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COAST & GEODETIC SURVEY
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CONTENTS

List of stations 1
Station constants 2
Provisional epicenters 5
Seismogram interpretations 11
Local and minor earthquakes 30

U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1962

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

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

*Indicates a station maintained by a local institution in cooperation with the Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
Other stations are observatories of the Coast and Geodetic Survey.

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

All magnitude determinations are by Pasadena, unless otherwise stated. Minor earthquakes are listed at the end of the bulletin.

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

All seismograms are on file in the Coast and Geodetic Survey, except those from Balboa Heights, which may be obtained on loan by addressing the Seismograph Station Director, Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone.

STATION AND INSTRUMENTAL CONSTANTS FOR 1962

Station	Position	Instrument	Foundation and Elevation	T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
Albuquerque, N. Mex. Herman J. Wirz In Charge	Log cos 9.91367 Lat. 34°56.5'N Long. 106°27.5'W	B-Z, N, E SP Mass 107.5 SPg Series 201 Z, NE LP	Granite 6080 ft.	Z 1.0	0.75		200000	17.1	60mm/min.	Beginning	Up
				Z 30 N 30 E 30	100 100 100		3000 3000 3000	Near crit.	15mm/min	Beginning	Up N E
Balboa Heights, C. Z. W. H. Esslinger In Charge	Log cos 9.99467 Lat. 8°57'39"N Long. 79°33'29"W	W-A, N&E Mass 1.3g Spg. LP (Series H) Spg. LP (Series H) Spg. SP (Series D-H)	Basalt 36 m.	N 1.0 E 1.0 N 20 E 20 Z 1.9	 20 1.9		1370 1370 5000 5000 3000	14:1	60mm/min.	Beginning	N E
Boulder City, Nev. V. B. Uehling In Charge	Log cos 9.90806 Lat. 35°58'51"N Long. 114°50'02"W	B, film Z , Mass 100 lb.	Fractured monzonite 776 m.	Z 1.4	0.45		50000	Near crit.	60mm/min.	Beginning	Up
Bozeman, Mont. A. J. M. Johnson In Charge	Log cos 9.84437 Lat. 45°40'01"N Long. 111°02'43"W	Spg. N&E W-L, Z	Alluvium glacial drift and lake deposits 500' thick over gneiss and schist. 1490 m.	N 11.1 E 10.9 Z 1.1	8.3 7.6 1.7		8000 8000 24000	3:1 11:1 Under damped	30mm/min. 60mm/min.	Beginning Beginning	N E Up
Butte, Mont. S. W. Mile In Charge	Log cos 9.84167 Lat. 46°00.8' N Long. 112°33.8' W	W-A, N. Mass 2g W-L, NE B, paper, Z Mass 100 lb.	Rhyolite 30 m. thick resting on granite 1758 m.	N 8.02 N 8.0 E 8.0 Z 1.1	 3.8 3.9 0.5		316 12000 12000 50000	50:1 Near crit. Near crit. Near crit.	15mm/min. 30mm/min. 60mm/min.	Beginning Beginning	S N E Up
Chicago, Ill. W. F. Schmidt In Charge	Log cos 9.87251 Lat. 41°47.3' N Long. 87°36.0' W	McC-R, N&E Mass 2.5 kg	Limestone 180 m.	N 10 E 10			335 335	15:1 15:1	15mm/min.	End	N W
College, Alaska K. Cravens In Charge	Log cos 9.62825 Lat. 64°51.6' N Long. 147°50.2' W	W-L, film, Z B, film, NE N, N	Granite schist. 159 m.	Z 1.19 N 1.36 E 1.40 N 9.5	0.45 0.45 0.45 12.0		40000** 50000 50000 1000	Near crit. Near crit. Near crit. Near crit.	15mm/min.	Beginning	Up N E N
[1]College Outpost K. Cravens In Charge	Log cos 9.62781 Lat. 64°53'08"N Long. 147°48'04"W	B,paper, Z	Weathered Schist 183 m.	Z 1.5	0.53		425000	Near crit.	60mm/min.	Beginning	Up
Columbia, S. C. C. F. Mercer In Charge	Log cos 9.91857 Lat. 34°00' N Long. 81°02' W	W-L, ZNE	Consolidated sand 150' thick over granite, 94m.	Z 1.1 N 8.0 E 8.0	1.6 4.1 4.1		24000 13000 13000	Under damped	60mm/min. 30mm/min.	Beginning	Up N E
Eureka, Nev. W. DeFoe[illegible] In Charge	Log cos 9.88751 Lat. 39°29'00"N Long. 115°58'12"W	B, paper, Z Mass 100 lb.	Dolomite bedrock 7150 ft.	Z 1.08 1.1	0.55 1.5		420000 25000	Near crit. Near crit.	60mm/min. 30mm/min.	Beginning Beginning	Up Up
Flaming Gorge, Utah J. Hanfelt In Charge	Log cos 9.87826 Lat. 40°55'36"N Long. 109°23'10"W	B, film ZNE	Quartzsite 6500 ft.	Z 1.06 N 1.41 E 1.48	0.33 0.35 0.58			6:1 3:1 3:1	15mm/min. 15mm/min. 15mm/min.	Beginning	Up N E

Station	Position	Instrument	Foundation and Elevation	T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
Glen Canyon, Ariz.	Log cos 9.90250	B, film ZNE	Navajo Sand-	Z 1.10	0.37		25000	8:1	15mm/min.	Beginning	Up
George Atkinson	Lat. 36°58'25"N		stone. 390 ft.	N 1.40	0.43		50000	3:1			N
In Charge	Long. 111°35'35"W			E 1.37	0.45		50000	2:1			E
Guam, Mariana Islands	Log cos 9.98768	W-L, Z	147 ft.	Z 1.01	1.5		5000	Near crit.	30mm/min.	Beginning	Up
Roland F. White	Lat. 13°35'16"N	HTL, Z		Z 0.5	0.55		42000	Near crit.	30mm/min.	Beginning	Up
In Charge	Long. 144°51'58"E	Spg, NE		N 7.35	7.0		3000	Near crit.	30mm/min.	Beginning	N
				E 7.09	7.2		3000	Near crit.	30mm/min.	Beginning	E
*Honolulu, Hawaii	Log cos 9.96926	M-S, N&E	Coral 3m.	N 12			124	20:1	15mm/min.	Beginning	N
G. E. Haraden	Lat. 21°18'13"N	Mass 1 lb.		E 12			142	20:1			W
In Charge	Long. 158°05'44"W	HTL Z		Z 0.5	0.5		20000		60mm/min.		Up
		Lamont, ZNE		Z 15	75		8000		15mm/min.		Up
				N 15	75		8000				N
				E 15	75		8000				W
Hungry Horse, Mont.	Log cos 9.82255	B-VR, Z	Argillaceous	Z 1.05	0.5		188000	Near crit.	60mm/min.	Beginning	Up
R. E. Wendt	Lat. 48°20'58"N		Limestone	Z 1.05	92			Near crit.	30mm/min.	Beginning	Up
In Charge	Long. 114°01'39"W	W-L, N	(Belt series)	N 3.5	3.9		10000	Near crit.	30mm/min.	Beginning	N
		W-L, E	1100 m.	E 3.4	4.1		10000	Near crit.	30mm/min.	Beginning	E
Kipapa, Hawaii	Log cos 9.96893	B-VR, Z	Basalt	Z 1.09	0.2		30000	Near crit.	60mm/min.	Beginning	Up
G. E. Haraden	Lat. 21°25.3' N		75 m.								
In Charge	Long. 158°00.9' W										
*Philadelphia, Pa.	Log cos 9.88452	W, N&E	Cape May	N 9.0	5.4	7.8	1400	15:1	20mm/min.	End	S
I. M. Levitt	Lat. 39°57'32"N	Mass 500 g.	sand and	E 9.2	4.1	7.4	1400	15:1			E
In Charge	Long. 75°10'30"W		gravel. 5 m.								
Rapid City, S. Dak.	Log cos 9.85637	W-A, E	Shale	E 6.7			725	15:1	15mm/min.	Beginning	E
E. L. Tullis	Lat. 44°04.6' N	(Dbl. refl.)	1045 m.								
In Charge	Long. 103°12.0' W	Mass 2 g.									
		W-L, Z		Z 1.08	1.6		1800		60mm/min.		Up
Salt Lake City, Utah	Log cos 9.87932	McC-R, N&E	Bonneville	N 9.9			335	15:1	15mm/min.	Beginning	N
A. M. Anderson	Lat. 40°45'55"N	Mass 2.5 kg.	Lake beds	E 10			335	15:1			W
In Charge	Long. 111°50'54"W	W-L, Z	1425 m.	Z 1.2	1.8		24000	Near crit.	60mm/min.		Up
San Juan, P. R.	Log cos 9.97726	W, N&E	Limestone	N 9.8	15.6	10.4		20:1	30mm/min.	Beginning	N
M. Vazquez	Lat. 18°22.9' N	Mass 500 g.	80 m.	E 9.8	16.8	10.4	1280	20:1			W
In Charge	Long. 66°07.1' W	B, Z		Z 1.05	0.5	0.6	20000	Crit.	60mm/min.		Up
*Sitka, Alaska	Log cos 9.73544	W, N&E	Graywacke	N 7.5	16.5	8.2	1000	20:1	15mm/min.	Beginning	S
M. L. Cleven	Lat. 57°03'25"N	Mass 500 g.	19 m.	E 7.5	13.2	8.2	1000	5.5:1			E
In Charge	Long. 135°19'28"W	W-L, Z		Z 1.12	1.5		10000		60mm/min.		Up
Thule, Greenland	Log cos 9.36644	W-L, Z	Glacial	Z 1.3	1.55		12000	Near crit.	60mm/min.	Beginning	Up
Lt. F. J. Lord, Jr.	Lat. 76°33.4' N		material								
In Charge	Long. 68°40.5' W		275 m.								

Station	Position	Instrument	Foundation and Elevation	T_o	T_g	T_s	V	Σ	Paper Speed	Time Break Reference Point	Ground Motion Trace "Up"
*Tucson, Ariz.	Log cos 9.92725	W-A, N&E	Caliche or	N 8.0			466	Crit.	30mm/min.	Beginning	S
C. J. Beers	Lat. 32°14.8' N	Mass 2.3 g.	gravels 100-	E 8.0			457	Crit.			E
In Charge	Long. 110°50.1' W	B, Z(LP)	300m. thick	Z 1.0	77		50000	Near crit.	30mm/min.		Up
		(SP)	700 m.		0.236		50000		60mm/min.		Up
		B, E		E 1.6	0.5		25000		30mm/min.		W
[2]Tucson Telemeter	Log cos 9.92682	B, Z	Granite	Z 1.1	0.5		150000	Near crit.	60mm/min.	Beginning	Up
C. J. Beers	Lat. 32°20.1' N	Mass 100 lb.									
In Charge	Long. 110°43.4' W										
Ukiah, California	Log cos 9.88968	McC-R, N&E	Alluvium	N 11.9			75	Near crit.	30mm/min.	Beginning	N
L. F. Caouette	Lat. 39°08' N	Mass 10 kg.	180 m. deep.	E 11.6			75				E
In Charge	Long. 123°13' W	W-L, Z	199 m.	Z 1.1	1.4		24000		60mm/min.		Up
*Washington, D. C.	Log cos 9.89117	W-L, Z	Recent allu-	Z 1.5	4.0		10000		30mm/min.	Beginning	Up
	Lat. 38°53'33"N	Visible	vium on		Pen						
	Long. 77°01'59"W	recorder	Schistose		0.5						
			granite. 0 m.								

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

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

B-Benioff Moving Coil, B-VR - Benioff Variable Reluctance, W - Wenner, McC-R - McComb-Romberg, W-A - Wood-Anderson, M-S - Milne-Shaw.
HTL - Houston Technical Laboratory, Spg - Sprengnether, W-L - Wilson-Lamison

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

[2] The Seismometer is about nine miles northeast of the main station. The signal is transmitted by FM-FM radio to the main recorder room where it is recorded photographically.

Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Jan.	h m s	°	°	
1	02 41 11.6	52.2 N.	177.7 E.	Rat Islands, Aleutian Islands. h about 48 km.
1	05 17 37.8	38.7 N.	141.6 E.	Near east coast of Honshu, Japan. h about 33 km.
1	06 49 57.6	52.0 N.	177.6 E.	Rat Islands, Aleutian Islands. h about 33 km.
1	10 17 02.5	51.8 N.	177.6 E.	Rat Islands, Aleutian Islands. h about 33 km.
1	12 15 52.0	27.2 S.	175.2 W.	Kermadec Islands region. h about 33 km.
1	13 24 41.9	6.9 N.	73.0 W.	Colombia. h about 176 km.
1	15 31 11.8	22.4 S.	171.5 E.	Loyalty Islands region. h about 98 km.
1	23 40 23.4	52.2 N.	177.7 E.	Rat Islands, Aleutian Islands. h about 33 km.
2	02 15 29.7	4.1 S.	143.9 E.	Near northeast coast of New Guinea. h about 104 km.
2	05 23 41.5	18.1 S.	70.6 W.	Peru-Chile border region. Felt at Arequipa. h about 77 km.
2	05 52 48.5	20.2 S.	174.7 W.	Tonga Islands. h about 33 km.
2	11 47 30.0	21.9 S.	169.7 E.	Loyalty Islands region. h about 56 km.
2	12 22 58.3	79.7 N.	22.7 E.	Svalbard region. h about 33 km.
2	19 03 06.4	19.2 N.	145.4 E.	Mariana Islands. h about 154 km.
2	23 11 50.7	18.7 N.	60.5 W.	Leeward Islands region. h about 33 km.
3	02 04 59.7	22.1 S.	169.6 E.	Loyalty Islands region. h about 33 km.
3	06 49 45.7	21.6 S.	169.9 E.	Loyalty Islands region. h about 33 km.
3	06 53 16.2	18.7 S.	71.0 W.	Near coast of southern Peru. Felt at Arica. h about 77 km.
3	11 20 55.3	20.6 S.	174.5 W.	Tonga Islands. h about 33 km.
3	11 24 54.1	21.6 S.	170.1 E.	Loyalty Islands region. h about 18 km.
3	11 39 48.5	21.8 S.	169.9 E.	Loyalty Islands region. h about 22 km.
3	13 36 19.3	9.9 S.	159.8 E.	Solomon Islands region. h about 69 km.
3	17 53 05.3	52.2 N.	177.5 E.	Rat Islands, Aleutian Islands. h about 68 km.
3	19 54 00.6	14.1 S.	166.4 E.	New Hebrides Islands. h about 66 km.
3	23 50 27.2	21.5 S.	169.9 E.	Loyalty Islands region. h about 33 km.
4	01 12 43.3	0.1 S.	100.4 E.	Near coast of Sumatra. h about 143 km.
4	04 16 02.6	35.0 N.	139.1 E.	Near south coast of Honshu, Japan. Felt. h about 161 km.
4	04 35 41.3	33.7 N.	135.2 E.	Near east coast of Shikoku, Japan. Felt. h about 43 km. Mag. 6½.
4	07 34 45.6	5.2 S.	130.0 E.	Banda Sea. h about 205 km.
4	20 00 54.4	1.6 S.	99.6 E.	Near coast of Sumatra. h about 59 km.
4	21 24 54.5	24.6 N.	121.9 E.	Near east coast of Formosa. h about 38 km.
5	00 23 32.1	15.5 S.	177.7 W.	Fiji Islands region. h about 24 km. Mag. 6¼.
5	04 27 03.8	36.3 N.	71.4 E.	Hindu Kush. h about 125 km.
5	08 08 06.9	15.1 S.	172.7 W.	Samoa Islands region. h about 33 km. Mag. 6¼.
5	11 51 36.8	15.1 S.	167.4 E.	New Hebrides Islands. Felt on Santo. h about 139 km.

