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SEISMOLOGICAL BULLETIN

1957

March, 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.

Corrections to station and instrumental constants for 1955, 1956, and 1957.--
A recent check of ground motions for traces up on the vertical Wilson-Lamison seismographs at Bozeman and Salt Lake City indicates they should read down for compressional waves. The error probably existed from March or May 1955 to the present time. Readings for both stations are stated correctly in the March 1957 Seismological Bulletin.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Mar.	h m s	°		°		
1	02 15 12**					Near coast of Oaxaca, Mexico.
2	00 27 33*	18½	N.	78	W.	Jamaica. Three killed and five injured. Moderate property damage at Kingston and Montego Bay. Mag. 6-3/4.
2	07 12 10*	27½	N.	53½	E.	Southern Iran.
2	08 10 24*	6	S.	151	E.	Near south coast of New Britain. Felt at Pomio and Rabaul.
3	03 18 23*	8	N.	103	W.	Off coast of Mexico. Mag. 5-3/4.
3	20 49 30*	9½	S.	154	E.	Off east coast of New Guinea. h about 100 km.
4	05 47 30**					South Central Alaska.
5	12 24 35*	33	N.	34½	W.	North Atlantic Ocean. Mag. 6-1/2 - 6-3/4.
5	19 03 30*	14	S.	167½	E.	New Hebrides Islands.
6	03 39 45**					Off coast of Chiapas, Mexico.
6	11 26 44*	49	N.	155	E.	Kurile Islands.
7	10 47 25*	19	S.	178½	W.	Fiji Islands. h about 550 km.
7	21 55 42**					Arctic Ocean north of Spitzbergen.
8	12 14 12*	39½	N.	23	E.	Eastern Greece foreshock.
8	12 21 08*	39½	N.	23	E.	Eastern Greece. Two dead, many injured, and moderate property damage at Farsala, Larissa, Velestinon, and Volos. Mag. 6-1/4.
8	16 35 11*	23	S.	179	E.	South of Fiji Islands. h about 600 km.
8	20 37 54**					Eastern Greece aftershock.
8	23 35 08*	39½	N.	23	E.	Do.
9	14 06 52*	65	N.	149	W.	Central Alaska. Felt at College.
9	14 22 27.5	51.3	N.	175.8	W.	Andreanof Islands, Aleutian Islands. Seismic sea wave caused destruction of two villages and $3 million damage on Oahu and Kauai, T. H. Mag. 7-3/4 - 8.
9	15 41 50*	50½	N.	177	W.	Andreanof Islands, Aleutian Islands.
9	16 32 30*	51	N.	176	W.	Do.
9	16 45 26*	51½	N.	174	W.	Do.
9	17 10 13*	51½	N.	172½	W.	Do.
9	19 37 31*	51	N.	173	W.	Do.
9	20 00 56*	51½	N.	170½	W.	Fox Islands, Aleutian Islands.
9	20 22 02*	52	N.	169½	W.	Do.
9	20 39 15*	52½	N.	169½	W.	Fox Islands, Aleutian Islands. Mag. 6-3/4 - 7.
9	21 56 24*	53	N.	168	W.	Fox Islands, Aleutian Islands.
9	22 19 15**					Southern Bolivia. Felt at Santa Cruz.
9	22 59 26*	51½	N.	171	W.	Fox Islands, Aleutian Islands.
10	03 06 02*	52	N.	176	W.	Andreanof Islands, Aleutian Islands. Mag. 6-1/2 - 6-3/4.
10	03 08 55*	51½	N.	174	W.	Andreanof Islands, Aleutian Islands.
10	04 41 04*	52	N.	170	W.	Fox Islands, Aleutian Islands.
10	05 33 27*	52	N.	174	W.	Andreanof Islands, Aleutian Islands.
10	07 23 18*	52	N.	176	W.	Do.
10	07 31 36*	53	N.	168	W.	Fox Islands, Aleutian Islands.
10	11 20 45*	52	N.	171	W.	Do.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Mar.	h m s	°		°		
10	12 12 18**					Andreanof Islands, Aleutian Islands.
10	12 36 04*	51	N.	171	W.	Fox Islands, Aleutian Islands.
10	12 45 31*	51	N.	177	W.	Andreanof Islands, Aleutian Islands.
10	13 10 13*	51½	N.	180		Do.
10	13 28 30*	51½	N.	179	W.	Do.
10	15 26 23*	52	N.	173	W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4 (Berk).
10	16 37 45*	51½	N.	173½	W.	Andreanof Islands, Aleutian Islands.
10	19 18 30*	51	N.	177	W.	Do.
10	19 40 55*	52	N.	173	W.	Do.
10	23 56 50*	53	N.	169	W.	Fox Islands, Aleutian Islands.
11	00 08 07*	52	N.	169	W.	Do.
11	01 50 55*	50½	N.	170	W.	Do.
11	03 12 41*	51	N.	177	W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4 - 7.
11	03 35 00*	51½	N.	177	W.	Andreanof Islands, Aleutian Islands.
11	03 55 27*	50½	N.	177	W.	Do.
11	04 05 09*	51	N.	177	W.	Do.
11	06 42 49*	51½	N.	168	W.	Fox Islands, Aleutian Islands.
11	06 51 56*	51½	N.	170½	W.	Do.
11	07 08 00*	51	N.	177	W.	Andreanof Islands, Aleutian Islands.
11	07 39 05*	51½	N.	178½	W.	Do.
11	08 37 15*	53	N.	168	W.	Fox Islands, Aleutian Islands.
11	08 42 48*	50½	N.	178	W.	Andreanof Islands, Aleutian Islands.
11	09 58 42*	53	N.	164½	W.	Fox Islands, Aleutian Islands. Mag. 6-3/4 - 7.
11	12 09 10*	2	N.	97	E.	Off coast of Sumatra.
11	14 55 19*	51½	N.	178½	W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4.
11	15 35 50*	51	N.	179	W.	Andreanof Islands, Aleutian Islands. Mag. 6-1/2.
11	18 58 16**					Andreanof Islands, Aleutian Islands.
11	23 32 03*	52	N.	173	W.	Do.
12	00 18 00*	53	N.	168	W.	Fox Islands, Aleutian Islands.
12	00 39 50*	19	S.	175½	W.	Tonga Islands. h about 100 km.
12	01 02 33*	52	N.	174½	W.	Andreanof Islands, Aleutian Islands.
12	01 46 35*	52	N.	173	W.	Do.
12	02 22 57*	53	N.	170½	W.	Fox Islands, Aleutian Islands.
12	05 12 08*	52½	N.	169	W.	Do.
12	06 02 47**					Do.
12	07 28 46*	51½	N.	173½	W.	Andreanof Islands, Aleutian Islands. Mag. 6-1/4 - 6-1/2.
12	07 39 17*	52	N.	178	W.	Do.
12	08 03 11*	51	N.	178	W.	Andreanof Islands, Aleutian Islands.
12	10 38 30*	51½	N.	174½	W.	Do.
12	11 44 50*	51	N.	177	W.	Andreanof Islands, Aleutian Islands. Mag. 7 - 7-1/4.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Mar.	h m s	°	°	
12	12 46 12*	53 N.	168½ W.	Fox Islands, Aleutian Islands
12	16 32 05*	14½ S.	168 E.	New Hebrides Islands.
12	17 00 21*	51½ N.	175 W.	Andreanof Islands, Aleutian Islands.
12	17 21 47*	21½ S.	179 W.	Fiji Islands. h about 700 km.
12	18 25 18*	51 N.	178 W.	Andreanof Islands, Aleutian Islands.
12	18 28 50*	18 S.	178½ W.	Fiji Islands. h about 650 km.
12	19 11 16*	16 S.	176½ W.	Fiji Islands region. h about 400 km.
12	20 00 30*	54 N.	165 W.	Near Unimak Island.
12	20 07 31*	54 N.	165 W.	Unimak Island aftershock.
12	21 23 04*	1½ S.	79½ W.	Ecuador. h about 150 km.
12	23 45 25*	52 N.	174 W.	Andreanof Islands, Aleutian Islands.
13	02 48 20*	52 N.	171½ W.	Do.
13	03 32 58*	52 N.	175 W.	Do.
13	07 21 54*	52 N.	178 W.	Do.
13	09 09 34*	52½ N.	170 W.	Fox Islands, Aleutian Islands.
13	09 11 15**			Near west coast of North Island, New Zealand. Felt on North Island and northern South Island.
13	11 37 49*	51 N.	177 W.	Andreanof Islands, Aleutian Islands.
13	11 57 58*	52 N.	173 W.	Do.
13	12 42 35*	51½ N.	177 W.	Do.
13	15 42 05*	51½ N.	179 W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4.
13	17 43 40*	51 N.	175 W.	Andreanof Islands, Aleutian Islands.
13	18 56 33*	52½ N.	168 W.	Fox Islands, Aleutian Islands.
13	19 59 23*	54 N.	166 W.	Do.
14	00 35 38*	51 N.	178 W.	Andreanof Islands, Aleutian Islands.
14	01 52 16*	52½ N.	169 W.	Fox Islands, Aleutian Islands.
14	02 46 55*	53½ N.	163½ W.	Off south coast of Unimak Island.
14	10 34 33**			Fox Islands, Aleutian Islands.
14	12 29 32*	53 N.	166½ W.	Do.
14	14 47 45*	51½ N.	177 W.	Andreanof Islands, Aleutian Islands. Mag. 7-1/2.
14	15 51 00*	51½ N.	177½ W.	Andreanof Islands, Aleutian Islands.
14	17 06 21*	51 N.	178 W.	Do.
14	22 18 23*	51½ N.	176 W.	Do.
15	02 52 08*	53 N.	167 W.	Fox Islands, Aleutian Islands. Mag. 6-3/4.
15	04 12 56*	51 N.	176 W.	Andreanof Islands, Aleutian Islands.
15	11 57 28*	51 N.	173 W.	Do.
15	16 38 02*	53 N.	167 W.	Fox Islands, Aleutian Islands.
15	22 13 25*	51½ N.	177 W.	Andreanof Islands, Aleutian Islands.
16	00 43 41*	35 N.	53 E.	Northern Iran.
16	02 13 23*	51½ N.	175 W.	Andreanof Islands, Aleutian Islands.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Mar.	h m s	°		°		
16	02 34 12*	52	N.	179	W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4.
16	03 33 57*	52	N.	174	W.	Andreanof Islands, Aleutian Islands.
16	09 30 36*	51	N.	177	W.	Do.
16	23 55 08*	27	N.	127½	E.	Ryukyu Islands.
17	01 46 56*	51	N.	180		Andreanof Islands, Aleutian Islands.
17	02 48 36*	51	N.	178½	W.	Do.
17	07 04 40*	52½	N.	169	W.	Fox Islands, Aleutian Islands.
17	07 53 51*	51	N.	179	W.	Andreanof Islands, Aleutian Islands.
17	11 30 33*	53½	N.	167	W.	Fox Islands, Aleutian Islands.
17	15 11 42*	53	N.	167½	W.	Do.
17	16 17 13*	52½	N.	166	W.	Do.
17	22 44 44*	54	N.	166	W.	Fox Islands, Aleutian Islands. Mag. 6-1/2.
18	00 12 10*	51	N.	179½	W.	Andreanof Islands, Aleutian Islands.
18	02 24 39*	52½	N.	171	W.	Fox Islands, Aleutian Islands.
18	02 25 56*	52½	N.	171	W.	Do.
18	05 08 34*	51½	N.	179	W.	Andreanof Islands, Aleutian Islands.
18	18 56 24*	34	N.	119½	W.	Near coast of southern California. Minor damage at Oxnard and Ventura. Mag. 4-1/2 - 4-3/4.
18	19 30 16*	20	S.	178	W.	Fiji Islands. h about 450 km.
18	20 03 47*	52	N.	180		Andreanof Islands, Aleutian Islands.
18	21 14 12*	6	S.	152	E.	New Britain. Felt at Karoola, Rabaul, and Warangoi.
18	23 17 22*	45	N.	33	E.	Near coast of Crimean Peninsula.
19	03 39 35*	52	N.	175½	W.	Andreanof Islands, Aleutian Islands.
19	08 12 40*	52	N.	169	W.	Fox Islands, Aleutian Islands.
19	08 14 10*	53	N.	168	W.	Do.
19	11 28 50*	51½	N.	176½	W.	Andreanof Islands, Aleutian Islands.
19	12 50 51*	51½	N.	175	W.	Andreanof Islands, Aleutian Islands. Mag. 6-3/4.
19	15 47 24*	52	N.	172½	W.	Fox Islands, Aleutian Islands.
19	17 04 25*	52½	N.	171	W.	Do.
20	00 00 51*	52	N.	173	W.	Andreanof Islands, Aleutian Islands.
20	00 22 25*	53	N.	169	W.	Fox Islands, Aleutian Islands.
20	03 25 00*	51½	N.	175½	W.	Andreanof Islands, Aleutian Islands.
20	06 10 27*	10½	N.	127	E.	Near north coast of Mindanao, Philippine Islands.
20	11 01 42*	52	N.	172	W.	Andreanof Islands, Aleutian Islands.
20	20 28 03*	51½	N.	174½	W.	Do.
21	04 29 02*	52	N.	173	W.	Do.
21	08 44 46*	14½	N.	93	W.	Near coast of Chiapas, Mexico.
21	12 31 30*	52	N.	171	W.	Fox Islands, Aleutian Islands.
21	15 46 16*	51	N.	175	W.	Andreanof Islands, Aleutian Islands.
21	16 35 28*	3	S.	144½	E.	Near north coast of New Guinea.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Mar.	h m s	°		°		
21	17 39 12*	51½	N.	177	W.	Andreanof Islands, Aleutian Islands.
22	14 21 06*	54	N.	166	W.	Fox Islands, Aleutian Islands. Mag. 7.
22	14 33 13*	54	N.	165½	W.	Fox Islands, Aleutian Islands.
22	17 09 51*	52½	N.	171	W.	Do.
22	19 44 22	37.9	N.	122.6	W.	Northern California. Minor damage at Daly City and San Francisco. Mag. 5-1/4 - 5-1/2.
23	03 53 55**					Near coast of Chiapas, Mexico.
23	05 12 31*	5½	S.	131	E.	Banda Sea. h about 100 km. Mag. 7.
23	13 24 33*	51½	N.	179	W.	Andreanof Islands, Aleutian Islands.
23	13 39 53*	51	N.	179½	W.	Do.
24	04 36 22*	51½	N.	175½	E.	Rat Islands region, Aleutian Islands.
24	06 37 40**					Antarctic Ocean, north of Balleny Islands.
24	07 29 15*	51	N.	179½	W.	Andreanof Islands, Aleutian Islands.
24	08 22 23*	51	N.	130	W.	Near north coast of Vancouver Island, British Columbia. Mag. 6-3/4 - 7.
24	11 06 10*	52½	N.	169½	W.	Fox Islands, Aleutian Islands.
24	11 36 50*	52½	N.	171½	W.	Do.
24	12 05 10*	37	N.	71	E.	Hindu Kush. h about 200 km.
24	13 53 53*	51	N.	179½	W.	Andreanof Islands, Aleutian Islands.
24	13 56 35**					Gulf of California.
24	16 32 28*	52½	N.	169½	W.	Fox Islands, Aleutian Islands.
25	00 39 29*	53	N.	167	W.	Do.
25	01 03 59*	52	N.	176	W.	Andreanof Islands, Aleutian Islands.
25	02 28 36*	13½	N.	91	W.	Near coast of Guatemala. Felt at San Salvador, El Salvador.
25	05 37 25*	54	N.	163½	W.	Unimak Island region, Alaska.
25	14 13 33*	54	N.	165½	W.	Fox Islands, Aleutian Islands.
25	18 25 48**					Revilla Gigedo Islands region.
26	02 10 15*	54	N.	165½	W.	Fox Islands, Aleutian Islands.
26	02 47 50*	51	N.	177½	W.	Andreanof Islands, Aleutian Islands.
26	03 04 55*	51½	N.	170	W.	Fox Islands, Aleutian Islands.
26	04 49 20*	28	N.	52½	E.	Near south coast of Iran.
26	16 01 53*	50½	N.	180		Andreanof Islands, Aleutian Islands.
26	18 16 47*	51	N.	179½	W.	Do.
27	04 13 52*	52½	N.	170	W.	Fox Islands, Aleutian Islands.
27	07 31 56*	22	S.	177	W.	Tonga Islands region. h about 150 km.
27	13 00 27*	5	S.	153½	E.	Off coast of New Britain. Felt at Karoola and Rabaul. h about 100 km.
28	01 15 20*	51½	N.	174½	W.	Andreanof Islands, Aleutian Islands.
28	19 55 3[illegible]					Do.
28	20 08 20*	51	N.	171½	W.	Fox Islands, Aleutian Islands.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Mar.	h m s	°		°		
28	22 25 58*	39½	N.	22½	E.	Central Greece.
29	05 10 28*	53½	N.	167	W.	Fox Islands, Aleutian Islands.
29	05 37 50*	4	N.	127	E.	Taland Islands.
29	07 25 58*	53½	N.	167	W.	Fox Islands, Aleutian Islands.
29	08 16 03*	53	N.	167	W.	Do.
29	22 49 51*	53	N.	169	W.	Fox Islands, Aleutian Islands. Mag. 6 - 6-1/4.
30	00 42 40*	51½	N.	179½	W.	Andreanof Islands, Aleutian Islands.
30	01 50 39*	51½	N.	178	W.	Do.
30	06 37 00*	51	N.	180		Do.
30	09 17 00*	52	N.	175	W.	Do.
31	02 22 40**					Near coast of northern Chile. h about 100 km.
31	02 23 05*	43½	N.	127½	W.	Off coast of Oregon.
31	10 08 28*	51½	N.	178	W.	Andreanof Islands, Aleutian Islands.
31	17 22 55*	54	N.	158	E.	Kamchatka.

