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U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1957

The instrumental results of the following stations are tabulated in this report.

**Balboa Heights, C. Z. (BH)
The Panama Canal Co.
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
**Burlington, Vt. (BUR)
University of Vermont
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
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 (SJ)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Ukiah, Calif. (UK)
International Latitude Observatory
Washington, D. C. (WASH)

*Indicates a station maintained by a local institution in cooperation with the Coast and Geodetic Survey.
**Indicates a station operating on an independent basis.
Other stations are observatories of the Coast and Geodetic Survey.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights.
All magnitude determinations are by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the bulletin.

One asterisk (*) following an origin time indicates probable error of one-tenth minute. Two asterisks (**) following an origin time indicates error of one quarter minute. All origin times and locations are determined from P data only. For Pasadena epicenters the time is given in one-tenth minute.

All seismograms are on file in the Coast and Geodetic Survey, except those from Balboa Heights and Burlington, which may be obtained on loan by addressing the Seismograph Station Director: - Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone; University of Vermont, Burlington, Vermont.

Kipapa is located in Kipapa Gulch, Oahu, T. H., and was established in April, 1957 to serve as an outpost station for Honolulu.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	°	°	
1	12 49 55*	39 N.	75 E.	Western Sinkiang Province, China.
1	23 59 54*	18 N.	147½ E.	Mariana Islands.
2	00 27 26*	18 N.	147 E.	Mariana Islands. h about 100 km.
2	03 36 00**			India-Burma border region.
2	09 46 30*	15 S.	173½ W.	Samoa Islands. Felt at Apia. Mag. 6 - 6¼ (Berk).
2	14 20 13*	51½ N.	168 W.	Fox Islands, Aleutian Islands.
2	21 27 36*	37 N.	71 E.	Hindu Kush. Felt at Peshawar, Warsak and Muzaffarabad. h about 200 km.
3	06 06 42*	12 S.	167 E.	Santa Cruz Islands.
3	07 49 52*	53 N.	167 W.	Fox Islands, Aleutian Islands.
3	14 28 12**			Mariana Islands region.
3	14 40 24*	21½ S.	179½ E.	Fiji Islands region. h about 600 km.
4	01 31 23*	12 S.	167½ E.	Santa Cruz Islands.
4	04 25 05**			Fox Islands, Aleutian Islands.
4	04 33 51**			South Indian Ocean, about 1000 miles northeast of Kerguelen Islands.
4	08 07 15*	28 N.	65½ E.	Pakistan.
4	12 26 35*	4 S.	151½ E.	New Britain. Felt at Rabaul.
5	04 01 49*	55½ N.	159 W.	Alaska Peninsula.
5	07 25 19*	53½ N.	160½ E.	Near east coast of Kamchatka.
5	11 36 07**			Southern Iran. 1 killed, many injured in Jahrom. Moderate property damage in Jahrom and Kerman.
5	13 50 33**			Java. Felt in southern Priangan.
5	18 58 42*	20 S.	67 W.	Southern Bolivia. h about 150 km.
6	00 17 55*	20 S.	68 W.	Chile-Bolivia border. h about 100 km.
6	04 54 37*	51 N.	177 W.	Andreanof Islands, Aleutian Islands.
6	20 22 03*	41 N.	20 E.	Albania.
7	01 10 32*	8½ N.	72 W.	Western Venezuela. Felt at Cucuta, Colombia.
7	06 48 36*	50 N.	156 E.	Northern Kurile Islands.
7	10 06 47*	51½ N.	178½ W.	Andreanof Islands, Aleutian Islands.
8	08 41 26*	2 S.	141 E.	Off north coast of New Guinea.
8	10 19 48*	52 N.	171 W.	Fox Islands, Aleutian Islands.
8	13 18 55*	5 S.	152 E.	New Britain. Felt at Kokopo and Rabaul. h about 60 km.
9	00 13 30*	48 S.	100 E.	South Indian Ocean.
9	09 00 33*	15 S.	176½ W.	Fiji Islands region.
10	00 13 55**			Ascension Island region.
10	06 13 40*	27 N.	96½ E.	India-Burma border.
10	14 43 05*	1½ S.	80 W.	Near coast of Ecuador. h about 400 km.
10	15 27 40*	5 N.	125½ E.	Davao Gulf.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	°	°	
11	13 41 44*	19 S.	178 W.	Fiji Islands region. h about 500 km.
11	14 26 45**			New Ireland region.
11	23 22 09*	16 S.	172 W.	Samoa Islands region. Felt at Apia.
12	00 28 02*	17½ N.	85 W.	About 100 miles north of Honduras. Felt at Havana, Cuba.
12	01 21 06*	21 N.	145 E.	Mariana Islands.
12	04 01 24*	15½ N.	98½ W.	Off coast of Guerrero, Mexico. h about 60 km.
12	17 26 05*	40 N.	73½ E.	Kirghiz-Tadzhik S. S. R. border.
14	06 13 20*	4 S.	130 E.	Ceram Island.
14	13 56 25*	5½ S.	147 E.	Near north coast of New Guinea. Felt at Lae.
14	17 06 49*	1½ S.	80½ W.	Near coast of Ecuador.
14	21 26 18**			Samar Island, Philippine Islands. Felt at Catarman, Catbalogan and Masbate.
15	04 22 34*	5½ S.	108 E.	Near north coast of Java. Felt in southern Priangan. h about 300 km.
15	18 42 20*	6 S.	153½ E.	Solomon Islands. Felt at Karoola and Rabaul. h about 150 km.
15	22 07 21*	51 N.	174½ W.	Andreanof Islands, Aleutian Islands.
16	00 07 33*	35 N.	140 E.	Near south coast of Honshu, Japan.
16	01 34 36*	82 N.	120 E.	Arctic Ocean.
16	09 04 23*	54 N.	158½ E.	Kamchatka.
17	14 24 01*	36 S.	53½ E.	Indian Ocean.
17	18 44 02*	30½ N.	139 E.	Off south coast of Honshu, Japan.
18	00 59 20*	53 N.	160 E.	Near east coast of Kamchatka.
18	18 15 10*	52½ N.	168 W.	Fox Islands, Aleutian Islands.
19	13 42 06*	52 N.	168 W.	Fox Islands, Aleutian Islands.
19	17 00 00	37.2 N.	116.2 W.	Nevada (Nuclear Explosion).
19	17 02 02*	19 S.	176 W.	Tonga Islands. h about 200 km.
19	17 29 02*	79½ N.	3 E.	Spitsbergen region.
20	08 25 19*	46 N.	151½ E.	Kurile Islands.
20	10 01 58*	36½ N.	71 E.	Hindu Kush. Destructive in Kandahar, Afghanistan. h about 200 km.
20	23 07 22*	52 N.	170½ W.	Fox Islands, Aleutian Islands.
21	20 16 53*	40½ N.	34½ E.	Northern Turkey.
23	09 12 55*	52 N.	177½ E.	Rat Islands, Aleutian Islands.
23	09 22 36*	6 S.	131 E.	Banda Sea.
23	18 44 10*	16 S.	173 W.	Samoa Islands region.
24	08 21 05*	5½ N.	127½ E.	Near south coast of Mindanao, Philippine Islands. Felt on Mindanao and on Koror Island, West Caroline Islands. Mag. 7-3/4.
24	09 10 30*	6 N.	127 E.	Mindanao aftershock.
25	05 50 56*	34 N.	38½ W.	Near Azores Islands. Mag. 6¼ - 6½.