USCOMM-DC 6607-P66

Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Jan.	h m s	°	°	
5	14 01 41.7	1.6 S.	100.0 E.	Near coast of Sumatra. h about 25 km.
5	15 47 48.0	1.5 S.	100.1 E.	Near coast of Sumatra. h about 25 km.
5	23 08 31.0	52.2 N.	177.5 E.	Rat Islands, Aleutian Islands. h about 60 km.
6	07 35 31.1	29.3 S.	70.8 W.	Near coast of central Chile. h about 100 km.
7	01 14 15.6	55.2 N.	153.9 W.	Near Kodiak Islands. h about 33 km.
7	01 30 34.5	52.0 N.	177.8 E.	Rat Islands, Aleutian Islands. h about 55 km.
7	08 40 37.5	27.6 N.	44.0 W.	North Atlantic Ocean. h about 33 km.
7	10 03 14.3	43.3 N.	17.1 E.	Yugoslavia. 2 killed, 19 injured. Moderate damage at Makarska. h about 33 km.
7	13 08 37.2	8.5 S.	125.0 E.	Flores region. h about 45 km.
7	13 18 31.0	8.1 N.	73.7 W.	Colombia. h about 33 km.
7	22 00 34.4	37.7 S.	71.1 W.	Chile-Argentina border region. h about 129 km.
8	01 00 22.7	18.4 N.	70.4 W.	Dominican Republic. 1 killed, 6 injured. Damage at San Jose de Ocoa and Azua. h about 32 km. Mag. 6½.
8	01 34 50.7	18.0 N.	70.6 W.	Dominican Republic. h about 48 km.
8	02 05 21.1	18.5 N.	70.6 W.	Dominican Republic. h about 50 km.
8	05 43 02.2	24.2 S.	177.7 W.	Tonga Islands region. h about 133 km.
8	10 44 22.3	4.1 S.	77.4 W.	Peru. h about 100 km.
8	17 03 16.9	6.2 S.	147.4 E.	Near northeast coast of New Guinea. h about 60 km.
8	22 09 03.3	12.2 N.	85.4 W.	Nicaragua. h about 103 km.
8	22 25 11.1	36.5 N.	70.9 E.	Hindu Kush. h about 208 km.
9	02 09 51.2	18.6 N.	70.6 W.	Dominican Republic. h about 25 km.
9	06 45 16.6	32.6 N.	40.6 W.	North Atlantic Ocean. h about 33 km.
9	12 40 49.3	43.0 N.	144.9 E.	Hokkaido, Japan. h about 53 km.
9	14 53 13.3	24.5 N.	143.1 E.	Volcano Islands. h about 26 km.
9	16 30 00.135			37°02'41" N., 116°02'06" W. Nevada Test Site. STOAT. Shot elevation 923.5 meters (AEC).
9	19 49 33.4	20.1 S.	66.6 E.	Mascarene Islands region. h about 33 km.
9	21 57 28.8	13.0 N.	147.2 E.	Mariana Islands. Felt. h about 57 km.
9	22 13 50.4	48.2 N.	147.4 E.	Sea of Okhotsk. h about 436 km.
9	23 55 49.2	22.2 S.	179.5 W.	Fiji Islands. h about 603 km.
10	01 15 03.0	27.0 N.	128.7 E.	Ryukyu Islands. h about 29 km.
10	02 19 58.3	52.8 N.	169.1 W.	Fox Islands, Aleutian Islands. h about 33 km.
10	02 55 01.2	17.3 S.	68.7 W.	Peru-Bolivia border region. h about 208 km.
10	06 28 40.4	44.3 N.	128.7 W.	Off coast of Oregon. h about 33 km. Mag. 4¾ (Pal).
10	06 33 59.6	44.6 N.	128.7 W.	Off coast of Oregon. h about 33 km.
10	12 36 37.5	36.2 N.	22.6 E.	Off south coast of Greece. h about 107 km.

USCOMM-DC 6497-P69

Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Jan.	h m s	°	°	
11	02 54 14.0	51.5 N.	176.9 E.	Rat Islands, Aleutian Islands. h about 57 km.
11	03 01 31.7	27.9 N.	84.9 E.	Nepal. Felt at Katmandu. h about 39 km.
11	05 05 04.1	43.3 N.	17.1 E.	Yugoslavia. 4 killed, 20 injured. Moderate damage at Podgora, Ploce and Makarska. h about 33 km. Mag. 5¾.
11	06 49 10.6	51.4 N.	179.4 W.	Andreanof Islands, Aleutian Islands. h about 62 km. Mag. 5½ (Pal).
11	23 14 34.3	18.7 S.	174.8 W.	Tonga Islands region. h about 151 km.
12	08 50 26.5	20.3 N.	145.9 E.	Mariana Islands. h about 51 km.
12	09 54 42.8	31.9 S.	70.2 W.	Chile-Argentina border region. h about 24 km.
12	10 55 01.7	52.3 N.	177.7 E.	Rat Islands, Aleutian Islands. h about 33 km.
12	11 16 14.8	34.6 S.	111.9 W.	South Pacific Ocean. h about 33 km.
12	13 38 12.4	42.5 N.	142.8 E.	Hokkaido, Japan. h about 79 km.
12	20 48 32.9	43.0 N.	17.0 E.	Yugoslavia. h about 33 km.
13	00 45 07.8	22.9 S.	69.6 W.	Near coast of northern Chile. h about 102 km.
13	03 04 55.7	19.1 S.	177.6 W.	Fiji Islands. h about 546 km.
13	04 48 36.8	52.2 N.	177.5 E.	Rat Islands, Aleutian Islands. h about 32 km.
13	05 31 03.4	13.8 N.	120.3 E.	Luzon, Philippine Islands. h about 83 km.
13	08 18 18,7	2.9 N.	124.8 E.	Celebes Sea. h about 25 km.
13	11 05 20.1	37.5 S.	178.7 E.	Near coast of North Island, New Zealand. h about 25 km.
13	11 41 10.1	15.1 S.	174.0 W.	Tonga Islands region. h about 25 km.
13	13 01 24.5	43.1 N.	17.3 E.	Yugoslavia. h about 33 km.
14	07 24 47.6	43.1 N.	145.1 E.	Near east coast of Hokkaido, Japan. h about 30 km.
14	08 17 08.1	5.3 S.	129.0 E.	Banda Sea. h about 18 km.
14	09 17 21.7	7.5 S.	158.6 E.	Solomon Islands. h about 49 km.
14	10 37 30.9	10.1 S.	161.0 E.	Solomon Islands. h about 59 km.
14	13 34 09.0	44.5 N.	140.7 E.	Near west coast of Hokkaido, Japan. h about 246 km.
14	18 41 49.5	11.4 S.	166.5 E.	Santa Cruz Islands. h about 229 km.
15	08 22 14.3	13.1 N.	60.4 W.	Windward Islands. Felt at St. Vincent. h about 62 km.
15	18 21 11.1	5.8 S.	146.8 E.	Near coast of New Guinea. Felt at Henganofi, Madang and Lae. h about 102 km.
15	22 16 13.6	31.0 S.	178.1 W.	Kermadec Islands. h about 60 km.
16	11 35 41.3	30.5 S.	177.9 W.	Kermadec Islands. Felt on Raoul Islands. h about 39 km. Mag. 6½.
16	15 15 01.9	22.2 S.	114.5 W.	Easter Islands region. h about 25 km.
16	16 06 52.1	2.7 S.	129.8 E.	Ceram. h about 100 km.
16	16 51 25.4	36.3 N.	70.5 E.	Hindu Kush. h about 221 km.
16	18 17 29.7	7.8 N.	36.0 W.	Mid-Atlantic Ocean. h about 30 km.
17	11 30 28.9	20.8 S.	178.5 W.	Fiji Islands. h about 571 km.
17	13 19 29.9	8.8 S.	126.4 E.	Timor. h about 33 km.

USCOMM-DC 6607-P66

Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Jan.	h m s	°	°	
17	15 29 20.7	3.6 N.	126.7 E.	Molucca Passage. h about 63 km.
17	15 43 18.9	3.5 N.	126.6 E.	Molucca Passage. h about 80 km.
17	23 34 07.2	11.9 N.	86.3 W.	Nicaragua. h about 97 km.
18	08 16 35.8	21.7 S.	178.1 W.	Fiji Islands. h about 561 km.
18	15 42 28.2	5.3 S.	153.7 E.	New Britain region. h about 52 km.
18	15 45 47.5	5.4 S.	153.6 E.	New Britain region. h about 47 km.
18	18 00 00.133			37°02'50" N., 116°02'04" W. Nevada Test Site. AGOUTI. Shot elevation = 861.7 meters (AEC).
18	21 59 44.1	4.4 S.	129.5 E.	Banda Sea. h about 21 km.
19	06 01 09.5	51.5 N.	161.1 E.	Off southeast coast of Kamchatka. h about 29 km.
19	10 27 20.1	3.3 N.	78.2 W.	Near coast of Colombia. h about 90 km.
19	13 22 37.0	21.5 S.	174.6 W.	Tonga Islands. h about 25 km.
19	19 38 04.1	38.5 N.	22.1 E.	Greece. Felt in western and central Greece. h about 38 km.
19	20 43 26.8	10.5 N.	122.2 E.	Negros, Philippine Islands. h about 79 km.
19	21 18 58.5	2.9 S.	139.0 E.	Near north coast of New Guinea. h about 76 km.
19	22 07 48.5	49.6 S.	163.2 E.	Macquarie Islands region. h about 33 km.
19	22 18 26.7	38.4 N.	22.2 E.	Greece. Felt in western and central Greece. h about 46 km.
20	03 31 24.6	31.2 N.	48.9 E.	Iran. h about 33 km.
20	20 14 33.9	6.5 S.	152.0 E.	New Britain region. h about 33 km.
21	02 51 34.8	43.0 N.	16.9 E.	Yugoslavia. Slight damage at Makarska. h about 33 km.
21	12 51 52.1	17.7 S.	178.8 W.	Fiji Islands. h about 558 km.
21	17 53 29.2	42.8 N.	144.5 E.	Near east coast of Hokkaido, Japan.
22	07 26 43.5	52.4 N.	100.3 E.	Lake Baikal region. h about 33 km.
22	09 59 32.0	11.4 N.	125.4 E.	Leyte, Philippine Islands. h about 125 km.
22	20 22 17.6	30.7 N.	80.6 E.	Tibet-India border. h about 25 km.
22	21 30 19.5	4.5 S.	152.8 E.	New Britain. Felt at Rabaul. h about 66 km.
23	15 59 27.4	52.8 N.	169.0 W.	Fox Islands, Aleutian Islands. h about 65 km.
23	17 31 38.7	44.5 N.	12.4 E.	Veneto Province, Italy. Felt at Rimini, Ancone and Trieste. h about 30 km.
24	03 01 19.2	21.6 S.	66.7 W.	Southern Bolivia. h about 219 km.
24	04 46 29.3	15.6 S.	167.6 E.	New Hebrides Islands. Felt on Lamap and Santo. h about 137 km.
24	05 28 54.1	59.2 N.	154.8 W.	Alaska Peninsula. h about 25 km.
24	14 32 33.2	15.6 N.	95.9 W.	Oaxaca, Mexico. h about 41 km.
24	15 39 48.9	24.7 N.	121.8 E.	Near northeast coast of Formosa. h about 72 km.
24	17 43 51.9	1.1 N.	126.0 E.	Molucca Passage. h about 33 km.
25	00 29 32.0	55.1 N.	157.2 W.	Shumagin Islands region. h about 33 km.
25	01 50 08.7	10.7 S.	161.8 E.	Solomon Islands. h about 33 km.

Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Jan.	h m s	°	°	
25	07 26 04.6	15.7 S.	69.6 W.	Bolivia. h about 190 km.
25	09 25 20.6	12.3 N.	141.9 E.	Mariana Islands region. h about 51 km.
25	10 03 06.8	4.6 S.	152.6 W.	Line Islands region. h about 33 km.
25	12 14 57.6	23.2 S.	179.9 E.	Fiji Islands. h about 574 km.
25	22 36 16.2	18.5 S.	177.9 W.	Fiji Islands. h about 620 km.
26	05 22 51.0	32.2 N.	138.1 E.	South of Honshu, Japan. h about 333 km.
26	06 09 33.0	23.4 S.	176.1 W.	Tonga Islands region. h about 214 km.
26	08 17 39.9	35.4 N.	22.7 E.	Crete region. h about 33 km. Mag. 5-5¼ (Pal).
26	11 48 21.2	35.6 S.	179.4 E.	Off northeast coast of North Island, New Zealand. h about 60 km.
26	14 34 45.7	36.9 S.	88.9 W.	Off coast of Chile. h about 60 km.
26	18 40 23.0	10.3 N.	90.6 W.	South of Guatemala. h about 45 km.
27	20 27 53.4	4.6 S.	144.5 E.	New Guinea. h about 51 km.
27	22 02 33.1	44.6 N.	130.5 W.	Off coast of Oregon. h about 25 km.
27	23 07 48.9	31.4 N.	114.2 W.	Gulf of California. h about 36 km. Mag. 5.3.
27	23 26 14.2	31.2 N.	114.4 W.	Gulf of California. h about 39 km. Mag. 4.6.
27	23 51 06.0	21.5 S.	170.5 E.	Loyalty Islands region. h about 160 km.
28	03 54 10.0	4.3 S.	143.9 E.	Near northeast coast of New Guinea. h about 60 km.
28	05 22 43.6	13.5 N.	92.1 W.	Off coast of Guatemala. h about 52 km.
28	05 40 08.2	17.2 S.	172.0 W.	Samoa Islands region. Felt at Apia. h about 25 km. Mag. 6¼.
28	08 02 01.9	51.3 N.	176.4 E.	Rat Islands, Aleutian Islands. h about 33 km.
28	11 40 58.0	44.8 N.	112.5 W.	Southwestern Montana. h about 39 km.
28	16 41 13.3	0.1 S.	123.9 E.	Celebes region. h about 101 km.
29	04 56 44.1	22.1 S.	175.4 W.	Tonga Islands. h about 33 km.
29	06 07 22.0	9.3 S.	79.1 W.	Near coast of Peru. h about 100 km.
29	11 43 06.7	9.1 S.	157.7 E.	Solomon Islands. h about 63 km.
29	13 25 03.8	12.5 S.	165.1 E.	Santa Cruz Islands. h about 100 km.
29	21 07 57.4	15.4 S.	172.7 W.	Tonga Islands region. h about 25 km.
30	06 59 36.9	54.5 N.	158.9 E.	Near east coast of Kamchatka. h about 76 km.
30	08 34 23.9	12.7 N.	87.5 W.	Near west coast of Nicaragua. Felt at Managua. h about 49 km. Mag. 4¾-5 (Pal).
30	13 51 27.7	5.3 S.	146.8 E.	Near northeast coast of New Guinea. h about 162 km.
30	15 01 12.4	16.2 S.	176.0 W.	Fiji Islands. h about 383 km.
30	15 22 49.4	20.7 N.	144.5 E.	Mariana Islands region. h about 187 km.
30	17 15 29.4	78.9 N.	125.8 E.	Laptev Sea. h about 33 km.
30	18 00 00.128			37°02'49" N., 116°02'22" W. Nevada Test Site. DORMOUS. Shot elevation = 864.3 meters (AEC).

USCOMM-DC 8407-P88

Date	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Jan.	h m s	°	°	
30	18 30 52.3	18.8 S.	168.5 E.	New Hebrides Islands. Felt at Port Vila. h about 79 km.
31	00 05 58.4	38.4 N.	70.1 E.	Tadzhik S.S.R. h about 73 km.
31	03 46 49.0	17.6 S.	168.0 E.	New Hebrides Islands. h about 46 km.

