

Date and Station	Phase	Phase (GCT) h m s
JAN 17		
COL	EP	19 47 03.0
JAN 17		
H-19 50 11.7		
5.1N 77.7W		
h ABOUT 87KM		
EUR	EP	19 58 49.2
JAN 17		
H-19 51 04.7		
11.4S 165.5E		
h ABOUT 19KM		
COL	IP	20 03 32.5
EUR	EP	20 03 57.6
JAN 17		
BOZ	EPN	22 54 00.0
	E	54 11.0
	EL	54 15.4
JAN 17		
ALQ	E(P)	23 05 36.8
	EL	06 02.2
JAN 17		
H-23 07 00.1		
32.3N 115.0W		
h ABOUT 11KM		
TUC	E(P)	23 08 02.7
LVN	EP	23 08 06.5
BCN	E(P)	23 08 10.4
	EL	08 54.9
GCA	E(P)	23 08 31.2
	ILG	09 48.5
EUR	I(P)	23 08 59.0
	I	10 44.5
ALQ	E(P)	23 09 11.0
	E	10 16.0
	EL	11 08.0
JAN 17		
BCN	(PN)	23 12 09.4
	EL	12 54.4
GCA	EP	23 12 32.0
	ILG	12 47.8
JAN 17		
PMR	IP	23 43 59.6
	ES	44 20.4
JAN 18		
BMO	E(P)	00 20 11.6
JAN 18		
TUC	(PN)	00 25 25.5
JAN 18		
MID	EP	02 13 40.5
	ES	14 01.3
JAN 18		
H-04 20 53.7		
48.9N 154.9E		
h ABOUT 45KM		
BRW	EP C	04 27 12.0
COL	IP C	04 27 33.2
	EPP	27 45.9
NEW	IP	04 30 21.7
	IPCP	31 23.0
HHM	EP	04 30 33.1
	E	30 43.1
	EPCP	31 29.4
BMO	EP	04 30 36.3
SLD	EP	04 30 53.5
BOZ	IP C	04 30 55.0
	IPP	31 08.5
EUR	IP C	04 31 05.8
	IPP	31 18.9
SLC	EP	04 31 15.7
	E	31 26.0
FGU	EP	04 31 23.4
BCN	EP	04 31 25.9
	E	31 30.9
	E	31 40.8
GCA	EP	04 31 32.8
TUC	EP	04 31 56.8
ALQ	IP C	04 32 01.4
	E	32 18.5
WSC	E(P)	04 33 06.0
JAN 18		
BMO	EP	04 23 00.6
EUR	EP	04 23 12.7
JAN 18		
EUR	EP	05 23 03.4
JAN 18		
H-05 34 32.7		
56.7N 120.9E		
h ABOUT 9KM		
BRW	IP	05 41 32.5
	I	41 53.4
COL	EP	05 42 21.4
	I	42 26.2
	I	42 34.3
	EPP	44 12.0
	IS	48 39.0
	IL	45 53.0
PMR	EP	05 42 31.8
	ES	43 10.6
GUA	IP	05 43 05.0
	ES	49 56.0
SIT	EP	05 43 41.0
	ES	51 06.0
NEW	EP	05 45 11.0
	ES	54 00.0
HHM	IP C	05 45 20.0
	EPCP	45 53.4
	IS	54 05.0
BMO	EP	05 45 31.6
HON	EP D	05 45 32.0
	IS	54 33.2
KIP	EP	05 45 33.0
BUT	EP	05 45 37.0
	IS	54 17.2
BOZ	IP	05 45 39.0
	IPCP	46 04.0
	ES	54 50.0
EUR	EP D	05 46 03.3
	I	46 04.5
	IPP	49 15.3
SLD	EP	05 46 03.5
	I	46 05.7
	E(S)	55 36.0
SLC	EP	05 46 05.3
	ES	55 37.7
FGU	EP	05 46 07.9
BCN	EP	05 46 25.4
	EPCP	46 46.9
GCA	EP	05 46 25.5
LVN	IP	05 46 27.5
ALQ	EP D	05 46 45.0
	EPP	49 50.0
	ES	57 00.5
TUC	EP	05 46 50.5
	ES	57 06.0
WSC	EP	05 47 01.5
CSC	EP	05 47 23.0
	ESKS	57 48.0
SJG	EP'	05 53 01.6
	ESKKS	06 00 44.0
JAN 18		
H-05 34 34.6		
19.7N 108.7W		
h ABOUT 33KM		
TUC	E(P)	05 37 36.9
	E	37 44.0
BCN	EP	05 38 33.9
EUR	EP	05 39 14.3
BMO	EP	05 40 08.2
JAN 18		
BMO	IP	05 45 13.3
JAN 18		
BHP	IP D	05 53 52.8
	IS	06 03 28.0
JAN 18		
H-06 12 00.6		
40.1N 107.0W		
h ABOUT 33KM		
FGU	IP	06 12 33.1
	I	12 33.9
	ILG	13 00.7
BOZ	E(P)	06 13 45.0
JAN 18		
H-06 21 28.7		
45.4N 151.0E		
h ABOUT 38KM		
COL	EP	06 28 46.0
BMO	EP	06 31 44.7
EUR	IP	06 32 11.2
JAN 18		
COL	EP	06 25 38.5
BMO	EP	06 28 48.4
EUR	EP	06 29 19.3
JAN 18		
BMO	E(P)	06 39 34.0
JAN 18		
H-06 58 20.4		
47.3N 122.6W		
h ABOUT 22KM		
NEW	EP	06 59 19.0
	ELG	07 00 16.0
BMO	EPN	06 59 27.8
BOZ	E(P)	07 00 18.5
	EL	01 58.0
HHM	E(P)	07 00 05.0
	EL	01 16.4
JAN 18		
BMO	EP	07 38 37.6
JAN 18		
H-07 48 18.3		
14.9N 91.9W		
h ABOUT 93KM		
ALQ	EP	07 53 24.8
TUC	E(P)	07 53 30.0
EUR	IP	07 54 39.8
BMO	EP	07 55 17.5

Date and Station	Phase (GCT)
	h m s
JAN 18	
H-08 18 22.0	
52.5N 168.2W	
h ABOUT 33KM	
ADK IP	08 19 38.9
IS	20 37.2
PMR IP	08 21 34.2
COL EP	08 22 06.0
I	22 10.5
IS	25 20.0
BRW EP	08 22 47.5
SIT IP	08 22 48.0
IS	26 32.0
KIP IP	08 24 47.6
NEW EP	08 24 49.8
ES	30 05.0
UKI E(P)	08 25 02.6
BMO EP	08 25 03.2
E	25 19.3
HHM IP C	08 25 05.1
I	25 20.4
IPCP	27 42.4
ES	30 45.4
BUT EP	08 25 22.7
ES	31 03.2
ESCP	31 18.2
SLD IP C	08 25 23.0
I	25 39.2
I	28 04.4
BOZ IP C	08 25 29.0
I	25 38.5
I	27 22.5
ES	31 15.0
EL	33 48.0
EUR IP D	08 25 37.2
I	27 16.2
E	31 55.6
E	36 13.0
SLC EP	08 25 51.4
E	26 10.6
BCN EP	08 26 01.9
E	26 22.9
FGU EP	08 26 01.9
GCA EP	08 26 12.0
RCD E(P)	08 26 17.5
E	26 34.5
ES	32 26.0
TUC EP	08 26 40.8
ES	33 26.0

Date and Station	Phase (GCT)
	h m s
ALQ EP D	08 26 47.2
E	27 03.5
EPP	28 37.0
ES	33 36.0
EL	37 00.0
WSC EP	08 28 31.5
CSC EP	08 28 41.0
E	28 58.0
SJG EP	08 30 46.3
ES	41 04.0
JAN 18	
H-08 29 03.5	
42.0N 142.6E	
h ABOUT 66KM	
COL IP C	08 37 09.6
NEW IP	08 39 44.8
HHM EP	08 39 55.4
BMO EP	08 39 57.8
SLD IP C	08 40 13.8
BOZ EP	08 40 14.2
E	40 28.5
EUR IP	08 40 23.6
BCN EP	08 40 40.9
RCD EP	08 40 45.5
TUC E(P)	08 41 08.7
ALQ EP	08 41 13.0
JAN 18	
COL IP	08 30 43.1
JAN 18	
EUR E(P)	08 55 52.0
E	58 03.3
BMO EP	08 56 10.7
JAN 18	
BMO E(P)	08 57 49.1
JAN 18	
H-09 05 58.9	
52.4N 168.3W	
h ABOUT 33KM	
ADK IP	09 07 15.7
IS	08 11.9
COL EP	09 09 44.4
EUR EP	09 13 13.4
JAN 18	
BMO EP	09 07 41.4
JAN 18	
NEW EP	10 02 32.0

Date and Station	Phase (GCT)
	h m s
JAN 18	
H-10 23 45.3	
24.1S 66.9W	
h ABOUT 213KM	
EUR EP	10 35 23.0
JAN 18	
NEW EP	10 38 06.0
JAN 18	
H-10 41 54.1	
60.5N 152.4W	
h ABOUT 96KM	
PMR IP	10 42 26.5
COL IP	10 43 06.6
ES	44 20.0
SIT E(P)	10 44 05.3
BRW EP	10 44 29.1
NEW EP	10 46 57.0
IpP	47 18.0
HHM E(P)	10 47 05.1
EpP	47 29.0
BMO EP	10 47 19.3
EpP	47 40.3
BOZ E(P)	10 47 39.0
EpP	47 57.5
SLD EP	10 48 01.3
EpP	48 23.4
EUR EP D	10 48 03.2
IpP	48 21.6
BCN EP	10 48 32.4
EpP	48 54.9
ALQ EP	10 49 12.4
EpP	49 34.0
TUC EP	10 49 14.2
EpP	49 36.7
WSC E(P)	10 50 42.0
EpP	51 02.5
JAN 18	
HHM E(P)	10 51 06.4
BOZ E(P)	10 51 08.0
EUR EP	10 51 22.8
BCN EP	10 51 31.9
ALQ E(P)	10 51 43.0
JAN 18	
BOZ E(P)	10 54 21.5
EUR IP	10 54 31.2
JAN 18	
BMO EP	11 27 28.9
BOZ E(P)	11 27 47.2

Date and Station	Phase (GCT)
	h m s
EUR IP	11 28 00.5
JAN 18	
BMO EP	11 56 57.4
JAN 18	
H-12 35 33.1	
22.7S 172.7E	
h ABOUT 44KM	
EUR IP	12 48 33.1
COL EP	12 48 39.0
JAN 18	
LVN EP	13 32 31.5
BCN EPN	13 ?2 32.9
ES	32 57.9
EUR EP	13 32 36.3
IS	33 10.2
JAN 18	
SJG IP	13 44 13.5
IS	44 30.7
JAN 18	
H-13 46 35.5	
58.4S 25.7W	
h ABOUT 22KM	
EUR EP'	14 05 30.0
BOZ EP'	14 05 35.5
BMO EP'	14 05 39.3
HHM EP'	14 05 41.0
NEW EP'	14 05 42.0
COL IP'	14 06 29.0
JAN 18	
EUR E(P)	14 15 23.8
JAN 18	
H-14 29 55.4	
18.1S 175.3W	
h ABOUT 266KM	
BMO EP	14 41 45.8
EpP	42 49.4
COL IP	14 42 02.6
BOZ E(P)	14 42 06.0
EpP	43 09.5
JAN 18	
EUR E(P)	15 27 08.8
EL	28 15.0
JAN 18	
H-15 28 02.5	
47.3N 152.1E	
h ABOUT 139KM	
BRW IP	15 34 33.0
COL IP	15 34 53.5
NEW EP	15 37 38.0

Date and Station	Phase	(GCT) h m s
HHM	EP	15 37 49.6
BMO	EP	15 37 52.0
BOZ	EP	15 38 10.2
EUR	IP C	15 38 20.0
	EpP	38 53.3
ALQ	EP	15 39 14.0
JAN 18		
BMO	EP	15 29 58.1
JAN 18		
SJG	IP	15 57 33.0
	IS	57 44.5
JAN 18		
H-16 08 01.0		
19.5S 169.9E		
h ABOUT 5KM		
EUR	EP	16 21 06.8
JAN 18		
BMO	E(P)	16 12 41.1
JAN 18		
SJG	IP	17 42 05.7
	IS	42 15.2
JAN 18		
BCN	(PN)	17 43 04.9
	ES	43 39.4
EUR	EP	17 43 40.5
	EL	45 06.7
JAN 18		
SJG	IP	18 16 24.5
	IS	16 41.6
JAN 18		
SJG	IP	19 09 29.5
	ES	09 47.0
JAN 18		
H-19 46 19.7		
54.1N 163.4W		
h ABOUT 33KM		
COL	EP	19 49 34.0
	E	49 38.0
BMO	EP	19 52 34.1
EUR	IP	19 53 09.8
BCN	EP	19 53 36.4
JAN 18		
ALQ	EP	19 56 10.1
JAN 18		
ALQ	E(P)	21 23 16.2
	EL	23 51.2
JAN 18		
PMR	IP	21 31 24.5
	IS	31 40.5
COL	IP	21 32 04.4