Date and Station		Phase (GCT)
		h m s
Mar. 1		
EUR	eP	00 36 44
Mar. 1		
BC	iP	02 20 44
	i	20 52
	eL	29 04
BUT	eP	02 21 56
COL	eP	02 25 17
	i	25 26
	e	29 20
EUR	eP	02 21 13
	i	21 21
HH	eP	02 22 09
	i	22 17
RC	eP	02 21 10
TUC	iP	02 19 54
	eS	23 38
	eL	26 04
Mar. 1		
COL	iP	04 25 35
	i	26 20
Mar. 1		
EUR	iP	05 55 21
HH	eP	05 54 59
	e	55 08
Mar. 1		
HH	eP	06 48 40
Mar. 1		
HH	eP	07 24 31
Mar. 1		
EUR	eP	07 35 10
HH	eP	07 35 41
	e	35 49
Mar. 1		
EUR	eP	09 20 36
Mar. 1		
EUR	iP	14 16 04
Mar. 1		
HH	e(P)	15 56 29
Mar. 1		
COL	iP	21 19 04
Mar. 1		
BC	iP	23 33 30
COL	iP	23 29 16
	i	29 37
EUR	iP	23 33 08

Date and Station		Phase (GCT)
		h m s
HH	iP	23 32 31
	iPcP	33 48
RC	iP	23 33 31
SLC	eP	23 33 18
TUC	eP	23 34 05
Mar. 2		
HH	iP	00 29 49
BC	iP	00 34 45
	eS	40 41
	eL	50 02
BOZ	iP	00 34 58
	iS	41 05
	eL	49 09
BUT	iP	00 35 03
	iPP	36 17
	iPcP	36 42
	iS	41 06
	iL	44 00
CHI	eS	00 37 23
	eL	40 39
COL	iP	00 38 14
	iPcP	38 30
	i	39 17
	iPP	40 37
	iS	46 59
	iScS	48 16
	eSS	50 47
	eL	54 00
COLU	iP	00 31 11
	iS	33 26
	iL	34 00
EUR	iP	00 35 01
HH	iP	00 35 24
	i	35 33
	eS	41 51
	eL	45 22
RC	iP	00 34 11
	ePP	35 27
	eS	39 30
	eL	41 21
SLC	iP	00 34 42
	iS	40 34
	eL	42 23
	iL	42 58
	iScS	45 09
SJ	iP	00 30 19
	i	31 38
	iS	32 32
	iL	33 54
TUC	iP	00 34 08
	eS	39 24
	eL	41 08

Date and Station		Phase (GCT)
		h m s
UK	iP	00 35 50
	iPP	37 34
	eS	42 21
	eL	45 47
WASH	iP	00 32 21
	iS	36 07
	eL	38 21
Mar. 2		
EUR	eP	03 46 32
Mar. 2		
COL	eP	06 49 45
HH	e(P)	06 50 14
Mar. 2		
COL	iP	07 24 58
	e	28 20
Mar. 2		
EUR	eP	07 41 47
Mar. 2		
BC	iP	08 24 00
	ePP	27 52
BOZ	eP	08 24 14
	ePP	28 23
BUT	eP	08 24 08
	ePP	28 07
COL	iP	08 22 54
COLU	eP'	08 29 29
	ePP	31 15
EUR	eP	08 23 55
	ePP	27 48
	ePKKP	40 46
	eP'P'	48 59
HONO	iP	08 20 12
HH	iP	08 24 02
RC	eP	08 24 38
	ePP	28 41
	ePKKP	40 48
SLC	eP	08 24 11
SJ	iP'	08 30 02
	i	30 20
	ePP	33 08
	eL	09 21 46
TUC	eP	08 24 16
	e	24 30
	ePP	28 02
	ePKKP	40 35
	eL	56 28
Mar. 2		
BC	eP	11 25 31
EUR	eP	11 25 59

Date and Station		Phase (GCT)
		h m s
HH	eP	11 26 51
RC	eP	11 26 38
TUC	iP	11 24 45
Mar. 2		
EUR	eP	11 44 12
TUC	eP	11 42 58
	i	43 11
Mar. 2		
COL	iP	16 48 49
EUR	eP	16 54 01
HH	eP	16 52 55
	e	53 08
Mar. 2		
COL	iP	17 11 44
Mar. 2		
COL	iP	20 23 03
	e	23 21
	e	24 32
Mar. 2		
EUR	eP	21 47 42
Mar. 2		
HH	e(P)	22 16 45
Mar. 3		
COL	iP	00 35 47
EUR	eP	00 36 36
Mar. 3		
BH	iP	03 23 38
	iS	27 55
BC	eP	03 24 36
	i	24 48
BOZ	eP	03 25 47
	eS	31 40
	eL	34 48
BUT	iP	03 25 52
	eS	31 53
	iL	35 04
COL	eP	03 29 05
COLU	eP	03 25 02
	ePP	25 55
	ePcP	27 20
	iS	30 17
	eL	32 14
	iL	32 58
EUR	iP	03 25 08
HH	eP	03 26 12
	i	36 14
	eS	32 55
	eL	35 32

Date and Station		Phase (GCT) h m s
RC	iP	03 25 27
	eS	31 00
	eL	34 05
SLC	eP	03 25 08
	eS	30 35
	eL	33 07
SJ	eP	03 26 39
	ePP	27 08
	eS	31 50
	eL	35 08
TUC	iP	03 23 53
	eS	28 08
	iL	29 25
WASH	eP	03 25 50
	i(PP)	27 24
	iS	31 50
	eL	37 16
Mar. 3		
TUC	e(P)	04 21 03
Mar. 3		
COL	eP	05 16 42
EUR	eP	05 20 10
Mar. 3		
COL	eP	07 06 54
	i	07 02
Mar. 3		
BC	iP	11 07 06
EUR	iP	11 07 54
	eS	09 22
	eL	09 39
TUC	eP	11 07 10
	e	07 17
	e	07 31
	eL	08 34
Mar. 3		
EUR	eP	15 20 24
Mar. 3		
COL	iP	21 02 04
EUR	iP	21 02 56
	i	02 19
Mar. 3		
COL	iP	21 29 35
EUR	eP	21 32 56
Mar. 3		
EUR	eP	22 53 26
HH	eP	23 56 18
Mar. 4		
EUR	eP	00 09 18
Mar. 4		
COL	iP	03 40 12

Date and Station		Phase (GCT) h m s
Mar. 4		
COL	iP	04 00 37
Mar. 4		
BC	eP	05 54 22
BUT	e(P)	05 53 13
	eL	06 02 00
COL	iP	05 47 56
	iS	48 16
EUR	eP	05 53 52
HH	iP	05 52 50
	eL	06 00 27
RC	iP	05 54 02
	e	06 04 26
TUC	eP	05 55 04
Mar. 4		
EUR	eP	06 40 33
Mar. 4		
EUR	eP	06 52 37
Mar. 4		
COL	iP	08 40 04
Mar. 4		
COL	i(P)	09 14 36
EUR	iP	09 06 16
Mar. 4		
EUR	eP	12 09 51
Mar. 4		
EUR	iP	12 48 46
Mar. 4		
COL	iP	14 03 50
Mar. 4		
HH	eP	20 28 03
	e	28 35
Mar. 5		
COL	eP	03 19 45
EUR	eP	03 19 14
Mar. 5		
EUR	eP	10 40 20
Mar. 5		
EUR	eP	11 15 02
Mar. 5		
EUR	eP	11 25 58
Mar. 5		
EUR	eP	11 38 56
Mar. 5		
EUR	eP	12 02 10

Date and Station		Phase (GCT) h m s
Mar. 5		
COL	iP	12 33 40
EUR	e(P)	12 33 01
	iP	33 16
TUC	eP	12 33 17
Mar. 5		
BH	iP	12 32 45
	iS	39 24
BC	iP	12 34 49
	eL	44 49
BOZ	iP	12 34 10
BUT	iP	12 34 19
	iS	42 04
	iL	53 00
CHI	eP	12 32 05
	iPP	33 25
	eS	38 01
	eL	43 29
COL	iP	12 35 35
	e(S)	45 03
	eL	54 42
	eP'P'	13 04 00
EUR	iP	12 34 46
	iPcP	35 45
	iP'P'	13 04 20
HH	iP	12 34 17
	eS	42 18
RC	iP	12 33 29
	ePP	35 29
	e(S)	40 59
	eL	47 39
SLC	iP	12 34 22
	i	34 31
	iS	42 17
	eL	52 28
TUC	iP	12 34 37
	e(PP)	37 10
	ePPP	38 12
	iS	42 56
	eL	50 14
	eP'P'	13 04 21
Mar. 5		
EUR	eP	12 40 57
Mar. 5		
EUR	eP	13 32 54
Mar. 5		
EUR	eP	14 16 25
Mar. 5		
COL	iP	15 32 33
	i	34 09
EUR	eP	15 36 04

Date and Station		Phase (GCT) h m s
Mar. 5		
BC	eP	19 15 27
COL	iP	19 16 11
	i	17 12
EUR	iP	19 16 27
	i	16 39
HH	e(P)	19 16 50
	i	19 44
TUC	eP	19 16 37
	e	17 08
Mar. 5		
HH	eP	22 13 09
BC	iP	03 45 40
COL	iP	03 50 03
	e	50 21
COLU	iP	03 44 47
EUR	iP	03 46 08
HH	iP	03 46 58
RC	eP	03 46 45
TUC	iP	03 44 54
Mar. 6		
COL	eP	05 42 49
Mar. 6		
COL	eP	10 51 45
	iP	51 53
Mar. 6		
BC	iP	11 37 22
BOZ	iP	11 36 54
BUT	eP	11 36 46
COL	iP	11 33 28
	i	33 39
EUR	iP	11 37 02
HH	iP	11 36 29
	ePcP	37 27
RC	iP	11 37 27
TUC	iP	11 37 53
Mar. 6		
COL	iP	15 25 12
EUR	iP	15 24 53
	epP	25 14
Mar. 6		
HH	eP	17 47 07

Date and Station		Phase (GCT)
		h m s
Mar. 6		
EUR	eP	21 16 11
Mar. 7		
EUR	eP	03 15 02
Mar. 7		
HH	e(P)	08 35 20
Mar. 7		
EUR	eP	10 33 42
Mar. 7		
BC	iP	10 58 49
	epP	11 00 48
BUT	eP	10 59 21
COL	iP	10 59 17
	ipP	11 01 18
EUR	eP	10 58 55
	i	59 23
HH	iP	10 59 23
RC	eP	10 59 44
TUC	iP	10 58 54
Mar. 7		
EUR	eP	17 32 11
	e	32 22
RC	eP	17 33 28
Mar. 7		
COL	iP	17 57 24
	i	58 13
EUR	eP	17 56 54
HH	eP	17 57 28
RC	eP	17 57 49
Mar. 7		
EUR	eP	18 48 39
Mar. 7		
EUR	iP	19 19 07
RC	eP	19 18 51
Mar. 7		
BC	eP	22 05 34
COL	iP	22 01 54
EUR	eP	22 05 09
HH	eP	22 03 58
RC	eP	22 04 27
Mar. 8		
EUR	eP	05 02 56

Date and Station		Phase (GCT)
		h m s
Mar. 8		
EUR	eP	06 24 38
HH	eP	06 24 35
Mar. 8		
HH	eP	06 39 10
Mar. 8		
HH	eP	07 26 39
	e	29 15
Mar. 8		
BC	eP	10 56 44
EUR	eP	10 57 17
HH	eP	10 58 26
RC	eP	10 57 44
TUC	iP	10 55 59
Mar. 8		
BC	eP	12 27 46
BOZ	iP	12 26 57
BUT	iP	12 27 00
	iS	37 16
	iL	44 29
COL	iP	12 26 04
	iPcP	26 34
	iS	35 51
	e(SS)	41 16
	eL	46 42
COLU	iP	12 26 19
EUR	eP	12 27 32
	i	27 54
HH	iP	12 26 49
	e(P'P')	51 58
RC	eP	12 26 45
	i	26 49
SLC	eP	12 27 16
SJ	eP	12 26 14
	e(S)	36 14
	eL	50 12
SIT	eP	12 26 42
	e(S)	37 50
	eL	50 35
TUC	eP	12 27 48
Mar. 8		
HH	iP	12 34 32
BC	eP	12 34 41
BOZ	iP	12 33 55
BUT	iP	12 33 58