Date and Station		Phase	(GCT) h m s
Jan. 1			
COL		iP	00 19 44
EUR		iP	00 23 18
Jan. 1			
EUR		eP	00 38 04
Jan. 1			
EUR		eP	01 54 29
Jan. 1			
ALQ		eP	02 50 39
BCN		e(P)	02 49 57
COL		iP	02 45 59
		eS	50 10
EUR		iP	02 49 34
		ipP	49 43
		isP	49 54
		eS	55 02
FGU		eP	02 49 56
GCA		eP	02 50 06
HHM		iP	02 49 02
RCD		eP	02 50 08
SJP		iP	02 54 10
THU		eP	02 49 24
Jan. 1			
EUR		e(P)	04 16 13
Jan. 1			
COL		e(PP)	04 55 11
EUR		eP	04 51 41
Jan. 1			
EUR		eP	05 21 21
Jan. 1			
COL		eP	05 26 13
EUR		eP	05 29 15
		i	29 30
HHM		e(P)	05 28 51
THU		eP	05 28 09
Jan. 1			
HHM		e(P)	06 22 36
Jan. 1			
COL		eP	06 29 34
Jan. 1			
ALQ		eP	06 59 28
BCN		eP	06 58 46
COL		iP	06 54 48
EUR		iP	06 58 23
		i	58 40
		iPP	59 59
HHM		e(P)	06 57 51
THU		eP	06 58 13
Jan. 1			
EUR		eP	07 44 17
Jan. 1			
COL		eP	08 33 00
EUR		iP	08 32 31
Jan. 1			
ALQ		eP	10 26 34
COL		iP	10 21 55
EUR		iP	10 25 27
FGU		eP	10 25 50
HHM		e(P)	10 24 56
THU		eP	10 25 21
Jan. 1			
COL		e(P)	11 27 24
EUR		eP	11 30 56
Jan. 1			
EUR		i(P)	11 56 15
Jan. 1			
BCN		eP	12 28 26
BUT		e(P)	12 29 01
COL		iP	12 29 08
EUR		eP	12 28 32
		i	28 43
GCA		eP	12 28 38
Jan. 1			
COL		e(P)	13 11 42
Jan. 1			
COL		eP	13 36 20
EUR		eP	13 33 24
Jan. 1			
COL		eP	14 04 41
EUR		eP	14 08 34
Jan. 1			
EUR		eP	14 21 17
Jan. 1			
EUR		eP	14 50 44
Jan. 1			
COL		eP	15 02 29
EUR		iP	15 05 59
Jan. 1			
BCN		eP	15 44 05
COL		iP	15 44 10
EUR		iP	15 44 08
		ipP	44 37
		isP	44 46
TUC		eP	15 44 12
Jan. 1			
COL		eP	16 05 58
EUR		iP	16 09 33
UKI		iP	16 06 03
Jan. 1			
COL		iP	16 24 08
EUR		iP	16 27 44
Jan. 1			
EUR		eP	16 48 29
Jan. 1			
BCN		eP	17 23 16
EUR		eP	17 22 24
		i	23 59
HHM		iP	17 23 49
Jan. 1			
EUR		eP	19 35 21
Jan. 1			
ALQ		eP	20 27 37
		e	28 28
Jan. 1			
COL		eP	22 23 37
EUR		eP	22 27 08
Jan. 1			
ALQ		eP	23 49 53
BCN		eP	23 49 11
BUT		eP	23 48 35
COL		iP	23 45 12
		iPP	45 35
		i	45 54
		iS	49 15
EUR		eP	23 48 47
		i	49 21
FGU		eP	23 49 12
HON		iP	23 47 26
HHM		iP	23 48 15
RCD		eP	23 49 22
		e	49 26
KIP		eP	23 47 24
SLC		eP	23 49 01
SJP		iP	23 53 29
THU		eP	23 48 39
TUC		iP	23 49 48
Jan. 2			
FGU		eP	00 49 33
		eS	49 59
Jan. 2			
EUR		iP	01 14 49
Jan. 2			
COL		eP	02 27 05
SJP		eP'	02 35 03
		e(pP')	35 25
Jan. 2			
EUR		eP	04 26 35
Jan. 2			
ALQ		iP	05 34 02
BCN		eP	05 34 37
BOZ		eP	05 35 07
BUT		eP	05 35 23
COL		iP	05 34 51
EUR		iP	05 34 56
		ipP	35 16
		i(PcP)	35 44
FGU		eP	05 34 41
GCA		eP	05 34 30
GUA		iP'	05 43 16
		i	43 26
		ePP	46 20
HHM		i(P)	05 35 27
RCD		iP	05 34 39
		i	34 46
		ipP	34 56
SLC		eP	05 34 49
SJP		eP	05 30 38
TUC		iP	05 34 04
		ipP	34 21
TUT		iP	05 34 04
Jan. 2			
ALQ		eP	06 05 21
COL		iP	06 05 35

B-4297-4

Date and Station		Phase (GCT)
		h m s
EUR	eP	06 05 01
GCA	e(P)	06 05 00
TUC	e(P)	06 04 59
Jan. 2		
EUR	eP	06 39 47
Jan. 2		
EUR	eP	06 49 09
Jan. 2		
ALQ	eP	08 15 06
BCN	eP	08 14 27
EUR	eP	08 14 53
GCA	e(P)	08 14 15
Jan. 2		
ALQ	eP	08 25 22
BCN	eP	08 25 14
EUR	e(P)	08 27 26
	eL	29 38
FGU	e(P)	08 28 29
Jan. 2		
COL	iP	09 44 31
UKI	iP	09 43 05
Jan. 2		
EUR	iP	10 24 08
Jan. 2		
ALQ	eP	10 42 43
BCN	eP	10 42 20
EUR	eP	10 42 53
	eL	45 20
GCA	e(P)	10 42 11
TUT	e(P)	10 41 38
Jan. 2		
COL	e(P)	12 00 28
	e	00 54
	iPP	04 57
EUR	e(P)	12 00 38
	i	00 57
Jan. 2		
ALQ	eP	12 33 18
BCN	eP	12 33 20
BOZ	eP	12 32 07
BUT	eP	12 32 06

Date and Station		Phase (GCT)
		h m s
COL	iP	12 29 52
	ipP	30 15
	isP	31 30
	i	31 55
EUR	iP	12 32 56
FGU	eP	12 32 41
GCA	eP	12 33 09
HHM	iP	12 31 49
RCD	eP	12 32 12
	ipP	32 30
SLC	eP	12 33 42
THU	eP	12 26 59
TUC	eP	12 33 39
TUT	iP	12 33 40
Jan. 2		
ALQ	eP	13 05 07
EUR	eP	13 06 17
GCA	eP	13 05 32
Jan. 2		
EUR	eP	13 23 09
Jan. 2		
COL	i(P)	14 10 12
Jan. 2		
BOZ	eP	15 14 20
HHM	e(P)	15 15 53
Jan. 2		
ALQ	eP	16 10 54
BCN	eP	16 10 27
COL	e(P)	16 14 13
EUR	eP	16 10 39
GCA	eP	16 10 18
TUT	e(P)	16 09 21
	i	10 10
Jan. 2		
BCN	eP	16 38 12
Jan. 2		
COL	eP	17 04 54
EUR	iP	17 08 26
Jan. 2		
HHM	i(P)	17 43 50
Jan. 2		
ALQ	eP	19 16 05
	iPP	20 01

Date and Station		Phase (GCT)
		h m s
COL	iP	19 13 18
	i	13 33
EUR	iP	19 15 23
	e	20 37
FGU	eP	19 15 43
GCA	eP	19 15 44
GUA	eP	19 04 29
	eS	05 37
HHM	iP	19 15 15
Jan. 2		
HHM	i(P)	20 42 23
Jan. 2		
HHM	e(P)	21 53 37
Jan. 2		
ALQ	eP	22 19 43
EUR	eP	22 19 49
Jan. 2		
COL	eP	23 22 08
	ePcP	23 10
	iPP	23 29
	ePPP	26 26
EUR	eP	23 20 57
TUC	eP	23 21 28
Jan. 3		
ALQ	eP	01 01 44
COL	eP	01 01 39
	e	04 03
FGU	eP	01 01 46
Jan. 3		
COL	iP	07 01 03
	ipP	02 52
EUR	eP	07 02 52
TUC	e(P)	07 02 58
Jan. 3		
ALQ	eP	07 03 37
EUR	eP	07 04 32
FGU	eP	07 04 17
HHM	eP	07 05 01
RCD	iP	07 04 11
SJP	eP	07 00 18
TUC	eP	07 03 40
Jan. 3		
BOZ	eP	07 44 21

Date and Station		Phase (GCT)
		h m s
BUT	eP	07 44 37
COL	e(P)	07 48 51
	e	50 06
	e	53 09
EUR	eP	07 45 44
HHM	eP	07 45 21
RCD	e(P)	07 45 23
	e	45 41
Jan. 3		
COL	iP	08 13 53
EUR	eP	08 17 27
Jan. 3		
COL	iP	08 32 12
	i	33 52
	i	34 29
Jan. 3		
EUR	eP	08 58 26
SJP	eP	08 54 08
Jan. 3		
ALQ	eP	09 17 36
BCN	eP	09 17 02
EUR	eP	09 16 37
FGU	e(P)	09 16 55
RCD	eP	09 17 05
TUC	eP	09 17 36
Jan. 3		
COL	eP	10 01 51
EUR	eP	10 05 26
Jan. 3		
ALQ	eP	10 25 58
COL	iP	10 21 01
	i	21 10
	i	21 34
	i	21 43
EUR	iP	10 25 00
Jan. 3		
ALQ	iP	11 33 30
BCN	eP	11 32 57
COL	iP	11 33 42
	i	33 56
	ePP	38 01
EUR	eP	11 33 09
	ePP	38 04

8-4297-4

Date and Station		Phase	(GCT)
			h m s
FGU		eP	11 33 34
GCA		eP	11 33 18
TUC		e(P)	11 33 06
Jan. 3			
COL		eP	11 52 57
EUR		eP	11 52 57
Jan. 3			
COL		iP	13 14 14
		i	14 36
		ePKKP	31 04
EUR		eP	13 17 47
Jan. 3			
COL		iP	13 48 42
		ipP	49 02
EUR		iP	13 49 23
Jan. 3			
COL		iP	14 59 02
Jan. 3			
EUR		e(P)	16 25 05
Jan. 3			
ALQ		eP	17 40 02
		eS	40 44
COL		iP	17 45 07
		i	45 48
EUR		e(P)	17 40 42
GCA		eP	17 40 27
		eS	41 20
ALQ		eP	18 02 35
BCN		eP	18 01 48
COL		eP	17 59 00
		ePcP	18 02 05
EUR		iP	18 01 29
		iPP	03 24
		iPPP	04 24
GCA		(eP)	18 02 01
HHM		iP	18 03 30
RCD		eP	18 02 12
		ipP	02 46
SJP		e(P)	18 05 36
TUC		eP	18 02 31
Jan. 3			
FGU		eP	19 08 37
		eS	09 08

Date and Station		Phase	(GCT)
			h m s
Jan. 3			
EUR		iP	19 30 36
Jan. 3			
COL		iP	20 06 35
		i	06 52
EUR		e(P)	20 07 09
Jan. 3			
COL		iP	20 58 28
		i	58 50
Jan. 3			
EUR		iP	21 01 44
		i	02 05
GCA		e(P)	21 02 09
HHM		iP	21 01 16
Jan. 3			
ALQ		iP	23 30 30
Jan. 4			
COL		eP	00 03 31
		i	03 36
		i	03 46
EUR		e(P)	00 03 35
SJP		eP'	00 09 30
Jan. 4			
EUR		eP'	01 31 39
Jan. 4			
COL		iP	02 20 00
Jan. 4			
ALQ		eP	04 28 34
		epP	29 08
BCN		eP	04 28 05
COL		iP	04 24 55
		iS	31 24
EUR		iP	04 27 48
FGU		eP	04 28 05
GCA		eP	04 28 10
HHM		iP	04 27 26
RCD		iP	04 28 12
TUC		eP	04 28 29
Jan. 4			
ALQ		eP	04 48 42
		ipP	48 54
		isP	49 08
		ePP	52 14
		ePPP	54 17
		eSKS	59 06
		eS	59 32
BCN		eP	04 48 13

Date and Station		Phase	(GCT)
			h m s
BOZ		eP	04 47 55
BUT		iP	04 47 48
COL		iP	04 45 07
		ipP	45 27
		iPcP	46 05
		eS	52 45
EUR		iP	04 47 58
		ipP	48 11
		isP	48 28
		iPP	50 57
		isPP	51 05
		iScP	53 25
FGU		eP	04 48 03
GCA		eP	04 48 20
GUA		eP	04 40 34
		eS	44 35
		eT	05 02 29
HON		iP	04 45 43
HHM		iP	04 47 35
		epP	47 46
KIP		iP	04 45 43
RCD		eP	04 48 20
		ipP	48 33
		ePP	51 43
SJP		eP'	04 54 49
		ePP	56 22
SIT		e(P)	04 46 02
TUC		iP	04 48 38
		ipP	48 50
		ePP	52 07
		ipPP	52 19
		e(PPP)	54 14
TUT		iP	04 48 38
		ePP	52 20
Jan. 4			
EUR		iP	05 11 16
Jan. 4			
COL		eP	07 18 39
		i	19 51
EUR		eP	07 23 26
Jan. 4			
COL		eP	07 47 27
EUR		e(P)	07 52 58
GUA		eP	07 39 40
SJP		eP'	07 54 21
		ipP	55 00
		iPP	55 53

Date and Station		Phase	(GCT)
			h m s
Jan. 4			
EUR		iP	10 33 20
Jan. 4			
ALQ		e(P)	10 56 02
Jan. 4			
COL		iP	12 09 47
EUR		e(P)	12 13 14
Jan. 4			
EUR		e(P)	12 23 23
Jan. 4			
FGU		eP	12 33 35
		eS	34 00
Jan. 4			
HHM		e(P)	12 57 13
Jan. 4			
THU		eP	13 24 25
Jan. 4			
EUR		iP	15 34 20
UKI		eP	15 33 20
Jan. 4			
COL		iP	16 36 15
Jan. 4			
FGU		eP	18 16 56
		eS	17 17
Jan. 4			
COL		eP	19 48 48
		i	49 06
		i	50 20
Jan. 4			
EUR		eP'	20 20 05
Jan. 4			
COL		eP	21 35 50
EUR		e(P)	21 38 26
HHM		iP	21 38 03
Jan. 4			
EUR		eP	22 22 21
FGU		eP	22 34 20
Jan. 4			
EUR		eP	22 46 46
Jan. 5			
COL		e(P)	00 08 07
EUR		eP	00 11 38
Jan. 5			
ALQ		eP	00 36 04
BCN		eP	00 35 35

Date and Station		Phase (GCT) h m s
BOZ	eP	00 36 12
BUT	eP	00 36 08
COL	iP	00 35 56
	ipP	36 18
	i	37 04
EUR	eP	00 35 39
	ePKKP	52 42
FGU	eP	00 36 08
GCA	eP	00 35 48
HHM	i(P)	00 35 50
RCD	eP	00 36 34
TUC	eP	00 35 40
	i	35 43
	i(pP)	35 53
	e	36 37
TUT	iP	00 35 43
Jan. 5		
EUR	eP	01 39 45
Jan. 5		
COL	iP	04 25 26
	iP'	29 26
EUR	eP	04 26 09
	e	26 18
	eP'	29 15
FGU	eP'	04 29 38
GCA	eP'	04 29 21
TUC	eP'	04 29 16
Jan. 5		
COL	iP	04 38 30
	i	39 07
THU	eP	04 37 34
	epP	38 05
Jan. 5		
COL	iP	04 51 29
	ipP	51 51
EUR	e(P)	04 51 11
FGU	eP	04 51 39
Jan. 5		
BOZ	eP	05 17 41
EUR	iP	05 22 58
HHM	e(P)	05 18 35
UKI	e(P)	05 21 53
Jan. 5		
EUR	eP	05 38 59

