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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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1958

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
*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
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
Kipapa, T. H. (KIP)
*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)
Tucson, Ariz. Telemeter (TUC-T)
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. Beginning January 1, 1958 the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States. The horizontal instruments will continue in operation and the seismograms for the local and regional earthquakes will be scaled and the data published.

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. 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, which may be obtained on loan by addressing the Seismograph Station Director, Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone.

Tucson telemeter is located 9 miles northeast of Tucson at 32°20.1' North, 110°43.4' West. It was established in December 1957 to serve as an outpost station.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Apr.	h m s	°	°	
1	14 07 12*	39½ N.	141½ E.	Northern Honshu, Japan.
1	16 44 34*	51½ N.	179½ W.	Andreanof Islands, Aleutian Islands.
2	10 50 42*	5½ S.	154½ E.	Solomon Islands. Felt at Rabaul.
2	20 55 30*	35½ S.	105½ W.	Southeast Pacific Ocean.
3	02 23 43*	41 N.	20½ E.	Albania. Felt in Albania and on Corfu Island.
3	07 18 34*	35 N.	27½ E.	Near Crete.
3	08 25 43*	1½ N.	79 W.	Near coast of Ecuador.
4	01 55 41*	24 S.	179½ E.	South of Fiji Islands. h about 550 km.
4	02 23 20*	5½ S.	152 E.	New Britain Island region. Felt at Ulamona.
4	07 16 55*	5½ S.	152 E.	New Britain. Felt at Rabaul and Warangoi.
4	07 29 55*	5½ S.	152 E.	New Britain. Felt at Rabaul and Ulamona.
4	09 18 49**			Albania aftershock.
4	15 38 03*	5½ S.	152 E.	New Britain. Felt at Rabaul.
5	05 10 59*	51½ N.	180	Andreanof Islands, Aleutian Islands.
6	10 36 30*	13 N.	144½ E.	Mariana Islands.
6	16 57 31*	22 S.	67 W.	Bolivia-Argentina border. h about 200 km.
7	03 28 52**			Sandwich Islands.
7	07 09 08*	17½ S.	178½ W.	Fiji Islands. h about 650 km.
7	15 30 38*	66½ N.	157 W.	Alaska. Felt throughout central Alaska. Mag. 7.
7	18 05 02*	38½ N.	143 E.	Near east coast of Honshu, Japan.
7	18 30 12*	38½ N.	142½ E.	Honshu aftershock.
7	18 36 37*	38 N.	142½ E.	do.
7	18 38 18*	38 N.	143 E.	do.
7	18 47 11*	38 N.	143 E.	do.
7	19 13 20*	45 N.	98 E.	Outer Mongolia.
8	00 14 20*	66½ N.	155½ W.	Alaska. Felt in central Alaska.
8	04 35 21*	7 N.	73 W.	Colombia.
8	07 10 45*	38 N.	142½ E.	Off coast of Honshu, Japan.
8	09 59 15*	33 N.	67½ E.	Afghanistan.
8	13 21 33*	19 S.	176 W.	Tonga Islands. h about 250 km.
8	14 05 28**			Fox Islands, Aleutian Islands.
8	17 17 05**			El Salvador. Felt at San Salvador.
9	04 36 29*	29 N.	52 E.	Southwestern Iran.
9	06 15 12*	56½ N.	139 W.	Gulf of Alaska. Felt at Sitka.
9	17 58 02*	2 N.	126½ E.	Molucca Passage.
10	01 03 45*	27½ N.	128½ E.	Ryukyu Islands.
10	01 44 34*	53 N.	160½ E.	Near east coast of Kamchatka.
10	10 55 31*	51½ N.	99 E.	Outer Mongolia.

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Apr.	h m s	°		°		
10	11 50 05*	38½	N.	143	E.	Off east coast of Honshu, Japan.
10	13 18 47*	24	S.	69	W.	Northern Chile. h about 150 km.
10	19 10 13*	18	S.	174½	W.	Tonga Islands. h about 200 km.
10	23 12 47*	4½	S.	107	W.	About 1000 miles west of Galapagos Islands. Mag. 6.
11	00 58 13*	38½	N.	142½	E.	Off east coast of Honshu, Japan.
11	03 58 28*	17	N.	94	W.	Mexico.
11	09 12 42**					Panama-Costa Rica border.
11	17 27 00*	52	N.	174	W.	Andreanof Islands, Aleutian Islands.
11	17 54 43*	52	N.	174	W.	Andreanof Islands, Aleutian Islands.
11	23 11 26*	47½	N.	153½	E.	Kurile Islands. h about 100 km. Mag. 6½.
11	23 24 11*	0		125	E.	Molucca Passage.
12	10 24 55**					Gulf of California foreshock. Mag. 5½.
12	11 46 58*	26½	N.	111	W.	Gulf of California. Mag. 6½.
12	13 25 22*	25	N.	126	E.	Ryukyu Islands.
13	01 48 43*	66½	N.	155½	W.	Alaska.
13	04 08 56*	46	N.	98	E.	Outer Mongolia.
13	08 25 37*	17	S.	177½	W.	Fiji Islands. h about 450 km.
13	09 07 24*	66	N.	156	W.	Alaska. Felt in central Alaska. Mag. 6¾.
13	12 29 07*	53	N.	161	E.	Near east coast of Kamchatka. Mag. 6½.
14	02 49 41*	47	N.	152	E.	Kurile Islands.
14	03 12 25*	66	N.	155	W.	Alaska.
14	03 47 16*	26½	N.	128	E.	Ryukyu Islands.
14	16 26 55*	45	N.	98	E.	Outer Mongolia.
14	18 08 40*	53	N.	161	E.	Near east coast of Kamchatka.
14	19 21 54*	14½	S.	168	E.	New Hebrides Islands.
14	21 32 28*	1	N.	79½	W.	Near coast of Ecuador. One killed, 12 injured and minor property damage at Esmeraldes. Also felt at Quito and Ibarra. Mag. 6¾ - 7.
14	22 48 33*	1	N.	79½	W.	Ecuador aftershock. Mag. 6½ - 6¾.
15	01 30 43*	1	N.	79½	W.	do.
15	03 52 39*	9	N.	84	W.	Off west coast of Costa Rica. Mag. 6¾.
15	09 59 55*	15	N.	120	E.	Near south coast of Luzon, P. I. Felt at Manila. h about 100 km.
15	10 59 59*	53	N.	167½	W.	Fox Islands, Aleutian Islands.
16	12 36 24*	14	N.	120½	E.	Philippine Islands. h about 150 km.
17	02 01 26*	6	S.	154	E.	Solomon Islands region.
17	02 15 16*	10	S.	152½	E.	Solomon Sea.
17	02 46 03*	32	N.	139½	E.	South of Honshu, Japan.
17	06 21 43*	6	S.	155	E.	Solomon Islands.
17	10 04 46*	5½	S.	152	E.	New Britain. Felt at Rabaul.
17	11 32 48*	37	N.	140½	E.	Near east coast of Honshu, Japan. Felt on Honshu.

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Apr.	h m s	°		°		
17	14 06 06*	8	N.	85	W.	Off coast of Costa Rica.
17	16 42 21*	6½	S.	154½	E.	Solomon Islands.
18	03 11 55*	48½	N.	154½	E.	Kurile Islands.
18	05 10 16*	39	N.	143	E.	Off east coast of Honshu, Japan.
18	07 32 06*	20	S.	178	W.	Fiji Islands. h about 600 km.
18	09 03 27*	5	S.	143½	E.	New Guinea.
18	14 20 44*	53½	N.	162	E.	Off east coast of Kamchatka.
18	17 51 44*	49½	N.	156½	E.	Near south coast of Kamchatka.
18	19 07 19*	47½	N.	153	E.	Kurile Islands.
19	00 10 50*	30½	N.	141½	E.	South of Honshu, Japan.
19	04 03 26*	26½	N.	110½	W.	Gulf of California. Mag. about 6.
19	10 49 50*	10½	S.	161½	E.	Solomon Islands.
19	14 14 38*	22½	N.	143	E.	Volcano-Mariana Islands region. h about 200 km.
19	22 42 20*	52½	N.	161	E.	Off east coast of Kamchatka.
20	12 56 30*	19	N.	121½	E.	Off north coast of Luzon, P. I. Felt at Aparri and Calayan.
20	21 06 59*	38½	N.	122	W.	California. Felt in Napa County. Mag. 4½ (Berk).
20	21 15 00**					Sandwich Islands.
21	05 32 00*	24½	N.	122	E.	Near east coast of Formosa.
21	12 15 28*	8	S.	74	W.	Peru. h about 150 km.
21	20 14 47*	15	S.	174½	W.	Samoa Islands region. Mag. 6½.
21	22 37 18*	4½	S.	104	E.	Sumatra. Mag. 6½.
21	23 57 05*	6½	S.	131½	E.	Banda Sea.
22	05 39 07*	15	S.	174½	W.	Fiji Islands region.
22	09 08 13*	½	S.	120½	E.	Celebes.
22	10 02 43*	37	N.	31	E.	Southern Turkey.
22	21 12 45**					Solomon Islands region.
23	02 57 40*	45	N.	152	E.	Kurile Islands.
23	05 53 06*	30½	N.	130	E.	Ryukyu Islands.
23	04 52 47*	45½	N.	152	E.	Kurile Islands. h about 100 km.
23	10 58 35*	5½	S.	153	E.	New Britain region. Felt at Rabaul and Warangoi.
23	15 11 39*	15½	S.	176	W.	Fiji Islands region.
23	19 12 36*	4½	S.	153	E.	New Britain. Felt at Rabaul and Warangoi. h about 100 km.
24	13 09 41*	22	S.	170½	E.	Loyalty Islands.
24	17 21 10*	22	S.	170½	E.	Loyalty Islands aftershock.
24	17 38 35**					New Hebrides Islands.
24	18 09 14*	5	N.	83	W.	Pacific Ocean
25	08 35 06*	51½	N.	171½	W.	Fox Islands, Aleutian Islands.

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Apr.	h m s	°		°		
25	19 03 18*	52	N.	171	W.	Fox Islands, Aleutian Islands.
26	01 09 30*	44½	N.	152½	E.	Kurile Islands region. h about 100 km.
26	01 13 34*	22	S.	170	E.	Loyalty Islands aftershock.
26	09 25 54*	15	S.	168	E.	New Hebrides Islands.
27	08 12 58*	22	S.	176	W.	Tonga Islands region. h about 100 km.
27	14 58 58*	18	N.	120	E.	Off northwest coast of Luzon, P. I.
27	17 17 39*	42½	N.	143½	E.	Near east coast of Hokkaido, Japan. h about 100 km.
27	18 38 10*	23	S.	66	W.	Jujuy Province, Argentina. Felt at Antofagasta. h about 200 km.
27	19 03 50*	52½	N.	169	W.	Fox Islands, Aleutian Islands.
28	08 00 09*	29½	N.	114	W.	Northern Gulf of California.
28	11 28 14*	5	S.	153½	E.	Solomon Islands-New Britain region. Felt at Karoola, Rabaul and Warangoi.
28	11 47 40*	11	S.	74	W.	Peru. Mag. 6½.
28	16 00 50*	13	N.	141½	E.	Mariana Islands region.
29	05 07 35*	45	N.	100	E.	Outer Mongolia.
29	13 35 00*	60	N.	141	W.	Southeastern Alaska.
30	08 16 48*	36	N.	71	E.	Hindu Kush
30	13 54 44*	38	N.	103½	E.	Kansu Province, China.
30	14 08 00*	37½	N.	14	W.	Off coast of Portugal. Felt at Lisbon.
30	19 27 32*	21	S.	67½	W.	Southern Bolivia. h about 150 km. Mag. 6.