Date and Station	Phase	(GCT) h m s
JAN 18		
H-21 49 22.7		
48.1N 103.0E		
h ABOUT 13KM		
COL	IP	21 58 53.7
NEW	IP	22 01 22.3
HHM	EP	22 01 26.4
BMO	EP	22 01 38.6
BOZ	EP	22 01 43.5
	E	01 47.5
EUR	IP	22 02 06.0
BCN	EP	22 02 23.5
ALQ	EP C	22 02 39.6
	E	02 44.5
JAN 18		
BCN	EPN	22 20 08.0
	E(S)	20 26.5
GCA	EP	22 20 16.3
	IS	20 40.5
EUR	EP	22 20 34.0
	IL	21 19.2
JAN 18		
BMO	E(P)	22 40 37.0
JAN 18		
BCN	EPN	22 55 14.5
	ES	55 43.5
JAN 18		
ALQ	E(P)	23 03 58.4
	EL	04 18.4
JAN 18		
ALQ	E(P)	23 04 50.0
JAN 18		
EUR	E(P)	23 19 00.7
JAN 18		
BCN	E(P)	23 54 26.5
EUR	EP	23 55 02.1
JAN 19		
BMO	E(P)	00 34 13.8
EUR	EP	00 34 48.7
JAN 19		
ADK	IP	00 46 19.0
	IS	46 31.3
JAN 19		
H-00 58 28.8		
3.3S 135.3E		
h ABOUT 40KM		
COL	EP	01 11 13.0
	EpP	11 25.0
BMO	EP	01 12 32.0

Date and Station	Phase	(GCT) h m s
JAN 19		
H-01 14 10.5		
56.3N 153.8W		
h ABOUT 33KM		
COL	E(P)	01 16 21.4
	I	16 33.7
BMO	E(P)	01 19 38.6
JAN 19		
H-02 12 25.3		
60.7N 147.7W		
h ABOUT 32KM		
PMR	IP	02 12 44.4
COL	IP C	02 13 28.4
	IS	14 17.7
NEW	IP	02 17 13.0
HHM	EP	02 17 27.3
BMO	EP	02 17 38.0
BOZ	E(P)	02 17 57.0
	E	18 04.5
EUR	EP	02 18 23.5
JAN 19		
H-02 19 23.1		
12.6N 86.6W		
h ABOUT 200KM		
SJG	E(P)	02 23 48.5
ALQ	E(P)	02 25 03.4
EUR	IP	02 26 18.5
BOZ	E(P)	02 26 33.7
BMO	EP	02 26 51.0
JAN 19		
BMO	EP	04 15 30.6
JAN 19		
SLD	E(P)	04 53 09.0
	EL	53 34.7
JAN 19		
BCN	EPN	05 56 22.5
	ES	56 54.5
	EL	57 04.0
EUR	EP	05 57 04.4
	EL	58 31.5
TUC	E(P)	05 57 11.2
SLD	E(P)	05 57 25.5
JAN 19		
COL	EP	07 16 48.0
JAN 19		
COL	EP	07 33 52.0
JAN 19		
BMO	EP	09 47 04.2
	E	47 14.9

Date and Station	Phase	(GCT) h m s
JAN 19		
H-10 04 07.2		
30.2N 138.8E		
h ABOUT 418KM		
BMO	EP	10 15 24.2
HHM	E(P)	10 15 24.8
BOZ	E(P)	10 15 32.7
JAN 19		
H-12 38 31.2		
11.8S 166.4E		
h ABOUT 154KM		
GUA	EP	12 44 54.0
HON	E(P)	12 47 04.0
SLD	EP	12 50 43.5
COL	IP C	12 50 43.9
BRW	EP	12 50 57.6
EUR	IP	12 51 05.5
BCN	EP	12 51 05.5
BMO	EP	12 51 08.9
NEW	EP	12 51 13.0
TUC	E(P)	12 51 16.0
GCA	EP	12 51 19.5
HHM	EP	12 51 23.5
BUT	E(P)	12 51 26.0
BOZ	EP	12 51 27.5
FGU	EP	12 51 29.0
ALQ	E(P)	12 51 32.5
SJG	EP'	12 57 22.0
JAN 19		
H-12 39 04.3		
11.8S 166.4E		
h ABOUT 133KM		
COL	EP	12 51 17.2
SLD	IP	12 51 19.2
SIT	IP	12 51 20.0
	IS	13 02 34.0
BRW	IP	12 51 33.1
	EpP	52 08.0
BCN	EP	12 51 42.0
BMO	EP	12 51 45.8
NEW	EP	12 51 49.0
TUC	EP	12 51 51.6

Date and Station	Phase (GCT)
	h m s
GCA EP	12 51 53.1
E	52 19.0
HHM EP	12 52 00.0
BUT E(P)	12 52 00.0
BOZ EP	12 52 03.0
FGU EP	12 52 05.5
ALQ EP	12 52 09.0
SJG EP'	12 57 59.0
JAN 19	
H-12 40 15.1	
14.8S 178.7W	
h ABOUT 33KM	
GUA IP	12 48 34.0
ES	55 10.0
SLD IP	12 51 55.3
TUC EP	12 52 23.5
BMO EP	12 52 30.3
GCA EP	12 52 32.4
E	52 55.2
COL EP	12 52 37.4
NEW EP	12 52 39.0
ALQ E(P)	12 52 45.0
E	52 52.0
FGU EP	12 52 46.3
BUT E(P)	12 52 48.0
HHM EP	12 52 50.0
BOZ EP	12 52 50.5
BRW IP	12 52 59.7
BHP EP	12 54 05.0
IS	13 05 49.0
SJG EPP	13 00 14.0
ES	07 42.0
ESS	15 56.0
JAN 19	
BRW EP	12 47 26.7
COL EP	12 47 28.0
FGU EP	12 50 10.2
BMO E(P)	12 50 37.8
BOZ E(P)	12 50 40.0
E	50 46.5
JAN 19	
BRW IP	12 54 31.8
JAN 19	
ALQ E(P)	13 08 36.0
E	09 11.0

Date and Station	Phase (GCT)
	h m s
JAN 19	
BOZ E(P)	13 16 13.0
JAN 19	
SLD E(P)	13 19 33.0
JAN 19	
H-14 38 44.3	
55.3N 163.1E	
h ABOUT 33KM	
ADK I(P)	14 42 41.7
IS	43 31.2
COL EP	14 44 12.0
NEW EP	14 47 14.0
BMO EP	14 47 32.9
SLD E(P)	14 48 01.0
EUR IP	14 48 07.1
FGU E(P)	14 48 22.0
ELG	49 22.0
HHM E(P)	14 48 25.3
BCN E(P)	14 48 27.5
E	49 32.5
BOZ E(P)	14 48 48.7
EPP	51 06.5
TUC E(P)	14 49 02.5
E	50 01.1
ALQ EP	14 49 06.5
EL	50 17.4
JAN 19	
H-14 41 34.5	
52.4N 169.6W	
h ABOUT 34KM	
ADK IP	14 42 41.7
IS	43 31.2
COL EP D	14 45 28.0
I	48 45.4
EL	50 53.0
BRW E(P)	14 46 05.3
NEW EP	14 48 10.0
E	48 20.0
BMO EP	14 48 23.9
JAN 19	
COL EP	14 43 56.0
JAN 19	
BMO EP	14 50 55.7
HHM EP	14 50 56.8
JAN 19	
NEW EP	14 54 33.0
BMO EP	14 54 38.5

Date and Station	Phase (GCT)
	h m s
JAN 19	
H-16 45 00.1	
37.1N 116.1W	
h ABOUT 0KM	
BCN IPNC	16 45 29.0
EUR IP C	16 45 40.0
GCA IP	16 45 58.7
SLD EP	16 46 03.7
I	46 09.5
SLC IP	16 46 17.7
I	46 42.3
ILG	47 41.3
UKI E(P)	16 46 35.0
TUC IP	16 46 38.2
EL	48 43.0
FGU IP C	16 46 39.7
BMO IPN	16 46 57.3
ALQ IP	16 47 00.6
ELG	49 18.0
BOZ IP	16 47 18.0
I	47 26.5
BUT EP	16 47 19.5
NEW IP	16 47 44.6
HHM EP	16 47 46.8
ELG	51 05.5
COL IP	16 51 42.8
IPCP	54 22.2
ADK IP	16 53 12.5
SJG EP	16 53 39.0
JAN 19	
BCN E(P)	17 03 57.0
JAN 19	
BCN EPN	17 09 22.5
EL	09 45.0
EUR IP	17 09 34.9
SLC E(P)	17 10 12.3
I	10 32.8
BMO EPN	17 10 53.3
ALQ E(P)	17 11 07.5
JAN 19	
ADK IP	17 25 34.6
IS	26 23.1
COL EP	17 28 11.0
BMO E(P)	17 32 37.5
ALQ E(P)	17 32 51.4

Date and Station	Phase (GCT)
	h m s
JAN 19	
COL EP	17 32 40.5
BMO EP	17 33 46.2
JAN 19	
NEW IP	18 02 41.0
IS	03 19.0
JAN 19	
NEW IP	18 06 00.1
JAN 19	
SJG IP	18 39 11.5
IS	39 22.6
JAN 19	
SJG IP	18 50 38.3
IS	50 49.5
JAN 19	
SJG EP	18 58 06.0
ES	58 17.5
JAN 19	
H-19 38 56.7	
62.5N 151.8W	
h ABOUT 82KM	
PMR IP	19 39 22.3
COL IP	19 39 42.6
JAN 19	
H-19 43 24.4	
17.0N 85.7W	
h ABOUT 34KM	
SJG E(P)	19 47 43.0
E	47 48.8
ALQ EP	19 48 53.5
TUC EP	19 49 08.5
BCN EP	19 49 51.1
EUR IP	19 50 12.2
BOZ E(P)	19 50 17.5
BMO EP	19 50 42.7
HHM E(P)	19 50 49.5
COL E(P)	19 52 55.0
JAN 19	
H-19 46 31.3	
48.7N 155.1E	
h ABOUT 55KM	
COL IP	19 53 10.2
BMO E(P)	19 56 13.2
EUR EP	19 56 42.0
JAN 20	
BMO EPN	00 09 09.8
ES	09 32.2

Date and Station	Phase	(GCT)
		h m s
JAN 20		
SJG	E(P)	00 13 54.5
	EL	14 22.5
JAN 20		
H-00 19 13.8		
3.7S 152.1E		
h ABOUT 18KM		
COL	EP	00 31 29.0
BRW	EP	00 31 33.6
JAN 20		
H-00 22 53.8		
3.9S 152.0E		
h ABOUT 26KM		
COL	IP	00 35 08.2
BRW	E(P)	00 35 13.6
JAN 20		
H-00 59 41.9		
15.2S 73.5W		
h ABOUT 105KM		
EUR	EP	01 10 28.2
BMO	EP	01 10 55.0
COL	EP	01 13 03.0
JAN 20		
H-01 31 09.1		
11.5S 165.9E		
h ABOUT 24KM		
COL	EP	01 43 37.0
EUR	EP	01 43 59.4
JAN 20		
H-01 57 21.6		
48.1N 103.0E		
h ABOUT 22KM		
BRW	IP	02 06 02.3
	IPCP	07 27.8
GUA	EP	02 06 07.0
	ES	13 10.0
COL	EP C	02 06 49.9
	I	06 52.2
	ES	14 17.0
	EL	18 38.0
PMR	IP	02 07 02.9
SIT	E(P)	02 08 00.8
NEW	EP	02 09 18.0
HHM	IP C	02 09 23.6
KIP	EP	02 09 30.0
	ES	19 38.0
HON	IP C	02 09 33.4
	IS	19 39.0
BMO	EP	02 09 35.2
BUT	EP	02 09 37.7
BOZ	IP D	02 09 41.0
	EPP	12 46.0
	ES	20 00.0
UKI	E(P)	02 09 54.0
EUR	EP C	02 10 02.6
	I	10 04.8
	EPP	13 28.4
	ES	20 33.7
SLD	EP C	02 10 04.7
	I	10 06.3
	ES	20 39.0
FGU	EP	02 10 05.1
BCN	EP	02 10 22.1
	E	10 30.1
	EPP	13 50.6
ALQ	EP C	02 10 36.5
	E	10 50.0
	EPP	14 10.0
TUC	EP	02 10 41.0
	EPP	14 33.0
SJG	EP'	02 15 44.0
	EP'	16 23.5
	IPP	16 53.0
	EPS	26 28.0
	EPPS	27 34.0
	ESS	32 51.0
	ESSS	37 03.0
	EG	43 42.0
JAN 20		
H-03 27 12.0		
48.1N 103.1E		
h ABOUT 20KM		
BRW	EP	03 35 53.5
	I	36 26.0
NEW	EP	03 39 10.0
HHM	E(P)	03 39 15.1
BMO	IP	03 39 26.8
BUT	E(P)	03 39 28.7
BOZ	EP	03 39 31.8
EUR	EP	03 39 34.0
	I	41 26.2
SLD	EP C	03 39 56.0
	I	41 38.3
ALQ	EP	03 40 28.0
	E	42 00.5
JAN 20		
H-03 28 45.5		
47.9N 102.9E		
h ABOUT 33KM		
COL	IP	03 38 13.9
NEW	IP	03 40 42.7
HHM	E(P)	03 40 46.1
BMO	EP	03 40 58.8
BUT	E(P)	03 41 00.5
BOZ	EP	03 41 04.3
EUR	IP	03 41 26.2
JAN 20		
BMO	E(P)	05 04 33.4
COL	EP	05 04 47.0
JAN 20		
H-05 16 38.1		
32.4N 69.9E		
h ABOUT 46KM		
COL	EP	05 28 38.0
JAN 20		
H-06 23 13.6		
48.0N 103.1E		
h ABOUT 15KM		
BRW	EP	06 31 55.5
COL	EP	06 32 44.0
NEW	IP	06 35 12.9
HHM	E(P)	06 35 17.8
BMO	EP	06 35 29.2
EUR	IP	06 35 56.8
SLD	IP	06 35 59.1
ALQ	EP	06 36 29.0
JAN 20		
COL	EP	06 30 42.0
JAN 20		
COL	EP	07 09 24.0
JAN 20		
BMO	EP	12 33 15.2
JAN 20		
H-13 03 46.3		
1.3N 85.2W		
h ABOUT 33KM		
BHP	IP	13 06 10.5
	IS	08 05.8
SJG	E(P)	13 09 11.0
	ES	13 40.0
ALQ	EP	13 11 11.0
BOZ	EP	13 12 47.5
BMO	EP	13 12 56.5
HHM	E(P)	13 13 05.6
JAN 20		
ALQ	E(P)	13 10 31.2
BOZ	E(P)	13 12 20.5
JAN 20		
PMR	EP	14 20 59.0
	I	21 00.2
	IS	21 21.2
JAN 20		
BMO	EP	16 27 26.1
	E	27 52.3
JAN 20		
H-17 40 04.1		
37.1N 116.0W		
h ABOUT 0KM		
BCN	IP C	17 40 30.5
EUR	IP	17 40 43.5
GCA	IP	17 41 00.0
	ILG	41 55.5
SLD	IP D	17 41 09.4
	I	41 14.2
	ILG	42 15.7
SLC	IP	17 41 20.9
	ILG	42 47.3
TUC	IP	17 41 39.6
	EL	43 58.0
FGU	IP C	17 41 42.1
BMO	EPN	17 42 01.1
ALQ	EP D	17 42 02.2
	E	42 34.5
BOZ	EP	17 42 21.0
BUT	EP	17 42 21.5
NEW	EP	17 42 49.0
HHM	EP	17 42 50.1
RCD	E(P)	17 42 54.0
	E	46 30.0
COL	EP	17 46 46.0
BRW	EP	17 47 41.0
SJG	EP	17 48 41.0
JAN 20		
NEW	EP	17 41 46.0
BMO	EP	17 41 47.8
JAN 20		
BOZ	EPN	19 06 05.5
	EL	06 16.5
JAN 20		
BCN	EP	19 34 53.2
BOZ	E(P)	19 36 45.7
JAN 20		
BMO	E(P)	19 39 41.1

