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U.S. 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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March 4, 2011

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

**Balboa Heights, C. Z. (BH)
The Panama Canal
*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
*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)
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.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
1	10 12 09*	5 S.	153 E.	New Britain region.
1	15 14 18**			Loyalty Islands.
1	23 46 10*	39-1/2 N.	144 E.	Off east coast of Honshu, Japan.
2	04 52 11**			Kermadec Islands.
2	07 37 54**			Near north coast of Honshu, Japan.
2	18 36 00*	5 N.	126 E.	Off south coast of Mindanao, Philippine Islands.
2	19 40 06*	36 N.	121 W.	Monterey County, California. Felt from Monterey to San Luis Obispo. Mag. 4-1/2.
3	12 39 56**			Bolivia-Chile border. h about 100 km.
4	22 43 50*	33-1/2 S.	69-1/2 W.	Mendoza Province, Argentina. Minor damage at Talca, Chile. h about 100 km. Mag. 6.7.
5	03 53 38*	19-1/2 S.	169 E.	New Hebrides Islands. h about 150 km.
5	07 19 23*	24-1/2 N.	109 W.	Southern Gulf of California.
5	08 09 51*	24-1/2 N.	109 W.	Gulf of California aftershock.
5	08 40 17**			Southwestern Bolivia.
5	12 23 15**			Off east coast of Mindanao, Philippine Islands.
6	22 07 33*	25-1/2 S.	177-1/2 W.	Kermadec Islands region. h about 100 km.
6	23 57 10*	7 N.	71 W.	Colombia-Venezuela border. h about 100 km.
7	07 33 52*	17 S.	179-1/2 E.	Fiji Islands. h about 600 km.
9	21 58 45**			Near east coast of Madagascar.
10	01 24 20*	5 S.	152 E.	New Britain region.
10	01 44 04*	15 S.	174 W.	Samoa Islands. h about 100 km. Mag. 7 - 7-1/4.
10	03 58 46*	47-1/2 N.	152-1/2 E.	Kurile Islands.
10	05 10 20*	28-1/2 S.	178-1/2 W.	Kermadec Islands region.
10	08 52 20*	24 S.	67 W.	Salta Province, Argentina. Felt at Antofagasta, Chile. h about 200 km.
11	08 31 11**			South Atlantic Ocean, about 400 miles north of Tristan da Cunha.
11	10 37 03**			Tonga Islands region.
11	18 27 34**			Western Turkey.
12	05 32 14*	25-1/2 N.	34-1/2 E.	Northern Red Sea. Felt at Cairo, Egypt.
12	10 07 47*	5 S.	152-1/2 E.	New Britain. h about 60 km.
12	11 12 15*	10 N.	126 E.	Near north coast of Mindanao, Philippine Islands.
12	12 19 44*	22-1/2 S.	179 E.	South of Fiji Islands. h about 600 km.
12	13 43 00**			New Britain region.
12	15 45 34*	17-1/2 S.	167-1/2 E.	New Hebrides Islands region.
12	22 54 37*	7 N.	82-1/2 W.	South of Panama.
13	07 51 10**			Southern Gulf of California.
13	22 43 40**			Fiji Islands region.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
13	23 07 08*	33-1/2 S.	179-1/2 W.	Kermadec Islands region. h about 100 km.
14	01 15 56*	17-1/2 N.	146 E.	Marianas Islands. h about 100 km.
14	03 09 10*	14 S.	167 E.	New Hebrides Islands. h about 200 km.
14	13 08 07*	5-1/2 S.	152-1/2 E.	Near coast of New Britain.
14	13 23 09*	17-1/2 N.	145-1/2 E.	Marianas Islands. h about 150 km.
15	03 16 32*	5 S.	154 E.	Solomon Islands region.
15	10 06 49*	55-1/2 N.	155 W.	Off south coast of Alaska Peninsula. Mag. 6-1/4 - 6-1/2.
15	22 10 53*	43-1/2 N.	87 E.	Sinkiang Province, China.
16	09 05 54**			Sandwich Islands.
16	14 33 57**			Andreanof Islands, Aleutian Islands.
16	23 54 04*	84 N.	2 E.	Arctic Ocean, northeast of Greenland. Correction: Card No. 93-55.
17	03 44 05*	5 S.	154 E.	Solomon Islands region.
17	06 53 27*	26-1/2 S.	69 W.	Northern Chile. Felt at Copiapo. h about 60 km. Mag. 6-3/4.
17	23 35 43**			Kenai Peninsula, Alaska.
18	03 26 53**			Off coast of Peru.
18	07 05 26*	15 S.	173 W.	Samoa Islands region. Felt at Apia.
18	21 56 10*	21 S.	173 W.	Tonga Islands.
19	05 39 08*	14 S.	179 W.	Fiji Islands region.
19	08 25 32*	17-1/2 S.	168 E.	New Hebrides Islands.
19	23 03 01**			Solomon Islands.
21	20 25 34.5	39.4 N.	118.0 W.	Fallon, Nevada. Mag. 5-1/2.
21	20 55 30*	35-1/2 N.	118-1/2 W.	Southern California. Felt at Bakersfield. Mag. 4-1/2.
21	21 04 00*	38 S.	178 E.	Near east coast of North Island, New Zealand. Felt.
22	03 24 00*	24-1/2 S.	123 W.	Eastern Tuamotu Archipelago. Mag. 6-3/4 - 7.
22	17 05 22**			New Britain.
23	00 04 40**			Southern Colombia. Felt.
23	02 33 47*	26-1/2 N.	90 E.	Bhutan-Pakistan border.
23	03 14 36*	14 N.	90 W.	Near coast of Guatemala. h about 150 km.
23	06 29 29*	50-1/2 N.	157 E.	Near south coast of Kamchatka. h about 60 km. Mag. 7.1.
24	04 51 20*	19 N.	120-1/2 E.	Near north coast of Luzon, Philippine Islands. Felt at Calayan, Aparri and Laoag.
24	11 10 32*	51 N.	157 E.	Near south coast of Kamchatka.
25	08 33 13*	43 N.	143 E.	Hokkaido, Japan. Felt in Hokkaido and northern Honshu.
25	14 24 26**			Alaska Peninsula.
25	16 49 30**			Do.
26	13 24 47**			Santa Cruz Islands.
26	17 36 00*	32 N.	116 W.	Northern Lower California. Felt in Imperial Valley and San Diego. Mag. 5-1/4 - 5-1/2.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Nov.	h m s	° '	° '	
27	07 05 07*	24-1/2 S.	177-1/2 W.	Tonga Islands region. h about 100 km.
27	13 06 50*	57-1/2 N.	156-1/2 W.	Alaska Peninsula.
27	17 17 24*	19 N.	145 E.	Marianas Islands. h about 600 km.
27	19 30 35*	23 N.	124-1/2 E.	Off east coast of Formosa.
27	21 29 05**			Banda Sea. h about 500 km.
28	01 30 26**			Near east coast of Kamchatka.
28	04 24 43**			Andreanof Islands. Aleutian Islands.
28	18 21 39**			Samoa Islands region.
29	03 57 57*	19-1/2 N.	121 E.	Off north coast of Luzon, Philippine Islands. Felt at Calayan and Aparri.
29	06 04 52*	37-1/2 N.	34 W.	Azores region.
29	09 31 12*	5 S.	153-1/2 E.	Solomon Islands.
29	16 24 05*	18-1/2 S.	175-1/2 W.	Tonga Islands region. h about 200 km.
29	19 22 33**			Central Kamchatka.
30	00 09 51*	21 S.	174-1/2 E.	Fiji Islands region.
30	06 25 50**			Do.
30	08 46 50**			Southern Yukon, Canada.
30	17 14 36*	11 S.	166 E.	Santa Cruz Islands.

Date and Station		Phase (GCT) h m s
Nov. 1		
EUR	eP	00 35 37
HH	e(P)	00 33 08
Nov. 1		
EUR	eP	02 58 06
Nov. 1		
EUR	eP	04 46 09
	e	46 40
Nov. 1		
EUR	eP	06 22 58
Nov. 1		
BOZ	eP	06 41 50
	e	42 38
EUR	eP	06 41 39
	i	42 26
HH	iP	06 42 09
	e	42 58
SLC	e(P)	06 41 32
Nov. 1		
HH	eP	07 57 03
	i	57 15
Nov. 1		
EUR	eP	08 23 23
	e	23 26
Nov. 1		
COL	eP	09 00 04
Nov. 1		
BOZ	eP	10 25 48
COL	iP	10 24 30
	i	24 49
EUR	iP	10 25 31
	i	25 54
	e	26 26
	i(PP)	29 48
HH	e(P)	10 25 38
SJ	eP'	10 31 42
Nov. 1		
COL	eP	10 48 26
EUR	eP	10 52 23
Nov. 1		
EUR	e(P)	11 05 02
Nov. 1		
EUR	eP	11 26 10
Nov. 1		
COL	eP	11 52 23

