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SEISMOLOGICAL BULLETIN

October, 1955

MSI - 178

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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
Oct.	h m s	° '	° '	
1	00 12 29*	53-1/2 N.	170 E.	Komandorskie Islands region.
1	06 29 54*	30 N.	101 E.	Sikang Province, China.
1	10 11 07**			Near coast of Guerrero, Mexico.
1	10 22 33*	41 N.	141 E.	Near north coast of Honshu, Japan.
1	12 24 49*	25 S.	177 W.	Tonga Islands region.
1	12 40 48**			Off south coast of Unimak Island.
1	18 49 10*	19 S.	169 E.	New Hebrides Islands.
2	03 13 40**			Andreanof Islands, Aleutian Islands.
2	16 02 54*	5-1/2 N.	83 W.	Off coast of Panama.
2	19 35 43**			Tonga Islands region.
3	10 02 16**			Fiji Islands region. h about 600 km.
3	11 24 03**			Near south coast of Vancouver Island, British Columbia.
3	17 40 00*	56 N.	162 W.	Alaska Peninsula.
4	07 26 57**			Tonga Islands region.
4	20 48 29**			Fiji Islands region.
5	00 46 42*	23-1/2 S.	178 W.	Tonga Islands region. h about 200 km.
5	08 57 55*	53-1/2 N.	161 E.	Near east coast of Kamchatka.
6	10 55 38**			North Atlantic Ocean.
6	11 03 16*	36 S.	70 W.	Mendoza Province, Argentina. Felt at Constitucion, Santiago, and Talca, Chile. h about 150 km. Mag. 6-1/2.
6	17 48 39*	19 S.	167 E.	New Hebrides Islands.
7	04 00 37*	30-1/2 N.	41 W.	North Atlantic Ocean.
7	07 20 36*	19 S.	173-1/2 W.	Tonga Islands.
7	14 50 42**			Central Peru. h about 100 km.
8	21 05 32**			Fiji Islands.
9	12 50 30*	2 S.	12-1/2 W.	Mid-Atlantic Ocean.
9	17 40 09*	5 S.	153 E.	New Britain. Felt at Kokopo and Rabaul.
9	23 13 32*	50-1/2 N.	176 E.	Near Islands, Aleutian Islands.
10	01 17 26*	41-1/2 N.	143 E.	Near south coast of Hokkaido, Japan.
10	08 57 44*	5 S.	153 E.	New Britain. Felt at Kokopo and Rabaul. Mag. 7-1/4.
10	11 52 32**			New Britain aftershock.
10	20 51 42*	17-1/2 S.	174 W.	Tonga Islands. h about 60 km.
10	23 03 41*	39 N.	140-1/2 E.	Northern Honshu, Japan. h about 100 km.
11	01 14 27**			Northern Celebes.
11	04 10 00**			Indian Ocean, 700 miles east of Mascarene Islands.
13	09 26 44*	9-1/2 S.	161 E.	Solomon Islands. Mag. 7.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
13	11 59 22**			Samoa Islands region.
13	16 19 51*	36 S.	177-1/2 E.	Off coast of North Island, New Zealand. h about 200 km.
13	17 50 16*	24 N.	121 E.	Formosa. Felt at Taipeh.
13	21 50 59*	12 N.	87 W.	Near coast of Nicaragua.
14	00 55 55*	16-1/2 S.	172 W.	Tonga Islands.
14	08 43 00*	3 S.	103-1/2 W.	Pacific Ocean, west of Galapagos Islands. Mag. 6 - 6-1/4.
14	09 55 11*	17-1/2 S.	179 W.	Fiji Islands. h about 600 km.
14	14 43 41*	24-1/2 S.	176-1/2 W.	Tonga Islands region.
15	04 31 15*	6 N.	77-1/2 W.	Near coast of Colombia.
16	04 41 23**			Farquhar Islands, 300 miles north of Madagascar.
16	17 16 38**			Near south coast of Kamchatka. h about 60 km.
17	01 08 07*	6 S.	154 E.	Solomon Islands.
17	20 08 54*	17-1/2 N.	43-1/2 E.	Southern Saudi Arabia.
18	15 32 47**			Eastern Tibet.
19	01 45 26*	40 N.	139-1/2 E.	Northern Honshu, Japan. Moderate damage.
19	09 54 43*	49-1/2 N.	155 E.	Northern Kurile Islands. Mag. 6-1/2.
19	20 36 30**			Kurile Islands aftershock.
20	01 33 30**			Southern Atlantic Ocean, about 300 miles north of South Georgia Island.
20	07 27 58*	52-1/2 N.	159 E.	Near east coast of Kamchatka.
21	04 32 03*	4 N.	95 E.	Near coast of Sumatra.
21	19 02 40*	21 S.	179 W.	Fiji Islands. h about 650 km. Mag. 6-1/4.
21	23 09 38*	1/2 S.	123-1/2 E.	Northern Celebes.
22	01 18 00*	67 N.	136 W.	Yukon, Canada.
22	10 09 20*	46 N.	156 E.	Kurile Islands.
22	11 18 22**			Celebes aftershock.
22	12 43 30*	0	123 E.	Do.
22	22 06 56*	6 S.	149 E.	New Britain.
22	22 33 10*	15 S.	176 W.	Fiji Islands region. h about 300 km.
23	17 04 09*	11-1/2 S.	163 E.	Solomon Islands.
24	00 40 15*	5 S.	150-1/2 E.	Off coast of New Britain. h about 250 km.
24	04 10 40.5	37.9 N.	121.9 W.	Contra Costa County, California. Moderate damage in Walnut Creek and Oakland. Mag. 5-1/2.
24	05 03 34**			Kermadec Islands.
25	03 08 28**			Near west coast of Greece.
25	16 34 23*	16-1/2 N.	95-1/2 W.	Oaxaca, Mexico.
25	17 49 40*	33 N.	115-1/2 W.	Imperial County, California. Felt. Mag. 4-1/2.

Date 1955	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	° '	° '	
26	11 12 39*	24-1/2 N.	122-1/2 E.	Near east coast of Formosa. Felt.
27	00 04 10*	52 N.	179-1/2 W.	Andreanof Islands, Aleutian Islands. h about 100 km.
27	01 36 58*	17 S.	179 W.	Fiji Islands. h about 600 km.
27	02 55 40*	20 N.	155-1/2 W.	Island of Hawaii, T. H.
27	03 34 17*	49 N.	157-1/2 E.	Kurile Islands region.
27	11 06 32*	10-1/2 S.	166 E.	Santa Cruz Islands.
27	11 50 40*	52-1/2 N.	159-1/2 E.	Off east coast of Kamchatka.
28	09 17 12*	58-1/2 N.	138 W.	Near coast of southeastern Alaska. Felt at Sitka.
28	12 01 06*	20 S.	178 W.	Fiji Islands. h about 600 km.
29	03 14 40**			Off east coast of Kamchatka.
29	20 56 07*	54-1/2 N.	161-1/2 E.	Near east coast of Kamchatka.
30	02 01 39*	29-1/2 S.	178-1/2 W.	Kermadec Islands.
30	11 34 40*	1/2 S.	123-1/2 E.	Northern Celebes.
30	19 20 50*	19 S.	180	Fiji Islands. h about 650 km.
31	01 05 53*	52 N.	175-1/2 W.	Andreanof Islands, Aleutian Islands. Mag. 5-3/4 - 6.
31	08 25 05**			Tonga Islands region. h about 650 km.

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

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Date and Station		Phase (GCT)
		h m s
BOZ	eP	23 08 09
	e	08 28
BUT	eP	23 08 12
EUR	iP	23 07 38
	i	08 08
HH	eP	23 08 22
SLC	eP	23 07 46
TUC	eP	23 06 53
Oct. 3		
BC	iP	03 04 15
EUR	iP	03 03 49
HH	iP	03 04 17
TUC	iP	03 03 52
Oct. 3		
HH	e(P)	03 49 46
TUC	eP	03 48 47
Oct. 3		
EUR	eP	05 16 15
Oct. 3		
SLC	e(P)	08 26 19
Oct. 3		
BOZ	eP	09 13 24
BUT	eP	09 13 26
EUR	eP	09 12 58
Oct. 3		
TUC	eP	09 52 08
Oct. 3		
EUR	iP	10 05 33
	e	05 52
Oct. 3		
BC	eP	10 14 24
	i	14 31
	e(pP)	16 16
COL	eP	10 14 30
	epP	16 48
EUR	eP	10 13 56
	ipP	16 02
TUC	eP	10 13 59
	e	14 54
	epP	16 18
Oct. 3		
BC	i(P)	11 28 26
BOZ	e(P)	11 26 52
	eL	30 43