Date and Station		Phase (GCT) h m s
Apr. 1		
TUC	eP	01 54 50
	iP	54 53
	iS	55 17
	eL	55 20
Apr. 1		
COL	iP	09 28 30
Apr. 1		
COL	iP	10 44 04
Apr. 1		
BOZ	eP	14 18 47
BUT	iP	14 16 40
COL	iP	14 15 49
	i	16 15
HH	iP	14 16 27
RC	iP	14 19 16
	e	19 43
TUC	iP	14 19 35
Apr. 1		
BUT	eP	14 59 12
COL	eP	15 02 46
EUR	eP	14 58 34
HH	eP	14 59 31
TUC	eP	14 57 15
	eL	15 03 15
Apr. 1		
BOZ	eP	16 52 46
COL	iP	16 49 25
EUR	iP	16 52 51
HH	iP	16 52 20
RC	iP	16 53 29
TUC	eP	16 53 50
Apr. 1		
HH	i(P)	20 54 53
Apr. 1		
COL	eP	23 46 35
EUR	iP	23 49 56
HH	iP	23 49 28
	i	52 06
Apr. 2		
COL	iP	03 16 24
	i	16 32
	e	16 47
	eL	18 16

Date and Station		Phase (GCT) h m s
Apr. 2		
COL	iP	11 03 03
HH	eP	11 04 12
Apr. 2		
HH	eP	11 33 46
Apr. 2		
COL	eP	11 41 16
Apr. 2		
COL	eP	11 44 55
HH	e(P)	11 44 20
Apr. 2		
HH	iP	13 46 55
Apr. 2		
EUR	eP	14 27 22
Apr. 2		
EUR	eP	15 40 58
Apr. 2		
COL	eP	16 17 12
Apr. 2		
HH	e(P)	19 45 45
Apr. 2		
EUR	eP	21 07 15
HH	eP	21 08 00
Apr. 2		
BC	eP	21 55 45
	e	56 03
	eS	56 22
	eL	56 30
EUR	iP	21 55 25
HH	e(P)	21 57 25
SLC	eP	21 56 40
	e	57 49
TUC	eP	21 57 24
	e	59 17
Apr. 3		
EUR	eP	00 06 47
HH	e(P)	00 10 02
Apr. 3		
BOZ	eP	01 43 12
BUT	iP	01 43 06
COL	iP	01 41 07
	i	41 24
EUR	eP	01 43 04
HH	iP	01 42 57

Date and Station		Phase (GCT) h m s
SLC	eP	01 43 16
Apr. 3		
SJ	eP	02 13 49
Apr. 3		
BOZ	eP	02 36 13
	e	36 20
BUT	iP	02 36 13
	i	36 20
COL	iP	02 35 21
COLU	iP	02 35 31
HH	iP	02 36 05
SJ	eP	02 35 29
TUC	eP	02 37 05
TUC-T	eP	02 37 04
Apr. 3		
COL	eP	02 43 12
Apr. 3		
COL	iP	04 05 55
	iS	06 56
	iL	07 26
Apr. 3		
COL	iP	07 11 42
HH	e(P)	07 11 24
Apr. 3		
BOZ	eP	07 31 44
BUT	eP	07 31 44
COL	eP	07 30 48
	ePP	33 49
COLU	iP	07 31 08
HH	iP	07 31 37
	i	31 45
SJ	eP	07 31 01
Apr. 3		
BH	iP	08 27 40
	iS	29 15
BC	eP	08 34 23
	e	34 42
BOZ	eP	08 34 59
	e	35 20
	ePP	37 17
BUT	eP	08 35 05
	e	35 20
	e(PcP)	36 03
COL	iP	08 37 55
	iPP	40 40

Date and Station		Phase (GCT) h m s
COLU	iP	08 32 18
EUR	iP	08 34 47
HH	iP	08 35 22
SLC	eP	08 34 34
SJ	iP	08 30 36
TUC	iP	08 33 45
	ePcP	35 40
TUC-T	iP	08 33 44
WASH	iP	08 32 42
Apr. 3		
COL	iP	11 20 23
Apr. 3		
EUR	e(P)	18 48 00
Apr. 4		
BC	eP	02 07 28
COL	iP	02 07 54
	ipP	09 53
HONO	iP	02 03 47
HH	eP	02 08 03
SLC	eP	02 08 47
TUC	iP	02 07 33
	epP	09 32
TUC-T	iP	02 07 32
	epP	09 33
Apr. 4		
COL	iP	02 35 46
	ipP	36 03
HH	eP	02 36 53
Apr. 4		
HH	iP	04 16 40
Apr. 4		
COL	eP	05 07 48
Apr. 4		
BC	eP	07 30 27
BOZ	eP	07 30 39
COL	iP	07 29 21
	i	29 39
	i	29 53
	i	30 19
HH	eP	07 30 29
SJ	eP'	07 36 30
SIT	eP	07 29 37

Date and Station		Phase	(GCT) h m s
Apr. 4			
COL		iP	07 40 14
Apr. 4			
BC		eP	07 43 26
BOZ		eP	07 43 39
COL		iP	07 42 20
		i	42 38
		i	43 20
HH		eP	07 43 29
SIT		e(P)	07 42 35
Apr. 4			
COL		iP	08 08 22
Apr. 4			
COL		iP	09 30 27
		i	32 37
HH		iP	09 31 12
Apr. 4			
COL		iP	13 01 40
Apr. 4			
COL		iP	13 58 50
Apr. 4			
COL		iP	14 56 17
Apr. 4			
BC		e(P)	15 50 24
		e	50 33
BOZ		eP	15 51 49
COL		iP	15 50 28
EUR		iP	15 51 31
HH		eP	15 51 37
SIT		iP	15 50 44
Apr. 4			
BH		eP	16 40 44
		eS	47 44
Apr. 4			
COL		iP	16 56 46
		i	57 06
EUR		iP	16 57 47
HH		eP	16 57 54
Apr. 4			
EUR		eP	17 07 13
		eS	08 21
		eL	08 31
Apr. 4			
COL		eP	19 44 07
		iP	44 19
		eS	46 27
COL		iS	19 46 38
Apr. 4			
HH		i(P)	20 51 32
Apr. 4			
COL		eP	22 35 01
		i	35 10
		iS	36 16
		iL	36 34
Apr. 5			
SLC		eP	00 38 34
Apr. 5			
COL		iP	01 13 45
		i	14 45
		i	14 55
EUR		eP	01 13 25
HH		e(P)	01 13 52
Apr. 5			
EUR		eP	02 33 38
HH		iP	02 33 09
Apr. 5			
BC		eP	05 19 41
BUT		eP	05 19 05
COL		eP	05 15 49
		iP	15 52
EUR		iP	05 19 18
		i	19 36
HH		iP	05 18 48
		e	19 04
RC		iP	05 19 56
TUC		iP	05 20 18
TUC-T		iP	05 20 19
Apr. 5			
COL		iP	05 19 14
Apr. 5			
COL		iP	09 41 03
		i	41 16
EUR		eP	09 44 37
HH		eP	09 43 58
Apr. 5			
COL		iP	09 58 30
Apr. 5			
EUR		iP	10 02 04
TUC		e(P)	10 02 56
Apr. 5			
COL		eP	11 14 36
Apr. 5			
COL		eP	12 17 28
EUR		eP	12 21 06
Apr. 5			
HH		e(P)	14 43 09
Apr. 5			
HH		e(P)	14 56 07
SJ		e(P)	14 51 30
Apr. 5			
EUR		eP	16 00 07
HH		eP	16 00 41
TUC-T		eP	15 59 05
Apr. 5			
EUR		iP	16 22 10
Apr. 5			
EUR		iP	16 54 55
HH		eP	16 55 46
Apr. 5			
BOZ		e(P)	17 20 46
		e	21 49
BUT		e	17 36 02
EUR		eP	17 34 06
HH		eP	17 32 55
		e(S)	34 47
		eL	35 01
Apr. 5			
COL		eP	17 46 19
Apr. 5			
COL		iP	20 15 57
Apr. 5			
COL		iP	20 31 46
Apr. 5			
COL		eP	20 34 19
Apr. 5			
COL		iP	20 38 27
Apr. 6			
EUR		iP	05 59 14
HH		e(P)	05 59 19
RC		eP	06 00 54
TUC		eP	06 00 54
TUC-T		eP	06 00 54
Apr. 6			
EUR		eP	08 38 19
Apr. 6			
BC		eP	10 49 40
COL		iP	10 47 40
EUR		iP	10 49 33
HH		iP	10 49 27
Apr. 6			
COL		eP	13 32 43
HH		iP	13 35 02
Apr. 6			
HH		iP	14 24 22
Apr. 6			
COL		eP	16 06 40
RC		e(P)	16 00 24
Apr. 6			
BUT		eP	17 09 18
		e	09 48
		epP	09 58
EUR		iP	17 09 02
		ipP	09 40
HH		iP	17 09 31
		e	10 00
		epP	10 11
RC		eP	17 08 45
SJ		eP	17 04 50
		epP	05 16
TUC		iP	17 08 12
		e	08 39
TUC-T		iP	17 08 12
		i	08 39
		ipP	08 51
Apr. 6			
HH		i(P)	20 30 15
Apr. 6			
COL		eP	22 58 01
Apr. 7			
COL		eP	00 05 56
Apr. 7			
TUC		e(P)	01 00 11
Apr. 7			
TUC		e(P)	02 16 29
TUC-T		eP	02 16 29
Apr. 7			
EUR		eP	02 27 16
Apr. 7			
COL		eP'	03 48 31

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Date and Station		Phase (GCT) h m s
COL	iP'	03 48 40
	i	48 49
	i	49 19
EUR	eP'	03 47 42
HH	iP'	03 47 52
	ePKS	51 15
KIP	eP'	03 46 31
TUC	eP'	03 47 27
TUC-T	eP'	03 47 28
	e	48 13
Apr. 7		
EUR	eP	03 57 48
HH	e(P)	03 54 46
Apr. 7		
COL	iP	07 20 43
EUR	eP	07 20 20
HH	e(P)	07 20 52
TUC	eP	07 20 26
TUC-T	iP	07 20 27
Apr. 7		
COL	eP	08 09 04
Apr. 7		
KIP	eP	10 27 25
Apr. 7		
COL	iP	13 14 05
	e	15 37
EUR	eP	13 13 42
TUC	iP	13 13 43
TUC-T	iP	13 13 43
Apr. 7		
KIP	iP	13 29 18
Apr. 7		
COL	eP	14 34 51
HH	eP	14 34 12
Apr. 7		
HH	iP	15 32 02
Apr. 7		
BH	iP	15 42 30D
	iS	52 20
BC	iP	15 38 05D
	e	38 36
	e	43 01
BOZ	eP	15 37 05C

Date and Station		Phase (GCT) h m s
BUT	eP	15 36 57C
COL	iP	15 31 36C
COLU	iP	15 39 59D
EUR	iP	15 37 35D
HONO	eP	15 38 57
	ePPP	41 28
	eS	45 38
	iScS	47 42
	eL	48 26
HH	eP	15 36 35C
	iP	36 36D
	iPP	37 27
	e(S)	42 29
	iL	43 17
	iP'P'	16 12 00
KIP	iP	15 38 55C
RC	iP	15 37 43C
	ePP	39 07
	eS	43 26
	eL	46 15
	e(ScS)	47 42
SLC	eP	15 37 39C
	ePcP	39 35
SJ	iP	15 42 14D
	iL	16 07 51
	eP'P'	10 32
SIT	iP	15 33 49D
	iS	36 25
	iL	37 04
TUC	i	15 39 16
	iPcP	40 20
	iS	45 03
	eL	48 38
TUC-T	iP	15 38 43D
UK	iP	15 37 17D
	e	38 12
	e(PP)	38 48
	eS	42 36
	eL	45 49
WASH	eP	15 39 45
	iS	47 06
	eSS	50 59
	eL	52 21
Apr. 7		
SIT	eP	16 13 56
Apr. 7		
BC	eP	16 45 57
EUR	eP	16 44 27
HH	iP	16 44 26
RC	eP	16 45 36

Date and Station		Phase (GCT) h m s
SIT	eP	16 45 36
TUC	eP	16 46 34
Apr. 7		
RC	eP	16 57 18
	e	58 32
Apr. 7		
BC	eP	18 16 56
	i	17 03
BOZ	eP	18 16 38
	iP	16 42
	e	17 02
	e	17 16
BUT	eP	18 16 30
EUR	iP	18 16 41
HH	iP	18 16 16
	eP	18 14 22
RC	eP	18 17 06
SLC	eP	18 16 52
	e	17 39
SIT	e(pP)	18 16 07
	iS	22 19
	iScS	24 24
	e	24 48
	eL	27 30
TUC	iP	18 17 29
UK	eP	18 16 18
Apr. 7		
BOZ	eP	18 41 48
BUT	eP	18 41 45
EUR	iP	18 41 53
HH	iP	18 41 27
KIP	eP	18 39 25
RC	eP	18 42 17
SLC	eP	18 42 04
SIT	eP	18 39 49
TUC	eP	18 42 38
Apr. 7		
EUR	eP	18 48 18
HH	iP	18 47 53
RC	eP	18 48 43
Apr. 7		
BC	e(P)	18 50 15

