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SEISMOLOGICAL BULLETIN

June, 1959

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COAST & GEODETIC SURVEY
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U. S. DEPARTMENT OF COMMERCE

Frederick H. Mueller, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1959

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
Guam, M. I. (GUAM)
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. D. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
Sitka, Alaska (SIT)
*Thule, Greenland (THULE)
U. S. Army Ionosphere Station
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, 1959 the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States.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 minute. Two asterisks (**) following an origin time indicates error of one-quarter minute. All origin times and location 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 Height, Canal Zone.

Date 1959	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
June	h m s	°	°	
1	05 31 31*	4 S.	154½ E.	Solomon Islands region. h about 400 km.
1	12 32 26*	6½ S.	155 E.	Solomon Islands. Felt at Rabaul, New Britain. h about 400 km.
1	17 07 23*	6½ S.	155½ E.	Solomon Islands. h about 100 km.
2	00 47 17*	31½ N.	131½ E.	Near coast of Kyushu, Japan.
2	01 56 32*	0	123½ E.	Off south coast of Minahasa, North Celebes. h about 200 km.
2	02 37 46*	21 N.	121 E.	Batan Islands region.
2	03 23 12*	25 S.	176 W.	Tonga Islands region.
2	03 31 55*	25½ S.	176 W.	do.
2	03 48 13*	25 S.	176 W.	do.
2	03 52 06*	25½ S.	176 W.	do.
2	04 57 18*	21 N.	121½ E.	Batan Islands region.
2	05 42 26*	43 S.	72 W.	Chile-Argentina border. h about 150 km.
2	05 42 34*	21½ N.	121½ E.	Batan Islands region.
2	17 18 16**			South Island, New Zealand.
2	19 13 30*	23 N.	121½ E.	Near east coast of Formosa.
3	03 43 42*	4 N.	77 W.	Near west coast of Colombia. Felt from Popayan to Medellin.
3	05 43 28*	52½ N.	170 W.	Fox Islands, Aleutian Islands.
3	08 36 04*	55½ N.	163 E.	Near east coast of Kamchatka.
3	22 17 45**			Colombia aftershock.
4	01 57 49*	9 N.	84½ W.	Near coast of Costa Rica.
4	12 31 56*	59½ N.	153 W.	Cook Inlet. h about 100 km. Mag. 5½.
4	21 34 21**			Tonga Islands region.
4	21 52 26**			do.
5	05 58 40*	7 S.	155½ E.	Solomon Islands. h about 150 km.
5	18 28 57*	3½ N.	126½ E.	Molucca Passage.
5	20 37 15*	12 N.	86½ W.	Near coast of Nicaragua. h about 100 km.
6	10 15 36*	15 S.	173½ W.	Samoa Islands region.
6	11 28 13*	16½ N.	93½ W.	Near coast of Chiapas, Mexico.
6	20 51 19*	6½ S.	155½ E.	Solomon Islands.
7	02 34 51**			Loyalty Islands region.
7	03 45 21*	10½ N.	126 E.	Samar, Philippine Islands. Felt at Surigao.
7	08 34 32**			Samar, Philippine Islands.
7	13 39 38*	½ N.	18 W.	Atlantic Ocean.
7	17 36 19*	19 S.	174 W.	Tonga Islands.
8	09 44 25**			About 150 miles south of east Java.
8	14 12 05*	14½ S.	76 W.	Near coast of Peru. h about 60 km.

Date 1959	Origin Time G. C. T.	Lat.	Long	Region, Focal Depth, and Remarks
June	h m s	°	°	
9	06 19 54*	6 S.	146½ E.	Near coast of New Guinea.
9	14 53 30*	33 S.	179½ W.	Kermadec Islands region.
9	23 10 38*	58 S.	9½ W.	About 600 miles southwest of Bouvet Island.
10	04 16 01*	36 N.	24 E.	Crete. Felt on Crete, Cyclades Islands, and in southern Greece.
10	09 49 53*	13½ N.	120 E.	Mindoro, Philippine Islands. h about 100 km.
10	10 50 32*	20½ S.	179 W.	South of Fiji Islands. h about 600 km.
10	23 54 46*	24½ S.	179 W.	Tonga Islands region.
11	01 09 31*	23½ S.	176 W.	do.
11	21 09 30**			Southern Greece.
11	23 32 47*	21½ S.	69½ W.	Northern Chile.
12	00 45 56*	51½ N.	175 W.	Fox Islands, Aleutian Islands.
12	22 25 53**			Off coast of Peru.
13	12 02 00*	36 N.	32 E.	Near south coast of Turkey.
13	12 58 07**			Kermadec Islands.
13	21 56 40*	46½ N.	13 E.	Austria-Italy border. Felt in northern Italy.
13	22 16 24**			Southern Peru.
14	00 11 57*	20½ S.	68 W.	Southwestern Bolivia. 1 killed and minor damage in northern Chile. h about 100 km. Mag. 7¼ - 7½.
14	01 26 34*	39½ N.	120½ W.	California. Felt in Sierra and Plumas Counties.
14	08 10 16**			Ceram Sea.
14	11 23 00*	45 N.	110½ W.	Northwest corner of Wyoming
14	14 56 57*	20 S.	173½ W.	Tonga Islands.
14	16 47 04*	27 N.	143½ E.	Bonin Islands.
14	20 48 42*	64 N.	152 W.	Alaska.
14	21 02 32*	23½ S.	179½ W.	Tonga Islands region. h about 300 km.
15	02 38 48*	25 N.	122½ E.	Near northeast coast of Formosa.
16	00 32 17*	42½ N.	124 E.	Bulgaria.
16	02 40 34*	4½ S.	143 E.	New Guinea.
16	03 28 45*	44 N.	19 E.	Yugoslavia.
16	08 02 05*	15 N.	93½ W.	Off coast of Chiapas, Mexico. h about 60 km.
16	12 45 55*	15½ N.	99½ W.	Off coast of Oaxaca, Mexico.
16	14 43 45*	51 N.	177 W.	Andreanof Islands, Aleutian Islands.
17	10 27 07*	34½ N.	98½ W.	Southwestern Oklahoma. Felt in Oklahoma and Texas.
17	10 43 44*	3 S.	135½ E.	Western New Guinea.
17	20 46 03*	12½ S.	167½ E.	Santa Cruz Island. h about 200 km.
18	00 29 48*	38½ N.	119½ W.	California-Nevada border. Felt in California.
18	00 33 33*	16 S.	167 E.	New Hebrides Islands.
18	06 50 45*	55 S.	129 W.	Pacific Ocean.

Date 1959	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
June	h m s	°		°		
18	08 49 55*	16	S.	168	E.	New Hebrides Islands.
18	15 31 25*	54	N.	160	E.	Near east coast of Kamchatka. Mag. 6¼ -6½ (Berk).
18	15 58 38*	54	N.	161	E.	Near east coast of Kamchatka. Mag. 6½ - 6-3/4.
19	01 37 51*	6	N.	82½	W.	South of Panama.
19	20 34 40*	27½	N.	111	W.	Gulf of California.
20	16 42 25*	32	N.	40	W.	Atlantic Ocean.
21	03 28 10*	3	S.	146	E.	Bismarck Sea.
21	05 47 27*	4½	S.	151½	E.	New Britain.
21	11 12 55*	17	S.	174½	W.	Tonga Islands region.
21	14 13 23*	0		124	E.	Northern Celebes region.
21	15 01 45*	21	S.	67	W.	Southern Bolivia. h about 200 km.
21	22 11 51*	11½	S.	167	E.	Santa Cruz Islands.
21	23 25 46*	29	S.	178	W.	Kermadec Islands.
21	23 30 05**					Jujuy Province, Argentina.
22	03 22 51*	4	S.	81	W.	Near coast of northern Peru.
22	09 16 34*	6	S.	152½	E.	New Britain region. h about 100 km.
22	13 04 53*	54½	N.	159	E.	Kamchatka.
22	14 06 50*	17	S.	177	W.	Fiji Islands.
23	10 44 55*	41½	N.	82	E.	Sinkiang Province, China.
23	11 55 43*	10½	S.	162½	E.	Solomon Islands.
23	14 32 38*	39½	N.	119	W.	Nevada foreshock. Felt. Mag. 4½ (Berk).
23	14 35 02*	39	N.	119	W.	Western Nevada. Felt in Nevada and eastern California. Mag. 6¼.
23	15 03 48*	39½	N.	119	W.	Nevada aftershock. Felt. Mag. 4½ (Berk).
23	15 04 36*	39	N.	119	W.	Nevada aftershock. Felt. Mag. 5½ (Berk).
24	04 24 22*	54	N.	160	E.	Near east coast of Kamchatka.
24	04 26 39*	51	N.	158½	E.	Off south coast of Kamchatka.
25	03 12 28**					Hindu Kush.
25	06 46 55*	62	N.	27½	W.	South of Iceland.
25	07 16 30*	62	N.	27	W.	Iceland aftershock.
25	09 50 48*	51½	N.	170	W.	Fox Islands, Aleutian Islands.
25	13 37 10*	30½	N.	131	E.	Ryukyu Islands.
25	14 34 57*	5	S.	152	E.	New Britain. Felt at Rabaul. h about 150 km.
26	00 05 50*	51½	N.	179	E.	Rat Islands, Aleutian Islands.
26	03 55 32*	6	S.	107	W.	About 1000 miles southwest of Galapagos Islands.
26	05 24 12*	30½	S.	177½	W.	Kermadec Islands.
26	08 35 51*	31	N.	139	E.	South of Honshu, Japan. h about 450 km.
26	13 44 41*	46	N.	27	E.	Romania. h about 100 km.

