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SEISMOLOGICAL BULLETIN

February, 1957

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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1957

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

**Balboa Heights, C. Z. (BH)
The Panama Canal Co.
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
*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 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Feb.	h m s	°	°	
1	07 52 13*	34 N.	116 W.	Southern California. Mag. 4¼.
1	11 40 33**			About 150 miles off coast of El Salvador. Felt in western El Salvador.
1	22 32 53*	48½ N.	155 E.	Kurile Islands.
2	11 45 35*	21½ S.	170 E.	Loyalty Islands region.
2	11 55 32*	37 N.	141½ E.	Near east coast of Honshu, Japan.
3	10 33 09**			Kamchatka foreshock.
3	17 01 47*	53½ N.	159 E.	Do.
3	17 24 50*	53½ N.	159 E.	Kamchatka. Mag. 6-1/2 - 6-3/4.
3	21 11 53*	53½ N.	159 E.	Kamchatka aftershock.
3	21 17 35*	53½ N.	159 E.	Do.
3	22 58 24*	53½ N.	159 E.	Do.
4	09 01 52*	10 N.	84 W.	Costa Rica.
4	10 28 27*	51 N.	160½ E.	Off south coast of Kamchatka.
5	04 02 05*	18 S.	176½ W.	Fiji Islands region. h about 300 km.
5	04 51 20*	25½ N.	45½ W.	Mid-Atlantic Ocean. Mag. 6.
5	15 57 27*	11 S.	166 E.	Santa Cruz Islands.
5	16 28 36*	18 S.	168 E.	New Hebrides Islands. h about 100 km.
5	17 20 24*	36½ N.	29 E.	Near south coast of Turkey.
6	12 41 16**			Galapagos Islands foreshock.
6	13 06 13*	2 N.	91 W.	Galapagos Islands region. Mag. 6.
6	13 07 30**			Galapagos Islands aftershock. Mag. 6.
6	20 34 55*	50 N.	105½ E.	Lake Baikal region, U.S.S.R.
7	09 02 23**			Cordoba Province, Argentina.
7	16 17 09*	52½ N.	175 W.	Andreanof Islands, Aleutian Islands. h about 60 km.
7	18 14 19*	50 N.	130 W.	Off coast of Vancouver Island, British Columbia.
9	01 53 05*	1½ S.	137½ E.	Near north coast of New Guinea.
9	05 59 04*	10½ N.	126½ E.	Near east coast of Samar, Philippine Islands. h about 60 km.
9	07 23 18*	7½ N.	83 W.	Off south coast of Panama.
9	08 07 15*	11½ N.	138½ E.	Caroline Islands.
9	13 29 18*	34 S.	180	Off coast of North Island, New Zealand. h about 150 km. Mag. 6¼.
9	16 38 10*	41½ N.	126 W.	Near coast of northern California. Mag. 5.4 (Berk).
9	17 38 22*	41 N.	127 W.	Northern California aftershock. Mag. 4-3/4 (Berk).
9	17 56 00*	19 S.	174 W.	Tonga Islands.
10	05 47 59*	35½ N.	35 W.	Azores Islands region. Mag. 5-3/4.
10	22 32 15*	10 N.	126 E.	Mindanao foreshock. Felt at Borongan, Catbalogan, Hinatuan, Mambajao, Surigao. Mag. 6-1/2 - 6-3/4.
10	22 50 52*	10½ N.	126½ E.	Mindanao, Philippine Islands. Felt at Borongan and Surigao. Mag. 6-3/4.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Feb.	h m s	°	°	
11	01 14 44*	10 N.	126 E.	Mindanao aftershock. Felt at Borongan, Hinatuan, Mambajao, and Surigao. Mag. 6½.
11	03 36 11*	10 N.	126½ E.	Mindanao aftershock.
11	03 44 33*	10 N.	126 E.	Mindanao aftershock. Felt at Surigao.
11	04 04 08*	10 N.	126 E.	Mindanao aftershock.
11	04 47 52**			Mindanao aftershock. Felt at Surigao.
11	06 47 37*	10 N.	126 E.	Do.
11	11 57 16*	10 N.	126½ E.	Mindanao aftershock.
11	12 20 09**			Do.
11	14 25 38*	10 N.	126 E.	Mindanao aftershock. Mag. 6¼.
11	15 42 57*	53 N.	1 W.	England. Felt in north central England. Slight property damage at Nottinghamshire.
11	18 56 50*	10 N.	126½ W.	Mindanao aftershock.
12	08 52 48*	48½ N.	155 E.	Northern Kurile Islands.
12	17 14 10**			Mindanao aftershock. Felt at Surigao.
12	21 06 56**			Mindanao aftershock.
13	00 29 48*	10 N.	126½ E.	Do.
13	12 37 14*	18 S.	169 E.	New Hebrides Islands. h about 200 km.
13	14 41 34*	48½ N.	157½ E.	Northern Kurile Islands.
14	10 16 13**			Mindanao aftershock.
14	23 01 19*	20 N.	120 E.	Near south coast of Formosa.
15	07 33 10*	14 S.	71 W.	Southeastern Peru. h about 100 km.
15	18 49 43*	13½ N.	141½ E.	Mariana Islands region.
16	14 12 30*	5½ S.	110 E.	Java Sea. h about 550 km.
16	22 49 28**			Near Islands, Aleutian Islands. h about 100 km.
17	04 36 20**			Near east coast of Kamchatka.
17	09 51 10*	13 N.	126 E.	Near east coast of Samar, Philippine Islands.
17	15 46 45*	16 N.	96½ W.	Oaxaca, Mexico. Felt in the Federal District and Oaxaca. h about 60 km. Mag. 5-3/4 - 6.
17	16 04 02*	4½ S.	125½ E.	Banda Sea.
18	00 18 34*	45 N.	152 E.	Kurile Islands. h about 60 km.
18	14 49 30*	25½ N.	45½ W.	Mid-Atlantic Ocean. Mag. 6¼ - 6½.
18	23 49 52*	11½ S.	78 W.	Near coast of Peru. Felt at Lima. h about 100 km. Mag. 6-1/2 - 6-3/4.
19	07 43 54*	36½ N.	22 E.	Near south coast of Greece.
19	19 58 55*	56 N.	164 E.	Near east coast of Kamchatka.
20	04 41 00*	36½ N.	9 E.	Northern Tunisia. Thirteen killed, many injured, and extensive property damage in Souk-el-Khemis area. Also felt in Algeria.
20	05 17 18*	16 S.	72 W.	Near coast of southern Peru. h about 100 km.
20	12 59 44*	53½ N.	160 E.	Near east coast of Kamchatka. h about 60 km.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Feb.	h m s	°	°	
20	20 10 57**			Near south coast of Mindanao, Philippine Islands.
20	21 58 23*	2 N.	97 E.	Near coast of Sumatra.
21	14 30 06*	53 N.	171 W.	Fox Islands, Aleutian Islands. h about 100 km. Mag. 6-3/4.
21	19 36 05*	31 S.	178 W.	Kermadec Islands.
22	04 58 00*	43 N.	76½ E.	Southeastern Kazakh, S.S.R.
22	17 12 49*	49 N.	156 E.	Kurile Islands foreshock.
23	03 34 46**			Do.
23	04 57 46*	49 N.	156 E.	Northern Kurile Islands.
23	05 01 27**			Kurile Islands aftershock.
23	13 16 51*	49 N.	129 W.	Off coast of Vancouver Island, British Columbia.
23	18 54 37*	12 N.	141 E.	Caroline Islands region.
23	20 26 12*	24 N.	122 E.	Formosa. Eleven killed, many injured, and extensive property damage at Hualien and Taipei. Mag. 7 - 7¼.
23	22 13 28**			Albania.
24	17 06 02**			Mindanao aftershock.
24	21 47 26*	26 N.	121½ E.	Formosa aftershock.
25	02 04 08*	8½ S.	118 E.	Sumbawa Island.
25	13 21 17*	6 S.	130 E.	Banda Sea.
26	02 54 43*	9½ N.	126 E.	Near north coast of Mindanao, Philippine Islands. h about 100 km.
26	06 10 22*	52½ N.	161 E.	Near east coast of Kamchatka.
27	15 01 22*	24 N.	121½ E.	Formosa aftershock.
27	16 07 58*	11½ S.	167 E.	Santa Cruz Islands.
28	11 01 45*	51½ N.	180	Andreanof Islands, Aleutian Islands.
28	23 31 25**			Western Indian Ocean. About 800 miles off coast of Madagascar.