Date and Station		Phase (GCT) h m s
BOZ	eP	18 49 55
	e	50 16
BUT	eP	18 49 47
EUR	iP	18 50 01
HH	iP	18 49 32
KIP	eP	18 47 37
RC	eP	18 50 23
SLC	eP	18 50 13
SIT	eP	18 47 50
TUC	eP	18 50 44
Apr. 7		
EUR	eP	18 58 53
HH	eP	18 58 27
Apr. 7		
EUR	iP	19 01 26
HH	eP	19 00 57
	i	01 01
RC	eP	19 01 50
SLC	eP	19 01 37
TUC	e(P)	19 02 10
Apr. 7		
HH	iP	19 21 23
Apr. 7		
BC	eP	19 26 47
BOZ	eP	19 26 05
	e	26 18
BUT	eP	19 26 02
	e	26 21
	e(PP)	29 20
EUR	iP	19 26 27
HH	iP	19 25 48
	i	26 02
	i	26 32
	i	27 01
KIP	eP	19 25 56
RC	iP	19 26 21
SLC	eP	19 26 27
SIT	iP	19 24 29
Apr. 7		
HONO	eP	20 14 21

Date and Station		Phase (GCT) h m s
Apr. 7		
COL	iP	20 34 40
	iS	35 20
	iL	35 27
EUR	eP	20 40 41
HH	iP	20 39 40
RC	e(P)	20 40 54
Apr. 7		
COL	iP	20 55 06
	iS	55 52
	iL	55 56
Apr. 7		
EUR	eP	21 01 01
HH	iP	21 00 00
Apr. 7		
COL	e(P)	22 42 10
HH	eP	22 47 02
Apr. 7		
HH	e(P)	22 53 33
Apr. 7		
COL	e(P)	23 17 30
Apr. 7		
EUR	eP	23 29 26
HH	eP	23 29 09
Apr. 8		
BC	eP	00 21 41
	i	21 45
BOZ	eP	00 20 43
	e	21 38
	eL	30 45
BUT	eP	00 20 32
	e	21 06
	e	21 29
COL	iP	00 15 12
	i	15 16
	iS	15 54
	iL	15 58
COLU	eP	00 23 40
EUR	iP	00 21 11
HH	iP	00 20 10
RC	eP	00 21 18
	iP	21 21
	eL	33 15
SLC	eP	00 21 14
	iP	21 18
	e	22 06
	e	22 43
SIT	eP	00 17 26
	eS	19 51
TUC	e(P)	00 22 20
	iP	22 23
	e	25 29
Apr. 8		
BH	iP	00 56 26
	iS	01 00 16
Apr. 8		
HH	iP	01 07 56
Apr. 8		
COL	iP	01 45 21
	iS	46 05
	eL	46 11
EUR	eP	01 51 13
Apr. 8		
SIT	eP	02 16 43
Apr. 8		
COL	eP	03 04 35
	eS	04 59
	eL	05 03
SIT	eP	03 06 04
Apr. 8		
COL	iP	04 02 18
	i	02 27
	iS	03 00
	iL	03 07
EUR	eP	04 08 22
HH	eP	04 07 18
	i	09 19
	e	15 59
RC	eP	04 08 30
Apr. 8		
EUR	eP	04 10 20
Apr. 8		
BH	iP	04 37 00
	iS	39 18
BOZ	eP	04 44 24
	e	44 32
BUT	eP	04 44 31
EUR	eP	04 44 21
HH	eP	04 44 47
RC	iP	04 43 49
SLC	eP	04 44 11
SJ	iP	04 38 34
	e(S)	41 02
TUC	eP	04 43 24
Apr. 8		
EUR	eP	04 49 35
Apr. 8		
COL	iP	05 30 12
Apr. 8		
COL	iP	07 16 23
	i	16 34
	eS	17 06
	eL	17 17
Apr. 8		
BUT	eP	07 22 15
EUR	eP	07 22 18
HH	eP	07 21 26
	i	21 55
RC	eP	07 23 01
Apr. 8		
COL	iP	07 23 20
	i	23 31
	iS	24 02
	iL	24 07
Apr. 8		
COL	i(P)	07 45 13
	i	46 03
EUR	eP	07 48 51
Apr. 8		
COL	eP	08 46 38
	i	46 43
	iS	47 13
	iL	47 20
Apr. 8		
COL	eP	09 42 20
	i	42 29
	iS	43 04
	iL	43 10
Apr. 8		
COL	iP	10 09 16
	i	09 27
	eS	10 02
	eL	10 10
EUR	eP	10 13 00
HH	eP	10 12 34
RC	eP	10 13 30
Apr. 8		
BUT	eP	10 24 52
	i	25 09
EUR	iP	10 24 02
	ipP	24 25
	iPcP	25 54
HH	iP	10 24 55
	e	25 57
RC	eP	10 26 08
SLC	eP	10 24 45
TUC	eP	10 25 41
Apr. 8		
COL	iP	10 37 43
	iS	38 31
	iL	38 36
Apr. 8		
HH	iP	10 42 41
Apr. 8		
COL	eP	11 03 22
	eS	04 05
	eL	04 12
Apr. 8		
COL	iP	11 16 07
	iS	16 55
	iL	17 03
Apr. 8		
COL	eP	12 32 46
	i	32 58
	eS	33 30
	eL	33 36
Apr. 8		
COL	e(P)	12 36 59
	i	37 09
Apr. 8		
EUR	iP	13 31 57
Apr. 8		
BC	iP	13 33 16
BUT	eP	13 33 50
COL	iP	13 33 50
	ipP	34 51
EUR	iP	13 33 22
	ipP	34 20
HH	iP	13 32 28
	i	33 52
RC	eP	13 31 37
SLC	eP	13 33 40
	epP	34 40
TUC	iP	13 33 24
Apr. 8		
BOZ	eP	14 12 43
COL	iP	14 09 21
EUR	iP	14 12 49
HH	iP	14 12 18
RC	iP	14 15 27

Date and Station		Phase (GCT) h m s
SIT	e(P)	14 10 17
TUC	eP	14 13 49
Apr. 8		
COL	eP	15 10 49
	i	10 59
	iS	11 34
	eL	11 40
Apr. 8		
EUR	eP	15 38 16
Apr. 8		
COL	eP	15 47 24
	i	47 34
	iS	48 07
	iL	48 12
EUR	eP	15 51 15
HH	eP	15 50 45
Apr. 8		
COL	eP	16 07 23
	i	07 35
	i(S)	08 17
	iL	08 23
Apr. 8		
COL	iP	17 01 58
HH	iP	17 01 09
Apr. 8		
BOZ	eP	17 24 19
EUR	eP	17 24 02
	iP	24 17
	e(PcP)	26 38
HH	e(P)	17 24 42
	iPcP	26 45
	i	26 58
RC	eP	17 23 40
	e(PPP)	25 07
TUC	eP	17 22 56
	i	26 29
Apr. 8		
COL	eP	17 40 31
	i	40 41
	eS	41 15
	eL	41 22
Apr. 8		
COL	iP	17 57 56
	i	58 08
	iS	58 46
	iL	58 51
HH	eP	17 58 45
Apr. 8		
COL	eP	18 56 03
	iP	56 09
COL	i	18 56 34
	iS	57 49
	iL	58 09
Apr. 8		
BOZ	eP	18 55 41
EUR	eP	18 56 57
HH	eP	18 56 33
RC	e(P)	18 56 59
SLC	eP	18 56 18
	e	57 11
Apr. 8		
EUR	eP	19 20 12
HH	eP	19 19 40
Apr. 8		
COL	iP	19 25 10
	i	25 18
	iS	25 55
	iL	26 00
Apr. 8		
COL	iP	19 54 03
	i	54 13
	iS	54 39
	iL	54 48
EUR	eP	20 00 02
HH	iP	19 59 02
SLC	e(P)	19 57 58
	e	58 35
	e	59 07
Apr. 8		
EUR	eP	20 06 02
HH	iP	20 05 37
Apr. 8		
COL	iP	20 12 55
	i	13 10
	iS	13 52
	iL	13 57
Apr. 8		
HH	eP	21 34 34
	i	35 10
Apr. 8		
COL	eP	22 09 51
	i	10 03
	iS	10 41
	iL	10 48
Apr. 8		
RC	eP	22 31 50
Apr. 8		
COL	iP	23 49 15
	i	49 26
	iS	50 04
	iL	50 10
Apr. 9		
HONO	eP	00 34 13
Apr. 9		
EUR	eP	01 59 58
RC	eP	02 00 18
Apr. 9		
HH	e(P)	02 09 22
SIT	eP	02 09 05
Apr. 9		
COL	eP	04 48 56
	eS	49 43
	iL	49 50
EUR	eP	04 55 32
SIT	e(P)	04 49 56
Apr. 9		
EUR	eP	04 58 09
Apr. 9		
BC	eP	06 20 49
	e	21 09
BOZ	eP	06 19 53
	e	20 28
	e	21 16
	e	21 43
	eL	25 34
BUT	eP	06 19 42
	e	20 34
COL	iP	06 17 34
	iS	19 18
	iL	19 32
COLU	iP	06 23 29
	iPP	25 24
	iL	38 28
EUR	iP	06 20 15
HH	iP	06 19 15
	i	19 43
RC	iP	06 20 44
	e(S)	27 18
SLC	iP	06 20 25
	e	20 33
	ePP	21 12
SJ	eP	06 26 07
SIT	iP	06 15 50
	iS	16 14
TUC	iP	06 21 33
	i	21 48
TUC-T	iP	06 21 33
	iPP	22 39
UK	iP	06 19 49
Apr. 9		
HH	eP	08 11 42
Apr. 9		
COL	iP	10 29 08
	i	29 12
	iS	29 37
	iL	29 40
HH	eP	10 34 01
	iP	34 04
Apr. 9		
BC	eP	11 14 09
	e	14 16
	eS	14 56
	eL	15 14
EUR	iP	11 14 30
	i	14 42
	iS	15 21
	iL	15 27
TUC	e(P)	11 15 41
	e	17 12
TUC-T	e	11 17 11
Apr. 9		
COL	iP	12 20 20
	iS	21 05
	iL	21 18
Apr. 9		
BC	eP	13 09 23
EUR	eP	13 10 08
TUC	eP	13 08 38
TUC-T	eP	13 08 34
Apr. 9		
COL	eP	15 48 31
	i	48 41
	iS	49 18
	iL	49 27
Apr. 9		
COL	iP	16 13 24
	i	13 31
	iS	14 00
	iL	14 10
EUR	iP	16 22 14
TUC	eP	16 21 07
TUC-T	eP	16 21 04

Date and Station		Phase	(GCT) h m s
Apr. 9			
COL		eP	18 10 55
EUR		eP'	18 16 39
HH		eP'	18 16 09
Apr. 9			
COL		iP	18 35 33
		i	35 43
		eS	36 18
		eL	36 24
Apr. 9			
COL		iP	18 53 40
		iS	54 29
		iL	54 34
Apr. 9			
BC		eP	19 56 03
		e	56 11
BUT		eP	19 56 37
EUR		iP	19 56 21
HH		iP	19 56 52
RC		eP	19 56 14
		i	56 23
TUC		eP	19 55 44
TUC-T		e(P)	19 55 34
		i	55 43
Apr. 9			
COL		iP	20 40 58
		i(S)	41 45
		iL	41 54
Apr. 9			
HH		e(P)	21 16 24
Apr. 10			
COL		iP	01 01 27
		i(S)	02 12
		iL	02 20
HH		iP	01 06 28
Apr. 10			
BC		eP	01 17 03
BUT		eP	01 16 39
COL		eP	01 14 15
EUR		iP	01 16 50
HH		iP	01 16 31
RC		eP	01 17 10
Apr. 10			
EUR		eP	01 22 57
RC		eP	01 22 20

Date and Station		Phase	(GCT) h m s
Apr. 10			
HH		eP	01 28 36
Apr. 10			
BC		eP	01 54 36
		e	54 45
COL		iP	01 50 28
		i	50 49
		iPP	51 15
EUR		iP	01 54 13
HH		iP	01 53 38
RC		iP	01 54 39
		i	54 44
SLC		eP	01 54 26
TUC		iP	01 55 09
TUC-T		eP	01 55 09
Apr. 10			
COL		iP	02 23 16
		iS	23 29
		iL	23 32
Apr. 10			
COL		eP	03 49 54
EUR		iP	03 49 31
TUC		iP	03 49 31
TUC-T		iP	03 49 31
		e	51 24
Apr. 10			
COL		iP	04 20 35
		i(S)	21 26
		iL	21 32
Apr. 10			
COL		eP	05 41 51
		i	42 02
		iS	42 38
		iL	42 42
Apr. 10			
EUR		eP	05 34 11
		eS	35 11
		eL	35 15
Apr. 10			
HH		iP	09 53 51
Apr. 10			
COL		iP	10 09 36
		iS	10 13
		iL	10 25
EUR		eP	10 15 39
HH		iP	10 14 37
TUC		e(P)	10 16 48

