USCGS
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SEISMOLOGICAL BULLETIN

November, 1957

COAST & GEODETIC SURVEY
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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1957

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
**Burlington, Vt. (BUR)
University of Vermont
*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
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
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.
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 and Burlington, which may be obtained on loan by addressing the Seismograph Station Director: - Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone; University of Vermont, Burlington, Vermont.

US COMM-CGS-DC-

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	°	°	
1	10 12 00*	47 N.	121 W.	Near Mount Rainier, Washington.
1	14 54 12**			Guatemala.
2	01 18 18*	52½ N.	169 W.	Fox Islands, Aleutian Islands.
2	07 20 58*	15 N.	93½ W.	Near coast of Chiapas, Mexico. h about 100 km.
2	16 16 52*	6 N.	127½ E.	Off southeast coast of Mindanao, Philippine Islands.
2	18 30 24*	13 S.	166½ E.	New Hebrides Islands.
3	10 24 51*	6 S.	147 E.	Near northeast coast of New Guinea. Felt at Lae.
3	11 14 30*	6½ S.	147 E.	Near northeast coast of New Guinea. Felt at Lae.
3	16 58 00*	42½ N.	111½ W.	Southeastern Idaho.
3	17 38 22*	42½ N.	111 W.	Southeastern Idaho.
4	02 30 30*	52 N.	175½ W.	Andreanof Islands, Aleutian Islands.
5	09 54 29*	13 S.	169 E.	New Hebrides Islands region. h about 650 km.
5	11 18 43*	6 S.	150 E.	New Britain.
5	19 51 15*	51 N.	178½ W.	Andreanof Islands, Aleutian Islands.
6	04 59 01*	24½ S.	65 W.	Salta Province, Argentina.
6	13 12 53*	45 N.	149½ E.	Kurile Islands.
7	02 58 53*	24 S.	112½ W.	South Pacific Ocean.
7	04 15 35*	52 N.	179 E.	Rat Islands, Aleutian Islands. h about 150 km.
7	06 21 56*	57½ S.	143½ W.	South Pacific Ocean.
8	02 46 22*	5½ S.	155 E.	Solomon Islands. Felt at Karoola and Rabaul.
8	09 03 34*	43 N.	144½ E.	Near east coast of Hokkaido, Japan.
9	06 16 59*	53½ N.	164 W.	Unimak Island region.
9	19 10 39**			Solomon Islands. h about 150 km.
9	23 55 50*	38½ N.	22 E.	Greece. Felt at Amphissa.
10	02 36 21*	7 S.	155½ E.	Solomon Islands. Felt at Aropa.
10	03 43 49*	7½ S.	155½ E.	Solomon Islands. Felt at Aropa.
10	05 28 10*	24½ S.	175½ W.	Tonga Islands region.
10	05 48 57*	6½ S.	147 E.	Near northeast coast of New Guinea. Felt at Lae.
10	08 26 06*	34½ N.	139 E.	Near south coast of Honshu, Japan.
10	08 42 50*	7½ S.	156½ E.	Solomon Islands.
10	09 40 30**			About 100 miles south of Honshu, Japan.
10	10 21 14*	8 N.	74½ W.	Northern Colombia.
10	18 01 37*	2 S.	116 E.	Near east coast of Borneo.
10	19 20 05*	34 N.	139½ E.	Near east coast of Honshu, Japan. Felt at Tokyo.
10	22 13 55*	60 N.	152 W.	Kenai Peninsula.
11	06 24 00*	30½ S.	177½ W.	Kermadec Islands.
11	07 49 54*	46½ N.	112 W.	Montana
11	14 12 26**			Andreanof Islands, Aleutian Islands.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Nov.	h m s	°		°		
11	18 20 38**					Near coast of Guerrero, Mexico. Felt at Acapulco and Federal District.
12	00 03 02*	19	N.	81½	W.	Cayman Islands .
12	00 20 03*	24	S.	177	W.	Tonga Islands region.
12	01 31 40*	6	S.	149½	E.	New Britain Island. Felt at Walindi.
12	05 30 28**					Andreanof Islands, Aleutian Islands.
12	09 33 51*	7½	S.	128½	E.	Banda Sea.
13	08 44 36**					Near south coast of Hokkaido, Japan.
13	17 22 41*	33	S.	179	W.	Kermadec Islands region. Mag. 6-1/2 - 6-3/4.
14	04 34 41*	51	N.	179	W.	Andreanof Islands, Aleutian Islands.
14	05 20 17**					Andreanof Islands, Aleutian Islands.
15	06 06 55*	52	N.	171½	W.	Fox Islands, Aleutian Islands.
15	07 52 25*	8½	N.	124	E.	Mindanao, Philippine Islands. Felt at Dipolog, Dumaguete and Mambajao.
15	12 01 37*	34	N.	141	E.	South of Honshu, Japan. Felt at Tokyo.
15	16 30 29*	51½	N.	158	E.	Near east coast of Kamchatka.
16	01 48 48*	51½	N.	177	W.	Andreanof Islands, Aleutian Islands.
16	05 06 46*	17	N.	85	W.	Off north coast of Honduras.
17	05 57 48*	49	N.	148½	E.	Sea of Okhotsk. h about 350 km.
17	06 32 17*	40½	N.	125½	W.	Off coast of northern California.
17	06 43 00**					Baja California. Mag. 5.
17	15 41 22**					Southern Chile-Argentina border.
17	17 55 04*	30½	N.	138	E.	South of Honshu, Japan. h about 450 km.
18	10 12 00*	51½	N.	179½	W.	Andreanof Islands, Aleutian Islands.
18	14 53 56*	51	N.	179½	W.	Andreanof Islands, Aleutian Islands.
18	15 12 53*	44	N.	148	E.	Kurile Islands.
19	01 44 36*	27½	N.	129	E.	Ryukyu Islands.
19	02 34 15**					Antarctic Ocean, about 350 miles northwest of Balleny Islands.
19	11 21 39*	28½	N.	140½	E.	Bonin Islands region.
19	16 13 29*	47	N.	152½	E.	Kurile Islands. h about 100 km.
19	23 14 45*	31½	N.	140	E.	Off south coast of Honshu, Japan.
20	02 35 29*	23½	N.	143½	E.	Volcano Islands.
20	12 40 23*	54	N.	165	W.	Unimak Island. Mag. 6-1/4 - 6-1/2.(Berk).
21	05 11 33*	½	S.	127½	E.	Halmahera Island region.
21	14 34 15*	33½	S.	180		Kermadec Islands region.
21	17 57 21*	3	S.	130	E.	Ceram Island region.
22	16 05 35*	22½	S.	172½	E.	Loyalty Islands region.
22	18 03 02*	29	N.	139½	E.	Bonin Islands region. h about 400 kms.
22	21 51 04*	1	S.	127	E.	Spice Islands.
23	00 55 00*	52	N.	172	E.	Near Islands, Aleutian Islands.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Nov.	h m s	°		°		
23	00 58 36*	53	N.	167½	W.	Fox Islands, Aleutian Islands. Depth slightly greater than normal.
23	22 04 13*	23	S.	173	E.	Loyalty Islands region.
24	01 25 35*	51	N.	177½	W.	Andreanof Islands, Aleutian Islands.
24	04 44 52**					Near east coast of New Guinea.
24	09 43 36*	78	N.	20	W.	Near northeast coast of Greenland.
25	00 01 48**					Loyalty Islands region.
25	00 26 32*	3	N.	128	E.	Halmahera Island.
25	04 11 09*	62½	N.	151	W.	Alaska. h about 150 km.
25	07 36 08*	50½	N.	175½	W.	Andreanof Islands, Aleutian Islands.
25	18 55 12*	44	N.	130	W.	Off coast of Oregon.
25	19 04 40*	44	N.	129	W.	Oregon aftershock.
25	20 32 25*	44½	N.	129½	W.	Oregon aftershock.
25	22 16 44*	45	N.	130	W.	Oregon aftershock.
25	22 35 00*	1½	S.	116½	E.	Near east coast of Borneo.
26	05 10 00*	2	S.	116	E.	Near east coast of Borneo.
26	08 15 27*	40	N.	23	E.	Greece foreshock.
26	11 35 44*	51½	N.	176	W.	Andreanof Islands, Aleutian Islands.
26	11 50 07*	40	N.	23	E.	Greece foreshock.
26	19 07 02*	19	N	121	E.	Near north coast of Luzon, Philippine Islands.
26	23 24 03*	11½	N.	86½	W.	Near coast of Nicaragua. h about 100 km.
27	03 08 06*	39½	N.	22½	E.	Near east coast of Greece. Felt at Larissa and Volos.
27	03 22 19*	7	N.	73	W.	Northern Colombia. h about 200 km.
27	13 56 30*	20	S.	67½	W.	Southern Bolivia.
28	03 07 55*	10	S.	75½	W.	Brazil-Peru border. h about 600 km.
28	05 09 35*	8½	N.	126½	E.	Near east coast of Mindanao, Philippine Islands.
28	20 50 10*	15	S.	168½	E.	New Hebrides Islands.
29	17 43 38*	48½	S.	124½	E.	South Indian Ocean.
29	22 19 38*	21	S.	66	W.	Southern Bolivia. Slight damage in northern Chile. h about 200 km. Mag. 7-3/4 - 8.
30	17 41 15*	83½	N.	112½	E.	Arctic Ocean.
30	20 28 18*	49	N.	154	E.	Kurile Islands.
30	21 37 11*	47	N.	154½	E.	Kurile Islands.
30	21 54 10*	47	N.	154	E.	Kurile Islands.

