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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
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the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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
July	h m s	°	°	
1	05 53 07*	51½ N.	176½ W.	Andreanof Islands, Aleutian Islands. Mag. 6.
2	00 44 38*	52½ N.	158 E.	Near east coast of Kamchatka. h about 60 km.
2	04 48 03*	18 S.	177 W.	Fiji Islands. h about 350 km.
2	16 41 07*	15 S.	174 W.	Samoa Islands region.
3	05 45 07*	18 S.	66 E.	Mascarene Islands region.
3	06 27 44*	29 S.	179 W.	Kermadec Islands region. h about 400 km. Mag. 6.
3	10 23 02*	55 S.	126 W.	Pacific Ocean.
3	12 48 00*	48 N.	147 E.	Sea of Okhotsk. h about 400 km.
3	19 00 36*	12 N.	89½ W.	Off coast of El Salvador. Felt in western El Salvador. h about 100 km.
4	00 19 28*	19 S.	173½ W.	Tonga Islands.
4	00 53 10*	9 N.	40 W.	Atlantic Ocean.
4	13 05 37**			About 250 miles north of Balleny Islands.
4	18 34 03*	6 N.	125 E.	Near south coast of Mindanao, Philippine Islands. Felt at Cotabato, Davao, and Zamboanga.
5	23 21 50**			About 150 miles off coast of Honshu, Japan.
6	04 40 59*	55 N.	160½ W.	Alaska Peninsula.
6	16 03 14*	66 N.	155 W.	Central Alaska.
6	18 31 00**			Gulf of California. Mag. 4¾.
6	23 34 11*	31 N.	142 E.	South of Honshu, Japan.
7	05 16 04*	50½ N.	180	Andreanof Islands, Aleutian Islands.
7	13 38 00*	50½ N.	179½ E.	do.
8	05 02 14**			Near Czechoslovakia-Germany border.
8	06 06 28*	21½ S.	174 W.	Tonga Islands.
8	22 48 36*	43 S.	41½ E.	Indian Ocean, northeast of Prince Edward Islands. Mag. 6.
9	13 54 27*	20½ S.	178½ W.	Fiji Islands. h about 600 km.
9	14 16 59*	5½ S.	151½ E.	New Britain.
9	15 18 20*	14½ N.	91½ W.	Guatemala. h about 100 km.
10	06 15 51	58.6 N.	137.1 W.	Southeastern Alaska. Six killed and moderate property damage. Extensive fissuring and avalanche activity. Portions of Khantaak Island submerged in Yakutat Bay. Waves estimated as more than 100 feet in Lituya Bay. Mag. 8.
10	08 56 06**			Alaska aftershock.
10	15 02 02*	60 N.	141 W.	Southeastern Alaska.
11	07 43 05*	51 N.	175 W.	Andreanof Islands, Aleutian Islands.
11	19 10 20*	21 S.	69 W.	Northern Chile. Mag. 6½.
11	19 50 08*	57½ N.	137½ W.	Alaska aftershock.
12	00 48 30*	5 S.	106½ W.	Pacific Ocean. Mag. 6.
12	02 31 55*	4½ S.	105½ W.	Pacific Ocean.
12	03 29 58*	12 N.	165 E.	Marshall Islands.
13	08 10 02	58.3 N.	136.9 W.	Alaska aftershock. Felt at Sitka. Mag. 5½-5¾ (Berk).

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
July	h m s	°	°	
13	12 03 50*	10 S.	161½ E.	Solomon Islands. h about 100 km.
13	15 28 00*	24½ N.	94 E.	India-Burma border.
13	23 04 28*	55 N.	168 E.	Komandorskie Islands.
14	02 54 18*	61 N.	143 W.	Southeastern Alaska.
14	05 25 51*	34 N.	120 W.	Near coast of California. Slight damage at Carpenteria. Mag. 4¾-5.
15	05 59 34*	60 N.	140½ W.	Southeastern Alaska.
15	07 59 18*	35½ N.	23½ E.	Near west coast of Crete.
16	01 47 20*	51½ N.	176½ W.	Andreanof Islands, Aleutian Islands.
16	03 52 39*	51½ N.	176½ W.	do.
16	12 54 18*	29½ S.	113 W.	South Pacific Ocean. Mag. 6 (Berk).
16	16 54 17*	12 S.	166½ E.	Santa Cruz Islands.
16	18 40 21*	12 S.	166½ E.	do.
16	21 58 20**			Belgian Congo-Northern Rhodesia border.
17	05 37 06*	40½ N.	23 E.	Northern Greece. Minor damage at Salonika.
17	13 48 45*	57½ N.	137 W.	Southeastern Alaska. Felt at Sitka.
17	19 02 10*	51 N.	176 W.	Andreanof Islands, Aleutian Islands. Mag. 5¾ (Berk).
17	19 29 36*	51 N.	177 W.	Andreanof Islands, Aleutian Islands.
17	20 59 17*	51 N.	177½ W.	Andreanof Islands, Aleutian Islands. Mag. 6 (Berk).
18	00 39 18*	51 N.	176½ W.	Andreanof Islands, Aleutian Islands. Mag. 5¾ (Berk).
18	01 47 21*	4 S.	78 W.	Ecuador-Peru border. h about 100 km.
18	17 03 58*	58½ N.	138½ W.	Southeastern Alaska. Felt at Juneau.
18	21 38 05*	25½ N.	124 E.	Ryukyu Islands region.
19	06 30 19*	4 S.	138½ E.	New Guinea. h about 150 km.
19	14 57 24*	41 N.	143½ E.	Near south coast of Hokkaido, Japan.
19	17 23 20*	51½ N.	176 W.	Andreanof Islands, Aleutian Islands.
19	18 16 52*	0	129½ E.	Spice Islands.
19	22 14 01*	½ S.	129 E.	Spice Islands aftershock.
20	11 43 47*	31½ S.	71 W.	Central Chile. Felt at Santiago, Valparaiso, San Antonio, and LaSerena.
21	07 24 58*	44½ N.	147½ E.	Kurile Islands. Mag. 6-6¼ (Berk).
21	09 39 06*	12 N.	89 W.	Near coast of El Salvador.
21	14 37 18*	51½ N.	178 W.	Andreanof Islands, Aleutian Islands, Mag. 6¼ (Berk).
21	18 32 58*	14 S.	167½ E.	New Hebrides Islands.
22	03 55 35*	58½ N.	138 W.	Southeastern Alaska.
22	05 08 40*	51 N.	176 W.	Andreanof Islands, Aleutian Islands.
22	14 54 00*	22 S.	180	Fiji Islands region. h about 600 km.
22	20 30 00**			Marshall Islands region.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
July	h m s	°	°	
22	22 45 51*	53 N.	160 W.	Gulf of Alaska. h about 100 km.
23	10 27 19*	31 N.	142 E.	South of Honshu, Japan.
23	11 44 00**			Solomon Islands region.
23	14 15 34*	26½ S.	73½ W.	Off coast of Chile.
23	18 03 56*	10 N.	89½ W.	Off coast of Nicaragua.
24	13 08 05*	52½ N.	170 W.	Fox Islands, Aleutian Islands.
25	17 50 15*	3½ N.	128½ E.	Molucca Passage.
26	06 13 50*	40 S.	45½ E.	South Indian Ocean.
26	08 35 10*	60½ S.	168½ W.	South Pacific Ocean.
26	17 37 09*	13½ S.	69 W.	Peru-Bolivia border. h about 650 km. Mag. 7-7¼.
26	20 29 59*	12 N.	161½ E.	Marshall Islands.
27	00 22 32*	20½ S.	178½ W.	Fiji Islands region. h about 600 km.
27	00 56 00*	58½ N.	137 W.	Southeastern Alaska.
27	02 14 22	51 N.	179 W.	Andreanof Islands, Aleutian Islands.
27	03 21 56*	45½ N.	148 E.	Kurile Islands.
27	17 01 29*	15½ S.	169 E.	New Hebrides Islands.
27	17 19 03*	28½ S.	62 E.	South Indian Ocean.
27	18 30 33*	55 N.	34½ W.	North Atlantic Ocean.
28	01 23 05*	5 S.	151½ E.	New Britain. h about 200 km.
28	17 24 40*	20 S.	177½ W.	Fiji Islands region. h about 500 km.
28	18 33 45*	26½ S.	115½ W.	South Pacific Ocean, west of Easter Island.
28	21 23 25*	20 S.	178½ W.	Fiji Islands. h about 650 km.
29	10 49 27*	20½ S.	175½ W.	Tonga Islands.
29	21 37 25*	4 N.	26½ W.	Atlantic Ocean.
30	02 47 17*	44½ N.	148½ E.	Kurile Islands.
30	04 44 53*	2½ S.	140 E.	New Guinea.
30	07 32 28*	30 N.	141 E.	South of Honshu, Japan.
30	15 10 18**			South Pacific Ocean, about 1800 miles southwest of Easter Island.
31	02 03 45*	51½ N.	174½ W.	Andreanof Islands, Aleutian Islands.
31	02 26 23*	51½ N.	174½ W.	do.
31	12 00 57**			San Juan Province, Argentina. h about 150 km.
31	15 48 32*	61½ N.	151 W.	Southern Alaska. Felt at Anchorage.