Date and Station		Phase	(GCT) h m s
TUC-T		e(P)	10 16 47
Apr. 10			
SJ		iP	10 26 21
		iPP	28 03
Apr. 10			
BOZ		eP	11 07 38
COL		iP	11 04 47
EUR		eP	11 08 08
HH		iP	11 07 21
RC		eP	11 07 55
Apr. 10			
COL		iP	11 39 25
RC		eP	11 36 17
Apr. 10			
BC		eP	12 02 00
BOZ		eP	12 01 40
BUT		eP	12 01 31
		e	01 41
COL		iP	11 58 40
		eS	12 05 35
		eL	09 37
EUR		iP	12 01 44
HH		iP	12 01 19
RC		eP	12 02 08
SLC		eP	12 01 56
		e	02 03
TUC		eP	12 02 27
		e	02 35
TUC-T		eP	12 02 27
Apr. 10			
EUR		eP	12 28 59
Apr. 10			
BC		eP	13 30 11
		epP	30 43
BOZ		eP	13 30 39
		epP	31 13
		esP	31 26
BUT		eP	13 30 47
		e(PcP)	31 04
		epP	31 18
		e	31 40
COLU		iP	13 28 30
EUR		iP	13 30 28
		ipP	31 02

Date and Station		Phase	(GCT) h m s
HH		iP	13 30 57
		ipP	31 31
		isP	31 49
		i	32 07
RC		iP	13 30 13
		ipP	30 46
		ePP	32 38
SLC		eP	13 30 32
		epP	31 04
TUC		iP	13 29 40
		ipP	30 13
		eP'P'	57 58
TUC-T		iP	13 29 40
		ipP	30 12
		eP'P'	57 49
WASH		eP	13 29 01
Apr. 10			
COL		eP	13 53 10
		i	53 20
		iS	53 49
		iL	53 54
Apr. 10			
COL		iP	15 51 45
EUR		iP	15 55 34
RC		eP	15 55 57
Apr. 10			
EUR		eP	16 27 45
Apr. 10			
EUR		eP	16 55 32
Apr. 10			
TUC		iP	17 23 08
Apr. 10			
BOZ		eP	19 22 33
BUT		eP	19 22 31
COL		iP	19 22 31
		ipP	23 21
EUR		iP	19 22 00
HH		iP	19 22 32
		e	22 40
RC		e(P)	19 22 54
SLC		eP	19 22 18
TUC		iP	19 22 01
		epP	22 47
TUC-T		iP	19 22 02
		epP	22 48
UK		eP	19 21 36

Date and Station		Phase (GCT) h m s
Apr. 10		
COL	iP	20 22 52
	iS	23 45
	iL	23 51
HH	iP	20 27 50
Apr. 10		
BC	eP	23 15 57
COL	iP	23 09 21
	iS	09 44
	iL	09 50
EUR	iP	23 15 27
HH	iP	23 14 25
RC	eP	23 15 33
TUC-T	eP	23 16 36
Apr. 10		
EUR	eP	23 18 06
Apr. 10		
BH	iP	23 19 02
	iPP	20 02
	iS	23 57
	iSS	25 06
	eL	26 34
BC	eP	23 20 41
BOZ	eP	23 21 57
BUT	eP	23 21 58
	e	22 27
COL	eP	23 24 41
	eS	34 26
	e	37 30
	eL	46 29
COLU	iP	23 21 14
EUR	iP	23 21 05
	i	21 26
HH	eP	23 22 13
	iP	22 15
RC	iP	23 21 40
SLC	eP	23 21 17
	e	21 35
SJ	eP	23 21 15
TUC	iP	23 20 08
	e	20 40
	ePP	21 36
	eS	26 04
	eL	28 50
TUC-T	eP	23 20 06

Date and Station		Phase (GCT) h m s
Apr. 10		
EUR	eP	23 42 36
HH	iP	23 40 25
	i	40 58
RC	eP	23 43 06
Apr. 10		
COL	iP	23 48 57
	i	49 18
	iS	49 29
	iL	49 32
Apr. 11		
EUR	eP	01 09 05
RC	eP	01 09 33
Apr. 11		
BC	eP	01 10 08
BOZ	eP	01 09 48
	ePcP	10 10
BUT	eP	01 09 40
	ePcP	10 17
COL	iP	01 06 48
	iS	13 38
	eScS	16 41
	eL	17 32
EUR	iP	01 09 51
HH	iP	01 09 26
RC	iP	01 10 16
SLC	eP	01 10 02
	e	10 15
TUC	eP	01 10 37
TUC-T	eP	01 10 35
	e	10 42
Apr. 11		
COL	iP	03 58 48
	i	59 00
	iS	59 47
	iL	59 55
Apr. 11		
BH	eP	04 02 06
	i	10 19
BC	eP	04 04 06
BOZ	e(P)	04 05 01
EUR	eP	04 04 35
HH	iP	04 05 26
RC	eP	04 04 27
TUC	eP	04 03 20

Date and Station		Phase (GCT) h m s
TUC	eL	04 10 11
TUC-T	iP	04 03 19
	i	03 31
	e(PcP)	06 18
Apr. 11		
BC	eP	04 44 28
EUR	eP	04 44 58
HH	eP	04 45 59
RC	eP	04 45 29
TUC	e(P)	04 43 51
TUC-T	eP	04 43 52
Apr. 11		
COL	iP	05 48 43
	i	48 54
	iS	49 32
	iL	49 41
Apr. 11		
BH	iP	09 13 41
	iS	14 25
EUR	eP	09 20 48
HH	iP	09 21 25
RC	eP	09 20 21
SJ	eP	09 17 10
TUC	eP	09 19 42
TUC-T	eP	09 19 43
Apr. 11		
COL	iP	09 48 39
	i	48 45
	iS	49 10
	iL	49 17
Apr. 11		
EUR	eP	11 21 20
TUC	eP	11 19 56
	e	20 09
TUC-T	eP	11 19 55
	e	20 09
Apr. 11		
COL	iP	12 17 57
	i	18 24
	iS	19 51
	iL	20 05
HH	iP	12 22 39
Apr. 11		
COL	iP	12 28 30
	iS	29 35
	iL	29 43

Date and Station		Phase (GCT) h m s
Apr. 11		
EUR	eP	13 01 55
HH	eP	13 01 27
Apr. 11		
EUR	eP	13 23 38
Apr. 11		
EUR	eP	15 09 07
Apr. 11		
EUR	eP	17 22 22
Apr. 11		
BOZ	eP	17 34 46
COL	eP	17 31 27
	iP	31 39
	i	31 50
	e(S)	35 09
	eL	37 13
EUR	iP	17 34 52
HH	iP	17 34 23
	i	34 38
	ePcP	36 53
RC	iP	17 35 32
	e	35 47
Apr. 11		
BOZ	eP	18 02 32
COL	iP	17 59 10
	i	59 25
	eS	18 02 55
	eL	04 10
EUR	iP	18 02 37
HH	iP	18 02 07
RC	eP	18 03 17
Apr. 11		
COL	iP	18 13 14
EUR	iP	18 16 37
HH	eP	18 16 07
	e	18 25
RC	e(P)	18 15 12
	e	17 18
Apr. 11		
COL	eP	18 40 43
	iS	41 33
	eL	41 37
Apr. 11		
COL	iP	19 46 34
	i	46 40
	iS	47 32
	iL	47 38

Date and Station		Phase	(GCT) h m s
Apr. 11			
EUR		eP	20 22 01
HH		eP	20 22 44
Apr. 11			
HH		iP	22 59 49
		iS	23 00 20
Apr. 11			
BC		eP	23 22 06
		e	22 21
		epP	22 41
BOZ		eP	23 21 39
		e	22 15
		e(S)	29 55
		eP'P'	50 34
		e	50 55
BUT		eP	23 21 33
		epP	22 05
COL		iP	23 18 20
		iS	23 46
		i	24 40
		eL	26 27
COLU		iP	23 23 59
		ipP	24 32
EUR		iP	23 21 48
		ipP	22 22
		iP'P'	50 33
HONO		eP	23 19 55
		eS	26 49
		eL	30 32
HH		iP	23 21 17
		iP'P'	49 57
		i	51 03
KIP		iP	23 19 56
RC		iP	23 22 13
		ipP	22 47
		iS	30 57
		iP'P'	50 34
SLC		eP	23 21 59
		e	23 16
SIT		iP	23 19 24
		i	20 20
		eS	25 40
		i	29 12
		eL	30 36
TUC		iP	23 22 38
		i	23 47
		ePP	25 21
		eS	31 49
		eL	41 34
		eP'P'	50 31
TUC-T		iP	23 22 38
		ePP	25 18
		iP'P'	50 31
TUC		eSKPP'	23 53 28
UK		eP	23 21 20
		e(P'P')	53 28
Apr. 11			
EUR		eP	23 36 33
		e	37 48
Apr. 11			
EUR		eP'	23 42 51
HONO		iP	23 36 10
KIP		eP	23 36 11
Apr. 12			
EUR		iP	01 16 29
		i	16 50
TUC		iP	01 16 31
		e	18 30
TUC-T		eP	01 16 31
		e	18 29
Apr. 12			
COL		iP	09 31 31
		i	31 42
		iS	32 21
		eL	32 28
Apr. 12			
COL		eP	10 12 29
		i	12 37
		iS	13 15
		iL	13 22
Apr. 12			
BC		eP	10 27 26
		eL	30 31
BUT		eP	10 29 27
		e	30 21
COL		iP	10 33 15
		eL	50 00
EUR		iP	10 28 14
HH		iP	10 29 52
RC		iP	10 28 16
		eL	35 18
SLC		eP	10 28 23
		e	28 38
TUC		iP	10 26 20
		e	26 42
		e(S)	27 56
		eL	27 58
TUC-T		iP	10 26 22
UK		eP	10 28 49
Apr. 12			
BH		iP	11 53 52
BH		iPP	11 55 12
		iPPP	55 28
		iS	12 00 12
		iSS	02 50
		iSSS	03 40
		eL	05 16
BC		eP	11 49 28
		e	49 51
		eS	52 08
		eL	53 27
BUT		eP	11 51 31
		e	52 12
COL		iP	11 55 17
		i	55 24
		i	55 44
		iPcP	57 04
		eS	12 01 54
		e	04 34
		eL	05 28
COLU		iP	11 52 45
		iS	57 41
		eL	59 50
EUR		iP	11 50 17
HONO		eP	11 55 07
		iS	12 01 43
		eL	04 50
HH		iP	11 51 55
		i	52 02
		iPP	52 22
		e(S)	55 59
		eL	56 04
RC		eP	11 51 19
		iP	51 21
		e(S)	54 59
		iL	56 26
SLC		eP	11 50 26
		e	52 16
SJ		iP	11 54 56
		ePcP	56 52
TUC		iP	11 48 25
		i	48 36
		e(S)	49 18
		eL	49 20
TUC-T		eP	11 48 25
UK		iP	11 50 56
		e(S)	54 14
		eL	56 36
WASH		e(P)	11 53 39
		iL	12 03 08
Apr. 12			
EUR		eP	12 49 57
Apr. 12			
EUR		eP	13 23 49
Apr. 12			
BC		eP	13 33 56
BUT		eP	13 38 34
		e	38 47
COL		iP	13 36 13
		i	37 23
		eS	44 54
		eSS	49 28
		eL	53 42
EUR		iP	13 38 43
		ePKKP	56 22
HH		iP	13 38 24
		i	38 32
		i	39 01
		eSKS	59 03
		i	29 29
RC		eP	13 39 02
SIT		eP	13 37 09
		i	37 21
TUC		e(P)	13 39 37
		ePP	43 26
Apr. 12			
COL		eP	13 45 04
Apr. 12			
COL		eP	14 04 45
Apr. 12			
COL		iP	15 27 46
		iS	28 36
		iL	28 41
EUR		iP	15 33 45
HH		iP	15 32 45
Apr. 12			
COL		iP	18 13 53
		iS	14 39
		iL	14 46
Apr. 12			
COL		eP	20 54 48
Apr. 12			
EUR		eP	21 53 02
Apr. 12			
BUT		eP	22 38 33
		eS	39 47
		eL	40 02
COL		eP	22 42 14
EUR		iP	22 39 22
		iS	41 17
		eL	41 38
HH		iP	22 38 13
		i	38 26