Date and Station		Phase (GCT) h m s
FGU	eP	05 38 20
	e	39 44
Jan. 5		
UKI	eP	06 24 49
Jan. 5		
EUR	eP	06 49 22
UKI	eP	06 51 27
Jan. 5		
BCN	eP	08 19 46
BOZ	eP	08 20 28
BUT	eP	08 20 25
Jan. 5		
COL	iP	08 20 26
	i	20 48
EUR	eP	08 19 52
	e	29 12
FGU	eP	08 20 20
GCA	eP	08 20 02
HHM	e(P)	08 20 30
KIP	eP	08 15 36
TUT	iP	08 19 52
Jan. 5		
BCN	eP	09 16 20
COL	eP	09 20 52
EUR	eP	09 17 03
	eL	19 04
FGU	e(P)	09 17 41
	e	20 24
GCA	eP	09 16 28
Jan. 5		
COL	eP	10 49 09
	i	49 22
	i	49 32
Jan. 5		
COL	eP	12 04 05
	ipP	04 38
EUR	eP	12 04 19
	epP	04 55
Jan. 5		
COL	eP	13 05 53
Jan. 5		
COL	iP	13 19 46
Jan. 5		
COL	iP	13 37 29
	i	37 50

Date and Station		Phase (GCT) h m s
EUR	iP	13 40 49
	i	41 13
Jan. 5		
BCN	eP	13 42 41
BOZ	eP	13 44 04
BUT	eP	13 44 07
COL	eP	13 47 38
EUR	iP	13 43 18
FGU	eP	13 43 18
GCA	eP	13 42 41
HHM	iP	13 44 31
RCD	e(P)	13 43 17
	e	43 50
TUC	iP	13 41 43
	e	42 07
	e	42 25
TUT	iP	13 41 43
Jan. 5		
COL	eP	14 16 07
	iP'	21 54
EUR	eP'	14 20 54
	ePP	24 13
FGU	e(P)	14 20 58
	ePP	24 24
Jan. 5		
COL	e(P)	15 47 22
Jan. 5		
EUR	eP'	16 06 59
Jan. 5		
ALQ	eP	18 20 21
	i	21 02
Jan. 5		
COL	iP	18 51 57
Jan. 5		
HHM	i(P)	19 17 05
Jan. 5		
BOZ	eP	20 59 06
Jan. 5		
FGU	eP	22 25 26
	eS	25 59
Jan. 5		
THU	iP	22 51 34
Jan. 5		
COL	iP	23 13 19
	ipP	13 37
	iPP	14 19
	i	14 45

Date and Station		Phase (GCT) h m s
EUR	iP	23 16 54
HHM	e(P)	23 16 22
Jan. 5		
FGU	eP	23 44 16
	e(S)	44 25
Jan. 6		
COL	eP	01 11 41
EUR	e(P)	01 10 19
Jan. 6		
EUR	eP	02 52 34
Jan. 6		
COL	iP	04 19 45
	i	20 10
Jan. 6		
COL	eP	07 10 55
	e	16 12
Jan. 6		
ALQ	eP	07 46 47
EUR	iP	07 47 32
FGU	eP	07 47 23
GCA	e(P)	07 47 11
Jan. 6		
EUR	iP	14 35 02
Jan. 6		
COL	iP	15 04 04
	i	04 16
	i	04 49
EUR	e(P)	15 03 41
GCA	eP	15 03 12
	e	03 29
Jan. 6		
COL	eP	17 11 16
	e	11 39
EUR	eP	17 15 15
Jan. 6		
HHM	e(P)	18 00 21
Jan. 6		
COL	eP	21 03 26
Jan. 6		
BCN	eP	21 18 39
Jan. 6		
EUR	e(P)	22 35 51
Jan. 7		
ALQ	eP	01 21 34
BCN	eP	01 20 47

Date and Station		Phase (GCT) h m s
Jan. 7		
COL	iP	01 16 41
	iPP	18 07
	iPPP	18 34
	iPcP	19 35
EUR	iP	01 20 20
	i	20 38
FGU	eP	01 20 44
GCA	eP	01 20 57
HHM	iP	01 19 42
SJP	i(P)	01 25 50
THU	iP	01 21 19
TUC	eP	01 21 30
Jan. 7		
BCN	eP	01 39 22
COL	iP	01 35 24
	iPP	35 50
	i	36 36
EUR	iP	01 38 59
	i	40 37
HHM	e(P)	01 38 28
THU	eP	01 38 48
TUC	e(P)	01 40 00
Jan. 7		
COL	iP	02 44 16
Jan. 7		
COL	e(P)	03 16 13
Jan. 7		
BOZ	iP	05 37 47
EUR	e(P)	05 39 10
	eL	40 56
FGU	eP	05 38 43
HHM	e(P)	05 38 49
Jan. 7		
ALQ	eP	08 48 52
BCN	eP	08 50 43
BOZ	e(P)	08 50 09
COL	iP	08 51 56
	i	52 17
EUR	iP	08 50 43
	i	57 31
RCD	eP	08 49 30
FGU	eP	08 50 06
SLC	eP	08 50 19
SJP	iP	08 45 34
TUC	eP	08 50 27
TUT	iP	08 50 22
Jan. 7		
ALQ	eP	10 15 59
BCN	eP	10 16 12
BOZ	iP	10 15 21
BUT	eP	10 15 25
COL	iP	10 14 33
	i	15 21
	iPP	17 03
	i	29 39
	iPKKP	32 41
EUR	iP	10 16 00
FGU	eP	10 15 39
GCA	e(P)	10 15 36
	e	16 03
HHM	iP	10 15 17
RCD	eP	10 15 11
	i	15 23
SLC	eP	10 16 46
SJP	e(P)	10 14 50
	i	15 24
THU	eP	10 11 46
TUC	eP	10 16 18
TUT	eP	10 16 12
Jan. 7		
EUR	eP	13 05 22
Jan. 7		
EUR	eP	13 27 16
TUC	eP	13 26 21
Jan. 7		
COL	iP	15 06 56
	i	07 37
	i	08 06
	e	09 34
EUR	eP	15 10 31
Jan. 7		
COL	iP	16 52 11
EUR	eP	16 48 38
FGU	eP	16 48 15
	e	48 22
HHM	iP	16 49 19
	i	51 04
RCD	eP	16 48 16
Jan. 7		
ALQ	eP	17 45 40
	i	45 49
GCA	e(P)	17 46 07
	eS	47 06
Jan. 7		
COL	e(P)	18 18 42
EUR	eP	18 20 11
HHM	e(P)	18 19 29
Jan. 7		
COL	iP	19 14 47
EUR	eP	19 18 17
Jan. 7		
COL	iP	19 35 56
	i	36 14
EUR	e(P)	19 37 24
HHM	iP	19 36 41
Jan. 7		
ALQ	eP	20 27 35
Jan. 7		
ALQ	eP	22 12 23
EUR	eP	22 13 04
	ipP	13 28
RCD	e(P)	22 13 09
	epP	13 24
FGU	eP	22 13 02
GCA	e(P)	22 12 50
TUT	eP	22 12 37
Jan. 7		
BUT	iP	23 23 08
EUR	eP	23 24 11
	eL	25 29
HHM	eP	23 23 40
	iS	24 39
Jan. 7		
BUT	iP	23 26 55
EUR	eP	23 27 58
	eL	29 16
FGU	eP	23 27 43
	eS	28 47
HHM	e(P)	23 27 26
	i(S)	28 26
Jan. 8		
HHM	iP	00 12 27
Jan. 8		
ALQ	eP	01 07 22
	i	07 35
	iPP	08 38
	eS	12 38
	iScS	17 39
BCN	eP	01 08 21
BOZ	iP	01 08 23
BUT	eP	01 08 32
COL	eP	01 11 18
	i	11 21
	i	11 35
	iPP	13 45
	iPPP	15 24
	iS	20 22
	ePKKP	28 21
CSC	eP	01 04 34
EUR	eP	01 08 33
	iPP	10 34
FGU	eP	01 07 57
	i	08 07
	ePP	09 40
GCA	eP	01 08 01
	ePP	10 00
HHM	iP	01 08 45
	e	08 57
	i	12 49
RCD	eP	01 07 23
SLC	eP	01 08 12
SIT	iP	01 10 39
SJP	iP	01 01 25
	iS	02 12
THU	iP	01 10 17
TUC	iP	01 07 48
	e	08 15
	ePP	09 35
	eS	13 52
	iScS	17 58
TUT	iP	01 07 47
UKI	eP	01 09 08
WAS	iP	01 05 05
	i	05 32
	iS	08 26
Jan. 8		
SJP	iP	01 18 19
	iS	19 07
Jan. 8		
COL	eP	01 45 48

B 4297-4

Date and Station		Phase (GCT)
		h m s
EUR	eP	01 43 02
HHM	iP	01 43 16
SJP	iP	01 35 54
Jan. 8		
ALQ	eP	02 12 20
BUT	eP	02 13 30
COL	iP	02 16 18
CSC	eP	02 09 31
EUR	eP	02 13 31
	i	13 40
FGU	eP	02 12 55
GCA	eP	02 13 08
HHM	iP	02 13 44
SJP	iP	02 06 23
	iS	07 09
THU	eP	02 15 12
Jan. 8		
COL	eP	02 49 35
	i	49 52
Jan. 8		
EUR	iP	03 50 30
Jan. 8		
COL	iP	05 04 09
	i	04 43
	i	05 40
EUR	iP	05 07 43
SJP	iP	05 11 13
	iS	12 09
TUC	eP	05 08 43
Jan. 8		
ALQ	iP	05 55 50
	ipP	56 30
BUT	ePP	05 59 36
COL	iP	05 55 59
	ipP	56 18
	ePP	59 30
EUR	iP	05 55 31
	ipP	56 12
	ePP	58 50
FGU	eP	05 55 54
GCA	eP	05 55 38
HHM	e(P)	05 56 00
THU	iP'	06 01 38

Date and Station		Phase (GCT)
		h m s
TUC	iP	05 55 29
	e	55 37
TUT	iP	05 55 29
	ipP	56 11
Jan. 8		
COL	eP	07 20 34
Jan. 8		
COL	eP	07 40 05
	e	40 33
EUR	iP	07 43 28
Jan. 8		
BOZ	eP	09 41 21
EUR	eP	09 40 44
SJP	iP	09 39 33
	iS	40 20
Jan. 8		
ALQ	iP	10 52 50
COL	iP	10 56 50
EUR	iP	10 53 55
FGU	eP	10 53 34
SJP	e(P)	10 49 19
THU	iP	10 56 25
TUC	eP	10 52 57
Jan. 8		
COL	eP	12 16 09
EUR	eP	12 19 43
Jan. 8		
COL	eP	15 28 52
	e	32 38
Jan. 8		
COL	iP	17 15 46
	i	16 38
EUR	eP	17 16 55
GUA	iP	17 07 47
SJP	eP'	17 22 49
	e	23 23
Jan. 8		
EUR	e(P)	18 30 53
Jan. 8		
SJP	iP	18 43 34
	iS	44 21
Jan. 8		
COL	e(P)	20 04 09
	e	04 30
Jan. 8		
EUR	e(P)	20 24 22

Date and Station		Phase (GCT)
		h m s
Jan. 8		
COL	eP	21 17 43
	e	18 31
Jan. 8		
FGU	eP	21 42 21
	eS	42 54
Jan. 8		
ALQ	iP	22 15 02
COL	eP	22 19 49
	epP	20 08
EUR	eP	22 16 15
	ePcP	18 29
FGU	eP	22 15 53
HHM	iP	22 16 57
	iPP	18 44
SJP	e(P)	22 10 52
	e(S)	11 19
Jan. 8		
COL	iP	22 36 28
	iPcP	36 46
	ipP	37 19
	isP	37 40
	e(P')	42 33
EUR	e(P')	22 42 45
	ePKKP	54 39
THU	iP	22 35 28
Jan. 9		
COL	eP	00 05 20
	i	05 49
Jan. 9		
COL	eP	00 36 52
	e	37 10
Jan. 9		
FGU	eP	01 20 26
	eS	20 59
Jan. 9		
COL	eP	01 44 29
HHM	e(P)	01 40 55
Jan. 9		
COL	eP	02 20 50
EUR	eP	02 18 06
FGU	eP	02 17 29
HHM	e(P)	02 18 17
SJP	iP	02 10 56
	iS	11 44
Jan. 9		
FGU	e(P)	02 45 21
	eS	45 49
Jan. 9		
COL	eP	03 45 40
	e	46 03

Date and Station		Phase (GCT)
		h m s
EUR	iP	03 46 17
Jan. 9		
COL	iP	05 41 14
Jan. 9		
BOZ	e(P)	06 54 43
EUR	eP	06 55 20
	ePcP	56 08
FGU	e(P)	06 54 43
GCA	e(P)	06 55 05
HHM	e(P)	06 54 52
RCD	e(P)	06 54 10
TUC	eP	06 55 10
Jan. 9		
COL	eP	10 10 40
Jan. 9		
SJP	iP	10 28 43
	iS	29 31
Jan. 9		
EUR	eP	11 49 45
Jan. 9		
ALQ	iP	12 52 49
	epP	53 02
	e	13 03 33
BCN	eP	12 52 17
BOZ	eP	12 51 50
BUT	eP	12 51 44
COL	iP	12 48 43
	i	49 54
	iPP	50 13
	iPcP	50 34
	iPPP	51 15
	eS	55 03
EUR	iP	12 51 58
	ipP	52 11
FGU	eP	12 52 15
	epP	52 28
	esP	52 41
GCA	eP	12 52 23
GUA	eP	12 47 36
HHM	iP	12 51 30
	epP	51 43
	eP'P'	13 20 07
KIP	eP	12 49 55
	ipP	50 09

8-4297-4

Date and Station		Phase	(GCT) h m s
RCD		eP	12 52 22
		ipP	52 34
		eS	13 01 56
SLC		eP	12 52 09
THU		iP	12 50 45
TUC		iP	12 52 45
		ipP	52 57
		e(S)	13 02 30
		eScS	02 58
TUT		iP	12 52 45
		ePP	55 38
UKI		eP	12 51 45
Jan. 9			
COL		eP	15 03 17
		e	03 29
EUR		iP	15 05 38
Jan. 9			
HHM		i(P)	16 02 37
Jan. 9			
ALQ		eP	16 32 00
		i	32 28
BCN		eP	16 30 28
EUR		iP	16 30 41
		iS	31 23
FGU		eP	16 31 40
		e	31 56
GCA		eP	16 30 58
		i	31 05
		iS	31 50
Jan. 9			
BCN		eP	16 57 07
COL		eP	16 58 23
		e	58 43
EUR		eP	16 57 21
		iS	57 58
GCA		eP	16 57 32
Jan. 9			
COL		eP	17 31 38
		e	32 06
Jan. 9			
HHM		e(P)	17 53 51
Jan. 9			
HHM		e(P)	18 04 37
Jan. 9			
EUR		eP	18 58 22
FGU		e(P)	18 58 24