Date and Station		Phase (GCT) h m s
Nov. 1		
COL	iP	02 18 38
EUR	eP	02 22 06
Nov. 1		
EUR	iP	04 52 34
	iS	52 59
	iL	53 06
Nov. 1		
COL	iP	06 03 03
Nov. 1		
COL	eP	09 40 52
Nov. 1		
BOZ	eP	10 13 51
	e(S)	14 06
	eL	15 56
BUT	eP	10 13 32
	eS	14 43
	eL	15 04
EUR	eP	10 14 05
	eS	15 33
	eL	15 47
HH	iP	10 13 19
	e	13 35
	iS	14 19
	eL	14 42
Nov. 1		
HH	eP	11 08 18
Nov. 1		
COL	eP	14 33 20
EUR	iP	14 30 46
Nov. 1		
BOZ	eP	15 01 02
COL	eP	15 04 34
EUR	eP	15 00 46
RC	e(P)	15 02 48
	e	06 50
TUC	iP	14 59 34
Nov. 1		
COL	iP	15 19 57
HH	iP	15 16 53
Nov. 1		
HH	e(P)	15 42 49
RC	eP	15 40 18
	e	41 11
	e	41 50
TUC	eP	15 40 17
	e	42 04
Nov. 1		
COL	iP	15 55 57
	i	56 17
Nov. 1		
HH	eP	18 08 40
Nov. 1		
RC	eP	18 26 24
Nov. 1		
EUR	eP	18 59 38
HH	eP	18 59 09
Nov. 1		
COL	iP	20 08 48
EUR	iP	20 07 03
RC	eP	20 06 01
	e	06 19
Nov. 1		
COL	iP	20 52 51
EUR	eP	20 52 25
	i	54 13
HH	eP	20 53 45
Nov. 1		
HH	eP	23 39 51
Nov. 2		
BC	eP	01 26 04
BOZ	eP	01 25 36
COL	iP	01 22 10
EUR	iP	01 25 40
	i	26 05
HH	iP	01 25 09
	e	27 57
RC	iP	01 26 21
Nov. 2		
TUC	eP	01 26 45
Nov. 2		
TUC	e(P)	06 30 08
Nov. 2		
BH	iP	07 24 19
BC	iP	07 26 50
	e	27 04
BOZ	iP	07 27 38
	i	28 21
BUT	iP	07 27 46
	ipP	28 02
COL	iP	07 31 11
	iPcP	31 55
COLU	iP	07 25 49
	i	25 59
	i	26 21
EUR	iP	07 27 18
HH	iP	07 28 07
	i	28 22
	iPcP	30 28
RC	iP	07 27 04
	e(PcP)	30 07
SLC	eP	07 27 07
	i	27 23
	i	27 41
SJ	eP	07 26 28
	i	27 14
TUC	iP	07 26 05
	iS	30 26
	eL	33 36
Nov. 2		
BH	iP	12 09 56
	eS	10 40
EUR	eP	12 17 14
HH	iP	12 17 52
TUC	eP	12 16 09
Nov. 2		
COL	eP	14 06 20
	e	06 32
EUR	eP	14 09 57
Nov. 2		
UK	e(P)	14 56 53
Nov. 2		
COL	iP	16 29 19
EUR	ePP	16 35 22
Nov. 2		
BOZ	eP	18 44 09
BUT	eP	18 44 04
COL	iP	18 43 03
	ipP	43 28
EUR	iP	18 43 21
	ipP	43 48
	iPP	47 08
	ePKKP	19 00 58
	i	01 47
	eP'P'	09 01
	eSKPP	12 32
HONO	eP	18 39 47
	iS	46 24
	eL	50 54
HH	eP	18 43 42
	ePKKP	19 00 42
	i	00 50
	iP'P'	09 06
RC	ePP	18 48 27
	e(PKKP)	19 02 00
	e	04 16
	eP'P'	08 50
	e	10 36
	e	10 51
SLC	eP	18 43 36
	ipP	44 04
SJ	eP'	18 49 34
	i	50 04
TUC	eP	18 43 32
	epP	43 58
	ePP	47 27
	ePKKP	19 00 58
	eP'P'	09 10
	eL	11 02
UK	eP	18 42 56
	e	43 14
Nov. 2		
COL	iP	19 06 25
Nov. 2		
HH	e(P)	20 43 53
Nov. 3		
EUR	eP	01 14 09
HH	eP	01 14 40
Nov. 3		
COL	eP	01 26 55
EUR	eP	01 30 27
HH	eP	01 29 55
Nov. 3		
BOZ	eP	02 31 50
COL	iP	02 28 30
	i	28 45
EUR	eP	02 31 56
HH	iP	02 31 27
RC	eP	02 32 34
TUC	eP	02 32 55
Nov. 3		
COL	iP	04 53 37
	iS	54 00
	iL	54 07
Nov. 3		
COL	iP	07 35 01

Date and Station		Phase (GCT)
		h m s
Nov. 3		
COL	eP	10 37 32
EUR	eP	10 38 40
SJ	iP'	10 44 34
Nov. 3		
EUR	eP	11 06 16
RC	eP	11 06 20
Nov. 3		
EUR	eP	11 11 33
Nov. 3		
COL	eP	11 27 11
EUR	eP	11 28 19
Nov. 3		
HH	iP	12 57 45
	e	58 14
Nov. 3		
BOZ	eP	16 58 47
	eL	59 38
EUR	eP	16 59 12
	eS	17 00 17
	eL	00 32
HH	e(P)	17 00 03
	e	01 17
RC	eP	16 59 38
	e	17 01 13
SLC	iP	16 58 31
	iS	58 57
	eL	59 20
Nov. 3		
COL	eP	17 06 55
	i	06 59
	iS	07 32
	iL	07 39
Nov. 3		
BOZ	iP	17 39 11
	i	39 26
	eS	39 47
	eL	40 02
BUT	eP	17 39 19
	eS	40 04
	iL	40 11
EUR	eP	17 39 35
	iS	40 25
	iL	40 40
HH	e(P)	17 39 54
	e	39 59
	eL	41 27
RC	iP	17 40 14
	eS	41 28
	eL	41 41

Date and Station		Phase (GCT)
		h m s
SLC	iP	17 38 55
	iS	39 21
	iL	39 54
TUC	e(P)	17 41 39
	e(S)	43 58
	iL	44 09
Nov. 3		
COL	eP	18 46 43
Nov. 3		
COL	iP	20 18 09
Nov. 4		
BOZ	iP	02 38 23
	i	38 30
BUT	eP	02 38 14
COL	eP	02 34 59
COLU	eP	02 41 24
EUR	eP	02 38 27
HH	iP	02 37 56
	ePcP	40 08
RC	eP	02 39 07
SLC	iP	02 36 25
	i	36 37
	i	36 58
SJ	eP	02 43 19
TUC	eP	02 39 29
Nov. 4		
COL	eP	02 47 39
	i	48 07
Nov. 4		
HH	eP	05 02 44
Nov. 4		
SLC	iP	10 47 41
	i	48 08
Nov. 4		
COL	eP	11 08 23
EUR	iP	11 09 09
Nov. 4		
COL	iP	14 42 39
EUR	eP	14 46 26
Nov. 4		
COL	eP	15 18 41
HH	e(P)	15 21 50
Nov. 4		
EUR	eP	16 28 33

Date and Station		Phase (GCT)
		h m s
Nov. 4		
COL	eP	19 04 06
	iS	05 05
	eL	05 17
Nov. 4		
COL	eP	20 20 19
EUR	iP	20 23 58
HH	eP	20 23 25
	e	26 16
RC	eP	20 24 38
Nov. 5		
HONO	iP	08 45 25
Nov. 5		
COL	eP	10 05 59
COLU	eP	10 10 15
	e	10 25
EUR	iP	10 06 15
	epP	08 26
HONO	iP	10 02 10
HH	eP	10 06 34
	epP	08 48
	iPP	10 20
	iSKS	16 05
	eP'P'	32 00
RC	e(P)	10 09 19
	ePP	11 08
TUC	iP	10 06 24
	epP	08 43
Nov. 5		
EUR	iP	10 09 50
Nov. 5		
COL	eP	10 33 24
EUR	iP	10 33 40
	epP	34 32
TUC	e(P)	10 33 50
Nov. 5		
COL	eP	11 31 14
HH	eP	11 32 24
Nov. 5		
COL	eP	15 14 03
	e	14 23
Nov. 5		
BOZ	iP	19 59 24
	i	59 52
BUT	eP	19 59 14
COL	iP	19 56 03

Date and Station		Phase (GCT)
		h m s
COLU	iP	20 02 21
EUR	iP	19 59 30
	ePcP	20 01 22
HH	iP	19 58 59
RC	iP	20 00 07
SLC	eP	19 59 43
SJ	eP	20 04 14
TUC	eP	20 00 30
Nov. 5		
HH	eP	20 40 40
Nov. 5		
EUR	eP	20 45 37
TUC	eP	20 44 26
Nov. 5		
SLC	eP	22 35 58
Nov. 5		
EUR	iP	23 10 21
HH	iP	23 09 49
	e	11 55
RC	eP	23 10 59
Nov. 5		
EUR	eP	23 52 28
	i	52 43
	eS	53 40
	eL	53 57
Nov. 6		
COL	iP	00 18 29
Nov. 6		
COL	eP	00 54 00
EUR	eP	00 54 03
TUC	eP	00 54 04
Nov. 6		
EUR	eP	01 03 50
Nov. 6		
COL	ePP	05 16 50
EUR	iP	05 10 53
	epP	11 43
HH	eP	05 11 20
RC	eP	05 10 38
SLC	eP	05 10 45
SJ	eP	05 06 42
TUC	eP	05 10 07

