USCGS
.48

SEISMOLOGICAL BULLETIN

September, 1961

MSI - 249

COAST & GEODETIC SURVEY
16 1963
LIBRARY & ARCHIVES

CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 9
Local and minor earthquakes 28

U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

FOR OFFICIAL DISTRIBUTION

National Oceanic and Atmospheric Administration

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This has been a co-operative project between the NOAA Central Library and the Climate Database Modernization Program, National Climate Data Center (NCDC). To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or Library.Reference@noaa.gov

HOV Services
Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 4, 2011

1961

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)
Lincoln,[1] Nebr. (LIN)
Nebraska Wesleyan University
**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.

1 Discontinued as of June, 1961.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
1	00 09 34.6	59.5 S.	27.3 W.	Sandwich Islands. h about 131 km. Mag. 7½.
1	03 16 04.2	15.5 N.	87.2 W.	Honduras. Felt in northern Honduras. h about 35 km.
1	04 31 24.0	47.4 N.	154.1 E.	Kurile Islands. h about 49 km.
1	04 43 13.4	16.5 N.	93.8 W.	Chiapas, Mexico. h about 155 km.
1	16 25 07.8	17.2 S.	179.1 W.	Fiji Islands. h about 568 km.
1	16 36 49.9	16.5 S.	176.6 W.	Fiji Islands region. h about 437 km.
1	16 51 48.5	35.2 N.	118.5 W.	Kern County, California. Felt at Caliente, Keene, Monolith and Tehachapi. h about 22 km. Mag. 4.0.
1	18 41 32.4	18.1 S.	178.3 W.	Fiji Islands. h about 619 km.
1	18 50 35.4	13.6 N.	92.5 W.	Off coast of Guatemala. h about 37 km. Mag. 6½.
1	18 59 36.3	35.6 N.	138.8 E.	Near east coast of Honshu, Japan. Felt at Tokyo. h about 87 km.
1	20 03 46.5	50.2 S.	120.5 E.	South of Australia. h about 33 km.
1	20 14 51.6	15.4 N.	87.0 W.	Honduras. h about 33 km.
2	00 26 06.2	52.2 N.	170.9 W.	Fox Islands, Aleutian Islands. h about 39 km.
2	00 55 47.7	61.4 S.	153.5 E.	Northwest of Balleny Islands. h about 33 km.
2	03 46 36.8	56.8 S.	147.1 E.	West of Macquarie Islands. h about 41 km.
2	06 19 02.4	28.9 S.	176.7 W.	Kermadec Islands. h about 33 km.
2	07 33 24.3	42.4 N.	142.6 E.	Southern Hokkaido, Japan. h about 31 km.
2	09 57 53.0	41.3 S.	83.1 W.	Off coast of Chile. h about 33 km.
2	10 50 25.8	2.0 S.	67.8 E.	Indian Ocean, southwest of Maldive Islands. h about 33 km.
2	14 16 10.5	39.1 N.	23.9 E.	Aegean Sea. Felt in Skopélos Islands. h about 33 km.
2	17 52 46.1	6.0 S.	105.9 E.	Soenda Strait. h about 127 km.
3	04 48 25.6	12.2 N.	86.9 W.	Near coast of Nicaragua. Felt at Managua. h about 124 km.
3	10 19 28.8	6.7 N.	73.0 W.	Colombia. h about 185 km.
3	17 29 25.2	52.4 N.	158.9 E.	Near east coast of Kamchatka. h about 33 km.
4	00 52 23.5	52.3 N.	173.4 E.	Near Islands, Aleutian Islands. h about 41 km.
4	03 17 24.6	30.2 N.	138.3 E.	South of Honshu, Japan. h about 492 km.
4	04 53 19.2	47.1 N.	154.1 E.	Kurile Islands. h about 60 km.
4	09 49 13.5	51.6 N.	178.2 W.	Andreanof Islands, Aleutian Islands. h about 40 km. Mag. 6¼ (Brk).
4	16 09 20.1	1.3 N.	127.7 E.	Halmahera. h about 156 km.
4	16 27 24.2	9.9 N.	70.9 W.	Venezuela. Felt. h about 33 km.
4	17 15 49.7	52.3 N.	173.8 E.	Near Islands, Aleutian Islands. h about 67 km.
4	18 41 59.5	18.4 S.	175.8 W.	Tonga Islands region. h about 402 km.
4	18 44 54.4	52.8 N.	167.6 W.	Fox Islands, Aleutian Islands. h about 33 km.
4	19 12 34.4	53.0 N.	167.1 W.	Fox Islands, Aleutian Islands. h about 47 km.
4	22 33 34.6	20.3 S.	175.8 W.	Tonga Islands. h about 181 km.
5	00 39 31.0	38.6 N.	23.6 E.	Near east coast of Greece. Felt in eastern Greece. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
5	00 46 29.8	16.2 S.	172.8 W.	Tonga Islands region. h about 33 km.
5	01 16 51.7	38.5 N.	23.6 E.	Near east coast of Greece. Slight damage at Chalkis, Euboea Island. Felt in eastern Greece. h about 33 km.
5	02 21 50.9	43.0 N.	145.5 E.	Near east coast of Hokkaido, Japan. h about 59 km.
5	02 37 37.8	80.2 N.	2.3 W.	Svalbard region. h about 33 km.
5	06 12 59.7	38.5 N.	73.2 E.	Tadzhik SSR. Felt at Peshawar, Rawalpindi and Lahore, Pakistan. h about 104 km.
5	09 11 23.5	44.3 N.	149.0 E.	Kurile Islands. h about 42 km.
5	10 34 45.5	51.5 N.	179.6 W.	Andreanof Islands, Aleutian Islands. h about 60 km.
5	11 34 37.3	60.0 N.	150.6 W.	Kenai Peninsula, Alaska. Felt in Kenai Peninsula area. h about 43 km. Mag. 6-6¼.
5	13 37 33.2	16.4 S.	72.6 W.	Southern Peru. Felt at Arequipa. h about 79 km.
5	13 59 32.1	59.9 N.	150.3 W.	Kenai Peninsula, Alaska. h about 45 km.
5	14 09 51.8	36.8 N.	54.5 E.	Northern Iran. Felt at Gorgan and Beh-Chahr. h about 33 km.
5	21 07 32.6	11.9 N.	141.9 E.	Mariana Islands region. h about 25 km.
6	06 57 41.9	6.0 S.	149.5 E.	New Britain region. h about 61 km.
6	08 14 21.7	2.7 N.	125.7 E.	Moluoca Passage. h about 80 km.
6	10 07 14.0	6.1 S.	130.4 E.	Banda Sea. h about 208 km.
6	13 35 41.7	36.5 N.	70.6 E.	Hindu Kush. h about 197 km.
6	15 30 20.4	10.9 S.	79.1 W.	Off coast of Peru. h about 45 km.
7	02 46 43.4	24.7 S.	179.8 E.	South of Fiji Islands. h about 543 km.
7	16 46 32.0	5.7 S.	134.2 E.	Aroe Islands. h about 22 km.
8	00 05 13.8	63.3 N.	150.5 W.	Alaska. h about 135 km.
8	02 41 49.1	16.3 S.	175.0 W.	Tonga Islands region. h about 153 km.
8	03 01 34.9	41.1 S.	90.2 W.	Southwest of Juan Fernandez Islands. h about 25 km.
8	04 52 08.6	51.7 N.	131.3 W.	Queen Charlotte Islands region. h about 23 km. Mag. 5 (Brk).
8	05 57 37.5	1.8 S.	81.4 W.	Near coast of Ecuador. h about 33 km.
8	06 07 52.4	1.5 S.	80.9 W.	Near coast of Ecuador. h about 33 km.
8	08 29 03.5	20.2 S.	177.5 W.	Fiji Islands region. h about 552 km.
8	10 38 25.1	36.7 N.	20.9 E.	Off coast of Greece. h about 33 km.
8	11 26 32.9	56.3 S.	27.1 W.	Sandwich Islands. h about 125 km. Mag. 7½-7¾.
8	12 42 59.6	23.0 S.	177.7 W.	Tonga Islands region. h about 181 km.
8	14 52 22.8	5.9 S.	129.9 E.	Banda Sea. h about 143 km.
8	17 30 37.4	0.4 S.	123.3 E.	Northern Celebes. h about 169 km.
9	09 10 25.2	52.7 N.	169.4 W.	Fox Islands, Aleutian Islands. h about 61 km.
9	09 16 08.6	34.0 N.	139.6 E.	Off coast of Honshu, Japan. Felt in southern Kanto area. h about 151 km.
9	11 47 12.4	51.9 N.	174.9 W.	Andreanof Islands, Aleutian Islands. h about 50 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
9	15 23 57.8	10.7 S.	164.4 E.	Santa Cruz Islands region. h about 79 km.
9	19 10 45.7	1.3 N.	90.8 W.	Galapagos Islands region. h about 33 km.
9	21 09 48.1	34.3 N.	26.2 E.	Crete. h about 55 km.
9	22 43 02.3	36.4 N.	91.3 W.	Arkansas-Missouri border. Felt at Pocahontas, Arkansas, and Doniphan, Missouri. h about 33 km.
10	01 43 11.0	49.5 N.	158.6 E.	South of Kamchatka Peninsula. h about 33 km.
10	02 51 05.9	31.5 S.	178.1 W.	Kermadec Islands. h about 50 km.
10	04 45 28.8	22.8 S.	63.5 W.	Salta Province, Argentina. h about 527 km.
10	09 00 09.2	74.2 N.	52.5 E.	Novaya Zemlya. h about 0 km.
10	11 41 18.3	8.3 S.	121.7 E.	Flores. h about 21 km.
10	14 45 43.4	19.4 S.	175.8 W.	Tonga Islands region. h about 219 km.
10	16 17 20.0	37.4 N.	36.6 E.	Turkey. Felt at Osmaniye and Adana. h about 28 km.
10	17 43 47.6	24.5 S.	70.1 W.	Near coast of northern Chile. h about 77 km.
10	18 09 07.3	27.8 S.	177.8 W.	Kermadec Islands region. h about 152 km.
10	18 16 07.5	17.9 S.	178.5 W.	Fiji Islands. h about 619 km.
11	02 46 50.3	51.4 N.	180.0	Rat Islands, Aleutian Islands. h about 60 km.
11	04 39 43.6	43.5 N.	127.2 W.	Off coast of Oregon. h about 22 km.
11	05 20 40.7	28.2 N.	88.3 E.	Nepal-Tibet border. h about 23 km.
11	05 56 34.6	28.7 S.	69.2 W.	La Rioja Province, Argentina. h about 120 km.
11	09 02 44.7	51.3 N.	180.0	Rat Islands, Aleutian Islands. h about 50 km.
11	09 13 18.8	52.5 N.	160.4 E.	Off east coast of Kamchatka. h about 33 km.
11	09 44 37.5	44.0 N.	149.9 E.	Kurile Islands. h about 40 km.
11	11 36 46.5	1.1 N.	120.1 E.	Northern Celebes. h about 35 km.
11	14 47 14.3	38.1 S.	72.8 W.	Central Chile. Felt in central Chile. h about 40 km.
11	19 57 58.2	4.1 S.	134.3 E.	Near coast of western New Guinea. h about 19 km.
11	22 15 02.6	10.9 N.	62.4 W.	Near coast of Venezuela. Felt on Trinidad and in Carupano, Venezuela area. h about 134 km.
11	23 47 23.1	42.9 N.	145.3 E.	Near east coast of Hokkaido, Japan. h about 49 km.
12	00 17 12.4	18.1 S.	177.9 W.	Fiji Islands. h about 530 km.
12	01 14 32.9	18.4 S.	169.1 E.	New Hebrides Islands. h about 208 km.
12	05 19 37.8	11.5 S.	164.9 E.	Santa Cruz Islands region. h about 25 km.
12	05 38 01.3	63.4 N.	149.4 W.	Alaska. Felt at Summit and McKinley Park. h about 50 km.
12	08 01 37.3	15.2 S.	173.2 W.	Samoa Islands region. h about 90 km.
12	09 28 07.6	13.5 N.	92.3 W.	Near coast of Guatemala. h about 46 km.
12	10 08 15.3	74.2 N.	52.1 E.	Novaya Zemlya. h about 0 km.
12	11 18 25.3	11.1 S.	70.6 W.	Peru-Brazil border. h about 543 km.
12	11 58 01.4	23.1 S.	176.2 W.	Tonga Islands region. h about 39 km.
12	12 27 07.6	44.0 N.	147.9 E.	Kurile Islands. h about 50 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
12	19 18 42.9	32.4 N.	115.2 W.	Near California-Mexico border. Felt in southern California, Arizona and Mexico. h about 33 km. Mag. 4.8.
12	19 29 09.2	59.9 S.	30.4 W.	Sandwich Islands region. h about 33 km.
13	03 05 37.1	5.6 S.	145.0 E.	New Guinea. Felt at Kundiawa and Madang. h about 100 km.
13	11 21 03.8	47.1 N.	153.3 E.	Kurile Islands. h about 25 km.
13	12 26 25.6	9.0 S.	112.5 E.	Off south coast of Java. h about 33 km.
13	13 12 45.1	37.7 N.	20.7 E.	Near coast of Greece. Felt at Amalias. h about 33 km.
13	14 04 34.2	9.2 S.	112.6 E.	Off south coast of Java. h about 33 km.
13	15 48 23.7	33.0 N.	47.3 E.	Iran-Iraq border. Felt in Tang-Fanni, Iran area. h about 33 km.
13	21 19 19.9	41.7 S.	75.2 W.	Off coast of southern Chile. h about 40 km. Mag. 7 (Brk).
13	23 17 23.6	36.3 N.	140.0 E.	Honshu, Japan. Felt at Tokyo. h about 83 km.
14	01 07 23.7	15.0 N.	91.6 W.	Guatemala. h about 152 km.
14	01 11 32.9	15.7 N.	87.3 W.	Honduras. h about 33 km.
14	06 15 17.0	20.7 S.	69.5 W.	Northern Chile. h about 105 km.
14	08 03 08.7	33.0 N.	47.4 E.	Iran-Iraq border. Felt in Tang-Fanni, Iran area. h about 33 km.
14	09 56 16.7	74.6 N.	51.1 E.	Novaya Zemlya. h about 0 km.
14	18 31 17.8	56.4 S.	139.9 W.	South Pacific Ocean. h about 25 km.
14	18 44 48.7	23.4 S.	180.0	South of Fiji Islands. h about 550 km.
14	21 50 43.2	37.6 N.	141.4 E.	Near east coast of Honshu, Japan. h about 55 km.
14	22 38 32.1	19.9 S.	173.6 W.	Tonga Islands. h about 25 km.
15	00 30 41.8	5.5 S.	153.9 E.	Solomon Islands. h about 200 km.
15	01 20 35.8	6.8 S.	155.3 E.	Solomon Islands. h about 68 km.
15	01 46 09.9	34.9 N.	33.8 E.	Cyprus. Slight damage on Cyprus. Felt at Mersin, Turkey, Beyrouth, Lebanon, northern Israel and Syria. h about 36 km.
15	10 06 36.4	10.2 S.	160.7 E.	Solomon Islands. Felt at Honiara. h about 66 km.
15	17 00 00.1205			37°11'17" N., 116°12'28" W. Nevada Test Site. ANTLER. Shot elevation = 1878.7 meters (AEC).
15	21 24 07.9	10.7 S.	112.9 E.	Off south coast of Java. h about 65 km.
16	03 24 58.1	46.0 N.	122.0 W.	Skamania County, Washington. Felt in southwestern Washington and northwestern Oregon. h about 33 km.
16	05 50 46.8	32.9 N.	116.2 W.	San Diego County, California. h about 13 km. Mag. 3½.
16	09 08 13.7	74.0 N.	51.9 E.	Novaya Zemlya. h about 0 km.
16	11 48 58.7	4.4 S.	143.1 E.	New Guinea. h about 33 km.
16	12 09 53.7	28.4 N.	138.6 E.	South of Honshu, Japan. h about 430 km.
16	13 31 34.5	14.5 N.	46.0 W.	Mid-Atlantic Ocean. h about 19 km.
16	17 17 46.1	52.3 N.	158.5 E.	Near east coast of Kamchatka. h about 49 km.
16	19 45 00.1205			37°02'54" N., 116°02'04" W. Nevada Test Site. SHREW. Shot elevation = 1125.9 meters (AEC).

