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SEISMOLOGICAL BULLETIN

November, 1960

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U. S. DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1960

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

**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, Nebr. (LIN)
Nebraska Wesleyan University
**Philadelphia, Pa. (PHI)
The Franklin Institute
**Rapid City, S. D. (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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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 earthquake 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 electionic computer. The epicenters quoted in this Bulletin are those previously reported on the Preliminary Determination of epicenter cards with some refinement and minor additions.

All seismograms are on file in the Coast and Geodetic Survey, 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.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Nov.	h m s	°	°	
1	06 15 29.4	11.2 S.	12.7 W.	Ascension Island region. h about 35 km. Mag. 5 (Pal).
1	08 45 59.3	38.5 S.	75.1 W.	Near coast of Chile. Slight damage at Lebu, Concepcion, and Valdivia. h about 55 km. Mag. 7¼-7½.
1	10 23 57.2	5.5 S.	102.4 E.	Near south coast of Sumatra. h about 43 km.
1	12 29 31.6	38.7 S.	75.0 W.	Near coast of Chile. Felt. h about 64 km. Mag. 5-5¼ (Pal).
1	16 13 56.2	41.1 N.	21.0 E.	Greece-Yugoslavia border. Felt at Florina, Greece. h about 33 km.
1	19 06 22.7	50.3 N.	153.9 E.	Near west coast of Kamchatka. h about 162 km.
1	22 26 52.7	45.3 N.	111.2 W.	Hebgen Lake region, Montana. Felt. h about 38 km.
1	23 58 09.2	30.4 S.	177.7 W.	Kermadec Islands. h about 43 km.
2	15 29 51.6	58.2 N.	153.2 W.	Kodiak Island, Alaska. h about 104 km.
2	16 31 53.2	23.3 N.	93.8 E.	Burma-East Pakistan border. h about 124 km.
2	17 14 54.0	11.2 S.	164.8 E.	Santa Cruz Islands. h about 80 km. Mag. 6½-6¾.
2	18 09 48.8	45.0 S.	80.2 E.	South Indian Ocean. h about 23 km.
2	19 44 46.1	39.1 N.	71.9 E.	Tadzhik, S.S.R. h about 54 km.
3	02 42 53.7	22.1 S.	175.9 W.	Tonga Islands. h about 31 km. Mag. 5½ (Pal).
3	17 30 29.9	17.0 S.	176.5 W.	Fiji Islands region. h about 25 km.
3	22 02 19.2	14.4 S.	71.6 W.	Southern Peru. h about 55 km.
4	11 40 11.1	20.6 S.	178.4 W.	Fiji Islands region. h about 638 km.
4	14 18 09.0	00.9 S.	126.7 E.	Spice Islands region. h about 31 km.
5	00 51 36.7	30.7 N.	130.9 E.	Kyushu, Japan. h about 74 km.
5	20 20 53.7	39.4 N.	20.5 E.	Northern Greece. Damage in Epirus region. h about 49 km. Mag. 5.0 (Pal).
6	04 38 16.7	53.2 N.	159.8 E.	Near east coast of Kamchatka. h about 32 km. Mag. 6¼.
6	06 14 53.4	31.1 S.	177.7 W.	Kermadec Islands. h about 69 km. Mag. 6½.
6	06 40 12**			Near Coast of Luzon, P. I.
6	22 10 06.4	52.9 N.	168.0 W.	Fox Islands, Aleutian Islands. h about 43 km. Mag. 5-5¼ (Berk).
7	13 23 06.1	32.5 N.	131.6 E.	Kyushu, Japan. h about 25 km.
7	16 26 43.0	11.3 S.	162.7 E.	Solomon Islands region. h about 25 km.
7	22 18 27.4	40.3 S.	73.5 W.	Near coast of Chile. h about 67 km.
7	23 56 32**			Kermadec Islands.
8	00 20 17.5	41.3 N.	105.5 E.	China-Mongolia border. h about 51 km.
8	00 33 18**			Kermadec Islands.
8	02 43 38**			Kermadec Islands
8	04 28 08.7	27.4 N.	44.9 W.	North Atlantic Ocean. h about 25 km. Mag. 4½ (Pal).
8	05 22 13.3	44.9 N.	149.7 E.	Kurile Islands. h about 57 km. Mag. 5.0 (Pal).

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Nov.	h m s	°	°	
8	05 27 22.1	45.0 N.	149.7 E.	Kurile Islands. h about 30 km.
8	10 59 45.6	31.2 S.	177.6 W.	Kermadec Islands. h about 39 km.
8	11 36 27.2	45.1 N.	125.2 W.	Near Coast of Oregon. Felt. h about 44 km. Mag. 4¾ -5 (Pal).
8	12 33 58.0	28.4 N.	139.5 E.	Bonin Islands region. h about 23 km.
8	13 36 12.9	56.2 N.	158.8 W.	Alaska Peninsula. h about 29 km.
8	19 47 52.6	18.5 S.	168.0 E.	New Hebrides Islands. h about 62 km.
8	20 28 13.2	3.1 S.	139.5 E.	Near north coast of New Guinea. h about 61 km.
9	01 17 36.8	21.6 S.	67.5 W.	Near Chile-Bolivia border. h about 131 km.
9	03 17 58.5	60.9 S.	24.8 W.	Sandwich Islands. h about 37 km. Mag. 6¼-6½ (Pal).
9	10 43 40.8	32.8 N.	103.4 E.	Szechwan Province, China. h about 31 km. Mag. 6¼-6½ (Pal).
9	19 32 39.0	30.9 S.	177.1 W.	Kermadec Islands. h about 68 km.
9	20 06 16.2	23.4 S.	70.6 W.	Near coast of Chile. Felt at Antofagasta. h about 52 km. Mag. 5½-5¾ (Pal).
10	01 33 43.8	26.4 N.	87.5 W.	Gulf of Mexico. h about 21 km.
10	01 54 56.6	36.2 N.	70.8 E.	Hindu Kush. h about 193 km.
10	05 31 30.1	30.4 N.	40.4 W.	North Atlantic Ocean. h about 28 km. Mag. 5 (Pal).
10	14 44 48.8	2.7 S.	139.3 E.	Near north coast of New Guinea. h about 39 km. Mag. 6¾.
10	16 30 06.8	22.4 S.	172.1 E.	Loyalty Islands region. h about 50 km.
11	01 08 17.3	10.2 S.	119.1 E.	Soemba Island region. h about 25 km.
11	02 53 38.8	17.4 N.	95.7 W.	Southern Mexico. Felt at Coatsacoalcos. h about 82 km.
11	05 31 31.9	39.3 N.	20.8 E.	Northern Greece. Damage in Epirus region. h about 43 km.
11	06 14 42**			Fiji Islands region.
11	06 53 27.0	16.1 S.	71.9 W.	Southern Peru. Slight damage at Arequipa. h about 114 km.
11	13 45 14.3	55.0 N.	161.7 E.	Near east coast of Kamchatka. h about 28 km.
11	22 22 18.2	6.8 N.	94.4 E.	Nicobar Islands. h about 31 km.
11	22 23 44.8	23.3 S.	70.7 W.	Near coast of Chile. Felt at Antofagasta. h about 33 km.
11	22 42 36.0	53.4 N.	159.6 E.	Near east coast of Kamchatka. h about 36 km.
12	06 21 35.8	17.4 S.	178.9 W.	Fiji Islands region. h about 576 km.
12	07 56 21.6	43.4 S.	73.7 W.	Near coast of Chile. h about 60 km.
12	10 53 37.9	6.8 S.	156.3 E.	Solomon Islands region. h about 179 km.
12	18 37 08.1	46.6 N.	149.3 E.	Kurile Islands. h about 134 km.
13	06 37 06.2	1.4 N.	127.3 E.	Molucca Passage. h about 60 km. Mag. 5½ (Pal).
13	07 10 05**			Southern Peru. Felt at Arequipa.
13	09 20 32.3	51.4 N.	168.8 W.	Fox Islands, Aleutian Islands. h about 32 km. Mag. 7.
13	12 25 40.2	51.9 N.	168.5 W.	Fox Islands, Aleutian Islands. h about 37 km.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Nov.	h m s	°	°	
13	13 24 26.4	51.4 N.	168.8 W.	Fox Islands, Aleutian Islands. h about 26 km.
13	13 28 11.5	51.8 N.	168.1 W.	Fox Islands, Aleutian Islands. h about 50 km.
13	13 52 28.9	51.5 N.	168.6 W.	Fox Islands, Aleutian Islands. h about 46 km.
13	14 29 21.1	52.1 N.	167.8 W.	Fox Islands, Aleutian Islands. h about 46 km.
13	15 28 03**			Fox Islands, Aleutian Islands.
13	17 19 18.0	51.6 N.	167.9 W.	Fox Islands, Aleutian Islands. h about 30 km.
13	20 45 11.9	39.9 N.	30.0 W.	Azores. h about 23 km.
14	02 08 05.5	53.7 S.	140.7 E.	Antarctic Ocean, south of Australia. h about 21 km.
14	04 17 08.1	53.6 S.	140.5 E.	Antarctic Ocean, south of Australia. h about 47 km.
14	12 07 44.4	4.2 S.	142.9 E.	Near north coast of New Guinea. h about 70 km.
14	15 55 57.2	24.5 N.	96.2 E.	Burma. h about 58 km.
14	17 53 24.6	20.6 S.	177.7 W.	Fiji Islands region. h about 536 km.
14	19 59 35.2	14.9 N.	92.8 W.	Near coast of Chiapas, Mexico. h about 114 km. Mag. 5-5¼ (Pal).
14	20 10 31.2	37.2 N.	4.8 W.	Seville Province, Spain. Felt. h about 44 km.
14	23 02 25.5	6.9 N.	73.2 W.	Colombia. h about 190 km.
15	02 18 12.8	18.6 N.	68.5 W.	Mona Passage. h about 157 km.
15	02 29 04**			Santa Cruz Islands region.
15	06 23 27.5	62.7 S.	161.7 W.	Antarctic Ocean, southeast of New Zealand. h about 46 km. Mag. 5½-5¾ (Pal).
15	09 05 59.1	23.4 N.	94.3 E.	Near Burma-India border. h about 103 km.
15	21 40 14.5	35.4 S.	178.2 E.	Off coast of North Island, New Zealand. h about 71 km.
16	01 23 11.1	23.9 S.	179.3 E.	South of Fiji Islands region. h about 552 km.
16	15 38 21.7	10.4 N.	74.1 W.	Near coast of Columbia. Felt at Barranquila and Cartagena. h about 55 km. Mag. 4½-4¾ (Pal).
16	22 59 47.6	38.2 N.	89.5 E.	Sinkiang Province, China. h about 24 km.
17	01 28 43.0	38.4 S.	73.1 W.	Near coast of Chile. h about 52 km.
17	04 08 03.1	31.0 S.	177.7 W.	Kermadec Islands. h about 71 km.
17	05 16 09.1	43.7 S.	75.4 W.	Near coast of Chile. h about 64 km.
17	19 46 50.6	52.6 N.	170.1 W.	Fox Islands, Aleutian Islands. h about 46 km.
17	21 22 45.6	56.4 S.	122.6 W.	South Pacific Ocean. h about 38 km.
18	03 38 43.6	51.6 N.	151.0 E.	Sea of Okhotsk. h about 498 km.
18	06 03 35.0	35.2 N.	28.6 E.	East of Crete, Mediterranean Sea. h about 24 km.
18	11 03 15.1	39.5 N.	120.5 W.	Northern California. Felt in Plumas County. h about 15 km. Mag. 4.2 (Berk).
18	12 42 39.3	22.6 S.	68.5 W.	Northern Chile. Felt at Antofagasta. h about 84 km.
18	15 22 55.3	6.3 S.	130.0 E.	Banda Sea. h about 68 km.