Date and Station		Phase (GCT) h m s
Feb. 1		
COL	eP	02 58 21
Feb. 1		
BC	iP	07 52 52
	e(S)	53 12
	eL	53 56
EUR	iP	07 53 39
	iS	54 51
	iL	54 57
HH	e(P)	07 55 47
	e	55 50
SLC	eP	07 54 12
	e	54 42
	eS	56 00
	eL	56 20
TUC	eP	07 53 27
	e	53 32
	e	53 36
	eS	54 12
	eL	54 44
Feb. 1		
BC	iP	11 47 05
COLU	eP	11 45 45
EUR	eP	11 47 31
TUC	eP	11 46 21
Feb. 1		
COL	eP	12 45 31
EUR	eP	12 44 55
Feb. 1		
COL	eP	13 34 18
Feb. 1		
COL	iP	15 22 02
Feb. 1		
EUR	eP	18 18 03
Feb. 1		
EUR	eP	19 58 07
Feb. 1		
EUR	eP	20 20 01
Feb. 1		
EUR	eP	20 40 04
Feb. 1		
COL	iP	22 04 27
Feb. 1		
BC	iP	22 43 35
	i	43 52
BOZ	iP	22 43 07
	i	43 19

Date and Station		Phase (GCT) h m s
COL	iP	22 39 42
	i	39 53
EUR	iP	22 43 14
	i	43 28
HH	iP	22 42 43
	i	42 55
RC	iP	22 43 41
TUC	eP	22 44 06
	e	44 20
Feb. 1		
EUR	eP	23 35 43
Feb. 2		
BC	iP	01 20 58
COL	iP	01 17 02
EUR	iP	01 20 37
	i	20 52
HH	eP	01 20 05
RC	iP	01 21 03
SLC	eP	01 21 08
TUC	eP	01 21 30
Feb. 2		
COL	eP	02 01 49
Feb. 2		
EUR	eP	02 22 30
TUC	eP	02 21 48
Feb. 2		
COL	iP	08 42 15
Feb. 2		
COL	eP	08 58 11
	e	59 46
Feb. 2		
COL	iP	10 44 14
Feb. 2		
COL	eP	11 36 32
EUR	eP	11 36 27
HH	iP	11 36 54
RC	eP	11 36 11
TUC	eP	11 35 40
Feb. 2		
COL	iP	11 49 26
Feb. 2		
BC	eP	11 58 45
	i	59 06

Date and Station		Phase (GCT) h m s
BC	i	11 59 18
	i	59 40
	e	12 01 25
COL	iP	11 58 45
	i	59 06
	i	59 23
	i	59 37
EUR	eP	11 58 48
	i	59 08
HH	eP	11 59 55
TUC	eP	11 58 58
	eL	12 40 28
Feb. 2		
BUT	eP	12 07 11
	eL	32 12
COL	iP	12 04 22
EUR	iP	12 07 21
	i	07 34
HH	eP	12 06 58
	e	07 11
RC	eP	12 07 45
	eS	16 36
TUC	eP	12 17 10
Feb. 2		
COL	iP	13 30 40
Feb. 2		
EUR	eP	18 00 41
Feb. 2		
COL	eP	22 40 03
EUR	eP	22 40 50
Feb. 3		
EUR	eP	05 58 37
Feb. 3		
BC	iP	07 58 56
	i	59 03
EUR	eP	07 58 53
HH	e(P)	07 58 27
	e	58 53
Feb. 3		
EUR	iP	07 59 20
Feb. 3		
EUR	eP	08 24 11
Feb. 3		
BC	eP	10 43 20
COL	iP	10 39 08
	i	39 18
	i	40 10

Date and Station		Phase (GCT) h m s
EUR	iP	10 42 58
HH	eP	10 42 23
RC	eP	10 43 20
SLC	eP	10 43 28
TUC	eP	10 43 57
Feb. 3		
EUR	eP	13 05 07
Feb. 3		
EUR	eP	13 20 38
Feb. 3		
BC	iP	14 15 18
	iS	15 38
	iL	15 40
Feb. 3		
EUR	eP	15 19 01
Feb. 3		
EUR	eP	15 50 03
HH	eP	15 49 04
Feb. 3		
EUR	eP	15 55 34
Feb. 3		
EUR	eP	15 58 08
Feb. 3		
BC	iP	17 11 55
	i	12 10
BUT	eP	17 11 15
COL	iP	17 07 43
	eS	12 28
	e	13 31
	eL	14 26
EUR	iP	17 11 33
HH	eP	17 10 56
RC	iP	17 11 57
SLC	eP	17 11 43
SIT	iP	17 08 53
TUC	eP	17 12 29
Feb. 3		
BC	iP	17 34 58
	i	35 07
	eS	43 20
	iP'P'	18 04 30
BOZ	iP	17 34 24
	i	34 39
	e	35 44
	eS	42 05

Date and Station		Phase (GCT)
		h m s
BOZ	eSS	17 46 13
	eL	52 09
BUT	eP	17 34 16
	i	39 26
	eS	41 51
	eSS	45 47
	eL	48 39
COL	iP	17 30 45
	iS	35 31
	iL	36 48
EUR	iP	17 34 36
	eP'P'	18 04 14
HH	eP	17 33 59
	ePcP	35 14
	eP'P'	18 04 19
PHIL	eP	17 36 37
	eS	46 13
	eSS	51 10
	eL	55 23
RC	iP	17 34 59
	ePP	37 29
	ePPP	38 52
	eS	43 15
	eL	50 18
	eP'P'	18 04 24
SLC	iP	17 34 46
	i	36 03
	eS	42 49
	eL	50 07
	eP'P'	18 04 35
SIT	iP	17 31 55
	i	32 07
	i	32 37
	ePP	33 18
	eS	37 26
	iS	37 27
	eL	40 07
TUC	iP	17 35 31
	e	36 45
	eS	44 12
	eL	51 18
	eP'P'	18 04 17
UK	iP	17 34 11
Feb. 3		
COL	iP	17 36 50
Feb. 3		
BC	eP	18 07 02
EUR	iP	18 06 39
COL	iP	18 02 49
RC	iP	18 07 03
SLC	eP	18 07 12
TUC	eP	18 07 35