Date and Station		Phase (GCT)
		h m s
BUT	eP	11 26 38
	eS	29 18
	eL	29 38
COL	iP	11 28 25
EUR	iP	11 27 12
	i	27 19
HH	iP	11 26 15
	e	26 31
	eL	28 43
SLC	eP	11 27 26
TUC	eP	11 28 53
Oct. 3		
BUT	eP	12 44 31
Oct. 3		
TUC	eP	13 23 54
Oct. 3		
COL	eP	14 22 33
Oct. 3		
BC	iP	17 47 15
BOZ	iP	17 46 35
	e	46 55
COL	iP	17 42 49
EUR	iP	17 46 47
HH	iP	17 46 07
	e	47 36
TUC	iP	17 47 56
	i	48 06
Oct. 3		
BC	e(P)	17 53 06
EUR	eP	17 53 52
HH	i(P)	17 52 37
	i	52 41
Oct. 3		
COL	iP	18 35 00
Oct. 3		
SJ	eP	18 42 13
Oct. 3		
EUR	e(P)	21 37 50
	e	38 22
Oct. 4		
EUR	e(P)	00 35 12
Oct. 4		
COL	iP	01 13 32
EUR	eP	01 16 57
	iP	17 02

Date and Station		Phase (GCT)
		h m s
HH	eP	01 16 28
	i	16 55
	e	18 23
	e	18 40
Oct. 4		
BOZ	eP	04 13 09
	e	13 27
COL	eP	04 09 44
	i	09 52
EUR	iP	04 13 10
	e	15 03
	i	24 05
HH	e(P)	04 12 40
Oct. 4		
BOZ	eP	05 28 43
Oct. 4		
BC	eP	06 34 46
	i	34 57
EUR	iP	06 35 34
HH	eP	06 36 23
Oct. 4		
BC	eP	07 39 31
	i	39 53
BOZ	e(P)	07 40 11
COL	eP	07 40 11
EUR	eP	07 39 38
	i	40 12
HH	eP	07 40 28
SLC	eP	07 39 57
TUC	eP	07 39 34
	e	46 58
	eL	08 06 17
Oct. 4		
BH	iP	18 52 56
	iS	53 26
Oct. 4		
HH	e(P)	20 52 57
Oct. 4		
COL	eP	21 01 31
EUR	iP	21 01 07
TUC	iP	21 01 08
Oct. 4		
COL	eP	22 27 20
Oct. 5		
BC	e(P)	00 59 37

Date and Station		Phase (GCT)
		h m s
COL	iP	00 59 30
	epP	01 00 34
EUR	iP	00 59 00
	ipP	59 42
HH	e(P)	00 57 10
Oct. 5		
BOZ	iP	01 50 31
COL	iP	01 49 20
	i	49 29
EUR	eP	01 50 35
	iP	50 39
HH	eP	01 49 58
Oct. 5		
HH	eP	03 08 01
Oct. 5		
COL	eP	03 35 42
Oct. 5		
COL	iP	04 39 46
Oct. 5		
COL	iP	05 23 23
Oct. 5		
BC	eP	05 35 30
BOZ	eP	05 35 19
BUT	eP	05 35 15
COL	eP	05 37 23
EUR	iP	05 34 53
HH	e(P)	05 34 59
	e	35 06
	e	35 20
TUC	e(P)	05 36 32
Oct. 5		
EUR	eP	05 41 59
	epP	42 15
Oct. 5		
BC	iP	09 07 58
	i	08 14
	e(S)	15 38
BOZ	iP	09 07 23
	i	07 54
BUT	iP	09 07 15
	e	07 36
	e(SS)	19 09
	eL	22 18
COL	iP	09 03 45
	i	04 17
	i	04 33

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Date and Station		Phase	(GCT) h m s
COL		i	09 05 25
		i	05 53
COLU		iP	09 09 51
		iS	19 38
		eL	36 32
EUR		iP	09 08 30
HH		iP	09 06 59
		e	07 21
		iPcP	08 17
		eScS	16 48
PHIL		eS	09 20 02
		eSS	25 00
		eL	28 30
SLC		iP	09 07 46
SJ		eP	09 11 32
TUC		iP	09 08 32
		i	09 30
		eS	17 03
		eScS	18 25
		eL	26 42
		eP'P'	37 26
WASH		iP	09 09 37
		i	10 42
		i	11 29
		iPP	12 44
		e	15 17
		eL	40 34
Oct. 5			
COL		iP	09 16 51
EUR		iP	09 20 40
Oct. 5			
COL		iP	09 18 12
		e(pP)	19 02
Oct. 5			
BC		e(P)	09 37 29
		i	37 39
HH		e(P)	09 37 13
Oct. 5			
COL		eP	16 48 31
Oct. 5			
COL		iP	17 15 17
EUR		eP	17 18 46
HH		eP	17 18 14
Oct. 5			
EUR		iP	17 37 16
		i	37 26
Oct. 5			
BC		eP	17 52 07
COL		eP	17 47 38

Date and Station		Phase	(GCT) h m s
HH		eP	17 52 10
		e	52 46
Oct. 5			
COL		eP	23 14 02
Oct. 5			
BUT		eP	23 57 12
Oct. 6			
HH		iP	04 51 38
		i	51 46
Oct. 6			
BC		eP	05 58 46
COL		iP	05 55 06
EUR		iP	05 57 59
HH		eP	05 57 38
Oct. 6			
HH		e(P)	06 14 41
Oct. 6			
EUR		iP	07 01 11
Oct. 6			
EUR		eP	07 25 36
HH		e(P)	07 20 48
Oct. 6			
BUT		eP	11 04 30
BC		iP	11 05 33
		i	05 43
COL		iP	11 06 10
COLU		iP	11 01 23
EUR		iP	11 04 59
		ipP	06 05
HH		eP	11 04 35
		e	05 53
PHIL		e	11 01 44
		eL	05 56
SJ		iP	11 00 32
		i	01 22
TUC		eP	11 04 48
WASH		eP	11 00 51
Oct. 6			
BC		eP	11 15 59
		iP	16 01
		i	16 40
		i	18 03
		e	19 44
		eS	26 08
BOZ		eP	11 16 02
		epP	16 45

Date and Station		Phase	(GCT) h m s
BUT		iP	11 16 10
		ipP	16 53
		iS	26 54
		isS	27 46
		i	28 05
		e(SS)	32 53
		eL	39 27
COL		eP	11 18 05
COLU		eP	11 14 20
		ipP	15 02
		e	18 03
		iS	23 13
		i	24 12
		i	25 26
		eL	34 15
EUR		iP	11 15 45
		ipP	16 27
		ePKKP	33 27
		iPKKP	33 34
HH		iP	11 16 16
		e	16 58
		ipP	17 04
		eS	26 29
		isS	27 11
PHIL		e(P)	11 14 56
		esP	15 57
		epPP	18 25
		iS	24 31
		i	24 52
		i(sS)	25 43
		e	30 06
		eSSS	33 15
		eL	34 00
RC		eP	11 15 42
		epP	16 24
		e(PP)	19 31
		e	21 23
		iS	26 03
		esS	26 48
		isS	27 16
		eSS	31 17
SLC		iP	11 15 43
		ipP	16 25
		eS	26 04
		esS	27 21
SJ		eP	11 12 37
		iS	20 07
		i	20 31
		iScS	21 38
		iSS	23 57
		eL	29 44
TUC		iP	11 15 03
		ipP	15 45
		e(PP)	18 20
		ePPP	20 17
		eS	24 50
		iS	24 51
		e	25 49
		esS	26 04

Date and Station		Phase	(GCT) h m s
TUC		eSS	11 29 16
		ePKKP	33 28
		eL	38 28
		e	41 48
		e	45 03
WASH		iP	11 14 49
		ipP	15 29
		e(S)	24 39
		i	25 34
		eL	34 17
Oct. 6			
COL		iP	11 21 43
Oct. 6			
COL		iP	11 32 03
		e	32 48
HH		iP	11 33 19
		i	33 55
		e	34 36
TUC		eP	11 33 56
Oct. 6			
EUR		eP	11 41 29
		i	41 43
Oct. 6			
EUR		eP	14 57 30
Oct. 6			
BC		i(P)	17 04 31
		i	04 52
Oct. 6			
BC		iP	18 01 49
		e	02 00
EUR		iP	18 01 43
HH		eP	18 01 20
		e	02 14
TUC		iP	18 01 58
		i	02 08
Oct. 6			
BOZ		eP	18 13 30
EUR		iP	18 16 52
		i	17 03
Oct. 6			
SLC		iP	22 49 49
		i(L)	50 17
Oct. 6			
EUR		eP	23 26 01
		epP	26 30
Oct. 7			
BC		eP	01 22 39
HH		eP	01 22 04
Oct. 7			
COL		eP	03 44 05

Date and Station		Phase (GCT)
		h m s
Oct. 7		
HH	eP	03 55 47
Oct. 7		
BC	eP	04 10 51
	i	11 03
COL	iP	04 11 49
EUR	i(P)	04 10 49
HH	iP	04 10 23
SLC	eP	04 10 25
TUC	e	04 10 36
Oct. 7		
SJ	eP	06 06 08
Oct. 7		
SLC	e	06 27 09
Oct. 7		
BC	eP	07 32 36
	e	32 49
	i	33 12
COL	iP	07 33 17
EUR	iP	07 32 42
SLC	eP	07 33 00
TUC	eP	07 32 40
	eL	58 48
Oct. 7		
COL	iP	08 02 46
Oct. 7		
SJ	iP	08 10 02
	e	10 56
Oct. 7		
COL	eP	08 32 09
SJ	e(P)	08 28 51
Oct. 7		
SJ	eP	08 39 25
Oct. 7		
COL	eP	09 31 18
Oct. 7		
COL	eP	14 06 41
Oct. 7		
COL	eP	14 09 39
Oct. 7		
BC	iP	15 00 33
	i	00 37
BUT	iP	15 01 11
COL	iP	15 03 40
	ipP	03 58
	e	04 14