Date and Station		Phase (GCT) h m s
HH	iS	22 39 06
	iL	39 18
Apr. 12		
COL	iP	23 45 11
	iS	45 56
	iL	46 03
Apr. 13		
HH	eP	00 25 25
Apr. 13		
COL	iP	00 53 26
	iS	54 20
	iL	54 26
Apr. 13		
COL	iP	00 59 59
	iS	01 00 53
	iL	00 58
Apr. 13		
COL	iP	01 49 35
	i	49 48
	iS	50 27
	iL	50 32
EUR	iP	01 55 34
HH	eP	01 54 32
TUC	eP	01 56 45
TUC-T	eP	01 56 44
Apr. 13		
EUR	eP	02 10 15
RC	eP	02 10 47
Apr. 13		
HH	iP	03 22 03
	iS	22 20
Apr. 13		
COL	eP	04 18 52
EUR	eP	04 21 54
HH	iP	04 21 17
RC	eP	04 21 52
Apr. 13		
EUR	eP	05 24 23
TUC	e(P)	05 25 43
Apr. 13		
COL	iP	05 43 55
	i	44 04
	iS	44 42
	iL	44 47
Apr. 13		
COL	eP	08 37 23
	e	39 04

Date and Station		Phase (GCT) h m s
EUR	eP	08 37 03
HH	iP	08 37 31
TUC	iP	08 37 05
TUC-T	iP	08 37 05
Apr. 13		
BC	eP	09 14 47C
	ePcP	16 37
BOZ	eP	09 13 48C
	e	14 10
	e	15 27
BUT	eP	09 13 40C
	e	14 12
COL	iP	09 08 16D
	i	08 18
COLU	iP	09 16 43C
	e(PKKP)	35 03
EUR	iP	09 14 17C
HH	iP	09 13 17C
	iPP	14 03
	iL	20 40
RC	iP	09 14 25C
	eL	26 21
SLC	eP	09 14 21
	e	14 59
	ePP	16 05
SJ	eP	09 18 56C
	e(PcP)	19 14
SIT	eP	09 10 35C
	eS	13 08
	eL	14 15
TUC	iP	09 15 27C
	i	15 31
	eScS	25 26
	eL	30 27
TUC-T	iP	09 15 27C
	e(S)	22 03
UK	iP	09 13 59D
WASH	eP	09 16 27D
	e(S)	23 42
	eSS	27 41
	iL	33 27
Apr. 13		
BC	eP	12 39 11
	e	40 26
	eP'P'	13 08 42
BOZ	eP	12 38 38
	e	39 21

Date and Station		Phase (GCT) h m s
BUT	eP	12 38 30
	ePcP	39 47
COL	iP	12 35 02
	iS	39 47
	iL	41 02
COLU	iP	12 41 18
EUR	iP	12 38 48
	eP'P'	13 08 24
	i	10 04
HONO	iP	12 37 24
	iPcP	39 20
	i(ScP)	43 00
	iS	44 02
	eL	47 32
HH	iP	12 38 12
	eP'P'	13 08 57
	e	10 43
RC	iP	12 39 14
	eL	13 01 31
	eP'P'	08 47
	i	10 34
SLC	eP	12 38 59
	e	39 20
	ePP	41 25
SIT	eP	12 36 16
	eL	42 20
	eScS	46 30
TUC	eP	12 39 44
	i	39 51
	eS	48 19
	eL	13 00 17
	eP'P'	08 33
	e	11 01
UK	eP	12 38 21
	ePcP	39 34
	eL	54 20
WASH	eP	12 40 56
	eL	13 07 30
Apr. 13		
EUR	eP	15 07 36
Apr. 13		
COL	iP	20 07 47
	i	07 58
	iS	08 37
	iL	08 42
Apr. 13		
EUR	eP	22 06 43
TUC	eP	22 04 50
	eS	06 23
	eL	06 30
TUC-T	eP	22 04 52
	e(S)	06 23
	eL	06 32

Date and Station		Phase (GCT) h m s
Apr. 14		
BC	eP	03 00 34
	e	00 49
BOZ	eP	03 00 10
BUT	eP	03 00 01
	e	00 15
	e	00 42
COL	iP	02 56 49
EUR	iP	03 00 14
HH	iP	02 59 43
	ePcP	03 00 36
RC	iP	03 00 41
	i	00 55
	ePKKP	19 23
	eP'P'	29 01
	e	31 37
SLC	eP	03 00 28
TUC	eP	03 01 06
	i	01 20
TUC-T	eP	03 01 06
	i	01 20
Apr. 14		
COL	iP	03 13 11
EUR	iP	03 19 13
HH	iP	03 18 11
	ipP	18 37
Apr. 14		
COL	iP	03 34 38
HH	iP	03 39 36
	i	39 58
Apr. 14		
EUR	eP	04 00 24
HH	eP	04 00 05
Apr. 14		
EUR	eP	05 56 59
Apr. 14		
COL	iP	06 42 58
	i	42 07
	iS	43 44
	iL	43 52
Apr. 14		
BH	eP	09 38 48
	eS	45 55
Apr. 14		
BC	eP	13 29 15
BOZ	eP	13 30 28

Date and Station		Phase	(GCT) h m s
EUR	iP		13 29 47
HH	eP		13 30 50
	e		32 36
RC	eP		13 30 08
TUC	iP		13 28 33
	e		31 24
	eL		35 56
TUC-T	iP		13 28 34
Apr. 14			
COL	iP		14 21 54
	i		22 06
	iS		22 50
	iL		22 56
Apr. 14			
TUC	e(P)		14 54 15
Apr. 14			
HH	eP		16 09 02
Apr. 14			
HH	iP		16 39 21
Apr. 14			
COL	iP		18 14 34
EUR	iP		18 18 21
	i		18 39
HH	eP		18 17 44
RC	iP		18 18 47
SLC	eP		18 18 31
TUC	e(P)		18 19 17
Apr. 14			
COL	eP		18 44 45
Apr. 14			
COL	eP		19 34 36
	e		35 22
EUR	iP		19 34 53
	ipP		35 29
Apr. 14			
BH	iP		21 34 32D
BC	eP		21 41 11D
	iP		41 12D
	e		41 32
	ePP		43 13
BOZ	eP		21 41 4[illegible]C
	e		42 23
BUT	eP		21 41 53D
	e		42 05
	ePcP		43 17
COL	iP		21 44 39D
	i		44 42

Date and Station		Phase	(GCT) h m s
COL	iPP		21 47 47
	iS		54 39
	e		58 16
	eSS		59 56
	eSSS		22 04 20
	eL		05 34
COLU	iP		21 39 07C
	i		39 09D
	iPP		40 23
	eS		44 25
EUR	iP		21 41 32C
	i		42 13
HONO	eP		21 44 46
	iS		54 36
	i		55 28
	iSS		59 46
	i		22 03 26
	eL		06 04
HH	eP		21 42 09D
	i		42 10C
	i		42 23
	e		47 58
KIP	eP		21 44 45
RC	iP		21 41 10C
	eS		48 06
	eL		52 35
SLC	eP		21 41 23D
	e		41 46
	e		44 08
SJ	iP		21 37 26C
	eS		41 28
	eL		43 38
TUC	iP		21 40 31D
	iPcP		42 19
	iPP		40 39
	iS		46 49
	iScS		50 32
	iL		52 51
UK	eP		21 42 06D
	i		42 13
	eL		54 07
WASH	iP		21 39 49D
	e		41 16
	i(S)		44 49
	eL		48 19
Apr. 14			
BH	iP		21 50 34
Apr. 14			
EUR	eP		22 23 26
Apr. 14			
BC	eP		22 57 16
	e		57 29
BUT	eP		22 57 59

Date and Station		Phase	(GCT) h m s
COL	eP		23 00 45
	e		01 28
COLU	iP		22 55 09
EUR	iP		22 57 36
	i		58 22
HH	eP		22 58 12
	i		58 18
	e		58 42
RC	iP		22 57 13
SLC	eP		22 57 26
	e		58 01
SJ	iP		22 53 28
	e		53 47
	e(S)		57 55
TUC	eP		22 56 34
WASH	eP		22 55 54
Apr. 14			
COL	iP		23 09 07
	iS		09 39
	iL		09 43
Apr. 14			
COL	iP		23 48 45
	i		48 53
	iS		49 33
	iL		49 42
Apr. 15			
BH	iP		01 32 47
BC	eP		01 39 26
	i		39 30
	e		39 58
BOZ	eP		01 40 03
	ePcP		41 16
	ePP		42 08
BUT	eP		01 40 06
	ePcP		41 02
	ePP		42 14
COL	iP		01 42 55
	iS		52 53
	e		55 24
	eSS		58 18
	eSSS		02 02 06
	eL		04 20
COLU	iP		01 37 22
EUR	iP		01 39 48
HH	iP		01 40 24
RC	iP		01 39 25
SLC	eP		01 39 36
	e		40 01

Date and Station		Phase	(GCT) h m s
SJ	iP		01 35 41
	eS		39 56
	eL		42 14
TUC	iP		01 38 46
	ePcP		40 45
	e(PPP)		41 20
	eS		45 11
	iL		48 47
UK	iP		01 40 25
WASH	iP		01 38 04
	ePP		39 39
	eL		48 45
Apr. 15			
EUR	eP		02 38 10
Apr. 15			
EUR	eP		02 54 08
HH	eP		02 53 48
Apr. 15			
BH	iP		03 25 06
BC	eP		03 31 48
EUR	eP		03 32 10
HH	eP		03 32 47
RC	eP		03 31 42
SJ	eP		03 28 36
	e		29 16
TUC	eP		03 31 06
	i		31 12
Apr. 15			
BC	eP		04 00 08D
	e		00 16
	e		00 44
BOZ	eP		04 00 46C
	e		01 30
BUT	eP		04 00 52C
	e		01 49
	ePcP		02 43
COL	iP		04 03 58C
	iPP		06 33
	iS		13 22
	iScS		14 02
	e		17 02
	iSS		17 49
	eL		22 16
COLU	iP		03 58 11D
	iPP		59 27
	eS		04 02 39
	iS		03 00
	iL		03 44
EUR	iP		04 00 31C

Date and Station		Phase (GCT)
		h m s
EUR	e(PKKP)	04 19 08
	eP'P'	32 10
HH	iP	04 01 11C
	iPcP	02 25
	e(S)	08 46
	iL	12 18
RC	iP	04 00 07C
	e	01 44
	eS	06 16
	eL	14 46
	ePKKP	19 34
SLC	eP	04 00 20C
	e	01 00
SJ	iP	03 57 15D
	eS	04 01 16
	eL	03 23
TUC	iP	03 59 25C
	i	59 28
	ePP	04 00 46
	iS	05 05
	eL	10 21
UK	iP	04 01 08D
	ePcP	02 28
WASH	iP	03 59 01D
	eS	04 04 35
	eL	07 27
Apr. 15		
EUR	eP	04 12 37
	i	12 47
TUC	e(P)	04 13 53
Apr. 15		
EUR	eP	04 23 08
Apr. 15		
BH	iP	04 39 21
EUR	eP	04 44 50
TUC	eP	04 43 48
Apr. 15		
BH	iP	05 37 35
EUR	eP	05 43 08
HH	eP	05 43 47
TUC	eP	05 42 01
Apr. 15		
BH	iP	05 46 21
EUR	eP	05 52 49
HH	eP	05 53 33
RC	eP	05 52 30
SJ	eP	05 49 34

Date and Station		Phase (GCT)
		h m s
Apr. 15		
COL	iP	10 11 44
	i	12 20
EUR	eP'	10 19 58
HH	eP'	10 19 06
Apr. 15		
COL	iP	10 18 58
Apr. 15		
COL	iP	10 58 40
	i	58 51
	iS	59 34
	iL	59 40
Apr. 15		
COL	iP	11 03 45
	e(S)	07 29
	eL	08 09
EUR	eP	11 07 15
HH	eP	11 06 38
	i	06 42
	ePcP	09 18
RC	e(P)	11 08 15
TUC	eP	11 08 19
Apr. 15		
RC	e(P)	12 35 18
Apr. 15		
COL	iP	12 57 33
Apr. 15		
EUR	iP	13 01 00
HH	iP	13 00 29
	i	03 05
TUC	eP	13 02 04
Apr. 15		
COL	iP	15 46 25
EUR	eP	15 49 48
Apr. 15		
EUR	eP	16 17 46
Apr. 15		
COL	eP	18 15 02
	iP	15 10
	iS	15 50
	iS	15 55
Apr. 15		
COL	eP	18 50 45
	i	50 49
	iS	51 31
	iL	51 40
Apr. 15		
EUR	eP	21 17 15