Date 1957	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sept.	h m s	°	°	
25	16 36 37**			Mindanao aftershock.
25	22 17 00*	6 N.	127½ E.	Mindanao aftershock.
25	23 33 30*	5½ N.	127½ E.	Mindanao aftershock.
26	02 32 01*	5 N.	127 E.	Mindanao aftershock.
26	08 03 50**			Near coast of Chiapas, Mexico.
26	10 07 42**			About 150 miles south of Mindanao, Philippine Islands.
26	12 03 01*	39½ S.	174½ E.	North Island, New Zealand. h about 150 km.
26	13 35 22*	15 N.	92½ W.	Guatemala-Mexico border. h about 150 km.
26	18 46 41*	6 N.	126½ E.	Mindanao aftershock.
27	04 08 23*	1 S.	127 E.	Spice Islands.
27	04 18 49*	1 S.	127½ E.	Spice Islands aftershock.
27	04 58 52*	64 N.	178 E.	Eastern Siberia.
27	05 48 15*	53 N.	168 W.	Fox Islands, Aleutian Islands.
27	05 56 50*	1 S.	127 E.	Spice Islands aftershock.
27	11 16 52*	52½ N.	169 W.	Fox Islands, Aleutian Islands.
27	11 45 24*	52½ N.	169½ W.	Fox Islands, Aleutian Islands.
27	14 21 43*	18 N.	121 E.	Luzon, Philippine Islands. Felt at Aparri, Laoag and Tuguegarao.
28	00 27 31*	30½ N.	137½ E.	Off south coast of Honshu, Japan. h about 500 km. Mag. 6-3/4.
28	04 11 43*	3 S.	135½ E.	Near north coast of New Guinea.
28	14 20 00*	20½ S.	178 W.	Fiji Islands. h about 650 km. Mag. 7½.
28	14 44 02*	20½ S.	178½ W.	Fiji Islands aftershock. h about 600 km.
28	21 03 18*	17½ N.	146 E.	Mariana Islands. h about 200 km.
28	21 04 37*	36½ N.	122 W.	California.
29	02 08 55*	64½ S.	172½ W.	South Pacific Ocean.
29	06 37 33*	0	124 E.	Celebes. h about 200 km.
29	07 06 11*	20 S.	178 W.	Fiji Islands. h about 650 km.
29	08 13 22*	25 S.	178½ E.	South of Fiji Islands. h about 600 km. Mag. 6¼ (Berk).
29	13 30 42*	53½ N.	160 E.	Near east coast of Kamchatka.
29	19 53 30*	13 S.	77 W.	Near coast of Peru.
30	11 02 36*	29½ N.	140 E.	South of Honshu, Japan.
30	12 06 43*	1½ S.	126½ E.	Spice Islands aftershock.
30	20 21 30*	24½ N.	143 E.	Volcano Islands.

Correction: May Bulletin 1957 - May 31, 06 16 27*, 27½ S., 63 W. Santiago del Estero Province, Argentina. Felt. h about 600 km. Mag. 6¼ - 6½. Origin time should read 02 16 27*.

Date and Station		Phase	(GCT)
Sept. 1			h m s
RC	iP		00 13 03
	e		16 37
Sept. 1			
COL	eP		00 38 55
Sept. 1			
BC	eP		05 05 14
COL	eP		05 09 59
EUR	iP		05 05 45
TUC	e(P)		05 04 16
	e		04 29
	eL		09 19
	iL		09 27
Sept. 1			
COL	eP		08 15 23
Sept. 1			
COL	eP		09 45 56
Sept. 1			
BUT	iP		10 19 41
	iS		20 00
	iL		20 02
BOZ	eP		10 19 28
	iS		19 39
	iL		19 42
EUR	eP		10 21 09
	eL		22 43
HH	e(P)		10 20 15
	e		20 28
	eS		21 02
	eL		21 17
RC	eP		10 22 04
Sept. 1			
HH	eP		11 26 21
Sept. 1			
COL	iP		13 01 15
EUR	eP		13 03 36
HH	eP		13 03 11
Sept. 1			
EUR	eP		20 41 45
HH	eP		20 41 19
RC	eP		20 42 12
Sept. 1			
BC	eP		23 08 14
COL	iP		23 04 24
	e		11 46
EUR	eP		23 07 44