Date and Station		Phase	(GCT) h m s
July 1			
EUR		eP	01 01 42
July 1			
EUR		eP	02 58 05
TUC-T		iP	03 02 11
July 1			
COL		iP	04 45 14
July 1			
COL		eP	04 56 14
EUR		eP	04 59 34
July 1			
EUR		eP	05 47 53
July 1			
BC		iP	06 01 33
		e	01 47
BUT		e(P)	06 00 57
COL		iP	05 57 43
		i	57 46
		e	58 54
		eS	06 01 22
		eL	03 20
COLU		iP	06 04 06
		i	04 18
		iS	13 01
EUR		iP	06 01 11
		i	01 37
		i	02 08
HONO		eP	05 59 51
		ePP	06 01 09
		e	01 15
		e(S)	06 58
		i	07 02
		iL	08 52
		eT	35 04
HH		iP	06 00 41
		i	01 01
		iPcP	02 48
		iS	06 46
KIP		eP	05 59 49
		iP	59 51
		eT	06 34 54
		iT	35 00
RC		iP	06 01 49
		eS	08 45
SLC		iP	06 01 25
		e	02 13
		e	02 30
SJ		iP	06 06 00
SIT		iP	05 58 31
TUC		iP	06 02 11
TUC		e	06 03 28
TUC-T		iP	06 02 11
UK		iP	06 00 36
		i	00 51
WASH		iP	06 03 56
		eL	29 24
July 1			
COL		iP	06 50 29
EUR		eP	06 54 01
July 1			
EUR		eP	07 39 36
July 1			
EUR		eP	11 30 43
HH		eP	11 30 13
		e	30 39
July 1			
EUR		eP	14 53 12
July 1			
COL		iP	15 46 30
EUR		eP	15 43 38
July 1			
EUR		eP	23 49 18
July 2			
BC		eP	00 54 45
COL		iP	00 50 39
EUR		iP	00 54 24
HH		iP	00 53 48
		iPcP	54 59
RC		iP	00 54 47
SLC		eP	00 54 34
TUC		eP	00 55 18
TUC-T		iP	00 55 18
July 2			
EUR		eP	01 23 42
HH		e(P)	01 23 11
July 2			
COL		eP	02 36 11
EUR		eP	02 39 36
HH		eP	02 39 07
		i	41 38
July 2			
COL		iP	04 30 51
EUR		iP	04 34 18
		ipP	34 52
		isP	35 02
HH		iP	04 33 48
TUC		eP	04 35 09
TUC-T		eP	04 35 08
July 2			
BC		eP	04 59 41
		epP	05 01 02
BUT		eP	05 00 15
		epP	01 38
COL		iP	05 00 09
		ipP	01 33
EUR		iP	04 59 47
		ipP	05 01 08
HONO		eP	04 55 42
HH		eP	05 00 16
		ipP	01 38
		iPKKP	18 04
KIP		iP	04 55 42
SLC		eP	05 00 06
		epP	01 27
TUC		eP	04 59 47
		iP	59 49
		e	05 00 16
		ipP	01 09
TUC-T		iP	04 59 48
		e	05 00 16
		ipP	01 09
UK		eP	05 00 42
TUC-T		eP	06 31 09
July 2			
SLC		eP	08 26 25
		e	26 39
July 2			
COL		iP	11 28 25
		i	29 14
EUR		iP	11 28 44
		ipP	29 36
July 2			
EUR		iP	13 16 18
HH		eP	13 15 48
TUC		eP	13 17 20
July 2			
COL		iP	16 53 29
EUR		eP	16 52 57
HH		eP	16 53 29
TUC-T		eP	16 52 58
July 2			
EUR		iP	17 41 38
HH		iP	17 41 45
July 2			
EUR		eP	17 56 07
		eL	57 02
July 2			
EUR		iP	22 55 49
HH		e(P)	22 56 14
TUC-T		i(P)	22 55 53
July 2			
EUR		eP	23 27 20
July 3			
HH		e(P)	01 41 00
July 3			
HH		e(P)	01 44 17
July 3			
BH		iP'	06 04 54
BC		eP'	06 05 26
BOZ		eP'	06 05 15
		e	05 35
BUT		eP'	06 05 14
		iP	05 19
		ePKS	09 01
COL		eP'	06 04 19
		ePP	06 20
		iPP	06 32
		ePKS	08 04
		e	15 10
		e(PS)	17 13
		e(PPPS)	19 02
		e(SKPP')	28 19
COLU		eP'	06 04 52
EUR		eP'	06 05 10
HH		eP'	06 05 02
		ePKS	08 51
RC		eP'	06 05 11
SLC		eP'	06 05 54
		e	06 19
TUC		eP'	06 05 29
TUC-T		eP'	06 05 27
		e	06 29

Date and Station		Phase (GCT) h m s
July 3		
BC	eP	06 40 00
	epP	41 35
BUT	ePP	06 44 34
	epPP	46 00
COL	iP	06 40 34
	i	40 38
	ipP	42 12
	eSKS	50 36
	eS	51 24
	ePS	53 24
	e(sS)	54 15
	esPS	55 20
	eSS	58 06
EUR	iP	06 40 04
	ipP	41 40
	ePKKP	57 01
HONO	iP	06 36 39
	epP	38 01
	isP	38 45
	i	43 00
	iS	43 50
	isS	46 24
	iSS	47 40
	eL	50 42
HH	eP	06 40 38
	e	41 49
	epP	42 17
	epPP	45 58
KIP	iP	06 36 39
	ipP	38 02
RC	eP	06 40 56
	epP	42 29
	ePP	45 09
	ePKKP	57 06
SLC	eP	06 40 21
	epP	41 57
TUC	iP	06 40 03
	i	40 06
	epP	41 39
	esP	42 21
	iS	50 30
	eSP	51 34
	e(PS)	53 17
	ePKKP	57 39
	eL	07 05 28
TUC-T	iP	06 40 03
	i	40 06
	epP	41 38
	ePKKP	57 38
UK	iP	06 39 46
	e	40 12
	ipP	41 24
July 3		
TUC-T	eP	07 57 43

Date and Station		Phase (GCT) h m s
July 3		
BOZ	eP	09 19 19
COL	eP	09 11 58
	iP	12 05
	iS	12 48
	iL	12 59
EUR	iP	09 18 34
HH	eP	09 16 02
TUC	eP	09 17 22
TUC-T	eP	09 17 22
July 3		
HH	eP	10 28 13
TUC-T	iP	10 27 47
July 3		
BC	e(P)	10 36 16
COL	iP'	10 42 03
EUR	iP	10 36 33
TUC	eP	10 36 03
TUC-T	eP	10 35 57
	e	36 16
July 3		
BC	eP	12 58 27
	e	58 43
BOZ	eP	12 57 58
COL	iP	12 54 43
	ipP	56 25
EUR	iP	12 58 08
	iPcP	58 35
	ipP	59 43
HH	iP	12 57 37
	iPcP	58 16
RC	iP	12 58 30
SLC	eP	12 58 18
SIT	eP	12 55 46
TUC	iP	12 58 57
TUC-T	iP	12 58 57
July 3		
EUR	eP	13 27 49
July 3		
EUR	eP	15 12 00
	epP	12 49
HH	eP	15 12 31
	e	13 06

Date and Station		Phase (GCT) h m s
TUC-T	eP	15 11 10
July 3		
COL	eP	16 46 18
July 3		
EUR	eP	17 29 20
July 3		
EUR	eP	18 20 20
July 3		
HH	eP	18 59 31
July 3		
EUR	iP	19 05 07
TUC-T	e(P)	19 03 02
July 3		
BC	eP	19 07 07
BOZ	eP	19 07 50
BUT	eP	19 07 59
COL	iP	19 11 16
COLU	iP	19 05 40
EUR	iP	19 07 33
	ipP	08 03
HH	eP	19 08 18
	iPcP	10 21
RC	e(P)	19 07 15
SLC	eP	19 07 21
TUC	e(P)	19 06 24
	eL	17 18
TUC-T	iP	19 06 24
July 3		
EUR	eP	20 04 37
July 3		
EUR	iP	22 54 28
July 4		
BC	eP	00 31 28
BOZ	e(P)	00 32 10
BUT	eP	00 32 06
	e	32 27
COL	iP	00 32 10
EUR	iP	00 31 35
HH	e(P)	00 32 08
SLC	eP	00 31 54
TUC	eP	00 31 34

Date and Station		Phase (GCT) h m s
TUC-T	eP	00 31 35
July 4		
BC	eP	01 04 39
BOZ	eP	01 04 25
BUT	eP	01 04 32
COL	iP	01 06 08
EUR	iP	01 04 45
HH	iP	01 04 39
RC	iP	01 03 48
SLC	eP	01 04 26
SJ	eP	00 59 25
TUC	eP	01 04 17
TUC-T	eP	01 04 17
July 4		
EUR	iP	01 16 45
July 4		
BOZ	eP	02 42 52
COLU	eP	02 42 35
EUR	eP	02 42 51
HH	iP	02 42 43
RC	eP	02 43 01
SLC	e(P)	02 41 38
	e	43 27
TUC-T	eP	02 43 02
July 4		
EUR	eP	02 47 01
July 4		
HH	e(P)	03 17 47
July 4		
COL	iP	04 48 32
July 4		
EUR	eP	05 23 38
July 4		
BC	eP	08 02 47
	e	03 21
EUR	iP	08 04 47
TUC-T	eP	08 04 59
July 4		
BH	iP	08 02 47
	iS	03 54