Date and Station	Phase (GCT)
	h m s
ALQ EP	19 40 42.8
JAN 20	
COL EP	20 07 03.0
EUR EP	20 08 18.9
JAN 20	
COL EP	21 00 42.0
JAN 20	
H-21 19 35.1	
48.1N 103.1E	
h ABOUT 9KM	
COL EP	21 29 05.0
BMO EP	21 31 50.6
BOZ E(P)	21 31 55.3
EUR EP	21 32 18.4
ALQ EP	21 32 52.5
JAN 20	
PMR IP	21 20 36.5
ES	20 43.9
JAN 21	
H-00 18 16.0	
44.7N 109.8W	
h ABOUT 33KM	
BZM EP	00 18 37.0
BOZ IPNC	00 18 41.5
IS	19 00.0
BUT E(P)	00 18 55.3
FGU E(P)	00 19 09.0
E	19 14.3
E	19 26.0
ELG	20 06.0
BMO EPN	00 19 35.1
HHM E(P)	00 19 35.6
E	20 35.8
JAN 21	
H-00 41 28.6	
48.1N 103.1E	
h ABOUT 8KM	
COL EP	00 51 00.0
NEW EP	00 53 28.0
BMO EP	00 53 44.7
BOZ EP	00 53 49.7
EUR EP	00 54 12.4
ALQ EP	00 54 46.2
JAN 21	
SLD IP D	01 20 10.0
IS	20 16.3

Date and Station	Phase (GCT)
	h m s
JAN 21	
NEW EP	01 38 56.0
JAN 21	
H-01 46 19.7	
37.4N 116.4W	
h ABOUT 33KM	
LVN IP	01 46 46.6
IS	47 06.7
BCN EPN	01 46 50.7
ES	47 14.7
EUR IP	01 46 54.0
GCA EPG	01 47 33.0
ELG	48 16.0
JAN 21	
H-02 54 00.4	
49.9S 114.9W	
h ABOUT 33KM	
KIP EP	03 06 06.0
SJG EP	03 06 07.5
ES	16 16.0
ESS	21 32.0
TUC EP	03 06 17.0
ES	16 37.0
HON E(P)	03 06 23.0
ES	16 35.0
ALQ EP	03 06 31.4
ES	17 08.0
BCN EP	03 06 36.7
CSC EP	03 06 49.1
ES	17 50.0
EUR IP	03 06 52.2
BMO EP	03 07 17.8
BOZ E(P)	03 07 22.0
COL EPP	03 13 57.0
BRW EP'	03 13 09.0
JAN 21	
BHP EP C	03 13 48.0
IS	25 21.0
JAN 21	
H-04 27 51.0	
27.1N 127.2E	
h ABOUT 60KM	
COL EP	04 38 17.6
NEW IP	04 40 24.2
HHM E(P)	04 40 32.7
BMO EP	04 40 33.8
E	41 01.8
BOZ E(P)	04 40 46.5

Date and Station	Phase (GCT)
	h m s
JAN 21	
BMO E(P)	04 58 25.2
COL EP	04 58 46.0
JAN 21	
COL EP	05 19 22.8
BMO E(P)	05 22 37.3
JAN 21	
BHP EP	08 19 54.4
IS	20 02.1
JAN 21	
H-08 15 33.2	
17.9N 145.8E	
h ABOUT 103KM	
GUA EP	08 16 40.2
ES	17 29.5
BRW IP D	08 25 50.1
I▷P	26 16.3
COL EP	08 25 56.3
NEW IP	08 27 40.6
E▷P	28 08.0
BMO EP	08 27 45.1
E▷P	28 12.8
HHM E(P)	08 27 50.5
E▷P	28 18.5
EUR EP	08 27 58.5
BOZ E(P)	08 28 02.7
E▷P	28 30.7
TUC EP	08 28 30.0
JAN 21	
COL EP	08 35 56.0
BMO EP	08 39 07.0
JAN 21	
EUR EP	10 00 50.0
JAN 21	
BMO E(P)	11 22 53.5
JAN 21	
H-12 40 30.2	
34.3N 140.3E	
h ABOUT 59KM	
COL EP	12 49 34.0
BMO EP	12 52 04.1
JAN 21	
H-13 31 29.9	
3.3N 97.3E	
h ABOUT 90KM	
ALQ EP'	13 50 42.0
JAN 21	
H-13 48 12.9	
31.1S 178.1W	
h ABOUT 60KM	

Date and Station	Phase (GCT)
	h m s
TUC EP	14 01 06.0
E▷P	01 23.3
EUR EP	14 01 10.4
I▷P	01 27.2
BMO EP	14 01 22.6
E▷P	01 39.3
ALQ EP	14 01 25.8
E▷P	01 42.0
BOZ E(P)	14 01 40.0
JAN 21	
ALQ EP	13 54 10.2
JAN 21	
HHM E(P)	14 18 19.7
JAN 21	
H-15 16 37.7	
16.4S 178.7W	
h ABOUT 500KM	
BMO EP	15 28 08.8
COL EP	15 28 17.3
JAN 21	
SJG EP	15 18 08.5
IS	18 34.0
JAN 21	
H-15 26 33.3	
29.7N 139.5E	
h ABOUT 444KM	
COL EP	15 25 32.7
BMO EP	15 37 46.9
JAN 21	
TUC E(P)	15 29 41.6
JAN 21	
H-15 30 36.0	
1.6N 84.9W	
h ABOUT 33KM	
ALQ E(P)	15 38 00.5
BOZ E(P)	15 39 28.0
BMO E(P)	15 39 41.1
JAN 21	
COL EP	16 48 08.5
E(S)	49 20.7
JAN 21	
BMO E(P)	17 44 57.2
JAN 21	
MID IP	17 48 04.0
ES	48 16.8
JAN 21	
BMO EP	18 08 50.7
JAN 21	
SJG EP	21 00 38.5
ES	01 06.5

Date and Station	Phase	(GCT) h m s
JAN 21		
H-21 19 58.9		
37.3N 114.1W		
h ABOUT 36KM		
BCN	IPND	21 20 23.2
	ES	20 43.2
LVN	IP	21 20 23.7
	IS	20 42.7
GCA	EP	21 20 32.5
	IS	20 59.4
EUR	IP	21 20 38.6
TUC	EP	21 21 22.5
ALQ	EP	21 21 35.5
	E	21 59.0
	ELG	23 26.5
BMO	EP	21 21 54.3
JAN 21		
BCN	EPN	21 28 32.2
	ES	28 42.7
GCA	EP	21 28 32.7
	ES	29 00.0
EUR	EP	21 28 38.0
	IL	29 10.5
JAN 21		
EUR	IP D	21 32 57.8
	IS	33 22.5
JAN 21		
COL	EP	22 11 42.0
JAN 21		
ALQ	E(P)	22 48 18.6
	E(L)	48 43.0
JAN 21		
H-23 09 50.5		
5.0S 144.7E		
h ABOUT 74KM		
COL	IP	23 22 18.8
BMO	EP	23 23 25.9
JAN 21		
EUR	EP	23 10 01.1
	IL	10 33.5
JAN 22		
BMO	IPG	02 38 59.0
	ES	39 12.1
JAN 22		
EUR	EP	04 02 36.3
	IL	03 09.1
JAN 22		
BOZ	E(P)	06 38 56.5
FGU	F(P)	06 38 57.9
	I	38 58.5
	ELG	39 32.3
JAN 22		
SJG	EP	07 12 05.0
	IS	12 38.0
JAN 22		
H-08 18 14.4		
6.8N 72.9W		
h ABOUT 159KM		
BHP	EP C	08 19 54.4
	IS	21 02.1
SJG	EP	08 21 14.5
	IS	23 29.0
ALQ	EP	08 25 49.0
TUC	EP	08 26 03.0
RCD	EP	08 26 19.5
BOZ	EP	08 27 02.5
	E	27 12.5
BMO	EP	08 27 22.4
NEW	EP	08 27 36.0
EUR	EP	08 26 57.5
	EpP	27 34.6
JAN 22		
BMO	EP	08 59 05.3
NEW	EP	08 59 13.0
JAN 22		
BOZ	EP	09 18 53.5
	EL	19 16.5
JAN 22		
H-09 21 48.8		
54.3N 169.1E		
h ABOUT 30KM		
BRW	EP	09 26 49.0
COL	IP	09 26 59.9
NEW	EP	09 30 00.0
BMO	EP	09 30 15.5
BOZ	EP	09 30 35.5
EUR	IP	09 30 49.2
RCD	EP	09 31 17.0
TUC	EP	09 31 47.0
ALQ	EP	09 31 50.6
JAN 22		
FGU	E(P)	09 56 01.3
	I	56 02.2
	ILG	56 30.5
JAN 22		
H-10 01 01.7		
39.6N 111.9W		
h ABOUT 33KM		
SLC	EP	10 01 21.5
	ES	01 39.7
FGU	IP	10 01 41.0
	I	01 42.5
	IS	02 11.3
GCA	EP	10 01 44.0
	ELG	02 23.0
EUR	EP	10 01 54.5
	ELG	02 39.0
ALQ	EP	10 02 36.0
	ELG	04 16.0
JAN 22		
MID	EP	10 09 32.9
	ES	09 41.3
COL	EP	10 09 52.0
JAN 22		
H-10 29 59.7		
53.7N 165.2W		
h ABOUT 28KM		
ADK	IP	10 31 45.3
	IS	33 12.2
COL	EP	10 33 20.0
	EL	37 46.0
BRW	IP C	10 34 13.0
NEW	EP	10 36 10.0
BMO	EP	10 36 23.9
HHM	E(P)	10 36 26.2
EUR	IP	10 37 00.0
RCD	EP	10 37 38.3
TUC	EP	10 38 04.5
ALQ	EP C	10 38 11.6
	EPCP	39 53.8
JAN 22		
H-11 50 49.9		
19.1S 69.1W		
h ABOUT 130KM		
ALQ	EP	12 01 14.1
BOZ	E(P)	12 02 19.5
BMO	IP	12 02 32.7
	EpP	03 03.5
JAN 22		
COL	EP	12 04 14.0
JAN 22		
H-12 01 46.4		
48.1N 103.1E		
h ABOUT 15KM		
COL	EP	12 11 16.6
NEW	IP	12 13 45.4
HHM	EP	12 13 49.3
BMO	IP	12 14 01.6
BOZ	EP	12 14 06.5
RCD	EP	12 14 24.2
EUR	EP	12 14 29.0
ALQ	EP	12 15 02.8
	E	15 06.0
JAN 22		
H-12 09 52.6		
8.7N 93.6E		
h ABOUT 39KM		
BRW	EP	12 22 40.5
COL	EP	12 23 07.0
TUC	EP'	12 29 04.0
JAN 22		
H-12 16 01.4		
48.1N 102.9E		
h ABOUT 25KM		
COL	EP	12 25 30.0
NEW	IP	12 27 59.0
HHM	E(P)	12 28 02.3
BMO	EP	12 28 15.5
BOZ	EP	12 28 21.2
RCD	EP	12 28 38.0
ALQ	EP	12 29 17.2
JAN 22		
H-12 31 58.3		
11.1S 165.4E		
h ABOUT 23KM		
COL	EP	12 44 23.5
	EpP	44 32.0
EUR	EP	12 44 50.5
JAN 22		
ALQ	EP	12 32 29.8
JAN 22		
H-13 42 15.3		
5.6S 153.0E		
h ABOUT 48KM		
COL	IP	13 54 33.3
JAN 22		
H-14 21 44.4		
8.0S 147.8E		
h ABOUT 85KM		
BMO	E(P)	14 35 17.4
EUR	EP	14 35 22.4
SJG	EP'	14 41 13.5