Date and Station		Phase	(GCT)
			h m s
HH	eP		23 07 18
RC	eP		23 08 31
TUC	eP		23 08 52
Sept. 1			
EUR	eP		23 13 40
Sept. 2			
BC	iP		00 12 39
	e		13 05
	ePP		15 57
BOZ	iP		00 12 37
BUT	iP		00 12 29
	i		13 24
	e(S)		22 54
COL	iP		00 10 26
	i		10 48
	eS		18 56
	eL		26 35
EUR	iP		00 12 28
HONO	iP		00 09 03
HH	iP		00 12 21
KIP	iP		00 08 03
	i		08 19
SLC	iP		00 12 40
	i		13 11
TUC	iP		00 13 01
	ePP		16 32
	eL		45 50
Sept. 2			
COL	eP		00 37 50
EUR	eP		00 39 48
Sept. 2			
SJ	eP		00 52 09
Sept. 2			
COL	eP		03 45 38
Sept. 2			
EUR	eP		05 51 18
TUC	eP		05 51 21
Sept. 2			
EUR	eP		06 25 39
Sept. 2			
BC	iP		07 10 33
BUT	eP		07 09 16
EUR	iP		07 10 08
	i		11 15
HH	eP		07 08 59

Date and Station		Phase	(GCT)
			h m s
RC	eP		07 09 38
TUC	iP		07 10 55
Sept. 2			
RC	eP		07 55 15
Sept. 2			
EUR	eP		08 11 27
Sept. 2			
BC	iP		09 58 15
BOZ	iP		09 58 56
BUT	iP		09 58 51
	i		58 58
	eS		10 09 02
	eL		21 02
COL	iP		09 58 51
	e(PP)		10 02 49
	e(PPP)		04 50
	eS		08 52
	e		11 34
	i		12 13
	eL		20 51
EUR	iP		09 58 21
HH	eP		09 58 52
	e		59 46
KIP	eP		09 54 02
RC	iP		09 59 16
	e		10 00 15
SLC	eP		09 58 39
TUC	iP		09 58 20
	e(S)		10 08 39
	eL		20 56
UK	eP		09 57 52
Sept. 2			
COL	iP		10 05 11
	i		05 44
	i		08 16
EUR	eP		10 04 41
TUC	eP		10 04 41
Sept. 2			
HH	e(P)		11 46 39
Sept. 2			
TUC	eP		12 38 29
Sept. 2			
BC	iP		12 40 27
EUR	iP		12 40 42
	iPP		41 22
TUC	eP		12 41 45
	e		43 43

Date and Station		Phase	(GCT)
			h m s
SLC	eP		12 41 41
Sept. 2			
BC	eP		12 49 46
Sept. 2			
BC	iP		14 27 54
	eS		33 49
	eL		37 59
BOZ	iP		14 27 27
	e		28 15
BUT	iP		14 27 16
	i		27 29
	iS		33 00
	eL		37 14
COL	iP		14 24 06
	i		24 55
	i		26 19
	iS		26 57
	iL		27 21
COLU	iP		14 30 36
	eS		39 04
	e(ScS)		40 23
	eL		50 27
EUR	iP		14 27 30
HONO	eP		14 26 35
HH	iP		14 27 00
	eS		32 26
	eScS		37 50
KIP	iP		14 26 34
	iPP		27 54
RC	iP		14 28 12
SLC	iP		14 27 44
SJ	iP		14 32 38
SIT	iP		14 24 45
	iS		28 12
	iL		28 16
TUC	iP		14 28 34
	e		29 27
	eS		35 19
	eL		42 09
UK	eP		14 26 55
	eL		37 29
Sept. 2			
COL	eP		14 36 31
Sept. 2			
EUR	eP		15 22 23
Sept. 2			
EUR	iP		17 21 01
SJ	iP		17 12 37

Date and Station		Phase (GCT)
		h m s
Sept. 2		
EUR	eP	17 32 03
RC	e(P)	17 33 52
Sept. 2		
BOZ	eP	18 12 10
COL	eP	18 08 47
EUR	iP	18 12 12
HH	iP	18 11 42
RC	eP	18 12 55
TUC	eP	18 13 16
Sept. 2		
BC	eP	18 16 47
BUT	iP	18 16 35
COL	eP	18 14 26
EUR	iP	18 16 37
HH	iP	18 16 27
	e	16 52
RC	eP	18 17 09
SLC	eP	18 16 49
TUC	eP	18 17 10
Sept. 2		
BC	eP	18 31 54
BUT	iP	18 31 42
COL	eP	18 29 31
EUR	iP	18 31 44
HH	iP	18 31 33
	e	34 27
RC	eP	18 32 16
	e	35 12
TUC	eP	18 32 14
Sept. 2		
BUT	iP	18 34 34
	ipP	36 51
COL	eP	18 34 41
EUR	eP	18 34 37
	ipP	36 51
HH	e(P)	18 36 42
RC	eP	18 37 25
Sept. 2		
COL	e(P)	18 52 19
HH	eP	18 55 48

Date and Station		Phase (GCT)
		h m s
Sept. 2		
EUR	eP	19 03 05
HH	eP	19 02 54
	i	03 01
RC	eP	19 03 37
Sept. 2		
BC	eP	19 36 09
BUT	eP	19 35 58
COL	eP	19 33 46
EUR	eP	19 35 59
HH	iP	19 35 48
RC	eP	19 36 31
TUC	eP	19 36 31
Sept. 2		
BC	eP	20 31 53
	i	32 02
COL	iP	20 31 12
EUR	iP	20 30 51
HH	eP	20 32 04
RC	eP	20 32 37
Sept. 2		
EUR	eP	21 19 09
HH	eP	21 18 59
TUC	e(P)	21 15 52
	e	17 27
	i	17 54
Sept. 2		
BOZ	eP	21 40 54
BUT	iP	21 40 49
COL	iP	21 38 53
	ipP	39 44
EUR	eP	21 41 20
HH	eP	21 40 39
	e	42 22
RC	eP	21 40 59
	epP	41 53
	ePP	45 04
	e(pPP)	46 17
Sept. 2		
EUR	eP	23 31 08
HH	eP	23 30 38
RC	e(P)	23 31 51
TUC	eP	23 32 12