Date and Station		Phase (GCT)
		h m s
Feb. 3		
EUR	eP	18 37 26
Feb. 3		
COL	iP	19 30 49
Feb. 3		
EUR	eP	19 34 41
Feb. 3		
COL	iP	19 41 44
EUR	iP	19 44 33
Feb. 3		
BC	iP	21 22 01
BOZ	iP	21 21 27
BUT	eP	21 21 19
COL	iP	21 17 49
EUR	iP	21 21 39
HH	eP	21 21 02
	e	22 16
RC	iP	21 22 02
SLC	iP	21 22 10
SIT	iP	21 19 01
	eL	24 43
TUC	iP	21 22 35
Feb. 3		
BC	iP	21 27 44
BUT	eP	21 27 02
COL	iP	21 23 32
EUR	iP	21 27 22
HH	eP	21 26 43
	i	27 58
RC	iP	21 27 46
SLC	eP	21 27 53
TUC	iP	21 28 18
Feb. 3		
EUR	eP	22 05 43
Feb. 3		
BC	iP	23 08 32
	e	09 15
	i(PP)	11 05
BOZ	iP	23 07 58
BUT	eP	23 07 49
COL	iP	23 04 19

Date and Station		Phase (GCT)
		h m s
COL	e(PP)	23 05 34
	eS	09 10
	eL	09 50
EUR	iP	23 08 09
	i	08 31
HH	iP	23 07 32
	ePcP	08 48
RC	iP	23 08 33
	eP'P'	38 00
SLC	eP	23 08 18
	i	08 40
	eP'P'	38 08
SIT	iP	23 05 31
	ePP	07 04
TUC	iP	23 09 06
UK	eP	23 07 42
Feb. 3		
COL	iP	23 21 16
EUR	iP	23 25 07
RC	eP	23 25 30
TUC	eP	23 26 05
	e	37 53
Feb. 3		
COL	eP	23 29 39
EUR	eP	23 33 29
RC	eP	23 33 53
Feb. 3		
EUR	eP	23 37 49
Feb. 3		
COL	eP	23 43 43
EUR	eP	23 47 33
Feb. 4		
COL	iP	04 09 04
EUR	eP	04 12 37
Feb. 4		
COL	iP	04 40 08
Feb. 4		
COL	iP	05 04 18
Feb. 4		
EUR	eP	06 06 09
Feb. 4		
EUR	iP	06 13 44
Feb. 4		
BH	iP	09 02 56
	iS	03 44

Date and Station		Phase (GCT)
		h m s
BC	eP	09 09 13
	i	09 17
BUT	eP	09 09 53
	e	11 56
COL	eP	09 13 02
COLU	eP	09 07 10
EUR	iP	09 09 35
	i	09 54
HH	iP	09 10 14
RC	eP	09 09 10
SLC	eP	09 09 43
SJ	iP	09 06 17
	ipP	06 37
	eS	09 51
	iS	10 04
	i	10 24
	eL	11 40
TUC	eP	09 08 31
	e	09 50
	eL	17 14
Feb. 4		
EUR	eP	10 17 08
Feb. 4		
BC	iP	10 38 36
BUT	eP	10 37 59
COL	iP	10 34 36
	eL	41 40
COLU	eP	10 40 35
EUR	iP	10 38 15
HH	eP	10 37 42
RC	iP	10 38 42
SLC	eP	10 38 26
TUC	iP	10 39 10
UK	eP	10 37 47
Feb. 4		
BH	iP	14 25 00
	iS	26 00
Feb. 4		
EUR	eP	16 18 45
Feb. 4		
BH	iP	16 39 03
	iS	39 54
EUR	eP	16 46 21

Date and Station		Phase	(GCT) h m s
HH		eP	16 46 56
RC		eP	16 45 19
SJ		iP	16 42 39
Feb. 4			
COL		iP	17 51 50
EUR		iP	17 55 29
		i	55 44
Feb. 4			
COL		iP	19 01 13
Feb. 4			
EUR		iP	19 32 38
		i	32 46
RC		eP	19 33 18
Feb. 4			
COL		iP	20 20 56
EUR		eP	20 22 07
Feb. 4			
EUR		eP	20 24 29
Feb. 4			
EUR		eP	21 37 45
Feb. 4			
COL		eP	21 57 15
Feb. 4			
COL		iP	22 07(45)
Feb. 5			
BC		iP	04 13 42
		ipP	14 41
COL		iP	04 14 13
		ipP	15 16
EUR		iP	04 13 47
		iPcP	14 13
		ipP	14 47
		ePP	16 57
HH		eP	04 14 17
		ipP	15 19
TUC		iP	04 13 47
		e	14 13
		epP	14 45
Feb. 5			
EUR		eP	04 38 38
HH		eP	04 41 33
TUC		eP	04 37 27
Feb. 5			
BC		iP	05 01 28
		i	01 34
		e(S)	09 48

Date and Station		Phase	(GCT) h m s
BUT		eP	05 01(10)
COL		iP	05 02 47
		i	02 54
COLU		iP	04 57 52
		i	58 08
		iPP	58 48
		iPPP	59 14
		iS	05 03 09
		eL	05 34
EUR		iP	05 01 30
		iPcP	02 19
		i	02 24
		ePP	03 52
		eP'P'	31 08
HH		iP	05 01 11
PHIL		eP	04 57 25
		eS	05 02 18
		eL	03 24
RC		iP	05 00 23
		ePP	02 17
SLC		eP	05 01 06
SJ		iP	04 56 04
		iS	05 00 06
		eL	01 20
TUC		iP	05 01 10
		eS	09 18
UK		iP	05 02 08
Feb. 5			
BC		iP	05 07 02
		i(S)	07 16
		iL	07 32
Feb. 5			
EUR		eP	05 38 44
Feb. 5			
SLC		eP	05 58 15
Feb. 5			
BC		iP	08 03 20
BUT		eP	08 03(57)
EUR		iP	08 03 38
HH		iP	08 04 06
		e	04 54
RC		iP	08 03 22
TUC		eP	08 02 49
Feb. 5			
EUR		eP	12 24 06
Feb. 5			
BUT		eP	16 10(40)

Date and Station		Phase	(GCT) h m s
COL		iP	16 09 54
		ipP	10 19
		i	10 55
EUR		iP	16 10 19
		ipP	10 45
		i	13 45
HH		iP	16 10 35
RC		e(P)	16 11 07
SLC		eP	16 10 35
TUC		iP	16 10 30
		eL	38 45
UK		iP	16 09 51
Feb. 5			
BC		iP	16 41 32
		ipP	42 01
COL		iP	16 41 26
EUR		iP	16 41 34
		ipP	42 04
TUC		iP	16 41 40
		epP	42 11
UK		eP	16 41 10
Feb. 5			
COL		iP	17 32 29
		i	32 45
EUR		eP	17 34 02
HH		eP	17 33 22
Feb. 5			
COL		eP	19 49 17
Feb. 6			
EUR		iP	03 43 48
		i	44 04
Feb. 6			
EUR		eP	04 33 59
Feb. 6			
EUR		e(P)	04 51 07
Feb. 6			
EUR		eP	05 24 16
Feb. 6			
COL		eP	05 46 20
EUR		eP	05 45 55
TUC		e(P)	05 45 54
Feb. 6			
TUC		eP	07 36 27
Feb. 6			
EUR		eP	07 42 02