Date and Station	Phase (GCT)
	h m s
JAN 22	
EUR EP	14 37 10.9
E	37 21.3
JAN 22	
H-15 11 06.3	
12.6N 143.9E	
h ABOUT 33KM	
GUA IP	15 11 28.0
IS	11 40.0
NEW EP	15 23 48.0
BMO EP	15 23 52.0
EUR E(P)	15 24 04.5
JAN 22	
MID EP	16 22 03.0
ES	22 30.3
JAN 22	
H-17 29 22.0	
20.1S 178.2W	
h ABOUT 608KM	
EUR E(P)	17 40 45.5
COL EP	17 41 08.0
JAN 22	
SJG EP	17 43 13.5
IS	43 40.5
JAN 22	
H-19 22 00.7	
.9S 16.0W	
h ABOUT 33KM	
BMO EP	19 35 40.4
JAN 22	
BHP EP	19 24 27.6
ES	25 01.0
JAN 22	
BOZ EPN	19 36 00.0
EL	39 19.5
JAN 22	
ALQ EP	20 25 37.0
E(L)	27 16.4
JAN 22	
COL IP	20 34 18.6
JAN 22	
MID EP	21 32 54.2
E(S)	33 12.1
JAN 22	
H-21 34 35.1	
16.5S 173.8W	
h ABOUT 33KM	
TUC E(P)	21 46 29.0
EUR EP	21 46 30.1
BMO EP	21 46 40.9
ALQ E(P)	21 46 52.5
COL EP	21 47 01.0
JAN 22	
TUC EP	21 48 15.1
E(S)	48 51.0
BCN (PN)	21 49 05.3
E(S)	50 02.3
EUR E(P)	21 49 16.0
JAN 22	
EUR EP	22 24 31.7
EL	25 22.3
JAN 22	
H-22 35 50.6	
18.0S 178.5W	
h ABOUT 600KM	
BCN EP	22 47 04.3
EUR IP	22 47 08.6
TUC EP	22 47 10.5
BMO EP	22 47 18.5
NEW IP	22 47 27.5
COL IP	22 47 27.6
ALQ EP	22 47 31.6
BOZ E(P)	22 47 36.5
JAN 23	
BOZ EPN	00 48 30.3
EL	48 45.5
JAN 23	
H-03 09 07.9	
13.1S 168.4E	
h ABOUT 25KM	
COL IP	03 21 38.8
EUR EP	03 21 57.0
BMO E(P)	03 21 58.7
JAN 23	
BMO EP	03 15 13.6
JAN 23	
H-03 39 39.1	
10.6S 161.6E	
h ABOUT 50KM	
COL IP	03 52 04.8
EUR IP	03 52 39.8
BMO EP	03 52 40.3
JAN 23	
BHP IP	06 57 58.9
IS	58 27.5
JAN 23	
EUR EP	07 09 00.6
JAN 23	
H-09 19 34.0	
.5N 122.2E	
h ABOUT 119KM	
COL EP	09 32 20.0
EUR EP'C	09 38 00.4
BOZ EP'	09 38 02.7
TUC EP'	09 38 13.7
ALQ IP'	09 38 18.0
E	38 45.0
BMO EPP	09 38 43.5
JAN 23	
COL EP	10 22 41.0
JAN 23	
H-11 09 49.9	
27.9S 176.7W	
h ABOUT 45KM	
BCN EP	11 22 28.4
E▸P	22 40.4
TUC EP	11 22 31.0
E▸P	22 45.0
EUR EP	11 22 35.5
I▸P	22 49.2
BMO EP	11 22 47.1
E▸P	23 01.2
ALQ EP	11 22 52.0
E▸P	23 06.0
BOZ EP	11 23 04.5
E▸P	23 18.5
COL EP	11 23 08.0
JAN 23	
H-11 44 02.3	
14.9S 175.7W	
h ABOUT 312KM	
EUR EP	11 55 25.8
TUC EP	11 55 28.0
BMO EP	11 55 36.3
COL IP	11 55 49.5
ALQ EP	11 55 50.5
JAN 23	
SJG IP C	14 24 21.0
IS	24 42.0
JAN 23	
BMO EP	14 35 00.9
JAN 23	
COL EP	15 36 55.0
JAN 23	
BMO+EP	17 39 3Hs4
JAN 23	
H-18 34 09.7	
7.2S 144.7E	
h ABOUT 44KM	
COL EP	18 46 50.0
BMO EP	18 47 54.3
JAN 23	
BMO E(P)	18 42 17.2
JAN 23	
ALQ E(P)	20 02 41.6
E(L)	02 15.4
JAN 23	
H-20 25 38.0	
19.9N 109.3W	
h ABOUT 52KM	
TUC IP	20 28 34.2
EL	31 43.0
ALQ EP D	20 29 11.5
EL	32 12.0
BCN IP D	20 29 31.4
ES	32 53.5
EL	36 02.0
LVN IP	20 29 35.7
EL	36 17.7
GCA EP	20 29 38.0
SLD EP D	20 30 08.2
EL	38 23.0
EUR IP	20 30 12.8
SLC IP	20 30 17.9
I	30 24.1
FGU IP D	20 30 18.3
UKI E(P)	20 30 37.0
RCD EP	20 30 57.0
ES	35 10.0
ESCP	38 16.0
BOZ IP	20 31 05.0
EL	37 44.0
BMO EP	20 31 05.1
E	31 18.1
BUT EP	20 31 09.2
CSC E(P)	20 31 26.0
ES	36 29.0
HHM EP	20 31 31.5
NEW IP	20 31 35.0
I	31 49.0
BHP IP C	20 31 49.2
IS	37 00.0
IL	41 00.0
WSC EP	20 32 19.3

Date and Station	Phase	(GCT) h m s
SJG	E(P)	20 33 15.0
	EPP	34 54.0
	ES	39 26.0
HON	E(P)	20 34 01.0
	EPP	36 05.0
COL	EP	20 34 41.0
	ES	42 08.0
JAN 23		
BMO	E(P)	20 37 19.3
JAN 23		
H-20 47 56.5		
1.6S 15.6W		
h ABOUT 33KM		
BMO	EP	21 01 38.1
	E	02 09.8
JAN 23		
COL	EP	21 17 42.0
JAN 23		
H-21 24 12.9		
19.9N 109.3W		
h ABOUT 33KM		
TUC	EP	21 27 11.5
BCN	EP	21 28 09.5
EUR	IP	21 28 50.5
BOZ	EP	21 29 42.3
COL	EP	21 33 17.0
JAN 23		
H-21 45 33.6		
55.2N 163.2E		
h ABOUT 33KM		
COL	IP	21 51 00.8
BMO	E(P)	21 54 21.6
EUR	EP	21 54 56.5
JAN 23		
H-21 46 49.8		
19.9N 109.2W		
h ABOUT 33KM		
TUC	E(P)	21 49 47.0
EUR	E(P)	21 51 25.5
BMO	E(P)	21 52 21.3
JAN 23		
H-22 29 10.8		
17.9N 145.6E		
h ABOUT 172KM		
GUA	E(P)	22 30 17.4
	ES	31 04.5
NEW	EP	22 41 11.0
BMO	EP	22 41 15.7
EUR	EP D	22 41 29.0
BOZ	E(P)	22 41 32.5
JAN 23		
ALQ	EP	22 29 17.2
	E	29 56.0
JAN 23		
BMO	IP	22 57 13.8
	IS	57 17.4
JAN 24		
COL	EP	00 04 20.0
	E	05 00.0
JAN 24		
H-00 08 31.0		
33.2N 118.0W		
h ABOUT 4KM		
BCN	E(P)	00 09 30.0
	ELG	10 31.5
SLD	EP	00 09 43.2
	EL	10 43.0
EUR	IP	00 10 08.8
	ILG	11 56.0
JAN 24		
H-00 26 49.1		
18.9S 67.9W		
h ABOUT 209KM		
BMO	E(P)	00 38 25.7
JAN 24		
TUC	E(P)	01 03 30.0
EUR	EP	01 05 10.0
BMO	E(P)	01 05 55.8
JAN 24		
H-01 44 12.4		
11.3S 165.2E		
h ABOUT 23KM		
COL	EP	01 56 40.0
EUR	E(P)	01 57 06.0
JAN 24		
H-03 05 39.4		
41.5N 142.0E		
h ABOUT 69KM		
GUA	E(P)	03 11 34.0
	ES	16 04.0
BRW	IP	03 13 25.5
COL	IP	03 13 50.4
	ES	20 20.0
SIT	IpP	03 15 08.0
NEW	IP	03 16 24.3
	EpP	16 43.0
HHM	EP	03 16 32.7
	EpP	16 51.5
BMO	EP	03 16 36.8
	EpP	16 55.7
BUT	EP	03 16 50.0
	EpP	17 09.4
SLD	IP C	03 16 52.3
	IpP	17 10.9
BOZ	IP	03 16 52.7
	EpP	17 12.5
EUR	EP D	03 17 02.2
	IpP	17 19.8
SLC	EP	03 17 11.7
	EpP	17 29.7
BCN	EP	03 17 20.0
	E(pP)	17 37.0
LVN	EP	03 17 20.0
RCD	E	03 17 35.0
	EpP	17 44.0
TUC	EP	03 17 46.5
	EpP	18 05.0
ALQ	EP	03 17 51.2
	EpP	18 11.0
	EPP	21 28.0
	ES	28 00.0
JAN 24		
H-03 29 20.9		
75.1N 8.5E		
h ABOUT 33KM		
HHM	E(P)	03 38 21.4
NEW	EP	03 38 33.0
BOZ	E(P)	03 38 44.0
BUT	E(P)	03 38 44.0
BMO	EP	03 38 51.0
EUR	IP	03 39 32.6
TUC	E(P)	03 40 12.2
JAN 24		
H-04 49 02.4		
44.3N 142.0E		
h ABOUT 231KM		
COL	EP	04 56 38.0
JAN 24		
BMO	EP	05 37 29.2
JAN 24		
BCN	(PN)	06 25 39.4
	ES	26 13.4
JAN 24		
BMO	E(P)	06 49 15.4
JAN 24		
EUR	IP	09 27 44.8
JAN 24		
H-09 29 11.7		
.7S 21.0W		
h ABOUT 33KM		
BHP	E(P)	09 39 21.2
	IS	47 51.8
WSC	E(P)	09 39 48.5
	E	39 58.5
CSC	E(P)	09 39 55.5
	ES	49 08.0
RCD	E(P)	09 41 44.0
ALQ	EP	09 41 54.4
	E	42 12.0
	ES	52 47.0
TUC	E(P)	09 42 11.0
	ESKS	52 10.0
NEW	E(P)	09 42 23.0
	E	42 44.0
BOZ	EP	09 42 28.5
BMO	EP	09 42 32.3
HHM	E(P)	09 42 35.0
EUR	E(P)	09 42 37.9
	EPP	46 18.5
HON	E	09 49 32.0
	IPP	51 24.0
GUA	E(P')	09 49 24.0
	ESKS	56 08.0
JAN 24		
UKI	E(P)	11 03 10.0
JAN 24		
COL	EP	13 48 22.2
ADK	E(P)	13 50 26.5
JAN 24		
COL	EP	13 53 55.0
NEW	EP	13 56 45.0
BMO	E(P)	13 56 59.7
BUT	E(P)	13 57 02.0
BOZ	EP	13 57 22.0
JAN 24		
BCN	EPN	14 30 43.9
	ES	31 62.9
GCA	EP	14 30 55.3
	IS	31 20.8
JAN 24		
H-14 45 12.8		
30.2N 104.2E		
h ABOUT 10KM		
COL	IP	14 56 27.0
NEW	EP	14 58 32.0
HHM	EP	14 58 37.4
BMO	E(P)	14 58 46.3