Date 1959	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
June	h m s	°		°		
26	22 24 54*	17	S.	176½	W.	Fiji Islands. h about 350 km.
27	19 04 27*	33	S.	179	W.	South of Kermadec Islands. h about 100 km. Mag. 6-3/4.
27	19 11 23*	42	N.	80	E.	China-U.S.S.R. border.
28	02 21 42*	29½	N.	141½	E.	Bonin Islands region.
28	04 23 28*	63½	N.	20	W.	Near south coast of Iceland
28	06 02 15**					Near west coast of Greece. Felt.
28	08 08 40**					Cayman Islands.
28	18 25 37**					Gulf of California.
28	19 43 22*	9½	S.	122½	E.	Sawoe Sea.
29	07 16 07*	7	S.	155½	E.	Solomon Islands. Mag. 6 - 6¼.
29	13 19 47*	6	N.	126½	E.	Near south coast of Mindanao, Philippine Islands. h about 150 km.
30	10 23 17*	34	S.	179	W.	South of Kermadec Islands.
30	13 22 45*	30	N.	131	E.	Ryukyu Islands.
30	22 42 02*	8½	N.	71½	W.	Northwestern Venezuela. h about 60 km.

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Mar. 4	23 00 30*	38	N.	133	E.	Near west coast of Honshu, Japan, should read 138 E.
12	01 29 07*	17	N.	145	E.	Caroline Islands. Mag. 6, should read 7 N.
Apr. 27	11 09 30*	15	N.	93	W.	Mexico-Guatemala border. Mag. 6½ - 6-3/4, should read 28 April.

Date and Station		Phase (GCT) h m s
June 1		
TUC-T	eP	02 49 09
June 1		
EUR	iP	04 39 04
	i	40 46
June 1		
COL	iP	05 43 04
	ipP	44 33
EUR	iP	05 44 03
	ipP	45 34
GUAM	eP	05 35 35
HH	iP	05 44 11
	epP	45 43
RC	eP	05 44 45
TUC-T	eP	05 44 23
June 1		
HH	e(P)	09 09 27
June 1		
EUR	eP	10 19 02
	i	21 24
TUC	e(P)	10 17 46
	e	17 55
	e(S)	18 35
	iL	18 36
TUC-T	eP	10 17 47
	i	18 02
	i(S)	18 38
	iL	18 41
June 1		
EUR	iP	11 36 52
June 1		
COL	iP	12 44 10
	ipP	45 41
	isP	46 28
EUR	iP	12 45 02
	ipP	46 38
GUAM	iP	12 36 55
	i(sP)	38 54
	eS	40 29
	e(ScP)	42 59
HH	eP	12 45 11
	e	46 41
KIP	eP	12 41 16
June 1		
EUR	eP	15 18 05
June 1		
COL	iP	15 51 00
June 1		
EUR	iP	16 37 18
	i	39 32

Date and Station		Phase (GCT) h m s
EUR	i	16 40 20
RC	eP	16 40 04
TUC	eP	16 36 39
	i	36 47
	eL	37 46
TUC-T	e(P)	16 36 32
	i	36 49
	iL	37 47
June 1		
COL	iP	17 19 37
	ipP	20 02
	eS	29 49
	e	31 49
	iPKKP	37 44
	eL	41 39
EUR	iP	17 20 29
	ipP	20 59
GUAM	eP	17 12 15
	iS	16 19
HONO	eP	17 16 34
	eS	24 04
	e	27 15
	eL	28 36
	eT	18 13 05
	iT	13 12
HH	eP	17 20 40
	ePP	24 28
June 1		
EUR	i(P)	17 38 37
June 1		
EUR	iP	17 53 09
June 1		
BH	iP	17 55 07
	iS	55 53
June 1		
HH	e(P)	18 15 21
RC	eP	18 16 08
	e	16 14
June 1		
EUR	eP	20 34 15
June 1		
COL	eP	20 31 09
EUR	iP	20 35 03
HH	e(P)	20 34 29
RC	eP	20 35 29
TUC-T	eP	20 36 03
June 1		
EUR	eP	21 53 31

Date and Station		Phase (GCT) h m s
June 1		
COL	eP	22 56 59
EUR	eP	22 59 06
HH	iP	22 59 02
GUAM	iP	22 48 57
	e(S)	50 17
June 2		
EUR	eP	00 39 49
	i	40 11
June 2		
BUT	eP	00 59 48
COL	iP	00 57 11
	i	57 23
	eS	01 05 11
	e	07 40
	eL	16 08
EUR	iP	00 59 58
	ePP	01 03 20
GUAM	iP	00 52 10
	eS	56 10
HH	iP	00 59 36
RC	iP	01 00 18
THULE	eP	00 58 39
TUC	eP	01 00 36
TUC-T	eP	01 00 35
	i	00 45
June 2		
EUR	i(P)	01 24 33
TUC	eP	01 23 13
TUC-T	eP	01 23 13
June 2		
EUR	i(P)	01 45 12
June 2		
COL	eP	02 09 09
	epP	10 03
	ePP	12 31
COLU	eP'	02 15 41
EUR	eP'	02 14 51
GUAM	eP	02 01 35
HH	iP'	02 14 47
RC	eP'	02 15 04
	ePP	16 28
SJ	iP'	02 16 50
TUC	iP'	02 15 05

Date and Station		Phase (GCT) h m s
TUC-T	iP'	02 15 05
June 2		
EUR	i(P)	02 25 38
June 2		
COL	iP	02 49 08
	i	49 16
	eS	58 33
	eL	03 12 12
EUR	eP	02 51 34
GUAM	eP	02 42 40
	iP	43 01
	eS	45 47
HH	iP	02 51 12
	i	51 20
SIT	iP	02 50 03
THULE	eP	02 50 17
TUC	e(P')	02 56 39
TUC-T	eP'	02 56 40
June 2		
COL	eP	03 18 11
HH	e(P)	03 17 23
June 2		
BOZ	eP	03 36 28
BUT	eP	03 36 25
COL	eP	03 36 27
EUR	iP	03 35 55
GUAM	eP	03 32 43
HH	iP	03 36 26
	ePP	40 06
KIP	eP	03 32 12
RC	eP	03 36 46
SLC	eP	03 36 13
TUC	iP	03 35 53
	e	36 36
	eL	04 02 12
TUC-T	eP	03 35 52
	iP	35 54
June 2		
BOZ	eP	03 45 10
BUT	eP	03 45 06
COL	iP	03 45 10
	ePP	49 11
	eSKS	55 44

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Date and Station		Phase	(GCT)
			h m s
COL	eL		04 09 31
EUR	iP		03 44 37
GUAM	iP		03 41 24
	i		41 40
	eT		04 06 32
HH	iP		03 45 08
	iPP		48 46
KIP	eP		03 40 53
	i		41 07
RC	iP		03 45 27
SLC	eP		03 44 55
SIT	eP		03 44 55
TUC	iP		03 44 34
TUC-T	iP		03 44 34
	e(PP)		47 48
UK	eP		03 44 16
June 2			
COL	iP		04 01 29
EUR	iP		04 00 56
GUAM	eP		03 57 42
HH	eP		04 01 27
RC	eP		04 01 45
TUC	iP		04 00 52
TUC-T	iP		04 00 53
June 2			
BOZ	eP		04 05 21
BUT	eP		04 05 18
COL	iP		04 05 22
EUR	iP		04 04 49
GUAM	e(P)		04 01 26
	iP		01 36
HH	iP		04 05 19
	ePP		08 53
KIP	eP		04 01 07
RC	eP		04 05 38
SLC	eP		04 05 05
SIT	eP		04 05 06
TUC	iP		04 04 45
	e		05 20
TUC-T	iP		04 04 46

Date and Station		Phase	(GCT)
June 2			h m s
COL	iP		05 08 40
	eS		18 05
	eL		29 15
EUR	iP		05 10 50
GUAM	iP		05 02 32
	e(S)		05 08
	eL		06 20
	eT		26 17
HH	eP		05 10 45
	ePP		14 25
SIT	eP		05 09 30
THULE	eP		05 09 51
June 2			
COL	eP		05 36 08
EUR	iP		05 35 35
TUC-T	eP		05 35 32
June 2			
BH	iP		05 51 25
BOZ	eP		05 55 35
BUT	eP		05 55 39
COL	iP'		06 01 09
	ePP		02 19
COLU	eP		05 54 07
EUR	iP		05 55 18
	ipP		55 39
HH	iP		05 55 49
	ePP		59 51
RC	iP		05 55 17
SLC	eP		05 55 16
SJ	iP		05 52 29
	epP		53 02
TUC	iP		05 54 38
TUC-T	iP		05 54 37
	ePKKP		06 13 08
WASH	iP		05 54 34
	esP		55 23
June 2			
COL	eP		05 53 56
GUAM	iP		05 47 48
THULE	eP		05 55 03
June 2			
COL	iP		12 57 31
	i		57 42

