USC&S
,40

SEISMOLOGICAL BULLETIN

August, 1962

MSI - 260

COAST & GEODETIC SURVEY
AUG 7 1964
LIBRARY BRANCH

CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 9
Local and minor earthquakes 29

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

SEISMOLOGICAL BULLETIN

1962

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

Albuquerque, New Mexico (ALQ) WWNSS
**Balboa Heights, C. Z. (BHP) WWNSS
The Panama Canal Co.
*Boulder City, Nev. (BCN)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
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) WWNSS
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.
WWNSS indicates the observatories are part of the World-Wide Network of Standard Seismographs.

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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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

All 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. Requests for information on seismogram copies of the World-Wide Network observatories should be addressed to:

Director
U. S. Coast and Geodetic Survey
Washington, D. C. 20230
ATTN: Seismology Data Center

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
1	03 49 11.9	27.0 S.	176.4 W.	Kermadec Islands region. h about 33 km.
1	04 28 26.7	5.5 N.	125.3 E.	Near coast of Mindanao, P. I. h about 33 km.
1	04 36 57.6	3.2 S	143.7 E.	Near north coast of New Guinea. Felt. h about 33 km. Mag. 6½-6¾.
1	05 21 25.5	27.1 S.	176.3 W.	Kermadec Islands region. h about 34 km.
1	10 32 42.7	3.8 S.	153.1 E.	New Ireland region. Felt at Rabaul. h about 51 km.
1	12 47 46.6	27.1 S.	176.3 W.	Kermadec Islands region. h about 33 km.
1	15 47 45.5	39.1 N.	98.6 E.	Tsinghai Province, China. h about 25 km.
1	16 38 57.3	36.2 N.	41.5 E.	Iraq. h about 37 km.
2	04 41 46.7	19.3 N.	81.0 W.	Cayman Islands region. h about 47 km. Mag. 4¼-4½ (Pal).
2	13 26 42.4	4.8 S.	152.1 E.	New Britain region. h about 79 km.
2	15 32 20.9	33.4 N.	73.5 E.	West Pakistan. Felt at Rawalpindi. h about 33 km.
2	18 51 21.6	4.5 S.	125.0 E.	Banda Sea. h about 563 km.
3	04 06 08.4	5.2 N.	76.4 W.	Western Colombia. Felt at Manizales and Pereira. h about 79 km.
3	07 37 52.6	44.8 S.	34.6 E.	Prince Edward Islands region. h about 33 km.
3	08 00 09.8	51.2 N.	176.4 E.	Rat Islands, Aleutian Islands. h about 40 km.
3	08 56 17.1	23.3 S.	68.1 W.	Northern Chile-Argentina border. Felt. h about 107 km. Mag. 7-7¼.
3	10 04 44.6	10.1 S.	161.2 E.	Solomon Islands. Felt at Honiara. h about 40 km.
3	10 16 26.3	23.2 S.	171.1 E.	Loyalty Islands region. h about 33 km.
3	11 04 03.6	40.9 N.	73.3 E.	Kirghiz, S. S. R. h about 25 km.
3	12 04 59.8	55.8 S.	27.3 W.	Sandwich Islands region. h about 33 km.
3	18 02 45.8	36.6 N.	71.1 E.	Hindu Kush. h about 209 km.
3	22 46 19.2	12.8 N.	92.8 E.	Off coast of Guatemala. h about 33 km.
4	02 49 44.7	14.1 N.	93.0 W.	Off coast of Guatemala. h about 30 km.
4	05 39 20.7	17.4 S.	174.7 W.	Tonga Islands region. h about 135 km.
5	09 08 45.8	74.2 N.	52.5 E.	Novaya Zemlya. h about 0 km. Mag. 5-5¼ (Pal).
5	15 08 34.1	13.7 S.	166.6 E.	New Hebrides Islands. h about 60 km.
6	01 35 30.5	32.0 N.	40.8 W.	North Atlantic Ocean. h about 48 km. Mag. 6¼.
6	08 41 16.2	58.2 S.	25.3W.	Sandwich Islands region. h about 42 km.
6	09 23 30.9	39.7 N.	140.6 E.	Northern Honshu, Japan. h about 60 km.
6	15 27 20.0	15.3 S.	167.5 E.	New Hebrides Islands. Felt on Santo. h about 120 km.
6	19 23 07.6	6.1 S.	151.2 E.	New Britain region. h about 39 km.
6	20 51 56.8	26.9 S.	177.1 W.	Kermadec Islands region. h about 50 km. Mag. 6 (Brk) 5½ (Pal).
7	00 25 37.8	5.3 S.	152.4 E.	New Britain region. h about 63 km.
7	03 01 52.4	12.2 N.	92.5 E.	Andaman Islands region. h about 33 km.
7	05 15 45.9	36.1 N.	30.4 E.	Near south coast of Turkey. h about 33 km.
7	06 19 27.9	21.1 S.	179.1 W.	Fiji Islands region. h about 600 km.

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
7	08 44 43.7	4.8 N.	127.8 E.	Talaud Islands region. h about 33 km.
7	19 22 46.2	9.6 N.	82.5 W.	Near north coast of Panama. h about 33 km.
7	22 32 35.1	31.5 N.	116.1 W.	Baja California. h about 33 km.
8	09 19 22.4	16.4 S.	179.5 W.	Fiji Islands. h about 493 km.
8	10 54 56.3	52.1 N.	170.5 W.	Fox Islands, Aleutian Islands. h about 40 km.
8	12 00 15.1	17.8 S.	168.0 E.	New Hebrides Islands. Felt at Port Vila. h about 30 km.
8	12 12 22.5	17.9 S.	168.0 E.	New Hebrides Islands. Felt at Port Vila. h about 33 km.
8	13 35 11.2	18.0 S.	168.1 E.	New Hebrides Islands. Felt at Port Vila. h about 33 km.
8	17 16 31.5	18.8 N.	144.8 E.	Mariana Islands. h about 385 km.
8	17 55 37.9	37.0 N.	141.5 E.	Near east coast of Honshu, Japan. h about 53 km.
9	00 21 10.7	22.4 S.	70.0 W.	Northern Chile. h about 160 km.
9	04 21 55.4	6.7 N.	73.1 W.	Colombia. Felt. h about 180 km.
9	06 19 51.4	24.1 S.	66.5 W.	Salta Province, Argentina. h about 128 km.
9	10 44 00.5	30.1 N.	129.0 E.	Ryukyu Islands. h about 198 km.
9	17 24 48.5	44.5 S.	73.4 W.	Near coast of southern Chile. h about 33 km.
9	22 31 45.5	52.1 N.	158.9 E.	Near east coast of Kamchatka. h about 33 km.
10	21 03 59.2	49.4 N.	27.9 W.	North Atlantic Ocean. h about 33 km. Mag. $4\frac{1}{2}$ (Pal).
11	01 47 39.6	20.0 S.	178.8 W.	Fiji Islands. h about 638 km.
11	06 47 41.7	15.7 S.	172.9 W.	Tonga Islands region. h about 157 km.
11	08 15 43.7	25.2 N.	123.3 E.	Ryukyu Islands region. h about 140 km. Mag. 6.
11	18 12 53.7	6.6 S.	130.3 E.	Banda Sea. h about 173 km.
12	03 36 46.5	11.4 S.	166.5 E.	Santa Cruz Islands. h about 24 km.
12	04 49 28.4	37.5 N.	30.7 E.	Turkey. h about 33 km.
12	05 13 33.1	12.2 N.	87.8 W.	Off west coast of Nicaragua. h about 33 km.
12	10 38 01.8	58.2 S.	25.1 W.	Sandwich Islands region. h about 33 km.
12	19 01 30.7	19.1 S.	169.1 E.	New Hebrides Islands. h about 70 km.
12	20 35 17.0	36.0 S.	72.4 W.	Central Chile. h about 43 km.
13	06 35 56.0	2.1 N.	83.5 W.	Off coast of Ecuador. h about 33 km. Mag. $6\frac{1}{2}$-$6\frac{3}{4}$.
13	10 09 18.4	14.5 N.	93.0 W.	Off coast of Chiapas, Mexico. h about 55 km.
13	14 44 33.3	1.9 N.	127.5 E.	Halmahera region. h about 33 km.
13	20 11 41.6	53.8 N.	108.6 E.	Lake Baikal region. h about 33 km.
14	01 10 50.5	49.9 S.	163.0 E.	About 500 km. north of Macquarie Islands. h about 43 km. Mag. $5\frac{1}{4}$-$5\frac{1}{2}$ (Pa
14	07 27 44.8	28.0 N.	55.6 E.	Iran. h about 43 km.
14	19 54 56.6	9.3 S.	110.3 E.	Off south coast of Java. h about 182 km.
15	02 45 33.9	31.4 N.	139.2 E.	South of Honshu, Japan. h about 155 km.
15	03 11 15.7	55.3 N.	167.0 E.	Komandorskie Islands. h about 33 km.

USCOMM-DC 6487-P68

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
15	08 19 37.8	54.6 N.	161.5 E.	Near east coast of Kamchatka. h about 52 km.
15	08 29 46.7	4.7 N.	122.6 E.	Celebes Sea. h about 620 km.
15	10 06 53.6	45.2 N.	132.6 E.	Manchuria, China. h about 37 km.
15	11 20 44.5	51.8 N.	177.0 W.	Andreanof Islands, Aleutian Islands. h about 53 km.
15	13 08 41.2	14.6 N.	56.5 E.	Socotra Island region. h about 28 km.
15	16 22 12.3	37.5 S.	73.6 W.	Near coast of central Chile. h about 33 km.
15	20 15 29.9	21.2 S.	179.3 W.	Fiji Islands region. h about 600 km.
16	08 45 10.4	19.4 N.	145.6 E.	Mariana Islands. h about 111 km.
17	00 32 26.9	15.8 S.	172.9 W.	Samoa Islands. h about 33 km.
17	03 07 46.7	7.9 N.	71.4 W.	Venezuela. h about 17 km.
17	03 23 33.6	31.5 S.	67.9 W.	San Juan Province, Argentina. Felt. h about 33 km.
17	03 56 21.7	12.4 S.	166.5 E.	Santa Cruz Islands. h about 93 km.
17	05 04 31.5	10.6 N.	121.6 E.	Panay region, P. I. One killed on Panay. h about 33 km. Mag. 5½-5½ (Pal)
17	07 26 33.4	4.7 S.	79.4 W.	Peru-Ecuador border. h about 96 km.
17	11 48 47.3	15.2 S.	178.6 W.	Fiji Islands region. h about 391 km.
17	16 19 47.3	19.3 S.	177.5 W.	Fiji Islands region. h about 528 km.
17	22 55 55.4	15.4 S.	172.7 W.	Samoa Islands region. h about 33 km.
18	02 06 40.2	19.9 S.	170.2 E.	Loyalty Islands. h about 78 km.
18	04 01 33.5	21.9 S.	179.3 W.	Fiji Islands region. h about 516 km.
18	04 29 03.7	37.0 N.	32.6 E.	Turkey. h about 113 km.
18	05 42 02.8	3.5 S.	150.5 E.	New Ireland region. h about 19 km.
18	06 59 33.2	0.8 N.	82.3 W.	Off coast of Ecuador. h about 33 km.
18	08 22 13.3	4.7 S.	150.2 E.	New Britain region. h about 82 km.
18	09 11 23.8	10.7 N.	121.6 E.	Panay region, P. I. h about 44 km.
18	16 43 54.3	62.3 N.	152.5 W.	South-central Alaska. Felt. h about 32 km. Mag. 6-6¼.
18	17 46 14.9	62.3 N.	152.5 W.	South-central Alaska. Felt. h about 32 km. Mag. 6¼-6½.
18	20 44 27.2	22.7 S.	173.1 E.	Loyalty Islands region. h about 82 km.
18	22 49 47.5	7.3 S.	156.1 E.	Solomon Islands. h about 82 km.
18	23 20 17.6	52.5 N.	172.3 W.	Andreanof Islands, Aleutian Islands. h about 33 km.
19	00 23 03.9	19.9 S.	66.9 W.	Bolivia. h about 240 km.
19	02 58 45.6	19.4 N.	155.6 W.	Hawaii Island, Hawaii. h about 33 km.
19	04 14 10.9	16.1 S.	173.4 W.	Tonga Islands region. h about 33 km.
19	06 28 39.1	50.6 N.	129.5 W.	Vancouver Island region. h about 33 km.
19	06 42 29.1	34.8 N.	134.8 E.	Honshu, Japan. h about 49 km.
19	10 39 44.5	6.8 S.	149.5 E.	New Britain region. h about 33 km.
19	18 26 38.6	44.6 N.	81.7 E.	Sinkiang Province, China. h about 33 km. Mag. 5¾-6 (Pal).
19	21 19 54.6	4.5 N.	123.2 E.	Celebes Sea. h about 552 km.