Date and Station		Phase (GCT)
		h m s
TUC	eP	21 16 35
Apr. 15		
EUR	eP	21 38 46
Apr. 15		
RC	eP	21 50 11
Apr. 16		
COL	eP	04 45 15
	iP	45 23
	iS	46 44
	iL	46 54
Apr. 16		
TUC	eP	06 33 29
	e	35 13
TUC-T	eP	06 33 29
	e	35 13
Apr. 16		
COL	iP	06 41 15
	i	41 25
	iS	42 12
	iL	42 16
Apr. 16		
EUR	iP	07 10 16
RC	eP	07 10 41
Apr. 16		
EUR	eP	08 26 09
SJ	eP	08 21 14
TUC	eP	08 25 09
TUC-T	eP	08 25 08
Apr. 16		
EUR	eP	09 06 53
Apr. 16		
COL	iP	09 14 33
	iS	15 28
	iL	15 33
Apr. 16		
COL	eP	11 27 41
	iP	27 42
	iS	28 29
	iL	28 35
Apr. 16		
HH	eP	12 26 33
Apr. 16		
COL	iP	12 48 10
	i	48 49
EUR	ePP	12 53 49
	i	54 42
HH	iP	12 50 02
RC	ePP	12 55 13

Date and Station		Phase (GCT)
		h m s
SJ	eP'	12 55 52
Apr. 16		
BH	iP	13 05 32
	iS	06 26
Apr. 16		
EUR	eP	13 06 15
HH	eP	13 06 07
Apr. 16		
TUC	e(P)	13 17 05
Apr. 16		
EUR	eP	13 30 52
HH	iP	13 30 33
Apr. 16		
SJ	iP	14 35 32
	iS	35 55
	iL	35 56
Apr. 16		
HH	eP	17 46 33
Apr. 16		
COL	eP	21 28 05
	iP	28 06
	i	28 17
	iS	29 03
	iL	29 10
Apr. 16		
EUR	eP	21 42 13
Apr. 16		
BH	iP	21 48 10
	iS	49 04
EUR	eP	21 55 10
SJ	eP	21 51 45
Apr. 16		
COL	iP	22 04 08
	i	04 15
	iS	05 06
	iL	05 12
Apr. 16		
BH	iP	23 00 14
	iS	01 04
Apr. 17		
COL	eP	02 13 51
EUR	eP	02 14 47
HH	eP	02 15 12
Apr. 17		
BC	eP	02 29 01
COL	iP	02 28 02
	i	28 18
	i	28 55

Date and Station		Phase	(GCT) h m s
EUR		iP	02 28 51
		i	29 26
HH		eP	02 29 05
Apr. 17			
COL		iP	02 54 30
		iS	54 49
		iL	54 52
EUR		eP	02 58 16
HH		eP	02 57 54
Apr. 17			
EUR		eP	03 14 33
Apr. 17			
BH		iP	04 17 22
		iS	18 59
EUR		eP	04 23 56
HH		eP	04 24 35
Apr. 17			
EUR		iP	05 01 01
Apr. 17			
COL		eP	05 46 33
		eL	50 02
HH		eP	05 49 41
TUC		eP	05 51 28
Apr. 17			
BC		eP	06 35 06
COL		iP	06 34 07
		i	34 23
		i	35 22
EUR		iP	06 35 02
HH		eP	06 35 10
Apr. 17			
HH		iP	08 54 11
		iS	54 32
Apr. 17			
BC		eP	10 18 18
COL		iP	10 17 12
		eS	27 24
		eL	37 08
EUR		iP	10 18 14
HONO		eP	10 14 47
		eS	23 09
		eL	33 14
HH		eP	10 18 22
SIT		eP	10 17 29
		eL	44 30

Date and Station		Phase	(GCT) h m s
Apr. 17			
COL		iP	10 26 42
EUR		eP	10 27 19
Apr. 17			
COL		iP	10 44 00
Apr. 17			
BC		eP	11 44 54
		e	45 08
		e	45 19
BOZ		eP	11 44 32
		e	44 46
BUT		eP	11 44 26
COL		iP	11 41 38
		i	41 55
EUR		iP	11 44 37
		i	44 52
HH		iP	11 44 13
		i	44 27
		e	45 33
RC		iP	11 45 01
SLC		eP	11 44 48
		e	45 02
TUC		iP	11 45 20
		i	45 34
		i	45 48
		ePP	48 46
TUC-T		iP	11 45 19
		i	45 34
Apr. 17			
COL		iP	11 50 31
Apr. 17			
COL		iP	13 06 17
EUR		eP	13 05 53
TUC		e(P)	13 05 54
Apr. 17			
COL		eP	13 58 50
EUR		eP	13 53 14
HH		e(P)	13 53 31
Apr. 17			
BH		iP	14 07 29
		iS	08 41
BC		eP	14 13 40
BOZ		eP	14 14 19
EUR		eP	14 14 03
HH		eP	14 14 43

Date and Station		Phase	(GCT) h m s
HH		i	14 14 50
RC		eP	14 13 38
SLC		eP	14 13 52
		e	14 05
SJ		eP	14 10 56
TUC		eP	14 13 01
Apr. 17			
COL		eP	14 17 30
Apr. 17			
COL		eP	16 52 07
Apr. 17			
COL		eP	16 54 46
EUR		eP	16 55 41
		i	56 22
Apr. 17			
BC		eP	17 03 58
EUR		eP	17 04 33
SLC		eP	17 04 35
TUC		eP	17 03 04
TUC-T		iP	17 03 04
Apr. 17			
COL		iP	17 46 07
Apr. 17			
COL		iP	18 23 21
Apr. 17			
COL		eP	20 44 49
		iP	44 50
		i	45 03
		iS	45 39
		iL	45 45
Apr. 18			
BC		eP	03 22 32
BOZ		eP	03 22 06
BUT		eP	03 21 58
COL		iP	03 18 41
		i	18 49
EUR		iP	03 22 13
		i	22 31
HH		iP	03 21 42
RC		iP	03 22 39
TUC		eP	03 23 04
TUC-T		e(P)	03 23 04
		e	23 22

Date and Station		Phase	(GCT) h m s
Apr. 18			
COL		eP	05 18 02
		i	18 31
EUR		eP	05 22 17
HH		eP	05 21 50
Apr. 18			
COL		iP	05 35 37
EUR		eP	05 36 39
Apr. 18			
COL		iP	07 39 07
		i	39 12
		iS	39 59
		iL	40 05
Apr. 18			
BC		eP	07 43 29
BOZ		eP	07 44 07
BUT		eP	07 44 02
EUR		iP	07 43 34
		e	45 39
		ePKKP	08 01 54
COL		iP	07 43 55D
		i	44 16
		ipP	46 02
HH		iP	07 44 02
		iPKKP	08 01 40
TUC		iP	07 43 34
		ePKKP	08 01 54
		eP'P'	10 04
Apr. 18			
EUR		iP	08 23 13
Apr. 18			
COL		eP	09 16 07
Apr. 18			
COL		iP	13 52 34
EUR		eP	13 50 57
HH		eP	13 51 55
TUC		e(P)	13 50 29
TUC-T		eP	13 50 24
Apr. 18			
COL		iP	14 26 29
EUR		eP	14 30 18
HH		e(P)	14 29 33
RC		eP	14 30 43
Apr. 18			
COL		iP	17 58 13

Date and Station		Phase (GCT) h m s
EUR	eP	18 01 51
	i	02 06
Apr. 18		
COL	eP	19 14 20
EUR	eP	19 17 47
HH	iP	19 17 17
Apr. 18		
HONO	iP	20 46 33
	iS	46 51
	iL	46 53
Apr. 18		
HONO	iP	20 57 52
	eS	58 23
	iL	58 26
Apr. 18		
HH	eP	21 10 34
Apr. 18		
COL	eP	22 47 59
	i	48 08
EUR	eP	22 46 27
RC	eP	22 45 29
TUC	eP	22 45 13
Apr. 18		
COL	eP	23 36 19
Apr. 19		
BUT	eP	00 22 54
	e	23 04
COL	eP	00 20 18
EUR	eP	00 23 00
HH	iP	00 22 41
RC	eP	00 23 28
	e	24 02
TUC	eP	00 23 38
Apr. 19		
HH	i(P)	00 38 42
Apr. 19		
EUR	iP	00 58 49
RC	eP	00 58 42
TUC	eP	00 58 04
Apr. 19		
HH	eP	01 01 52
Apr. 19		
HH	iP	01 06 31
	iS	07 00

Date and Station		Phase (GCT) h m s
Apr. 19		
EUR	iP	01 10 47
HH	iP	01 11 19
	ipP	11 28
TUC	eP	01 10 06
	i	10 15
TUC-T	eP	01 10 07
	i	10 16
Apr. 19		
COLU	iP	02 29 54
EUR	eP	02 31 51
HH	e(P)	02 32 32
RC	e(P)	02 31 50
TUC	eP	02 30 46
TUC-T	iP	02 30 46
Apr. 19		
HH	eP	02 46 27
Apr. 19		
BC	eP	04 05 59
	e	06 23
	eL	08 35
BOZ	eP	04 07 55
	e	08 44
	e	09 06
	e	09 27
	eL	13 48
BUT	eP	04 08 00
	e	08 48
COL	eP	04 11 44
	iP	11 45
	i	12 14
	eS	18 34
	eScS	21 43
	eL	22 08
COLU	iP	04 09 06
EUR	eP	04 06 47
	iL	10 47
HH	iP	04 08 24
	e	19 03
RC	iP	04 07 46
	eL	13 33
SLC	eP	04 06 56
	e	07 11
SJ	eP	04 11 19
SIT	eP	04 10 27
	eL	17 36
TUC	iP	04 04 54

Date and Station		Phase (GCT) h m s
TUC	e	04 05 22
	e(S)	06 11
	eL	06 14
TUC-T	iP	04 04 54
	i	05 11
UK	eP	04 07 13
	e	07 27
Apr. 19		
EUR	eP	04 17 26
TUC	eP	04 15 34
	eL	17 37
TUC-T	eP	04 15 35
	eL	17 20
Apr. 19		
COL	iP	04 24 14
	i	24 22
	iS	24 52
	iL	24 57
EUR	eP	04 30 08
HH	eP	04 29 08
	i	29 11
	i	29 23
Apr. 19		
EUR	eP	05 12 55
Apr. 19		
EUR	eP	05 28 48
Apr. 19		
EUR	eP	06 17 59
Apr. 19		
COL	eP	10 30 50
Apr. 19		
COL	iP	11 02 21
EUR	iP	11 02 55
HH	e(P)	11 03 13
TUC	eP	11 03 09
TUC-T	eP	11 03 10
Apr. 19		
EUR	eP	11 06 26
Apr. 19		
EUR	eP	11 19 09
Apr. 19		
COL	iP	11 39 19
	i	39 28
	iS	40 11
	iL	40 18
Apr. 19		
BC	eP	14 27 02
	epP	27 46

Date and Station		Phase (GCT) h m s
BOZ	eP	14 26 55
BUT	iP	14 26 49
	ipP	27 33
EUR	iP	14 26 51
	ipP	27 35
HH	iP	14 26 40
RC	iP	14 27 22
	epP	28 12
TUC	eP	14 27 25
TUC-T	iP	14 27 25
Apr. 19		
TUC-T	eP	15 13 27
Apr. 19		
COL	eP	15 22 17
Apr. 19		
BH	iP	17 07 05
	eS	08 09
EUR	iP	17 13 32
HH	eP	17 14 12
TUC-T	eP	17 12 30
Apr. 19		
EUR	eP	17 26 19
Apr. 19		
EUR	eP	18 25 31
Apr. 19		
COL	iP	20 22 44
	i	22 53
	iS	23 19
	iL	23 32
HH	e(P')	20 27 12
Apr. 19		
HH	iP	20 45 09
Apr. 19		
EUR	eP	21 55 49
Apr. 19		
COL	eP	22 48 17
EUR	eP	22 52 03
RC	eP	22 52 28
Apr. 20		
COL	iP	00 22 09
	i	22 13
	i	22 22
	iS	22 55
	iL	23 00