Date and Station		Phase (GCT) h m s
Nov. 1		
COL	eP	12 14 34
Nov. 1		
EUR	eP	12 36 03
Nov. 1		
COL	iP	12 40 54
	i	41 15
	i	42 33
Nov. 1		
COL	eP	15 27 23
Nov. 1		
COL	eP	16 43 01
EUR	iP	16 46 57
Nov. 1		
COL	eP	17 30 41
Nov. 1		
EUR	eP	17 52 10
Nov. 1		
COL	eP	21 38 07
EUR	iP	21 42 02
Nov. 1		
COL	iP	22 53 22
Nov. 1		
BOZ	eP	23 15 48
Nov. 1		
BC	eP	23 52 42
	e	58 32
BUT	eP	23 53 17
COL	eP	23 54 35
	i	54 41
	eS	00 01 13
	eScS	04 39
	e	09 46
	eL	12 12
EUR	iP	23 52 39
HH	eP	23 53 37
TUC	eP	23 51 25
Nov. 1		
BOZ	eP	23 57 39
BUT	eP	23 57 40
EUR	eP	23 57 43
HH	eP	23 57 17
Nov. 2		
COL	eP	00 58 14
EUR	iP	01 02 10

Date and Station		Phase (GCT) h m s
Nov. 2		
EUR	iP	02 28 38
Nov. 2		
BC	iP	05 05 40
COL	eP	05 05 50
EUR	iP	05 05 16
TUC	iP	05 05 13
Nov. 2		
BOZ	e(P)	06 18 01
BUT	eP	06 17 43
	eS	19 13
	eL	19 25
EUR	iP	06 15 45
	iL	17 43
HH	e(P)	06 17 40
	e	18 18
	eL	20 14
SLC	eP	06 16 48
	eS	17 47
	eL	17 55
TUC	e(P)	06 17 40
	eL	18 13
Nov. 2		
COL	eP	07 19 13
EUR	eP	07 22 07
Nov. 2		
EUR	eP	07 32 48
TUC	e(P)	07 32 07
Nov. 2		
BOZ	e(P)	07 42 55
Nov. 2		
COL	eP	07 46 18
	i	46 25
EUR	eP	07 49 28
HH	iP	07 49 02
Nov. 2		
COL	eP	08 54 32
	ipP	54 48
EUR	eP	08 55 28
	epP	55 43
Nov. 2		
EUR	eP	09 39 09
Nov. 2		
EUR	eP	11 18 05

Date and Station		Phase (GCT) h m s
Nov. 2		
EUR	eP	12 58 58
Nov. 2		
EUR	eP	14 16 11
Nov. 2		
EUR	eP	17 11 50
Nov. 2		
EUR	eP	17 28 24
Nov. 2		
BC	eP	17 48 43
EUR	iP	17 46 00
	iS	46 22
	iL	46 49
Nov. 2		
COL	iP	18 48 33
EUR	eP	18 50 26
	eP'	54 33
HONO	eP	18 47 48
HH	eP	18 50 15
SJ	ePP	18 56 04
	i	56 17
	i	56 38
Nov. 2		
EUR	iP	19 06 01
Nov. 2		
BC	eP	19 41 25
	i	41 38
	iS	42 40
	iL	43 15
BUT	eP	19 43 04
	eL	46 23
EUR	iP	19 41 29
	iL	43 02
HH	iP	19 43 22
	eL	47 18
SLC	eP	19 42 17
	e(S)	44 34
	eL	45 06
TUC	eP	19 42 24
	eL	45 07
Nov. 2		
COL	iP	20 09 25
EUR	eP	20 09 42
Nov. 2		
EUR	iP	20 43 01

Date and Station		Phase (GCT) h m s
Nov. 3		
EUR	eP	00 44 23
Nov. 3		
EUR	iP	01 05 17
Nov. 3		
HH	e(P)	01 41 22
	e	43 16
	eL	43 22
Nov. 3		
EUR	e(P)	03 03 49
	i	03 59
Nov. 3		
EUR	iP	04 39 01
Nov. 3		
EUR	e(P)	06 06 43
	e	07 10
HH	e(P)	06 07 05
Nov. 3		
EUR	iP	07 06 53
Nov. 3		
COL	eP	07 48 56
Nov. 3		
EUR	iP	10 07 28
Nov. 3		
EUR	iP	11 53 46
Nov. 3		
BC	iP	12 51 18
	epP	51 46
	e(sP)	52 01
BOZ	eP	12 51 52
	esP	52 33
BUT	eP	12 51 54
	ipP	52 24
COL	eP	13 00 41
COLU	eP	12 49 36
	ipP	50 04
	eL	13 07 17
EUR	iP	12 51 36
	ipP	52 05
HH	iP	12 52 06
	ipP	52 36
SLC	eP	12 51 29
SJ	iP	12 47 24
	i	47 33
	ipP	47 51
TUC	iP	12 50 47
	e	52 36

Date and Station		Phase (GCT) h m s
Nov. 3		
EUR	iP	13 48 58
Nov. 3		
COL	eP	14 26 09
Nov. 3		
EUR	eP	17 47 18
Nov. 3		
EUR	eP	19 45 36
Nov. 3		
EUR	iP	22 06 07
	e	08 31
Nov. 4		
COL	eP	02 06 16
	ipP	06 44
EUR	eP	02 06 41
	e	07 47
Nov. 4		
COL	eP	02 24 10
EUR	iP	02 28 07
Nov. 4		
COL	eP	02 55 57
Nov. 4		
HH	e(P)	05 33 59
Nov. 4		
COL	eP	06 50 13
EUR	eP	06 54 10
	i	54 13
Nov. 4		
COL	iP	08 54 12
Nov. 4		
COL	eP	13 19 35
EUR	iP	13 23 33
Nov. 4		
EUR	eP	16 06 32
Nov. 4		
COL	eP	20 13 36
EUR	eP	20 14 17
	i	14 52
Nov. 4		
BC	iP	22 56 09D
BOZ	eP	22 56 42C
	iP	56 45
	i(pP)	57 15
	ePP	23 00 13
	epPP	00 47
BUT	eP	22 56 45
	e	59 29

Date and Station		Phase (GCT) h m s
CHI	eP	22 55 46
	e	56 24
	eS	23 05 26
	eScS	05 50
	eL	16 34
COL	eP	22 58 46
	eP'	23 02 30
	i	02 31
	ePP	03 29
	epPP	04 08
	e	05 21
	e(SKS)	09 34
	eSS	19 27
	esSS	20 26
	eL	28 04
COLU	iP	22 54 55
	ipP	55 33
	esPP	58 10
	iS	23 03 54
	isS	04 34
	eL	12 06
EUR	iP	22 56 27D
	i	56 44
	ipP	56 58
	e	57 28
	ePP	59 41
HH	iP	22 56 56D
	ipP	57 24
	ePP	23 00 20
	eSKS	07 19
	e(S)	08 04
	e(PKKP)	15 02
PHIL	eS	23 05 01
	eScS	05 16
	esS	05 43
	eSSS	13 08
	eL	16 50
RC	iP	22 56 22
	epP	56 52
	eS	23 06 39
	esS	07 21
	e(SS)	16 55
SLC	eP	22 56 22C
	i(sP)	57 07
	ePP	59 58
	eS	23 06 39
	esS	07 18
	e	09 06
	eSS	13 26
	eL	23 34
SJ	iP	22 53 05D
	ipP	53 35
	ePP	55 10
	epPP	55 42
	eS	23 00 24
	e	00 51
	esS	01 13
	e	03 26
	eSS	04 15
	eL	05 35

Date and Station		Phase (GCT) h m s
TUC	iP	22 55 42D
	i	56 18
	ePS	23 06 14
	eL	19 16
Nov. 5		
SJ	e(P)	01 18 44
Nov. 5		
COL	eP	02 48 41
Nov. 5		
EUR	e(P)	03 39 28
HH	e(P)	03 40 54
Nov. 5		
COL	eP	03 56 11
EUR	e(P)	03 54 32
HH	eP	03 55 55
Nov. 5		
EUR	eP	04 00 09
Nov. 5		
BC	iP	04 06 30
COL	iP	04 06 27
	epP	06 56
	isP	07 15
EUR	iP	04 06 33
	iPP	10 11
	ePKKP	23 09
HH	eP	04 06 53
	ePP	10 48
	ePKKP	23 46
	e	24 38
SJ	eP'	04 12 29
TUC	iP	04 06 37
Nov. 5		
BC	iP	07 22 26
	eL	27 51
BOZ	eP	07 24 14
	i	24 28
	iPP	24 45
	eL	30 38
BUT	eP	07 24 17
	eS	28 31
	eL	30 35
COL	eP	07 27 30
	i	28 00
COLU	eP	07 25 00
	eL	34 08
EUR	iP	07 25 13
	eL	29 57
	i	31 30

Date and Station		Phase (GCT) h m s
HH	iP	07 24 40
	iS	28 28
	eL	29 06
RC	eP	07 24 01
	eS	27 34
	eL	30 11
SLC	iP	07 23 17
	e(S)	28 00
	eL	28 08
SJ	eP	07 27 02
	i	27 08
TUC	eP	07 21 22
	iL	23 28
Nov. 5		
BC	eP	08 12 55
	eL	17 09
BOZ	eP	08 14 43
BUT	eP	08 14 46
	eL	22 12
COL	iP	08 18 28
COLU	e(P)	08 15 27
EUR	iP	08 13 43
	eL	18 38
HH	iP	08 15 09
	e(PcP)	18 49
RC	eP	08 14 28
	eL	20 56
SLC	eP	08 13 48
	i	13 58
	i	14 10
	eL	18 55
SJ	iP	08 17 30
	i	17 37
TUC	eP	08 11 49
	eL	14 32
Nov. 5		
EUR	eP	08 36 47
HH	eP	08 36 00
	e	37 30
Nov. 5		
BOZ	eP	08 52 08
EUR	eP	08 51 53
HH	iP	08 52 24
SJ	iP	08 47 29
Nov. 5		
BC	eP	08 54 50