Date and Station		Phase	(GCT)
			h m s
EUR	e(P)		12 57 05
TUC	eP		12 57 04
	e		57 07
TUC-T	e(P)		12 56 58
	e		57 08
June 2			
COL	iP		15 39 17
EUR	iP		15 38 58
June 2			
EUR	iP		16 26 55
June 2			
COL	iP		17 50 35
EUR	iP		17 51 01
	i		51 30
TUC-T	iP		17 51 13
June 2			
TUC-T	eP		18 46 18
June 2			
BOZ	e(P)		18 51 22
BUT	eP		18 50 49
	i		51 08
	iS		52 34
	iL		53 01
EUR	iP		18 50 14
HH	e(P)		18 51 07
	iL		52 36
SLC	eP		18 51 01
TUC	eP		18 51 05
	e		52 09
UK	e(P)		18 50 32
	e		50 37
June 2			
COL	eP		19 24 42
GUAM	eP		19 18 45
June 2			
EUR	iP		20 35 43
June 2			
EUR	iP		20 53 15
	i		53 32
June 2			
EUR	e(P)		21 43 36
June 3			
EUR	eP		02 17 35
SJ	eP		02 17 18
TUC	e(P)		02 18 49

Date and Station		Phase	(GCT)
			h m s
TUC-T	e(P)		02 18 46
June 3			
COL	eP		03 16 49
June 3			
BH	iP		03 45 15
	iS		46 20
BOZ	eP		03 52 49
BUT	eP		03 52 58
COL	iP		03 55 45
	i		56 05
	eS		04 05 37
COLU	eP		03 50 12
EUR	iP		03 52 41
	i		52 57
	iPP		54 57
HH	eP		03 53 12
RC	iP		03 52 11
SLC	eP		03 52 28
SJ	iP		03 47 55
	e		48 27
	eS		51 25
TUC	iP		03 51 43
	ePP		53 22
TUC-T	iP		03 51 42
	i		51 57
WASH	eP		03 50 40
June 3			
COL	iP		04 09 39
June 3			
EUR	e(P)		04 27 24
	i		27 49
	i		28 37
June 3			
COL	eP		05 43 48
EUR	eP		05 47 10
June 3			
BOZ	eP		05 50 57
COL	iP		05 47 23
	eS		50 46
	eL		52 29
COLU	eP		05 53 55
EUR	iP		05 50 54
	i		51 11
HH	iP		05 50 21
	i		50 33

Date and Station		Phase (GCT)
		h m s
HH	iPcP	05 52 53
RC	iP	05 51 32
SLC	eP	05 51 20
SJ	iP	05 55 55
SIT	eP	05 48 07
TUC	eP	05 51 56
	i	52 06
TUC-T	iP	05 51 57
	i	52 04
	e	54 12
UK	eP	05 50 24
	e	50 43
June 3		
COL	e(P)	06 11 18
June 3		
EUR	eP	07 33 13
June 3		
COL	iP	08 41 35
EUR	iP	08 45 30
	i	46 50
HH	e(P)	08 44 49
TUC	eP	08 46 27
TUC-T	eP	08 46 27
	e	46 42
June 3		
EUR	iP	10 53 39
TUC	iP	10 53 38
TUC-T	iP	10 53 39
June 3		
COL	iP	11 49 39
EUR	iP	11 52 27
HH	iP	11 52 05
June 3		
EUR	i(P)	12 11 11
June 3		
EUR	eP	14 28 44
June 3		
EUR	iP	16 34 14
June 3		
EUR	eP	16 44 50
June 3		
EUR	iP	16 46 51

Date and Station		Phase (GCT)
June 3		h m s
EUR	eP	17 03 57
June 3		
EUR	eP	19 02 45
June 3		
EUR	e(P)	22 14 06
June 3		
EUR	eP	22 24 53
June 3		
COL	iP	22 29 44
EUR	iP	22 26 41
	iPcP	27 58
HH	e(P)	22 27 12
SJ	eP	22 21 57
TUC-T	eP	22 25 41
	e	25 56
June 3		
EUR	iP	22 44 53
June 3		
EUR	e(P)	23 34 52
June 4		
EUR	iP	01 45 58
June 4		
EUR	iP	02 03 16
June 4		
BH	iP	01 59 06
	iS	59 58
COL	eP	02 09 11
COLU	eP	02 03 15
EUR	iP	02 05 39
HH	iP	02 06 20
RC	eP	02 05 15
SJ	eP	02 02 23
TUC	eP	02 04 33
TUC-T	eP	02 04 33
June 4		
EUR	eP	04 39 00
TUC	eP	04 37 40
	i	43 47
TUC-T	eP	04 37 39
	e	43 38
June 4		
EUR	iP	06 04 39

Date and Station		Phase (GCT)
		h m s
TUC	eP	06 03 57
TUC-T	eP	06 03 58
June 4		
COL	eP	07 41 13
June 4		
BH	iP	08 06 58
	e	07 39
June 4		
GUAM	iP	08 57 52
	i(S)	52 57
	iL	53 14
HH	e(P)	09 04 58
June 4		
COL	e(P)	10 49 56
EUR	eP	10 46 18
June 4		
COL	eP	11 02 48
June 4		
BC	eP	12 38 35
BOZ	eP	12 37 46
	epP	38 05
BUT	eP	12 37 35
COL	iP	12 33 18
	iS	34 22
	iL	34 51
EUR	iP	12 38 05
	ipP	38 27
	iPP	39 12
HH	iP	12 37 14
	ipP	37 34
	iScP	44 17
	i	45 00
RC	eP	12 38 29
	epP	38 52
SIT	iP	12 34 09
	iS	35 46
TUC	iP	12 39 18
	epP	39 36
TUC-T	iP	12 39 17
	esP	39 54
	ePP	40 54
	e(ScP)	45 48
June 4		
EUR	iP	12 44 35
June 4		
EUR	iP	12 45 17

Date and Station		Phase (GCT)
June 4		h m s
EUR	eP	13 19 45
June 4		
EUR	eP	13 36 00
June 4		
EUR	eP	13 52 26
June 4		
EUR	eP	17 41 18
June 4		
EUR	iP	17 42 20
June 4		
EUR	e(P)	17 52 25
June 4		
EUR	iP	18 35 40
	i	36 14
June 4		
RC	e(P)	19 22 34
June 4		
COL	eP	20 28 02
EUR	eP	20 27 27
June 4		
COL	iP	21 47 16
EUR	eP	21 46 56
GUAM	iP	21 43 22
June 4		
BC	eP	22 04 13
COL	iP	22 04 54
EUR	eP	22 04 19
HH	eP	22 04 52
TUC-T	iP	22 04 20
June 4		
COL	eP	22 22 31
EUR	iP	22 25 59
	i	26 12
HH	iP	22 25 28
	i	27 37
RC	eP	22 26 38
SJ	eP	22 30 50
June 4		
COL	e(P)	22 34 48
June 4		
EUR	eP	23 16 17
June 5		
EUR	iP	01 46 06