Date and Station	Phase (GCT)
	h m s
JAN 24	
H-15 19 59.5	
5.6S 153.4E	
h ABOUT 50KM	
COL EP	15 32 17.0
JAN 24	
H-15 21 53.6	
.2S 20.4W	
h ABOUT 33KM	
BMO IP	15 35 14.7
JAN 24	
GUA EP	15 26 30.0
ES	29 16.0
JAN 24	
BOZ EPN	17 42 36.5
EL	42 48.0
HHM E(P)	17 43 42.4
JAN 24	
NEW EP	19 20 53.0
JAN 24	
COL EP	20 29 09.0
E	29 55.0
JAN 24	
ALQ E(P)	20 52 57.5
E(L)	53 36.6
JAN 24	
ALQ E(P)	20 56 11.6
E(L)	56 46.0
JAN 24	
BOZ EPN	22 14 20.5
EL	14 30.5
JAN 24	
BUT EP	22 48 08.4
BOZ EPN	22 48 23.0
EL	48 33.5
JAN 24	
H-22 51 05.3	
11.1S 165.6E	
h ABOUT 30KM	
COL EP	23 03 30.0
BMO E(P)	23 03 57.3
JAN 25	
GCA EP	00 13 23.8
IS	13 49.5
JAN 25	
H-01 50 19.8	
36.7N 71.6E	
h ABOUT 283KM	
BRW IP D	02 00 43.1
EpP	01 48.0
EsP	02 17.5
COL IP	02 01 26.9
IS	10 36.1
PMR IP	02 01 40.5
IpP	02 48.9
SIT E(P)	02 02 20.0
EpP	03 27.0
HHM EP	02 03 12.0
EpP	04 19.5
NEW IP	02 03 12.3
BUT E(P)	02 03 22.4
EpP	04 30.4
BOZ EP C	02 03 25.5
EpP	04 34.0
BMO EP	02 03 26.4
EUR EP	02 03 54.1
EPP	08 04.5
IPKKP	19 39.6
ALQ EP	02 04 15.4
EpP	07 20.0
EsP	17 42.2
EPKKP	19 38.9
TUC EPKKP	02 19 28.0
JAN 25	
GUA EP	02 01 24.0
ES	06 06.0
JAN 25	
COL EP	02 28 16.0
JAN 25	
TUC E(P)	02 37 17.5
JAN 25	
COL EP	02 49 55.0
JAN 25	
H-03 05 38.4	
14.6N 145.4E	
h ABOUT 102KM	
GUA IP	03 06 01.0
IS	06 16.0
COL EP	03 16 20.9
NEW IP	03 17 59.5
BMO EP	03 18 03.9
HHM E(P)	03 18 09.5
EUR EP	03 18 16.0
BOZ E(P)	03 18 21.3
JAN 25	
HHM E(P)	03 19 46.0
BOZ E(P)	03 19 48.5
BMO EP	03 19 57.9
JAN 25	
H-03 58 07.7	
66.3N 135.6W	
h ABOUT 33KM	
COL EP	03 59 25.4
BRW E(P)	04 00 21.2
NEW IP	04 02 44.6
HHM E(P)	04 02 51.5
BMO EP	04 03 17.7
BOZ E(P)	04 03 25.2
ALQ EP	04 05 06.2
TUC E(P)	04 05 17.5
JAN 25	
H-04 12 58.6	
20.2S 178.5W	
h ABOUT 573KM	
EUR EP	04 24 26.5
TUC EP	04 24 27.0
BMO EP	04 24 37.2
ALQ E(P)	04 24 48.0
COL IP	04 24 48.2
JAN 25	
COL EP	06 28 14.0
JAN 25	
COL EP	07 10 11.0
TUC E(P)	07 13 02.5
JAN 25	
H-07 31 36.9	
20.8S 178.4W	
h ABOUT 542KM	
EUR EP	07 43 09.0
TUC E(P)	07 43 09.8
BMO EP	07 43 19.6
COL IP	07 43 31.7
JAN 25	
H-08 18 11.9	
11.5S 165.6E	
h ABOUT 71KM	
COL EP	08 30 33.0
E	30 42.0
EUR EP	08 30 58.0
BMO E(P)	08 30 59.8
JAN 25	
SJG EP	09 16 21.1
IS	16 56.3
JAN 25	
H-10 44 27.1	
19.8S 178.1W	
h ABOUT 600KM	
EUR IP	10 55 51.1
TUC E(P)	10 55 51.5
BMO EP	10 56 01.0
NEW EP	10 56 11.0
COL IP	10 56 12.3
ALQ EP	10 56 12.6
BOZ E(P)	10 56 19.5
JAN 25	
BOZ E(P)	11 44 32.5
COL EP	11 44 34.0
JAN 25	
COL EP	12 30 47.0
EUR EP	12 34 19.6
JAN 25	
COL EP	12 36 58.0
E	37 05.0
JAN 25	
NEW EP	12 58 17.0
JAN 25	
TUC E(P)	13 05 11.9
JAN 25	
H-13 08 53.2	
51.9N 175.0E	
h ABOUT 33KM	
BRW EP	13 13 57.1
COL IP	13 13 57.5
NEW E(P)	13 16 55.0
BMO EP	13 16 59.2
BOZ EP	13 17 21.7
EUR IP	13 17 31.2
RCD EP	13 18 05.0
ALQ EP	13 18 36.2
JAN 25	
EUR IP	15 42 52.1
JAN 25	
COL EP	16 33 09.0
JAN 25	
BOZ EPN	18 03 47.0
EL	03 53.7
JAN 25	
H-18 15 47.1	
39.3N 118.0W	
h ABOUT 21KM	
EUR IP	18 16 14.6
SLD EPG	18 16 47.9
I	16 54.2
ILG	17 32.4

Date and Station	Phase (GCT) h m s
BMO EPN	18 17 10.8
BCN EPG	18 17 04.6
EL	17 58.6
GCA EP	18 17 27.5
ELG	18 42.5
JAN 25	
RUT EPN	18 56 09.4
BOZ EPN	18 56 21.7
EL	56 32.5
JAN 25	
SLD EP	19 30 46.5
IS	30 59.0
JAN 25	
COL EP	20 15 23.0
JAN 25	
H-21 10 26.3	
52.0N 174.6E	
h ABOUT 33KM	
COL EP	21 15 31.0
BOZ E(P)	21 18 55.5
EUR EP	21 19 05.0
JAN 25	
ALQ E(P)	21 16 53.2
E(L)	17 22.5
JAN 25	
BCN EPN	21 32 55.6
ES	33 24.1
JAN 25	
BCN (PN)	21 44 32.6
ES	44 45.6
JAN 25	
GCA EP	21 48 26.5
I	48 39.0
ELG	49 49.0
JAN 25	
ALQ E(P)	22 02 29.0
E	02 40.0
E(L)	03 16.8
JAN 25	
BCN (PN)	22 13 50.6
JAN 25	
BCN EPN	22 15 15.1
ES	15 30.6
JAN 25	
ALQ E(P)	22 29 53.8
E	30 01.5
E(L)	30 41.5
GCA E(P)	22 30 12.8
ELG	31 21.0
JAN 25	
BOZ EPN	22 56 11.6
EL	56 22.5

Date and Station	Phase (GCT) h m s
JAN 25	
BOZ EPN	22 59 10.0
JAN 25	
H-23 49 49.2	
44.8N 129.3W	
h ABOUT 33KM	
BMO EP	23 51 53.1
EUR E(P)	23 52 33.0
BOZ E(P)	23 52 49.0
BCN E(P)	23 53 18.1
TUC E(P)	23 54 09.5
ALQ E(P)	23 54 20.5
COL EP	23 54 49.0
JAN 25	
H-23 54 54.8	
48.1N 152.8E	
h ABOUT 132KM	
COL IP	24 01 38.0
BMO EP	24 04 39.5
EPP	05 11.9
JAN 26	
BCN EPN	00 02 06.3
ES	02 24.1
GCA EP	00 02 14.0
IS	02 36.0
EUR EP	00 02 31.3
EL	03 20.0
JAN 26	
ALQ E(P)	00 16 54.7
JAN 26	
H-02 11 20.6	
58.3S 25.5W	
h ABOUT 33KM	
TUC EP'	02 29 58.2
EUR IP'	02 30 14.0
SLD EP'	02 30 16.6
BOZ EP'	02 30 19.5
BMO EP'	02 30 22.5
HHM EP'	02 30 24.2
COL IP'	02 31 13.3
JAN 26	
TUC E(P)	02 24 51.0
EUR E(P)	02 25 07.1
BOZ E(P)	02 25 12.5
BMO EP	02 25 16.0
HHM EP	02 25 18.0

Date and Station	Phase (GCT) h m s
COL IP	02 26 06.5
JAN 26	
EUR EP	02 40 07.6
JAN 26	
SJG EP	02 42 58.0
IS	43 12.0
JAN 26	
SLD E(P)	03 06 49.0
IL	07 20.5
EUR EP	03 06 51.5
EL	07 24.6
JAN 26	
H-03 57 46.5	
6.6S 147.7E	
h ABOUT 72KM	
COL EP	04 10 15.0
JAN 26	
SJG EP	04 13 05.5
IS	13 31.7
JAN 26	
H-06 04 34.7	
21.4N 108.9W	
h ABOUT 41KM	
TUC EP	06 07 12.8
ES	09 16.0
ALQ EP D	06 07 49.5
E	07 58.0
EL	10 28.0
BCN EP	06 08 13.6
EL	13 34.1
GCA EP	06 08 17.8
SLD IP C	06 08 55.0
EUR EP C	06 08 56.7
EL	15 40.0
FQU EP	06 09 00.0
SLC EP	06 09 02.3
E	09 11.8
RCD EP	06 09 39.0
E	09 51.8
ES	14 00.0
BOZ IP	06 09 50.5
BMO EP	06 09 50.8
E	09 59.9
BUT EP	06 09 57.0
HHM EP	06 10 17.2
CSC E(P)	06 10 20.0
SJG EP	06 12 09.5
COL EP	06 13 29.0

Date and Station	Phase (GCT) h m s
JAN 26	
H-08 26 38.1	
44.6N 130.0W	
h ABOUT 33KM	
BMO EP	08 28 48.2
EUR IP	08 29 27.0
BCN E(P)	08 30 40.6
ALQ E(P)	08 31 09.0
COL E(P)	08 31 36.0
JAN 26	
H-09 15 14.0	
44.6N 129.7W	
h ABOUT 33KM	
BMO EP	09 17 20.2
EUR IP	09 17 59.9
COL E(P)	09 20 13.0
JAN 26	
H-10 05 03.2	
24.1N 121.7E	
h ABOUT 40KM	
COL EP	10 16 03.0
HHM EP	10 18 12.7
BMO IP	10 18 14.2
JAN 26	
COL EP	10 11 12.0
JAN 26	
H-11 02 49.2	
29.1N 68.4E	
h ABOUT 18KM	
COL EP	11 15 10.0
JAN 26	
COL EP	11 36 34.0
JAN 26	
BMO EP	15 45 20.0
JAN 26	
H-16 10 33.7	
14.9N 93.0W	
h ABOUT 57KM	
BHP IP D	16 13 53.4
IL	18 21.2
WSC E(P)	16 15 19.5
CSC EP	16 15 22.5
E	15 30.0
ES	19 26.0
ALQ EP D	16 15 39.6
E	15 43.4
ES	19 54.0
TUC EP	16 15 43.5
ES	20 00.0

Date and Station	Phase (GCT) h m s
SJG E(P)	16 15 59.9
I	16 18.5
IPCP	19 30.5
ES	20 46.0
FSCP	23 06.0
IPCS	23 25.5
GCA EP	16 16 19.0
BCN EP	16 16 29.1
EL	25 03.1
FGU IP D	16 16 36.5
IPP	16 50.3
RCD EP	16 16 42.5
ES	22 20.0
SLC EP	16 16 44.5
EPP	16 58.5
EUR IP D	16 16 55.8
I	17 24.0
E(S)	22 32.8
EL	27 30.0
SLD EP D	16 17 09.9
BOZ IP D	16 17 18.5
IPP	17 32.5
EPP	18 42.3
EPCP	19 54.5
EL	24 09.0
BUT EP	16 17 23.1
EPP	17 38.1
BMO IP	16 17 33.5
EPP	17 47.7
HHM IP	16 17 45.2
EPP	17 59.2
NEW IP	16 17 55.1
EPP	18 09.0
PMR EP	16 20 44.2
COL IP	16 20 49.7
BRW EP	16 21 26.4
JAN 26	
BUT EP	19 04 43.1
BOZ EPN	19 04 55.7
EL	05 07.5
JAN 26	
H-19 07 26.8	
52.9N 168.5W	
h ABOUT 33KM	
COL E(P)	19 11 10.0
EUR E(P)	19 14 48.5
JAN 26	
BMO E(P)	19 14 25.0
JAN 26	
H-20 02 24.0	
18.7S 69.6W	
h ABOUT 119KM	

Date and Station	Phase (GCT) h m s
EUR EP	20 13 39.2
BMO EP	20 14 04.3
JAN 26	
H-20 18 20.4	
18.9N 103.2W	
h ABOUT 71KM	
TUC E(P)	20 21 54.5
ES	24 46.0
ALQ E(P)	20 22 10.5
ES	25 30.0
BCN EP	20 22 54.2
EUR EP	20 23 25.4
I	23 46.5
SLD E(P)	20 23 41.0
RCD E(P)	20 23 51.0
BMO EP	20 24 09.6
SJG E(P)	20 25 09.5
E	25 19.0
COL EP	20 27 47.0
JAN 26	
JAN 26	
H-20 25 39.1	
11.2S 165.6E	
h ABOUT 38KM	
COL IP	20 38 03.2
EUR EP	20 38 28.0
BMO EP	20 38 30.5
JAN 26	
GCA E(P)	20 28 37.3
E	28 46.6
ELG	29 19.5
JAN 26	
BMO EP	22 59 34.8
JAN 26	
ALQ E(P)	23 02 03.5
TUC E(P)	23 02 22.2
BMO EP	23 02 52.0
JAN 27	
COL EP	02 13 30.0
JAN 27	
BOZ E(P)	02 06 35.5
E	07 09.5
JAN 27	
SLD E(P)	02 13 52.7
ES	14 11.2
JAN 27	
H-02 19 58.2	
22.5N 120.5E	
h ABOUT 27KM	