Date and Station		Phase (GCT)
		h m s
COLU	e(P)	14 58 34
	ipP	59 05
EUR	iP	15 00 53
HH	iP	15 01 28
	epP	01 57
SLC	eP	15 00 44
Oct. 7		
BUT	eP	17 54 09
	e	54 35
Oct. 7		
BC	iP	21 16 42
	e	16 56
	i	18 19
	epP	18 34
	i	18 39
COL	iP	21 13 06
	ipP	14 43
EUR	iP	21 16 23
	i	16 39
	i	16 45
	ipP	18 01
	i	18 15
HH	iP	21 15 56
Oct. 7		
HH	e(P)	23 08 38
Oct. 8		
EUR	eP	00 43 15
Oct. 8		
BC	eP	01 10 09
EUR	eP	01 10 24
TUC	eP	01 09 51
Oct. 8		
COL	eP	05 34 36
Oct. 8		
SJ	eP	06 36 24
Oct. 8		
COL	iP	06 48 28
HH	eP	06 52 34
	e	52 46
	i	53 00
Oct. 8		
COL	iP	07 06 59
Oct. 8		
COL	eP	09 39 11
Oct. 8		
BUT	e(P)	11 56 39
Oct. 8		
SLC	eP	15 56 57

Date and Station		Phase (GCT)
		h m s
Oct. 8		
SLC	eP	17 59 18
Oct. 8		
BC	e(P)	21 17 55
	i	18 00
	i	18 05
COL	eP	21 18 23
EUR	iP	21 18 06
TUC	eP	21 18 03
Oct. 8		
EUR	iP	21 23 19
Oct. 8		
HH	iP	23 43 13
Oct. 9		
HH	iP	00 26 29
Oct. 9		
BC	iP	01 23 16
	ipP	23 41
BUT	iP	01 23 10
	ipP	23 34
COL	iP	01 21 17
	ipP	21 33
	isP	21 40
EUR	iP	01 23 04
HH	eP	01 23 02
	ipP	23 27
SLC	eP	01 23 19
TUC	eP	01 23 35
Oct. 9		
COL	iP	03 35 26
EUR	eP	03 38 49
HH	iP	03 38 21
Oct. 9		
BC	eP	03 45 14
	i	45 30
	i	46 20
SLC	eP	03 45 47
TUC	e(P)	03 46 58
	e	48 55
Oct. 9		
BUT	iP	09 09 39
	i	09 50
Oct. 9		
COL	iP	10 49 08
Oct. 9		
COL	eP	12 15 50

Date and Station		Phase (GCT)
		h m s
Oct. 9		
HH	eP	14 31 08
Oct. 9		
COL	eP	15 30 26
Oct. 9		
EUR	iP	16 03 08
Oct. 9		
COL	iP	16 45 50
EUR	iP	16 42 12
Oct. 9		
BC	iP	17 53 33
	e	54 03
	iPP	57 22
BOZ	eP	17 53 48
	eL	18 27 14
COL	iP	17 52 31
COLU	eP	17 59 09
	eL	18 15 46
EUR	iP	17 53 31
	eS	18 04 20
	ePS	05 22
HH	eP	17 53 37
PHIL	e(SSS)	18 34 16
	eL	41 05
SLC	e	18 06 56
	eL	25 58
SJ	iP'	17 59 40
	e	18 00 14
TUC	ePP	17 57 56
	eL	18 23 20
Oct. 9		
SJ	iP	18 03 17
Oct. 9		
BC	e(P)	18 19 38
Oct. 9		
EUR	eP	18 39 57
Oct. 9		
EUR	iP	20 48 17
Oct. 9		
EUR	eP	21 12 56
Oct. 9		
BC	iP	23 22 37
	i	22 48
BOZ	eP	23 22 08
	e	41 26
BUT	eP	23 22 01

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Date and Station		Phase	(GCT) h m s
COL	iP		23 18 45
	i		18 52
	i		19 03
	i		20 10
	iS		22 53
	iL		23 17
COLU	eP		23 25 03
	eL		49 50
EUR	iP		23 22 14
HH	iP		23 21 43
	i		21 56
	i		23 50
	e		24 26
	e	(ScP)	27 31
PHIL	eS		23 34 27
	eSS		38 47
	eL		47 00
SIC	iP		23 22 28
	eL		43 00
SJ	iP		23 26 50
	i		27 21
	e		27 41
TUC	iP		23 22 13
	i		22 23
	ePP		24 20
	eS		31 16
	eL		43 13
Oct. 10			
COL	iP		00 11 23
Oct. 10			
COL	eP		00 31 47
EUR	eP		00 36 19
TUC	e	(P)	00 36 58
Oct. 10			
COL	iP		00 49 52
Oct. 10			
BC	eP		01 29 12
	i		29 23
COL	iP		01 25 44
EUR	iP		01 28 54
	i		29 05
HH	e	(P)	01 28 21
TUC	e	(P)	01 29 47
Oct. 10			
COL	iP		04 01 25
	i		02 03
Oct. 10			
HH	e	(P)	04 31 20

Date and Station		Phase	(GCT) h m s
Oct. 10			
COL	eP		04 35 41
EUR	eP		04 39 10
Oct. 10			
COL	iP		04 55 47
Oct. 10			
EUR	eP		05 12 28
TUC	eP		05 13 06
Oct. 10			
COL	iP		05 21 12
Oct. 10			
EUR	iP		06 15 28
Oct. 10			
BC	eP		08 48 37
BOZ	eP		08 48 27
EUR	eP		08 47 54
HH	iP		08 48 11
Oct. 10			
BC	iP		09 11 10C
	i		11 25
	i		12 05
	ePP		15 09
	i		15 46
	iS		22 00
	eP'P'		36 30
	iP'P'		36 46
BOZ	eP		09 11 25
	iSKS		22 05
	eL		10 43 03
BUT	eP		09 11 19
	i		11 32
	ePP		15 14
	ePPP		17 21
	eSKS		21 56
	e		22 13
	ePKKP		28 15
	eSS		29 35
	eP'P'		36 35
	eL		37 53
CHI	e	(PP)	09 17 21
	eSKS		23 18
	eSKKS		24 32
	ePS		27 05
	e		33 42
	e		37 13
	eL		44 28
COL	iP		09 10 04C
	i		10 09D
	e		13 41
	i		16 26
	iS		20 15
	iSS		25 54
	eSSS		29 17
	e	(PKKP)	29 47

Date and Station		Phase	(GCT) h m s
COL	iL		09 31 48
	iP'P'		35 54
	e	(SKPP')	40 14
COLU	iP		09 16 45
	eL		34 14
EUR	eP		09 11 03D
	iP		11 08C
	ePKKP		28 18
	iP'P'		35 59
HONO	eP		10 07 19
	ePcP		08 10
	ePP		09 27
	ePPP		10 39
	eS		15 08
	eScS		17 15
	eL		19 07
T_L = 17 sec. $A_{max.}$=13mm.			
HH	eP		09 11 16
	e		11 25
	i		11 33
	i		13 34
	iPP		15 12
	i		17 36
	i		17 54
	i		18 05
	iSKS		22 05
	ePKKP		28 17
PHIL	ePP		09 18 30
	e	(PKS)	19 51
	eSKS		24 53
	e		26 49
	e	(PS)	29 18
	e		31 24
	e	(SS)	36 34
	e		41 28
	eL		49 32
RC	eP		09 12 00
	ePP		16 15
	ePPP		18 12
	eSKS		22 24
	eSKKS		22 52
	eS		23 23
	ePPS		25 51
	eSS		30 38
	eSSS		34 23
	eL		38 49
SIC	eP		09 11 22
	iP		11 31
	e		14 28
	ePP		15 29
	ePPP		17 08
	eSKS		22 21
	ePS		23 48
	ePPS		24 20
	ePKKP		28 01
	eSS		29 35
	eSSS		32 50
	eP'P'		36 40
	eL		37 22

Date and Station		Phase	(GCT) h m s
SJ	iP'		09 17 11C
	i		17 36
	iPKS		20 56
	i		24 02
	i	(SKS)	25 44
	i		27 40
STT	iP		09 10 21
	ePP		13 28
	e	(PPP)	15 14
	eS		20 50
	ePS		21 46
	ePPS		21 53
	eSS		26 02
	eSSS		29 04
	eL		32 02
TUC	eP		09 11 27
	i		11 43
	e		12 34
	ePP		15 16
	e		18 57
	eSKS		22 28
	ePS		22 53
	e		24 07
	eP'P'		28 03
	eSS		28 33
	eSSS		33 35
	eL		37 12
UK	e		09 20 47
	eS		21 16
	eSS		27 35
	eL		33 53
WASH	eP'		09 16 48C
	ePS		27 14
Oct. 10			
COL	iP		09 16 53
	ipP		17 47
EUR	eP		09 16 20
Oct. 10			
COL	iP		09 23 17
EUR	iP		09 21 11
SJ	iP		09 24 02
TUC	iP		09 22 18
Oct. 10			
SJ	iP		09 25 44
	i		27 40
Oct. 10			
COL	iP		09 35 53
HH	i	(P)	09 36 24
Oct. 10			
COL	iP		09 46 14
Oct. 10			
COL	eP		09 52 28

