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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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March 4, 2011

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
Apr.	h m s	°		°		
1	07 30 27*	11½	N.	126	E.	Near coast of Samar, Philippine Islands. h about 60 km.
1	07 54 20*	4½	N.	129	E.	Molucca Passage. h about 100 km.
1	11 35 30*	51	N.	173	W.	Andreanof Islands, Aleutian Islands.
1	19 04 41*	51½	N.	178½	W.	Do.
2	00 39 42*	51	N.	173	W.	Do.
2	08 33 10*	30	N.	137	E.	Off south coast of Honshu, Japan. h about 550 km.
2	11 51 42*	51	N.	173	W.	Andreanof Islands, Aleutian Islands.
2	20 16 57*	51½	N.	173	W.	Do.
2	20 39 04*	51	N.	173½	W.	Do.
2	21 27 54*	51	N.	173	W.	Do.
3	20 28 45**					Near west coast of Cyprus.
3	23 09 15*	51½	N.	177	W.	Andreanof Islands, Aleutian Islands.
4	00 13 08*	58	N.	155½	W.	Near coast of Alaska Peninsula.
4	00 50 47*	53	N.	168	W.	Fox Islands, Aleutian Islands.
4	01 29 42*	53	N.	166	W.	Do.
4	06 52 18*	48	N.	155	E.	Northern Kurile Islands.
4	11 00 20**					Southern Mendoza Province, Argentina.
4	11 36 17*	36	N.	70	E.	Hindu Kush.
4	14 43 49*	52½	N.	170½	W.	Fox Islands, Aleutian Islands.
5	02 49 39*	52	N.	172½	W.	Fox Islands, Aleutian Islands. Mag. 6½.
5	07 30 22*	26½	S.	177	W.	Kermadec Islands region. h about 100 km. Mag. 6-3/4.
5	15 04 09*	45	N.	148	E.	Kurile Islands.
5	16 12 20*	12½	N.	88	E.	Near coast of Nicaragua. Felt in El Salvador. h about 100 km.
5	16 36 20*	51½	N.	178½	W.	Andreanof Islands, Aleutian Islands.
7	04 23 16**					Near east coast of Kamchatka.
7	07 33 47*	51½	N.	175½	W.	Andreanof Islands, Aleutian Islands.
7	08 03 46*	53	N.	167	W.	Fox Islands, Aleutian Islands.
7	10 14 08*	1	S.	137½	E.	Near north coast of New Guinea. Mag. 6 - 6¼.
7	13 13 10**					Andreanof Islands, Aleutian Islands.
8	00 06 37*	52	N.	175½	W.	Do.
8	01 12 10*	50½	N.	179	E.	Do.
8	20 18 09*	8½	N.	83	W.	Panama-Costa Rica border. Felt at San Jose, Costa Rica, and Balboa Heights, Canal Zone. Mag. 6½.
8	20 43 10**					Andreanof Islands, Aleutian Islands.
9	00 24 39*	30½	N.	138½	E.	Off south coast of Honshu, Japan. h about 450 km. Mag. 6-3/4.
9	02 17 06*	22½	N.	144½	E.	Mariana Islands region.
9	07 39 40*	53	N.	167	W.	Fox Islands, Aleutian Islands.
9	09 59 27*	51	N.	178½	W.	Andreanof Islands, Aleutian Islands.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Apr.	h m s	°		°		
9	10 35 34*	30½	N.	138	E.	South of Honshu, Japan. h about 500 km.
9	11 02 09*	51½	N.	178½	W.	Andreanof Islands, Aleutian Islands.
9	17 40 13*	51½	N.	179½	W.	Do.
9	20 23 56*	52½	N.	169	W.	Fox Islands, Aleutian Islands.
9	22 33 54*	51	N.	177½	W.	Andreanof Islands, Aleutian Islands.
9	22 49 47*	51½	N.	177	W.	Do.
10	03 25 20*	53	N.	168	W.	Fox Islands, Aleutian Islands.
10	05 12 08*	15½	N.	98	W.	Near coast of Oaxaca, Mexico. Mag. 6-3/4 - 7.
10	07 28 03*	14	N.	91½	W.	Guatemala.
10	09 09 18*	51	N.	177	W.	Andreanof Islands, Aleutian Islands.
10	11 29 58*	56	N.	154	W.	Kodiak Island region. Mag. 7.
10	13 20 14*	51½	N.	176½	W.	Andreanof Islands, Aleutian Islands.
10	13 43 43*	15	S.	173	W.	Samoa Islands.
11	06 44 33**					Do.
11	16 12 08*	52½	N.	169½	W.	Fox Islands, Aleutian Islands.
11	17 40 37*	52	N.	168½	W.	Do.
12	04 17 45*	51½	N.	178½	W.	Andreanof Islands, Aleutian Islands.
12	06 49 11*	51½	N.	176	W.	Do.
12	13 03 45**					Do.
13	03 44 00*	48½	N.	128	W.	Off coast of Vancouver Island, British Columbia.
13	05 13 32*	52½	N.	168½	W.	Fox Islands, Aleutian Islands.
13	06 30 08*	6½	N.	126½	E.	Near coast of Mindanao, Philippine Islands.
13	07 59 23*	52½	N.	168½	W.	Fox Islands, Aleutian Islands.
13	10 10 48*	5	N.	126½	E.	Near south coast of Mindanao, Philippine Islands.
13	15 39 43*	19	S.	69½	W.	Northern Chile. h about 150 km.
14	07 59 23**					Andreanof Islands, Aleutian Islands.
14	08 24 51*	20	N.	73	W.	Windward Passage.
14	12 32 39*	4½	S.	150	E.	Bismarck Sea. h about 550 km.
14	19 17 57*	15½	S.	173	W.	Samoa Islands. Felt at Apia. Mag. 8.
14	20 59 00*	50½	N.	179	W.	Andreanof Islands, Aleutian Islands.
15	10 38 37*	51½	N.	179	W.	Do.
15	18 21 33*	51½	N.	179	W.	Do.
15	19 53 39*	51½	N.	176	W.	Do.
15	21 33 05*	52½	N.	167	W.	Fox Islands, Aleutian Islands.
16	04 04 04*	4½	S.	107½	E.	Western Java Sea. h about 600 km. Mag. 7½.
16	18 17 05**					Southern Bolivia.
17	04 35 47*	56	N.	154	W.	Kodiak Island region.

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Apr.	h m s	°		°		
17	08 07 58*	20	S.	176	W.	Tonga Islands. h about 200 km.
17	09 27 54*	52½	N.	171	W.	Fox Islands, Aleutian Islands.
17	13 24 58*	52½	N.	169	W.	Do.
17	15 07 24*	54	N.	164	W.	South of Unimak Island.
17	18 09 26*	14½	N.	92	W.	Mexico-Guatemala border.
18	00 16 17*	52	N.	171	W.	Fox Islands, Aleutian Islands.
18	07 00 03*	52	N.	176½	W.	Andreanof Islands, Aleutian Islands.
18	22 13 10*	31	N.	142	E.	South of Honshu, Japan.
19	08 39 37*	6½	S.	155½	E.	Solomon Islands. Felt at Buin.
19	15 44 53*	51½	N.	168½	W.	Fox Islands, Aleutian Islands.
19	22 19 26*	52	N.	166½	W.	Fox Islands, Aleutian Islands. Mag. 7 - 7¼.
20	00 09 10**					Solomon Islands.
20	06 48 04**	54½	S.	131½	W.	South Pacific Ocean.
20	12 30 37*	6	S.	147½	E.	Near coast of New Guinea.
20	17 54 20*	52	N.	168	W.	Fox Islands, Aleutian Islands.
20	19 54 24*	51	N.	177	W.	Andreanof Islands, Aleutian Islands.
21	21 12 26*	7	N.	72	W.	Colombia-Venezuela border. Mag. 6-1/2 - 6-3/4.
21	23 17 52*	52	N.	176	W.	Andreanof Islands, Aleutian Islands.
22	00 18 16*	30½	N.	84½	E.	Tibet.
22	01 42 15*	30½	N.	84½	E.	Tibet.
22	05 29 01*	31	N.	91	E.	Tibet.
22	13 43 14*	7	N.	72	W.	Colombia-Venezuela aftershock. Felt at Caracas and Tachiro, Venezuela. 180 houses destoryed in Tachiro.
22	15 37 20*	7	N.	72	W.	Colombia-Venezuela aftershock. Felt at Caracas and Tachiro, Venezuela and in northern Colombia.
23	09 23 39*	34½	N.	86-3/4	W.	Northern Alabama. Felt in Alabama and Georgia.
23	17 57 18**					Colombia-Venezuela aftershock.
23	21 58 35*	27	S.	68	W.	Northern Chile-Argentina border.
24	19 10 05*	36	N.	28½	E.	Turkey foreshock. Mag. 6-3/4 - 7.
25	02 25 36*	36½	N.	29	E.	Near south coast of Turkey. 15 killed at Fethiye, Turkey. Many injured and extensive property damage throughout southeastern Turkey and the Island of Rhodes. Also felt on Cyprus, Dodecanese Islands, and in Cairo, Liban and Israel. Mag. 7 - 7¼.
25	07 09 20*	45	N.	100	E.	Outer Mongolia.
25	07 15 15*	52	N.	173½	W.	Andreanof Islands, Aleutian Islands.
25	07 52 03**					Turkey aftershock.
25	10 16 18*	4½	S.	134	E.	Off coast of New Guinea.
25	11 06 02*	1½	N.	126	E.	Molucca Passage.
25	14 07 58*	60½	N.	145	W.	Near south coast of Alaska.
25	17 45 14*	51½	N.	180		Andreanof Islands, Aleutian Islands

Date 1957	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Apr.	h m s	°		°		
25	21 57 36*	33	N.	115½	W.	Imperial County, California. Felt. Mag. 5.4.
25	22 24 11*	33½	N.	115½	W.	Imperial County, California. Felt. Mag. 5.3.
26	02 11 52*	37	N.	70½	E.	Hindu Kush. h about 200 km.
26	06 33 32*	36½	N.	29	E.	Turkey aftershock.
26	10 23 17*	60	N.	147	W.	Near south coast of Alaska.
26	15 08 22*	45	N.	148	E.	Kurile Islands.
27	00 09 47*	0		121½	E.	Near coast of Celebes. h about 60 km.
27	02 39 24*	53	N.	166	W.	Fox Islands, Aleutian Islands.
27	04 19 20**					Near coast of central Chile. Felt at Santiago.
27	11 30 33*	20	S.	170	E.	Loyalty Islands. h about 100 km.
27	12 48 45**					Andreanof Islands, Aleutian Islands.
28	00 00 15**					New Britain region. Felt at Karoola, Rabaul, and Warramung.
28	01 23 40*	7	N.	127	E.	Off coast of Mindanao, Philippine Islands. Mag. 5-3/4 - 6.
28	10 36 41*	6	S.	155	E.	Solomon Islands. Felt at Karoola, Sohano, Tol, and Warramung. h about 60 km.
28	14 48 52*	52½	N.	168½	W.	Fox Islands, Aleutian Islands.
28	18 55 04**					Northern Sumatra.
28	20 03 42*	50½	N.	178	W.	Andreanof Islands, Aleutian Islands.
28	23 39 14*	52	N.	166	W.	Fox Islands, Aleutian Islands.
29	04 30 04*	52½	N.	168½	W.	Do.
29	04 37 12*	52½	N.	169	W.	Do.
29	09 22 14*	44	N.	147	E.	Kurile Islands.
29	10 11 53*	22	S.	66	W.	Argentina-Bolivia border. Felt at Antofagasta, Chile. h about 200 km.
29	19 22 58*	5½	N.	126	E.	Near south coast of Mindanao, Philippine Islands. h about 400 km.
29	20 55 57*	9	S.	107	E.	Off south coast of Java.
30	03 32 49*	10½	N.	127	E.	Off coast of Samar Island, Philippine Islands.

Date and Station		Phase (GCT) h m s
Apr. 1		
EUR	eP	01 54 51
	i	55 16
Apr. 1		
EUR	iP	03 05 24
HH	eP	03 04 55
	e	05 08
TUC	eP	03 06 24
Apr. 1		
EUR	eP	04 09 20
Apr. 1		
BH	iP	04 16 45
	iS	17 39
Apr. 1		
HH	eP	05 35 11
TUC	eP	05 36 33
Apr. 1		
HH	eP	06 16 44
Apr. 1		
TUC	eP	07 38 12
Apr. 1		
COL	iP	07 42 24
Apr. 1		
COL	iP	08 06 42
EUR	eP'	08 12 52
	i	16 05
HH	eP	08 08 23
	eP'	12 36
TUC	eP'	08 12 55
	e(PP)	14 32
Apr. 1		
EUR	iP	10 07 47
HH	eP	10 07 19
TUC	eP	10 08 49
Apr. 1		
COL	iP	11 13 26
EUR	iP	11 16 50
HH	iP	11 16 20
RC	eP	11 17 32
TUC	eP	11 17 54
Apr. 1		
BC	eP	11 43 38
BOZ	eP	11 43 13
BUT	eP	11 43 03

Date and Station		Phase (GCT) h m s
BUT	iPcP	11 45 10
COL	iP	11 39 55
	e	41 07
	e(S)	44 27
	eL	45 05
COLU	iP	11 46 17
EUR	iP	11 43 15
	i	43 27
	iL	52 43
HH	iP	11 42 36
	ePcP	45 05
RC	eP	11 43 57
	iP	43 58
SLC	iP	11 43 30
SIT	iP	11 40 38
	i	40 49
	i	41 11
	i	41 15
	iL	45 54
TUC	iP	11 44 16
	e	46 42
	eS	51 36
	eL	55 40
Apr. 1		
COL	iP	15 03 45
EUR	iP	15 07 16
	i	07 28
Apr. 1		
COL	eP	16 32 28
EUR	iP	16 35 53
HH	eP	16 35 24
Apr. 1		
COL	iP	18 29 53
EUR	iP	18 33 20
	i	37 30
Apr. 1		
COL	iP	18 38 04
EUR	iP	18 42 59
HH	eP	18 42 27
	ePcP	45 00
Apr. 1		
BOZ	eP	19 12 48
COL	iP	19 09 26
EUR	iP	19 12 54
HH	eP	19 12 23
RC	eP	19 13 32

Date and Station		Phase (GCT) h m s
Apr. 1		
BOZ	eP	20 07 26
EUR	iP	20 07 15
	i	07 20
HH	iP	20 07 43
	i	08 35
RC	iP	20 07 00
	i	07 53
	e	16 27
TUC	eP	20 06 28
Apr. 1		
COL	iP	20 50 35
EUR	iP	20 54 03
HH	eP	20 53 34
	ePcP	55 41
RC	eP	20 54 43
Apr. 1		
HH	eP	22 47 11
Apr. 2		
BC	iP	00 47 51
BOZ	iP	00 47 24
BUT	eP	00 47 12
	i	48 08
	i	49 53
	e(S)	53 54
	eL	59 00
COL	iP	00 44 06
	iPP	44 37
	i	44 54
	i	45 22
	i	45 50
	i	46 34
	eS	47 27
	iL	47 50
COLU	iP	00 50 29
	i	50 40
	i	50 52
EUR	iP	00 47 28
	iS	52 52
HH	iP	00 46 59
	eS	52 54
RC	iP	00 48 09
SLC	iP	00 47 42
SJ	iP	00 52 24
SIT	iP	00 45 04
	i	45 08
	i	45 34
	i	47 44
	iS	49 09
	iL	50 38