Date and Station		Phase (GCT) h m s
COL	iP	08 57 59
EUR	iP	08 56 14
HH	iP	08 56 09
TUC	eP	08 54 23
Nov. 5		
COL	eP	11 34 01
EUR	iP	11 37 58
Nov. 5		
COL	e(P)	12 35 30
Nov. 5		
COL	e(P)	14 14 03
Nov. 5		
COL	eP	14 15 38
EUR	iP	14 19 36
Nov. 5		
COL	iP	15 05 04
	i(pP)	06 06
EUR	e(P)	15 05 23
Nov. 5		
EUR	eP	16 27 36
Nov. 5		
EUR	eP	16 42 14
Nov. 5		
EUR	eP	17 31 28
HH	eP	17 31 36
Nov. 5		
EUR	eP	17 39 48
	e	41 10
Nov. 5		
TUC	e(P)	17 54 14
Nov. 5		
EUR	eP	18 46 13
Nov. 5		
COL	eP	19 31 04
EUR	iP	19 34 59
SLC	e(P)	19 35 12
Nov. 5		
EUR	eP	20 00 50
Nov. 5		
EUR	eP	20 46 52
Nov. 5		
BOZ	e(P)	21 03 27
EUR	eP	21 06 51

Date and Station		Phase (GCT) h m s
Nov. 5		
EUR	eP	21 41 29
Nov. 5		
EUR	eP	23 11 01
Nov. 5		
EUR	eP	23 31 58
Nov. 5		
EUR	eP	23 48 19
Nov. 6		
EUR	eP	02 55 18
Nov. 6		
EUR	eP	04 01 49
Nov. 6		
HH	eP	05 32 09
Nov. 6		
EUR	eP	06 15 25
Nov. 6		
EUR	eP	06 28 46
HH	iP	06 28 11
Nov. 6		
EUR	iP	07 11 21
Nov. 6		
EUR	eP	07 22 29
Nov. 6		
BOZ	e(P)	07 45 47
EUR	iP	07 40 07
HH	iP	07 40 05
Nov. 6		
COL	eP	10 38 34
Nov. 6		
EUR	eP	10 46 30
Nov. 6		
EUR	eP	11 08 28
Nov. 6		
EUR	eP	11 13 28
Nov. 6		
EUR	eP	12 00 23
Nov. 6		
COL	eP	12 20 05
EUR	iP	12 24 00
Nov. 6		
EUR	eP	12 53 31
Nov. 6		
EUR	eP	13 07 53

Date and Station		Phase (GCT) h m s
Nov. 6		
EUR	eP	13 16 26
Nov. 6		
COL	eP	14 30 11
EUR	eP	14 33 16
Nov. 6		
EUR	iP	14 36 08
Nov. 6		
EUR	eP	14 40 27
Nov. 6		
EUR	eP	16 13 54
Nov. 6		
EUR	eP	17 40 27
Nov. 6		
EUR	eP	18 03 36
Nov. 6		
EUR	iP	18 16 12
Nov. 6		
EUR	eP	18 18 34
Nov. 6		
EUR	eP	18 47 23
Nov. 6		
EUR	eP	19 40 08
Nov. 6		
EUR	eP	20 26 41
Nov. 6		
EUR	eP	20 55 32
Nov. 6		
EUR	eP	21 40 05
Nov. 6		
HH	eP	21 53 25
Nov. 6		
BC	eP	22 20 05
	ipP	20 34
COL	eP	22 20 41
EUR	eP	22 20 11
	ipP	20 37
TUC	e(P)	22 20 08
	ipP	20 37
Nov. 6		
HH	e(P)	22 41 20
Nov. 6		
EUR	eP	22 57 04
Nov. 6		
EUR	eP	23 59 31

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Date and Station		Phase (GCT)
		h m s
Nov. 7		
COL	eP	00 03 37
Nov. 7		
BC	eP	00 05 52
	epP	06 17
COL	eP	00 09 04
EUR	iP	00 06 10
	ipP	06 36
HH	eP	00 06 35
	iPcP	07 39
SJ	eP	00 00 05
TUC	eP	00 05 15
	epP	05 39
Nov. 7		
EUR	iP	00 07 34
Nov. 7		
EUR	eP	00 18 53
Nov. 7		
EUR	eP	00 54 43
Nov. 7		
EUR	eP	01 40 49
Nov. 7		
EUR	eP	02 16 48
Nov. 7		
EUR	iP	02 46 20
Nov. 7		
EUR	eP	04 15 35
Nov. 7		
EUR	eP	05 20 21
Nov. 7		
EUR	eP	05 47 39
Nov. 7		
EUR	eP	06 12 02
Nov. 7		
EUR	eP	07 09 02
Nov. 7		
BC	iP	07 45 13
BUT	eP	07 45 44
COL	iP	07 45 36
EUR	iP	07 45 17
	epP	47 25
HH	iP	07 45 44
	e	46 03
	iPKKP	08 03 26
SLC	eP	07 45 35

Date and Station		Phase (GCT)
		h m s
TUC	iP	07 45 20
Nov. 7		
EUR	eP	07 52 17
Nov. 7		
COL	eP	08 10 00
EUR	eP	08 11 01
Nov. 7		
COL	eP	08 10 00
EUR	iP	08 13 56
HH	e(P)	08 13 19
Nov. 7		
EUR	eP	08 20 11
Nov. 7		
EUR	eP	08 30 41
Nov. 7		
EUR	eP	09 02 42
Nov. 7		
EUR	eP	09 26 09
Nov. 7		
EUR	eP	09 52 03
Nov. 7		
EUR	eP	10 41 32
Nov. 7		
EUR	eP	11 05 09
Nov. 7		
EUR	eP	11 24 28
Nov. 7		
EUR	eP	12 02 35
Nov. 7		
EUR	eP	12 19 22
Nov. 7		
EUR	eP	12 24 57
Nov. 7		
EUR	eP	12 27 27
	iP	27 28
Nov. 7		
EUR	eP	12 59 27
Nov. 7		
EUR	eP	13 20 55
Nov. 7		
EUR	eP	13 36 17
Nov. 7		
BOZ	eP	13 56 42
COL	eP	13 53 13

Date and Station		Phase (GCT)
		h m s
EUR	eP	13 56 44
	i	56 55
HH	iP	13 56 13
	i	56 23
	e	58 45
Nov. 7		
EUR	eP	14 41 59
Nov. 7		
EUR	eP	15 00 37
Nov. 7		
COL	eP	15 19 49
EUR	iP	15 23 42
Nov. 7		
HH	e(P)	17 00 07
Nov. 7		
COL	eP	22 09 52
Nov. 7		
COL	iP	23 05 57
	i	06 05
	i	06 17
HH	eP	23 09 28
Nov. 8		
COL	eP	01 45 35
Nov. 8		
SLC	e(P)	02 44 06
TUC	e(P)	02 45 20
Nov. 8		
HH	iP	05 34 22
SLC	e(P)	05 37 53
Nov. 8		
COL	eP	06 51 31
Nov. 8		
COL	iP	08 42 55
Nov. 8		
HH	e(P)	08 51 49
Nov. 8		
COL	eP	09 10 40
SLC	e(P)	09 14 28
Nov. 8		
COL	e(P)	15 46 54
EUR	iP	15 50 50
HH	eP	15 50 14
Nov. 8		
COL	eP	20 39 01

Date and Station		Phase (GCT)
		h m s
EUR	iP	20 42 58
Nov. 8		
COL	eP	22 54 41
EUR	e(P)	23 01 41
Nov. 8		
HH	i(P)	23 08 26
Nov. 8		
COL	iP	23 26 06
Nov. 9		
EUR	eP	04 16 25
	i	16 53
Nov. 9		
COL	iP	06 30 19
EUR	iP	06 32 23
	i	33 12
HH	iP	06 32 15
	e	33 01
Nov. 9		
EUR	eP	07 02 21
Nov. 9		
EUR	e(P)	08 26 25
	e	27 46
Nov. 9		
COL	eP	10 01 19
EUR	iP	10 05 17
HH	e(P)	10 04 37
Nov. 9		
COL	eP	11 41 29
EUR	iP	11 45 27
Nov. 9		
COL	eP	15 42 22
EUR	eP	15 46 20
Nov. 9		
HH	eP	15 56 31
Nov. 9		
COL	eP	18 29 46
EUR	iP	18 33 43
Nov. 9		
EUR	iP	18 41 59
Nov. 9		
EUR	eP	20 28 04
	e	28 38
Nov. 9		
COL	eP	21 55 46