Date 1960	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth and Remarks
Nov.	h m s	°	°	
18	18 51 05.1	14.8 N.	91.0 W.	Guatemala. h about 168 km.
19	04 48 51.6	14.7 S.	66.2 W.	Bolivia. h about 251 km.
19	07 04 53.6	17.8 S.	178.9 W.	Fiji Islands region. h about 545 km.
19	12 16 44.5	8.7 N.	137.6 E.	Caroline Islands region. h about 27 km.
20	03 52 45.2	26.2 N.	128.7 E.	Ryukyu Islands, h about 23 km.
20	10 49 13.4	8.4 S.	77.6 W.	Northern Peru. h about 55 km.
20	22 01 56.4	6.8 S.	81.0 W.	Near coast of Peru. About 11 killed and extensive property damage from seismic sea wave at Pimentel, Eten, and Santa Rosa. h about 55 km. Mag. 6¾.
21	04 21 48.6	6.5 S.	80.7 W.	Near coast of Peru. Felt. h about 73 km.
21	04 29 05.3	3.4 S.	152.2 E.	New Ireland region. h about 369 km.
21	18 44 02.3	54.4 N.	159.9 E.	Near east coast of Kamchatka. h about 70 km.
22	02 32 21.8	7.1 S.	80.8 W.	Near coast of Peru. Felt. h about 51 km.
22	03 03 02.7	8.3 N.	38.4 W.	Atlantic Ocean. h about 33 km.
22	03 31 58.8	19.3 S.	173.6 W.	Tonga Islands. h about 66 km. Mag. 5½-5¾ (Pal).
22	03 45 20.8	19.8 S.	172.6 W.	Tonga Islands. h about 70 km.
22	06 21 45.0	36.1 S.	52.3 E.	Indian Ocean, north of Crozet Islands. h about 21 km. Mag. 6¾.
22	07 09 14.8	53.2 N.	159.4 E.	Near east coast of Kamchatka. h about 28 km.
22	12 28 54.8	40.3 S.	73.9 W.	Near coast of Chile. Felt at Valdivia. h about 49 km. Mag. 6½.
22	17 51 36**			Nicobar Islands region.
23	01 24 30.1	5.0 S.	153.3 E.	New Britain region. Felt at Rabaul. h about 79 km.
23	04 11 27.0	4.7 S.	154.2 E.	New Britain region. h about 431 km.
23	09 42 47.3	10.3 S.	151.7 E.	D'Entrecasteaux Islands. h about 34 km.
23	14 12 21.1	24.4 S.	176.1 W.	South of Tonga Islands. h about 28 km. Mag. 6¾.
23	16 52 24.2	4.7 N.	125.8 E.	Near coast of Mindanao, P. I. h about 213 km.
23	17 28 57.6	24.2 S.	176.4 W.	South of Tonga Islands. h about 69 km.
23	17 56 37.2	24.4 S.	176.2 W.	South of Tonga Islands. h about 44 km.
23	20 11 03.2	24.4 S.	176.0 W.	South of Tonga Islands. h about 71 km.
23	21 14 29.2	22.2 S.	179.5 W.	South of Fiji Islands. h about 631 km.
23	23 15 38.4	13.2 N.	120.2 E.	Near coast of Mindoro, P. I. h about 89 km.
24	04 50 15.8	4.6 S.	153.0 E.	New Britain region. Felt. h about 87 km. Mag. 6-6¼.
24	06 52 41.1	24.4 S.	176.1 W.	South of Tonga Islands. h about 23 km. Mag. 7.
24	08 16 43.7	24.6 S.	176.3 W.	South of Tonga Islands. h about 25 km.
24	08 26 19.0	24.4 S.	176.2 W.	South of Tonga Islands. h about 63 km.
24	09 28 18.4	24.2 S.	176.6 W.	South of Tonga Islands. h about 67 km.

Date 1960	Origin Time G. C. T.	Lat. °	Long. °	Region, Focal Depth and Remarks
Nov. 24	18 25 46.4	58.0 N.	155.9 W.	Alaska Peninsula. h about 46 km.
25	03 27 59.0	7.3 S.	81.4 W.	Near coast of Peru. h about 27 km.
25	21 54 12.1	38.3 N.	140.7 E.	Honshu, Japan. Felt in northeastern Honshu. h about 105 km.
26	07 37 03.3	36.7 N.	140.9 E.	Near coast of Honshu, Japan. Felt at Tokyo. h about 77 km.
26	12 19 01.2	10.8 S.	162.2 E.	Solomon Islands region. h about 51 km.
26	16 45 43.4	51.9 N.	167.9 W.	Fox Islands, Aleutian Islands. h about 76 km.
26	18 20 20.6	53.8 S.	141.0 E.	Antarctic Ocean, South of Australia. h about 19 km.
26	21 35 36.6	24.5 S.	175.5 W.	South of Tonga Islands. h about 20 km.
27	01 40 24.1	7.7 S.	81.5 W.	Near coast of northern Peru. h about 25 km.
27	12 00 26.3	63.1 N.	151.2 W.	Alaska. h about 140 km.
27	13 10 06.7	5.5 S.	146.3 E.	Near north coast of New Guinea. h about 44 km.
27	15 17 14.2	42.9 N.	143.3 E.	Near coast of Hokkaido, Japan. h about 80 km.
27	20 37 24.7	3.4 S.	29.5 E.	Congo Republic. h about 47 km.
27	21 24 30.7	37.2 S.	73.4 W.	Near coast of Chile. h about 61 km. Mag. 5¼-5½ (Pal).
28	05 12 50.1	36.4 N.	31.1 E.	Near coast of Turkey. h about 71 km.
28	06 16 58.2	6.7 S.	128.4 E.	Banda Sea. h about 60 km.
28	19 47 19.5	47.5 N.	27.5 W.	Azores. h about 38 km.
29	07 14 26.0	25.1 S.	180.0	South of Fiji Islands. h about 620 km.
29	09 31 59.5	44.1 S.	76.0 W.	Near coast of southern Chile. h about 63 km. Mag. 5¼ (Pal).
29	14 06 48.8	26.7 N.	126.3 E.	Ryukyu Islands. h about 24 km.
29	19 17 08**			Peru. Felt at Arequipa.

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

Date and Station		Phase (GCT)
		h m s
Nov. 2		
FGU	iP	05 23 17
Nov. 2		
COL	eP	05 44 10
	i	44 29
EUR	eP	05 44 45
Nov. 2		
COL	iP	05 53 58
EUR	eP	05 58 42
Nov. 2		
FGU	eP	05 57 08
	i	57 09
Nov. 2		
COL	e(P)	06 24 02
Nov. 2		
BOZ	eP	08 01 55
FGU	eP	08 02 57
Nov. 2		
TUC	e(P)	09 31 55
Nov. 2		
FGU	iP	10 24 15
Nov. 2		
BOZ	eP	10 28 12
BUT	eP	10 28 21
FGU	iP	10 29 12
Nov. 2		
COL	eP	12 32 56
GCA	eP	12 32 37
Nov. 2		
RCD	eP	13 28 30
	e	28 45
Nov. 2		
COL	iP	15 31 36
EUR	iP	15 35 52
	ipP	36 11
FGU	iP	15 36 15
GCA	eP	15 36 31
HHM	eP	15 35 09
	i(pP)	35 25
SIT	eP	15 32 07
TUC	eP	15 37 08
	e	37 22

Date and Station		Phase (GCT)
		h m s
Nov. 2		
SJP	iP	16 16 51
	iS	17 29
	iL	17 31
Nov. 2		
COL	iP	16 43 55
HHM	eP'	16 50 08
Nov. 2		
BOZ	eP	17 13 09
Nov. 2		
BHP	iP'	17 33 31
BCN	eP	17 27 45
BUT	eP	17 28 02
COL	iP	17 27 16
	eS	38 36
	eP'P'	53 35
CSC	eP'	17 33 35
	eS	44 26
EUR	iP	17 27 44
	ipP	28 00
	ePKKP	45 26
	eP'P'	53 25
FGU	iP	17 28 03
	ePP	31 58
	e	34 15
	eS	38 44
GCA	eP	17 27 58
	i	28 27
	e(PP)	32 36
	e	44 28
	ePKKP	45 20
	i	46 00
	eP'P'	53 22
GUA	eP	17 21 08
	i	22 22
	eS	26 17
	eL	29 30
HON	eP	17 23 34
	eS	30 18
	eL	34 48
HHM	iP	17 28 00
	ePP	31 28
	eS	38 33
	ePKKP	45 15
	eP'P'	53 22
KIP	iP	17 23 34
SLC	eP	17 27 59
	eS	38 34
SJP	iP'	17 34 00

Date and Station		Phase (GCT)
		h m s
TUC	iP	17 27 56
	e	33 27
	iS	38 57
	iPKKP	45 20
	eL	52 23
	eP'P'	53 31
TUT	eP	17 27 56
	eP'P'	53 31
UKI	iP	17 27 17
	i	27 30
Nov. 2		
BOZ	e(P')	18 31 23
COL	iP'	18 29 32
EUR	eP'	18 29 57
	e	30 57
FGU	iP'	18 31 20
GCA	iP'	18 31 05
HHM	eP'	18 31 11
	e	35 09
THU	eP'	18 29 29
TUT	eP'	18 29 55
Nov. 2		
COL	iP	19 56 07
HHM	e(P)	19 57 57
Nov. 2		
FGU	eP	20 52 35
	i	52 37
Nov. 2		
FGU	eP	22 30 43
Nov. 2		
GCA	iP	23 58 54
SLC	iP	23 57 53
	iS	58 10
	iL	58 23
Nov. 3		
FGU	iP	02 29 48
Nov. 3		
FGU	eP	02 51 21
Nov. 3		
COL	iP	02 55 54
EUR	iP	02 55 19
	e	56 45
GCA	iP	02 55 29
HHM	eP	02 55 51