Date and Station		Phase (GCT) h m s
TUC	iP	00 48 30
	eS	55 38
	eL	01 02 15
Apr. 2		
COL	iP	02 54 25
EUR	iP	02 54 40
Apr. 2		
BC	iP	04 23 26
EUR	iP	04 24 14
	i	24 45
	iS	25 47
	iL	26 05
HH	eP	04 24 14
	e	25 44
TUC	eP	04 23 57
	e	24 15
	e	24 33
	iL	25 14
Apr. 2		
EUR	iP	04 43 24
HH	eP	04 43 52
TUC	eP	04 42 37
Apr. 2		
HH	eP	07 07 08
Apr. 2		
HH	eP	08 32 54
Apr. 2		
BC	iP	08 45 00
BOZ	eP	08 44 43
	epP	46 34
BUT	iP	08 44 37
	epP	46 29
COL	iP	08 42 08
EUR	iP	08 44 45
	ipP	46 37
HH	iP	08 44 27
	epP	46 18
	eS	53 46
RC	eP	08 45 09
	epP	47 04
	ePP	48 40
	eS	55 09
TUC	eP	08 45 22
Apr. 2		
COL	iP	09 00 24
EUR	iP	09 02 52

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Date and Station		Phase	(GCT) h m s
HH		iP	09 02 37
RC		eP	09 03 20
Apr. 2 HH		eP	09 49 29
Apr. 2 BOZ		eP	11 59 24
COL		eP	11 56 07
		iP	56 09
EUR		iP	11 59 26
HH		eP	11 58 58
		e	12 00 40
		ePcP	01 19
RC		eP	12 00 09
TUC		eP	12 00 28
		e	01 54
Apr. 2 HH		eP	13 16 42
Apr. 2 EUR		iP	15 45 49
Apr. 2 EUR		iP	16 21 26
Apr. 2 COL		iP	17 46 23
Apr. 2 BC		iP	19 07 38
EUR		iP	19 08 05
		i	08 17
TUC		eP	19 09 06
		i	10 33
Apr. 2 HH		eP	19 54 37
Apr. 2 BC		iP	20 25 04
BOZ		eP	20 24 38
BUT		eP	20 24 31
		eL	35 38
COL		iP	20 21 20
		ePP	21 41
		i	22 13
		iS	25 01
		iL	25 43
COLU		iP	20 27 44
EUR		iP	20 24 42
HH		eP	20 24 12
		i	24 14
		ePcP	26 32
RC		iP	20 25 24
SLC		iP	20 24 56
SIT		iP	20 22 07
TUC		iP	20 25 45
		e	28 18
		eL	40 35
Apr. 2 BOZ		eP	20 46 45
COL		iP	20 43 29
EUR		iP	20 46 32
HH		eP	20 46 20
		ePcP	48 38
RC		eP	20 47 31
TUC		eP	20 47 51
Apr. 2 HH		eP	20 55 50
Apr. 2 BC		iP	21 36 03
BOZ		iP	21 35 36
BUT		eP	21 35 27
		eL	46 49
COL		iP	21 32 19
		ePP	32 36
		iS	35 47
		eL	36 59
COLU		iP	21 38 41
EUR		iP	21 35 40
		i	35 49
HH		iP	21 35 11
		eS	41 00
		eL	43 54
		eScS	45 25
RC		iP	21 36 21
SLC		iP	21 35 55
SJ		eP	21 40 18
SIT		iP	21 33 01
		i	33 20
		iS	37 19
		eL	38 03
TUC		iP	21 36 42
		eL	54 36
UK		eP	21 35 05
Apr. 3 BOZ		eP	03 00 53
		i	01 22
EUR		iP	03 01 39
		i	01 44
		iS	02 48
		iL	02 58
HH		eP	03 01 11
		e	01 22
		e	01 57
		eL	02 10
Apr. 3 EUR		iP	04 54 29
HH		eP	04 54 00
TUC		eP	04 55 28
Apr. 3 COL		eP	05 07 34
EUR		iP	05 11 03
TUC		eP	05 12 04
Apr. 3 EUR		iP	05 17 42
Apr. 3 TUC		eP	05 42 51
Apr. 3 HH		eP	06 55 18
RC		eP	06 55 10
		e	55 12
TUC		eP	06 54 32
Apr. 3 HH		eP	07 23 16
TUC		eP	07 22 31
Apr. 3 BC		eP	08 06 38
COL		e(P)	08 02 58
EUR		iP	08 06 19
HH		eP	08 05 50
TUC		eP	08 07 23
		e	07 32
Apr. 3 HH		eP	13 41 45
Apr. 3 COL		eP	15 01 32
EUR		iP	15 05 00
Apr. 3 COL		iP	16 54 20
EUR		iP	16 57 42
HH		eP	16 57 14
RC		eP	16 58 27
Apr. 3 HH		iP	17 16 26
		iS	21 37
HH		eP	17 23 09
Apr. 3 HH		eP	18 06 30
Apr. 3 COL		eP	18 40 10
EUR		iP	18 40 56
		i	40 58
		i	44 20
Apr. 3 COL		eP	20 41 00
		i	41 12
Apr. 3 COL		eP	22 20 00
EUR		iP	22 23 35
		i	23 44
HH		eP	22 23 01
RC		eP	22 24 23
Apr. 3 BC		iP	23 17 44
BOZ		eP	23 17 17
COL		iP	23 13 54
COLU		iP	23 20 18
EUR		iP	23 17 22
		i	17 31
HH		iP	23 16 50
RC		iP	23 17 59
TUC		eP	23 18 22
		e	18 31
Apr. 4 BH		iP	00 24 34
BC		iP	00 19 46
		e(S)	25 56
BOZ		iP	00 19 00
BUT		iP	00 18 51
		eS	23 35
		esS	24 04
		eL	26 27
COL		iP	00 14 56
		i	15 20
		iS	16 40
		iL	16 47

Date and Station		Phase (GCT)
		h m s
COLU	iP	00 22 17
EUR	iP	00 19 18
HONO	eP	00 20 04
HH	iP	00 18 31
	eL	23 49
PHIL	eS	00 29 27
	eL	39 21
RC	iP	00 19 54
	i	20 13
	eS	25 16
	eL	28 32
SLC	iP	00 19 26
SJ	iP	00 24 31
STT	iP	00 15 31
	i	15 36
	iS	17 19
TUC	iP	00 20 28
	eL	32 12
UK	iP	00 18 48
WASH	iP	00 22 08
	eL	42 04
Apr. 4		
EUR	iP	00 25 45
	i	29 44
HH	iP	00 25 28
TUC	eP	00 26 15
Apr. 4		
COL	iP	00 54 38
	i	54 41
EUR	iP	00 58 07
	i	58 18
HH	eP	00 57 36
	ePcP	01 00 27
RC	eP	00 58 51
TUC	eP	00 59 12
Apr. 4		
COL	iP	01 33 22
HH	eP	01 36 18
	ePcP	39 01
RC	eP	01 37 30
TUC	eP	01 37 54
	ePP	39 37
Apr. 4		
BC	eP	02 25 10

Date and Station		Phase (GCT)
		h m s
COL	iP	02 21 17
EUR	iP	02 24 47
	i	24 52
HH	eP	02 24 16
	e	26 18
RC	eP	02 25 24
TUC	eP	02 25 47
Apr. 4		
COL	eP	03 11 32
EUR	iP	03 15 00
HH	eP	03 14 30
Apr. 4		
COL	iP	05 11 11
EUR	iP	05 14 37
HH	eP	05 14 07
RC	eP	05 15 16
TUC	eP	05 15 37
Apr. 4		
COL	iP	06 58 50
EUR	eP	07 02 21
RC	eP	07 02 48
TUC	e(P)	07 03 13
Apr. 4		
BC	eP	07 02 58
BOZ	iP	07 02 31
BUT	eP	07 02 22
COL	iP	06 59 08
	eS	07 04 31
	i	04 51
	eL	11 11
EUR	iP	07 02 38
	i	03 07
HH	iP	07 02 08
RC	iP	07 03 05
TUC	iP	07 03 30
Apr. 4		
HH	eP	07 39 47
Apr. 4		
COL	iP	07 47 56
Apr. 4		
COL	eP	07 51 49

Date and Station		Phase (GCT)
		h m s
EUR	iP	07 51 29
RC	eP	07 52 11
TUC	eP	07 52 36
Apr. 4		
BOZ	eP	09 43 26
	e	43 55
EUR	eP	09 44 09
	i	44 11
	i	44 21
	e(S)	45 17
	iS	45 27
Apr. 4		
HH	eP	10 02 17
Apr. 4		
BH	iP	11 08 54
	iS	15 27
BC	eP	11 12 55
BOZ	eP	11 13 28
BUT	eP	11 13 31
	e	13 59
EUR	iP	11 13 13
	i	13 25
	i	13 39
HH	eP	11 13 43
RC	iP	11 13 08
SLC	eP	11 13 08
TUC	iP	11 12 29
	i	12 54
Apr. 4		
COL	iP	11 48 07
Apr. 4		
BC	eP	14 51 35
BOZ	eP	14 51 07
COL	iP	14 47 45
EUR	iP	14 51 12
	i	51 18
HH	iP	14 50 41
	i	50 52
	ePcP	53 12
	i	53 24
RC	eP	14 51 53
SJ	iP	14 56 16
	i	56 28
TUC	eP	14 52 16

Date and Station		Phase (GCT)
		h m s
Apr. 4		
BOZ	eP	15 44 29
EUR	iP	15 43 29
HH	eP	15 44 55
RC	eP	15 44 18
TUC	e(P)	15 41 51
	e	44 05
Apr. 4		
EUR	iP	16 37 55
HH	eP	16 37 25
Apr. 4		
HH	eP	18 41 27
Apr. 4		
COL	iP	20 44 35
Apr. 5		
EUR	iP	00 06 08
TUC	eP	00 07 45
UK	iP	00 04 54
	e	05 12
Apr. 5		
COL	iP	01 24 24
HH	eP	01 27 21
	e	27 32
Apr. 5		
BH	iP	02 34 19
	eS	35 28
Apr. 5		
BH	iP	03 02 18
	iS	12 37
BC	iP	02 57 44
	i	58 17
	eS	03 04 12
	eL	07 59
BOZ	eP	02 57 15
	e	57 36
	eS	03 03 17
	eL	06 21
BUT	iP	02 57 06
	iPP	58 45
	iS	03 02 59
	eL	06 10
CHI	eS	03 07 06
	eL	16 18
COL	iP	02 53 50
	i	53 57
	i	54 23
	iS	57 25
	iL	58 09

Date and Station		Phase (GCT) h m s
COLU	iP	03 00 20
	iS	03 08 58
	iScS	10 08
	eL	16 38
EUR	iP	02 57 20
	iS	03 03 11
HONO	iP	02 56 14
HH	eP	02 56 49
	iP	56 51
	iPP	58 20
	ePcP	59 14
	iS	03 02 31
	iScS	07 06
	eL	12 11
RC	iP	02 57 59
	ePP	59 47
	eS	03 04 37
	eL	12 12
SLC	iP	02 57 34
	ePP	59 16
	eL	03 07 07
SJ	iP	03 02 19
	eS	12 40
	eSS	18 18
	eL	24 22
SIT	iP	02 54 35
	i	54 39
	i	54 56
	iS	58 37
	eL	03 00 44
TUC	iP	02 58 23
	eL	03 09 24
UK	eP	02 56 45
	eS	03 02 25
	eL	05 29
WASH	eP	03 00 00
	eL	25 40
Apr. 5		
COL	eP	03 25 46
HONO	iP	03 30 05
HH	e(P)	03 27 36
	i	27 40
	e	30 03
RC	eP	03 28 50
TUC	eP	03 29 10
Apr. 5		
COL	iP	03 56 07
HH	eP	03 58 57
	i	59 01
	e	04 01 23
RC	eP	04 00 10

Date and Station		Phase (GCT) h m s
TUC	eP	04 00 32
Apr. 5		
COL	eP	04 49 25
Apr. 5		
HH	eP	05 43 56
Apr. 5		
COL	eP	06 15 54
HH	eP	06 18 45
	i	18 50
	e	21 12
RC	eP	06 20 00
TUC	e(P)	06 20 19
Apr. 5		
COL	iP	06 32 29
Apr. 5		
COL	iP	06 48 37
Apr. 5		
COL	eP	07 16 22
EUR	iP	07 19 41
HH	iP	07 19 14
	e	21 12
TUC	eP	07 20 41
Apr. 5		
HH	iSKS	07 54 37
	iSS	08 03 18
BC	iP	07 42 59D
	ipP	43 21
	eS	53 19
	eP'P'	08 09 03
BOZ	eP	07 43 35D
	epP	43 57
BUT	iP	07 43 31C
	ipP	43 56
	i	44 08
	ePP	47 37
COL	iP	07 43 35C
	ipP	44 03
	iSKS	53 59
	iS	54 33
	ePS	56 16
	eL	08 12 08
EUR	iP	07 43 04
	i	43 15
	iPP	46 20
	iS	53 38
HONO	iP	07 39 42C
HH	eP	07 43 34D
	ipP	43 58
	iPP	47 39

Date and Station		Phase (GCT) h m s
HH	eSKS	07 54 00
	ePKKP	08 00 41
	eP'P'	08 50
RC	iP	07 43 53D
	ePP	48 13
	ePKKP	08 00 26
	eP'P'	08 45
SLC	iP	07 43 20C
	ipP	43 44
SJ	iSKS	07 55 44
	ePS	08 00 20
	eSS	06 23
	eSSS	10 52
	eL	24 40
SIT	iP	07 43 21C
	ipP	43 45
TUC	iP	07 43 01D
	ipP	43 25
	eS	53 20
	e	56 21
	ePKKP	08 01 01
	eP'P'	09 08
	eL	09 31
UK	eP	07 42 43C
	ipP	43 07
Apr. 5		
COL	iP	08 35 45
Apr. 5		
HH	e(P)	11 57 09
	i	57 21
TUC	eP	11 58 51
Apr. 5		
COL	iP	15 11 46
EUR	iP	15 15 04
HH	eP	15 14 37
RC	e(P)	15 14 30
	i	14 43
Apr. 5		
HH	iP	16 14 28
	iL	17 05
BC	iP	16 18 59
BOZ	iP	16 19 39
BUT	eP	16 19 46
COL	iP	16 23 01
	ipP	23 15
COLU	iP	16 17 16
	ipP	17 29
EUR	iP	16 19 23

