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U. S. DEPARTMENT OF COMMERCE

Lewis L. Strauss, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1958

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

**Balboa Heights, C. Z. (BH)
The Panama Canal Co.
*Boulder City, Nev. (BC)
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. (COLU)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
Kipapa, T. H. (KIP)
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Philadelphia, Pa. (PHIL)
The Franklin Institute
**Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Tucson, Ariz. Telemeter (TUC-T)
Ukiah, Calif. (UK)
International Latitude Observatory
Washington, D. C. (WASH)

*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, 1958 the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicates error of one quarter minute. All origin times and locations are determined from P data only. For Pasadena epicenters the time is given in one-tenth minute.

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.

Tucson telemeter is located 9 miles northeast of Tucson at 32°20.1' North, 110°43.4' West. It was established in December 1957 to serve as an outpost station.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	°	°	
1	03 38 35*	3 S.	150 E.	Bismarck Sea. Felt at Kavieng, New Ireland. Mag. 6¼ - 6½.
1	06 06 47*	3½ S.	145½ E.	Off north coast of New Guinea.
1	06 15 54**			New Guinea aftershock.
1	12 08 21*	17½ S.	168 E.	New Hebrides Islands foreshock.
1	12 15 43*	17½ S.	169 E.	do.
1	12 16 36*	17½ S.	168 E.	New Hebrides Islands. Mag. 6 - 6¼.
1	15 50 10*	17½ S.	168 E.	New Hebrides Islands aftershock.
1	17 25 45*	15½ S.	169 E.	New Hebrides Islands.
1	19 26 09*	18 S.	168½ E.	New Hebrides Islands aftershock.
2	10 44 47*	51½ N.	175 W.	Andreanof Islands, Aleutian Islands.
2	18 59 43*	16 N.	99 W.	Near coast of Guerrero, Mexico.
3	04 00 30*	31 S.	177½ W.	Kermadec Islands.
3	14 31 35*	30 N.	84½ E.	Tibet.
4	00 24 24*	6 S.	147½ E.	Near north coast of New Guinea.
4	08 28 28*	28 N.	140½ E.	Bonin Islands region.
4	08 31 00*	28 N.	141 E.	do.
4	09 16 44*	7 N.	73 W.	Colombia. h about 150 km.
4	19 55 11*	11 S.	166 E.	Santa Cruz Islands.
4	22 54 46*	50 S.	115 W.	South Pacific Ocean. Mag. 6.
4	23 34 50*	17½ S.	168 E.	New Hebrides Islands aftershock.
5	04 27 50*	17 S.	168 E.	do.
5	08 00 11*	19½ S.	69 W.	Northern Chile. h about 150 km.
5	12 59 39*	14½ S.	175½ W.	Samoa Islands region.
5	15 47 25*	58 N.	154 W.	Kodiak Island, Alaska. h about 60 km.
6	15 30 06*	6 S.	128 E.	Banda Sea. h about 250 km.
6	22 58 06*	44½ N.	148½ E.	Kurile Islands. Minor Seismic Sea Wave. h about 60 km. Mag. 8 - 8¼.
7	00 36 12*	44 N.	149 E.	Kurile Islands aftershock.
7	01 01 58*	44 N.	148½ E.	do.
7	01 13 52*	45 N.	149 E.	Kurile Islands aftershock. h about 60 km.
7	01 42 56*	44½ N.	149½ E.	Kurile Islands aftershock.
7	01 55 33*	44½ N.	149 E.	do.
7	02 50 54*	44½ N.	149½ E.	Kurile Islands aftershock. h about 60 km.
7	04 59 56*	44½ N.	149 E.	do.
7	07 40 36*	44½ N.	149 E.	Kurile Islands aftershock.
7	10 29 17*	44 N.	148 E.	do.
7	11 24 25*	44½ N.	149½ E.	Kurile Islands aftershock. h about 60 km.
7	17 32 48*	44 N.	148½ E.	do.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	°	°	
7	19 14 31*	44½ N.	149½ E.	Kurile Islands aftershock.
7	21 33 24*	37 N.	122 W.	Near coast of California. Felt at Hollister and San Francisco. Mag. 4¼ (Berk).
8	02 41 09*	38½ N.	88 W.	Illinois-Indiana border. Felt in Illinois, Indiana, Kentucky, and Missouri.
8	09 22 53*	52 N.	159½ E.	Off southeast coast of Kamchatka.
8	12 08 30*	44½ N.	149 E.	Kurile Islands.
8	19 36 48*	11½ N.	93 E.	Andaman Islands.
9	03 14 47*	44 N.	148½ E.	Kurile Islands afterhsock.
9	10 17 30*	44½ N.	150 E.	do.
9	14 33 17*	44 N.	148 E.	do.
9	17 52 52*	44 N.	148 E.	do.
9	21 04 46*	44 N.	148 E.	do.
10	06 58 00**			Pacific Ocean foreshock.
10	11 13 05*	9 S.	110 W.	Pacific Ocean.
11	22 37 46*	22 S.	69 W.	Near coast of northern Chile.
12	03 58 21*	19½ N.	122 E.	Off north coast of Luzon, Philippine Islands. Felt at Aparri and Calayan.
12	06 09 10*	9½ N.	70 W.	Venezuela.
12	10 39 47*	7 S.	156 E.	Solomon Islands. h about 100 km.
12	17 44 11*	44 N.	148½ E.	Kurile Islands afterhsock.
12	18 36 49*	44 N.	149 E.	do.
12	20 23 26*	44½ N.	148½ E.	Kurile Islands aftershock. Felt on Hokkaido and northern Honshu, Japan. Mag. 6-3/4 - 7.
12	21 23 20*	44 N.	148½ E.	Kurile Islands aftershock.
12	22 59 36*	45 N.	149½ E.	do.
12	23 32 00*	44 N.	149 E.	do.
13	02 56 26*	44 N.	148½ E.	do.
13	04 04 37*	44½ N.	148 E.	do.
13	05 09 35**			do.
13	05 59 53*	43½ N.	139 E.	Off west coast of Hokkaido, Japan.
13	08 31 40*	15 S.	167½ E.	New Hebrides Islands.
13	09 06 18*	9½ N.	70 W.	Venezuela.
13	10 55 56**			Kurile Islands aftershock.
13	16 16 25*	9 N.	93½ E.	Nicobar Islands.
13	18 34 22*	44 N.	148 E.	Kurile Islands aftershock.
13	23 08 50**			do.
14	05 04 25*	36 S.	102 W.	South Pacific Ocean.
14	05 34 53*	44 N.	149 E.	Kurile Islands aftershock.

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Nov.	h m s	°		°		
14	05 46 34*	14½	N.	91½	W.	Guatemala. Felt at San Salvador. h about 150 km.
14	13 48 20*	6	S.	131	E.	Banda Sea.
14	15 22 16*	13	N.	86	W.	Nicaragua. Felt at Managua. h about 100 km.
15	05 42 42*	38	N.	22½	E.	Southern Greece. Felt.
15	09 00 45*	44	N.	149	E.	Kurile Islands aftershock. Mag. 6½ - 6-3/4.
15	09 53 55*	44½	N.	146½	E.	Kurile Islands aftershock.
15	19 15 03*	15½	S.	172½	W.	Samoa Islands region.
15	22 18 57*	44½	N.	110½	W.	Wyoming.
15	23 20 18*	44	N.	148	E.	Kurile Islands aftershock.
16	04 47 31*	44½	N.	149	E.	do.
16	05 40 46*	44½	N.	149	E.	do.
16	06 15 36*	44	N.	148½	E.	Kurile Islands aftershock. h about 60 km.
16	10 20 21**					Kurile Islands aftershock.
16	17 44 48*	16	S.	172	W.	Samoa Islands region. Felt at Apia. Mag. 6¼.
16	18 02 25*	20	S.	169	E.	Loyalty Islands.
16	20 23 56*	42	N.	106	E.	Outer Mongolia-China border.
16	21 12 24*	44½	N.	147½	E.	Kurile Islands aftershock.
16	21 46 00*	28	N.	139½	E.	Bonin Islands. h about 500 km.
16	22 41 15*	5	N.	83	W.	Pacific Ocean, south of Panama.
17	09 46 30*	10½	S.	162½	E.	Solomon Islands.
17	15 34 23*	44½	N.	148½	E.	Kurile Islands aftershock.
17	18 44 49*	20½	S.	169	E.	Loyalty Islands.
18	07 45 20*	50½	N.	179	E.	Andreanof Islands, Aleutian Islands.
18	07 56 31*	51½	N.	178½	E.	Aleutian Islands aftershock.
18	07 59 48**					do.
18	18 33 00*	44	N.	149	E.	Kurile Islands aftershock.
19	01 35 06*	27½	S.	63½	W.	Santiago del Estero Province, Argentina. h about 600 km.
19	03 08 54*	44	N.	149	E.	Kurile Islands aftershock.
19	03 53 56*	31	S.	179	W.	Kermadec Islands.
19	05 18 52*	43½	N.	148½	E.	Kurile Islands aftershock.
19	09 23 51*	44	N.	149	E.	Kurile Islands aftershock. h about 60 km.
19	15 02 15*	60½	N.	150½	W.	Kenai Peninsula, Alaska. h about 60 km.
19	19 30 18**					Fiji Islands.
20	05 36 33*	52	N.	159½	E.	Off east coast of Kamchatka.
20	06 31 20*	44	N.	149	E.	Kurile Islands aftershock.
20	14 18 04*	45	N.	149½	E.	Kurile Islands aftershock. h about 60 km.
20	23 03 40*	52	N.	177	W.	Andreanof Islands, Aleutian Islands.

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Nov.	h m s	°		°		
21	01 41 43*	48½	N.	146½	E.	Off coast of Sakhalin. h about 400 km.
21	23 33 36*	6	S.	151½	E.	New Britain. h about 60 km.
22	00 04 20*	10½	S.	112½	E.	South of Java.
22	01 56 56*	4	S.	131½	E.	Ceram Island region.
23	03 20 52*	2½	S.	79	W.	Ecuador.
23	20 15 48*	29	N.	87	E.	Southern Tibet.
23	22 19 23*	51	N.	175½	W.	Andreanof Islands, Aleutian Islands.
23	23 37 30*	51½	N.	174½	W.	do.
24	06 48 57*	57½	S.	65½	W.	Drake Passage.
24	17 42 20*	8	N.	127	E.	Near east coast of Mindanao, Philippine Islands.
24	22 26 56*	17½	N.	61	W.	Leeward Islands. Felt on Antigua and St. John's.
25	02 23 57*	43	N.	½	W.	Southwestern France. Slight damage in Pyrenees region.
25	09 12 54*	36½	N.	141½	E.	Near east coast of Honshu, Japan.
25	13 14 10*	16½	S.	173	W.	Tonga Island region.
25	13 14 40*	10½	S.	113	E.	South of Java.
26	00 17 09	10½	S.	112½	E.	do.
26	09 13 37*	45	N.	149	E.	Kurile Islands aftershock.
27	13 41 47**					About 300 miles northeast of Balleny Islands.
29	03 34 47*	44½	N.	149	E.	Kurile Islands aftershock.
29	04 46 36*	28	S.	177½	W.	Kermadec Islands region.
30	01 32 41*	32	N.	137½	E.	South of Honshu, Japan. Mag. 6.
30	01 55 28*	32	N.	137½	E.	Honshu aftershock.