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Date and Station		Phase	(GCT) h m s
June 5			
COL		iP	02 17 08
		iS	17 37
		iL	17 44
EUR		iP	02 23 12
June 5			
GUAM		i(P)	03 29 57
June 5			
EUR		e(P)	04 20 08
TUC-T		eP	04 21 48
June 5			
EUR		eP	06 07 33
June 5			
COL		eP	06 10 53
EUR		iP	06 11 46
June 5			
HH		iP	06 33 23
		iL	33 44
June 5			
COL		iP	07 59 10
EUR		iP	07 58 48
HH		eP	07 59 15
TUC		iP	07 58 48
TUC-T		eP	07 58 48
June 5			
EUR		iP	08 34 07
June 5			
COL		iP	09 45 39
		i	45 46
June 5			
EUR		i(P)	10 00 12
June 5			
COL		eP	12 14 39
EUR		eP	12 18 02
June 5			
EUR		e(P)	14 44 45
June 5			
COL		eP	18 41 36
GUAM		iP	18 33 36
June 5			
EUR		eP	19 17 26
June 5			
COL		iP	19 55 24
EUR		iP	19 59 15
		i	59 31
GUAM		iP	19 45 50
HH		iP	19 58 36
		i	59 53
RC		iP	19 59 36
TUC-T		eP	20 00 09
June 5			
BH		eP	20 39 02
BOZ		eP	20 44 43
BUT		eP	20 44 52
COL		iP	20 48 03
COLU		eP	20 42 16
		eS	46 34
EUR		eP	20 44 29
		ipP	46 44
HH		eP	20 45 10
		iPcP	47 01
RC		eP	20 44 05
SJ		eP	20 41 56
		epP	42 17
TUC		eP	20 43 24
		i	43 30
		eL	52 30
TUC-T		eP	20 43 22
		i	43 30
WASH		iP	20 43 07
		eL	52 53
June 5			
EUR		eP	21 19 45
June 5			
EUR		iP	21 30 08
		i	30 34
HH		eP	21 31 27
RC		eP	21 31 07
TUC-T		eP	21 29 46
June 5			
EUR		e(P)	21 47 16
June 5			
RC		eP	22 50 20
June 5			
HH		iP	23 21 16
		iS	21 22
		iL	21 24
June 6			
GUAM		eP	00 51 57
June 6			
EUR		iP	01 40 12
June 6			
HH		e(P)	01 55 39
June 6			
EUR		e(P)	02 00 52
June 6			
EUR		eP	02 08 57
June 6			
EUR		iP	03 43 01
HH		e(P)	03 42 30
SJ		iP	03 35 49
		e	35 57
		i(S)	36 07
		eL	36 09
June 6			
EUR		eP	04 28 22
June 6			
COL		iP	05 23 59
EUR		iP	05 27 55
HH		eP	05 27 16
RC		eP	05 28 17
TUC		eP	05 28 51
TUC-T		eP	05 28 51
June 6			
COL		e(P)	09 14 56
June 6			
BUT		eP	10 27 00
COL		iP	10 26 58
		i	27 05
EUR		iP	10 26 29
HH		eP	10 27 00
TUC		eP	10 26 30
TUC-T		iP	10 26 31
June 6			
COL		eP	10 44 50
June 6			
EUR		iP	11 29 20
TUC		eP	11 29 16
TUC-T		iP	11 29 16
June 6			
BC		eP	11 34 02
BUT		eP	11 35 00
COL		iP	11 38 26
COLU		e(P)	11 33 13
EUR		iP	11 34 30
HH		eP	11 35 21
RC		e(P)	11 34 29
		e	35 19
TUC		iP	11 33 16
		eL	41 10
TUC-T		iP	11 33 16
June 6			
COL		eP	13 28 05
EUR		e(P)	13 31 37
June 6			
HH		i(P)	15 51 30
June 6			
TUC-T		eP	16 35 10
June 6			
EUR		iP	17 46 10
June 6			
EUR		eP	19 02 10
June 6			
COL		iP	20 17 39
		iS	18 22
		iL	18 34
EUR		eP	20 20 51
June 6			
BOZ		eP	21 01 14
June 6			
COL		iP	21 03 45
EUR		eP	21 04 36
GUAM		eP	20 56 25
June 6			
EUR		e(P)	23 10 19
June 7			
GUAM		eP	00 45 14
		e(L)	45 36
June 7			
RC		eP	01 01 32
June 7			
GUAM		eP	02 04 01
		eS	04 32
		eL	04 45
June 7			
COL		eP	03 57 26

Date and Station		Phase (GCT)
		h m s
GUAM	eP	03 49 39
June 7		
TUC-T	eP	04 16 53
June 7		
GUAM	eP	04 43 36
	eS	44 00
	iL	44 08
June 7		
GUAM	eP	05 25 51
	iS	26 35
	iL	26 57
June 7		
COL	iP	05 36 49
	iS	37 57
	iL	38 09
EUR	eP	05 41 50
HH	iP	05 40 57
TUC	eP	05 43 03
TUC-T	eP	05 43 03
June 7		
HH	e(P)	06 02 15
June 7		
GUAM	eP	06 24 17
	eS	24 38
	eL	25 00
June 7		
COL	e(P)	06 55 08
June 7		
COL	e(P)	07 02 17
June 7		
COL	e(P)	07 33 10
June 7		
GUAM	eP	07 48 35
	iS	48 56
	eL	49 07
June 7		
COL	iP	08 44 16
June 7		
COL	eP	08 46 38
GUAM	iP	08 38 53
SJ	eP'	08 54 23
June 7		
TUC-T	e(P)	09 23 04
June 7		
COL	eP	12 39 36
EUR	eP	12 43 06

Date and Station		Phase (GCT)
June 7		h m s
COL	iP	13 40 09
June 7		
COLU	eP	13 50 42
EUR	eP	13 53 11
HH	eP	13 53 00
RC	eP	13 52 25
SJ	eP	13 48 42
TUC	eP	13 52 53
	e	53 32
TUC-T	eP	13 52 53
	e	53 05
	e	54 23
WASH	iP	13 50 31
	eL	14 09 10
June 7		
EUR	e(P)	14 30 48
HH	iP	14 30 11
June 7		
COL	eP	16 23 58
June 7		
COL	eP	17 49 00
EUR	iP	17 48 28
	i	48 41
HH	e(P)	17 49 00
TUC	eP	17 48 26
	e	48 40
TUC-T	iP	17 48 26
	e	48 40
June 7		
EUR	eP	18 28 30
June 7		
HH	e(P)	19 56 13
June 7		
COL	eP	21 16 10
EUR	iP	21 19 29
June 7		
EUR	eP	22 20 05
June 8		
RC	eP	01 30 10
June 8		
COL	eP	04 48 21
June 8		
EUR	eP	06 52 27

Date and Station		Phase (GCT)
June 8		h m s
SJ	eP	07 10 25
	e(S)	11 33
June 8		
TUC-T	eP	08 15 04
June 8		
EUR	eP'	10 03 36
GUAM	eP	09 52 04
HH	e(P')	10 03 33
June 8		
EUR	eP	10 24 59
	i	25 04
	i	26 14
June 8		
EUR	iP	10 50 02
SJ	e(P)	10 44 21
	e	44 26
TUC	iP	10 49 06
TUC-T	iP	10 49 06
June 8		
COL	eP	11 18 28
June 8		
EUR	eP	11 54 09
TUC-T	eP	11 54 37
	e	55 42
June 8		
HH	iP	14 05 05
	iS	05 19
	iL	05 22
June 8		
BUT	eP	14 23 19
COL	iP	14 25 27
EUR	iP	14 22 48
	i	23 00
HH	eP	14 23 34
RC	eP	14 22 33
TUC	e(P)	14 22 05
June 8		
EUR	eP	20 12 03
June 8		
TUC-T	eP	22 17 46
June 8		
TUC	e(P)	22 41 53
TUC-T	eP	22 41 52
	eL	42 45

Date and Station		Phase (GCT)
June 8		h m s
EUR	e(P)	23 02 07
June 8		
EUR	eP	23 56 23
June 9		
HH	e(P)	03 10 16
June 9		
EUR	e(P)	06 20 28
June 9		
COL	iP	06 32 33
EUR	eP	06 33 42
GUAM	eP	06 24 28
SJ	eP'	06 39 38
June 9		
EUR	eP	07 19 04
June 9		
TUC-T	e(P)	08 37 13
June 9		
EUR	eP	09 52 38
	i	53 42
June 9		
TUC-T	eP	10 46 11
June 9		
COL	e(P)	11 33 19
HH	eP	11 34 11
June 9		
EUR	eP	11 53 11
June 9		
COL	eP	14 41 26
	i	41 35
June 9		
COL	iP'	15 12 15
EUR	iP	15 06 50
GUAM	iP	15 03 20
TUC-T	iP	15 06 46
June 9		
BH	iP	16 55 42
	iS	56 25
June 9		
COL	iP	16 55 21
EUR	iP	16 58 42
HH	eP	16 58 12
TUC-T	eP	16 59 28

Date and Station		Phase	(GCT) h m s
June 9			
COL		eP	17 37 34
EUR		iP	17 43 32
June 9			
EUR		e(P)	22 41 11
June 9			
COL		eP'	23 31 01
		e	31 15
EUR		eP	23 29 52
		ePP	32 31
HH		e(P')	23 30 01
SJ		eP	23 23 39
June 10			
EUR		eP	00 48 07
June 10			
COL		e(P)	02 23 07
June 10			
EUR		eP	04 24 30
		eL	24 53
June 10			
BOZ		eP	04 29 02
BUT		eP	04 29 03
COL		iP	04 28 12
		iPP	31 12
COLU		eP	04 28 22
EUR		iP	04 29 34
HH		iP	04 28 56
RC		iP	04 28 51
SJ		iP	04 28 13
SIT		iP	04 28 47
THULE		iP	04 25 44
TUC		iP	04 29 51
TUC-T		iP	04 29 50
WASH		iP	04 27 51
June 10			
COL		iP	04 37 00
		e	39 51
June 10			
EUR		eP	04 46 18
TUC		eP	04 46 35
TUC-T		eP	04 46 35
June 10			
TUC-T		eP	06 19 12
June 10			
COL		eP	06 54 17
HH		e(P)	06 55 07
June 10			
COL		iP	07 16 45
		iS	17 39
		iL	17 47
June 10			
EUR		eP	07 33 07
June 10			
TUC		eP	09 54 29
June 10			
COL		iP	10 01 48
EUR		eP'	10 08 19
GUAM		iP	09 55 02
June 10			
COL		iP	11 02 27
		e	04 04
		epP	04 36
EUR		iP	11 02 06
		ipP	04 19
HH		eP	11 02 34
TUC		iP	11 02 07
TUC-T		iP	11 02 07
June 10			
EUR		eP	11 32 36
		i	34 34
TUC		e(P)	11 31 54
		e	32 11
		eL	33 01
TUC-T		eP	11 31 54
		e	32 11
		eL	33 10
June 10			
COL		iP	12 06 37
EUR		eP	12 10 07
HH		iP	12 09 36
		e	12 09
June 10			
COL		e(P)	14 06 54
June 10			
HH		e(P)	15 51 36
June 10			
EUR		eP	17 23 12
TUC		eP	17 22 09
		eL	23 08
TUC-T		eP	17 22 01
		i	22 11
		eL	23 08
June 10			
EUR		eP	17 45 04
June 10			
EUR		eP	19 28 11
June 11			
COL		e(P)	00 09 50
EUR		iP	00 07 34
GUAM		iP	00 02 57
TUC		iP	00 07 33
		e	09 28
TUC-T		iP	00 07 34
		e	09 28
June 11			
EUR		eP	00 52 57
		i	53 17
June 11			
COL		iP	01 22 38
EUR		iP	01 22 07
HH		e(P)	01 22 40
TUC		iP	01 22 04
TUC-T		iP	01 22 04
UK		eP'	01 29 54
		e	30 14
June 11			
EUR		eP	01 30 31
		i	31 34
June 11			
EUR		eP	04 47 07
TUC		eP	04 46 49
TUC-T		iP	04 46 48
June 11			
COL		iP	08 35 14
June 11			
COL		iP	08 43 56
EUR		e	08 47 16
June 11			
EUR		eP	09 01 38
June 11			
EUR		eP	16 35 59
June 11			
EUR		eP	17 03 50
June 11			
HH		iP	21 22 12
		e	25 16
June 11			
EUR		e	21 46 26
June 11			
EUR		e	21 50 10
June 11			
GUAM		iP	22 17 45
		iS	17 52
June 11			
COL		e(P)	22 37 34
		e(S)	39 19
		iL	39 53
EUR		iP	22 40 57
HH		e(P)	22 39 44
		eL	44 47
SIT		eP	22 36 19
		i	36 21
		eL	36 47
TUC-T		eP	22 42 11
June 11			
EUR		e	23 36 50
June 11			
EUR		eP	23 44 29
		i	45 03
HH		eP	23 44 58
		e	45 31
TUC		eP	23 44 12
TUC-T		iP	23 44 11
June 12			
COL		iP	00 50 07
EUR		iP	00 53 27
		iPPP	55 34
HH		iP	00 52 58
		i	55 23
RC		eP	00 54 08
SIT		eP	00 50 48
THULE		eP	00 54 01
TUC		iP	00 54 28
TUC-T		iP	00 54 28
June 12			
TUC-T		eP	06 15 38
June 12			
UK		e(P)	06 39 17
		eL	39 44