USCOMM-DC 54657-P59

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
19	23 12 53.0	26.7 S.	70.3 W.	Near coast of northern Chile. h about 65 km. Mag. 4¾-5 (Pal).
20	09 02 14.1	74.3 N.	51.5 E.	Novaya Zemlya. h about 0 km. Mag. 4¾ (Pal).
20	10 43 23.2	31.1 N.	114.1 W.	Gulf of California. h about 14 km. Mag. 5-5¼.
20	11 22 39.8	20.9 S.	178.8 W.	Fiji Islands. h about 605 km.
20	12 58 21.4	12.4 S.	112.0 E.	Off south coast of Java. h about 65 km.
20	13 15 14.6	15.1 N.	92.2 W.	Guatemala-Mexico border. h about 130 km.
20	15 15 15.6	1.7 S.	133.8 E.	Western New Guinea. h about 33 km.
20	23 18 39.8	14.7 S.	166.6 E.	New Hebrides. Felt on Santo. h about 52 km.
21	02 12 42.0	41.3 N.	127.1 W.	Off coast of northern Califonria. h about 33 km.
21	02 36 43.6	39.3 N.	111.0 W.	Central Utah. h about 33 km.
21	02 57 38.6	42.3 N.	126.6 W.	Off coast of Oregon. h about 40 km.
21	04 28 26.1	23.9 N.	121.7 E.	Near east coast of Formosa. h about 25 km.
21	16 10 08.7	28.2 S.	176.7 W.	Kermadec Islands region. h about 57 km.
21	17 04 35.2	15.5 S.	172.6 W.	Samoa Islands region. h about 33 km.
21	17 30 14.0	62.4 N.	152.6 W.	Central Alaska. h about 42 km.
21	18 09 06.8	41.5 N.	15.4 E.	Italy. h about 36 km.
21	18 19 33.3	41.4 N.	15.5 E.	Italy. 20 dead, 200 injured. Major property damage at Naples. h about 34 km. Mag. 6.
21	18 44 56.4	41.2 N.	15.2 E.	Italy. h about 31 km.
21	21 06 00.1	28.7 S.	176.8 W.	Kermadec Islands region. h about 55 km.
21	21 09 50.3	29.6 S.	111.9 W.	Easter Island region. h about 33 km. Mag. 6¼-6½.
21	22 04 42.0	28.8 S.	176.5 W.	Kermadec Islands region. h about 55 km.
22	04 32 29.1	26.1 N.	142.5 E.	Volcano Islands region. h about 29 km.
22	05 29 26.6	28.6 S.	176.7 W.	Kermadec Islands region. h about 55 km.
22	09 00 04.2	74.0 N.	53.3 E.	Novaya Zemlya. h about 0 km.
22	09 12 49.7	20.3 S.	177.8 W.	Fiji Islands. h about 503 km.
22	11 11 56.3	49.7 S.	117.5 E.	About 2000 kilometers southwest of Australia. h about 33 km.
22	12 05 54.9	28.6 S.	176.7 W.	Kermadec Islands region. h about 56 km.
22	14 31 44.2	29.5 S.	112.3 W.	Easter Island region. h about 33 km.
22	17 33 42.3	6.4 S.	154.1 E.	Solomon Islands region. h about 179 km.
22	21 08 22.9	8.3 N.	123.8 E.	Mindanao, P. I. h about 125 km.
23	03 57 18.0	55.3 N.	167.3 E.	Komandorskie Islands. h about 33 km.
23	12 35 34.2	51.7 N.	173.8 E.	Near Islands, Aleutian Islands. h about 33 km.
23	12 46 22.7	62.2 N.	152.8 W.	Central Alaska. h about 25 km.
23	13 03 44.5	17.5 S.	178.7 W.	Fiji Islands. h about 571 km.
23	15 29 46.6	22.9 N.	120.8 E.	Near south coast of Formosa. h about 17 km.
23	16 48 46.3	21.4 S.	179.1 W.	Fiji Islands. h about 587 km.
23	19 17 26.6	15.6 S.	172.2 W.	Samoa Islands region. h about 33 km.

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
23	19 29 16.0	41.8 N.	124.1 W.	Del Norte County, California. Felt in Northern California and Southern Oregon. Moderate damage in Del Norte County. h about 33 km. Mag. 5-5¼
23	20 52 51.8	56.1 S.	26.6 W.	Sandwich Islands region. h about 33 km.
24	01 24 30.0	16.6 N.	93.0 W.	Chiapas, Mexico. h about 174 km.
24	01 45 35.9	52.3 N.	160.6 E.	Off east coast of Kamchatka. h about 33 km.
24	03 58 46.2	11.2 S.	165.0 E.	Santa Cruz Islands. h about 32 km.
24	06 47 08.1	24.5 S.	178.8 E.	Fiji Islands region. h about 526 km.
24	09 04 22.5	14.9 S.	173.5 W.	Samoa Islands. Felt at Apia. h about 33 km. Mag. 5¼-5½ (Pal).
24	13 15 37.0	17.5 S.	70.4 W.	Peru-Bolivia border region. h about 92 km.
24	15 00 00.154			37°07'47" N., 116°02'22" W. Nevada Test Site. YORK. Shot Elevation 1051.5 meters (AEC).
24	17 00 00.127			37°02'46" N., 116°01'26" W. Nevada Test Site. BOBAC. Shot elevation 1013.2 meters (AEC).
24	18 15 01.9	17.9 S.	178.5 W.	Fiji Islands. h about 600 km.
25	00 29 04.9	44.4 N.	148.7 E.	Kurile Islands region. h about 80 km.
25	02 11 11.5	55.5 N.	155.9 W.	Off southeast coast of Alaska Peninsula. h about 33 km.
25	08 31 48.7	20.5 S.	178.5 W.	Fiji Islands. h about 561 km. Mag. 6.
25	15 07 48.4	34.1 N.	139.0 E.	Near south coast of Honshu, Japan. h about 14 km.
25	15 46 31.5	35.1 N.	138.7 E.	Near south coast of Honshu, Japan. h about 113 km.
25	19 58 47.9	36.7 N.	1.6 E.	Near coast of Algeria. h about 33 km.
26	00 45 28.5	11.3 S.	166.4 E.	Santa Cruz Islands. h about 135 km.
26	01 33 36.6	27.9 N.	129.3 E.	Ryukyu Islands. h about 33 km.
26	06 48 57.1	34.0 N.	139.2 E.	Near south coast of Honshu, Japan. Felt at Tokyo. h about 38 km.
26	07 58 37.6	0.1 N.	121.3 E.	Northern Celebes. h about 185 km.
26	11 02 40.5	52.2 N.	172.3 E.	Near Islands, Aleutian Islands. h about 33 km.
26	16 30 47.0	36.5 N.	1.6 E.	Near coast of Algeria. h about 15 km.
26	22 35 13.9	34.3 N.	139.3 E.	Near south coast of Honshu, Japan. h about 54 km.
26	23 30 38.0	3.7 S.	140.1 E.	New Guinea. h about 50 km.
27	02 18 58.8	40.2 N.	137.8 E.	Sea of Japan. h about 274 km.
27	05 59 10.4	5.7 S.	154.9 E.	Solomon Islands. h about 370 km.
27	09 00 50.9	74.7 N.	50.3 E.	Novaya Zemlya region. h about 0 km. Mag. 4¾ (Pal).
27	09 49 49.4	44.1 N.	149.9 E.	Kurile Islands region. h about 33 km.
27	15 17 56.9	27.1 N.	127.4 E.	Ryukyu Islands region. h about 33 km.
27	16 20 04.7	38.3 N.	142.4 E.	Off east coast of Honshu, Japan. h about 40 km.
27	19 12 49.6	36.5 N.	70.2 E.	Hindu Kush. h about 221 km.
27	22 13 29.6	12.3 S.	167.1 E.	Santa Cruz Islands. h about 220 km.
27	23 28 45.2	6.0 S.	149.5 E.	New Britain region. Felt at Walindi. h about 48 km.
27	23 30 10.4	21.6 S.	171.5 E.	Loyalty Islands region. h about 69 km.

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
28	00 13 25.6	35.0 N.	140.2 E.	Near east coast of Honshu, Japan. h about 33 km.
28	00 18 22.8	34.2 N.	139.7 E.	Near south coast of Honshu, Japan. h about 39 km.
28	00 29 26.4	34.2 N.	139.7 E.	Near south coast of Honshu, Japan. h about 33 km.
28	00 40 04.9	15.7 S.	173.1 W.	Samoa Islands region. h about 33 km.
28	02 49 39.9	34.3 N.	139.6 E.	Near south coast of Honshu, Japan. h about 33 km.
28	08 13 12.4	34.2 N.	139.3 E.	Near south coast of Honshu, Japan. h about 38 km.
28	08 20 30.2	18.4 N.	105.8 W.	Off coast of Jalisco, Mexico h about 41 km. Mag. 4¾-5 (Pal).
28	10 59 56.3	37.8 N.	22.9 E.	Southern Greece. One killed, 25 injured. Moderate property damage. Felt in southern Italy, Sicily, Crete, Malta, southern Yugoslavia and Egypt. Mag. 6¾.
28	22 46 00.8	2.2 S.	67.8 E.	Chagos Islands region. h about 33 km.
29	02 13 08.6	34.9 N.	140.0 E.	Near south coast of Honshu, Japan. h about 33 km.
29	07 38 18.8	24.2 S.	67.1 W.	Salta Province, Argentina. h about 187 km.
29	08 50 32.0	18.0 N.	103.3 W.	Near coast of Michoacan, Mexico. h about 33 km.
29	09 12 00.4	1.9 S.	67.9 E.	Chagos Islands region. h about 33 km.
29	10 14 12.5	7.3 N.	80.5 W.	Near south coast of Panama. Felt at Balboa Heights. h about 33 km.
29	11 30 39.3	30.9 N.	78.4 E.	Northern India. h about 36 km.
29	12 23 20.8	8.0 S.	73.6 W.	Peru-Brazil border. h about 165 km.
29	15 14 27.5	34.5 N.	139.8 E.	Near south coast of Honshu, Japan. h about 33 km.
29	17 39 06.0	34.3 N.	139.5 E.	Near south coast of Honshu, Japan. h about 33 km.
29	18 32 49.3	34.2 N.	139.5 E.	Near south coast of Honshu, Japan. h about 38 km.
29	19 41 03.7	19.4 S.	178.1 W.	Fiji Islands. h about 582 km.
29	20 20 20.5	34.0 N.	139.3 E.	Near south coast of Honshu, Japan. h about 33 km.
29	22 04 07.8	22.6 S.	71.6 W.	Near coast of northern Chile. h about 33 km.
29	22 36 53.9	34.1 N.	139.1 E.	Near south coast of Honshu, Japan. h about 33 km.
30	06 22 27.6	17.4 S.	69.8 W.	Southern Peru. h about 145 km.
30	06 27 07.4	44.1 N.	12.5 E.	Near east coast of Italy. h about 33 km.
30	07 46 27.1	45.5 N.	26.0 E.	Rumania. h about 108 km.
30	11 21 55.1	35.1 N.	140.4 E.	Near east coast of Honshu, Japan. h about 33 km.
30	11 35 08.9	34.0 N.	139.1 E.	Near south coast of Honshu, Japan. h about 33 km.
30	11 36 11.3	40.2 S.	72.6 W.	Southern Chile. Felt at Osorno. h about 37 km.
30	12 10 25.1	42.4 N.	15.0 E.	Near east coast of Italy. h about 33 km.
30	13 35 28.7	41.8 N.	111.8 W.	Northern Utah. Considerable damage in Cache County, Utah. Felt in 5 states. Mag. 5¾-6. h about 37 km.
30	17 17 51.9	21.2 S.	174.4 W.	Tonga Islands. Mag. 5½ (Brk). h about 33 km.
30	19 09 15.9	47.7 S.	32.6 E.	Prince Edward Islands region. h about 33 km.
30	20 16 01.1	9.9 S.	161.8 E.	Solomon Islands. h about 63 km.
31	09 00 04.8	15.3 S.	177.2 W.	Fiji Islands region. h about 59 km.
31	10 33 30.2	15.4 S.	177.3 W.	Fiji Islands region. h about 60 km.

Date 1962	Origin Time G. C. T.	Lat.	Long.	Region, Remarks and Focal Depth
August	h m s	°	°	
31	16 26 04.6	52.5 N.	160.7 E.	Near east coast of Kamchatka. h about 48 km.
31	17 02 44.4	51.3 N.	179.7 W.	Andreanof Islands, Aleutian Islands. Mag. 6¾. h about 32 km.
31	17 56 08.9	51.2 N.	179.9 W.	Andreanof Islands, Aleutian Islands. h about 43 km.
31	21 23 14.4	51.4 N.	179.8 W.	Andreanof Islands, Aleutian Islands. h about 33 km.