Date and Station		Phase (GCT) h m s
Oct. 10		
COL	iP	10 11 00
HH	eP	10 13 57
Oct. 10		
COL	iP	10 44 16
Oct. 10		
COL	iP	10 47 58
Oct. 10		
COL	eP	11 39 10
Oct. 10		
COL	eP	11 43 40
EUR	eP	11 48 58
Oct. 10		
COL	iP	11 50 06
Oct. 10		
BC	eP	12 06 00
COL	iP	12 04 58
EUR	iP	12 05 58
	i	06 26
	i	06 56
HH	eP	12 06 05
	e	06 49
	e	07 10
Oct. 10		
COL	iP	12 19 37
Oct. 10		
COL	iP	12 23 44
	e	23 58
Oct. 10		
EUR	iP	12 43 36
Oct. 10		
COL	iP	13 10 44
Oct. 10		
COL	eP	13 28 15
Oct. 10		
COL	eP	13 57 32
Oct. 10		
COL	iP	14 12 41
Oct. 10		
COL	eP	14 41 36
Oct. 10		
COL	eP	15 20 12
Oct. 10		
COL	iP	16 04 53
EUR	iP	16 08 33

Date and Station		Phase (GCT) h m s
HH	iP	16 07 45
	e	07 50
TUC	iP	16 09 28
Oct. 10		
COL	eP	16 41 43
Oct. 10		
COL	eP	16 56 47
Oct. 10		
BUT	eP	19 29 14
COL	iP	19 27 21
	epP	28 02
	e	28 51
EUR	iP	19 29 14
HH	iP	19 29 07
Oct. 10		
COL	eP	20 45 28
	e	45 38
EUR	iP	20 48 14
HH	iP	20 47 52
	e	48 02
Oct. 10		
COL	eP	21 04 11
	ipP	04 25
EUR	eP	21 04 02
	i	04 11
	ipP	04 27
HH	eP	21 04 20
TUC	eP	21 03 37
	e(SS)	17 58
	eL	31 50
Oct. 10		
BC	eP	23 16 02
	e	16 10
	e	16 33
BOZ	iP	23 15 09
	i	15 34
BUT	eP	23 15 03
COL	iP	23 12 10
	ipP	12 52
EUR	iP	23 15 38
	ipP	16 00
	i	16 10
HH	iP	23 14 50
	ipP	15 13
SIC	iP	23 15 35
TUC	iP	23 15 58

Date and Station		Phase (GCT) h m s
Oct. 11		
SJ	iP	00 09 08
Oct. 11		
COL	e(P)	01 27 25
	e	27 33
EUR	iP'	01 33 08
	iPP	34 24
HH	e(P')	01 33 04
SJ	iP'	01 35 06
	e	35 30
Oct. 11		
BOZ	eP	02 08 32
COL	iP	02 09 20
	ipP	09 30
EUR	eP	02 09 23
HH	eP	02 08 30
	iP	08 31
	e	11 49
SJ	iP	02 01 50
Oct. 11		
COL	eP	02 31 01
	i	31 13
HH	eP	02 30 13
Oct. 11		
COL	iP	03 05 41
Oct. 11		
COL	eP	03 16 48
Oct. 11		
BUT	e(P')	04 30 21
COL	eP'	04 29 33
EUR	eP'	04 30 49
HH	eP'	04 30 02
	e	33 32
Oct. 11		
COL	eP	05 02 11
HH	eP	05 03 27
	i	03 54
SJ	eP	04 57 12
Oct. 11		
COL	iP	05 04 41
Oct. 11		
TUC	e(P)	05 18 25
Oct. 11		
COL	eP	10 44 31

Date and Station		Phase (GCT) h m s
Oct. 11		
COL	eP	11 26 58
Oct. 11		
COL	eP	12 56 27
Oct. 11		
COL	eP	13 18 23
Oct. 11		
COL	eP	13 38 27
Oct. 11		
HH	eP	14 47 57
	e	49 35
Oct. 11		
COL	iP	15 18 57
EUR	eP	15 18 23
Oct. 11		
COL	eP	15 30 52
Oct. 11		
COL	eP	16 02 12
Oct. 11		
COL	eP	16 37 00
EUR	iP	16 35 28
HH	e(P)	16 36 52
	i	37 21
Oct. 11		
COL	iP	17 55 57
Oct. 11		
EUR	iP	20 34 40
	epP	36 51
Oct. 11		
HH	e(P)	20 46 47
Oct. 11		
COL	i(P)	21 41 47
Oct. 12		
SJ	iP	00 16 23
Oct. 12		
BC	i(P)	03 23 13
EUR	eP	03 18 08
Oct. 12		
EUR	eP	04 27 22
Oct. 12		
COL	iP	04 42 21
Oct. 12		
COL	iP	06 32 17
Oct. 12		
EUR	eP	07 59 19

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

Date and Station		Phase (GCT)
		h m s
HH	eP	01 08 23
	i	08 33
	i	08 52
SLC	eP	01 08 09
TUC	eP	01 07 50
	i	07 58
	eL	34 12
Oct. 14		
HH	e(P)	01 42 10
Oct. 14		
EUR	iP	02 50 13
Oct. 14		
COL	iP	06 13 03
Oct. 14		
EUR	iP	07 13 52
Oct. 14		
BC	eP	08 50 44
	i	50 52
	e	56 43
BOZ	iP	08 51 53
	eL	09 10 05
BUT	eP	08 51 57
	eS	59 11
	e	09 01 22
	e	02 41
	eL	04 29
COL	eP	08 54 45
	e	55 41
	eS	09 04 23
	eL	15 30
COLU	eP	08 51 02
	e	52 41
	i	57 32
	i	09 00 58
	eL	01 44
EUR	iP	08 51 10
	i	52 54
HH	eP	08 52 14
	i	52 21
PHIL	eP	08 55 52
	eS	09 00 25
	eL	03 44
SLC	eP	08 51 16
	ePP	52 52
	eS	57 54
	e	09 00 50
	eL	01 19
SJ	iP	08 51 01
TUC	eP	08 50 05
	iP	50 07
	eS	55 48
	e	58 26

Date and Station		Phase (GCT)
		h m s
TUC	eL	09 00 46
WASH	iP	08 51 52
	eL	09 08 30
Oct. 14		
EUR	eP	09 15 09
Oct. 14		
COL	eP	10 06 51
EUR	iP	10 06 32
HH	eP	10 07 01
TUC	eP	10 06 35
Oct. 14		
BOZ	eP	10 17 12
EUR	iP	10 16 02
	e	17 45
HH	eP	10 17 36
	e	17 47
TUC	eP	10 15 26
Oct. 14		
SLC	e(P)	13 51 51
Oct. 14		
COL	iP	14 56 52
EUR	iP	14 56 22
TUC	eP	14 56 21
Oct. 14		
EUR	iP	18 25 13
Oct. 14		
COL	iP	19 59 26
Oct. 14		
SLC	e(P)	21 50 51
Oct. 14		
HH	e(P)	22 35 23
Oct. 15		
SLC	e(P)	00 14 35
Oct. 15		
COL	i(P)	01 03 53
Oct. 15		
BH	iP	04 32 11
	iS	32 36
BOZ	eP	04 40 07
COL	eP	04 43 09
EUR	iP	04 39 58
HH	eP	04 40 31
	e	40 39

Date and Station		Phase (GCT)
		h m s
SLC	eP	04 39 46
SJ	eP	04 35 09
	i	35 14
	i	35 21
TUC	iP	04 39 00
Oct. 15		
HH	eP	06 57 15
Oct. 15		
EUR	iP	10 15 42
HH	eP	10 15 36
Oct. 15		
EUR	iP	12 32 58
Oct. 15		
SLC	e(P)	13 17 31
Oct. 15		
COL	eP	19 02 51
EUR	iP	19 06 48
HH	eP	19 06 12
Oct. 15		
EUR	eP	21 19 23
	epP	19 56
Oct. 15		
HH	eP	21 45 51
	e	46 04
Oct. 16		
COL	eP	01 56 39
Oct. 16		
HH	e(P)	02 06 56
Oct. 16		
HH	eP	03 07 40
Oct. 16		
HH	e(P)	03 31 58
	e	36 06
Oct. 16		
EUR	iP	04 34 04
Oct. 16		
TUC	iP'	05 01 36
Oct. 16		
TUC	eP	07 12 16
Oct. 16		
EUR	iP	08 01 23
Oct. 16		
TUC	e(P)	09 48 15
Oct. 16		
EUR	eP	10 12 20