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Date and Station		Phase (GCT) h m s
June 12		
EUR	e(P)	07 32 39
June 12		
EUR	iP	11 04 45
	i	05 05
TUC-T	e(P)	11 04 30
	i	04 56
	eL	06 11
June 12		
EUR	iP	11 19 46
	i	20 05
June 12		
COL	e(P)	11 57 48
EUR	eP	11 57 29
TUC-T	eP	11 57 39
June 12		
SIT	e(P)	13 05 28
June 12		
COL	iP	13 13 31
	iS	14 01
	iL	14 07
June 12		
COL	eP	13 19 22
	i	20 02
TUC-T	iP	13 11 14
June 12		
COL	eP	13 24 21
HH	e(P)	13 23 02
June 12		
EUR	iP	13 23 00
	i	23 14
	i	23 44
HH	e(P)	13 27 03
TUC	eP	13 24 37
TUC-T	eP	13 24 36
June 12		
EUR	iP	15 47 29
June 12		
EUR	e	19 13 31
June 12		
EUR	eP	21 23 22
TUC-T	e(P)	21 22 13
	e	22 27
June 12		
EUR	eP	22 36 24
June 12		
EUR	eP	23 28 16
	e	29 00

Date and Station		Phase (GCT) h m s
EUR	e	23 30 46
June 13		
EUR	e(P)	00 27 03
	i	28 00
June 13		
EUR	eP	00 38 24
June 13		
EUR	iP	01 13 49
June 13		
GUAM	iP	03 49 51
	iS	50 04
June 13		
RC	eP	06 05 41
	e	05 50
June 13		
EUR	e	06 38 21
June 13		
EUR	eP	08 04 43
June 13		
EUR	eP	09 13 11
	e	13 31
June 13		
EUR	e(P)	09 15 00
June 13		
COL	eP	10 42 27
June 13		
COL	iP	12 14 06
COLU	eP	12 14 42
EUR	eP	12 15 41
RC	eP	12 15 01
June 13		
COL	e(P)	13 11 47
EUR	iP	13 11 17
TUC	eP	13 11 13
June 13		
EUR	e	13 38 42
June 13		
EUR	eP	14 04 51
June 13		
EUR	eP	14 17 20
June 13		
COL	iP	16 14 38
EUR	e	16 17 33
June 13		
EUR	iP	16 30 53

Date and Station		Phase (GCT) h m s
TUC-T	iP	16 30 53
June 13		
EUR	e	17 36 31
June 13		
EUR	e	17 51 27
June 13		
EUR	eP	19 21 14
June 13		
EUR	iP	19 55 42
June 13		
EUR	eP	20 03 29
TUC-T	eP	20 02 29
June 13		
EUR	e	20 14 54
June 13		
EUR	eP	21 29 34
June 13		
EUR	eP	21 34 22
June 13		
COL	eP	22 07 42
EUR	eP	22 09 08
June 13		
COL	iP	22 30 00
EUR	eP	22 27 28
TUC-T	eP	22 26 35
June 14		
BH	i	00 22 47
BC	eP	00 23 12D
BOZ	iP	00 23 41D
	epP	24 02
	eS	33 13
	eSSS	41 47
	eL	43 49
	eP'P'	50 07
BUT	iP	00 23 47D
	ipP	24 31
	eS	33 27
	esSS	39 15
	eSSS	42 51
	eL	44 15
COL	eP	00 25 52C
	epP	26 25
	e	29 45
	iPP	30 17
	i	33 11
	eSKS	36 23
	iSKKS	37 07
	ipS	38 17
	i	41 25
	ePKKP	42 11

Date and Station		Phase (GCT) h m s
COL	i	00 43 23
	i	43 59
	eSS	44 43
	iSSS	48 40
	eP'P'	50 23
	eL	55 32
COLU	iP	00 21 27D
	e	27 26
	eS	28 58
	eSS	33 14
	eL	35 00
EUR	eP	00 23 31D
	epP	24 06
	iS	32 55
	eP'P'	50 54
GUAM	eP'	00 31 25(D)
	iP'	31 35D
	ipP'	32 08
	iPP	35 07
	ipPP	35 30
	i	37 10
	eSKS	38 36
HH	iP	00 24 00C
	i	26 59
	iS	33 56
	ePKKP	42 52
	eP'P'	50 55
	e	01 10 54
RC	iP	00 23 14D
	ipP	23 48
	ePP	25 50
	epPP	26 30
	eS	32 23
	e	35 13
	eL	40 51
	eP'P'	51 05
SLC	iP	00 23 22D
	epP	23 50
	e	24 39
	eS	32 40
	esS	33 23
	eSS	37 36
	eL	42 03
SJ	iP	00 19 16C
	i	19 20D
	iPP	21 18
	iS	25 06
	i	25 27
	eL	28 06
SIT	iP	00 25 16
	epP	25 46
	iPP	29 08
	ipPP	29 32
	esPS	38 30
TUC	iP	00 22 40D
	ipP	23 10
	ePP	25 39
	e(S)	31 09
	iS	31 22

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

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Date and Station		Phase (GCT) h m s
TUC-T	e	23 44 01
EUR	eP	23 51 25
June 15		
EUR	eP	00 00 33
June 15		
BUT	iP	02 52 07
	e	52 38
COL	iP	02 49 47
EUR	eP	02 52 17
GUAM	iP	02 44 05
	i	44 31
	iS	47 12
	i	48 18
HH	iP	02 51 56
	i	52 26
SIT	eP	02 50 37
	e	51 08
June 15		
EUR	eP	03 57 38
SJ	eP	03 51 35
	e	51 48
June 15		
EUR	iP	06 29 08
June 15		
COL	eP	06 48 37
EUR	eP	06 52 05
HH	e(P)	06 51 36
TUC	eP	06 53 06
	e	53 18
TUC-T	eP	06 53 07
	i	53 17
June 15		
COL	eP	07 39 21
	eL	44 49
EUR	eP	07 42 51
HH	eP	07 42 20
RC	eP	07 47 44
TUC	eP	07 43 56
TUC-T	eP	07 43 57
June 15		
COL	eP	08 50 45
EUR	iP	08 54 13
HH	iP	08 53 43

Date and Station		Phase (GCT) h m s
RC	eP	08 54 51
	e	55 07
TUC	eP	08 55 15
	e	55 32
TUC-T	eP	08 55 14
June 15		
EUR	e	10 57 48
June 15		
EUR	e	11 03 52
June 15		
EUR	e	11 09 13
June 15		
COL	iP	12 35 10
June 15		
HH	e(P)	12 50 44
June 15		
COL	e(P)	14 39 00
EUR	iP	14 46 58
June 15		
TUC	eP	14 57 43
	eL	58 49
TUC-T	e(P)	14 57 28
	e	57 45
	eL	58 40
June 15		
HH	e(P)	15 39 22
June 15		
COL	eP	19 18 54
EUR	eP	19 18 44
TUC	eP	19 18 56
TUC-T	eP	19 18 45
June 15		
EUR	e(P)	19 46 33
June 15		
EUR	eP	20 10 53
June 15		
EUR	e(P)	20 15 35
June 15		
EUR	eP	20 19 16
June 15		
EUR	eP	22 25 28
June 15		
EUR	eP	22 31 11
June 16		
EUR	eP	00 45 24