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
16	19 49 38.4	32.9 N.	116.3 W.	San Diego County, California. Felt in Anza-Borrego Desert State Park and at San Diego. h about 25 km. Mag. 4.4.
16	20 02 47.8	10.7 S.	69.8 W.	Peru-Brazil border. h about 629 km.
16	21 15 31.0	12.8 S.	66.5 E.	Indian Ocean, 900 km. southwest of Chagos Islands. h about 33 km.
17	01 11 43.7	4.1 S.	129.7 E.	Ceram. h about 46 km.
17	03 07 29.5	22.8 S.	175.8 W.	Tonga Islands region. h about 67 km.
17	05 30 09.6	37.5 N.	57.5 E.	Iran-Turkmen SSR border. Felt at Kachmar and Bujnourd, Iran. h about 33 km.
17	06 08 42.2	19.1 S.	169.4 E.	New Hebrides Islands. h about 242 km.
17	08 41 57.3	23.9 N.	122.1 E.	Near east coast of Formosa. Felt on Formosa. h about 53 km.
17	15 42 41.2	2.6 S.	139.2 E.	Near north coast of New Guinea. h about 33 km.
17	15 55 58.8	46.0 N.	122.0 W.	Skamania County, Washington. Slight damage at Stevenson and North Bonneville, Washington and Latourell Falls, Oregon. Felt in southwestern Washington and northwestern Oregon. h about 33 km.
17	17 13 59.1	3.6 S.	143.4 E.	Near north coast of New Guinea. h about 44 km.
17	20 56 48.3	34.4 N.	25.4 E.	Crete. h about 33 km.
17	23 22 06.3	5.9 S.	147.4 E.	Near north coast of New Guinea. h about 45 km.
18	00 09 32.8	43.8 S.	169.1 E.	South Island, New Zealand. Felt at Haast and Wanaka. h about 33 km.
18	02 25 19.3	49.0 N.	128.9 W.	Vancouver Island region. h about 21 km. Mag. 4¾-5 (Pal).
18	04 52 30.9	0.4 S.	80.4 W.	Near coast of Ecuador. h about 16 km.
18	05 08 31.9	34.7 N.	26.5 E.	Crete. h about 39 km.
18	07 59 36.8	74.0 N.	52.0 E.	Novaya Zemlya. h about 0 km.
18	09 23 37.1	46.1 S.	166.8 E.	South Island, New Zealand. Felt on Centre Island. h about 33 km.
18	11 01 04.5	41.0 N.	50.2 E.	Caspian Sea. h about 55 km.
18	12 16 40.3	15.7 S.	168.1 E.	New Hebrides Islands. h about 192 km.
18	15 37 34.5	20.9 S.	173.5 E.	Loyalty Islands region. h about 33 km.
18	21 35 17.4	49.0 N.	128.5 W.	Vancouver Island region. h about 33 km.
19	02 25 49.2	20.5 S.	62.9 W.	Southern Bolivia. h about 580 km. Mag. 6½.
19	06 09 56.6	14.9 N.	146.8 E.	Mariana Islands. h about 61 km.
19	09 18 51.4	2.5 N.	126.0 E.	Molucca Passage. h about 33 km.
19	09 31 18.6	26.1 S.	70.8 E.	Indian Ocean, southeast of Mascarene Islands. h about 33 km.
19	09 46 17.7	6.7 N.	82.4 W.	Off south coast of Panama. Felt at Chitre. h about 33 km. Mag. 6¼-6½.
19	13 13 01.0	17.1 N.	96.9 W.	Oaxaca, Mexico. h about 60 km.
19	13 44 27.5	1.2 N.	125.4 E.	Molucca Passage. h about 34 km.
19	18 25 28.9	21.6 S.	179.3 W.	Fiji Islands region. h about 592 km.
19	20 05 17.6	41.1 N.	50.0 E.	Caspian Sea. Felt at Baku, Azerbaijan SSR. h about 33 km.
19	21 34 42.3	60.1 S.	23.3 W.	Sandwich Islands region. h about 33 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
19	22 29 24.8	18.9 S.	173.4 W.	Tonga Islands. h about 25 km.
20	03 56 06.5	7.2 S.	127.6 E.	Banda Sea. h about 110 km.
20	05 04 09.2	32.8 N.	116.2 W.	San Diego County, California. Felt at Descanso. h about 33 km. Mag. 4.0.
20	19 03 37.7	3.6 S.	151.0 E.	New Ireland region. h about 44 km. Mag. 6¼-6½.
21	10 21 12.5	53.9 N.	160.6 E.	Near east coast of Kamchatka. h about 33 km.
21	18 19 19.1	26.3 S.	70.5 W.	Near coast of northern Chile. h about 36 km.
22	15 14 32.7	3.8 S.	131.1 E.	Ceram. h about 16 km.
22	16 04 31.8	20.0 S.	177.6 W.	Fiji Islands region. h about 585 km.
22	18 38 41.8	7.3 S.	131.5 E.	Tanimbar Islands. h about 81 km.
22	20 08 38.5	55.4 S.	146.3 E.	West of Macquarie Islands. h about 33 km.
23	00 16 47.1	18.8 S.	168.1 E	New Hebrides Islands. h about 33 km.
23	03 01 36.7	19.6 N.	155.2 W.	Hawaii Island, Hawaii. Slight damage at Hilo. h about 33 km.
23	03 01 47.4	7.2 N.	123.2 E.	Near coast of Mindanao, Philippine Islands. h about 74 km.
23	03 48 26.0	42.0 N.	132.0 E.	Sea of Japan. h about 441 km.
23	06 51 29.5	9.6 N.	127.0 E.	Off coast of Mindanao, Philippine Islands. h about 33 km.
23	08 16 23.0	28.4 S.	177.3 W.	Kermadec Islands region. Felt on Raoul Island. h about 41 km.
23	09 37 55.4	47.5 N.	115.4 W.	Idaho-Montana border. Felt at Thompson Falls, Montana and Wallace, Idaho. h about 33 km.
23	15 05 04.2	32.0 S.	70.0 W.	San Juan Province, Argentina. h about 100 km.
23	21 17 25.1	50.2 N.	155.1 E.	Kurile Islands. h about 33 km.
24	04 40 03.7	33.8 S.	179.3 W.	South of Kermadec Islands. h about 33 km.
24	16 52 40.8	56.7 S.	26.2 W.	Sandwich Islands. h about 25 km.
24	19 04 36.3	18.3 N.	98.6 W.	Puebla, Mexico. Felt at Chilpancingo and in Federal District. h about 55 km.
24	21 40 57.3	33.5 N.	141.3 E.	Off coast of Honshu, Japan. h about 50 km.
25	01 22 31.3	15.8 S.	73.7 W.	Southern Peru. h about 96 km.
25	01 46 32.2	29.2 N.	141.5 E.	South of Honshu, Japan. h about 33 km.
25	02 27 13.4	60.5 N.	153.0 W.	Southern Alaska. Felt at Homer. h about 125 km. Mag. 5¾-6.
25	05 28 57.8	19.8 N.	155.2 W.	Hawaii Island, Hawaii. Minor damage at Hilo. h about 33 km. Mag. 5¾-6.
25	10 46 26.0	0.9 N.	99.5 E.	Near coast of Sumatra. h about 33 km.
25	14 11 01.5	37.2 S.	176.4 E.	North Island, New Zealand. h about 257 km.
25	14 47 13.9	4.2 N.	122.7 E.	Celebes Sea. h about 620 km.
25	15 53 34.0	18.7 S.	177.6 W.	Fiji Islands. h about 632 km.
25	20 22 38.7	61.7 N.	152.1 W.	Southern Alaska. h about 136 km.
25	21 12 36.3	75.6 N.	5.4 E.	Svalbard region. h about 33 km.
26	03 59 37.0	39.6 N.	144.6 E.	Off coast of northern Honshu, Japan. h about 36 km.
26	07 12 44.2	24.4 S.	175.7 W.	South of Tonga Islands. h about 33 km.
26	09 50 50.3	15.2 S.	167.3 E.	New Hebrides Islands. h about 130 km.

Date 1961	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
Sept.	h m s	°	°	
26	12 45 38.5	37.2 S.	73.2 W.	Near coast of central Chile. h about 47 km.
26	22 31 59.8	20.6 S.	67.3 W.	Southern Bolivia. h about 242 km.
27	00 46 39.8	15.6 S.	175.0 W.	Fiji Islands region. h about 281 km.
27	01 55 28.1	19.0 N.	105.0 W.	Near coast of Jalisco, Mexico. h about 33 km.
27	06 34 05.4	17.3 S.	178.7 W.	Fiji Islands. h about 555 km. Mag. 5¾-6.
27	08 21 59.6	28.5 N.	54.7 E.	Southern Iran. h about 33 km.
27	10 17 07.7	29.0 S.	71.3 W.	Near coast of central Chile. h about 33 km.
27	10 47 18.3	0.5 S.	123.4 E.	Northern Celebes. h about 143 km.
27	11 20 46.8	52.5 N.	168.7 W.	Fox Islands, Aleutian Islands. h about 27 km.
27	12 07 32.6	59.3 S.	23.3 W.	Sandwich Islands region. h about 33 km.
27	19 20 48.6	52.7 N.	168.7 W.	Fox Islands, Aleutian Islands. h about 42 km.
27	19 27 00.7	52.4 N.	168.7 W.	Fox Islands, Aleutian Islands. h about 22 km. Mag. 5¼ (Pal).
27	20 12 58.4	19.8 N.	120.4 E.	Off north coast of Luzon, Philippine Islands. h about 33 km.
27	21 07 12.1	26.3 N.	124.7 E.	East China Sea. h about 160 km.
28	01 23 59.6	3.9 S.	102.0 E.	Near coast of Sumatra. h about 78 km. Mag. 5½-5¾ (Pal).
28	03 24 37.7	30.8 N.	141.6 E.	South of Honshu, Japan. h about 41 km. Mag. 6.
28	03 32 03.8	52.4 N.	168.7 W.	Fox Islands, Aleutian Islands. h about 33 km.
28	04 19 06.4	30.6 N.	141.6 E.	South of Honshu, Japan. h about 33 km.
28	05 00 43.4	36.4 N.	70.7 E.	Hindu Kush. h about 204 km.
28	17 37 09.3	5.5 S.	152.1 E.	New Britain region. Felt at Rabaul. h about 75 km.
28	18 50 09.3	45.0 N.	110.8 W.	Yellowstone National Park, Wyoming. h about 33 km.
28	21 33 59.1	34.9 S.	111.7 W.	South of Easter Island. h about 33 km.
28	22 36 24.7	27.2 N.	57.1 E.	Near coast of Iran. Felt at Minab. h about 41 km.
29	05 34 51.7	30.2 S.	177.7 W.	Kermadec Islands. h about 58 km.
29	08 19 38.0	23.0 S.	66.7 W.	Jujuy Province, Argentina. h about 250 km.
29	08 24 31.7	52.4 N.	176.4 W.	Andreanof Islands, Aleutian Islands. h about 33 km.
29	08 45 22.3	13.5 N.	93.9 E.	Andaman Islands. h about 60 km.
29	11 24 04.8	23.6 S.	179.6 W.	South of Fiji Islands. h about 589 km.
29	11 56 37.7	44.1 N.	148.3 E.	Kurile Islands. h about 33 km.
29	12 29 06.3	18.5 S.	167.7 E.	New Hebrides Islands. h about 33 km.
29	16 50 35.4	42.9 N.	145.3 E.	Near east coast of Hokkaido, Japan. h about 45 km.
29	19 06 13.4	0.5 N.	122.4 E.	Northern Celebes. h about 110 km.
29	22 36 28.5	28.0 N.	87.6 E.	Nepal-Tibet border. h about 100 km.
29	22 38 04.1	1.7 N.	79.3 W.	Near coast of southern Colombia. h about 33 km.
30	00 21 18.8	44.4 N.	148.9 E.	Kurile Islands. h about 49 km.
30	01 36 40.0	24.1 N.	125.5 E.	Ryukyu Islands. h about 131 km.
30	13 13 11.9	40.4 N.	142.1 E.	Near coast of northern Honshu, Japan. h about 55 km.
30	18 50 14.6	14.5 N.	91.1 W.	Guatemala. h about 104 km.
30	22 11 40.1	43.5 N.	145.4 E.	Near east coast of Hokkaido, Japan. h about 40 km.

Date and Station		Phase	(GCT) h m s
Sept. 1			
BHP	iP		00 21 33C
BCN	iP'		00 28 12
	ePP		29 31
	ePKKP		38 25
BOZ	eP'		00 28 23C
	ePP		30 17
BUT	iP'		00 28 25C
	ePP		30 16
COL	iP'		00 29 07C
CSC	e(P')		00 27 30D
	eSKS		33 40
EUR	e(P)		00 25 10
	i		27 06
	iP'		28 16
	iPP		29 59
	i		32 20
	iPKKP		38 14
	iSKKP		42 28
	i		43 07
	e		44 58
FGU	eP		00 25 05
	iP'		28 13
	iPP		29 42
	iPKKP		38 20
	i		38 59
	iSKKP		42 17
GCA	eP		00 24 55
	iP'		28 11
	ePP		29 34
	ePPP		31 59
	ePKKP		38 29
GUA	iP'		00 28 40
	e		29 18
	e		32 00
HON	iP'		00 28 32(D)
HHM	ePKIKP		00 28 11C
	iP'		28 29
	ePP		30 38
	ePPP		33 20
	ePKKP		38 38
	e		39 52
	eSP		40 26
	iSKKP		41 23
KIP	iP'		00 28 32
RCD	e(P)		00 25 06C
	e		26 51
	iP'		28 13
	ePKKP		38 21
SLC	eP'		00 28 17C
	ePP		29 50
SJP	iP		00 21 52C
	iPP		25 08
SIT	eP'		00 28 55D
TUC	e(P)		00 24 27C
	iP'		28 03
	iPP		29 04
	e		34 19
	e		38 18
UKI	eP'		00 28 24C
	ePP		30 20
WAS	eP		00 23 32D
	eP'		27 25
	ePP		28 00
Sept. 1			
COL	i(P)		01 09 49
Sept. 1			
SLC	eP		02 33 49
Sept. 1			
COL	iP		03 26 33
	iPcP		27 09
EUR	iP		03 22 54
	i		23 09
FGU	eP		03 22 28
GCA	eP		03 22 17
HHM	e(P)		03 23 34
TUC	e(P)		03 21 47
Sept. 1			
EUR	eP		04 21 46
Sept. 1			
COL	iP		04 38 21
	ipP		38 32
Sept. 1			
BCN	iP		04 48 46
	epP		49 24
COL	iP		04 53 09
	ipP		53 49
	isP		54 19
EUR	iP		04 49 12
	ipP		49 51
	isP		50 20
	i		51 28
GCA	eP		04 48 35
	ipP		49 13
HHM	e(P)		04 50 02
	epP		50 39
	iPcP		52 16
RCD	eP		04 49 00
SLC	eP		04 49 02
SJP	e(P)		04 49 49
	e		50 30
TUC	eP		04 48 00
	ipP		48 36
	isP		48 54
	i		49 40
	eS		51 39
Sept. 1			
EUR	eP		06 22 47
Sept. 1			
EUR	eP		07 13 48
Sept. 1			
EUR	e(P)		09 51 50
FGU	eP		09 51 32
Sept. 1			
EUR	eP		12 18 56
Sept. 1			
COL	iP		14 03 18
	i		03 31
EUR	eP		14 06 46
HHM	e(P)		14 06 14
Sept. 1			
COL	iP		16 36 48
EUR	eP		16 36 31
Sept. 1			
COL	iP		16 48 35
	i		48 50
	epP		50 11
EUR	iP		16 48 14
FGU	eP		16 48 49
GCA	eP		16 48 23
HHM	iP		16 48 42
TUC	iP		16 48 16
TUT	iP		16 48 16
Sept. 1			
BCN	eP		16 52 40
EUR	eP		16 53 02
	i		53 17
	iL		54 21
GCA	eP		16 53 18
	e		53 37
Sept. 1			
COL	iP		18 53 11
	i		53 40
	i		53 41
	ipP		55 21
EUR	iP		18 52 53
	i		53 09
FGU	eP		18 53 07
GCA	eP		18 53 02
GUA	eP		18 49 20
SJP	iP'		18 59 34
TUC	iP		18 52 54
TUT	eP		18 52 55
	i		52 56
Sept. 1			
BHP	iP		18 53 45
	i		54 27
	iPcP		58 28
BCN	eP		18 56 46
BOZ	eP		18 57 34
	eS		19 03 13
BUT	iP		18 57 40
	e(S)		19 03 48
COL	iP		19 01 03
	ipP		01 15
	i		01 58
	i		02 13
	i		08 27
	i		08 38
	iS		09 48
CSC	eP		18 55 35
	eS		59 44
EUR	eP		18 57 08
	i		57 11
	ipP		57 19
	iPP		58 37
	i		58 56
	iPcP		59 47
	eS		19 02 36
	eScP		03 37
	i		03 50
	e		05 10
	i		11 23
FGU	iP		18 56 51
	eS		19 02 02
	i		14 52
GCA	iP		18 56 34
	e		19 15 17
HON	iP		19 00 58
	eS		09 36
HHM	iP		18 58 02
KIP	iP		19 00 58
RCD	iP		18 57 00
SLC	eP		18 57 00
	ePcP		59 50
	eL		19 03 48
SJP	e(P)		18 56 05
TUC	iP		18 55 59
	iS		19 00 40
TUT	iP		18 55 59
UKI	eP		18 57 49
WAS	iP		18 56 22