Date and Station		Phase (GCT)
		h m s
Oct. 16		
HH	e(P)	10 51 29
Oct. 16		
SLC	eP	11 39 31
Oct. 16		
EUR	eP	12 40 49
Oct. 16		
EUR	iP	13 52 05
Oct. 16		
EUR	eP	14 53 50
	epP	54 08
Oct. 16		
EUR	iP	17 26 35
	ipP	26 49
HH	eP	17 26 02
TUC	eP	17 27 28
	epP	27 43
Oct. 16		
SLC	e(P)	17 46 36
Oct. 16		
HH	e(P)	19 23 18
Oct. 16		
COL	e(P)	19 28 47
EUR	iP	19 29 10
HH	eP	19 31 37
	e	31 51
Oct. 17		
COL	iP	01 20 29
EUR	iP	01 21 26
	e	21 51
HH	e(P)	01 21 41
Oct. 17		
EUR	iP	02 47 41
Oct. 17		
EUR	eP	04 02 29
	i	02 38
HH	eP	04 03 15
	e	03 28
TUC	eP	04 01 34
	e	01 43
Oct. 17		
HH	eP	04 14 24
	i	15 08
Oct. 17		
EUR	iP	05 31 08

Date and Station	Phase	(GCT) h m s
HH	iP	05 30 48
	e	31 41
	e	33 54
Oct. 17		
EUR	iP	05 49 07
HH	e(P)	05 48 27
Oct. 17		
BOZ	eP	07 02 36
EUR	iP	06 59 51
	epP	07 02 11
TUC	eP	06 59 17
	e	07 01 27
Oct. 17		
EUR	iP	08 52 09
HH	eP	08 51 41
Oct. 17		
EUR	eP	11 31 59
TUC	e(P)	11 30 23
Oct. 17		
EUR	eP	12 42 51
Oct. 17		
EUR	eP	13 18 37
Oct. 17		
EUR	eP	13 52 52
Oct. 17		
EUR	eP	14 09 10
Oct. 17		
EUR	iP	17 32 28
Oct. 17		
HH	eP	19 09 46
TUC	eP	19 07 15
	eL	12 30
Oct. 17		
EUR	iP	19 23 40
Oct. 17		
EUR	e(P')	20 27 45
	iP'	27 48
Oct. 17		
HH	eP	21 46 47
Oct. 17		
BOZ	e(P)	23 26 55
HH	eP	23 26 25
	e	26 44
SLC	eP	23 27 10
SJ	eP	23 31 35
	i	31 41

Date and Station	Phase	(GCT) h m s
Oct. 18		
EUR	iP	00 11 38
HH	eP	00 12 09
Oct. 18		
EUR	iP	00 18 52
Oct. 18		
EUR	eP	00 30 29
Oct. 18		
SLC	eP	01 57 23
Oct. 18		
SLC	eP	03 41 55
Oct. 18		
COL	eP	05 57 12
Oct. 18		
COL	eP	06 52 35
Oct. 18		
EUR	iP	07 40 25
Oct. 18		
EUR	iP	07 43 30
Oct. 18		
EUR	eP	10 41 48
Oct. 18		
EUR	eP	13 15 27
Oct. 18		
EUR	eP	13 39 34
Oct. 18		
COL	eP	14 02 35
Oct. 18		
COL	eP	14 15 34
EUR	iP	14 19 29
Oct. 18		
HH	e(P)	15 01 04
Oct. 18		
COL	eP	15 44 33
Oct. 18		
EUR	iP	20 27 28
	e	27 39
Oct. 18		
EUR	eP	21 34 35
	i	35 10
Oct. 18		
EUR	iP	23 03 49
HH	eP	23 04 09
Oct. 19		
EUR	iP	01 26 05

Date and Station	Phase	(GCT) h m s
Oct. 19		
EUR	iP	01 41 43
Oct. 19		
BOZ	e(P)	01 57 07
COL	iP	01 54 02
HH	iP	01 56 44
	e	56 54
TUC	eP	01 57 54
Oct. 19		
EUR	eP	02 15 52
Oct. 19		
COL	e(P)	06 15 36
EUR	iP	06 19 00
Oct. 19		
TUC	eP	06 45 01
Oct. 19		
BOZ	e(P)	07 33 33
HH	e(P)	07 33 38
Oct. 19		
EUR	eP	09 48 39
Oct. 19		
BC	eP	10 05 18
	e	05 31
	eS	13 50
BOZ	eP	10 04 50
	i	05 18
	eS	12 54
	eSS	16 46
	eP'P'	34 28
BUT	eP	10 04 41
	iP	04 43
	e(PP)	07 34
	eS	12 43
	i	13 07
	eScS	14 29
	eSS	16 45
	eL	19 55
CHI	eP	10 06 15
	ePPP	10 55
	eS	15 43
	e	16 06
	eSSS	24 03
	eL	29 08
COL	iP	10 01 23
	e	01 55
	eS	06 42
	e	07 00
COLU	eP	10 07 12
	iPP	10 22
	iS	17 26
	iScS	17 50
	eL	33 28

Date and Station	Phase	(GCT) h m s
EUR	iP	10 04 57
	e(P'P')	33 33
HONO	e(P)	10 03 36
	eS	10 08
	eL	13 42
T_L = 22 sec. $A_{max.}$ = 1.5mm.		
HI	iP	10 04 25
	iPP	06 23
	eS	12 10
	i	12 39
	iScS	14 14
	i	14 36
	eP'P'	34 17
PHIL	eP	10 06 58
	eS	16 58
	eSS	22 07
	eSSS	25 49
	eL	29 08
RC	eP	10 05 23
	ePcP	06 14
	ePP	08 03
	ePPP	09 01
	iS	14 01
	i	14 29
	eScS	15 41
	eL	21 31
SLC	eP	10 05 07
	iP	05 09
	e(PP)	07 36
	eS	13 32
	iS	13 59
	iScS	14 59
	i	15 23
	eSS	17 35
	eL	20 53
SJ	eP'	10 12 57
TUC	iP	10 05 49
	i	06 01
	ePP	08 42
	eS	14 57
	eL	22 51
	eP'P'	34 04
WASH	iP	10 06 58
	iPP	09 58
	e(S)	17 32
	eL	39 22
Oct. 19		
COL	iP	11 46 34
EUR	iP	11 45 12
TUC	eP	11 46 12
Oct. 19		
EUR	eP	12 48 55
Oct. 19		
EUR	iP	15 34 36

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Date and Station		Phase (GCT) h m s
Oct. 19		
EUR	iP	17 12 33
Oct. 19		
EUR	eP	18 07 23
Oct. 19		
EUR	eP	18 37 41
Oct. 19		
COL	eP	20 43 06
EUR	iP	20 46 41
HH	e(P)	20 46 13
Oct. 19		
COL	eP	21 19 37
EUR	iP	21 23 33
	i	23 45
Oct. 20		
BOZ	eP	00 13 25
	e(S)	17 52
	eL	19 33
COL	eP	00 16 33
EUR	iP	00 13 46
HH	eP	00 12 50
	e	16 33
	i	16 50
Oct. 20		
COL	iP'	01 52 55
	i	53 08
HH	eP'	01 52 13
SJ	iP	01 45 03
	i	45 18
Oct. 20		
EUR	iP	02 02 40
HH	eP	02 02 21
	e	02 35
Oct. 20		
EUR	eP	04 04 17
	i	05 37
	e	08 31
HH	e(P)	04 03 21
	i	03 49
TUC	eP	04 03 21
Oct. 20		
EUR	eP	05 04 44
Oct. 20		
EUR	iP	06 50 41
Oct. 20		
EUR	eP	06 53 40

Date and Station		Phase (GCT) h m s
Oct. 20		
EUR	iP	07 24 06
Oct. 20		
COL	eP	07 34 02
	i	34 12
EUR	iP	07 37 47
	i	37 59
	i	38 56
HH	eP	07 37 22
	e	37 34
	e	38 38
SIC	e(P)	07 37 57
TUC	eP	07 38 43
	e	38 57
Oct. 20		
EUR	eP	09 31 51
Oct. 20		
EUR	e(P)	11 07 08
Oct. 20		
EUR	iP	11 20 59
Oct. 20		
BOZ	eP	12 13 48
EUR	iP	12 13 49
	i	14 30
	e	18 14
HH	eP	12 13 46
	i	14 30
	e	14 55
SIC	eP	12 13 51
TUC	iP	12 13 42
Oct. 20		
EUR	iP	13 11 54
SIC	e(P)	13 12 05
Oct. 20		
BOZ	eP	13 22 35
COL	eP	13 19 44
EUR	iP	13 22 38
	i	22 47
	i	22 56
	i	23 05
HH	iP	13 22 15
	i	22 24
SIC	eP	13 22 48
TUC	e(P)	13 23 17
Oct. 20		
TUC	eP	15 11 35