Date and Station		Phase (GCT) h m s
HH	iP	00 44 42
RC	eP	00 44 39
TUC-T	eP	00 45 43
June 16		
COL	iP	02 53 14
June 16		
EUR	eP	03 18 59
June 16		
COL	eP	03 40 02
EUR	eP	03 41 29
HH	iP	03 40 49
June 16		
COL	eP	04 41 53
EUR	eP	04 43 59
TUC	e(P)	04 43 17
	i	43 25
	eL	44 27
TUC-T	e(P)	04 43 11
	e	43 19
	e	43 26
	eL	44 20
June 16		
EUR	eP	05 54 19
June 16		
COL	eP	06 53 11
EUR	eP	06 56 50
June 16		
BC	eP	08 08 01
BOZ	eP	08 08 48
BUT	iP	08 08 55
	epP	09 10
COL	iP	08 12 21
	ipP	12 37
	iPcP	13 01
	i	13 17
COLU	eP	08 07 02
	eS	11 09
EUR	iP	08 08 26
	ipP	08 43
	iPcP	11 16
HH	iP	08 09 16
	epP	09 35
	iPcP	11 33
RC	iP	08 08 14
SLC	eP	08 08 16

Date and Station		Phase (GCT) h m s
SJ	e(P)	08 07 41
	e	07 55
	ePcP	11 19
SIT	eP	08 11 18
TUC	iP	08 07 15
	epP	07 29
	eS	11 40
	eL	14 31
TUC-T	iP	08 07 15
	epP	07 28
	e(S)	11 37
	eL	14 34
WASH	eP	08 08 27
June 16		
EUR	iP	08 51 08
	i	51 14
June 16		
BUT	eP	12 52 25
COL	eP	12 55 58
EUR	iP	12 51 49
HH	iP	12 52 48
	i	53 03
RC	eP	12 51 54
TUC	eP	12 50 27
	eL	55 54
TUC-T	eP	12 50 26
	iP	50 27
	iL	55 57
June 16		
COL	eP	13 07 55
	e	10 53
June 16		
COL	eP	14 16 59
June 16		
COL	eP	14 48 23
HH	iP	14 51 20
RC	eP	14 52 28
TUC-T	eP	14 52 56
	e	53 04
June 16		
HH	iP	17 06 46
RC	eP	17 06 09
June 16		
EUR	e(P)	23 15 20
June 17		
BC	eP	00 30 47

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

Date and Station		Phase (GCT)
		h m s
TUC	eP	18 02 38
June 18		
EUR	eP	18 41 37
June 18		
EUR	eP	20 13 33
June 18		
EUR	eP	20 17 03
TUC-T	eP	20 16 17
June 18		
COL	eP	20 28 48
EUR	eP	20 32 39
June 18		
EUR	eP	21 14 25
June 18		
EUR	eP	22 09 10
June 19		
EUR	eP	01 04 52
June 19		
BH	iP	01 38 58
	iS	39 49
June 19		
BOZ	eP	01 46 25
BUT	eP	01 46 31
COL	eP	01 49 31
	eS	59 15
	e	02 02 25
	e	04 20
	eL	08 04
EUR	eP	01 46 10
	i	46 41
HH	iP	01 46 50
SLC	eP	01 46 00
SJ	iP	01 42 31
TUC	iP	01 45 07
	iPPP	46 41
	eS	51 04
	eL	55 43
TUC-T	iP	01 45 07
June 19		
COL	e(P)	03 24 10
June 19		
EUR	eP	05 11 21
June 19		
EUR	eP	05 43 32
June 19		
COL	iP	06 07 27

Date and Station		Phase (GCT)
		h m s
EUR	iP	06 07 18
HH	eP	06 07 45
TUC	eP	06 07 22
TUC-T	iP	06 07 22
June 19		
EUR	eP	11 47 05
June 19		
TUC-T	e(P)	12 18 09
June 19		
COL	eP	13 59 22
	i	59 36
EUR	eP	14 02 44
	i	03 06
HH	iP	14 02 15
SIT	e(P)	14 00 12
TUC-T	eP	14 03 43
June 19		
COL	eP	15 00 40
June 19		
COL	eP	15 18 34
June 19		
COL	eP	16 16 39
EUR	eP	16 19 36
June 19		
COL	e(P)	16 59 02
EUR	eP	17 02 27
June 19		
TUC	eP	17 28 40
June 19		
COL	iP	17 34 38
EUR	eP	17 38 01
June 19		
EUR	e(P)	20 35 22
	iP	35 39
TUC	eP	20 33 46
	i	34 13
	iL	35 14
TUC-T	eP	20 33 47
	iL	35 20
June 19		
BOZ	eP	20 39 00
BUT	eP	20 39 06

Date and Station		Phase (GCT)
		h m s
COL	eP	20 42 48
	i	44 35
	eL	58 20
EUR	eP	20 37 45
	i	41 29
HH	iP	20 39 25
	e	43 25
	eL	46 01
RC	iP	20 38 51
	eL	45 44
SLC	eP	20 37 56
	eL	42 52
TUC	iP	20 35 54
	iS	37 16
	eL	37 23
TUC-T	e(P)	20 35 55
	eL	37 29
June 19		
EUR	eP	23 26 13
June 20		
COL	eP	00 17 44
June 20		
EUR	eP	00 49 08
June 20		
EUR	eP	01 09 32
TUC-T	eP	01 09 36
June 20		
EUR	eP	02 08 14
June 20		
TUC	eP	03 27 58
TUC-T	eP	03 27 59
June 20		
EUR	eP	03 38 51
UK	iP	03 37 29
	iS	37 33
	iL	37 34
June 20		
COL	iP	04 05 39
	iS	06 01
	iL	06 19
EUR	eP	04 11 00
	i	12 05
	eS	12 15
	eL	12 21
TUC-T	e(P)	04 11 11
	e	11 33
	eL	14 38

Date and Station		Phase (GCT)
June 20		h m s
COL	eP	06 57 10
June 20		
SIT	eP	07 16 03
June 20		
COL	eP	08 15 18
EUR	eP	08 18 52
	i	19 10
	i	21 05
TUC	eP	08 19 55
TUC-T	eP	08 19 55
	e	20 20
	i	21 32
June 20		
BUT	eP	09 29 09
June 20		
GUAM	iP	09 22 04
	iS	22 16
June 20		
COL	iP	10 16 02
	e	18 16
EUR	eP	10 15 40
TUC-T	e(P)	10 15 42
June 20		
TUC	eP	11 45 05
TUC-T	eP	11 45 05
June 20		
COL	iP	14 28 12
EUR	eP	14 21 00
TUC	eP	14 19 25
TUC-T	eP	14 19 26
	i	19 36
June 20		
COL	eP	14 47 41
	i	47 46
June 20		
BOZ	eP	16 52 05
BUT	eP	16 52 07
COL	eP	16 53 29
EUR	iP	16 52 37
RC	eP	16 51 21
SLC	eP	16 52 13
SJ	eP	16 48 10
TUC	eP	16 52 27

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

Date and Station		Phase (GCT) h m s
COL	e	14 47 16
	eL	48 07
COLU	eP	14 41 22
	eL	51 08
EUR	iP	14 35 39
HH	iP	14 37 30
	iL	39 58
RC	eP	14 38 08
	i	38 15
	eL	41 47
SLC	eP	14 36 38
SJ	eP	14 44 10
SIT	iP	14 39 48
	eL	48 54
TUC	iP	14 37 20
	eL	40 07
TUC-T	iP	14 37 20
UK	iP	14 35 55
	i	36 01
	i	36 11
	iL	36 44
WASH	eP	14 41 39
	e(S)	47 01
	eL	51 47
June 23		
EUR	eP	14 53 18
June 23		
EUR	eP	15 04 23
UK	e(P)	15 04 50
June 23		
BOZ	eP	15 06 49
BUT	eP	15 06 43
	eL	08 55
COL	eP	15 10 53
	eL	21 52
HH	eP	15 07 07
	eL	09 30
RC	eP	15 07 43
	eL	11 20
SLC	eP	15 06 01
SIT	eP	15 09 20
TUC	eP	15 06 53
	i	07 37
	eL	09 24
TUC-T	eP	15 06 52
	i	07 33

Date and Station		Phase (GCT) h m s
UK	eP	15 05 29
	i	05 40
June 23		
EUR	iP	15 23 25
UK	eP	15 23 53
	e	24 33
June 23		
COL	eP	17 28 28
TUC-T	eP	17 24 09
June 23		
EUR	eP	18 22 14
June 23		
EUR	iP	21 52 29
SJ	e(P)	21 48 22
TUC	iP	21 51 42
TUC-T	iP	21 51 41
June 24		
RC	e(P)	00 54 46
	e	55 13
June 24		
EUR	eP	01 33 29
	i	33 33
	eS	33 47
	eL	33 51
June 24		
TUC	e(P)	02 42 40
TUC-T	eP	02 42 54
June 24		
COL	eP	04 30 15
EUR	eP	04 34 02
RC	e(P)	04 34 25
June 24		
COL	iP	04 32 57
	i	33 07
EUR	iP	04 36 38
	i	36 53
RC	iP	04 37 03
TUC	iP	04 37 31
TUC-T	iP	04 37 31
June 24		
EUR	eP	05 26 34
June 24		
COL	eP	07 24 41
EUR	eP	07 27 38