Date and Station		Phase	(GCT) h m s
August 1			
FGU		eP	00 06 01
		i	06 03
August 1			
TUT		e(P)	00 07 43
August 1			
ALQ		eP	00 21 57
August 1			
ALQ		iP	00 29 02
August 1			
TUT		e(P)	01 08 29
August 1			
ALQ		iP	01 18 58
		e	19 21
		e	21 35
		e	22 35
August 1			
BCN		eP	02 57 42
COL		iP	02 57 31
EUR		iP	02 57 32
August 1			
ALQ		iP	04 02 13
		e	02 52
COL		iP	04 02 29
		i	02 40
EUR		eP	04 01 56
August 1			
ALQ		iP'	04 47 10
COL		iP	04 40 53
SJP		iP'	04 48 36
August 1			
ALQ		eP	04 51 20
		eP'	55 26
BHP		eP'	04 56 20
		iPP	59 08
		iP'P'	05 17 20
		i	40 22
BCN		eP	04 50 49
BOZ		eP	04 50 57
BUT		eP	04 50 49
		ePKKP	05 07 22
COL		iP	04 49 26
		iPP	52 31
		eS	59 48
EUR		iP	04 50 43
		ePP	54 50
		iPKKP	05 06 29
FGU		e(P)	04 51 04
GCA		e(P)	04 51 13
		e	05 05 59
		ePKKP	07 14
GUA		eP	04 40 54
HON		eP	04 47 18
		e	51 52
		iS	55 54
		iSS	59 58
		eL	05 02 14
HHM		iP	04 50 48
		e	54 03
		ePKKP	05 06 56
KIP		eP	04 47 14
SLC		eP'	04 55 16
		e	55 26
SJP		iP'	04 56 38
SIT		eP	04 49 48
		e	05 00 24
UKI		i(P)	04 51 08
		iP'	55 10
WAS		iP'	04 56 05
		ePP	58 10
August 1			
COL		eP	05 34 54
		i	35 39
EUR		eP	05 34 09
SJP		eP'	05 39 23
		i	40 11
August 1			
COL		eP	08 01 41
August 1			
COL		eP	08 22 05
		e	22 23
SJP		eP	08 29 13
		i	29 19
August 1			
FGU		eP	09 35 46
		eS	36 20
August 1			
COL		eP	10 44 53
August 1			
ALQ		iP	12 31 36
COL		eP	12 32 30
EUR		iP	12 37 26
FGU		eP	12 32 12
August 1			
ALQ		iP	12 51 29
		e	51 57
COL		eP	12 52 12
EUR		eP	12 51 10
		i	51 41
TUC		eP	12 51 08
August 1			
ALQ		iP	13 00 48
		e	01 16
BCN		eP	13 00 25
COL		eP	13 01 04
EUR		eP	13 00 31
GCA		e(P)	13 00 37
TUC		eP	13 00 26
August 1			
COL		eP	13 32 58
		i	33 16
August 1			
BOZ		eP	16 00 52
BUT		eP	16 00 48
COL		iP	15 58 19
EUR		iP	16 01 12
FGU		eP	16 01 14
HHM		iP	16 00 38
		e	01 11
August 1			
COL		e(P)	16 51 01
		e	51 04
August 1			
BOZ		e(P)	18 14 25
FGU		eP	18 14 01
		i	14 02
		i(S)	14 25
EUR		iP	18 14 32
		iL	15 41
August 1			
HHM		iP	20 25 34
		e	25 55
August 1			
ALQ		iP	20 33 09
August 1			
ALQ		iP	22 40 31
August 1			
ALQ		iP	22 52 20
		e	53 03
August 1			
SLC		eP	23 47 51
August 2			
FGU		eP	00 29 10
August 2			
FGU		eP	00 44 28
August 2			
HHM		iP	03 57 08
		e	57 29
August 2			
EUR		e(P)	04 31 26
FGU		e(P)	04 30 31
		e	30 55
HHM		iP	04 31 03
		e	32 02
August 2			
ALQ		iP	04 47 32
		i	49 27
BHP		iP	04 46 41
BUT		eP	04 49 00
COL		eP	04 52 11
EUR		iP	04 48 50
FGU		e(P)	04 48 17
HHM		iP	04 49 17
		ePP	50 12
SJP		eP	04 45 08
TUC		e(P)	04 48 00
WAS		eP	04 46 12
		eL	51 52
August 2			
ALQ		iP	06 11 52
EUR		eP	06 11 51
August 2			
ALQ		iP	06 55 47
August 2			
ALQ		eP	07 15 22
August 2			
ALQ		iP	07 29 36
August 2			
ALQ		iP	08 57 50
August 2			
COL		iP	11 12 10
		i	12 18
August 2			
COL		iP	13 38 55
		i	39 24

Date and Station		Phase (GCT) h m s
EUR	iP	13 39 56
August 2		
COL	iP	14 13 23
	i	13 39
August 2		
COL	iP	15 44 11
	ePP	47 05
August 2		
COL	ip	16 20 08
HHM	iP	16 16 20
THU	eP	16 21 31
	e	23 29
August 2		
FGU	eP	17 24 43
	eS	25 05
August 2		
ALQ	iP	18 13 52
August 2		
BOZ	e(P)	18 35 36
COL	eP	18 32 39
HHM	iP	18 36 36
August 2		
ALQ	iP	19 07 17
August 2		
FGU	e(P)	19 13 04
	eS	13 23
August 2		
SLC	e(P)	19 30 28
	e	30 47
August 2		
SLC	iP	19 42 20
August 2		
ALQ	iP	22 56 16
	e	56 50
August 2		
ALQ	iP	23 09 27
EUR	i(P)	23 10 21
August 3		
THU	e(P)	00 37 58
	i	38 01
	e	40 41
August 3		
ALQ	e(P)	02 10 07
August 3		
ALQ	eP	04 13 43
	e	14 05
	e	15 00

Date and Station		Phase (GCT) h m s
BHP	iP	04 07 22
	iS	08 17
COL	eP	04 18 21
EUR	eP	04 14 52
FGU	e(P)	04 14 30
SJP	eP	04 09 55
	eS	13 09
August 3		
FGU	eP	06 25 21
	eS	25 31
August 3		
BHP	iP	06 43 04
	iS	43 51
EUR	eP	06 50 13
August 3		
ALQ	eP'	07 57 41
	e	57 48
August 3		
ALQ	eP	08 09 33
	e	09 47
COL		08 05 12
EUR	iP	08 08 42
	iScP	14 01
HHM	eP	08 08 10
TUC	iP	08 09 40
TUT	eP	08 09 40
August 3		
ALQ	iP D	09 07 08
	iS	15 52
BHP	iP D	09 02 53
	iS	08 11
BCN	iP	09 08 42
	eS	18 04
BOZ	eP D	09 08 10
	ePP	11 25
	eS	17 59
	e	19 01
BUT	iP D	09 08 14
COL	iP D	09 10 19
	ePP	14 26
	i	16 02
	iS	22 02
	ePKKP	25 49
EUR	iP D	09 07 59
	iPP	10 53
	iP'P'	35 05
FGU	iP D	09 07 45
	e(S)	16 49

Date and Station		Phase (GCT) h m s
GCA	iP D	09 07 35
	eS	16 48
HON	iP D	09 09 45
	iPP	13 40
	eSKS	20 12
	iS	21 12
	iSS	28 00
	eL	40 52
HMM	iP D	09 08 29
	e	13 01
KIP	iP D	09 09 46
RCD	iP D	09 07 45
SLC	iP D	09 07 52
	ePP	11 02
	eS	17 08
SJP	iP D	09 03 51
	iPP	05 34
	iPcP	06 07
	eScP	09 26
	iS	09 51
	iL	13 07
SIT	eP	09 09 40
	ePP	13 40
THU	iP C	09 09 48
	ePP	13 56
	e(PPP)	15 37
TUC	iP D	09 07 09
	eS	16 02
	i	17 02
	e	18 01
	eP'P'	09 35 13
TUT	iP	09 07 09
	iP'P'	35 18
UKI	iP D	09 08 22
	e	09 08
WAS	iP C	09 06 30
	epP	07 02
	PP	08 56
	iS	14 42
	iScS	15 54
	i	18 20
	eP'P'	35 36
August 3		
COL	iP	10 17 10
	i	17 22
EUR	iP	10 17 46
FGU	e(P)	10 18 09
HHM	e(P)	10 18 00
SJP	eP'	10 23 57
TUT	eP	10 17 59

Date and Station		Phase (GCT) h m s
August 3		
COL	eP	10 29 37
EUR	eP	10 29 35
August 3		
ALQ	eP	11 18 16
BCN	eP	11 17 47
	i	17 59
BUT	eP	11 17 19
COL	iP	11 15 13
	iPcP	15 47
EUR	eP	11 17 47
	e	21 11
FGU	e(P)	11 17 42
HHM	iP	11 17 07
August 3		
ALQ	e(P)	12 18 10
August3		
COL	iP'	12 24 46
August 3		
ALQ	eP	15 04 30
August 3		
SLC	iP	16 00 37
August 3		
COL	iP	18 14 02
	epP	14 50
August 5		
SJP	eP	18 25 53
August 3		
ALQ	iP	19 53 19
	e	53 59
August 3		
BHP	iP	20 31 32
	iS	31 58
August 3		
TUT	e(P)	22 05 50
August 3		
COL	iP	22 11 12
August 3		
COL	eP	22 59 17
ALQ	iP'	23 05 23
	e	06 03
August 3		
ALQ	iP	23 08 44
August 4		
ALQ	iP	02 54 59
	e	56 44

B-4297-4

Date and Station		Phase (GCT)
		h m s
BCN	eP	02 55 47
BOZ	eP	02 56 37
BUT	eP	02 56 45
COL	iP	03 00 08
CSC	eP	02 54 43
EUR	iP	02 56 14
GCA	eP	02 55 38
HHM	iP	02 57 06
	ePcP	59 18
SLC	eP	02 56 00
TUC	eP	02 55 01
TUT	iP	02 55 00
WAS	e(P)	02 56 38
	eL	03 04 31
August 4		
COL	iP	05 51 41
	epP	52 15
EUR	eP	05 51 11
TUT	eP	05 51 10
August 4		
EUR	eP	06 36 34
TUT	eP	06 35 19
August 4		
BHP	eP	07 48 31
	iS	49 17
August 4		
ALQ	iP	11 07 09
	e	08 02
August 4		
BHP	iP	11 52 28
	iS	53 13
August 4		
ALQ	e(P)	12 56 48
AUGUST 4		
ALQ	e(P)	19 51 39
August 4		
ALQ	iP	19 56 46
August 4		
ALQ	e(P)	19 59 52

Date and Station		Phase (GCT)
August 4		h m s
ALQ	iP	20 51 27
	e	52 03
August 4		
TUT	iP	21 46 22
August 4		
TUT	eP	22 01 02
August 4		
FGU	eP	22 29 20
	i	29 22
August 4		
FGU	eP	23 51 31
	eS	51 50
GCA	e(P)	23 51 48
	e(S)	52 24
	i	
August 5		
FGU	eP	04 15 35
	eS	16 06
GCA	e(P)	04 15 34
	eS	16 03
August 5		
TUC	eP	08 35 11
TUT	eP	08 35 06
	i	35 11
August 5		
COL	iP	09 16 28
EUR	eP	09 19 39
HON	e(P)	09 20 51
	eL	48 20
August 5		
COL	eP	10 38 40
EUR	eP	10 41 18
August 5		
ALQ	eP	15 21 45
	e	21 56
COL	iP	15 21 07
	i	21 23
EUR	iP	15 21 27
August 5		
ALQ	iP	18 28 18
BHP	iP	18 22 18
	iS	23 01
EUR	e(P)	18 28 25
August 5		
ALQ	iP	21 30 24
August 5		
ALQ	e(P)	21 53 57

Date and Station		Phase (GCT)
August 5		h m s
FGU	eP	22 26 22
	iS	26 30
August 6		
FGU	eP	00 05 53.
August 6		
UKI	iP	01 16 14
August 6		
ALQ	iP	01 44 53
	e	46 22
	eL	00 32
BCN	iP	01 45 34
BOZ	eP	01 44 59
	eS	52 41
BUT	iP	01 45 06
COL	eP	01 46 30
	ePP	48 52
	ePPP	50 37
	eS	55 31
	eP'P'	02 14 45
CSC	eP	01 42 10
	eS	47 18
EUR	iP	01 45 35
FGU	iP	01 44 27
	pP	44 40
	PcP	45 30
GCA	eP	01 45 18
HON	e(P')	01 53 22
	e(S)	02 00 06
	e	03 12
	e(SS)	07 58
	e	17 27
	eL	21 40
HHM	iP	01 45 08
RCD	eP	01 44 19
SLC	eP	01 45 10
SJP	eP	01 41 07
	epP	41 38
	eS	45 30
	eL	46 30
SIT	eP	01 46 20
TUC	eP	01 45 23
	eS	53 23
	eL	02 02 41
TUT	iP	01 45 22
	iPcP	46 15
WAS	iP	01 41 38
	eS	46 33
	eL	49 37

Date and Station		Phase (GCT)
August 6		h m s
COL	eP	02 26 37
EUR	eP	02 21 00
August 6		
FGU	eP	02 42 43
	i	44 02
August 6		
COL	iP	04 41 48
	e(S)	42 11
August 6		
GCA	e(P)	05 46 10
	e	46 14
August 6		
CSC	eP	07 20 37
August 6		
BHP	iP	08 22 19
	iS	23 02
August 6		
ALQ	eP'	08 59 53
	e(PP)	09 00 45
BOZ	e(P')	09 00 15
BUT	eP'	09 00 16
COL	eP'	09 01 00
	i	01 07
CSC	eP'	08 59 26
EUR	eP'	09 00 09
FGU	eP'	08 59 33
HHM	eP'	09 00 19
	e	03 31
SJP	iP	08 53 39
August 6		
ALQ	e(P)	09 10 38
EUR	e(P)	09 10 01
August 6		
COL	eP	09 31 34
EUR	eP	09 35 07
FGU	eP	09 34 52
August 6		
ALQ	iP	10 55 12
BHP	iS	10 49 21
EUR	eP	10 56 24
TUT	eP	10 55 22
August 6		
ALQ	iP	11 25 10

Date and Station		Phase (GCT)
		h m s
EUR	e(P)	11 25 51
August 6		
COL	iP	12 13 15
	e	13 33
August 6		
BOZ	e(P)	12 41 49
August 6		
BCN	iP	14 00 29
August 6		
COL	eP	15 39 53
	ipP	40 23
EUR	eP	15 40 05
August 6		
COL	iP	19 35 32
August 6		
ALQ	iP	21 04 56
	e	06 03
BCN	eP	21 04 34
BOZ	e(P)	21 05 11
BUT	eP	21 05 07
COL	iP	21 05 10
	e	15 42
EUR	iP	21 04 40
	e(S)	15 04
	eP'P'	30 34
FGU	iP	21 05 01
GCA	eP	21 04 47
	e	04 53
	e	05 03
HON	iP	21 00 59
	ePcP	02 32
	iS	08 16
	iScS	11 02
	iL	13 10
August 6		
BOZ	e(P)	21 24 30
KIP	iP	21 00 58
	i	01 11
SLC	eP	21 04 55
	e	05 12
TUC	iP	21 04 33
	eL	27 45
TUT	eP	21 04 35
	e	04 50
UKI	iP	21 04 18
August 6		
BOZ	e(P)	21 24 30