Date and Station		Phase (GCT) h m s
Oct. 20		
HH	eP	16 36 18
Oct. 20		
EUR	iP	17 34 37
Oct. 20		
COL	eP	19 49 55
Oct. 20		
EUR	iP	19 58 47
Oct. 20		
COL	eP	21 00 25
Oct. 20		
EUR	iP	22 36 51
Oct. 20		
TUC	e(P)	22 46 43
Oct. 20		
HH	eP	22 50 59
	e	51 38
Oct. 21		
EUR	iP	01 14 49
Oct. 21		
EUR	iP	02 44 05
Oct. 21		
HH	e(P)	03 14 27
Oct. 21		
COL	eP	03 49 04
EUR	iP	03 52 58
Oct. 21		
COL	eP	03 59 42
Oct. 21		
BOZ	eP'	04 51 07
	ePP	52 56
BUT	eP'	04 51 04
	ePP	52 48
COL	eP	04 45 36
	i	48 55
	eSKS	56 06
	ePS	58 34
	eSS	05 03 36
	eL	15 48
COLU	eP'	04 51 38
EUR	iP'	04 51 10
	iPP	53 11
HH	iP'	04 50 58
	e	51 21
	iPP	52 31
	ePKKP	05 00 59
SIC	eP'	04 51 14
	ePP	53 16
	ePKS	54 29

Date and Station		Phase (GCT) h m s
SJ	eP'	04 51 54
	iP'	51 59
	i	52 31
TUC	eP'	04 51 19
	i	51 29
	iPP	54 53
Oct. 21		
COL	eP	05 02 16
Oct. 21		
BC	eP	05 55 44
Oct. 21		
COL	eP	06 33 53
EUR	iP	06 37 42
Oct. 21		
HH	eP	07 06 34
Oct. 21		
EUR	eP	08 26 20
Oct. 21		
COL	eP	08 45 35
EUR	iP	08 49 31
Oct. 21		
EUR	eP	10 06 44
Oct. 21		
COL	eP	10 15 22
Oct. 21		
COL	eP	11 13 34
EUR	iP	11 17 23
Oct. 21		
COL	eP	13 57 45
EUR	iP	14 00 56
	i	01 43
SIC	e(P)	14 01 51
TUC	e(P)	14 00 49
Oct. 21		
COL	eP	16 09 34
EUR	iP	16 13 27
Oct. 21		
BC	eP	19 14 03
	e	15 00
	epP	16 28
	iS	23 28
BOZ	eP	19 14 40
	ipP	16 57
	iPP	18 26
	iSKS	24 13
	iS	24 44
	i	25 35

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Date and Station		Phase	(GCT)
			h m s
BOZ		e	19 29 43
		eL	50 15
BUT		iP	19 14 36
		ipP	16 53
		e	19 07
		iSKS	24 06
		iS	24 34
		esS	28 37
		eSS	31 00
		eP'P'	40 13
COL		iP	19 14 29
		e	16 17
		epP	16 44
		esP	17 26
		iPP	18 20
		ePPP	20 44
		iSKS	23 55
		iS	24 21
		e	24 53
		eSP	25 25
		iesS	28 17
		iPKKP	32 04
		e	33 49
		iP'P'	40 11
COLU		ePP	19 20 26
		i	20 33
		iSKS	25 35
		i	26 29
		iPKKP	31 17
		i	31 34
EUR		iP	19 14 08
		ipP	16 24
		ePKKP	31 49
		iPKKP	32 16
		eP'P'	40 04
		iP'P'	40 27
		e	42 19
HONO		eP	19 10 17
		iP	10 19
		iPcP	11 37
		epP	12 16
		eScP	14 33
		iS	16 22
		i	17 52
		e	18 10
		eSS	20 40
		eL	21 42
T_S = 6 sec. A_S = 4mm.			
T_L = 11 sec. $A_{max.}$=1mm.			
HH		iP	19 14 36
		i	15 05
		ipP	16 53
		ePP	18 20
		e	19 25
		eSKS	24 05
		iS	24 38
		iSP	25 51
		iPKKP	32 04
		iP'P'	40 12
PHIL		e	19 25 14
		iSKKS	26 54
PHIL		iS	19 28 04
		ePS	31 03
		e	34 44
		e	35 27
		e(SS)	37 15
		e	41 03
		eL	49 27
RC		ipP	19 17 17
		ePP	18 56
		e	19 51
		ePPP	21 11
		iSKS	24 30
		iS	25 21
		eSP	26 40
SIC		iP	19 14 25
		ipP	16 43
		eSKS	23 54
		iSKS	23 57
		iS	24 11
		eSP	25 24
		esS	28 21
		eSS	30 26
		ePKKP	32 11
		esSS	33 14
		eP'P'	40 05
SJ		iP'	19 20 17
		ePP	21 36
		ePPP	24 32
		iSKS	26 11
		iSKKS	27 29
		eSP	30 30
		iPKKP	30 45
TUC		iP	19 14 10
		ipP	16 25
		iSP	16 55
		iPP	17 32
		esPP	20 26
		iSKS	23 34
		iS	23 48
		iSP	24 43
		esPS	28 29
		e	31 52
		iPKKP	32 19
		eL	35 10
		eP'P'	40 21
		iP'P'	40 29
		e	42 56
WASH		eSP	19 29 46
Oct. 21			
COL		eP	20 32 40
EUR		iP	20 40 02
Oct. 21			
COL		eP	20 47 16
EUR		iP	20 51 12
Oct. 21			
COL		eP	21 40 29
TUC		e(P)	21 40 04
Oct. 21			h m s
BC		eP'	23 28 44
BOZ		eP'	23 28 27
BUT		eP'	23 28 24
		eSKKS	36 11
		ePS	38 53
		e(SS)	44 15
		eL	55 00
COL		eP	23 23 39
		eSKS	33 06
		e	35 03
		e(SS)	38 57
		e	46 29
COLU		eP'	23 29 06
		i	29 13
		iPP	32 47
EUR		iP'	23 28 22
		iPP	29 30
HONO		eP	23 21 57
		e(S)	32 06
		eL	47 09
HH		eP	23 24 18
		i	24 32
		eP'	28 16
		iPP	28 57
		i	30 00
		eSKS	34 59
		ePKKP	39 34
SIC		iP'	23 28 29
		iPP	29 37
SJ		eP'	23 29 43
		i	30 22
		e	32 52
		ePP	34 09
		e	36 34
		eSKKKS	41 26
		eSS	54 17
		eSSS	00 01 20
		eL	17 32
TUC		eP'	23 28 35
		ePS	39 49
		eL	57 05
WASH		iP'	23 29 12
		iPP	32 46
		eL	00 20 48
Oct. 21			
BOZ		eP	23 39 14
EUR		iP	23 38 44
Oct. 22			
EUR		eP	01 15 12
Oct. 22			
BOZ		eP	01 23 27
BUT		eP	01 23 17
		eL	29 23
COL		iP	01 19 17
EUR		iP	01 24 04
HH		iP	01 22 50
		e	23 27
		eL	29 48
TUC		eP	01 25 16
Oct. 22			
EUR		iP	02 04 47
Oct. 22			
HH		eP	02 24 48
Oct. 22			
TUC		eP	02 53 48
Oct. 22			
COL		iP	03 09 06
EUR		iP	03 08 46
Oct. 22			
EUR		eP	03 37 39
Oct. 22			
COL		eP	03 48 45
Oct. 22			
COL		eP	03 56 35
Oct. 22			
COL		eP	04 03 40
EUR		iP	04 00 26
Oct. 22			
COL		eP	05 33 56
Oct. 22			
EUR		iP	05 47 51
Oct. 22			
COL		eP	06 07 02
Oct. 22			
HH		e(P)	06 16 36
Oct. 22			
EUR		eP	06 48 09
Oct. 22			
EUR		iP	07 05 26
		iL	06 39
SIC		e	07 07 49
		e	08 28
Oct. 22			
COL		iP	07 25 11
EUR		i(P)	07 25 53

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Date and Station		Phase (GCT)
		h m s
Oct. 22		
COL	eP	07 51 19
EUR	iP	07 53 26
HH	iP	07 53 17
Oct. 22		
EUR	iP	08 55 17
Oct. 22		
COL	eP	09 13 34
EUR	iP	09 10 27
SLC	e(P)	09 10 14
SJ	eP	09 05 42
TUC	eP	09 09 26
Oct. 22		
COL	eP	09 24 04
EUR	iP	09 27 59
Oct. 22		
COL	iP	10 16 41
EUR	eP	10 20 02
HH	eP	10 19 34
	e	19 56
SLC	eP	10 20 13
TUC	eP	10 20 51
Oct. 22		
COL	eP	10 20 00
Oct. 22		
EUR	iP	10 38 56
Oct. 22		
COL	e(P)	11 31 28
Oct. 22		
EUR	iP	12 51 17
Oct. 22		
COL	eP	12 56 29
Oct. 22		
COL	eP	14 55 09
EUR	iP	14 59 04
Oct. 22		
EUR	iP	16 37 58
Oct. 22		
EUR	eP	17 07 31
Oct. 22		
EUR	iP	18 48 39
Oct. 22		
HH	eP	19 39 46