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Date and Station		Phase	(GCT) h m s
EUR		eP	08 10 05
July 4			
COL		eP	11 30 34
EUR		eP	11 29 13
HH		eP	11 29 05
RC		eP	11 28 16
TUC-T		e(P)	11 28 44
July 4			
COL		eP	12 03 42
July 4			
BC		eP	12 16 22
July 4			
HH		eP	13 24 43
July 4			
COL		e(P)	13 46 29
July 4			
COL		iP	14 53 31
		iS	53 56
		iL	54 00
July 4			
EUR		eP	14 59 27
HH		eP	15 00 26
RC		eP	14 59 40
TUC		eP	14 58 06
		e	58 25
		eL	15 03 37
TUC-T		eP	14 58 07
		eL	15 03 46
July 4			
BH		iP'	18 53 55
BOZ		epP	18 52 40
BUT		eP'	18 51 59
COL		iP	18 46 34
		iS	56 48
		iScS	57 11
		e	19 01 28
		eL	08 46
COLU		eP'	18 53 24
EUR		eP	18 48 30
		e	51 56
		iPKKP	19 04 01
HONO		iP	18 46 55
		eS	55 42
		eL	19 05 20
HH		eP	18 48 17
		e	51 33
KIP		eP	18 46 55
RC		eP'	18 53 11
SJ		eP'	18 54 09
		e	54 35
TUC-T		eP'	18 53 54
July 4			
EUR		eP	22 14 49
July 5			
COL		iP	00 59 14
		iS	59 29
		iL	59 37
July 5			
COL		iP	01 38 49
EUR		iP	01 36 41
		ipP	37 16
HH		eP	01 37 04
RC		eP	01 39 54
July 5			
COL		eP	02 17 25
EUR		iP	02 19 12
HH		eP	02 18 44
July 5			
EUR		eP	10 13 53
July 5			
COL		e(P)	11 33 53
		i	34 13
HH		e(P)	11 36 49
July 5			
COL		eP	11 57 18
TUC		eP	11 51 49
TUC-T		eP	11 51 47
		e	52 21
July 5			
COL		eP	12 10 09
July 5			
EUR		iP	14 04 40
HH		e(P)	14 04 43
SLC		e(P)	14 04 56
TUC		iP	14 04 40
TUC-T		iP	14 04 40
July 5			
COL		eP	18 40 29
EUR		iP	18 41 53
HH		iP	18 41 57
July 5			
EUR		e(P)	21 07 45
July 5			
BC		eP	23 34 00
BUT		eP	23 33 39
COL		iP	23 30 56
EUR		iP	23 33 46
HH		eP	23 33 28
RC		eP	23 34 14
SLC		eP	23 33 56
July 6			
BC		eP	04 48 08
COL		eP	04 43 48
		iP	43 50
		i	43 58
		eS	45 54
		eL	47 08
EUR		iP	04 47 40
HH		eP	04 47 00
RC		eP	04 48 18
		e	48 31
SIT		eP	04 44 30
TUC		eP	04 48 49
July 6			
COL		iP	06 31 09
		i	31 11
EUR		iP	06 34 38
		i	34 51
		ePKKP	52 44
RC		iP	06 35 17
TUC		eP	06 35 40
TUC-T		eP	06 35 40
July 6			
BC		eP	07 02 40
BUT		eP	07 03 37
EUR		iP	07 03 02
HH		eP	07 [illegible] 49
RC		eP	07 03 29
		e	13 55
SLC		eP	07 03 08
TUC		eP	07 02 17
TUC-T		iP	07 02 17
July 6			
EUR		iP	07 10 21
July 6			
EUR		iP	07 13 27
July 6			
COL		e(P)	09 01 53
HH		i(P)	09 04 52
July 6			
BOZ		eP	13 46 17
July 6			
BC		eP	16 10 37
BOZ		e(P)	16 09 29
BUT		eP	16 09 26
		eL	19 14
COL		iP	16 04 03
		iS	04 41
		iL	04 48
EUR		iP	16 10 06
		ePKKP	34 38
HH		iP	16 09 04
		iPKKP	33 36
		i	33 40
RC		eP	16 10 12
		ePP	11 29
		eL	22 01
SLC		eP	16 10 08
SIT		e(P)	16 06 19
		eL	10 15
TUC		eP	16 11 16
TUC-T		eP	16 11 15
July 6			
COL		eP	17 31 50
EUR		eP	17 30 28
HH		i(P)	17 24 34
RC		eP	17 29 30
July 6			
BC		e(P)	18 32 37
BOZ		eP	18 34 41
BUT		eP	18 34 43
EUR		eP	18 33 13
		iS	34 07
		eL	34 42

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Date and Station		Phase (GCT) h m s
HH	eP	18 35 10
RC	eP	18 34 50
	eL	39 55
SLC	eL	18 36 11
TUC	e(P)	18 32 00
	eS	32 43
	eL	32 48
TUC-T	e(P)	18 32 00
July 6		
BOZ	eP	19 01 48
BUT	eP	19 01 45
EUR	iP	19 01 35
	e	32 40
HH	iP	19 01 45
SLC	eP	19 01 40
July 6		
EUR	eP	19 43 46
July 6		
HH	iP	20 02 54
July 6		
BUT	eP	23 46 18
	e	46 39
COL	iP	23 43 43
EUR	iP	23 46 23
HH	iP	23 46 06
RC	eP	23 46 53
SLC	eP	23 46 36
July 7		
COL	iP	01 27 46
July 7		
BUT	eP	04 12 00
EUR	e(P)	04 11 07
	eP	12 10
RC	eP	04 11 15
July 7		
BC	eP	05 24 47
BOZ	eP	05 24 22
BUT	eP	05 24 14
	ePcP	25 59
COL	iP	05 21 03
	eS	25 07
	eL	26 08
COLU	eP	05 27 18

Date and Station		Phase (GCT) h m s
EUR	iP	05 24 25
HH	iP	05 23 56
	iPcP	25 52
RC	eP	05 25 05
SLC	eP	05 24 38
TUC	iP	05 25 24
	ePcP	26 34
TUC-T	iP	05 25 24
	ePcP	26 33
UK	eP	05 23 49
	e	24 22
July 7		
EUR	iP	06 39 11
July 7		
EUR	eP	09 02 07
	i	02 23
	iS	03 10
	eL	03 17
July 7		
EUR	eP	09 56 15
July 7		
BOZ	eP	13 46 17
BUT	eP	13 46 08
COL	iP	13 42 58
	eS	47 10
	eL	47 36
EUR	iP	13 46 20
HH	iP	13 45 52
	iPcP	47 47
RC	eP	13 46 58
TUC	iP	13 47 21
TUC-T	iP	13 47 21
July 7		
HH	eP	15 21 29
RC	eP	15 21 00
July 7		
COL	iP	16 24 30
July 7		
COL	eP	17 28 08
HH	eP	17 25 51
RC	eP	17 25 20
July 8		
COL	iP	01 26 15
HH	eP	01 24 47

Date and Station		Phase (GCT) h m s
RC	e(P)	01 28 06
	e	28 28
July 8		
HH	eP	04 49 08
July 8		
BC	eP	05 14 45
BUT	eP	05 13 50
COL	iP	05 12 57
COLU	eP	05 13 10
HH	iP	05 13 41
RC	eP	05 13 35
SLC	eP	05 14 14
TUC	iP	05 14 53
TUC-T	iP	05 14 51
July 8		
COL	iP	05 48 58
	i	49 18
	iS	50 10
	i	50 27
HH	e(P)	05 52 58
July 8		
BC	eP	06 18 45
COL	eP	06 19 23
HH	e(P)	06 19 23
TUC	eP	06 18 49
	eL	46 23
TUC-T	iP	06 18 50
July 8		
BC	eP	06 40 43
July 8		
COL	iP	07 08 09
HH	iP	07 06 40
RC	eP	07 05 49
	e	08 55
TUC-T	eP	07 06 19
	e	09 26
July 8		
COL	iP	07 11 15
HH	eP	07 09 47
July 8		
COL	e(P)	07 40 27
	i	41 54
	e	43 24

Date and Station		Phase (GCT) h m s
July 8		
COL	iP	08 50 44
TUC	eP	08 50 26
July 8		
HH	eP	10 50 04
TUC	e(P)	10 51 32
TUC-T	e(P)	10 51 34
July 8		
COL	eP	12 40 09
TUC	eP	12 40 21
TUC-T	eP	12 40 21
July 8		
COL	eP	15 32 57
July 8		
COL	eP	16 17 39
July 8		
BOZ	eP	17 21 40
BUT	eP	17 21 33
	e	21 42
COL	eP	17 18 59
EUR	iP	17 21 39
	i	21 49
HH	iP	17 22 22
	i	22 32
RC	eP	17 22 07
SLC	eP	17 21 51
July 8		
EUR	eP	22 45 39
July 8		
BC	eP'	23 08 41
	e	09 23
	ePKS	13 08
BOZ	eP'	23 08 38
	ePKS	13 15
BUT	eP'	23 08 39
COL	eP'	23 08 31
	i	09 03
	ePKS	12 43
EUR	eP'	23 07 40
	i	08 42
	i	09 33
	i(PKS)	13 21
	eP'P'	25 30
HH	iP'	23 08 39
	i	09 29

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Date and Station		Phase	(GCT) h m s
RC		eP'	23 08 32
SLC		eP'	23 08 38
		e	09 21
TUC		iP'	23 08 36
		i	09 18
		ePKS	12 42
TUC-T		iP'	23 08 36
		e	09 04
		e	10 23
		iPKS	12 41
July 9			
EUR		eP	01 29 01
HH		e(P)	01 28 09
		e	29 00
TUC-T		eP	01 28 05
		e	28 34
July 9			
EUR		eP	04 03 39
July 9			
EUR		eP	04 39 19
July 9			
BC		eP	05 25 10
		e	25 26
BUT		eL	05 29 37
EUR		eP	05 24 57
		i	25 12
		iS	26 06
		iL	26 13
HH		eP	05 26 44
SLC		e(P)	05 26 13
		e	28 19
		e	28 41
TUC		e(P)	05 26 11
		eL	29 15
TUC-T		eP	05 26 13
		e	26 38
		e	29 08
UK		e(P)	05 24 15
		i	24 25
		eL	25 02
July 9			
EUR		eP	06 20 00
TUC-T		e(P)	06 20 18
		e	22 26
July 9			
EUR		eP	10 00 00
July 9			
EUR		eP	10 58 49
		ipP	59 24