Date and Station		Phase (GCT) h m s
HH	iP	16 20 06
RC	iP	16 19 02
	e	20 13
SLC	iP	16 19 11
	i	19 23
SJ	iP	16 17 14
	eS	21 12
	eL	23 50
TUC	eP	16 18 16
	eL	27 51
Apr. 5		
HH	eP	16 41 23
Apr. 5		
BC	eP	16 44 54
BOZ	eP	16 44 27
COL	iP	16 41 04
COLU	iP	16 47 25
EUR	iP	16 44 31
	i	44 39
HH	iP	16 44 01
	ePcP	46 04
	e	49 17
RC	iP	16 45 09
TUC	eP	16 45 40
Apr. 5		
EUR	iP	18 54 24
Apr. 5		
HH	eP	20 26 57
Apr. 5		
COL	eP	21 54 39
	iP	54 46
EUR	iP	21 58 06
	i	58 15
Apr. 5		
BC	eP	22 10 59
	e	11 09
COL	iP	22 07 08
COLU	iP	22 13 31
EUR	iP	22 10 35
	i	10 42
HH	iP	22 10 05
RC	iP	22 11 15
TUC	eP	22 11 37

Date and Station		Phase (GCT)
		h m s
Apr. 5		
COL	iP	23 26 38
HH	eP	23 28 46
Apr. 5		
TUC	eP	23 39 56
Apr. 6		
TUC	eP	00 59 17
Apr. 6		
HH	eP	01 01 19
Apr. 6		
BH	eP	02 08 10
Apr. 6		
COL	eP	02 15 53
HH	e(P)	02 13 05
Apr. 6		
COL	eP	06 39 02
Apr. 6		
COL	eP	06 44 50
HH	eP	06 47 47
	e	47 58
RC	eP	06 49 09
TUC	eP	06 49 20
Apr. 6		
BUT	iP	09 41 31
	i	41 40
	i	41 51
Apr. 6		
COL	eP	10 35 16
Apr. 6		
COL	eP	10 51 13
Apr. 6		
COL	iP	13 18 28
Apr. 6		
TUC	eP	13 44 00
	e	45 35
Apr. 6		
EUR	eP	16 23 19
Apr. 6		
EUR	eP	16 54 35
Apr. 6		
EUR	eP	17 19 19
Apr. 6		
EUR	eP	17 32 40
Apr. 6		
BC	eP	18 11 26
	i	12 29

Date and Station		Phase (GCT)
		h m s
COL	eP	18 07 30
HH	eP	18 11 29
RC	eP	18 12 43
	e	13 10
SJ	iP	18 12 07
TUC	eP	18 12 06
	e	13 09
Apr. 6		
RC	e(P)	18 44 10
Apr. 6		
COL	eP	19 50 39
	iP	50 41
HH	eP	19 53 38
Apr. 6		
RC	eP	21 20 14
Apr. 6		
COL	eP	21 47 17
	i	47 25
HH	iP	21 50 07
Apr. 6		
COL	eP	22 35 20
	iP	35 21
HH	eP	22 38 15
Apr. 6		
HH	eP	23 20 59
RC	eP	23 21 48
Apr. 7		
COL	iP	00 43 37
Apr. 7		
HH	eP	03 11 39
Apr. 7		
COL	iP	04 28 55
	i	29 06
HH	e(P)	04 32 06
RC	eP	04 33 10
Apr. 7		
BH	eP	06 18 21
	iS	29 01
Apr. 7		
COL	iP	06 23 34
HH	eP	06 26 32
	e	26 47
RC	eP	06 27 39
TUC	e(P)	06 28 15

Date and Station		Phase (GCT)
		h m s
Apr. 7		
COL	eP	07 01 23
Apr. 7		
COL	eP	07 38 18
	iP	38 26
EUR	iP	07 41 46
HH	iP	07 41 17
TUC	eP	07 42 48
Apr. 7		
COL	iP	08 07 29
	eL	11 14
HH	eP	08 10 26
	ePcP	13 07
RC	eP	08 11 39
TUC	eP	08 12 04
Apr. 7		
BC	ePP	10 32 44
BUT	e(P')	10 31 52
	eSKS	38 58
	eS	40 10
	e(PS)	41 50
	ePPS	42 35
	e	44 20
	e(SS)	48 01
	eL	11 03 15
COL	eP	10 26 43
	iP	26 44
	i	26 53
	i	27 30
	ePP	29 59
	e	32 06
	iS	37 05
	e(PS)	37 44
	e(SS)	42 55
	eL	47 01
COLU	eP'	10 33 32
	i	36 55
	eSKKS	42 33
	eL	11 18 38
HONO	iP	10 25 09
HH	eP	10 28 17
	ePP	32 30
RC	e(PP)	10 32 59
	e(PS)	43 01
SJ	eP'	10 34 02
	iP'	34 13
	ePP	37 32
	ePKS	38 18
	eSKKS	44 34
	e	48 23
	eSS	57 14
	eL	11 12 25

Date and Station		Phase (GCT)
		h m s
WASH	ePP	10 36 48
Apr. 7		
COL	eP	11 45 00
	iP	45 02
	i	45 16
HH	e(P)	11 48 04
Apr. 7		
COL	eP	11 51 58
HH	eP	11 50 38
	e	54 59
Apr. 7		
COL	iP	12 36 47
RC	eP	12 40 52
Apr. 7		
COL	iP	13 18 01
	e(S)	22 09
	eL	24 23
HH	eP	13 20 58
RC	eP	13 22 06
Apr. 7		
COL	eP	14 09 46
HH	eP	14 04 37
Apr. 7		
EUR	eP	16 22 17
Apr. 7		
EUR	eP	17 45 15
RC	eP	17 45 01
	e	45 50
Apr. 7		
COL	eP	19 38 08
Apr. 7		
COL	iP	22 42 45
HH	eP	22 43 26
	e	45 41
	i	45 53
RC	eP	22 46 53
	e	47 06
TUC	eP	22 47 15
	e	47 27
Apr. 8		
BC	eP	00 14 55
	i	17 38
BOZ	eP	00 14 30
BUT	e(P)	00 14 28
	i	15 08

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Date and Station		Phase	(GCT)
			h m s
COL		eP	00 11 06
		i	11 18
		i	11 38
		e(S)	14 51
		eL	16 28
COLU		eP	00 17 30
		iPcP	18 05
EUR		iP	00 14 37
		i	15 05
		i	15 25
HH		iP	00 14 02
		e	18 46
RC		eP	00 15 13
		e	15 50
SLC		eP	00 14 59
TUC		eP	00 15 34
		i	18 16
Apr. 8			
BC		e	00 57 15
		eP	57 29
COL		iP	00 53 27
EUR		iP	00 56 54
HH		eP	00 56 22
		e	56 36
RC		eP	00 57 31
TUC		eP	00 58 07
Apr. 8			
BC		eP	01 20 59
COL		iP	01 17 10
EUR		iP	01 20 37
		ePP	22 45
HH		eP	01 20 06
RC		eP	01 21 15
TUC		eP	01 21 37
Apr. 8			
COL		eP	02 21 43
EUR		eP	02 25 11
HH		eP	02 24 40
RC		eP	02 25 50
TUC		eP	02 26 11
Apr. 8			
COL		iP	03 07 42
Apr. 8			
COL		eP	03 31 31
HH		eP	03 34 30
RC		eP	03 35 42
TUC		eP	03 36 18
Apr. 8			
COL		iP	04 07 18
Apr. 8			
COL		iP	04 16 21
Apr. 8			
COL		eP	06 19 39
Apr. 8			
EUR		e(P)	07 25 30
Apr. 8			
EUR		iP	08 41 29
HH		eP	08 52 38
RC		eP	08 53 49
TUC		e(P)	08 54 09
Apr. 8			
COL		eP	09 23 26
		iP	23 37
EUR		iP	09 26 58
HH		iP	09 26 26
		e	28 56
TUC		eP	09 28 02
Apr. 8			
BC		eP	11 08 45
COL		iP	11 05 03
EUR		iP	11 08 22
HH		e(P)	11 07 51
		e	07 58
		e	10 17
RC		eP	11 09 02
		e	09 16
TUC		eP	11 09 24
Apr. 8			
BC		eP	12 57 04
COL		iP	12 53 21
EUR		iP	12 57 41
HH		eP	12 56 12
TUC		eP	12 57 49
		e	57 54
Apr. 8			
COL		eP	13 01 00
Apr. 8			
COL		eP	14 17 20
TUC		eP	14 21 52
Apr. 8			
BC		eP	16 42 10
COL		eP	16 38 18
		i	38 28
EUR		iP	16 41 47
		iPcP	43 55
		iS	47 39
HH		iP	16 41 17
		iPcP	43 45
TUC		eP	16 42 50
Apr. 8			
TUC		eP	19 42 33
		e	42 49
Apr. 8			
EUR		iP	19 58 25
HH		eP	19 57 55
Apr. 8			
BH		iP	20 19 03
		iS	19 48
BC		i(P)	20 25 51
BOZ		iP	20 26 24
BUT		eP	20 26 30
		e(PP)	28 34
		eSS	36 30
		eL	37 08
COL		iP	20 29 34
COLU		ip	20 23 43
EUR		iP	20 26 13
HH		iP	20 26 49
		e	33 48
PHIL		e(P)	20 24 51
		ePP	25 52
		eS	30 02
		eL	31 54
SLC		iP	20 25 59
SJ		iP	20 22 31
		i	23 15
		i	23 56
		eS	26 16
		eL	27 58
TUC		iP	20 25 09
		eL	33 10
UK		eP	20 26 49
WASH		e(P)	20 24 35
		eS	29 36
Apr. 8			
BC		eP	20 51 54
COL		iP	20 47 45
		i	48 18
		e(S)	51 56
		eL	53 05
EUR		iP	20 51 13
		i	51 32
HH		iP	20 50 42
		i	51 01
Apr. 8			
SLC		eP	22 55 49
Apr. 8			
COL		iP	23 30 40
		i	30 51
		i	34 06
HH		iP	23 33 36
		i	35 43
		i	37 03
TUC		eP	23 35 08
		e	38 34
Apr. 9			
BC		iP	00 36 21
		i	36 46
BOZ		iP	00 36 14
BUT		iP	00 36 06
		ipP	37 46
		ePP	39 26
		iS	45 37
		e	47 31
		esS	48 34
		e	01 01 05
COL		eP	00 33 36
		iP	33 38
		ePcP	34 08
		epP	35 07
		iS	40 47
		iScS	42 40
		isS	43 29
		i	45 47
		iL	47 14
EUR		iP	00 36 15
		ipP	37 55
		iPP	39 29
		eS	45 48
		iPKKP	54 41
		eSKPP'	01 05 06
		iSKPP'	05 16
HH		iP	00 35 56
		e	36 52
		iS	45 16
		iScS	45 28

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Date and Station		Phase (GCT)
		h m s
PHIL	eP'	00 42 18
	e	47 48
	e(S)	51 03
	e	53 42
	e(SSS)	01 02 26
	eL	07 57
SLC	iP	00 36 25
SJ	eP'	00 42 53
	epP'	44 39
SIT	eP	00 34 25
	iP	34 26
	epP	35 54
	isP	36 28
	iPP	36 45
	i(pPPP)	39 32
	eS	42 24
	i(ScS)	43 34
TUC	eP	00 36 51
	iP	36 53
	epP	38 33
	esP	39 16
	iPP	40 30
	epPP	41 54
	iSKS	46 44
	eL	01 00 22
UK	iP	00 35 51
Apr. 9		
COL	iP	01 03 26
	e	03 58
Apr. 9		
HH	e(P)	01 23 55
Apr. 9		
BC	iP	02 29 43
BOZ	iP	02 29 36
BUT	eP	02 29 29
	e	31 18
COL	iP	02 27 14
EUR	iP	02 29 32
HH	iP	02 29 21
SLC	iP	02 29 44
SIT	iP	02 27 54
TUC	iP	02 30 06
	eL	58 07
UK	eP	02 29 04
Apr. 9		
COL	iP	03 28 08
HH	eP	03 30 57
TUC	eP	03 32 30

Date and Station		Phase (GCT)
		h m s
Apr. 9		
COL	eP	04 52 48
Apr. 9		
TUC	e(P)	05 11 50
	e	11 58
Apr. 9		
COL	eP	07 12 27
EUR	eP	07 15 55
HH	eP	07 15 23
Apr. 9		
COL	eP	07 43 19
EUR	iP	07 46 52
	i	47 03
HH	eP	07 46 21
	e	49 01
SIT	eP	07 44 04
TUC	eP	07 47 57
Apr. 9		
TUC	eP	08 13 54
Apr. 9		
EUR	iP	08 57 59
HH	eP	08 57 23
TUC	eP	08 59 00
Apr. 9		
BC	iP	10 08 02
	e	08 13
BOZ	eP	10 07 34
BUT	eP	10 07 26
COL	eP	10 04 10
	iP	04 11
EUR	iP	10 07 40
	i	07 50
HH	iP	10 07 08
	i	07 20
	e(PcP)	09 24
SLC	eP	10 07 54
SJ	iP	10 12 24
	i	12 36
TUC	iP	10 08 40
	i	08 51

Date and Station		Phase (GCT)
		h m s
Apr. 9		
BC	iP	10 47 19
BOZ	eP	10 47 04
BUT	eP	10 46 57
COL	iP	10 44 26
EUR	iP	10 47 06
	epP	48 46
	i	50 21
HH	iP	10 46 46
	eS	56 19
TUC	eP	10 47 42
Apr. 9		
TUC	e(P)	10 51 17
Apr. 9		
BC	iP	11 10 48
BOZ	iP	11 10 20
BUT	iP	11 10 11
	ePP	12 00
	iScP	15 58
	eS	16 37
	eScS	20 19
	eL	22 03
COL	iP	11 06 58
	i	08 27
	e(PcP)	09 14
	iS	10 56
	iL	12 34
	i	17 23
COLU	iP	11 13 19
EUR	iP	11 10 24
	i	11 21
	iPP	12 08
	eS	17 02
HH	iP	11 09 54
	e(PcP)	12 05
	eS	15 50
	iScS	20 04
SLC	iP	11 10 39
SJ	iP	11 15 09
SIT	iP	11 07 46
	i	08 00
	ePP	08 28
	iPP	08 32
	e(S)	12 17
	i	12 34
	iL	13 48
	iScP	14 58
TUC	iP	11 11 25
	ePP	13 42
	eL	22 53