Date and Station		Phase	(GCT) h m s
Jan. 9			
EUR		eP'	20 10 13
		ePP	13 57
Jan. 9			
COL		eP	20 43 37
HHM		e(P)	20 45 37
Jan. 9			
ALQ		eP	21 31 04
Jan. 9			
ALQ		eP	21 46 54
COL		iP	21 52 10
		i	52 32
EUR		eP	21 48 10
FGU		eP	21 47 53
Jan. 9			
GUA		iP	21 58 04
		iS	58 33
Jan. 9			
EUR		e(P)	22 10 32
Jan. 9			
ALQ		iP	22 24 44
COL		iP	22 20 26
		i	20 55
		ipP	21 54
EUR		iP	22 23 53
		i	24 20
		ipP	25 27
FGU		iP	22 24 09
GCA		iP	22 24 18
HHM		iP	22 23 21
		i	24 00
RCD		iP	22 24 13
THU		iP	22 22 30
Jan. 9			
FGU		eP	23 14 51
		eS	15 26
Jan. 10			
COL		iP	00 07 49
EUR		iP	00 07 29
FGU		eP	00 07 53
Jan. 10			
COL		eP	01 25 33
		e	25 52
		ePcP	26 40
Jan. 10			
ALQ		eP	02 28 27

Date and Station		Phase	(GCT) h m s
BOZ		e(P)	02 27 13
COL		eP	02 23 42
		i	24 07
		i(S)	26 15
EUR		eP	02 27 18
		iPcP	29 30
		i(S)	32 15
FGU		eP	02 27 43
HHM		e(P)	02 26 47
RCD		eP	02 28 03
SJP		iP	02 32 23
		i	32 36
Jan. 10			
ALQ		iP	03 05 10
COL		eP	03 08 17
EUR		iP	03 06 04
FGU		eP	03 05 48
GCA		eP	03 05 38
HHM		iP	03 06 34
RCD		iP	03 05 46
SJP		eP	03 01 41
		i	01 48
Jan. 10			
EUR		e(P)	06 08 34
Jan. 10			
ALQ		eP	06 32 23
BOZ		eP	06 31 43
BUT		eP	06 31 28
COL		eP	06 32 50
		e	33 43
EUR		iP	06 31 19
		eL	35 07
FGU		e(P)	06 31 21
		e	32 08
GCA		eP	06 31 24
		e	32 16
HHM		iP	06 31 19
RCD		e(P)	06 31 30
		e	32 56
UKI		eP	06 30 07
Jan. 10			
COL		eP	06 39 02

Date and Station		Phase	(GCT) h m s
EUR		iP	06 36 37
		eS	38 33
Jan. 10			
EUR		e(P)	07 10 46
Jan. 10			
EUR		eP	07 27 38
Jan. 10			
HHM		iP	09 14 57
Jan. 10			
COL		eP	09 53 49
		e	56 04
EUR		eP	09 59 39
Jan. 10			
COL		eP	12 48 33
		ipP	49 07
EUR		e(P)	12 50 00
HHM		iP	12 49 16
Jan. 10			
EUR		eP	13 28 54
Jan. 10			
COL		iP	14 14 37
Jan. 10			
ALQ		eP	16 47 23
		i	48 04
Jan. 10			
FGU		eP	17 37 21
		eS	37 49
Jan. 10			
HHM		e(P)	17 55 44
Jan. 10			
FGU		eP	18 31 57
		eS	32 26
Jan. 10			
HHM		e(P)	20 38 06
Jan. 10			
COL		eP	21 27 35
EUR		eP	21 29 14
Jan. 10			
EUR		e(P)	22 12 46
Jan. 10			
COL		eP	23 21 31
Jan. 10			
FGU		eP	23 44 45
		iS	45 18

Date and Station		Phase (GCT)
Jan. 11		h m s
HHM	i(P)	00 18 54
Jan. 11		
COL	eP	00 48 12
	i	48 26
Jan. 11		
EUR	eP	02 02 02
Jan. 11		
ALQ	eP	03 03 47
COL	iP	02 59 10
	ipP	59 19
	iPP	03 00 05
	i	01 06
	eScS	10 23
EUR	eP	03 02 41
FGU	eP	03 03 07
GCA	e(P)	03 03 03
HHM	eP	03 02 12
SJP	e(P)	03 07 28
Jan. 11		
COL	iP	03 13 33
	i(pP)	13 51
EUR	eP'	03 20 18
	ePKKP	31 03
Jan. 11		
COL	e(P)	04 05 18
Jan. 11		
ALQ	iP	05 17 47
BOZ	eP	05 17 13
BUT	iP	05 17 15
COL	iP	05 16 23
	i	16 38
	i	17 21
	iPP	19 20
CSC	eP	05 16 34
EUR	iP	05 17 50
FGU	eP	05 17 29
GCA	eP	05 17 49
HHM	iP	05 17 07
RCD	iP	05 17 01
SLC	eP	05 17 35
SJP	eP	05 16 31
	i	16 38
TUC	eP	05 18 10
Jan. 11		
COL	e(P)	05 53 44

Date and Station		Phase (GCT)
Jan. 11		h m s
COL	eP	06 01 24
	e	04 32
	e	04 39
	e	04 46
EUR	e(P)	06 02 52
Jan. 11		
COL	eP	06 21 38
Jan. 11		
ALQ	iP	06 58 26
BOZ	eP	06 57 14
BUT	eP	06 57 05
COL	eP	06 53 40
	epP	53 53
	ePP	54 45
	i	56 36
CSC	eP	07 00 13
EUR	iP	06 57 20
FGU	eP	06 57 44
GCA	eP	06 57 32
HHM	iP	06 56 48
SLC	eP	06 57 34
SJP	iP	07 02 03
RCD	eP	06 57 56
	ipP	58 05
	i	58 16
	ePcP	59 10
Jan. 11		
COL	eP	08 42 38
	e	43 20
Jan. 11		
COL	eP	10 14 00
EUR	eP	10 15 29
FGU	e(P)	10 15 04
HHM	e(P)	10 14 44
Jan. 11		
ALQ	eP	11 59 32
Jan. 11		
COL	eP	12 36 13
	e	37 04
EUR	iP	12 39 42
Jan. 11		
HHM	e(P)	13 53 30
Jan. 11		
EUR	iP	17 25 59
Jan. 11		
ALQ	eP	18 30 01

Date and Station		Phase (GCT)
Jan. 11		h m s
EUR	e(P)	19 41 51
Jan. 11		
ALQ	eP	21 10 34
Jan. 11		
COL	eP	22 29 22
Jan. 11		
ALQ	eP	23 26 53
COL	iP	23 27 02
	i	27 09
	ipP	27 36
EUR	eP	23 26 32
Jan. 12		
EUR	e(P)	00 20 47
HHM	i(P)	00 20 05
Jan. 12		
ALQ	eP	04 29 18
Jan. 12		
SIT	eP	05 01 39
	eS	02 20
	eL	02 45
Jan. 12		
COL	iP	05 23 51
	iS	24 13
EUR	eP	05 29 28
Jan. 12		
ALQ	eP	09 03 34
BCN	eP	09 03 07
BUT	eP	09 02 50
EUR	iP	09 02 50
	i	03 24
FGU	eP	09 03 11
GCA	eP	09 03 09
GUA	iP	08 52 08
	eS	53 19
HHM	eP	09 02 42
RCD	eP	09 03 24
SLC	eP	09 03 03
Jan. 12		
ALQ	eP	10 06 26
EUR	eP	10 07 11
	e	07 19
FGU	eP	10 07 01
GCA	e(P)	10 06 44
RCD	eP	10 07 10

Date and Station		Phase (GCT)
Jan. 12		h m s
BCN	eP	11 03 49
COL	iP	10 59 48
	eS	11 03 57
EUR	eP	11 03 24
	i	05 19
FGU	e(P)	11 03 49
HHM	iP	11 02 53
THU	eP	11 03 12
TUC	e(P)	11 04 26
Jan. 12		
ALQ	eP	11 27 20
BCN	eP	11 27 29
BOZ	eP	11 28 22
BUT	eP	11 28 23
COL	eP	11 29 50
	e	30 12
EUR	eP	11 27 47
FGU	eP	11 27 57
GCA	eP	11 27 31
HHM	eP	11 28 35
RCD	eP	11 28 13
	i	28 18
SLC	eP	11 27 54
TUC	eP	11 27 04
TUT	eP	11 27 02
Jan. 12		
ALQ	eP	13 50 18
COL	iP	13 46 13
	ipP	46 28
EUR	eP	13 49 28
	ipP	49 44
HHM	iP	13 49 00
THU	eP	13 48 09
Jan. 12		
EUR	eP	14 54 42
Jan. 12		
ALQ	eP	15 51 30
Jan. 12		
EUR	eP	17 39 29

B-4297-4

Date and Station		Phase	(GCT) h m s
Jan. 12			
COL		iP	20 59 53
Jan. 12			
EUR		iP	21 01 20
FGU		e(P)	21 01 00
HHM		iP	21 00 38
Jan. 12			
ALQ		eP	22 07 23
		e	10 09
BOZ		eP	22 05 42
BUT		eP	22 05 33
COL		eP	22 02 33
		i	02 57
		iS	04 26
EUR		iP	22 06 14
		i	07 04
FGU		eP	22 06 25
HHM		iP	22 05 06
		eL	10 31
Jan. 12			
COL		iP	23 23 33
EUR		eP	23 20 47
FGU		e(P)	23 23 33
Jan. 12			
FGU		e(P)	23 52 49
		eS	53 25
Jan. 13			
ALQ		iP	00 55 54
		e	58 03
EUR		iP	00 56 40
		ipP	56 52
FGU		eP	00 56 32
HHM		iP	00 57 15
SJP		iP	00 52 40
TUT		iP	00 55 56
Jan. 13			
GCA		eP	02 12 34
Jan. 13			
COL		eP	03 03 55
		i	04 10
Jan. 13			
COL		eP	03 15 17
		e(pP)	16 42
		ePP	18 35
EUR		iP	03 16 20
TUC		e(P)	03 16 21
Jan. 13			
ALQ		eP	04 46 05
		eS	46 49
FGU		eP	04 45 54
		iS	46 31
GCA		eP	04 46 04
		eS	46 48
Jan. 13			
ALQ		eP	04 58 06
COL		iP	04 53 27
EUR		iP	04 57 01
FGU		eP	04 57 24
GCA		e(P)	04 57 26
		ePcP	58 20
HHM		iP	04 56 29
		iPP	58 23
KIP		iP	04 55 38
RCD		eP	04 57 36
THU		eP	04 56 49
TUC		eP	04 58 02
TUT		iP	04 58 02
Jan. 13			
BOZ		e(P)	05 00 11
HHM		iP	05 00 05
SJP		eP	05 01 37
Jan. 13			
COL		iP	05 42 56
Jan. 13			
ALQ		eP	06 11 39
COL		iP	06 06 37
EUR		e(P)	06 10 40
HHM		iP	06 09 20
Jan. 13			
GUA		iP	06 15 11
		iS	15 24
Jan. 13			
EUR		iP	06 27 29
Jan. 13			
COL		e(P)	06 51 44
Jan. 13			
ALQ		eP'	08 37 10
COL		eP	08 31 11
		i	31 55
EUR		eP'	08 37 36
Jan. 13			
ALQ		eP	11 34 22
EUR		eP	11 34 55
FGU		e(P)	11 34 59
HHM		e(P)	11 35 43
Jan. 13			
ALQ		eP	11 53 27
COL		iP	11 53 33
EUR		iP	11 53 02
GCA		eP	11 53 13
TUC		eP	11 53 03
Jan. 13			
COL		eP	13 12 44
		e	12 51
		e(PcP)	13 28
HHM		iP	13 13 28
Jan. 13			
FGU		eP	13 18 15
		iS	19 01
Jan. 13			
ALQ		eP	13 33 45
		i	33 50
		iS	34 35
BCN		eP	13 34 14
BUT		eP	13 34 48
EUR		iP	13 34 26
		i(S)	36 14
FGU		iP	13 33 35
		i(S)	34 14
HHM		e(P)	13 35 32
RCD		e(P)	13 34 29
		e(S)	34 53
SLC		eP	13 34 00
TUC		eP	13 34 46
TUT		e(P)	13 34 46
Jan. 13			
BOZ		eP	14 53 22
Jan. 13			
FGU		eP	15 18 14
		eS	19 15
Jan. 13			
COL		iP	15 46 10
		i	46 30
EUR		iP	15 49 40
Jan. 13			
COL		e(P)	16 27 25
EUR		eP	16 31 04
Jan. 13			
FGU		eP	18 04 12
		iS	04 49
GCA		e(P)	18 04 17
		iS	05 04
Jan. 13			
EUR		iP	18 23 56
Jan. 13			
COL		eP	18 51 11
		e	51 21
Jan. 14			
FGU		eP	00 05 23
		eS	05 48
Jan. 14			
FGU		eP	00 32 06
		eS	32 31
Jan. 14			
COL		e(P)	06 19 59
EUR		iP	06 23 32
Jan. 14			
COL		eP	07 15 47
		ePP	19 14
EUR		eP	07 19 24
Jan. 14			
COL		iP	07 32 46
		i	32 59
EUR		iP	07 36 01
FGU		e(P)	07 36 16
RCD		eP	07 36 37
THU		eP	07 34 47
Jan. 14			
COL		eP	08 32 58
Jan. 14			
COL		iP	08 49 08
		i	49 28
EUR		eP	08 48 09
HHM		iP	08 48 20
Jan. 14			
COL		iP	09 29 42
		i	30 15

B-4297-4+

Date and Station		Phase (GCT) h m s
EUR	iP	09 30 23
	ipP	30 34
FGU	e(P)	09 30 49
Jan. 14		
COL	iP	10 49 55
EUR	iP	10 50 32
	i	50 38
Jan. 14		
COL	iP	12 42 30
EUR	eP	12 42 06
Jan. 14		
COL	eP	12 56 28
	ePP	59 28
EUR	iP	12 59 52
Jan. 14		
ALQ	eP	13 45 54
BUT	eP	13 44 51
COL	iP	13 41 47
	iPcP	42 02
	ipP	42 31
EUR	iP	13 45 06
	iPP	47 52
FGU	eP	13 45 22
HON	iP	13 43 18
HHM	iP	13 44 36
KIP	iP	13 43 17
RCD	iP	13 45 25
THU	eP	13 43 35
TUC	eP	13 45 51
Jan. 14		
COL	eP	16 09 02
Jan. 14		
COL	eP	16 54 33
	e	54 57
EUR	e(P)	16 56 02
HHM	iP	16 55 17
Jan. 14		
COL	iP	18 53 55
	i(pP)	54 37
Jan. 14		
ALQ	eP	19 42 24
Jan. 14		
COL	eP	20 04 20
	i	04 39

Date and Station		Phase (GCT) h m s
EUR	iP	20 07 56
Jan. 14		
FGU	e(P)	21 03 42
Jan. 14		
ALQ	eP	21 28 18
	iS	28 58
Jan. 15		
EUR	eP	01 02 11
Jan. 15		
ALQ	e(P)	02 24 38
BOZ	eP	02 23 37
BUT	eP	02 23 42
EUR	iP	02 23 18
	iS	23 59
HHM	eP	02 25 54
RCD	e(P)	02 26 29
Jan. 15		
BCN	eP	04 32 37
EUR	eP	04 33 23
	eL	34 52
GCA	eP	04 33 18
	e	34 42
Jan. 15		
COL	e(P)	04 51 36
HHM	i(P)	04 48 34
Jan. 15		
HHM	iP	05 29 50
	i	31 00
Jan. 15		
EUR	eP	06 06 45
Jan. 15		
EUR	eP	06 36 25
Jan. 15		
ALQ	e(P)	08 13 42
BOZ	iP	08 15 13
BUT	eP	08 15 20
COL	iP	08 18 36
	i	18 53
CSC	eP	08 12 51
EUR	eP	08 14 56
	i	15 16
FGU	iP	08 14 34
GCA	eP	08 14 20
	e	17 09