Date and Station		Phase (GCT)
August 7		h m s
COL	iP	00 37 54
		38 03
August 7		
ALQ	eP	00 52 24
	e	52 35
	e	53 32
EUR	e(P)	00 53 12
	eL	55 39
FGU	iP	00 51 21
	i	51 39
	iS	52 23
GCA	e(P)	00 52 33
	e	53 53
RCD	e(P)	00 52 24
August 7		
ALQ	e(P)	01 43 00
FGU	eP	01 41 34
	eS	42 14
August 7		
ALQ	eP'	03 21 03
	e(SKP)	24 24
COL	eP	03 14 55
EUR	eP'	03 20 47
FGU	e(P')	03 20 48
August 7		
COL	iP	05 25 57
August 7		
COL	iP	06 31 20
EUR	iP	06 30 59
August 7		
EUR	eP	07 45 22
August 7		
ALQ	e(P')	09 04 36
EUR	eP'	09 03 04
	e(PP)	04 35
FGU	e(P')	09 02 53
	e(PP)	04 28
SJP	i(P')	09 04 53
August 7		
THU	e(P)	12 24 56
August 7		
COL	eP	14 49 16
August 7		
COL	e(P)	18 34 06
August 7		
ALQ	iP	19 29 25
BHP	iP	19 23 32
COL	e(P)	19 34 08
EUR	eP	19 30 38

Date and Station		Phase (GCT)
August 7		h m s
CSC	e(P)	20 28 07
August 7		
FGU	eP	21 18 30
	eS	19 01
August 7		
ALQ	iP	21 41 51
	e	42 40
August 7		
ALQ	iP	22 34 43
	e(S)	36 07
BCN	iP	22 33 44
	e	34 53
EUR	iP	22 34 32
FGU	e(P)	22 35 12
GCA	iP	22 34 13
	iS	35 54
TUC	e(P)	22 33 43
	e	33 55
	i(S)	22 34 51
TUT	eP	22 33 43
	i	34 00
	i(S)	34 53
August 7		
FGU	iP	23 09 56
	e(S)	10 38
August 7		
FGU	e(P)	23 22 14
	eS	22 36
August 8		
FGU	iP	03 22 25
	i	22 46
August 8		
FGU	eP	05 01 36
August 8		
EUR	cP	07 17 55
August 8		
COL	iP	09 31 03
EUR	iP	09 30 47
August 8		
FGU	eP	09 50 08
	e(S)	50 34
August 8		
ALQ	eP	10 30 57
BHP	iP	10 25 05
COL	eP	10 35 36
EUR	eP	10 32 11

Date and Station		Phase (GCT)
August 8		h m s
ALQ	eP	11 03 32
BCN	eP	11 02 46
COL	eP	10 58 55
EUR	iP	11 02 22
FGU	e(P)	11 02 46
GCA	e(P)	11 02 54
HHM	iP	11 01 54
	e	02 29
	ePcP	04 20
TUC	iP	11 03 23
August 8		
COL	eP	12 13 07
EUR	eP	12 13 18
August 8		
EUR	eP	12 25 25
August 8		
ALQ	iP	12 34 37
EUR	iP	12 35 16
FGU	eP	12 35 10
August 8		
COL	eP	13 03 52
EUR	e(P)	13 03 18
August 8		
COL	eP	13 47 58
EUR	iP	13 48 13
August 8		
COL	iP	14 13 06
August 8		
FGU	eP	16 57 49
	i	58 00
	iS	58 25
SLC	iP	16 57 19
	e	58 30
August 8		
COL	iP	17 26 23
EUR	eP	17 28 26
FGU	eP	17 28 45
GUA	e(P)	17 17 53
HHM	iP	17 28 18

8-4297-4.

Date and Station		Phase (GCT)
		h m s
August 8		
UKI	e(P)	17 57 56
	e	58 03
August 8		
COL	iP	18 04 22
EUR	eP	18 07 20
August 8		
HHM	eP	20 05 06
August 8		
COL	eP	23 36 40
August 9		
EUR	eP	00 32 37
FGU	eP	00 32 25
HHM	iP	00 33 08
	e	33 36
SJP	eP	00 28 29
TUT	eP	00 31 48
August 9		
EUR	eP	02 08 04
August 9		
HHM	iP	04 01 03
	e	03 14
August 9		
BHP	iP	04 23 30
	iS	24 43
BCN	iP	04 30 19
BOZ	eP	04 30 39
BUT	eP	04 30 47
COL	iP	04 33 32
	i	33 43
	iPP	36 27
CSC	iP	04 27 33
EUR	iP	04 30 37
FGU	eP	04 30 10
GCA	iP	04 30 06
SJP	eP	04 24 55
	eS	27 13
	i	31 09
	i	33 44
TUC	iP	04 29 41
	e	35 04
	e(S)	36 02
TUT	eP	04 29 38
	i	30 31
	e	32 08
	i	35 04
	e(S)	35 57
WAS	iP	04 28 09

Date and Station		Phase (GCT)
		h m s
August 9		
BCN	iP	06 31 23
BUT	eP	06 31 55
CSC	eP	06 29 42
EUR	iP	06 31 40
FGU	eP	06 31 26
GCA	eP	06 31 17
GUA	iP'	06 39 22
HHM	iP	06 32 08
	e	32 56
SJP	iP	06 27 33
	ipP	28 14
	iPP	29 23
	eL	36 56
TUC	eP	06 30 50
TUT	iP	06 30 51
August 9		
HHM	eP	08 09 38
RCD	iP	08 10 22
August 9		
BUT	iP	08 11 41
EUR	e(P)	08 12 54
	i	13 03
	iL	14 27
FGU	eP	08 12 25
	i	13 24
HHM	eP	08 12 17
	e	13 18
RCD	e(P)	08 13 17
SLC	e(P)	08 12 38
	e	13 24
August 9		
COL	iP	10 53 50
EUR	eP	10 56 30
FGU	e(P)	10 56 40
HHM	iP	10 56 09
	epP	56 52
August 9		
UKI	iP	11 19 16
August 9		
COL	eP	13 03 46
EUR	eP	13 00 49
August 9		
ALQ	iP	17 37 21

Date and Station		Phase (GCT)
		h m s
EUR	eP	17 37 55
TUT	eP	17 37 13
August 9		
FGU	e(P)	19 18 47
	eS	19 17
August 9		
ALQ	eP	22 03 22
FGU	eP	22 02 32
	e(S)	03 13
August 9		
COL	eP	22 37 50
EUR	iP	22 41 33
	epP	41 50
August 9		
ALQ	eP	22 49 33
	e	50 26
August 10		
THU	e(P)	00 38 41
	i	38 45
August 10		
ALQ	eP	00 55 16
	e	55 37
	e	56 47
FUG	eP	00 54 29
	i(S)	54 58
GCA	eP	00 54 27
	eS	54 56
TUC	e(P)	00 56 01
	eL	57 32
August 10		
ALQ	eP	04 06 33
	e	06 54
	e	08 05
EUR	e(P)	04 06 04
FGU	iP	04 05 46
	iS	06 16
GCA	eP	04 05 46
	e(S)	06 13
SLC	iP	04 05 32
TUC	e(P)	04 07 07
	eL	08 49
TUT	e(P)	04 07 10
August 10		
TUT	e(P)	05 35 24
August 10		
COL	eP	05 51 31

Date and Station		Phase (GCT)
		h m s
August 10		
BHP	iP	06 39 39
	iS	40 22
August 10		
BHP	iP	07 03 01
	iS	03 43
August 10		
BHP	iP	09 36 07
	i	36 46
SJP	eP	09 39 41
August 10		
HHM	iP	13 43 53
August 10		
UKI	iP	14 08 25
August 10		
GUA	iP	15 47 37
August 10		
SLC	eP	17 03 39
August 10		
BCN	e(P)	19 19 37
EUR	eP	19 20 02
TUT	e(P)	19 21 01
August 10		
ALQ	eP	20 51 07
	e	51 35
HHM	iP	20 53 04
	e	53 33
THU	e(P)	20 47 08
	i	47 12
August 10		
ALQ	iP	21 13 47
	e(PcP)	14 28
BCN	eP	21 14 08
BUT	eP	21 13 23
COL	iP	21 13 43
	eS	21 40
CSC	eP	21 11 43
EUR	iP	21 14 06
FGU	iP	21 13 32
	i	14 32
GCA	eP	21 13 59
HHM	iP	21 13 18
	iS	14 25
SLC	iP	21 13 43
SJP	eP	21 11 59
THU	iP	21 10 23

B.4297-4

Date and Station		Phase (GCT)
		h m s
TUT	eP	21 14 15
UKI	iP	21 14 36
August 10		
COL	iP	23 54 19
August 11		
ALQ	iP	01 59 24
	epP	02 01 39
BCN	eP	01 58 48
	epP	02 00 56
COL	iP	01 59 22
	ipP	02 01 35
	eSKS	08 52
	iS	09 15
	iPKKP	17 36
EUR	iP	01 59 02
	ipP	02 01 13
FGU	eP	01 59 26
	e	02 01 09
GCA	eP	01 59 12
GUA	iP	01 55 31
	i	55 56
	i(ScP)	59 41
HON	iP	01 55 08
	esP	58 05
	iS	02 01 10
	iScS	04 04
	e	08 14
HHM	iP	01 59 30
	epP	02 01 46
SLC	iP	01 59 19
	epP	02 01 33
TUC	iP	01 59 01
	ipP	02 01 14
TUT	iP	01 59 02
	ipP	02 01 14
August 11		
ALQ	eP	02 09 22
HHM	iP	02 12 04
	e	12 24
August 11		
EUR	eP	02 17 17
COL	iP	02 17 37
August 11		
ALQ	eP	06 59 39
BCN	eP	06 58 10
BOZ	e(P)	07 00 50

Date and Station		Phase (GCT)
		h m s
BUT	eP	06 59 45
COL	iP	06 59 58
	ePP	07 03 27
EUR	iP	06 59 14
FGU	eP	06 59 42
GCA	e(P)	06 59 25
HON	eS	07 00 56
	eL	03 57
SLC	eP	06 59 33
TUC	e(P)	06 59 13
TUT	eP	06 59 13
	i	59 17
August 11		
TUT	e(P)	08 03 29
August 11		
ALQ	eP	08 29 35
	ePP	33 42
	eSKS	40 03
BCN	eP	08 28 06
BOZ	eP	08 28 48
	epP	29 26
	ePP	32 31
BUT	iP	08 28 43
	eS	39 00
	e	39 34
COL	iP	08 26 23
	i	26 36
	eS	34 58
	i	35 04
	i(ScS)	36 06
	eSS	39 09
	iP'P'	54 44
CSC	eP'	08 34 13
EUR	iP	08 28 54
	ipP	29 28
	iPP	32 31
	i(S)	38 42
	e PKKP	46 19
	eP'P'	54 04
FGU	iP	08 29 07
GCA	e(P)	08 29 13
GUA	iP	08 20 20
	i	21 05
	eS	24 48
	eT	42 30

Date and Station		Phase (GCT)
		h m s
HON	iP	08 26 52
	ipP	27 25
	e	32 12
	iS	36 00
	e	40 11
	eL	44 10
RCD	eP	08 29 10
	eSKS	39 36
SLC	iP	08 29 01
	eS	33 02
	iSKS	39 27
SJP	eP'	08 34 48
	i(pP')	35 17
	eSKP	38 04
	iSKKS	44 06
SIT	eP	08 27 13
	eS	36 40
THU	iP	08 27 30
	i	27 40
	epP	28 09
	e	28 24
TUC	eP	08 29 27
	ePP	33 30
	eSKS	40 00
	e	42 36
TUT	eP	08 29 27
	iPP	33 37
UKI	eP	08 28 45
August 11		
BHP	iP	08 52 12
	iS	52 50
August 11		
COL	eP	11 52 57
	e	57 08
SIT	eP	11 50 36
August 11		
EUR	e(P)	14 29 17
August 11		
ALQ	e(P)	17 10 51
August 11		
COL	iP	18 24 38
GUA	eP	18 17 07
	i	17 24
August 11		
EUR	eP'	18 31 09
August 11		
BHP	iP	18 44 52
	iS	45 38

Date and Station		Phase (GCT)
August 11		h m s
ALQ	iP	19 44 53
	e	45 34
August 11		
ALQ	iP	20 07 18
August 11		
TUC	iP	21 14 17
	eL	36 50
August 11		
ALQ	iP	21 47 38
August 11		
TUT	e(P)	21 51 30
August 11		
FGU	eP	22 03 15
	eS	03 39
August 11		
BHP	iP	22 14 26
	iS	14 55
August 11		
ALQ	iP	23 50 27
August 11		
FGU	eP	23 53 39
	eS	53 59
August 12		
FGU	eP	02 08 52
	eS	09 11
August 12		
COL	eP	03 49 13
EUR	eP	03 49 35
August 12		
COL	iP	05 01 24
	e	05 50
August 12		
ALQ	eP	05 19 26
COL	iP	05 24 21
EUR	eP	05 20 40
TUT	eP	05 19 34
August 12		
FGU	iP	06 20 18
August 12		
COL	iP'	10 57 55
	i	58 07
SJP	iP	10 50 26
August 12		
COL	iP	11 22 14
August 12		
TUT	e(P)	11 33 15

Date and Station		Phase (GCT) h m s
August 12		
FGU	eP	12 10 01
	eS	10 18
August 12		
FGU	eP	18 55 12
	eS	55 19
August 12		
COL	eP	19 14 22
EUR	eP	19 14 29
August 12		
EUR	e(P)	19 24 47
	eL	26 17
FGU	eP	19 24 19
	i	24 22
	i(S)	25 17
HHM	iP	19 24 04
	iS	25 06
SLC	e(P)	19 24 20
	e	25 17
August 12		
UKT	iP	20 16 57
August 12		
ALQ	iP	20 47 10
	e	47 36
EUR	eP	20 47 50
FGU	eP	20 47 44
TUT	eP	20 47 06
August 12		
BCN	eP	21 38 56
GCA	e(P)	21 39 38
August 12		
FGU	eP	22 08 42
	eS	09 05
August 12		
TUT	iP	22 15 50
August 12		
FGU	e(P)	23 22 03
	eS	22 21
August 13		
GCA	e(P)	00 44 24
TUT	iP	00 43 24
August 13		
FGU	eP	01 24 11
August 13		
COL	iP	01 27 05
EUR	eP	01 27 47