Date and Station	Phase (GCT) h m s
COL EP	02 31 12.0
JAN 27	
H-05 06 14.0	
15.1N 92.9W	
h ABOUT 43KM	
CSC E(P)	05 11 11.0
ALQ EP	05 11 20.0
TUC EP	05 11 24.3
BCN EP	05 12 08.7
FGU EP	05 12 16.5
EUR IP	05 12 35.8
BOZ EP	05 12 59.0
BUT E(P)	05 13 04.9
BMO EP	05 13 13.4
E	13 47.1
HHM EP	05 13 25.4
NEW IP	05 13 34.8
COL IP	05 16 30.0
JAN 27	
BMO E(P)	06 31 41.3
EUR EP	06 32 12.2
E	32 28.1
JAN 27	
COL EP	06 57 03.0
JAN 27	
COL EP	06 58 34.0
JAN 27	
H-08 11 36.7	
1.0N 28.1W	
h ABOUT 33KM	
HHM E(P)	08 24 28.0
E	24 35.0
EUR EP	08 24 25.0
BMO IP	08 24 29.1
E	24 45.8
JAN 27	
H-08 38 51.2	
8.9S 71.4W	
h ABOUT 600KM	
SJG EP'	08 43 50.0
E	45 21.0
ES	47 47.5
ALQ EP	08 47 27.5
EPCP	48 20.0
EPP	49 21.0
ESCP	51 22.0
TUC EP	08 47 34.0
EPCP	48 24.5
EPP	49 29.0

Date and Station	Phase (GCT) h m s
FGU EP	08 48 07.0
E	48 21.5
EUR IP D	08 48 25.3
EPP	50 23.9
BOZ EP	08 48 36.0
EPP	50 34.3
SLD EP D	08 48 37.7
BMO EP	08 48 51.2
EPP	50 51.4
HHM EP	08 48 52.3
NEW IP	08 49 03.4
EPP	51 05.0
COL EP D	08 50 59.5
EPP	53 17.0
JAN 27	
NEW EP	11 00 03.0
JAN 27	
H-11 06 03.6	
37.4N 114.1W	
h ABOUT 33KM	
BCN EPN	11 06 28.7
ES	06 47.7
LVN IP	11 06 30.5
EL	06 55.0
GCA EP	11 06 38.5
IS	07 04.5
EUR EP	11 06 43.0
JAN 27	
H-12 37 13.6	
20.3S 177.9W	
h ABOUT 440KM	
EUR EP	12 48 52.0
EPP	52 28.5
TUC EP	12 48 54.0
BMO EP	12 49 03.0
COL IP	12 49 15.9
BOZ E(P)	12 49 21.6
JAN 27	
BMO EP	13 58 16.1
JAN 27	
H-14 13 47.1	
31.5S 179.5E	
h ABOUT 470KM	
EUR E(P)	14 26 08.0
JAN 27	
EUR IP	16 38 20.7
JAN 27	
NEW EP	16 45 19.0
BMO EP	16 45 31.5

Date and Station	Phase (GCT)
	h m s
JAN 27	
BOZ EPN	17 19 04.0
EL	19 16.5
JAN 27	
EUR EP	17 51 53.4
JAN 27	
BMO EP	18 48 13.2
JAN 27	
BUT E(P)	19 04 34.0
BOZ EPN	19 04 47.0
EL	04 56.5
JAN 27	
BOZ EPN	19 32 56.3
EL	33 07.0
JAN 27	
COL EP	20 01 58.0
JAN 27	
H-20 13 10.2	
34.2N 116.8W	
h ABOUT 2KM	
BCN E(P)	20 13 48.7
ES	14 25.7
SLD E(P)	20 14 19.5
EL	15 25.7
GCA E(P)	20 14 28.5
E	14 42.0
ELG	15 47.5
EUR IPND	20 14 31.5
IPG	14 48.5
ELG	15 56.2
JAN 27	
EUR E(P)	21 03 04.3
EL	03 36.5
JAN 27	
PMR IP	22 28 20.8
IS	28 40.0
JAN 27	
EUR E(P)	22 29 04.5
ALQ E(P)	22 30 06.0
E(L)	30 45.0
JAN 27	
ALQ E(P)	22 45 18.0
E(L)	45 43.5
JAN 27	
BMO E(P)	23 22 10.8
JAN 27	
EUR IP	23 37 25.0
JAN 28	
SLD IP	00 01 28.9
IS	01 33.5
JAN 28	
H-01 40 27.9	
24.8N 121.9E	
h ABOUT 96KM	
BRW EP	01 50 52.2
COL IP	01 51 18.2
NEW IP	01 53 19.5
EpP	53 43.0
HHM EP	01 53 27.3
EpP	53 50.6
BMO IP	01 53 29.1
BOZ E(P)	01 53 40.0
EpP	54 05.5
SLD IP D	01 53 40.2
EUR EP C	01 53 47.8
EpP	54 13.7
JAN 28	
H-02 58 34.3	
30.2N 69.5E	
h ABOUT 47KM	
BRW E(P)	03 10 01.2
JAN 28	
TUC E(P)	02 59 08.8
JAN 28	
H-03 04 54.4	
51.8N 174.5E	
h ABOUT 31KM	
ADK EP	03 06 16.0
ES	07 22.5
COL EP	03 10 00.0
BMO EP	03 13 03.0
BOZ E(P)	03 13 25.7
EUR IP	03 13 35.0
TUC E(P)	03 14 34.2
JAN 28	
EUR EP	05 51 49.3
EL	52 22.7
JAN 28	
H-07 44 24.9	
32.7S 111.8W	
h ABOUT 33KM	
TUC E(P)	07 55 02.3
EUR IP	07 55 46.8
BMO EP	07 56 17.5
NEW EP	07 56 36.0
JAN 28	
H-08 16 21.7	
59.5N 152.4W	
h ABOUT 74KM	
PMR IP	08 17 03.9
IS	17 44.2
COL EP	08 17 47.0
BMO E(P)	08 21 58.9
JAN 28	
H-09 27 38.3	
36.6N 120.8W	
h ABOUT 8KM	
SLD EP	09 27 49.0
ES	27 57.7
EUR EPN	09 28 52.0
IPG	29 04.2
ILG	30 06.1
JAN 28	
PMR EP	10 22 40.2
IS	22 57.2
JAN 28	
ALQ EP	11 33 09.1
JAN 28	
SJG IP	11 53 14.0
IS	53 32.4
JAN 28	
COL EP	13 41 34.0
JAN 28	
H-13 43 01.3	
14.6N 92.8W	
h ABOUT 34KM	
ALQ EP	13 48 13.0
E	48 26.0
TUC EP	13 48 19.0
BCN EP	13 49 01.3
EUR EP C	13 49 28.2
BOZ EP	13 49 51.0
BMO EP	13 50 05.8
HHM E(P)	13 50 18.2
COL EP	13 53 21.8
BRW E(P)	13 53 58.0
JAN 28	
H-13 52 58.2	
52.4N 169.5W	
h ABOUT 43KM	
ADK IP	13 54 03.5
PMR EP	13 56 20.4
COL E(P)	13 56 47.0
ES	14 00 00.0
BRW EP C	13 57 25.6
I	57 45.0
IS	14 01 29.8
SIT IP	13 57 34.0
IS	14 01 21.0
KIP IP C	13 59 23.4
HON IP D	13 59 24.4
NEW EP	13 59 31.0
BMO EP	13 59 44.7
E	59 58.5
HHM EP C	13 59 45.6
EPCP	14 02 19.6
E(S)	05 10.5
UKI E(P)	13 59 50.5
ES	14 05 06.0
BUT E(P)	13 59 58.0
ES	14 05 49.4
EL	08 45.4
SLD EP	14 00 05.0
ESCP	06 09.5
BOZ IP C	14 00 10.5
IPCP	02 15.3
ESCP	06 15.0
EUR E(P)	14 00 17.5
SLC EP	14 00 34.6
BCN EP	14 00 41.8
EpP	00 54.8
EPCP	02 29.8
ESCP	06 29.8
ES	07 22.3
GCA EP	14 00 53.6
RCD IP	14 01 00.5
ES	07 20.0
TUC EP	14 01 22.5
ES	08 13.0
ALQ E(P)	14 01 28.0
EpP	01 40.0
ES	08 16.0
GUA EP	14 02 10.0
ES	09 37.0
CHK EP	14 02 16.2
ES	09 44.2
WSC IP	14 03 13.5
I	03 30.0
CSC EP	14 03 22.5
EpP	03 35.0
ES	11 48.0
BHP IP C	14 05 18.4
IS	15 34.6
SJG EP C	14 05 24.0
EpP	05 37.0
IPP	08 40.0
IS	15 42.0
ESS	21 04.0
EG	27 04.0
JAN 28	
H-14 05 57.1	
52.3N 169.5W	
h ABOUT 45KM	
COL EP	14 09 52.5

Date and Station	Phase (GCT)
	h m s
BRW EP	14 10 25.9
KIP E(P)	14 12 20.6
NEW EP	14 12 31.0
IpP	12 44.0
BMO E(P)	14 12 44.3
HHM EP	14 12 45.3
BOZ EP	14 13 08.5
SLD E(P)	14 13 09.5
EUR EP	14 13 18.5
BCN EP	14 13 43.3
ALQ E(P)	14 14 16.0
TUC E(P)	14 14 21.0
JAN 28	
ADK IP	14 14 04.7
IS	14 54.1
COL EP	14 16 50.8
BRW EP	14 17 27.4
JAN 28	
NEW EP	14 19 32.0
BMO E(P)	14 19 45.9
E	19 56.0
HHM EP	14 19 47.3
BOZ E(P)	14 20 30.5
JAN 28	
BMO E(P)	14 22 17.7
JAN 28	
H-14 23 26.1	
52.4N 169.4W	
h ABOUT 41KM	
ADK IP	14 24 33.7
IS	25 26.0
COL IP	14 27 17.0
BRW EP	14 27 54.0
SIT E(P)	14 28 05.0
KIP E(P)	14 29 52.0
NEW EP	14 29 59.0
E	31 20.0
BMO EP	14 30 12.4
HHM EP	14 30 15.6
EPCP	32 46.4
SLD E(P)	14 30 37.2
BOZ E(P)	14 30 38.5
EUR EP	14 30 47.7

Date and Station	Phase (GCT)
	h m s
BCN EP	14 31 10.8
GCA EP	14 31 22.5
TUC E(P)	14 31 51.0
ALQ E(P)	14 31 57.0
SJG EP	14 35 51.0
JAN 28	
H-14 30 25.9	
52.5N 169.4W	
h ABOUT 45KM	
ADK EP	14 31 32.0
COL EP	14 34 16.0
BRW EP	14 34 52.9
NEW EP	14 36 58.0
IpP	37 11.0
BMO EP	14 37 11.4
EpP	37 24.0
HHM EP	14 37 13.3
E	38 06.0
EPCP	39 45.3
BOZ EP	14 37 37.5
E	38 03.5
EPCP	39 55.0
EUR E(P)	14 37 47.5
BCN E(P)	14 38 18.3
TUC E(P)	14 38 49.0
ALQ E(P)	14 39 08.0
JAN 28	
BMO EP	14 39 44.5
E	39 56.8
JAN 28	
H-14 41 22.8	
52.4N 169.4W	
h ABOUT 44KM	
ADK IP	14 42 29.6
IS	43 21.2
COL EP	14 45 14.0
BRW EP	14 45 50.5
NEW EP	14 47 55.0
EpP	48 08.0
BMO EP	14 48 09.1
EpP	48 21.8
JAN 28	
H-14 49 36.1	
52.4N 169.4W	
h ABOUT 49KM	
ADK EP	14 50 43.0
COL EP	14 53 28.0

Date and Station	Phase (GCT)
	h m s
BRW E(P)	14 54 03.0
NEW EP	14 56 08.0
BMO EP	14 56 21.2
JAN 28	
BMO EP	14 50 41.5
HHM E(P)	14 50 41.6
ALQ E(P)	14 51 24.0
JAN 28	
BMO E(P)	14 55 54.1
JAN 28	
EUR E(P)	14 58 44.5
JAN 28	
BMO E(P)	15 03 11.0
JAN 28	
SJG EP	15 16 55.5
JAN 28	
COL EP	15 32 42.0
JAN 28	
H-15 34 21.6	
52.5N 169.4W	
h ABOUT 52KM	
ADK EP	15 35 28.0
ES	36 19.0
BRW E(P)	15 38 48.3
NEW EP	15 40 53.0
BMO E(P)	15 41 18.4
EUR E(P)	15 41 47.1
JAN 28	
H-15 38 22.2	
52.7N 169.2W	
h ABOUT 47KM	
ADK E(P)	15 39 31.0
COL EP	15 42 16.0
NEW E(P)	15 45 02.0
BMO E(P)	15 45 15.8
EUR EP	15 45 57.7
JAN 28	
H-15 45 23.0	
52.3N 169.6W	
h ABOUT 33KM	
COL EP	15 49 18.0
EUR E(P)	15 52 45.5
JAN 28	
H-15 58 18.9	
32.7S 111.7W	
h ABOUT 33KM	
EUR IP D	16 09 41.4

Date and Station	Phase (GCT)
	h m s
BMO EP	16 10 12.3
NEW EP	16 10 31.0
JAN 28	
H-16 00 06.6	
52.6N 169.2W	
h ABOUT 20KM	
ADK EP	16 01 17.0
ES	02 10.0
BMO EP	16 06 54.8
JAN 28	
ADK EP	16 22 46.0
ES	23 41.2
BMO EP	16 28 19.5
JAN 28	
H-16 31 22.6	
52.3N 169.3W	
h ABOUT 45KM	
ADK IP	16 32 29.5
COL IP	16 35 13.0
BRW EP D	16 35 51.0
SIT E(P)	16 35 54.8
NEW IP	16 37 55.0
BMO EP	16 38 08.7
EpP	38 22.3
HHM EP	16 38 10.2
EpP	38 24.5
EPCP	40 42.4
BUT E(P)	16 38 23.0
SLD EP	16 38 29.5
BOZ IP	16 38 35.0
IpP	38 47.5
EPCP	40 51.0
EUR IP	16 38 42.2
BCN EP	16 39 05.8
EpP	39 19.8
RCD EP	16 39 22.5
TUC EP	16 39 44.0
EpP	39 57.5
ALQ EP	16 39 52.4
EPCP	41 24.0
SJG EP	16 43 45.5
JAN 28	
BMO EP	16 44 36.5
JAN 28	
H-16 59 17.8	
52.5N 169.5W	
h ABOUT 38KM	
ADK E(P)	17 00 24.0