Date and Station		Phase (GCT)
		h m s
BUT	iS	12 44 32
	i(ScS)	45 14
	eL	54 36
CHI	iP	12 33 09
	iPP	36 05
	iS	43 01
	iSS	51 13
	eL	53 08
COL	iP	12 33 01
	iS	42 44
	e	45 08
	eL	53 30
	eP'P'	59 55
COLU	iP	12 33 18
EUR	iP	12 34 29
	i	34 51
	e(PKKP)	51 38
	eP'P'	59 35
HH	eP	12 33 49
	iP	33 50
	e(S)	44 12
	iS	44 17
	eP'P'	13 00 05
PHIL	eP	12 32 35
	eS	41 55
	eL	50 07
RC	iP	12 33 44
	eS	44 08
	eSSS	53 23
	eL	59 11
SLC	eP	12 34 15
	ePP	37 53
	eS	44 47
	e	51 14
	eL	59 34
SJ	iP	12 33 12
	i	33 36
	iS	43 04
	i	44 24
	eSS	48 12
	eL	59 06
SIT	iP	12 33 33
	iS	43 57
	eL	58 58
TUC	iP	12 34 46
	e(PP)	38 08
	ePKKP	52 19
	eL	58 34
UK	eP	12 34 46
Mar. 8		
HH	eP	13 06 37
Mar. 8		
BC	iP	13 25 34
TUC	eP	13 26 33

Date and Station		Phase (GCT)
		h m s
TUC	e	13 27 03
	iL	28 25
UK	eP	13 28 09
Mar. 8		
COL	iP	16 47 20
	ipP	49 26
EUR	iP	16 47 02
HH	eP	16 47 29
Mar. 8		
EUR	eP	18 30 39
Mar. 8		
COL	iP	20 49 44
EUR	eP	20 51 22
HH	eP	20 50 32
RC	eP	20 50 30
Mar. 8		
COL	iP	22 36 22
EUR	eP	22 38 15
Mar. 8		
COL	eP	23 27 14
SJ	iP	23 27 10
Mar. 8		
BOZ	iP	23 47 52
BUT	eP	23 47 59
	eL	00 18 21
COL	iP	23 46 58
EUR	eP	23 48 25
	e(PKKP)	00 05 36
HH	iP	23 47 46
RC	iP	23 47 41
TUC	eP	23 48 43
	eL	00 25 50
Mar. 9		
EUR	eP	00 14 53
SJ	eP	00 12 28
	i	13 00
Mar. 9		
HH	iP	02 33 12
EUR	eP	02 39 06
RC	eP	02 38 39
SJ	eP	02 34 21
TUC	eP	02 38 06

Date and Station		Phase	(GCT)
			h m s
Mar. 9			
EUR	eP		03 06 09
HH	e(P)		03 05 15
	eL		09 59
RC	eP		03 06 30
SIT	iP		03 01 30
Mar. 9			
HH	eP		04 14 16
Mar. 9			
COL	iP		05 26 04
EUR	eP		05 31 13
HH	eP		05 30 18
Mar. 9			
SJ	eP		06 58 44
Mar. 9			
EUR	eP		08 10 34
Mar. 9			
TUC	eP		10 35 40
Mar. 9			
COL	iP		10 45 48
EUR	iP		10 49 07
HH	eP		10 48 39
TUC	eP		10 49 51
Mar. 9			
BUT	e(P)		14 13 01
	iL		20 55
COL	iP		14 07 04
EUR	eP		14 13 20
HH	iP		14 12 16
	eL		19 46
RC	iP		14 13 27
SIT	eP		14 09 28
	e		10 20
	iL		11 58
TUC	eP		14 14 40
Mar. 9			
BH	iP		14 35 12
BC	eP		14 30 45C
	iL		43 28
BOZ	iP		14 30 19C
CHI	eP		14 32 20N,W
	ePP		36 04
	e		38 04
	eS		40 24

Date and Station		Phase	(GCT)
			h m s
COL	iP		14 26 55C
COLU	iP		14 33 19C
	iS		42 16
EUR	iP		14 30 23C
HONO	eP		14 29 05
HH	iP		14 29 54D
	e(S)		36 00
	eL		38 13
RC	iP		14 31 05
	eS		37 59
	eL		44 33
SLC	iP		14 30 37
	iS		36 56
	eL		37 35
SJ	iP		14 35 16D
	iS		45 24
	i		46 03
SIT	iP		14 27 42D
	iS		32 08
	iL		33 21
TUC	iP		14 31 25D
	eS		38 18
	iL		45 58
UK	iP		14 29 50D
	iS		35 57
	eL		38 48
Mar. 9			
BH	iP		16 45 21
COL	iP		16 37 12
COLU	iP		16 43 31
HH	iP		16 40 09
	eS		46 16
	eL		49 38
RC	iP		16 41 15
SLC	iP		16 40 49
SJ	iP		16 45 25
TUC	iP		16 41 35
Mar. 9			
COL	iP		16 49 55
COLU	iP		16 56 17
HH	eP		16 52 47
RC	e(P)		16 54 20
SLC	iP		16 53 30
SJ	iP		16 58 18

Date and Station		Phase	(GCT)
			h m s
TUC	iP		16 54 18
Mar. 9			
BC	iP		17 18 18
BUT	e(P)		17 17 42
COL	iP		17 14 30
COLU	iP		17 21 00
HH	eP		17 17 25
	iP		17 27
RC	eP		17 18 34
SJ	iP		17 22 55
TUC	iP		17 18 59
Mar. 9			
BC	eP		17 51 32
BUT	eP		17 50 57
COL	iP		17 47 42
HH	iP		17 50 38
RC	iP		17 51 49
SJ	eP		17 56 08
TUC	eP		17 52 21
Mar. 9			
BOZ	iP		18 00 05
	e		00 20
COLU	iP		18 03 03
EUR	iP		18 00 10
HH	iP		17 59 38
RC	iP		18 00 47
SJ	iP		18 04 55
TUC	eP		18 01 08
Mar. 9			
BOZ	iP		18 04 23
RC	iP		18 05 08
SJ	iP		18 07 13
TUC	iP		18 05 35
Mar. 9			
BC	eP		18 29 53
BOZ	iP		18 29 22
COL	iP		18 26 02
HH	iP		18 28 56

Date and Station		Phase	(GCT)
			h m s
RC	eP		18 30 07
SJ	eP		18 34 22
TUC	eP		18 30 32
Mar. 9			
BOZ	iP		19 06 25
BUT	eP		19 06 23
COL	iP		19 03 04
EUR	iP		19 06 29
HH	eP		19 05 58
RC	eP		19 07 08
SJ	eP		19 11 22
TUC	eP		19 07 31
Mar. 9			
BC	eP		19 21 27
BOZ	iP		19 20 53
	i		21 23
BUT	eP		19 20 43
COL	eP		19 17 11
EUR	eP		19 20 48
HH	eP		19 19 31
RC	eP		19 21 35
SJ	eP		19 26 12
	i		26 29
TUC	eP		19 21 42
Mar. 9			
BC	eP		19 45 42
BOZ	iP		19 45 15
	i		45 28
BUT	eP		19 45 05
COL	iP		19 41 52
	e(S)		45 32
COLU	iP		19 48 17
	i		48 31
EUR	iP		19 45 18
HH	iP		19 44 49
SLC	iP		19 45 46
RC	iP		19 45 59
SJ	eP		19 47 18
SIT	iP		19 42 39

Date and Station		Phase (GCT)
		h m s
TUC	eP	19 46 24
UK	eP	19 44 56
Mar. 9		
BOZ	iP	20 08 26
BUT	e(P)	20 08 17
COL	iP	20 05 08
COLU	iP	20 11 33
EUR	iP	20 08 30
HH	iP	20 08 01
SLC	iP	20 09 06
	i	09 33
RC	iP	20 09 12
SJ	eP	20 13 33
TUC	iP	20 09 33
	eS	16 22
	eL	23 48
Mar. 9		
BC	iP	20 14 59
BUT	eP	20 14 22
COL	iP	20 11 13
EUR	iP	20 14 40
HH	iP	20 14 06
RC	eP	20 15 17
SLC	iP	20 14 49
SJ	eP	20 19 38
SIT	iP	20 11 56
	iS	15 34
TUC	iP	20 15 38
Mar. 9		
COL	iP	20 23 57
EUR	iP	20 27 21
HH	eP	20 26 55
RC	eP	20 28 07
Mar. 9		
BC	eP	20 29 53
BOZ	iP	20 29 27
BUT	eP	20 29 15
COL	iP	20 26 03
COLU	iP	20 32 33

Date and Station		Phase (GCT)
		h m s
EUR	iP	20 29 27
HH	iP	20 29 00
RC	eP	20 30 10
SJ	iP	20 34 36
SIT	iP	20 26 44
TUC	eP	20 30 32
Mar. 9		
BOZ	iP	20 39 21
	i	41 19
COL	iP	20 36 58
EUR	iP	20 39 45
HH	eP	20 38 56
RC	iP	20 40 08
SJ	eP	20 44 32
Mar. 9		
BUT	eP	20 41 09
COL	iP	20 37 55
COLU	iP	20 44 17
EUR	eP	20 41 23
HH	iP	20 40 53
RC	iP	20 42 02
SJ	iP	20 46 10
TUC	iP	20 42 24
Mar. 9		
BH	iP	20 51 43
BC	eP	20 47 08C
BOZ	iP	20 46 39D
BUT	iP	20 46 28C
	i(PP)	47 39
	iS	52 13
	iL	55 11
CHI	iP	20 48 44N,W
	ePP	50 52
	eS	56 08
	eScS	58 24
	eSS	21 00 04
	eL	04 00
COL	iP	20 43 04
	i	43 16
	iS	46 22
	iL	47 12
COLU	iP	20 49 46D
	i	49 59

Date and Station		Phase (GCT)
		h m s
COLU	iPcP	20 50 23
	iS	58 12
	iL	21 03 58
EUR	eP	20 46 32
HONO	iP	20 45 47
	iT	21 19 42
HH	iP	20 46 12D
	iS	51 43
	iL	54 13
PHIL	eP	20 49 39
	e(PP)	52 12
	eS	58 02
	eL	21 03 18
RC	iP	20 47 24C
	ePP	49 21
	iS	53 43
	iL	57 25
SLC	iP	20 46 57D
	i	47 12C
	eS	52 23
	iL	56 07
SJ	iP	20 51 48D
	e(S)	21 02 26
SIT	iP	20 43 53C
TUC	eP	20 47 47
	ePP	49 56
	iS	54 36
	iSS	58 04
	iL	21 02 21
UK	eP	20 46 06
	ePP	47 23
	iS	51 37
	eL	53 51
WASH	iP	20 48(58)
Mar. 9		
BC	eP	22 04 07
BUT	iP	22 03 29
COL	iP	22 00 11
EUR	iP	22 03 39
HH	eP	22 02 26
RC	eP	22 02 41
SJ	iP	22 08 50
SIT	iP	22 00 52
TUC	iP	22 04 47
UK	eP	22 03 08
Mar. 9		
COL	iP	22 08 36

Date and Station		Phase (GCT)
		h m s
EUR	eP	22 12 03
HH	eP	22 11 33
RC	iP	22 12 42
SJ	iP	22 16 53
TUC	eP	22 13 04
Mar. 9		
BUT	eP	22 31 30
EUR	iP	22 31 10
HH	eP	22 29 02
RC	eP	22 30 47
SJ	eP	22 26 28
TUC	eP	22 30 21
Mar. 9		
BC	eP	23 07 27
BUT	iP	23 07 02
BOZ	eP	23 07 00
COL	iP	23 03 40
COLU	iP	23 10 18
EUR	iP	23 07 04
HH	eP	23 06 33
RC	iP	23 07 44
SJ	iP	23 12 06
	i	12 18
SIT	eP	23 04 33
TUC	iP	23 08 06
Mar. 9		
BC	eP	23 15 28
COL	eP	23 13 22
EUR	iP	23 13 40
HONO	iP	23 12 05
HH	eP	23 13 09
RC	eP	23 14 18
SJ	eP	23 19 50
Mar. 9		
EUR	iP	23 14 49
HH	eP	23 14 23
RC	iP	23 15 34

Date and Station		Phase (GCT) h m s
SJ	iP	23 18 28
TUC	eP	23 16 05
Mar. 9		
COL	iP	23 17 36
HH	iP	23 20 29
RC	eP	23 21 39
TUC	eP	23 22 01
Mar. 9		
BC	eP	23 29 01
BOZ	iP	23 28 34
	i	28 45
BUT	eP	23 28 26
COL	iP	23 25 12
COLU	iP	23 31 38
EUR	iP	23 28 37
HH	iP	23 28 08
RC	iP	23 29 18
SJ	eP	23 33 36
	i	33 50
TUC	eP	23 29 48
UK	eP	23 28 16
Mar. 10		
BC	iP	01 51 56
BOZ	iP	01 51 28
	i	51 44
BUT	eP	01 51 18
COL	iP	01 48 05
COLU	iP	01 54 28
	i	54 44
EUR	iP	01 51 32
HH	iP	01 51 02
RC	iP	01 52 11
	i	52 28
SLC	iP	01 51 47
	i	52 04
SJ	iP	01 56 22
TUC	iP	01 52 34
Mar. 10		
BH	iP	03 18 57
BC	eP	03 14 20
BOZ	eP	03 13 55
	iP	14 00
BUT	iP	03 13 47
	i	14 13
	iS	19 50
	iL	22 54
CHI	eP	03 16 17
	iS	23 43
	iScS	26 35
	eL	33 07
COL	iP	03 10 33
	i	13 05
	eS	14 00
	iS	14 11
	iL	14 35
COLU	iP	03 17 03
	iS	25 41
	eL	04 02 31
EUR	iP	03 13 57
HONO	iP	03 12 45
	eS	17 46
	eL	20 44
	iT	47 10
HH	eP	03 13 29
	i	13 34
	eS	19 19
	iS	19 37
	eL	25 12
PHIL	eS	03 25 27
	eL	32 27
RC	eP	03 14 38
	i	14 44
	eS	21 29
	eScS	24 15
	iSS	25 05
	eL	28 07
SLC	iP	03 14 17
	iS	20 42
SJ	eP	03 18 54
	iP	18 57
SIT	iP	03 11 18
	iS	15 32
TUC	eP	03 15 01
	iP	15 04
	eS	22 33
	e	25 40
	eL	29 55
UK	eP	03 13 30
	i	13 41
	eS	19 10
	eL	22 03
WASH	iP	03 16 52
	eS	25 38
Mar. 10		
BOZ	iP	03 16 48
COLU	iP	03 19 49
	iS	28 32
	iL	35 41
HONO	iP	03 15 30
	iT	50 10
RC	eP	03 17 32
SLC	iP	03 17 21
SJ	iP	03 21 45
SIT	iP	03 14 09
	iS	17 24
	iL	18 04
TUC	eP	03 17 53
WASH	iP	03 19 38
	eS	28 22
	eL	36 10
Mar. 10		
BC	iP	04 48 58
BOZ	iP	04 48 31
COL	iP	04 45 08
COLU	iP	04 51 36
EUR	iP	04 48 34
HH	iP	04 48 04
RC	iP	04 49 15
SLC	iP	04 48 50
SJ	iP	04 53 37
SIT	iP	04 45 48
TUC	iP	04 49 38
Mar. 10		
BC	eP	05 41 41
BOZ	eP	05 41 11
BUT	eP	05 41 05
COL	iP	05 37 50
	eS	41 16
	eL	42 25
COLU	iP	05 44 14
EUR	eP	05 41 13
	iP	41 17
HH	iP	05 40 45
	eS	46 35
RC	eP	05 41 55
SJ	eP	05 46 12
	i	46 26
TUC	eP	05 42 17
Mar. 10		
BC	iP	07 31 41
BOZ	iP	07 31 14
BUT	iP	07 31 04
COL	iP	07 27 51
	eS	31 16
	eL	31 58
COLU	iP	07 34 14
	i	34 49
EUR	iP	07 31 18
HH	iP	07 30 49
	eS	36 46
RC	iP	07 31 57
SLC	iP	07 31 32
SJ	iP	07 36 09
	i	36 37
TUC	iP	07 32 19
UK	eP	07 30 43
Mar. 10		
BC	iP	07 39 16
BOZ	iP	07 38 46
COL	iP	07 35 19
EUR	iP	07 38 51
	i	39 04
HH	iP	07 38 19
RC	eP	07 39 31
SJ	iP	07 43 58
TUC	eP	07 39 56
Mar. 10		
BC	iP	11 28 43
BOZ	iP	11 28 15
BUT	iP	11 28 04
	iS	36 35
	iL	44 13
COL	iP	11 24 53
	iS	28 40
	iL	28 54
COLU	iP	11 31 22
	eS	40 08
	eL	47 30