Date and Station		Phase (GCT) h m s
THU	e(P)	01 30 29
August 13		
FGU	eP	02 03 40
	i	04 15
August 13		
FGU	eP	02 46 57
	e	47 55
August 13		
GCA	e(P)	03 16 14
August 13		
GCA	eP	03 35 38
August 13		
ALQ	iP	06 43 21
	i(PcP)	45 17
BHP	iP	06 37 49
	i(S)	39 39
BCN	eP	06 44 06
BOZ	eP	06 44 46
	eS	52 06
	eL	07 02 21
BUT	iP	06 44 54
COL	eP	06 47 48
	iPP	50 46
	eS	57 38
CSC	eP	06 42 19
	eS	47 17
EUR	iP	06 44 30
FGU	eP	06 44 10
GCA	eP	06 43 57
HON	eP	06 47 12
	iScS	57 19
	e	07 01 38
	ePKKP	05 32
	eL	07 10
HHM	e(P)	06 45 12
	e(S)	52 45
RCD	eP	06 44 13
SLC	iP	06 44 20
	ePP	46 19
SJP	iP	06 41 04
	ePP	41 33
	eS	45 19
TUC	eP	06 43 23
	eS	49 22
	eL	55 10

Date and Station		Phase (GCT) h m s
August 13		
GCA	eP	07 35 29
August 13		
ALQ	iP	10 14 27
	e	15 02
BCN	iP	10 15 16
BOZ	e(P)	10 16 29
BUT	eP	10 16 12
COL	iP	10 19 37
	i	19 55
	ipP	20 15
CSC	eP	10 14 13
EUR	eP	10 15 42
FGU	eP	10 15 24
TUC	eP	10 14 29
	eL	24 03
TUT	eP	10 14 29
	i	14 30
	e	15 11
August 13		
ALQ	eP	10 28 00
FGU	eP	10 28 28
TUT	eP	10 28 03
August 13		
ALQ	iP	10 47 05
EUR	e(P)	10 47 26
TUT	e(P)	10 47 03
August 13		
COL	iP	13 51 07
August 13		
COL	eP	14 57 12
August 13		
COL	eP	16 38 32
August 13		
EUR	eP	17 33 26
August		
ALQ	eP	20 24 24
BCN	eP	20 23 57
COL	iP	20 20 20
EUR	eP	20 23 48
August 13		
ALQ	eP	21 09 54
	e	10 34

Date and Station		Phase (GCT) h m s
August 13		
COL	iP	22 12 56
	i	13 44
EUR	iP	22 18 44
August 14		
COL	eP'	01 29 47
EUR	eP'	01 29 24
HON	eS	01 32 42
	eL	45 56
August 14		
TUC	e(P)	01 47 16
	eL	02 01 10
August 14		
ALQ	eP	05 27 25
EUR	eP	05 28 02
TUT	eP	05 27 28
August 14		
COL	eP	07 40 20
	e	40 37
August 14		
COL	eP	08 41 13
August 14		
TUT	eP	10 28 03
	e	29 44
August 14		
ALQ	iP	11 52 14
	e	53 00
BCN	eP	11 54 04
COL	iP	11 57 19
TUT	eP	11 53 19
August 14		
EUR	eP	12 51 47
August 14		
ALQ	eP	20 52 34
	e	53 11
August 14		
FGU	iP	23 10 31
	i(S)	11 01
August 14		
GCA	eP	23 59 09
August 15		
EUR	eP	01 34 46
August 15		
ALQ	eP	01 58 13
	e	02 00 04
BCN	eP	01 56 31
	eL	57 10

Date and Station		Phase (GCT)
		h m s
GCA	e(P)	01 56 57
August 15		
COL	eP	02 54 50
EUR	iP	02 57 32
FGU	eP	02 57 50
August 15		
ALQ	iP	03 21 23
BCN	eP	03 20 45
COL	eP	03 16 28
EUR	iP	03 20 22
August 15		
FGU	eP	07 58 59
August 15		
ALQ	iP	08 30 04
	e	30 45
BCN	iP	08 29 28
	i	29 37
BOZ	eP	08 28 53
BUT	eP	08 28 45
COL	iP	08 25 14
EUR	iP	08 29 06
	i	29 14
FGU	eP	08 29 23
GCA	eP	08 29 32
HON	e(S)	08 34 41
	e	37 58
	eL	40 25
HHM	iP	08 28 27
KIP	eP	08 27 50
RCD	iP	08 29 29
August 15		
COL	eP	08 41 22
August 15		
TUT	e(P)	09 43 42
	e	43 51
August 15		
ALQ	iP	10 19 23
COL	iP	10 15 15
EUR	iP	10 18 37
FGU	eP	10 18 50
HHM	eP	10 18 04

Date and Station		Phase (GCT)
August 15		h m s
ALQ	iP	11 29 49
	ePcP	31 02
BCN	iP	11 29 04
BOZ	eP	11 28 36
BUT	eP	11 28 28
COL	eP	11 25 13
	e	32 58
	e	33 21
CSC	eP	11 31 36
EUR	iP	11 28 42
FGU	eP	11 29 06
	iPcP	30 42
GCA	eP	11 29 14
HHM	iP	11 28 11
	i(PcP)	30 19
RCD	iP	11 29 19
SJP	iP	11 33 30
TUT	eP	11 29 41
August 15		
EUR	eP	13 27 42
August 15		
ALQ	eP	16 34 11
EUR	eP	16 34 32
August 15		
EUR	eP	17 26 26
August 15		
ALQ	iP	17 49 41
	e	50 20
August 15		
COL	eP	18 18 15
EUR	iP	18 19 56
HHM	eP	18 18 50
	e(S)	22 56
SIT	iP	18 15 58
	iS	16 04
August 15		
COL	eP	18 20 23
	iS	21 10
August 15		
BOZ	e(P)	18 23 56
BUT	e(P)	18 23 57
August 15		
ALQ	e(P)	18 54 27

Date and Station		Phase (GCT)
August 15		h m s
FGU	eP	19 20 36
	eS	20 56
August 15		
FGU	eP	19 25 34
	eS	26 01
August 15		
COL	iP	19 57 46
August 15		
CSC	eP	22 24 38
August 15		
ALQ	iP	23 00 02
August 15		
SLC	eP	23 09 02
August 15		
SLC	eP	23 47 38
August 15		
SLC	eP	23 53 03
August 16		
EUR	eP	00 40 10
August 16		
EUR	eP	01 26 13
August 16		
FGU	eP	02 04 17
	iS	05 02
August 16		
BCN	iP	03 35 43
	i	35 59
August 16		
FGU	eP	08 04 15
	i	04 16
August 16		
ALQ	iP	08 58 13
COL	eP	08 55 27
EUR	iP	08 57 29
FGU	eP	08 57 50
HHM	iP	08 57 22
TUC	e(P)	08 58 02
August 16		
GUA	e(P)	09 46 38
August 16		
GUA	iP	09 55 23
August 16		
ALQ	e(P)	13 57 17
August 16		
HHM	e(P)	14 35 07

Date and Station		Phase (GCT)
August		h m s
BHP	iP	14 51 23
	iS	52 08
EUR	e(P)	14 58 25
HHM	eP	14 59 02
August 16		
EUR	eP	16 53 41
August 16		
TUT	eP	18 10 10
August 16		
FGU	eP	18 41 15
	eS	41 34
August 16		
CSC	eP	18 45 43
August 16		
TUT	eP	19 04 36
August 16		
ALQ	iP	19 47 59
	iS	48 39
August 16		
TUT	e(P)	21 10 22
August 16		
COL	iP	21 26 11
August 16		
COL	eP	22 22 10
August 16		
TUT	e(P)	22 35 25
August 16		
SLC	iP	23 17 20
	e	17 48
August 16		
SLC	eP	23 23 17
August 16		
TUT	eP	23 47 03
August 17		
ALQ	iP	00 29 28
August 17		
ALQ	iP	00 44 39
BUT	iP	00 44 51
COL	iP	00 44 48
EUR	eP	00 44 15
HON	eP	00 41 23
	eS	48 08
	eSS	51 00
	eL	53 35
HHM	e(P)	00 44 48
	e	44 53

8-4397-4

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

8-4397-4

Date and Station		Phase (GCT)
		h m s
BUT	eP	16 49 41
	i	50 35
	e(S)	54 51
COL	iP	16 44 46
CSC	eP	16 53 03
	e(S)	17 00 26
EUR	iP	16 50 17
	iPcP	53 08
	iScP	56 52
FGU	iP	16 50 31
GCA	e(P)	16 50 51
HON	eP	16 51 35
	eS	57 54
	eL	17 00 54
HHM	eP	16 49 21
	i	49 35
	ePcP	52 51
	eL	57 22
KIP	eP	16 51 36
RCD	e(P)	16 50 33
SLC	iP	16 50 24
SJP	iP	16 55 17
SIT	eP	16 46 18
TUC	eP	16 51 27
	eS	57 20
	eL	17 04 11
WAS	eP	16 52 40
	eS	59 36
	eL	17 09 06
August 18		
FGU	eP	17 33 39
	i	33 47
	eS	34 23
August 18		
ALQ	iP	17 53 45
	e	54 42
	e(PP)	55 52
	iS	59 59
BOZ	eP	17 52 11
BUT	eP	17 52 04
	e	57 03
COL	iP	17 47 07
CSC	eP	17 55 23
	eS	18 02 22
	e	13 45
EUR	iP	17 52 39
	iPcP	55 21
	iScP	59 08

Date and Station		Phase (GCT)
		h m s
FGU	eP	17 52 51
GCA	eP	17 53 12
HON	eP	17 53 57
	eS	18 00 14
	eL	03 15
HHM	eP	17 51 41
	eS	56 18
KIP	eP	17 53 56
RCD	iP	17 52 54
SLC	eP	17 52 43
SJP	iP	17 57 38
SIT	eP	17 48 38
	iS	50 29
	iL	51 18
TUC	eP	17 53 47
	iPP	55 15
	eS	59 42
	eL	18 03 08
UKI	eP	17 52 17
WAS	iP	17 55 08
	eS	18 02 16
August 18		
COL	eP	19 29 05
EUR	eP	19 32 10
August 18		
COL	iP	20 57 25
EUR	eP	20 57 08
August 18		
COL	iP	21 07 04
	iS	07 54
August 18		
EUR	eP	21 31 47
August 18		
COL	eP	23 02 07
EUR	eP	23 02 57
August 18		
COL	eP	23 24 20
EUR	iP	23 27 51
August 19		
ALQ	iP	00 33 28
	ipP	34 25
EUR	iP	00 34 20
FGU	eP	00 34 05

Date and Station		Phase (GCT)
		h m s
GCA	eP	00 33 56
HHM	eP	00 34 48
SJP	iP	00 29 59
TUC	eP	00 33 30
August 19		
COL	iP	03 07 06
EUR	eP	03 06 14
HON	iP	02 59 31
	iS	03 00 06
KIP	iP	02 59 31
	iS	03 00 06
August 19		
COL	eP	03 30 29
August 19		
ALQ	iP	04 26 26
COL	iP	04 26 35
EUR	eP	04 26 02
August 19		
FGU	eP	04 48 05
August 19		
ALQ	iP	06 33 41
COL	eP	06 32 39
EUR	eP	06 32 06
FGU	e(P)	06 32 35
HHM	eP	06 31 07
RCD	eP	06 33 00
TUC	eP	06 33 41
August 19		
COL	eP	06 51 50
August 19		
COL	iP	10 52 19
	e	11 00 44
EUR	eP	10 53 19
August 19		
COL	eP	11 28 50
EUR	eP	11 31 22
August 19		
EUR	eP	14 53 53
August 19		
EUR	eP	16 38 04
August 19		
ALQ	eP	17 34 05
	e	34 24
	eS	35 31

Date and Station		Phase (GCT)
		h m s
EUR	iP	17 33 36
	i	33 44
	i(S)	34 29
August 19		
COL	eP	18 05 41
August 19		
COL	iP	18 12 35
	i	12 44
August 19		
COL	iP	18 18 58
	i	19 07
August 19		
ALQ	iP	18 40 25
	e(pP)	40 36
	ePP	44 36
BOZ	eP	18 39 34
	e	40 44
BUT	eP	18 39 30
	ipP	39 42
	i	40 25
	e	42 13
	ePP	43 11
	e(S)	49 52
COL	iP	18 37 11
	iPP	39 45
	iS	45 45
	e	46 25
	eP'P'	19 05 41
CSC	e(P)	18 40 33
	ePP	44 32
EUR	iP	18 39 59
	iPP	44 05
	ePKKP	56 55
	eP'P'	19 05 03
FGU	eP	18 39 57
	ipP	40 08
GCA	e(P)	18 40 13
GUA	eP	18 36 52
	e	38 54
	ePP	39 22
HHM	eP	18 39 19
	ePP	42 20
RCD	e(P)	18 39 44
	ipP	39 55
SLC	eP	18 40 36
	ipP	40 46
	e	43 52
SIT	eP	18 38 15
	ipP	38 26
	eS	47 32

8-4297-4

Date and Station		Phase (GCT) h m s
THU	iP	18 37 36
	e	38 28
	e	38 21
	e(PP)	39 45
TUC	e(P)	18 40 33
	e(PKKP)	56 51
	e(P'P')	19 04 51
	eL	20 41
August 19		
COL	eP	21 31 36
August 19		
ALQ	e(P)	22 44 53
	e	46 43
	e	47 24
August 19		
ALQ	iP	23 24 01
	e(pP)	24 21
	e	25 05
BCN	iP	23 24 31
BOZ	iP	23 25 02
	epP	25 22
BUT	iP	23 25 08
	ipP	25 28
COL	iP	23 27 10
CSC	eP	23 23 01
EUR	iP	23 24 49
FGU	iP	23 24 38
GCA	iP	23 24 26
GUA	eP'	23 32 21
	e	33 24
	eSKP	36 31
HHM	iP	23 25 19
RCD	iP	23 24 38
	ipP	24 59
SLC	iP	23 24 42
	epP	25 03
	e	26 14
SJP	eP	23 21 02
	epP	21 20
	i	21 54
	ePP	22 50
	eS	27 26
	eL	30 53
TUC	iP	23 23 59
August 19		
HHM	e(P)	23 49 26
	eS	50 18