Date and Station		Phase (GCT)
		h m s
Sept. 1		
EUR	eP	19 11 32
GUA	eP	19 04 28
	e	04 52
Sept. 1		
EUR	iP	19 28 28
Sept. 1		
EUR	iP	19 55 57
	i	56 05
Sept. 1		
BUT	eP	20 22 03
COL	iP	20 25 23
	iPcP	25 58
EUR	iP	20 21 42
	i	22 20
FGU	eP	20 21 17
GCA	eP	20 21 06
HHM	iP	20 22 23
Sept. 1		
GCA	eP	23 53 51
Sept. 2		
BCN	eP	00 34 04
BOZ	eP	00 33 33
BUT	eP	00 33 21
COL	iP	00 30 09
	i	31 34
	i	31 41
	iS	33 26
CSC	eP	00 36 40
EUR	iP	00 33 37
	i	33 53
	iPcP	35 46
	e	37 02
FGU	eP	00 34 03
	iScP	39 42
GCA	eP	00 33 12
	eS	38 47
HHM	iP	00 33 08
	iPcP	35 35
	iScP	39 17
KIP	iP	00 32 36
RCD	iP	00 34 18
SJP	iP	00 38 39
SIT	eP	00 30 53
TUC	iP	00 34 41
TUT	iP	00 34 42
Sept. 2		
BOZ	eP	00 39 29
BUT	eP	00 39 25
EUR	iP	00 39 30
	i	39 45
	e	39 58
Sept. 2		
EUR	e(P)	01 02 36
Sept. 2		
EUR	eP	01 59 24
	i	59 30
	i	02 01 14
HHM	i(P)	01 58 53
	i	02 01 20
Sept. 2		
COL	e(P)	02 47 37
Sept. 2		
FGU	e(P)	03 29 56
Sept. 2		
COL	eP	04 04 31
Sept. 2		
EUR	eP'	04 05 41
Sept. 2		
FGU	e(P)	06 03 06
	e	03 43
Sept. 2		
COL	eP	06 32 26
EUR	iP	06 31 52
	i	32 25
GCA	eP	06 31 32
Sept. 2		
COL	eP	06 55 27
Sept. 2		
COL	iP	07 41 31
	ipP	41 40
EUR	iP	07 44 45
	i	45 07
	i	45 27
HHM	e(P)	07 44 18
Sept. 2		
COL	eP	09 12 38
	e	12 56
EUR	iP	09 15 36
Sept. 1		
EUR	eP	10 10 31
FGU	e(P)	10 10 27
Sept. 2		
BCN	eP'	11 10 07
EUR	eP'	11 09 55
	i	09 59
	e	10 57
	ePP	13 00
	e	14 03
FGU	eP'	11 10 02
HHM	e(P')	11 12 09
TUC	iP'	11 10 12
TUT	e(P')	11 10 11
Sept. 2		
HHM	iP	14 28 45
Sept. 2		
COL	e(P)	15 47 09
Sept. 2		
EUR	eP'	18 11 43
	ePP	13 55
Sept. 2		
EUR	iP	18 14 53
FGU	eP	18 15 03
Sept. 2		
EUR	eP	18 35 55
Sept. 2		
FGU	e(P)	20 39 58
Sept. 2		
FGU	e(P)	22 18 36
Sept. 3		
EUR	iP	01 26 13
GUA	iP	01 13 58
Sept. 3		
GUA	eP	02 51 42
	eS	52 15
	eT	03 04 34
Sept. 3		
EUR	iP	03 15 52
FGU	e(P)	03 16 13
Sept. 3		
COL	eP	03 54 26
EUR	eP	03 55 06
Sept. 3		
BOZ	e(P)	04 55 43
COL	eP	04 59 05
	epP	59 27
CSC	eP	04 53 16
EUR	iP	04 55 30
	ipP	55 55
FGU	eP	04 55 07
	ipP	55 31
GCA	eP	04 54 55
	epP	55 19
HHM	eP	04 56 06
	e	56 35
RCD	eP	04 55 07
SJP	iP	04 53 01
TUC	e(P)	04 54 24
TUT	eP	04 54 24
Sept. 3		
EUR	iP	05 39 27
Sept. 3		
EUR	iP	06 23 00
	i	23 05
Sept. 3		
FGU	eP	07 22 55
Sept. 3		
BHP	iP	08 49 57
	iS	50 21
EUR	iP	08 54 06
Sept. 3		
EUR	iP	09 28 59
	i	29 03
HHM	iP	09 29 18
Sept. 3		
BOZ	e(P)	09 39 52
Sept. 3		
EUR	iP	10 28 11
FGU	eP	10 27 49
SJP	e(P)	10 22 35
TUC	eP	10 27 17
Sept. 3		
FGU	eP	11 27 44
Sept. 3		
SJP	e(P)	12 40 44
Sept. 3		
BCN	eP	14 22 04
Sept. 3		
COL	iP	17 35 28
EUR	iP	17 39 13
	i	39 30
	iPcP	40 06

Date and Station		Phase (GCT)
		h m s
FGU	eP	17 39 30
	e	40 06
Sept. 3		
GCA	eP	21 47 59
	e	49 07
Sept. 3		
TUT	eP	23 10 26
Sept. 3		
COL	eP	23 17 30
EUR	iP	23 13 36
FGU	e(P)	23 13 07
HHM	eP	23 14 15
Sept. 4		
COL	iP	00 57 32
	i	58 06
	i	59 32
EUR	iP	01 01 09
	e	01 16
FGU	e(P)	01 01 30
HHM	iP	01 00 36
SJP	iP	01 05 37
Sept. 4		
COL	iP	02 51 15
Sept. 4		
COL	eP	03 26 21
	e	28 21
EUR	iP	03 28 58
	i	29 14
FGU	eP	03 29 24
	e	30 55
HHM	iP	03 28 40
	i	31 41
Sept. 4		
EUR	iP	03 30 36
Sept. 4		
COL	iP	04 35 03
EUR	iP	04 38 37
	e	38 51
Sept. 4		
GCA	e(P)	04 36 58
Sept. 4		
COL	iP	05 00 10
	i	00 22
	ipP	00 25
EUR	iP	05 03 37
	epP	03 51
	i	03 58

Date and Station		Phase (GCT)
		h m s
FGU	e(P)	05 03 58
GCA	e(P)	05 04 07
HHM	e(P)	05 01 55
	iPcP	03 22
Sept. 4		
UKI	eP	06 51 46
Sept. 4		
BCN	eP	09 57 44
BOZ	eP	09 57 15
	e(S)	10 03 41
BUT	eP	09 57 05
	eScP	10 02 44
COL	iP	09 53 49
	eS	57 46
	iScP	10 01 31
CSC	iP	10 00 12
	eS	09 10
EUR	iP	09 57 20
	i	58 30
	iPcP	59 05
	iPP	59 24
	e	10 00 23
	i	01 14
	iScP	02 51
	i	03 17
	iS	03 57
	e	05 04
	eP'P'	28 29
FGU	iP	09 57 42
	e	59 58
	eScP	10 03 02
	eS	04 34
GCA	iP	09 57 52
	eScP	10 02 55
GUA	eP	09 57 49
HON	eP	09 55 56
HHM	iP	09 56 48
	iPcP	58 53
	iScP	10 02 33
	eScS	06 50
KIP	iP	09 55 55
RCD	eP	09 57 57
SLC	iP	09 57 34
SJP	iP	10 02 05
	ipP	02 16
TUC	iP	09 58 20
	i	59 33
	iPcP	59 36
	iPP	10 00 21
	e	01 21
	eS	05 42

Date and Station		Phase (GCT)
		h m s
TUT	iP	09 58 20
UKI	eP	09 56 44
WAS	eP	09 59 57
Sept. 4		
COL	e(P)	10 27 57
Sept. 4		
COL	eP	13 48 07
EUR	iP	13 47 44
FGU	eP	13 48 07
Sept. 4		
HHM	iP	16 21 10
Sept. 4		
COL	eP	16 39 08
EUR	iP	16 36 17
	i	36 52
SJP	eP	16 29 42
	e	31 29
Sept. 4		
COL	eP	17 20 54
	i	21 04
	i	21 16
EUR	iP	17 24 31
	ipP	24 44
	i	25 00
	iPcP	25 36
HHM	e(P)	17 23 58
Sept. 4		
BCN	eP	18 52 32
COL	eP	18 48 35
	i	48 43
	i	48 54
EUR	iP	18 52 06
	e	52 17
FGU	e(P)	18 52 29
	ePcP	53 59
GCA	e(P)	18 52 41
	e	53 44
HHM	e(P)	18 51 34
	e	51 58
Sept. 4		
COL	iP	18 53 55
	i	54 02
	i	54 06
BCN	eP	19 20 08

Date and Station		Phase (GCT)
		h m s
COL	eP	19 16 12
	i	16 21
	i	16 25
	i	16 32
	i	16 39
	i	18 26
EUR	iP	19 19 42
	i	19 55
	e	20 06
	i	20 46
	iPP	21 13
	ePcP	22 02
FGU	eP	19 20 05
GCA	eP	19 20 16
HHM	e(P)	19 19 10
	i	19 27
	iPcP	21 50
SJP	eP	19 24 53
TUC	e(P)	19 20 47
Sept. 4		
HHM	iP	20 01 27
	i	03 16
Sept. 4		
COL	eP	20 31 43
EUR	eP	20 35 11
	i	35 17
	i	35 43
Sept. 4		
COL	iP	22 46 06
EUR	e(P)	22 45 38
GCA	eP	22 45 47
Sept. 4		
BCN	eP	23 42 45
EUR	eP	23 41 04
FGU	e(P)	23 42 34
	e	44 58
GCA	e(P)	23 41 04
	e	43 05
Sept. 5		
HHM	iP	00 52 09
Sept. 5		
COL	eP	00 58 54
	i	59 00
	i	59 11
	i	59 21
	i	59 32
EUR	eP	00 58 21
	e	58 47
	i	58 54

Date and Station		Phase (GCT)
		h m s
FGU	eP	00 58 47
GCA	eP	00 58 31
HHM	eP	00 58 51
TUC	e(P)	00 58 20
Sept. 5		
HHM	i(P)	01 29 29
Sept. 5		
FGU	e(P)	01 53 43
	e	53 49
	eS	54 34
Sept. 5		
COL	eP	02 29 44
	e	29 54
Sept. 5		
BCN	eP	02 47 35
BUT	eP	02 46 18
COL	iP	02 44 19
	i	44 34
	i	44 44
EUR	iP	02 47 10
	e	47 24
	e	47 35
	i	47 40
	iPcP	48 13
	i	48 29
	e	48 59
	ePP	49 31
	i	49 45
FGU	eP	02 46 51
GCA	eP	02 47 22
RCD	e(P)	02 46 15
Sept. 5		
HHM	iP	03 01 02
Sept. 5		
FGU	e(P)	03 54 48
	e(S)	55 39
Sept. 5		
GCA	e(P)	04 15 27
	e	15 47
Sept. 5		
BUT	eP	06 26 16
Sept. 5		
COL	iP	06 24 13
	i	24 27
	i	24 45
	i	25 01
	i	25 23

Date and Station		Phase (GCT)
		h m s
EUR	iP	06 26 44
	iPP	30 52
	i	31 29
	i	32 10
FGU	e(P)	06 26 44
GCA	e(P)	06 27 06
HHM	eP	06 26 04
Sept. 5		
EUR	eP	06 37 25
	e	37 34
Sept. 5		
EUR	iP	06 42 48
	i	42 56
	e	43 06
Sept. 5		
GCA	eP	08 07 19
Sept. 5		
FGU	eP	08 32 52
Sept. 5		
BCN	eP	08 42 49
EUR	eP	08 43 28
	i	43 55
FGU	eL	08 46 21
GCA	eP	08 43 04
	e	43 20
	e	44 17
Sept. 5		
COL	iP	09 18 54
	ipP	19 06
EUR	iP	09 22 14
	i(pP)	22 25
	i	22 55
	i	24 09
Sept. 5		
EUR	iP	09 34 39
	i	34 51
Sept. 5		
EUR	iP	10 19 26
	e	19 51
	i	20 05
Sept. 5		
COL	eP	10 39 31
	i	39 42
	i	40 08
EUR	iP	10 42 58
	e	43 23
	i	43 48
FGU	e(P)	10 43 21
HHM	eP	10 42 28

Date and Station		Phase (GCT)
		h m s
Sept. 5		
BCN	iP	11 41 15
BOZ	eP	11 40 21
	eS	45 01
BUT	eP	11 40 12
	eS	44 44
COL	iP	11 35 55
	iS	37 10
CSC	eP	11 43 38
	eS	50 50
EUR	iP	11 40 43
	ipP	40 57
	isP	41 10
	iPP	41 42
	i	43 08
	iPcP	43 45
	i	44 01
	eS	45 32
	iScP	47 23
	ePcS	47 45
	eScS	51 26
	e	52 23
FGU	iP	11 40 58
	ipP	41 10
GCA	iP	11 41 19
	epP	41 31
	e	45 59
GUA	iP	11 45 18
HON	iP	11 42 02
	iS	48 02
HHM	iP	11 39 50
	iPcP	43 37
KIP	iP	11 42 01
	i	42 25
SLC	eP	11 40 51
	eS	45 53
SJP	iP	11 45 54
	ipP	46 06
SIT	eP	11 36 36
	eL	39 20
TUC	iP	11 41 55
	i	43 07
	iPP	43 37
	iPcP	44 06
	e	47 10
TUT	iP	11 41 55
UKI	eP	11 40 20
WAS	iP	11 43 25
	iPP	45 29
	i(S)	50 29
	iL	56 13