Date and Station		Phase (GCT)
		h m s
UK	eP	11 09 54
Apr. 9		
BOZ	eP	12 59 05
HH	iP	12 58 47
	eS	59 32
	iL	59 46
Apr. 9		
COL	eP	13 06 34
	i	06 49
HH	e(P)	13 04 49
TUC	eP	13 06 22
	e	11 02
Apr. 9		
BC	eP	13 43 17
COL	eP	13 38 36
HH	eP	13 41 28
Apr. 9		
BOZ	eP	14 19 51
COL	eP	14 16 27
	iP	16 29
	i	16 43
EUR	iP	14 19 57
HH	iP	14 19 26
TUC	eP	14 20 56
Apr. 9		
BC	iP	14 37 33
BOZ	iP	14 37 06
COL	eP	14 33 41
	iP	33 43
EUR	iP	14 37 12
HH	eP	14 36 40
TUC	eP	14 38 11
Apr. 9		
COL	eP	14 37 29
Apr. 9		
COL	iP	17 14 33
Apr. 9		
BC	eP	17 48 51
BOZ	eP	17 48 23
COL	iP	17 45 01
	e	45 58
	iS	49 01
	eL	50 09

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Date and Station		Phase (GCT)
		h m s
EUR	iP	17 48 30
HH	iP	17 47 58
	e(PcP)	50 02
	eS	53 52
SLC	eP	17 48 43
SJ	iP	17 53 12
TUC	eP	17 49 29
UK	eP	17 47 55
Apr. 9		
COL	iP	20 23 02
	i	23 15
EUR	iP	20 26 30
HH	eP	20 25 59
Apr. 9		
BC	eP	20 31 43
BOZ	eP	20 31 13
BUT	eP	20 31 06
	eS	36 35
	eL	39 42
COL	eP	20 27 49
	iP	27 50
	e	28 25
	eS	31 08
	eL	31 50
COLU	i(P)	20 34 33
EUR	iP	20 31 20
	i	31 33
HONO	iP	20 30 24
HH	iP	20 30 48
	ePcP	33 21
	eS	36 17
SJ	iP	20 36 24
	iS	46 46
	eScS	47 26
	eSS	52 33
	eL	59 15
SIT	eP	20 28 31
	iP	28 32
	eS	32 13
	iS	32 16
	iL	32 39
TUC	iP	20 32 23
	ePcP	33 30
	ePP	34 15
	eS	39 09
	eL	48 28
UK	eP	20 30 43

Date and Station		Phase (GCT)
		h m s
Apr. 9		
COL	eP	21 16 47
Apr. 9		
COL	iP	21 57 03
HH	eP	21 59 54
Apr. 9		
COL	iP	22 26 10
HH	eP	22 27 28
SJ	iP	22 32 19
Apr. 9		
COL	iP	22 38 34
EUR	eP	22 41 59
HH	eP	22 41 30
	i	41 40
	e	43 40
TUC	eP	22 43 25
Apr. 9		
BC	eP	22 58 14
	e	58 24
BOZ	iP	22 57 47
COL	eP	22 54 22
	iP	54 24
	i	54 35
	eS	58 21
	eL	59 35
COLU	iP	23 00 44
EUR	eP	22 57 48
	iP	57 51
HH	iP	22 57 20
	ePcP	59 28
SJ	iP	23 02 35
TUC	eP	22 58 52
Apr. 10		
COL	iP	00 31 32
EUR	iP	00 34 59
HH	eP	00 34 28
	e	36 38
TUC	eP	00 35 58
Apr. 10		
COL	iP	01 44 17
EUR	iP	01 47 45
TUC	eP	01 48 45
Apr. 10		
BC	eP	03 33 01

Date and Station		Phase (GCT)
		h m s
BC	iP	03 33 16
BOZ	eP	03 32 31
COL	iP	03 29 02
	i	31 11
	iS	31 49
	eL	32 06
	iL	32 13
COLU	iP	03 35 40
EUR	iP	03 32 37
HH	iP	03 32 04
	iPcP	34 43
	eS	37 25
	eScS	42 25
RC	iP	03 33 16
	e(S)	39 00
	eL	04 01 36
SLC	iP	03 32 51
SJ	iP	03 37 43
	e(S)	48 53
SIT	iP	03 29 45
	e	30 24
	i	30 45
	iS	33 20
	eL	34 12
TUC	iP	03 33 41
	e	33 56
	eL	43 05
UK	eP	03 32 02
Apr. 10		
HH	eP	04 00 25
	e	02 51
TUC	eP	04 01 58
Apr. 10		
HH	eP	04 15 58
RC	e(P)	04 17 18
Apr. 10		
TUC	eP	04 58 41
	e	58 54
Apr. 10		
HH	eP	05 12 10
Apr. 10		
BH	iP	05 16 35
	iS	20 21
BC	iP	05 17 38D
	eS	22 25
	eL	25 26
BOZ	eP	05 18 37
	iS	23 54
	eL	29 02

Date and Station		Phase (GCT)
		h m s
BUT	eP	05 18 44
	eS	24 00
	eL	26 10
CHI	eP	05 18 01
	iS	22 43
	eL	28 39
COL	iP	05 22 12D
	i	22 24
	i(PcP)	23 20
	ePP	24 22
	iPP	24 27
	eS	30 18
	eScS	32 01
	eL	36 58
COLU	iP	05 17 23C
	i	17 39
	iPP	18 00
	i	19 08
	iS	21 42
	eL	22 23
	iL	22 35
EUR	iP	05 18 06D
	i(S)	22 12
	eL	24 10
HONO	iP	05 21 54C
HH	iP	05 19 05D
	iS	24 43
	eL	30 52
PHIL	eP	05 18 34
	iS	23 45
	eL	26 40
RC	iP	05 18 09D
	iS	23 06
	eL	27 07
SLC	iP	05 18 01
	i	18 19
	e(S)	22 55
	eL	26 55
SJ	iP	05 18 22C
	ePP	19 12
	iS	23 28
	iL	25 02
SIT	eP	05 21 05
	iS	28 23
	eL	32 11
TUC	iP	05 16 48D
	iS	20 38
	iL	22 33
UK	iP	05 18 39D
	e(S)	24 04
	eL	24 41
Apr. 10		
HH	eP	06 39 35

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Date and Station		Phase (GCT)
		h m s
Apr. 10		
BH	iP	07 31 08
BC	e(P)	07 34 17
COL	iP	07 38 37
	iPcP	39 10
COLU	iP	07 33 02
EUR	iP	07 34 44
HH	eP	07 35 32
	ePcP	37 38
RC	e(P)	07 34 28
SLC	eP	07 34 32
TUC	eP	07 33 33
	iL	43 58
Apr. 10		
HH	eP	08 19 44
Apr. 10		
BC	iP	09 17 46
BOZ	iP	09 17 22
BUT	eP	09 17 11
	eL	29 08
COL	eP	09 14 03
	iP	14 07
	e	14 41
	e	15 41
	iS	18 00
	eL	18 34
COLU	iP	09 20 21
	i	20 37
	i	21 04
EUR	iP	09 17 23
	i	17 26
HH	iP	09 16 56
	eS	23 02
	eScS	27 21
RC	iP	09 18 04
	eS	25 18
SLC	iP	09 17 40
	ePP	19 12
SJ	iP	09 22 06
SIT	eP	09 14 44
	iP	14 47
	e	16 03
	eS	19 13
	iS	19 15
	iL	20 29
TUC	iP	09 18 24
UK	iP	09 16 47

Date and Station		Phase (GCT)
		h m s
Apr. 10		
COL	eP	10 01 16
Apr. 10		
EUR	iP	10 21 46
HH	eP	10 21 15
TUC	eP	10 22 50
Apr. 10		
HH	eP	10 54 06
RC	eP	10 55 14
Apr. 10		
BH	iP	11 41 35
	iS	51 04
BC	eP	11 36 36D
	e(S)	42 02
	eL	44 05
BOZ	eP	11 35 58D
BUT	eP	11 35 47D
	ePcP	38 02
	e	39 36
	iS	40 49
	iL	41 36
CHI	ePP	11 39 11
	ePPP	40 27
	eS	44 39
	eL	48 03
COL	iP	11 32 17C
COLU	iP	11 39 21
	i	39 42
	ePcP	40 24
	ePP	41 40
	ePPP	42 27
	i(ScP)	43 42
	iS	46 50
	i	47 39
	iScS	49 04
	iSS	50 14
	iL	51 47
EUR	iP	11 36 09C
HONO	iP	11 36 52C
	eS	42 26
	eL	44 34
	iT	12 12 54
T_S=6 sec. A = 3.5mm.		
T_L=4 sec. $A_{max.}$=37.5mm.		
HH	iP	11 35 28
	eS	39 59
	eL	43 49
	i(P'P')	12 07 58
PHIL	eP	11 39 27
	e(PcS)	43 28
	iS	46 36
	eSS	50 24

Date and Station		Phase (GCT)
		h m s
PHIL	eL	11 54 09
RC	iP	11 36 43C
	i	36 48
	e(PP)	38 09
	iS	42 09
	eL	43 03
	eP'P'	12 09 14
SLC	eP	11 36 21D
	eS	41 19
	eL	45 27
SJ	iP	11 41 34C
	iPcP	42 03
	i	43 48
	iPP	44 23
	e(PPP)	46 23
	iS	51 00
	iSS	55 59
	eL	59 19
SIT	iP	11 32 30D
	iS	34 20
	iL	35 56
TUC	iP	11 37 20D
	ePcP	39 20
	eS	43 14
	iS	43 23
	iL	46 33
	eP'P'	12 09 35
	iP'P'	10 14
UK	iP	11 35 37D
	eS	40 13
	iS	40 16
	iL	42 07
WASH	iP	11 39 10
	eS	46 44
	eL	52 56
Apr. 10		
BC	iP	13 01 47
COL	iP	12 57 24
HH	iP	13 00 38
	e	04 08
RC	eP	13 01 53
TUC	eP	13 02 30
Apr. 10		
BC	eP	13 28 39
BOZ	iP	13 28 11
BUT	eP	13 28 02
	i(PP)	30 01
COL	iP	13 24 48
EUR	iP	13 28 06
HH	iP	13 27 46
	i	29 56

Date and Station		Phase (GCT)
		h m s
HH	eS	13 33 39
RC	iP	13 28 54
SLC	eP	13 28 31
	iPcP	29 44
SIT	eP	13 25 35
	i	25 52
TUC	iP	13 29 17
	e	29 30
Apr. 10		
BC	eP	13 50 04
COL	eP	13 45 43
Apr. 10		
BC	eP	13 55 27
BUT	eP	13 56 09
COL	iP	13 56 05
EUR	iP	13 55 36
HH	eP	13 56 07
SLC	iP	13 55 51
SIT	eP	13 56 10
	iPP	59 33
TUC	eP	13 55 40
UK	e(P)	13 55 14
Apr. 10		
HONO	iP	14 02 10
HH	iP	14 01 41
TUC	eP	14 03 09
Apr. 10		
COL	iP	14 40 12
Apr. 10		
EUR	eP	16 05 45
	i	06 12
Apr. 10		
COL	iP	17 40 56
EUR	iP	17 45 46
Apr. 10		
BC	eP	18 58 02
Apr. 10		
COL	iP	21 47 06
Apr. 10		
COL	eP	20 22 15
HH	eP	20 25 25
	i	30 56

Date and Station		Phase	(GCT) h m s
Apr. 10			
COL		iP	23 19 13
EUR		eP	23 15 18
HH		e(P)	23 16 09
TUC		eP	23 14 05
Apr. 10			
COL		eP	23 58 41
Apr. 11			
EUR		iP	00 02 09
HH		eP	00 03 40
TUC		eP	00 03 09
Apr. 11			
EUR		eP	00 06 45
HH		eP	00 06 14
		i	08 42
TUC		eP	00 07 49
Apr. 11			
EUR		iP	00 34 56
SLC		eP	00 32 44
		e	32 32
Apr. 11			
RC		eP	01 22 03
BOZ		eP	01 22 47
BUT		eP	01 22 41
EUR		eP	01 22 03
		i	22 09
HH		eP	01 22 43
		e	24 31
RC		eP	01 23 08
SLC		eP	01 22 31
TUC		eP	01 22 09
Apr. 11			
BC		eP	01 53 53
COL		iP	01 49 54
		eS	55 19
		eL	56 48
EUR		eP	01 53 26
		i	53 37
HH		eP	01 52 52
TUC		eP	01 54 26
Apr. 11			
COL		iP	02 27 02

Date and Station		Phase	(GCT) h m s
Apr. 11			
HH		iP	04 01 52
Apr. 11			
BC		eP	06 56 12
BUT		eP	06 56 48
COL		iP	06 56 49
EUR		iP	06 56 20
HH		eP	06 56 54
RC		eP	06 57 15
TUC		eP	06 56 17
Apr. 11			
BC		eP	07 06 16
BUT		eP	07 05 26
COL		eP	07 01 53
EUR		iP	07 05 47
HH		eP	07 05 06
RC		iP	07 06 23
TUC		eP	07 06 59
Apr. 11			
BC		eP	10 16 14
COL		iP	10 12 17
EUR		iP	10 15 48
TUC		eP	10 16 54
Apr. 11			
BC		e(P)	10 26 05
BUT		eP	10 26 42
COL		eP	10 26 42
		iP	26 43
TUC		eP	10 26 12
Apr. 11			
COL		eP	10 46 56
Apr. 11			
COL		iP	14 32 29
		ipP	32 54
Apr. 11			
COL		iP	16 16 06
EUR		iP	16 19 33
HH		eP	16 19 02
RC		eP	16 20 24
SIT		eP	16 16 44

Date and Station		Phase	(GCT) h m s
Apr. 11			
EUR		iP	16 49 53
HH		eP	16 49 23
Apr. 11			
BC		eP	17 48 22
		e	48 56
BOZ		eP	17 47 52
COL		eP	17 44 29
		iP	44 30
		e(S)	47 41
		eL	48 46
COLU		e(P)	17 51 09
EUR		iP	17 47 57
HH		iP	17 47 27
RC		eP	17 48 39
SJ		iP	17 53 06
SIT		iP	17 45 10
		i	45 41
		iS	48 49
		iPcP	50 24
		eL	52 06
TUC		eP	17 49 02
UK		eP	17 47 21
Apr. 11			
HH		eP	20 52 35
Apr. 11			
SLC		iP	22 39 26
Apr. 12			
COL		iP	00 00 19
Apr. 12			
COL		iP	00 50 05
Apr. 12			
BC		iP	04 26 20
BOZ		iP	04 25 52
BUT		iP	04 25 44
COL		eP	04 22 28
		i	22 30
		i	23 36
		i(S)	26 31
		iL	28 22
COLU		iP	04 28 51
EUR		iP	04 25 59
HH		iP	04 25 27
		e	27 30
		eS	31 19
		eL	35 41

Date and Station		Phase	(GCT) h m s
RC		iP	04 26 36
		e(S)	32 30
		eS	33 42
SLC		iP	04 26 11
SJ		iP	04 30 44
TUC		iP	04 26 58
UK		eP	04 25 23
Apr. 12			
EUR		iP	04 31 53
TUC		eP	04 32 53
Apr. 12			
COL		eP	05 41 35
EUR		iP	05 45 02
HH		eP	05 44 31
		e	47 35
RC		eP	05 45 39
TUC		eP	05 46 02
Apr. 12			
EUR		eP	06 04 49
Apr. 12			
COL		eP	06 49 34
Apr. 12			
BC		iP	06 57 35
BOZ		eP	06 57 08
COL		iP	06 53 45
COLU		eP	07 00 05
EUR		iP	06 57 13
HH		iP	06 56 42
		e	58 45
		i	59 49
RC		iP	06 57 55
SLC		iP	06 57 26
TUC		iP	06 58 13
		ePPP	07 01 18
Apr. 12			
EUR		iP	07 38 01
HH		eP	07 37 32
RC		eP	07 38 40
TUC		eP	07 39 03
Apr. 12			
COL		iP	09 18 08