Date and Station		Phase (GCT)
		h m s
TUC	eP	02 55 17
	eL	03 20 35
Nov. 3		
EUR	eP	03 18 48
FGU	e(P)	03 18 47
Nov. 3		
GCA	eP	03 39 59
	e	41 23
Nov. 3		
COL	e(P)	05 58 05
Nov. 3		
BCN	eP	06 51 47
	e	53 01
EUR	eP	06 51 44
FGU	eP	06 52 58
	i	53 03
	e	55 40
GCA	eP	06 52 21
	i	53 36
	i	54 38
SLC	eP	06 52 53
	e	56 00
TUC	e(P)	06 52 44
	e	52 48
TUT	eP	06 52 50
	e	55 23
UKI	e(P)	06 51 13
	i	51 19
	e	52 21
Nov. 3		
TUC	iP	07 30 13
	iS	30 18
	iL	30 19
Nov. 3		
COL	e(P)	07 44 32
EUR	eP	07 45 05
	epP	45 24
Nov. 3		
EUR	eP	07 54 10
Nov. 3		
EUR	eP	08 11 12
Nov. 3		
GCA	e(P)	08 54 36
	e	56 19
SLC	iP	08 53 56
	e	54 21
Nov. 3		
FGU	eP	11 02 24

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Date and Station		Phase (GCT)
		h m s
Nov. 3		
BOZ	eP	15 07 03
BUT	iP	15 07 08
	eL	07 27
Nov. 3		
EUR	eP	16 41 54
FGU	iP	16 41 57
GCA	e(P)	16 41 28
HHM	eP	16 42 56
Nov. 3		
COL	eP	17 43 05
Nov. 3		
COL	e(P)	17 48 58
Nov. 3		
TUT	e(P)	19 06 30
Nov. 3		
BCN	eP	22 07 47
EUR	iP	22 08 25
FGU	iP	22 08 30
GCA	iP	22 07 58
HHM	e(P)	22 09 42
TUT	e(P)	22 06 55
Nov. 3		
EUR	eP	22 13 16
FGU	iP	22 13 00
HHM	eP	22 13 48
Nov. 3		
FGU	iP	23 17 20
	i	17 38
Nov. 3		
TUT	e(P)	23 53 54
Nov. 4		
FGU	eP	00 53 27
	e	53 03
Nov. 4		
FGU	eP	05 06 06
Nov. 4		
EUR	eP	05 08 11
Nov. 4		
COL	eP	09 02 35
Nov. 4		
EUR	eP	11 01 49
FGU	iP	11 01 36
GCA	eP	11 01 28
Nov. 4		
COL	iP	11 52 01
EUR	eP	11 51 40
GCA	eP	11 51 50
Nov. 4		
FGU	iP	14 03 57
Nov. 4		
GCA	eP	14 07 30
Nov. 4		
COL	iP	14 31 05
GUA	iP	14 23 17
Nov. 4		
GOL	eP'	18 35 19
CSC	eP	18 28 21
EUR	iP	18 29 29
FGU	iP	18 29 14
GCA	eP	18 29 10
	i	29 12
SJP	eP	18 26 47
TUC	eP	18 28 48
TUT	eP	18 28 48
Nov. 4		
SJP	iP	20 08 59
Nov. 5		
COL	iP	01 01 32
EUR	eP	01 04 14
FGU	iP	01 04 29
HHM	iP	01 03 53
	ipP	04 08
TUC	eP	01 04 51
Nov. 5		
CSC	eP	05 44 49
Nov. 5		
FGU	eP	08 25 19
Nov. 5		
TUC	eP	11 45 10
Nov. 5		
GCA	eP	12 14 45
Nov. 5		
EUR	eP	12 55 03
FGU	iP	12 54 57
TUC	iP	12 54 20
	e	13 12 23
Nov. 5		
EUR	eP	13 18 38
FGU	iP	13 19 02
TUC	eP	13 17 54
Nov. 5		
COL	e(P)	19 34 45
Nov. 5		
BOZ	eP	20 33 29
BUT	iP	20 33 29
COL	iP	20 32 39
	i	33 55
CSC	eP	20 32 47
EUR	iP	20 34 03
GCA	iP	20 34 03
HHM	iP	20 33 22
RCD	iP	20 33 06
SJP	iP	20 32 40
THU	e(P)	20 30 04
	i	30 16
TUC	iP	20 34 20
TUT	eP	20 34 18
Nov. 5		
TUT	e(P)	22 00 43
Nov. 5		
TUT	e(P)	22 09 44
Nov. 5		
TUT	e(P)	22 21 18
Nov. 5		
COL	e(P)	22 45 35
EUR	eP	22 46 25
TUT	e(P)	22 50 44
Nov. 5		
TUT	e(P)	23 32 53
Nov. 6		
BOZ	iP	04 47 47
BUT	eP	04 47 40
COL	iP	04 44 14
	iS	48 59
	i	55 00
	iP'P'	05 16 30
CSC	eP	04 50 18
EUR	iP	04 48 00
	eP'P'	05 17 11
FGU	iP	04 48 17
	i	48 23
	i	48 58
	e	54 22
	eL	56 23
GCA	eP	04 48 29
	e	48 39
	e	48 59
	eL	56 45
	eP'P'	05 17 12
	e	17 26
HON	eL	04 53 16
HHM	iP	04 47 24
	i	47 35
	iPcP	48 38
	eP'P'	05 17 34
KIP	eP	04 46 33
	eT	05 33 58
RCD	iP	04 47 24
SLC	iP	04 48 09
	e	05 02 43
SJP	eP	04 51 56
SIT	eP	04 45 21
	ePP	46 35
THU	iP	04 46 49
	ipP	46 59
	ePcP	48 21
	ePP	48 41
TUC	iP	04 48 54
	iS	57 36
	eP'P'	05 17 33
	i	17 46
UKI	eP	04 47 38
WAS	iP	04 49 59
Nov. 6		
BCN	eP	06 27 56
COL	iP	06 28 27
EUR	iP	06 27 51
	ePKKP	45 00
FGU	iP	06 28 14
	ePP	32 01
	ePKKP	45 08

Date and Station		Phase (GCT)
		h m s
GCA	eP	06 27 58
	i	27 59
	ePP	31 21
	ePKKP	45 08
	e	45 56
GUA	eP	06 24 35
HON	eP	06 24 24
HHM	e(P)	06 28 44
	ePKKP	45 14
KIP	iP	06 24 25
SLC	eP	06 28 07
TUC	eP	06 27 46
	ePKKP	45 24
	e	46 09
	eL	55 57
TUT	eP	06 27 47
Nov. 6		
COL	iP	06 52 05
Nov. 6		
TUT	eP	07 48 55
Nov. 6		
GCA	eP	09 03 08
TUC	e(P)	09 03 46
Nov. 6		
FGU	eP	09 18 36
Nov. 6		
EUR	eP	10 30 29
GCA	eP	10 30 35
TUC	eP	10 30 24
	e	30 26
TUT	e(P)	10 30 25
Nov. 6		
FGU	eP	10 37 13
GCA	eP	10 37 07
	i	38 07
Nov. 6		
TUC	eP	11 30 47
Nov. 6		
EUR	eP	15 20 44
TUC	eP	15 20 35
Nov. 6		
HHM	i(P)	16 34 21
Nov. 6		
COL	e(P)	18 50 32

Date and Station		Phase (GCT)
Nov. 6		h m s
FGU	iP	18 59 38
	i	00 12
Nov. 6		
EUR	eP	20 47 03
Nov. 6		
COL	i(P)	21 07 45
Nov. 6		
BCN	eP	22 17 47
BOZ	iP	22 17 16
BUT	eP	22 17 08
	ePcP	19 33
COL	iP	22 13 49
	iS	17 03
CSC	eP	22 20 27
EUR	iP	22 17 22
FGU	eP	22 17 47
	iPcP	19 48
	eScP	23 35
	eL	27 52
GCA	iP	22 17 57
	e	19 08
	e	22 06
GUA	eP	22 19 27
HON	eP	22 16 34
	eL	24 00
HHM	iP	22 16 49
	ePP	17 52
	iPcP	19 27
	eS	22 03
KIP	eP	22 16 32
	e	17 38
RCD	iP	22 18 03
SLC	e(P)	22 17 37
SJP	iP	22 22 27
	i	22 51
SIT	eP	22 14 32
	e	14 47
	eS	18 12
THU	iP	22 17 55
	i	18 17
TUC	iP	22 18 26
TUT	eP	22 18 27
UKI	iP	22 16 42
	ePP	17 58
	eS	22 11

Date and Station		Phase (GCT)
Nov. 6		h m s
COL	eP	23 14 17
Nov. 7		
COL	e(P)	02 25 07
Nov. 7		
BCN	eP	02 52 53
EUR	eP	02 51 19
FGU	eP	02 50 27
	i	50 30
	iS	51 07
Nov. 7		
COL	eP	03 48 30
Nov. 7		
COL	eP	08 48 33
	e	48 53
Nov. 7		
FGU	eP	08 53 10
Nov. 7		
FGU	eP	11 40 42
	e	41 15
Nov. 7		
BOZ	e(P)	13 35 39
BUT	eP	13 35 32
COL	iP	13 32 55
EUR	iP	13 35 43
FGU	iP	13 35 57
GCA	eP	13 36 04
GUA	eP	13 28 02
HHM	iP	13 35 20
RCD	eP	13 36 03
TUC	iP	13 35 21
Nov. 7		
FGU	eP	13 59 05
Nov. 7		
GCA	eP	14 43 38
	i	44 42
Nov. 7		
FGU	e(P)	14 52 50
Nov. 7		
COL	eP	16 39 15
EUR	eP	16 39 45
Nov. 7		
EUR	eP	20 37 30

Date and Station		Phase (GCT)
Nov. 7		h m s
GCA	e(P)	21 04 31
Nov. 7		
EUR	eP	21 12 20
	eS	13 23
	eL	13 30
TUC	e(P)	21 15 12
	e	15 17
Nov. 7		
EUR	eP	22 31 16
HHM	iP	22 31 46
Nov. 7		
COL	iP	23 43 17
Nov. 8		
COL	iP	00 01 59
GCA	eP	00 02 43
Nov. 8		
EUR	eP	00 09 35
TUC	eP	00 09 31
Nov. 8		
COL	iP	00 30 20
EUR	eP	00 33 22
HHM	iP	00 32 46
Nov. 8		
EUR	eP	00 46 20
TUC	e(P)	00 46 16
	e	46 36
Nov. 8		
FGU	iP	01 30 17
Nov. 8		
GCA	eP	02 49 13
Nov. 8		
COL	e(P)	02 57 46
EUR	eP	02 56 32
FGU	iP	02 55 54
	e	56 57
TUC	eP	02 56 15
Nov. 8		
GCA	eP	04 30 59
	e	31 04
Nov. 8		
COL	eP	04 39 30
CSC	eP	04 34 47
EUR	eP	04 38 13