Date and Station		Phase (GCT)
		h m s
Sept. 5		
EUR	eP	12 12 42
Sept. 5		
COL	iP	14 00 48
	iS	01 45
EUR	iP	14 05 35
	ipP	05 47
	iPP	06 29
GCA	eP	14 06 11
HHM	eP	14 04 41
	ipP	04 53
Sept. 5		
COL	iP	14 21 45
	i	21 48
HHM	iP	14 23 15
Sept. 5		
COL	iP	16 46 29
Sept. 5		
EUR	iP	17 10 19
	e	10 33
	e	10 46
Sept. 5		
EUR	iP	17 12 18
	i	12 34
HHM	iP	17 12 05
	e	12 20
Sept. 5		
COL	iP	19 21 44
Sept. 5		
BCN	iP	19 40 52
Sept. 5		
FGU	eP	20 29 10
Sept. 5		
COL	eP	21 18 51
EUR	eP	21 20 42
	e	21 01
	i	21 26
GUA	iP	21 08 26
	eS	08 59
Sept. 5		
COL	eP	22 31 17
Sept. 5		
EUR	eP	22 49 19
Sept. 6		
EUR	iP	03 15 04
	i	15 30
Sept. 6		
COL	iP	03 25 17
	i	25 28
		8-4297-4A
	i	25 42

Date and Station		Phase (GCT)
		h m s
FGU	e(P)	03 30 20
HHM	eP	03 29 22
Sept. 6		
EUR	iP	05 36 44
Sept. 6		
FGU	eP	07 20 16
	i	20 18
	e	20 42
GCA	eP	07 20 37
	e	21 12
Sept. 6		
COL	eP	08 26 55
	i	27 10
	i	27 53
EUR	i(P)	08 29 54
	iP'	32 47
	iPP	33 23
GUA	iP	08 18 50
HHM	iP'	08 32 41
SJP	eP'	08 34 10
	i	34 38
Sept. 6		
COL	iP	08 38 42
	i	38 49
EUR	eP	08 37 44
	i	38 09
	i	38 17
HHM	iP	08 37 54
Sept. 6		
EUR	iP	08 43 49
	i	44 01
GCA	e(P)	08 43 29
Sept. 6		
EUR	iP	09 32 42
Sept. 6		
COL	eP	09 43 32
	i	43 35
	i	43 47
	i	43 54
	i	44 04
EUR	iP	09 47 00
	i	47 14
	i	47 20
FGU	eP	09 47 46
HHM	iP	09 46 29
	e	47 39
	i	47 54
Sept. 6		
COL	eP	09 51 45

Date and Station		Phase (GCT)
		h m s
Sept. 6		
EUR	eP	09 53 19
	i	53 54
Sept. 6		
COL	iP	12 34 47
Sept. 6		
COL	e(P)	13 05 19
	i	05 44
Sept. 6		
COL	iP	13 47 00
	ipP	47 45
Sept. 6		
BCN	eP	15 40 11
COL	iP	15 43 23
	ipP	43 32
EUR	iP	15 40 32
	i	40 45
	i	41 45
	i	42 35
GCA	e(P)	15 40 20
HHM	eP	15 41 10
SJP	iP	15 36 43
Sept. 6		
GCA	eP	18 36 26
	e	37 27
Sept. 6		
COL	e(P)	19 12 33
EUR	iP	19 09 22
	i	09 27
	i	09 32
Sept. 6		
EUR	eP	19 15 53
	e	16 04
	i	16 26
Sept. 6		
GCA	e(P)	19 25 49
	e	26 35
Sept. 6		
HHM	eP	20 15 42
Sept. 6		
GCA	e(P)	22 01 27
Sept. 6		
EUR	iP	22 26 25
Sept. 6		
COL	i(P)	22 39 03
Sept. 6		
EUR	eP	22 57 34
Sept. 6		
EUR	iP	23 19 54

Date and Station		Phase (GCT)
		h m s
Sept. 6		
GCA	eP	23 47 35
SLC	eP	23 46 09
Sept. 7		
COL	e(P)	01 38 08
Sept. 7		
EUR	iP	02 58 35
Sept. 7		
COL	iP	05 32 28
EUR	eP	05 37 15
	i	37 06
HHM	e(P)	05 36 25
Sept. 7		
EUR	e(P)	06 49 28
Sept. 7		
EUR	iP	13 15 11
	i	15 42
	i	16 43
	i	17 24
Sept. 7		
EUR	eP	16 56 03
	i	56 26
	e	56 40
Sept. 7		
EUR	e(P)	17 59 43
Sept. 7		
EUR	eP	18 06 54
Sept. 7		
UKI	eP	18 47 33
Sept. 7		
EUR	iP	19 12 45
Sept. 7		
EUR	eP	20 52 06
Sept. 7		
EUR	eP	20 58 17
Sept. 7		
EUR	eP	21 36 28
	i	36 30
	i	37 11
Sept. 7		
EUR	eP	22 30 50
Sept. 7		
EUR	iP	22 52 24
	e	52 37
GCA	e(P)	22 52 03
	eS	52 56
Sept. 7		
EUR	iP	23 22 39
Sept. 7		
EUR	eP	23 26 32

Date and Station		Phase (GCT)
		h m s
Sept. 8		
BOZ	e(P)	00 10 52
COL	iP	00 05 48
	eS	06 10
EUR	iP	00 11 24
	ipP	11 48
	iPP	12 26
	iPcP	14 15
	iScP	17 47
HHM	iP	00 10 25
Sept. 8		
EUR	iP	00 35 24
	i	35 36
Sept. 8		
COL	iP	02 54 05
EUR	iP	02 53 35
GCA	eP	02 53 46
Sept. 8		
COL	iP'	03 20 16
	i	20 21
EUR	iP	03 14 04
	e	14 26
TUT	eP	03 13 22
Sept. 8		
EUR	eP	03 20 50
Sept. 8		
BCN	iP	04 56 38
BOZ	eP	04 55 37
HHM	iP	04 54 55
	iL	57 51
BUT	eP	04 55 23
	eL	59 02
COL	iP	04 55 50
	i	56 21
	i	57 08
	eS	59 02
	i	05 00 15
CSC	eP	04 59 43
	eL	05 13 08
EUR	eP	04 55 56
	e	57 48
	iS	59 03
	e	05 02 11
GCA	eP	04 56 46
RCD	eP	04 56 44
SLC	eP	04 56 03
SJP	eP	05 02 18

B-4297-4

Date and Station		Phase (GCT)	
		h m s	
SIT	eP	04 53 38	
TUC	eP	04 57 29	
	i	57 30	
	e(S)	05 01 40	
TUT	eP	04 57 29	
UKI	eP	04 55 28	
WAS	eP	04 59 42	
	i	05 13 08	
	i	16 06	
	i	17 42	
	i	19 06	
Sept. 8			
EUR	eP	06 06 48	
SJP	eP	06 03 00	
Sept. 8			
EUR	eP	06 17 00	
SJP	eP	06 13 11	
Sept. 8			
COL	iP	07 23 24	
EUR	iP	07 26 47	
Sept. 8			
COL	eP	08 40 58	
EUR	iP	08 40 34	
Sept. 8			
GCA	e(P)	09 14 48	
	e	14 55	
	e	16 55	
Sept. 8			
COL	e(P)	10 25 56	
	e	26 12	
Sept. 8			
BHP	iP	11 38 18	
	iS	47 52	
BCN	eP'	11 45 07	C
	e	47 31	
	e	48 13	
	e	48 33	
	ePKKP	55 29	
BOZ	eP'	11 45 17	C
BUT	eP'	11 45 19	C
COL	iP'	11 46 00	
	iSKS	53 54	
	i	12 03 44	
CSC	eP	11 40 10	C
EUR	eP	11 41 42	
	epP	42 05	
	isP	42 18	
	eP'	45 09	
	i	45 16	
	ipP'	45 38	
	iPP	46 40	
	i	46 51	
	ePPP	49 19	
	e	49 25	
	epPPP	49 45	
	e	50 49	
	eSKKS	53 06	
	ePKKP	55 14	
	i	55 44	
	e	58 32	
	e	12 00 13	
GCA	eP	11 41 24	
	iP'	45 04	
	eSKS	51 50	
GUA	eP'	11 45 33	C
	e	46 11	
	ePP	48 23	
	e	49 05	
HON	iP'	11 45 30	D
	eSKKP	58 00	
HHM	iP'	11 45 06	C
	iPP	47 20	
	iPPP	50 02	
	iSKKP	58 40	
KIP	iP'	11 45 30	
RCD	eP'	11 45 04	
SLC	eP'	11 45 10	C
	ePP	46 37	
	eSKS	51 33	
SJP	iP	11 38 35	C
	iPP	41 45	
	e(S)	48 35	
SIT	eP'	11 45 47	
TUC	e(P)	11 41 08	(D)
	epP	41 42	
	esP	41 54	
	iP'	44 56	
	iPP	45 52	
	e	48 52	
	iSKS	51 34	
	eSKKS	52 33	
	ePKKP	55 45	
	eSKKP	59 19	
TUT	eP	11 41 09	
	iP'	44 56	
UKI	eP'	11 45 20	C
WAS	eP	11 40 23	C
	i	43 22	
	iPP	44 41	
	iPPP	46 58	
	e(S)	53 16	
Sept. 8			
COL	eP	12 03 44	
Sept. 8			
EUR	iP	12 24 26	
Sept. 8			
COL	eP	13 02 52	
Sept. 8		h m s	
EUR	iP	16 17 03	
Sept. 8			
COL	eP	17 17 31	
Sept. 8			
EUR	eP	20 21 26	
SLC	eP	20 23 52	
Sept. 8			
EUR	e(P)	21 01 12	
Sept. 8			
EUR	iP	21 07 50	
Sept. 8			
EUR	iP	22 19 34	
Sept. 8			
COL	iP	23 21 38	
Sept. 8			
EUR	eP	23 28 53	
	e	29 31	
Sept. 8			
COL	iP	23 58 01	
EUR	eP	24 40 38	
	i	40 47	
	i	41 27	
Sept. 9			
EUR	eP	05 00 32	
Sept. 9			
EUR	eP	05 17 35	
Sept. 9			
COL	eP	08 55 25	
	i	55 33	
Sept. 9			
BCN	eP	09 18 15	
BOZ	eP	09 17 41	
BUT	eP	09 17 30	
COL	iP	09 14 16	
	i	14 27	
	i	14 36	
EUR	iP	09 17 47	
GCA	e(P)	09 18 10	
	e	18 22	
GUA	eP	09 20 42	
HHM	iP	09 17 13	
	iPcP	19 48	
RCD	eP	09 18 25	
TUC	eP	09 18 51	
TUT	e(P)	09 18 45	
Sept. 9			
COL	iP	09 25 08	
	i	25 14	
EUR	iP	09 27 57	
	ipP	28 31	
HHM	iP	09 27 30	
	i	28 14	
Sept. 9			
BCN	eP	11 55 31	
COL	iP	11 51 36	
	i	51 46	
	i	51 51	
	i	52 08	
	i	52 19	
	eS	55 16	
EUR	eP	11 55 03	
	e	55 22	
HHM	iP	11 54 32	
	i	55 10	
TUC	e(P)	11 57 04	
Sept. 9			
EUR	eP	13 19 45	
	i	20 27	
Sept. 9			
COL	eP	15 28 03	
	i	28 17	
Sept. 9			
COL	iP	15 36 18	
	i	36 48	
EUR	eP	15 36 47	
Sept. 9			
EUR	eP	16 02 54	
Sept. 9			
COL	e(P)	16 08 35	
Sept. 9			
BHP	iP	19 13 57	
	iS	16 39	
BCN	eP	19 18 30	
BOZ	eP	19 19 21	
COL	eP	19 22 29	
	ipP	22 39	
EUR	eP	19 18 56	
	e	19 01	
	e	19 36	
GCA	eP	19 18 25	
HHM	iP	19 19 44	
RCD	eP	19 18 53	
SLC	eP	19 18 49	
SJP	e(P)	19 16 49	

B-4097-4

Date and Station		Phase (GCT) h m s
TUC	eP	19 17 48
Sept. 9		
EUR	eP	20 27 28
Sept. 9		
CSC	e(P)	22 46 45
Sept. 10		
COL	eP	01 06 49
Sept. 10		
COL	iP	01 25 21
	i	25 29
HHM	iP	01 24 33
Sept. 10		
COL	iP	01 49 33
	i	49 58
EUR	iP	01 53 07
TUC	eP	01 54 00
Sept. 10		
EUR	eP	03 04 07
Sept. 10		
COL	eP	03 18 19
	i	18 27
Sept. 10		
TUC	eP	04 24 17
Sept. 10		
SLC	eP	04 46 32
Sept. 10		
BCN	eP	04 56 24
	epP	58 15
BUT	eP	04 56 53
	epP	58 50
EUR	iP	04 56 30
	e	56 52
	i	57 40
	i	58 34
	e(S)	05 05 56
	ePKKP	15 22
GCA	eP	04 56 18
	epP	58 11
HHM	iP	04 57 04
	ipP	59 02
	iS	05 06 44
	iPKKP	15 14
SJP	iP	04 52 25
	i	52 44
	ipP	54 14
TUC	eP	04 55 56
TUT	iP	04 55 55
	ipP	57 48
Sept. 10		
CSC	eP	05 02 02

Date and Station		Phase (GCT) h m s
SJP	iP	04 57 55
Sept. 10		
COL	e(P)	05 19 24
Sept. 10		
TUC	e(P)	06 42 41
	i	44 56
	iL	45 47
Sept. 10		
BCN	eP	06 48 14
Sept. 10		
EUR	e(P)	07 21 51
Sept. 10		
COL	iP	09 07 51
Sept. 10		
COL	eP	09 10 45
	e	13 35
EUR	iP	09 11 01
Sept. 10		
EUR	iP	09 57 40
Sept. 10		
EUR	eP	10 56 34
Sept. 10		
EUR	eP	11 44 40
SIT	eP	11 39 59
Sept. 10		
EUR	iP'	12 00 10
Sept. 10		
COL	eP	14 58 05
	epP	59 03
Sept. 10		
EUR	iP	15 47 48
TUC	eP	15 46 38
Sept. 10		
COL	iP	16 29 18
	i	29 23
HHM	e(P)	16 30 20
Sept. 10		
TUT	eP	17 54 48
Sept. 10		
BCN	eP	18 21 37
COL	eP	18 22 13
EUR	iP	18 21 43
TUT	iP	18 21 40
Sept. 10		
COL	iP	18 27 46
	epP	29 57
EUR	iP	18 27 28

Date and Station		Phase (GCT) h m s
TUC	iP	18 27 28
TUT	eP	18 27 29
Sept. 10		
EUR	eP	21 55 50
Sept. 11		
COL	iP	01 41 30
Sept. 11		
BCN	eP	02 55 25
BOZ	eP	02 54 58
BUT	eP	02 54 46
	eScP	03 00 29
	eS	01 46
COL	iP	02 51 34
	i	51 44
	i	52 07
	eS	55 39
CSC	eP	02 57 54
EUR	iP	02 55 03
	epP	55 16
	iPcP	56 50
	iScP	03 00 33
	eS	01 52
GCA	e(P)	02 55 27
HHM	iP	02 54 32
	i	55 47
	iScP	03 00 20
	i	01 32
RCD	eP	02 55 40
SLC	eP	02 55 20
SJP	iP	02 59 45
	i	59 53
TUC	eP	02 56 03
TUT	eP	02 56 03
	ipP	56 17
	i	56 40
Sept. 11		
EUR	iP	03 19 05
Sept. 11		
COL	iP	03 48 39
Sept. 11		
COL	iP'	04 15 22
Sept. 11		
BCN	eP	04 42 42
BOZ	eP	04 42 33
BUT	eP	04 42 19
COL	iP	04 45 01
	i	45 06
	i	45 21
	i	45 31
	ePcP	48 46