Date and Station		Phase (GCT) h m s
HHM	iP	08 15 40
RCD	eP	08 14 35
	e	15 45
SLC	eP	08 14 44
TUC	e(P)	08 13 50
TUT	iP	08 13 53
Jan. 15		
ALQ	iP	08 30 40
BCN	iP	08 31 32
BUT	eP	08 31 40
COL	iP	08 34 03
	ipP	34 16
	e	36 22
EUR	iP	08 31 44
	iPcP	32 04
FGU	eP	08 31 10
GCA	eP	08 31 16
HHM	iP	08 31 51
RCD	eP	08 30 47
SLC	eP	08 31 24
SJP	iP	08 24 06
	iS	25 29
TUC	eP	08 31 04
TUT	iP	08 31 02
Jan. 15		
COL	eP	09 56 13
	i	56 25
Jan. 15		
EUR	e(P)	10 48 43
Jan. 15		
EUR	eP	11 11 14
TUC	e(P)	11 10 07
Jan. 15		
COL	eP	12 33 41
Jan. 15		
COL	eP	15 33 30
Jan. 15		
EUR	eP	16 04 32
Jan. 15		
HHM	iP	17 28 39
Jan. 15		
ALQ	eP	17 52 44
	eS	53 24

Date and Station		Phase (GCT) h m s
Jan. 15		
COL	eP	18 06 21
	e	06 32
Jan. 15		
COL	eP	18 32 42
	iPcP	33 37
	iPP	34 12
EUR	eP	18 33 30
GUA	iP	18 25 32
Jan. 15		
EUR	eP	18 59 53
Jan. 15		
EUR	eP	19 58 23
Jan. 15		
EUR	e(P)	22 28 59
Jan. 15		
COL	iP	22 47 51
	i	48 23
	i	48 42
Jan. 15		
COL	eP	23 08 38
	e	08 52
EUR	eP	23 11 34
Jan. 15		
BCN	iP	23 18 23
EUR	iP	23 18 07
	i	18 13
	iS	18 50
GCA	eP	23 19 04
	e(S)	20 16
Jan. 16		
COL	eP	05 48 41
	i	48 54
Jan. 16		
ALQ	eP	05 59 11
	e	59 33
Jan. 16		
HHM	e(P)	07 02 39
Jan. 16		
EUR	eP	07 15 26
Jan. 16		
BOZ	e(P)	08 31 09
HHM	i(P)	08 32 08
Jan. 16		
COL	e(P)	09 57 07
Jan. 16		
CSC	eP	10 36 29

B-4297-4

Date and Station		Phase (GCT)
		h m s
Jan. 16		
ALQ	eP	11 48 57
	e(pP)	49 14
	eS	59 09
	ePKKP	12 06 01
COL	iP	11 49 15
	i(pP)	49 39
	iPP	53 04
	eS	59 55
	ePKKP	12 05 51
EUR	iP	11 48 42
	iPKKP	12 06 14
	eP'P'	14 21
FGU	eP	11 49 05
	ePKKP	05 32
GCA	eP	11 48 49
GUA	iP	11 45 22
HHM	iPKKP	12 05 53
HON	iP	11 45 18
KIP	iP	11 45 19
RCD	eP	11 49 44
	e(PKKP)	12 05 46
SLC	eP	11 48 58
TUC	eP	11 48 37
TUT	iP	11 48 38
Jan. 16		
FGU	eP	13 51 57
	eS	52 16
Jan. 16		
COL	eP	15 06 19
Jan. 16		
BOZ	eP	15 26 03
COL	e(P)	15 28 05
	e	28 31
EUR	iP	15 25 21
FGU	eP	15 25 32
GCA	e(P)	15 25 07
HHM	eP	15 26 17
Jan. 16		
EUR	e(P)	15 44 05
Jan. 16		
COL	e(P)	17 23 01
Jan. 16		
COL	eP	17 35 10
	i	35 36
EUR	eP	17 36 06

Date and Station		Phase (GCT)
		h m s
Jan. 16		
HHM	e(P)	18 01 35
Jan. 16		
BOZ	iP	18 29 10
EUR	eP	18 29 27
	i	29 46
FGU	eP	18 28 57
HHM	eP	18 29 19
Jan. 16		
COL	eP	19 27 55
	e	28 10
EUR	iP	19 31 27
Jan. 17		
ALQ	eP	00 03 58
Jan. 17		
BCN	iP	00 26 15
Jan. 17		
ALQ	eP	01 35 24
Jan. 17		
HHM	i(P)	04 02 48
Jan. 17		
COL	eP	04 18 32
	i	18 42
Jan. 17		
COL	iP	07 43 49
	iS	44 10
Jan. 17		
EUR	eP	09 34 48
Jan. 17		
FGU	e(P)	10 04 20
	eS	04 43
Jan. 17		
FGU	e(P)	10 25 51
	e	26 16
Jan. 17		
COL	iP	11 42 21
	epP	44 31
EUR	iP	11 41 59
Jan. 17		
BOZ	iP	13 08 36
EUR	eP	13 09 59
	e	11 56
FGU	eP	13 09 18
	i	09 31
HHM	iP	13 09 36
Jan. 17		
ALQ	iP'	13 38 31
	epP	38 39

Date and Station		Phase (GCT)
		h m s
COL	e(P)	13 32 55
EUR	iP'	13 38 15
	ipP'	38 23
FGU	iP'	13 38 23
GCA	eP'	13 38 19
HHM	iP'	13 38 13
RCD	eP'	13 38 29
Jan. 17		
COL	eP	15 41 51
EUR	eP'	15 47 46
GUA	eP	15 33 56
Jan. 17		
COL	eP	15 55 47
	ipP	56 02
EUR	eP'	16 01 45
GUA	eP	15 47 56
Jan. 17		
GCA	e(P)	16 24 15
	e	24 43
	e	25 13
Jan. 17		
HHM	e(P)	17 57 22
Jan. 17		
COL	eP	18 21 30
EUR	iP	18 18 03
	eL	20 05
GCA	eP	18 17 46
	e	19 02
Jan. 17		
FGU	e(P)	19 00 00
	eS	00 24
Jan. 17		
COL	eP	19 16 05
Jan. 17		
COL	eP	19 30 54
HHM	e(P)	19 30 16
Jan. 17		
EUR	eP	20 48 15
Jan. 17		
COL	e(P)	21 02 34
Jan. 17		
COL	eP	21 17 46
EUR	iP	21 21 09
Jan. 17		
FGU	eP	21 32 27
	eS	32 56

Date and Station		Phase (GCT)
		h m s
Jan. 17		
COL	e(P)	22 12 08
Jan. 17		
ALQ	eP	22 50 12
Jan. 17		
FGU	eP	23 17 12
	eS	17 59
SLC	e(P)	23 17 29
Jan. 17		
BOZ	e(P)	23 41 32
COL	eP	23 44 54
EUR	iP	23 41 19
FGU	iP	23 40 56
	e(pP)	41 29
GCA	eP	23 40 43
HHM	eP	23 41 58
RCD	iP	23 40 55
SJP	iP	23 38 55
THU	eP	23 44 43
TUT	iP	23 40 13
Jan. 18		
BOZ	eP	00 15 37
HHM	iP	00 16 09
	iS	16 42
Jan. 18		
EUR	eP	01 43 53
Jan. 18		
COL	e(P)	02 51 08
Jan. 18		
COL	e(P)	04 57 48
Jan. 18		
COL	eP	05 45 05
	e	49 29
Jan. 18		
COL	eP	07 55 01
Jan. 18		
COL	i(P)	08 28 34
EUR	iP	08 28 12
Jan. 18		
COL	e(P)	09 43 12
Jan. 18		
GCA	e(P)	10 34 48
Jan. 18		
COL	eP	12 37 04

Date and Station		Phase (GCT)
		h m s
Jan. 18		
HHM	e(P)	13 55 59
Jan. 18		
COL	e(P)	14 14 18
Jan. 18		
COL	e(P)	15 05 02
Jan. 18		
COL	e(P)	15 21 30
Jan. 18		
BOZ	iP	15 41 24
Jan. 18		
COL	iP	15 58 00
	e	58 44
EUR	e(P)	15 58 57
	e	59 15
GUA	eP	15 50 24
Jan. 18		
COL	iP	15 54 47
EUR	e(P)	15 55 36
Jan. 18		
COL	iP	16 06 01
EUR	iP	16 07 23
HHM	e(P)	16 07 30
Jan. 18		
COL	iP	16 08 47
EUR	i(P)	16 10 03
GUA	eP	16 01 11
Jan. 18		
GUA	e(P)	16 31 12
Jan. 18		
COL	e(P)	16 33 50
	e	34 49
Jan. 18		
COL	eP	16 58 20
Jan. 18		
EUR	iP	18 00 41
	iS	01 17
FGU	eP	18 01 41
	e	01 55
	e	03 20
GCA	eP	18 00 59
	i	01 06
	i(S)	01 50
SLC	e(P)	18 01 18
Jan. 18		
EUR	iP	18 08 15
	iS	08 53
GCA	eP	18 08 40

Date and Station		Phase (GCT)
		h m s
Jan. 18		
EUR	eP	18 54 03
SLC	e(P)	18 53 23
Jan. 18		
EUR	eP	22 05 27
Jan. 18		
FGU	eP	23 59 45
	eS	24 00 05
Jan. 19		
THU	iP	00 55 22
Jan. 19		
COL	e(P)	01 19 32
Jan. 19		
COL	eP	01 43 18
Jan. 19		
BCN	iP	02 01 15
EUR	e(P)	02 01 48
	eL	02 39
Jan. 19		
BOZ	iP	02 32 00
EUR	eP	02 33 25
	eL	34 59
FGU	eP	02 32 45
	eS	33 46
HHM	iP	02 32 49
	i	33 01
	iS	33 56
Jan. 19		
COL	eP	03 49 10
Jan. 19		
COL	e(P)	04 01 48
Jan. 19		
FGU	eP	04 48 04
	i(S)	48 39
Jan. 19		
COL	eP	04 56 01
Jan. 19		
COL	e(P)	05 20 32
Jan. 19		
BCN	iP	05 56 10
	e	56 31
Jan. 19		
BOZ	iP	06 10 40
COL	iP	06 07 08
EUR	iP	06 10 50
	i	11 17
	iPcP	11 37
FGU	eP	06 11 08
	i	11 27
GCA	eP	06 11 18

Date and Station		Phase (GCT)
		h m s
HHM	iP	06 10 15
	i	11 29
SLC	iP	06 11 00
THU	eP	06 09 50
TUC	eP	06 11 44
Jan. 19		
COL	eP	06 46 55
Jan. 19		
COL	e(P)	07 14 15
Jan. 19		
COL	eP	07 30 25
Jan. 19		
COL	eP	08 29 44
Jan. 19		
COL	e(P)	10 09 28
Jan. 19		
EUR	e(P)	10 35 52
FGU	eP	10 35 42
HHM	e(P)	10 36 43
SJP	iP	10 31 39
	i	31 42
Jan. 19		
COL	eP	11 00 02
EUR	e(P)	11 00 37
Jan. 19		
COL	eP	11 44 44
Jan. 19		
COL	e(P)	13 28 37
Jan. 19		
COL	eP	13 35 31
EUR	eP	13 34 57
FGU	eP	13 35 23
GCA	eP	13 35 06
TUC	eP	13 34 53
Jan. 19		
COL	iP	13 55 24
Jan. 19		
COL	e(P)	14 08 24
Jan. 19		
COL	e(P)	14 20 45
Jan. 19		
COL	eP	15 47 47
Jan. 19		
COL	e(P)	16 18 22

Date and Station		Phase (GCT)
		h m s
Jan. 19		
EUR	e(P)	17 48 03
Jan. 19		
ALQ	eP	18 04 16
	eS	04 57
GCA	e(P)	18 04 32
	e	05 23
TUC	iP	18 03 46
Jan. 19		
COL	eP	18 42 50
Jan. 19		
HHM	eP	19 08 24
Jan. 19		
ALQ	eP	19 36 46
EUR	eP	19 37 49
FGU	eP	19 38 25
GCA	eP	19 37 15
TUC	e(P)	19 36 17
Jan. 19		
COL	eP	19 49 53
EUR	e(P)	19 51 18
HHM	iP	19 50 38
THU	e(P)	19 47 18
Jan. 19		
EUR	iP	19 59 25
	i	59 47
Jan. 19		
RCD	e(P)	20 21 07
Jan. 19		
COL	iP	20 55 31
	ipP	55 55
	ePKKP	21 10 52
GUA	eP	20 49 18
SJP	eP'	21 03 11
THU	eP	20 56 32
Jan. 19		
COL	iP	21 31 30
	ipP	31 52
GUA	iP	21 22 57
Jan. 19		
COL	eP	22 30 15
	i(pP)	30 35
EUR	e(P)	22 31 42
HHM	iP	22 31 00

9-4297-4+

Date and Station	Phase	Phase (GCT) h m s
THU	eP	22 27 22
Jan. 19		
FGU	iP	23 39 45
	iS	39 54
Jan. 20		
COL	eP	03 43 49
	e	44 12
	e	44 35
Jan. 20		
HHM	e(P)	05 29 31
Jan. 20		
BHP	eP	07 24 59
	eS	25 29
Jan. 20		
BHP	eP	10 28 40
Jan. 20		
COL	eP	11 57 22
Jan. 20		
BOZ	iP	14 06 14
Jan. 20		
COL	iP	14 19 08
HHM	e(P)	14 22 12
Jan. 20		
ALQ	eP	15 16 35
	eS	17 28
Jan. 20		
THU	iP	16 15 52
Jan. 20		
COL	eP	18 36 06
Jan. 20		
CSC	eP	18 59 43
Jan. 20		
COL	iP	19 02 24
Jan. 20		
COL	iP	20 27 01
	ipP	27 17
CSC	e(P)	20 28 20
EUR	iP	20 28 02
	i	28 51
GUA	iP	20 19 18
Jan. 20		
COL	iP	22 31 26
	i	31 41
EUR	e(P)	22 31 17
FGU	eP	22 31 33
GCA	e(P)	22 31 28
Jan. 20		
COL	e(P)	23 03 22
Jan. 21		
COL	iP	00 54 39
Jan. 21		
EUR	eP	00 06 24
Jan. 21		
CSC	eP	01 43 22
Jan. 21		
COL	eP	03 02 56
	ePcP	03 14
EUR	eP	03 04 21
FGU	e(P)	03 03 59
HHM	iP	03 03 39
RCD	eP	03 03 32
TUT	iP	13 03 21
	ipP	05 21
Jan. 21		
HHM	eP	06 01 32
Jan. 21		
HHM	e(P)	06 56 31
	i	56 53
Jan. 21		
BUT	iP	07 38 40
Jan. 21		
HHM	iP	07 59 35
Jan. 21		
EUR	eP	10 07 09
Jan. 21		
HHM	i(P)	10 36 15
Jan. 21		
HHM	iP	11 28 17
Jan. 21		
HHM	e(P)	11 44 16
Jan. 21		
ALQ	iP	13 03 40
	epP	05 40
BCN	iP	13 03 14
	ipP	05 13
BOZ	iP	13 03 49
COL	iP	13 03 35
	ePcP	04 49
	ipP	05 35
EUR	iP	13 03 17
	ipP	05 18
	ePKKP	21 50
	eP'P'	32 27
FGU	eP	13 03 43
	epP	05 43
GCA	eP	13 03 28
	epP	05 26
GUA	iP	12 59 41
HHM	iP	13 03 45
	eP'P'	29 57
TUC	iP	13 03 20
	ipP	05 20
Jan. 21		
EUR	e(P)	15 40 02
Jan. 21		
HHM	e(P)	15 46 02
Jan. 21		
HHM	e(P)	16 12 19
Jan. 21		
COL	iP	18 01 23
	ipP	01 47
EUR	iP	18 04 39
	ipP	05 01
HHM	iP	18 04 11
Jan. 21		
COL	e(P)	18 23 13
EUR	iP	18 26 30
	e	26 41
Jan. 21		
COL	eP	22 08 27
EUR	eP	22 04 40
FGU	eP	22 04 18
Jan. 21		
FGU	eP	23 11 52
	i	11 55
Jan. 22		
COL	e(P)	00 01 50
EUR	iP	00 06 27
FGU	eP	00 05 58
Jan. 22		
COL	iP	02 55 21
	i	56 08
HHM	e(P)	02 57 50
Jan. 22		
COL	iP	03 45 05
Jan. 22		
ALQ	e(P)	04 10 25
	e	12 35
Jan. 22		
COL	iP	07 35 51
	e	36 25
EUR	iP	07 39 09
FGU	eP	07 39 10
HHM	iP	07 38 26
RCD	eP	07 39 01
Jan. 22		
COL	eP	10 11 20
	ipP	11 53
Jan. 22		
COL	eP	12 05 04
Jan. 22		
HHM	i(P)	13 43 27
Jan. 22		
HHM	iP	15 19 38
Jan. 22		
COL	iP	19 55 22
	i	56 50
Jan. 22		
ALQ	eP	20 12 44
	i	12 56
	e	13 30
EUR	iP	20 12 27
TUC	iP	20 12 21
	i	12 41
Jan. 22		
COL	iP	20 34 13
	i	34 45
Jan. 22		
COL	eP	20 55 33
Jan. 22		
COL	iP	21 42 32
EUR	eP	21 43 33
Jan. 23		
SLC	e(P)	00 06 30
Jan. 23		
FGU	eP	01 45 05
	eS	45 38
Jan. 23		
COL	iP	06 26 32
EUR	iP	06 26 09
Jan. 23		
COL	e(P)	09 03 46
Jan. 23		
ALQ	eP	09 31 19
EUR	eP	09 32 21
Jan. 23		
BOZ	iP	11 44 30
BUT	iP	11 44 44
	iS	45 10