Date and Station	Phase (GCT)
	h m s
COL EP	17 03 08.4
BRW E(P)	17 03 47.5
NEW EP	17 05 51.0
HHM E(P)	17 06 06.5
BMO E(P)	17 06 11.5
BOZ E(P)	17 06 29.5
EUR E(P)	17 06 41.0
JAN 28	
NEW EP	17 04 41.0
BMO EP	17 05 20.5
JAN 28	
EUR E(P)	17 08 31.0
JAN 28	
H-17 13 02.6	
52.6N 169.4W	
h ABOUT 44KM	
ADK E(P)	17 14 09.0
COL EP	17 16 53.1
BRW E(P)	17 17 31.5
NEW EP	17 19 34.0
EUR E(P)	17 20 28.5
JAN 28	
H-17 19 32.7	
52.2N 169.5W	
h ABOUT 40KM	
ADK EP	17 20 39.0
IS	21 30.3
COL IP	17 23 25.8
ES	26 48.0
BRW EP D	17 24 02.6
SIT E(P)	17 24 12.0
NEW IP	17 26 06.2
EpP	26 20.0
BMO EP	17 26 20.4
EpP	26 33.8
HHM E(P)	17 26 21.7
SLD E(P)	17 26 39.2
BOZ EP	17 26 45.0
EpP	26 58.6
EUR IP	17 26 53.8
BCN EP	17 27 17.9
TUC EP	17 27 55.0
ALQ E(P)	17 28 03.5

Date and Station	Phase (GCT)
	h m s
JAN 28	
H-17 26 34.4	
52.3N 169.4W	
h ABOUT 45KM	
ADK EP	17 27 39.5
IS	28 32.0
COL EP	17 30 26.0
NEW EP	17 33 07.0
EpP	33 21.0
HHM E(P)	17 33 19.6
BMO EP	17 33 20.4
EpP	33 33.4
BOZ EP	17 33 43.0
EUR IP	17 33 54.1
TUC EP	17 34 56.0
JAN 28	
HHM E(P)	17 28 56.2
BOZ E(P)	17 29 15.5
JAN 28	
ALQ EP	17 33 56.4
E	35 29.0
BMO E(P)	17 35 51.2
NEW EP	17 36 09.0
COL E	17 41 04.0
JAN 28	
EUR E(P)	17 40 04.0
BMO E(P)	17 40 12.7
JAN 28	
H-17 42 01.8	
52.4N 169.4W	
h ABOUT 50KM	
ADK EP	17 43 07.0
PMR E(P)	17 45 18.2
COL EP	17 45 51.3
ES	49 17.8
EL	50 55.5
BRW EP	17 46 28.9
EPCP	50 45.9
EL	54 37.0
SIT IP	17 46 34.0
IS	50 21.0
KIP IP C	17 48 24.7
NEW IP	17 48 32.8
IpP	48 47.0
BMO EP	17 48 46.7
EpP	48 59.0
HHM EP	17 48 48.2
EpP	49 02.5

Date and Station	Phase (GCT)
	h m s
BUT EP	17 49 05.1
SLD EP	17 49 07.0
IpP	49 21.9
EPCP	51 27.5
BOZ IP C	17 49 12.3
IPCP	51 31.7
EUR IP C	17 49 21.7
I	51 06.3
E(S)	55 17.0
SLC EP	17 49 36.0
E	49 46.1
BCN EP	17 49 45.9
E	49 55.4
GCA EP	17 49 56.3
RCD EP	17 50 02.0
EpP	50 14.0
TUC EP	17 50 22.0
ES	57 13.0
ALQ EP D	17 50 30.6
EpP	50 45.0
EPCP	52 02.0
GUA EP	17 51 12.0
E(S)	58 57.0
CSC EP	17 52 24.7
SJG EP	17 54 27.0
ES	18 04 47.0
JAN 28	
BOZ EPN	18 00 45.5
EL	00 56.7
HHM E(P)	18 01 16.1
E	01 53.6
BMO EP	18 01 38.5
JAN 28	
BMO E(P)	18 21 21.5
JAN 28	
H-18 35 39.7	
5.2N 77.2W	
h ABOUT 135KM	
TUC E(P)	18 43 13.5
BMO EP	18 44 41.3
JAN 28	
BMO E(P)	18 45 49.1
JAN 28	
H-18 53 30.5	
52.4N 169.3W	
h ABOUT 44KM	
ADK EP	18 54 38.0
COL EP	18 57 22.0
BRW E(P)	18 57 59.8

Date and Station	Phase (GCT)
	h m s
NEW E(P)	19 00 13.0
BMO EP	19 00 16.1
BOZ E(P)	19 00 41.7
JAN 28	
BOZ EPN	19 04 00.0
EL	04 12.7
BCN (PN)	19 05 18.9
EL	05 45.9
JAN 28	
COL EP	19 27 32.0
BMO E(P)	19 30 34.2
JAN 28	
COL EP	19 56 52.0
BMO EP	19 59 54.3
EUR IP	20 00 26.2
BMO E(P)	20 01 37.8
JAN 28	
H-20 10 21.5	
52.7N 169.5W	
h ABOUT 45KM	
ADK EP	20 11 29.0
COL EP	20 14 12.9
BMO EP	20 17 07.9
BOZ E(P)	20 17 32.7
EUR EP	20 17 41.1
EpP	17 53.2
JAN 28	
BOZ EPN	20 16 03.5
E	16 17.2
EL	16 22.5
JAN 28	
H-20 48 33.4	
52.4N 169.4W	
h ABOUT 40KM	
ADK EP	20 49 41.0
COL EP	20 52 24.0
BRW E(P)	20 53 02.5
NEW EP	20 55 04.0
EpP	55 18.0
BMO EP	20 55 19.7
EpP	55 31.0
HHM E(P)	20 55 21.6
BOZ EP	20 55 45.0
EpP	55 58.5
EUR IP	20 55 54.0
BCN E(P)	20 56 18.4

Date and Station	Phase (GCT)
	h m s
JAN 28	
SJG EP	20 51 02.5
ES	51 36.0
JAN 28	
H-21 02 56.4	
52.6N 169.5W	
h ABOUT 46KM	
ADK EP	21 04 02.5
COL EP	21 06 45.0
BMO EP	21 09 42.7
EUR E(P)	21 10 16.7
JAN 28	
ALQ E(P)	21 22 28.0
E(L)	23 06.5
JAN 28	
BMO E(P)	21 28 25.0
JAN 28	
COL EP	22 06 52.0
JAN 28	
H-22 28 06.3	
55.0N 160.2E	
h ABOUT 163KM	
BRW IP D	22 33 11.9
ES	37 19.1
ESCP	40 13.9
COL IP	22 33 34.1
KIP IP D	22 36 13.0
NEW EP	22 36 36.0
E	37 04.0
EPP	38 31.0
HHM E(P)	22 36 48.5
EPP	38 36.1
ESCP	41 49.6
BMO IP	22 36 53.7
E	37 20.8
BOZ EP	22 37 11.5
E	37 38.5
SLD IP C	22 37 18.7
E	37 46.0
EUR IP C	22 37 27.7
I	37 53.5
RCD E(P)	22 37 49.0
E	38 17.0
BCN EP	22 37 49.4
E	38 15.9
TUC EP	22 38 21.7
E	38 49.5
ALQ EP C	22 38 24.5
E	39 03.5
JAN 28	
COL EP	22 37 16.0

Date and Station	Phase (GCT)
	h m s
JAN 28	
BCN E(P)	22 52 53.9
EUR E(P)	22 52 55.0
JAN 28	
BOZ EPN	22 56 12.7
EL	56 23.4
JAN 28	
H-23 56 33.4	
52.5N 169.5W	
h ABOUT 27KM	
ADK E(P)	23 57 40.0
COL EP	24 00 25.0
NEW EP	24 03 09.0
BMO EP	24 03 21.7
EUR E(P)	24 04 02.5
JAN 29	
H-00 12 13.3	
47.9N 14.3E	
h ABOUT 22KM	
BRW E(P)	00 22 20.8
COL EP	00 23 05.0
BMO EP	00 24 13.6
JAN 29	
BMO EP	00 34 28.9
JAN 29	
COL EP	01 14 38.0
JAN 29	
H-01 17 22.6	
11.6S 165.1E	
h ABOUT 33KM	
COL EP	01 29 49.0
EUR EP	01 30 15.0
BMO E(P)	01 30 17.1
JAN 29	
H-01 58 46.0	
11.6S 165.1E	
h ABOUT 33KM	
COL IP	02 11 13.2
EUR EP	02 11 38.0
BCN EP	02 11 39.4
TUC EP	02 11 49.5
JAN 29	
ADK E(P)	02 08 52.0
BMO EP	02 14 33.0
JAN 29	
TUC E(P)	02 37 02.0
BMO EP	02 37 15.4

Date and Station	Phase (GCT)
	h m s
COL EP	02 37 35.0
JAN 29	
COL EP	03 26 27.0
JAN 29	
TUC E(P)	03 39 17.5
JAN 29	
H-03 53 58.0	
26.5N 55.2E	
h ABOUT 26KM	
BRW E(P)	04 06 01.5
COL EP	04 06 45.0
BMO EP'	04 12 23.5
E	12 37.8
JAN 29	
COL EP	04 03 50.0
JAN 29	
EUR EP	04 13 34.0
JAN 29	
H-04 33 00.2	
52.5N 169.4W	
h ABOUT 55KM	
ADK E(P)	04 34 07.0
COL E(P)	04 36 50.6
NEW EP	04 39 31.0
BMO EP	04 39 46.7
EUR EP	04 40 18.5
JAN 29	
COL EP	06 13 15.0
JAN 29	
H-07 01 34.9	
48.0N 103.0E	
h ABOUT 33KM	
COL EP	07 11 02.0
NEW EP	07 13 31.0
HHM E(P)	07 13 35.7
BMO EP	07 13 47.1
BOZ EP	07 13 53.0
EUR IP	07 14 15.2
ALQ EP	07 14 49.1
JAN 29	
SJG EP	07 02 19.6
ES	03 14.5
JAN 29	
COL EP	07 25 15.0
BRW EP	07 25 39.6
JAN 29	
COL IP	07 26 24.8

Date and Station	Phase (GCT)
	h m s
BMO E(P)	07 31 58.0
JAN 29	
H-07 56 40.3	
26.5N 55.3E	
h ABOUT 44KM	
BRW EP	08 08 41.4
COL IP	08 09 24.7
BMO E(P)	08 11 10.6
NEW EP'	08 15 06.0
BMO EP'	08 15 11.3
EUR IP'	08 15 21.2
EPKKP	26 03.9
TUC EP'	08 15 30.5
JAN 29	
BCN EP	08 33 20.8
JAN 29	
H-09 23 39.5	
52.4N 169.6W	
h ABOUT 33KM	
COL EP	09 27 32.0
NEW EP	09 30 14.0
BMO E(P)	09 30 28.3
HHM E(P)	09 30 30.5
BOZ E(P)	09 30 51.4
EUR E(P)	09 31 03.0
JAN 29	
ADK E(P)	09 25 18.0
JAN 29	
COL IP	10 44 34.7
JAN 29	
H-12 10 19.5	
51.6N 177.3E	
h ABOUT 33KM	
ADK E(P)	12 12 15.2
COL IP	12 15 16.4
BRW EP C	12 15 19.6
BMO EP	12 18 16.5
HHM E(P)	12 18 16.7
BOZ E(P)	12 18 37.5
EUR IP	12 18 47.3
JAN 29	
BMO EP	13 09 40.7
JAN 29	
H-15 06 40.9	
22.8N 121.3E	
h ABOUT 32KM	