Date and Station		Phase	(GCT) h m s
Feb. 6			
EUR		eP	07 51 32
Feb. 6			
EUR		iP	07 58 14
Feb. 6			
EUR		eP	09 05 56
Feb. 6			
BC		eP	12 33 04
EUR		eP	12 32 58
RC		e(P)	12 30 38
Feb. 6			
BH		iS	12 46 58
		iL	48 14
BC		e(P)	12 48 43
		e	48 59
COL		eP	12 53 23
EUR		iP	12 49 26
HH		eP	12 50 15
RC		eP	12 49 27
TUC		eP	12 48 17
Feb. 6			
BH		iP	13 09 20
		iS	11 50
BC		eP	13 13 54
BUT		eP	13 14 42
		i	15 15
		eL	23 30
COLU		eP	13 12 52
EUR		iP	13 14 21
		i	14 38
HH		eP	13 15 11
RC		eP	13 14 17
SLC		eP	13 14 15
TUC		eP	13 13 11
		eL	21 12
UK		eP	13 14 54
Feb. 6			
BC		eP	13 15 11
EUR		iP	13 15 39
HH		iP	13 16 33
PHIL		e(P)	13 15 39
		eL	23 35

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Date and Station		Phase (GCT)
		h m s
RC	eP	13 15 37
TUC	iP	13 14 34
Feb. 6		
BC	iP	13 16 20
COLU	eP	13 15 17
EUR	iP	13 16 55
HH	eP	13 17 37
PHIL	e(P)	13 17 05
RC	eP	13 16 44
TUC	eP	13 15 37
Feb. 6		
COL	e(P)	14 21 56
	iP	22 00
EUR	iP	14 25 24
Feb. 6		
HH	iP	15 07 26
	iS	07 39
	iL	07 41
Feb. 6		
BH	eP	15 54 06
EUR	eP	15 56 24
Feb. 6		
EUR	eP	16 06 47
Feb. 6		
EUR	eP	16 45 46
Feb. 6		
EUR	eP	16 55 37
Feb. 6		
EUR	eP	17 55 02
Feb. 6		
EUR	eP	17 59 28
Feb. 6		
HH	eP	18 57 18
Feb. 6		
COL	eP	20 24 47
	i	25 47
Feb. 6		
BC	eP	20 47 45
	iP	47 51
BOZ	iP	20 47 06
	i	47 12
BUT	eP	20 47 01
	i	47 08
	e	49 14
	eS	57 05
	eL	21 17 12

Date and Station		Phase (GCT)
		h m s
COL	iP	20 44 09
	eS	51 36
	e(ScS)	53 45
	eL	55 03
EUR	iP	20 47 27
	i	47 34
	i	47 57
HH	iP	20 46 46
	i	46 53
RC	eP	20 47 23
TUC	eP	20 48 15
	eL	21 23 45
Feb. 6		
EUR	iP	23 49 20
Feb. 7		
EUR	eP	01 53 07
HH	iP	01 52 56
Feb. 7		
EUR	iP	01 56 18
TUC	eP	01 56 44
Feb. 7		
EUR	eP	03 28 19
HH	eP	03 29 03
TUC	e(P)	03 27 33
Feb. 7		
COL	eP	04 47 16
EUR	eP	04 50 50
Feb. 7		
SLC	eP	08 14 57
Feb. 7		
BC	iP	09 14 44
	e	15 10
BOZ	iP	09 15 18
	i	15 30
BUT	iP	09 15 12
	i	15 34
	i	15 46
COL	e(P')	09 21 35
COLU	iP	09 13 20
EUR	iP	09 15 04
	ePP	18 00
	eP'P'	41 56
HH	iP	09 15 34
	e	15 46
RC	iP	09 14 54

Date and Station		Phase (GCT)
		h m s
SJ	iP	09 11 22
TUC	iP	09 14 15
	i	14 27
Feb. 7		
COL	eP	13 11 40
Feb. 7		
SLC	eP	16 18 03
Feb. 7		
BC	e(P)	16 25 17
	ipP	25 38
BOZ	eP	16 24 49
COL	iP	16 21 27
	i	21 36
	i	21 46
	e	23 44
	eS	25 19
	eL	26 06
COLU	eP	16 27 50
EUR	eP	16 24 54
	ipP	25 17
HH	iP	16 24 23
	eS	30 22
RC	iP	16 25 34
TUC	eP	16 26 07
	eL	46 24
Feb. 7		
EUR	eP	16 31 54
Feb. 7		
EUR	eP	16 51 00
HH	eP	16 50 30
Feb. 7		
EUR	eP	18 03 57
Feb. 7		
BC	e(P)	18 18 28
	i	18 52
BOZ	eP	18 17 30
	i	17 41
BUT	eP	18 17 19
	eL	20 37
COL	e(P)	18 18 25
EUR	e(P)	18 17 40
	iP	17 46
HH	eP	18 16 52
	eL	19 36
RC	iP	18 18 45
TUC	iP	18 19 24

Date and Station		Phase (GCT)
		h m s
TUC	eL	18 28 06
Feb. 7		
COL	eP	18 46 08
EUR	eP	18 48 45
	e	49 39
HH	eP	18 49 05
	e	49 29
Feb. 7		
EUR	eP	20 42 49
Feb. 7		
EUR	eP	20 46 27
Feb. 7		
COL	iP	21 50 56
EUR	iP	21 53 24
HH	iP	21 53 08
	e	54 51
RC	iP	21 53 51
Feb. 8		
BH	iP	00 21 46
	iS	22 29
EUR	eP	00 28 52
HH	eP	00 29 26
RC	eP	00 28 23
Feb. 8		
COL	eP	05 50 51
HH	iP	05 53 03
Feb. 8		
COL	iP	07 24 43
Feb. 8		
COL	eP	13 45 02
EUR	eP	13 48 35
	i	49 09
Feb. 8		
COL	eP'	15 45 15
EUR	eP'	15 46 38
RC	eP'	15 45 08
	e	50 17
SLC	e	15 50 06
Feb. 8		
COL	iP	20 49 51
Feb. 9		
RC	eP	00 50 34