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Date and Station		Phase (GCT)
		h m s
Apr. 12		
COL	iP	09 45 43
Apr. 12		
COL	iP	10 56 06
EUR	eP	10 59 42
HH	eP	10 59 02
RC	eP	11 00 14
TUC	eP	11 00 37
Apr. 12		
COL	iP	11 38 27
Apr. 12		
COL	eP	12 00 32
Apr. 12		
BC	eP	13 11 53
BOZ	eP	13 11 26
BUT	eP	13 11 17
COL	eP	13 08 01
	iP	08 10
EUR	iP	13 11 31
HH	iP	13 11 00
RC	iP	13 12 09
TUC	eP	13 12 32
Apr. 12		
COL	eP	13 52 45
EUR	iP	13 56 12
RC	eP	13 56 49
TUC	eP	13 57 12
Apr. 12		
COL	iP	14 31 14
	i	31 23
EUR	iP	14 34 41
HH	iP	14 34 11
RC	eP	14 35 19
SJ	iP	14 39 26
TUC	eP	14 35 42
Apr. 12		
COL	eP	14 52 12
Apr. 12		
COL	eP	15 01 22
Apr. 12		
COL	eP	15 01 22

Date and Station		Phase (GCT)
		h m s
Apr. 12		
COL	eP	18 42 50
EUR	iP	18 24 34
Apr. 12		
COL	iP	18 58 25
Apr. 12		
COL	iP	19 17 09
HH	eP	19 20 00
	e	25 23
Apr. 12		
COL	iP	19 22 30
	i	22 44
Apr. 12		
COL	iP	20 04 28
EUR	eP	20 07 55
HH	iP	20 07 19
Apr. 12		
HH	e(P)	20 43 08
RC	eP	20 43 13
Apr. 12		
COL	eP	21 03 16
EUR	iP	21 06 36
HH	iP	21 06 03
	e	08 11
RC	eP	21 07 17
TUC	eP	21 13 11
Apr. 12		
HH	eP	21 24 49
	e	25 16
Apr. 13		
COL	iP	02 41 06
EUR	iP	02 39 41
	i	[illegible]
HH	eP	02 [illegible] 59
RC	eP	02 40 52
SLC	eP	02 40 08
TUC	eP	02 41 22
	e	43 23
Apr. 13		
RC	eP	03 47 51
BOZ	eP	03 47 00
	e	47 13
	eS	49 29
	eL	51 25

Date and Station		Phase (GCT)
		h m s
BUT	eP	03 46 42
	e(S)	49 00
	iL	49 46
COL	eP	03 48 30
	iS	52 15
	iL	52 55
COLU	eP	03 51 20
	eL	04 03 08
EUR	iP	03 47 05
HH	eP	03 46 19
	e(S)	47 51
	eL	48 22
RC	iP	03 48 14
	e(S)	51 22
	iS	52 04
	eL	54 54
SLC	eP	03 47 23
	e(S)	50 06
	eL	50 46
SIT	e(P)	03 46 29
	eS	48 12
	eL	48 20
TUC	eP	03 48 46
	iS	52 48
	eL	56 22
UK	iP	03 46 25
	eS	48 19
	eL	49 37
Apr. 13		
RC	eP	05 21 19
BOZ	eP	05 20 49
BUT	e(P)	05 20 52
COL	eP	05 17 22
	iP	17 25
EUR	iP	05 20 53
	i	21 04
HH	eP	05 20 20
	eleP	22 [illegible]
RC	eP	05 21 34
SLC	eP	05 21 06
SJ	iP	05 26 00
SIT	eP	05 18 05
TUC	eP	05 21 58
Apr. 13		
COL	iP	06 42 32
EUR	eP	06 44 39
	ePP	48 21

Date and Station		Phase (GCT)
		h m s
HH	eP	06 44 24
RC	eP'	06 48 29
Apr. 13		
COL	iP	07 02 33
EUR	iP	07 00 14
TUC	e(P)	06 59 44
Apr. 13		
HH	eP	07 30 03
Apr. 13		
BC	eP	08 07 06
COL	eP	08 03 10
	i	03 13
	i	03 42
EUR	eP	08 06 40
HH	eP	08 06 08
	e	08 44
RC	eP	08 07 24
SIT	iP	08 03 53
TUC	eP	08 07 46
Apr. 13		
COL	eP	08 20 02
HH	eP	08 22 54
Apr. 13		
BC	epP	10 29 31
COL	eP	10 23 15
	i	23 18
	i	23 40
EUR	ePP	10 29 22
HH	eP	10 25 23
	e(P')	28 52
RC	eP'	10 29 48
	e	40 21
SJ	eP'	10 31 04
TUC	e(PP)	10 30 01
	e	40 21
Apr. 13		
EUR	iP	11 57 42
TUC	eP	11 57 48
Apr. 13		
RC	eP	12 49 29
Apr. 13		
EUR	eP	13 40 02

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Date and Station		Phase	(GCT)
			h m s
RC		eP	14 11 25
Apr. 13			
BC		iP	15 50 43
BOZ		eP	15 51 13
BUT		eP	15 51 16
EUR		iP	15 51 01
		ipP	51 35
HH		iP	15 51 31
		epP	51 59
RC		iP	15 50 44
		epP	51 12
SLC		eP	15 50 52
SJ		iP	15 46 44
		i(PP)	48 35
		eS	52 17
		iS	52 26
		ePcS	52 45
		eL	55 39
TUC		eP	15 50 11
		e(pP)	50 48
Apr. 13			
COL		iP	16 26 12
EUR		iP	16 29 26
HH		iP	16 28 58
RC		eP	16 29 48
Apr. 13			
EUR		iP	16 43 50
HH		eP	16 44 52
RC		e(P)	16 43 49
Apr. 13			
COL		iP	19 16 50
Apr. 13			
COL		eP	22 10 29
		i	10 39
		i	10 49
		i	11 13
EUR		iP	22 10 52
		i	11 02
HH		eP	22 10 42
		i	10 52
		e	13 22
RC		eP	22 10 41
		e	14 31
Apr. 13			
SLC		eP	22 35 48

Date and Station		Phase	(GCT)
			h m s
Apr. 14			
BC		iP	01 06 03
		eL	08 58
COL		iP	01 08 29
EUR		iP	01 06 51
		i	07 01
		eL	10 44
HH		iP	01 08 29
RC		eP	01 07 54
		eL	13 58
TUC		eP	01 04 58
		e(S)	05 35
		iL	06 32
Apr. 14			
HH		eP	01 42 49
Apr. 14			
BH		iP'	07 31 18
BC		ePP	07 31 17
BUT		eSKS	07 36 30
		eS	37 12
		ePS	39 05
		eSS	44 34
		eL	08 01 00
COL		eP	07 23 44
		iP	23 46
		iPP	26 40
		iS	33 28
		eSS	38 11
		eL	44 50
EUR		eP'	07 29 37
		e	30 12
HH		eP	07 25 46
		iPP	29 50
PHIL		eSKS	07 36 54
		e	44 09
		eL	08 02 09
RC		eP'	07 30 06
		eL	08 03 45
SLC		eP'	07 29 50
SIT		iP	07 24 41
		ePP	28 01
		iS	35 03
		eL	39 52
TUC		eP'	07 30 42
Apr. 14			
EUR		iP	07 41 53
HH		eP	07 42 28
TUC		eP	07 41 12
		e	45 08

Date and Station		Phase	(GCT)
			h m s
TUC		eL	08 09 19
Apr. 14			
BH		iP	08 27 55
BC		eP	08 32 31
BUT		eP	08 32 43
COL		iP	08 35 38
COLU		eP	08 28 33
		i	28 41
EUR		iP	08 32 46
HH		iP	08 32 59
RC		iP	08 31 45
SJ		eP	08 26 34
		i	26 59
TUC		eP	08 32 01
Apr. 14			
EUR		eP	09 12 03
HH		eP	09 11 27
TUC		eP	09 13 01
Apr. 14			
COL		iP	09 36 13
EUR		iP	09 37 20
HH		eP	09 37 26
SJ		iP	09 43 15
Apr. 14			
EUR		eP	11 14 33
Apr. 14			
COL		iP	11 52 04
		i	52 18
HH		eP	11 56 01
		e	58 07
RC		eP	11 57 09
TUC		eP	11 57 32
Apr. 14			
COL		iP	12 44 09
EUR		iP	12 45 12
HH		iP	12 45 18
SJ		iP'	12 51 18
Apr. 14			
HH		eP	13 36 11
RC		e(P)	13 36 31

Date and Station		Phase	(GCT)
			h m s
Apr. 14			
EUR		eP	14 08 05
Apr. 14			
TUC		eP	16 04 33
Apr. 14			
COL		iP	16 48 48
HH		eP	16 46 22
RC		eP	16 47 49
TUC		e(P)	16 47 53
		e	48 12
Apr. 14			
BH		iP	19 31 30
		iS	42 51
BC		iP	19 29 48C
		eS	39 24
		eL	47 59
BOZ		iP	19 30 26D
		e	31 19
		ePP	33 39
		eS	40 39
		ePPS	41 31
		eSS	45 59
		eL	53 39
BUT		eP	19 30 20C
		iPP	33 30
		e	33 49
		e(PPP)	35 09
		eS	40 33
		eScS	40 58
		e	42 26
		e	45 00
		eL	52 24
CHI		iSKS	19 42 03
		ePS	44 07
		eL	20 02 01
COL		iP	19 30 19D
		i	30 23
		iPP	33 30
		ePPP	35 38
		iS	40 31
		iScS	41 18
		eSS	46 42
		ePKKP	48 20
		eSSS	49 14
		eL	51 15
		iP'P'	56 51
		eP'P'P'	20 17 10
COLU		eP	19 31 48
		iPPP	35 11
		i	35 55
		eSKS	42 11
		iSKS	42 27
		iSKKS	42 48
		iS	43 19
		iPS	44 53
		eSSS	48 38
		eL	54 18

Date and Station		Phase (GCT)
		h m s
EUR	eP	19 29 49D
	iP	29 50C
	e(PP)	33 04
	eS	39 34
	eL	49 05
	eP'P'	57 11
HONO	iP	19 25 32D
	iS	31 36
	iL	35 20
Tp=06 sec. A=3.5mm.		
Ts=14 sec. A=5.0mm.		
T_L=20 sec. $A_{max.}$=25.0mm.		
HH	eP	19 30 22C
	iP	30 24D
	ePP	33 50
	iS	40 36
	eScS	41 19
	ePKKP	48 45
	iP'P'	56 58
PHIL	ePP	19 36 34
	iPP	36 37
	iSKS	42 55
	iPS	45 49
	ePPS	47 10
	iSS	51 37
	eSSS	55 42
	eL	20 02 46
RC	iP	19 30 47C
	ePP	34 23
	iS	41 13
	iScS	41 51
	eSS	47 07
	ePKKP	47 54
	eL	53 37
	eP'P'	56 51
	iL	58 25
SLC	iP	19 30 10D
	eS	40 07
	eL	54 07
SJ	eP	19 32 43
	eP'	36 20
	iPP	37 08
	i	38 09
	e	39 20
	iSKS	43 10
	iSKKS	43 35
	iS	44 42
	iPS	46 40
	iSS	52 20
	eSSS	56 47
	iL	20 03 02
SIT	eP	19 30 04D
	iP	30 06C
	i	30 34
	i	30 48
	iS	40 01
	eL	49 42
TUC	eP	19 29 50D
	iP	29 53
	ePP	32 40

Date and Station		Phase (GCT)
		h m s
TUC	e	19 33 10
	eS	39 30
	iS	39 38
	eL	50 34
	iL	52 32
	eP'P'	57 13
UK	iP	19 29 24D
	iS	38 46
	eL	47 22
WASH	iP'	19 35 43
	eS	45 31
	eL	54 07
Apr. 14		
BOZ	iP	20 21 16
BUT	eP	20 21 11
COL	iP	20 21 12
EUR	iP'	20 20 43
HH	iP	20 21 13
TUC	iP	20 20 42
Apr. 14		
COL	eP	20 49 21
HH	iP	20 52 17
	e	54 43
	e	58 26
Apr. 14		
HH	iP	21 11 56
BC	iP	21 07 37
BUT	iP	21 07 02
	iPP	08 44
COL	iP	21 03 55
COLU	iP	21 10 09
	i	10 27
EUR	iP	21 07 14
HONO	iP	21 05 40
HH	iP	21 06 47
	iPcP	08 46
	eS	12 36
	e(ScS)	17 14
RC	iP	21 07 54
SLC	iP	21 07 29
	i	07 54
	iPcP	09 04
SJ	iP	21 12 00
	i	12 22
	i	12 37
	iPP	15 38
SIT	iP	21 04 40

Date and Station		Phase (GCT)
		h m s
SIT	iPP	21 05 23
	iPPP	05 31
	i	06 12
	eS	09 11
	iS	09 17
	iL	10 46
TUC	iP	21 08 14
	ePcP	09 26
UK	eP	21 06 39
Apr. 14		
COL	eP	21 37 41
Apr. 14		
COL	iP	23 06 15
	i	06 24
Apr. 15		
COL	eP	01 42 17
	i	42 38
EUR	iP	01 45 46
	i	46 05
	i	47 35
HH	iP	01 45 15
	i	47 23
RC	eP	01 46 24
SJ	iP	01 50 36
TUC	eP	01 46 47
	e	48 04
Apr. 15		
EUR	eP	02 37 09
	e	37 33
Apr. 15		
COL	eP	03 02 33
	iP	02 37
EUR	e(P)	03 06 11
RC	eP	03 07 17
Apr. 15		
COL	iP	04 09 23
Apr. 15		
COL	eP	04 45 19
EUR	iP	04 46 16
Apr. 15		
EUR	iP	05 01 24
Apr. 15		
COL	eP	06 15 30
	e	16 01
EUR	e(P)	06 19 02
Apr. 15		
COL	iP	09 08 55