Date and Station		Phase (GCT)
		h m s
Nov. 1		
HH	eP	00 16 39
Nov. 1		
BOZ	eP	03 52 25
BUT	eP	03 52 24
	ePP	56 20
COL	iP	03 50 54
	iS	04 01 05
	eSS	06 14
	e	07 22
	e	09 03
	eL	11 55
COLU	eP'	03 57 41
EUR	eP	03 52 05
HONO	eP	03 48 22
	eS	56 15
	e	59 20
	eL	04 01 54
HH	iP	03 52 09
	e	55 29
	ePP	56 12
	e	04 17 19
KIP	eP	03 48 22
RC	eP	03 52 55
	e(P')	55 56
	ePP	57 11
SJ	eP'	03 58 10
TUC	eP	03 52 30
	e	52 38
	ePP	56 30
	eL	04 18 28
TUC-T	eP	03 52 31
	i	52 43
	eP'	55 50
	iPP	56 37
Nov. 1		
COL	eP	05 31 23
EUR	eP	05 34 59
HH	iP	05 34 26
	e	37 06
TUC	eP	05 36 05
	e	36 15
TUC-T	eP	05 36 04
	e	36 15
Nov. 1		
COL	eP	06 16 23
Nov. 1		
COL	iP	06 19 16
EUR	eP	06 20 31

Date and Station		Phase (GCT)
		h m s
HH	eP	06 20 39
SJ	eP'	06 26 30
Nov. 1		
COL	eP	06 28 20
EUR	eP	06 29 40
HH	eP	06 29 43
SJ	eP'	06 35 18
Nov. 1		
SJ	iP	08 39 00
Nov. 1		
EUR	eP	08 47 15
HH	e(P)	08 47 20
TUC	eP	08 46 35
TUC-T	iP	08 46 35
Nov. 1		
EUR	eP	09 32 50
Nov. 1		
COL	eP	12 21 18
EUR	eP	12 21 28
TUC	eP	12 21 35
TUC-T	eP	12 21 36
	e	21 48
Nov. 1		
COL	eP	12 28 37
EUR	iP	12 28 48
KIP	e(P)	12 25 50
TUC	eP	12 28 55
TUC-T	eP	12 28 55
Nov. 1		
COL	iP	12 29 31
	i	29 44
	iS	40 12
	eL	53 16
EUR	iP	12 29 43
HONO	e(P)	12 27 32
	eS	33 06
	eL	3[illegible] 22
HH	e(P)	12 30 04
TUC	iP	12 29 49
TUC-T	iP	12 29 49
	eL	56 46

Date and Station		Phase (GCT)
		h m s
Nov. 1		
EUR	eP	12 42 17
TUC	eP	12 42 24
TUC-T	iP	12 42 25
Nov. 1		
COL	e(P)	13 55 05
EUR	eP	13 57 00
Nov. 1		
EUR	e(P)	15 34 02
HH	eP	15 34 33
RC	iP	15 33 43
TUC-T	eP	15 33 09
Nov. 1		
EUR	iP	15 49 32
HH	iP	15 49 16
Nov. 1		
COL	eP	16 03 08
	eS	13 58
	eL	32 22
EUR	iP	16 03 21
	i	03 41
TUC	eP	16 03 27
TUC-T	iP	16 03 27
Nov. 1		
HH	e(P)	16 24 47
Nov. 1		
COL	eP	17 38 31
EUR	iP	17 38 45
TUC-T	eP	17 38 52
Nov. 1		
EUR	eP	17 42 17
Nov. 1		
EUR	eP	18 14 21
Nov. 1		
HH	e(P)	19 11 44
	e	13 30
Nov. 1		
COL	eP	19 39 05
EUR	iP	19 39 16
TUC	eP	19 39 23
TUC-T	eP	19 39 23
	e	41 42

Date and Station		Phase (GCT)
		h m s
Nov. 1		
EUR	eP	19 41 36
Nov. 1		
COL	iP	19 52 11
EUR	iP	19 51 38
HH	eP	19 52 09
TUC	iP	19 51 37
TUC-T	iP	19 51 37
Nov. 1		
HH	eP	21 03 15
Nov. 1		
EUR	eP	21 42 02
Nov. 2		
COL	iP	00 13 41
EUR	iP	00 17 21
TUC-T	eP	00 18 07
Nov. 2		
COL	eP	03 20 13
EUR	iP	03 23 32
HH	eP	03 23 02
TUC	eP	03 23 40
	e	23 49
TUC-T	iP	03 23 40
Nov. 2		
BUT	eP	05 22 11
COL	iP	05 28 41
Nov. 2		
EUR	eP	05 42 12
Nov. 2		
EUR	eP	08 12 09
Nov. 2		
COL	iP	09 26 28
HH	eP	09 27 51
Nov. 2		
EUR	eP	09 46 36
HH	e(P)	09 47 04
TUC	eP	09 46 37
TUC-T	eP	09 46 38
Nov. 2		
HH	eP	09 55 41
	eL	56 46

Date and Station		Phase (GCT)
		h m s
Nov. 2		
BC	eP	10 53 15
BOZ	eP	10 52 39
	e	52 51
BUT	eP	10 52 30
COL	eP	10 49 17
	iP	49 19
	e(S)	53 06
	eL	54 40
COLU	eP	10 55 41
EUR	iP	10 52 43
HH	iP	10 52 12
	i	52 24
	iPcP	54 25
	e	58 12
KIP	eP	10 51 23
RC	eP	10 53 21
	e	59 23
SLC	eP	10 52 57
SJ	iP	10 57 36
TUC	iP	10 53 44
	eL	11 03 33
TUC-T	iP	10 53 44
	iL	11 03 25
Nov. 2		
TUC	eP	10 57 51
TUC-T	iP	10 57 52
HH	i(P)	11 00 19
EUR	eP	10 58 46
Nov. 2		
EUR	eP	11 15 37
Nov. 2		
EUR	eP	11 37 32
TUC	eP	11 36 15
TUC-T	eP	11 36 12
	e	36 18
Nov. 2		
COL	eP	12 28 04
EUR	eP	12 31 37
HH	eP	12 30 58
Nov. 2		
COL	eP	13 20 43
EUR	eP	13 24 08
		h m s
HH	iP	13 23 37
	e	25 55
TUC	eP	13 25 13
TUC-T	eP	13 25 13
Nov. 2		
EUR	eP	15 28 38
Nov. 2		
COL	eP	16 04 02
EUR	eP	16 03 12
HH	eP	16 03 49
KIP	eP	15 56 29
	e(S)	57 02
	iL	57 06
Nov. 2		
EUR	eP	16 09 54
Nov. 2		
BC	eP	19 05 10
BUT	eP	19 06 21
COL	iP	19 09 54
	iPcP	10 45
COLU	eP	19 05 13
EUR	eP	19 05 40
HH	eP	19 06 39
RC	e(P)	19 05 53
TUC	eP	19 04 17
	e	04 25
	eL	10 03
TUC-T	iP	19 04 18
	eL	10 03
Nov. 2		
EUR	e(P)	23 01 49
Nov. 2		
COL	iP	23 45 38
EUR	iP	23 46 32
Nov. 3		
EUR	eP	03 34 11
Nov. 3		
TUC	eP	03 58 13
TUC-T	eP	03 58 13
Nov. 3		
COL	eP	04 14 11
EUR	eP	04 13 35
		h m s
TUC	eP	04 13 28
	e	13 34
TUC-T	eP	04 13 29
	i	13 35
Nov. 3		
EUR	eP	06 09 54
HH	eP	06 10 33
Nov. 3		
EUR	eP	12 50 40
Nov. 3		
COL	iP	14 43 29
	ePP	46 16
EUR	eP'	14 50 25
HH	eP'	14 49 28
RC	eP'	14 50 08
Nov. 3		
EUR	iP	16 20 48
Nov. 3		
HH	e(P)	16 33 49
Nov. 3		
EUR	iP	16 50 31
HH	e(P)	16 49 57
RC	eP	16 51 11
Nov. 4		
EUR	eP	00 21 19
Nov. 4		
COL	eP	00 37 00
Nov. 4		
COL	eP	03 06 35
EUR	iP	03 10 09
TUC	eP	03 11 16
TUC-T	eP	03 11 15
Nov. 4		
BC	eP	08 41 05
BOZ	eP	08 40 52
BUT	iP	08 40 46
COL	iP	08 38 19
EUR	iP	08 40 51
HH	iP	08 40 34
RC	iP	08 41 51
SLC	iP	08 41 02
		h m s
TUC	iP	08 41 28
	e	42 04
TUC-T	iP	08 41 28
UK	eP	08 40 24
Nov. 4		
BC	eP	08 43 36
BOZ	eP	08 43 24
BUT	iP	08 43 17
COL	iP	08 40 49
	iS	48 44
	e	50 42
	eL	56 34
EUR	iP	08 43 22
HH	iP	08 43 06
RC	iP	08 43 50
SLC	iP	08 43 33
	e	44 09
TUC	eP	08 43 59
TUC-T	iP	08 43 58
UK	eP	08 42 55
Nov. 4		
BC	eP	09 25 13
BOZ	eP	09 25 34
COL	iP	09 28 26
	iPP	31 24
EUR	iP	09 25 30
HH	iP	09 25 56
RC	iP	09 24 53
	epP	25 30
SLC	eP	09 25 15
SJ	iP	09 19 50
	eS	22 10
TUC	iP	09 24 35
	e	25 36
TUC-T	iP	09 24 34
Nov. 4		
EUR	eP	13 50 04
Nov. 4		
COL	iP	17 07 19
Nov. 4		
BC	eP	20 08 04

Date and Station		Phase (GCT)
		h m s
COL	iP	20 07 39
	i	07 53
EUR	iP	20 08 03
HH	iP	20 08 20
TUC-T	eP	20 08 15
	e	08 26
Nov. 4		
HH	e(P)	22 23 52
Nov. 4		
HH	i(P)	22 41 52
Nov. 4		
BC	eP	23 07 29
BOZ	eP	23 08 15
COLU	eP	23 07 43
EUR	eP	23 07 44
SJ	e(P)	23 08 10
TUC	eP	23 07 09
	eL	34 07
TUC-T	iP	23 07 10
Nov. 4		
TUC-T	eP	23 21 13
Nov. 4		
COL	eP	23 47 47
EUR	iP	23 47 57
TUC-T	e(P)	23 48 03
	e	48 23
Nov. 5		
BC	eP	00 21 07
Nov. 5		
EUR	eP	03 45 19
Nov. 5		
EUR	eP	04 40 56
Nov. 5		
EUR	iP	05 58 04
HH	iP	05 57 35
Nov. 5		
EUR	iP	06 44 57
Nov. 5		
BC	eP	08 11 10
BOZ	eP	08 11 39
BUT	eP	08 11 43
EUR	iP	08 11 29
	ipP	12 00

Date and Station		Phase (GCT)
		h m s
HH	iP	08 11 58
	ipP	12 29
RC	eP	08 11 11
	ipP	11 43
SJ	eP	08 07 08
TUC	eP	08 10 37
	e	11 22
TUC-T	eP	08 10 37
	epP	11 08
Nov. 5		
COL	eP	12 54 02
EUR	iP	12 57 37
HH	iP	12 57 03
RC	eP	12 58 17
TUC	eP	12 58 43
	e	58 53
TUC-T	eP	12 58 43
Nov. 5		
HH	iP	12 59 51
Nov. 5		
COL	iP	13 12 02
EUR	eP	13 11 39
HH	e(P)	13 12 07
TUC	iP	13 11 41
	e	12 50
TUC-T	iP	13 11 41
Nov. 5		
BC	eP	15 54 24
BOZ	eP	15 53 37
COL	iP	15 49 16
	eS	50 36
	eL	51 07
EUR	eP	15 53 38
	ipP	53 55
HH	iP	15 52 51
	ipP	53 06
	isP	53 17
RC	eP	15 54 06
	ipP	54 23
TUC-T	eP	15 54 48
	ipP	55 06
Nov. 6		
EUR	eP	00 15 15
RC	eP	00 16 19

Date and Station		Phase (GCT)
		h m s
SLC	iP	00 14 35
	e	15 01
TUC	eP	00 16 17
	eL	17 53
TUC-T	eP	00 16 12
	eL	17 50
Nov. 6		
BC	eP	03 08 29
Nov. 6		
EUR	eP	08 22 03
HH	eP	08 22 30
TUC	eP	08 22 05
TUC-T	iP	08 22 05
Nov. 6		
EUR	iP	10 09 26
HH	eP	10 10 12
RC	eP	10 09 55
TUC	eP	10 08 39
TUC-T	eP	10 08 39
	i	08 41
Nov. 6		
COL	e(P)	10 11 51
EUR	eP	10 14 40
HH	iP	10 14 18
Nov. 6		
RC	eP	11 33 34
SJ	iP	11 26 22
TUC-T	eP	11 33 57
Nov. 6		
HH	e(P)	12 07 34
Nov. 6		
COL	eP	15 42 52
EUR	eP'	15 48 19
	ePKKP	59 04
HONO	iP	15 41 36
	esP	42 59
HH	iP'	15 48 16
	iPKKP	59 05
RC	eP	15 48 32
	ePKKP	58 37
TUC-T	iP	15 48 30
	ePKKP	58 47