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Date and Station		Phase (GCT) h m s
Feb. 9		
HH	eP	01 52 24
Feb. 9		
COL	iP	02 05 42
	e(PP)	09 33
EUR	iP	02 07 13
	ePP	11 20
HH	eP	02 07 00
SJ	eP'	02 13 12
TUC	eP!	02 12 17
	e	13 30
	eL	36 26
Feb. 9		
EUR	eP	03 48 17
Feb. 9		
COL	iP	06 11 03
	e	14 46
EUR	eP	06 13 08
HH	eP	06 12 53
SJ	iP'	06 18 49
TUC	e(P)	06 14 48
	ePP	18 12
Feb. 9		
EUR	eP	06 17 41
Feb. 9		
EUR	eP	06 29 11
TUC	eP	06 28 40
Feb. 9		
COL	iP	07 03 05
	i	03 49
EUR	iP	07 06 40
Feb. 9		
EUR	eP	07 25 44
Feb. 9		
BH	iP	07 24 19
	iS	25 10
BC	eP	07 31 07
BOZ	iP	07 31 45
	i	32 19
BUT	eP	07 31 52
COL	iP	07 34 50
COLU	iP	07 29 08
EUR	iP	07 31 31
HH	eP	07 32 10
RC	iP	07 31 07
SJ	iP	07 27 51
	i	28 21
TUC	iP	07 30 27
	e	31 56
	eL	43 50
Feb. 9		
COL	iP	08 18 45
EUR	iP	08 20 39
HH	iP	08 20 32
Feb. 9		
EUR	iP	12 18 39
RC	eP	12 19 18
TUC	eP	12 19 40
Feb. 9		
HH	eP	12 20 21
Feb. 9		
BC	eP	13 42 18
	i	42 53
	ipP	43 08
COL	iP	13 42 58
EUR	eP	13 42 23
	ipP	42 58
	i	43 13
	eS	52 54
	iPS	53 34
	ePKKP	59 16
	ipPKKP	14 00 06
HH	e(P')	13 46 52
	i	53 25
RC	eP	13 43 13
	ePP	47 31
TUC	eP	13 42 19
	epP	42 54
	eS	53 24
	iPKKP	59 33
UK	eP	13 42 07
	epP	42 44
Feb. 9		
RC	eP	13 53 38
SLC	eP	13 53 10
Feb. 9		
RC	e(P)	13 58 45
Feb. 9		
EUR	eP	16 22 44
Feb. 9		
BC	iP	16 40 42
	i	41 30
BC	eL	16 43 21
BOZ	iP	16 40 59
	i	41 23
	eS	43 04
	eL	43 40
BUT	iP	16 40 46
	i	41 27
	iS	42 45
	iL	43 01
CHI	eP	16 44 08
	eS	48 48
	eL	52 12
COL	iP	16 43 47
	i	43 58
	i	44 19
	i	44 51
	eS	48 12
	eL	51 06
COLU	iP	16 45 12
	iPP	46 35
	eS	50 47
	iL	56 47
EUR	iP	16 40 06
HH	iP	16 40 48
	eS	42 31
	eL	43 37
PHIL	e(P)	16 45 17
	iS	51 27
	eL	55 14
RC	iP	16 42 05
	eS	45 05
	eL	46 17
SLC	eP	16 40 47
	i	41 19
	eS	42 58
	eL	43 22
SJ	eP	16 47 48
SIT	iP	16 42 06
	e	42 45
	eS	45 26
	eL	46 08
TUC	iP	16 41 47
	e(S)	44 58
	iL	45 07
UK	iP	16 38 55
	e	39 06
	e	39 17
	iS	39 32
	iL	39 37
WASH	iP	16 45 24
	e	46 12
	i	48 01
	i(S)	51 18
Feb. 9		
BC	iP	17 41 01
BOZ	iP	17 41 18
	e	41 32
	eL	44 40
BUT	iP	17 41 06
	eS	43 08
	eL	43 27
COL	iP	17 44 05
EUR	iP	17 40 25
HH	eP	17 41 08
	eL	43 16
RC	iP	17 42 24
	e(S)	45 04
	eL	47 33
SLC	eP	17 41 05
	eS	43 15
	eL	43 33
TUC	iP	17 42 06
	eS	45 24
	eL	46 26
UK	iP	17 39 14
	eS	39 54
	eL	40 02
Feb. 9		
BC	iP	18 08 04
	i	08 11
BUT	eP	18 08 42
COL	iP	18 08 44
	i	08 53
EUR	iP	18 09 11
HH	eP	18 08 43
RC	eP	18 09 12
SLC	eP	18 08 29
TUC	eP	18 08 10
	i	08 15
UK	eP	18 07 46
Feb. 9		
COL	iP	18 24 53
EUR	iP	18 28 39
Feb. 9		
COL	eP	20 45 55
Feb. 9		
COL	eP	21 17 48
	epP	19 03

Date and Station		Phase (GCT)
		h m s
Feb. 9		
COL	eP	22 36 29
Feb. 10		
BC	eP	05 58 32
BOZ	eP	05 57 47
BUT	eP	05 57 54
COL	iP	05 58 57
	iPoP	59 06
	i	59 30
COLU	eP.	05 55 20
	ePoP	57 35
EUR	iP	05 58 26
	iPP	06 00 52
HH	eP	05 57 53
RC	eP	05 57 12
	e	58 32
	eL	06 15 08
SLC	eP	05 58 02
SJ	e(P)	05 54 35
TUC	eP	05 58 22
	eL	06 19 28
Feb. 10		
BC	eP	06 27 34
EUR	e(P)	06 27 28
HH	e(P)	06 27 52
Feb. 10		
COL	eP	06 57 04
	iP	57 25
	eS	58 27
	i	58 39
	iS	58 46
	iL	58 59
HH	eP	06 59 41
Feb. 10		
RC	eP	07 30 58
Feb. 10		
EUR	eP	15 59 44
Feb. 10		
EUR	eP	16 50 29
Feb. 10		
HH	e(P)	22 28 22
Feb. 10		
BH	iP'	22 52 02
BC	eP	22 46 34
	iPP	50 59
	ePKKP	23 02 20

Date and Station		Phase (GCT)
		h m s
BOZ	eP	22 46 25
	ePP	50 12
BUT	eP	22 46 23
COL	iP	22 44 22
	iS	54 11
	i	56 38
	eSS	58 58
	eL	23 05 01
COLU	iP'	22 51 29
	i	51 43
	ePP	53 45
	e	54 30
EUR	eP	22 46 25
	e	50 02
	iPP	50 39
	iPKKP	23 02 29
HONO	iP	22 43 51
	eS	53 27
	iScS	54 07
	i	59 10
	eL	23 06 20
HH	eP	22 46 13
	iPP	50 12
	eSKS	56 47
	ePKKP	23 02 26
RC	e(P)	22 47 12
	eP'	50 16
	ePKKP	23 02 05
SLC	e	22 49 49
	ePP	50 55
	iPKKP	23 02 21
SJ	iP'	22 52 05
TUC	e(P')	22 51 06
	ePP	51 30
	ePKKP	23 01 53
Feb. 10		
BH	iP'	23 10 39
BC	ePP	23 09 56
BOZ	ePP	23 09 14
BUT	eP	23 04 52
COL	iP	23 03 01D
	iS	12 53
	e	20 35
	eL	23 04
COLU	eP'	23 10 06
EUR	iP	23 05 02C
	iPP	09 20
	iPKKP	21 06
	iSKKP	24 51
PHIL	eP'	23 10 06
	e	15 07

Date and Station		Phase (GCT)
		h m s
PHIL	eS	23 20 10
	eL	44 16
HONO	iP	23 02 31C
	eS	11 57
	iScS	12 38
	eL	20 10
T_S=10 sec. A=2 mm.		
T_L=20 sec. A=1.5mm.		
T_L=15 sec. $A_{max.}$=3.0mm.		
HH	eP	23 04 54D
	eSKS	15 22
	ePKKP	21 02
RC	e(P)	23 05 11
	ePP	09 43
	ePKKP	20 34
SLC	ePP	23 09 14
	iPKKP	20 59
SJ	iP'	23 10 44
TUC	iPP	23 20 37
Feb. 10		
EUR	eP	23 18 54
Feb. 10		
COL	eP	23 41 19
Feb. 11		
BH	iP'	01 34 34
BC	ePP	01 33 15
BUT	eP	01 28 49
COL	iP	01 26 52
	iS	36 44
	iSS	41 38
	i	43 23
	eL	47 58
COLU	eP'	01 33 56
EUR	eP	01 28 55
	ePP	32 19
	ePKKP	44 43
HONO	eP	01 26 21
	e	35 46
	eScS	36 30
	eL	48 24
T_S=10 sec. A=2.5mm.		
T_L=20 sec. A=2.0mm		
T_L=24 sec. $A_{max.}$=2.0mm.		
HH	eP	01 28 40
	ePP	32 42
	iSKS	39 14
	ePKKP	44 52
PHIL	eP'	01 34 22
	e	30 06
	eL	02 16 12