B-4297-4

Date and Station	Phase (GCT)
	h m s
EUR eP	11 45 53
FGU e(P)	11 45 12
HHM eP	11 45 29
Jan. 23	
EUR eP	12 41 00
FGU e(P)	12 42 13
HHM iP	12 43 26
Jan. 23	
ALQ eP	13 45 25
EUR e(P)	13 45 44
Jan. 23	
GUA eP	15 05 02
Jan. 23	
GUA e(P)	15 08 32
i	08 45
Jan. 23	
BOZ e(P)	15 39 21
Jan. 23	
ALQ eP	16 07 52
epP	08 07
ePcP	09 24
BCN eP	16 07 21
epP	07 38
BOZ iP	16 06 38
COL iP	16 03 14
iPP	03 53
i	04 35
ePcP	08 16
i(ScP)	10 24
EUR eP	16 06 43
ipP	07 02
iPcP	08 55
eS	13 00
FGU eP	16 07 07
GCA e(P)	16 07 22
HHM iP	16 06 11
epP	06 23
ePcP	08 43
SLC e(P)	16 06 55
SJP iP	16 11 47
THU eP	16 07 13
TUC iP	16 07 46
ipP	08 05
isP	08 18
TUT iP	16 07 46
epP	08 05

Date and Station	Phase (GCT)
Jan. 23	h m s
BOZ e(P)	16 38 09
Jan. 23	
ALQ e(P)	17 44 06
COL iP	17 42 48
EUR eP	17 44 11
FGU eP	17 43 48
THU eP	17 39 53
Jan. 23	
HHM e(P)	18 02 39
Jan. 23	
HHM iP	18 47 13
Jan. 23	
HHM e(P)	21 10 20
Jan. 23	
BCN e(P)	21 47 48
Jan. 23	
ALQ e(P)	23 04 51
i	05 54
Jan. 23	
EUR eP	23 33 57
Jan. 24	
ALQ eP	00 04 50
EUR e(P)	00 04 39
FGU eP	00 03 56
i	03 59
iS	04 23
GCA eP	00 04 18
eS	04 53
SLC eP	00 03 59
Jan. 24	
FGU eP	00 30 04
Jan. 24	
COL e(P)	00 46 57
e	47 31
EUR eP	00 46 56
Jan. 24	
COL eP	01 19 06
e	19 23
EUR eP	01 21 44
i	22 06
FGU eP	01 22 01
Jan. 24	
EUR eP	02 48 24
Jan. 24	
ALQ iP	03 11 54
BCN e(P)	03 12 28

Date and Station	Phase (GCT)
	h m s
EUR iP	03 12 46
e	12 57
FGU eP	03 12 31
GCA eP	03 12 22
GUA iP'	03 20 43
HHM iP	03 13 14
RCD i(P)	03 12 28
SJP eP	03 08 30
TUC eP	03 11 57
Jan. 24	
EUR eP	03 48 56
Jan. 24	
ALQ eP	04 59 40
BCN e(P)	04 59 12
COL iP	04 58 59
i	59 10
EUR iP	04 59 14
ipP	59 46
ePP	05 02 46
ePPP	15 38
e(P'P')	28 11
FGU e(P)	04 59 36
SJP eP'	05 05 21
Jan. 24	
COL eP	05 28 43
Jan. 24	
COL iP	05 30 33
i	30 48
iS	32 25
FGU eP	05 35 32
HHM iP	05 34 25
Jan. 24	
ALQ e(P)	06 13 08
eS	15 16
EUR eP	06 12 49
eL	14 36
TUT e(P)	06 12 13
Jan. 24	
ALQ iP	07 36 06
e	36 10
COL iP	07 41 15
i	41 56
EUR iP	07 37 21
FGU eP	07 37 02

Date and Station	Phase (GCT)
	h m s
GCA eP	07 36 43
TUC eP	07 36 09
TUT iP	07 36 10
Jan. 24	
COL e(P)	08 42 19
Jan. 24	
EUR eP	09 04 42
Jan. 24	
COL eP	13 28 06
Jan. 24	
ALQ iP	14 37 20
eL	43 46
BCN eP	14 38 08
COL iP	14 42 40
i(PcP)	43 34
EUR iP	14 38 38
FGU eP	14 38 22
GCA eP	14 38 02
HHM eP	14 39 32
TUC eP	14 37 19
e(S)	44 05
eL	44 51
Jan. 24	
ALQ iP	15 13 03
iS	13 15
EUR eP	15 14 24
Jan. 24	
ALQ eP	15 53 32
epP	53 46
COL iP	15 50 42
ePKKP	16 08 19
EUR eP	15 53 12
GUA eP	15 44 23
HHM iP	15 52 52
Jan. 24	
ALQ e(P)	17 50 12
COL eP	17 55 07
e	56 06
EUR eP	17 52 04
FGU e(P)	17 52 01
Jan. 24	
HHM e(P)	18 18 46

B-4297-4

Date and Station		Phase (GCT)
Jan. 24		h m s
ALQ	eP	18 26 51
	iS	28 21
Jan. 24		
HHM	e(P)	19 33 06
Jan. 24		
BCN	iP	19 49 54
Jan. 24		
ALQ	eP	20 20 27
	i	20 38
Jan. 24		
ALQ	eP	20 28 12
Jan. 24		
EUR	iP	22 26 07
Jan. 24		
FGU	eP	22 45 56
	eS	46 29
Jan. 25		
COL	iP	00 32 07
EUR	eP	00 35 53
Jan. 25		
COL	e(P)	00 43 06
Jan. 25		
COL	iP	01 55 41
	i	56 35
FGU	e(P)	01 55 07
	eS	56 17
HHM	i(P)	01 55 09
	i(S)	56 05
KIP	iP	01 59 08
Jan. 25		
BCN	iP	02 03 11
BOZ	e(P)	02 03 34
COL	iP	02 02 37
	i	03 21
	i	03 52
EUR	iP	02 03 11
FGU	eP	02 03 34
GCA	e(P)	02 03 33
GUA	eP	01 56 11
HHM	iP	02 03 32
RCD	eP	02 04 04
SLC	iP	02 03 27
SJP	eP'	02 09 33
TUC	eP	02 03 23

Date and Station		Phase (GCT)
Jan. 25		h m s
ALQ	iP	07 36 02
	epP	36 55
BOZ	e(P)	07 37 03
BUT	iP	07 37 13
COL	eP	07 39 23
	epP	40 18
	ePP	42 21
EUR	eP	07 36 57
FGU	iP	07 36 41
GUA	iP'	07 45 23
	ipP'	46 23
HHM	iP	07 37 26
RCD	eP	07 36 38
	epP	37 16
	e(S)	45 17
SJP	iP	07 32 31
	e(S)	37 38
TUC	eP	07 36 07
Jan. 26		
HHM	iP	08 30 30
Jan. 25		
COL	iP	09 36 31
	e(pP)	36 46
GUA	iP	09 26 09
	iL	26 47
	eT	28 59
Jan. 25		
ALQ	iP	10 13 03
BCN	iP	10 12 28
BOZ	iP	10 13 28
BUT	iP	10 13 24
COL	iP	10 14 12
	iPcP	14 35
	e	15 26
EUR	iP	10 12 39
FGU	eP	10 13 13
GCA	eP	10 12 47
	ePcP	13 44
HHM	iP	10 13 28
RCD	iP	10 13 44
SLC	iP	10 13 02
TUC	eP	10 12 30
TUT	iP	10 12 31

Date and Station		Phase (GCT)
Jan. 25		h m s
COL	eP	10 49 02
Jan. 25		
COL	eP	10 59 43
Jan. 25		
ALQ	eP	12 14 10
Jan. 25		
COL	e(P)	12 24 56
	epP	27 06
Jan. 25		
COL	e(P)	13 49 04
Jan. 25		
COL	e(P)	15 13 40
Jan. 25		
EUR	eP	17 27 45
Jan. 25		
ALQ	eP	17 39 47
Jan. 25		
ALQ	eP	18 46 11
Jan. 25		
ALQ	eP	20 23 22
BCN	e(P)	20 24 12
Jan. 25		
EUR	iP	21 19 16
Jan. 25		
FGU	eP	22 06 28
	e	07 14
Jan. 25		
ALQ	eP	22 47 54
COL	iP	22 47 54
	i(PcP)	48 17
EUR	iP	22 47 33
Jan. 25		
FGU	eP	23 01 01
	eS	01 33
Jan. 25		
COL	iP	23 49 01
	i	49 48
Jan. 26		
COL	e(P)	01 35 23
Jan. 26		
ALQ	eP	02 47 42
COL	iP	02 52 52
EUR	iP	02 48 59
FGU	eP	02 48 40
TUT	iP	02 47 46
Jan. 26		
COL	iP	05 00 12

Date and Station		Phase (GCT)
Jan. 26		h m s
COL	eP	05 23 51
	i	24 05
Jan. 26		
ALQ	eP	05 35 14
COL	iP	05 31 47
	i	31 52
EUR	eP	05 34 31
FGU	iP	05 34 48
	e(pP)	36 07
HHM	iP	05 34 11
RCD	eP	05 34 53
SLC	iP	05 34 41
THU	eP	05 33 37
Jan. 26		
ALQ	iP	06 22 00
BOZ	e(P)	06 22 12
COL	iP	06 22 10
	i(PcP)	22 30
	iPP	26 33
EUR	iP	06 21 41
FGU	eP	06 22 05
	e(PcP)	22 31
RCD	eP	06 22 30
TUC	iP	06 21 39
TUT	iP	06 21 39
Jan. 26		
FGU	eP	07 02 06
	e	02 31
Jan. 26		
EUR	eP	07 30 42
Jan. 26		
ALQ	iP	08 31 05
	e	34 45
BCN	iP	08 31 20
BOZ	iP	08 30 35
BUT	iP	08 30 37
COL	iP	08 29 47
	iPcP	29 57
	i	30 12
	i	30 55
CSC	eP	08 29 54

9-4297-4+

Date and Station		Phase (GCT)
		h m s
EUR	eP	08 31 08
	e	34 09
	e(PP)	35 02
FGU	eP	08 30 49
RCD	iP	08 30 25
SLC	iP	08 30 55
SJP	iP	08 29 42
	ipP	29 56
THU	iP	08 27 19
TUC	eP	08 31 24
	e(PP)	35 26
TUT	iP	08 31 24
	i(PP)	35 25
Jan. 26		
COL	eP	09 43 22
EUR	e(P)	09 43 02
Jan. 26		
EUR	e(P)	12 01 40
Jan. 26		
COL	eP	13 41 28
Jan. 26		
COL	eP	14 08 23
EUR	eP	14 09 06
Jan. 26		
ALQ	eP	14 46 15
BOZ	e(P)	14 47 14
COL	eP	14 47 28
EUR	eP	14 46 51
SJP	e(P)	14 44 42
Jan. 26		
COL	eP	15 00 46
Jan. 26		
EUR	eP	15 26 31
Jan. 26		
ALQ	eP	18 46 14
BCN	iP	18 47 04
BOZ	e(P)	18 47 49
COL	iP	18 51 19
	i(PcP)	52 03
CSC	iP	18 45 46
EUR	eP	18 47 30

Date and Station		Phase (GCT)
		h m s
FGU	eP	18 47 10
GCA	eP	18 46 52
SLC	iP	18 47 20
THU	eP	18 51 19
TUC	eP	18 46 20
TUT	iP	18 46 20
Jan. 26		
ALQ	iP	21 10 16
COL	eP	21 14 24
	e	14 32
EUR	iP	21 11 24
	i	12 39
FGU	e(P)	21 11 01
SJP	eP	21 06 33
Jan. 26		
COL	iP	21 50 58
	i	51 38
Jan. 26		
BCN	eP	22 36 06
EUR	e(P)	22 36 26
Jan. 26		
FGU	eP	23 04 48
	eS	05 20
Jan. 26		
EUR	e(P)	23 35 54
	eL	36 42
FGU	eP	23 35 42
	e	36 13
SLC	iP	23 35 09
	i	35 49
Jan. 26		
FGU	eP	23 43 22
Jan. 27		
ALQ	eP	00 59 33
BCN	e(PcP)	01 02 35
COL	iP	01 03 38
SJP	eP	00 56 19
Jan. 27		
COL	eP	02 29 18
Jan. 27		
COL	eP	03 05 06
Jan. 27		
UKI	e(P)	03 45 07
Jan. 27		
COL	eP	04 06 51
	e	07 22

Date and Station		Phase (GCT)
		h m s
EUR	e(P)	04 06 15
Jan. 27		
EUR	eP	06 38 35
	e	38 45
Jan. 27		
COL	eP	07 19 18
Jan. 27		
COL	eP	07 31 05
	e	32 44
EUR	iP	07 34 27
TUC	eP	07 35 26
Jan. 27		
COL	eP	07 42 25
Jan. 27		
COL	e(P)	08 57 02
	e	57 09
Jan. 27		
EUR	iP	09 20 29
Jan. 27		
COL	eP	10 15 37
	i	17 19
Jan. 27		
COL	iP	10 48 26
Jan. 27		
COL	iP	11 54 08
	i	54 20
EUR	eP	11 53 09
HHM	iP	11 53 19
Jan. 27		
COL	iP	12 14 08
	e	14 45
EUR	eP	12 13 35
TUC	eP	12 13 32
Jan. 27		
ALQ	e(P)	12 28 52
COL	eP	12 31 53
	e	32 11
EUR	e(P)	12 31 23
Jan. 27		
ALQ	eP	13 21 38
Jan. 27		
THU	eP	14 46 21
Jan. 27		
GCA	e(P)	15 10 31
	eS	11 29
Jan. 27		
COL	eP	16 00 17
	e	01 42