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Date and Station		Phase	(GCT) h m s
FGU		iP	04 37 35
HHM		e(P)	04 38 01
RCD		eP	04 37 09
SJP		eP	04 33 08
TUC		eP	04 38 00
		i	38 06
		ePP	40 14
Nov. 8			
EUR		eP	04 43 35
FGU		eP	04 42 57
SJP		eP	04 38 24
TUC		eP	04 43 18
Nov. 8			
GCA		iP	05 26 26
Nov. 8			
BUT		eP	05 32 44
COL		iP	05 29 38
EUR		iP	05 32 59
		ipP	33 12
FGU		eP	05 33 07
GCA		eP	05 33 38
HHM		iP	05 32 30
		ipP	32 42
RCD		eP	05 33 24
		epP	38 37
THU		eP	05 31 51
TUC		eP	05 33 47
UKI		eP	05 32 43
Nov. 8			
COL		iP	05 34 50
EUR		iP	05 38 11
		ipP	38 24
FGU		iP	05 38 29
HHM		iP	05 37 43
		ipP	37 55
THU		iP	05 37 03
TUC		eP	05 39 00
UKI		eP	05 37 56
Nov. 8			
EUR		eP	06 17 14
Nov. 8			
EUR		eP	08 39 28
TUC		eP	08 38 44
Nov. 8			
COL		eP	09 47 29
Nov. 8			
FGU		iP	09 56 23
		i	56 56
Nov. 8			
EUR		eP	10 40 29
Nov. 8			
GCA		e(P)	11 05 44
		e	05 54
Nov. 8			
BUT		eP	11 08 37
		eS	11 04
Nov. 8			
EUR		eP	11 12 48
TUC		eP	11 12 41
Nov. 8			
GCA		eP	11 32 33
		i	32 39
		e	35 10
		e	37 04
Nov. 8			
BCN		eP	11 39 20
COL		iP	11 41 36
CSC		eP	11 43 29
		eL	55 18
EUR		iP	11 38 36
FGU		iP	11 39 23
		i	39 46
		e	41 02
		eL	42 56
HHM		iP	11 38 28
		eS	40 05
SLC		iP	11 39 03
		iL	41 54
SIT		eP	11 39 40
		eS	42 02
TUC		iP	11 40 25
		eL	44 42
TUT		eP	11 40 26
UKI		eP	11 37 57
		eS	38 07
Nov. 8			
EUR		eP	11 49 43
Nov. 8			
COL		iP	12 43 46
EUR		iP	12 46 22
HHM		iP	12 46 04
Nov. 8			
GCA		e(P)	13 36 11
Nov. 8			
COL		iP	13 38 42
		e	45 02
EUR		eP	13 42 43
		i	43 03
HHM		e(P)	13 42 03
		i	42 23
TUC		eP	13 43 54
		e	44 13
Nov. 8			
COL		eP	16 50 52
EUR		eP	16 53 52
Nov. 8			
COL		eP	19 15 06
Nov. 8			
EUR		eP	20 00 53
Nov. 8			
EUR		eP	23 06 05
FGU		iP	23 05 46
GCA		eP	23 05 37
TUC		eP	23 04 52
Nov. 9			
COL		iP	00 59 30
Nov. 9			
BCN		eP	01 28 56
BUT		eP	01 29 30
CSC		eP	01 27 13
EUR		iP	01 29 13
		i	29 25
		ipP	29 45
FGU		iP	01 28 59
		i	29 42
GCA		iP	01 28 50
HHM		iP	01 29 43
		ipP	30 16
SLC		e(P)	01 29 06
SJP		iP	01 25 02
		ipP	25 33
		isP	25 48
TUC		iP	01 28 25
Nov. 9			
EUR		eP	02 14 37
Nov. 9			
COL		eP	02 38 23
Nov. 9			
HHM		eP	03 00 44
Nov. 9			
BCN		eP'	03 36 50
		ePKKP	46 56
		eSKKP	50 09
BUT		eP'	03 37 02
COL		eP'	03 37 45
		i	37 56
EUR		iP'	03 36 55
		ePKKP	46 41
		eSKKP	49 48
FGU		iP'	03 36 51
		e	38 28
		iPKKP	46 49
		eSKKP	50 08
GCA		eP'	03 36 47
		e	38 11
		ePKKP	46 47
HHM		eP'	03 36 50
		i	37 06
		ePP	40 29
		i	40 37
		eSKKP	50 10
SLC		iP'	03 36 55
SJP		eP	03 30 36
SIT		eP'	03 37 36
THU		eP'	03 37 16
		i	37 25
		ePP	41 09
TUC		iP'	03 36 40
		ePP	38 34
		ePKKP	47 13
UKI		eP'	03 37 02
Nov. 9			
HHM		eP	04 33 33
Nov. 9			
SJP		iP	09 36 31
		i(S)	36 42
Nov. 9			
FGU		e(P)	10 24 44
		i	25 07

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Date and Station		Phase (GCT)
		h m s
Nov. 9		
BCN	ePP	11 01 42
BUT	eP	10 57 06
COL	iP	10 54 40
	i	11 12 35
	eP'P'	23 02
EUR	eP	10 57 24
FGU	eP	10 57 31
	e	59 26
	ePP	11 01 36
GCA	ePP	11 00 56
GUA	eP	10 51 37
	e	52 06
	eS	58 02
	eSS	11 01 06
HHM	iP	10 56 52
	i	57 03
	ePP	11 00 34
	ePKKP	14 48
TUC	ePP	11 02 17
	e	02 36
	e	02 56
Nov. 9		
COL	eP	11 33 52
Nov. 9		
COL	iP	12 31 28
Nov. 9		
COL	eP	12 38 12
EUR	eP	12 45 33
FGU	eP	12 45 47
HHM	eP	12 44 54
TUC	eP	12 46 50
Nov. 9		
UKI	e(P)	14 05 24
	i	05 36
Nov. 9		
COL	eP	14 38 07
Nov. 9		
GCA	e(P)	16 43 57
TUC	iP	16 43 02
	iS	43 24
	iL	43 25
Nov. 9		
TUT	eP	17 01 06
Nov. 9		
TUC	eP	18 01 37
	e	02 03

Date and Station		Phase (GCT)
		h m s
Nov. 9		
TUT	eP	19 38 29
Nov. 9		
GCA	eP	19 45 46
TUC	eP	19 45 37
Nov. 9		
BCN	eP	20 17 43
BUT	eP	20 18 19
COL	e(P)	20 20 36
	ePP	24 49
	iSKS	30 47
EUR	iP	20 18 00
GCA	iP	20 17 37
HHM	iP	20 18 32
	ipP	18 45
SJP	iP	20 14 02
	i(pP)	14 19
TUC	eP	20 17 12
	e	21 32
	eS	27 09
	eL	34 09
Nov. 9		
TUT	eP	23 41 34
Nov. 10		
COL	eP	00 47 54
EUR	eP	00 51 51
Nov. 10		
EUR	eP	01 24 34
Nov. 10		
BCN	eP	01 39 07
COL	iP	01 43 08
EUR	eP	01 39 27
GCA	eP	01 38 51
HHM	iP	01 39 56
SJP	iP	01 38 35
TUC	e(P)	01 38 30
	iP	38 33
	i	38 46
Nov. 10		
COL	iP	02 06 21
Nov. 10		
EUR	eP	02 12 21
Nov. 10		
COL	e(P)	03 14 23

Date and Station		Phase (GCT)
		h m s
Nov. 10		
GUA	iP	03 19 40
	i	19 56
	eS	22 46
Nov. 10		
GUA	iP	04 18 29
	i	18 46
	eS	19 33
Nov. 10		
BOZ	e(P)	04 37 46
Nov. 10		
COL	e(P)	05 01 40
Nov. 10		
BOZ	eP	05 32 52
	e	38 05
Nov. 10		
BCN	eP	05 41 48
COL	eP	05 42 41
EUR	eP	05 41 46
	e	58 40
GCA	eP	05 41 31
HHM	eP	05 41 19
SLC	e(P)	05 41 22
TUC	eP	05 41 36
Nov. 10		
GCA	e(P)	07 55 23
	e	56 12
Nov. 10		
TUT	eP	08 59 12
Nov. 10		
TUT	eP	09 03 40
Nov. 10		
COL	eP	10 11 37
HHM	e(P)	10 14 43
Nov. 10		
COL	iP	11 00 01
HHM	i(P)	11 02 19
Nov. 10		
BOZ	eP	11 04 18
	eS	04 33
	eL	04 41
Nov. 10		
BOZ	iP	11 38 53
	eS	41 21
	eL	44 43
Nov. 10		
TUT	eP	13 17 12

Date and Station		Phase (GCT)
		h m s
Nov. 10		
BCN	eP	14 58 55
	ePP	15 03 10
	ePKKP	14 59
BUT	eP	14 58 54
	ePP	15 03 09
COL	iP	14 57 23D
	e(S)	15 08 15
	eP'P'	23 55
EUR	iP	14 58 47C
	i	59 12
	i	59 32
	iPP	15 02 59
	iPKKP	14 44
	i	15 04
GCA	eP	14 59 03
	ePP	15 03 17
	iPKKP	14 49
GUA	iP	14 48 50C
	eS	52 03
HHM	eP	14 58 45
	e	02 37
	ePP	15 03 08
	ePKKP	14 43
	i	15 06
HON	iP	14 55 35C
	eS	15 04 18
	eL	11 48
KIP	iP	14 55 35C
SJP	iP'	15 04 39
	i	05 20
SIT	eP	14 57 41
TUC	e(P')	15 03 09
	ePP	03 34
	e	06 22
	ePKKP	14 41
	i	15 05
UKI	eP	14 58 22
	ePP	15 02 22
Nov. 10		
COL	eP	16 43 14
EUR	eP	16 43 11
GCA	e(P)	16 43 16
TUT	e(P)	16 43 13
Nov. 10		
HHM	e(P)	17 29 15
TUT	eP	17 27 51
Nov. 10		
BCN	eP	17 43 08

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

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Date and Station		Phase (GCT)
		h m s
Nov. 12		
BOZ	eP	14 58 59
	e	15 03 09
	e	14 36
	e	33 47
Nov. 12		
BCN	eP	15 42 25
Nov. 12		
HHM	eP	16 07 33
Nov. 12		
HHM	eP	17 03 57
	i	04 23
SJP	eP	16 59 36
Nov. 12		
COL	iP	18 44 18
EUR	iP	18 47 42
	ipP	48 18
HHM	iP	18 47 12
TUT	e(P)	18 48 30
Nov. 12		
TUT	eP	19 49 53
Nov. 12		
GCA	eP	21 30 23
Nov. 12		
COL	eP	22 13 16
Nov. 12		
GCA	e(P)	23 16 11
Nov. 12		
BCN	eP	23 38 59
EUR	eP	23 38 58
HHM	e(P)	23 40 12
TUT	eP	23 40 19
	eS	41 44
Nov. 13		
BOZ	eP	00 03 44
	eS	04 00
Nov. 13		
BOZ	eP	05 44 11
Nov. 13		
BOZ	e(P)	06 14 32
Nov. 13		
COL	iP	06 49 45
	eS	07 00 10
CSC	eP'	06 56 24
	ePP	59 45