Date and Station		Phase (GCT) h m s
Nov. 6		
COL	eP	06 18 26
	eS	20 07
	eL	20 31
EUR	eP	06 21 35
SIT	iP	06 16 48
	iS	17 11
	iL	17 54
Nov. 6		
EUR	eP	10 49 37
Nov. 6		
TUC	e(P)	13 08 26
Nov. 6		
BOZ	eP	13 23 43
BUT	iP	13 23 34
COL	iP	13 20 26
EUR	iP	13 23 46
HH	iP	13 23 19
RC	iP	13 24 13
	e	25 29
	e(PP)	27 27
SLC	eP	13 24 59
TUC	eP	13 24 36
	e	24 45
Nov. 6		
TUC	e(P)	14 44 03
Nov. 6		
BUT	iP	16 15 25
	i(S)	15 47
	iL	15 49
HH	iP	16 15 05
	iS	15 14
	iL	15 16
Nov. 6		
COL	iP	16 21 59
EUR	iP	16 25 31
HH	e(P)	16 25 13
Nov. 6		
HH	eP	19 29 27
Nov. 6		
EUR	eP	20 14 26
Nov. 6		
HH	eP	20 45 25
Nov. 6		
RC	e(P)	21 58 10
HH	e(P)	22 01 18

Date and Station		Phase (GCT) h m s
Nov. 6		
HH	eP	23 01 10
Nov. 6		
EUR	eP	23 43 58
Nov. 7		
EUR	iP	03 08 48
Nov. 7		
BOZ	iP	03 10 06
COL	eP	03 12 09
EUR	iP	03 09 27
	ePPP	13 04
HH	iP	03 10 21
RC	iP	03 09 59
	e	13 36
SLC	iP	03 09 34
TUC	iP	03 08 37
UK	iP	03 09 33
Nov. 7		
BOZ	eP	04 23 41
COL	iP	04 20 15
	ipP	20 50
EUR	eP	04 23 48
	ipP	24 26
	e(ScP)	28 58
HH	iP	04 23 15
	e(S)	28 42
SJ	iP	04 28 22
TUC	iP	04 24 48
	epP	25 24
UK	iP	04 23 15
	e	23 29
Nov. 7		
EUR	eP	06 35 41
TUC	eP	06 35 15
	eL	07 05 21
Nov. 7		
COL	iP	07 39 06
EUR	eP	07 45 22
HH	iP	07 44 13
Nov. 7		
HH	eP	12 36 24
Nov. 7		
HH	e(P)	14 04 16
Nov. 7		
HH	eP	17 37 42

Date and Station		Phase (GCT) h m s
Nov. 7		
EUR	eP	17 58 29
Nov. 7		
COL	iP	21 36 35
	iS	37 06
	iL	37 13
HH	eP	21 40 11
	e	40 18
Nov. 8		
COL	iP	02 06 05
	iS	06 32
	iL	06 41
Nov. 8		
COL	iP	02 58 42
Nov. 8		
COL	iP	04 00 59
	eS	02 03
	iL	02 14
Nov. 8		
BOZ	eP	09 14 50
COL	eP	09 11 37
	i	11 53
HH	eP	09 14 25
RC	eP	09 15 14
TUC	eP	09 15 44
Nov. 8		
COL	iP	09 31 32
	iS	32 01
	iL	32 04
Nov. 8		
COL	eP	13 32 41
	eS	33 57
	eL	34 11
Nov. 8		
EUR	iP	15 58 46
	iS	59 09
	iL	59 13
Nov. 8		
HH	eP	17 57 50
Nov. 8		
EUR	eP	21 13 28
Nov. 8		
COL	eP	22 20 26
EUR	eP	22 24 05
Nov. 9		
TUC	eP	02 35 32
Nov. 9		
COL	eP	06 20 23
	e(S)	24 03
	eL	25 08

Date and Station		Phase (GCT) h m s
EUR	eP	06 23 54
	i	24 09
HH	eP	06 23 32
TUC	eP	06 25 03
	e	25 11
Nov. 9		
RC	eP	06 42 15
Nov. 9		
EUR	eP	08 17 34
HH	eP	08 17 15
Nov. 9		
COL	iP	11 19 32
	i	19 46
Nov. 9		
EUR	eP	18 43 34
Nov. 9		
EUR	eP	19 23 44
Nov. 9		
HH	eP	19 27 42
Nov. 10		
HH	eP	00 08 32
Nov. 10		
EUR	iP	02 49 41
	i	50 27
	eP'P'	03 15 19
HH	e(P)	02 49 52
SJ	eP'	02 55 50
TUC	e(P)	02 50 47
	ePP	53 55
	e	54 49
	ePS	03 02 44
	eL	20 52
Nov. 10		
RC	eP	03 48 27
Nov. 10		
EUR	iP	03 57 08
Nov. 10		
BOZ	eP	05 41 20
BUT	iP	05 41 16
EUR	iP	05 40 48
	i	41 00
HH	eP	05 41 19
RC	eP	05 41 37
SLC	eP	05 41 04
TUC	iP	05 40 45
	eL	06 37 06

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Date and Station		Phase (GCT)
		h m s
Nov. 10		
COLU	iP'	06 08 11
EUR	eP	06 02 49
SJ	iP'	06 08 40
	i	09 01
	i	09 27
Nov. 10		
HH	eP	06 19 06
Nov. 10		
EUR	eP	07 14 32
TUC	eP	07 13 11
	eL	18 15
Nov. 10		
BOZ	eP	08 38 10
BUT	eP	08 38 04
EUR	iP	08 38 10
	iPKKP	08 56 09
HH	eP	08 37 52
	i	37 53
RC	eP	08 38 38
SLC	eP	08 38 25
TUC	eP	08 38 54
Nov. 10		
BUT	iP	09 52 32
COL	eP	09 49 55
EUR	iP	09 52 43
HH	iP	09 52 21
RC	eP	09 53 07
TUC	e(P)	09 53 27
Nov. 10		
BH	iP	10 22 34
	iS	23 31
BOZ	iP	10 30 04
	i	30 17
	i	30 38
BUT	iP	10 30 10
	i	30 24
COLU	iP	10 26 56
EUR	iP	10 29 59
	i	30 16
	i	30 20
HH	iP	10 30 28
RC	iP	10 29 22
	i	29 35

Date and Station		Phase (GCT)
		h m s
SLC	iP	10 29 45
	i	29 59
	e	30 33
	e(ScP)	35 06
SJ	iP	10 24 24
	i	24 45
	iS	26 43
	iL	27 03
TUC	iP	10 29 04
	ePcP	30 31
Nov. 10		
EUR	eP	12 34 46
HH	eP	12 34 31
Nov. 10		
EUR	eP	18 20 31
HH	eP	18 20 31
RC	eP	18 20 40
	e	22 33
Nov. 10		
EUR	eP	18 30 44
Nov. 10		
BOZ	eP	19 32 10
	i	32 15
BUT	iP	19 32 03
	i	32 27
	i	32 37
COL	iP	19 29 22
EUR	iP	19 32 13
HH	iP	19 31 50
RC	eP	19 32 38
	i	32 42
SLC	iP	19 32 24
	i	32 28
TUC	eP	19 32 54
	e(PP)	36 49
Nov. 10		
BOZ	eP	19 42 30
BUT	iP	19 42 27
COL	iP	19 39 45
EUR	iP	19 42 36
HH	iP	19 42 14
RC	iP	19 43 01
TUC	eP	19 43 15
	eL	20 00 23
Nov. 10		
BUT	eP	20 05 06

Date and Station		Phase (GCT)
		h m s
COL	iP	20 02 24
EUR	iP	20 05 16
HH	iP	20 04 54
RC	eP	20 05 40
Nov. 10		
BOZ	eP	22 19 44
BUT	iP	22 19 36
COL	iP	22 15 13
	iS	16 13
	iL	16 17
EUR	iP	22 20 11
	i	20 28
	i	20 46
HH	iP	22 19 15
	i	19 24
RC	eP	22 20 30
	e	20 40
TUC	eP	22 21 24
	e	21 36
Nov. 11		
EUR	eP	01 52 37
Nov. 11		
EUR	iP	04 15 17
HH	eP	04 15 02
Nov. 11		
EUR	iP	06 37 03
TUC	eP	06 36 58
Nov. 11		
TUC	eP	07 25 49
Nov. 11		
BOZ	iP	07 50 02
	iS	50 14
	eL	50 28
BUT	iP	07 50 06
	iS	50 18
	eL	50 21
EUR	e(P)	07 52 03
	eS	53 16
	eL	53 46
HH	iP	07 50 34
	i	50 37
	iS	51 06
	iL	51 14
RC	e(P)	07 51 29
	e	51 34
	eL	52 49