Date and Station		Phase	(GCT) h m s
July 9			
COL		iP	14 06 20
		ipP	08 24
EUR		iP	14 05 58
		epP	08 07
HH		eP	14 06 27
TUC		eP	14 06 01
TUC-T		iP	14 06 01
		epP	08 11
July 9			
COL		iP	14 29 27
EUR		iP	14 30 32
HH		iP	14 30 38
SLC		eP	15 09 41
		e	10 01
July 9			
BC		eP	15 24 25
BOZ		eP	15 25 12
		e(S)	31 44
		eL	37 45
COL		eP	15 28 40
		ipP	29 10
		i	29 39
COLU		eP	15 23 11
HH		iP	15 25 39
		ePcP	27 49
RC		eP	15 24 36
		ePP	25 39
TUC		eP	15 23 40
		e	30 24
		eL	34 28
TUC-T		iP	15 23 40
		e	24 53
		eL	31 35
July 9			
COL		iP	15 30 38
		eS	31 28
		eL	31 47
HH		eP	15 31 04
SIT		iP	15 27 30
		iS	27 47
		iL	27 49
July 9			
HH		eP	15 32 33
		eL	35 52

Date and Station		Phase	(GCT) h m s
July 9			
SIT		eP	16 28 57
		iS	29 15
		iL	29 17
July 9			
COL		eP	20 21 54
EUR		eP	20 25 22
		i	25 32
July 9			
EUR		eP	20 58 01
July 9			
EUR		eP	21 24 09
July 10			
EUR		eP	00 30 31
July 10			
EUR		iP	01 22 57
HH		e(P)	01 23 43
TUC		eP	01 22 13
TUC-T		eP	01 22 09
July 10			
COL		iP	02 33 02
July 10			
EUR		eP	03 06 20
July 10			
HH		e(P)	04 25 00
		e	25 51
		eL	26 09
July 10			
BH		iP	06 26 40C
		iS	36 18
BC		eP	06 21 36D
		e	24 35
		e	25 12
		e	35 37
BOZ		eP	06 20 29C
BUT		iP	06 20 17C
COL		eP	06 17 54C
COLU		eP	06 24 00C
		eL	32 45
EUR		iP	06 21 00C
HONO		eP	06 23 28
		iP	23 30D
		i	24 30
		iPP	25 08
		iS	29 46
		i	31 08
		iL	32 40
		eT	07 04 22
		iT	05 35
		iT	10 11
		iT	11 32

Date and Station		Phase	(GCT) h m s
HH		iP	06 19 49C
KIP		eP	06 23 27
		eT	07 04 32
RC		eP	06 21 19D
		iP	21 22
SLC		iP	06 21 07D
SJ		eP	06 26 28C
		i	26 43
SIT		iP	06 16 16D
TUC		eP	06 22 18C
		iP	22 20
		iPP	23 38
		iS	27 34
		eL	30 38
TUC-T		iP	06 22 17C
UK		iP	06 20 40D
July 10			
HH		eP	07 14 02
July 10			
COL		eP	07 46 26
HH		iP	07 49 19
RC		e(P)	07 50 44
		e	50 50
TUC		eP	07 51 42
TUC-T		iP	07 51 41
July 10			
COL		eP	07 59 41
HH		iP	08 02 40
RC		eP	08 04 03
TUC		iP	08 05 00
TUC-T		eP	08 04 58
July 10			
RC		eP	08 12 31
July 10			
TUC		eP	08 27 24
TUC-T		eP	08 27 24
July 10			
EUR		eP	08 33 15
July 10			
HH		eP	08 40 01
		i	40 18
		e	43 24
SIT		iP	08 36 32

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Date and Station		Phase (GCT) h m s
July 10		
BUT	eP	08 43 54
	e	46 31
EUR	eP	08 44 31
RC	eP	08 44 52
	e	49 38
	e	52 53
TUC	eP	08 45 49
TUC-T	eP	08 45 49
July 10		
BUT	eP	09 01 07
COL	eP	08 57 39
COLU	eP	09 02 45
EUR	eP	09 01 36
HH	eP	09 00 30
RC	eP	09 02 04
SIT	iP	08 56 55
TUC	eP	09 02 55
TUC-T	eP	09 02 55
July 10		
EUR	iP	09 07 56
RC	eP	09 10 45
SIT	iP	09 03 16
TUC	eP	09 09 13
TUC-T	eP	09 09 13
July 10		
EUR	eP	09 28 52
SIT	eP	09 24 10
July 10		
BC	eP	09 30 57
EUR	eP	09 30 24
HH	eP	09 29 17
SIT	iP	09 25 43
TUC-T	eP	09 31 40
	iP	31 42
July 10		
HH	eP	09 52 55
COL	eP	09 50 03
EUR	eP	09 53 12

Date and Station		Phase (GCT) h m s
July 10		
EUR	iP	10 07 06
HH	e(P)	10 05 57
RC	eP	10 10 38
	e	10 57
SIT	iP	10 02 21
TUC	eP	10 08 21
TUC-T	eP	10 08 21
July 10		
SIT	iP	10 05 39
TUC	eP	10 11 37
TUC-T	iP	10 11 36
July 10		
EUR	iP	10 10 21
HH	eP	10 09 12
July 10		
EUR	iP	10 18 38
RC	e(P)	10 18 54
SIT	iP	10 13 54
TUC-T	eP	10 19 53
July 10		
BC	eP	10 22 40
BOZ	eP	10 21 34
	e	24 09
	e	28 29
BUT	eP	10 22 24
	e	24 45
	e	27 55
EUR	iP	10 22 05
HH	eP	10 20 57
RC	eP	10 22 23
	e	27 04
	eL	30 09
SIT	iP	10 17 43
TUC	eP	10 23 20
	e	23 24
TUC-T	iP	10 23 19
July 10		
EUR	eP	10 51 09
July 10		
BC	eP	11 42 40
BUT	eP	11 41 28
	eL	47 10

Date and Station		Phase (GCT) h m s
COL	eP	11 39 01
	e(S)	40 42
EUR	iP	11 42 07
HH	eP	11 41 00
RC	eP	11 42 27
SLC	eP	11 42 14
SIT	iP	11 37 25
TUC	eP	11 43 25
TUC-T	iP	11 43 24
July 10		
EUR	iP	11 50 24
SIT	iP	11 45 40
TUC-T	eP	11 51 40
July 10		
EUR	iP	12 22 08
July 10		
BC	eP	12 32 46
BOZ	eP	12 31 44
BUT	eP	12 31 34
	e	38 02
COL	eP	12 28 08
	i	28 33
	i(S)	29 52
EUR	iP	12 32 11
HH	eP	12 31 04
RC	eP	12 32 32
	eL	41 58
SIT	iP	12 27 42
TUC	eP	12 33 27
	i	33 31
TUC-T	iP	12 33 27
July 10		
COLU	e	12 50 33
EUR	eP	12 48 16
July 10		
EUR	eP	12 53 49
HH	eP	12 52 41
RC	eP	12 54 04
July 10		
EUR	eP	13 04 11

Date and Station		Phase (GCT) h m s
July 10		
COLU	eP	13 17 24
July 10		
BC	eP	13 22 07
BOZ	eP	13 21 44
BUT	eP	13 20 54
	e	26 36
COL	iP	13 18 26
	i	18 39
	i(S)	20 20
EUR	iP	13 21 35
HH	eP	13 20 24
RC	eP	13 21 53
	eL	29 42
SLC	eP	13 21 39
SIT	iP	13 16 50
TUC	eP	13 22 50
TUC-T	iP	13 22 50
July 10		
EUR	eP	13 26 06
July 10		
EUR	eP	13 55 03
July 10		
EUR	iP	14 42 22
	i	42 45
HH	e(P)	14 41 12
SIT	iP	14 37 40
TUC-T	eP	14 43 37
July 10		
BOZ	eP	15 07 07
	e	13 51
BUT	eP	15 07 02
	e	13 30
COL	eP	15 03 30
	i	03 55
	i(S)	05 06
EUR	eP	15 07 37
HH	eP	15 06 29
RC	eP	15 08 01
	eL	16 11
SIT	eP	15 03 12
TUC-T	eP	15 08 52

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

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Date and Station		Phase (GCT)
		h m s
July 12		
EUR	eP	00 11 36
July 12		
EUR	eP	00 40 14
July 12		
EUR	eP	00 54 05
July 12		
BH	eP	00 54 37
	iL	01 01 53
BC	eP	00 56 19
	e	56 31
BOZ	eP	00 57 31
BUT	eP	00 57 33
COL	eP	01 00 18
	eS	10 05
	eSS	14 31
	eL	24 39
COLU	iP	00 56 51
EUR	iP	00 56 49
HONO	eS	01 06 30
	eL	12 20
HH	iP	00 57 51
RC	eP	00 57 17
SLC	eP	00 56 53
SJ	iP	00 56 49
TUC	eP	00 55 44
	e	56 31
	ePP	57 04
	eS	01 01 37
	eL	04 30
TUC-T	eP	00 55 44
	eL	01 07 20
UK	eP	00 57 01
WASH	eP	00 57 39
	eL	01 12 11
July 12		
EUR	iP	01 11 28
HH	eP	01 12 31
July 12		
BH	e	02 41 37
	iL	45 09
BC	eP	02 39 48
COL	eP	02 43 43
COLU	eP	02 40 11

Date and Station		Phase (GCT)
		h m s
EUR	iP	02 40 12
HH	e(P)	02 41 13
RC	eP	02 40 42
TUC	eP	02 39 08
	eL	49 46
TUC-T	eP	02 39 11
July 12		
BC	eP	03 41 44
BOZ	eP	03 41 57
BUT	eP	03 41 51
COL	iP	03 40 21
EUR	iP	03 41 39
HONO	eT	04 15 17
	iT	15 29
	e	17 09
HH	iP	03 41 45
RC	iP	03 42 28
SLC	eP	03 41 55
TUC	iP	03 42 06
	e	43 47
TUC-T	iP	03 42 06
July 12		
EUR	eP	04 45 54
July 12		
EUR	eP	05 16 32
July 12		
EUR	eP	06 39 23
SLC	eP	06 37 32
July 12		
HH	e(P)	12 15 41
July 12		
EUR	eP	15 57 58
July 12		
COL	eP	16 53 38
	i	53 57
	iS	54 54
	iL	55 17
HH	e(P)	16 57 10
July 12		
COL	eP	17 10 21
	e	11 35
	eL	11 41
HH	iP	17 13 52