Date and Station	Phase	(GCT) h m s
COL	EP	15 17 52.9
JAN 29		
H-15 41 56.5		
24.2N 123.5E		
h ABOUT 42KM		
BRW	E(P)	15 52 28.5
COL	EP	15 52 51.6
NEW	EP	15 54 52.0
BMO	EP	15 55 01.2
JAN 29		
COL	EP	16 50 13.2
JAN 29		
H-16 51 02.3		
15.3N 145.5E		
h ABOUT 95KM		
GUA	EP	16 51 34.0
	IS	51 58.0
BRW	EP	17 01 35.5
COL	EP	17 01 42.0
BMO	EP	17 03 25.1
EUR	EP	17 03 36.9
JAN 29		
H-17 46 34.4		
16.0S 173.7W		
h ABOUT 133KM		
BCN	EP	17 58 09.4
	EpP	58 41.4
TUC	E(P)	17 58 13.4
EUR	IP	17 58 14.9
GCA	EP	17 58 25.0
	EpP	58 57.0
BMO	EP	17 58 26.1
	EpP	59 00.1
ALQ	EP	17 58 38.5
	EpP	59 12.5
COL	IP	17 58 45.5
BOZ	EP	17 58 46.5
	EpP	59 21.0
JAN 29		
SJG	IP	17 48 33.5
	IS	48 43.5
JAN 29		
COL	E(P)	18 27 15.0
JAN 29		
H-18 27 44.1		
4.6S 77.8W		
h ABOUT 74KM		
SJG	EP	18 33 06.5
ALQ	E(P)	18 36 16.2
TUC	EP	18 36 19.5
JAN 29		
COL	EP	18 33 27.0
JAN 29		
H-20 11 22.9		
12.0N 88.9W		
h ABOUT 33KM		
EUR	EP	20 18 29.2
BMO	E(P)	20 19 03.5
COL	EP	20 22 10.0
	EPCP	22 40.0
JAN 29		
COL	EP	20 29 48.0
JAN 29		
TUC	EP	21 17 34.5
EUR	EP	21 19 18.5
COL	EP	21 24 59.0
JAN 29		
COL	EP	22 00 32.5
JAN 29		
EUR	EP	22 04 06.7
	EL	04 56.0
JAN 29		
ALQ	E(P)	22 30 48.0
	E	30 55.0
	E(L)	31 34.5
JAN 29		
H-22 41 57.9		
19.3N 109.0W		
h ABOUT 33KM		
TUC	EP	22 45 02.3
ALQ	E(P)	22 45 40.0
BCN	EP	22 45 59.9
EUR	EP	22 46 40.0
JAN 29		
ADK	E(P)	22 50 45.6
JAN 29		
COL	EP	23 01 18.0
JAN 29		
ADK	E(P)	23 54 38.5
JAN 30		
H-01 20 27.7		
41.0N 44.3E		
h ABOUT 6KM		
BRW	EP	01 31 19.7
COL	EP	01 32 07.4
HHM	EP	01 33 25.7
NEW	IP	01 33 30.2
BOZ	EP	01 33 36.2
BMO	EP	01 33 44.4
EUR	IP	01 34 08.1
JAN 30		
GUA	IP	01 21 57.0
	IS	22 02.0
JAN 30		
COL	IP	01 39 20.0
JAN 30		
COL	EP	01 47 04.0
	I	47 08.0
JAN 30		
H-02 44 20.4		
19.6N 109.0W		
h ABOUT 33KM		
TUC	EP	02 47 21.5
ALQ	E(P)	02 47 59.0
BCN	EP	02 48 19.4
SLD	EP	02 48 55.0
EUR	IP	02 49 00.5
BOZ	E(P)	02 49 54.3
BMO	EP	02 49 54.4
JAN 30		
COL	IP	03 57 09.0
JAN 30		
H-04 01 57.6		
49.9N 78.0E		
h ABOUT 0KM		
COL	EP	04 12 09.0
BMO	EP	04 14 34.0
BOZ	E(P)	04 14 34.0
EUR	IP	04 15 02.8
JAN 30		
ADK	IP	04 06 55.6
	IS	07 09.3
JAN 30		
H-05 54 30.8		
52.0N 169.1W		
h ABOUT 19KM		
ADK	E(P)	05 55 41.5
	ES	56 33.0
COL	EP	05 58 28.0
BMO	E(P)	06 01 27.0
JAN 30		
SJG	EP	06 12 08.2
	ES	12 32.0
JAN 30		
COL	E(P)	06 59 57.3
JAN 30		
COL	EP	07 06 33.5
JAN 30		
H-07 09 29.8		
25.4N 90.5E		
h ABOUT 46KM		
COL	IP	07 21 33.8
JAN 30		
COL	EP	07 14 57.0
JAN 30		
COL	EP	08 35 29.0
JAN 30		
BMO	EP	08 54 12.6
JAN 30		
H-09 30 27.2		
12.2N 87.6W		
h ABOUT 8KM		
BOZ	E(P)	09 37 55.5
BMO	EP	09 38 16.1
JAN 30		
SJG	EP	10 14 46.5
	IS	15 07.3
JAN 30		
H-10 39 59.1		
34.5N 138.6E		
h ABOUT 211KM		
COL	E(P)	10 48 52.5
	EpP	49 38.7
BMO	EP	10 51 21.0
BOZ	E(P)	10 51 36.7
EUR	IP	10 51 43.2
JAN 30		
ADK	E(P)	10 43 32.8
	ES	44 25.5
BMO	E(P)	10 46 22.0
JAN 30		
ADK	IP	11 45 29.0
	IS	45 50.6
BOZ	E(P)	11 52 32.7
EUR	EP	11 52 40.4
JAN 30		
SLD	EP	11 55 08.7
	ES	55 21.2
JAN 30		
TUC	E(P)	12 24 33.5
ALQ	E(P)	12 24 46.0
EUR	EP	12 25 05.5

Date and Station	Phase (GCT)
	h m s
COL EP	12 30 33.0
JAN 30	
H-12 25 02.3	
39.6N 41.4E	
h ABOUT 50KM	
BMO E(P)	12 38 14.8
JAN 30	
BMO E(P)	12 39 14.7
JAN 30	
COL IP D	12 34 39.9
IS	35 31.1
JAN 30	
COL EP	13 06 01.0
JAN 30	
H-13 21 59.1	
24.0S 67.7W	
h ABOUT 198KM	
ALQ EP	13 32 46.8
BOZ E(P)	13 33 32.5
EUR EP	13 33 34.6
BMO EP	13 33 58.5
JAN 30	
H-14 14 09.2	
34.2N 117.1W	
h ABOUT 6KM	
CED IP	14 14 13.1
BCN EP	14 14 50.2
EL	15 29.9
EUR EPG	14 15 36.7
ELG	16 57.5
JAN 30	
H-14 19 33.5	
4.3N 126.0E	
h ABOUT 123KM	
COL EP	14 31 54.0
JAN 30	
COL EP	14 35 35.0
JAN 30	
SJG IP C	15 09 00.6
I	09 11.0
I	09 45.5
JAN 30	
SJG EP	15 45 15.5
I	45 26.0
E	45 42.0
I	46 05.9
JAN 30	
COL EP	16 24 59.0
JAN 30	
SJG EP	17 03 00.9
I	03 11.3
I	03 20.3
I	03 45.0
JAN 30	
EUR EP	17 29 57.0
JAN 30	
SJG IP C	18 31 07.9
I	31 18.5
I	31 39.7
I	31 59.5
JAN 30	
H-18 32 43.5	
52.2N 169.6W	
h ABOUT 40KM	
ADK EP	18 33 49.2
COL EP	18 36 39.0
NEW IP	18 39 18.1
E	39 28.0
BMO EP	18 39 31.7
BOZ E(P)	18 39 57.0
EpP	40 08.3
EUR IP C	18 40 05.5
IpP	40 17.2
EPCP	42 16.3
TUC E(P)	18 41 06.8
ALQ EP	18 41 15.5
EPCP	42 46.0
JAN 30	
BMO E(P)	18 42 04.0
JAN 30	
BOZ EPN	19 04 37.0
EL	04 46.0
JAN 30	
H-20 11 39.0	
25.3N 124.7E	
h ABOUT 129KM	
COL EP	20 22 17.0
NEW EP	20 24 18.0
BMO EP	20 24 27.6
EUR EP	20 24 46.5
JAN 30	
SJG EP	20 42 40.1
I	42 50.6
I	43 12.0
I	43 31.5
JAN 30	
H-21 05 31.3	
26.1N 96.1E	
h ABOUT 51KM	
COL IP	21 17 19.0
NEW EPP	21 23 16.0
BMO E(P)	21 19 27.4
E	22 42.4
EPP	23 41.2
BOZ EPP	21 23 41.5
EUR IP'	21 23 54.9
ALQ EP'	21 24 10.0
JAN 30	
TUC EPN	21 44 34.0
EL	46 11.0
ALQ E(P)	21 45 48.0
E(L)	02 14 82.8
JAN 30	
COL EP	22 18 18.0
JAN 30	
BUT EP	22 49 31.5
BOZ EPN	22 49 44.5
EL	49 54.5
BZM EP	22 49 52.6
HHM EPN	22 50 13.6
EL	50 51.6
JAN 30	
SJG EP	23 00 02.0
JAN 30	
H-23 09 02.1	
8.4S 159.2E	
h ABOUT 93KM	
COL EP	23 21 17.0
BMO IP	23 21 59.3
EpP	22 27.1
EUR IP	23 22 00.3
JAN 30	
COL IP	23 21 46.1
JAN 31	
H-00 15 40.5	
8.9S 118.9E	
h ABOUT 144KM	
TUC EP'	00 34 33.0
JAN 31	
ALQ EP	00 37 41.0
JAN 31	
GUA IP	01 39 49.0
IS	40 20.0
JAN 31	
BMO EP	01 51 55.7
JAN 31	
GUA EP	01 39 49.0
ES	40 20.0
JAN 31	
TUC E(P)	02 08 26.5
JAN 31	
TUC E(P)	03 11 51.5
JAN 31	
H-03 35 34.6	
48.0N 103.0E	
h ABOUT 20KM	
COL EP	03 45 05.0
NEW EP	03 47 33.0
BMO EP	03 47 49.5
BOZ EP	03 47 54.3
E	48 08.0
EUR IP	03 48 17.0
ALQ EP	03 48 51.2
JAN 31	
SJG EP	03 51 15.5
IS	51 43.0
JAN 31	
SLD EP	04 20 54.8
JAN 31	
SJG EP	06 37 09.0
IS	37 37.0
JAN 31	
H-06 45 02.7	
24.1S 67.1W	
h ABOUT 198KM	
BMO EP	06 57 05.4
JAN 31	
H-07 32 02.3	
33.2N 140.8E	
h ABOUT 33KM	
BMO EP	07 43 42.0
JAN 31	
ALQ E(P)	07 43 30.5
JAN 31	
NEW EP	09 05 58.0
JAN 31	
H-09 57 47.1	
2.0S 125.6E	
h ABOUT 30KM	
BRW EP	10 10 32.8
COL EP	10 10 45.5
EpP	10 55.0
ALQ EP'	10 16 41.4
JAN 31	
H-13 24 26.1	
13.8N 120.8E	
h ABOUT 196KM	
BRW EP	13 35 42.5
COL EP	13 36 05.0
JAN 31	
H-13 37 32.5	
2.8N 84.4W	
h ABOUT 22KM	

Date and Station	Phase	Phase (GCT) h m s
BHP	IP C	13 39 29.4
SJG	EP	13 42 43.5
	ES	47 02.0
CSC	E(P)	13 43 52.0
ALQ	IP D	13 44 52.0
	EpP	44 58.5
TUC	EP	13 44 56.3
	E	46 36.5
	ESCP	51 00.0
GCA	IP C	13 45 28.5
	EL	17 04 28.6
BCN	EP	13 45 35.9
	EpP	45 41.9
	EPCP	47 23.9
SLC	EP	13 45 50.5
EUR	IP C	13 46 00.2
	IPCP	47 34.4
SLD	EP	13 46 12.0
BOZ	IP D	13 46 18.5
	IpP	46 25.0
	IPCP	47 49.7
BUT	EP	13 46 24.7
	EPCP	47 45.7
BMO	EP	13 46 32.4
HHM	EP	13 46 42.7
NEW	IP	13 46 52.0
COL	EP	13 49 21.0
BRW	EP	13 49 47.5
JAN 31		
EUR	EP	13 54 11.5
JAN 31		
BCN	EPN	14 13 09.4
	EL	13 35.4
EUR	IP C	14 13 13.0
	I	13 15.3
	IS	13 46.2
JAN 31		
SJG	EP	14 23 28.5
	I	23 39.0
	ILG	24 16.0
JAN 31		
TUC	E(P)	14 43 07.0
JAN 31		
SJG	EP	15 20 58.5
	ELG	21 35.0
JAN 31		
NEW	EP	17 11 40.0
	E	12 55.0

Date and Station	Phase	Phase (GCT) h m s
JAN 31		
H-17 43 57.3		
42.9N 145.5E		
h ABOUT 51KM		
BRW	IP	17 51 24.0
COL	EP	17 51 49.5
NEW	EP	17 54 26.0
	E	54 38.0
NEW	EP	17 54 26.0
	I	54 38.0
HHM	EP	17 54 37.2
BMO	EP	17 54 39.0
	E	54 51.5
BOZ	EP C	17 54 56.0
	I	55 06.5
EUR	IP	17 55 05.8
BCN	EP	17 55 23.9
	E	55 35.9
TUC	EP	17 55 51.3
	E	56 04.0
ALQ	EP	17 55 55.6
JAN 31		
H-19 00 26.3		
26.6N 55.2E		
h ABOUT 37KM		
COL	EP	19 13 12.0
JAN 31		
BOZ	EPN	19 07 37.3
	EL	07 48.2
JAN 31		
NEW	EP	19 09 26.0
JAN 31		
BOZ	EPN	19 29 00.0
	EL	29 11.7
JAN 31		
COL	EP	19 48 15.0
JAN 31		
COL	EP	20 03 03.0
JAN 31		
COL	IP	20 13 37.5
JAN 31		
COL	EP	20 21 27.0
JAN 31		
ALQ	E(P)	20 35 49.4
	E(L)	2 36 23.0
TUC	E(P)	20 36 37.1
JAN 31		
BMO	EP	20 46 07.7

Date and Station	Phase	Phase (GCT) h m s
JAN 31		
H-20 58 15.8		
24.0N 121.7E		
h ABOUT 36KM		
COL	P	21 09 17.0
NEW	EP	21 11 18.0
BMO	EP	21 11 27.6
JAN 31		
BCN	(PN)	21 51 22.0
	EL	51 45.5
JAN 31		
ALQ	E(P)	22 26 34.5
	E(L)	2 27 07.6
GCA	E(P)	22 26 42.3
	ILG	27 13.8
JAN 31		
BUT	EPN	22 52 43.8
BOZ	EPN	22 52 56.5
	EL	53 07.5
JAN 31		
ALQ	E(P)	23 02 33.5
	E(L)	2 02 58.5