Date and Station		Phase (GCT)
		h m s
Nov. 6		
RC	eP	16 15 15
Nov. 6		
EUR	eP	17 04 41
Nov. 6		
EUR	eP	20 01 18
Nov. 6		
EUR	e(P)	20 13 21
Nov. 6		
EUR	eP	21 35 04
TUC-T	eP	21 35 17
Nov. 6		
BOZ	iP	23 08 54C
BUT	eP	23 08 46D
COL	iP	23 05 40D
COLU	eP	23 11 05C
EUR	iP	23 09 00C
HONO	iP	23 06 57C
	iPP	09 13
	iS	14 08
	iL	18 20
	eT	59 23
	iT	00 00 07
	eT	05 04
HH	iP	23 08 32C
KIP	iP	23 06 57C
	eT	57 10
	iT	00 00 10
RC	iP	23 09 25C
SLC	eP	23 09 11C
SJ	iP	23 12 38D
	iPP	17 12
SIT	iP	23 06 41D
	iPPP	09 22
	eS	13 36
	eL	17 19
TUC	iP	23 09 48C
	iS	19 23
	eL	28 14
	eP' P'	37 24
TUC-T	iP	23 09 48C
UK	iP	23 08 30C
WASH	iP	23 10 54D
Nov. 6		
TUC	eP	23 25 58

Date and Station		Phase (GCT)
		h m s
Nov. 7		
COL	eP	00 43 55
EUR	eP	00 47 14
HH	iP	00 46 46
	iPP	48 30
	iPPP	50 02
KIP	eP	00 46 38
RC	iP	00 47 39
	i	49 26
TUC	iP	00 48 02
	ePPP	52 33
TUC-T	iP	00 48 03
Nov. 7		
RC	eP	01 04 48
TUC	eP	01 04 56
Nov. 7		
COL	iP	01 09 39
EUR	eP	01 12 56
HH	eP	01 12 28
RC	eP	01 13 21
	epP	13 35
TUC	eP	01 13 43
	epP	13 58
TUC-T	eP	01 13 44
	ipP	14 00
Nov. 7		
EUR	eP	01 15 51
TUC-T	eP	01 16 38
Nov. 7		
BUT	eP	01 24 25
COL	iP	01 21 20
EUR	eP	01 24 41
KIP	eP	01 22 50
HH	eP	01 24 14
RC	eP	01 25 05
	epP	25 18
TUC	eP	01 25 28
	ipP	25 43
TUC-T	eP	01 25 28
	ipP	25 43
Nov. 7		
BUT	eP	01 53 36
COL	iP	01 50 31

Date and Station		Phase (GCT)
		h m s
EUR	eP	01 53 50
HONO	eP	01 51 45
KIP	eP	01 51 44
RC	eP	01 54 16
TUC	e(P)	01 54 38
	iP	54 41
	ePP	57 38
TUC-T	eP	01 54 38
Nov. 7		
BOZ	e(P)	02 06 28
	iP	06 38
COL	iP	02 03 10
COLU	eP	02 08 50
EUR	eP	02 06 29
KIP	eP	02 04 25
HH	eP	02 05 57
RC	eP	02 06 55
	e	06 59
TUC	eP	02 07 1[illegible]
	e	07 32
TUC-T	eP	02 07 20
	i	07 31
Nov. 7		
COL	iP	02 16 56
EUR	eP	02 20 18
HH	eP	02 19 48
RC	eP	02 20 43
TUC	eP	02 21 05
TUC-T	eP	02 21 06
Nov. 7		
COL	iP	02 17 51
EUR	eP	02 21 13
HH	eP	02 20 43
RC	eP	02 21 37
TUC-T	iP	02 22 00
	i	22 14
Nov. 7		
COL	eP	02 24 30
EUR	eP	02 27 50
HH	eP	02 27 23

Date and Station		Phase (GCT)
		h m s
RC	eP	02 28 16
	epP	28 30
TUC	eP	02 28 40
TUC-T	eP	02 28 41
	epP	28 54
Nov. 7		
EUR	eP	02 30 35
Nov. 7		
COL	eP	02 32 06
EUR	eP	02 35 26
HH	eP	02 34 56
TUC	eP	02 36 15
TUC-T	e(P)	02 36 17
	e	36 30
Nov. 7		
COL	eP	02 43 17
EUR	eP	02 41 36
Nov. 7		
COL	iP	02 45 47
HH	eP	02 46 09
RC	eP	02 47 04
TUC	eP	02 47 40
TUC-T	eP	02 47 38
Nov. 7		
EUR	eP	02 49 15
HH	eP	02 48 37
RC	eP	02 49 30
	epP	49 42
TUC	eP	02 49 52
TUC-T	eP	02 49 53
	epP	50 05
Nov. 7		
EUR	eP	02 53 55
RC	e(P)	02 54 33
	e	54 37
TUC	eP	02 55 01
TUC-T	eP	02 54 54
Nov. 7		
BOZ	eP	03 01 37
BUT	eP	03 01 28
COL	iP	02 58 22

Date and Station		Phase (GCT)
		h m s
EUR	iP	03 01 41
HH	eP	03 01 14
	ipP	01 30
RC	eP	03 02 07
	epP	02 25
TUC	eP	03 02 30
	epP	02 49
	e	03 15
TUC-T	iP	03 02 30
Nov. 7		
COL	iP	03 26 13
	i	26 54
EUR	eP	03 29 31
	ipP	29 45
HH	eP	03 29 00
RC	eP	03 30 04
TUC	eP	03 30 20
	epP	30 33
TUC-T	eP	03 30 20
	epP	30 32
Nov. 7		
COL	iP	03 34 29
EUR	eP	03 37 49
HH	iP	03 37 21
	ipP	37 33
RC	eP	03 38 15
	epP	38 26
TUC	eP	03 38 38
	epP	38 50
TUC-T	eP	03 38 38
	epP	38 50
Nov. 7		
COL	iP	03 53 50
EUR	eP	03 57 09
Nov. 7		
EUR	eP	04 23 58
	epP	24 22
Nov. 7		
COL	iP	04 27 59
EUR	eP	04 30 18
	ipP	30 30
RC	eP	04 30 55
TUC	eP	04 31 05
	epP	31 18

Date and Station		Phase (GCT)
		h m s
TUC-T	eP	04 31 05
	epP	31 18
Nov. 7		
EUR	eP	04 36 41
Nov. 7		
BOZ	eP	05 10 42
	epP	10 55
BUT	eP	05 10 33
COL	iP	05 07 26
	eS	13 25
COLU	eP	05 12 53
EUR	iP	05 10 48
HH	iP	05 10 18
	ipP	10 32
	iPP	12 43
RC	iP	05 11 13
	epP	11 26
SLC	eP	05 10 56
TUC	eP	05 11 35
TUC-T	iP	05 11 35
Nov. 7		
HH	eP	05 15 46
	i	16 07
Nov. 7		
EUR	eP	05 43 12
Nov. 7		
COL	iP	05 54 49
EUR	iP	05 58 09
HH	iP	05 57 40
RC	eP	05 58 34
TUC	eP	05 58 56
TUC-T	iP	05 58 57
Nov. 7		
EUR	eP	06 04 37
Nov. 7		
EUR	eP	06 35 28
Nov. 7		
COL	iP	06 33 06
EUR	iP	06 36 24
HH	iP	06 35 56
RC	eP	06 36 50
TUC	eP	06 37 13
TUC-T	eP	06 37 13

Date and Station		Phase (GCT)
		h m s
Nov. 7		
EUR	eP	06 49 17
Nov. 7		
EUR	eP	06 56 00
Nov. 7		
COL	eP	07 11 38
EUR	eP	07 14 57
Nov. 7		
BOZ	eP	07 51 27
	epP	51 42
BUT	iP	07 51 19
COL	iP	07 48 14
EUR	iP	07 51 32
HH	iP	07 51 05
	i	51 43
KIP	eP	07 49 51
RC	iP	07 51 58
	e	52 23
SLC	eP	07 51 18
TUC	iP	07 52 21
TUC-T	iP	07 52 21
Nov. 7		
EUR	iP	07 58 26
	e	58 46
TUC	iP	07 58 28
	e	58 37
TUC-T	iP	07 58 29
	e	08 00 25
Nov. 7		
EUR	eP	08 10 39
Nov. 7		
COL	iP	08 23 36
EUR	eP	08 23 59
RC	eP	08 22 41
	e	24 28
TUC	eP	08 24 15
	e	24 21
TUC-T	eP	08 24 14
Nov. 7		
EUR	eP	08 37 13
Nov. 7		
COL	eP	08 36 53
EUR	eP	08 40 13
RC	eP	08 40 48

Date and Station		Phase (GCT)
		h m s
TUC	eP	08 41 09
TUC-T	eP	08 41 09
Nov. 7		
HH	iP	09 40 27
TUC	eP	09 41 43
TUC-T	eP	09 41 43
Nov. 7		
EUR	eP	10 00 30
Nov. 7		
COL	iP	09 57 11
EUR	eP	10 01 40
HH	eP	10 00 01
TUC	eP	10 01 18
TUC-T	eP	10 01 18
Nov. 7		
COL	eP	10 17 25
EUR	eP	10 20 41
HH	eP	10 20 16
	ipP	20 28
RC	eP	10 21 21
TUC	eP	10 21 45
TUC-T	eP	10 21 31
	epP	21 45
Nov. 7		
COL	iP	10 25 16
Nov. 7		
BOZ	eP	10 38 22
COL	iP	10 35 07
EUR	iP	10 38 27
	ipP	38 40
HH	iP	10 37 59
RC	eP	10 38 52
	epP	39 05
TUC	iP	10 39 15
	epP	39 32
TUC-T	iP	10 39 15
Nov. 7		
BOZ	eP	10 40 04
BUT	eP	10 40 06
COL	iP	10 37 03
EUR	iP	10 40 20

Date and Station		Phase (GCT)
		h m s
HH	iP	10 39 52
RC	iP	10 40 44
SLC	eP	10 40 12
TUC	iP	10 41 07
	e	41 23
TUC-T	iP	10 41 07
	e	41 21
Nov. 7		
EUR	eP	10 57 09
HH	eP	10 56 41
Nov. 7		
COL	iP	11 16 41
EUR	iP	11 20 01
HH	eP	11 19 32
	ipP	19 44
RC	eP	11 20 29
TUC	eP	11 20 48
TUC-T	eP	11 20 48
Nov. 7		
BOZ	eP	11 35 20
BUT	eP	11 35 12
COL	iP	11 31 55
	i	32 12
	e	37 42
EUR	eP	11 35 16
HH	iP	11 34 47
	ipP	35 00
	e	12 04 13
RC	eP	11 35 53
SLC	eP	11 34 12
TUC	eP	11 36 04
	epP	36 20
TUC-T	eP	11 36 04
	ipP	36 21
Nov. 7		
COL	iP	11 38 37
EUR	eP	11 41 58
HH	eP	11 41 31
RC	eP	11 42 23
TUC	eP	11 42 47
	epP	43 03