Date and Station		Phase (GCT)
		h m s
EUR	iP	11 28 18
	iS	34 10
HONO	eP	11 27 22
	iT	12 01 40
HH	iP	11 27 48
	eS	33 25
	eL	38 18
RC	eP	11 28 59
	e	29 14
	iL	46 41
SLC	iP	11 28 33
	iS	34 46
	eL	38 03
SJ	eP	11 33 20
SIT	iP	11 25 35
	iS	29 28
	iL	30 50
TUC	iP	11 29 21
	eS	36 16
	eL	40 06
UK	eP	11 27 46
	e(S)	33 36
	eL	36 09
WASH	eP	11 31 24
Mar. 10		
BC	eP	12 20 41
BOZ	eP	12 20 14
	i	20 50
BUT	iP	12 20 11
	i	20 51
COL	iP	12 16 50
COLU	iP	12 23 19
EUR	iP	12 20 17
HH	eP	12 19 46
	i	20 37
RC	eP	12 20 58
	i	21 43
SJ	eP	12 25 20
	i	25 32
	i	25 47
SIT	eP	12 17 35
TUC	iP	12 21 20
UK	eP	12 20 32
Mar. 10		
BC	eP	12 44 02
BOZ	iP	12 43 36

Date and Station		Phase (GCT)
		h m s
BUT	iP	12 43 28
COL	iP	12 40 20
	eS	43 40
	eL	44 16
COLU	iP	12 46 44
EUR	iP	12 43 39
HH	iP	12 43 10
RC	iP	12 44 21
SJ	eP	12 48 43
TUC	iP	12 44 41
	eS	51 48
	eL	58 39
UK	eP	12 43 04
	eL	51 26
Mar. 10		
BC	eP	12 53 59
BOZ	iP	12 53 35
	i	54 26
BUT	eP	12 53 24
COL	iP	12 50 16
COLU	iP	12 56 33
EUR	iP	12 53 38
HH	iP	12 53 09
RC	iP	12 54 17
SJ	iP	12 58 26
SIT	iP	12 51 02
TUC	iP	12 54 37
UK	eP	12 53 02
Mar. 10		
BH	iP	13 23 17
BC	eP	13 18 55
BOZ	iP	13 18 29
	i	18 55
BUT	iP	13 18 19
	i	18 58
COL	iP	13 15 06
	eS	18 36
	iL	19 00
COLU	iP	13 21 24
EUR	iP	13 18 33
HONO	iP	13 17 05

Date and Station		Phase (GCT)
		h m s
HONO	i	13 17 18
	i	17 42
	iT	53 42
HH	eP	13 18 03
RC	iP	13 19 09
SLC	eP	13 18 46
	iP	18 49
SJ	eP	13 23 14
TUC	eP	13 19 32
UK	eP	13 18 02
Mar. 10		
BC	eP	13 37 05
BOZ	iP	13 36 41
BUT	iP	13 36 30
COL	iP	13 33 16
	i	33 23
COLU	iP	13 39 35
EUR	iP	13 36 43
HONO	iP	13 35 15
	iT	14 10 58
HH	iP	13 36 13
RC	iP	13 37 20
SJ	iP	13 41 28
SIT	eP	13 34 15
TUC	eP	13 37 43
	iP	37 44
UK	eP	13 36 23
Mar. 10		
BH	iP	15 38 59
BC	iP	15 34 29
BOZ	iP	15 34 04
	i	34 19
BUT	iP	15 33 54
	iS	39 48
	iL	49 56
CHI	eP	15 35 59
	iS	43 47
	eL	48 40
COL	iP	15 30 39
	iS	34 20
COLU	iP	15 37 08
	iS	45 46
	eL	53 11

Date and Station		Phase (GCT)
		h m s
EUR	iP	15 33 41
HONO	iP	15 32 49
	i	32 57
	eS	38 10
	eL	40 40
	iT	16 07 30
HH	iP	15 33 38
	iPP	35 23
	iS	39 23
	eL	43 53
PHIL	iS	15 45 32
	eL	56 39
RC	iP	15 34 48
	ePP	36 48
	iS	41 28
	iScS	44 42
	eL	47 07
SLC	iP	15 34 22
	iS	40 43
	iL	44 19
SJ	iP	15 39 05
SIT	iP	15 31 26
	iS	35 28
	iL	36 31
TUC	iP	15 35 10
	iS	42 11
	eL	48 29
UK	eP	15 33 31
	iS	39 16
	eL	42 05
WASH	iP	15 36 49
	eS	45 33
	eL	53 46
Mar. 10		
BC	eP	16 45 56
BOZ	eP	16 45 28
	e	45 42
	iPcP	47 29
BUT	eP	16 45 18
	i	45 33
COL	iP	16 42 07
COLU	iP	16 48 32
EUR	eP	16 45 14
	iP	45 32
	iPPP	47 33
HONO	iP	16 46 18
HH	iP	16 45 02
	iPcP	47 02
RC	iP	16 46 13

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Date and Station		Phase (GCT) h m s
SJ	eP	16 50 29
	i	50 43
SIT	iP	16 42 51
	i	43 00
	i	43 27
	i	43 53
TUC	eP	16 46 33
Mar. 10		
BC	iP	19 27 00
BOZ	iP	19 26 35
	i	27 05
BUT	eP	19 26 25
COL	iP	19 23 17
COLU	iP	19 29 34
EUR	iP	19 26 38
HH	iP	19 26 09
RC	eP	19 27 18
SIT	iP	19 24 02
TUC	iP	19 27 38
Mar. 10		
BC	eP	19 49 04
BOZ	iP	19 48 38
	i	48 46
BUT	eP	19 48 27
COL	eP	19 45 17
COLU	iP	19 51 40
EUR	iP	19 48 33
HH	iP	19 48 11
	ePP	49 55
	eS	53 58
RC	eP	19 49 21
SJ	iP	19 53 38
SIT	eP	19 46 02
	iP	46 10
TUC	eP	19 49 42
UK	eP	19 48 19
Mar. 11		
BC	eP	00 04 33
BOZ	iP	00 04 04
COL	iP	00 00 39
	eS	04 20
	eL	05 20

Date and Station		Phase (GCT) h m s
EUR	iP	00 04 09
HH	iP	00 03 37
RC	eP	00 04 49
SJ	iP	00 09 16
SIT	iP	00 01 20
TUC	eP	00 05 14
Mar. 11		
BC	eP	00 15 56
BOZ	iP	00 15 28
BUT	eP	00 15 19
COL	iP	00 12 07
	eS	15 26
	eL	16 18
COLU	iP	00 18 36
EUR	eP	00 15 29
	iP	15 32
HH	iP	00 15 02
RC	iP	00 16 13
SJ	eP	00 20 54
SIT	eP	00 12 48
	eS	16 46
TUC	iP	00 16 35
Mar. 11		
BC	eP	01 58 48
	i	59 04
BOZ	iP	01 58 22
BUT	eP	01 58 28
COL	iP	01 55 19
EUR	iP	01 58 25
HH	iP	01 57 59
RC	eP	01 59 07
SIT	iP	01 55 51
TUC	eP	01 59 26
	e	59 43
Mar. 11		
BH	iP	03 25 34
BC	iP	03 21 10D
BOZ	iP	03 20 44D
	eS	27 12
	eL	35 00

Date and Station		Phase (GCT) h m s
BUT	iP	03 20 34D
	e	20 42
	iS	26 57
	iL	30 11
CHI	iP	03 22 42N,W
	iS	30 50
	eL	34 54
COL	iP	03 17 24C
	iS	21 07
COLU	iP	03 23 44D
	iS	32 44
EUR	iP	03 20 48D
HONO	iP	03 19 21D
HH	iP	03 20 18D
	eS	26 31
	eL	30 54
PHIL	eP	03 23 42
	iS	32 28
	iSS	37 33
	eL	41 42
RC	iP	03 21 27C
	iPP	23 30
	iS	28 52
	iSS	32 22
	eL	36 54
SLC	iP	03 21 02D
	iS	27 47
	iL	31 13
SJ	eP	03 25 36C
SIT	iP	03 18 08D
	i	18 14
	iS	22 35
	iL	23 34
TUC	iP	03 21 48D
	eS	29 29
	eL	36 27
UK	iP	03 20 13D
	eS	26 22
	eL	29 22
WASH	iP	03 23 37C
	iS	32 31
	eL	40 53
Mar. 11		
BC	eP	03 43 27
BOZ	iP	03 43 01
BUT	eP	03 42 53
COL	iP	03 39 49
COLU	iP	03 46 03
EUR	iP	03 43 05

Date and Station		Phase (GCT) h m s
HH	iP	03 42 37
RC	iP	03 43 46
SLC	iP	03 43 20
TUC	iP	03 44 05
Mar. 11		
BC	eP	04 03 50
BOZ	eP	04 03 25
BUT	eP	04 03 16
COL	iP	04 00 11
EUR	iP	04 03 28
	i	03 39
	i	03 49
HH	iP	04 03 00
RC	iP	04 04 09
SJ	eP	04 08 18
SIT	iP	04 00 53
TUC	eP	04 04 28
Mar. 11		
BC	eP	04 13 39
BOZ	iP	04 13 14
BUT	iP	04 13 04
COL	iP	04 09 53
COLU	iP	04 16 14
EUR	eP	04 13 16
	iP	13 18
HH	eP	04 12 46
	iP	12 48
	eS	19 03
RC	iP	04 13 56
SLC	iP	04 13 31
SJ	iP	04 18 07
SIT	iP	04 10 39
TUC	eP	04 14 17
	iP	14 18
UK	eP	04 12 43
Mar. 11		
BC	iP	06 50 31
COL	iP	06 46 46
EUR	iP	06 50 08

Date and Station		Phase (GCT)
		h m s
HH	iP	06 49 37
RC	eP	06 50 49
TUC	eP	06 51 11
Mar. 11		
BC	eP	06 59 47
BOZ	eP	06 59 21
BUT	eP	06 59 12
COL	iP	06 56 04
COLU	iP	07 02 28
EUR	iP	06 59 24
HH	iP	06 58 55
RC	iP	07 00 07
SJ	eP	07 04 26
TUC	iP	07 00 27
Mar. 11		
BC	eP	07 16 28
BOZ	iP	07 16 01
BUT	iP	07 15 51
COL	iP	07 12 39
	eS	16 30
	eL	17 22
COLU	iP	07 19 01
EUR	iP	07 16 06
HH	iP	07 15 36
	iS	21 41
	eL	27 18
RC	iP	07 16 45
SLC	iP	07 16 20
SJ	iP	07 20 55
SIT	iP	07 13 30
TUC	iP	07 17 06
UK	eP	07 15 31
Mar. 11		
BC	eP	07 47 06
	e	47 41
BOZ	iP	07 47 13
BUT	eP	07 47 04
COL	eP	07 43 13
COLU	iP	07 50 11

Date and Station		Phase (GCT)
		h m s
EUR	iP	07 47 19
HH	iP	07 46 48
RC	iP	07 47 56
SJ	iP	07 52 04
TUC	iP	07 48 18
Mar. 11		
BC	eP	08 44 57
BOZ	eP	08 44 27
BUT	eP	08 44 22
COL	iP	08 41 02
EUR	iP	08 44 33
HH	eP	08 44 01
RC	eP	08 45 14
SJ	eP	08 49 42
SIT	iP	08 41 43
TUC	eP	08 45 37
Mar. 11		
BC	eP	08 51 21
BOZ	iP	08 51 02
BUT	e(P)	08 50 54
COL	iP	08 47 43
EUR	iP	08 51 00
HH	iP	08 50 31
	i	50 37
RC	iP	08 51 46
SIT	iP	08 48 24
	i	48 30
TUC	eP	08 52 01
	i	52 05
Mar. 11		
BH	iP	10 11 10
BC	eP	10 06 31C
BOZ	iP	10 06 03C
	iS	11 51
	eL	14 59
BUT	iP	10 05 53D
	iS	11 38
	iL	14 38
CHI	iP	10 08 08N,W
	ePP	10 12
	eS	15 22