Date and Station		Phase (GCT)
		h m s
Apr. 15		
BH	iP	10 51 33
BC	iP	10 47 13
BOZ	iP	10 46 47
BUT	iP	10 46 37
	eS	53 02
	eL	11 02 49
COL	iP	10 43 22
	i	43 25
	iS	47 14
	iL	48 16
COLU	iP	10 49 43
	i	50 20
	iS	58 45
	i	58 59
EUR	iP	10 46 51
	i	47 56
HONO	iP	10 45 24
HH	iP	10 46 21
	eS	52 30
	eL	58 11
RC	iP	10 47 28
	eS	54 34
	eL	11 08 15
SLC	iP	10 47 04
SIT	eP	10 44 15
	e	45 15
	eS	48 38
	e	49 15
	eL	51 13
TUC	eP	10 47 51
	eS	55 14
	eL	11 03 34
Apr. 15		
EUR	eP	11 39 17
RC	eP	11 39 10
Apr. 15		
COL	eP	12 58 57
	i	59 10
HH	eP	13 01 53
RC	e(P)	13 03 07
Apr. 15		
COL	eP	13 26 13
EUR	iP	13 29 29
HH	eP	13 29 01
Apr. 15		
COL	iP	13 44 45

Date and Station		Phase	(GCT)
			h m s
HH	eP		13 46 42
	e		48 55
	e		49 52
RC	eP		13 48 08
Apr. 15			
EUR	eP		15 29 24
HH	eP		15 30 02
Apr. 15			
COL	iP		15 33 57
EUR	eP		15 37 25
Apr. 15			
COL	eP		15 59 44
EUR	eP		16 00 24
Apr. 15			
COL	iP		16 14 45
EUR	eP		16 18 13
Apr. 15			
BC	eP		18 21 16
BUT	eP		18 20 37
COL	iP		18 17 23
EUR	iP		18 20 51
	e		21 42
HH	iP		18 20 30
	eS		26 14
	eL		31 26
RC	iP		18 21 28
SJ	eP		18 25 32
TUC	eP		18 21 54
Apr. 15			
BC	eP		20 02 04
BOZ	iP		20 01 36
COL	iP		19 58 12
	i		58 32
EUR	eP		20 01 41
	i		01 54
HH	iP		20 01 10
	ePcP		03 20
	eS		07 26
	eScS		11 17
	eL		14 20
RC	iP		20 02 19
SJ	iP		20 06 30
SIT	eP		19 59 02
			h m s
TUC	eP		20 02 43
Apr. 15			
COL	iP		20 06 00
	i		06 22
Apr. 15			
COL	iP		21 24 09
HH	eP		21 27 06
	e		29 15
Apr. 15			
BC	iP		21 40 43
	e		41 13
BOZ	iP		21 40 14
BUT	eP		21 40 05
COL	iP		21 36 50
	eS		39 36
	eL		40 07
EUR	iP		21 40 19
HH	iP		21 39 48
	iPcP		42 37
	eS		45 10
	eScS		50 15
RC	iP		21 41 00
	ePcP		42 37
SLC	iP		21 40 34
SJ	iP		21 45 28
	eS		55 50
	eL		22 14 36
SIT	iP		21 37 31
	i		38 10
	i		39 52
	iS		41 03
	iL		41 59
TUC	iP		21 41 23
	e		42 19
	eL		55 46
UK	iP		21 39 42
	eL		50 23
Apr. 15			
COL	eP		22 15 41
HH	eP		22 17 27
Apr. 15			
HH	eP		22 51 14
Apr. 15			
EUR	eP		23 58 10
	e		58 38
	i		59 08
TUC	e(P)		23 59 31
Apr. 16			
HH	eP		02 09 10
			h m s
Apr. 16			
EUR	iP		03 45 47
HH	iP		03 45 16
	e		45 24
	e		47 28
RC	eP		03 46 25
TUC	eP		03 46 48
Apr. 16			
BH	iP'		04 23 09
	iS		34 26
BC	eP'		04 21 59D
	iP'		22 13
	ipP'		24 28
BOZ	iP'		04 22 07D
	i		22 22
CHI	eP'		04 22 21S,W
	isP'		26 05
	e		39 33
	e		42 45
	eSS		44 41
COL	iP		04 16 50C
	ipP		18 59
	i		19 48
	isP		20 06
	iPP		21 09
	i		21 14
	ipPP		22 59
	iPPP		23 19
	iSKS		26 29
	iSKKS		27 07
	iS		27 28
	iSP		29 31
	isS		31 35
	iPKKP		33 06
	iPKKP		33 33
	iP'P'		41 17
	eP'P'P'		05 01 54
COLU	iP'		04 22 48D
	iP'		23 07
	i		23 32
	i		23 54
	i		24 13
	i		24 43
	ipP'		25 03
	ipP'		25 22
	isP'		26 16
	iPP		26 25
	ipPP		28 24
	i		29 27
	i(SKKS)		32 20
	i		37 23
	iSS		44 38
	i		46 28
	e(SSS)		51 30
	eL		05 03 28
EUR	eP		04 19 02
	eP'		21 47
	ipP'		24 23
	i		26 00
			h m s
EUR	iSKKP		04 33 26
	iPS		35 06
HH	eP		04 18 47
	iP'		22 01
	ipP'		24 17
	i		24 42
	iSKKS		29 50
	eS		30 45
	iS		30 59
	iPKKP		31 50
	eSKP		32 56
	iSKKP		34 41
PHIL	iP'		04 22 40S,W
	epP'		24 47
	e		27 31
	epPP		28 31
	i		40 19
	iSS		44 53
	eSSS		50 49
RC	eP'		04 22 01
	iP'		22 17C
	ipP'		24 22
	iPP		24 50
	isP'		25 12
	i		25 46
	iPPP		27 58
	epPPP		29 36
	i		30 42
	e		32 10
	eSP		34 05
	e		37 06
	i		40 42
	eSS		41 30
SLC	iP'		04 22 13D
	ipP'		24 26
	iPP		24 39
	i		24 47
	isP'		25 39
	i		30 27
SJ	iP'		04 23 06D
	i		24 05
	ipP'		25 20
	isP'		26 12
	iPP		27 52
	iSKS		29 12
	i		32 18
	eSKKS		33 40
	e		35 20
	i		37 45
	e		43 20
	eSS		47 17
	i		48 45
	iSSS		54 20
	eL		05 12 20
SIT	eP		04 17 30
	ipP		19 38
	iP'		21 15
	epP'		23 48
	i		25 03
	eSKS		27 02
	i		28 08
	iS		28 44
	i		30 07

Date and Station		Phase (GCT)
		h m s
SIT	iSKP	04 30 26
	iPS	31 44
	e	34 07
	i	35 40
TUC	eP'	04 22 08
	i	22 21
	ipP'	24 38
	e	28 12
	i	29 08
	e	31 04
	i	31 29
	eSKP	34 10
UK	iP'	04 21 59D
	ipP'	24 15
	eSKP	32 43
	e	35 48
WASH	iP'	04 22 42D
	e	23 26
	ipP'	24 52
	isP'	25 52
	eSKS	29 02
	e	30 56
	eSKKP	33 33
	eSPP	38 23
	e	42 32
Apr. 16		
COL	iP	04 59 54
HH	eP	04 57 33
	e	05 00 41
Apr. 16		
COL	iP	05 15 34
Apr. 16		
COL	iP	05 24 13
	i	24 28
Apr. 16		
COL	eP	05 39 05
Apr. 16		
COL	eP	08 51 19
HH	eP	08 52 58
	e	53 36
RC	eP	08 54 45
Apr. 16		
HH	eP	09 59 18
RC	eP	09 58 37
Apr. 16		
COL	iP	10 31 02
EUR	eP	10 30 29
HH	eP	10 31 02
TUC	eP	10 30 28
Apr. 16		
EUR	iP	12 04 15

Date and Station		Phase (GCT)
		h m s
TUC	eP	12 04 27
Apr. 16		
EUR	eP	13 14 14
HH	iP	13 13 54
	i	14 09
Apr. 16		
COL	iP	17 40 34
EUR	iP	17 40 01
HH	eP	17 40 32
Apr. 16		
COL	iP	17 56 29
EUR	iP	18 00 00
	i	00 08
HH	iP	17 59 27
	i	59 38
	e	18 02 21
SIT	iP	17 57 10
Apr. 16		
BUT	eP	18 29 10
COLU	eP	18 26 49
EUR	iP	18 28 55
HH	iP	18 29 22
RC	eP	18 28 36
SJ	eP	18 24 34
Apr. 16		
COL	eP	19 59 34
Apr. 16		
COL	eP	22 52 10
HH	eP	22 55 19
Apr. 16		
HH	eP	23 04 18
Apr. 16		
HH	eP	23 38 15
Apr. 17		
EUR	eP	00 51 55
Apr. 17		
HH	iP	03 27 30
RC	eP	03 27 40
Apr. 17		
COL	iP	04 38 07
	i	38 24
	iS	39 52
	i	40 11
	i	40 25
	eL	40 42

Date and Station		Phase (GCT)
		h m s
EUR	iP	04 41 58
	e	42 11
HH	eP	04 41 17
	ePcP	44 48
RC	iP	04 42 34
TUC	eP	04 43 10
Apr. 17		
HH	eP	05 12 33
Apr. 17		
BC	iP	08 19 55
	ipP	20 37
BOZ	eP	08 20 22
BUT	eP	08 20 30
	epP	21 13
COL	iP	08 20 29
	ipP	21 15
	iS	30 54
EUR	iP	08 20 01
	ipP	20 44
	isP	21 11
HH	iP	08 20 32
	ipP	21 18
RC	iP	08 20 53
	ipP	21 36
SLC	iP	08 20 19
	ipP	21 02
TUC	iP	08 20 01
	epP	20 44
	ipP	20 45
	esP	21 08
	e(S)	30 09
Apr. 17		
HH	eP	08 46 26
	e	52 29
Apr. 17		
BC	iP	09 35 51
BUT	eP	09 35 14
	e	35 31
	e	36 09
	eS	41 02
	i	41 14
	e	41 24
	eL	46 20
COL	iP	09 32 00
	eS	35 26
	eL	36 41
COLU	iP	09 38 29
EUR	iP	09 35 27
	i	35 40
	iS	41 19

Date and Station		Phase (GCT)
		h m s
HH	iP	09 34 57
	ePcP	37 24
	eS	40 34
	eScS	45 12
RC	iP	09 36 07
	i	36 26
SLC	eP	09 35 47
SJ	iP	09 40 28
	i	40 41
SIT	iP	09 32 41
	i	33 07
	iS	36 35
	eL	39 31
TUC	iP	09 36 30
	eS	43 26
	eL	52 23
Apr. 17		
COL	iP	10 38 26
Apr. 17		
COL	eP	10 47 03
Apr. 17		
COL	iP	11 37 10
EUR	eP	11 41 01
HH	eP	11 41 38
RC	eP	11 41 25
Apr. 17		
COL	eP	12 23 30
HH	eP	12 26 27
RC	eP	12 27 38
TUC	eP	12 28 01
Apr. 17		
COL	eP	12 44 14
Apr. 17		
BC	eP	13 32 43
BOZ	iP	13 32 15
	i	32 28
BUT	eP	13 32 12
	ePcP	34 10
	iS	37 46
	e	40 50
	eL	43 10
COL	iP	13 28 50
	e	29 44
	iS	32 06
	eL	33 02
COLU	iP	13 35 22

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Date and Station		Phase	(GCT)
			h m s
EUR	iP		13 32 20
	i		32 25
HH	iP		13 31 48
	i		31 57
	i		33 28
	ePcP		34 25
	eS		37 15
	iScS		42 10
PHIL	e(P)		13 35 39
	eS		43 36
	eL		55 24
RC	iP		13 32 59
	eS		39 23
	eL		48 14
SLC	eP		13 32 33
SJ	iP		13 37 24
	eS		47 43
	eL		14 05 36
SIT	iP		13 29 30
	i		30 40
	iS		34 15
	eL		34 46
TUC	eP		13 33 25
	eS		40 10
	eL		48 20
Apr. 17			
BC	eP		15 14 43
COL	eP		15 10 40
	i		11 10
	eL		14 38
EUR	iP		15 14 19
HH	eP		15 13 45
	ePcP		16 39
RC	eP		15 15 01
SIT	eP		15 11 17
Apr. 17			
HH	iP		15 20 21
Apr. 17			
BH	iP		18 12 44
	eL		17 24
BC	iP		18 15 32
BOZ	iP		18 16 21
	i		16 40
BUT	eP		18 16 27
	i		16 47
	e		18 16
	eS		22 08
	e		22 50
	eL		29 17
COL	iP		18 19 50

Date and Station		Phase	(GCT)
			h m s
COLU	iP		18 14 25
	eS		18 21
	iS		18 32
	iL		20 10
CHI	eP		18 15 19
	eS		20 23
	eL		26 51
EUR	iP		18 15 58
HH	iP		18 16 48
RC	eP		18 15 45
	e		16 44
SLC	iP		18 15 49
SJ	eP		18 15 24
	e		18 05
	eL		21 00
TUC	iP		18 14 50
	iS		19 22
	i		19 36
	eL		22 22
	iL		24 42
Apr. 17			
COL	iP		19 05 45
Apr. 17			
BH	iP		20 05 07
Apr. 17			
HH	eP		20 33 43
Apr. 17			
HH	eP		23 20 25
Apr. 18			
SIT	eP		00 06 08
Apr. 18			
BC	iP		00 24 15
	e		24 26
BOZ	eP		00 23 45
BUT	eP		00 23 42
COL	eP		00 20 23
	i		20 33
	i		20 41
	i		21 12
	i		22 19
	i		23 02
	eS		23 45
	eL		25 19
COLU	iP		00 26 54
EUR	iP		00 23 51
	i		24 04
	iPcP		25 59
	i		26 12
	iS		29 42
HH	eP		00 23 20

Date and Station		Phase	(GCT)
			h m s
HH	ePcP		00 25 47
	eS		29 30
	eL		34 22
RC	iP		00 24 31
SLC	eP		00 24 05
SJ	eP		00 28 51
TUC	iP		00 24 54
Apr. 18			
EUR	e(P)		00 46 06
HH	eP		00 45 28
Apr. 18			
COL	eP		05 08 57
	i		09 08
	i		09 15
EUR	eP		05 12 30
HH	eP		05 11 56
	e		14 27
RC	eP		05 13 08
TUC	eP		05 13 28
Apr. 18			
COL	iP		05 36 55
HH	eP		05 38 07
TUC	eP		05 35 40
Apr. 18			
EUR	eP		06 23 14
Apr. 18			
HH	eP		06 53 51
Apr. 18			
BC	iP		07 08 27
	i		08 40
BOZ	iP		07 08 00
	i		08 08
BUT	iP		07 07 50
	i		08 03
	e(S)		14 20
COL	iP		07 04 34
	i		04 55
	iS		08 12
	eL		09 08
COLU	iP		07 11 00
EUR	iP		07 08 03
	i		08 12
	e(S)		13 48
HH	iP		07 07 34
	ePcP		09 44
	i		09 58