Date and Station		Phase (GCT) h m s
TUC-T	eP	07 28 18
June 24		
COL	e(P)	08 29 10
	e	29 48
June 24		
COL	e(P)	08 52 51
EUR	eP	08 56 11
TUC	eP	08 57 11
TUC-T	eP	08 57 11
June 24		
TUC-T	eP	11 05 13
June 24		
EUR	eP	12 08 19
	i	08 23
	eS	08 47
	eL	08 51
June 24		
COL	iP	15 46 51
June 24		
TUC	eP	17 02 32
	i	02 40
	eL	03 35
TUC-T	e(P)	17 02 26
	e	02 33
	e	02 40
	eL	03 33
June 24		
COL	i(P)	19 40 07
June 24		
EUR	eP	20 21 36
June 24		
COLU	eP	22 24 13
June 25		
COL	i(P)	00 58 47
COLU	eP	00 53 09
EUR	iP	00 54 29
	i	54 50
TUC	iP	00 53 17
	e	53 38
	i	53 49
TUC-T	iP	00 53 17
	i	53 38
June 25		
COL	iP	03 07 45
EUR	eP	03 06 54
TUC	eP	03 07 13

Date and Station		Phase (GCT) h m s
TUC-T	eP	03 07 11
	i	07 16
June 25		
COL	eP	03 24 12
June 25		
EUR	iP	06 03 23
TUC	eP	06 02 36
TUC-T	eP	06 02 36
June 25		
COL	iP	06 53 16
EUR	eP	06 54 12
TUC	e(P)	06 54 53
TUC-T	eP	06 54 53
June 25		
BOZ	eP	06 55 39
BUT	eP	06 55 43
	ePP	57 36
	eS	07 02 54
	eSS	06 18
	eSSS	08 02
	eL	11 04
COL	iP	06 55 20
COLU	eP	06 55 02
EUR	iP	06 56 32
	ePP	58 35
HH	eP	06 55 34
	ePP	57 09
	eS	07 02 35
	eL	10 09
RC	eP	06 55 20
THULE	eP	06 51 31
TUC	eP	06 56 56
	i	57 01
	eL	07 15 19
	eP'P'	26 33
TUC-T	iP	06 56 56
	eL	07 16 35
	eP'P'	26 32
WASH	eP	06 54 11
	ePP	55 38
	eS	07 00 07
	eL	04 45
June 25		
COL	iP	07 24 56
EUR	eP	07 26 08
June 25		
COL	eP	09 54 54

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Date and Station		Phase	h m s
EUR		eP	09 58 17
RC		eP	09 59 07
TUC		eP	09 59 23
TUC-T		eP	09 59 24
June 25			
EUR		eP	12 53 24
		i	53 28
		iS	53 52
		eL	53 56
June 25			
COL		eP	13 47 16
EUR		eP	13 49 58
GUAM		eP	13 41 55
June 25			
COL		iP	14 47 10
EUR		eP	14 48 11
GUAM		iP	14 49 21
		i(S)	42 54
June 25			
EUR		eP	15 11 05
RC		e(P)	15 11 32
June 25			
TUC-T		eP	18 49 43
June 25			
EUR		eP	20 17 33
June 25			
TUC		eP	20 51 39
		eL	52 42
TUC-T		e(P)	20 51 26
		eL	52 39
June 25			
EUR		eP	21 20 59
June 26			
EUR		eP	00 08 03
June 26			
COL		iP	00 10 43
EUR		iP	00 14 16
		i	15 14
RC		eP	00 14 50
SJ		eP	00 18 54
TUC		iP	00 15 15
TUC-T		iP	00 15 15
June 26			
TUC		eP	02 57 27
TUC-T		eP	02 57 28
June 26			
COL		e(P)	03 58 57
EUR		iP	03 55 30
June 26			
COL		eP	04 07 24
COLU		eP	04 04 03
EUR		iP	04 03 57
HH		eP	04 05 02
		e(ScS)	15 20
		eL	18 25
RC		eP	04 04 08
TUC		eP	04 03 05
		e	03 39
		eL	13 25
TUC-T		eP	04 03 05
June 26			
COL		iP	05 11 28
		i	12 25
EUR		iP	05 14 49
		i	15 19
RC		iP	05 15 08
SIT		iP	05 12 32
THULE		i(P)	05 13 16
TUC		iP	05 15 34
TUC-T		iP	05 15 34
June 26			
EUR		iP	05 37 14
TUC		eP	05 37 11
		e	37 20
TUC-T		eP	05 37 10
June 26			
EUR		eP	07 31 56
June 26			
COL		iP	08 44 50
EUR		iP	08 47 28
		ipP	48 59
GUAM		iP	08 39 36
		iS	42 41
June 26			
COL		eP	08 58 58
June 26			
EUR		eP	11 50 57
June 26			
COL		iP	13 55 42
June 26			
BUT		eP	14 04 09
EUR		iP	14 03 51
		i	04 15
RC		eP	14 03 39
		i	03 53
TUC		iP	14 03 16
TUC-T		iP	14 03 15
June 26			
COL		iP	14 46 14
June 26			
SJ		eP	20 51 03
June 26			
TUC-T		eP	22 08 09
		e	08 21
June 26			
COL		iP	22 36 56
		e	38 16
EUR		iP	22 36 33
TUC		iP	22 36 33
TUC-T		iP	22 36 34
June 27			
RC		eP	00 18 28
June 27			
RC		eP	01 04 25
June 27			
EUR		iP	02 08 30
June 27			
COL		eP	03 59 09
June 27			
EUR		eP	05 18 00
June 27			
EUR		eP	05 30 07
June 27			
COL		eP	09 52 28
		i	52 37
June 27			
EUR		eP	12 14 16
June 27			
EUR		eP	12 50 18
June 27			
EUR		iP	16 23 35
		i	23 53
		eS	24 40
		eL	24 55
TUC		eP	16 23 51
		e	23 59
		eL	24 58
June 27			
COL		iP	16 59 22
June 27			
BH		iS	19 28 50
BOZ		eP	19 18 11C
		ePPP	24 38
BUT		e(P)	19 18 46
		ePP	22 02
COL		eP	19 18 11C
		iSKS	28 30
		e	29 06
		eS	29 33
		e	31 05
		e	32 33
		e(PKKP)	33 53
		e(SS)	37 32
		eP'P'	42 21
		eL	48 48
EUR		iP	19 17 40D
		i	18 32
		e	33 17
		e	34 05
		iPKKP	34 46
		iSS	35 22
		e	41 38
		iP'P'	42 37
GUAM		iP	19 14 11C
		ipP	14 50
		isP	15 07
		iScP	18 38
		eS	21 51
		i	23 02
		iScS	23 23
		i(SS)	26 20
HONO		iP	19 14 14
		ipP	14 53
		i	15 15
		i(PPP)	17 38
		eScP	18 58
		e	21 06
		i(S)	22 26
		i	25 04
		eL	27 48
		eP'P'	43 59
HH		eP	19 18 10
		epP	18 43
		e	21 01
		ePP	22 16
		esPP	22 54
		eSKS	28 37
		ePS	31 02
		ePPS	31 58
		eL	50 21
KIP		iP	19 14 19
		i	15 17
		eP'P'	43 57