Date and Station		Phase (GCT)
		h m s
SLC	e(P)	07 51 26
	e	51 33
Nov. 11		
HH	e(P)	11 37 32
Nov. 11		
EUR	eP	13 01 54
	e	06 11
HH	eP	13 03 32
TUC	eP	13 00 00
	i	00 28
	eS	01 44
	eL	01 48
Nov. 11		
BOZ	e(P)	14 20 36
	e	20 44
COL	iP	14 17 14
EUR	eP	14 20 39
HH	eP	14 20 07
TUC	eP	14 21 38
	i	21 51
Nov. 11		
TUC	eP	15 03 41
	e	04 47
Nov. 11		
BOZ	eP	18 26 55
BUT	iP	18 27 00
	i	27 28
	ePcP	29 58
COL	iP	18 30 33
COLU	iP	18 26 03
EUR	iP	18 26 22
	eL	31 40
HH	iP	18 27 23
	ePcP	30 03
SLC	eP	18 26 17
TUC	eP	18 24 57
	e(S)	27 24
	eL	29 47
Nov. 11		
EUR	eP	18 42 19
Nov. 11		
EUR	eP	20 11 57
	e	12 45
Nov. 12		
BUT	eP	00 11 16
COL	eP	00 13 28
COLU	iP	00 06 40

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Date and Station		Phase	(GCT)
			h m s
EUR		eP	00 10 07
HH		e(P)	00 11 17
TUC		e(P)	00 09 21
		e	09 54
Nov. 12			
COL		iP	00 33 11
EUR		iP	00 32 42
KIP		iP	00 28 54
TUC		iP	00 32 40
Nov. 12			
COL		eP	01 44 13
EUR		e(P)	01 45 51
Nov. 12			
COL		e(P)	05 34 57
		iP	35 07
		i	35 34
EUR		iP	05 38 20
		e	38 47
HH		eP	05 37 49
RC		eP	05 39 13
TUC		e(P)	05 39 21
Nov. 12			
EUR		eP	05 58 06
HH		eP	05 58 13
RC		eP	05 59 51
Nov. 12			
EUR		eP	06 55 34
TUC		eP	06 55 36
Nov. 12			
HH		eP	09 00 31
		eL	01 06
Nov. 12			
COL		eP	09 47 13
Nov. 12			
HH		eP	10 13 37
Nov. 12			
HH		eP	12 40 07
		eL	40 57
Nov. 12			
COL		iP	17 14 12
		epP	16 11
EUR		iP	17 13 51
HH		eP	17 14 18
Nov. 12			h m s
EUR		eP	18 04 29
Nov. 13			
COL		eP	01 17 23
EUR		eP	01 18 16
Nov. 13			
HONO		iP	01 28 19
		iS	28 30
		iL	28 32
Nov. 13			
HH		eP	01 28 05
Nov. 13			
COL		eP	05 15 35
Nov. 13			
COL		eP	08 52 53
EUR		eP	08 56 03
HH		e(P)	08 55 29
RC		eP	08 56 25
Nov. 13			
EUR		iP	09 30 48
HH		eP	09 31 51
Nov. 13			
COL		e(P)	11 00 50
COLU		iP	10 55 15
EUR		eP	10 57 52
RC		e(P)	10 57 38
TUC		eP	10 56 50
Nov. 13			
EUR		eP	11 04 16
HH		iP	11 03 46
		e	06 01
RC		eP	11 03 27
		e	04 56
Nov. 13			
COL		iP	16 27 10
Nov. 13			
TUC		eP	17 13 50
Nov. 13			
BH		iPS	17 50 10
		iSS	55 50
BC		eP	17 35 51
		eS	46 53
BOZ		eP	17 36 28
		eSKS	47 05
		eL	18 09 21
			h m s
BUT		eP	17 36 27
		ePP	40 24
		eSS	54 54
		eL	18 06 02
CHI		ePS	17 51 46
		eSS	57 34
		eL	18 12 06
COL		iP	17 36 39
		i	37 14
		e	40 30
		iPP	40 56
		i	43 01
		i	44 31
		eSKS	47 06
		iPS	49 02
		e	51 29
		ePKKP	53 09
		eL	18 09 57
COLU		ePP	17 42 30
		eSP	52 11
		eSS	58 17
		eSSS	18 02 26
		eL	10 12
EUR		iP	17 35 57
		ePKKP	53 48
		e(P'P')	18 03 21
HONO		iP	17 32 31
		iS	40 32
		eL	46 48
HH		eP	17 36 29
		iPP	40 29
		eSKS	47 03
		i	47 28
		iPKKP	52 50
LIN		e(SKS)	17 48 23
		eSS	56 23
		eL	18 13 15
PHIL		ePS	17 52 47
		eSS	59 50
		eL	18 20 27
RC		eP	17 36 48
		e	36 58
		iPP	41 09
		eL	18 12 17
SLC		eP	17 36 11
SJ		eP'	17 41 30
		i	41 37
		ePS	52 40
		eSS	59 38
		eSSS	18 03 44
		eL	13 12
TUC		iP	17 35 51
		e	38 22
		ePP	39 32
		eS	46 26
		i	47 18
			h m s
TUC		iPS	17 48 02
		eL	18 00 24
UK		iP	17 35 37
		e	46 27
		eL	18 03 33
Nov. 14			
TUC		e(P)	01 40 25
		e	41 04
Nov. 14			
HH		eP	01 46 34
Nov. 14			
COL		eP	02 12 24
		eS	13 29
		eL	13 40
Nov. 14			
COL		eP	02 14 12
		i	14 20
Nov. 14			
EUR		eP	04 31 59
RC		eP	04 32 36
Nov. 14			
BOZ		iP	04 42 52
		e	43 24
BUT		eP	04 42 43
COL		iP	04 39 31
COLU		iP	04 45 49
EUR		iP	04 42 57
HH		iP	04 42 27
RC		iP	04 43 35
		e	44 51
SLC		eP	04 43 11
SJ		eP	04 47 40
		i	47 54
TUC		iP	04 43 56
Nov. 14			
COL		eP	05 24 46
EUR		eP	05 28 12
HH		eP	05 27 44
RC		eP	05 28 52
TUC		e(P)	05 29 18
Nov. 14			
EUR		eP	06 44 03
Nov. 14			
COL		eP	06 52 52

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Date and Station		Phase (GCT)
		h m s
HH	eP	06 55 47
Nov. 14		
COL	iP	07 12 33
	i	13 36
	i	14 22
Nov. 14		
HH	e(P)	09 23 54
Nov. 14		
EUR	eP	10 18 12
	i	18 34
Nov. 14		
HH	eP	14 29 07
Nov. 14		
COL	iP	16 46 45
EUR	iP	16 46 16
HH	eP	16 46 48
TUC	eP	16 46 16
Nov. 14		
RC	e(P)	17 59 13
Nov. 14		
HH	eP	19 48 20
Nov. 14		
COL	eP	21 06 38
Nov. 14		
EUR	eP	22 11 16
Nov. 14		
EUR	eP	23 07 30
HH	e(P)	23 06 37
RC	iP	23 07 24
TUC	eP	23 07 34
Nov. 14		
COL	iP	23 59 24
Nov. 15		
EUR	iP	00 03 10
HH	eP	00 02 34
RC	eP	00 03 34
TUC	eP	00 04 04
EUR	eP	00 34 16
TUC	e(P)	00 34 16
	e	35 20
Nov. 15		
HH	eP	00 51 35

Date and Station		Phase (GCT)
		h m s
SJ	eP	00 44 23
	eS	45 14
	eL	45 22
Nov. 15		
HH	eP	01 08 10
SJ	eP	01 01 02
	eS	01 43
	eL	01 52
Nov. 15		
COL	iP	01 31 57
	ipP	32 38
Nov. 15		
COL	eP	03 39 10
Nov. 15		
HH	eP	03 54 55
SJ	e(P)	03 47 43
	eS	48 28
	eL	48 36
Nov. 15		
BC	eP	06 14 54
BOZ	iP	06 14 27
	e	14 34
BUT	eP	06 14 17
COL	iP	06 11 06
COLU	iP	06 17 32
EUR	iP	06 14 31
HH	iP	06 14 01
	i	14 07
RC	iP	06 14 12
TUC	iP	06 15 34
Nov. 15		
TUC	e(P)	06 31 27
	e	31 36
	iL	32 19
Nov. 15		
COL	eP	06 44 27
	iP	44 29
	ipP	44 42
EUR	eP	06 48 01
	i	48 23
	i	50 21
HH	iP	06 47 28
	e	49 42
	e	50 10
RC	iP	06 48 41
TUC	eP	06 49 08

Date and Station		Phase (GCT)
		h m s
Nov. 15		
COL	eP	08 04 48
	i	05 02
EUR	eP'	08 10 17
	ePP	11 10
HH	e(P')	08 09 08
	ePP	10 51
RC	ePP	08 11 55
TUC	ePP	08 12 23
Nov. 15		
COL	eP	12 10 48
EUR	eP	12 13 40
HONO	eP	12 11 46
HH	eP	12 13 18
	e	13 41
Nov. 15		
COL	eP	12 35 32
EUR	iP	12 38 57
HH	iP	12 38 25
	e	40 50
RC	eP	12 39 36
TUC	eP	12 40 00
Nov. 15		
TUC	e(P)	13 14 48
	e	14 53
Nov. 15		
EUR	e(P)	13 37 37
HH	eP	13 37 42
SJ	eP	13 30 35
	eL	31 30
Nov. 15		
EUR	eP	13 38 44
HH	iP	13 38 55
	e	40 48
TUC	e(P)	13 40 28
Nov. 15		
COL	eP	14 47 49
Nov. 15		
EUR	eP	16 23 45
Nov. 15		
BC	iP	16 40 48
	i	41 00
BOZ	eP	16 40 17
	i	40 31
	iPcP	41 25