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Date and Station		Phase	(GCT) h m s
EUR	iP		21 59 43
Nov. 9			
BOZ	eP'		22 18 35
EUR	eP'		22 18 45
HH	eP'		22 18 31
	iP'		18 32
SLC	eP'		22 18 46
Nov. 10			
COL	eP		00 12 01
EUR	iP		00 15 58
Nov. 10			
BC	eP		01 02 24
EUR	eP		01 02 42
HH	eP		01 03 13
	e		03 33
Nov. 10			
BC	eP		01 37 59
COL	iP		01 36 54
EUR	eP		01 38 00
HH	eP		01 38 02
Nov. 10			
BC	eP		01 55 43D
	iP		55 44D
	iPcP		55 55
	i		56 46
	eS		02 05 19
	esS		05 37
BOZ	eP		01 56 22C
	iP		56 24
	ipP		56 36
	i		57 45
	ePP		59 37
	eS		02 06 35
	esS		07 20
	e		08 21
	eSS		12 07
	eL		19 11
	eP'P'		22 43
BUT	eP		01 56 20C
	iP		56 21
	ipP		56 44
	isP		57 02
	i		58 02
	iPP		59 31
	e		02 00 17
	iS		06 28
	i		07 31
	e		08 27
	eSS		11 22
	e(SSS)		15 20
	eL		17 19
COL	iP		01 56 18D
	i		56 55
	iS		02 06 27
	iScS		07 07
	iPS		07 26
	e		12 57
	i		16 36
	eL		18 25
COLU	eP		01 57 49
	ePP		02 01 57
	iSKS		08 18
	iS		09 20
	eSS		16 20
	eL		27 02
EUR	iP		01 55 49D
	ePKKP		02 15 12
	e		20 19
	iP'P'		23 06
HONO	eP		01 51 34
	e(S)		56 44
	eL		02 00 58
HH	eP		01 56 21D
	i		56 24
	i		56 35
	ipP		56 49
	iPP		59 34
	ePPP		02 01 19
	eS		06 31
	ePS		07 31
	ePKKP		14 46
	eP'P'		22 39
	eSKPP'		26 12
SLC	eP		01 56 08C
	iP		56 09
	i		56 26
	ipP		56 31
	isP		56 55
	ePP		59 16
	iS		02 06 08
	ePS		07 00
	e		07 22
	eSS		11 25
	eL		17 40
	eP'P'		22 56
RC	iP		01 56 48
	e		57 48
	e		58 52
	ePP		02 00 14
	ePPP		02 20
	iSKS		07 04
	ePS		08 07
	e(sPS)		09 09
	eL		27 10
SJ	e(P')		02 03 05
TUC	iP		01 55 49D
	ipP		56 10
	iPP		58 42
	iS		02 05 32
	i		06 14
	eSSS		13 44
TUC	eP'P'		02 23 11
	iSKPP'		26 30
UK	eP		01 55 25
	eS		02 04 35
	e		04 44
	eL		14 10
Nov. 10			
EUR	iP		02 39 38
	e		46 39
Nov. 10			
EUR	eP		03 41 45
Nov. 10			
COL	iP		04 05 52
EUR	iP		04 09 18
HH	eP		04 08 48
Nov. 10			
EUR	e(P)		04 23 13
Nov. 10			
EUR	e(P)		04 39 28
	i		39 35
Nov. 10			
BC	iP		05 23 15
COL	iP		05 23 51
EUR	iP		05 23 22
	e		30 46
SLC	e(P)		05 23 37
TUC	iP		05 23 18
Nov. 10			
BC	eP		05 39 16
BOZ	eP		05 39 58
BUT	e(P)		05 40 06
COL	iP		05 43 22
COLU	eP		05 37 39
EUR	eP		05 39 42
	i		40 00
HH	eP		05 40 26
SJ	iP		05 37 38
TUC	eP		05 38 36
	i		43 59
	e		44 54
Nov. 10			
BC	iP		05 44 08
BOZ	eP		05 44 19
BUT	eP		05 44 22
COL	eP		05 45 04
	i		45 12
	i		45 21
EUR	eP		05 44 15
	e		44 40
HH	iP		05 44 25
	e		46 25
SLC	e(P)		05 45 35
	eP		45 41
Nov. 10			
EUR	iP		05 54 20
Nov. 10			
EUR	eP		07 47 14
Nov. 10			
EUR	e(P)		08 56 24
Nov. 10			
BC	iP		09 03 42
	e		03 48
BOZ	eP		09 04 11
	ipP		04 48
BUT	iP		09 04 16
COLU	eP		09 02 03
EUR	iP		09 04 01
HH	iP		09 04 28
SLC	eP		09 03 53
	e		04 15
SJ	iP		08 59 52
TUC	iP		09 03 13
	e		03 32
Nov. 10			
EUR	eP		10 18 37
Nov. 10			
HH	eP		10 45 30
Nov. 10			
HH	e(P)		12 28 30
Nov. 10			
BUT	eP		12 41 05
Nov. 10			
EUR	eP		13 48 51
Nov. 10			
COL	iP		14 47 41
EUR	eP		14 48 34

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

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

Date and Station		Phase (GCT)
		h m s
TUC	iP	13 36 06
	ipP	36 49
Nov. 14		
EUR	e(P)	13 42 06
	i	45 47
HH	e(P)	13 45 33
Nov. 14		
EUR	iP	15 46 53
Nov. 14		
COL	eP	16 26 01
EUR	iP	16 29 57
Nov. 14		
COL	eP	17 55 12
EUR	eP	17 59 11
Nov. 14		
COL	eP	20 41 25
EUR	iP	20 45 23
Nov. 14		
SLC	eP	22 16 18
Nov. 14		
BOZ	eP	23 01 19
Nov. 14		
COL	eP	23 20 13
Nov. 14		
EUR	iP	23 52 27
Nov. 15		
EUR	eP	00 14 55
	i	15 05
Nov. 15		
BOZ	eP	02 53 09
EUR	e(P)	02 52 54
	i	53 04
HH	e(P)	02 53 43
Nov. 15		
COL	iP	03 28 52
	ipP	29 16
	esP	29 26
EUR	eP	03 29 51
	epP	30 13
Nov. 15		
COL	eP	07 03 29
EUR	e(P)	07 07 09
	i	07 26
Nov. 15		
SLC	eP	09 05 14

Date and Station		Phase (GCT)
		h m s
Nov. 15		
BC	iP	10 13 33
	iPP	14 30
BOZ	eP	10 12 57
	eS	17 51
	i	18 13
	eL	20 05
BUT	eP	10 12 46
	iPP	13 43
	iPcP	15 33
	iS	17 21
	i	17 51
	iL	19 13
COL	iP	10 09 15
	i	09 18
	e(S)	11 02
	iL	12 00
COLU	eP	10 16 14
	iP	16 17
	e(PcP)	16 58
	ePP	18 23
	eS	23 57
	eScS	26 09
	eSS	27 43
	eL	33 43
EUR	iP	10 13 05
	iPP	14 02
	iPcP	16 15
	iScP	19 43
	eL	20 30
HONO	e(S)	10 18 40
	eL	20 38
T_L = 10 sec. $A_{max.}$=7 mm.		
HH	eP	10 12 26
	i	12 41
	i(PcP)	14 37
	i	15 51
	eS	17 03
PHIL	eS	10 23 40
	iS	23 52
	eScS	25 56
	eSS	27 30
	i	28 06
	eL	29 13
RC	eP	10 13 39
	ePP	15 09
	ePcP	15 54
	eS	19 09
	e	19 53
	eL	22 41
SLC	eP	10 13 20
	eS	18 37
	eL	20 41
SJ	iP	10 18 30
	i	18 41
	e(PP)	22 08

Date and Station		Phase (GCT)
		h m s
SJ	eS	10 28 20
	eSS	33 17
	eL	37 12
SIT	eP	10 09 32
	iP	09 34
	i	09 45
	i	10 06
	eS	11 29
	eL	11 51
	iL	12 10
TUC	eP	10 14 16
	i	14 25
	e(PP)	15 58
	i(S)	20 32
	eL	23 34
UK	e(P)	10 12 51
	eS	17 22
	eL	18 22
WASH	eP	10 16 08
	eL	34 46
Nov. 15		
BUT	eP	11 32 34
Nov. 15		
EUR	eP	11 50 09
	iP	50 11
	i(S)	50 32
	iL	51 09
Nov. 15		
EUR	eP	13 31 40
Nov. 15		
COL	iP	14 38 55
Nov. 15		
COL	eP	15 34 18
	i	34 44
HH	e(P)	15 36 17
Nov. 15		
EUR	iP	18 12 22
Nov. 15		
COL	iP	21 21 28
	e	23 53
Nov. 15		
BOZ	eP	22 23 54
EUR	eP	22 24 18
	i	24 24
	i	26 42
	iPP	27 45
HH	eP	22 23 39
	i	25 12
Nov. 16		
COL	iP	00 14 10
EUR	iP	00 18 07

Date and Station		Phase (GCT)
		h m s
Nov. 16		
TUC	eP	01 03 26
	e	04 17
Nov. 16		
EUR	eP	01 53 35
Nov. 16		
EUR	iP	03 41 27
Nov. 16		
BH	iP	04 37 39
	iS	38 06
EUR	eP	04 44 49
Nov. 16		
EUR	eP	05 12 09
Nov. 16		
COL	iP	06 22 33
	ipP	23 30
	i	23 40
EUR	eP	06 23 43
	e(PP)	27 45
SJ	iP	06 29 37
Nov. 16		
COL	e(P)	06 43 18
Nov. 16		
COL	eP	06 53 07
EUR	iP	06 47 14
Nov. 16		
COL	eP	08 12 01
EUR	iP	08 10 33
HH	e(P)	08 10 09
TUC	eP	08 12 15
Nov. 16		
EUR	eP	08 30 40
Nov. 16		
BC	eP'	09 24 43
	e	25 21
	ePP	25 58
	e	28 54
BOZ	eP'	09 25 34
BUT	eP'	09 24 55
	i	25 35
	ePKS	28 22
COL	iP'	09 25 46
	i	26 21
	i	26 24
EUR	eP'	09 24 50
	e	25 28
	ePP	26 13