Date and Station		Phase (GCT)
		h m s
CHI	iS	10 15 34
	eScS	17 50
	eSS	19 18
	eL	23 32
COL	iP	10 02 39
	iS	05 41
COLU	iP	10 09 11D
	iS	17 35
	iL	24 56
EUR	eP	10 06 07C
	iS	12 07
	iL	15 12
HONO	iP	10 05 15D
	iS	10 30
	eL	13 50
	iT	39 15
HH	iP	10 05 36D
	i	05 38
	iS	11 08
	eL	13 34
PHIL	eP	10 09 04
	iP	09 05
	ePP	11 25
	iS	17 20
	eSS	21 30
	eL	24 36
RC	iP	10 06 48D
	ePP	08 37
	iS	13 14
	iSS	16 49
	e	17 52
	eL	20 42
SLC	eP	10 06 21C
	i	06 24
	iS	12 21
	iL	15 34
SJ	iP	10 11 13D
SIT	iP	10 03 21C
	eS	06 53
	iS	07 04
	iL	07 44
TUC	eP	10 07 10
	i	07 15
	iS	14 00
	eL	20 18
UK	eP	10 05 36D
	i	05 46
	iS	11 03
	eL	13 31
WASH	iP	10 09 03C
	iS	17 31
	eL	24 23
Mar. 11		
BUT	eP'	12 28 17
	ePP	30 02

Date and Station		Phase (GCT)
		h m s
COL	eP'	12 26 37
EUR	iP'	12 28 23
HH	eP'	12 28 11
RC	iP'	12 28 26
TUC	eP'	12 28 14
Mar. 11		
BH	iP	15 08 15
BC	iP	15 03 54C
BOZ	iP	15 03 27C
	iS	09 55
	eL	13 15
BUT	iP	15 03 17C
	ePcP	05 12
	iS	09 38
	iScS	13 10
	eL	14 36
CHI	iP	15 05 22C
	iS	13 30
	eScS	15 02
	eSS	17 10
	eL	23 02
COL	iP	15 00 02C
	iS	03 55
COLU	iP	15 06 25C
	iS	15 19
	eL	22 20
EUR	iP	15 03 31C
HONO	iP	15 02 08C
	iS	07 30
	eL	11 06
	iT	37 40
HH	iP	15 03 02C
	i	05 45
RC	iP	15 04 10D
	iPP	06 11
	iS	11 13
	e(SS)	15 25
	eL	19 55
SLC	iP	15 03 45C
	iS	10 32
	iL	13 43
SJ	iP	15 08 17C
	iS	18 40
	eL	29 32
	iL	32 48
SIT	iP	15 00 53C
	iPP	01 23
	i	02 08
	iS	05 27
	iL	06 03

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

Date and Station		Phase (GCT)
		h m s
SLC	iP	07 47 42
SJ	iP	07 52 14
	eS	08 02 40
	iS	03 02
	eL	18 06
SIT	iP	07 44 50
	i	45 10
	i	46 03
TUC	iP	07 48 29
Mar. 12		
BC	eP	08 11 45
BOZ	iP	08 11 20
	e	11 31
BUT	eP	08 11 10
COL	iP	08 07 57
	iS	12 11
EUR	iP	08 11 24
RC	iP	08 12 02
SLC	iP	08 11 38
SJ	iP	08 16 10
TUC	eP	08 12 24
Mar. 12		
BC	eP	10 46 59
BOZ	eP	10 46 17
BUT	eP	10 46 13
COL	iP	10 42 53
COLU	iP	10 49 19
EUR	iP	10 46 21
RC	eP	10 47 01
TUC	eP	10 47 23
Mar. 12		
BH	iP	11 57 45
BC	iP	11 53 20C
BOZ	iP	11 52 51C
	eS	59 23
	eL	12 04 03
BUT	iP	11 52 43C
	ePP	54 39
	iS	59 12
	iSS	12 02 25
	iScS	03 00
	eL	03 30
CHI	eP	11 54 57
	iS	12 03 05

Date and Station		Phase (GCT)
		h m s
CHI	eScS	12 04 49
	eL	07 01
COLU	iP	11 55 52
	iS	12 04 52
	iL	12 16
EUR	iP	11 52 45D
HONO	iP	11 51 31D
PHIL	eP	11 55 57
	iS	12 04 43
	eL	12 03
RC	iP	11 53 35D
	iPP	55 51
	iS	12 00 48
	iSS	04 35
	eL	08 25
SLC	iP	11 53 11C
	iPP	55 19
	e	57 49
	iS	12 00 03
	iSS	03 15
	iL	03 52
SJ	eP	11 57 45C
	i	57 53
	eS	08 20
	iS	08 32
	e	09 40
	eL	18 30
SIT	iP	11 50 19C
	i	50 25
	iS	54 42
	iL	55 46
TUC	iP	11 53 57C
	iPP	56 20
	iS	12 01 29
	iSS	05 18
	iL	09 24
UK	eP	11 52 26
	iPP	54 06
	iS	58 36
	eL	12 01 28
WASH	iP	11 55 44C
Mar. 12		
BC	eP	12 53 57
BOZ	iP	12 53 27
BUT	eP	12 53 17
COL	iP	12 49 59
COLU	iP	12 56 36
EUR	eP	12 53 56
HONO	iP	12 52 46
	iT	13 26 45

Date and Station		Phase (GCT)
		h m s
RC	iP	12 54 12
SLC	iP	12 53 47
SJ	iP	12 58 38
SIT	iP	12 50 42
TUC	eP	12 54 37
UK	eP	12 53 05
Mar. 12		
COL	iP	16 44 47
	i	45 00
EUR	iP	16 45 06
Mar. 12		
BC	eP	17 08 41
BOZ	eP	17 08 13
	i	08 46
BUT	eP	17 08 13
COL	iP	17 04 48
	eS	08 32
	eL	09 48
COLU	iP	17 11 20
EUR	iP	17 08 17
HH	iP	17 07 47
	i	08 00
	eS	13 40
RC	eP	17 08 57
	i	09 10
	eS	15 54
SJ	eP	17 13 10
	i	13 23
SIT	eP	17 05 36
TUC	eP	17 09 19
Mar. 12		
COL	iP	17 33 35
EUR	iP	17 33 17
HH	eP	17 33 43
Mar. 12		
BOZ	iP	18 33 34
BUT	eP	18 33 15
COL	iP	18 30 02
COLU	iP	18 36 22
EUR	iP	18 33 28
HH	eP	18 32 59

Date and Station		Phase (GCT)
		h m s
RC	eP	18 34 08
Mar. 12		
COL	iP	18 40 27
EUR	iP	18 40 10
HH	eP	18 40 37
Mar. 12		
BC	eP	19 22 37
BOZ	iP	19 23 15
BUT	iP	19 23 11
COL	iP	19 23 05
EUR	iP	19 22 43
HONO	iP	19 18 29
HH	iP	19 23 11
RC	iP	19 23 35
SIT	iP	19 22 50
TUC	iP	19 22 44
	epP	24 11
	eS	32 24
UK	iP	19 22 15
Mar. 12		
BC	eP	20 07 59
BOZ	iP	20 07 27
BUT	eP	20 07 17
COL	iP	20 03 52
	i	04 01
	eL	07 31
	iL	08 14
EUR	iP	20 07 34
HH	iP	20 06 59
RC	iP	20 08 13
SJ	iP	20 12 44
SIT	iP	20 04 33
TUC	iP	20 08 40
Mar. 12		
BC	iP	20 15 00
BOZ	eP	20 14 28
COL	i(P)	20 11 05
	i	11 17
	i	11 34
	eL	14 58

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Date and Station		Phase (GCT) h m s
COLU	iP	20 10 39
EUR	iP	20 14 35
HH	eP	20 13 54
RC	iP	20 15 14
Mar. 12		
BH	iP	21 25 31
BC	eP	21 31 44
BOZ	iP	21 32 22
BUT	iP	21 32 37
COL	iP	21 35 12
COLU	iP	21 29 50
EUR	iP	21 32 08
HH	iP	21 32 45
RC	iP	21 31 48
SJ	iP	21 28 11
	e	30 04
	iS	32 40
	e	34 40
	eL	36 32
TUC	eP	21 31 06
Mar. 12		
BC	eP	23 53 36
BOZ	iP	23 53 09
	i	53 24
BUT	iP	23 52 59
	i	53 15
	iPcP	55 19
COL	iP	23 49 44
	iS	53 20
	iL	54 30
COLU	iP	23 56 12
EUR	iP	23 53 12
	i	53 24
HH	iP	23 52 42
	ePP	54 33
	eS	58 30
	eL	00 02 11
RC	iP	23 53 52
SJ	eP	23 58 08
SIT	iP	23 50 31
TUC	eP	23 54 14
	eL	00 11 20
UK	eP	23 52 50

Date and Station		Phase (GCT) h m s
WASH	iP	23 56 05
	eS	00 04 20
	eL	12 43
Mar. 13		
BH	iP	03 00 51
BC	iP	02 56 20
BOZ	iP	02 55 52
BUT	iP	02 55 42
	eS	03 01 38
	eL	09 00
COL	iP	02 52 30
	iS	55 51
	iL	56 17
COLU	iP	03 58 58
	iS	07 16
	eL	17 46
EUR	iP	02 55 57
HH	iP	02 55 26
	ePP	57 06
	eS	03 01 21
PHIL	eS	03 07 24
	eL	15 18
RC	iP	02 56 36
SLC	iP	02 56 10
SJ	iP	03 00 55
SIT	iP	02 53 13
	iS	57 07
	iL	59 28
TUC	iP	02 56 59
	eS	03 04 06
	eL	12 26
WASH	iP	02 58 51
	eL	17 29
Mar. 13		
BC	eP	03 41 14
	e	41 23
BOZ	iP	03 40 47
BUT	iP	03 40 38
	i	40 51
COL	eP	03 37 23
	iP	37 32
	iS	41 14
	iL	42 15
COLU	iP	03 43 49
EUR	iP	03 40 52
	iScP	46 34
HH	iP	03 40 22

Date and Station		Phase (GCT) h m s
HH	iS	03 46 18
	iScP	46 19
	i	46 31
	eL	50 44
RC	iP	03 41 31
SLC	eP	03 41 04
SJ	eP	03 45 43
SIT	eP	03 38 10
TUC	eP	03 42 52
Mar. 13		
BC	eP	07 30 27
BOZ	iP	07 29 58
COL	iP	07 26 36
COLU	iP	07 32 55
EUR	iP	07 30 03
HH	iP	07 29 33
RC	iP	07 30 41
SJ	iP	07 34 47
TUC	iP	07 31 04
Mar. 13		
BC	iP	09 17 29
BOZ	iP	09 17 00
COL	iP	09 13 34
	iS	16 52
	eL	18 00
COLU	iP	09 20 07
EUR	iP	09 17 03
	iScP	22 58
HONO	eP	09 16 08
HH	iP	09 16 34
	iPcP	19 04
	eS	22 03
RC	iP	09 17 46
	iScP	23 19
SLC	eP	09 17 19
SJ	eP	09 22 03
TUC	eP	09 17 08
	eS	23 32
	e	24 57
Mar. 13		
COL	iP	09 25 30

Date and Station		Phase (GCT) h m s
Mar. 13		
BC	iP	11 46 19
BOZ	iP	11 45 52
COL	eP	11 42 29
	iP	42 31
	iS	46 20
	eL	47 40
COLU	iP	11 48 52
EUR	iP	11 45 57
HH	iP	11 45 27
RC	iP	11 46 35
SLC	iP	11 46 10
SJ	eP	11 50 44
SIT	iP	11 43 18
TUC	iP	11 46 56
Mar. 13		
BC	eP	12 06 05
BOZ	eP	12 05 36
COL	iP	12 02 16
EUR	iP	12 05 42
HH	eP	12 05 11
	i	05 25
RC	eP	12 06 22
SJ	eP	12 10 38
TUC	eP	12 06 43
Mar. 13		
BC	eP	12 51 01
BOZ	iP	12 50 34
COL	iP	12 47 12
EUR	iP	12 50 38
HH	iP	12 50 09
RC	iP	12 51 17
TUC	eP	12 51 39
Mar. 13		
BC	eP	13 08 01
COL	iP	13 04 07
EUR	iP	13 07 36
HH	eP	13 07 02
RC	iP	13 08 15

Date and Station		Phase (GCT) h m s
TUC	iP	13 08 42
Mar. 13		
BH	iP	15 55 01
BC	iP	15 50 42
BOZ	iP	15 50 15
	i	50 43
	iS	56 44
	iL	16 09 00
BUT	iP	15 50 05
	i	50 18
	iS	56 23
	iL	59 49
CHI	iP	15 52 13
	eS	16 00 13
	eL	10 25
COL	iP	15 46 50
	iS	50 30
	iL	51 02
COLU	iP	15 53 13
	iS	16 02 12
	e(SS)	07 28
	eL	12 06
EUR	iP	15 50 20
HONO	iP	15 48 53
	iS	54 20
	eL	56 25
	eT	16 24 20
HH	iP	15 49 49
	eS	55 55
	iS	55 57
	eL	59 14
RC	iP	15 50 58
	ePP	52 57
	iS	58 00
	iScS	16 00 45
	eSS	01 53
	eL	05 31
SLC	iP	15 50 34
	iS	57 12
	i	16 00 46
	iL	01 00
SJ	iP	15 55 02
	iSKS	16 05 22
	iS	05 46
	ePPS	07 53
	e	09 32
	eL	18 28
SIT	iP	15 47 40
	eS	52 07
	iL	52 48
TUC	iP	15 51 21
	iS	58 43
	iSS	16 02 32
	iL	04 48

Date and Station		Phase (GCT) h m s
UK	iP	15 49 44
	iS	55 50
	eL	59 05
WASH	iP	15 53 05
	iS	16 01 55
Mar. 13		
BC	eP	17 51 59
	e	52 13
BOZ	eP	17 51 35
BUT	eP	17 51 24
COL	iP	17 48 13
EUR	iP	17 51 35
HH	eP	17 51 06
RC	eP	17 52 17
TUC	eP	17 52 38
Mar. 13		
BOZ	eP	19 03 46
COL	iP	19 00 22
EUR	iP	19 03 49
HH	eP	19 03 18
SIT	eP	19 01 02
Mar. 13		
BC	iP	20 06 55
BOZ	iP	20 06 22
BUT	eP	20 06 12
COL	iP	20 02 48
	iS	05 43
	iL	06 57
COLU	iP	20 09 33
EUR	iP	20 06 30
HH	iP	20 05 56
	iS	11 06
	eL	15 32
RC	iP	20 07 09
	ePP	08 45
	eS	13 18
	eL	18 35
SLC	iP	20 06 43
SJ	iP	20 11 38
	eS	21 46
	eL	43 44
SIT	iP	20 03 30
	i	03 46
	iS	06 44

Date and Station		Phase (GCT) h m s
SIT	eL	20 06 51
TUC	eP	20 07 35
	eS	14 10
UK	eP	20 05 54
WASH	iP	20 09 25
	eL	25 39
Mar. 14		
BC	eP	00 44 13
BOZ	eP	00 43 38
BUT	e(P)	00 44 06
COL	eP	00 40 18
	iP	40 22
COLU	eP	00 46 38
EUR	iP	00 43 43
HH	eP	00 43 14
RC	eP	00 44 23
SLC	eP	00 44 01
TUC	eP	00 44 45
Mar. 14		
BC	eP	02 00 06
BOZ	eP	01 59 34
BUT	eP	01 59 25
COL	iP	01 56 10
	iS	59 26
	iL	02 00 45
COLU	eP	02 02 44
EUR	iP	01 59 38
HH	eP	01 59 09
RC	eP	02 00 21
SJ	eP	02 04 46
	eS	15 10
	eL	38 50
SIT	eP	01 56 51
	eS	02 00 36
	iS	00 38
	eL	02 22
TUC	eP	02 00 46
Mar. 14		
BC	eP	02 54 16
BOZ	iP	02 53 45
BUT	eP	02 53 35