Date and Station		Phase (GCT) h m s
CSC	eP	04 46 52
EUR	iP	04 42 02
	e	42 45
	i	43 32
GCA	e(P)	04 42 49
HHM	iP	04 42 12
	i	43 15
RCD	eP	04 43 44
SLC	eP	04 42 33
SJP	eP	04 49 28
TUC	eP	04 43 47
UKI	eP	04 41 03
Sept. 11		
COL	iP	05 32 37
Sept. 11		
BCN	eP	06 08 19
EUR	iP	06 08 37
	e	09 21
GCA	iP	06 08 16
HHM	iP	06 09 06
	i	09 50
SJP	iP	06 04 53
TUC	eP	06 07 51
Sept. 11		
BOZ	eP	06 14 46
BUT	iP	06 15 03
EUR	e(P)	06 16 05
	e	16 24
HHM	e(P)	06 15 46
Sept. 11		
COL	iP	07 15 31
	i	15 43
EUR	eP	07 18 57
Sept. 11		
EUR	eP	08 36 58
Sept. 11		
COL	iP	09 07 30
	i	07 45
EUR	iP	09 10 59
	epP	11 12
HHM	iP	09 10 28
Sept. 11		
COL	e(P)	09 10 03
EUR	iP	09 14 28

B-4097-4

Date and Station		Phase (GCT)
Sept. 11		h m s
COL	iP	09 19 14
EUR	iP	09 23 00
Sept. 11		
COL	iP	09 52 06
	i	52 17
	i	52 36
EUR	iP	09 55 26
	epP	55 41
HHM	iP	09 55 03
Sept. 11		
EUR	eP	11 55 28
Sept. 11		
COL	iP	13 28 06
	i	28 27
	iS	29 28
	iL	29 42
	i	31 36
	i	32 25
HHM	iP	13 31 28
Sept. 11		
EUR	e(P)	14 59 55
	e	15 00 04
Sept. 11		
SLC	e(P)	18 13 57
Sept. 11		
EUR	eP	18 31 24
Sept. 11		
COL	eP	20 10 49
	ipP	10 59
	i	11 19
EUR	eP	20 16 27
SJP	eP'	20 18 27
Sept. 11		
EUR	i(P)	22 22 10
Sept. 11		
BCN	eP	22 24 12
BOZ	eP	22 24 14
BUT	eP	22 24 23
COL	iP	22 26 44
	iPP	29 47
CSC	eP	22 20 49
EUR	iP	22 24 24
	e	24 41
	iPcP	25 23
GCA	iP	22 23 56
HHM	iP	22 24 35
	ipP	25 05
	iPcP	25 29
SLC	eP	22 24 05
SJP	eP	22 17 01
	i	17 03
	i	17 11
	iS	18 25
TUT	iP	22 23 41
	i	23 58
Sept. 11		
COL	i(P)	22 52 54
Sept. 11		
COL	iP	23 55 16
	ipP	55 28
	i	55 50
EUR	iP	23 58 31
	ipP	58 44
	e(PP)	24 01 12
HHM	iP	23 58 02
	ipP	58 14
Sept. 12		
COL	iP	00 28 55
	e	31 50
EUR	e(P)	00 28 35
Sept. 12		
BCN	eP	00 36 55
Sept. 12		
BCN	eP	00 47 17
EUR	e(P)	00 47 29
	e	48 12
	i	48 17
GCA	e(P)	00 47 50
TUC	e(P)	00 46 56
	i	48 27
Sept. 12		
BCN	eP	01 00 34
EUR	e(P)	01 01 23
TUC	e(P)	01 00 13
	e	01 41
Sept. 12		
BCN	eP	01 09 57
EUR	e(P)	01 10 46
	e	13 48
TUC	e(P)	01 09 15
	i	10 44
Sept. 12		
COL	iP	01 27 05
EUR	iP	01 27 13
	epP	28 07
Sept. 12		
COL	eP	05 32 08
	ipP	32 19
EUR	eP	05 32 35
Sept. 12		
COL	iP	05 38 29
EUR	iP	05 44 17
	iPcP	47 11
HHM	iP	05 43 28
	ipP	43 49
RCD	eP	05 44 30
TUC	eP	05 45 29
TUT	eP	05 45 29
Sept. 12		
COL	iP	08 13 49
	i	14 23
EUR	iP	08 13 18
TUC	iP	08 13 20
TUT	iP	08 13 19
Sept. 12		
BCN	eP	09 34 16
BUT	e(P)	09 35 14
COL	iP	09 38 35
	i	39 11
	iPcP	39 23
CSC	eP	09 33 08
EUR	iP	09 34 43
HHM	eP	09 35 33
TUC	eP	09 33 31
TUT	eP	09 33 31
Sept. 12		
COL	iP	10 15 57
EUR	iP	10 19 07
HHM	iP	10 18 07
Sept. 12		
BCN	iP	11 28 00
COL	iP	11 30 49
	epP	32 47
EUR	iP	11 28 18
	e(PcP)	28 45
	epP	30 11
	i(PP)	31 02
GCA	eP	11 27 49
	eS	29 02
HHM	iP	11 28 47
	iPcP	29 18
TUC	iP	11 27 26
TUT	iP	11 27 26
Sept. 12		
EUR	e(P)	11 36 04
Sept. 12		
COL	eP	12 11 01
EUR	iP	12 10 31
TUC	eP	12 10 30
Sept. 12		
BCN	iP	12 38 21
BUT	eP	12 37 49
COL	iP	12 34 45
	ipP	34 57
	i	35 08
	i	35 23
EUR	iP	12 38 03
	ipP	38 14
	e	38 45
	e	39 07
HHM	iP	12 37 34
	i	37 42
	i	37 58
RCD	iP	12 38 27
SLC	eP	12 38 12
TUC	iP	12 38 50
TUT	eP	12 38 50
	i	38 51
Sept. 12		
EUR	iP	15 54 16
	i	54 28
Sept. 12		
COL	eP	16 57 07
	i	57 13
Sept. 12		
COL	eP	16 59 13
	i	59 19
Sept. 12		
BCN	iP	19 19 38
	e	24 45
BOZ	eP	19 22 02
BUT	eP	19 22 03
	eL	25 35
	e	26 23
COL	iP	19 26 05
EUR	iP	19 20 28
	eL	22 36

B-4197-4

Date and Station		Phase (GCT)
		h m s
GCA	eP	19 20 05
	i	20 15
	iL	21 31
HHM	iP	19 22 30
	iL	27 20
RCD	eP	19 22 23
	eL	26 25
SLC	eP	19 20 53
SJP	e(P)	19 27 13
TUC	iP	19 19 36
	iS	20 21
	iL	20 27
TUT	iP	19 19 38
Sept. 12		
GCA	e(P)	19 40 08
Sept. 12		
COL	iP'	19 49 00
	i	49 10
HHM	iP'	19 48 10
SJP	e(P)	19 41 32
Sept. 12		
BCN	eP	19 53 31
Sept. 12		
BCN	eP	20 02 29
EUR	iP	20 03 36
Sept. 12		
BCN	eP	20 40 27
EUR	e(P)	20 41 09
	e	41 38
	i(S)	43 11
GCA	e(P)	20 41 00
Sept. 12		
HHM	e(P)	22 14 16
Sept. 12		
EUR	iP	22 48 33
Sept. 12		
FGU	eP	23 50 36
	e	51 11
SLC	eP	23 50 03
Sept. 13		
BCN	eP	00 16 39
EUR	eP	00 17 39
Sept. 13		
COL	iP	01 57 51
Sept. 13		
COL	iP	03 18 05
	ipP	18 28

Date and Station		Phase (GCT)
		h m s
EUR	eP	03 19 15
SJP	eP'	03 25 10
Sept. 13		
EUR	e(P)	04 30 44
Sept. 13		
BCN	iP	04 34 07
EUR	eP	04 34 44
	i	35 17
	i	36 34
	e	36 57
FGU	eL	04 38 09
GCA	eP	04 34 38
TUC	e(P)	04 34 03
	iS	34 49
	iL	34 52
TUT	e(P)	04 34 02
Sept. 13		
EUR	eP	06 46 10
Sept. 13		
EUR	iP	07 26 32
HHM	eP	07 25 59
Sept. 13		
BCN	eP	11 27 06
EUR	eP	11 27 54
	i	28 27
	e	30 03
FGU	eL	11 29 08
	e	31 11
TUC	e(P)	11 27 03
	iS	27 57
	e	28 00
TUT	e(P)	11 27 04
Sept. 13		
COL	iP	11 28 02
	i	28 14
Sept. 13		
EUR	eP	11 38 58
TUT	e(P)	11 38 03
Sept. 13		
COL	iP	12 53 55
Sept. 13		
HHM	eP	13 25 20
Sept. 13		
BHP	eP	13 28 16
Sept. 13		
COL	eP	14 17 48
EUR	iP'	14 23 41

Date and Station		Phase (GCT)
		h m s
FGU	e(P')	14 23 49
	e	27 04
HHM	eP'	14 23 34
Sept. 13		
COL	iP	16 00 40
Sept. 13		
BCN	iP	21 31 55
BOZ	eP	21 32 16
BUT	eP	21 32 34
COL	iP'	21 38 06
	i	38 14
	i	38 42
	iPP	39 35
CSC	e(P)	21 31 00
EUR	iP	21 32 12
	ipP	32 22
	i	33 02
	e	40 01
	ePKKP	49 43
	eP'P'	57 59
FGU	eP	21 32 06
	ePKKP	49 53
GCA	eP	21 31 53
HHM	iP	21 32 43
	iPKKP	50 04
RCD	eP	21 32 10
SJP	iP	21 29 23
	ipP	29 32
TUC	iP	21 31 29
	eL	55 25
TUT	eP	21 31 30
	i	31 31
	ipP	31 48
	i	32 02
UKI	e(P)	21 32 26
WAS	eP	21 31 34
	ePP	34 34
Sept. 13		
FGU	eP	23 08 02
	eS	09 12
Sept. 13		
COL	eP	23 26 05
	ipP	26 24
EUR	iP	23 29 11
	epP	29 30
Sept. 13		
FGU	eP	23 52 35
	e	53 00

Date and Station		Phase (GCT)
Sept. 14		h m s
BOZ	e(P)	01 14 03
EUR	eP	01 13 42
FGU	eP	01 13 22
TUC	eP	01 12 31
TUT	eP	01 12 31
	i	12 32
Sept. 14		
BOZ	e(P)	01 18 32
COL	eP	01 22 00
	i	22 39
EUR	iP	01 18 20
FGU	e(P)	01 17 54
HHM	iP	01 19 00
SJP	e(P)	01 16 11
TUC	e(P)	01 17 14
TUT	eP	01 17 13
Sept. 14		
WAS	iP	01 58 33
Sept. 14		
COL	e(P)	04 34 17
Sept. 14		
EUR	eP	05 47 50
	e(S)	48 58
Sept. 14		
EUR	iP	06 26 42
Sept. 14		
COL	iP	08 15 25
	i	15 31
	ipP	15 36
HHM	e(P)	08 16 38
Sept. 14		
EUR	eP	08 32 51
Sept. 14		
COL	iP	10 03 56
EUR	iP	10 07 06
HHM	iP	10 06 05
Sept. 14		
EUR	iP	10 49 55
Sept. 14		
EUR	iP	13 40 33
Sept. 14		
COL	eP	14 01 38

B-4297-4+

Date and Station		Phase (GCT)
		h m s
Sept. 14		
COL	eP	16 46 54
Sept. 14		
BCN	iP	18 51 28
Sept. 14		
COL	iP	18 56 57
	epP	58 59
EUR	iP	18 56 36
FGU	eP	18 56 59
Sept. 14		
COL	iP	19 42 34
Sept. 14		
COL	e(P)	21 14 36
FGU	e(P)	21 17 06
Sept. 14		
COL	iP	21 59 24
EUR	iP	22 02 24
	i(pP)	02 39
FGU	eP	22 02 42
HHM	iP	22 02 00
	i	02 09
	i	05 33
Sept. 14		
COL	iP	22 51 19
	ePP	54 37
Sept. 14		
COL	eP	23 23 52
Sept. 14		
SLC	eP	23 56 44
Sept. 15		
COL	i(P)	00 42 43
EUR	iP	00 43 39
Sept. 15		
BUT	eP	01 59 26
	ePP	02 03 14
COL	iP	01 58 20
	eS	02 08 22
	eP'P'	24 56
	e	27 48
	eSKPP'	28 15
CSC	eP	01 59 00
EUR	iP	01 59 58
	eP'	02 03 20
	ePKKP	16 09
FGU	eP	01 59 41
	e	02 00 10
	e	01 41
	e	15 05
	ePKKP	16 18

Date and Station		Phase (GCT)
		h m s
HHM	iP	01 59 18
SLC	eP	01 59 47
SJP	iP	01 58 57
	ipP	59 09
	e	59 23
TUC	e(P)	02 00 18
	ePKKP	15 56
TUT	eP	02 00 17
	ePKKP	15 56
WAS	eL	02 16 59
Sept. 15		
BCN	eP	03 00 12
	e	04 28
Sept. 15		
COL	i(P)	03 28 42
Sept. 15		
EUR	iP	04 17 27
Sept. 15		
COL	eP	06 55 09
	i	55 20
Sept. 15		
COL	eP	09 39 51
	i	40 55
Sept. 15		
COL	eP	09 44 53
Sept. 15		
COL	iP	10 18 59
EUR	iP	10 19 36
	i	20 16
Sept. 15		
COL	e(P)	10 27 01
Sept. 15		
COL	eP	11 47 05
Sept. 15		
EUR	eP	12 24 35
Sept. 15		
COL	eP	13 47 08
EUR	iP	13 47 59
	i	48 08
Sept. 15		
COL	e(P)	14 31 26
Sept. 15		
BCN	eP	14 37 49
Sept. 15		
COL	iP	14 51 38
Sept. 15		
COL	e(P)	15 44 46
	e	49 36

Date and Station		Phase (GCT)
		h m s
Sept. 15		
BCN	eP	17 00 30.3
BOZ	e(P)	17 02 20.1
BUT	eP	17 02 20.5
COL	iP	17 06 42.8
EUR	iP	17 00 39.6
FGU	iP	17 01 41.8
	i	02 05.0
	e	03 07.5
	i	03 25.5
HHM	eP	17 02 46.0
SLC	eP	17 01 19.6
TUT	iP	17 01 41.5
UKI	e(P)	17 01 49.4
Sept. 15		
COL	e(P)	17 33 21
Sept. 15		
COL	e(P)	17 47 04
	e	48 03
Sept. 15		
HHM	e(P)	19 30 52
Sept. 15		
HHM	iP'	21 43 05
Sept. 15		
BCN	eP	22 25 23
Sept. 15		
FGU	eP	22 43 18
Sept. 15		
FGU	eP	23 51 29
SLC	eP	23 50 58
	e	51 20
Sept. 16		
COL	iP	00 20 42
	i	20 50
	i	21 07
Sept. 16		
BCN	eP	03 27 55
BOZ	eP	03 26 50
BUT	eP	03 26 35
COL	eP	03 30 09
	i	30 23
FGU	eP	03 27 32
	e	28 20
	eL	30 25
HHM	iP	03 26 24
	iL	28 30
RCD	e(P)	03 28 21