Date and Station		Phase (GCT)
		h m s
RC	eP'	01 32 59
	ePP	34 00
	ePKKP	44 34
SLC	eP	01 29 05
	ePP	33 23
	e(PKKP)	45 21
SJ	eP'	01 34 35
TUC	ePP	01 34 04
	ePKKP	44 17
Feb. 11		
EUR	eP	02 37 19
Feb. 11		
EUR	eP	02 47 51
Feb. 11		
COL	iP	03 48 18
EUR	ePP	03 54 10
RC	ePP	03 55 04
Feb. 11		
COL	iP	03 56 40
EUR	eP	03 58 53
	ePP	04 03 09
SJ	eP'	04 04 27
	iP	04 34
Feb. 11		
EUR	eP	04 13 47
Feb. 11		
COL	iP	04 16 16
	e	17 20
EUR	ePP	04 22 54
Feb. 11		
EUR	eP	04 34 23
Feb. 11		
COL	e(P)	05 00 00
EUR	e(PP)	05 06 45
RC	e(PP)	05 07 38
Feb. 11		
EUR	eP	05 08 15
HH	eP	05 08 08
Feb. 11		
COL	eP	06 59 45
SJ	eP'	07 07 32
Feb. 11		
COL	iP	07 40 38
	epP	42 06

Date and Station		Phase	(GCT) h m s
Feb. 11			
EUR	eP		07 52 49
Feb. 11			
COL	eP		11 17 36
Feb. 11			
HH	eP		11 44 36
Feb. 11			
HH	eP		12 02 29
Feb. 11			
COL	eP		12 09 24
Feb. 11			
EUR	eP		12 26 31
Feb. 11			
COL	e(P)		12 32 18
	e		32 47
Feb. 11			
EUR	eP		13 10 20
Feb. 11			
COL	eP		14 03 22
EUR	eP		14 05 51
Feb. 11			
COL	iP		14 37 46
EUR	eP		14 39 49
	ePKKP		55 56
HH	eP		14 39 35
RC	ePP		14 34 33
SJ	iP'		14 45 32
TUC	ePP		14 44 57
Feb. 11			
COL	eP		15 53 05
HH	eP		15 53 34
Feb. 11			
BC	eP		16 33 38
	i		33 54
COL	iP		16 29 44
	i(S)		35 06
EUR	eP		16 32 14
	i		32 30
HH	eP		16 32 43
Feb. 11			
EUR	eP		17 06 18
	e		08 59
HH	eP		17 06 18
	eS		07 18
	eL		07 33
	iL		07 50

Date and Station		Phase	(GCT) h m s
Feb. 11			
COL	eP		19 09 00
EUR	ePP		19 15 15
SJ	iP'		19 16 44
TUC	ePP		19 16 05
Feb. 11			
COL	eP		19 35 32
	i		35 51
Feb. 11			
COL	iP		19 52 43
Feb. 11			
HH	e(P)		20 04 14
SJ	iP		20 00 29
	i		01 25
Feb. 11			
EUR	eP		22 01 31
HH	eP		22 01 14
Feb. 11			
COL	iP		23 47 05
Feb. 12			
COL	iP		01 23 40
EUR	iP		01 23 05
HH	iP		01 24 22
TUC	iP		01 24 16
Feb. 12			
EUR	eP		01 45 04
Feb. 12			
COL	iP		05 21 28
	i		21 55
EUR	iP		05 21 05
	ipP		21 29
Feb. 12			
COL	eP		07 16 01
EUR	eP		07 15 33
TUC	eP		07 14 22
Feb. 12			
BC	iP		09 03 28
	i		03 50
BOZ	iP		09 03 02
	i		03 24
BUT	eP		09 02 53
COL	iP		08 59 36
	iS		09 05 02
	iPcS		05 20
	eL		07 10

Date and Station		Phase	(GCT) h m s
EUR	iP		09 03 07
	i		03 20
	i(PP)		06 08
HH	iP		09 02 37
RC	iP		09 03 35
SLC	eP		09 03 19
TUC	eP		09 04 00
	e		04 11
Feb. 12			
EUR	eP		09 22 13
Feb. 12			
BC	iP		12 30 01
	i		30 16
COL	eP		12 29 46
EUR	iP		12 29 41
	ipP		29 56
HH	eP		12 29 07
	e		30 11
RC	eP		12 30 06
	e		30 21
TUC	eP		12 30 34
	i		30 49
Feb. 12			
COL	iP		16 07 53
	e		08 20
Feb. 12			
COL	eP		17 26 21
EUR	ePP		17 32 47
SJ	eP'		17 34 09
	i		34 14
Feb. 12			
HH	eP		17 50 03
Feb. 12			
BOZ	iP		18 07 28
HH	eP		18 07 58
	i		08 01
	eS		08 32
	iL		08 37
RC	eP		18 09 16
	e		10 21
Feb. 12			
SJ	iP		18 30 40
Feb. 12			
HH	e(P)		19 42 54
	e		46 44
Feb. 12			
COL	iP		20 30 19

Date and Station		Phase	(GCT) h m s
Feb. 12			
BC	iP		20 52 46
	i		53 34
Feb. 12			
COL	eP		21 19 04
Feb. 12			
HH	eP		22 43 39
Feb. 12			
BC	iP		23 13 59
	iS		14 15
	iL		14 30
EUR	eP		23 14 33
	i		14 51
	eS		15 31
	eL		15 40
Feb. 12			
EUR	iP		23 38 32
HH	eP		23 38 00
Feb. 13			
BH	iP'		00 49 39
BUT	eP		00 43 58
COL	iP		00 41 56
	eS		51 50
	e		55 04
	eSSS		01 00 13
	eL		03 10
EUR	eP		00 44 02
HONO	iP		00 41 23
	i		41 37
HH	eP		00 43 45
RC	eP'		00 48 23
	ePKKP		59 39
SLC	eP		00 48 05
SJ	iP'		00 49 42
	i		50 01
TUC	ePP		00 49 02
	eL		01 20 16
Feb. 13			
EUR	eP		01 00 05
Feb. 13			
COL	iP		01 28 43
Feb. 13			
EUR	eP		05 08 14
Feb. 13			
EUR	eP		07 13 50
TUC	eP		07 12 36