Date and Station		Phase (GCT) h m s
COL	iP	02 50 17
	iL	54 00
COLU	eP	02 57 00
EUR	iP	02 53 51
HH	eP	02 53 18
RC	iP	02 54 32
SLC	iP	02 54 05
SJ	iP	02 59 05
	i	59 16
SIT	iP	02 50 54
	eL	56 07
TUC	iP	02 54 56
	ePP	56 45
Mar. 14		
BC	eP	08 21 46
BOZ	eP	08 23 27
EUR	iP	08 22 31
HH	eP	08 23 53
RC	iP	08 23 14
	e	30 18
TUC	eP	08 20 45
	e	24 34
Mar. 14		
BC	iP	10 42 27
BOZ	iP	10 41 56
BUT	iP	10 41 47
COL	eP	10 38 30
	eS	41 51
	eL	42 54
EUR	iP	10 42 03
HH	iP	10 41 31
	ePcP	44 01
RC	iP	10 42 42
SJ	iP	10 47 04
SIT	iP	10 39 14
TUC	iP	10 43 07
	ePcP	44 35
Mar. 14		
BC	iP	12 37 02
BOZ	eP	12 36 32

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

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

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

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Date and Station		Phase (GCT)
		h m s
HH	eP	22 51 15
	iP	51 16
	ePcP	54 05
	eS	56 26
	eL	57 45
PHIL	eP	22 54 51
	eS	23 02 55
	i(ScS)	05 36
	eL	12 31
RC	iP	22 52 28
	ePcP	54 21
	eS	58 34
	eScS	23 02 44
	eL	07 20
SLC	iP	22 52 02
	iS	57 53
	iL	23 00 47
SJ	iP	22 56 59
	iS	23 07 05
	iScS	07 28
	eL	18 30
SIT	iP	22 48 50
	i	49 22
	i	50 18
	iS	52 00
	iL	52 27
TUC	iP	22 52 55
	e(S)	59 26
	eL	23 02 54
	iScS	03 02
UK	eP	22 51 17
	iS	56 27
	eL	59 54
WASH	iP	22 54 43
	i(PcP)	56 54
	eS	23 03 00
	eScS	04 26
	eSS	07 26
	e	09 24
	eL	13 38
Mar. 18		
BC	eP	00 20 50
BOZ	iP	00 20 25
BUT	eP	00 20 15
COL	iP	00 17 02
COLU	iP	00 23 20
	iS	32 24
	iScS	33 16
EUR	iP	00 20 28
HH	iP	00 19 59
	eS	26 01
RC	iP	00 21 07

Date and Station		Phase (GCT)
		h m s
SLC	iP	00 20 43
	e	21 13
SJ	iP	00 25 19
TUC	iP	00 21 28
Mar. 18		
BC	eP	02 32 36
COL	eP	02 28 43
	i	28 56
	eS	31 44
	iS	32 00
	iL	32 40
COLU	iP	02 35 13
	eL	52 06
EUR	iP	02 32 12
	i	32 16
	i	32 23
HH	eP	02 31 42
	iP	31 43
	iL	38 40
RC	iP	02 32 53
SLC	eP	02 32 26
	i	33 15
	i	39 00
SJ	iP	02 37 14
TUC	eP	02 33 15
Mar. 18		
BC	i(P)	02 33 24
BOZ	iP	02 32 56
BUT	eP	02 32 46
COL	iP	02 29 35
COLU	iP	02 36 01
	iS	44 35
EUR	i(P)	02 33 20
HH	iP	02 32 30
	ePcP	34 56
	iS	38 06
PHIL	iS	02 44 23
	eScS	45 43
	eL	55 52
RC	e(P)	02 33 44
	eS	40 14
	eL	43 31
SJ	iP	02 38 01
	iS	48 23
	iPPS	49 47
SIT	iP	02 30 17
	iS	34 10

Date and Station		Phase (GCT)
		h m s
SIT	iL	02 34 56
WASH	iP	02 35 55
	e	44 19
Mar. 18		
BC	eP	05 17 12
BOZ	eP	05 16 44
BUT	eP	05 16 35
COL	iP	05 13 23
	eS	17 11
	eL	18 09
COLU	iP	05 19 41
	iS	28 42
	iScS	29 36
	eL	40 04
EUR	iP	05 16 49
	e	17 03
HH	iP	05 16 19
	eScP	22 35
PHIL	eS	05 28 28
	eL	41 13
RC	iP	05 17 27
	eS	24 36
SLC	iP	05 17 03
	i	17 51
SJ	iP	05 21 34
TUC	eP	05 17 49
	eL	33 32
Mar. 18		
BC	iP	07 58 30
BOZ	eP	07 57 59
BUT	eP	07 57 50
COL	eP	07 54 31
	iP	54 33
COLU	eP	08 01 08
EUR	iP	07 58 05
	i	58 35
HH	iP	07 57 33
	iPcP	08 00 12
RC	iP	07 58 44
TUC	iP	07 59 10
Mar. 18		
BC	iP	18 57 31
	iS	58 14
	iL	58 29
BOZ	eP	18 59 41
	eL	19 03 20

Date and Station		Phase (GCT)
		h m s
BUT	iP	18 59 42
	e(S)	19 02 02
	eL	02 58
COLU	iP	19 00 49
	eS	06 46
COL	eP	19 03 24
EUR	iP	18 57 59
HH	eP	19 00 01
	eL	04 18
RC	eP	19 00 15
	eS	02 38
	eL	04 59
SLC	iP	18 58 42
	i	59 18
	iL	19 01 11
TUC	eP	18 58 20
	eS	59 44
	eL	19 00 22
UK	eP	18 58 07
	e(S)	59 24
	eL	59 40
Mar. 18		
COL	iP	19 42 20
	ipP	44 57
EUR	eP	19 41 58
HH	eP	19 42 26
	epP	44 05
	ePP	46 00
Mar. 18		
BC	eP	20 12 27
COL	iP	20 08 38
	iS	12 44
	eL	14 02
COLU	iP	20 14 57
EUR	iP	20 12 04
	i	12 35
HH	iP	20 11 34
RC	iP	20 12 42
SJ	iP	20 16 48
TUC	eP	20 13 04
Mar. 18		
BC	iP	21 27 46
COL	iP	21 46 42
	i	27 43
	iS	37 08
	ePPS	40 32
	eL	53 02

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Date and Station		Phase	(GCT) h m s
COLU		iP'	21 33 16
EUR		iP	21 27 42
		i	27 49
HH		iP	21 27 50
RC		eP	21 28 25
		ePP	32 41
SJ		iP	21 33 39
		iPP	36 46
		iPKP	37 23
		e	39 36
SIT		iP	21 26 57
TUC		e(P)	21 28 05
Mar. 18			
EUR		eP	23 30 38
HH		iP	23 29 56
RC		eP	23 29 58
Mar. 19			
BC		eP	03 47 55
BOZ		iP	03 47 26
BUT		iP	03 47 17
COL		iP	03 44 02
		iS	47 46
		eL	49 22
COLU		iP	03 50 27
EUR		iP	03 47 32
HH		iP	03 47 01
		iPcP	49 13
		eS	52 53
		eScS	57 08
RC		iP	03 48 10
		eS	54 59
SLC		iP	03 47 45
SJ		iP	03 52 22
TUC		iP	03 48 32
Mar. 19			
BC		eP	08 20 26
COL		iP	08 16 39
EUR		eP	08 20 03
HH		eP	08 19 34
RC		eP	08 20 44
SLC		iP	08 21 42
TUC		eP	08 21 06

Date and Station		Phase	(GCT) h m s
Mar. 19			
BC		eP	08 21 50
BOZ		iP	08 21 23
BUT		iP	08 21 13
		eL	31 11
COL		iP	08 17 56
		e	18 56
		iS	21 10
		iL	23 37
COLU		eP	08 24 31
EUR		eP	08 21 27
HH		iP	08 20 56
		e(PcP)	23 34
RC		iP	08 22 08
SJ		iP	08 26 34
SIT		iP	08 18 37
TUC		iP	08 22 32
UK		eP	08 20 53
WASH		eP	08 24 24
		i	24 33
Mar. 19			
BC		eP	11 37 17
BOZ		iP	11 36 50
BUT		iP	11 36 41
		iS	42 57
		eL	46 17
		iL	46 38
COL		eP	11 33 25
		iP	33 30
		iS	37 20
		iL	38 13
COLU		iP	11 39 50
		iS	48 34
		eL	59 00
EUR		iP	11 36 54
		ePP	39 40
		i	42 33
HH		iP	11 36 25
		eS	42 19
		iS	42 27
		eL	46 31
RC		iP	11 37 33
		ePP	39 29
		iS	44 30
SLC		iP	11 37 08
		iS	44 48
SJ		iP	11 41 42

Date and Station		Phase	(GCT) h m s
SJ		e	11 52 20
SIT		iP	11 34 14
		eS	38 43
		iL	40 59
TUC		iP	11 37 55
		e	38 12
		eS	45 12
		eL	53 33
UK		eP	11 36 39
WASH		iP	11 39 41
		eS	48 27
Mar. 19			
BH		iP	13 03 37
		iS	14 25
BC		iP	12 59 11D
BOZ		iP	12 58 43D
		i(S)	13 05 07
		eL	11 07
BUT		iP	12 58 35D
		iS	13 04 50
		iL	07 55
CHI		eP	13 00 51
		iS	08 43
		eScS	10 39
		eL	19 03
COL		iP	12 55 21C
		iS	59 16
		iL	13 00 20
COLU		iP	13 01 45D
		iS	10 40
		iL	20 21
EUR		iP	12 58 47D
		iL	13 07 33
HONO		iP	12 57 29C
		eL	13 05 06
		iT	32 27
HH		iP	12 58 19D
		iS	13 04 21
		eL	07 14
RC		iP	12 59 26C
		ePP	13 01 20
		i(S)	06 41
		eL	10 15
SLC		iP	12 59 02D
		i	59 39
		iS	13 05 41
		iL	09 08
SJ		iP	13 03 20
		i	05 28
		iPP	06 25
		iS	14 12
		iPPS	15 18

Date and Station		Phase	(GCT) h m s
SJ		iSS	13 19 04
		e(SSS)	22 13
		eL	27 17
SIT		iP	12 56 08
		i	56 16
		iS	13 00 30
		iL	01 50
TUC		iP	12 59 49D
		iS	13 07 09
		eL	11 18
		e(P'P')	29 36
UK		eP	12 58 13
		eS	13 04 14
		eL	07 12
WASH		iP	13 01 36
		eS	10 20
Mar. 19			
BC		iP	15 55 30
BOZ		eP	15 55 01
COL		iP	15 51 40
		e(S)	55 10
		eL	56 36
COLU		iP	15 58 07
EUR		iP	15 55 05
		i	55 38
HH		iP	15 54 37
RC		iP	15 55 46
SLC		iP	15 55 20
SJ		iP	16 00 05
SIT		iP	15 52 24
		iS	56 29
		iL	58 56
TUC		iP	15 56 08
UK		eP	15 54 31
Mar. 19			
BC		eP	17 12 20
BOZ		eP	17 11 51
COL		iP	17 08 34
		eS	11 58
		eL	13 01
EUR		eP	17 11 55
		i	11 58
		i	12 07
		iS	17 50
HH		eP	17 11 26
RC		eP	17 12 37

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Date and Station		Phase (GCT)
		h m s
SJ	iP	17 16 59
SIT	iP	17 09 18
	i	09 27
TUC	eP	17 12 59
Mar. 20		
BC	iP	00 08 58
BOZ	eP	00 08 31
BUT	eP	00 08 21
COL	iP	00 05 09
	e	07 55
	e(S)	08 59
	eL	10 03
COLU	iP	00 11 35
	i	11 48
EUR	iP	00 08 35
HH	eP	00 08 05
RC	eP	00 09 15
SLC	eP	00 08 49
	e	08 56
	e	09 02
SJ	iP	00 13 32
SIT	iP	00 05 55
TUC	iP	00 09 36
Mar. 20		
BC	e(P)	00 27 24
COL	iP	00 23 44
COLU	eP	00 30 15
EUR	iP	00 27 01
HH	eP	00 26 33
RC	eP	00 26 28
SLC	iP	00 29 36
SJ	eP	00 31 51
	e	32 22
SIT	iP	00 24 25
TUC	eP	00 28 01
	e	28 46
Mar. 20		
BC	eP	00 30 10
BOZ	eP	00 29 39
BUT	iP	00 29 30
	e	36 11
	eL	43 40

Date and Station		Phase (GCT)
		h m s
COL	iP	00 26 15
	eS	29 31
	eL	30 36
COLU	iP	00 32 47
EUR	iP	00 29 45
	i	29 54
	i	34 41
HH	eP	00 29 14
RC	iP	00 30 24
SJ	iP	00 34 50
SIT	eP	00 26 57
	iS	30 59
	eL	34 38
TUC	eP	00 30 48
Mar. 20		
BC	eP	03 33 20
BOZ	eP	03 32 52
BUT	eP	03 32 46
COL	iP	03 29 30
	eS	33 18
	iL	33 45
COLU	iP	03 35 55
	i	36 10
EUR	iP	03 32 57
	i	33 02
	i	33 32
HH	iP	03 32 28
RC	iP	03 33 36
SLC	eP	03 33 11
SJ	eP	03 37 51
SIT	eP	03 30 18
TUC	eP	03 33 58
Mar. 20		
COL	iP	06 22 33
Mar. 20		
BC	iP	11 09 47
BUT	iP	11 09 09
	e(S)	15 15
	eL	24 50
COL	iP	11 05 57
	e	07 13
	eS	09 20
	eL	10 45
COLU	iP	11 12 25

Date and Station		Phase (GCT)
		h m s
EUR	iP	11 09 23
HH	iP	11 08 54
RC	iP	11 10 03
SLC	iP	11 09 37
SJ	iP	11 14 22
SIT	iP	11 06 41
	i	06 59
	iS	10 47
	iL	11 24
TUC	iP	11 10 25
	eL	26 26
UK	eP	11 08 47
Mar. 20		
COL	iP	18 46 26
Mar. 20		
BC	eP	20 36 18
BUT	e(P)	20 35 42
COL	iP	20 32 27
	eS	36 02
	eL	37 32
COLU	eP	20 38 55
EUR	iP	20 35 58
HH	iP	20 35 19
RC	eP	20 36 35
SJ	iP	20 40 52
TUC	eP	20 36 57
Mar. 21		
BC	eP	04 37 15
COL	iP	04 33 21
	i	34 13
	eS	37 08
	eL	38 21
EUR	iP	04 36 47
	i	42 52
HH	iP	04 36 18
RC	iP	04 37 28
	e	43 12
SJ	iP	04 41 45
SIT	iP	04 34 09
TUC	eP	04 37 54
	eL	56 21
Mar. 21		
BH	iP	08 47 09