Date and Station		Phase (GCT)
		h m s
COL	iP	16 36 46
	i	36 59
	i	37 16
EUR	iP	16 40 27
	i	40 39
HH	iP	16 39 52
	i	40 06
	eS	47 25
RC	iP	16 40 53
	i	41 06
	ePP	43 23
	iS	49 14
	eP'P'	17 10 01
SIT	eP	16 37 52
TUC	iP	16 41 21
	i	41 35
UK	eP	16 40 13
Nov. 15		
EUR	iP	17 05 24
Nov. 15		
COL	iP	17 52 02
Nov. 16		
COL	iP	00 29 39
	iS	30 12
	iL	30 15
Nov. 16		
TUC	e(P)	00 31 07
	e	32 06
Nov. 16		
HH	eP	01 14 09
SJ	eP	01 07 00
	eS	07 40
	eL	07 45
Nov. 16		
SJ	eP	01 55 05
	eS	55 36
	eL	55 40
Nov. 16		
BC	iP	01 57 14
	i	57 29
	eS	02 03 59
BOZ	iP	01 56 48
	i	56 59
	i	57 09
	e	57 34
BUT	iP	01 56 37
	i	56 45
COL	eP	01 53 24
	i	53 26
	i	53 46

Date and Station		Phase	(GCT)
			h m s
COLU		iP	01 59 48
EUR		iP	01 56 53
HH		iP	01 56 23
		iS	02 02 21
		eScS	06 27
		eL	06 51
RC		iP	01 57 31
		eS	02 04 27
SLC		iP	01 57 06
		i	57 14
SJ		iP	02 01 41
SIT		eP	01 54 21
TUC		iP	01 57 53
		i	58 10
		i	58 30
Nov. 16			
COL		eP	03 41 37
Nov. 16			
SJ		eP	04 25 30
		eS	26 25
		eL	26 33
Nov. 16			
BC		iP	05 13 20
BOZ		e(P)	05 13 51
COL		eP	05 17 17
COLU		iP	05 10 57
EUR		eP	05 13 42
HH		eP	05 14 18
RC		eP	05 13 08
		ePP	14 07
		e	21 58
TUC		eP	05 12 39
Nov. 16			
TUC		eP	08 59 22
		e	59 30
Nov. 16			
HONO		iP	12 31 09
		iS	31 33
		iL	31 35
Nov. 16			
EUR		iP	13 43 07
Nov. 16			
COL		eP	17 01 30
Nov. 16			
COL		iP	17 20 50

Date and Station		Phase	(GCT)
			h m s
Nov. 16			
COL		eP	17 41 42
EUR		iP	17 45 22
Nov. 16			
BOZ		e(P)	19 56 37
		i	56 49
Nov. 16			
BC		eP	22 23 02
EUR		eP	22 23 49
TUC		iP	22 22 39
		e(S)	23 08
		iL	23 15
Nov. 16			
HH		eP	22 50 04
Nov. 16			
BC		eP	23 47 12
		e	47 36
BOZ		eP	23 49 33
COL		eP	23 53 47
EUR		eP	23 48 03
HH		eP	23 49 59
RC		eP	23 49 36
TUC		eP	23 46 40
		i	46 52
		eS	47 03
		eL	47 14
Nov. 17			
COL		eP	00 14 52
		iS	16 06
		iL	16 17
Nov. 17			
COL		iP	01 05 43
Nov. 17			
COL		eP	04 15 56
		i	16 05
		iS	16 29
		iL	16 40
Nov. 17			
EUR		eP	04 17 52
Nov. 17			
HH		eP	04 38 42
Nov. 17			
BC		e(P)	04 47 25
		e	48 44
EUR		iP	04 48 17
RC		eP	04 49 58
		e	53 52

Date and Station		Phase	(GCT)
			h m s
TUC		e(P)	04 46 52
		e	47 04
		eS	47 28
		eL	47 42
Nov. 17			
TUC		e(P)	04 50 49
		i	50 58
		i	51 13
		eL	51 46
Nov. 17			
BOZ		eP	04 53 44
HH		eP	04 54 10
TUC		e(P)	04 54 27
		eL	55 18
Nov. 17			
BUT		eP	06 04 33
EUR		iP	06 02 29
HH		eP	06 02 20
		e	02 49
		e(S)	04 04
		eL	04 18
Nov. 17			
BC		iP	06 08 12
		iPcP	08 34
		epP	09 34
BOZ		iP	06 07 43
		epP	09 04
BUT		iP	06 07 37
		iPcP	08 14
COL		iP	06 04 26
		i	04 45
		iS	09 45
		esS	11 56
COLU		iP	06 09 55
		ipP	11 20
EUR		iP	06 07 53
		iPcP	08 23
		ipP	09 10
HH		iP	06 07 22
		iPcP	08 04
		ePP	09 43
		i	10 00
		iScS	16 35
RC		iP	06 08 15
		epP	09 53
		esP	10 33
		eScS	16 52
SLC		iP	06 08 03
		ePcP	08 36
TUC		iP	06 08 42
		ipP	10 08

Date and Station		Phase	(GCT)
			h m s
Nov. 17			
BOZ		eP	06 35 07
BUT		eP	06 34 57
EUR		iP	06 34 05
		i	35 04
HH		iP	06 35 03
RC		iP	06 36 12
TUC		eP	06 35 45
		e	36 31
UK		iP	06 32 52
		eS	33 19
		eL	33 21
Nov. 17			
BC		eP	06 44 46
		e	45 07
		e(S)	45 28
		eL	45 55
BOZ		eP	06 47 05
		e	47 25
COL		eP	06 51 00
EUR		iP	06 45 38
HH		eP	06 47 34
		eL	53 36
RC		eP	06 47 13
		eL	52 32
SLC		e(P)	06 45 57
		eL	49 17
TUC		iP	06 44 12
		i	44 28
		e(S)	45 30
		eL	45 34
Nov. 17			
EUR		eP	07 00 47
Nov. 17			
EUR		eP	09 07 59
Nov. 17			
EUR		eP	15 54 39
Nov. 17			
EUR		eP	16 46 32
Nov. 17			
COL		eP	16 57 00
Nov. 17			
BOZ		iP	18 06 39
BUT		iP	18 06 34
		i	06 47
COL		iP	18 04 03
		i	04 23
		ipP	05 50

Date and Station		Phase (GCT)
		h m s
EUR	iP	18 06 42
	i	07 03
	ipP	08 21
HONO	iP	18 04 15
HH	iP	18 06 22
	epP	07 59
RC	iP	18 07 06
	ePP	10 40
TUC	eP	18 07 18
	ePP	11 17
Nov. 17		
EUR	eP	18 16 06
Nov. 17		
EUR	eP	18 30 50
Nov. 17		
EUR	eP	18 53 18
Nov. 17		
HH	eP	20 37 31
Nov. 18		
EUR	eP	01 13 16
Nov. 18		
COL	eP	02 45 09
TUC	eP	02 44 54
Nov. 18		
BC	e(P)	05 26 41
EUR	eP	05 26 13
RC	eP	05 27 51
TUC	e(P)	05 24 49
	e	25 01
	eS	25 49
	eL	25 47
Nov. 18		
EUR	eP	07 28 12
Nov. 18		
BC	eP	10 20 39
Nov. 18		
BOZ	eP	10 20 11
	e	21 09
BUT	eP	10 20 02
	i	20 16
COL	eP	10 16 48
	iP	16 50
	iS	20 48
	eL	21 48
EUR	iP	10 20 17
RC	eP	10 20 54
	i	20 56
	eS	28 06

Date and Station		Phase (GCT)
		h m s
SLC	eP	10 20 30
	e	20 43
SJ	iP	10 25 00
TUC	iP	10 21 16
	ePcP	22 19
Nov. 18		
COL	eP	10 23 38
Nov. 18		
TUC	eP	10 33 30
	e	33 40
	e	33 50
	eS	34 32
	eL	34 39
Nov. 18		
COLU	iP	11 23 08
Nov. 18		
COL	eP	11 33 34
	iS	34 04
	iL	34 13
Nov. 18		
COL	eP	14 05 29
EUR	eP	14 06 22
Nov. 18		
BOZ	eP	15 02 10
COL	iP	14 58 49
EUR	iP	15 02 15
RC	iP	15 02 53
SLC	eP	15 02 28
TUC	eP	15 03 16
Nov. 18		
COL	eP	15 15 40
EUR	eP	15 19 09
RC	eP	15 19 59
Nov. 18		
BOZ	eP	15 23 47
BUT	iP	15 23 41
COL	iP	15 20 37
	i	20 55
	i	21 30
EUR	iP	15 23 54
	i	24 12
RC	iP	15 24 20
SLC	eP	15 24 03
Nov. 18		
BH	iP	17 00 30
	iS	01 18

Date and Station		Phase (GCT)
		h m s
Nov. 18		
COL	eP	20 10 29
EUR	eP	20 13 55
Nov. 19		
COL	eP	01 55 04
EUR	iP	01 57 39
HH	iP	01 57 20
RC	e(P)	01 57 00
Nov. 19		
EUR	eP	07 56 35
RC	e(P)	07 56 59
	e	57 13
Nov. 19		
COL	eP	08 56 50
Nov. 19		
COL	eP	09 34 29
Nov. 19		
COL	iP	11 08 30
HH	e(P)	11 12 34
Nov. 19		
BUT	e(P)	11 34 14
COL	eP	11 31 26
EUR	iP	11 34 02
HH	iP	11 33 45
	e	42 27
RC	iP	11 34 29
SLC	eP	11 34 13
TUC	eP	11 34 40
Nov. 19		
BOZ	eP	16 23 43
	epP	24 13
COL	iP	16 20 25
	ipP	20 55
EUR	iP	16 23 52
	ipP	24 26
HONO	iS	16 29 10
HH	eP	16 23 21
RC	iP	16 24 17
TUC	eP	16 25 15
Nov. 19		
COL	iP	16 29 39
	i	29 54