Date and Station		Phase	(GCT) h m s
TUC-T		eP	11 42 46
Nov. 7			
EUR		eP	14 01 34
HH		eP	14 01 06
		ipP	01 23
TUC-T		eP	14 02 22
		epP	02 35
Nov. 7			
EUR		eP	14 09 03
Nov. 7			
EUR		eP	14 25 05
Nov. 7			
COL		iP	14 23 23
EUR		eP	14 26 41
HH		eP	14 26 15
RC		eP	14 27 13
TUC-T		eP	14 27 41
Nov. 7			
COL		iP	14 32 13
EUR		iP	14 35 32
		ipP	35 45
HH		iP	14 35 03
		ipP	35 18
RC		eP	14 35 58
		epP	36 10
TUC		eP	14 36 21
		ipP	36 33
TUC-T		iP	14 36 20
		ipP	36 33
Nov. 7			
EUR		eP	15 38 25
TUC-T		eP	15 39 14
Nov. 7			
COL		eP	16 14 47
EUR		eP	16 18 24
		ipP	18 37
HH		e(P)	16 17 55
TUC-T		eP	16 19 40
Nov. 7			
EUR		eP	16 27 41
		i	27 51
TUC-T		e(P)	16 28 35
		e	28 40
Nov. 7			
EUR		eP	17 07 14
Nov. 7			
EUR		eP	17 19 31
Nov. 7			
EUR		eP	17 34 03
Nov. 7			
BC		eP	17 38 40
		eL	39 06
EUR		eP	17 39 13
		i	39 26
		iS	40 19
		iL	40 26
TUC		e(P)	17 39 55
		e(S)	40 56
		eL	41 12
TUC-T		eP	17 39 28
		e	39 53
		eL	41 10
Nov. 7			
BOZ		e(P)	17 43 38
BC		eP	17 44 02
COL		iP	17 40 [illegible]
		eS	46 31
		iS	46 5[illegible]
EUR		iP	17 43 43
HH		iP	17 43 15
		ipP	43 39
RC		eP	17 44 07
TUC		e(P)	17 44 44
TUC-T		eP	17 44 31
Nov. 7			
COL		eP	19 21 44
EUR		eP	19 25 17
Nov. 7			
BC		eP	19 25 44
BOZ		eP	19 25 20
BUT		eP	19 25 13
COL		iP	19 22 07
EUR		iP	19 25 24
HH		iP	19 24 56
		i	25 12
RC		eP	19 25 51
TUC		iP	19 26 14
TUC-T		iP	19 26 14
Nov. 7			
COL		eP	19 45 01
EUR		eP	19 44 12
Nov. 7			
BC		eP	20 37 12
COL		eP	20 37 21
		i	37 57
EUR		eP	20 36 29
HH		eP	20 37 40
TUC-T		eP	20 37 21
Nov. 7			
BC		eP	20 42 31
COL		iP	20 38 54
EUR		eP	20 42 12
HH		eP	20 41 43
TUC-T		eP	20 43 01
		e	46 32
Nov. 7			
COL		iP	20 41 26
Nov. 7			
COL		iP	20 45 13
EUR		eP	20 48 08
HH		eP	20 47 37
Nov. 7			
BC		e(P)	21 34 57
		e	35 11
		eL	36 32
EUR		eP	21 34 45
		iS	36 05
		iL	36 10
HH		e(P)	21 36 38
TUC-T		eP	21 35 54
UK		eP	21 34 03
		e	34 12
		eL	34 48
Nov. 7			
EUR		eP	22 20 15
Nov. 7			
BC		eP	23 17 37
COL		iP	23 13 17
EUR		iP	23 17 13
HH		eP	23 16 34
RC		eP	23 17 37
TUC		eP	23 18 11
TUC-T		eP	23 18 11
Nov. 7			
COL		eP	23 58 33
Nov. 8			
EUR		eP	00 01 52
TUC-T		eP	00 00 11
		e	02 53
Nov. 8			
EUR		e(P)	00 23 04
TUC-T		e(P)	00 24 42
		e	24 59
		e	25 10
Nov. 8			
EUR		e(P)	01 14 43
		e	14 56
Nov. 8			
EUR		eP	01 43 21
Nov. 8			
COLU		e(P)	02 43 13
		iL	44 54
EUR		eP	02 46 05
RC		e(P)	02 44 21
		eL	47 44
TUC		e(P)	02 45 43
		e	51 42
Nov. 8			
COL		iP	03 07 54
EUR		eP	03 09 58
Nov. 8			
EUR		eP	03 14 58
TUC		eP	03 12 58
TUC-T		eP	03 12 57
		e	13 07
Nov. 8			
COL		e(P)	05 28 31
		i	28 47
EUR		eP	05 31 42
Nov. 8			
EUR		eP	07 02 58
Nov. 8			
COL		iP	07 51 41
EUR		eP	07 55 00

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Date and Station		Phase (GCT)
		h m s
Nov. 8		
EUR	eP	08 39 35
TUC	eP	08 40 24
Nov. 8		
BC	eP	09 32 45
	eP' P'	10 02 35
BOZ	eP	09 32 33
BUT	eP	09 32 25
COL	iP	09 29 01
	iS	33 53
	e	35 28
	eL	36 23
	eP' P'	10 01 02
COLU	eP	09 35 01
EUR	iP	09 32 43
	eP' P'	10 01 57
HONO	eP	09 31 11
HH	iP	09 32 08
KIP	eP	09 31 08
RC	iP	09 33 07
	i	33 20
SLC	eP	09 32 53
	e	33 24
SIT	eP	09 30 14
TUC	iP	09 33 38
	i	33 47
	eP' P'	10 02 30
TUC-T	iP	09 33 38
	i	33 56
	iP' P'	10 02 22
UK	eP	09 32 15
	ePP	34 25
Nov. 8		
EUR	e(P)	09 43 02
SJ	eP	09 40 42
Nov. 8		
COL	iP	10 27 32
EUR	eP	10 30 55
Nov. 8		
EUR	eP	10 47 41
TUC	eP	10 46 54
TUC-T	eP	10 46 54
Nov. 8		
COL	eP	10 52 47

Date and Station		Phase (GCT)
		h m s
Nov. 8		
EUR	eP	11 14 53
Nov. 8		
COL	eP	11 24 15
	i	24 24
EUR	eP	11 27 30
RC	eP	11 28 02
	e	28 13
TUC	eP	11 28 20
TUC-T	eP	11 28 20
Nov. 8		
BC	iP	12 19 46
BOZ	eP	12 19 21
BUT	eP	12 19 12
COL	iP	12 16 09
EUR	iP	12 19 27
HH	iP	12 18 56
	i	19 34
RC	eP	12 19 52
	iP	19 53
	e	20 15
SLC	eP	12 19 37
TUC	iP	12 20 15
TUC-T	iP	12 20 15
Nov. 8		
COL	eP	13 03 15
EUR	iP	13 06 34
RC	eP	13 07 01
	e	07 13
Nov. 8		
HONO	eP	13 16 40
Nov. 8		
BC	eP	13 21 46
	e(S)	22 00
	eL	22 26
EUR	eP	13 22 23
Nov. 8		
COL	iP	13 24 21
	i	25 06
Nov. 8		
EUR	eP	13 36 15
Nov. 8		
COL	eP	13 44 55

Date and Station		Phase (GCT)
		h m s
EUR	iP	13 48 28
Nov. 8		
EUR	eP	14 56 26
Nov. 8		
COL	eP	15 17 44
EUR	eP	15 20 55
Nov. 8		
EUR	iP	16 08 36
Nov. 8		
COL	iP	17 22 42
EUR	eP	17 26 33
TUC	eP	17 27 33
TUC-T	eP	17 27 32
Nov. 8		
COL	eP	18 12 07
EUR	eP	18 15 27
Nov. 8		
EUR	eP	18 29 56
Nov. 8		
EUR	e(P)	18 50 13
RC	eP	18 50 58
Nov. 8		
COL	eP	19 49 59
EUR	iP'	19 56 00
SJ	eP'	19 56 24
	e	56 33
TUC	eP'	19 56 08
	ePP	59 32
TUC-T	eP	19 56 07
	iPP	59 30
Nov. 8		
RC	e(P)	20 14 45
	e	16 53
Nov. 8		
COL	iP	22 54 54
EUR	eP	22 58 14
Nov. 8		
RC	eP	23 50 02
	e	50 23
	e	51 44
Nov. 9		
COL	eP	00 10 16
EUR	eP	00 13 31

Date and Station		Phase (GCT)
		h m s
TUC	eP	00 14 00
TUC-T	eP	00 14 01
Nov. 9		
EUR	eP	00 35 57
Nov. 9		
COL	eP	00 54 08
EUR	eP	00 57 28
RC	eP	00 57 50
Nov. 9		
COL	eP	01 57 25
EUR	eP	02 00 43
Nov. 9		
RC	eP	02 54 24
Nov. 9		
BC	eP	03 26 05
	e	26 11
BUT	iP	03 25 34
COL	iP	03 22 28
EUR	iP	03 25 47
HH	iP	03 25 19
RC	iP	03 26 12
SLC	eP	03 25 57
TUC	iP	03 26 35
	e	26 45
TUC-T	iP	03 26 35
	i	26 49
Nov. 9		
EUR	eP	05 13 43
Nov. 9		
COL	iP	05 25 03
EUR	iP	05 28 23
HH	iP	05 27 55
TUC	eP	05 29 11
Nov. 9		
EUR	eP	06 35 20
Nov. 9		
COL	eP	07 10 10
Nov. 9		
COL	iP	08 11 37
	i	11 48
EUR	eP	08 15 37
	i	15 41

Date and Station		Phase	(GCT) h m s
RC		eP	08 15 48
Nov. 9 RC		eP	08 39 54
		e	39 59
Nov. 9 EUR		eP	09 25 36
Nov. 9 EUR		eP	09 38 42
Nov. 9 COL		iP	10 25 03
		i	25 16
EUR		eP	10 28 23
HH		eP	10 27 54
RC		eP	10 29 00
TUC		e(P)	10 29 27
TUC-T		eP	10 29 29
Nov. 9 BC		e(P)	10 30 23
COL		iP	10 26 45
EUR		eP	10 30 04
HH		iP	10 29 35
TUC		eP	10 30 53
TUC-T		eP	10 30 53
		e	31 04
Nov. 9 COL		eP	11 12 31
Nov. 9 COL		eP	12 11 41
EUR		eP	12 15 13
TUC		eP	12 16 14
TUC-T		eP	12 16 14
Nov. 9 COL		e(P)	14 08 29
		i	08 40
EUR		eP	14 12 00
Nov. 9 COL		iP	14 41 00
		i	41 11
EUR		iP	14 44 18
HH		eP	14 43 49
		i	44 00
RC		eP	14 44 55
TUC		eP	14 45 07
		e	45 18
TUC-T		eP	14 45 07
		e	45 18
Nov. 9 COL		iP	14 59 24
Nov. 9 BUT		eP	15 20 17
Nov. 9 COL		iP	15 47 27
EUR		eP	15 51 15
Nov. 9 COL		iP	16 23 24
Nov. 9 BC		eP	18 04 12
BOZ		eP	18 03 47
BUT		eP	18 03 40
COL		iP	18 00 36
EUR		iP	18 03 54
HH		iP	18 03 25
RC		iP	18 04 18
SIC		eP	18 04 03
TUC		iP	18 04 42
		e	04 55
TUC-T		iP	18 04 41
Nov. 9 BC		eP	21 16 05
COL		iP	21 12 29
EUR		iP	21 15 47
HH		eP	21 15 17
RC		eP	21 16 12
TUC		eP	21 16 35
TUC-T		iP	21 16 35
Nov. 9 SLC		eP	21 56 08
		i	56 33
Nov. 10 COL		eP	00 56 15
EUR		eP	00 59 34
Nov. 10 COL		iP	01 16 10
EUR		eP	01 19 29
Nov. 10 EUR		eP	04 15 05
TUC-T		eP	04 16 07
Nov. 10 COL		eP	05 41 28
EUR		eP	05 44 33
		e	44 58
Nov. 10 COL		eP	06 24 26
Nov. 10 EUR		eP	07 06 50
RC		eP	07 07 21
SJ		e(P)	07 07 22
TUC		eP	07 05 50
TUC-T		eP	07 05 50
Nov. 10 COL		eP	07 40 18
Nov. 10 BC		e(P)	11 21 27
BUT		eP	11 22 40
COL		eP	11 25 12
EUR		eP	11 21 54
RC		iP	11 22 29
SJ		eP	11 22 16
TUC		eP	11 20 55
		eL	33 07
TUC-T		eP	11 20 56
Nov. 10 COL		iP	12 12 03
		i	12 13
EUR		eP	12 15 23
Nov. 10 COL		iP	12 31 49
EUR		eP	12 35 08
Nov. 10 COL		eP	13 58 57
Nov. 10 COL		iP	15 03 22
Nov. 10 BOZ		eP	15 39 38
		e	40 16
EUR		eP	15 40 08
		i	40 19
		eL	41 21
Nov. 10 EUR		eP	19 21 20
Nov. 10 COL		iP	20 02 07
EUR		iP	20 04 46
Nov. 10 COL		eP	21 27 25
Nov. 10 COL		eP	23 24 50
EUR		eP	23 28 09
Nov. 11 COL		eP	00 38 12
EUR		eP	00 41 43
Nov. 11 SJ		eP	01 07 36
		eS	09 12
		eL	09 20
Nov. 11 COL		eP	02 23 22
EUR		eP	02 26 40
Nov. 11 COL		eP	03 59 25
EUR		eP	04 02 43
Nov. 11 EUR		eP	04 10 52
TUC		eP	04 11 46
		e	13 24
TUC-T		e(P)	04 11 40
		i	13 20
Nov. 11 EUR		eP	05 12 25
Nov. 11 SJ		eP	05 55 48
Nov. 11 HH		iP	10 06 48
Nov. 11 BOZ		e(P)	11 26 38
BUT		eP	11 26 43
COL		e(P)	11 30 28
EUR		eP	11 25 40
HH		e(P)	11 27 03