Date and Station		Phase (GCT) h m s
August 20		
HHM	eP	00 32 44
	eS	33 03
August 20		
GUA	iP	00 35 21
	eS	35 46
August 20		
ALQ	iP	00 56 57
	eS	57 02
August 20		
HHM	e(P)	01 30 07
August 20		
EUR	iP	02 10 50
August 20		
ALQ	eP	02 52 58
EUR	eP	02 53 49
FGU	e(P)	02 53 12
August 20		
GCA	e(P)	06 55 35
August 20		
COL	eP	09 08 19
EUR	eP	09 12 12
August 20		
COL	iP	09 09 55
EUR	eP	09 13 05
August 20		
TUC	e(P)	10 09 34
August 20		
TUC	e(P)	10 35 33
August 20		
ALQ	eP	10 45 13
	e	45 51
	eL	47 29
BCN	eP	10 44 36
BOZ	eP	10 46 58
BUT	eP	10 46 58
	eL	51 45
COL	eP	10 50 57
EUR	iP	10 45 30
	eL	48 01
GCA	eP	10 44 56
RCD	eP	10 47 08
SLC	eP	10 45 52
TUC	e(P)	10 44 09

Date and Station		Phase (GCT) h m s
August 20		
FGU	eP	10 49 49
	eS	50 29
HHM	eP	10 49 17
August 20		
CSC	e(P)	10 58 06
August 20		
BHP	iP	11 22 44
	iS	23 08
August 20		
COL	iP	11 34 30
	ipP	36 40
EUR	eP	11 34 08
FGU	eP	11 34 32
August 20		
HHM	eP	11 47 25
	eS	52 43
August 20		
ALQ	eP	13 05 33
	e	06 10
	eS	07 40
BCN	eP	13 05 26
FGU	e(P)	13 06 36
GCA	e(P)	13 05 13
TUC	eP	13 04 25
August 20		
COL	e(P')	13 15 15
EUR	eP'	13 17 28
August 20		
ALQ	iP	13 20 15
	e	20 23
	e	22 35
BOZ	eP	13 21 54
BUT	eP	13 22 00
COL	iP	13 25 25
CSC	eP	13 20 05
EUR	iP	13 21 30
HHM	e(P)	13 22 18
TUC	eP	13 20 17
	eL	29 22
August 20		
ALQ	eP	14 04 08
	e	04 39
EUR	eP	14 04 09

Date and Station		Phase (GCT) h m s
GCA	eP	14 03 37
TUC	e(P)	14 02 54
	eL	06 06
August 20		
ALQ	eP	14 07 37
	e	08 01
	eS	09 39
August 20		
COL	eP	14 40 26
EUR	eP	14 41 59
THU	e(P)	14 37 36
August 20		
COL	e(P)	15 27 57
August 20		
HHM	e(P)	16 26 05
August 20		
HHM	eP	16 48 22
August 20		
ALQ	e(P)	23 01 55
	e	04 03
	i	05 56
August 20		
FGU	eP	23 07 37
	eS	08 01
GCA	eP	23 07 58
August 20		
COL	iP	23 31 17
EUR	iP	23 31 33
	iPP	35 07
August 20		
FGU	eP	23 59 49
	i	59 51
	e(S)	24 00 21
August 21		
ALQ	eP	00 18 39
	e	19 01
	e	20 06
GCA	eP	00 17 58
August 21		
ALQ	iP	02 16 45
BUT	e(P)	02 15 27
COL	eP	02 18 14
EUR	eP	02 14 48
GCA	e(P)	02 15 47
TUC	eP	02 16 25

Date and Station		Phase (GCT) h m s
TUT	eP	02 16 26
August 21		
ALQ	eP	02 38 06
	e	38 28
	eS	39 03
EUR	eP	02 37 43
FGU	iP	02 37 16
	i	37 41
GCA	eP	02 37 25
SLC	eP	02 37 08
TUC	eP	02 38 50
August 21		
COL	iP	02 51 10
EUR	iP	02 54 37
August 21		
ALQ	eP	03 01 40
COL	eP	03 03 02
EUR	eP	02 59 37
TUC	eP	03 01 21
TUT	eP	03 01 22
August 21		
COL	iP	04 39 30
EUR	eP	04 41 58
August 21		
FGU	eP	06 06 03
	eS	06 25
August 21		
ALQ	e(P)	06 10 03
	e	11 20
August 21		
EUR	eP	07 37 45
August 21		
EUR	e(P)	08 12 38
August 21		
COL	eP	10 16 42
EUR	eP	10 20 23
August 21		
BHP	iP	11 10 58
	iS	11 25
August 21		
GCA	e(P)	12 33 55
	e	33 59
August 21		
ALQ	eP	16 23 10

Date and Station		Phase (GCT) h m s
COL	iP	16 23 28
EUR	eP	16 22 54
	ipP	23 06
August 21		
COL	iP	17 16 56
EUR	eP	17 16 22
August 21		
ALQ	iP	17 37 43
	ePcP	39 21
BOZ	eP	17 36 14
BUT	eP	17 36 08
COL	iP	17 31 04
	e	31 42
	i	32 00
EUR	iP	17 36 37
FGU	e(P)	17 36 5[illegible]
HHM	eP	17 35 39
August 21		
COL	iP	17 53 51
	i(S)	54 40
August 21		
BOZ	iP	18 21 20
BUT	iP	18 21 21
	eS	24 25
COL	iP	18 20 36
	i	20 58
	e	23 10
CSC	eP	18 20 32
EUR	iP	18 21 56
FGU	iP	18 21 35
HHM	eP	18 21 14
SLC	eP	18 21 41
TUT	eP	18 22 10
August 21		
ALQ	e(P)	18 32 16
BOZ	eP	18 31 45
BUT	iP	18 31 47
	iPP	34 52
COL	iP	18 31 02
	eS	40 28
CSC	eP	18 31 00
EUR	iP	18 32 21
FGU	eP	18 3[illegible] 01

Date and Station		Phase (GCT) h m s
GCA	eP	18 32 20
HHM	eP	18 31 40
	eS	41 47
SLC	eP	18 32 07
THU	eP	18 28 18
TUC	eP	18 32 37
	e	46 49
	eL	55 40
TUT	eP	18 32 36
WAS	eP	18 30 27
August 21		
BOZ	eP	18 57 11
BUT	eP	18 57 13
COL	iP	18 56 28
EUR	eP	18 57 46
FGU	eP	18 57 25
August 21		
ALQ	iP	20 04 24
	iS	05 04
August 21		
ALQ	iP	21 04 05
	eS	05 25
August 21		
BOZ	e(P)	21 19 19
BUT	eP	21 19 14
COL	iP	21 19 20
	iPP	23 24
	eL	55 12
EUR	iP	21 18 49
FGU	eP	21 19 12
GCA	e(P)	21 18 52
KIP	iP	21 15 17
TUC	eP	21 18 44
	e(S)	28 31
	eL	39 44
TUT	eP	21 18 42
August 21		
BHP	iP	21 18 41
	iS	25 53
	iL	30 50
BOZ	iP	21 21 29
BUT	eP	21 21 30
	i	21 42
	eS	31 16

Date and Station		Phase (GCT) h m s
CSC	eP	21 20 58
EUR	iP	21 20 53
	iP'P'	49 09
HON	iS	21 29 48
	iScS	31 06
	eSS	34 10
	iSSS	37 28
	iL	41 18
HHM	iP	21 21 45
	eS	31 41
SLC	iP	21 20 59
WAS	eP	21 21 33
August 21		
ALQ	eP	21 37 12
	e	37 47
August 21		
EUR	eP	22 17 28
August 21		
EUR	eP	22 34 03
August 21		
ALQ	eP	23 52 37
August 22		
ALQ	eP	00 04 22
August 22		
GUA	eP	00 37 14
	eS	39 03
August 22		
ALQ	iP	01 26 37
COL	iP	01 30 29
EUR	eP	01 27 38
August 22		
ALQ	eP	04 45 34
BUT	eP	04 44 44
COL	eP	04 42 19
EUR	iP	04 44 47
GUA	eP	04 35 06
	e	35 29
	e	36 24
HHM	e(P)	04 44 33
August 22		
ALQ	e(P)	05 23 30
	eS	25 05
GCA	e(P)	05 32 53
August 22		
EUR	eP	05 42 12
	ipP	42 23

B 4297-4

Date and Station		Phase	(GCT)
			h m s
August 22			
BUT	e(P)		07 02 15
August 22			
COL	iP		09 07 48
EUR	iP		09 10 58
August 22			
COL	iP		09 24 45
EUR	eP		09 24 22
August 22			
BUT	iP		11 16 36
August 22			
ALQ	iP'		11 31 30
EUR	eP'		11 31 22
FGU	eP'		11 31 35
HHM	eP'		11 31 35
RCD	e(P')		11 31 41
August 22			
COL	eP		12 19 16
EUR	e(P)		12 18 42
	i		18 53
August 22			
COL	eP		14 45 18
EUR	eP		14 42 38
HHM	e(P)		14 43 36
August 22			
ALQ	eP		14 49 39
	eS		51 14
BCN	eP		14 47 54
	eS		48 27
August 22			
COL	iP		17 45 48
EUR	eP		17 46 41
August 22			
COL	iP		18 08 08
	iS		09 00
EUR	cP		18 13 38
August 22			
ALQ	eP		19 03 09
	e		03 18
August 22			
ALQ	eP		20 29 21
	e		29 24
August 22			
ALQ	iP		20 34 42
	e		35 14
August 22			
ALQ	iP		21 24 57
COL	iP		21 20 18
August 23			
EUR	e(P)		01 30 46
GCA	e(P)		01 30 11
	e		30 25
HHM	eP		01 31 18
August 23			
COL	eP		01 47 21
EUR	iP		01 49 57
August 23			
HHM	e(P)		02 16 59
	e		17 07
	e(S)		18 03
August 23			
ALQ	eP		04 07 24
	ePcP		08 04
COL	eP		04 02 28
EUR	eP		04 06 22
August 23			
EUR	eP		06 00 48
August 23			
FGU	eP		06 59 26
August 23			
EUR	eP		07 41 07
August 23			
COL	iP		12 40 44
EUR	iP		12 44 19
HHM	eP		12 43 46
RCD	eP		12 44 52
August 23			
ALQ	iP		12 53 55
	e(PcP)		56 01
COL	iP		12 47 16
	i		48 08
EUR	iP		12 52 47
FGU	eP		12 53 01
HHM	eP		12 51 46
RCD	eP		12 53 04
August 23			
COL	iP		15 40 59
EUR	eP		15 43 26
GUA	iP		15 35 07
	i		35 20
	iPP		35 42
HHM	eP		15 43 07
August 23			
COL	eP		15 48 02
August 23			
FGU	eP		16 54 55
HHM	eP		16 54 50
	e		55 03
	eS		55 60
August 23			
SIT	eP		19 18 11
	i		18 20
August 23			
ALQ	e(P)		19 29 37
COL	iP		19 29 46
	eS		39 30
EUR	eP		19 29 12
August 23			
ALQ	iP		19 32 53
	i(S)		35 12
BCN	eP		19 31 32
BOZ	iP		19 31 42
	i		31 53
	e(S)		33 27
	iL		34 32
BUT	iP		19 31 31
	iS		33 18
	iL		34 17
COL	iP		19 34 54
	i		35 07
CSC	eP		19 36 00
EUR	iP		19 30 55
	iL		33 43
FGU	iP		19 31 56
GCA	eP		19 31 54
HON	eP		19 36 20
	eS		41 47
	eL		43 47
HHM	eP		19 31 35
	iS		33 25
RCD	iP		19 32 50
SLC	iP		19 31 32
SJP	iP		19 38 40
	eS		46 20
THU	e(P)		19 38 45
TUC	eP		19 32 39
	eS		36 06
	eL		37 04
TUT	eP		19 32 39
WAS	eP		19 36 13
	e(S)		41 51
August 23			
ALQ	e(P)		20 27 51
	e		28 26
August 23			
ALQ	e(P)		20 55 20
	eS		55 35
August 23			
ALQ	eP'		21 11 45
	e		11 58
	i		12 17
COL	eP'		21 12 32
	i		12 40
EUR	eP'		21 11 43
	ePP		13 13
	ePKKP		21 46
HHM	eP'		21 11 52
August 23			
ALQ	iP		21 15 07
	eS		15 46
August 23			
ALQ	iP		21 22 14
	eS		22 37
August 23			
ALQ	eP		22 47 54
	eS		48 46
August 24			
ALQ	iP		00 26 13
	iS		26 25
August 24			
ALQ	iP		01 29 10
	i		29 42
COL	eP		01 34 24
EUR	eP		01 30 09
FGU	eP		01 30 09
TUT	eP		01 29 14
August 24			
COL	eP		01 51 32
EUR	eP		01 55 46
August 24			
EUR	eP		02 17 37

Date and Station		Phase (GCT)
		h m s
FGU	eP	02 16 52
August 24		
ALQ	iP	02 57 15
COL	iP	02 59 39
EUR	iP	02 58 06
FGU	eP	02 57 35
HHM	eP	02 58 02
August 24		
COL	eP	04 11 12
EUR	eP	04 11 38
August 24		
FGU	eP	04 36 08
	i	36 13
	eS	36 48
August 24		
TUT	e(P)	05 00 20
August 24		
ALQ	iP	06 19 03
	eS	19 29
EUR	eP	06 20 16
FGU	eP	06 19 56
August 24		
FGU	eP	06 32 20
	eS	32 54
August 24		
ALQ	iP	06 59 23
COL	iP	06 59 23
	ipP	07 01 29
EUR	iP	06 59 03
	ipP	07 01 05
GCA	eP	06 59 01
GUA	iP	06 55 16
	i	55 40
	ePP	57 18
	i(ScP)	59 30
TUC	iP	06 59 02
TUT	eP	06 59 02
August 24		
ALQ	eP	08 05 06
	e(S)	05 12
August 24		
EUR*	eP	08 33 51
August 24		
ALQ	iP	09 16 33
	i	17 03