Date and Station		Phase (GCT)
		h m s
SLC	eP	03 27 12
Sept. 16		
BCN	eP	05 15 25
	e	16 09
Sept. 16		
EUR	iP	05 52 23
	i	54 09
BCN	eP	05 51 37
	eL	52 27
FGU	e(L)	05 55 36
Sept. 16		
COL	iP	09 09 39
Sept. 16		
COL	eP	09 15 55
HHM	iP	09 19 06
Sept. 16		
BCN	eP	09 59 14
Sept. 16		
COL	i(P)	10 32 55
Sept. 16		
COL	eP	10 57 01
Sept. 16		
COL	e(P)	11 10 34
Sept. 16		
BUT	e(L)	11 49 05
COL	i(P)	11 46 16
HHM	e(P)	11 47 31
Sept. 16		
BCN	eP	12 01 48
Sept. 16		
BUT	eP	12 21 28
COL	iP	12 19 03
	i	19 18
	i	19 30
FGU	eP	12 21 46
	e	23 46
GUA	eP	12 13 16
HHM	iP	12 21 17
Sept. 16		
BCN	eP	12 52 04
EUR	eP	12 52 50
	e	53 11
	i	54 27
Sept. 16		
RCD	e(P)	13 26 20

8-4297-4+

Date and Station		Phase	(GCT) h m s
Sept. 16			
BCN	iP		13 37 24
Sept. 16			
BCN	eP		13 42 16
BOZ	eP		13 42 01
COL	iP		13 43 56
	ePP		47 06
HHM	iP		13 42 15
	i		42 44
EUR	iP		13 42 21
	i		42 51
	e(PP)		45 21
SJP	e(P)		13 36 07
Sept. 16			
BCN	eP		15 24 37
Sept. 16			
BCN	eP		17 03 07
TUT	e(P)		17 03 12
Sept. 16			
BCN	eP		17 27 57
COL	iP		17 23 51
	i		23 54
	i		24 06
	i		24 31
EUR	iP		17 27 35
	epP		27 45
	e		27 52
	e		28 11
HHM	eP		17 26 57
RCD	e(P)		17 28 00
Sept. 16			
SLC	e(P)		18 19 40
Sept. 16			
EUR	e(P)		19 01 28
Sept. 16			
EUR	i(P)		19 20 07
Sept. 16			
BCN	eP		19 50 29
EUR	iP		19 51 18
	e		51 34
	e		51 46
	iL		53 04
	e		54 35
FGU	eP		19 52 02
	e		52 33
	eL		54 09
TUC	i(P)		19 50 51
TUT	e(P)		19 50 50

Date and Station		Phase	(GCT) h m s
Sept. 16			
COL	iP		20 15 07
	epP		17 21
EUR	eP		20 12 37
FGU	eP		20 12 20
	ipP		14 21
HHM	iP		20 13 06
	ipP		15 10
TUT	eP		20 11 44
Sept. 16			
BOZ	eP		21 16 20
BUT	eP		21 16 25
EUR	e(P)		21 15 17
HHM	iP		21 16 56
	iS		17 37
Sept. 16			
EUR	iP'		21 35 28
FGU	eP'		21 35 24
Sept. 16			
EUR	e(P)		22 04 57
Sept. 16			
EUR	i(P)		22 46 16
Sept. 16			
FGU	eP		23 05 54
Sept. 17			
BCN	eP		00 53 19
	e		53 56
EUR	e(P)		00 55 30
Sept. 17			
COL	eP		01 24 45
Sept. 17			
BCN	eP		01 54 30
EUR	e(P)		01 55 08
	i		56 52
Sept. 17			
BCN	eP		01 59 52
Sept. 17			
COL	eP		03 20 25
	e		20 46
EUR	eP		03 19 55
Sept. 17			
EUR	e(P)		03 59 01
FGU	eP		03 58 40
Sept. 17			
BCN	eP		04 04 15
COL	e(P)		04 02 43

Date and Station		Phase	(GCT) h m s
EUR	eP		04 04 55
	i		05 18
	i		06 30
Sept. 17			
EUR	e(P)		05 16 31
Sept. 17			
COL	eP		05 41 57
Sept. 17			
COL	iP		05 57 49
Sept. 17			
COL	iP		06 21 13
EUR	i(P)		06 21 20
Sept. 17			
BUT	e(P)		08 52 10
Sept. 17			
COL	iP		08 52 56
	i		53 33
	eS		09 01 55
EUR	iP		08 55 25
	ePP		59 22
FGU	eP		08 55 38
	ePP		59 51
	e		09 00 05
HHM	iP		08 55 05
	i		55 31
SJP	eP'		09 01 15
Sept. 17			
COL	iP		13 07 46
EUR	iP		13 11 01
Sept. 17			
COL	eP		15 55 16
Sept. 17			
BCN	eP		15 58 42
BOZ	eP		15 57 51
BUT	eP		15 57 36
COL	eP		16 01 10
	eL		06 51
EUR	iP		15 57 55
	e		58 25
	e		58 39
	eS		59 20
	eL		16 00 11
FGU	eP		15 58 31
	e		59 09
	iL		16 01 37
HHM	iP		15 57 24
	iL		58 51
RCD	eP		15 59 10

Date and Station		Phase	(GCT) h m s
SLC	eP		15 58 13
TUC	eP		15 59 42
TUT	eP		15 59 45
UKI	eP		15 57 38
Sept. 17			
SLC	eP		22 31 38
Sept. 17			
COL	iP		23 34 36
	i		34 42
	ipP		34 51
	i		34 58
	i		35 21
	ePKKP		52 43
EUR	eP		23 35 43
	i		35 49
	ePKKP		51 59
HHM	iP		23 35 48
	i		36 25
HON	iP		23 32 11
	eS		50 24
KIP	iP		23 32 11
SJP	iP'		23 41 39
Sept. 18			
EUR	iP		01 52 18
Sept. 18			
BCN	eP		02 29 14
BUT	eP		02 28 03
	eL		31 09
COL	iP		02 29 42
	i		29 45
	i		29 57
	i		30 04
	i		30 18
	eS		33 27
CSC	eP		02 32 45
EUR	iP		02 28 32
	e		28 40
FGU	eP		02 29 05
	e		30 09
HON	eL		02 41 08
HHM	iP		02 27 42
	iL		30 05
KIP	e(P)		02 32 21
RCD	eP		02 29 34
SLC	eP		02 28 50

B-8097-4

Date and Station		Phase (GCT)
		h m s
SJP	eP	02 35 23
TUT	eP	02 30 11
	i	30 12
	i	30 21
	i	30 36
UKI	eL	02 37 12
Sept. 18		
UKI	iP	02 57 56
EUR	eP	05 01 38
	ipP	01 45
FGU	e(P)	05 01 19
HHM	e(P)	05 02 15
	e	02 31
SJP	eP	04 57 41
Sept. 18		
COL	eP	05 20 43
	i	21 08
HHM	iP	05 21 31
Sept. 18		
COL	i(P)	06 02 18
Sept. 18		
EUR	eP	06 37 41
Sept. 18		
EUR	iP	08 10 31
Sept. 18		
COL	e(P)	08 51 04
	e	51 17
EUR	iP	08 54 30
Sept. 18		
BCN	e(P)	11 05 18
EUR	eP	11 04 37
FGU	e(P)	11 05 40
	e	07 59
Sept. 18		
BCN	eP'	11 19 18
	ePKKP	30 40
BOZ	eP	11 14 12
BUT	eP	11 14 10
COL	iP	11 12 34
	ipP	12 49
	isP	12 58
	i	13 28
EUR	iP	11 14 42
	ipP	14 59
	ePKKP	31 03

Date and Station		Phase (GCT)
		h m s
FGU	e(P)	11 14 30
HHM	iP	11 14 00
	ipP	14 17
	i	15 47
RCD	iP	11 14 10
SLC	eP	11 14 36
Sept. 18		
BCN	eP	12 05 29
EUR	e(P)	12 05 11
	i	10 22
FGU	e(P)	12 06 33
	e	08 09
	e	09 04
	e	10 57
SLC	e(P)	12 08 03
TUC	eP	12 02 48
	i	03 56
	iL	06 15
Sept. 18		
COL	e(P)	12 23 36
	e	25 36
Sept. 18		
BCN	eP	15 50 26
COL	eP	15 50 35
EUR	iP	15 50 30
	i	50 52
TUT	e(P)	15 50 35
Sept. 18		
BCN	eP	19 16 12
Sept. 18		
COL	eP	21 39 37
EUR	eP	21 38 24
RCD	eP	21 39 30
Sept. 18		
EUR	iP	22 24 02
Sept. 18		
FGU	e(P)	22 32 09
Sept. 18		
COL	eP	23 15 16
Sept. 18		
FGU	eP	23 36 05
Sept. 19		
EUR	eP	00 22 38
FGU	eP	00 22 14
Sept. 19		
EUR	iP	02 16 26

Date and Station		Phase (GCT)
Sept. 19		h m s
BHP	iP	02 31 42
	iL	37 20
BCN	eP	02 36 32
	eS	45 28
BUT	eP	02 37 01
	eS	46 19
COL	eP	02 39 03
	i	39 20
	iPP	43 32
	iS	49 34
CSC	eP	02 34 41
	eS	41 50
EUR	iP	02 36 49
	i	37 04
	epP	38 57
	esP	39 50
	ePP	40 04
	i	40 32
	eS	45 59
FGU	iP	02 36 33
	ipP	38 39
	eS	45 26
GUA	eP'	02 44 21
	epP'	46 30
HHM	iP	02 37 12
	i	37 22
	i	38 35
	ipP	39 30
	iPP	40 38
	iPPP	42 32
	iS	46 39
	i	47 29
	iPKKP	55 35
	iP'P'	03 03 42
	iSKPP'	06 00
RCD	iP	02 36 28
SLC	eP	02 36 40
	eS	45 46
SJP	iP	02 32 25
	i	32 49
	ipP	34 15
	eS	37 38
TUC	iP	02 36 04
	epP	38 07
	ePP	38 51
	e(S)	44 38
TUT	iP	02 36 04
	i	36 39
	ipP	38 02
	i	43 27
WAS	iP	02 35 09
	ePP	37 28
	eS	42 30
Sept. 19		
COL	eP	02 48 03
	i	48 37

Date and Station		Phase (GCT)
		h m s
EUR	iP	02 53 23
	e	53 44
FGU	e(P)	02 54 49
Sept. 19		
EUR	e(P)	03 03 12
	e	03 50
	e(S)	06 25
FGU	e(P)	03 01 22
	e	03 14
Sept. 19		
FGU	e(P)	05 59 50
Sept. 19		
BCN	eP	06 11 16
	e	11 53
EUR	iP	06 11 48
	i	12 18
	i	13 33
FGU	e(P)	06 12 02
Sept. 19		
BCN	eP	06 22 46
BOZ	eP	06 22 45
COL	eP	06 20 43
	e	21 32
EUR	iP	06 22 38
FGU	e(P)	06 22 56
	e	22 57
HHM	e(P)	06 22 28
	i	22 52
Sept. 19		
EUR	iP	07 28 05
Sept. 19		
COL	eP	08 48 36
	e	48 56
EUR	eP	08 48 08
Sept. 19		
GUA	eP	09 23 42
EUR	eP'	09 37 23
Sept. 19		
EUR	e(P')	09 51 22
	e	52 20
	i	52 27
TUT	e(P')	09 51 28
Sept. 19		
BHP	iP	09 47 13
	iS	47 58

B-4209F-4

Date and Station		Phase (GCT)
		h m s
BCN	eP	09 54 09
BOZ	eP	09 54 44
BUT	eP	09 54 50
	eS	10 01 39
COL	iP	09 57 52
	ipP	58 02
	i	58 20
	i	58 39
	iPP	10 00 39
	i	00 55
	eS	07 24
CSC	eP	09 52 03
	eS	56 44
EUR	iP	09 54 31
	e	54 36
	e	54 46
	ePP	56 17
	e	57 13
	e	57 39
FGU	iP	09 54 09
	iPcP	55 41
	eS	10 00 06
HHM	iP	09 55 08
	i	55 34
	iPcP	56 31
	iPP	57 09
	i	10 00 33
	eS	02 25
KIP	eP	09 58 08
RCD	eP	09 54 05
SLC	eP	09 54 19
SJP	iP	09 50 48
	eS	54 32
TUC	iP	09 53 28
	ePP	54 53
	i	54 59
	iPcP	55 18
	eS	59 20
	eL	10 01 37
TUT	iP	09 53 28
WAS	iP	09 52 49
	e(S)	57 28
Sept. 19		
COL	eP	10 21 05
Sept. 19		
COL	iP	11 03 02
EUR	iP	11 06 30
	e	06 46
Sept. 19		
FGU	eP	11 35 22
	eS	35 47

Date and Station		Phase (GCT)
		h m s
Sept. 19		
COL	eP	13 22 53
	ipP	23 10
EUR	eP	13 18 47
	ipP	19 01
	ePcP	21 59
FGU	eP	13 18 32
	ipP	18 46
TUT	e(P)	13 17 27
Sept. 19		
COL	iP	13 57 13
	i	57 15
EUR	iP'	14 03 00
SJP	iP'	14 04 55
Sept. 19		
EUR	e(P)	14 33 35
Sept. 19		
EUR	iP	16 00 05
Sept. 19		
EUR	e(P)	16 31 08
	e	31 57
Sept. 19		
BCN	eP	18 36 58
COL	iP	18 37 23
	i	37 42
EUR	iP	18 37 03
	e	37 20
	e(pP)	39 15
FGU	eP	18 37 27
HHM	iP	18 37 30
TUC	eP	18 37 04
TUT	iP	18 37 04
Sept. 19		
BUT	eP	18 57 30
Sept. 19		
BCN	eP	20 09 20
EUR	eP	20 09 46
TUT	e(P)	20 08 32
Sept. 19		
COL	eP	20 16 48
EUR	i(P)	20 18 56
Sept. 19		
COL	iP	20 34 22
Sept. 19		
BCN	eP	20 55 34
COL	eP	20 54 29

Date and Station		Phase (GCT)
		h m s
EUR	e(P)	20 56 13
Sept. 19		
EUR	i(P)	20 57 57
	i	58 01
	i	58 05
Sept. 19		
BOZ	eP	21 45 15
EUR	eP	21 46 39
	iL	47 00
HHM	iP	21 45 54
	iS	46 41
Sept. 19		
BCN	iP'	21 53 33
BOZ	eP'	21 53 46
BUT	eP'	21 53 48
COL	eP'	21 54 29
	iP'	54 40
	i	54 44
	i	54 58
	i	55 04
EUR	iP'	21 53 39
FGU	eP'	21 53 36
HHM	iP'	21 53 52
SLC	eP'	21 53 38
SJP	iP	21 47 19
Sept. 19		
COL	eP	22 42 06
Sept. 20		
EUR	e(P)	04 22 22
	i	22 24
Sept. 20		
BCN	eP	05 05 01
EUR	iP	05 05 46
	e	06 27
	eL	07 31
	i	08 01
FGU	e(P)	05 06 33
	eL	09 08
SLC	e(P)	05 06 57
TUC	eP	05 05 21
	iL	06 39
	i	06 45
TUT	eP	05 05 21
Sept. 20		
EUR	eP	05 55 09
FGU	e(P)	05 58 28
	e	58 47