Date and Station		Phase (GCT)
		h m s
Sept. 2		
EUR	eP	23 51 29
RC	e(P)	23 52 01
Sept. 3		
EUR	iP	00 22 50
RC	eP	00 23 19
Sept. 3		
COL	eP	01 52 51
Sept. 3		
BC	e(P)	05 21 01
EUR	eP	05 20 58
	i	22 05
Sept. 3		
HH	eP	05 36 12
Sept. 3		
BC	eP	06 19 32
BOZ	eP	06 20 05
BUT	eP	06 19 58
COL	eP	06 19 12
EUR	eP	06 19 34
HH	iP	06 19 50
SLC	eP	06 19 50
TUC	iP	06 19 44
	i	19 49
Sept. 3		
EUR	eP	07 23 50
Sept. 3		
BC	eP	07 57 27
	e	57 45
BOZ	eP	07 57 00
COL	eP	07 53 39
EUR	iP	07 57 05
HH	iP	07 56 33
	i	56 44
RC	eP	07 56 47
TUC	eP	07 58 08
Sept. 3		
HH	eP	12 12 07
SJ	eP	12 07 29
Sept. 3		
HH	e(P)	13 14 20
	e	14 29

Date and Station		Phase (GCT)
		h m s
Sept. 3		
BH	iP	13 31 53
	iS	32 18
Sept. 3		
BOZ	eP	14 40 36
BUT	iP	14 40 35
COL	eP	14 38 18
EUR	iP	14 40 30
HH	iP	14 40 20
RC	iP	14 41 03
SLC	iP	14 40 42
TUC	eP	14 41 03
Sept. 3		
BC	eP	14 51 58
	epP	54 08
COL	iP	14 52 22
EUR	eP	14 52 03
	epP	54 12
RC	eP	14 52 35
TUC	iP	14 52 03
	epP	54 11
Sept. 3		
UK	eP	16 31 13
Sept. 3		
BC	eP	16 41 15
BOZ	eP	16 41 29
BUT	eP	16 41 20
	e(S)	43 22
	eL	44 30
EUR	iP	16 40 35
HH	eP	16 41 16
	eL	45 43
SLC	eP	16 41 15
TUC	e(P)	16 42 18
	i	42 24
	e	48 23
UK	eP	16 39 27
	e	39 33
	i	39 48
	e(S)	40 01
	iL	40 12
Sept. 3		
HH	eP	19 09 27
Sept. 3		
COL	eP	20 08 21

Date and Station		Phase (GCT) h m s
Sept. 3		
COL	eP	21 08 26
Sept. 3		
COL	eP	21 35 38
Sept. 4		
EUR	eP	00 40 49
TUC	eP	00 40 18
Sept. 4		
COL	eP	01 05 56
Sept. 4		
BC	eP	01 44 14
BOZ	eP	01 44 40
COL	iP	01 43 53
EUR	iP	01 44 14
HH	eP	01 44 32
SLC	eP	01 44 31
TUC	eP	01 44 24
	eL	02 15 28
Sept. 4		
COL	eP	04 29 07
EUR	eP	04 32 37
HH	eP	04 32 07
	i	32 10
RC	eP	04 33 17
TUC	eP	04 33 41
Sept. 4		
EUR	eP	04 45 46
TUC	iP	04 46 50
	e	47 03
	e	54 31
Sept. 4		
BH	iP'	04 53 38
BOZ	eP'	04 54 09
EUR	eP'	04 53 58
HH	e(P')	04 54 51
	e(SKS)	05 01 47
RC	eP'	04 54 17
	e	55 24
SJ	eP'	04 53 46
TUC	e(P')	04 54 44
Sept. 4		
EUR	eP	05 00 46
UK	iP	04 59 33
	i	59 39
	i(S)	59 52
	iL	05 00 01
Sept. 4		
COL	eP	08 19 48
Sept. 4		
COL	eP	11 36 42
Sept. 4		
COL	eP	11 39 32
Sept. 4		
COL	eP	12 38 56
Sept. 4		
EUR	eP	13 06 54
HH	eP	13 06 45
RC	eP	13 07 16
Sept. 4		
RC	e(P)	15 04 45
Sept. 4		
HH	e(P)	16 02 56
Sept. 4		
COL	eP	17 01 16
HH	iP	17 05 53
Sept. 4		
BC	e(P)	20 11 16
BOZ	eP	20 10 46
COL	eP	20 07 23
	eL	12 14
EUR	eP	20 10 51
HH	eP	20 10 19
RC	eP	20 11 32
Sept. 4		
EUR	eP	21 07 52
TUC	eP	21 07 51
Sept. 4		
EUR	eP	21 19 28
HH	eP	21 19 17
RC	e(P)	21 20 08
Sept. 4		
COL	eP	22 31 38
TUC	e(P)	22 26 12
Sept. 4		
EUR	eP	22 49 44
Sept. 5		
TUC	e(P)	01 00 13
Sept. 5		
EUR	eP	01 33 30
	epP	34 04
HH	eP	01 33 44
RC	eP	01 33 44
SJ	eP	01 29 10
Sept. 5		
BC	eP	04 08 50
COL	eP	04 04 28
	eL	07 40
EUR	iP	04 08 23
	i	08 36
HH	eP	04 07 45
RC	eP	04 09 00
	e	09 12
TUC	eP	04 09 32
Sept. 5		
BC	eP	04 15 13
COL	eP	04 16 33
EUR	eP	04 15 12
RC	eP	04 14 02
SJ	eP	04 09 33
TUC	eP	04 14 52
Sept. 5		
EUR	eP	04 26 03
Sept. 5		
BC	eP	07 35 22
COL	eP	07 31 11
EUR	iP	07 34 59
	i	35 19
HH	eP	07 34 23
	e	34 51
	iPcP	35 38
	i	35 59
	eS	41 47
	e	43 05
RC	eP	07 35 24
	e	35 45
SLC	eP	07 35 10
TUC	eP	07 35 54
	e	36 14
	e	37 03
Sept. 5		
EUR	eP	07 42 01
TUC	eP	07 41 56
Sept. 5		
EUR	eP	08 45 02
HH	eP	08 44 42
SJ	iP	08 36 52
	iS	37 10
	iL	37 14
Sept. 5		
COL	eP	10 17 59
HH	e(P)	10 21 42
	e	23 24
Sept. 5		
EUR	eP'	11 54 13
COL	eP	11 48 46
Sept. 5		
EUR	iP	13 26 58
HH	eP	13 26 47
RC	eP	13 27 30
Sept. 5		
EUR	eP'	14 09 45
	iPKS	13 02
HH	eP'	14 09 37
RC	ePKS	14 13 18
Sept. 5		
EUR	eP	15 54 27
RC	e(P)	15 56 01
	e	56 57
SLC	iP	15 53 47
	i	54 05
	i	54 38
TUC	eP	15 55 32
	e	57 08
Sept. 5		
BOZ	eP	19 10 22
EUR	iP	19 10 11
	epP	10 48
HH	iP	19 10 40
RC	eP	19 09 54
SLC	iP	19 10 03
SJ	eP	19 05 52
TUC	iP	19 09 22