Date and Station		Phase (GCT)
		h m s
EUR	eP	16 35 54
SJ	eP	16 37 23
Nov. 19		
HH	eP	19 27 29
Nov. 19		
COL	eP	19 38 36
EUR	eP	19 45 04
SJ	iP	19 46 17
Nov. 19		
HH	eP	20 21 00
	e	26 32
Nov. 19		
SJ	eP	21 42(07)
	eS	43 02
	eL	43 08
Nov. 19		
EUR	eP	22 53 52
HH	eP	22 54 20
RC	eP	22 53 37
SJ	eP	22 57 26
	iS	58 27
	iL	58 36
Nov. 19		
HH	eP	23 04 41
Nov. 19		
COL	iP	23 24 14
EUR	iP	23 26 58
	e	26 27
HH	iP	23 26 39
Nov. 20		
BOZ	eP	01 02 47
EUR	iP	01 01 49
HH	eP	01 03 15
RC	eP	01 02 34
TUC	eP	00 59 57
	eL	01 02 18
Nov. 20		
BUT	eP	02 47 57
COL	eP	02 45 40
EUR	eP	02 47 59
HH	eP	02 47 47
RC	e(P)	02 48 30

Date and Station		Phase (GCT)
		h m s
TUC	e(P)	02 48 50
Nov. 20		
EUR	eP	02 53 22
HH	eP	02 53 09
Nov. 20		
COL	iP	04 50 41
EUR	eP	04 54 19
	ipP	54 35
Nov. 20		
HH	e(P)	05 57 58
Nov. 20		
COL	iP	08 03 17
	eS	04 03
	eL	04 10
Nov. 20		
COL	iP	10 50 29
Nov. 20		
BH	iP	12 52 42
	iS	13 02 42
BC	eP	12 47 50
	e	48 10
	e(S)	53 54
	eL	57 59
BOZ	eP	12 47 19
	e	47 29
	e(S)	52 49
	eL	55 01
BUT	eP	12 47 14
	i	47 48
	e(S)	52 34
	eL	55 04
CHI	eS	12 56 35
	eL	13 01 39
COL	eP	12 43 44
	eS	46 18
	eL	47 01
COLU	iP	12 50 31
	iS	58 39
	e	13 01 10
	eSS	03 07
	eL	05 16
EUR	iP	12 47 25
	i	47 40
	eL	55 25
HONO	iP	12 47 04
	i	47 18
	iS	52 06
	eL	54 10
HH	eP	12 46 51
	i	46 54
	ePcP	49 45
	eS	52 01
	eL	54 27
PHIL	eP	12 50 29
	iS	58 26
	iScS	13 00 12
	eSS	02 18
	eL	05 14
RC	iP	12 48 04
	i	48 16
	ePP	49 55
	eS	54 15
	eL	57 19
SLC	eP	12 47 42
	i	47 55
	eS	53 32
	eL	56 20
SJ	iP	12 52 37
SIT	iP	12 44 26
	i	44 32
	i	45 06
	i	46 14
	iS	47 36
	i	48 00
	iL	48 24
TUC	iP	12 48 31
	i	48 34
	e	50 40
	iS	55 04
	iScS	58 32
	iL	13 01 18
UK	eP	12 46 49
	e	48 33
	iS	52 04
	eL	54 17
WASH	eP	12 50 24
	ePP	52 36
	eL	13 04 40
Nov. 20		
HONO	eP	13 21 38
Nov. 20		
EUR	eP	14 55 14
Nov. 20		
EUR	eP	15 58 28
Nov. 20		
COL	iP	16 25 18
HH	eP	16 27 18
Nov. 20		
EUR	e(P)	18 43 03
	eP	43 13
	eS	44 27
	eL	44 50
UK	eP	18 41 52
	i	41 57
	e(S)	42 23
	eL	42 29
Nov. 20		
EUR	eP	18 50 52
Nov. 20		
BC	eP	19 33 27
EUR	eP	19 34 07
RC	eP	19 35 05
Nov. 20		
EUR	eP	20 27 53
Nov. 20		
HH	eP	20 53 14
Nov. 21		
COL	eP	01 58 04
EUR	eP	02 01 35
TUC	eP	02 02 42
Nov. 21		
EUR	eP	04 21 53
Nov. 21		
BOZ	eP'	05 30 54
EUR	eP'	05 30 19
TUC	e(P')	05 31 32
Nov. 21		
EUR	eP	11 54 30
TUC	eP	11 53 35
Nov. 21		
EUR	iP	14 47 35
Nov. 21		
HH	eP	17 15 45
Nov. 21		
COL	eP	18 10 21
Nov. 21		
EUR	eP	19 25 45
Nov. 21		
EUR	eP	20 14 19
HH	eP	20 15 23
Nov. 22		
COL	eP	01 42 31
	iS	42 59
	iL	43 07
Nov. 22		
EUR	eP	04 06 51
Nov. 22		
HH	eP	07 10 52
Nov. 22		
EUR	eP	10 10 06
Nov. 22		
SLC	eP	11 55 05
	e	55 33
Nov. 22		
RC	eP	15 47 22
Nov. 22		
BC	eP	16 18 44
COL	iP	16 18 51
	i	19 02
TUC	eP	16 18 50
	e	19 29
Nov. 22		
COL	iP	18 12 10
HH	iP	18 14 26
	epP	16 05
RC	eP	18 15 09
Nov. 22		
COL	eP	21 23 01
	iS	23 47
	iL	23 56
Nov. 23		
BC	eP	01 04 19
COL	iP	01 00 20
HH	eP	01 03 24
	eS	10 41
RC	iP	01 04 29
TUC	eP	01 04 55
Nov. 23		
BC	iP	01 06 17
BOZ	iP	01 05 47
	i	06 00
	e	06 24
BUT	eP	01 05 38
	iPcP	08 06
COL	iP	01 02 23
	iS	06 01
	iL	06 50
COLU	iP	01 08 57
HH	iP	01 05 21
	iPcP	08 00
PHIL	e(P)	01 09 26
	eS	17 07
	eL	28 47
RC	iP	01 06 33
SLC	iP	01 06 07
	i	06 29
	ePcP	08 15
SJ	iP	01 11 01
SIT	iP	01 03 02

Date and Station		Phase (GCT) h m s
TUC	iP	01 06 59
	ePPP	09 35
	eS	13 27
	eSS	17 24
	eL	21 11
[illegible]	iP	01 05 18
	e	05 36
	e	06 07
Nov. 23		
SLC	eP	03 03 01
Nov. 23		
COL	eP	08 35 18
Nov. 23		
COL	iP	12 09 30
	iS	10 27
	iL	10 34
Nov. 23		
COL	eP	13 35 22
Nov. 23		
COL	iP	18 45 38
EUR	iP	18 49 06
HH	iP	18 48 36
TUC	eP	18 50 06
Nov. 23		
BOZ	eP	19 56 27
HH	eP	19 57 12
RC	eP	19 56 28
	i	57 04
Nov. 23		
COL	iP	20 41 54
Nov. 23		
COL	eP	22 17 29
EUR	iP	22 17 24
Nov. 24		
BOZ	eP	01 33 40
COL	eP	01 30 17
	iP	30 20
EUR	iP	01 33 44
HH	iP	01 33 15
RC	iP	01 34 22
SLC	eP	01 33 58
TUC	eP	01 34 43
Nov. 24		
HH	e(P)	03 32 37
Nov. 24		
EUR	eP	04 58 32

Date and Station		Phase (GCT) h m s
Nov. 24		
COL	iP	08 13 06
HH	iP	08 12 17
Nov. 24		
BUT	eP	09 52 04
COL	eP	09 50 27
EUR	eP	09 52 57
HH	eP	09 51 48
RC	eP	09 52 02
TUC	e(P)	09 53 44
Nov. 24		
COL	iP	10 30 58
	eS	31 38
	eL	31 42
Nov. 24		
COL	iP	15 01 49
Nov. 24		
EUR	iP	15 24 09
TUC	eP	15 25 15
Nov. 24		
COLU	iP	20 06 48
Nov. 25		
EUR	eP	00 14 56
TUC	eP	00 15 07
Nov. 25		
COL	eP	00 39 09
EUR	eP'	00 45 44
Nov. 25		
BC	iP	04 17 52
BOZ	eP	04 16 54
BUT	iP	04 16 44
	epP	17 06
COL	iP	04 11 49
COLU	eP	04 20 03
EUR	iP	04 17 21
	ipP	17 54
HH	iP	04 16 23
	ePcP	19 55
	eScP	23 25
RC	iP	04 17 49
SLC	eP	04 17 26
TUC	iP	04 18 32

Date and Station		Phase (GCT) h m s
Nov. 25		
EUR	iP	04 20 12
	ipP	20 38
Nov. 25		
EUR	eP	04 23 47
Nov. 25		
COL	iP	04 25 24
EUR	eP	04 28 54
	ipP	29 06
	eP'P'	58 11
HH	eP	04 28 23
	i	31 03
RC	eP	04 30 04
TUC	eP	04 30 13
Nov. 25		
BC	eP	07 44 28
COL	eP	07 40 42
EUR	iP	07 44 06
HH	iP	07 43 37
RC	eP	07 44 46
TUC	iP	07 45 07
Nov. 25		
COL	iP	09 23 03
COLU	iP	09 17 35
EUR	eP	09 19 09
HH	eP	09 19 52
	i	20 52
RC	eP	09 18 54
TUC	eP	09 17 57
Nov. 25		
EUR	eP	12 03 58
Nov. 25		
COL	eP	15 21 29
Nov. 25		
COL	iP	16 19 56
	eS	20 18
	eL	20 25
Nov. 25		
TUC	e(P)	16 58 45
	e	58 51
	e(S)	59 31
	eL	59 44
Nov. 25		
EUR	eP	17 00 48
Nov. 25		
EUR	eP	17 09 46