Date and Station		Phase (GCT)
		h m s
BCN	eP	09 16 02
BOZ	eP	09 16 44
	eS	27 07
BUT	eP	09 16 39
	eS	26 59
COL	iP	09 16 39
	eS	26 56
	ePKKP	34 32
EUR	iP	09 16 09
FGU	eP	09 16 37
GCA	e(P)	09 16 18
	e	16 24
GUA	eP	09 13 18
	i	13 38
	i	13 54
	ePP	15 11
HON	eP	09 11 53
	eS	17 49
	eL	20 01
HHM	eP	09 16 45
KIP	iP	09 11 55
RCD	eP	09 17 08
SLC	e(P)	09 16 31
TUC	eP	09 16 08
	eL	38 31
TUT	eP	09 16 09
August 24		
FGU	eP	09 36 10
	eS	36 24
August 24		
BHP	iP	09 44 09
	iS	44 12
August 24		
COL	iP	12 10 44
August 24		
COL	iP	12 32 07
August 24		
ALQ	iP	13 25 53
	i	26 09
EUR	eP	13 26 48
FGU	eP	13 26 33
August 24		
COL	iP	14 39 22

Date and Station		Phase (GCT)
		h m s
August 24		
ALQ	iP	15 01 59
	i	02 29
COL	eP	15 06 43
EUR	iP	15 00 40
FGU	eP	15 01 40
GCA	eP	15 00 57
	i	01 05
HHM	e(P)	15 02 48
August 24		
EUR	i(P)	15 13 47
GCA	e(P)	15 14 06
	e	14 09
August 24		
ALQ	eP	17 02 00
	i	02 29
EUR	iP	17 00 42
FGU	e(P)	17 00 40
	i	01 31
	i	02 53
GCA	eP	17 00 58
	i	01 05
	i	01 52
HHM	eP	17 00 45
	e	01 07
	eS	01 42
TUT	e(P)	17 01 25
August 24		
ALQ	e(P)	17 10 45
	e	11 03
August 24		
COL	iP	18 26 39
EUR	eP	18 26 20
August 24		
EUR	eP	18 37 33
August 24		
COL	iP	22 26 42
August 24		
EUR	eP	23 01 45
August 24		
FGU	i(P)	23 14 38
August 25		
ALQ	eP	00 40 43
	i	40 57
COL	iP	00 36 33

Date and Station		Phase (GCT)
		h m s
EUR	iP	00 39 52
August 25		
ALQ	e(P)	01 01 26
	e	01 29
August 25		
COL	iP	02 13 39
	eL	16 52
EUR	eP	02 17 27
August 25		
ALQ	eP	04 18 59
	eS	19 24
August 25		
ALQ	iP	04 25 02
August 25		
ALQ	iP	04 32 21
	eS	32 53
August 25		
ALQ	eP	04 51 29
	iS	04 51 40
August 25		
ALQ	e(P)	04 56 27
COL	eP	04 50 37
EUR	eP	04 53 27
August 25		
ALQ	e(P)	05 08 14
August 25		
COL	eP	05 20 22
August 25		
ALQ	eP	05 59 33
	eS	06 00 41
August 25		
ALQ	iP	06 35 04
	e	35 13
August 25		
SJP	iP	06 50 43
August 25		
ALQ	iP	07 04 26
August 25		
ALQ	e(P)	07 11 09
	e	11 18
August 25		
ALQ	iP	08 43 41
	ipP	45 44
BOZ	eP	08 43 49
	e(pP)	46 08
	ePP	47 30
	iS	53 57
	esS	57 37

Date and Station		Phase	(GCT) h m s
BUT		iP	08 43 46
		ipP	45 54
		iPP	47 24
		iSKS	53 22
		iS	53 51
		isS	57 34
COL		iP	08 43 41
		ipP	45 47
		eSKS	53 18
		iS	53 38
		e(PKKP)	09 01 35
		eP'P'	09 30
EUR		iP	08 43 19
		ePKKP	09 00 54
		eP'P'	09 39
FGU		iP	08 43 13
		epP	45 21
GUA		iP	08 39 50
		ePcP	40 43
		i	43 03
		e(S)	45 41
		i	48 46
HON		iP	08 39 25
		i	40 04
		i(pP)	40 52
		i(sP)	42 08
		iS	45 36
		i(ScS)	48 25
		iL	51 26
HHM		eP	08 43 51
KIP		iP	08 39 25
		i	40 17
		i	40 23
		i(pP)	40 51
RCD		eP	08 44 08
SLC		iP	08 43 34
		epP	45 41
		ePP	47 07
		eS	53 30
SIT		eP	08 43 30
TUC		iP	08 43 19
		eS	52 54
		ePKKP	09 01 36
		eP'P'	09 42
TUT		iP	08 43 20
		i	46 23
		e(S)	53 04
		iPKKP	09 01 36
		iP'P'	09 36
August 25			
FGU		eP	09 23 26
		i	23 30
RCD		e(P)	09 23 43
		iL	24 07
August 25			
BCN		iP	09 43 13
		e	45 21
		eS	52 43
GCA		eP	09 43 28
August 25			
THU		eP	11 09 09
		e	16 36
August 25			
GUA		e(P)	13 44 35
		e	45 42
		i	46 35
August 25			
COL		iP	15 17 04
EUR		eP	15 19 55
August 25			
BOZ		eP	15 42 01
BUT		eP	15 41 55
EUR		eP	15 42 05
SLC		e(P)	15 41 14
August 25			
ALQ		eP	15 59 08
BUT		eP	15 58 13
COL		iP	15 55 31
EUR		eP	15 58 23
August 25			
COL		eP	16 51 31
August 25			
COL		eP	19 15 49
EUR		eP	19 18 40
August 25			
ALQ		iP	20 11 08
EUR		eP	20 11 22
FGU		eP	20 10 57
August 25			
FGU		eP	20 16 43
		eS	17 03
August 25			
ALQ		e(P)	20 29 33
August 25			
ALQ		eP	20 37 29
		i	37 36
		iS	38 14
August 25			
ALQ		eP	21 00 44
		eS	01 06
August 25			
ALQ		e(P)	21 45 39
		eS	45 55
August 26			
ALQ		e(P)	00 35 10
		eS	35 48
August 26			
COL		eP	00 57 41
EUR		e(P)	00 58 04
August 26			
FGU		eP	01 10 51
		eS	11 12
August 26			
COL		eP	01 43 59
EUR		eP	01 46 33
August 26			
ALQ		iP	07 01 45
		e	03 05
BCN		eP	07 01 17
BOZ		eP	07 00 56
BUT		eP	07 00 50
COL		iP	06 58 08
		i	58 21
EUR		iP	07 00 59
FGU		iP	07 01 16
GCA		eP	07 01 22
GUA		eP	06 53 37
		ePP	53 53
		i	54 52
		eS	57 28
		eL	58 16
HHM		iP	07 00 38
RCD		eP	07 01 23
SLC		eP	07 01 09
SIT		eP	06 59 01
TUC		eP	07 01 39
		eL	27 19
TUT		eP	07 01 39
August 26			
COL		eP	08 35 53
		e	43 09
EUR		eP	08 38 37
FGU		eP	08 38 54
August 26			
FGU		eP	10 38 30
		eS	39 03
August 26			
COL		iP	11 07 52
EUR		eP	11 11 30
August 26			
EUR		eP	11 55 10
FGU		eP	11 54 29
HHM		eP	11 54 36
		e(S)	55 34
RCD		e(P)	11 55 07
August 26			
BOZ		eP	13 22 00
		eL	22 23
BUT		eP	13 22 15
		iS	22 39
		iL	22 40
EUR		eP	13 23 20
FGU		eP	13 22 41
		i	22 55
HHM		eP	13 22 48
		e(S)	23 36
RCD		e(P)	13 23 22
August 26			
ALQ		eP	16 43 06
		i	43 10
BUT		e(P)	16 42 51
COL		eP	16 42 37
EUR		iP	16 43 25
August 26			
ALQ		e(P)	16 52 11
August 26			
ALQ		e(P)	18 01 44
August 26			
ALQ		iP	18 32 45
		eS	33 10
August 26			
ALQ		e(P)	20 49 53
		e	50 32

Date and Station		Phase (GCT)
August 26		h m s
ALQ	iP	22 47 58
BOZ	eP	22 47 10
BUT	eP	22 47 04
COL	eP	22 44 22
EUR	eP	22 47 13
FGU	eP	22 47 30
August 26		
TUC	e(P)	23 03 45
TUT	eP	23 03 40
	i	03 44
August 26		
ALQ	e(P')	23 49 10
	e	49 51
COL	eP	23 43 12
	ipP	43 25
	ePP	46 30
EUR	eP	23 44 34
	ePP	48 36
	ePKKP	24 00 33
GUA	e(P)	23 34 42
	eS	38 05
HON	iP	23 41 19
KIP	iP	23 41 18
SJP	eP'	23 50 22
SIT	eP.	23 43 46
August 27		
ALQ	eP	00 00 05
	iS	00 16
EUR	eP	00 00 34
August 27		
EUR	eP	00 04 16
FGU	eP	00 04 03
	i	04 05
	eS	04 39
August 27		
COL	eP	01 34 05
EUR	eP	01 37 45
August 27		
FGU	eP	02 08 42
	eS	09 01
August 27		
ALQ	iP	02 31 04
	e	31 31
	epP	32 06

Date and Station		Phase (GCT)
		h m s
BOZ	eP	02 30 10
BUT	iP	02 30 04
COL	iP	02 27 12
EUR	iP	02 30 18
FGU	iP	02 30 32
GCA	eP	02 30 40
HON	eP	02 28 18
HHM	iP	02 29 51
KIP	iP	02 28 18
SLC	eP	02 30 26
SIT	eP	02 28 10
TUC	eP	02 30 59
TUT	eP	02 31 00
	epP	32 05
August 27		
COL	eP	05 00 30
August 27		
COL	iP	05 14 39
August 27		
COL	iP	05 38 16
August 27		
COL	iP	06 10 50
EUR	iP	06 11 45
August 27		
ALQ	e(P)	07 48 33
	e	48 52
August 27		
COL	eP	09 08 29
EUR	eP	09 11 40
August 27		
ALQ	iP	10 01 31
COL	eP	09 57 19
EUR	eP	10 00 39
HHM	eP	10 00 10
August 27		
ALQ	iP	10 09 26
August 27		
COL	eP	14 38 39
August 27		
COL	eP	15 28 26

Date and Station		Phase (GCT)
		h m s
EUR	eP	15 31 02
HHM	e(P)	15 30 39
August 27		
BOZ	eP	16 13 45
August 27		
ALQ	iP	16 32 28
	ipP	32 37
COL	iP	16 28 38
	i	28 51
EUR	iP	16 31 40
	ipP	31 50
FGU	eP	16 31 38
HHM	iP	16 31 16
	epP	31 25
KIP	iP	16 29 31
August 27		
ALQ	iP	17 50 37
	iS	51 17
August 27		
COL	iP	19 24 06
	epP	24 58
August 27		
GCA	eP	20 57 49
August 27		
ALQ	e(P)	22 18 29
	e	19 07
August 27		
ALQ	eP	22 26 15
COL	iP	22 25 36
EUR	iP	22 25 56
August 27		
ALQ	eP	23 00 00
	e	00 23
August 27		
COL	eP	23 41 11
August 27		
COL	iP	23 43 11
EUR	iP	23 43 08
August 27		
COL	eP	23 51 17
EUR	eP	23 54 09
August 27		
ALQ	i(P)	23 58 49
	e	59 15
COL	eP	23 59 27

Date and Station		Phase (GCT)
August 28		h m s
ALQ	e(P)	00 25 46
	e	26 08
COL	eP	00 22 30
EUR	eP	00 25 21
August 28		
COL	eP	00 27 32
August 28		
ALQ	i(P)	00 42 17
BOZ	e(P)	00 41 22
BUT	e(P)	00 41 20
COL	eP	00 38 36
EUR	iP	00 41 27
HHM	e(P)	00 41 05
SLC	e(P)	00 41 59
August 28		
ALQ	iP	00 52 17
	e	52 41
BOZ	e(P)	00 52 28
BUT	e(P)	00 52 25
COL	iP	00 52 27
EUR	iP	00 51 54
August 28		
COL	eP	02 58 49
EUR	eP	03 01 42
FGU	eP	03 01 38
HHM	eP	03 01 19
August 28		
FGU	eP	05 04 05
	i	04 09
August 28		
COL	eP	05 50 50
EUR	eP	05 53 40
August 28		
COL	eP	06 33 14
August 28		
COL	eP	06 40 10
EUR	e(P)	06 42 58
August 28		
COL	eP	07 42 10
EUR	eP	07 45 37

8-4297-4+

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

Date and Station		Phase (GCT)
		h m s
FGU	eP	04 32 00
	iS	32 39
August 29		
TUC	eP	05 32 38
August 29		
ALQ	iP	05 51 12
	iS	51 28
GCA	e(P)	05 51 07
August 29		
COL	eP	07 08 20
EUR	eP	07 04 45
FGU	eP	07 04 54
August 29		
ALQ	iP	07 49 11
	e	49 22
BUT	i(P)	07 50 16
EUR	eP	07 49 59
TUC	eP	07 49 12
TUT	eP	07 49 13
August 29		
BCN	eP	08 05 09
August 29		
ALQ	iP	08 42 31
	e	42 53
BCN	e(P)	08 43 09
COL	eP	08 43 52
EUR	eP	08 42 44
FGU	eP	08 44 08
August 29		
ALQ	iP	08 54 32
	i	54 52
BOZ	e(P)	08 56 25
BUT	e(P)	08 56 29
COL	eP	09 00 06
EUR	iP	08 55 47
FGU	eP	08 56 10
GCA	eP	08 55 07
RCD	eP	08 56 05
TUC	eP	08 54 13
TUT	eP	08 54 13