Date and Station		Phase (GCT)
		h m s
EUR	eP	06 51 31
	iP'	55 33
	ePKKP	07 06 39
FGU	iP'	06 55 42
GCA	eP'	06 55 42
	e	07 05 27
	e	05 37
HHM	eP	06 51 23
	e(P')	55 11
	ePP	55 51
	ePKKP	07 06 44
SJP	eP'	06 56 58
	i	57 27
	ePP	07 01 03
TUC	eP'	06 55 46
	i	56 48
	ePKKP	07 06 24
	eL	33 14
TUT	eP'	06 55 46
	ePKKP	07 06 24
Nov. 13		
EUR	eP	07 20 56
FGU	iP	07 20 42
Nov. 13		
COL	iP	07 29 07
EUR	eP	07 33 02
Nov. 13		
BCN	eP	07 53 46
	eL	54 26
EUR	eP	07 54 02
	i	54 12
	eS	54 55
	eL	54 59
GCA	eP	07 54 37
Nov. 13		
COL	eP	09 24 07
Nov. 13		
BCN	iP	09 28 19D
	eS	34 15
	eL	38 00
BOZ	iP	09 27 50D
	ePP	29 17
	e(S)	33 50
	e(L)	38 31
BUT	eP	09 27 41D
	eS	33 26
	eL	36 02
COL	iP	09 24 33
	iS	28 02

Date and Station		Phase (GCT)
		h m s
CSC	iP	09 30 58D
	eS	39 26
EUR	iP	09 27 54D
FGU	iP	09 28 20D
	iPcP	30 21
	iS	34 11
	eL	38 27
GCA	iP	09 28 40D
	iPcP	30 22
GUA	iP	09 29 48D
	e(S)	38 50
HHM	iP	09 27 25D
	i	27 48
	iPP	28 43
	i	29 05
	isPP	29 27
	iPcP	29 56
	eS	33 09
	e	33 29
	i	34 08
HON	iP	09 26 54C
	eS	31 36
	eL	23 34
KIP	eP	09 26 53
SLC	eP	09 28 08D
	eS	34 02
	eL	37 22
SJP	iP	09 33 01D
	i	33 08
	ePP	36 17
SIT	iP	09 25 12C
	eS	28 39
	eL	28 55
THU	iP	09 28 35C
	esP	29 16
	iS	35 01
TUC	iP	09 28 57D
	i	28 58
	i	31 36
	iPcS	34 28
	iS	35 35
	iL	39 14
	eP'P'	59 32
TUT	iP	09 28 57D
	i	29 17
	iPcP	30 07
	iPP	31 01
	e	32 01
	eS	36 24
	eL	39 26
UKI	iP	09 27 18D
	ePP	28 41
	eS	32 43
	L	35 11

Date and Station		Phase (GCT)
		h m s
WAS	iP	09 29 48C
	eS	38 12
	eL	47 32
Nov. 13		
HHM	iP	10 39 52
Nov. 13		
HHM	e(P)	10 42 24
TUC	eP	10 41 24
Nov. 13		
GCA	iP	10 52 00
Nov. 13		
COL	eP	11 35 54
Nov. 13		
COL	eP	12 14 25
Nov. 13		
BCN	eP	12 33 24
COL	iP	12 29 37
EUR	eP	12 32 57
GCA	eP	12 33 34
	ePcP	35 23
HHM	eP	12 32 27
THU	eP	12 33 39
	epP	33 48
TUC	eP	12 34 02
TUT	eP	12 34 02
Nov. 13		
COL	eP	12 57 49
Nov. 13		
COL	eP	13 22 17
Nov. 13		
BCN	eP	13 32 12
BOZ	eP	13 31 44
COL	iP	13 28 29
EUR	iP	13 31 48
FGU	eP	13 32 13
	iPcP	34 12
GCA	eP	13 32 23
	eScP	37 54
HHM	iP	13 31 19
	iPcP	33 51
SJP	eP	13 36 55
THU	eP	13 32 30

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Date and Station		Phase	(GCT) h m s
TUC		iP	13 32 51
		e	33 08
TUT		iP	13 32 52
Nov. 13			
COL		eP	13 32 08
EUR		iP	13 35 26
HHM		iP	13 34 57
SJP		eP	13 40 34
SIT		eP	13 32 44
THU		eP	13 36 08
TUC		eP	13 36 30
Nov. 13			
BCN		eP	14 00 12
COL		iP	13 56 29
EUR		iP	13 59 48
		ePcP	14 02 01
FGU		eP	14 00 14
		e	01 12
		i	01 34
		iPcP	02 02
GCA		e(P)	14 00 11
		e	00 23
HHM		iP	13 59 19
		iPcP	14 01 51
SJP		eP	14 04 55
THU		eP	14 00 30
TUC		eP	14 00 51
		e	01 01
TUT		eP	14 00 51
Nov. 13			
COL		eP	14 33 13
EUR		iP	14 36 33
HHM		iP	14 36 04
		ePcP	38 37
Nov. 13			
COL		eP	15 31 54
EUR		iP	15 35 13
HHM		eP	15 34 44
Nov. 13			
HHM		eP	16 16 20
Nov. 13			
TUT		eP	17 14 50

Date and Station		Phase	(GCT) h m s
Nov. 13			
BCN		eP	17 26 55
COL		iP	17 23 11
EUR		iP	17 26 31
		i	26 44
HHM		iP	17 26 02
SJP		eP	17 31 38
THU		eP	17 27 13
TUC		iP	17 27 34
TUT		eP	17 27 34
Nov. 13			
COL		eP	19 03 03
EUR		eP	19 06 23
HHM		e(P)	19 05 56
Nov. 13			
COL		eP	19 23 03
EUR		eP	19 26 18
Nov. 13			
TUC		eP	19 49 54
		e	50 13
		iL	55 25
Nov. 13			
TUC		eP	20 12 15
TUT		eP	20 12 16
Nov. 13			
COL		e(P)	20 49 11
Nov. 13			
GCA		eP	20 55 32
HHM		eP	20 55 06
SJP		e(P)	20 52 27
THU		eP	20 52 51
TUC		eP	20 55 46
TUT		eP	20 55 44
Nov. 13			
TUT		eP	21 23 22
Nov. 13			
SJP		eP	21 37 17
Nov. 13			
COL		eP	22 03 43
EUR		eP	22 07 00
HHM		eP	22 06 30

Date and Station		Phase	(GCT) h m s
Nov. 13			
TUT		eP	22 38 32
Nov. 14			
EUR		eP	00 49 16
Nov. 14			
EUR		eP	01 21 29
Nov. 14			
EUR		eP	02 27 28
Nov. 14			
GCA		e(P)	02 50 45
		e	50 51
Nov. 14			
SIT		e(P)	03 12 53
		e	13 26
Nov. 14			
COL		iP	03 49 57
HHM		eP	03 54 27
Nov. 14			
COL		iP	04 53 36
HHM		eP	04 58 08
Nov. 14			
EUR		eP	05 36 36
Nov. 14			
EUR		iP	05 58 17
		ipP	58 38
Nov. 14			
TUT		eP	06 38 06
Nov. 14			
EUR		eP	08 28 44
Nov. 14			
COL		eP	08 49 19
EUR		iP	08 52 36
		i	52 45
		i	52 53
Nov. 14			
COL		e(P)	12 20 14
Nov. 14			
COL		eP	12 58 31
EUR		eP	13 01 52
Nov. 14			
COL		eP	14 40 25
EUR		eP	14 43 45
HHM		eP	14 43 15
		e	45 47
TUT		eP	14 44 48

Date and Station		Phase	(GCT) h m s
Nov. 14			
COL		eP	16 07 57
Nov. 14			
COL		eP	18 03 40
Nov. 14			
COL		iP	18 05 24
GUA		iP	18 01 33
HHM		eP	18 05 28
TUT		eP	18 05 02
Nov. 14			
SLC		iP	19 04 11
		eS	04 30
		eL	04 46
Nov. 14			
BCN		eP	20 04 59
BOZ		eP	20 06 17
COL		iP	20 09 49
CSC		eP	20 04 23
		e(S)	08 40
EUR		iP	20 05 55
		i	06 34
FGU		iP	20 05 36
		eL	16 19
GCA		iP	20 05 18
HHM		iP	20 06 45
SLC		eP	20 05 44
SJP		eP	20 05 18
TUC		iP	20 04 44
		i	05 17
		eL	09 27
TUT		iP	20 04 43
		i	04 57
		iPP	05 11
		eS	07 55
		eScP	09 20
		ePcS	10 01
Nov. 14			
BCN		iP	20 20 27
		iS	20 46
		iL	20 56
EUR		eP	20 20 48
TUT		eP	20 21 36
		eS	22 41
Nov. 14			
COL		eP	21 59 29
Nov. 14			
EUR		iP	23 11 09

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Date and Station		Phase (GCT)
		h m s
FGU	eP	23 10 43
GCA	iP	23 10 39
HHM	eP	23 11 36
SJP	iP	23 05 29
	iS	07 46
TUC	eP	23 10 10
Nov. 14		
COL	eP	22 43 43
Nov. 15		
COL	e(P)	01 34 46
Nov. 15		
TUT	eP	02 03 12
Nov. 15		
FGU	eP	02 13 51
	i	14 30
Nov. 15		
TUT	eP	02 18 12
Nov. 15		
COL	eP	02 29 06
EUR	eP	02 26 27
FGU	eP	02 25 16
	i	26 21
HHM	eP	02 26 37
SJP	iP	02 18 50
	iS	19 16
TUT	eP	02 25 43
Nov. 15		
COL	iP	02 41 36
EUR	eP	02 41 58
TUT	eP	02 42 17
Nov. 15		
TUC	eP	04 28 05
Nov. 15		
COL	eP	04 54 09
EUR	eP	04 57 26
	i	57 35
HHM	e(P)	04 57 00
Nov. 15		
HON	eL	07 01 44
Nov. 15		
COL	eP	08 14 25
EUR	eP	08 17 41
HHM	e(P)	08 17 12