Date and Station		Phase (GCT)
		h m s
July 12		
BUT	eP	18 05 25
HH	eP	18 03 33
	e(S)	03 57
	iL	04 00
July 12		
COL	eP	18 25 13
	iL	27 30
EUR	eP	18 25 17
HH	e(P)	18 24 59
July 12		
EUR	eP	18 29 17
July 12		
EUR	eP	18 52 18
July 12		
COL	e(P)	19 00 24
	e	00 33
	i	02 31
	iL	03 24
EUR	eP	19 03 25
HH	eP	19 02 17
RC	eP	19 03 47
SIT	iP	18 58 39
July 12		
COL	eP	19 57 59
	i	58 21
	iS	59 54
	iL	20 00 12
EUR	eP	20 01 30
July 12		
EUR	eP	20 41 34
July 12		
EUR	eP	22 42 32
July 13		
EUR	eP	01 31 25
July 13		
BUT	eP	01 45 32
EUR	iP	01 45 36
HH	e(P)	01 43 46
	eL	44 52
July 13		
BOZ	eP	05 35 50
BUT	eP	05 36 02
	e	36 28
July 13		
COL	iP	06 59 58

Date and Station		Phase (GCT)
		h m s
EUR	eP	06 58 01
July 13		
BC	eP	08 15 42
BOZ	eP	08 14 38
	e	15 04
	eL	20 19
BUT	eP	08 14 29
	e(S)	18 32
	eL	20 01
COL	eP	08 12 08
	i	12 56
	e(S)	14 15
	eL	14 29
COLU	eP	08 18 12
	e	20 03
	eL	32 08
	e	33 15
EUR	iP	08 15 08
HONO	eT	08 59 09
	i	59 49
HH	iP	08 13 58
	iL	18 44
RC	iP	08 15 32
	eL	23 21
SLC	eP	08 15 15
	e	16 18
	eL	22 37
SIT	iP	08 10 24
TUC	eP	08 16 25
	eL	26 54
TUC-T	eP	08 16 24
	eL	26 55
WASH	eP	08 18 40
	eSS	29 27
	eL	31 47
July 13		
COL	eP	08 25 45
	i	25 54
	iS	26 37
	iL	26 46
July 13		
EUR	eP	09 26 10
July 13		
EUR	eP	09 49 17
July 13		
BOZ	eP	11 28 30
	e	34 31
BUT	eP	11 28 21

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

Date and Station		Phase (GCT) h m s
SIT	eP	06 00 36
	i	00 44
TUC	eP	06 06 20
TUC-T	eP	06 06 20
July 15		
COL	eP	06 40 06
	iP	40 09
EUR	eP	06 43 37
TUC	eP	06 44 39
TUC-T	e(P)	06 44 39
July 15		
EUR	eP	07 20 37
July 15		
COL	eP	08 11 26
EUR	eP	08 12 50
RC	eP	08 12 07
July 15		
BC	eP	09 00 48
	e	01 23
EUR	eP	09 01 37
	eS	02 33
	iL	02 46
July 15		
BH	iP	15 06 18
	iS	07 11
BOZ	eP	15 13 06
EUR	eP	15 12 48
TUC-T	eP	15 11 45
	e	12 31
July 15		
TUC-T	eP	16 13 41
July 15		
EUR	eP	16 23 57
July 15		
COL	eP	17 04 04
	e	04 24
July 15		
EUR	eP	22 02 34
July 15		
EUR	eP	22 35 24
RC	eP	22 35 51
July 15		
EUR	eP	22 38 52
July 16		
BOZ	eP	00 36 44

Date and Station		Phase (GCT) h m s
BOZ	e	00 36 52
BUT	eP	00 36 45
COL	eP	00 33 21
COLU	eP	00 39 47
EUR	iP	00 36 50
RC	eP	00 37 28
	e	37 36
TUC-T	eP	00 37 51
July 16		
BC	eP	01 55 58
BOZ	eP	01 55 17
	e	56 26
COL	eP	01 51 56
	eS	55 56
	eL	58 25
COLU	eP	01 58 20
EUR	iP	01 55 23
RC	eP	01 56 02
TUC	eP	01 56 24
	e	56 36
TUC-T	e(P)	01 56 24
	e	56 36
July 16		
EUR	eP	02 56 23
July 16		
EUR	eP	03 47 23
SIT	eP	03 45 43
	e	46 03
TUC	e(P)	03 46 12
TUC-T	eP	03 46 12
July 16		
BC	eP	04 01 06
BOZ	eP	04 00 37
BUT	eP	04 00 31
COL	eP	03 57 17
	eS	04 01 05
	eL	01 29
COLU	eP	04 03 40
EUR	iP	04 00 43
RC	iP	04 01 22
	eS	08 24
SLC	eP	04 00 58

Date and Station		Phase (GCT) h m s
SIT	eP	03 58 03
	e	58 15
TUC	eP	04 01 44
	e	01 57
	e	02 09
July 16		
COL	iP	06 17 18
	eS	17 56
	eL	18 13
EUR	iP	06 22 34
TUC	eP	06 23 46
TUC-T	eP	06 23 46
July 16		
EUR	iP	06 25 32
July 16		
TUC-T	iP	04 01 44
	e	02 07
July 16		
EUR	eP	12 26 03
July 16		
BH	iP	13 03 16
	iS	10 22
BC	eP	13 05 03
BOZ	eP	13 06 04
BUT	eP	13 06 05
COL	iP	13 07 56
COLU	eP	13 05 35
EUR	eP	13 05 25
	eP'P'	33 59
RC	eP	13 05 57
SLC	eP	13 05 34
TUC	iP	13 04 39
	e(S)	13 04
	eL	23 43
TUC-T	iP	13 04 39
	ePP	07 13
UK	eP	13 05 30
July 16		
BC	eP	13 21 40
EUR	iP	13 21 55
RC	eP	13 22 29
TUC	eP	13 21 09
TUC-T	eP	13 21 09
	i	21 16

Date and Station		Phase (GCT) h m s
July 16		
COL	eP	14 11 55
	e	13 52
	i	16 43
EUR	eP	14 14 56
SIT	iP	14 10 14
	i	10 34
July 16		
EUR	iP	14 28 45
TUC-T	e(P)	14 27 35
	e	27 38
July 16		
BC	e(P)	17 07 39
COL	eP	17 06 50
EUR	iP	17 07 12
TUC-T	e(P)	17 07 28
	e	07 55
July 16		
EUR	eP	18 42 35
July 16		
COL	eP	18 52 53
EUR	eP	18 53 15
TUC-T	eP	18 54 32
July 16		
EUR	eP	20 53 27
July 16		
EUR	eP	21 06 39
RC	eP	21 08 21
July 16		
EUR	eP	22 17 51
July 16		
EUR	eP	23 44 14
July 17		
COLU	eP	00 34 36
July 17		
UK	e(P)	00 46 44
	e	46 56
July 17		
RC	iP	01 56 28
July 17		
RC	e(P)	02 34 08
July 17		
BOZ	eP	05 49 44
BUT	eP	05 49 46

Date and Station		Phase	(GCT)
			h m s
COL	e(P)		05 48 47
	i		48 51
COLU	eP		05 49 09
EUR	iP		05 50 18
	e		50 48
RC	eP		05 49 34
SLC	eP		05 50 08
TUC	eP		05 50 37
TUC-T	eP		05 50 36
	iP		50 39
	ePP		54 31
July 17			
COL	eP		06 07 45
	i		08 08
	iS		09 19
	iL		09 30
July 17			
EUR	eP		06 27 12
July 17			
COL	eP		06 41 42
July 17			
EUR	eP		11 23 56
July 17			
BOZ	eP		13 53 21
	eL		59 17
BUT	eP		13 53 10
	e		53 29
COL	iP		13 50 55
	e(S)		53 11
	eL		53 24
EUR	iP		13 53 50
KIP	eT		14 37 49
	iT		38 12
RC	eP		13 54 12
	eL		14 01 45
SLC	eP		13 53 59
	e		54 23
	eL		14 00 52
SIT	iP		13 49 02
TUC	eP		13 55 19
	eL		14 07 17
TUC-T	eP		13 55 06
	e		55 19
UK	eP		13 53 34
	e		54 14
July 17			
COL	eP		14 30 50

Date and Station		Phase	(GCT)
			h m s
COL	i(S)		14 32 33
	iL		32 42
SIT	e(P)		14 30 22
	e		30 24
July 17			
BC	eP		19 10 38
BOZ	eP		19 10 12
	e		10 22
BUT	eP		19 10 04
COL	iP		19 06 45
	i		06 52
	iS		10 38
	iL		11 02
COLU	iP		19 13 12
EUR	eP		19 10 10
	i		10 16
RC	iP		19 10 56
	eS		18 00
SLC	eP		19 10 31
	e		10 40
SJ	eP		19 14 46
	i		15 10
	e		17 20
SIT	eP		19 07 35
	i		07 49
TUC	eP		19 11 17
	e		11 27
	e		11 49
	eL		27 20
TUC-T	eP		19 11 16
	i		11 28
UK	e(P)		19 09 42
	e		09 52
WASH	eP		19 10 06
	e		10 18
July 17			
BC	eP		19 38 02
	e		38 28
BOZ	eP		19 37 35
BUT	eP		19 37 27
COL	eP		19 34 14
COLU	eP		19 40 35
EUR	iP		19 37 40
RC	iP		19 38 19
SJ	eP		19 42 30