Date and Station		Phase (GCT)
		h m s
BH	iS	08 51 06
BC	eP	08 50 49
	i	50 57
BUT	iP	08 51 48
	eS	53 23
	eL	09 08 27
COL	iP	08 55 11
	iPcP	55 48
	iPP	57 28
COLU	iP	08 49 47
	iS	53 52
	eL	55 25
EUR	eP	08 51 17
	iP	51 19
	iPP	52 03
HH	iP	08 52 09
	ePcP	54 21
RC	iP	08 51 07
SLC	iP	08 51 09
	eS	56 18
SJ	eP	08 50 26
TUC	iP	08 50 06
	eS	54 34
	iS	54 38
	eL	58 18
Mar. 21		
BC	iP	12 39 30
BUT	eP	12 38 56
COLU	iP	12 42 06
EUR	iP	12 39 07
	i	39 40
HH	iP	12 38 35
RC	iP	12 39 46
SJ	iP	12 44 08
	i	44 22
TUC	iP	12 40 09
Mar. 21		
BC	iP	15 54 37
BUT	e(P)	15 54 01
COL	iP	15 50 46
	eS	54 36
	eL	55 37
COLU	iP	15 57 11
EUR	eP	15 54 14
	iP	54 15
	e	54 38

Date and Station		Phase	(GCT)
			h m s
HH		iP	15 53 44
		eS	59 41
		eL	16 05 43
RC		iP	15 54 54
SJ		iP	15 59 07
		i	59 31
		i	59 43
SIT		iP	15 51 33
TUC		iP	15 55 15
Mar. 21			
COL		iP	16 47 58
HH		e(P)	16 49 21
SJ		iP'	16 55 12
Mar. 21			
BC		eP	17 47 39
BUT		iP	17 47 06
		eS	53 25
		eL	18 00 32
COL		eP	17 43 51
		iP	43 53
		i	44 05
		iS	47 50
		eL	49 25
COLU		iP	17 50 13
EUR		iP	17 47 18
		i	47 34
HH		iP	17 46 49
		eS	52 56
		iL	53 13
		eScS	57 08
RC		iP	17 47 57
SJ		eP	17 52 06
SIT		iP	17 44 40
TUC		e(P)	17 48 25
		eL	18 04 44
Mar. 22			
BC		eP	09 44 29
BOZ		eP	09 44 00
		i	44 10
BUT		eP	09 43 54
COL		iP	09 40 40
		i	40 52
		eL	44 16
COLU		iP	09 47 07
EUR		iP	09 44 06
		i	50 07

Date and Station		Phase	(GCT)
			h m s
HH		iP	09 43 35
		i	45 59
		e	49 55
RC		iP	09 44 46
SLC		eP	09 44 23
		e	46 24
SJ		iP	09 49 05
TUC		eP	09 45 08
		eL	10 00 40
Mar. 22			
HH		iP	14 33 18
		iS	43 22
BC		eP	14 28 39C
BOZ		eP	14 28 06C
		eS	33 40
		eL	35 03
BUT		iP	14 27 57C
		eS	33 19
		iS	33 27
		iL	35 36
CHI		eP	14 30 12D
		eS	37 24
		eL	44 08
COL		eP	14 24 33
		iP	24 36
COLU		iP	14 31 19C
		iS	39 28
		iScS	41 00
		iSS	43 24
		iL	46 03
EUR		eP	14 28 10C
		i	28 14C
		eS	33 48
		iS	33 57
HONO		iP	14 27 44
		eS	33 00
		eL	35 04
		eT	15 01 49
HH		iP	14 27 37C
		i	27 41
		eS	32 47
		iS	32 54
		eL	34 53
PHIL		iP	14 31 10N,E
		ePP	33 28
		iS	39 16
		eSS	43 16
		eL	49 04
RC		iP	14 28 54C
		iS	35 03
		iL	38 15
SLC		iP	14 28 27D

Date and Station		Phase	(GCT)
			h m s
SLC		ePP	14 30 03
		iPcP	30 55
		iS	34 19
		e	34 54
		eL	37 14
		iScS	38 11
SJ		iP	14 33 23C
		i	35 16
		ePP	36 20
		iS	43 29
		i(SS)	49 22
		eSS	52 26
		iL	54 20
SIT		iP	14 25 16
		iS	28 24
		iL	29 16
TUC		iP	14 29 20D
		i	34 51
		iS	35 48
		eL	39 12
		iL	39 20
UK		iP	14 27 40D
		iS	32 54
		iL	35 05
Mar. 22			
RC		eP	14 40 45
EUR		iP	14 40 17
HONO		iP	14 40 00
		iT	15 14 00
HH		eP	14 39 46
RC		eP	14 41 00
SJ		iP	14 46 28
TUC		eP	14 41 26
UK		eP	14 39 48
Mar. 22			
BH		iP	17 22 22
BC		eP	17 17 47
BOZ		iP	17 17 19
COL		iP	17 13 55
		i	14 01
		iS	17 20
		iL	18 39
EUR		iP	17 17 41
		i	18 32
		iS	23 35
HH		iP	17 16 53
		iS	22 27
		eL	23 02
RC		iP	17 18 05
		e(ScP)	23 37
		iS	24 23

Date and Station		Phase	(GCT)
			h m s
SLC		eP	17 17 39
SJ		iP	17 22 25
		iS	32 44
		eL	52 28
SIT		iP	17 14 52
TUC		iP	17 18 26
Mar. 22			
BH		iP	19 52 48
BC		eP	19 45 59
BOZ		eP	19 47 07
		i	47 25
		eS	49 20
		eL	49 52
BUT		iP	19 47 04
		i	47 22
		eS	49 26
		iL	50 04
CHI		eP	19 50 44
		e(S)	54 48
		eL	55 16
COL		iP	19 50 40
		i	53 35
		iS	55 40
		eL	58 13
COLU		iP	19 51 03
		eL	20 02 08
EUR		eP	19 45 42
		iP	45 43
HH		iP	19 47 20
		i(S)	49 28
		iS	49 40
		iL	50 32
RC		iP	19 48 08
		eS	51 11
		iPcP	51 41
		eL	52 56
SLO		iP	19 46 37
		i	47 57
		eS	48 14
		iS	48 30
		eL	48 38
		iL	48 57
SJ		iP	19 53 35
		iPcP	54 46
		iPP	55 46
SIT		iP	19 49 06
		eS	52 51
		iS	53 19
		iL	54 22
TUC		eP	19 47 07
		eL	49 56

Date and Station		Phase (GCT)
		h m s
UK	iP	19 44 46
	eS	45 05
	iL	45 06
Mar. 22		
EUR	eP	21 19 51
	iP	19 53
	i	20 01
	i(S)	21 15
	iS	21 19
UK	eP	21 18 56
	eL	19 23
Mar. 22		
BC	eP	23 16 25
EUR	eP	23 15 55
	iP	15 58
	i	16 13
HH	eP	23 17 35
RC	iP	23 18 25
SLC	eP	23 19 24
TUC	eP	23 17 30
	eL	20 52
UK	iP	23 15 02
	i	15 07
	eS	15 20
	eL	15 23
Mar. 23		
EUR	eP	00 28 15
	iP	28 19
	iL	29 41
UK	eP	00 27 21
	i	27 28
	eL	27 50
Mar. 23		
BC	eP	01 00 37
BOZ	eP	00 59 51
BUT	eP	00 59 43
COL	eP	00 56 30
COLU	iP	01 03 04
EUR	eP	00 59 56
	iP	01 00 03
HH	eP	00 59 26
	e	01 05 26
RC	iP	01 00 37
SLC	eP	01 00 20
TUC	eP	01 00 58
Mar. 23		
BC	iP	03 59 53

Date and Station		Phase (GCT)
		h m s
COL	iP	04 04 26
EUR	iP	04 00 22
HH	e(P)	04 00 57
TUC	eP	03 58 50
Mar. 23		
BC	eP	05 27 07D
	iP'	31 05
BOZ	eP	05 27 12
	eSKS	37 31
	eSKKS	38 39
	ePS	41 07
BUT	eP	05 27 08D
	iPP	31 49
	iPPP	35 03
	iSKS	37 36
	iSKKS	38 38
	eSP	41 08
	e	42 00
	i	42 48
	eSS	48 06
	eL	59 06
COL	iP	05 25 31D
	iSKS	35 47
	iS	36 11
	iSP	37 12
	e	39 20
	eL	57 04
COLU	iP'	05 31 45
	i	32 36
	iPP	34 41
	ipPP	35 15
EUR	iP	05 27 05
	iP'	31 11
	iSP	41 00
HONO	iP	05 24 08
HH	iP	05 27 01
	eP'	31 00
	e(PKKP)	42 10
RC	eP	05 27 49
	iP'	31 16
SLC	eP	05 27 21D
	e	30 47
	ePP	32 00
SJ	iP'	05 32 26
	ipP'	33 04
	iPP	36 38
	iPPP	40 18
	eL	06 32 20
SIT	iP	05 25 57
	ipP	26 38
	iPP	30 01
	iSKS	36 23
	iSP	38 01
	ipSP	38 40

Date and Station		Phase (GCT)
		h m s
TUC	eP	05 27 29
	iP'	31 12
	i	39 14
	iS	40 05
	esS	40 52
	i	41 15
	iSP	42 08
	eSS	49 23
UK	eP	05 26 41
	iPP	31 00
Mar. 23		
BC	eP	10 36 48
COL	eP	10 32 36
	i	32 40
EUR	iP	10 36 17
	i	36 21
HH	eP	10 35 42
	e	38 29
SJ	iP	10 41 27
TUC	eP	10 37 22
Mar. 23		
BC	iP	13 32 58
BOZ	eP	13 32 32
BUT	e(P)	13 32 24
COL	iP	13 29 16
COLU	iP	13 35 44
EUR	iP	13 32 50
HH	iP	13 32 08
RC	eP	13 33 17
SLC	eP	13 32 50
SIT	iP	13 30 01
TUC	iP	13 33 36
UK	eP	13 32 02
Mar. 23		
BC	iP	13 48 35
BOZ	iP	13 48 06
BUT	eP	13 40 59
COL	iP	13 44 43
	eS	48 54
	eL	51 30
EUR	iP	13 48 12
HH	iP	13 47 18
RC	iP	13 49 50

Date and Station		Phase (GCT)
		h m s
SLC	iP	13 48 26
	i	48 34
TUC	iP	13 49 12
UK	eP	13 47 39
Mar. 24		
COL	iP	04 41 31
EUR	iP	04 45 04
	i	45 23
	i	45 25
HH	eP	04 44 35
	ePcP	46 21
SJ	iP	04 49 37
TUC	eP	04 46 04
Mar. 24		
BUT	eP'	06 56 58
COL	eP'	06 57 05
EUR	eP'	06 56 51
HH	eP'	06 56 56
Mar. 24		
BC	iP	07 37 57
BOZ	eP	07 37 27
BUT	iP	07 37 21
COL	eP	07 34 05
	iP	34 07
	iPP	34 24
	eS	37 54
	eL	38 52
EUR	iP	07 37 33
HH	iP	07 37 05
RC	iP	07 38 10
SLC	iP	07 37 48
SJ	iP	07 42 19
TUC	iP	07 38 34
UK	eP	07 37 01
Mar. 24		
BC	iP	08 26 42C
BOZ	eP	08 25 38
	iP	25 43C
	eL	28 19
BUT	eP	08 25 27
	iP	25 31
	iS	28 05
	iL	28 44

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

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Date and Station		Phase (GCT)
		h m s
TUC	eP	02 34 13
	eS	39 07
	eL	43 06
UK	eP	02 36 10
Mar. 25		
BC	eP	05 44 47
COL	eP	05 40 42
	iP	40 51
	i	41 31
	iS	43 41
	iL	44 37
EUR	iP	05 44 21
	i	44 31
RC	eP	05 45 03
TUC	eP	05 45 28
Mar. 25		
BH	eP	14 25 45
BC	iP	14 21 04
BOZ	iP	14 20 32
	i	20 42
BUT	iP	14 20 23
COL	iP	14 17 00
	eS	19 51
	iL	21 01
EUR	iP	14 20 39
HH	iP	14 20 06
	ePcP	22 53
RC	iP	14 21 19
SLC	iP	14 20 53
SJ	iP	14 25 50
	i	26 00
SIT	iP	14 17 40
TUC	iP	14 21 45
	eL	34 33
UK	iP	14 20 04
Mar. 25		
BC	iP	18 29 47
BOZ	eP	18 31 21
EUR	iP	18 30 27
HH	eP	18 31 45
RC	eP	18 31 11
TUC	iP	18 28 50
	eL	33 12

Date and Station		Phase (GCT)
		h m s
UK	eP	18 30 53
Mar. 26		
BC	eP	02 17 44
BOZ	iP	02 17 13
COL	iP	02 13 40
	i	13 46
	iL	17 50
COLU	iP	02 20 23
EUR	iP	02 17 19
HH	eP	02 16 45
	ePcP	19 34
	eS	23 15
RC	iP	02 17 59
	eS	24 07
SLC	eP	02 17 34
SIT	iP	02 14 28
	i	14 36
	iS	17 44
	iL	19 21
TUC	eP	02 18 25
UK	eP	02 16 44
Mar. 26		
BC	eP	02 56 34
BOZ	iP	02 55 55
COL	iP	02 52 33
COLU	iP	02 58 53
EUR	iP	02 55 59
	i	56 19
HH	iP	02 55 30
RC	eP	02 54 07
SLC	eP	02 56 13
TUC	eP	02 57 04
Mar. 26		
BC	eP	03 12 53
BUT	e(P)	03 12 25
COL	iP	03 09 03
	i	09 25
	eS	12 27
	eL	13 27
COLU	eP	03 15 32
EUR	iP	03 12 28
HH	iP	03 11 58

Date and Station		Phase (GCT)
		h m s
RC	eP	03 13 10
SLC	eP	03 12 44
SIT	eP	03 09 52
	i	10 02
	i	10 27
	eS	13 32
	iS	13 38
	iL	14 31
TUC	iP	03 13 32
Mar. 26		
COL	iP	05 02 06
Mar. 26		
BC	eP	16 10 35
BOZ	iP	16 10 11
BUT	iP	16 09 59
	i	10 24
COL	iP	16 06 50
COLU	iP	16 13 06
EUR	iP	16 10 13
HH	iP	16 09 44
RC	iP	16 10 52
TUC	iP	16 11 12
UK	eP	16 09 37
Mar. 26		
BC	eP	18 25 29
BOZ	iP	18 25 01
BUT	eP	18 24 51
COL	iP	18 21 37
EUR	iP	18 25 06
HH	eP	18 24 35
	ePcP	26 36
	eS	30 23
RC	eP	18 25 43
	ePcP	27 05
TUC	iP	18 26 06
Mar. 27		
BC	eP	04 21 45
BOZ	eP	04 21 24
COL	iP	04 17 50
EUR	iP	04 21 21
	i	21 33
HH	iP	04 20 49