Date and Station		Phase (GCT)
		h m s
Sept. 5		
EUR	eP	20 06 46
HH	eP	20 06 15
TUC	e(P)	20 12 01
Sept. 5		
TUC	e(P)	22 33 47
Sept. 6		
BH	iP	00 24 03
BC	iP	00 29 03
	i	29 19
BOZ	iP	00 29 34
	ipP	30 10
BUT	iP	00 29 39
COL	iP	00 31 38
	ePP	35 53
COLU	iP	00 27 18
	iPP	27 54
EUR	iP	00 29 22
	ipP	29 59
HH	iP	00 29 52
	e(PPP)	35 15
RC	iP	00 29 01
	e	31 30
SLC	iP	00 29 15
	e	29 27
SJ	iP	00 25 06
	ipP	25 31
	iScP	30 30
	iPcS	30 55
TUC	iP	00 28 33
	ipP	29 09
UK	iP	00 29 45
	ipP	30 21
Sept. 6		
EUR	eP	00 34 45
Sept. 6		
COL	iP	00 36 30
EUR	iP	00 36 11
TUC	iP	00 36 13
Sept. 6		
COL	iP	01 09 47
EUR	eP	01 14 35
HH	eP	01 13 44
	e	14 16
	e	20 36

Date and Station		Phase (GCT)
		h m s
Sept. 6		
COL	iP	01 25 15
EUR	iP	01 27 24
	ipP	28 16
HH	iP	01 27 16
	ipP	28 07
RC	eP	01 27 57
SLC	eP	01 27 36
	ipP	28 28
TUC	eP	01 27 56
	epP	28 47
Sept. 6		
BC	eP	05 03 06
	e	03 17
BOZ	iP	05 02 41
BUT	eP	05 02 47
COL	iP	04 59 23
	e	05 00 10
	eS	02 41
	eL	03 01
COLU	eP	05 05 40
EUR	iP	05 02 44
HH	iP	05 02 16
PHIL	eP	05 05 23
	iS	14 33
	eL	27 24
RC	iP	05 03 24
SLC	eP	05 03 59
	e	04 34
SJ	eP	05 07 32
TUC	eP	05 03 43
	e	04 06
	eL	24 46
UK	eP	05 02 08
Sept. 6		
UK	iP	07 29 35
Sept. 6		
EUR	eP	09 11 06
Sept. 6		
COL	eP	11 02 14
Sept. 6		
COL	iP	12 21 56
EUR	iP	12 25 19
Sept. 6		
EUR	eP	12 58 51

Date and Station		Phase (GCT)
		h m s
Sept. 6		
HH	iP	15 31 06
	iS	31 31
	eL	31 33
Sept. 6		
EUR	eP	16 17 09
Sept. 6		
EUR	eP	17 16 34
Sept. 6		
EUR	eP	20 19 41
Sept. 6		
EUR	eP	20 23 05
Sept. 6		
COL	i(P)	20 33 40
	i	35 38
EUR	eP	20 35 07
HH	eP	20 34 26
	e	36 24
	e	36 32
Sept. 6		
COL	iP	21 54 56
Sept. 7		
COLU	eP	01 01 16
Sept. 7		
BH	iP	01 12 21
	iS	13 46
BC	eP	01 19 12
BOZ	eP	01 19 30
EUR	iP	01 19 29
	i	20 02
HH	eP	01 19 53
	iPcP	21 00
RC	iP	01 18 47
SLC	eP	01 19 13
TUC	iP	01 18 35
Sept. 7		
BC	iP	06 59 02
	i	59 17
BOZ	iP	06 58 33
	i	58 45
BUT	iP	06 58 25
	i	58 38
COL	iP	06 55 05
	eS	59 30
	eL	07 01 15
COLU	iP	07 00 57
	iPcP	01 11
EUR	iP	06 58 42
	i	58 55
	iPP	07 01 04
	eP'P'	27 55

Date and Station		Phase (GCT)
		h m s
HH	iP	06 58 02
	i	58 22
	eS	07 05 48
	iScS	07 56
KIP	eP	06 57 01
	i	57 13
RC	iP	06 59 08
	i	59 22
	eS	07 07 37
	e	08 12
	eP'P'	28 04
SLC	iP	06 58 53
	e	59 04
	ePcP	59 39
TUC	iP	06 59 34
	i	59 48
	e(PcP)	07 00 00
	ePP	02 14
	eP'P'	27 54
UK	eP	06 58 28
	e	58 38
WASH	iP	07 00 45
	e	01 16
Sept. 7		
HH	eP	07 39 11
Sept. 7		
COL	eP	09 30 50
HH	e(P)	09 34 01
Sept. 7		
BH	iP	10 19 41
	iS	30 05
BC	iP	10 15 21
	eS	22 14
	eL	25 53
BOZ	iP	10 14 53
	eS	21 21
	eL	25 09
BUT	iP	10 14 44
	i	15 17
	iS	20 55
	iL	24 55
CHI	eP	10 16 46
	eS	24 54
	eL	32 18
COL	iP	10 11 29
	i	11 59
	i	12 27
	i	12 30
	i	12 57
	iS	15 18
	i	15 28
	iL	16 16
	i	19 12