Date and Station		Phase	(GCT)
			h m s
SIT	eP		19 34 59
TUC	eP		19 38 40
	e		38 47
	eL		57 10
TUC-T	eP		19 38 40
UK	eP		19 37 05
	e		37 19
July 17			
TUC-T	eP		20 08 25
	i		08 37
July 17			
BC	eP		20 36 48
BOZ	eP		20 36 14
COLU	eP		20 39 15
EUR	eP		20 36 07
	i		36 18
RC	eP		20 36 53
TUC-T	eP		20 37 18
	i		38 10
July 17			
BC	eP		21 07 48
	e		08 05
BOZ	eP		21 07 21
	e		07 31
BUT	eP		21 07 25
COL	iP		21 03 59
	iS		07 46
	iL		08 00
COLU	iP		21 10 21
EUR	iP		21 07 25
HONO	eP		21 06 01
KIP	eP		21 05 59
RC	iP		21 08 03
	i		08 15
	eS		15 01
	eScS		17 59
SLC	eP		21 07 40
	e		08 17
SJ	iP		21 12 15
	i		12 28
SIT	iP		21 04 44
TUC	e(P)		21 08 26
	e		08 32
	eL		24 32
UK	eP		21 07 01

Date and Station		Phase	(GCT)
			h m s
WASH	eP		21 07 12
	e		07 26
July 17			
COLU	eP		21 21 29
EUR	iP		21 18 20
RC	e(P)		21 19 01
	e		19 11
July 17			
EUR	eP		22 13 03
July 17			
EUR	iP		22 48 35
July 17			
EUR	iP		23 11 53
July 17			
COL	eP		23 53 24
TUC	e(P)		23 57 58
July 18			
EUR	eP		00 29 18
TUC	eP		00 28 40
	eL		01 04 23
TUC-T	eP		00 28 36
July 18			
BC	eP		00 47 45
BOZ	eP		00 47 17
	e		47 45
BUT	eP		00 49 05
COL	iP		00 43 54
	iS		47 44
	iL		48 08
COLU	iP		00 50 18
EUR	eP		00 47 21
HH	iP		00 46 52
	i		47 06
	eS		53 11
KIP	eP		00 45 51
	i		46 24
RC	eP		00 47 59
	eS		55 26
SLC	eP		00 47 40
	ePP		49 40
	eL		59 23
SJ	eP		00 52 12
	i		52 25
SIT	eP		00 44 40

Date and Station		Phase (GCT)
		h m s
TUC	eP	00 48 23
TUC-T	eP	00 48 23
	i	48 33
	e	48 54
WASH	eP	00 47 06
	e	47 38
	eL	56 10
July 18		
EUR	eP	01 00 50
HH	iP	01 00 21
	i	00 33
TUC	eP	01 01 52
	eL	36 49
TUC-T	e(P)	01 02 03
July 18		
EUR	eP	01 18 40
July 18		
BH	iP	01 50 27
	iL	54 09
BC	eP	01 56 25
	epP	56 45
BOZ	eP	01 57 01
BUT	iP	01 57 08
	iPcP	58 01
COL	iP	01 59 49
COLU	iP	01 54 32
EUR	iP	01 56 48
	ipP	57 16
HH	iP	01 57 25
	iPcP	58 10
SJ	iP	01 52 50
	i	55 46
TUC	iP	01 55 47
	epP	56 07
TUC-T	iP	01 55 47
	epP	56 07
UK	eP	01 57 16
July 18		
HH	eP	02 33 00
TUC	e(P)	02 34 41
July 18		
EUR	iP	03 53 40
SIT	iP	03 48 54
	eS	49 14
	iL	49 16

Date and Station		Phase (GCT)
		h m s
July 18		
EUR	eP	04 30 37
July 18		
BUT	e(P)	06 50 04
July 18		
EUR	eP	09 56 45
HH	iP	09 56 16
July 18		
COL	eP	12 44 44
	i	44 48
EUR	eP	12 48 11
HH	eP	12 47 40
RC	eP	12 48 49
TUC	eP	12 49 14
TUC-T	e(P)	12 49 13
July 18		
EUR	iP	14 27 32
July 18		
EUR	e(P)	16 46 40
	eP	46 48
July 18		
BC	eP	17 09 44
BOZ	eP	17 08 41
	eL	14 54
BUT	eP	17 08 33
	eL	14 23
COL	eP	17 05 56
	eL	08 33
EUR	iP	17 09 13
RC	eP	17 09 30
	eL	17 29
SLC	eP	17 09 18
SIT	eP	17 04 31
	eS	04 52
	eL	04 54
TUC	eP	17 10 28
UK	eP	17 08 51
July 18		
RC	eP	21 07 28
July 18		
BUT	eP	21 51 52
COL	iP	21 48 57
EUR	eP	21 51 28

Date and Station		Phase (GCT)
		h m s
July 18		
COL	eP	22 23 18
	i	23 26
	i	23 33
	e(S)	24 32
	eL	24 41
July 19		
EUR	eP	00 13 44
July 19		
EUR	eP	01 00 44
July 19		
EUR	eP	01 32 42
July 19		
HH	iP	01 48 04
July 19		
HH	iP	01 48 04
July 19		
EUR	eP	02 09 40
HH	iP	02 09 11
TUC	e(P)	02 10 41
	e	10 54
July 19		
EUR	eP	04 52 22
HH	eP	04 52 08
July 19		
BC	eP	06 44 20
	ePP	48 32
BOZ	eP	06 44 26
	e	45 29
	e	49 51
COL	iP	06 42 50
	ipP	43 32
	isP	43 50
	iPP	46 17
	eS	53 03
	iPS	54 17
	isPS	54 33
	e(SS)	58 12
	eL	07 08 47
COLU	eP'	06 49 23
	esP'	50 05
	e	50 25
EUR	iP	06 44 14
	ipP	45 11
	iPP	48 31
	ipPP	49 30
	ePKKP	07 00 15
HONO	iP	06 41 03
	ipP	41 43
	isP	42 01
	iS	49 48
	i	51 48
	eL	56 45

Date and Station		Phase (GCT)
		h m s
HH	iP	06 44 15
	ePP	48 34
	ePKKP	59 58
KIP	eP	06 41 02
	ipP	41 40
	isP	42 00
SJ	iP'	06 49 55
	i	50 02
	i	50 25
	i	50 46
TUC	eP'	06 48 38
	ePP	50 07
	i	50 21
UK	eP	06 43 48
	e	44 08
	epP	44 48
July 19		
TUC	e(P)	08 21 37
July 19		
COL	iP	09 15 04
EUR	iP	09 15 12
KIP	eP	09 11 13
TUC	iP	09 15 17
July 19		
EUR	e(P)	11 26 52
HH	eP	11 26 21
TUC	e(P)	11 28 07
July 19		
EUR	eP	11 42 47
July 19		
EUR	eP	12 16 09
July 19		
BC	eP	15 09 07
BUT	eP	15 08 37
COL	eP	15 05 40
	i	05 44
EUR	iP	15 08 51
HH	iP	15 08 24
SLC	eP	15 09 02
TUC	eP	15 09 35
July 19		
BC	eP	17 31 50
BOZ	eP	17 31 19
	e	31 41

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Date and Station		Phase (GCT) h m s
BUT	eP	17 31 09
COL	eP	17 27 55
	eS	31 42
	eL	34 20
COLU	eP	17 34 18
	e	34 42
EUR	iP	17 31 22
SLC	eP	17 31 36
SJ	iP	17 36 12
SIT	eP	17 28 42
	e	29 13
TUC	iP	17 32 23
July 19		
EUR	eP	17 56 37
July 19		
BH	iP'	18 36 44
BC	eP'	18 35 59
BUT	e(P')	18 34 42
	ePP	36 03
	ePKKP	46 43
COL	eP	18 29 38
	eS	40 19
	eSS	45 50
	eL	54 06
COLU	eP'	18 36 17
EUR	eP	18 31 22
	ePKKP	46 34
HONO	eP	18 28 26
	e	29 19
	eS	37 58
	i	40 12
	eSS	42 30
	eL	46 34
KIP	iP	18 28 27
SLC	eP'	18 35 43
	ePP	36 16
SJ	eP'	18 37 01
	i	37 13
TUC	e(P')	18 35 46
	ePP	36 26
	eL	19 03 25
July 19		
BC	eP	19 01 07
COL	iP	19 01 29
EUR	iP	19 01 12
TUC	iP	19 01 14

Date and Station		Phase (GCT) h m s
July 19		
COL	eP	19 49 09
	i	48 17
EUR	eP	19 51 34
TUC	e(P)	19 52 40
	e	52 53
July 19		
EUR	e(P)	20 13 30
HONO	eP	20 06 06
July 19		
COL	iP	21 20 36
EUR	iP	21 20 18
July 19		
COL	eP	22 26 50
EUR	ePP	22 32 56
HONO	eP	22 25 41
KIP	eP	22 25 42
TUC	eP	22 26 47
July 20		
TUC	eP	00 13 43
July 20		
EUR	iP	00 57 21
July 20		
EUR	e(P)	01 32 11
July 20		
EUR	eP	01 35 55
July 20		
HH	e(P)	01 58 56
July 20		
EUR	eP	02 07 08
HH	e(P)	02 03 33
	e	04 13
	i	06 49
July 20		
HH	e(P)	03 17 31
July 20		
BOZ	eP	03 49 33
COL	eP	03 46 12
EUR	eP	03 49 36
	i	49 52
HH	iP	03 49 06
TUC	e(P)	03 50 37
July 20		
COLU	eP	06 29 10