Date and Station		Phase (GCT)
		h m s
Nov. 15		
COL	iP	09 18 02
EUR	eP'	09 24 26
FGU	eP'	09 24 28
GCA	eP'	09 24 44
HHM	eP'	09 24 16
TUC	eP'	09 24 44
TUT	eP'	09 24 44
Nov. 15		
COL	eP	09 41 14
EUR	eP	09 44 32
Nov. 15		
COL	eP	10 34 43
EUR	eP	10 38 04
TUC	eP	10 39 07
TUT	eP	10 39 07
Nov. 15		
TUC	eP	11 08 11
Nov. 15		
HHM	e(P)	11 24 45
Nov. 15		
EUR	eP	14 59 16
Nov. 15		
HHM	iP	16 08 37
Nov. 15		
GCA	eP	20 59 10
	i	21 00 03
Nov. 15		
TUT	eP	21 53 33
Nov. 15		
SJP	iP	22 40 59
	i(S)	41 56
Nov. 15		
TUT	eP	22 49 14
Nov. 16		
EUR	iP	01 24 37
	i	24 46
Nov. 16		
COL	eP	01 35 25
EUR	eP	01 35 05
FGU	iP	01 35 14
	epP	37 15
TUC	iP	01 35 05

Date and Station		Phase (GCT)
		h m s
TUT	eP	01 35 06
	epP	37 00
Nov. 16		
HHM	e(P)	01 39 24
Nov. 16		
COL	i(P)	01 52 53
Nov. 16		
FGU	eP	02 02 42
	i	02 52
Nov. 16		
COL	iP	02 09 45
EUR	iP	02 13 27
Nov. 16		
EUR	iP	02 32 37
Nov. 16		
EUR	eP	05 04 30
Nov. 16		
EUR	eP	05 24 28
Nov. 16		
EUR	eP	08 02 50
Nov. 16		
TUT	e(P)	08 47 31
Nov. 16		
GUA	iP	13 04 57
	eS	05 10
Nov. 16		
EUR	eP	14 58 27
Nov. 16		
COL	eP	15 10 42
Nov. 16		
BCN	eP	15 46 35
COL	eP	15 49 53
EUR	eP	15 46 54
GCA	eP	15 46 19
HHM	eP	15 47 18
SJP	i(P)	15 41 02
TUT	eP	15 45 57
Nov. 16		
COL	eP	15 55 30
Nov. 16		
COL	iP	17 16 49
Nov. 16		
COL	e(P)	17 26 46

Date and Station		Phase (GCT)
		h m s
Nov. 16		
HHM	e(P)	17 41 24
Nov. 16		
COL	eP	22 45 41
Nov. 16		
COL	iP	23 10 50
HHM	iP	23 12 56
	i	13 03
	ePP	16 32
THU	eP	23 10 26
TUT	eP'	23 18 18
Nov. 16		
HHM	iP	23 54 46
	iL	55 48
Nov. 17		
TUC	iP	01 10 43
	i	10 51
Nov. 17		
EUR	iP	01 41 26
GCA	eP	01 41 07
HHM	eP	01 41 57
TUT	eP	01 40 44
Nov. 17		
SJP	iP	01 42 32
Nov. 17		
COL	iP	02 35 00
Nov. 17		
COL	eP	03 02 45
EUR	eP	03 06 03
Nov. 17		
EUR	eP	03 39 48
SLC	iP	03 39 14
	eS	39 41
Nov. 17		
BCN	eP	04 20 53
EUR	iP	04 20 58
GCA	eP	04 21 05
TUC	eP	04 20 53
	i	21 16
TUT	eP	04 20 54
Nov. 17		
BCN	eP	05 28 50
BOZ	e(P)	05 29 23

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

Date and Station		Phase (GCT)
		h m s
GCA	e(P)	00 13 35
	e	13 46
	e	15 44
HHM	iP	00 12 54
	i	13 05
	i(S)	13 54
	iL	13 59
Nov. 19		
COL	eP	02 00 38
Nov. 19		
COL	iP	04 36 25
Nov. 19		
SJP	e(P)	04 55 51
Nov. 19		
EUR	eP	04 59 47
Nov. 19		
COL	e(P)	07 16 31
EUR	eP	07 16 19
GCA	eP	07 16 28
TUC	eP	07 16 21
TUT	eP	07 16 22
Nov. 19		
COL	iP	08 12 35
EUR	iP	08 16 05
FGU	eP	08 16 28
GCA	e(P)	08 16 13
	e	16 57
HHM	e(P)	08 15 34
TUC	eP	08 17 05
TUT	e(P)	08 17 04
Nov. 19		
COL	iP	08 49 25
Nov. 19		
GCA	eP	09 15 21
TUT	e(P)	09 15 10
Nov. 19		
BUT	eP	12 30 19
COL	iP	12 28 31
EUR	eP	12 30 18
FGU	e(P)	12 30 33
HHM	iP	12 30 13
SJP	iP'	12 36 21

Date and Station		Phase (GCT)
		h m s
Nov. 19		
COL	iP	13 25 05
Nov. 19		
TUT	eP	18 43 52
Nov. 19		
COL	iP	19 22 09
	iS	23 09
EUR	eP	19 28 06
Nov. 19		
GCA	eP	22 02 32
	e	02 41
Nov. 19		
TUC	eP	22 51 51
Nov. 20		
EUR	iP	00 01 06
GCA	e(P)	00 00 59
	e	01 20
Nov. 20		
EUR	eP	00 31 02
Nov. 20		
FGU	eP	03 49 36
Nov. 20		
EUR	eP	03 57 26
Nov. 20		
COL	iP	04 03 22
HHM	e(P)	04 05 45
Nov. 20		
COL	iP	04 42 51
EUR	iP	04 46 13
	i	46 26
GCA	iP	04 46 47
HHM	iP	04 45 43
TUC	iP	04 47 15
Nov. 20		
FGU	iP	05 45 07
Nov. 20		
TUT	e(P)	06 05 54
Nov. 20		
EUR	eP	10 59 14
FGU	eP	10 58 57
HHM	e(P)	10 59 53
SJP	eP	10 55 11
TUT	eP	10 58 16

Date and Station		Phase (GCT)
		h m s
Nov. 20		
EUR	eP	11 31 50
Nov. 20		
TUT	eP	11 44 52
Nov. 20		
TUC	iP	15 49 11
	iS	49 32
	iL	49 33
Nov. 20		
COL	eP	20 40 16
Nov. 20		
BCN	e(P)	20 56 41
	e	57 55
TUT	eP	20 56 47
	eS	58 13
Nov. 20		
BCN	eP	22 11 15
BOZ	eP	22 11 54
	eS	19 52
BUT	eP	22 12 00D
	eS	20 14
	eL	26 34
COL	iP	22 14 38D
	iS	25 13
	ePKKP	39 06
CSC	eP	22 09 33
	eS	15 40
EUR	eP	22 11 36
	i	11 37
FGU	eP	22 11 17
	i	11 21
	i	11 44
	i	12 22
	eL	19 06
HON	eP	22 14 08
	eS	24 16
	eL	36 04
HHM	eP	22 12 18
	iPcP	12 57
	eP'P'	41 49
SLC	iP	22 11 28D
	eS	19 15
	eL	27 15
SJP	eP	22 07 55
	i	08 07
	i	08 15
	i	10 08
	eS	12 37
SIT	eP	22 14 06
	eS	23 55
THU	eP	22 14 21

Date and Station		Phase (GCT)
		h m s
TUC	eP	22 10 34D
	ipP	10 40
	e	12 31
	eS	17 31
	eL	21 35
TUT	eP	22 10 33
	i	10 53
	ePP	12 52
	e	13 08
	eScP	14 31
	ePcS	14 58
UKI	eP	22 12 07
	ePP	14 21
	eS	20 20
Nov. 20		
EUR	eP	23 51 36
Nov. 21		
TUT	e(P)	00 14 32
Nov. 21		
COL	eP	01 24 57
Nov. 21		
COL	eP	02 05 32
Nov. 21		
GUA	iP	04 32 58
	iS	36 11
Nov. 21		
COL	e(P)	04 34 33
CSC	eP	04 29 20
EUR	eP	04 31 23
FGU	eP	04 31 08
HHM	e(P)	04 32 03
SJP	eP	04 27 40
	i	27 47
TUC	eP	04 30 22
TUT	eP	04 30 22
Nov. 21		
BCN	eP	04 41 50
COL	iP	04 40 41
EUR	iP	04 41 44
	i	41 48
	i	42 14
FGU	iP	04 42 06
HHM	iP	04 41 51
SJP	eP'	04 48 46
	i	48 55
TUC	eP	04 42 07

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Date and Station		Phase	(GCT)
			h m s
Nov. 21			
COL	i(P)		06 22 40
Nov. 21			
BCN	e(P)		07 38 55
EUR	eP		07 37 41
FGU	e(P)		07 37 55
	eL		41 43
TUC	eP		07 35 50
	i		36 06
	iL		37 02
TUT	eP		07 35 50
	iL		37 02
Nov. 21			
BCN	e(P)		08 13 52
EUR	eP		08 13 04
	eL		16 39
FGU	eP		08 13 21
	eL		17 03
TUC	eP		08 11 15
	i		11 24
	i		11 31
	iL		12 23
TUT	eP		08 11 17
Nov. 21			
COL	eP		08 16 40
EUR	eP		08 20 10
FGU	eP		08 20 33
HHM	e(P)		08 19 37
Nov. 21			
COL	iP		08 48 47
TUC	eP		08 49 47
TUT	eP		08 49 47
Nov. 21			
EUR	eP		11 32 44
Nov. 21			
BOZ	iP		11 45 44
	iS		46 02
FGU	eP		11 46 39
	i		47 32
Nov. 21			
COL	eP		11 46 45
Nov. 21			
FGU	eP		12 29 53
Nov. 21			
SJP	iP		15 40 08
	e(S)		42 56

Date and Station		Phase	(GCT)
			h m s
Nov. 21			
COL	eP		18 07 55
Nov. 21			
COL	e(P)		18 49 08
Nov. 21			
COL	iP		18 49 47
EUR	iP		18 53 37
	ipP		53 59
FGU	eP		18 53 55
	i		54 03
GCA	e(P)		18 54 04
Nov. 21			
COL	iP		21 13 24
Nov. 21			
FGU	eP		21 22 38
Nov. 21			
TUT	eP		22 53 15
	eS		54 18
Nov. 21			
SLC	e(P)		22 56 47
Nov. 22			
EUR	eP		02 42 02
FGU	iP		02 41 45
	i		42 15
GCA	e(P)		02 41 33
HHM	eP		02 42 42
SJP	iP		02 38 19
TUC	eP		02 41 03
TUT	eP		02 41 03
Nov. 22			
FGU	eP		03 01 23
Nov. 22			
COL	e(P)		03 16 06
EUR	eP		03 14 49
FGU	eP		03 14 19
HHM	eP		03 14 41
SJP	e(P)		03 08 59
TUC	e(P)		03 14 32
TUT	e(P)		03 14 17
Nov. 22			
BUT	eP		03 44 37
COL	iP		03 44 36