Date and Station		Phase (GCT)
		h m s
HH	e	19 40 18
Oct. 22		
EUR	eP	20 16 37
Oct. 22		
EUR	iP	20 34 15
Oct. 22		
EUR	iP	20 44 56
Oct. 22		
EUR	e(P)	22 20 35
HH	e(P)	22 20 50
Oct. 22		
EUR	iP	22 23 52
Oct. 22		
COL	iP	22 45 03
	epP	46 16
EUR	iP	22 44 37
	ipP	45 58
HH	eP	22 45 07
	epP	46 30
SLC	eP	22 44 56
TUC	iP	22 44 38
	eL	54 40
Oct. 22		
COL	eP	23 01 39
EUR	iP	23 05 17
Oct. 22		
EUR	iP	23 46 10
	i	47 37
Oct. 22		
EUR	eP	23 49 30
Oct. 23		
EUR	iP	00 24 09
Oct. 23		
EUR	iP	01 47 53
Oct. 23		
EUR	eP	02 16 38
Oct. 23		
COL	iP	02 45 02
	ipP	46 15
Oct. 23		
BOZ	e(P)	03 36 44
COL	iP	03 31 51
EUR	eP	03 37 01
HH	iP	03 36 05
	i	36 26

Date and Station		Phase (GCT)
		h m s
Oct. 23		
EUR	iP	03 44 12
Oct. 23		
EUR	eP	04 14 47
Oct. 23		
EUR	eP	04 39 20
Oct. 23		
HH	e(P)	05 01 45
Oct. 23		
EUR	eP	05 13 48
TUC	iP	05 16 37
Oct. 23		
COL	iP	06 03 17
EUR	iP	06 06 50
	i	07 02
HH	e(P)	06 06 18
Oct. 23		
EUR	iP	06 19 38
Oct. 23		
COL	iP	06 48 36
Oct. 23		
EUR	iP	08 04 40
Oct. 23		
COL	iP	08 15 33
EUR	iP	08 19 03
HH	iP	08 18 30
Oct. 23		
EUR	iP	09 30 26
Oct. 23		
EUR	eP	10 49 31
Oct. 23		
SLC	eP	10 59 41
Oct. 23		
EUR	iP	11 10 37
Oct. 23		
EUR	eP	11 14 08
Oct. 23		
COL	eP	11 56 37
EUR	eP	11 59 39
Oct. 23		
EUR	iP	13 46 33
HH	e(P)	13 45 55
Oct. 23		
EUR	eP	13 55 51

Date and Station		Phase (GCT)
		h m s
Oct. 23		
EUR	iP	14 03 59
Oct. 23		
EUR	iP	15 50 36
Oct. 23		
EUR	eP	17 00 03
Oct. 23		
BOZ	e(P)	17 17 40
BUT	eP	17 17 33
COL	iP	17 16 44
EUR	iP	17 17 13
HH	e(P)	17 17 28
	e	17 50
TUC	eP	17 17 26
Oct. 23		
EUR	iP	17 55 08
Oct. 23		
EUR	iP	18 09 05
Oct. 23		
EUR	iP	18 55 57
Oct. 23		
EUR	iP	20 17 31
Oct. 23		
EUR	eP	21 10 25
Oct. 23		
EUR	eP	21 37 24
	i	37 54
Oct. 23		
COL	eP	22 00 54
EUR	iP	22 04 48
Oct. 23		
EUR	iP	22 55 12
Oct. 23		
EUR	iP	23 48 05
Oct. 24		
COL	iP	00 32 18
	ipP	33 31
	esP	33 46
EUR	iP	00 33 23
HH	eP	00 33 27
	e	34 00
	e	34 43
SJ	e(P)	00 39 19
Oct. 24		
EUR	eP	00 54 17

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Date and Station		Phase (GCT) h m s
Oct. 24		
COL	eP	01 15 09
EUR	iP	01 19 07
Oct. 24		
EUR	iP	01 36 10
Oct. 24		
COL	iP	03 11 20
EUR	iP	03 05 09
Oct. 24		
EUR	iP	03 33 22
Oct. 24		
COL	iP	03 45 36
EUR	eP	03 46 35
Oct. 24		
EUR	eP	03 55 48
Oct. 24		
BC	eP	04 11 46
	e	12 03
	e(S)	12 28
	iL	13 26
BOZ	eP	04 13 31
	i	14 07
	eL	16 20
BUT	eP	04 13 25
	eS	15 03
	eL	16 10
COL	eP	04 17 01
EUR	iP	04 11 57
HH	iP	04 13 38
	eL	17 02
PHIL	eL	04 27 53
RC	eP	04 14 21
	e	15 19
	eL	17 51
SLC	eP	04 12 47
	i	12 58
	e(S)	14 25
	iL	14 55
TUC	eP	04 13 17
	iP	13 25
	eS	15 18
	iL	16 20
UK	eP	04 11 06
	iS	11 24
	iL	11 33
Oct. 24		
EUR	eP	04 46 35

Date and Station		Phase (GCT) h m s
Oct. 24		
EUR	iP	04 57 52
Oct. 24		
COL	eP	05 17 13
EUR	iP	05 16 42
HH	eIP	05 21 18
SLC	eP	05 16 55
Oct. 24		
EUR	eP	06 55 07
Oct. 24		
COL	eP	07 00 36
EUR	iP	07 04 29
HH	e(P)	07 01 49
Oct. 24		
EUR	iP	08 08 18
Oct. 24		
EUR	eP	09 23 13
Oct. 24		
COL	eP	10 12 08
Oct. 24		
COL	e(P)	10 30 29
Oct. 24		
COL	eP	12 12 12
	e	12 36
EUR	eP	12 13 09
Oct. 24		
EUR	iP	12 39 50
Oct. 24		
EUR	eP	13 10 51
Oct. 24		
SLC	eP	13 42 02
Oct. 24		
BC	eP	13 48 51
	i	49 35
	i	49 43
Oct. 24		
EUR	iP	14 21 57
Oct. 24		
EUR	eP	14 38 40
Oct. 24		
EUR	iP	15 52 34
Oct. 24		
EUR	iP	16 12 54
SLC	eP	16 13 04
	eL	14 13

Date and Station		Phase (GCT) h m s
Oct. 24		
COL	eP	16 58 38
EUR	iP	17 01 34
Oct. 24		
EUR	eP	17 18 59
Oct. 24		
EUR	iP	17 55 24
Oct. 24		
EUR	iP	18 29 28
Oct. 24		
COL	e(P)	19 50 01
EUR	iP	19 54 56
Oct. 24		
EUR	i(P)	20 39 40
Oct. 24		
EUR	iP	21 46 45
Oct. 24		
EUR	iP	22 24 24
Oct. 24		
EUR	eP	22 44 28
	epP	45 01
Oct. 24		
EUR	iP	23 30 35
Oct. 25		
EUR	iP	00 47 41
Oct. 25		
EUR	iP	01 51 18
Oct. 25		
EUR	iP	02 41 33
Oct. 25		
COL	e(P)	03 20 45
EUR	i(PP)	03 25 37
HH	eP	03 21 01
Oct. 25		
EUR	iP	04 26 01
Oct. 25		
SLC	e(P)	04 35 20
Oct. 25		
EUR	eP	05 34 24
Oct. 25		
EUR	iP	06 05 34
SLC	eP	06 05 49
Oct. 25		
EUR	iP	06 28 11

Date and Station		Phase (GCT) h m s
Oct. 25		
EUR	iP	06 55 13
Oct. 25		
COL	eP	07 01 32
EUR	eP	07 04 40
Oct. 25		
COL	iP	07 10 44
EUR	iP	07 21 35
Oct. 25		
COL	e(P)	08 39 51
EUR	iP	08 44 42
Oct. 25		
EUR	eP	11 28 40
Oct. 25		
EUR	iP	12 15 56
Oct. 25		
EUR	iP	12 32 53
Oct. 25		
EUR	iP	13 16 11
Oct. 25		
COL	eP	13 47 47
	e	48 20
SLC	e(P)	13 46 00
Oct. 25		
EUR	iP	14 05 38
Oct. 25		
EUR	iP	14 56 17
Oct. 25		
EUR	iP	16 01 46
	ipP	02 23
Oct. 25		
EUR	iP	16 16 29
Oct. 25		
BC	eP	16 40 00
	i	48 57
BOZ	eP	16 40 53
	e	41 28
	eS	46 15
	eL	48 33
	iScS	52 42
BUT	eP	16 41 02
	eS	46 32
	eL	49 44
CHI	eP	16 40 01
	e(S)	44 39
	eL	47 27

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

Date and Station		Phase	(GCT) h m s
Oct. 27			
EUR		eP	07 40 01
HH		eP	07 40 25
Oct. 27			
EUR		iP	08 57 43
Oct. 27			
BOZ		eP	09 36 47
BUT		eP	09 37 02
EUR		eP	09 31 25
HH		e(P)	09 37 47
Oct. 27			
SLC		eP	10 36 36
		ipP	37 11
Oct. 27			
BOZ		eP	11 19 47
COL		iP	11 18 58
EUR		iP	11 19 24
		i	19 43
		e	22 22
HH		iP	11 19 40
TUC		eP	11 19 35
		e	20 06
Oct. 27			
COL		iP	11 47 37
Oct. 27			
COL		iP	11 56 42
EUR		iP	12 00 30
		i	00 41
HH		eP	11 59 52
		iPP	12 01 19
TUC		eP	12 01 23
Oct. 27			
EUR		eP	12 19 13
SLC		eP	12 19 40
Oct. 27			
HH		eP	12 38 39
Oct. 27			
EUR		iP	13 22 32
Oct. 27			
EUR		iP	13 44 09
		iS	44 32
		eL	44 58
Oct. 27			
COL		iP	14 34 09