Date and Station		Phase (GCT) h m s
COLU	iP	10 17 50
	i	18 03
	iPcP	18 25
	eS	26 43
	iS	26 46
	iScS	27 46
	eSS	32 09
	eL	36 53
EUR	iP	10 14 57
HONO	iP	10 13 32
HH	iP	10 14 29
	eS	20 29
	iS	20 35
	iL	24 36
	e(P'P')	46 22
KIP	iP	10 13 31
	i	14 03
PHIL	eS	10 26 32
	iS	26 35
	e	30 39
	eL	34 38
RC	iP	10 15 37
	ePP	17 36
	e	20 57
	iS	22 39
	e	23 09
	eScS	25 35
	eL	32 18
SLC	iP	10 15 12
	i	15 30
	ePcP	16 40
	eS	21 55
	eL	25 19
SJ	iP	10 19 43
	eS	30 18
SIT	iP	10 12 21
	iS	17 12
	i	17 26
	eL	17 42
TUC	iP	10 15 58
	iPcP	17 13
	iS	23 22
	eSS	27 07
	eL	30 28
	eP'P'	46 24
UK	iP	10 14 23
	eS	20 27
WASH	eP	10 17 50
	e	19 01
	iS	27 05
	e	35 00
	eL	41 55
Sept. 7		
COL	eP	11 23 44
EUR	eP	11 27 13
HH	eP	11 26 39
Sept. 7		
EUR	eP	11 41 00
HH	eP	11 40 38
Sept. 7		
COL	iP	13 32 18
Sept. 7		
BC	eP	15 16 53
EUR	iP	15 17 12
	ipP	17 40
HH	iP	15 17 41
RC	eP	15 16 58
	epP	17 26
SJ	eP	15 13 01
TUC	eP	15 16 22
Sept. 7		
RC	e(P)	20 41 54
Sept. 7		
TUC	e(P)	22 27 44
Sept. 8		
COLU	e(P)	00 33 46
Sept. 8		
COL	eP	01 27 00
EUR	eP	01 31 08
Sept. 8		
EUR	eP	02 12 29
Sept. 8		
COL	eP	03 28 54
EUR	eP	03 29 19
Sept. 8		
COL	iP	05 50 58
HH	iP	05 53 07
Sept. 8		
EUR	eP	08 55 20
COL	iP	08 53 57
Sept. 8		
COL	eP	09 09 54
SJ	eP	09 01 15
Sept. 8		
BC	eP	10 27 44
BOZ	eP	10 27 18
COL	iP	10 23 55
	eS	27 03
	eL	27 34
COLU	eP	10 30 38
EUR	eP	10 27 21
HH	eP	10 26 50
	ePcP	29 17
RC	eP	10 28 11
SJ	eP	10 32 23
TUC	eP	10 28 24
	i	28 29
Sept. 8		
BC	eP	13 00 28
	i	00 52
EUR	eP	13 00 27
	iP	00 32
	ipP	01 05
TUC	eP	13 02 08
Sept. 8		
EUR	eP	13 14 27
Sept. 8		
BC	eP	13 32 16
COL	iP	13 31 11
EUR	iP	13 32 13
HH	eP	13 32 19
KIP	eP	13 28 28
	epP	28 43
Sept. 8		
HH	e(P)	14 00 51
Sept. 8		
EUR	eP	19 56 08
Sept. 8		
EUR	eP	20 17 44
Sept. 8		
EUR	eP	20 45 20
Sept. 8		
COL	iP	20 51 50
EUR	eP	20 51 27
Sept. 8		
EUR	eP	21 23 40
Sept. 8		
EUR	eP	22 05 41
Sept. 9		
BC	eP'	00 33 27
	e	33 32
BOZ	eP'	00 33 46
	e	34 11
BUT	eP'	00 33 59
EUR	eP'	00 33 28
HH	eP'	00 33 47
	e	34 57
	i(PKS)	38 01
RC	eP'	00 33 50
	e	34 42
SLC	eP'	00 33 43
	e	34 10
SJ	eP'	00 33 21
TUC	eP'	00 33 29
	i	34 04
	eL	01 24 38
WASH	eP'	00 33 51
	e	39 00
	eL	01 37 23
Sept. 9		
COL	iP	01 54 10
	i	54 24
	eL	02 07 39
Sept. 9		
BC	eP	05 05 50
COL	iP	05 05 13
	ipP	05 36
EUR	iP	05 05 48
Sept. 9		
EUR	eP	07 04 39
Sept. 9		
BC	eP	09 12 33
BOZ	iP	09 13 12
	e	13 39
BUT	iP	09 13 06
	ePP	16 16
	eS	23 36
	eL	35 46
COL	iP	09 12 57
	ePP	16 20
	e(PPP)	17 59
	eS	23 10
	ePPS	24 46
	eL	35 06
EUR	iP	09 12 37
	eP'P'	39 42
HH	iP	09 13 06
KIP	eP	09 08 18
RC	eP	09 13 32
	ePP	16 59
SLC	eP	09 12 57