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Date and Station		Phase (GCT)
		h m s
RC	eP	11 26 27
SLC	eP	11 26 04
TUC	eP	11 24 07
	e	24 09
	e	24 22
	e	26 37
	eL	27 50
TUC-T	eP	11 24 06
	eL	28 15
Nov. 11		
EUR	eP	12 17 21
Nov. 11		
COL	iP	12 52 06
EUR	eP	12 55 22
HH	eP	12 54 55
Nov. 11		
EUR	eP	13 10 34
Nov. 11		
EUR	eP	13 12 58
TUC	eP	13 12 57
TUC-T	iP	13 12 57
Nov. 11		
BOZ	e(P)	13 56 30
COL	iP	13 53 18
EUR	iP	13 56 37
HH	iP	13 56 09
RC	iP	13 57 03
Nov. 11		
EUR	eP	14 13 24
	i	14 25
Nov. 11		
EUR	eP	17 32 37
Nov. 11		
COL	iP	18 00 13
EUR	eP	18 00 52
Nov. 11		
EUR	eP	18 03 32
Nov. 11		
EUR	e(P)	18 06 36
	eP	06 42
RC	eP	18 06 27
Nov. 11		
EUR	eP	19 14 07

Date and Station		Phase (GCT)
		h m s
Nov. 11		
EUR	eP	19 31 04
Nov. 11		
COL	iP	19 34 48
EUR	eP	19 38 07
Nov. 11		
COL	eP	19 39 25
EUR	eP	19 42 54
Nov. 11		
EUR	eP	19 50 53
TUC	e(P)	19 50 11
	e	50 16
TUC-T	eP	19 50 11
	i	50 16
Nov. 11		
COL	eP	21 59 51
EUR	eP	22 03 24
Nov. 11		
COL	e(P)	22 40 52
EUR	eP	22 43 35
HH	eP	22 43 18
RC	eP	22 44 07
Nov. 11		
BUT	eP	22 49 51
COL	eP	22 53 15
EUR	eP	22 49 30
	i	49 40
HH	eP	22 50 02
RC	eP	22 49 27
SJ	eP	22 45 25
TUC	eP	22 48 49
TUC-T	iP	22 48 50
Nov. 11		
EUR	eP	22 56 34
Nov. 11		
EUR	iP	23 13 18
Nov. 12		
EUR	eP	01 31 05
Nov. 12		
EUR	eP	03 14 32
Nov. 12		
EUR	eP	04 07 14

Date and Station		Phase (GCT)
		h m s
Nov. 12		
COL	eP	04 09 53
EUR	iP	04 11 55
HH	iP	04 11 55
TUC	eP	04 11 52
Nov. 12		
HH	eP	05 22 22
Nov. 12		
BH	eP	06 11 27
	iS	13 14
BOZ	eP	06 18 13
BUT	eP	06 18 23
COL	eP	06 21 04
COLU	eP	06 14 53
	iP	14 58
EUR	iP	06 18 14
HH	eP	06 18 36
RC	eP	06 17 28
	ePcP	19 18
SLC	eP	06 17 58
SJ	iP	06 11 31
	iS	13 14
	eL	13 57
TUC	eP	06 17 24
	e	17 27
TUC-T	eP	06 17 24
Nov. 12		
COL	iP	09 55 26
	i	55 38
	iS	56 24
	iL	56 30
EUR	eP	10 01 24
Nov. 12		
HH	iP	10 43 55
SJ	eP	10 43 35
Nov. 12		
COL	iP	10 52 04
	ipP	52 30
EUR	iP	10 52 55
	ipP	53 25
HONO	iP	10 49 03
	e(T)	11 44 42
	et	45 47
HH	e(P)	10 53 05

Date and Station		Phase (GCT)
		h m s
KIP	eP	10 49 04
Nov. 12		
COL	eP	12 45 47
EUR	iP	12 49 04
HH	eP	12 48 37
Nov. 12		
EUR	iP	12 56 34
Nov. 12		
EUR	eP	15 29 19
HH	iP	15 29 00
Nov. 12		
EUR	eP	16 13 36
TUC	eP	16 13 53
TUC-T	iP	16 13 35
Nov. 12		
COL	iP	17 51 53
EUR	iP	17 55 11
	i	55 23
HH	eP	17 54 44
RC	eP	17 55 37
	e	55 48
TUC-T	eP	17 56 11
Nov. 12		
EUR	eP	18 27 17
TUC-T	eP	18 27 14
	e	27 30
Nov. 12		
COL	eP	18 44 29
EUR	iP	18 47 47
Nov. 12		
EUR	eP	18 59 07
Nov. 12		
COL	eP	19 24 02
EUR	eP	19 27 23
HH	e(P)	19 27 10
Nov. 12		
BH	iP	20 41 10
BC	eP	20 34 42C
	e	34 54
	e(S)	43 54
	eL	50 07
BOZ	eP	20 34 15D
	e(PcP)	35 06

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Date and Station		Phase (GCT) h m s
BOZ	eP' P'	21 02 47
BUT	eP	20 34 09C
COL	iP	20 31 04C
	ePP	32 36
	e(PcP)	33 30
	iS	37 14
	eL	40 28
COLU	eP	20 36 29
EUR	iP	20 34 23C
	iPP	37 15
	i	38 07
	eP' P'	21 02 10
	iP' P'	02 50
HONO	e(P)	20 32 20
	iP	32 22C
	i	32 35
	eS	39 24
	eL	43 59
HH	iP	20 33 55C
	iP' P'	21 03 02
KIP	e(P)	20 32 18
	iP	32 21D
	i	32 37
RC	iP	20 34 48C
	eS	44 03
	eL	50 07
SLC	eP	20 34 34C
	e	35 16
	eP' P'	21 02 46
TUC	iP	20 35 11C
	i	35 36
	ePP	38 16
	eS	44 44
	eL	53 25
TUC-T	iP	20 35 11
UK	eP	20 33 57C
	iP	34 00D
Nov. 12		
COL	iP	21 30 58
	i	31 08
EUR	iP	21 34 16
HH	eP	21 33 49
Nov. 12		
EUR	eP	22 16 54
Nov. 12		
BC	eP	23 10 58
COL	iP	23 07 05
COLU	eP	23 12 47

Date and Station		Phase (GCT) h m s
EUR	iP	23 10 26
HH	eP	23 10 00
RC	eP	23 10 51
	e	11 05
TUC-T	iP	23 11 28
Nov. 12		
COL	iP	23 39 40
	i	39 53
EUR	eP	23 42 58
HH	eP	23 42 35
TUC-T	eP	23 43 46
Nov. 13		
COL	eP	00 16 53
EUR	eP	00 20 18
Nov. 13		
COL	eP	00 35 54
EUR	eP	00 39 12
Nov. 13		
COL	eP	01 14 [illegible]
EUR	eP	01 18 [illegible]
Nov. 13		
BC	eP	03 07 44
BOZ	eP	03 07 18
	e	07 31
BUT	eP	03 07 12
COL	iP	03 04 07
	i	04 16
EUR	iP	03 07 25
	i	07 38
HH	eP	03 06 54
	eP' P'	36 01
RC	eP	03 07 50
	e	08 04
TUC	eP	03 08 13
TUC-T	eP	03 08 12
Nov. 13		
BC	eP	04 15 56
	e	16 07
BUT	eP	04 15 23
COL	iP	04 12 17
	iS	18 22
	e	21 28
	eL	23 16

Date and Station		Phase (GCT) h m s
COLU	eP	04 17 41
	e	17 50
EUR	iP	04 15 36
	i	15 48
	eP' P'	43 07
HH	iP	04 15 09
	i	15 21
	iP' P'	44 09
RC	iP	04 16 02
	i	16 14
	eP' P'	44 00
SLC	eP	04 15 48
TUC	iP	04 16 24
	e	16 36
	eL	40 39
TUC-T	iP	04 16 24
Nov. 13		
COL	iP	04 39 49
	i	40 01
Nov. 13		
BC	eP	05 21 05
COL	eP	05 17 15
	i	17 25
EUR	iP	05 20 33
	i	20 45
HH	eP	05 20 06
RC	eP	05 21 11
TUC	eP	05 21 22
	i	21 34
TUC-T	iP	05 21 34
Nov. 13		
BC	eP	06 11 48
COL	iP	06 08 12
EUR	eP	06 11 29
HH	iP	06 11 01
RC	eP	06 11 50
	iP	11 51
SLC	eP	06 11 40
TUC	eP	06 12 15
	iP	12 16
TUC-T	eP	06 12 15
	iP	12 16
	ePP	15 32
Nov. 13		
EUR	eP	06 25 45

Date and Station		Phase (GCT) h m s
Nov. 13		
COL	eP	08 04 07
Nov. 13		
COL	eP	08 44 28
EUR	eP	08 44 53
Nov. 13		
BH	eP	09 08 42
	eS	12 17
BC	eP	09 15 09
BOZ	eP	09 15 25
COL	eP	09 18 13
COLU	eP	09 12 06
EUR	iP	09 15 23
HH	eP	09 15 46
RC	eP	09 14 38
	ePcP	16 27
SLC	eP	09 15 08
SJ	iP	09 08 42
	iS	10 24
	eL	11 00
TUC	eP	09 14 32
	e	14 37
TUC-T	eP	09 14 32
	i	14 34
Nov. 13		
COL	eP	09 40 56
Nov. 13		
COL	iP	10 01 33
EUR	iP	10 04 52
Nov. 13		
COL	eP	10 46 58
Nov. 13		
COL	eP	11 03 40
EUR	eP	11 06 57
HH	iP	11 06 41
RC	eP	11 07 34
Nov. 13		
COL	iP	15 37 10
	iS	37 20
	iL	37 25
Nov. 13		
EUR	eP	16 18 55
Nov. 13		
COL	eP	16 29 44

Date and Station		Phase (GCT)
		h m s
COL	iPP	16 33 32
EUR	eP'	16 35 28
	i	35 54
	ePP	37 18
	e(SKKP)	48 42
RC	eP'	16 35 28
SJ	eP'	16 36 08
TUC	ePP	16 39 04
TUC-T	eP'	16 35 45
	iPP	39 04
Nov. 13		
COL	eP	17 33 00
EUR	iP	17 36 18
Nov. 13		
EUR	eP	18 35 52
Nov. 13		
BC	eP	18 45 41
COL	iP	18 42 04
EUR	iP	18 45 22
HH	iP	18 44 54
RC	eP	18 45 48
TUC-T	eP	18 46 09
	e	46 23
Nov. 13		
HH	e(P)	20 15 39
Nov. 13		
HH	eP	21 25 33
Nov. 13		
COL	eP	21 44 47
EUR	eP	21 48 05
Nov. 13		
BH	iP	21 47 17
	iS	47 27
Nov. 13		
COL	eP	22 23 46
EUR	eP	22 27 06
Nov. 13		
COL	eP	23 16 30
EUR	eP	23 19 48
SLC	eP	23 20 25
	e	20 52
Nov. 13		
COL	eP	23 56 06

Date and Station		Phase (GCT)
		h m s
EUR	iP	23 59 02
TUC	eP	23 59 44
TUC-T	eP	23 59 44
Nov. 14		
EUR	e(P)	01 56 28
Nov. 14		
EUR	eP	02 11 58
Nov. 14		
TUC-T	eP	03 40 54
Nov. 14		
BC	eP	05 15 57
BUT	eP	05 16 47
COLU	eP	05 16 13
EUR	e(P)	05 16 14
	iP	16 18
HH	eP	05 17 00
RC	eP	05 16 39
	i	16 48
TUC	eP	05 15 28
	iP	15 32
TUC-T	eP	05 15 30
	iP	15 32
Nov. 14		
BC	eP	05 46 08
	e	46 19
BUT	eP	05 45 35
COL	iP	05 42 30
	eS	48 35
	eL	51 48
COLU	eP	05 47 55
EUR	iP	05 45 49
HH	iP	05 45 22
	eP' P'	06 14 35
RC	iP	05 46 15
	i	46 28
SLC	eP	05 46 00
SJ	eP	05 52 17
TUC	iP	05 46 38
	i	46 50
TUC-T	iP	05 46 37
	i	46 49
Nov. 14		
BH	iP	05 49 10