Date and Station		Phase	(GCT)
			h m s
EUR	eP		03 44 02
FGU	eP		03 44 27
GCA	e(P)		03 44 05
	e		44 12
HHM	eP		03 44 36
HON	eL		03 52 40
TUC	eP		03 44 01
	eL		04 10 19
TUT	eP		03 44 00
Nov. 22			
COL	e(P)		03 54 52
Nov. 22			
COL	iP		03 58 01
EUR	eP		03 57 26
FGU	eP		03 57 44
	e		58 02
GCA	eP		03 57 36
TUC	e(P)		03 57 29
TUT	eP		03 57 24
Nov. 22			
COL	iP		04 15 26
Nov. 22			
CSC	eP		05 26 21
TUT	e(P)		05 24 10
Nov. 22			
EUR	eP		05 49 01
GCA	eP		05 49 17
	e		50 17
Nov. 22			
EUR	eP		06 26 45
TUC	eP		06 26 47
	e		26 54
	iL		27 49
TUT	e(P)		06 26 45
	eS		27 45
Nov. 22			
BOZ	eP'		06 41 52
	ePP		46 36
BUT	eP'		06 41 52
	ePP		46 38
COL	iP'		06 41 33
CSC	eP'		06 41 21

Date and Station		Phase	(GCT)
			h m s
EUR	eP'		06 41 56
	i		43 15
	iPP		47 06
FGU	eP'		06 41 51
	i		42 51
	iPP		46 42
GCA	eP'		06 41 58
	ePP		46 51
HHM	iP'		06 41 50
	i		42 55
	ePP		46 31
	e		50 26
SLC	iP'		06 41 52
	e		42 59
	ePP		46 28
THU	eP'		06 41 01
TUC	eP'		06 41 53
	i		42 05
	i		42 57
	ePP		46 49
TUT	eP'		06 41 53
Nov. 22			
EUR	eP		07 03 23
TUC	eP		07 02 37
	e		02 42
Nov. 22			
COL	iP		07 15 13
EUR	iP		07 19 00
	i		19 11
FGU	eP		07 19 17
	i		19 20
	i		20 06
GCA	eP		07 19 29
HHM	eP		07 18 23
	iPcP		19 36
SLC	e(P)		07 19 10
THU	eP		07 17 49
TUC	eP		07 19 55
Nov. 22			
COL	iP		08 44 15
EUR	eP		08 47 51
Nov. 22			
EUR	eP		09 29 04
Nov. 22			
EUR	eP		09 45 43

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

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Date and Station		Phase	(GCT) h m s
TUT		eP	17 41 27
Nov. 23			
EUR		iP	17 46 15
Nov. 23			
BOZ		iP	18 09 42
COL		iP	18 09 44
EUR		iP	18 09 12
FGU		eP	18 09 31
GCA		eP	18 09 20
		i	09 21
		i	10 23
HHM		iP	18 09 42
		i	09 51
KIP		eP	18 05 20
TUC		iP	18 09 10
TUT		iP	18 09 11
UKI		eP	18 08 50
		epP	09 00
Nov. 23			
COL		eP	18 46 48
TUT		eP	18 46 15
Nov. 23			
EUR		eP	18 55 38
Nov. 23			
COL		eP	19 47 35
Nov. 23			
COL		iP	20 24 13
EUR		iP	20 23 41
FGU		eP	20 24 04
GCA		eP	20 23 44
HHM		eP	20 24 11
TUT		eP	20 23 38
Nov. 23			
EUR		eP	21 16 20
FGU		iP	21 16 05
TUT		eP	21 15 20
Nov. 23			
COL		iP	21 26 27
EUR		eP	21 26 06
FGU		iP	21 26 30

Date and Station		Phase	(GCT) h m s
TUC		eP	21 26 08
Nov. 23			
TUT		e(P)	22 31 28
Nov. 23			
FGU		eP	23 18 39
		i	18 55
Nov. 23			
COL		eP	23 27 37
Nov. 23			
SLC		iP	23 34 17
		eS	34 34
Nov. 24			
COL		eP	01 24 01
		e	26 04
EUR		iP	01 22 44
Nov. 24			
EUR		eP	01 25 25
GCA		eP	01 25 17
TUC		eP	01 25 30
TUT		eP	01 25 22
Nov. 24			
COL		iP	03 16 47
Nov. 24			
EUR		eP	04 57 39
Nov. 24			
BUT		ePP	05 07 34
COL		iP	05 02 25
		e	12 41
EUR		iP	05 03 26
		ipP	03 53
		ePKKP	20 15
FGU		iP	05 03 50
		iPP	07 50
GCA		e(P)	05 03 36
		e	03 44
		ePP	07 32
GUA		eP	04 54 45
		eS	58 26
HON		iP	04 59 45
		eS	05 07 16
HHM		iP	05 03 33
		i	04 05
		ePP	07 21
KIP		iP	04 59 39

Date and Station		Phase	(GCT) h m s
SJP		eP'	05 09 33
		ePP	13 13
SIT		eP	05 02 39
TUC		eP	05 03 46
		e	04 06
TUT		eP	05 03 46
Nov. 24			
COL		e(P)	06 28 06
Nov. 24			
BHP		iP	07 06 28C
		iS	17 06
BOZ		iP	07 05 51C
		e	06 41
		ePP	09 28
BUT		eP	07 05 47C
		eS	16 34
		ePKKP	22 42
		e	26 18
COL		iP	07 05 50D
		iS	16 23
		eSKPP'	35 30
CSC		eP'	07 10 34
		eS	17 46
		ePKKP	22 33
		eL	26 40
		e	37 10
EUR		iP	07 05 20D
FGU		iP	07 05 43
		i	06 57
GCA		iP	07 05 28
		ePP	09 19
		eL	16 12
GUA		eP	07 02 05
		e	04 55
HON		iP	07 01 31
		eS	08 32
		eL	12 00
HHM		iP	07 05 48D
		iPP	09 31
		eS	16 28
		ePKKP	23 11
		eP'P'	31 25
		eP'P'P'	52 19
KIP		iP	07 01 30
		e	03 22
SLC		iP	07 05 36C
		eS	16 08
		eL	29 00

Date and Station		Phase	(GCT) h m s
SJP		iP'	07 11 25
		ePKKP	22 05
SIT		iP	07 05 37D
		eS	16 21
THU		eP'	07 11 29
		ePP	12 43
TUC		eP	07 05 16D
		iP	05 17C
		e	15 26
		iS	15 45
		i	16 35
		i	17 23
		ePKKP	23 35
		iPKKP	23 38
		i	25 06
		eL	27 07
		eP'P'	31 40
		e	35 06
TUT		iP	07 05 17C
		iPP	09 13
		e	11 03
		eS	15 55
		e	16 48
		e	18 19
UKI		iP	07 04 57C
WAS		eP'	07 11 07
		iPP	12 03
		i	20 30
		i	25 36
		eL	43 55
Nov. 24			
COL		i(P)	07 43 37
TUC		eP	07 43 04
Nov. 24			
COL		iP	07 45 57
TUC		iP	07 45 22
Nov. 24			
COL		e(P)	08 03 55
GCA		e(P)	08 03 21
		e	03 32
SJP		eP	08 00 43
TUC		eP	08 03 22
Nov. 24			
BOZ		iP	08 29 54
COL		iP	08 29 54
EUR		eP	08 29 23
FGU		eP	08 29 47
GCA		eP	08 29 31

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Date and Station		Phase (GCT)
		h m s
HHM	eP	08 29 53
TUC	iP	08 29 21
Nov. 24		
BUT	eP	08 39 19
COL	iP	08 39 23
EUR	eP	08 38 51
FGU	eP	08 39 15
GCA	eP	08 39 00
HHM	eP	08 39 23
TUC	eP	08 38 49
	e	38 51
Nov. 24		
EUR	eP	08 40 02
Nov. 24		
COL	e(P)	08 50 34
GCA	e(P)	08 49 59
	e	50 11
TUC	eP	08 50 08
Nov. 24		
COL	e(P)	09 29 34
GCA	eP	09 29 13
TUC	eP	09 29 02
TUT	eP	09 29 03
Nov. 24		
COL	iP	09 41 20
FGU	eP	09 41 13
GCA	eP	09 40 58
HHM	eP	09 41 18
TUC	iP	09 40 47
TUT	eP	09 40 47
Nov. 24		
COL	eP	09 51 03
Nov. 24		
TUT	e(P)	11 29 08
Nov. 24		
FGU	eP	11 52 47
Nov. 24		
TUT	eP	11 58 46
Nov. 24		
COL	eP	14 17 27

Date and Station		Phase (GCT)
		h m s
EUR	eP	14 21 23
FGU	e(P)	14 21 37
	i	22 28
Nov. 24		
COL	eP	15 21 12
Nov. 24		
TUT	eP	18 03 24
Nov. 24		
COL	iP	18 27 38
	iS	28 58
EUR	eP	18 32 11
FGU	iP	18 32 31
HHM	eP	18 31 24
	i	31 41
SIT	eP	18 29 59
TUT	eP	18 33 24
Nov. 24		
TUT	eP	18 38 49
Nov. 24		
EUR	eP	20 17 15
GCA	eP	20 16 35
	e	17 23
TUC	eP	20 17 13
TUT	eP	20 17 13
Nov. 24		
CSC	eP	20 59 05
Nov. 24		
HHM	e(P)	22 34 47
Nov. 25		
COL	eP	00 13 12
Nov. 25		
COL	e(P)	00 19 48
GCA	e(P)	00 19 12
	e	19 25
TUT	eP	00 19 15
Nov. 25		
FGU	eP	02 49 04
TUT	eP	02 47 34
Nov. 25		
EUR	eP	03 37 42
FGU	iP	03 37 29
GCA	eP	03 37 14

Date and Station		Phase (GCT)
		h m s
SJP	e(P)	03 34 06
TUC	iP	03 36 42
TUT	iP	03 36 43
Nov. 25		
COL	eP	05 51 22
EUR	eP	05 47 39
FGU	eP	05 47 33
	i	47 35
TUC	eP	05 46 57
TUT	eP	05 46 58
Nov. 25		
COL	e(P)	07 05 55
Nov. 25		
COL	e(P)	09 44 13
Nov. 25		
FGU	eP	09 47 41
TUC	eP	09 45 52
TUT	eP	09 45 52
Nov. 25		
FGU	eP	10 49 02
Nov. 25		
SLC	e(P)	12 17 03
Nov. 25		
BUT	eP	12 20 42
Nov. 25		
COL	e(P)	17 55 30
Nov. 25		
COL	e(P)	18 27 29
Nov. 25		
GCA	e(P)	21 33 24
	e	34 06
Nov. 25		
BCN	eP	22 06 04
BOZ	eP	22 05 30
BUT	iP	22 05 36
COL	iP	22 02 45
EUR	iP	22 05 48
	ipP	06 12
GCA	iP	22 06 10
HHM	iP	22 05 22
SLC	iP	22 05 57