Date and Station		Phase (GCT)
		h m s
TUC	iP	09 12 39
	eL	36 48
WASH	ePKS	09 23 19
	eL	53 01
Sept. 9		
COL	iP	13 09 43
EUR	eP	13 09 21
Sept. 9		
BOZ	e(P)	13 18 07
	eP	18 16
BUT	eP	13 18 03
COL	iP	13 18 00
EUR	eP	13 17 34
TUC	eP	13 17 34
Sept. 9		
HONO	eP	16 10 52
Sept. 9		
BC	eP	17 37 36
COL	eP	17 42 13
EUR	iP	17 38 06
HH	eP	17 39 06
RC	eP	17 38 10
	eL	49 53
TUC	eP	17 36 44
	eL	42 27
Sept. 9		
EUR	iP	18 51 54
HH	eP	18 51 18
RC	eP	18 52 19
Sept. 9		
COL	iP	20 16 39
EUR	iP	20 17 18
Sept. 9		
TUC	i(P)	21 41 43
Sept. 9		
COL	eP	22 39 07
Sept. 10		
COL	iP	01 34 16
Sept. 10		
COL	iP	03 44 52
Sept. 10		
HH	eP	05 43 17
SJ	eP	05 54 06

Date and Station		Phase (GCT)
Sept. 10		h m s
COL	iP	06 25 28
Sept. 10		
BH	iP	06 15 56
	iS	16 35
Sept. 10		
HH	eP	08 00 48
Sept. 10		
EUR	eP	09 49 22
Sept. 10		
COL	eP	12 14 30
Sept. 10		
EUR	eP	14 51 37
HH	eP	14 52 16
RC	eP	14 51 42
SJ	iP	14 47 44
Sept. 10		
COL	iP	15 40 12
EUR	ePP	15 46 38
HH	iP	15 39 48
HONO	iP	15 39 27
Sept. 10		
COL	iP	18 48 10
Sept. 10		
BC	eP	20 09 23
BOZ	eP	20 09 08
EUR	eP	20 09 29
HH	iP	20 09 20
RC	eP	20 08 36
TUC	eP	20 09 06
Sept. 10		
HH	e(P)	23 15 54
Sept. 11		
EUR	eP	06 13 46
Sept. 11		
COL	iP	06 51 45
Sept. 11		
EUR	eP	07 45 15
HH	eP	07 45 44
	e	46 14
RC	eP	07 44 58
Sept. 11		
EUR	eP	11 56 18

Date and Station		Phase (GCT)
Sept. 11		h m s
COL	iP	13 26 55
	ipP	27 41
	i	28 12
EUR	eP	13 28 00
Sept. 11		
BC	eP	13 53 08
COL	iP	13 53 34
	ipP	55 30
EUR	iP	13 53 14
HH	eP	13 53 41
RC	eP	13 54 03
TUC	iP	13 53 14
Sept. 11		
COL	eP	14 39 01
EUR	eP	14 40 30
HH	eP	14 40 35
Sept. 11		
COL	eP	15 20 49
Sept. 11		
COL	iP	19 43 26
Sept. 11		
COL	iP	19 51 10
EUR	eP	19 54 40
HH	eP	19 57 08
Sept. 11		
COL	iP	20 32 47
Sept. 11		
BC	iP	23 33 53
BOZ	iP	23 34 35
	i	35 02
BUT	iP	23 34 31
COL	iP	23 34 34
	i	34 44
	i	35 10
	eS	44 40
	eL	00 00 22
EUR	iP	23 33 59
	eP'P'	00 01 20
HONO	iP	23 29 44
	i	29 53
HH	iP	23 34 32
KIP	iP	23 29 44
	i	29 53
RC	iP	23 34 56

Date and Station		Phase (GCT)
		h m s
SLC	iP	23 34 17
	i	34 27
TUC	iP	23 33 59
	i	34 07
	e	34 52
	eL	57 16
UK	iP	23 33 33
	i	33 42
	iP'P'	00 01 27
Sept. 12		
BH	iP	00 30 24
	iS	32 41
BC	iP	00 34 33
	i	34 43
	i	35 07
BOZ	iP	00 35 03
	e	35 15
BUT	iP	00 35 11
	eS	40 51
	eL	43 35
CHI	iP	00 33 28
	iS	37 44
	eL	42 04
COL	iP	00 38 31
	e(PPP)	42 04
	iS	47 00
	iScS	48 17
	eSS	51 20
	eL	54 33
COLU	iP	00 32 04
	i	32 28
	iS	35 13
	iL	36 19
EUR	iP	00 34 54
HH	iP	00 35 30
	eS	41 28
	eScS	45 33
	eL	52 43
KIP	eP	00 39 03
	i	39 26
PHIL	iP	00 33 27
	e	34 27
	iS	37 48
	iL	40 36
RC	iP	00 34 22
SLC	iP	00 34 36
	iPP	35 32
	eS	39 59
	eL	42 11

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Date and Station		Phase	(GCT)
			h m s
SJ	iP		00 32 20
	i		33 05
	iS		35 52
	eL		36 31
SIT	eP		00 37 20
	eS		45 16
	e		46 10
	eL		51 29
TUC	iP		00 33 50
	eS		38 34
	eL		41 47
UK	iP		00 35 36
	ePP		37 14
Sept. 12			
COL	iP		01 31 27
EUR	iP		01 33 38
HH	iP		01 33 28
RC	eP		01 34 12
TUC	eP		01 34 11
Sept. 12			
BC	eP		04 06 46
	eL		14 19
BUT	eP		04 07 55
COL	iP		04 11 23
	ipP		12 14
COLU	iP		04 06 40
	eS		11 03
EUR	iP		04 07 16
HH	iP		04 08 14
RC	eP		04 07 23
	eL		19 23
SLC	iP		04 07 10
	e		07 43
TUC	iP		04 05 55
	e		07 09
	eL		11 42
Sept. 12			
COL	eP		04 29 47
	iP		29 48
EUR	eP		04 33 15
HH	eP		04 32 44
Sept. 12			
EUR	eP		04 41 20
HH	eP		04 42 10
Sept. 12			
COL	eP		05 54 14