Date and Station		Phase (GCT)
		h m s
BC	iP	05 52 34
	e	52 42
	eScP	55 48
BUT	eP	05 53 28
COL	iP	05 56 50
	iPcP	57 07
	ipP	57 27
COLU	eP	05 51 18
	e(pP)	51 23
	e	52 09
EUR	iP	05 53 01
	iScP	59 23
	ipScP	59 57
HH	iP	05 53 48
	iPcP	55 58
	iScP	59 43
RC	eP	05 52 46
	epP	53 12
SLC	eP	05 52 44
TUC	iP	05 51 49
	epP	52 15
	e(S)	56 30
	eScP	58 59
	eL	59 32
TUC-T	iP	05 51 49
	eScP	58 58
	eL	59 32
Nov. 14		
COL	eP	06 57 20
EUR	eP	07 00 30
Nov. 14		
SIT	eP	07 43 31
Nov. 14		
COL	eP	09 00 08
EUR	e(P)	09 03 24
	eP	03 37
Nov. 14		
COL	eP	11 30 20
Nov. 14		
COL	e(P)	12 02 13
	i	02 23
Nov. 14		
BH	iP'	14 08 10
	ePP	10 15
BC	eP'	14 07 04
BOZ	eP'	14 07 05
BUT	eP'	14 06 48

Date and Station		Phase (GCT)
		h m s
COL	iP	14 01 30
	eS	12 32
	ePS	13 18
	eSS	18 50
	ePKKP	19 02
	eSSS	23 04
	eL	26 11
	eP' P'	27 25
COLU	eP'	14 07 45
	e	07 54
EUR	eP	14 03 02
	iPP	06 59
	ePKKP	17 55
	ipPKKP	18 32
HONO	iP	14 00 01
HH	eP	14 03 00
	ePP	06 57
	ePKKP	17 58
KIP	eP	14 00 03
	ipP	00 37
RC	iP'	14 07 13
	e	17 57
SJ	iP'	14 08 24
	e	09 00
TUC	eP'	14 07 11
	epP'	07 40
	iPP	08 41
	ePKKP	17 38
TUC-T	eP'	14 07 10
	epP'	07 40
	ePP	08 41
Nov. 14		
BH	iP	15 24 00
	iS	25 32
BC	eP	15 29 01
BOZ	eP	15 29 41
BUT	eP	15 29 47
COL	iP	15 33 01
COLU	eP	15 27 07
EUR	eP	15 29 26
HH	iP	15 30 06
RC	eP	15 29 02
SLC	eP	15 29 12
SJ	eP	15 26 51
TUC	eP	15 28 21
TUC-T	iP	15 28 19

Date and Station		Phase	(GCT) h m s
TUC-T		i	15 28 33
Nov. 14			
RC		iP	16 07 13
Nov. 14			
TUC-T		e(P)	17 00 08
Nov. 14			
BOZ		eP	21 11 18
Nov. 14			
COL		eP	21 42 07
Nov. 15			
COL		iP	00 23 28
		i	23 37
EUR		eP	00 26 45
HH		eP	00 26 26
RC		eP	00 27 21
TUC		eP	00 27 43
TUC-T		eP	00 27 43
Nov. 15			
EUR		eP	01 17 21
Nov. 15			
EUR		eP	04 37 29
Nov. 15			
EUR		eP	04 42 23
Nov. 15			
TUC		eP	05 06 53
Nov. 15			
BOZ		eP	05 55 29
COL		iP	05 54 37
		i	54 48
		i	54 56
COLU		eP	05 54 46
		e	55 04
EUR		eP	05 56 02
		i	56 17
		ePP	59 34
HH		iP	05 55 21
		i	55 40
RC		eP	05 55 17
		i	55 35
TUC		eP	05 56 25
TUC-T		e(P)	05 56 19
		e	56 29
		ePP	06 00 17
Nov. 15			
COL		iP	07 56 10
		i	56 21
EUR		iP	07 59 28
RC		eP	08 01 55
Nov. 15			
BOZ		eP	08 14 40
BUT		eP	08 14 53
HH		e(P)	08 16 39
Nov. 15			
BC		eP	09 12 02
		e	12 30
BOZ		eP	09 11 37
		e	12 00
BUT		eP	09 11 29
		e	11 53
COL		iP	09 08 25
		eS	14 24
		e	14 55
		eL	17 26
COLU		eP	09 13 48
EUR		iP	09 11 42
HONO		e(P)	09 10 05
HH		iP	09 11 14
		eP' P'	40 18
KIP		eP	09 10 03
RC		eP	09 12 07
		iP	12 09
		e	12 30
SLC		eP	09 11 54
		e	12 15
TUC		iP	09 12 31
TUC-T		eP	09 12 30
		iP	12 31
		i	12 53
		i	13 24
Nov. 15			
COL		iP	09 18 00
EUR		eP	09 21 13
HH		eP	09 20 55
RC		eP	09 21 50
Nov. 15			
COL		iP	10 00 32
		i	00 41
EUR		eP	10 03 51
		i	04 01
HH		eP	10 03 22
RC		eP	10 04 18
		e	04 24
TUC		eP	10 04 40
		e	04 47
TUC-T		eP	10 04 41
		e	04 47
Nov. 15			
COL		iP	11 54 17
Nov. 15			
EUR		eP	14 38 02
Nov. 15			
EUR		eP	17 47 55
Nov. 15			
COL		eP	18 24 12
EUR		eP	18 27 41
Nov. 15			
COL		iP	18 49 06
Nov. 15			
BOZ		eP	19 27 30
BUT		eP	19 27 26
COL		iP	19 27 26
EUR		eP	19 26 55
HH		eP	19 27 27
RC		eP	19 27 56
Nov. 15			
COL		eP	20 10 45
Nov. 15			
BOZ		eP	22 19 18
		e(S)	19 38
		eL	19 47
BUT		eP	22 19 31
		e(S)	19 46
		eL	20 02
EUR		eP	22 20 33
HH		eP	22 20 06
		i	20 21
		iS	21 21
		iL	21 25
RC		eP	22 20 16
		e	20 37
		eL	21 38
SLC		eP	22 20 01
		eS	20 21
		eL	20 46
Nov. 15			
BUT		eP	22 41 38
EUR		eP	22 44 47
TUC		eP	22 45 47
Nov. 15			
COL		iP	23 28 01
EUR		iP	23 31 18
HH		eP	23 30 50
RC		eP	23 31 48
		e	31 54
Nov. 16			
BC		eP	00 17 09
		e	18 05
EUR		iP	00 17 42
		iL	19 45
TUC		e(P)	00 17 09
		e	17 21
		eL	18 19
Nov. 16			
EUR		eP	00 50 47
Nov. 16			
BC		eP	04 58 45
BOZ		e(P)	04 58 22
BUT		eP	04 58 30
COL		iP	04 55 08
COLU		e(P)	05 00 40
EUR		iP	04 58 26
HH		iP	04 56 58
RC		e(P)	04 58 54
		eP	58 59
		e	05 03 00
TUC		eP	04 59 14
Nov. 16			
COL		iP	04 59 13
EUR		iP	05 02 30
Nov. 16			
COL		iP	05 48 25
EUR		iP	05 51 42
		i	51 55
HH		eP	05 51 15
RC		eP	05 52 09
		e	52 21
TUC		eP	05 52 32

Date and Station		Phase (GCT)
		h m s
Nov. 16		
EUR	e(P)	05 59 02
HH	e(P)	06 01 16
Nov. 16		
BC	eP	06 26 43
BOZ	eP	06 26 19
BUT	eP	06 26 22
COL	iP	06 23 06
	i	23 20
EUR	iP	06 26 25
HH	iP	06 25 57
RC	eP	06 26 50
	e	27 03
SLC	eP	06 26 40
TUC	eP	06 27 13
	e	27 28
Nov. 16		
BC	eP	09 35 13
	e	35 26
EUR	iP	09 35 36
	i	35 59
	i	36 05
	iS	36 43
	iL	37 08
Nov. 16		
COL	iP	10 08 31
Nov. 16		
COL	iP	10 27 56
EUR	iP	10 31 16
HH	iP	10 30 48
RC	eP	10 31 41
Nov. 16		
EUR	eP	12 27 14
Nov. 16		
COL	iP	15 38 40
EUR	eP	15 42 20
Nov. 16		
RC	eP	17 56 29
BOZ	eP	17 57 12
BUT	eP	17 57 08
	e	57 32
COL	iP	17 57 13
EUR	iP	17 56 37
	i	56 56
	i	57 50

Date and Station		Phase (GCT)
		h m s
HH	iP	17 57 09
RC	iP	17 57 32
SLC	eP	17 56 56
TUC	iP	17 56 36
	e	56 53
	eL	18 17 08
TUC-T	eP	17 56 37
UK	eP	17 56 13
Nov. 16		
COL	e(P)	18 15 22
EUR	eP	18 15 36
TUC	eP	18 15 42
Nov. 16		
EUR	eP	19 38 01
Nov. 16		
RC	eP	19 48 34
Nov. 16		
COL	iP	20 33 58
EUR	eP	20 37 00
HH	iP	20 36 25
RC	eP	20 36 59
Nov. 16		
COL	iP	21 20 06
EUR	iP	21 23 23
Nov. 16		
BUT	eP	21 59 24
COL	eP	21 55 07
	epP	56 50
EUR	eP	21 57 37
	ipP	59 28
HH	iP	21 57 20
	epP	59 11
Nov. 16		
BH	iP	22 42 30
	iS	43 51
COL	eP	22 53 00
	e	53 22
COLU	eP	22 47 16
EUR	eP	22 49 39
HH	eP	22 50 17
RC	eP	22 49 15
SJ	iP	22 46 02

Date and Station		Phase (GCT)
		h m s
TUC-T	iP	22 48 36
	e	48 55
Nov. 17		
RC	e(P)	01 25 23
Nov. 17		
COL	eP	03 52 31
EUR	iP	03 55 51
HH	iP	03 55 23
Nov. 17		
BC	eP	09 59 38
BOZ	eP	10 00 00
BUT	eP	09 59 53
COL	iP	09 59 02
EUR	iP	09 59 36
HH	iP	09 59 51
RC	eP	10 00 31
SLC	e(P)	09 59 54
TUC	eP	09 59 49
	e	59 54
TUC-T	iP	09 59 50
Nov. 17		
COL	eP	13 18 36
EUR	eP	13 21 43
Nov. 17		
BOZ	eP	15 45 13
BUT	eP	15 45 07
COL	iP	15 42 02
	i	42 14
EUR	iP	15 45 20
HH	iP	15 44 52
	i	45 20
RC	eP	15 45 45
	e	45 58
TUC	eP	15 46 08
TUC-T	eP	15 46 08
	e	46 20
Nov. 17		
COL	eP	16 28 49
	e	29 14
EUR	e(P)	16 34 10
Nov. 17		
COL	eP	17 08 03

Date and Station		Phase (GCT)
		h m s
EUR	iP	17 07 30
Nov. 17		
COL	iP	18 16 14
	i	16 23
EUR	iP	18 19 32
Nov. 17		
COL	eP	18 57 58
EUR	iP	18 58 01
TUC-T	eP	18 58 07
Nov. 17		
TUC-T	eP	20 59 18
Nov. 17		
EUR	eP	21 44 29
Nov. 17		
BC	eP	23 54 05
Nov. 18		
EUR	iP	03 24 39
Nov. 18		
COL	eP	05 07 02
Nov. 18		
BC	eP	07 54 07
Nov. 18		
BOZ	eP	07 53 38
BUT	eP	07 53 29
COL	eP	07 50 15
	iP	50 16
	eS	54 20
	iS	54 37
	e	55 15
	eL	56 20
COLU	eP	07 56 33
EUR	iP	07 53 43
	i	54 01
	i	54 51
HH	iP	07 53 12
	e(S)	59 27
RC	iP	07 54 21
	e	55 09
SLC	eP	07 53 58
	e	54 08
SJ	iP	07 53 24
	i	59 12
	e	59 27
TUC	iP	07 54 43
	e	54 55
	ePoP	55 32
	eL	08 15 20