Date and Station		Phase (GCT) h m s
Nov. 25		
HH	e(P)	18 07 55
Nov. 25		
BC	e(P)	18 58 41
BOZ	iP	18 58 29
	e	58 44
BUT	eP	18 58 12
	i	58 47
COL	iP	19 00 19
EUR	iP	18 58 04
HH	eP	18 58 11
RC	iP	18 59 39
	eL	19 07 22
SLC	eP	18 58 33
TUC	iP	18 59 43
	iS	19 03 42
	eL	05 16
UK	eP	18 57 08
	eS	59 11
	eL	19 01 10
Nov. 25		
BC	eP	19 07 57
BUT	eP	19 09 01
COL	eP	19 09 40
	i	11 03
EUR	iP	19 07 18
	i	08 50
HH	eP	19 07 17
	e	08 49
RC	eP	19 08 56
	i	10 28
TUC	eP	19 09 03
	e	10 31
UK	e(P)	19 07 53
Nov. 25		
BC	e(P)	19 36 07
BOZ	eP	19 36 52
BUT	eP	19 36 39
EUR	iP	19 36 27
HH	eP	19 36 28
RC	iP	19 38 04
TUC	eP	19 38 08

Date and Station		Phase (GCT)
Nov. 25		h m s
BC	e(P)	19 37 05
EUR	iP	19 35 23
HH	e(P)	19 35 24
RC	e(P)	19 37 01
UK	eP	19 35 32
	e	41 18
Nov. 25		
EUR	eP	20 29 33
Nov. 25		
BC	eP	20 35 50
	i	35 57
BOZ	eP	20 35 39
COL	iP	20 37 27
EUR	eP	20 35 09
HH	iP	20 35 10
	e	37 23
RC	eP	20 36 49
	e	37 08
	eL	44 29
	iL	45 58
SLC	eP	20 35 45
TUC	eP	20 36 54
	i	37 02
	eS	40 48
	eL	42 16
UK	eP	20 34 15
	eS	36 29
	eL	37 11
Nov. 25		
BC	eP	22 20 35
BOZ	eP	22 20 20
	e	20 31
COL	eP	22 22 10
EUR	iP	22 19 55
HH	eP	22 19 52
RC	iP	22 21 32
SLC	eP	22 20 32
TUC	iP	22 21 38
	e(S)	25 32
	eL	30 15
UK	eP	22 19 00
	eS	21 11
	eL	22 20
Nov. 25		
BC	eP'	22 54 00

Date and Station		Phase (GCT)
		h m s
BOZ	eP'	22 53 56
COL	eP	22 48 22
EUR	iP'	22 53 54
	iPP	55 14
HH	e(P)	22 50 31
	iP'	53 49
	i	54 56
RC	iP'	22 54 05
	e	55 52
	e	23 02 19
SLC	eP'	22 53 58
SJ	eP'	22 55 07
	i	56 00
	e	59 44
TUC	iP'	22 54 09
	ePP	56 04
	eL	23 35 12
Nov. 25		
EUR	eP	23 04 06
	e	07 34
TUC	eP	23 05 02
Nov. 25		
EUR	eP	23 20 02
Nov. 26		
EUR	eP	00 23 58
HH	e(P)	00 24 30
	i	24 35
Nov. 26		
COL	eP	00 53 06
Nov. 26		
EUR	iP	02 02 44
HH	e(P)	02 02 32
Nov. 26		
COL	eP	04 10 32
Nov. 26		
BC	eP'	05 29 02
	iP'	29 07
BOZ	iP'	05 28 57
	e	30 20
BUT	eP'	05 29 00
COL	eP	05 23 23
	i	26 40
	iPP	27 09
COLU	iP'	05 29 39
EUR	iP'	05 28 56
	iPP	30 16
	ePKKP	39 08
	e	42 16
	i	42 55

Date and Station		Phase (GCT)
		h m s
HH	eP'	05 28 51
	ePP	29 57
RC	iP'	05 29 06
	i	29 11
	ePP	30 55
	e	32 29
SLC	eP'	05 29 00
SJ	eP'	05 30 08
	i	30 13
	i	31 04
	ePP	34 46
TUC	iP'	05 29 10
	ePP	31 06
	e(PKKP)	38 50
	eSP	41 34
	e	42 16
	e(PPS)	42 38
Nov. 26		
HH	eP	06 43 52
Nov. 26		
HH	iP	08 27 59
Nov. 26		
EUR	eP	10 53 13
HH	iP	10 52 41
Nov. 26		
EUR	eP	10 55 21
HH	iP	10 55 10
TUC	eP	10 54 17
Nov. 26		
EUR	eP	11 36 00
HH	eP	11 35 28
	i	35 56
	e	37 42
RC	eP	11 36 38
TUC	eP	11 37 01
Nov. 26		
BC	eP	11 44 10
BOZ	iP	11 43 45
	e	44 10
BUT	eP	11 43 34
COL	eP	11 40(29)
	eS	44(12)
COLU	iP	11 46 43
EUR	iP	11 43 47
HH	iP	11 43 17
	i	43 30
	iPcP	45 35

Date and Station		Phase (GCT)
		h m s
HH	eS	11 49 12
	eScS	53 33
PHIL	eS	11 55 24
	eL	12 09 28
RC	eP	11 44 25
	iP	44 26
	eS	51 27
SLC	eP	11 44 02
	i	44 30
TUC	iP	11 44 47
	eL	12 00 19
UK	eP	11 43 23
Nov. 26		
HH	eP	12 02 39
RC	eP	12 02 34
Nov. 26		
EUR	eP	12 20 21
Nov. 26		
EUR	eP	13 05 04
Nov. 26		
HH	eP	13 58 53
Nov. 26		
SIT	iP	14 41 07
Nov. 26		
BOZ	eP	15 10 31
	e	11 52
Nov. 26		
EUR	eP	18 27 14
HH	iP	18 27 38
	i	27 52
RC	e(P)	18 28 05
Nov. 26		
COL	eP	19 18 35
HH	eP	19 20 37
Nov. 26		
COL	iP	21 10 41
EUR	eP	21 14 07
HH	eP	21 13 35
Nov. 26		
BC	e(P)	22 08 08
	e	09 29
EUR	eP	22 08 09
	eS	10 11
	eL	10 51
RC	e(P)	22 11 54

Date and Station		Phase (GCT)
		h m s
TUC	eP	22 07 33
	i	07 36
	eS	08 08
	eL	08 16
Nov. 26		
COL	iP	22 45 13
EUR	eP	22 48 39
HH	eP	22 48 07
Nov. 26		
COLU	iP	23 29 07
EUR	eP	23 31 20
HH	eP	23 32 01
	iPcP	33 49
RC	eP	23 30 56
SLC	iP	23 31 12
SJ	iP	23 28 45
	i	29 11
TUC	eP	23 30 14
	eL	46 08
Nov. 27		
EUR	eP	02 18 11
Nov. 27		
COL	eP	02 26 50
EUR	eP	02 30 13
HH	eP	02 29 45
Nov. 27		
BOZ	eP	03 20 46
BUT	iP	03 20 47
COL	eP	03 19 53
COLU	iP	03 20 09
EUR	eP	03 21 20
HH	iP	03 20 40
RC	eP	03 20 36
Nov. 27		
COL	eP	03 28 36
Nov. 27		
COL	eP	03 33 29
EUR	eP	03 31 01
HH	eP	03 31 27
RC	eP	03 31 23
SJ	eP	03 25 21
	iS	27 39
TUC	eP	03 30 07

Date and Station		Phase (GCT)
		h m s
Nov. 27		
EUR	eP	03 51 01
TUC	eP	03 50 31
	e	50 34
Nov. 27		
COL	eP	05 34 18
HH	eP	05 36 49
Nov. 27		
COL	iP	08 47 14
	ipP	48 02
EUR	iP	08 47 33
	ipP	48 23
HH	eP	08 48 43
TUC	eP	08 47 43
	e	48 32
Nov. 27		
UK	eP	12 47 44
Nov. 27		
BUT	iP	14 08 27
	i	08 46
EUR	iP	14 08 11
HH	iP	14 08 34
	i	08 39
	i	09 20
RC	iP	14 07 56
SLC	eP	14 08 02
SJ	eP	14 03 55
TUC	iP	14 08 23
Nov. 27		
EUR	eP	16 40 00
Nov. 28		
COL	iP	03 20 12
COLU	eP	03 15 23
EUR	iP	03 17 41
	ipP	19 40
HH	iP	03 18 10
	epP	20 09
RC	iP	03 17 20
	epP	19 13
SLC	eP	03 17 30
TUC	iP	03 16 48
	epP	17 37
Nov. 28		
COL	eP	05 21 47
Nov. 28		
COL	eP	08 38 36