Date and Station		Phase (GCT) h m s
HH	iP'	09 24 58
SLC	eP'	09 24 48
	e	25 27
SJ	eP	09 18 12
	iP	18 14
	e	18 51
TUC	eP'	09 24 34
Nov. 16		
EUR	iP	09 34 52
	e	35 18
Nov. 16		
EUR	eP	09 48 35
Nov. 16		
COL	eP	12 30 04
EUR	eP	12 33 55
Nov. 16		
EUR	eP	14 24 59
HH	i(P)	14 25 28
Nov. 16		
COL	iP	14 38 55
EUR	iP	14 42 23
Nov. 16		
EUR	iP	15 29 19
	i(S)	29 46
	iL	30 31
Nov. 16		
EUR	iP	16 40 57
Nov. 16		
COL	iP	18 02 42
EUR	e(P)	18 06 17
Nov. 16		
EUR	iP	19 38 56
Nov. 17		
BC	eP	00 03 53
COL	eP	00 00 21
	iP	00 26
EUR	eP	00 03 27
HH	eP	00 02 18
TUC	eP	00 04 22
Nov. 17		
SJ	iP	01 20 32
Nov. 17		
EUR	e(P)	02 37 00
	iP	37 07

Date and Station		Phase (GCT) h m s
Nov. 17		
COL	iP	03 56 24
	e	56 52
Nov. 17		
SLC	eP	04 54 53
Nov. 17		
COL	eP	05 37 44
EUR	eP	05 41 41
Nov. 17		
BC	iP	07 05 10C
	ipP	05 21
	eS	14 48
BOZ	iP	07 05 42D
	ipP	05 54
	i	06 37
	ePP	09 03
	eS	15 54
	e(sPS)	17 35
	eSS	21 15
	eSSS	24 41
	eL	27 17
BUT	iP	07 05 47C
	ipP	05 57
	isP	06 12
	i	08 03
	iS	15 58
	eL	27 27
COL	eP	07 07 51C
	epP	08 02
	eP'	11 52
	ePP	12 10
	ePKKP	22 51
	e	24 30
	eL	42 08
COLU	iP	07 03 40C
	ipP	03 51
	iS	11 56
	iScS	13 34
	eL	20 02
EUR	iP	07 05 28C
	ipP	05 42
	eP'P'	32 34
	iSKPP'	36 00
HH	iP	07 05 59C
	ePP	09 10
	eS	16 19
PHIL	iS	07 13 01
	eScS	14 07
	eL	20 28
SLC	iP	07 05 22D
	ipP	05 33
	isP	05 46
	eS	15 11
	e(ScS)	15 55
	eSS	20 11
	eL	29 13

Date and Station		Phase (GCT) h m s
SJ	iP	07 01 39C
	ipP	02 00
	isP	02 47
	ePP	03 30
	iPcP	03 49
	ePcS	07 17
	eS	08 05
	iS	08 11
	eSS	08 37
	iScS	11 36
	eL	14 30
TUC	iP	07 04 40C
	ipP	04 52
	iPP	07 30
	eS	13 50
	esS	14 15
	e(sSS)	19 13
	eL	22 13
	eP'P'	32 50
WASH	iP	07 04 12C
	e(PcP)	04 50
Nov. 17		
SLC	eP	07 17 13
Nov. 17		
EUR	iP	07 52 48
	i	53 04
Nov. 17		
COL	iP	08 49 10
EUR	eP	08 54 38
Nov. 17		
COL	eP	09 24 49
Nov. 17		
COL	iP	09 26 32
Nov. 17		
SLC	eP	12 13 03
Nov. 17		
SLC	e(P)	12 56 04
Nov. 17		
EUR	eP	14 25 38
Nov. 17		
EUR	eP	15 41 53
Nov. 17		
COL	eP	17 51 42
	iP	51 55
Nov. 17		
EUR	eP	20 23 47
Nov. 17		
SLC	eP	22 42 01
Nov. 17		
SLC	e(P)	23 15 09

Date and Station		Phase (GCT) h m s
Nov. 17		
EUR	eP	23 41 56
HH	eP	23 41 00
Nov. 18		
EUR	iP	01 55 53
Nov. 18		
COL	eP	03 40 06
EUR	iP	03 37 17
	e	37 34
HH	eP	03 37 54
Nov. 18		
EUR	eP	05 01 34
Nov. 18		
COL	eP	05 55 43
Nov. 18		
BC	eP	07 16 57
BOZ	iP	07 17 39
BUT	iP	07 17 34
	e	18 09
COL	iP	07 17 35
EUR	iP	07 17 04
	e	17 16
HH	iP	07 17 35
	e	17 58
SLC	eP	07 17 23
TUC	iP	07 17 04
	i	17 25
Nov. 18		
BC	eP	07 33 57
BOZ	eP	07 35 06
BUT	eP	07 35 12
COL	iP	07 37 41
EUR	eP	07 33 18
	e	33 53
HH	e(P)	07 35 12
	e	35 28
SJ	eP	07 29 52
TUC	eP	07 32 23
	e	32 56
Nov. 18		
EUR	eP	07 57 48
SLC	eP	07 57 57

Date and Station		Phase (GCT)
		h m s
Nov. 18		
EUR	eP	08 54 10
Nov. 18		
EUR	eP	09 19 11
Nov. 18		
EUR	eP	09 41 17
Nov. 18		
TUC	eP	11 44 31
Nov. 18		
COL	eP	12 58 59
EUR	iP	13 02 54
	e	04 29
SLC	e(P)	13 03 04
Nov. 18		
SLC	e(P)	14 10 02
Nov. 18		
EUR	eP	15 01 38
Nov. 18		
COL	eP	17 15 05
Nov. 18		
BC	eP	17 28 03
BOZ	eP	17 28 55
BUT	eP	17 29 01
EUR	iP	17 28 25
HH	eP	17 29 10
SLC	eP	17 28 29
TUC	eP	17 27 38
Nov. 18		
EUR	eP	19 33 26
	e	34 00
Nov. 18		
COL	iP	20 32 30
EUR	iP	20 36 26
	e	40 16
SLC	eP	20 36 37
Nov. 18		
COL	e(P)	21 03 03
Nov. 18		
COL	iP	21 10 13
Nov. 18		
COL	e(P)	21 35 50
Nov. 18		
BC	eP	22 08 20

Date and Station		Phase (GCT)
		h m s
BC	e	22 08 31
COL	iP	22 09 02
EUR	iP	22 08 26
	i	08 38
HH	eP	22 08 58
SLC	eP	22 08 44
Nov. 18		
COL	iP	22 25 08
	iS	25 58
	iL	26 07
Nov. 18		
COL	iP	22 49 04
	i	49 12
	i	50 21
Nov. 18		
BC	e(P)	23 17 53
Nov. 18		
EUR	eP	23 29 38
Nov. 19		
EUR	eP	00 53 24
	e	53 32
	i	57 13
HH	eP	00 52 45
	e	56 26
Nov. 19		
EUR	eP	01 26 11
Nov. 19		
EUR	eP	02 06 24
Nov. 19		
TUC	iP	03 51 20
Nov. 19		
BC	eP	05 51 03
	e	51 09
	i	51 16
BOZ	eP	05 51 48
COL	iP	05 51 30
EUR	eP	05 51 14
HH	eP	05 51 42
SLC	eP	05 51 34
TUC	eP	05 51 18
	eL	06 15 28
Nov. 19		
COL	e(P)	05 57 22
Nov. 19		
HH	e(P)	06 23 25

Date and Station		Phase (GCT)
		h m s
Nov. 19		
EUR	iP	06 34 50
	eL	36 13
SLC	e(P)	06 36 04
	e	37 13
Nov. 19		
EUR	eP	07 17 33
HH	e(P)	07 18 14
Nov. 19		
BC	iP	08 38 34
	i	38 52
BOZ	eP	08 39 03
BUT	eP	08 38 59
COL	iP	08 38 29
	ePP	42 04
EUR	iP	08 38 37
	iPP	42 12
HH	eP	08 38 57
	ePP	42 50
SLC	eP	08 38 53
SJ	iP'	08 44 37
TUC	iP	08 38 43
	i	38 59
	ePP	42 23
Nov. 19		
EUR	eP	09 18 26
Nov. 19		
EUR	eP	11 01 03
Nov. 19		
EUR	eP	13 05 23
Nov. 19		
EUR	eP	21 15 44
Nov. 19		
SLC	e(P)	22 30 15
Nov. 19		
COL	iP	22 48 20
EUR	eP	22 52 18
Nov. 19		
BC	iP	23 17 39
	i	17 52
COL	iP	23 15 32
	ipP	15 50
EUR	iP	23 16 09
HH	eP	23 16 22