Date and Station	Phase	Phase (GCT) h m s
TUC-T	iP	07 54 43
	i	54 50
	ePcP	55 31
UK	eP	07 53 18
	e	54 27
Nov. 18		
COL	iP	07 59 52
EUR	iP	08 03 20
HH	eP	08 02 49
Nov. 18		
BC	eP	08 05 24
COL	iP	08 01 27
EUR	iP	08 04 55
HH	iP	08 04 23
RC	eP	08 05 40
SJ	iP	08 09 36
TUC	eP	08 05 54
	e	06 06
TUC-T	eP	08 06 02
	e	06 06
Nov. 18		
COL	iP	08 04 44
EUR	iP	08 08 11
	i	08 26
HH	iP	08 07 41
SJ	eP	08 12 52
TUC	e(P)	08 09 15
TUC-T	eP	08 09 11
Nov. 18		
EUR	eP	10 03 26
Nov. 18		
EUR	e(P)	13 55 08
	e	55 56
Nov. 18		
EUR	eP	14 34 29
Nov. 18		
COL	eP	15 05 01
	i	05 10
EUR	eP	15 08 16
Nov. 18		
EUR	eP	16 14 51
HH	iP	16 14 20
RC	eP	16 15 34
Nov. 18		
EUR	eP	16 34 43
HH	e(P)	16 31 19
Nov. 18		
BOZ	eP	18 44 09
COL	eP	18 40 38
EUR	eP	18 43 57
	i	44 15
HH	eP	18 43 37
RC	eP	18 44 29
	i	44 41
TUC	e(P)	18 44 48
TUC-T	eP	18 44 58
	e	45 04
Nov. 18		
COL	iP	23 28 04
Nov. 19		
BC	eP	01 46 18
BOZ	eP	01 46 44
BUT	eP	01 46 48
COL	iP'	01 52 38
	i	53 17
	iPP	53 34
COLU	iP	01 44 43
EUR	iP	01 46 34
	ipP	48 36
	iPKKP	02 04 52
HH	iP	01 46 59
RC	iP	01 46 19
SLC	iP	01 46 27
SJ	iP	01 42 36
	ipP	44 04
TUC	iP	01 45 51
TUC-T	iP	01 45 51
Nov. 19		
COL	eP	03 16 32
EUR	eP	03 19 51
	i	20 07
RC	eP	03 20 29
Nov. 19		
COL	eP	04 07 37
EUR	iP	04 07 05
TUC	iP	04 07 02
	e	07 21
	e	08 27
TUC-T	iP	04 07 03
Nov. 19		
COL	iP	05 26 37
EUR	iP	05 29 54
HH	iP	05 29 27
RC	eP	05 30 19
TUC	eP	05 30 43
TUC-T	eP	05 30 42
Nov. 19		
COL	iP	05 32 23
HH	iP	05 31 00
Nov. 19		
EUR	iP	05 36 04
Nov. 19		
COL	iP	07 34 22
EUR	eP	07 37 39
Nov. 19		
COL	iP	07 45 16
EUR	eP	07 44 39
TUC	eP	07 44 39
TUC-T	eP	07 44 39
Nov. 19		
BC	eP	09 35 02
	epP	35 15
BOZ	eP	09 34 37
	ipP	34 51
BUT	eP	09 34 30
COL	iP	09 31 25
	ipP	31 37
	eS	37 30
	eL	40 32
COLU	eP	09 36 49
	epP	37 02
EUR	iP	09 34 43
	ipP	35 03
HH	iP	09 34 16
	ipP	34 29
KIP	e(P)	09 32 39
	ipP	32 52
RC	iP	09 34 09
	ipP	34 23
SLC	iP	09 34 54
	epP	35 07
SIT	eP	09 32 25
TUC	iP	09 35 31
	ipP	35 45
TUC-T	iP	09 35 31
	ipP	35 45
	i	36 22
UK	iP	09 34 29
Nov. 19		
EUR	eP	10 12 48
RC	eP	10 14 31
Nov. 19		
COL	eP	11 31 13
Nov. 19		
COL	iP	12 42 24
EUR	eP	12 45 42
	i	45 55
HH	eP	12 45 15
Nov. 19		
COL	iP	13 13 03
Nov. 19		
BC	eP	15 08 54
BOZ	eP	15 08 01
	epP	08 14
BUT	eP	15 07 53
COL	iP	15 03 27
	iS	04 09
	iL	04 20
COLU	eP	15 11 16
EUR	iP	15 08 24
	ipP	08 39
HH	iP	15 07 31
RC	eP	15 07 45
	epP	07 59
SLC	eP	15 08 31
SJ	eP	15 13 31
TUC	eP	15 09 36
TUC-T	iP	15 09 36
	ipP	09 50
	iPcP	11 48
Nov. 19		
EUR	iP	15 11 23

Date and Station		Phase (GCT)
		h m s
HH	iP	15 11 08
Nov. 19		
EUR	eP	15 15 00
Nov. 19		
HH	eP	16 57 38
Nov. 19		
HH	e(P)	17 00 26
Nov. 19		
HH	e(P)	17 11 28
Nov. 19		
COL	iP	17 37 43
Nov. 19		
COL	iP	18 46 23
Nov. 19		
COL	iP	18 49 58
EUR	eP	18 45 33
Nov. 19		
COL	iP	19 42 54
EUR	eP	19 42 37
HH	eP	19 43 03
TUC-T	iP	19 42 39
Nov. 19		
RC	e(P)	20 49 21
Nov. 19		
COL	iP	21 00 21
Nov. 19		
HH	e(P)	21 29 42
Nov. 19		
HH	e(P)	22 42 45
Nov. 19		
HH	eP	23 16 53
Nov. 20		
TUC	eP	00 04 12
	e	04 32
TUC-T	e(P)	00 04 04
Nov. 20		
TUC	iP	01 53 07
TUC-T	iP	01 53 08
Nov. 20		
BC	eP	05 46 47
BOZ	eP	05 46 15
BUT	e(P)	05 46 08
COL	iP	05 42 39

Date and Station		Phase (GCT)
		h m s
COL	eS	05 47 33
	e	49 04
	eL	50 00
COLU	eP	05 48 40
	e	48 55
EUR	iP	05 46 23
HH	iP	05 45 51
RC	eP	05 46 50
SLC	eP	05 46 37
TUC	eP	05 47 27
	e	47 36
TUC-T	eP	05 47 27
Nov. 20		
COL	eP	06 38 58
EUR	eP	06 42 18
HH	eP	06 41 50
RC	eP	06 42 51
	e	45 50
	e	46 08
TUC	eP	06 43 07
Nov. 20		
COL	eP	06 42 04
EUR	eP	06 45 25
HH	eP	06 44 57
TUC	eP	06 46 15
TUC-T	e(P)	06 46 16
	e	46 33
Nov. 20		
COL	eP	06 53 13
EUR	eP	06 56 31
Nov. 20		
EUR	eP	07 46 29
Nov. 20		
COL	eP	10 04 05
Nov. 20		
EUR	eP	10 53 31
RC	eP	10 53 57
Nov. 20		
COL	e(P)	11 50 15
Nov. 20		
EUR	eP	12 38 44
Nov. 20		
COL	eP	14 22 29

Date and Station		Phase (GCT)
		h m s
HH	eP	14 24 36
Nov. 20		
BC	eP	14 29 09
	epP	29 22
BOZ	eP	14 28 42
	epP	28 56
BUT	eP	14 28 36
COL	iP	14 25 30
	e(S)	31 24
	e	31 44
	eL	34 30
EUR	iP	14 28 49
	ipP	29 02
HH	iP	14 28 21
	ipP	28 34
RC	iP	14 28 15
	ipP	28 28
SLC	eP	14 29 00
	epP	29 12
TUC	iP	14 29 38
	ipP	29 51
	e(ScP)	32 32
TUC-T	iP	14 29 38
	ipP	29 51
	e(ScP)	32 37
UK	eP	14 28 22
	ipP	28 35
Nov. 20		
COL	eP	17 48 56
EUR	eP	17 52 05
TUC-T	eP	17 53 09
Nov. 20		
COL	iP	20 39 45
HH	e(P)	20 38 35
Nov. 20		
HH	e(P)	21 27 58
Nov. 20		
BC	eP	23 12 06
BOZ	eP	23 11 38
COL	iP	23 08 15
	i	08 28
EUR	iP	23 11 44
HH	iP	23 11 12
	i	13 19
RC	iP	23 12 21

Date and Station		Phase (GCT)
		h m s
TUC	eP	23 12 44
TUC-T	eP	23 12 44
	e	12 53
Nov. 21		
BC	eP	01 52 10
BUT	eP	01 51 35
COL	iP	01 48 26
EUR	iP	01 51 51
HH	iP	01 51 20
RC	iP	01 52 13
TUC	eP	01 52 40
TUC-T	iP	01 52 39
Nov. 21		
HH	i(P)	02 33 39
Nov. 21		
COL	iP	05 11 19
Nov. 21		
COL	eP	07 38 39
Nov. 21		
TUC-T	eP	07 58 41
Nov. 21		
COL	iP	08 28 30
EUR	e(P)	08 28 18
Nov. 21		
COL	eP	09 51 49
Nov. 21		
COL	iP	10 02 46
HH	e(P)	10 01 56
Nov. 21		
HH	iP	12 32 47
	i	32 51
Nov. 21		
HH	iP	12 34 41
	i	34 45
Nov. 21		
COL	eP	14 29 23
EUR	e(P)	14 28 58
Nov. 21		
COL	iP	15 05 30
EUR	eP	15 08 50
Nov. 21		
RC	eP	16 06 35

Date and Station		Phase	(GCT)
			h m s
Nov. 21			
EUR		eP	20 09 00
		e	09 32
Nov. 21			
EUR		iP	20 34 08
Nov. 21			
COLU		eP	23 14 37
Nov. 21			
COL		eP	23 45 59
EUR		eP	23 47 01
Nov. 22			
BC		eP'	00 23 36
BOZ		eP'	00 23 34
BUT		eP'	00 23 31
COLU		eP'	00 24 17
		e	24 25
EUR		iP'	00 23 32
		e(PP)	25 27
HH		iP'	00 23 28
		i(PP)	25 19
RC		e(PP)	00 26 13
SLC		eP'	00 23 37
TUC		eP'	00 23 47
		ePP	26 24
TUC-T		eP'	00 23 36
		e	23 48
		ePP	26 16
		e	26 44
Nov. 22			
COL		eP	02 10 03
EUR		e(P)	02 11 46
		eP'	15 25
		iPP	16 17
HH		e(P')	02 16 07
RC		eP'	02 15 57
		ePP	17 11
TUC-T		e(P')	02 16 08
Nov. 22			
EUR		eP	02 26 36
Nov. 22			
COL		iP	05 02 34
EUR		iP	05 05 53
HH		iP	05 05 25
Nov. 22			
COL		eP	07 06 56
Nov. 22			h m s
EUR		iP	09 01 06
		e	01 27
TUC		eP	09 01 03
TUC-T		eP	09 01 04
Nov. 22			
TUC		eP	12 10 17
TUC-T		eP	12 10 16
Nov. 22			
COL		eP	13 58 52
Nov. 22			
TUC-T		e(P)	15 48 00
Nov. 22			
COL		iP	18 43 10
		iS	44 20
		iL	44 30
Nov. 22			
EUR		iP	20 55 59
HH		e(P)	20 56 22
		e	57 06
TUC-T		eP	20 55 03
		e	55 22
Nov. 22			
COL		eP	21 05 10
EUR		eP	21 07 21
Nov. 22			
TUC		eP	22 24 55
TUC-T		eP	22 24 52
Nov. 22			
COL		iP	22 52 14
		i	52 26
EUR		iP	22 55 35
Nov. 23			
HH		eP	01 41 25
Nov. 23			
EUR		eP	02 12 58
		e	16 18
Nov. 23			
EUR		eP	03 01 10
TUC		e(P)	03 01 22
TUC-T		eP	03 01 17
Nov. 23			
HH		eP	03 20 20
Nov. 23			
COL		eP	03 33 47
			h m s
EUR		eP	03 30 08
HH		eP	03 30 59
SJ		iP	03 26 10
		i	26 35
TUC		eP	03 29 19
TUC-T		eP	03 29 19
		i	29 46
Nov. 23			
COL		iP	04 08 36
EUR		e(P)	04 11 55
Nov. 23			
EUR		iP	05 18 07
		eL	24 35
RC		eP	05 18 15
		eL	25 16
TUC		eP	05 16 24
		e	16 44
		eL	20 13
TUC-T		eP	05 16 24
		e	16 27
		e	17 23
		eL	20 18
Nov. 23			
SLC		eP	09 40 41
Nov. 23			
EUR		eP	11 10 10
Nov. 23			
COL		eP	12 06 13
EUR		iP	12 09 02
HH		iP	12 08 40
Nov. 23			
COL		iP	13 19 21
RC		eP	13 20 19
Nov. 23			
EUR		eP	13 50 46
Nov. 23			
COL		iP	13 50 07
EUR		iP	13 53 24
HH		eP	13 53 09
Nov. 23			
COL		iP	14 15 47
		e	16 39
EUR		eP	14 16 04
		e	16 59
Nov. 23			h m s
COL		eP	15 56 35
Nov. 23			
EUR		eP	18 11 33
HH		i(P)	18 11 12
Nov. 23			
BOZ		e(P)	18 33 08
COL		eP	18 30 22
EUR		iP	18 33 05
HH		iP	18 32 47
SLC		e(P)	18 33 16
TUC		eP	18 33 44
TUC-T		eP	18 33 44
Nov. 23			
COL		eP	18 40 00
Nov. 23			
HH		iP	19 32 29
Nov. 23			
COL		iP	20 27 46
		ePP	30 43
Nov. 23			
COL		iP	20 33 05
Nov. 23			
EUR		iP	21 01 33
HH		iP	21 02 02
TUC		eP	21 00 47
TUC-T		eP	21 00 46
Nov. 23			
BC		eP	22 27 40
BOZ		eP	22 27 15
COL		iP	22 23 53
COLU		eP	22 30 29
EUR		iP	22 27 17
		i	27 31
HH		iP	22 26 48
		i	27 02
		i(PcP)	29 02
RC		eP	22 27 58
SLC		eP	22 27 36
TUC		eP	22 28 19
		e	28 33