Date and Station		Phase (GCT)
		h m s
Sept. 20		
COL	iP	06 41 33
EUR	e(P)	06 41 06
	i	41 09
Sept. 20		
EUR	eP	08 16 51
Sept. 20		
BCN	eP	10 37 07
EUR	iP	10 37 54
	e	37 58
	i	38 28
	e	39 58
FGU	e(P)	10 38 13
	e	39 00
	e	41 35
TUT	e(P)	10 37 12
Sept. 20		
COL	iP	12 06 52
Sept. 20		
COL	iP	12 30 00
	i	30 32
	i	31 25
	i	33 45
Sept. 20		
COL	iP	14 44 59
Sept. 20		
BOZ	eP	14 56 42
Sept. 20		
EUR	iP	15 30 42
	i	31 14
Sept. 20		
EUR	eP	18 25 52
TUT	eP	18 24 39
Sept. 20		
EUR	eP	18 50 26
Sept. 20		
BCN	eP	19 17 00
	ePP	20 51
BOZ	eP	19 17 18
COL	iP	19 15 50
	iS	26 00
EUR	eP	19 16 57
	i	17 02
	e	20 00
FGU	eP	19 17 18
	i	17 23
RCD	eP	19 17 43
SJP	iP'	19 23 11

Date and Station		Phase (GCT)
		h m s
TUC	e(P)	19 17 16
	eL	45 56
HHM	iP	19 17 04
	e	18 10
	e	20 18
Sept. 20		
BHP	eP	19 26 00
Sept. 20		
EUR	iP	20 49 39
Sept. 20		
FGU	eP	20 53 07
Sept. 20		
FGU	eP	21 46 14
Sept. 21		
EUR	i(P)	00 55 13
Sept. 21		
FGU	e(P)	01 06 52
Sept. 21		
FGU	eP	02 07 19
Sept. 21		
COL	iP	03 09 22
Sept. 21		
COL	iP	03 10 14
Sept. 21		
COL	iP	03 21 07
	i	21 50
EUR	iP	03 17 14
FGU	eP	03 16 52
TUC	eP	03 16 02
Sept. 21		
HHM	iP	03 33 01
Sept. 21		
EUR	eP	04 49 55
HHM	iP	04 49 46
Sept. 21		
EUR	eP	04 51 44
	i	51 55
	i	53 00
Sept. 21		
COL	iP	05 34 56
Sept. 21		
EUR	iP	09 58 31
Sept. 21		
COL	eP	10 26 57
EUR	iP	10 30 52
Sept. 21		
EUR	e(P)	13 11 43

Date and Station		Phase (GCT)
Sept. 21		h m s
COL	iP	13 32 59
Sept. 21		
COL	eP	13 40 00
	i	40 11
Sept. 21		
FGU	e(P)	14 01 46
Sept. 21		
COL	eP	14 21 10
Sept. 21		
COL	eP	14 25 04
Sept. 21		
COL	eP	15 21 27
Sept. 21		
EUR	eP	17 01 35
Sept. 21		
COL	e(P)	17 21 22
	e	21 27
Sept. 21		
EUR	eP	18 09 48
	i	11 18
Sept. 21		
BOZ	eP	18 31 29
EUR	iP	18 31 15
	ipP	31 25
FGU	eP	18 31 04
HHM	iP	18 31 45
RCD	i(P)	18 31 05
TUT	eP	18 30 21
Sept. 21		
EUR	eP	19 22 00
UKI	e(P)	19 20 55
	e	21 12
Sept. 21		
EUR	eP	20 03 18
Sept. 21		
BCN	e(P)	21 45 20
	e	47 32
Sept. 21		
EUR	eP	22 24 42
Sept. 22		
COL	iP	00 51 51
Sept. 22		
UKI	eP	06 59 22
	e	59 33
Sept. 22		
COL	iP	07 21 35
	i	24 25
Sept. 22		
COL	eP	07 36 09

Date and Station		Phase (GCT)
		h m s
EUR	eP	07 38 43
HHM	iP	07 38 15
	i	38 24
Sept. 22		
COL	iP	09 23 24
EUR	iP	09 24 01
Sept. 22		
COL	iP	16 16 21
EUR	iP	16 15 59
Sept. 22		
HHM	e(P)	17 32 14
Sept. 22		
EUR	iP	18 37 54
Sept. 22		
FGU	e(P)	20 30 03
Sept. 22		
EUR	eP	22 02 35
Sept. 22		
FGU	eP	23 07 55
Sept. 23		
EUR	eP	02 50 15
Sept. 23		
BCN	eP	03 08 43
BUT	eP	03 09 41
COL	iP	03 09 56
	i	10 03
EUR	iP	03 09 03
	i	09 26
	i	09 44
FGU	eP	03 09 45
HON	iP	03 02 23
HHM	iP	03 09 41
SLC	eP	03 09 32
TUC	eP	03 09 25
TUT	eP	03 09 26
Sept. 23		
EUR	eP	03 36 24
Sept. 23		
COL	iP	03 56 32
	e	56 44
	ePcP	57 48
	ePP	58 35
	eScP	04 00 47
EUR	iP	03 59 39
FGU	eP	03 59 52

Date and Station		Phase (GCT)
Sept. 23		h m s
BCN	eP	06 48 40
EUR	eP	06 49 19
	i	49 48
TUT	eP	06 49 16
Sept. 23		
COL	eP	07 03 33
Sept. 23		
SJP	e(P')	07 11 16
Sept. 23		
EUR	eP	08 07 59
	i	08 11
	i	09 29
Sept. 23		
COL	eP	08 29 45
	i	30 15
EUR	eP	08 29 12
	ipP	29 23
	i	29 28
FGU	e(P)	08 29 35
TUC	eP	08 29 09
TUT	eP	08 29 09
	e	29 25
Sept. 23		
BOZ	eP	09 38 57
BUT	eP	09 38 33
EUR	eP	09 39 53
	e	40 19
	eL	42 07
FGU	eP	09 39 51
	eL	41 58
HHM	iP	09 38 18
	iS	38 33
SLC	e(P)	09 40 51
Sept. 23		
COL	e(P)	10 01 21
EUR	iP	10 04 38
Sept. 23		
BUT	eP	10 14 20
Sept. 23		
EUR	eP	11 21 23
Sept. 23		
COL	iP	11 52 06
Sept. 23		
EUR	eP	12 46 28
FGU	e(P)	12 46 09

Date and Station		Phase (GCT) h m s
Sept. 23		
CSC	eP	13 14 29
Sept. 23		
EUR	eP	13 14 55
FGU	iP	13 14 13
	eS	14 49
Sept. 23		
FGU	eP	13 34 42
Sept. 23		
EUR	iP	15 17 20
Sept. 23		
EUR	eP	17 18 53
Sept. 23		
EUR	eP	19 10 53
	e	11 00
HHM	iP	19 11 03
	i	11 19
SLC	eP	19 10 09
Sept. 23		
COL	iP	21 23 55
EUR	iP	21 27 32
Sept. 23		
FGU	e(P)	21 50 51
Sept. 23		
THU	e(P)	22 05 45
Sept. 23		
FGU	e(P)	23 57 08
Sept. 24		
EUR	eP	02 29 10
Sept. 24		
EUR	eP	04 53 18
Sept. 24		
COL	iP'	17 12 34
	i	12 43
	i	13 21
	e	29 38
EUR	iP'	17 11 35
FGU	e(P')	17 10 40
HHM	iP'	17 11 45
	i	11 55
SJP	iP	17 05 02
Sept. 24		
EUR	eP	17 21 36
Sept. 24		
BCN	eP	17 29 26
FGU	eP	17 29 25
	eS	30 33
Sept. 24		
EUR	e(P)	18 16 56

Date and Station		Phase (GCT) h m s
Sept. 24		
BHP	eP	19 09 13
BCN	eP	19 09 36
BOZ	eP	19 10 35
BUT	eP	19 10 42
	ePcP	13 44
COL	iP	19 14 16
	i	14 38
	i	14 48
	iPcP	15 11
	iPP	16 22
CSC	eP	19 09 31
	eS	13 17
EUR	iP	19 10 05
	epP	10 19
	esP	10 42
	ePP	10 54
	e(PcP)	13 27
	e(L)	18 54
FGU	iP	19 09 51
	eS	14 08
	eL	17 38
RCD	iP	19 10 06
SLC	eP	19 09 58
SJP	eP	19 10 50
	i	11 10
	e	12 46
	eL	16 07
TUC	iP	19 08 42
TUT	iP	19 08 43
WAS	e(P)	19 10 16
	e	11 00
Sept. 24		
EUR	eP	20 44 44
Sept. 24		
BCN	iP	21 53 08
BOZ	eP	21 52 51
BUT	eP	21 52 45
COL	iP	21 50 05
	eS	57 27
EUR	iP	21 52 54
	i	53 23
	e	53 35
FGU	eP	21 52 41
RCD	eP	21 53 19
SLC	eP	21 53 12
TUC	eP	21 53 33
TUT	eP	21 53 33

Date and Station		Phase (GCT) h m s
Sept. 24		
COL	iP	22 12 31
EUR	eP	22 13 34
Sept. 24		
FGU	eP	23 01 35
	eS	02 15
Sept. 25		
BOZ	eP	00 36 09
Sept. 25		
EUR	eP	00 48 10
FGU	e(P)	00 47 26
Sept. 25		
EUR	eP	01 33 20
FGU	e(P)	01 32 35
SJP	e(P)	01 29 13
Sept. 25		
COL	eP	01 56 07
EUR	eP	01 58 45
FGU	e(P)	01 58 30
Sept. 25		
COL	e(P)	01 37 42
EUR	i(P)	01 41 44
Sept. 25		
BCN	eP	02 33 50
BUT	eP	02 32 50
	epP	33 13
COL	iP	02 28 29
	iS	29 24
CSC	e(P)	02 36 15
	epP	36 38
	eL	48 34
EUR	iP	02 33 21
	ipP	33 45
	e(sP)	33 53
	ePP	34 24
	ePcP	36 14
	e	36 46
	iScP	39 47
FGU	iP	02 33 07
	ipP	33 31
	eScP	39 23
HHM	iP	02 31 30
	ipP	31 53
	isP	32 06
	iScP	39 29
RCD	eP	02 33 43
SLC	eP	02 33 29
SJP	eP	02 38 56
TUC	iP	02 34 33
	ipP	34 57

Date and Station		Phase (GCT) h m s
TUT	iP	02 34 33
	ipP	34 58
	eScP	40 17
WAS	eP	02 36 16
	e	53 04
Sept. 25		
EUR	eP	04 27 36
Sept. 25		
COL	iP	05 11 04
EUR	eP	05 07 09
FGU	e(P)	05 06 21
TUC	e(P)	05 05 57
TUT	eP	05 05 57
Sept. 25		
EUR	eP	05 32 38
HON	iP	05 26 01
	eL	26 37
Sept. 25		
BCN	eP	05 36 21
BOZ	eP	05 37 09
BUT	eP	05 37 01
	eS	43 12
COL	iP	05 37 15
	i	37 32
	i	38 09
	eS	43 56
EUR	iP	05 36 22
	ipP	36 31
	i	37 09
FGU	eP	05 36 35
HON	iP	05 29 44
	eL	30 09
HHM	iP	05 37 03
RCD	eP	05 37 46
SLC	eP	05 36 52
SJP	eP	05 41 22
TUC	eP	05 36 45
	i	36 46
TUT	eP	05 36 44
WAS	eP	05 40 00
	e	59 24
Sept. 25		
EUR	e(P)	06 06 16

Date and Station		Phase (GCT)
		h m s
Sept. 25		
HON	eP	06 30 13
	eL	30 40
Sept. 25		
FGU	e(P)	06 33 00
	e	37 05
Sept. 25		
COL	eP	06 37 43
EUR	iP	06 36 52
Sept. 25		
COL	iP	07 41 56
Sept. 25		
COL	iP	08 06 46
Sept. 25		
EUR	iP	09 36 38
Sept. 25		
EUR	eP	11 05 31
FGU	eP	11 08 25
Sept. 25		
COL	iP	11 41 57
Sept. 25		
COL	e(P)	14 58 51
Sept. 25		
COL	iP	16 05 11
EUR	iP	16 04 50
Sept. 25		
COL	eP	16 37 02
EUR	eP	16 40 33
	i	40 47
Sept. 25		
COL	eP	18 21 26
	i	21 35
EUR	eP	18 22 08
	i	22 18
Sept. 25		
COL	eP	18 36 37
Sept. 25		
BCN	eP	18 49 14
COL	eP	18 51 07
	e	51 36
FGU	eP	18 51 54
	e	53 52
TUC	e(P)	18 49 21
Sept. 25		
COL	iP	20 23 36
	iS	24 18
EUR	iP	20 28 47
	i	29 29
FGU	eP	20 29 01
HHM	eP	20 27 51
	e	28 30
	iScP	34 50
Sept. 25		
COL	eP	21 19 59
EUR	iP	21 22 37
	i	22 43
	i	22 50
FGU	eP	21 22 23
HHM	e(P)	21 21 38
Sept. 25		
FGU	eP	23 05 50
	eS	06 24
Sept. 25		
COL	e(P)	23 37 00
EUR	eP	23 39 53
Sept. 25		
FGU	eP	23 47 02
	eS	47 36
Sept. 26		
COL	i(P)	00 13 19
Sept. 26		
EUR	e(P)	01 41 40
Sept. 26		
EUR	eP	02 15 52
	i	15 54
	i	16 17
Sept. 26		
COL	i(P)	02 56 19
EUR	eP	02 59 15
Sept. 26		
EUR	e(P)	04 04 00
Sept. 26		
COL	eP	04 07 55
EUR	eP	04 11 01
HHM	e(P)	04 10 36
Sept. 26		
BCN	eP	07 25 08
Sept. 26		
COL	eP	07 25 51
	e	26 10
	e	26 30
EUR	e(P)	07 25 19
TUT	e(P)	07 25 17
Sept. 26		
COL	e(P)	10 03 21
Sept. 26		
EUR	eP	12 58 15
Sept. 26		
COL	e(P)	15 14 25
	e(L)	15 04
EUR	iP	15 12 46
Sept. 26		
EUR	eP	16 01 49
	i	02 01
HHM	e(P)	16 01 55
Sept. 26		
HHM	eP	18 16 10
Sept. 26		
COL	e(P)	19 09 50
	i	10 45
EUR	i(P)	19 06 05
FGU	e(P)	19 07 57
Sept. 26		
COL	eP	21 11 20
Sept. 26		
FGU	e(P)	21 20 00
	iS	20 37
Sept. 26		
BCN	eP	21 46 48
EUR	eP	21 47 03
	e	47 08
	e	47 09
FGU	eP	21 47 44
Sept. 26		
EUR	iP	22 43 17
HHM	e(P)	22 43 37
	e	43 44
Sept. 27		
FGU	e(P)	00 19 44
Sept. 27		
COL	iP	00 58 35
	epP	59 48
EUR	iP	00 58 07
FGU	eP	00 58 34
HHM	e(P)	00 58 38
TUC	iP	00 58 08
Sept. 27		
BCN	eP	01 59 51
COL	iP	02 04 49
	e	05 15
	e	05 28
	ePcP	05 47
EUR	iP	02 00 27
	i	00 39
	i	00 55
	e	01 08
FGU	eP	02 00 24
	eScP	07 17
HHM	e(P)	02 01 36
SLC	eP	02 00 27
TUC	e(P)	01 58 49
TUT	eP	01 58 50
Sept. 27		
EUR	eP	03 14 05
Sept. 27		
COL	eP	04 35 17
	i	35 32
Sept. 27		
BOZ	eP	06 46 57
	epP	48 57
BUT	eP	06 45 50
	epP	47 53
COL	iP	06 45 44
	ipP	47 44
	i	49 48
	eS	55 29
	e	58 12
	esS	59 04
EUR	iP	06 45 26
	i	45 42
	e	46 12
	ipP	47 24
	i(S)	54 55
	eP'P'	07 10 35
	i	11 52
	eSKPP'	14 34
FGU	iP	06 45 51
	epP	47 48
	eS	55 29
	eP'P'	07 10 19
	eSKPP'	14 23
GUA	iP	06 41 52
	iScP	46 16
HON	iP	06 41 23
HHM	iP	06 45 53
	i	46 10
	ipP	47 53
	e	54 24
	iPKKP	07 03 42
	eP'P'	11 46
KIP	iP	06 41 23
SLC	eP	06 45 44
	eSKPP'	07 14 23