Date and Station		Phase (GCT)
Jan. 27		h m s
BCN	eP	16 29 58
	i(S)	31 00
COL	eP	16 33 51
	ePP	36 42
EUR	eP	16 29 06
	iS	29 23
UKI	e(P)	16 29 42
Jan. 27		
COL	iP	20 40 25
	ipP	40 45
	e	48 11
	e(S)	48 49
Jan. 27		
EUR	eP	22 05 25
FGU	e(P)	22 06 18
Jan. 27		
COL	iP	22 25 42
Jan. 27		
COL	iP	22 40 19
Jan. 27		
ALQ	eP	23 01 38
BCN	e(P)	23 00 59
EUR	e(P)	23 01 41
FGU	eP	23 02 15
GCA	eP	23 01 11
	eS	02 44
Jan. 27		
ALQ	eP	23 09 00
BCN	i(P)	23 09 06
BOZ	eP	23 11 19
BUT	i(P)	23 11 22
	i(S)	15 06
COL	iP	23 15 18
EUR	i(P)	23 09 48
	iL	12 23
FGU	eP	23 10 41
HHM	eP	23 11 46
	iL	16 53
RCD	eP	23 11 19
SLC	e(P)	23 09 38
	eL	12 54
SJP	eP	23 16 04
THU	eP	23 16 39

8-4297-4

Date and Station		Phase	(GCT)
			h m s
UKI		e(P)	23 10 26
Jan. 27			
EUR		e(P)	23 28 15
		eL	30 57
FGU		e(P)	23 28 53
GCA		eP	23 27 46
		i	28 18
		eS	29 37
Jan. 28			
COL		eP	00 11 27
Jan. 28			
FGU		eP	00 16 48
Jan. 28			
BCN		e(P)	00 38 48
Jan. 28			
ALQ		eP	00 46 07
BCN		e(P)	00 45 00
EUR		e(P)	00 46 05
		eL	48 46
FGU		e(P)	00 47 07
GCA		e(P)	00 45 28
		e	45 43
Jan. 28			
ALQ		eP	01 31 27
BCN		e(P)	01 30 49
COL		iP	01 35 51
EUR		e(P)	01 31 39
		eL	34 17
FGU		e(P)	01 32 14
GCA		eP	01 31 08
		i	31 15
		eS	32 57
Jan. 28			
ALQ		eP	02 05 29
BCN		e(P)	02 03 59
EUR		e(P)	02 05 42
		eL	08 30
GCA		eP	02 05 08
Jan. 28			
ALQ		eP	02 14 34
BCN		e(P)	02 13 51
EUR		e(P)	02 14 42
		eL	17 30
FGU		e(P)	02 15 20
GCA		eP	02 14 07

Date and Station		Phase	(GCT)
Jan. 28			h m s
ALQ		eP	02 21 07
BCN		e(P)	02 20 52
EUR		e(P)	02 21 40
		eL	24 21
FGU		e(P)	02 22 11
GCA		eP	02 21 00
		i	21 13
		eL	23 14
Jan. 28			
GCA		eP	03 42 15
Jan. 28			
COL		iP	04 06 41
SJP		eP'	04 13 49
Jan. 28			
ALQ		eP	05 28 04
		e	52 22
BCN		iP	05 28 52
BOZ		e(P)	05 29 42
COL		eP	05 31 33
		iPP	33 10
		eS	39 48
EUR		eP	05 29 19
FGU		eP	05 29 01
SLC		eP	05 29 09
THU		ePP	05 33 13
TUC		eP	05 28 08
TUT		iP	05 28 08
Jan. 28			
ALQ		iP	05 52 22
BCN		iP	05 51 53
BOZ		iP	05 52 35
		epP	52 46
BUT		iP	05 52 30
COL		iP	05 52 35
EUR		iP	05 52 00
		ipP	52 10
FGU		eP	05 52 26
		epP	52 38
GCA		eP	05 52 08
		epP	52 16
HON		iP	05 47 49
KIP		iP	05 47 50

Date and Station		Phase	(GCT)
			h m s
RCD		eP	05 52 54
		e	53 39
SLC		iP	05 52 18
THU		eP'	05 58 36
TUC		iP	05 51 58
		ipP	52 09
		ePP	55 03
TUT		e(P)	05 52 58
UKI		iP	05 51 33
Jan. 28			
FGU		eP	06 16 59
Jan. 28			
COL		iP	08 07 03
		i	07 19
EUR		iP	08 10 35
		i	12 08
Jan. 28			
BOZ		iP	11 41 21
		iS	41 43
BUT		iP	11 41 20
		iL	43 24
EUR		eP	11 42 24
FGU		eP	11 42 07
		i	42 13
		iS	43 06
GCA		e(P)	11 42 22
RCD		eP	11 42 39
		i(S)	44 24
		iL	45 17
SLC		eP	11 41 59
Jan. 28			
BCN		eP	11 50 34
EUR		e(P)	11 51 20
		eL	53 58
FGU		e(P)	11 51 54
GCA		eP	11 50 51
		i	51 17
		eS	52 33
Jan. 28			
EUR		eP	12 48 03
Jan. 28			
EUR		eP	12 48 43
FGU		eP	12 48 31
Jan. 28			
BOZ		eP'	16 59 45

Date and Station		Phase	(GCT)
			h m s
COL		iP	16 54 01
		e	54 14
		ipP	54 25
		isP	54 41
		iPP	57 31
		ePKKP	17 15 52
EUR		eP'	16 59 43
GUA		iP	16 46 27
RCD		iP'	16 59 47
SJP		iP'	17 01 41
Jan. 28			
COL		eP	20 48 38
Jan. 28			
SLC		eP	22 53 31
Jan. 29			
COL		eP	00 43 36
Jan. 29			
SJP		iP	01 12 45
Jan. 29			
BHP		eP	01 29 24
		eS	30 02
Jan. 29			
FGU		e(P)	02 02 03
		eS	04 40
Jan. 29			
BCN		e(P)	02 34 37
GCA		e(P)	02 35 06
Jan. 29			
FGU		eP	03 07 07
		iS	07 45
GCA		eP	03 07 49
		eS	08 29
Jan. 29			
COL		iP	05 09 41
		i	09 53
EUR		e(P)	05 09 19
GCA		eP	05 09 15
Jan. 29			
COL		iP	06 20 10
EUR		eP	06 17 16
Jan. 29			
COL		iP	06 52 20
		e	52 49
Jan. 29			
FGU		iP	08 41 03

Date and Station		Phase (GCT)
Jan. 29		h m s
FGU	e(P)	09 22 16
Jan. 29		
BOZ	e(P)	09 31 24
Jan. 29		
BCN	e(P)	11 56 17
COL	iP	11 55 30
	i	55 38
	i(pP)	55 50
EUR	eP	11 56 15
Jan. 29		
COL	eP	13 37 10
	ipP	37 28
Jan. 29		
BCN	e(P)	14 49 45
Jan. 29		
COL	e(P)	15 07 48
Jan. 29		
COL	eP	15 57 25
Jan. 29		
COL	eP	17 26 56
	e	27 22
Jan. 29		
ALQ	eP	17 51 17
BCN	e(P)	17 50 43
COL	eP	17 55 09
FGU	e(P)	17 52 44
	e	52 11
GCA	eP	17 50 42
	eS	52 15
Jan. 29		
COL	iP	21 20 17
	ipP	20 30
Jan. 29		
COL	e(P)	21 53 56
FGU	e(P)	21 52 34
	e	52 52
Jan. 29		
COL	eP	22 21 56
EUR	eP	22 21 33
Jan. 29		
ALQ	eP	23 29 08
BCN	iP	23 28 27
EUR	eP	23 29 18
	iL	31 48
FGU	e(P)	23 29 53
	eS	31 54

Date and Station		Phase (GCT)
		h m s
GCA	eP	23 28 47
	e	29 26
	eS	30 26
Jan. 30		
ALQ	eP	00 03 05
BCN	eP	00 02 41
COL	e(P)	00 06 18
EUR	e(P)	00 03 03
GCA	eP	00 02 32
	e	03 02
	eS	04 27
Jan. 30		
EUR	eP	03 41 23
Jan. 30		
COL	eP	04 28 56
Jan. 30		
EUR	eP	04 41 11
Jan. 30		
COL	eP	07 05 22
	i(pP)	05 50
EUR	iP	07 09 14
FGU	e(P)	07 09 30
Jan. 30		
CSC	eP	08 15 16
Jan. 30		
ALQ	eP	08 40 11
	eS	45 04
	eL	48 16
BHP	eP	08 36 29
	eS	38 56
BCN	iP	08 41 03
BOZ	iP	08 41 43
	e	41 53
	i	41 57
BUT	iP	08 41 50
COL	eP	08 45 05
	ePP	47 38
CSC	iP	08 39 19
	iS	43 27
EUR	iP	08 41 28
	i	43 59
	iS	47 35
GCA	eP	08 40 50
RCD	eP	08 41 06
	i	42 30
	iPcP	43 22
	ePP	44 54

Date and Station		Phase (GCT)
		h m s
SLC	iP	08 41 15
SJP	eP	08 39 11
	e	39 39
	e(S)	43 09
THU	eP	08 44 55
TUC	eP	08 40 20
	iPP	41 30
	iPcP	43 28
Jan. 30		
FGU	e(P)	09 04 39
	eS	05 46
Jan. 30		
EUR	e(P)	09 12 52
Jan. 30		
COL	e(P)	11 09 56
Jan. 30		
COL	e(P)	12 45 26
Jan. 30		
FGU	eP	13 05 48
	eS	06 19
Jan. 30		
COL	iP	14 03 44
	epP	04 49
EUR	eP	14 04 53
Jan. 30		
COL	iP	15 13 02
	i	13 10
FGU	eP	15 13 04
Jan. 30		
ALQ	iP	15 36 44
	ipP	37 19
BCN	iP	15 35 15
BOZ	iP	15 35 09
	i(pP)	35 44
BUT	i(P)	15 35 02
COL	eP	15 32 52
	ePP	35 03
EUR	iP	15 35 04
	ipP	35 40
GUA	iP	15 24 30
HON	iP	15 31 53
KIP	iP	15 31 52
RCD	iP	15 35 35
SJP	ePP	15 44 55
THU	iP	15 34 46

Date and Station		Phase (GCT)
		h m s
TUC	iP	15 35 37
	ipP	36 12
Jan. 30		
BCN	e(P)	17 25 38
BOZ	e(P)	17 24 35
COL	iP	17 21 15
	i	21 23
	iPP	21 40
EUR	eP	17 25 13
FGU	eP	17 25 10
Jan. 30		
ALQ	eP	18 01 59
	i	02 30
	i(S)	03 57
BCN	iP	18 00 27
EUR	iP	18 00 42
	iS	01 19
FGU	eP	18 01 42
	e(S)	03 22
GCA	eP	18 00 57
SLC	e(P)	18 01 12
Jan. 30		
BCN	iP	18 28 48
COL	eP	18 29 55
EUR	eP	18 29 02
	eS	29 39
FGU	e(P)	18 30 01
GCA	eP	18 20 49
	eS	21 40
Jan. 30		
GCA	eP	18 29 17
	e	29 28
	eS	30 17
SLC	e(P)	18 29 42
Jan. 30		
COL	eP	18 43 41
	i	43 45
	ipP	44 13
EUR	eP	18 43 50
	ipP	44 29
Jan. 30		
EUR	eP	19 26 13
	i	26 34
Jan. 30		
ALQ	eP	21 45 27
Jan. 30		
SLC	iP	23 54 24

Date and Station		Phase (GCT)
Jan. 31		h m s
COL	iP	00 17 21
	i	17 29
	ipP	17 40
EUR	eP'	00 23 59
THU	eP	00 15 12
Jan. 31		
COL	eP	00 41 16
Jan. 31		
FGU	eP	01 39 17
Jan. 31		
BCN	e(P)	03 18 43
EUR	eP	03 18 40
	i	18 55
	eS	19 47
FGU	iP	03 19 55
GCA	e(P)	03 19 19
Jan. 31		
COL	eP	03 32 25
Jan. 31		
ALQ	eP	03 54 48
Jan. 31		
EUR	e(P)	04 00 07
Jan. 31		
BCN	e(P)	04 08 42
EUR	iP	04 08 09
	iS	08 34
FGU	eP	04 09 26
GCA	eP	04 09 22
	e	10 34
SLC	e(P)	04 10 24
Jan. 31		
BOZ	eP	04 49 53
BUT	i(P)	04 50 15
EUR	e(P)	04 51 21
FGU	e(P)	04 50 45
	e(S)	51 16
Jan. 31		
GCA	eP	06 12 32
	e	12 42
	eS	13 50
Jan. 31		
COL	eP	07 37 20
	i	37 28
Jan. 31		
BCN	eP	08 34 44
EUR	e(P)	08 34 38

Date and Station		Phase (GCT)
		h m s
COL	iP	08 56 32
	ipP	56 43
EUR	eP	08 55 33
Jan. 30		
GCA	eP	12 36 22
	iS	36 35
Jan. 31		
COL	eP	14 52 54
Jan. 31		
BCN	iP	17 25 57
Jan. 31		
BCN	eP	19 56 20
Jan. 31		
FGU	eP	20 10 20
	eS	10 54
Jan. 31		
COL	iP	20 53 56
	i	54 44
EUR	iP	20 56 11
Jan. 31		
COL	iP	21 14 54
EUR	eP	21 17 52
Jan. 31		
GCA	eP	23 01 11
	eS	02 45
Jan. 31		
BCN	iP	23 52 51

Date and Station		Phase (GCT)
		h m s

Date and Station		Phase (GCT)
		h m s

Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
	h m s		h m s		h m s		h m s
Local and Minor Earthquakes		GCA (Con't.)					
		12	07.6				
			22.7				
January			23.1				
BOZ		13	00.0				
7	23.4		13.3				
	23.5		13.5				
16	08.6	15	02.4				
		18	18.9				
BUT		20	15.3				
14	05.5		22.0				
16	08.5	27	23.1				
17	13.1	29	19.2				
19	02.5	31	00.6				
24	11.7						
		RCD					
COL		4	18.4				
3	02.6	5	22.5				
	04.1	12	20.2				
4	03.1	22	22.3				
6	21.5	25	21.4				
7	10.8	29	19.9				
	14.5						
	20.3	SJP					
11	07.9	2	23.2				
12	00.1	26	20.8				
	16.9	30	00.5				
13	15.1						
	17.5	TUC					
15	04.3	5	09.5				
	18.4	12	22.9				
17	04.9	14	19.6				
22	11.2	15	23.0				
28	18.3	20	23.0				
29	03.6	23	00.0				
31	06.7	27	23.0				
		28	00.7				
EUR			01.5				
7	05.4		11.8				
8	10.8	29	17.8				
18	13.9						
30	02.7	TUT					
	17.2	4	20.8				
31	15.9	5	09.5				
	17.4	10	16.8				
		12	23.0				
FGU		14	19.7				
8	05.0	15	23.0				
10	19.0	20	22.9				
11	20.1	23	00.0				
12	00.2	27	16.2				
	07.6		23.0				
	22.3	28	00.8				
	23.1		01.5				
	23.5		02.2				
13	19.7		11.8				
	13.5	29	17.8				
15	02.4						
18	18.9						
20	15.3						
27	23.2						
30	19.0						
31	00.5						
GCA							
7	05.4						
10	19.0						
11	20.1						
12	00.2						