Date and Station		Phase	(GCT)
			h m s
HH	eS		07 13 26
	eScS		17 37
	eL		18 03
RC	iP		07 08 43
SLC	iP		07 08 17
	i		08 31
SJ	iP		07 12 53
	i		13 08
SIT	iP		07 05 22
TUC	iP		07 09 05
	i		09 19
Apr. 18			
COL	iP		07 12 48
Apr. 18			
COL	iP		07 45 19
HH	eP		07 48 11
	e		49 54
	e		51 55
Apr. 18			
COL	iP		07 49 07
TUC	eP		07 53 23
Apr. 18			
COL	iP		07 58 22
Apr. 18			
TUC	eP		08 41 38
Apr. 18			
COL	iP		13 25 35
	i		25 53
	i		26 14
EUR	eP		13 29 04
HH	eP		13 28 35
	e		30 35
RC	e(P)		13 34 59
TUC	eP		13 30 05
Apr. 18			
BOZ	e(P)		16 36 23
COL	eP		16 32 59
EUR	iP		16 36 26
	e		36 34
HH	eP		16 35 55
	e		38 19
	e		39 20
RC	iP		16 37 06
	e		40 29

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Date and Station		Phase (GCT) h m s
Apr. 18		
EUR	eP	16 39 50
Apr. 18		
HH	eP	21 50 55
Apr. 18		
BUT	eP	22 25 11
COL	eP	22 22 35
EUR	eP	22 25 21
HH	iP	22 25 01
RC	eP	22 25 49
Apr. 18		
COL	iP	23 14 31
Apr. 19		
EUR	iP	00 26 33
Apr. 19		
HH	eP	05 44 47
	e	44 53
Apr. 19		
COL	eP	07 08 17
EUR	iP	07 11 48
HH	e(P)	07 11 27
	e	14 20
	e	17 47
RC	eP	07 12 31
	e	12 41
TUC	eP	07 12 55
Apr. 19		
EUR	iP	07 33 47
TUC	eP	07 34 52
Apr. 19		
EUR	iP	08 39 54
HH	eP	08 40 21
RC	eP	08 39 39
TUC	eP	08 39 07
Apr. 19		
BC	eP	08 52 58
COL	iP	08 52 02
EUR	iP	08 52 56
	e	53 05
HH	eP	08 53 05
Apr. 19		
EUR	iP	10 46 52
TUC	eP	10 47 53

Date and Station		Phase (GCT) h m s
Apr. 19		
BUT	eP	11 34 29
COL	iP	11 31 54
HH	eP	11 34 18
Apr. 19		
BC	iP	15 52 37
BOZ	iP	15 52 10
BUT	iP	15 52 01
	i	53 14
	eS	57 44
	eL	16 00 31
COL	eP	15 48 50
	iP	48 52
	iS	52 16
	iL	52 36
COLU	iP	15 55 19
EUR	iP	15 52 13
	iPcP	54 29
HH	iP	15 51 44
	eS	57 14
	eScS	16 02 10
	eL	04 13
RC	iP	15 52 56
	ePcP	54 41
	eS	59 27
	eL	16 07 14
SLC	iP	15 52 29
SJ	iP	15 57 22
SIT	iP	15 49 30
	i	49 38
	i	49 47
	i	50 45
	i	51 30
	iS	53 09
	iL	54 04
TUC	iP	15 53 17
	eScS	16 03 54
	eL	05 17
UK	iP	15 51 36
	eL	16 01 50
WASH	iP	15 55 13
	eSS	16 07 25
	eL	13 23
Apr. 19		
EUR	eP	18 26 03
Apr. 19		
EUR	eP	18 55 01
Apr. 19		
HH	eP	20 58 41

Date and Station		Phase (GCT) h m s
Apr. 19		
COL	iP	21 07 08
EUR	iP	21 10 37
Apr. 19		
HH	eP	22 03 11
Apr. 19		
HH	eP	22 31 46
BC	iP	22 27 03D
	iS	33 10
	eL	38 18
BOZ	iP	22 26 33D
	iPP	28 00
	iPcP	28 58
	eS	32 20
	eL	34 40
BUT	eP	22 26 25
	ePP	28 00
	iPcP	28 40
	e	30 03
	eS	31 44
	i	32 41
	eL	34 27
COL	eP	22 23 08
	iP	23 11
	iS	26 04
	iL	26 52
COLU	iP	22 29 45D
	i	30 05
	iPcP	30 28
	ePP	31 46
	iPPP	33 28
	eS	37 57
	iS	38 02
	eL	43 22
	iL	44 20
CHI	iP	22 28 38N,W
	iPPP	31 34
	iS	36 02
	i	41 06
	eL	44 54
EUR	iP	22 26 38D
	iS	32 24
HONO	iP	22 25 53C
	eS	31 06
	eL	35 40
T_P=4.0 sec. A=2.0mm.		
T_S=13.0 sec. A=25.5mm.		
T_L=8.0 sec. $A_{max.}$=50.0mm.		
HH	iP	22 26 07D
	ePcP	28 50
	iS	31 26
	e	34 07
	iScS	36 27
	iL	40 19

Date and Station		Phase (GCT) h m s
PHIL	iP	22 29 38S,W
	iPP	31 53
	ePPP	33 08
	iS	37 51
	i	42 35
	e	45 11
	eL	48 16
RC	iP	22 27 20C
	ePP	29 02
	ePPP	29 21
	eS	33 09
	eL	37 21
SLC	iP	22 26 53D
	iPP	28 20
	iS	32 52
	eL	35 52
SJ	iP	22 31 49D
	i(PP)	35 22
	iS	42 02
	ePPS	42 44
	i	43 03
	eSS	46 48
	eL	52 45
SIT	iP	22 23 49C
	i	26 35
	i	27 23
	i	28 55
	iS	37 18
	iL	37 40
TUC	iP	22 27 43C
	eS	34 16
	iS	34 23
	i	36 52
	eL	39 42
UK	iP	22 26 03D
	ePcP	28 48
	iS	31 32
	i	33 39
	eL	36 08
WASH	iP	22 29 39D
	i	30 17
	iPP	31 51
	e(S)	38 25
	eL	45 37
Apr. 19		
EUR	eP	22 58 50
HH	eP	22 57 25
	e	38 42
Apr. 19		
HH	eP	23 24 56
Apr. 20		
BC	iP	00 22 19
COL	iP	00 21 40
	i	22 12
EUR	iP	00 22 17

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Date and Station		Phase	(GCT) h m s
HH		eP	00 22 32
TUC		eP	00 22 31
Apr. 20			
EUR		eP	01 48 10
		i	50 48
HH		eP	01 47 39
		e	50 29
TUC		eP	01 49 16
Apr. 20			
EUR		iP	02 05 54
TUC		eP	02 07 00
Apr. 20			
COL		iP	02 30 03
Apr. 20			
HH		eP	03 07 41
Apr. 20			
EUR		iP	05 17 51
HH		iP	05 17 21
RC		iP	05 18 29
TUC		eP	05 18 51
Apr. 20			
BC		eP	07 01 17
EUR		eP	07 01 33
		e	01 41
		ePP	05 45
HH		eP	07 02 31
TUC		eP	07 01 04
		eL	29 51
Apr. 20			
EUR		eP	07 22 52
Apr. 20			
EUR		eP	07 54 39
Apr. 20			
HH		eP	08 51 20
RC		eP	08 52 29
Apr. 20			
EUR		iP	10 01 04
TUC		eP	10 02 09
Apr. 20			
BC		eP	10 08 33
COL		eP	10 13 16
		i	13 32
EUR		iP	10 09 25

Date and Station		Phase	(GCT) h m s
HH		eP	10 10 05
TUC		eP	10 07 39
Apr. 20			
HH		eP	10 30 18
Apr. 20			
BC		eP	11 02 29
COL		eP	11 02 27
		e	02 41
		i	03 03
		i	04 09
		eS	05 03
		iL	05 54
EUR		iP	11 02 05
		e	02 10
HH		eP	11 01 34
RC		eP	11 02 46
TUC		eP	11 03 10
Apr. 20			
BC		eP	11 06 46
EUR		iP	11 06 18
HH		iP	11 05 38
RC		iP	11 06 53
TUC		eP	11 07 29
Apr. 20			
EUR		eP	11 28 25
TUC		eP	11 28 28
Apr. 20			
BH		iP'	12 49 58
BC		eP	12 44 31
COL		iP	12 43 15
COLU		eP'	12 49 46
EUR		eP	12 44 22
		e	44 24
		ePP	48 15
HH		eP	12 44 30
RC		e(P)	12 45 30
		iP'	49 42
SJ		iP'	12 50 17
WASH		eP'	12 49 48
		eL	13 32 46
Apr. 20			
BH		iP	12 53 27
HH		eP	13 00 50

Date and Station		Phase	(GCT) h m s
HH		e	13 01 12
		e	08 55
Apr. 20			
BH		iP	14 20 29
BC		eP	14 19 52
BOZ		eP	14 19 23
COL		iP	14 16 03
EUR		eP	14 19 28
		e	19 43
HH		iP	14 18 56
		e	21 20
RC		eP	14 20 10
TUC		eP	14 20 33
Apr. 20			
COL		iP	14 43 30
Apr. 20			
HH		eP	15 14 39
Apr. 20			
COL		iP	17 58 16
EUR		eP	18 01 37
HH		iP	18 01 08
RC		eP	18 02 20
Apr. 20			
COL		iP	18 11 03
EUR		iP	18 14 29
		e	14 41
HH		eP	18 13 58
		e	16 39
		e	19 45
		e	22 23
RC		eP	18 15 12
TUC		iP	18 15 34
Apr. 20			
EUR		eP	18 20 14
TUC		eP	18 21 18
Apr. 20			
BC		eP	20 02 53
COL		eP	19 59 11
EUR		iP	20 02 31
		e	02 41
HH		iP	20 02 02
RC		eP	20 03 12

Date and Station		Phase	(GCT) h m s
TUC		eP	20 03 31
Apr. 20			
EUR		eP	21 00 45
Apr. 20			
HH		eP	21 10 10
Apr. 20			
HH		eP	21 24 27
Apr. 20			
EUR		e(P)	21 50 27
		iP	51 22
HH		eP	21 51 52
		e	55 30
RC		eP	21 52 15
Apr. 20			
COL		eP	22 32 09
EUR		iP	22 35 28
HH		eP	22 34 59
TUC		eP	22 36 31
Apr. 20			
EUR		eP	22 52 40
Apr. 21			
EUR		eP	00 27 05
TUC		eP	00 27 04
Apr. 21			
COL		iP	01 01 24
EUR		eP	01 04 39
HH		eP	01 04 19
		e	06 42
RC		eP	01 05 32
Apr. 21			
EUR		eP	03 56 21
HH		eP	03 55 51
TUC		eP	03 56 22
Apr. 21			
EUR		eP	05 43 04
Apr. 21			
HH		eP	10 00 30
Apr. 21			
TUC		e(P)	11 10 44
Apr. 21			
COL		iP	13 16 37
RC		eP	13 14 06

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

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

Date and Station		Phase (GCT)
		h m s
COL	iP	19 22 11C
	i	24 23
	i	24 34
	i	24 49
	iPP	25 12
	i	25 36
	iS	32 06
	eSS	37 05
	eSSS	40 07
	eL	42 45
	iP'P'	49 14
	iSKPP'	52 30
COLU	iP	19 22 39C
	iS	32 56
	iScS	33 31
	iPPS	34 16
	i	36 28
	iSS	38 19
	eSSS	42 39
	eL	44 50
EUR	iP	19 23 43C
	i	30 50
	iP'P'	48 35
HH	iP	19 23 05C
	i	23 13
	i	23 30
	i	24 00
	eSKS	33 29
	iS	33 50
	ePKKP	40 46
	eP'P'	49 08
PHIL	eP	19 22 09
	iS	31 45
	eL	43 14
RC	iP	19 23 02D
	eS	33 26
	eL	46 22
SLC	eP	19 23 30D
	i	23 36
	eS	34 05
	eL	50 01
SJ	iP	19 22 35C
	i	22 49
	ePP	25 49
	eS	32 53
	iS	32 54
	iPPS	34 06
	i	35 10
	eSS	38 02
	eL	45 22
SIT	iP	19 22 48D
	i	29 03
	iS	33 08
	iScS	33 55
	ePS	34 19
	eL	45 16
TUC	eP	19 24 03
	ePP	28 12
	ePS	37 19
	eL	52 14

Date and Station		Phase (GCT)
		h m s
UK	ePP	19 28 09
WASH	iP	19 22 12C
	iS	32 09
Apr. 24		
COL	iP	21 14 38
HH	eP	21 13 51
Apr. 24		
COL	iP	22 17 58
HH	eP	22 17 11
Apr. 25		
EUR	eP	01 15 28
Apr. 25		
COL	iP	01 30 40
Apr. 25		
EUR	eP	02 38 30
Apr. 25		
BH	iP	02 39 18
	iSKS	49 50
BC	iP	02 39 24C
	ePP	43 29
BOZ	iP	02 38 40D
	i	38 59
	iSKS	49 07
	iL	03 02 11
BUT	iP	02 38 40
	iPP	42 18
	iPPP	44 08
	iSKS	49 03
	iS	49 27
	iPS	50 28
	iPPS	51 01
	iSS	55 15
	iSSS	59 28
	eL	03 02 10
CHI	iP	02 37 59S,E
	eS	48 07
	e	49 07
	eL	59 51
COL	iP	02 37 40C
	ePPP	42 31
	e	43 51
	iS	47 36
	iScS	48 24
	eSS	52 09
	eSSS	56 11
	iPKKP	56 31
	iL	58 04
	iP'P'	03 04 19
	iSKSP	07 52
COLU	iP	02 38 08C
	i	38 26
	iS	48 23
	iScS	49 01
	i	49 15

Date and Station		Phase (GCT)
		h m s
COLU	iPPS	02 49 22
	iL	59 30
EUR	iP	02 39 12C
	iPKKP	56 46
	eP'P'	03 03 50
HH	iP	02 38 33C
	e	40 28
	e	42 57
	iSKS	48 55
	iS	49 15
	ePKKP	56 09
	eP'P'	03 04 08
	eL	07 08
PHIL	iP	02 37 30N,W
	iS	47 12
	eSS	52 08
	eSSS	56 00
	iL	59 58
RC	iP	02 38 29D
	i	39 05
	e	41 48
	e	42 46
	iSKS	48 51
	ePPS	50 36
	eL	03 02 26
SLC	iP	02 38 59C
	i	39 37
	iSKS	49 30
	iPS	51 42
	eL	03 03 42
SJ	iP	02 38 03C
	ePP	41 04
	eS	48 12
	i	50 49
	eSS	53 25
	e	56 16
	eL	03 00 38
SIT	iP	02 38 18
	ePP	41 38
	eS	48 36
	iS	48 47
	iScS	49 10
	i	49 45
	ePS	49 54
	eL	03 00 40
TUC	iP	02 39 30C
	ePP	43 39
	e	45 55
	iSKS	50 06
	ePKKP	55 39
	eL	03 07 42
UK	eP	02 39 26D
	ePP	43 34
WASH	iP	02 37 40C
	i	40 28
	iS	47 36
	eL	54 12