Date and Station		Phase (GCT)
		h m s
Feb. 13		
COL	iP	07 34 55
EUR	eP	07 38 30
Feb. 13		
COL	eP	08 48 45
EUR	eP	08 51 06
HH	eP	08 49 52
RC	eP	08 50 16
Feb. 13		
BC	iP	12 49 51
	ipP	50 52
BOZ	eP	12 50 20
COL	iP	12 49 46
	ipP	50 46
EUR	iP	12 49 53
	iPP	53 34
HH	iP	12 50 15
	ePP	54 08
RC	eP	12 50 41
SLC	eP	12 50 10
TUC	iP	12 49 59
UK	eP	12 49 30
Feb. 13		
COL	eP	12 56 33
Feb. 13		
COL	eP	13 18 28
Feb. 13		
BC	eP	14 52 01
BOZ	iP	14 51 35
BUT	eP	14 51 27
COL	iP	14 48 10
	i	48 46
EUR	iP	14 51 42
HH	iP	14 51 12
RC	iP	14 52 10
SLC	eP	14 51 54
Feb. 13		
BH	iP	16 43 36
	iS	44 08
EUR	eP	16 51 24
Feb. 13		
HH	eP	17 18 20

Date and Station		Phase (GCT)
		h m s
HH	e	17 29 28
Feb. 13		
EUR	eP	18 41 25
SLC	eP	18 40 40
Feb. 13		
COL	eP	20 32 30
EUR	eP	20 33 34
Feb. 13		
EUR	eP	21 05 29
Feb. 13		
COL	iP	22 18 58
Feb. 14		
EUR	eP	01 35 02
Feb. 14		
HH	e(P)	01 45 28
	e	48 21
Feb. 14		
EUR	eP	02 42 02
HH	eP	02 41 41
Feb. 14		
EUR	eP	03 27 41
Feb. 14		
EUR	iP	06 37 03
RC	eP	06 37 27
TUC	eP	06 35 49
Feb. 14		
EUR	eP	08 55 55
Feb. 14		
COL	eP	10 28 20
	e	28 41
Feb. 14		
EUR	eP	17 45 28
Feb. 14		
EUR	eP	22 13 21
Feb. 14		
BUT	eP	23 18 04
COL	iP	23 12 43
EUR	eP'	23 17 59
HH	eP'	23 17 39
	i	17 47
Feb. 14		
COL	eP	23 24 22
	e	24 38
	eS	25 08
	eL	25 27

Date and Station		Phase (GCT)
		h m s
Feb. 15		
[illegible]	eP	05 28 38
	e	30 29
Feb. 15		
BC	iP	07 43 44
	i	43 59
EUR	iP	07 44 02
HH	iP	07 44 31
RC	iP	07 43 41
SLC	eP	07 43 52
SJ	iP	07 39 35
TUC	iP	07 43 11
	e	43 50
Feb. 15		
EUR	eP	08 50 57
SLC	eP	08 51 53
Feb. 15		
EUR	eP	13 42 16
Feb. 15		
COL	iP	18 01 55
Feb. 15		
COL	eP	18 48 47
	e	49 22
EUR	eP	18 50 41
Feb. 15		
COL	eP	19 00 56
EUR	eP	19 02 48
Feb. 16		
COL	iP	02 41 20
EUR	eP	02 42 11
	e	42 31
Feb. 16		
COL	iP	02 58 51
EUR	eP	02 59 50
	epP	03 00 13
Feb. 16		
EUR	eP	11 45 42
Feb. 16		
EUR	eP	14 21 03
Feb. 16		
COL	ePP	14 29 35
	epPP	31 24
COLU	iP'	14 31 17
	i	31 22
	epP'	33 26

Date and Station		Phase (GCT)
		h m s
HH	eP'	14 30 30
EUR	iP'	14 30 36
RC	eP'	14 30 45
	ePP	33 20
SLC	eP'	14 30 41
	ePP	33 10
TUC	ePP	14 33 29
Feb. 16		
EUR	eP	15 45 26
Feb. 16		
EUR	eP	16 48 47
Feb. 16		
BC	eP	22 58 34
COL	iP	22 54 40
EUR	iP	22 58 05
	i	58 34
HH	iP	22 57 35
RC	eP	22 58 43
TUC	eP	22 59 08
Feb. 17		
COL	iP	00 25 51
Feb. 17		
COL	iP	03 58 22
EUR	eP'	04 04 05
Feb. 17		
BC	eP	04 46 05
COL	iP	04 41 45
EUR	eP	04 45 41
HH	eP	04 45 02
RC	eP	04 46 04
TUC	eP	04 46 39
Feb. 17		
COL	iP	06 51 52
	i	52 07
	i	52 56
	i	53 22
Feb. 17		
COL	eP	10 03 04
Feb. 17		
BC	eP	10 41 04
EUR	eP	10 41 35
HH	eP	10 42 05

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

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Date and Station		Phase (GCT)
		h m s
HH	eS	08 07 21
RC	eP	07 56 36
SLC	eP	07 57 03
	e	57 09
SJ	eP	07 55 54
TUC	eP	07 57 37
	e	57 47
	ePP	08 01 36
	eL	33 50
Feb. 19		
BC	eP	12 26 54
EUR	eP	12 26 47
HH	eP	12 26 39
Feb. 19		
EUR	iP	14 59 40
	i	15 00 27
Feb. 19		
EUR	eP	16 21 45
Feb. 19		
BC	iP	16 31 36
	i(S)	31 58
	iL	32 26
EUR	eP	16 31 38
TUC	eP	16 34 39
Feb. 19		
COL	iP	17 04 30
	i	04 54
Feb. 19		
COL	iP	17 12 30
	e	13 15
Feb. 19		
EUR	iP	17 22 15
HH	eP	17 22 44
RC	iP	17 22 06
SJ	eP	17 18 42
Feb. 19		
COL	iP	17 30 51
Feb. 19		
BC	iP	20 08 34
	i	09 13
EUR	iP	20 08 14
HH	iP	20 07 35
RC	iP	20 08 37
SIT	iP	20 05 27

Date and Station		Phase (GCT)
		h m s
TUC	eP	20 09 13
UK	eP	20 07 48
Feb. 19		
EUR	iP	20 19 14
Feb. 20		
EUR	eP	01 35 35
TUC	eP	01 35 07
Feb. 20		
BC	eP	04 54 09
BOZ	eP	04 53 25
BUT	eP	04 53 28
COL	iP	04 53 00
EUR	eP	04 53 59
	i	54 23
HH	iP	04 53 21
	e	55 29
RC	iP	04 53 09
SLC	eP	04 53 45
TUC	eP	04 54 13
Feb. 20		
BC	iP	05 27 58
BUT	eP	05 28 33
EUR	iP	05 28 16
	ipP	28 46
HH	iP	05 28 46
	epP	29 16
RC	iP	05 28 01
	ipP	28 30
SLC	eP	05 28 09
SJ	eP	05 24 05
TUC	iP	05 27 27
Feb. 20		
BC	eP	08 14 07
BUT	eP	08 14 38
EUR	iP	08 14 26
HH	iP	08 14 55
	e	20 05
RC	eP	08 14 11
TUC	iP	08 13 38
Feb. 20		
HH	eP	11 05 19