B-4297-4

Date and Station		Phase (GCT)
		h m s
SJP	eP'	06 54 33
TUC	iP	06 45 28
	ipP	47 26
	eSKPP'	07 14 39
UKI	eP	06 45 01
Sept. 27		
COL	eP	08 34 33
	e	34 51
Sept. 27		
EUR	eP	09 37 29
Sept. 27		
EUR	e(P)	10 29 15
FGU	eP	10 29 07
Sept. 27		
EUR	eP'	11 05 49
Sept. 27		
BOZ	eP	11 28 06
BUT	eP	11 27 55
COL	eP	11 24 37
	i	24 40
	i(S)	27 34
	e	29 56
CSC	eP	11 31 13
EUR	eP	11 28 09
	i	28 37
	e	28 52
	e	29 56
FGU	eP	11 28 32
	eScS	38 55
HHM	eP	11 27 36
	i	28 10
RCD	eP	11 28 51
SLC	eP	11 28 23
SJP	eP	11 33 13
SIT	eP	11 25 23
TUC	e(P)	11 29 13
Sept. 27		
TUC	e(P)	11 33 02
	iS	34 06
	iL	34 09
Sept. 27		
BHP	iP	12 19 49

Date and Station		Phase (GCT)
		h m s
BOZ	eP'	12 26 36
BUT	eP'	12 26 35
COL	eP'	12 27 16
	ipP'	27 29
	isP'	27 43
	i	27 59
	e	31 15
	e	31 46
	eSKKS	37 14
EUR	iP'	12 26 29
	i	26 34
	e	26 59
FGU	eP'	12 26 25
HHM	iP'	12 26 39
	ipP'	27 20
	iPP	30 00
RCD	iP'	12 26 24
SLC	eP'	12 26 27
SJP	iP	12 20 05
SIT	eP'	12 27 08
TUC	eP'	12 26 13
	i	26 14
Sept. 27		
EUR	eP	12 36 15
Sept. 27		
EUR	eP	15 06 56
Sept. 27		
EUR	iP	15 14 10
Sept. 27		
COL	iP	15 56 06
Sept. 27		
COL	iP	18 33 07
EUR	eP	18 32 51
Sept. 27		
SLC	eP	19 02 23
Sept. 27		
BOZ	eP	19 28 02
BUT	eP	19 27 40
COL	iP	19 24 38
	iL	29 53
CSC	eP	19 31 12
EUR	eP	19 28 08
	ipP	28 21
	e	29 52
	eL	34 06
FGU	eP	19 28 20
	epP	28 34

Date and Station		Phase (GCT)
		h m s
HHM	iP	19 27 36
	iPcP	30 11
RCD	e(P)	19 28 50
SLC	eP	19 28 23
SJP	iP	19 33 14
	i	33 26
SIT	eP	19 25 20
TUC	eP	19 29 11
	e(L)	48 08
UKI	eP	19 27 31
WAS	eP	19 31 01
Sept. 27		
BOZ	eP	19 34 18
BUT	eP	19 34 09
	e(S)	39 34
COL	iP	19 30 53
	iL	36 07
CSC	eP	19 37 27
EUR	iP	19 34 23
	ipP	34 37
FGU	e(P)	19 34 43
	e	34 48
	eScS	44 52
HON	eP	19 32 54
	e	33 29
HHM	iP	19 33 51
	i	35 48
KIP	eP	19 33 28
RCD	iP	19 35 03
SLC	eP	19 34 38
SJP	eP	19 39 28
SIT	eP	19 31 35
TUC	eP	19 35 27
	i	35 42
	i	36 03
UKI	e(P)	19 33 47
WAS	i(P)	19 36 18
Sept. 27		
EUR	eP	20 10 18
Sept. 27		
COL	iP	20 24 26
	ipP	24 36
Sept. 27		
FGU	eP	20 47 54

Date and Station		Phase (GCT)
		h m s
Sept. 27		
COL	iP	21 17 39
EUR	iP	21 20 12
	ipP	20 52
	ePP	23 52
	e	35 26
HHM	iP	21 19 52
	ipP	20 32
	e	27 07
Sept. 27		
EUR	iP	21 27 38
Sept. 27		
COL	iP	21 31 53
Sept. 28		
FGU	eP	00 44 19
Sept. 28		
EUR	iP	01 14 25
Sept. 28		
BUT	eP'	01 43 00
COL	iP	01 38 00
	eP'	41 55
	ePKKP	53 58
	i	54 39
CSC	eP'	01 43 40
EUR	iP'	01 43 06
	ipP'	43 23
	iSKP	46 22
	iPKS	46 47
	eSKKP	55 15
FGU	eP'	01 43 10
	iSKP	46 33
	i	47 01
HHM	iP'	01 42 55
SLC	eP'	01 43 09
	eSKP	46 29
SJP	eP'	01 43 56
TUC	eP'	01 43 11
	e	43 18
UKI	eP'	01 42 58
WAS	iP'	01 43 31
	i	43 48
	ePP	47 22
	e	55 16
Sept. 28		
EUR	eP	02 16 41
Sept. 28		
BOZ	eP	03 36 46
COL	iP	03 34 02
	ipP	34 14
	isP	34 22

B-4297-4.

Date and Station		Phase (GCT)
		h m s
EUR	eP	03 36 43
FGU	eP	03 37 01
HON	eP	03 33 20
	eL	41 50
HHM	e(P)	03 36 27
RCD	e(P)	03 37 11
SLC	eP	03 37 58
SJP	eP'	03 44 26
TUC	eP	03 37 25
Sept. 28		
COL	iP	03 35 52
	ePcP	40 29
EUR	iP	03 39 25
	eS	45 13
FGU	e(P)	03 39 48
HHM	iP	03 38 55
Sept. 28		
BUT	eP	04 31 06
COL	eP	04 28 33
EUR	eP	04 31 13
FGU	eP	04 31 32
HHM	e(P)	04 30 54
Sept. 28		
COL	iP	05 12 01
	ipP	12 49
Sept. 28		
EUR	eP	05 30 12
Sept. 28		
COL	iP	06 35 49
	i	36 04
EUR	eP	06 34 51
Sept. 28		
EUR	eP	07 30 34
FGU	e(P)	07 30 10
Sept. 28		
BCN	eP	08 29 07
EUR	iP	08 29 32
	i	29 45
	iS	30 34
FGU	e(P)	08 30 38
SLC	eP	08 30 42
TUC	eP	08 30 07

Date and Station		Phase (GCT)
		h m s
Sept. 28		
EUR	eP	10 12 04
UKI	e(P)	10 08 25
Sept. 28		
COL	iP	11 19 58
EUR	eP	11 24 47
HHM	eP	11 24 05
Sept. 28		
EUR	eP	12 22 50
Sept. 28		
EUR	iP	15 30 42
Sept. 28		
COL	iP	17 49 24
	e	50 35
EUR	iP	17 50 26
HHM	e(P)	17 50 33
Sept. 28		
FGU	eP	18 03 58
	e	04 22
Sept. 28		
BOZ	eP	18 50 23
	e(S)	50 38
BUT	iP	18 50 35
	e(S)	50 56
EUR	eP	18 51 53
	i(L)	53 36
FGU	eP	18 51 12
	i	51 20
	iL	52 12
HHM	iP	18 51 11
	i	51 20
	iL	52 12
RCD	e(P)	18 51 37
SLC	eP	18 51 14
Sept. 28		
BCN	eP	20 56 21
FGU	e(P)	20 57 59
Sept. 28		
FGU	e(P)	21 03 54
Sept. 28		
EUR	iP	21 45 35
TUT	eP	21 44 49
Sept. 28		
COL	iP	22 49 03
	ipP	49 19
EUR	e(P')	22 55 02
	ePKKP	23 05 46

Date and Station		Phase (GCT)
		h m s
FGU	ePKKP	23 06 03
Sept. 28		
FGU	eP	23 46 30
Sept. 28		
FGU	e(P)	23 53 37
Sept. 29		
BOZ	eP	00 06 27
Sept. 29		
COL	e(P)	01 56 11
EUR	eP	01 58 51
Sept. 29		
GUA	eP	05 23 26
Sept. 29		
FGU	eP	05 26 28
Sept. 29		
COL	eP	05 46 13
	e	48 25
EUR	eP	05 47 49
Sept. 29		
EUR	eP	06 20 22
FGU	e(P)	06 20 00
HHM	e(P)	06 21 01
SJP	eP	06 16 46
TUT	eP	06 19 18
Sept. 29		
EUR	eP	06 22 34
Sept. 29		
EUR	iP	08 31 08
FGU	eP	08 30 54
	e	32 51
SJP	eP	08 26 59
TUC	eP	08 30 20
TUT	eP	08 30 21
Sept. 29		
COL	iP	08 28 56
	i	29 13
	eScP	36 23
EUR	iP	08 32 28
	iPcP	34 17
	eScP	37 42
TUC	iP	08 33 29
TUT	iP	08 33 30
Sept. 29		
COL	iP	08 58 14
	ePP	09 01 31

Date and Station		Phase (GCT)
		h m s
EUR	iP'	09 04 10
	e	06 04
TUC	eP'	09 04 27
TUT	eP'	09 04 27
Sept. 29		
EUR	e(P)	09 14 15
Sept. 29		
EUR	iP	10 38 35
Sept. 29		
EUR	eP	11 35 50
TUC	eP	11 35 49
Sept. 29		
COL	iP	12 04 13
EUR	iP	12 07 32
HHM	iP	12 06 03
Sept. 29		
EUR	e(P)	12 58 30
Sept. 29		
BCN	iP	17 02 02
BUT	eP	17 01 30
COL	iP	16 58 28
	ipP	58 40
EUR	eP	17 01 44
FGU	e(P)	17 02 01
HHM	iP	17 01 16
	ipP	01 28
RCD	eP	17 02 06
TUT	eP	17 02 30
Sept. 29		
EUR	eP	17 43 46
Sept. 29		
COL	iP	18 23 24
	i	23 41
	i	24 26
Sept. 29		
BCN	eP	18 47 38
Sept. 29		
BCN	eP'	19 24 46
BOZ	eP'	19 24 43
BUT	eP'	19 25 00
COL	eP	19 18 58
	ipP	19 21
	i	21 16

Date and Station		Phase (GCT)
		h m s
CSC	eP	19 25 47
EUR	e(P)	19 21 03
	eP'	24 41
	i	25 03
	iPP	25 49
	e	36 59
HON	iP	19 18 35
HHM	e(P)	19 20 59
	eP'	24 40
KIP	iP	19 18 35
RCD	e(P')	19 25 12
SJP	eP'	19 26 22
	e	26 40
	i	26 59
	ePP	30 49
TUT	e(P')	19 24 53
WAS	iP'	19 25 49
	iPP	28 52
	i	29 28
Sept. 29		
EUR	iP	21 25 20
Sept. 29		
COL	iP	22 48 16
HHM	eP	22 47 36
	e	48 04
Sept. 29		
BHP	eP	22 40 00
BCN	eP	22 46 35
BOZ	e(P)	22 47 06
BUT	eP	22 47 17
COL	eP	22 50 10
CSC	eP	22 44 31
EUR	eP	22 47 00
FGU	e(P)	22 46 40
RCD	eP	22 46 37
SJP	iP	22 42 48
	i	43 06
	e(S)	46 51
TUC	e(P)	22 46 02
	e(L)	23 01 17
TUT	eP	22 45 57
Sept. 29		
TUC	iP	23 00 11
Sept. 30		
COL	iP	00 28 51
	ipP	29 01
	i	29 06
	e	32 21

Date and Station		Phase (GCT)
		h m s
HHM	e(P)	00 31 40
	i	31 58
Sept. 30		
EUR	iP	01 43 15
Sept. 30		
COL	eP	01 47 22
EUR	eP	01 49 52
HHM	iP	01 49 22
Sept. 30		
BCN	eP	03 37 33
	e	38 18
EUR	eP	03 37 18
	i	37 22
	iS	38 04
Sept. 30		
EUR	e(P)	03 39 41
	iS	40 24
FGU	eP	03 39 36
	eS	40 16
Sept. 30		
EUR	eP	05 27 17
	i	27 21
	iS	28 04
FGU	eP	05 27 16
	eS	27 55
Sept. 30		
FGU	e(P)	08 18 21
Sept. 30		
BCN	eP	08 45 11
Sept. 30		
COL	e(P)	08 48 07
	e	48 52
Sept. 30		
COL	iP	11 06 52
	e	07 13
EUR	eP	11 06 19
Sept. 30		
BCN	eP	12 25 41
	e	26 08
EUR	eP	12 25 47
	i	25 53
	iS	26 30
FGU	e(P)	12 26 10
	e	26 20
Sept. 30		
BCN	eP	13 02 09
EUR	eP	13 02 22
	iS	03 03
FGU	e(P)	13 02 43

Date and Station		Phase (GCT)
Sept. 30		h m s
COL	eP	13 21 32
EUR	eP	13 24 40
FGU	e(P)	13 24 56
	e	25 49
RCD	eP	13 25 16
Sept. 30		
BCN	eP	14 47 59
Sept. 30		
SJP	iP	16 15 38
Sept. 30		
BCN	eP	18 56 18
COL	eP	19 00 33
	iPcP	01 09
EUR	iP	18 56 43.
FGU	eP	18 56 23
TUT	e(P)	18 55 32
Sept. 30		
COL	eP	19 37 22
Sept. 30		
EUR	eP	21 52 36
Sept. 30		
COL	iP	22 19 30
	ipP	19 41
EUR	eP	22 22 46
Sept. 30		
TUC	iP	22 59 11
Sept. 30		
SLC	eP	23 57 21

Date and Station		Phase (GCT)
		h m s

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
September	
COL	
5	01.3
	04.7
11	05.8
	08.3
13	10.7
	19.3
14	18.8
16	01.2
17	08.8
18	21.7
	22.0
21	12.6
22	18.5
26	22.2
EUR	
3	05.5
	14.4
4	18.6
	22.1
5	01.9
	03.9
6	13.0
	17.0
	19.3
	24.7
8	08.4
	12.5
	22.9
11	00.4
14	13.5
17	10.4
	12.6
18	15.0
	15.5
24	17.5
26	19.3
FGU	
2	17.5
3	10.7
4	01.4
	17.7
	22.1
5	01.9
	03.3
	05.0
	23.5
6	05.4
8	21.4
13	05.8
14	05.7
	22.8
	23.9
15	04.7
16	05.5
18	18.1
19	00.2
	21.6
20	04.3
	07.1
	23.2
21	04.9
	23.7

Date and Station	Phase (GCT)
	h m s
FGU (Con't.)	
22	01.3
	10.7
23	00.6
	19.2
24	00.8
	02.8
	09.4
26	02.1
	23.3
27	19.0
29	09.1
	23.8
30	03.6
	12.4
	13.1
	22.9
GCA	
1	17.8
4	01.4
	22.1
5	01.9
	02.1
	03.9 (?)
	07.0
	13.1
7	17.1
	21.2
8	22.9
9	00.7
14	05.8
30	03.6
	12.4
	13.0
	22.9
SJP	
2	17.5
5	02.3
11	22.4
13	10.0
14	14.3
17	04.8
22	14.2
24	04.4
	06.8
26	15.9
29	06.7
TUC	
4	23.7
5	08.7
18	11.1
	11.3 (?)
	11.5
19	20.1
20	10.6

Date and Station	Phase (GCT)
	h m s

Date and Station	Phase (GCT)
	h m s