Date and Station		Phase (GCT)
		h m s
HH	ePcP	04 23 20
RC	eP	04 22 01
	e	22 11
SLC	eP	04 21 46
TUC	eP	04 22 25
Mar. 27		
BC	eP	07 44 07
COL	iP	07 44 42
	ipP	45 21
EUR	iP	07 44 13
HH	eP	07 44 44
	ipP	45 25
RC	eP	07 45 06
SLC	eP	07 44 30
	epP	45 12
TUC	iP	07 44 12
Mar. 27		
BC	eP	13 13 43
COL	iP	13 12 40
	i	12 56
	ipP	13 18
EUR	iP	13 13 40
	ipP	14 21
HH	eP	13 12 55
	e(pP)	13 46
Mar. 28		
BC	eP	01 23 46
COL	iP	01 19 46
EUR	iP	01 23 13
	i	23 23
HH	eP	01 22 39
RC	eP	01 23 49
TUC	eP	01 24 26
Mar. 28		
BC	eP	20 03 54
BOZ	iP	20 03 26
COL	iP	20 00 07
COLU	iP	20 06 28
EUR	iP	20 03 29
	i	03 37
HH	iP	20 03 00
RC	eP	20 04 10

Date and Station		Phase	(GCT)
		h m s	
SIT	iP	20 00 56	
TUC	eP	20 04 31	
UK	eP	20 02 54	
Mar. 28			
BC	eP	20 16 20	
BOZ	iP	20 15 53	
BUT	iP	20 15 31	
	eS	21 35	
	eL	24 10	
COL	iP	20 12 34	
	i	13 22	
	e	13 02	
	iS	16 00	
	iL	17 18	
COLU	iP	20 19 00	
EUR	iP	20 15 56	
	i	16 03	
HH	eP	20 15 27	
RC	iP	20 16 39	
SJ	iP	20 20 57	
SIT	iP	20 13 15	
	i	13 42	
	iS	17 11	
	iL	19 06	
TUC	eP	20 17 00	
	ePP	18 49	
	eS	24 18	
	eL	28 38	
Mar. 28			
COL	eP	22 37 50	
BUT	eP	22 38 41	
EUR	iP	22 38 49	
	e	39 04	
HH	eP	22 38 37	
RC	eP	22 38 33	
UK	eP	22 38 16	
Mar. 29			
BH	iP	05 22 46	
	iS	32 54	
BC	eP	05 18 07C	
	eS	24 10	
	eL	27 35	
BOZ	iP	05 17 36C	
	e	17 59	
	eS	23 12	
	eL	26 04	

Date and Station		Phase	(GCT)
		h m s	
BUT	iP	05 17 25D	
	e	17 43	
	i	18 02	
	iPP	18 49	
	iPcP	19 19	
	iS	22 53	
	i	23 18	
	eL	24 21	
	iL	25 24	
CHI	iP	05 19 35D	
	eS	26 59	
	eL	35 15	
COL	iP	05 14 05C	
	e(P'P')	49 42	
COLU	iP	05 20 45C	
	iPcP	21 05	
	ePP	22 28	
	iS	29 00	
	iScS	30 27	
	iSS	32 55	
	iL	35 33	
EUR	iP	05 17 40D	
HONO	iP	05 17 04D	
	eS	22 22	
	eL	24 44	
	eT	51 10	
T_S=16 sec. A=4.5 mm.			
T_L=22 sec. $A_{max.}$=10.0mm.			
HH	iP	05 17 08D	
	ePP	18 47	
	iS	22 26	
	e	24 57	
	eScS	27 32	
	eL	28 26	
PHIL	eP	05 20 42	
	ePP	22 54	
	iS	28 48	
	eL	33 54	
RC	eP	05 18 20D	
	iP	18 21D	
	ePP	20 16	
	iS	24 35	
	eSS	27 57	
	eL	30 07	
SLC	eP	05 17 45	
	ePcP	19 40	
	eS	23 43	
	eSS	26 43	
	eL	31 16	
SJ	iP	05 22 49	
	iS	33 01	
	e	47 20	
SIT	eP	05 14 46D	
	iP	14 48D	
	i	15 13	
	iS	18 13	
	iL	19 32	

Date and Station		Phase	(GCT)
		h m s	
TUC	eP	05 18 45D	
	iP	18 47C	
	iS	25 24	
	iSS	28 52	
	eL	30 15	
UK	iP	05 17 07D	
	i	17 23	
	iS	22 27	
	eL	24 37	
WASH	iP	05 20 37C	
	ePP	22 52	
	iS	28 58	
	eL	33 35	
Mar. 29			
COL	iP	05 50 50	
Mar. 29			
BC	eP	07 33 37	
BOZ	eP	07 33 04	
COL	eP	07 29 35	
	iP	29 40	
	i	29 50	
	i	30 09	
COLU	iP	07 36 15	
EUR	iP	07 33 11	
HH	iP	07 32 39	
RC	iP	07 33 51	
SJ	iP	07 38 20	
SIT	iP	07 30 17	
TUC	iP	07 34 16	
	e	34 29	
UK	eP	07 32 37	
Mar. 29			
BC	eP	08 23 41	
	e	23 51	
BOZ	eP	08 23 11	
COL	iP	08 19 43	
EUR	iP	08 23 17	
	i	23 26	
HH	iP	08 22 43	
	ePcP	25 40	
RC	iP	08 23 56	
TUC	iP	08 24 21	
	e	24 33	
Mar. 29			
BC	eP	22 57 35	
BOZ	eP	22 57 06	
	i	57 23	

Date and Station		Phase	(GCT)
		h m s	
BOZ	e(S)	23 02 48	
	eL	10 08	
BUT	iP	22 56 57	
	i	57 15	
	ePP	58 07	
	iS	02 31	
	i	03 46	
	eL	05 18	
COL	eP	22 53 39	
	iP	53 42D	
	i	55 54	
	iS	56 53	
	iL	57 41	
COLU	iP	23 00 15	
	iS	08 34	
	eL	15 58	
EUR	iP	22 57 11	
	i	57 16	
HH	eP	22 56 38	
	e	56 48	
	ePcP	59 14	
	eS	23 02 04	
	eSS	04 54	
	eScS	06 58	
PHIL	eS	23 08 29	
	eL	15 27	
RC	eP	22 57 51	
	i	58 01	
	iPcP	59 43	
	eS	23 04 16	
	eScS	07 52	
	eL	10 09	
SLC	eP	22 57 25	
SJ	iP	23 02 17	
SIT	iP	22 54 22	
	i	55 00	
	iS	58 04	
	iL	58 47	
TUC	eP	22 58 15	
	eS	23 05 02	
	eScS	08 32	
	eL	12 55	
UK	eP	22 56 36	
Mar. 30			
BC	iP	00 51 21	
BUT	iP	00 50 44	
	ePP	53 12	
	eS	57 12	
	eL	01 01 04	
BOZ	iP	00 50 52	
COLU	iP	00 53 50	
COL	iP	00 47 29	

Date and Station		Phase (GCT)
		h m s
COL	iS	00 51 20
	iL	52 34
EUR	iP	00 50 58
HH	iP	00 50 27
	ePcP	52 28
	eS	56 19
RC	iP	00 51 48
SLC	iP	00 51 12
SJ	iP	00 55 41
SIT	eP	00 48 28
TUC	iP	00 51 58
Mar. 30		
BC	iP	01 59 14
BOZ	iP	01 58 48
BUT	eP	01 58 42
	iPP	02 00 32
COLU	eP	02 01 44
COL	iP	01 55 21
	iS	59 14
	eL	02 00 21
EUR	iP	01 58 51
	i	59 02
	i	02 00 05
HH	iP	01 58 24
	iPcP	02 00 24
	eScS	08 25
RC	eP	01 59 31
SLC	eP	01 59 07
SIT	eP	01 56 18
TUC	eP	01 59 51
Mar. 30		
BC	iP	06 45 45
BOZ	eP	06 45 15
BUT	eP	06 45 07
	iPP	46 58
COLU	iP	06 48 12
COL	iP	06 41 51
	eS	45 47
	iS	45 49
	eL	47 18
RC	eP	06 45 58
	ePcP	47 21
SLC	iP	06 45 35

Date and Station		Phase (GCT)
		h m s
SJ	iP	06 50 05
SIT	e(P)	06 42 56
TUC	iP	06 46 22
Mar. 30		
BC	eP	09 25 18
BOZ	iP	09 24 46
	i	25 10
BUT	iP	09 24 43
	i	25 25
	iPP	26 02
	i	27 10
	iS	30 48
	e	32 08
	eSS	34 06
	eL	37 04
COLU	iP	09 27 53
	iS	36 39
	eL	49 18
COL	iP	09 21 27
	i	22 10
	iS	25 10
	iL	26 00
EUR	iP	09 24 55
HH	iP	09 24 25
	ePcP	26 39
	iS	30 18
	iScS	34 32
RC	iP	09 25 34
	eS	32 25
SLC	iP	09 25 10
SJ	iP	09 29 47
SIT	iP	09 22 14
	i	22 28
	i	22 45
	i	23 38
	iS	26 32
	iL	27 40
TUC	eP	09 25 57
	eL	40 53
UK	eP	09 24 34
Mar. 31		
BC	eP	02 26 06
BOZ	iP	02 25 57
BUT	eP	02 25 41
	e	26 41
COL	iP	02 28 25
EUR	eP	02 25 26
	iP	25 30
	i	25 40

Date and Station		Phase (GCT)
		h m s
HH	iP	02 25 38
	eS	27 39
	eL	28 19
RC	iP	02 27 16
	eL	32 12
TUC	eP	02 27 12
UK	eP	02 24 30
Mar. 31		
BC	iP	02 33 52
	ipP	34 21
BOZ	iP	02 34 20
	ipP	34 49
BUT	iP	02 34 26
	ipP	34 56
COLU	iP	02 32 08
	i	32 37
	i	32 51
EUR	iP	02 34 10
	i	34 17
	iPP	34 39
	isP	34 54
HH	iP	02 34 38
	ipP	35 09
RC	iP	02 33 54
	ipP	34 23
SLC	iP	02 34 02
SJ	e(P)	02 29 58
	ipP	30 24
TUC	iP	02 33 21
	ipP	33 50
Mar. 31		
BC	eP	10 17 03
BOZ	eP	10 16 34
BUT	iP	10 16 26
COLU	iP	10 19 33
	eS	28 26
	iS	28 32
	i	28 48
	i	29 27
COL	iP	10 13 09
	eS	17 00
	iS	17 41
	iL	18 00
EUR	iP	10 16 30
HH	iP	10 16 10
RC	iP	10 17 18
	eS	24 23

Date and Station		Phase (GCT)
		h m s
SLC	eP	10 16 54
	e	17 02
SJ	iP	10 21 26
TUC	iP	10 17 40
	eS	25 05
	eL	38 28
Mar. 31		
BC	iP	17 33 09
BOZ	eP	17 32 33
BUT	iP	17 32 26
COL	iP	17 28 55
EUR	iP	17 32 46
HH	eP	17 32 08
	i	33 20
RC	iP	17 33 08
SLC	iP	17 32 55
TUC	iP	17 33 41

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Local and Minor Earthquakes

Station and Date	hour
COL	
Mar.	
2	16.8
4	04.0
	06.0
6	10.9
7	15.4
	22.4
	22.8
8	03.0
	03.4
9	05.4
11	00.7
	01.4
	13.3
	14.8
	18.7
12	19.0
17	08.4
	12.4
17	22.2
18	10.1
	11.9
	12.6
19	10.0
	20.4
22	03.6
23	19.4
	21.7
25	09.8
	15.6
27	14.4
28	19.4
	20.0
	20.2
29	23.5
31	07.3
	07.7
EUR	
Mar.	
1	16.6
	17.0
2	09.5
3	01.6
5	13.9
6	03.9
8	04.5
16	17.7
17	03.1
18	12.9
20	22.7
24	22.8
25	18.9
26	09.6
27	02.2
	13.5
	14.4
	14.5
	17.6
28	01.5
	05.1
	11.0
29	01.1

Local and Minor Earthquakes

Station and Date	hour
SLC	
Mar.	
6	23.5
8	00.5
13	00.8
16	01.5
19	01.4
20	23.1
21	22.3
25	22.9
SJ	
Mar.	
2	01.4
3	23.4
4	11.3
5	17.2
	17.3
	18.3
	19.0
6	22.6
12	19.7
13	04.5
18	22.4
28	23.9
30	06.0
TUC	
Mar.	
3	05.2
5	09.6
8	06.4
	08.2
	08.4
	08,5
9	13.4
13	06.3
	09.9
	10.0
14	05.1
	05.7
	10.2
15	06.2
	11.1
	11.2
18	04.7
	09.7
23	16.8
26	00.5
	06.2
27	07.2
28	00.4
30	06.2
31	05.4
	05.4
	11.9
UK	
Mar.	
2	16.7
5	23.6
9	03.8
19	14.8
22	21.1

Local and Minor Earthquakes

Station and Date	hour
UK	
Mar.	
23	02.8
	05.7
	12.9
	17.6
	22.8
24	00.6
	03.6
27	10.7

ADDENDA

Mar. 10
HONO iP 15 32 49

T_L=10.0 sec. A=12.5mm.

Mar. 11
HONO iP 10 05 15D

T_S=10 sec. A=07.5mm
T_L=20 sec. $A_{max.}$=27.0mm.

HONO iP 15 02 08C

T_P=04.0 sec. A=02.5mm.
T_S=10.0 sec. A=07.5mm.
T_L=20.0 sec. A=20.0mm.

Mar. 12
HONO iP 11 51 31D

T_P=04.0 sec. A=03.0mm.
T_L=08.0 sec. $A_{max.}$=41.0mm.

Mar. 13
HONO iP 15 48 53

T_S=04.0 sec. A=01.5mm.
T_L=12.0 sec. A=07.5mm.

Mar. 14
HONO iP 14 54 25C

T_S=10.0 sec. A=05.0mm.
T_L=10.0 sec. $A_{max.}$=66mm.

Mar. 15
HONO iP 02 58 37

T_S=14.0 sec. A=05.0mm.
T_L=10.0 sec. A=17.0mm.

Mar. 16
HONO iP 02 40 58

T_S=10.0 sec. A=03.5mm.
T_L=20.0 sec. A=15.0mm.

Mar. 19
HONO iP 12 57 29C

T_L=12.0 sec. A=31.5mm.

Mar. 22
HONO iP 14 27 44

T_S=13.0 sec. A=13.0mm.
T_L=26.0 sec. A=20.0mm.