Date and Station		Phase (GCT) h m s
EUR	e(P)	06 31 06
HH	eP	06 31 57
TUC	e(P)	06 30 09
July 20		
COL	eP	09 09 21
EUR	iP	09 10 22
July 20		
EUR	eP	11 17 51
TUC	e(P)	11 17 29
July 20		
BC	eP	11 55 52
	e	56 08
BUT	iP	11 56 27
EUR	iP	11 56 10
	i	56 27
HH	iP	11 56 40
	i	56 56
	i	57 02
SLC	eP	11 56 04
SJ	iP	11 52 42
TUC	iP	11 55 23
	i	55 40
July 20		
HH	e(P)	14 26 44
July 20		
COL	eP	16 10 33
EUR	e(P)	16 06 42
	eP	07 42
HH	eP	16 07 46
	iP	07 48
TUC	eP	16 09 39
July 20		
EUR	eP	18 48 38
July 20		
EUR	iP	18 52 51
July 21		
EUR	eP	00 12 55
July 21		
EUR	eP	01 11 23
July 21		
EUR	eP	04 06 20
HH	e(P)	04 05 54
RC	e(P)	04 07 22

Date and Station		Phase (GCT) h m s
July 21		
HH	e(P)	05 54 24
July 21		
BC	eP	07 36 16
	e(PcP)	36 28
BOZ	eP	07 35 55
	ePcP	36 33
BUT	eP	07 35 43
	e	35 55
COL	iP	07 32 39
	iS	38 43
	eL	41 52
COLU	eP	07 38 03
EUR	iP	07 35 57
	i	36 11
	eP'P'	08 04 21
HH	iP	07 35 28
	i	35 39
	eP'P'	08 04 27
KIP	eP	07 34 06
RC	iP	07 36 23
	i	36 34
SLC	eP	07 36 08
	e(PcP)	36 20
SIT	eP	07 33 40
TUC	iP	07 36 45
	eL	57 26
TUC-T	iP	07 36 45
July 21		
BH	iP	09 41 28
	iL	44 14
BOZ	eP	09 46 35
BUT	eP	09 46 43
COL	eP	09 49 59
COLU	iP	09 44 15
EUR	eP	09 46 15
HH	eP	09 47 03
	iPcP	48 58
RC	iP	09 45 59
TUC	eP	09 45 16
	eL	58 51
TUC-T	eP	09 45 15
July 21		
BOZ	eP	12 00 38

Date and Station		Phase (GCT)
		h m s
BUT	eP	12 00 32
	e	06 47
	e	07 53
COL	iP	11 58 11
	eS	12 01 03
	eL	01 13
EUR	iP	12 01 30
HH	iP	11 59 57
RC	eP	12 01 14
	eL	08 56
July 21		
COLU	eP	12 17 14
July 21		
BH	iP	14 50 12
	eS	15 00 35
BC	iP	14 45 52
	e	45 59
BOZ	iP	14 45 25
	e	46 35
	e(S)	51 52
BUT	iP	14 45 15
	e(S)	50 54
COL	iP	14 42 01
	eS	45 46
	iS	46 17
	eL	48 11
	eP'P'	15 16 06
COLU	iP	14 48 23
EUR	iP	14 45 30
	iPcP	47 17
	eP'P'	15 16 31
HONO	eP	14 44 04
	iS	49 30
	iL	51 48
	eT	15 19 30
	iT	20 00
HH	iP	14 44 59
	iS	50 45
	e(ScS)	55 24
KIP	eP	14 44 04
	eT	15 19 12
	iT	20 02
RC	iP	14 46 07
	ePP	48 13
	e(S)	53 11
SLC	iP	14 45 44
	i	45 49
	ePP	47 53
	e(S)	52 28
SJ	iP	14 50 14

Date and Station		Phase (GCT)
		h m s
SIT	eP	14 42 49
TUC	iP	14 46 30
	iS	53 52
	eScS	56 57
	eL	15 01 54
TUC-T	iP	14 46 30
UK	iP	14 44 55
	ePcP	46 42
	eL	57 15
WASH	iP	14 48 12
	e(S)	57 08
July 21		
EUR	eP	15 41 59
HH	eP	15 42 42
RC	eP	15 44 26
July 21		
EUR	eP	16 13 59
July 21		
EUR	eP	18 22 36
RC	eP	18 22 30
July 21		
BC	eP	18 46 08
COL	eP	18 45 39
	i	45 56
	i	46 06
EUR	eP	18 45 54
July 21		
COL	eP	22 57 52
EUR	eP	22 57 17
July 22		
TUC	eP	01 01 33
TUC-T	eP	01 01 33
July 22		
COL	eP	02 51 15
EUR	eP	02 54 44
HH	iP	02 54 13
	i	56 45
RC	eP	02 55 24
TUC	eP	02 55 48
TUC-T	eP	02 55 49
July 22		
BH	eP	03 15 11
	iS	19 57

Date and Station		Phase (GCT)
		h m s
July 22		
EUR	eP	03 24 13
July 22		
SLC	eP	03 43 00
	e	44 24
July 22		
BOZ	eP	04 00 16
	eL	06 37
BUT	eP	04 00 06
	eL	06 07
COL	eP	03 57 31
	e(S)	59 35
	eL	59 45
EUR	iP	04 00 47
	i	01 00
HH	eP	03 59 38
RC	eP	04 01 06
SIT	eP	03 56 04
	i	56 07
	iS	56 28
	iL	56 31
TUC	eP	04 02 04
TUC-T	eP	04 02 03
July 22		
BC	eP	05 17 13
BOZ	eP	05 16 38
	e	16 53
COL	eP	05 13 17
	i	13 22
	e(S)	17 11
	eL	17 30
EUR	iP	05 16 42
HH	iP	05 16 13
	ePcP	18 17
	e(S)	22 17
RC	eP	05 17 21
TUC	e(P)	05 17 47
July 22		
TUC	eP	06 48 48
TUC-T	eP	06 48 48
July 22		
COL	iP	07 35 30
EUR	iP	07 34 56
TUC	eP	07 34 53
TUC-T	iP	07 34 53

Date and Station		Phase (GCT)
		h m s
July 22		
EUR	eP	07 43 51
July 22		
EUR	eP	08 36 10
July 22		
EUR	iP	10 07 55
July 22		
COL	eP	10 39 45
	i	39 56
	e(S)	42 03
	eL	42 23
EUR	iP	10 43 15
HH	eP	10 42 06
	e(S)	47 15
RC	eP	10 43 32
SIT	eP	10 38 36
	i	39 05
July 22		
EUR	eP	11 38 18
SIT	eP	11 33 36
	i	34 01
July 22		
TUC-T	e(P)	11 59 18
July 22		
HH	e(P)	13 10 30
SLC	eP	13 07 26
	e	08 01
July 22		
COL	iP	15 06 01
	epP	08 22
EUR	iP	15 05 40
HH	e(P)	15 06 07
July 22		
SIT	iP	15 42 25
July 22		
COL	eP	17 08 47
	eL	10 47
HH	eP	17 11 13
SIT	e(P)	17 07 54
	eL	08 41
July 22		
HH	i(P)	17 28 38
July 22		
SIT	eP	18 49 41
July 22		
COL	eP	20 40 30

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

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Date and Station		Phase (GCT)
		h m s
SIT	e(S)	01 37 55
	eL	37 56
TUC-T	e(P)	01 43 35
July 25		
COL	eP	01 45 45
	eS	47 55
	eL	48 11
EUR	iP	01 48 55
SIT	iP	01 44 11
	e(S)	44 31
	eL	44 32
TUC	e(P)	01 50 11
TUC-T	eP	01 50 11
July 25		
COL	eP	02 03 17
July 25		
COL	iP	03 34 21
	e	34 52
	e	35 22
EUR	eP	03 34 49
HH	eP	03 34 21
	i	34 34
	e	36 56
TUC	eP	03 35 58
TUC-T	e(P)	03 35 58
	e	36 05
July 25		
EUR	eP	06 51 10
July 25		
EUR	eP	09 38 24
July 25		
HH	iP	09 54 36
	i	54 49
July 25		
COL	eP	12 24 15
EUR	eP	12 27 43
HH	iP	12 27 12
	i	29 25
	i	29 38
RC	eP	12 28 23
TUC	eP	12 28 51
TUC-T	eP	12 28 51
July 25		
BC	iP	14 02 55
	eS	03 25
	eL	03 42

Date and Station		Phase (GCT)
		h m s
EUR	eP	14 03 13
	i	03 23
	eS	04 03
	iL	04 10
TUC	eP	14 05 49
July 25		
EUR	eP	14 27 50
TUC-T	eP	14 27 50
July 25		
HH	eP	15 09 38
July 25		
HH	i(P)	16 21 47
July 25		
HH	e(P)	16 45 23
July 25		
COL	iP	16 55 13
EUR	eP	16 57 19
HH	iP	16 57 09
July 25		
COL	iP	18 02 50
HH	eP	18 03 39
July 25		
COL	iP	21 46 36
July 25		
BC	iP	22 16 44
	i(S)	16 49
	eL	16 54
July 25		
BC	iP	23 00 17
	iS	00 54
	eL	01 04
EUR	eP	23 00 58
	e(S)	02 13
	eL	02 33
July 26		
BC	iP	00 19 51
July 26		
COL	eP	02 12 38
EUR	eP	02 13 24
July 26		
COL	eP	04 04 55
July 26		
TUC	e(P)	04 29 56
July 26		
BC	e(P')	06 34 02
	ePP	38 43
BUT	eP'	06 34 01