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Date and Station	Phase	(GCT) h m s
Apr. 20		
RC	eP	01 20 12
Apr. 20		
COL	iP	04 12 09
EUR	eP	04 15 42
Apr. 20		
TUC	eP	06 05 16
TUC-T	eP	06 05 16
Apr. 20		
COL	eP	06 15 19
	iP	15 26
	e	18 48
EUR	eP	06 18 58
	i	19 10
HH	iP	06 18 24
RC	eP	06 19 37
Apr. 20		
BC	e(P)	07 18 50
EUR	eP	07 16 25
HH	e(P)	07 17 58
Apr. 20		
HH	eP	07 59 48
Apr. 20		
COL	iP	08 48 45
	i	48 46
	iS	49 40
	iL	49 50
EUR	eP	08 54 44
HH	iP	08 53 44
Apr. 20		
COL	iP	09 07 53
Apr. 20		
COL	iP	09 19 18
	iS	20 06
	eL	20 11
Apr. 20		
COL	eP	10 01 08
Apr. 20		
COL	iP	10 06 28
EUR	eP	10 05 57
TUC	e(P)	10 05 58
TUC-T	eP	10 05 57
Apr. 20		
COL	eP	13 08 02
HH	eP	13 10 04

Date and Station	Phase	(GCT) h m s
Apr. 20		
COL	iP	13 19 46
EUR	eP	13 20 40
Apr. 20		
COL	eP	15 05 28
	iP	05 29
	iS	06 14
	i	06 23
Apr. 20		
COL	iP	17 41 26
	i	41 38
	iS	42 20
	iL	42 27
Apr. 20		
COL	eP	18 01 32
	iP	01 48
	iS	02 42
	iL	02 48
RC	i(P)	18 05 56
SIT	e(P)	18 03 04
Apr. 20		
COL	iP	18 52 37
	i	52 44
	iS	53 33
	iL	53 39
Apr. 20		
EUR	eP	19 39 45
Apr. 20		
COL	iP	19 46 18
	i	46 34
	iS	47 19
	iL	47 35
Apr. 20		
EUR	eP	20 36 27
Apr. 20		
EUR	iP	21 08 14
	iS	09 20
	iL	09 33
TUC	e(P)	21 09 57
	eL	13 14
UK	iP	21 07 18
	e(S)	07 29
	eL	07 32
Apr. 20		
BOZ	eP	21 34 00
	e	35 55
BUT	eP	21 34 04
COL	eP	21 34 45
	iP	34 56
	i	35 08
	i	35 32
	i	35 56

Date and Station	Phase	(GCT) h m s
EUR	eP	21 33 56
	i	34 34
HH	iP	21 34 07
RC	eP	21 33 52
	e	34 14
SJ	iP	21 27 29
TUC	eP	21 33 41
TUC-T	eP	21 33 41
Apr. 20		
EUR	iP	21 43 50
	i	44 56
	i	45 12
RC	eP	21 43 59
TUC	eP	21 44 22
TUC-T	eP	21 44 21
Apr. 20		
EUR	eP	22 12 02
RC	eP	22 14 30
	e	15 54
Apr. 20		
COL	iP	22 53 37
	i	53 47
	iS	54 28
	iL	54 32
Apr. 21		
COL	iP	05 04 59
EUR	eP	05 05 23
HH	iP	05 04 31
RC	e(P)	05 05 51
TUC	eP	05 05 38
TUC-T	eP	05 05 37
Apr. 21		
BUT	eP	05 45 24
	e	45 43
COL	iP	05 43 05
EUR	eP	05 45 18
	i	45 33
HH	iP	05 45 14
SIT	eP	05 43 54
Apr. 21		
EUR	iP	06 03 58
HH	iP	06 03 26
RC	iP	06 04 25

Date and Station	Phase	(GCT) h m s
TUC	e(P)	06 04 49
Apr. 21		
COL	iP	06 35 32
	i	35 41
	iS	36 18
	iL	36 25
Apr. 21		
COL	iP	09 13 32
	i	13 44
	iS	14 27
	iL	14 32
EUR	eP	09 19 33
HH	iP	09 18 32
Apr. 21		
COL	iP	12 28 17
	ipP	29 00
EUR	iP	12 25 33
	ipP	26 09
HH	iP	12 26 05
	i	26 22
RC	eP	12 25 13
	e(pP)	25 52
SJ	eP	12 21 06
TUC	eP	12 24 37
TUC-T	iP	12 24 37
Apr. 21		
RC	eP	13 14 30
	e	15 27
Apr. 21		
COL	iP	17 02 01
	i	02 13
	iS	02 57
	iL	03 02
Apr. 21		
BC	eP	20 26 45
	e	27 15
	ePP	30 48
BOZ	eP	20 27 25
	e	27 54
	ePP	30 34
BUT	eP	20 27 20
	e	27 39
	ePP	30 27
COL	iP	20 27 10
	i	27 15
	eS	37 25
	eL	48 42
EUR	eP	20 26 43
	i	26 49
	ePKKP	44 32
	eP'P'	53 50

Date and Station		Phase (GCT)
		h m s
EUR	iP'P'	20 54 25
HONO	eP	20 22 27
	eS	28 36
	e	30 58
	eL	31 40
	eT	21 03 58
	iT	04 32
HH	eP	20 27 16
	i	27 23
	e	30 29
KIP	eP	20 22 (22)
RC	eP	20 27 47
	ePP	31 10
SLC	eP	20 27 08
	e	27 39
SIT	eP	20 27 02
	e(S)	37 33
	e(SS)	43 32
	eL	47 22
TUC	eP	20 26 49
	eL	49 49
TUC-T	eP	20 26 49
	iP	26 55
UK	eP	20 26 24
Apr. 21		
BH	iP	20 34 04
	iS	34 40
Apr. 21		
COL	iP	20 38 49
EUR	eP	20 38 25
TUC	eP	20 38 30
TUC-T	eP	20 38 31
Apr. 21		
BH	eP	20 45 43
	eS	46 16
Apr. 21		
EUR	eP	22 24 02
Apr. 21		
BC	eP'	22 56 36
	e	57 19
	ePKS	59 42
BOZ	eP'	22 56 27
	e	57 [illegible]
	ePP	58 09
BUT	eP'	22 56 25
	e	57 00
COL	iP	22 51 14
	iPP	55 18
	i	55 21

Date and Station		Phase (GCT)
		h m s
COL	i	22 56 11
	i	56 25
COLU	eP'	22 57 05
	iP'	57 10
EUR	e(P')	22 56 13
	iP	56 29
	i	57 19
	i	57 42
	iPP	58 44
	i	59 34
	i	23 01 26
	ePS	09 09
	i(PPPS)	10 01
HH	iP'	22 56 20C
	ipP'	57 09
	iPKS	59 39
RC	iP'	22 56 38
	iPP	59 53
	e(PKS)	23 01 20
SLC	eP'	22 56 34
	e	58 47
	ePP	59 39
SJ	eP'	22 57 24
	e	58 14
	e(PP)	23 02 00
TUC	eP	22 56 46
	epP	59 27
	iPP	23 00 00
	iPKS	00 29
	e	01 29
TUC-T	eP	22 56 34
	e	56 46
	epP	59 28
	ipP	59 58
	ePKS	23 01 22
UK	eP'	22 56 23
WASH	iP	22 56 59
	i	57 41
Apr. 22		
BH	iP	00 08 43
	iS	08 59
Apr. 22		
COL	iP	00 10 14
	iPP	14 17
EUR	eP	00 11 54
	ePP	15 10
HONO	eP	00 08 47
SJ	eP'	00 17 34
TUC	eP'	00 15 55
TUC-T	eP'	00 15 55

Date and Station		Phase (GCT)
		h m s
Apr. 22		
COL	iP	01 25 35
HH	e(P)	01 26 44
Apr. 22		
COL	iP	02 11 03
	i	11 13
	i	11 49
	iS	11 51
	iL	11 58
Apr. 22		
BC	eP	05 50 58
BUT	eP	05 51 41
COL	iP	05 51 30
EUR	eP	05 51 04
HONO	eT	06 28 33
	iT	28 57
HH	eP	05 51 27
TUC	eP	05 51 05
TUC-T	eP	05 51 06
Apr. 22		
COL	iP	06 29 45
HH	eP	06 28 56
Apr. 22		
COL	iP	07 10 35
	i	10 39
	iS	11 30
	iL	11 35
HH	eP	07 15 26
Apr. 22		
COL	iP	10 14 44
HH	eP	10 15 29
	epP	16 36
Apr. 22		
HH	iP	11 25 54
Apr. 22		
HH	eP	11 44 00
Apr. 22		
COL	iP	13 30 21
	i	30 29
	iS	31 04
	iL	31 11
Apr. 22		
RC	eP	15 47 55
Apr. 22		
HH	iP	17 15 37
Apr. 22		
HH	eP	18 15 51

Date and Station		Phase (GCT)
		h m s
Apr. 22		
BH	i(P)	21 13 43
	i	13 57
EUR	eP	21 18 29
HH	iP	21 19 15
Apr. 22		
COL	eP	21 25 04
EUR	eP	21 26 11
Apr. 22		
COL	eP	21 36 00
Apr. 22		
EUR	eP	22 22 42
RC	eP	22 22 52
Apr. 22		
COL	iP	23 23 34
	i	23 45
	iS	24 12
	iL	24 23
Apr. 23		
COL	eP	01 36 15
EUR	eP	01 38 44
Apr. 23		
HH	eP	01 48 21
Apr. 23		
EUR	eP	02 35 30
TUC	eP	02 35 51
	e	36 48
Apr. 23		
BC	eP	03 08 43
BOZ	eP	03 08 19
	e	08 31
BUT	eP	03 08 11
	e(PcP)	08 48
COL	iP	03 05 02
	i	05 05
	iS	10 52
	iL	13 44
EUR	iP	03 08 24
	i	08 38
HH	eP	03 07 55
	iP	07 56
RC	iP	03 08 52
SIT	e(P)	03 06 02
TUC	iP	03 09 14
	eL	34 23
TUC-T	iP	03 09 14

Date and Station		Phase	(GCT) h m s
Apr. 23			
COL		eP	03 33 30
EUR		eP	03 36 52
Apr. 23			
COL		iP	04 59 54
EUR		iP	05 03 16
HH		iP	05 02 47
		i	04 26
RC		eP	05 03 46
TUC		e(P)	05 04 21
Apr. 23			
BUT		eP	06 05 46
COL		eP	06 03 11
		i	03 20
EUR		iP	06 05 56
HH		iP	06 05 34
Apr. 23			
EUR		eP	10 37 24
Apr. 23			
COL		eP	10 48 39
Apr. 23			
COL		eP	11 10 59
Apr. 23			
COL		eP	13 53 02
HH		e(P)	13 55 45
Apr. 23			
EUR		eP	15 10 57
Apr. 23			
BOZ		eP	15 24 16
BUT		eP	15 24 13
COL		iP	15 24 05
EUR		iP	15 23 43
HH		iP	15 24 14
TUC		eP	15 23 46
TUC-T		iP	15 23 46
Apr. 23			
EUR		eP	17 24 22
		epP	24 45
Apr. 23			
COL		iP	17 47 32
Apr. 23			
SJ		i(P)	18 02 43

Date and Station		Phase	(GCT) h m s
Apr. 23			
COL		iP	19 24 47
		ipP	25 10
		isP	25 32
		i	26 35
EUR		iP	19 25 47
Apr. 23			
BOZ		iP	19 36 45
		iS	37 00
		iL	37 02
HH		iP	19 37 08
		iS	37 48
Apr. 23			
EUR		iP	20 25 48
HH		iP	20 29 59
Apr. 23			
HH		eP	21 25 39
Apr. 23			
COL		eP	21 37 38
EUR		eP	21 37 17
Apr. 24			
COL		eP	02 57 47
EUR		iP	02 58 22
		ipP	58 45
Apr. 24			
TUC		e(P)	03 44 57
		eL	48 04
Apr. 24			
COL		eP	05 45 48
		iP	46 01
		iS	46 37
		iL	46 43
Apr. 24			
COL		eP	06 41 35
EUR		eP	06 44 57
Apr. 24			
COL		iP	06 53 21
		i	53 30
		iS	54 02
		iL	54 13
Apr. 24			
EUR		eP	07 26 29
Apr. 24			
COL		eP	13 03 17
EUR		eP	13 06 02
HH		eP	13 05 51
Apr. 24			
COL		eP	13 22 54