Date and Station		Phase (GCT)
		h m s
SIT	eP	22 03 43
THU	iP	22 04 35
	epP	04 57
	ePcP	04 17
	eS	13 03
TUC	iP	22 06 30
	i	07 55
	e	09 26
TUT	iP	22 06 30
Nov. 25		
GCA	e(P)	22 32 16
Nov. 25		
COL	eP	22 47 21
EUR	iP	22 50 41
TUC	eP	22 52 10
	e	52 19
Nov. 25		
GCA	eP	23 06 43
Nov. 26		
GCA	eP	00 31 46
Nov. 26		
COL	i(P)	02 56 08
Nov. 26		
GCA	e(P)	04 58 26
	e	58 40
TUC	eP	04 59 07
	e	59 13
	e	59 50
Nov. 26		
COL	eP	07 41 38
Nov. 26		
BOZ	iP	07 48 41
BUT	eP	07 48 35
COL	iP	07 45 48
EUR	iP	07 48 46
	ipP	49 00
FGU	iP	07 49 02
HHM	iP	07 48 22
SLC	eP	07 48 57
TUC	iP	07 49 28
	epP	49 42
	e	50 41
Nov. 26		
GCA	eP	09 02 01

Date and Station		Phase	(GCT)
			h m s
Nov. 26			
GCA		iP	09 49 09
Nov. 26			
FGU		eP	12 21 45
Nov. 26			
COL		iP	12 31 29
		i	31 48
EUR		e(P)	12 32 08
		ipP	32 23
Nov. 26			
COL		iP	14 48 07
TUC		eP	14 47 33
Nov. 26			
COL		eP	15 52 33
Nov. 26			
HHM		iP	16 08 16
Nov. 26			
HHM		eP	16 44 50
Nov. 26			
COL		iP	16 49 35
EUR		iP	16 52 55
		i	53 11
HHM		eP	16 52 26
		iPcP	54 58
THU		eP	16 53 36
TUC		eP	16 54 04
Nov. 26			
HHM		eP	17 26 04
Nov. 26			
COL		e(P)	18 08 38
Nov. 26			
COL		eP'	18 40 59
Nov. 26			
COL		e(P)	19 50 49
Nov. 26			
COL		iP	21 48 46
EUR		eP	21 48 15
GCA		e(P)	21 48 17
HHM		eP	21 48 50
TUC		eP	21 48 12
		e	48 18
Nov. 26			
HHM		eP	21 58 41

Date and Station		Phase	(GCT)
			h m s
Nov. 26			
FGU		iP	22 06 02
		i	06 26
Nov. 26			
SLC		e(P)	23 02 17
		e	03 00
Nov. 27			
CSC		e(P)	00 40 38
FGU		iP	00 42 17
Nov. 27			
EUR		eP	01 50 11
FGU		eP	01 49 57
		i	52 07
HHM		eP	01 50 50
SJP		eP	01 46 31
Nov. 27			
FGU		e(P)	06 22 58
		e	22 37
Nov. 27			
EUR		eP	07 30 48
GCA		eP	07 32 58
TUC		eP	07 30 49
Nov. 27			
GCA		eP	08 54 24
Nov. 27			
COL		e(P)	10 49 33
HHM		iP	10 51 31
Nov. 27			
BOZ		iP	12 06 11
BUT		eP	12 06 02
		epP	06 30
COL		iP	12 01 05
EUR		iP	12 06 38
		ipP	07 07
		eScP	12 58
FGU		iP	12 06 50
		ipP	07 19
		iPcP	09 30
		iScP	13 02
GCA		iP	12 07 11
HHM		iP	12 05 40
		ipP	06 08
		iScP	12 37
SLC		iP	12 06 43

Date and Station		Phase	(GCT)
			h m s
SIT		iP	12 02 45
		iS	04 28
		eL	04 33
TUC		iP	12 07 49
		e	08 27
Nov. 27			
GCA		iP	12 38 02
		e	38 25
Nov. 27			
COL		iP	13 22 40
Nov. 27			
COL		iP	13 40 32
Nov. 27			
FGU		e(P)	15 17 39
Nov. 27			
BCN		eP	15 28 44
BOZ		iP	15 28 19
BUT		eP	15 28 12
COL		iP	15 25 11
EUR		iP	15 28 27
		ipP	28 50
FGU		iP	15 28 42
GCA		iP	15 28 51
		i	28 18
HHM		iP	15 27 58
SLC		iP	15 28 36
SIT		eP	15 26 12
		e	26 36
TUC		iP	15 29 13
		epP	29 37
Nov. 27			
EUR		e(P)	17 13 12
Nov. 27			
BUT		eP	21 37 27
EUR		iP	21 37 07
		e	37 34
GCA		eP	21 36 22
HHM		i(P)	21 37 46
SJP		e(P)	21 34 13
TUC		iP	21 36 23
Nov. 27			
COL		iP	22 19 32

Date and Station		Phase	(GCT)
			h m s
EUR		iP	22 19 01
GCA		eP	22 19 10
HHM		eP	22 19 32
Nov. 28			
GCA		eP	04 14 50
Nov. 28			
EUR		eP	04 55 54
Nov. 28			
COL		eP	05 24 51
HHM		eP	05 25 44
Nov. 28			
COL		iP	05 40 18
EUR		eP	05 40 46
HHM		eP	05 39 43
SJP		eP	05 40 57
Nov. 28			
EUR		eP	09 14 40
TUC		eP	09 14 40
		e	14 46
Nov. 28			
EUR		iP	11 27 16
Nov. 28			
BCN		eP	13 28 04
EUR		eP	13 28 38
GCA		eP	13 28 52
Nov. 28			
COL		e(P)	14 06 51
Nov. 28			
COL		e(P)	17 53 15
Nov. 28			
GCA		eP	18 36 37
		e	36 48
		e	37 47
Nov. 28			
BCN		eP	19 57 46
BOZ		eP	19 56 49
COL		iP	19 57 17
EUR		eP	19 57 35
GCA		eP	19 57 29
HHM		iP	19 56 49
THU		eP	19 53 58

Date and Station		Phase (GCT)
		h m s
Nov. 28		
EUR	eP	20 50 11
Nov. 28		
EUR	eP	20 56 12
Nov. 28		
COL	iP	21 16 51
EUR	eP	21 16 10
GCA	eP	21 16 03
HHM	e(P)	21 16 49
Nov. 28		
EUR	eP	23 16 27
HHM	eP	23 16 07
Nov. 28		
TUT	e(P)	23 43 04
Nov. 29		
TUT	eP	00 44 26
Nov. 29		
COL	iP	02 20 49
EUR	eP	02 21 25
Nov. 29		
TUT	eP	03 44 21
Nov. 29		
GCA	eP	05 44 52
Nov. 29		
EUR	eP	08 52 25
Nov. 29		
BCN	e(P)	09 44 46
EUR	iP	09 45 00
GCA	iP	09 44 48
HHM	eP	09 45 32
SJP	eP	09 42 20
TUC	iP	09 44 23
Nov. 29		
BOZ	eP	14 19 56
BUT	eP	14 19 50
COL	iP	14 17 27
EUR	iP	14 20 01
GCA	eP	14 20 15
HHM	iP	14 19 40
SLC	iP	14 20 08
TUC	eP	14 20 35

Date and Station		Phase (GCT)
		h m s
Nov. 29		
COL	e(P)	16 46 56
Nov. 29		
EUR	iP	19 27 59
GCA	iP	19 27 35
	i	28 23
HHM	e(P)	19 28 33
TUT	eP	19 27 08
Nov. 29		
GCA	eP	20 04 24
	i	04 53
	i	05 19
	i	07 36
Nov. 29		
COL	eP	20 17 40
EUR	eP	20 21 04
HHM	eP	20 20 34
Nov. 29		
HHM	iP	22 03 19
TUT	iP	22 02 05
Nov. 29		
TUT	e(P)	22 58 12
Nov. 30		
GCA	iP	00 43 23
Nov. 30		
COL	eP	01 51 13
HHM	eP	01 54 08
Nov. 30		
GCA	e(P)	04 14 37
Nov. 30		
BCN	e(P)	10 12 06
BOZ	eP	10 11 07
BUT	eP	10 12 04
EUR	iP	10 10 33
GCA	eP	10 11 14
	e	12 17
HHM	e(P)	10 11 36
	e(S)	13 08
	eL	13 22
SLC	iP	10 10 11
	e	10 30
Nov. 30		
FGU	eP	11 46 47
	iS	47 08

Date and Station		Phase (GCT)
		h m s
Nov. 30		
COL	eP	13 25 26
Nov. 30		
COL	eP	13 58 29
EUR	eP	14 01 49
HHM	e(P)	14 01 18
Nov. 30		
HHM	e(P)	16 16 18
Nov. 30		
GCA	eP	16 34 53
Nov. 30		
GCA	eP	16 38 24
Nov. 30		
COL	e(P)	17 16 07
Nov. 30		
HHM	i(P)	18 52 07
Nov. 30		
HHM	eP	19 01 44
Nov. 30		
SLC	iP	20 34 18
	eS	34 54
	eL	35 39
Nov. 30		
TUT	e(P)	22 51 38
Nov. 30		
HHM	e(P)	23 41 13

Date and Station		Phase (GCT)
		h m s

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
November	
COL	
2	22.9
4	07.8
5	16.3
10	01.2
	08.6
11	18.5
	18.6
12	01.4
	11.4
	17.0
13	18.1
	23.7
14	07.4
15	17.1
16	04.6
	10.8
18	10.7
	16.0
	19.5
	21.3
20	02.0
21	20.8
	21.3
22	20.2
23	11.7
25	02.7
	14.7
26	23.9
28	03.3
	18.2
30	13.1
EUR	
2	05.6
3	00.0
	08.9
6	10.6
10	07.9
11	00.3
14	02.8
	21.0
17	23.7
18	10.7
	14.0
	22.8
21	22.1
23	06.0
	23.6
	23.7
25	09.1
26	13.3
27	23.9
29	17.1
30	20.6
GUA	
2	09.1
4	24.8
13	06.7
16	11.5
19	12.3
HON	
23	02.8
HHM	
2	10.5
3	20.8
	21.8
6	01.5
8	11.2
	23.3
9	12.7
11	00.1
12	08.2
16	02.1
	15.0
20	03.8
21	11.8
29	11.8
30	14.0
SJP	
1	17.3
13	19.9
20	06.5
	18.3
21	01.9
22	06.6
24	04.6
26	02.4
	07.1
28	21.3
TUC	
2	14.6
3	02.6
	09.5
5	22.8
6	08.8
10	22.9
11	06.7
	08.7
	14.1
12	23.6
13	07.9
14	03.9
15	02.4
17	07.0
18	13.0
19	12.5
20	17.2
21	07.6
22	01.8
	05.8
23	10.7
27	22.0
28	07.9
29	05.6
	05.7
	05.8
TUT	
3	07.5
5	16.0
10	18.3
	21.9
15	21.0
18	22.0
19	17.6
	22.0
	23.1
20	15.8
	21.9
22	05.9
	06.1
23	21.9
24	10.5