Date and Station		Phase (GCT) h m s
RC	eP	19 18 28C
	ePP	22 44
	i	24 48
	e	34 14
	eP'P'	42 38
SLC	eP	19 17 55C
SJ	eP'	19 23 12D
TUC	iP	19 17 35D
	ipP	18 14
	eSKS	27 53
	iS	28 33
	i	29 43
	iPKKP	34 47
	eP'P'	43 01
	eL	45 03
TUC-T	iP	19 17 35D
	ipP	18 15
	iS	28 34
	iPKKP	34 47
	i	35 26
	eP'P'	42 53
	iP'P'	42 58
UK	iP	19 17 20C
	e	18 22
WASH	eP'	19 23 11D
	i	24 10
	iPP	24 35
	ipPP	25 09
	e	30 18
	ePKKP	33 09
June 27		
COL	iP	19 22 21
	eP'P'	50 43
HH	eP	19 24 22
SIT	iP	19 23 22
THULE	iP	19 21 34
	iPcP	22 22
June 27		
EUR	eP	19 51 40
June 27		
COL	e(P)	21 40 39
	e	41 39
	e	43 06
	eL	43 58
EUR	eP	21 41 10
	i	41 16
SIT	iP	21 39 50
	i(S)	40 07
	iL	40 08
June 28		
COL	eP	00 03 07
June 28		
COL	eP	01 06 08
	iL	09 06
HH	eP	01 10 38
June 28		
EUR	eP	01 08 19
June 28		
COL	eP	01 51 48
EUR	eP	01 50 12
June 28		
COL	eP	02 31 19
EUR	iP	02 33 57
GUAM	eP	02 25 39
June 28		
COL	iP	04 31 55
EUR	eP	04 33 26
RC	eP	04 32 22
TUC-T	eP	04 33 56
June 28		
EUR	eP	05 16 15
June 28		
COL	iP	06 14 10
EUR	eP	06 15 36
RC	eP	06 14 51
June 28		
COL	iP	06 36 16
EUR	iP	06 35 57
TUC-T	eP	06 35 59
June 28		
EUR	eP	07 59 22
UK	iP	07 58 14
	iS	58 27
	iL	58 28
June 28		
BH	eP	08 12 33
	eS	16 44
BOZ	eP	08 15 44
COL	e(P)	08 19 04
EUR	iP	08 15 41
RC	eP	08 14 59
	e	16 14
TUC	eP	08 14 49
	e	15 38
TUC-T	eP	08 14 51
WASH	e(P)	08 13 26
	eL	20 05
June 28		
EUR	eP	09 04 24
RC	eP	09 04 49
June 28		
GUAM	iP	10 51 18
	iS	51 25
June 28		
COL	e(P)	18 01 02
EUR	e(P)	18 04 17
	iP	04 30
June 28		
BOZ	eP	18 29 59
	e	30 13
BUT	eP	18 29 58
	e	30 16
COL	iP	18 33 48
	eL	49 40
EUR	eP	18 28 38
HH	e(P)	18 30 28
	eL	36 46
RC	iP	18 29 53
SLC	eP	18 28 52
	eL	32 33
TUC	iP	18 26 52
	i	27 04
	i	27 14
	eS	27 59
	eL	28 14
TUC-T	iP	18 26 53
	eL	28 19
WASH	eP	18 32 11
	eL	42 09
June 28		
BH	iP	20 03 22
BOZ	eP'	20 02 21
	e	02 44
BUT	iP'	20 02 18
	ePP	04 11
	ePS	12 25
COL	iP	19 57 01
	i	57 26
	eP'	20 00 27
	ePP	01 07
	eSKS	07 26
	eS	08 18
COL	ePS	20 09 54
	ePKKP	13 27
	i	14 02
	eSS	15 09
	eP'P'	21 41
	eL	26 20
EUR	eP	19 58 46
	iP'	20 02 17
	i	02 41
	iPP	03 46
	iPKKP	12 27
	i	12 54
	i	16 02
GUAM	iP	19 49 47
	i	50 08
	i	51 31
	iPcP	52 43
	iS	54 46
	iScP	56 18
	iScS	20 00 14
MONO	eP	19 55 55
	e	56 56
NH	eP'	20 02 15
	ePP	03 32
	eSKKS	10 30
	e	13 06
	e(PS)	14 27
	eL	38 45
KIP	eP	19 55 56
RC	iP'	20 02 32
SLC	eP	20 02 23
	ePP	04 02
SJ	iP'	20 03 32
	i	04 39
	ePP	08 36
SIT	eP'	20 02 24
THULE	e(P')	20 02 22
TUC	eP'	20 02 29
	iP'	02 31
	ePKKP	11 16
	eL	41 13
TUC-T	eP'	20 02 17
	iP'	02 29
	iPKS	05 41
WASH	iP'	20 03 04
	i	03 28
	iPP	06 43
	iPKS	07 16
	e	16 33
June 28		
TUC	eP	20 58 08

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Date and Station		Phase (GCT)
June 28		h m s
SJ	iP	21 42 11
	i(S)	42 21
	iL	42 22
June 28		
SJ	eP	23 45 34
June 29		
EUR	eP	05 21 11
	i	21 15
	iS	21 39
	iL	21 43
TUC	e(P)	05 25 37
TUC-T	eP	05 25 39
June 29		
COL	iP	07 28 34
	iS	38 53
	ePPS	40 03
	e	42 06
	eSS	44 32
	eL	49 15
EUR	eP	07 29 27
GUAM	eP	07 21 09
	iS	25 07
	eL	26 09
HONO	eP	07 25 32
	eS	33 16
	eSS	37 40
	eL	39 18
RC	eP	07 29 15
June 29		
COL	iP	07 43 16
June 29		
COL	iP	08 54 37
June 29		
TUC	e(P)	09 15 07
June 29		
BUT	e(P)	09 29 16
COL	eP	09 25 52
EUR	eP	09 29 18
RC	eP	09 29 59
TUC	eP	09 30 20
TUC-T	eP	09 30 22
	e	30 37
June 29		
COL	iP	10 04 48
	i	05 06
June 29		
EUR	eP	11 32 18

Date and Station		Phase (GCT)
June 29		h m s
COL	iP	13 32 00
EUR	eP	13 33 53
	iPKKP	49 33
GUAM	eP	13 24 06
	iS	27 44
HONO	iP	13 31 16
SJ	eP'	13 39 26
	i	39 34
	i	39 45
TUC	eP'	13 38 17
	ePP	39 08
TUC-T	eP'	13 38 16
	ePP	39 07
	ePKKP	49 04
WASH	iP'	13 38 47
June 29		
BH	eP	15 57 15
	eS	57 45
June 29		
COL	iP	21 30 38
June 29		
EUR	eP	21 47 49
June 29		
COL	e(P)	22 11 40
EUR	iP	22 14 18
June 29		
EUR	e(P)	23 48 51
June 30		
BOZ	eP	00 10 51
June 30		
COL	eP	02 16 28
EUR	iP	02 18 39
GUAM	iP	02 08 14
	iS	09 42
June 30		
BOZ	eP	02 39 18
	e	41 14
SLC	eP	02 39 29
	e	41 21
June 30		
EUR	eP	04 17 13
	e	17 31
June 30		
EUR	iP	04 34 07
TUC-T	e(P)	04 33 24
	e	33 30

Date and Station		Phase (GCT)
June 30		h m s
COL	iP	07 37 32
June 30		
COL	eP	10 37 13
EUR	iP	10 36 35
	ePP	40 19
GUAM	eP	10 33 20
TUC	eP	10 36 28
TUC-T	eP	10 36 29
	e	36 42
June 30		
EUR	e(P)	11 40 23
June 30		
COL	eP	13 32 50
	i	33 01
EUR	eP	13 35 34
RC	e(P)	13 35 54
	e	36 04
June 30		
COL	i(P)	19 27 14
EUR	eP	19 26 54
June 30		
EUR	e(P)	21 27 48
June 30		
EUR	eP	21 49 24
June 30		
RC	eP	22 05 17
June 30		
BH	iP	22 43 57
	iS	45 35
COL	eP	22 53 51
EUR	iP	22 51 00
SJ	eP	22 44 39
	iP	44 40
	i	44 48
	eS	46 47
TUC	eP	22 50 07
TUC-T	eP	22 50 07
June 30		
GUAM	iP	23 17 14
	iS	17 32
June 30		
SJ	eP	23 56 25
	e	57 14

Date and Station	Phase (GCT)
	h m s

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
June	
BUT	
5	23.4
8	14.1
	21.4
9	01.6
June	
COL	
1	03.4
3	02.2
	17.1
4	19.6
5	03.7
	12.0
6	00.4
	01.9
	08.3
	17.6
7	20.4
8	02.5
9	17.4
	23.1
	23.3
10	01.2
	20.8
11	00.9
12	08.1
13	00.6
	06.6
14	10.9
	17.6
15	11.8
16	13.8
	20.7
17	09.5
18	09.3
	09.5
20	03.5
23	02.1
25	14.8
	15.4
26	01.5
	09.3
	14.1
27	02.2
	15.0
28	03.9
29	19.4
June	
EUR	
1	00.6
	02.8
	05.1
	08.4
	17.2
	22.3
2	00.7
	19.2
	21.8
	21.9
3	00.2
	01.3

Date and Station	Phase (GCT)
	h m s
EUR	
3	08.2
	22.9
	23.1
4	01.1
	03.3
	05.9
	07.5
	08.7
	14.7
	22.5
6	03.9
	13.8
	16.5
	19.6
7	04.3
	23.9
9	01.5
	11.1
	18.0
	23.5
10	08.4
	12.6
	12.8
11	18.5
13	01.6
	04.5
	14.8
14	21.9
15	06.1
	09.1
	22.3
	23.0
16	02.2
	09.8
17	15.9
18	07.6
20	20.9
23	02.9
26	02.1
28	14.9
June	
HONO	
3	14.5
15	21.1
	21.9
17	01.6
24	01.2
26	01.8
	22.3
June	
KIP	
3	14.5
15	21.1
	21.9
24	01.2
25	06.0
26	22.3
June	
RC	
26	12.6

Date and Station	Phase (GCT)
	h m s
June	
SJ	
4	15.4
6	19.3
	19.6
	23.0
7	17.1
13	07.5
15	09.1
	23.8
17	07.6
	23.8
19	02.9
20	20.3
21	06.5
22	07.4
30	08.3
June	
SIT	
6	01.9
10	15.1
11	22.0
17	15.0
27	11.2
June	
TUC	
1	09.7
	09.9
	12.0
3	03.6
	11.6
5	10.4
6	21.0
9	11.9
12	11.1
14	13.8
	14.9
	22.3
	22.4
	22.5
15	12.5
	12.6
	12.8
16	08.9
18	08.7
20	04.2
22	05.7
	13.0
	22.1
24	11.7
25	05.2
26	12.4
30	10.1
June	
UK	
3	04.4
17	21.5
26	14.3

Date and Station	Phase (GCT)
	h m s