Date and Station		Phase	(GCT) h m s
EUR		eP	13 22 55
TUC		e(P)	13 23 24
		eL	54 11
Apr. 24			
EUR		eP	15 42 30
Apr. 24			
COL		eP	17 34 23
EUR		eP	17 34 24
Apr. 24			
COL		eP	17 51 29
		ipP	53 45
EUR		iP	17 51 36
		epP	53 45
TUC-T		eP	17 51 43
Apr. 24			
COL		iP	17 53 45
Apr. 24			
EUR		eP	17 53 45
Apr. 24			
BH		iP	18 10 35
		iS	11 36
BC		eP	18 17 18
		e	17 39
BOZ		eP	18 17 55
		e	18 44
BUT		eP	18 18 03
		e	18 21
COL		iP	18 21 01
		e	22 55
COLU		iP	18 15 18
EUR		iP	18 17 41
		i	18 14
HH		iP	18 18 21
		i	18 38
RC		iP	18 17 19
SLC		eP	18 17 28
		e	18 01
SJ		iP	18 14 03
		eL	18 09
Apr. 24			
RC		eP	20 16 18
Apr. 24			
COL		iP	21 13 25
EUR		eP	21 16 46

Date and Station		Phase	(GCT) h m s
Apr. 25			
EUR		eP	00 12 02
Apr. 25			
COL		iP	00 42 32
		i	42 43
		iS	43 10
		iL	43 21
Apr. 25			
COL		iP	04 14 [illegible]
		i	14 5[illegible]
		iS	15 21
		iL	15 30
Apr. 25			
EUR		iP	04 28 44
RC		e(P)	04 29 17
TUC-T		eP	04 27 53
Apr. 25			
COL		iP	05 29 31
		i	29 42
		iS	30 10
		iL	30 25
Apr. 25			
COL		eP	06 09 16
Apr. 25			
COL		iP	06 24 41
EUR		eP	06 28 26
TUC		e(P)	06 29 44
TUC-T		e(P)	06 29 44
Apr. 25			
BC		eP	08 43 08
		e	43 27
COL		eP	08 39 22
		i	40 01
EUR		iP	08 42 45
HH		iP	08 42 16
		i	42 29
		i	42 37
RC		eP	08 43 22
SLC		eP	08 43 00
TUC		eP	08 43 47
		e	44 00
TUC-T		iP	08 43 47
Apr. 25			
COL		iP	09 28 22
Apr. 25			
TUC		eP	14 10 53
TUC-T		eP	14 10 53

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

Date and Station		Phase	(GCT) h m s
Apr. 27			
BC		eP	19 11 38
		e	11 51
		e	12 19
BOZ		eP	19 11 11
		e	11 29
		e	11 55
BUT		eP	19 11 01
		e	11 26
COL		iP	19 07 44
		i	08 01
		i	08 11
		i	08 18
		iS	10 56
		iL	11 51
COLU		e(P)	19 14 17
		i	14 30
EUR		iP	19 11 13
		i	11 34
		eS	17 13
HONO		eP	19 10 26
		e	12 04
		eS	15 34
		eL	17 44
KIP		eP	19 10 25
		e	10 32
		ePP	11 23
HH		eP	19 10 41
		i	10 59
RC		eP	19 11 54
		i	12 14
SLC		eP	19 11 28
		e	12 34
		ePcP	13 19
SIT		eP	19 08 26
		i	09 08
		eS	12 10
		eL	13 12
TUC		eP	19 12 17
		i	12 32
TUC-T		eP	19 12 17
		i	12 32
WASH		eP	19 14 17
		eL	39 03
Apr. 27			
SJ		eP	19 21 18
		i	21 32
Apr. 27			
COL		iP	19 32 51
		i	33 04
		iS	33 41
		i	33 58

Date and Station		Phase	(GCT) h m s
Apr. 27			
EUR		eP	23 30 22
Apr. 28			
EUR		eP	00 53 46
Apr. 28			
COLU		eP	02 20 47
EUR		eP	02 20 31
HH		eP	02 20 52
Apr. 28			
COL		iP	06 07 29
Apr. 28			
EUR		eP	06 29 33
Apr. 28			
EUR		eP	08 00 59
Apr. 28			
BC		eP	08 01 45
		e	02 48
		eL	03 24
BOZ		eP	08 04 08
		e	04 39
BUT		eP	08 04 06
		i	04 11
EUR		iP	08 02 33
		eS	04 36
		eL	04 52
HH		eP	08 03 38
		e	04 23
RC		eP	08 04 12
SLC		eP	08 03 00
TUC		eP	08 01 09
TUC-T		eP	08 01 10
Apr. 28			
EUR		eP	11 41 38
Apr. 28			
BH		iP	11 52 30
		iPcP	56 20
BC		eP	11 57 53
		e	58 00
		e	58 29
BOZ		eP	11 58 27
		ePcP	58 52
		ePP	12 00 39
BUT		iP	11 58 32
		e	59 14
COL		iP	12 00 55
		i	01 19
		ePP	04 43

Date and Station		Phase	(GCT) h m s
COL		eS	12 11 47
		ePKKP	18 27
		e	21 07
		eSSS	22 12
		eL	26 18
COLU		eP	11 56 02
		iP	56 06
EUR		iP	11 58 14
		i	58 42
		eP'P'	12 27 12
HONO		eP	12 00 37
		eS	11 28
		i	13 00
		eL	28 36
HH		iP	11 58 46
		eP'P'	12 27 04
		iP'P'	27 14
RC		iP	11 57 56
SLC		iP	11 58 05
		e	59 12
SJ		eP	11 53 55
		eL	12 06 18
SIT		eP	12 00 14
		iS	10 44
		e(SS)	16 45
		eL	23 32
TUC		iP	11 57 18
		eS	12 05 06
		eScS	07 10
		eL	10 08
		eP'P'	28 40
TUC-T		iP	11 57 18
		eSS	12 08 54
		eP'P'	28 08
		iP'P'	28 38
UK		iP	11 58 44
		eP'P'	12 27 04
WASH		eP	11 56 38
		eS	12 03 47
		eL	07 46
Apr. 28			
COL		eP	12 07 17
		e(S)	08 36
		eL	08 48
Apr. 28			
EUR		eP	12 40 39
HH		iP	12 39 43
Apr. 28			
EUR		eP	13 35 33
Apr. 28			
COL		iP	16 12 05

Date and Station		Phase	(GCT) h m s
Apr. 28			
COL		iP	19 15 41
EUR		eP	19 14 31
HH		eP	19 15 15
Apr. 28			
BOZ		eP	21 20 09
		e	20 26
EUR		eP	21 21 39
HH		eP	21 20 21
Apr. 28			
EUR		eP	21 32 34
Apr. 28			
BOZ		eP	21 56 50
EUR		eP	21 58 06
HH		eP	21 57 29
		iS	57 45
Apr. 28			
COL		iP	22 25 49
Apr. 29			
COL		eP	05 04 33
Apr. 29			
COL		iP	05 08 07
EUR		eP	05 11 21
HH		iP	05 10 53
Apr. 29			
COL		iP	05 17 33
EUR		eP	05 20 37
HH		iP	05 19 59
Apr. 29			
COL		iP	08 28 07
		ipP	28 51
Apr. 29			
COL		eP	13 30 07
Apr. 29			
COL		iP	13 36 26
		i	36 31
		i	36 47
		iS	37 46
		iL	37 56
EUR		iP	13 40 36
HH		eP	13 39 32
SIT		eP	13 36 06
		i	36 20
		eS	36 59
		eL	37 36

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Date and Station		Phase (GCT)
		h m s
TUC	eP	13 41 55
Apr. 29 COL	iP	14 25 34
	i	25 40
	iS	26 10
	i	26 15
Apr. 29 COL	iP	13 53 55
Apr. 29 EUR	eP	21 20 19
Apr. 29 EUR	eP	22 03 51
TUC-T	eP	22 03 40
Apr. 29 COL	iP	22 25 44
	ipP	26 47
EUR	eP	22 25 18
Apr. 30 COL	iP	00 44 07
	i	44 27
Apr. 30 BC	eP	02 37 23
	e(S)	38 14
	eL	38 30
EUR	eP	02 38 02
TUC	e(P)	02 38 15
	e	38 22
	e	39 36
TUC-T	e(P)	02 38 15
	e	39 30
Apr. 30 EUR	eP	06 37 52
Apr. 30 COL	eP	06 48 55
	iP	49 05
	i	49 19
	iS	50 13
	iL	50 28
Apr. 30 COL	eP	08 37 06
Apr. 30 COL	iP	09 45 27
Apr. 30 COL	eP	10 02 10
Apr. 30 EUR	eP	11 13 54
Apr. 30 COL	iP	14 05 15
EUR	iP	14 08 09

Date and Station		Phase (GCT)
		h m s
HH	iP	14 07 34
RC	eP	14 08 08
Apr. 30 BC	eP	14 19 52
	e	20 03
BUT	eP	14 19 11
COL	iP	14 19 26
EUR	iP	14 19 45
HH	iP	14 19 06
RC	eP	14 18 39
	e	18 51
	e	19 31
SLC	eP	14 19 24
	e	19 47
SJ	iP	14 16 48
TUC	iP	14 19 50
TUC-T	iP	14 19 49
	e	20 00
	e	20 31
Apr. 30 EUR	iP	15 34 12
RC	eP	15 34 33
TUC-T	eP	15 32 56
	e	33 34
Apr. 30 HH	eP	15 40 14
Apr. 30 TUC	eP	16 39 51
Apr. 30 EUR	eP	18 17 44
Apr. 30 COL	eP	19 02 30
	epP	03 17
Apr. 30 BC	iP	19 38 46
	epP	39 15
BUT	eP	19 39 21
	epP	39 50
COL	iP	19 41 26
EUR	iP	19 39 04
	ipP	39 34
	isP	39 49
HH	iP	19 39 40
	ipP	40 03

Date and Station		Phase (GCT)
		h m s
RC	iP	19 38 48
	ipP	39 18
	esP	39 32
SLC	eP	19 38 56
	e	39 10
	epP	39 26
SJ	eP	19 34 49
	epP	35 15
TUC	iP	19 38 15
	ipP	38 42
TUC-T	iP	19 38 15
	ipP	38 44
	isP	38 57
	e	39 25
UK	eP	19 39 25
	e	39 55
Apr. 30 COL	iP	19 43 08
	i	43 17
	iS	43 57
	iL	44 03
Apr. 30 COL	iP	20 12 36
EUR	iP	20 16 02
Apr. 30 COL	iP	20 54 56

Date and Station	Phase (GCT)
	h m s

LOCAL AND MINOR EARTHQUAKES

Date and Station	Hour (G.C.T.)
BOZ	
Apr.	
23	19.6
BUT	
Apr.	
23	19.6
28	21.0
	21.3
	21.4
	21.9
COL	
Apr.	
11	12.0
12	23.3
14	12.1
18	23.7
20	09.4
21	06.7
22	08.9
23	17.6
26	04.8
	17.0
27	14.6
28	20.6
EUR	
Apr.	
2	19.0
	22.5
8	00.5
	22.0
10	18.3
17	21.3
21	06.7
27	07.0
28	19.4
HONO	
Apr.	
5	01.3
8	21.6
	23.7
	23.8
9	00.5
10	00.4
11	02.2
	02.2
	02.3
17	03.0
	23.8
21	21.1
23	01.1
	01.1
24	22.5
25	22.7
KIP	
Apr.	
9	00.5
21	21.1
23	01.1
	01.1
24	22.5
25	22.7

Date and Station	Hour (G.C.T.)
SJ	
Apr.	
1	17.6
2	02.4
3	22.0
13	20.3
16	06.7
	14.9
	15.0
	15.1
	15.4
18	04.3
	04.5
	09.6
	19.7
24	00.6
25	01.2
	09.5
	13.6
29	11.8
	18.0
SIT	
Apr.	
30	11.3
TUC	
Apr.	
2	08.0
3	11.6
	11.8
6	10.4
8	07.4
	09.0
11	11.5
12	09.2
	13.3
	13.9
	14.1
13	07.6
	19.5
14	13.2
15	07.4
16	05.9
18	02.0
	05.5
19	03.9
	05.1
	05.4
	06.3
	07.5
	11.8
20	07.2
	08.9
	23.6
23	00.3
24	03.8
25	15.1
26	10.9
27	22.3
28	02.5
	08.3
	08.4
	09.2
	09.3
	09.4
	10.5
	11.2

Date and Station	Hour (G.C.T.)
TUC	
Apr.	
28	13.2
29	03.4
UK	
Apr.	
8	10.4
9	00.8
12	12.8
24	02.2
	07.4

Date and Station	Hour (G.C.T.)