Date and Station		Phase (GCT)
		h m s
Nov. 20		
EUR	e(P)	00 03 49
Nov. 20		
EUR	e(P)	00 59 37
Nov. 20		
COL	eP'	02 28 13
EUR	eP'	02 28 03
HH	iP'	02 28 16
Nov. 20		
EUR	eP	02 53 02
Nov. 20		
COL	eP	04 54 09
Nov. 20		
COL	eP	05 58 22
EUR	iP	06 02 20
Nov. 20		
COL	iP	10 14 04
EUR	eP	10 17 42
	e	17 57
Nov. 20		
EUR	iP	10 59 05
	eL	11 00 38
SLC	e(P)	10 59 53
Nov. 20		
COL	eP	15 17 28
EUR	eP	15 21 25
Nov. 20		
EUR	e(P)	16 44 30
Nov. 20		
COL	iP	17 32 12
Nov. 20		
HH	e(P)	18 04 09
Nov. 20		
HH	e(P)	18 26 43
Nov. 20		
HH	e(P)	19 09 54
Nov. 20		
HH	e(P)	20 51 24
Nov. 20		
COL	eP	22 55 55
Nov. 20		
COL	iP	23 19 06
EUR	eP	23 23 02

Date and Station		Phase (GCT) h m s
Nov. 21		
EUR	eP	02 59 31
Nov. 21		
EUR	iP	07 52 31
	eL	53 36
Nov. 21		
COL	eP	09 05 42
EUR	eP	09 09 40
Nov. 21		
COL	e(P)	11 01 33
EUR	e(P)	11 01 03
TUC	e(P)	11 01 01
Nov. 21		
BOZ	e(P)	13 25 42
COL	eP	13 29 11
EUR	e(P)	13 25 19
HH	eP	13 26 10
Nov. 21		
HH	eP	15 55 04
Nov. 21		
COL	eP	16 10 52
EUR	eP	16 14 50
Nov. 21		
EUR	eP	16 27 19
HH	e(P)	16 27 18
Nov. 21		
COL	iP	16 52 55
Nov. 21		
BC	eP	17 47 34
COL	iP	17 43 27
EUR	iP	17 47 13
HH	eP	17 46 37
	i	47 46
Nov. 21		
COL	eP	19 42 49
Nov. 21		
BUT	eP	20 27 31
	eS	29 21
	eL	29 33
BC	eP	20 26 39
	i	26 41
	iS	26 55
	eL	27 50
	e	39 53
BOZ	eP	20 27 36
	iL	29 48
CHI	eP	20 30 40
	eS	34 59
	eL	37 47
COL	iP	20 31 51
	eL	38 54
	iL	42 55
EUR	iP	20 26 01
HH	iP	20 27 54
	iL	30 08
SLC	eP	20 26 52
	i	27 10
	i(S)	28 04
	iL	28 10
TUC	eP	20 27 53
	iP	27 54
	i	28 24
	iS	29 23
	iL	29 49
UK	e(P)	20 26 43
	eP	26 46
	eS	27 24
	eL	27 32
	iL	27 38
Nov. 21		
BOZ	eP	20 43 03
BUT	eP	20 43 00
COLU	eP	20 41 20
	e	41 50
HH	e(P)	20 43 08
	i	45 25
	iL	45 35
WASH	eP	20 42 (59)
Nov. 21		
EUR	iP	20 52 03
Nov. 21		
BC	iP	20 56 19
	i	57 07
EUR	iP	20 56 40
HH	eP	20 58 44
	eL	21 02 46
TUC	eP	20 57 48
Nov. 21		
BC	eP	21 16 50
	i	17 49
	e	20 51
EUR	iP	21 16 01
Nov. 21		
TUC	iP	21 17 34
Nov. 21		
COL	iP	21 20 04
	i	20 40
EUR	eP	21 21 08
HH	e(P)	21 19 58
	e	20 35
	i	21 15
Nov. 21		
COL	iP	23 15 46
Nov. 22		
EUR	iP	00 21 49
Nov. 22		
EUR	iP	01 30 58
	eL	32 13
Nov. 22		
HH	e(P)	02 13 39
Nov. 22		
BC	iP	03 34 18C
	i	34 25
	e(PcP)	35 04
BOZ	iP	03 35 23D
	e	35 54
	eS	44 41
	eSS	49 23
	eL	53 07
BUT	iP	03 35 22D
	iPcP	35 57
	e	37 03
	e	37 31
	iS	44 41
	eSS	49 43
	eL	53 19
CHI	eP	03 35 42
	eS	45 13
	eSS	50 09
	eL	04 03 06
COL	iP	03 37 10C
	i	37 21
	iPP	40 47
	eS	48 10
	ePS	49 13
	eSS	54 00
	eSSS	56 42
	eL	58 20
COLU	iP	03 35 20
	e	36 32
	iS	44 32
	e	47 24
	eL	04 03 20
EUR	iP	03 34 40D
	e	50 13
	e(P'P')	04 02 30
HONO	eP	03 33 58
	eS	42 05
	e(ScS)	44 20
	eL	46 44
T_L = 8 sec. $A_{max.}$ = 3.5mm.		
HH	iP	03 35 35C
	ePP	38 04
	e	39 10
	eS	45 07
RC	eP	03 35 20
	ePcP	35 51
	e(PP)	39 57
	eS	44 33
	eL	53 46
SLC	eP	03 34 51C
	eL	53 39
SJ	eP	03 35 15D
SIT	eP	03 36 27
	e(PPP)	41 09
	eS	46 42
	ePS	47 31
	eSS	52 50
	eL	58 19
TUC	eP	03 33 55D
	iP	33 56C
	ePP	36 27
	e	38 15
	eS	41 50
	e	44 35
	eSS	46 13
	eL	48 34
UK	eS	03 43 15
	eL	50 33
Nov. 22		
BC	eP	07 35 05
	i	35 16
COL	iP	07 32 11
	i	32 23
	i	32 26
	i	32 50
	i	33 11
EUR	iP	07 35 43
HH	eP	07 35 12
Nov. 22		
HH	iP	13 10 21
Nov. 22		
EUR	e(P)	14 23 45
	i	24 02
TUC	eP	14 26 19
Nov. 22		
COL	eP	15 46 36

Date and Station		Phase (GCT)
		h m s
EUR	eP	15 50 35
Nov. 22		
EUR	e(P)	16 52 40
	e	53 17
Nov. 22		
BC	eP	17 18 56
COL	iP	17 17 52
EUR	iP	17 18 52
HH	eP	17 19 02
Nov. 22		
COL	iP	17 38 13
	i	38 30
	i	38 42
	i	39 32
HH	e(P)	17 41 51
Nov. 22		
EUR	iP	21 40 12
TUC	i(P)	21 42 47
Nov. 22		
EUR	e(P)	21 49 56
	e	51 19
HH	eP	21 50 55
Nov. 22		
HH	e(P)	22 07 24
Nov. 23		
BC	eP	00 13 32
	i	13 48
EUR	iP	00 13 52
HH	eP	00 14 26
SJ	iP	00 09 22
TUC	eP	00 12 52
Nov. 23		
COL	e(P)	00 41 01
EUR	eP	00 44 57
Nov. 23		
EUR	iP	02 44 38
HH	eP	02 45 41
Nov. 23		
COL	iP	02 45 52
Nov. 23		
BC	i(P)	03 21 03
BUT	eP	03 21 41
COL	iP	03 25 01
	ipP	25 35

Date and Station		Phase (GCT)
		h m s
COLU	eP	03 19 25
EUR	iP	03 21 17
HH	iP	03 22 03
	iPcP	23 59
	i(sPP)	24 06
SLC	eP	03 21 06
TUC	eP	03 20 07
	eL	30 56
Nov. 23		
EUR	e(P)	04 16 29
	i	16 52
Nov. 23		
BC	e(P)	04 25 35
	e	26 47
BUT	eP	04 28 07
EUR	iP	04 24 39
HH	eP	04 28 58
SLC	eP	04 25 42
	eL	26 56
Nov. 23		
BC	iP	06 39 48C
	i	39 57
	iS	48 15
	esS	48 42
	eScS	49 11
BOZ	iP	06 39 18D
	ipP	39 34
	iPcP	40 16
	e(pPP)	41 59
	iS	47 17
	isS	47 43
	i	48 00
	i	49 29
	iSS	51 14
	eL	54 26
	e	07 06 18
	eP'P'	08 48
	iP'P'	09 18
BUT	iP	06 39 09C
	ipP	39 24
	isP	39 35
	iPcP	40 11
	iPP	41 29
	eS	46 30
	isS	47 26
	iScS	48 57
	eSS	50 22
	eL	53 11
CHI	eP	06 40 55
	eS	50 09
	isS	50 38
	esPS	51 15
	eSS	54 32
	esSS	55 05

Date and Station		Phase (GCT)
		h m s
CHI	eL	06 58 19
COL	iP	06 35 48C
	epP	36 10
	iS	40 50
	iL	42 31
	iP'P'	07 07 25
COLU	iP	06 41 44C
	iS	51 52
	i	07 09 06
EUR	iP	06 39 28C
	eS	47 37
	e	51 31
	iP'P'	07 08 43
HONO	e(P)	06 38 08
	ePcP	39 18
	eS	44 30
	i	44 37
	eL	48 22
T_S = 8 sec. A = 6mm.		
T_L = 18 sec. $A_{max.}$ = 5mm.		
HH	iP	06 38 54C
	ipP	39 13
	iPcP	40 04
	ipPP	41 14
	e(PPP)	42 22
	iS	46 32
	esS	46 56
	eScS	48 07
	e(P'P')	07 08 26
	iP'P'	08 55
PHIL	eP	06 41(42)
	eS	51(29)
	eSS	56(21)
	eL	07 00(14)
SLC	iP	06 39 38D
	i	39 44
	i(pP)	39 58
	i	41 13
	iS	47 54
	isS	48 22
	i(ScS)	49 28
	eSS	51 57
	eL	54 59
	eP'P'	07 08 53
SJ	eP	06 43 23
	ePP	47 32
SIT	iP	06 36 52
	ePP	38 43
	ePPP	39 18
	iS	43 01
	isS	43 24
	iScS	46 58
	eL	47 22
TUC	iP	06 40 20C
	ipP	40 37
	ePP	42 28
	ipPP	43 17