Date and Station		Phase	(GCT) h m s
Oct. 27			
BC		i(P)	17 32 37
		i	32 47
TUC		e(P)	17 33 27
		e	33 48
Oct. 27			
EUR		eP	18 00 06
		iP	00 07
Oct. 27			
EUR		eP	18 57 18
Oct. 27			
EUR		eP	19 59 37
Oct. 27			
EUR		eP	20 24 52
		e	25 24
Oct. 27			
HH		eP	21 13 11
Oct. 27			
EUR		iP	22 03 51
Oct. 27			
EUR		eP	22 37 13
Oct. 27			
EUR		eP	23 14 02
Oct. 28			
EUR		iP	00 13 53
Oct. 28			
BOZ		eP	00 57 09
EUR		iP	00 58 49
HH		e(P)	00 57 12
Oct. 28			
EUR		iP	01 19 50
		i	26 35
Oct. 28			
BOZ		e(P)	01 33 50
EUR		eP	01 34 33
HH		e(P)	01 33 53
TUC		eP	01 34 38
Oct. 28			
SLC		eP	01 57 28
Oct. 28			
BOZ		eP	02 22 34
Oct. 28			
SLC		eP	02 34 11
Oct. 28			
COL		iP	02 48 43

Date and Station		Phase	(GCT) h m s
Oct. 28			
EUR		eP	03 07 40
Oct. 28			
COL		eP	03 30 38
Oct. 28			
COL		iP	04 47 45
Oct. 28			
COL		e(P)	04 50 12
HH		eP	04 56 56
Oct. 28			
HH		e(P)	07 44 02
Oct. 28			
EUR		eP	07 54 24
		iP	54 26
Oct. 28			
EUR		eP	09 05 44
Oct. 28			
BOZ		eP	09 21 54
BUT		eP	09 21 47
COL		iP	09 19 09
EUR		eP	09 22 29
HH		eP	09 21 20
		eL	26 13
SIT		eP	09 17 38
		e(P)	17 44
		iS	18 04
		iL	18 08
Oct. 28			
BUT		eP	09 27 30
Oct. 28			
EUR		eP	09 40 58
HH		e(P)	09 40 31
Oct. 28			
EUR		eP	11 04 35
Oct. 28			
EUR		eP	11 35 32
Oct. 28			
COL		eP	11 44 03
Oct. 28			
EUR		iP	12 06 17
Oct. 28			
COL		iP	12 12 58
EUR		iP	12 12 36
Oct. 28			
EUR		eP	12 28 30

Date and Station		Phase	(GCT) h m s
Oct. 28			
EUR		eP	13 42 51
Oct. 28			
COL		eP	15 15 01
Oct. 28			
EUR		iP	17 49 25
		e	51 35
Oct. 28			
EUR		iP	20 19 45
Oct. 28			
COL		eP	20 46 31
HH		iP	20 43 57
Oct. 28			
COL		e(P)	22 00 45
EUR		iP	22 04 43
Oct. 28			
COL		e(P)	23 39 38
EUR		iP	23 33 32
Oct. 29			
COL		e(P)	01 00 22
EUR		iP	01 04 19
Oct. 29			
COL		eP	02 29 40
		i	31 19
EUR		iP	02 32 51
Oct. 29			
COL		iP	03 20 25
EUR		eP	03 24 15
HH		iP	03 23 38
TUC		eP	03 25 13
Oct. 29			
COL		eP	05 55 11
EUR		iP	05 59 08
Oct. 29			
COL		eP	07 04 25
EUR		eP	07 08 18
Oct. 29			
SLC		eP	08 52 16
Oct. 29			
BOZ		eP	09 18 14
		e	18 36
Oct. 29			
COL		eP	10 05 51

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

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Date and Station	Phase	Phase (GCT) h m s
Oct. 31		
EUR	iP	11 36 55
Oct. 31		
COL	eP	15 11 32
	e	12 24
Oct. 31		
COL	eP	15 35 57
Oct. 31		
EUR	eP	17 12 04
Oct. 31		
COL	iP	18 55 51
EUR	iP	18 59 30
	i	59 46
HH	e(P)	18 59 29
Oct. 31		
EUR	eP	19 21 31
Oct. 31		
EUR	eP	20 28 26
Oct. 31		
EUR	eP	22 20 26
Oct. 31		
COL	iP	22 32 36
	i	32 43

Local and Minor Earthquakes

day	hour
BOZ	
Oct.	
19	00.2
20	22.8
BUT	
Oct.	
4	02.2
	05.5
5	04.9
	18.4
6	01.0
	05.8
7	00.7
	04.8
	17.8
	18.9
	23.9
8	02.5
	02.9
9	00.0
	02.1
	23.4
10	00.6
	04.9
	21.0
	21.6
11	00.1
	02.1
	22.2
12	01.0

Local and Minor Earthquakes

day	hour
BUT	
Oct.	
12	06.3
13	00.6
	23.2
15	00.9
16	01.1
	02.1
17	20.5
18	17.3
19	23.9
20	13.4
21	01.0
	18.8
22	18.3
	22.8
23	00.1
29	22.4
31	01.1
COL	
Oct.	
1	21.6
2	02.3
3	03.1
	03.8
	08.7
6	05.6
	06.7
7	00.1
8	06.8
9	06.8
10	00.8
	22.6
14	00.3
	13.6
15	16.4
16	23.9
18	15.2
21	14.7
22	01.3
23	00.2
24	01.5
	01.6
	08.6
25	13.5
	13.5
26	10.4
29	16.9
30	15.0
	21.9
	22.7
31	11.2
EUR	
Oct.	
2	12.5
3	01.8
	12.6
4	05.2
	17.8
5	17.2
7	01.3
	03.3
	11.9
8	06.7
	12.3
9	04.0
10	03.6

Local and Minor Earthquakes

day	hour
EUR	
Oct.	
10	03.6
	16.1
	19.9
	20.0
11	04.5
	08.1
	14.2
12	03.4
	04.3
13	09.7
	19.7
14	22.4
15	03.5
	18.5
17	07.6
	21.7
18	05.2
19	03.3
	03.3
	06.4
20	05.8
	13.7
24	10.6
	13.8
	14.4
	21.7
25	17.9
26	11.6
27	19.6
	20.9
29	21.2
	22.9
31	03.5
	07.0
SLC	
Oct.	
4	05.6
	06.3
	18.9
	22.0
	22.4
	22.7
	23.3
5	10.6
	13.3
	18.4
6	07.3
	18.2
	21.7
	22.1
	23.0
7	00.7
	00.7
	05.7
	11.4
	14.2
	21.7
	22.4
	22.7
	22.7
	23.3
8	07.4
	22.1
	22.2
	22.5
	22.6

Local and Minor Earthquakes

day	hour
SLC	
Oct.	
9	21.8
	22.1
10	04.5
	08.2
11	19.9
	22.1
	22.6
	22.7
	23.0
12	22.6
13	04.5
	14.2
	22.7
	22.9
14	00.4
	22.4
	22.6
	22.6
15	03.5
	19.1
	22.3
	22.7
16	22.0
	22.7
	22.7
17	22.8
	23.4
18	22.0
	23.1
	23.8
19	22.7
	23.6
20	22.1
	22.4
21	11.9
	22.4
22	18.2
	19.2
	22.2
	22.2
	22.3
	22.4
25	09.6
	14.1
	22.3
	22.6
24	21.1
	22.7
	23.8
25	00.6
	11.1
	21.9
	21.9
	22.4
SJ	
Oct.	
2	10.9
6	04.3
10	14.8
	15.0
	15.8
	18.6
	21.8
11	04.0
16	03.1

Local and Minor Earthquakes		Date and Station	Phase (GCT)	Date and Station	Phase (GCT)	Date and Station	Phase (GCT)
day	hour		h m s		h m s		h m s
SJ							
Oct.							
19	21.1						
	21.3						
21	02.9						
TUC							
Oct.							
1	10.6						
2	03.4						
3	12.8						
4	01.3						
	04.2						
6	07.3						
	08.6						
	10.4						
8	00.7						
	23.5						
9	06.7						
10	02.0						
	04.5						
	05.0						
	08.4						
	08.8						
	09.3						
	23.7						
11	01.9						
	03.0						
12	12.7						
13	05.5						
14	03.1						
15	00.9						
	02.3						
	02.8						
	03.5						
	06.3						
	11.7						
16	06.1						
17	01.8						
	06.4						
	22.4						
18	11.0						
19	04.2						
20	08.0						
21	09.4						
	23.6						
22	03.6						
	07.1						
	10.2						
23	02.9						
	04.6						
	13.2						
	14.1						
	17.3						
24	06.2						
	06.5						
25	19.0						
26	03.7						
	09.8						
	10.0						