Date and Station		Phase (GCT)
		h m s
Apr. 25		
BH	iP	04 20 26
HH	eP	04 27 51
RC	eP	04 26 53
SJ	eP	04 23 02
Apr. 25		
EUR	iP	06 46 19
SLC	eP	06 47 28
Apr. 25		
HH	eP	06 50 57
RC	e(P)	06 51 09
	e	52 38
Apr. 25		
BOZ	eP	07 22 03
BUT	e(PP)	07 26 27
	e(SKS)	32 51
	eSS	39 37
	eL	46 03
COL	iP	07 19 19
EUR	eP	07 22 23
HH	iP	07 21 46
RC	eP	07 22 18
Apr. 25		
BH	iP	07 28 01
BC	iP	07 23 26
BOZ	iP	07 22 59
BUT	iP	07 22 49
	eS	28 48
	eL	08 01 52
COL	iP	07 19 36
	iPP	19 50
	i	20 45
	iS	23 01
	iL	23 14
COLU	iP	07 26 02
	e	27 44
	ePP	28 28
	iS	34 44
	i	35 01
	eScS	35 54
	eL	45 28
EUR	eP	07 23 01
HH	iP	07 22 33
	eS	28 20
	eScS	32 42

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

Date and Station		Phase (GCT)
		h m s
BUT	iS	22 29 51
	eL	30 27
COL	iP	22 31 33
	eL	41 46
HH	eP	22 27 50
	i	27 56
	eS	30 57
	eL	32 17
RC	eP	22 27 45
	i	27 49
	e	30 52
	eL	31 21
SJ	e(P)	22 32 38
TUC	e(P)	22 25 19
	i	25 30
	iL	26 18
UK	e(P)	22 26 50
	eL	28 46
Apr. 25		
EUR	e(P)	22 49 09
HH	e(P)	22 47 21
	e	52 42
	eL	55 40
TUC	iP	22 49 52
Apr. 26		
EUR	eP	00 03 00
TUC	iP	00 02 41
	eL	03 33
Apr. 26		
EUR	iP	00 49 00
HH	eP	00 49 19
RC	eP	00 50 01
Apr. 26		
COL	iP	02 23 11
	ipP	23 57
	i	24 03
	i	24 33
	i	25 22
HH	eP	02 24 58
Apr. 26		
HH	iP	02 31 21
	eS	33 39
COL	iP	02 41 19
EUR	eP	02 38 26
HH	eP	02 38 52
RC	eP	02 37 47
TUC	iP	02 37 32

Date and Station		Phase (GCT)
		h m s
Apr. 26		
EUR	eP	03 06 15
	i	05 23
TUC	eP	03 05 37
	i	05 39
	e	06 33
Apr. 26		
BC	e(P)	04 41 00
COL	iP	04 36 54
COLU	eP	04 43 17
EUR	eP	04 40 20
HH	iP	04 39 49
	e	40 07
RC	eP	04 40 58
TUC	eP	04 41 19
Apr. 26		
BOZ	eP	06 46 39
BUT	iP	06 46 54
COL	iP	06 45 38
	i	45 51
COLU	eP	06 46 07
EUR	eP	06 47 00
HH	iP	06 46 32
	i	46 48
RC	eP	06 46 30
SJ	eP	06 46 02
TUC	eP	06 47 47
Apr. 26		
HH	eP	08 45 58
Apr. 26		
EUR	eP	09 12 17
Apr. 26		
EUR	iP	10 14 13
	i	14 25
Apr. 26		
BC	eP	10 29 45
BOZ	eP	10 28 51
BUT	iP	10 28 41
	iPP	29 19
	i	30 01
	e(S)	32 25
	eL	35 31
COL	iP	10 24 37
	i	24 57
	iS	25 49

Date and Station		Phase (GCT)
		h m s
COL	iL	10 26 21
COLU	eP	10 32 09
EUR	iP	10 29 13
HH	iP	10 28 17
	eS	32 15
	eL	35 28
RC	eP	10 29 34
	eL	39 21
SLC	iP	10 29 21
SIT	iP	10 24 54
	eS	26 11
	iL	26 25
TUC	iP	10 30 27
Apr. 26		
COL	iP	10 31 55
Apr. 26		
BC	eP	10 47 41
COL	iP	10 43 39
HH	iP	10 47 21
	i	47 25
	e	55 57
Apr. 26		
COL	iP	11 45 45
	i	45 55
HH	eP	11 46 00
	e	55 58
TUC	e(P)	11 42 12
	e	42 20
Apr. 26		
RC	e(P)	11 52 14
Apr. 26		
HH	eP	12 15 55
Apr. 26		
EUR	eP	13 16 20
Apr. 26		
BC	iP	15 19 39
BOZ	iP	15 19 15
BUT	iP	15 19 07
COL	iP	15 16 01
EUR	iP	15 19 21
	i	19 32
HH	iP	15 18 54
	eScS	28 41
RC	iP	15 19 46
	e	20 13

Date and Station		Phase (GCT)
		h m s
SLC	iP	15 19 31
TUC	iP	15 20 09
Apr. 26		
HH	eP	16 22 20
Apr. 26		
HH	eP	16 35 06
Apr. 26		
EUR	iP	18 03 38
HH	e(P)	18 06 13
	e	07 48
Apr. 26		
EUR	eP	21 12 36
Apr. 26		
EUR	iP	21 20 26
HH	eP	21 19 58
Apr. 26		
HH	eP	22 57 57
Apr. 26		
TUC	eP	23 55 17
Apr. 27		
BC	e(P')	00 28 42
COL	iP	00 22 46
EUR	iP'	00 28 33
	e	29 10
HH	eP'	00 28 34
	e	29 07
RC	e(P')	00 28 41
	e	28 59
SJ	iP'	00 30 26
TUC	e(P')	00 30 07
Apr. 27		
EUR	iP	00 41 43
HH	eP	00 41 14
RC	eP	00 38 56
	e	42 25
TUC	eP	00 42 45
Apr. 27		
BC	iP	02 46 56
BOZ	eP	02 46 26
COL	iP	02 43 03
COLU	iP	02 49 37
EUR	iP	02 46 31

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

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Date and Station		Phase (GCT)
		h m s
SJ	eP	15 01 22
	eS	11 38
	eL	29 32
SIT	iP	14 53 30
	iS	57 14
	iL	58 02
TUC	eP	14 57 21
UK	eP	14 55 46
Apr. 28		
COL	eP	17 19 53
Apr. 28		
HH	eP	18 56 53
RC	eP	18 58 05
TUC	eP	18 58 28
Apr. 28		
HH	eP	19 59 53
TUC	eP	19 58 33
Apr. 28		
BC	eP	20 12 14
BOZ	eP	20 11 48
COL	iP	20 08 26
	i	08 35
	i	08 59
	i	10 00
	e(S)	12 28
	eL	12 42
COLU	iP	20 14 47
HH	iP	20 11 22
	eS	17 27
	eScS	21 40
RC	eP	20 12 30
	e	12 45
SIT	eP	20 09 05
TUC	e(P)	20 12 55
Apr. 28		
HH	eP	20 44 51
Apr. 28		
TUC	eP	22 17 44
Apr. 28		
UK	e(P)	23 06 28
Apr. 28		
COL	eP	23 43 01
HH	iP	23 45 55
	ePcP	48 35
RC	eP	23 47 08

Date and Station		Phase (GCT)
		h m s
TUC	eP	23 47 31
Apr. 29		
UK	eP	02 38 10
Apr. 29		
COL	iP	04 26 06
Apr. 29		
BC	iP	04 37 52
BOZ	eP	04 37 21
	e	37 44
BUT	iP	04 37 17
	i	37 52
	ePP	38 47
	e	39 22
	iS	42 57
	eL	45 29
COL	iP	04 33 55
	i	34 13
	e(S)	37 08
	eL	38 27
COLU	iP	04 40 31
HH	eP	04 36 54
	eScS	47 14
RC	iP	04 38 06
SLC	eP	04 37 42
SJ	eP	04 42 30
SIT	iP	04 34 40
	i	34 48
	eS	38 23
	iS	38 24
	i	38 45
	eL	39 26
TUC	eP	04 38 29
	e	38 44
	eL	55 08
Apr. 29		
BOZ	eP	04 44 29
COL	iP	04 41 06
HH	eP	04 44 02
	ePcP	46 49
RC	eP	04 45 15
TUC	eP	04 45 38
Apr. 29		
COL	iP	04 48 28
Apr. 29		
HH	eP	05 58 00
Apr. 29		
BH	iP	06 16 11
	eS	16 45

Date and Station		Phase (GCT)
		h m s
Apr. 29		
BH	iP	07 35 17
	iS	35 29
Apr. 29		
UK	eP	08 08 18
Apr. 29		
BC	iP	09 33 34
BOZ	eP	09 33 08
BUT	iP	09 33 01
	i	33 33
COL	iP	09 29 57
COLU	iP	09 35 19
HH	iP	09 32 47
	i	33 24
RC	iP	09 33 40
TUC	iP	09 34 03
Apr. 29		
BC	iP	10 23 09
BOZ	eP	10 23 36
BUT	iP	10 23 52
	ipP	24 43
COLU	iP	10 21 25
HH	iP	10 23 53
	ePP	27 10
RC	iP	10 23 10
	epP	24 09
SLC	eP	10 23 20
SJ	iP	10 19 12
	i	19 30
TUC	iP	10 22 39
UK	eP	10 23 49
Apr. 29		
BC	e(P)	11 10 06
COL	eP	11 14 36
HH	eP	11 11 25
RC	eP	11 10 36
TUC	eP	11 09 24
	e	09 38
Apr. 29		
HH	eP	12 14 51
Apr. 29		
HH	eP	13 14 40

Date and Station		Phase (GCT)
		h m s
Apr. 29		
HH	eP	14 11 23
Apr. 29		
EUR	eP	15 11 20
HH	eP	15 12 22
RC	eP	15 11 53
Apr. 29		
COL	eP	15 26 31
Apr. 29		
COL	iP	18 45 48
	i	45 54
HH	eP	18 50 42
	i	50 46
Apr. 29		
COL	iP	19 34 46
Apr. 29		
BC	eP'	21 15 21
BOZ	eP'	21 15 17
COLU	iP'	21 15 57
EUR	iP'	21 15 13
HH	eP'	21 15 06
	i	15 10
RC	eP'	21 15 26
	ePP	18 00
SLC	eP'	21 15 20
TUC	ePP	21 18 13
WASH	iP'	21 15 51
Apr. 30		
COL	eP	03 44 52
Apr. 30		
HH	eP	04 44 31
Apr. 30		
COL	eP	05 43 50
Apr. 30		
EUR	iP	07 16 42
RC	eP	07 17 08
Apr. 30		
BC	eP	09 47 42
EUR	iP	09 48 34
TUC	e(P)	09 47 05
	eS	47 14
	iL	47 17

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Date and Station	Phase	Phase (GCT) h m s	Date and Station	Phase	Phase (GCT) h m s	Date and Station	Phase	Phase (GCT) h m s	Date and Station	Phase	Phase (GCT) h m s
Apr. 30											
EUR	eP	13 38 01									
Apr. 30											
EUR	eP	13 45 53									
Apr. 30											
COL	eP	13 52 45									
	i	53 03									
EUR	iP	13 56 07									
HH	eP	13 55 38									
Apr. 30											
COL	iP	15 23 36									
	i	23 48									
	i	24 08									
EUR	eP	15 27 01									
HH	eP	15 26 30									
	e	26 40									
Apr. 30											
COL	iP	18 04 08									
Apr. 30											
COL	iP	18 45 52									
HH	eP	18 45 10									
Apr. 30											
TUC	e(P)	19 30 54									
Apr. 30											
HH	eP	20 12 59									
Apr. 30											
UK	e(P)	21 06 51									
Apr. 30											
HH	eP	21 38 23									
Apr. 30											
HH	eP	22 11 00									
Apr. 30											
HH	eP	22 17 18									
	e	19 48									

ADDENDA

Apr. 16		
BUT	eP	04 18 58
	iP'	22 04C
	ipP'	24 20
	isP'	25 23
	i	30 04
	eSKKP	34 37
	e	35 45
	e(SS)	39 43
	e(P'P')	42 00
	eSSS	45 25
	eL	56 13

Local and Minor Earthquakes	
Station and Date	hour
BOZ	
Apr.	
17	21.6
COL	
Apr.	
1	22.6
2	13.7
3	00.6
3	03.0
	14.4
4	20.8
5	09.4
	09.9
	19.6
6	05.3
	07.8
	14.4
	14.9
7	12.2
	17.2
	18.4
8	01.0
	02.1
	07.6
	10.2
	15.8
	19.9
	21.7
9	03.5
	06.8
	08.8
	18.1
	23.7
11	00.4
	05.7
	10.8
	17.7
	21.7
	23.0
12	13.0
	21.5
13	00.5
	03.1
	05.5
	12.7
	18.8
14	16.7
	23.7
15	15.0
16	07.3
	09.1
	12.8
17	06.5
18	23.5
19	01.2
	18.3
20	04.5
	05.2
	05.4
	08.3
	17.3
22	16.5
23	02.2
	06.1
	07.1
	07.1
24	04.1
	09.3

Local and Minor Earthquakes	
Station and Date	hour
COL	
Apr.	
24	12.7
25	12.8
26	16.4
29	07.9
30	23.6
EUR	
Apr.	
2	12.9
	15.3
4	10.6
5	18.9
6	06.1
8	09.6
9	23.0
	23.5
10	04.0
11	12.9
12	05.1
	20.0
	20.7
14	15.8
15	20.8
	21.8
18	08.1
19	11.2
	18.6
20	21.9
21	16.1
22	00.8
	01.5
	09.7
	23.5
25	07.3
	13.2
26	02.7
	23.2
28	00.2
HONO	
Apr.	
4	01.4
6	19.9
7	01.6
10	04.1
	14.5
20	01.2
SLC	
Apr.	
7	23.0
10	00.7
13	22.6
16	23.1
18	22.4
20	23.7
24	21.3
25	20.0
27	23.1
30	21.5
SJ	
Apr.	
2	09.6
	12.6
4	19.7

Local and Minor Earthquakes	
Station and Date	hour
SJ	
Apr.	
7	00.8
10	13.2
13	13.4
14	08.4
15	09.1
	15.0
26	23.6
28	03.5
	04.0
TUC	
Apr.	
1	02.1
2	01.4
	15.9
3	03.4
	03.9
	07.3
5	06.3
6	11.4
8	01.3
9	05.6
	05.8
10	09.1
	19.0
13	12.6
14	11.2
	12.5
	13.7
15	06.5
	11.6
	12.8
17	06.5
19	05.7
21	07.3
	11.3
	14.4
	14.6
	16.0
22	01.5
	04.5
23	07.5
	11.2
24	11.0
25	06.8
26	01.2
	01.4
	03.2
	04.0
	08.0
	10.8
	12.8
27	02.5
	04.4
	04.7
	05.7
	07.3
	11.1
	11.2
	11.6
28	09.9
	16.2
30	11.8

Local and Minor Earthquakes	
Station and Date	hour
UK	
Apr.	
7	16.3
8	18.1
10	06.6
26	10.1
30	06.5

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