Date and Station		Phase (GCT)
		h m s
Nov. 28		
HH	e(P)	08 59 12
Nov. 28		
COL	eP	10 21 34
	iP	21 39
Nov. 28		
COL	iP	11 35 15
	eS	36 08
	iL	36 12
Nov. 28		
EUR	eP	13 12 13
Nov. 28		
COL	eP	15 43 11
Nov. 28		
BC	eP	21 03 07
COL	eP	21 02 53
EUR	iP	21 03 10
HONO	eP	20 59 03
	eS	21 06 08
	eL	10 36
HH	eP	21 03 29
	ePP	07 08
	ePKKP	20 37
TUC	iP	21 03 18
	ePP	07 33
	eS	13 40
	iPS	15 22
	eL	31 08
UK	eP	21 02 43
Nov. 28		
EUR	eP	21 44 22
TUC	eP	21 44 30
Nov. 28		
EUR	eP	21 50 20
HH	eP	21 49 50
Nov. 29		
HH	e(P)	07 15 26
Nov. 29		
EUR	eP	07 37 12
Nov. 29		
EUR	eP	09 03 10
HH	iP	09 01 44
	i	01 47
	iS	02 17
	iL	02 22
Nov. 29		
COL	eP	11 41 26
Nov. 29		
EUR	iP	12 04 48

Date and Station		Phase (GCT)
		h m s
TUC	eP	12 04 50
Nov. 29		
COL	iP	13 46 48
HH	iP	13 49 41
Nov. 29		
COL	eP	17 20 15
	eS	21 37
	eL	21 54
Nov. 29		
BOZ	eP'	18 03 10
	ePP	06 22
COL	eP'	18 02 52
EUR	eP'	18 03 03
HH	eP'	18 03 08
	ePP	06 25
RC	eP'	18 03 21
	i	03 24
Nov. 29		
HH	e(P)	20 34 48
Nov. 29		
COL	eP	21 32 38
HH	eP	21 35 51
Nov. 29		
COL	iP	21 55 23
EUR	eP	21 54 56
Nov. 29		
BC	iP	22 30 48D
	i	30 54
	eS	40 02
	eL	45 52
BOZ	iP	22 31 17D
	ipP	32 19
	e	35 27
	i	35 46
	iS	40 51
	isS	42 35
	eL	51 03
	eP'P'	58 11
	eP'P'P'	23 18 12
	i	19 22
BUT	iP	22 31 22D
	ipP	32 14
	ePP	34 23
	ePPP	35 46
	iS	41 02
	isS	42 38
	e	46 10
	iPKKP	49 37
	eL	50 59
	eP'P'	58 18
	i	59 30
	iP'P'P'	23 18 19

Date and Station		Phase	(GCT)
			h m s
BUT	i		23 19 19
CHI	iP		22 30 06S,E
	ipP		31 02
	iS		37 22
	i		38 34
	isS		40 22
	eL		42 50
COL	eP		22 33 26C
	iP		33 30
	ipP		34 13
	isP		34 33
	iP'		37 32
COLU	iP		22 29 02D
	iS		36 32
	isS		37 59
	iL		40 58
	iP'P'		59 05
EUR	iP		22 31 06D
HONO	iP		22 33 05D
	iPP		37 12
	eSKS		43 27
	iS		44 30
	i		45 16
	isS		46 11
	i		47 59
	e(SS)		51 05
	eL		23 01 40
HH	iP		22 31 34C
	ipP		32 37
	iPP		34 52
	e		40 25
	iS		41 24
	esS		42 43
	i		43 14
	isPS		43 30
	e		43 59
	e		45 26
	i(PKKP)		50 15
	i		50 21
	iP'P'		58 02
	i		58 20
	e		23 00 47
	iSKPP'		01 28
	e		02 50
	eP'P'P'		18 07
PHIL	iP		22 29 42
	ipP		30 33
	e		32 54
	ePPP		33 36
	iPPP		33 40
	i		35 00
	iS		37 33
	isS		39 02
	i		39 39
	i		40 54
	eL		44 12
	iSKPP'		23 22 18
RC	iP		22 30 49
	ipP		31 59
	iS		40 03
	isPS		41 44
RC	e(SS)		22 45 18
	i		47 21
	e		49 54
	eL		53 00
	iP'P'		58 15
SLC	iP		22 30 59D
	iS		40 23
	iL		50 07
SJ	iP		22 26 48D
	ipP		27 52
	isP		28 16
	i		28 42
	i		29 42
	i		30 18
	iS		32 30
	iL		34 08
SIT	iP		22 32 50C
	isP		33 59
	ePP		36 48
	iPP		36 50
	isPP		37 50
	e		38 07
	iS		43 44
	ipS		45 00
	isPS		47 00
	i		48 19
	iSS		50 28
	isSS		52 03
	iSSS		54 12
	eL		59 47
TUC	iP		22 30 19D
	ipP		30 58
	ePP		33 03
	iS		39 02
	esS		40 08
	eSS		43 37
	e		45 20
	iL		47 30
	iP'P'		58 44
	i		59 48
	eP'P'P'		23 17 33
UK	iP		22 31 28D
	i		31 34
	e		35 34
	iS		41 20
	isSS		46 54
	e(SSS)		48 18
	e(PKKP)		50 24
	eL		54 24
	iP'P'		58 26
	eP'P'P'		23 18 30
WASH	iP		22 29 36
	ipP		30 18
	iPP		31 36
	iS		37 36
	iSSS		44 20
	iP'P'		58 42
Nov. 29			
EUR	eP		23 17 51
Nov. 29			
HH	iP		23 30 06
HH	iS		23 30 37
	iL		30 42
Nov. 30			
COLU	iP		00 01 26
Nov. 30			
EUR	eP		01 43 07
Nov. 30			
COL	eP		02 20 00
EUR	iP		02 19 22
	i		19 37
	i		20 06
	i		22 43
	i		23 51
HH	e(P)		02 21 42
TUC	iP		02 19 35
Nov. 30			
EUR	eP		08 27 49
Nov. 30			
HH	eP		12 49 38
Nov. 30			
EUR	eP		13 51 49
Nov. 30			
BOZ	iP		15 47 58
	i		48 14
Nov. 30			
HH	iP		15 58 34
	iS		59 04
	iL		59 09
Nov. 30			
COL	eP		16 11 15
EUR	eP		16 11 06
Nov. 30			
BOZ	eP		17 50 09
BUT	eP		17 50 01
COL	iP		17 47 00
EUR	iP		17 50 49
HH	iP		17 49 42
	e		51 55
RC	eP		17 50 21
Nov. 30			
EUR	iP		19 41 55
HH	iP		19 42 22
	e		43 18
TUC	eP		19 41 06
	e		43 11
Nov. 30			
BC	iP		20 38 56
BOZ	eP		20 38 29
BUT	eP		20 38 22
COL	iP		20 35 07
EUR	iP		20 38 38
HH	iP		20 38 06
RC	iP		20 39 03
TUC	iP		20 39 28
Nov. 30			
COL	iP		21 44 13
	i		44 25
EUR	eP		21 47 40
HH	e(P)		21 47 10
RC	eP		21 48 07
TUC	e(P)		21 48 43
Nov. 30			
BC	eP		22 04 57
BOZ	eP		22 04 31
	e		04 58
	ePcP		05 15
BUT	eP		22 04 24
	e		04 49
	ePcP		05 08
COL	iP		22 01 10
	i		01 24
	i		02 48
EUR	iP		22 04 36
	iPcP		05 30
HH	eP		22 04 08
RC	iP		22 05 03
TUC	eP		22 05 29
Nov. 30			
COL	iP		23 10 28
EUR	iP		23 12 59
HH	iP		23 12 42
TUC	eP		23 13 35

LOCAL AND MINOR EARTHQUAKES

Date and Station	Hour (G.C.T.)
BOZ	
Nov.	
29	09.0
BUT	
Nov.	
1	20.9
3	17.0
6	16.2
11	08.2
12	09.0
17	02.5
20	18.4
	21.1
21	04.2
23	08.4
30	16.0
COL	
Nov.	
1	11.8
2	04.6
4	06.1
	22.2
7	14.6
	15.2
12	07.6
17	04.4
18	10.2
	13.2
	18.2
19	11.5
21	14.1
28	17.4
EUR	
Nov.	
1	15.6
13	04.8
19	01.9
29	20.2
HONO	
Nov.	
4	20.8
	21.3
	21.7
16	11.5
20	01.7
23	01.7
SLC	
Nov.	
1	15.6
15	14.2
	16.7
SJ	
Nov.	
2	17.9
4	16.7
5	13.1
16	22.5 (2)
18	06.8
19	23.6
20	01.1
	05.1
	12.5

Date and Station	Hour (G.C.T.)
SJ	
Nov.	
20	19.4
	21.7
25	03.4
TUC	
Nov.	
2	02.5
	12.0
3	01.9
5	12.4
6	02.0
	10.8
7	03.6
	05.7
8	01.6
	08.2
	09.2
	10.4
10	02.3
12	05.1
	05.5
	23.2
13	08.3
	08.5
14	08.3
	12.1
15	03.8
	14.2
16	22.7
	22.9
	23.1
	23.2
17	00.0
	00.3
	00.9
	01.0
	01.1
	01.3
	01.8
	03.0
	07.0
	07.2
	07.9
	08.0
	09.0
	18.3
	18.6
	19.6
18	00.0
	02.2
	04.3
	06.0
	10.1
	10.8
	23.4
19	00.9
	05.3
	07.9
	09.8
20	00.8
	03.1
	08.2
21	03.2
	06.4
	08.1

Date and Station	Hour (G.C.T.)
TUC	
Nov.	
22	09.4
	10.4
	12.4
	21.3
	22.3
25	10.1
	17.1
29	00.6
	04.9
	11.1
	11.2
	11.3
UK	
Nov.	
1	20.9
2	08.3

Date and Station	Hour (G.C.T.)