Date and Station		Phase (GCT)
		h m s
August 29		
ALQ	iP'	09 31 42
	i	32 17
BCN	iP'	09 31 40
EUR	eP'	09 31 26
FGU	e(P')	09 31 57
GCA	eP'	09 31 37
TUC	iP'	09 31 51
TUT	iP'	09 31 51
August 29		
ALQ	iP	10 21 17
	e	21 37
BHP	iP	10 14 43
	iS	15 07
COL	eP	10 25 47
EUR	eP	10 22 30
RCD	eP	10 22 01
SJP	eP	10 18 21
August 29		
COL	eP	11 42 35
August 29		
ALQ	iP	12 32 22
	ipP	32 58
COL	iP	12 36 07
EUR	eP	12 33 22
FGU	eP	12 33 35
TUC	eP	12 32 27
TUT	iP	12 32 27
August 29		
COL	eP	15 23 35
EUR	eP	15 25 55
August 29		
ALQ	eP	15 49 39
	e(S)	49 48
August 29		
ALQ	eP	16 26 29
	e	26 57
August 29		
TUC	iP	16 28 28
	e	29 10
	iS	37 20

Date and Station		Phase (GCT)
		h m s
August 29		
COL	eP	17 48 15
EUR	eP	17 51 09
HHM	eP	17 50 44
August 29		
ALQ	eP	18 21 06
August 29		
COL	eP	18 41 59
EUR	eP	18 44 50
August 29		
ALQ	e(P)	18 55 05
August 29		
HHM	eP	19 48 15
August 29		
COL	iP	19 52 49
August 29		
FGU	eP	20 10 08
August 29		
ALQ	iP	20 15 43
August 29		
ALQ	iP	20 33 12
BOZ	e(P)	20 32 23
BUT	e(P)	20 32 17
COL	eP	20 29 32
EUR	eP	20 32 25
HHM	eP	20 32 02
August 29		
ALQ	e(P)	21 00 43
	e(S)	01 18
August 29		
ALQ	e(P)	21 08 47
	e(S)	09 14
August 29		
SIT	e(P)	21 49 54
August 29		
ALQ	e(P)	22 14 38
	e	14 52
EUR	eP	22 15 43
HHM	eP	22 16 15
August 29		
ALQ	e(P)	22 23 12
	eS	23 28
August 29		
ALQ	iP	22 43 35
	eS	44 32

Date and Station		Phase (GCT)
		h m s
August 29		
ALQ	iP	22 49 43
BCN	iP	22 49 12
BOZ	eP	22 48 54
BUT	iP	22 48 48
	i	48 53
COL	iP	22 46 06
	eS	53 31
EUR	iP	22 48 58
FGU	eP	22 49 14
GCA	eP	22 49 20
HON	iS	22 54 26
	e	56 14
	iL	59 54
HHM	iP	22 48 35
KIP	eP	22 46 45
SLC	eP	22 49 07
SIT	e(P)	22 46 58
TUC	eP	22 49 19
	eL	23 16 37
August 29		
EUR	eP	23 41 41
FGU	eP	23 41 26
	eS	41 58
August 29		
HHM	eP	23 54 35
August 30		
ALQ	e(P)	00 01 43
August 30		
ALQ	eP	00 07 24
	eS	08 03
August 30		
ALQ	e(P)	00 41 56
COL	iP	00 44 30
August 30		
ALQ	e(P)	00 57 26
	eS	58 18
August 30		
HHM	eP	01 10 59
	i	11 02
	eS	11 29
August 30		
ALQ	eP	02 25 09

Date and Station		Phase (GCT)
August 30		h m s
ALQ	iP	06 32 38
	eS	33 28
EUR	eP	06 33 32
August 30		
ALQ	eP	06 52 44
GCA	eP	06 52 40
August 30		
HHM	eP	07 31 06
	eS	31 27
August 30		
COL	iP	07 57 27
EUR	iP	07 59 10
HHM	eP	07 58 26
August 30		
FGU	e(P)	10 33 29
	e	34 07
August 30		
BUT	e(P)	11 33 40
COL	eP	11 30 58
EUR	eP	11 33 49
August 30		
BOZ	eP	11 47 09
BUT	eP	11 47 04
	e	49 33
COL	eP	11 44 21
	i	44 27
EUR	eP	11 47 13
FGU	eP	11 47 31
HHM	eP	11 46 51
August 30		
ALQ	iP	11 48 22
	e	48 35
	e	49 02
COL	e(P')	11 53 25
EUR	eP	11 49 02
August 30		
COL	eP	12 21 38
August 30		
COL	eP	13 18 26
EUR	eP	13 21 17
August 30		
CSC	eP	13 25 54
	eS	30 21

Date and Station		Phase (GCT)
August 30		h m s
ALQ	iP	13 37 24
	iL	39 10
BCN	iP	13 37 06
	iL	38 44
BOZ	eP	13 36 27
	i	36 36
BUT	eP	13 36 34
COL	iP	13 41 45
	iS	46 42
	eL	51 40
	i	53 24
	e	55 22
FGU	iP	13 36 01
GCA	eP	13 36 43
	i	36 44
HON	eP	13 43 38
	eL	53 34
	e	55 22
	i	57 40
	e	59 20
	e	14 08 12
HHM	eP	13 37 06
	i	37 17
	iL	38 37
RCD	iP	13 37 06
SLC	iP	13 35 48
SJP	e(P)	13 43 40
	ePP	45 33
SIT	eP	13 40 15
	eL	44 30
	e	46 26
TUC	iP	13 37 51
	iL	40 02
TUT	eP	13 37 49
UKI	eP	13 37 46
	eL	40 18
WAS	iP	13 41 03
	eL	45 54
	e	46 53
August 30		
FGU	iP	13 54 14
August 30		
FGU	iP	14 00 51
	eS	01 15
August 30		
FGU	iP	14 02 40
	iS	03 04

Date and Station		Phase (GCT)
August 30		h m s
FGU	iP	14 04 00
August 30		
FGU	iP	14 05 48
	iS	06 13
August 30		
FGU	iP	14 08 17
	iS	08 43
August 30		
FGU	iP	14 17 58
	iS	18 23
August 30		
FGU	iP	14 21 34
	iS	21 58
August 30		
FGU	iP	14 23 29
	iS	23 53
August 30		
FGU	iP	14 46 40
	i(S)	47 05
August 30		
FGU	iP	14 50 30
August 30		
FGU	iP	15 08 04
	iS	08 28
August 30		
ALQ	e(P)	15 23 23
August 30		
FGU	iP	16 01 14
	i(S)	01 41
August 30		
ALQ	eP	16 32 05
	e	32 10
FGU	iP	16 31 52
	iS	32 16
August 30		
ALQ	iP	17 30 28
	e	30 46
	e	31 11
BCN	iP	17 30 02
BOZ	eP	17 30 40
BUT	e(P)	17 30 37
COL	iP	17 30 41
EUR	eP	17 30 09
FGU	e(P)	17 31 03
GCA	eP	17 30 16

Date and Station		Phase (GCT)
		h m s
HON	eP	17 26 08
	e	28 34
	iS	32 48
	eSS	36 10
	eL	38 20
HHM	eP	17 30 38
KIP	iP	17 26 08
TUC	eP	17 30 05
	eL	54 37
UKI	eP	17 29 44
August 30		
FGU	eP	18 21 25
	eS	21 51
August 30		
ALQ	e(P)	18 31 00
August 30		
ALQ	e(P)	19 06 06
August 30		
ALQ	iP'	19 29 00
	i	29 23
August 30		
FGU	eP	19 48 49
	eS	49 15
August 30		
ALQ	iP	20 02 52
August 30		
ALQ	e(P)	20 19 16
	e	21 32
August 30		
COL	iP	20 28 23
August 30		
HHM	e(P)	21 30 52
August 30		
GUA	eP	21 32 07
August 30		
FGU	iP	22 52 16
	i(S)	52 40
GCA	e(P)	22 52 32
August 30		
FGU	iP	23 02 37
	iS	04 02
August 31		
ALQ	e(P)	00 37 21
	eS	37 37
August 31		
ALQ	e(P)	01 57 11
	eS	57 41

Date and Station		Phase (GCT)
		h m s
August 31		
FGU	iP	02 08 45
	iS	10
August 31		
FGU	eP	02 46 20
	iS	46 46
August 31		
EUR	eP	03 17 35
August 31		
EUR	eP	05 29 19
August 31		
EUR	eP	06 44 20
August 31		
EUR	eP	08 22 03
August 31		
ALQ	i(P)	09 12 28
EUR	eP	09 12 03
FGU	e(P)	09 13 00
HON	iS	09 14 18
	eL	17 09
August 31		
FGU	eP	09 28 06
	eS	28 31
August 31		
ALQ	e(P)	09 51 11
August 31		
ALQ	e(P)	10 36 05
FGU	iP	10 34 37
	i(S)	34 59
SLC	eP	10 33 54
	iS	34 08
	iL	34 09
August 31		
ALQ	eP	10 37 40
August 31		
ALQ	eP	10 44 45
August 31		
ALQ	eP	10 45 57
BOZ	eP	10 46 06
BUT	e(P)	10 59
	ePP	49 11
COL	eP	10 45 52
EUR	iP	10 45 30
FGU	e(P)	10 02
	e	46 31
GCA	e(P)	10 45 42

Date and Station		Phase (GCT)
		h m s
HON	eP	10 41 16
	eS	47 39
	e	48 17
	eL	50 10
HHM	e(P)	10 45 59
SLC	e(P)	10 45 52
TUC	eP	10 45 33
	i	45 36
August 31		
COL	iP	13 25 42
August 31		
FGU	eP	14 35 07
	eS	35 33
August 31		
COL	eP	14 50 01
August 31		
COL	eP	16 31 58
EUR	iP	16 35 43
HON	e(S)	16 40 56
	eL	46 12
August 31		
ALQ	iP	17 05 29
	e(pP)	05 44
	eS	06 00
August 31		
BCN	eP C	17 11 21
	e	11 37
	ePP	13 06
BOZ	eP C	17 10 53
	eS	17 24
	eL	20 54
BUT	iP C	17 10 45
	i	11 01
	i	11 44
	i	12 08
	i(PP)	12 25
	iPPP	13 09
	i	13 55
	eScP	16 21
	iS	17 10
	iScS	20 54
COL	eP D	17 07 29
	iS	11 28
CSC	iP C	17 13 50
	eS	22 54
EUR	iP D	17 10 59
FGU	iP C	17 11 23
GCA	eP C	17 11 32

Date and Station		Phase (GCT)
		h m s
HON	iP D	17 09 31
	i	09 41
	ePP	10 32
	iS	15 00
	eL	16 54
HHM	eP D	17 10 27
	i	10 29
KIP	iP	17 09 29
	eT	45 17
RCD	iP C	17 11 36
SLC	iP C	17 11 12
	i	11 24
	e	11 58
	e	12 13
	ePcP	12 35
	ePP	13 18
SJP	eP D	17 15 41
	eS	26 32
TUC	iP	17 11 59
	e(S)	19 29
	eL	23 07
UKI	eP	17 10 26
WAS	eP D	17 13 27
August 31		
BCN	iP	18 04 46
BOZ	eP	18 04 17
BUT	iP	18 04 09
COL	eP	18 00 54
CSC	eP	18 07 14
EUR	iP	18 04 23
FGU	eP	18 04 47
GCA	eP	18 04 55
HHM	eP	18 03 51
RCD	eP	18 04 59
SLC	eP	18 04 37
SJP	iP	18 09 05
	i	09 22
August 31		
FGU	iP	19 04 16
	iS	04 50
August 31		
FGU	eP	19 58 25
	eS	58 53
August 31		
COL	eP	20 07 26

Date and Station		Phase (GCT)
		h m s
August 31		
COL	iP	21 28 01
EUR	iP	21 31 30

B-4297-4

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
August	
BCN	
8	15.5
	15.6
10	02.5
13	22.0
14	22.6
	23.0
17	15.3
18	8.0
19	17.5
20	10.6
	14.1
	14.2
27	16.5
BOZ	
9	8.2
10	21.2
11	02.0
12	19.4
23	16.9
24	02.3
	15.1
	17.0
26	11.9
28	1.1
BUT	
2	16.2
	18.6
12	19.4
24	02.3
	04.6
26	11.9
COL	
3	05.6
	05.7
5	17.2
6	18.6
9	01.9
10	15.9
11	00.4
14	06.7
EUR	
4	06.7
5	04.2
	16.0
7	22.4
8	17.0
10	00.9
11	11.3
15	01.9
	15.6
17	02.7
	11.1
	14.3
20	06.9
21	00.3
	03.6
22	05.4
	07.0
EUR	
22	14.8
	21.7
26	11.9
	13.4
27	01.4
31	03.5
	10.6
FGU	
1	19.0
3	14.2
7	19.0
10	23.9
18	23.3
21	00.3
	01.6
23	23.6
30	16.1
31	00.5
	08.5
	21.3
GCA	
4	10.9
5	23.7
8	09.9
13	02.2
19	17.6
	18.1
	18.1
	18.2
	18.4
24	20.3
SLC	
19	24.0
24	7.0
	15.0
	15.2
	17.0
	23.1
	23.2
26	22.5
	22.7
	22.8
27	00.1
29	23.7
30	13.9
	14.0
	14.1
	14.1
	14.4
	14.8
	22.8
SJP	
2	05.8
6	07.1
	07.2
10	20.9
20	06.0
23	23.9
28	02.0
TUC	
20	10.6
	13.4
21	06.2
22	05.4
24	05.0

B 4297-4