Date and Station		Phase (GCT)
		h m s
COL	eP'	06 33 47
	iPP	37 42
EUR	eP'	06 34 02
HH	eP'	06 33 55
	i	34 46
	iPP	37 25
RC	e(P')	06 33 51
	e	34 00
TUC	eP'	06 33 57
	ePP	38 17
July 26		
COL	iP	08 49 39
	iS	49 57
	iL	50 00
HH	eP	08 54 35
July 26		
COL	eP	11 55 52
	e	56 08
July 26		
COL	iP	12 28 54
July 26		
COL	eP	16 05 32
July 26		
EUR	eP	17 35 30
July 26		
COL	iP	17 39 19
	eS	39 42
	iL	39 45
July 26		
BH	iP	17 41 47C
	i(S)	47 08
BC	eP	17 47 00D
	eS	54 49
	eL	18 06 36
BUT	eP	17 47 29D
	eS	55 59
	esS	59 35
COL	iP	17 49 39C
	iPP	53 52
	iSKS	59 22
	iS	18 00 13
	e(SPP)	02 22
	esS	04 10
	eL	19 08
COLU	eP	17 45 00C
EUR	iP	17 47 14D
HONO	iP	17 49 25C
	i	49 50
	ipP	51 42
	i	53 05
	iPP	53 37

Date and Station		Phase (GCT)
		h m s
HONO	ipPP	17 55 28
	iS	59 04
	iSP	18 01 03
	isS	03 36
	i	04 03
	isPS	05 04
	eSS	06 34
	isSS	09 56
	iSSS	10 56
	i	16 40
	eL	26 10
HH	iP	17 47 42D
	eS	56 20
	eP'P'	18 15 22
	eP'P'P'	34 32
KIP	iP	17 49 25C
	i	49 49
	ipP	51 36
	iPP	53 29
	ePKKP	18 11 16
RC	iP	17 47 53D
SLC	iP	17 47 05D
	e(S)	55 13
SJ	iP	17 42 47D
	iP'P'	18 10 18
	ipP'P'	12 00
	eSKPP'	14 22
	e(P'P'P')	27 38
SIT	eP	17 49 03D
	iP	49 04
	eSKS	58 37
	e(P'P')	18 16 37
	e(SKPP')	17 22
TUC	iP	17 46 23D
	e(P'P')	18 12 03
	i	13 55
TUC-T	iP'P'	18 13 55
UK	iP	17 47 39D
	epP	49 42
	eS	56 26
	eP'P'	18 15 10
	i	15 25
	eSKPP'	17 48
WASH	iP	17 45 28C
	epP	47 16
	iS	52 07
	e	55 16
July 26		
COL	iP	18 31 41
July 26		
EUR	eP	18 48 07
July 26		
EUR	eP	18 50 59

Date and Station		Phase (GCT) h m s
July 26		
EUR	eP	19 06 00
July 26		
EUR	eP	20 39 09
July 26		
BC	eP	20 41 59
COL	iP	20 40 28
EUR	iP	20 41 53
HH	iP	20 41 57
RC	eP	20 42 38
SLC	eP	20 42 10
TUC-T	eP	20 42 20
July 26		
EUR	eP	23 34 55
July 26		
EUR	eP	23 37 58
	i	38 16
July 27		
EUR	e(P)	00 33 47
July 27		
COL	iP	00 34 08
July 27		
BC	eP	00 34 00
	epP	36 04
COL	iP	00 34 26
	epP	36 35
EUR	iP	00 34 06
	ipP	36 08
HH	iP	00 34 33
	epP	36 39
	i	49 38
RC	e(P)	00 34 53
	epP	37 01
SLC	eP	00 34 22
SIT	eP	00 34 14
TUC	iP	00 34 06
	epP	36 13
	eP'P'	01 00 28
TUC-T	iP	00 34 07
	e	36 10
	ipP	36 15
July 27		
COL	eP	00 58 03
	e(S)	00 26
	eL	00 45
EUR	eP	01 01 08

Date and Station		Phase (GCT) h m s
HH	iP	01 00 00
	eL	04 58
SIT	iP	00 56 24
	iS	56 42
	iL	56 43
July 27		
COL	iP	02 00 50
July 27		
COL	eP	02 15 05
July 27		
COL	eP	02 19 10
EUR	iP	02 22 37
HH	iP	02 22 06
	ePcP	24 09
RC	eP	02 23 14
TUC	eP	02 23 37
July 27		
BC	eP	03 33 08
	e	33 14
COL	iP	03 29 24
EUR	iP	03 32 49
	i	32 56
	iPP	35 18
HH	iP	03 32 19
RC	eP	03 33 12
SIT	eP	03 30 33
TUC	iP	03 33 38
	ePcP	34 17
TUC-T	iP	03 33 38
	i	33 43
July 27		
COL	eP	05 15 48
July 27		
EUR	eP	08 15 26
HH	iP	08 15 15
July 27		
EUR	eP	14 10 35
TUC	eP	14 10 48
TUC-T	eP	14 10 48
July 27		
HH	eP	15 02 45
July 27		
COL	iP	17 14 15
EUR	iP	17 14 28

Date and Station		Phase (GCT) h m s
July 27		
COL	iP	17 17 27
	i(S)	18 15
	iL	18 28
July 27		
TUC	eP	17 28 36
TUC-T	eP	17 28 35
July 27		
BC	e(P')	17 39 16
	e	40 39
	e(PP)	44 30
BUT	ePP	17 43 35
COL	eP'	17 38 28
	ePP	41 15
COLU	eP'	17 38 52
	ePP	42 26
EUR	iP'	17 39 13
	i	40 18
	iPP	44 10
HH	eP'	17 39 05
	i	39 43
	ePP	43 27
RC	e(P')	17 39 09
	i	39 47
	ePP	43 37
SLC	eP'	17 39 16
	e	40 19
	ePP	44 03
TUC	iP'	17 39 21
	i	40 49
	ePP	44 30
TUC-T	iP'	17 39 16
	i	39 21
	i	40 46
	ePP	44 38
WASH	eP'	17 38 40
July 27		
EUR	eP	18 32 27
July 27		
BC	eP	18 40 14
	e	40 18
BUT	eP	18 39 13
COL	eP	18 39 27
	iP	39 30
EUR	iP	18 40 00
HH	iP	18 39 05
RC	eP	18 38 42
	ePcP	40 22

Date and Station		Phase (GCT) h m s
SLC	e(P)	18 39 37
	eP	39 41
TUC	eP	18 40 20
	e	40 23
TUC-T	eP	18 40 17
July 27		
COL	iP	19 02 16
July 27		
EUR	eP	19 57 53
TUC	eP	19 59 01
TUC-T	eP	19 59 00
July 27		
RC	eP	20 23 02
July 27		
EUR	eP	20 50 46
HH	eP	20 52 12
TUC	e(P)	20 51 14
TUC-T	eP	20 51 05
July 27		
EUR	eP	21 20 02
RC	e(P)	21 20 40
	e	23 34
July 27		
EUR	eP	22 09 42
HH	eP	22 08 47
July 28		
COL	eP	00 53 15
July 28		
BC	eP	01 36 18
COL	iP	01 35 09
	ipP	36 04
EUR	iP	01 36 13
	ipP	37 13
HH	iP	01 36 19
July 28		
COL	eP	03 30 55
EUR	eP	03 31 59
July 28		
COL	iP	03 34 41
	iS	35 29
	eL	35 57
EUR	eP	03 39 45
HH	iP	03 38 59

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

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

Date and Station		Phase (GCT)
		h m s
TUC-T	iP	15 55 59
July 31		
EUR	iP	15 57 45
July 31		
COL	eP	18 13 19
EUR	eP	18 16 44
HH	iP	18 16 12
	i	18 41
RC	eP	18 17 23
TUC-T	eP	18 17 46
July 31		
EUR	eP	21 47 51

Local and Minor Earthquakes

Date and Station	Phase (GCT)
July	
BUT	
5	22.0
11	16.6
19	18.2
July	
COL	
3	20.8
4	07.4
6	15.6
7	23.6
11	23.9
14	17.5
15	14.2
	21.2
	21.8
16	10.6
17	20.0
19	01.7
20	13.2
22	06.7
	17.0
23	16.6
25	17.7
29	17.7
30	04.8
31	19.8
July	
EUR	
4	07.8
	07.9
	12.2
5	14.6
11	23.9
12	07.0
22	13.1
	15.2
25	13.0
July	
HONO	
8	01.4
	01.7
July	h m s
HONO	
10	02.6
17	01.5
25	22.5
26	02.3
July	
KIP	
17	01.5
25	22.5
26	02.3
July	
RC	
1	00.2
July	
SLC	
1	09.3
5	08.5
10	01.6
16	17.8
July	
SJ	
2	09.1
3	14.6
6	17.9
7	16.2
8	00.5
	08.2
11	22.8
12	06.2
	08.6
21	05.9
	07.5
22	06.9
July	
SIT	
6	07.9
9	16.5
	16.6
	16.6
10	03.8
	08.8
	09.0
	09.8
	11.0
	12.3
	12.5
	13.4
	13.8
	15.3
	15.5
	15.7
	17.8
	21.4
	22.2
11	01.0
	03.2
	11.0
	19.8
	23.7
12	00.1
	19.9
13	10.5
	14.9
14	11.2
July	h m s
SIT	
14	13.3
17	06.1
24	21.0
	21.3
25	09.6
26	03.1
	04.2
	15.7
27	07.9
July	
TUC	
4	02.6
	08.2
5	02.8
	21.4
	23.8
6	17.5
	18.0
	18.2
	18.4
	18.8
	19.5
	19.6
	21.2
	21.3
	21.7
7	03.1
	11.3
	11.8
8	06.6
10	02.2
12	02.2
13	00.1
	08.5
14	07.1
15	09.0
16	00.3
	00.6
19	14.7
20	18.8
	18.9
21	13.9
22	04.2
23	09.4
24	05.5
25	07.5
	07.8
	23.0
27	20.6
28	07.6
	13.0
	13.3
	13.4
	13.5
	13.8
	14.2
	15.3
July	
UK	
2	09.6
7	09.0
14	21.9
16	16.4
25	03.6
	23.2
30	07.6
	h m s