Date and Station		Phase (GCT)
		h m s
TUC	eS	06 49 13
	iS	49 18
	e	50 22
	eSS	53 22
	eL	56 58
UK	eP	06 39 05
	epP	39 38
	e	40 38
	eS	46 43
	eL	47 07
WASH	e(P)	06(42 05)
Nov. 23		
BC	eP	07 08 43
BUT	eP	07 08 57
HH	e(P)	07 16 18
SJ	i(P)	07 05 28
TUC	eP	07 08 40
Nov. 23		
COL	e(P)	08 45 30
HH	eP	08 47 37
	iP	47 38
Nov. 23		
COL	eP	09 02 47
Nov. 23		
COL	eP	09 37 05
	i	37 17
EUR	eP	09 40 45
Nov. 23		
BUT	eP	11 19 52
Nov. 23		
COL	eP	13 52 07
EUR	eP	13 56 04
Nov. 23		
EUR	eP	16 08 58
Nov. 23		
COL	iP	17 35 00
EUR	eP	17 34 41
	e	35 58
HH	eP	17 34 35
Nov. 23		
COL	eP	20 42 30
Nov. 24		
BC	eP	00 25 44
	i	25 49
	e	26 50
BUT	eP	00 26 53

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Date and Station		Phase (GCT) h m s
EUR	iP	00 24 53
	i	24 56
	i	26 45
HH	e(P)	00 27 20
	eL	29 25
TUC	eP	00 27 20
	e	29 22
	i	29 36
Nov. 24		
COL	eP	01 56 09
EUR	eP	02 01 08
Nov. 24		
EUR	eP	02 33 35
Nov. 24		
EUR	eP	04 44 03
TUC	eP	04 44 03
Nov. 24		
COL	iP	05 02 53
EUR	eP	05 05 15
	e	08 27
HH	iP	05 04 56
TUC	e(P)	05 09 44
Nov. 24		
EUR	eP	08 04 28
Nov. 24		
EUR	eP	08 49 44
TUC	eP	08 49 42
Nov. 24		
COL	iP	09 39 03
Nov. 24		
BC	eP	11 20 54
	ipP	21 09
BOZ	iP	11 20 25
	ipP	20 40
BUT	eP	11 20 17
COL	iP	11 16 54
	ipP	17 08
EUR	iP	11 20 35
	eScP	35 06
	e	48 44
	eSKIPP	54 05
HH	iP	11 20 01
	ipP	20 15
SLC	iP	11 20 45
	ipP	21 00
	iaP	21 12

Date and Station		Phase (GCT) h m s
TUC	iP	11 21 27
	ipP	21 42
	eScP	35 10
Nov. 24		
COL	iP	12 11 46
EUR	iP	12 15 26
	i	15 41
HH	e(P)	12 14 52
TUC	eP	12 16 18
Nov. 24		
TUC	e(P)	13 04 04
Nov. 24		
COL	eP	15 41 55
Nov. 24		
COL	iP	17 20 25
EUR	iP	17 24 24
	e	25 27
HH	e(P)	17 23 45
SLC	eP	17 24 33
Nov. 24		
TUC	e(P)	19 15 05
	e	16 08
Nov. 24		
EUR	eP	21 35 40
	i	36 14
Nov. 24		
SJ	iP	22 32 22
	i	33 28
Nov. 25		
SJ	e(P)	01 34 09
Nov. 25		
BUT	eP	08 44 23
COL	iP	08 41 21
EUR	iP	08 44 37
HH	iP	08 44 08
	ePcP	44 28
SLC	e	08 45 25
TUC	eP	08 45 22
Nov. 25		
COL	eP	09 14 16
EUR	eP	09 16 26
HH	e(P)	09 16 57
Nov. 25		
COL	eP	09 54 04

Date and Station		Phase (GCT) h m s
EUR	e(P)	09 57 24
Nov. 25		
EUR	eP	11 42 31
Nov. 25		
EUR	e(P)	12 13 59
Nov. 25		
COL	eP	13 52 01
Nov. 25		
EUR	eP	14 20 07
Nov. 25		
BOZ	eP	14 30 39
	ePcP	32 18
COL	iP	14 26 15
	iS	27 30
	iL	28 07
EUR	eP	14 30 53
	iP	30 55
	eL	37 31
HH	eP	14 30 06
	ePcP	33 33
Nov. 25		
BC	eP	16 31 10
	i	31 26
BUT	eP	16 32 33
	eL	34 21
EUR	iP	16 30 32
HH	e(P)	16 32 31
	e	33 07
	eL	34 56
SLC	eP	16 31 29
	e(S)	32 32
	eL	32 44
TUC	e(P)	16 32 59
	e	35 11
Nov. 25		
COL	iP	16 51 10
	eS	52 25
	eL	52 50
	iL	53 04
EUR	eP	16 55 49
HH	iP	16 55 01
	i	58 27
Nov. 25		
EUR	eP	17 17 15
	e	17 43
Nov. 25		
COL	eP	17 44 10

Date and Station		Phase (GCT) h m s
EUR	iP	17 47 45
Nov. 25		
BOZ	e(P)	18 29 19
BUT	e(P)	18 29 18
EUR	iP	18 27 20
HH	e(P)	18 29 48
	iL	31 53
SLC	eP	18 28 18
	e(S)	29 23
	eL	29 35
TUC	e(P)	18 29 49
	e	31 54
Nov. 25		
EUR	eP	20 22 53
	e	23 28
Nov. 25		
COL	eP	23 13 27
Nov. 26		
COL	iP	05 36 20
EUR	eP	05 40 15
Nov. 26		
COL	eP	06 39 20
	e	39 28
EUR	iP	06 40 08
	e	41 23
Nov. 26		
COL	iP	07 15 45
Nov. 26		
BC	eP	13 37 38
	e	37 53
COL	iP	13 37 14
EUR	eP	13 37 38
HH	iP	13 37 56
SLC	e(P)	13 38 13
TUC	e(P)	13 37 51
Nov. 26		
HH	e(P)	14 42 19
Nov. 26		
BOZ	eP	15 05 52
Nov. 26		
COL	e(P)	16 47 28
	i	47 48
EUR	eP	16 48 34

Date and Station		Phase (GCT)
		h m s
Nov. 26		
BC	eP	17 37 09
	iP	37 10
	eL	38 12
BOZ	eP	17 39 34
	i	39 44
	eS	42 31
	eL	43 21
BUT	eP	17 39 33
	e(S)	42 40
	eL	43 11
COL	iP	17 43 26
EUR	iP	17 37 57
	eL	40 06
HH	iP	17 39 58
	e	44 59
RC	eP	17 39 44
	eL	43 07
SLC	eP	17 38 26
	e(S)	40 37
	eL	41 03
TUC	iP	17 37 07
	i	37 53
	eL	40 40
Nov. 26		
SLC	eP	19 20 48
Nov. 26		
BOZ	eP	20 13 25
Nov. 26		
BOZ	eP	20 54 52
EUR	eP	20 55 38
Nov. 26		
BC	eP	21 11 29
	i	11 30
	e	11 42
BOZ	eP	21 12 35
EUR	iP	21 11 54
HH	e(P)	21 12 50
SLC	eP	21 12 02
TUC	eP	21 11 03
Nov. 26		
HH	i(P)	23 54 29
Nov. 27		
EUR	e(P)	00 53 31
Nov. 27		
BC	e(P)	01 15 22

Date and Station		Phase (GCT)
		h m s
BOZ	eP	01 14 30
COL	e(P)	01 16 33
EUR	iP	01 13 51
HH	e(P)	01 14 46
SLC	eP	01 13 59
Nov. 27		
HH	e(P)	02 26 12
Nov. 27		
BC	eP	07 17 34
	i	17 41
	e(pP)	18 17
BOZ	eP	07 18 14
BUT	eP	07 18 18
COL	eP	07 18 11
EUR	eP	07 17 40
HH	eP	07 18 16
SLC	eP	07 17 58
	i	18 06
TUC	eP	07 17 37
	i	17 44
Nov. 27		
COL	eP	07 41 05
Nov. 27		
COL	e(P)	10 15 43
EUR	eP	10 19 34
Nov. 27		
EUR	eP	13 01 12
Nov. 27		
BC	eP	13 13 44
COL	iP	13 08 55
EUR	eP	13 13 15
	e	13 31
HH	eP	13 12 31
TUC	eP	13 14 27
Nov. 27		
BUT	eP	15 16 40
EUR	e(P)	15 16 09
Nov. 27		
BC	eP	17 29 13
BUT	iP	17 29 03
	epP	31 12