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Date and Station		Phase (GCT)
		h m s
TUC-T	eP	22 28 19
	e	28 30
Nov. 23		
BC	e(P)	23 45 46
BOZ	eP	23 45 21
BUT	e(P)	23 45 25
COL	eP	23 41 59
	i	42 23
EUR	iP	23 45 23
HH	iP	23 44 53
	i	45 08
	iPaP	47 08
RC	eP	23 46 04
	e	46 18
TUC	eP	23 46 26
TUC-T	eP	23 46 26
	e	46 36
Nov. 24		
EUR	e(P)	00 24 44
TUC	e(P)	00 25 45
	e	26 16
Nov. 24		
EUR	e(P)	03 25 24
Nov. 24		
COL	iP	03 50 18
Nov. 24		
COL	eP'	07 08 16
	i	08 21
COLU	e(P)	07 02 13
EUR	eP	07 03 17
SJ	e(P)	07 00 47
TUC	eP	07 02 37
TUC-T	iP	07 02 37
	ePP	06 15
Nov. 24		
COL	iP	07 13 57
HH	eP	07 08 27
Nov. 24		
COL	eP	07 19 57
EUR	eP	07 18 47
	i	19 04
HH	eP	07 18 23
Nov. 24		
COL	iP	09 13 13

Date and Station		Phase (GCT)
		h m s
EUR	eP	09 16 31
Nov. 24		
COL	iP	12 10 08
EUR	iP	12 13 25
HH	iP	12 12 55
RC	eP	12 13 45
TUC	eP	12 14 10
TUC-T	eP	12 14 10
Nov. 24		
COL	iP	12 53 28
EUR	e(P)	12 56 46
Nov. 24		
COL	iP	17 54 36
	i	54 53
Nov. 24		
EUR	eP	18 23 13
Nov. 24		
HH	e(P)	19 16 02
Nov. 24		
COL	eP	20 33 36
EUR	eP	20 37 04
Nov. 24		
EUR	eP	21 52 55
TUC-T	eP	21 52 06
Nov. 24		
EUR	eP	22 25 48
Nov. 24		
BC	eP	22 35 58
COL	iP	22 38 28
COLU	eP	22 32 17
EUR	iP	22 36 09
	i	36 42
	iPaP	37 17
HH	eP	22 36 12
RC	iP	22 35 08
SLC	eP	22 35 47
SJ	iP	22 28 11
	i(S)	29 15
	eL	29 18
TUC	eP	22 35 30
TUC-T	iP	22 35 29
	ePP	37 21

Date and Station		Phase (GCT)
		h m s
Nov. 25		
EUR	eP	00 28 11
Nov. 25		
EUR	eP	01 32 19
TUC-T	eP	01 33 49
Nov. 25		
COL	eP	02 35 06
EUR	e(P)	02 36 06
HH	iP	02 35 21
RC	eP	02 35 07
TUC	iP	02 36 19
TUC-T	eP	02 36 18
Nov. 25		
COL	iP	02 48 11
EUR	eP	02 51 31
HH	eP	02 51 02
Nov. 25		
TUC	eP	02 58 30
TUC-T	eP	02 58 30
Nov. 25		
COL	iP	03 42 12
Nov. 25		
COL	eP	04 12 25
Nov. 25		
EUR	eP	04 58 04
COL	iP	08 26 07
Nov. 25		
COL	iP	08 38 27
TUC	eP	08 38 07
TUC-T	eP	08 38 08
Nov. 25		
BC	eP	09 25 00
BOZ	e(P)	09 24 41
BUT	eP	09 24 33
COL	iP	09 21 48
EUR	iP	09 24 44
HH	iP	09 24 22
TUC	eP	09 25 27
	e	25 39
TUC-T	eP	09 25 26

Date and Station		Phase (GCT)
		h m s
Nov. 25		
TUC	eP	10 25 05
TUC-T	eP	10 25 04
Nov. 25		
COL	iP	13 26 40
EUR	iP	13 26 04
HH	eP	13 26 37
TUC	eP	13 26 03
TUC-T	iP	13 26 04
Nov. 25		
BOZ	eP'	13 33 53
EUR	iP'	13 33 51
HH	iP'	13 33 46
TUC-T	e(P')	13 34 18
	ePP	36 34
Nov. 25		
COL	iP	14 08 58
	i	09 11
	i(S)	10 27
	iL	10 34
EUR	eP	14 13 20
HH	eP	14 12 27
Nov. 25		
COL	iP	16 08 34
EUR	iP	16 12 10
RC	eP	16 12 36
TUC-T	eP	16 13 02
Nov. 25		
COL	eP	23 22 47
HH	eP	23 25 15
Nov. 26		
COL	iP	00 14 44
	iS	15 39
	iL	15 48
Nov. 26		
COL	eP	00 23 38
EUR	e(P)	00 29 39
Nov. 26		
EUR	iP'	00 36 22
HH	iP'	00 36 16
Nov. 26		
COL	eP	00 57 10
EUR	eP	01 00 17

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Date and Station		Phase	(GCT) h m s
Nov. 26			
COL		iP	01 55 11
EUR		iP	01 58 29
HH		eP	01 57 01
Nov. 26			
COL		eP	03 18 39
EUR		eP	03 19 17
Nov. 26			
TUC-T		e(P)	08 39 46
Nov. 26			
BC		eP	09 24 50
BOZ		eP	09 24 26
BUT		eP	09 24 18
COL		iP	09 21 11
		i	21 22
EUR		iP	09 24 32
HH		iP	09 24 02
		i	24 15
SLC		eP	09 24 42
TUC		eP	09 25 20
TUC-T		eP	09 25 19
Nov. 26			
EUR		eP	11 13 21
TUC		iP	11 13 45
TUC-T		iP	11 13 45
Nov. 26			
EUR		iP	14 19 53
HH		e(P)	14 20 19
TUC-T		eP	14 18 58
Nov. 26			
EUR		eP	21 39 52
Nov. 26			
COL		eP	22 11 19
EUR		iP	22 15 13
HH		eP	22 14 09
Nov. 26			
TUC-T		eP	22 24 31
Nov. 26			
COL		eP	22 32 32
EUR		iP	22 35 51
Nov. 26			
EUR		eP	23 50 34
Nov. 27			
HH		i(P)	02 18 45
Nov. 27			
BC		e(P)	06 05 59
EUR		e(P)	06 05 45
		iP	05 48
		i	05 59
		iS	06 54
		iL	07 02
TUC		e(P)	06 06 49
		eL	09 47
TUC-T		e(P)	06 06 54
		eL	09 39
UK		e(P)	06 05 30
		eL	06 24
Nov. 27			
COL		eP	07 48 07
EUR		eP	07 48 31
HH		eP	07 47 38
TUC-T		eP	07 48 46
		e	51 33
Nov. 27			
COL		e(P)	09 38 22
Nov. 27			
HH		e(P)	10 28 42
Nov. 27			
HH		eP	14 00 51
Nov. 27			
COL		iP	14 25 05
EUR		eP	14 24 43
TUC		eP	14 24 47
TUC-T		eP	14 24 46
Nov. 27			
BC		eP	15 09 56
COLU		eP	15 08 33
EUR		eP	15 10 15
		i	10 43
HH		iP	15 10 46
RC		eP	15 10 00
		e	10 19
SJ		eP	15 06 04
TUC		eP	15 09 25
		e	09 53
TUC-T		iP	15 09 25
		e	09 43
Nov. 27			
COL		eP	16 03 54
Nov. 27			
HH		e(P)	17 48 39
Nov. 27			
COL		e(P)	18 55 42
Nov. 27			
COL		iP	19 19 17
EUR		eP	19 23 02
Nov. 27			
COL		iP	21 12 23
EUR		e(P)	21 12 03
TUC-T		eP	21 12 05
		e	12 11
Nov. 28			
COL		iP	02 23 23
EUR		iP	02 26 51
HH		eP	02 26 20
RC		eP	02 27 42
TUC		e(P)	02 27 57
TUC-T		eP	02 28 03
Nov. 28			
COL		iP	02 32 48
EUR		iP	02 36 16
HH		e(P)	02 35 45
Nov. 28			
BUT		e(P)	04 57 12
COL		iP	05 00 38
EUR		iP	04 56 30
HH		eP	04 57 28
RC		eP	04 56 34
TUC		eP	04 55 08
		e	55 25
		eL	05 00 52
TUC-T		iP	04 55 09
		e	55 38
		eL	05 00 53
Nov. 28			
COL		eP	05 15 37
EUR		eP	05 11 22
RC		eP	05 10 29
TUC		eP	05 10 01
		e	10 17
		eL	15 50
TUC-T		iP	05 10 01
		e	10 29
		eL	15 45
Nov. 28			
EUR		eP	07 38 45
RC		eP	07 38 35
TUC-T		eP	07 37 56
		e	38 10
Nov. 28			
COL		iP	08 32 45
EUR		eP	08 36 03
HH		eP	08 35 34
		i	35 46
RC		eP	08 36 38
Nov. 28			
COL		iP	09 41 52
EUR		iP	09 45 13
HH		eP	09 44 44
Nov. 28			
COL		i(P)	10 44 37
		iP	44 59
EUR		iP	10 48 36
TUC-T		eP	10 49 55
Nov. 28			
EUR		eP	12 31 33
Nov. 28			
COL		iP	12 46 26
		i	46 37
Nov. 28			
COL		iP	13 17 41
Nov. 28			
SLC		iP	13 30 39
TUC		e(P)	13 32 33
		e	32 37
		e	34 21
TUC-T		eP	13 32 44
		e	34 10
Nov. 28			
SLC		eP	13 37 43
Nov. 28			
HONO		iP	18 43 02

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

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
Nov.	
BUT	
4	06.7
	11.6
7	21.2
9	19.9
	22.9
10	08.6
	15.7
	20.0
11	02.7
16	12.3
18	05.5
23	12.0
Nov.	
COL	
1	23.1
4	13.6
	19.7
5	17.9
7	16.8
	19.8
8	20.6
	21.9
9	01.1
	22.4
10	21.5
11	11.9
	12.4
12	15.9
13	22.9
17	12.2
18	20.0
19	06.0
22	13.7
23	05.7
24	00.6
	18.1
	21.1
25	05.4
	07.4
	07.9
	11.4
26	01.9
	19.5
27	12.4
30	16.5
Nov.	
EUR	
10	16.7
19	18.9
26	22.4
28	13.5
29	08.2
Nov.	
HONO	
2	15.9
6	02.7
7	21.2
	21.4
	21.5
	22.8

Date and Station	Phase (GCT)
	h m s
HONO	
11	02.1
13	02.6
16	18.5
17	10.8
21	02.1
26	02.5
27	00.5
	01.3
Nov.	
KIP	
6	02.7
Nov.	
SJ	
2	05.7
3	23.6
17	00.7
19	16.4
Nov.	
TUC	
1	23.0
2	22.4
3	02.6
4	06.3
	09.5
6	03.2
	04.4
8	07.0
	13.4
9	22.5
11	23.5
13	09.2
15	09.5
17	03.1
20	03.1
	03.4
21	12.6
23	12.5
	12.8
	21.1
24	08.7
	11.0
26	06.9
29	21.6
30	01.9
Nov.	
UK	
5	13.9
	14.4
16	16.1
24	15.4
27	23.8

Date and Station	Phase (GCT)
	h m s

Date and Station	Phase (GCT)
	h m s