Date and Station		Phase (GCT)
		h m s
Feb. 20		
BC	iP	13 09 20
	ipP	09 44
BUT	eP	13 09 04
	i	10 09
COL	iP	13 05 35
	i	05 46
	iPP	06 28
EUR	iP	13 09 23
	ipP	09 43
HH	iP	13 08 46
	ipP	10 00
RC	iP	13 09 48
SLC	eP	13 09 32
TUC	iP	13 10 18
Feb. 20		
BC	eP	14 30 14
EUR	eP	14 28 45
TUC	eP	14 27 06
	i	27 13
	iS	28 07
	iL	28 10
Feb. 20		
EUR	eP	15 07 24
Feb. 20		
EUR	eP	15 41 36
Feb. 20		
EUR	eP	20 07 35
Feb. 20		
COL	eP	20 23 30
Feb. 20		
BC	iP'	22 17 41
	i	21 02
BOZ	iP'	22 17 30
COL	iP	22 12 09
	i	13 31
	i	15 37
	i	16 05
COLU	iP'	22 18 03
EUR	eP'	22 17 34
	i	20 50
HH	iP'	22 17 23
RC	iP'	22 17 38
	i	20 57
SLC	eP'	22 17 36

Date and Station		Phase (GCT)
		h m s
SJ	eP'	22 18 17
	i	18 38
TUC	iP'	22 17 50
	i	21 20
UK	iP'	22 17 27
Feb. 20		
COL	iP	22 28 32
	i	29 01
HH	iP	22 27 14
	e	27 28
	e	30 33
Feb. 21		
EUR	eP	00 53 04
HH	eP	00 52 22
TUC	eP	00 53 12
Feb. 21		
EUR	eP	03 07 39
TUC	iP	03 07 41
Feb. 21		
EUR	eP	03 47 20
TUC	eP	03 46 20
Feb. 21		
BC	iP	14 37 56
	ipP	38 20
	iScP	43 26
BOZ	eS	14 43 16
	eL	47 24
COL	eP	14 34 00
	iP	34 01
	ipP	34 25
	e	35 36
	iS	37 10
	iL	38 38
EUR	iP	14 37 33
	ipP	37 55
	i	38 35
	iPP	39 23
	iPcP	39 51
HH	iP	14 37 00
	epP	37 24
	iPcP	39 26
	iS	42 29
	iScP	43 01
	eL	45 22
	iScS	47 06
PHIL	eP	14 40 27
	iS	48 42
	iSS	49 30
	eL	53 48
RC	iP	14 38 11

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

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

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Date and Station		Phase	(GCT) h m s
SLC		eP	06 20 14
TUC		eP	06 20 58
Feb. 26			
TUC		eP	07 13 45
Feb. 26			
COL		iP	09 14 47
Feb. 26			
EUR		e(P)	13 17 31
		eP	17 38
Feb. 26			
COL		eP	15 29 09
Feb. 26			
EUR		eP	18 17 33
HH		eP	18 17 23
Feb. 26			
COL		iP	20 20 35
Feb. 26			
BC		eP	21 17 54
		iS	18 36
		iL	19 05
EUR		eP	21 18 35
		eS	19 49
		eL	20 08
TUC		eP	21 18 21
		eL	19 26
Feb. 26			
EUR		eP	23 19 13
Feb. 27			
HH		eP	00 01 25
Feb. 27			
COL		eP	04 43 24
Feb. 27			
COL		iP	05 16 12
EUR		eP	05 19 48
Feb. 27			
HH		e(P)	07 04 24
Feb. 27			
EUR		eP	09 35 58
Feb. 27			
COL		eP	10 03 07
Feb. 27			
BUT		eP	15 14 47
COL		eP	15 12 28
EUR		eP	15 14 58
HH		iP	15 14 37

Date and Station		Phase	(GCT) h m s
Feb. 27			
BC		e(P)	16 20 51
		e	21 06
COL		eP	16 20 26
EUR		eP	16 20 51
		i	21 07
HH		eP	16 21 08
		e	21 22
Feb. 27			
EUR		eP	19 28 27
HH		eP	19 29 12
RC		eP	19 28 38
Feb. 27			
EUR		eP	21 35 38
Feb. 28			
EUR		eP	00 31 41
Feb. 28			
EUR		eP	07 47 14
HH		eP	07 47 49
TUC		eP	07 46 19
Feb. 28			
EUR		eP	09 29 08
HH		eP	09 29 56
TUC		eP	09 30 49
UK		e(P)	09 28 41
Feb. 28			
BC		iP	11 10 28
BOZ		iP	11 09 59
		i	12 11
COL		iP	11 06 38
		iS	10 51
		eL	12 55
EUR		iP	11 10 05
HH		iP	11 09 35
		e	09 45
		i	09 56
		eScP	15 22
RC		iP	11 10 42
		eScP	15 56
SLC		iP	11 10 20
SJ		eP	11 14 48
TUC		iP	11 11 06
UK		eP	11 09 34

Date and Station		Phase	(GCT) h m s
Feb. 28			
BC		eP	13 33 03
EUR		eP	13 33 34
HH		eP	13 34 38
TUC		e(P)	13 32 11
Feb. 28			
EUR		eP	13 48 01
Feb. 28			
BC		iP	15 52 44
		ipP	53 16
BOZ		eP	15 53 31
		epP	54 10
COL		iP	15 57 04
		ipP	57 41
		i	58 24
EUR		iP	15 53 11
		ipP	53 47
HH		eP	15 53 59
		epP	54 33
		i	56 16
RC		e(P)	15 52 56
		e	53 55
SLC		eP	15 53 00
TUC		e(P)	15 52 02
		epP	52 32
Feb. 28			
RC		e(P)	21 57 19
Feb. 28			
BC		eP'	23 51 41
BOZ		eP'	23 51 32
COL		eP'	23 51 01
		iPP	54 12
		e	54 37
EUR		eP'	23 51 47
HH		eP'	23 51 34
		e	52 19
RC		eP'	23 51 46
		i	52 22
TUC		iP	23 51 40
Feb. 28			
EUR		eP	23 56 45

Date and Station	Phase	(GCT) h m s

Local and Minor Earthquakes		Local and Minor Earthquakes	
Station and Date	hour	Station and Date	hour
BUT		TUC	
Feb.		Feb.	
11	17.1	3	19.9
18	23.7		22.3
		4	09.8
COL		5	06.0
Feb.			08.3
1	11.6	6	09.1
3	13.3	8	01.7
6	05.7		09.8
	12.7		10.0
	17.4	9	07.4
	21.8	10	18.5
8	13.6	11	00.6
10	10.8		06.5
	16.2	12	04.5
12	03.2	14	00.8
	12.4		14.8
13	04.5	15	03.7
16	02.7		03.8
	23.1		03.9
17	06.9		04.1
18	01.5	16	03.1
19	03.0		07.9
20	18.5		12.2
21	02.8		13.1
24	19.6	17	03.9
25	05.9	18	06.7
26	04.0		11.6
27	13.8	19	10.2
28	00.4		11.4
	01.9	20	09.8
	08.4		11.5
	19.0		12.4
			13.1
EUR		23	20.8
Feb.		24	08.9
5	22.5		10.0
17	03.8	25	03.9
19	16.5		
	16.7	UK	
		Feb.	
SLC		17	18.3
Feb.		18	19.1
2	22.2		
3	00.4		
10	14.9		
11	21.5		
27	01.5		
SJ			
Feb.			
5	14.2		
6	09.9		
8	10.7		
	20.1		
13	23.0		
TUC			
Feb.			
2	03.4		
	14.3		
	14.6		
3	07.2		
	07.4		
	09.1		
	15.4		

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