Date and Station		Phase (GCT)
		h m s
COL	iP	17 27 00
EUR	iP	17 29 02
	epP	31 10
HH	iP	17 28 54
	epP	31 03
SLC	eP	17 29 14
Nov. 27		
BC	eP	19 44 22
	e	44 34
	ePP	48 20
BOZ	eP	19 44 04
BUT	iP	19 44 00
COL	iP	19 41 41
	i	41 53
EUR	iP	19 44 10
	ePP	47 57
HH	iP	19 43 50
	i	44 03
	ePP	47 33
TUC	ePP	19 48 58
Nov. 27		
EUR	e(P)	20 01 37
Nov. 27		
HH	e(P)	20 13 23
Nov. 27		
BC	eP'	21 46 44
BOZ	eP'	21 46 43
BUT	eP'	21 46 41
COL	iP	21 41 19
COLU	iP'	21 47 31
EUR	eP'	21 46 40
	e(PP)	47 56
HH	iP'	21 46 38
SJ	iP'	21 48 57
TUC	eP'	21 46 52
Nov. 27		
EUR	iP	22 08 44
HH	e(P)	22 09 24
Nov. 27		
EUR	eP	22 27 13
Nov. 28		
EUR	e(P)	00 54 47

Date and Station		Phase (GCT)
		h m s
Nov. 28		
COL	eP	01 20 41
EUR	eP	01 20 09
Nov. 28		
BC	eP	01 40 24
	e	40 35
BOZ	eP	01 40 06
COL	iP	01 36 12
EUR	iP	01 40 02
	i	40 14
HH	e(P)	01 39 30
Nov. 28		
BC	e(P)	04 32 52
	e	33 06
COL	eP	04 29 04
EUR	eP	04 32 29
HH	eP	04 31 57
	e(PcP)	34 27
TUC	eP	04 33 31
Nov. 28		
COL	iP	05 15 38
	i	16 08
Nov. 28		
BC	e(P)	05 27 37
	e	29 26
BOZ	e	05 29 23
BUT	e(P)	05 27 47
	e	29 05
EUR	e(P)	05 26 20
HH	eP	05 27 36
	e	30 28
	i	31 13
SLC	eP	05 26 40
	e	28 06
Nov. 28		
BC	eP	10 22 37
COL	iP	10 18 16
EUR	iP	10 22 13
	e	23 16
HH	e(P)	10 21 35
SLC	eP	10 22 23
Nov. 28		
EUR	iP	12 19 43
	eL	21 21

Date and Station		Phase	(GCT)
			h m s
SLC		e	12 21 52
Nov. 28			
EUR		iP	16 46 23
Nov. 28			
HH		e(P)	17 27 34
Nov. 28			
BUT		eP	18 04 10
Nov. 28			
BC		eP	18 33 35
		i	33 40
BOZ		eP	18 34 15
COL		iP	18 34 03
		i	34 07
		eL	59 30
EUR		eP	18 33 41
HH		iP	18 34 11
SLC		eP	18 34 00
TUC		eP	18 33 44
Nov. 28			
COL		iP	21 22 55
		i	24 49
Nov. 28			
EUR		eP	21 42 02
Nov. 28			
EUR		e(P)	22 12 12
HH		eP	22 11 56
Nov. 29			
HH		e(P)	03 08 16
Nov. 29			
COL		eP	04 09 30
HH		eP	04 11 28
Nov. 29			
BH		iP	04 18 50
		iS	19 18
Nov. 29			
BC		eP	06 15 21
BOZ		e(P)	06 14 37
EUR		eP	06 15 17
HH		e(P)	06 14 41
Nov. 29			
COL		eP	07 05 22
EUR		iP	07 08 49
HH		e(P)	07 08 21

Date and Station		Phase	(GCT)
			h m s
Nov. 29			
EUR		eP	07 48 33
		iP	48 34
		i(S)	48 57
		eL	49 21
Nov. 29			
BUT		eP	08 51 13
		eL	56 50
Nov. 29			
BC		e(P)	09 44 59
COL		iP	09 43 33
		ipP	43 55
		e	44 07
EUR		eP	09 44 32
		ipP	44 50
HH		eP	09 44 45
		epP	45 02
Nov. 29			
EUR		eP	10 54 47
HH		eP	10 54 18
Nov. 29			
BC		e(P)	11 23 16
COL		iP	11 18 34
EUR		eP	11 22 49
HH		eP	11 21 57
Nov. 29			
EUR		eP	16 20 48
Nov. 29			
COL		iP	16 26 08
EUR		eP	16 29 28
		i	29 39
HH		eP	16 28 56
Nov. 29			
BC		eP	16 35 52
COL		iP	16 36 27
		ipP	37 12
EUR		eP	16 35 57
		ipP	36 43
HH		eP	16 37 16
SLC		eP	16 36 18
Nov. 29			
BC		eP	19 29 51
		e	31 08
		e	32 32
EUR		iP	19 29 05
		i	29 30

Date and Station		Phase	(GCT)
			h m s
Nov. 29			
COL		eP	19 28 11
EUR		iP	19 32 08
HH		eP	19 31 29
SLC		eP	19 32 16
Nov. 29			
EUR		e(P)	20 15 11
Nov. 29			
BUT		eP	21 12 11
Nov. 29			
HH		e(P)	21 46 45
Nov. 29			
EUR		e(P)	22 03 54
HH		i(P)	21 59 58
Nov. 30			
BC		eP	00 22 42
		e	23 59
COL		eP	00 22 55
EUR		iP	00 22 47
HH		e(P)	00 23 11
SLC		eP	00 23 03
TUC		eP	00 22 49
Nov. 30			
EUR		eP	01 19 43
		i	19 57
Nov. 30			
EUR		eP	05 43 50
Nov. 30			
BC		eP	06 38 45
		e	39 21
COL		eP	06 39 04
EUR		iP	06 38 49
HH		e(P)	06 39 20
SLC		eP	06 39 06
TUC		e(P)	06 38 53
Nov. 30			
HH		e(P)	07 15 13
Nov. 30			
BOZ		e(P)	08 51 21
		eP	51 23
		eL	57 33
COL		eP	08 48 51
		i	49 21

Date and Station		Phase	(GCT)
			h m s
COL		iL	08 51 10
EUR		eP	08 52 05
HH		eP	08 50 39
		i	50 45
		iL	55 16
SLC		eP	08 52 05
Nov. 30			
COL		eP	10 51 30
Nov. 30			
COL		eP	15 04 28
		e	05 01
Nov. 30			
BC		eP	17 27 30
COL		eP	17 27 04
		e	27 14
EUR		eP	17 27 30
		iPP	31 05
HH		eP	17 27 47
SLC		eP	17 28 05
Nov. 30			
EUR		e(P)	22 02 07

Local and Minor Earthquakes

day	hour
BUT	
Nov.	
1	00.2
	00.5
2	05.5
	05.6
	08.0
	19.5
3	17.0
	23.0
4	23.5
5	20.2
	22.5
7	21.2
	22.2
	23.1
8	23.0
	23.8
9	20.2
	21.1
	23.5
10	00.9
	21.3
	23.8
11	17.6
	18.9
	22.2
12	20.6
	23.4
14	23.4
15	18.0
	21.3
17	17.0
	23.2
18	17.4
	23.6
19	17.3
	20.0
	22.1
21	17.9
	20.7
	22.9
22	17.8
	20.9
	22.6
23	22.6
25	16.7
	18.4
	23.7
26	16.8
	20.6
	22.7
28	17.9
	20.1
29	17.4
	22.9
COL	
Nov.	
1	22.2
2	01.4
	01.7
	08.1
	11.3
	16.3
3	15.0
	16.0

Local and Minor Earthquakes

day	hour
COL	
Nov.	
5	09.7
	20.0
6	00.6
9	07.2
12	22.5
13	00.7
14	07.1
15	21.8
17	00.3
18	12.8
25	21.1
26	23.0
27	01.4
EUR	
Nov.	
1	00.3
2	02.2
	11.7
3	04.3
	17.4
	22.2
4	18.1
	20.3
5	07.0
	07.1
	16.5
6	02.4
	10.1
	10.6
	11.6
7	13.3
8	23.1
9	21.6
10	11.3
	21.3
11	14.1
12	05.4
	05.6
	09.4
	18.6
	18.9
	22.1
13	02.6
	12.2
	19.3
	22.7
14	00.1
	00.7
	03.5
	20.0
15	17.8
17	04.4
	12.2
18	18.2
19	18.5
20	12.0
21	04.4
	16.1
	18.2
	21.9
	21.9
	23.0
22	09.9
	11.0

Local and Minor Earthquakes

day	hour
EUR	
Nov.	
22	17.4
	20.9
23	07.5
	07.8
24	00.5
	00.8
	02.9
	06.5
25	03.8
26	02.8
	16.1
	21.6
	22.3
27	00.2
	04.9
	06.9
	07.1
	09.5
	13.2
	13.8
	20.1
	22.6
28	04.5
	15.1
	17.9
29	07.7
	14.2
	19.5
30	11.3
	12.1
	23.2
	23.9
HONO	
Nov.	
5	01.5
24	01.6
SLC	
Nov.	
24	20.1
SJ	
Nov.	
9	14.6
	15.8
16	00.4
18	17.4
	19.2
20	03.4
23	15.6
TUC	
Nov.	
1	05.5
2	05.7
3	01.1
	09.8
5	03.7
	03.9
	04.6
	18.4
6	00.5
9	08.4
	22.7

Local and Minor Earthquakes

day	hour
TUC	
Nov.	
10	09.2
	19.7
11	03.8
	04.8
16	01.9
17	04.7
	06.0
19	02.1
	06.6
	09.2
	13.4
	14.8
20	02.2
	11.0
	16.1
21	09.7
22	19.5
24	14.5
26	01.3
	10.7
28	00.5
	05.4
	05.8