Date and Station		Phase	(GCT)
			h m s
Sept. 12			
EUR	eP		06 11 59
Sept. 12			
EUR	eP		09 05 53
TUC	eP		09 05 52
Sept. 12			
EUR	eP		12 16 01
Sept. 12			
EUR	eP		13 07 29
Sept. 12			
COL	iP		17 09 33
Sept. 12			
COL	eP		17 37 22
HH	e(P)		17 39 42
Sept. 12			
EUR	eP		17 54 53
Sept. 12			
EUR	eP		18 54 19
	e		54 52
Sept. 12			
EUR	eP		19 39 55
Sept. 12			
BOZ	eP		23 07 54
	e		08 11
COL	iP		23 08 09
EUR	eP		23 06 04
HH	e(P)		23 05 19
	e		05 41
	eL		06 26
Sept. 13			
HH	eP		01 25 44
Sept. 13			
EUR	eP		05 04 19
Sept. 13			
EUR	eP		06 46 27
HH	eP		06 46 19
Sept. 13			
EUR	eP		09 23 36
HH	eP		09 23 40
Sept. 13			
COL	iP		12 42 25
	i		42 58
Sept. 13			
BC	iP		12 55 15
EUR	iP		12 55 34
HH	eP		12 56 01

Date and Station		Phase	(GCT)
			h m s
RC	iP		12 55 13
	i		56 04
TUC	iP		12 54 46
Sept. 13			
EUR	eP		14 49 16
Sept. 13			
COL	iP		16 37 19
EUR	iP		16 36 45
Sept. 13			
EUR	eP		18 15 38
TUC	eP		18 14 43
Sept. 13			
EUR	eP		19 38 25
Sept. 13			
COL	iP		19 53 03
Sept. 14			
TUC	e(P)		00 48 33
Sept. 14			
BOZ	eP		03 25 23
	e		25 42
BUT	eP		03 22 50
	e		24 45
EUR	eP		03 23 29
HH	eP		03 21 42
	e		23 54
RC	eP		03 24 25
	e		28 17
TUC	eP		03 25 20
Sept. 14			
EUR	eP		05 44 44
Sept. 14			
COL	eP		06 26 23
EUR	eP'		06 32 47
Sept. 14			
COL	i(P)		10 53 17
EUR	eP		10 57 29
	ipP		57 45
RC	eP		10 57 55
TUC	eP		10 58 22
	e		58 39
Sept. 14			
COL	iP		11 34 29
Sept. 14			
EUR	eP		12 56 24

Date and Station		Phase	(GCT)
			h m s
Sept. 14			
COL	iP		14 02 08
EUR	eP		14 05 28
Sept. 14			
COL	iP		14 08 59
Sept. 14			
BC	iP		16 45 26
	i		45 47
EUR	iP		16 45 42
	iL		48 43
SLC	eP		16 46 43
	e		47 46
	eL		48 28
TUC	e(P)		16 46 50
	e		47 12
	eL		48 44
UK	eP		16 48 45
Sept. 14			
TUC	eP		17 00 04
	e		00 32
	eL		29 46
Sept. 14			
BH	iP		17 09 25
	iS		11 28
BC	eP		17 15 39
BOZ	eP		17 16 19
COL	eP		17 19 09
	i		20 28
COLU	eP		17 13 45
EUR	iP		17 16 01
PHIL	eS		17 20 57
	e		24 21
	eL		28 03
RC	eP		17 15 44
SLC	eP		17 15 53
SJ	eP		17 12 09
UK	eP		17 16 34
	e		17 09
Sept. 14			
EUR	eP		17 26 28
Sept. 14			
COL	eP		20 32 48
EUR	eP		20 36 17
RC	eP		20 36 56

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Date and Station		Phase (GCT)
		h m s
Sept. 14		
COL	1P	21 38 [illegible]
Sept. 14		
EUR	eP	23 25 [illegible]
RC	eP	23 24 31
SJ	eP	23 17 18
	1	18 37
TUC	eP	23 24 52
Sept. 15		
BC	eP'	04 41 14
	epP'	42 21
	eSKP	44 08
BOZ	1P'	04 41 09
	1pP'	42 27
BUT	1P'	04 41 06
COLU	1P'	04 41 49
	1	41 55
	1	46 03
EUR	1P'	04 41 07
	1pP'	42 21
	1SKP	44 01
RC	1P'	04 41 17
	epP'	42 31
	eSKP	44 17
SLC	eP'	04 41 13
TUC	eP'	04 41 13
	1	41 25
	e6P'	43 08
	1SKP	44 26
	1SKSP	53 15
Sept. 15		
EUR	1P	08 29 37
Sept. 15		
EUR	eP	09 14 21
TUC	e(P)	09 13 16
Sept. 15		
EUR	eP	09 59 54
TUC	eP	09 58 29
Sept. 15		
RC	eP	16 21 14
	e	22 14
Sept. 15		
EUR	eP	17 35 55
Sept. 15		
EUR	eP	18 28 55
TUC	eP	18 30 01
Sept. 15		
BC	eP	18 55 54
COL	1P	18 54 29
	1pP	55 51
EUR	1P	18 55 27
	1	55 56
	1pP	56 13
HH	eP	18 55 03
	epP	55 50
KIP	eP	18 51 55
SLC	e(P)	18 56 11
TUC	e(P)	18 56 13
Sept. 15		
EUR	eP	21 35 07
RC	eP	21 34 11
TUC	eP	21 34 28
Sept. 15		
BC	eP	22 15 37
BOZ	eP	22 15 12
	1	15 48
BUT	eP	22 15 12
	1	15 27
COL	eP	22 11 48
	1P	11 52
	1	12 32
	eS	15 07
EUR	1P	22 15 14
HH	eP	22 14 45
	1	14 52
SLC	eP	22 15 29
SIT	1P	22 12 39
	1	12 50
	1	13 58
	eS	16 42
	e	17 22
	eL	19 40
TUC	eP	22 16 16
	e	16 28
UK	eP	22 14 45
	e	15 18
Sept. 16		
BUT	eP	00 19 24
COL	1P	00 16 40
EUR	1P	00 19 34
HH	1P	00 19 12
Sept. 16		
BC	eP	01 44 39
BUT	eP	01 43 37
COL	1P	01 40 17
	1	40 20
EUR	1P	01 44 12
	1	44 34
HH	1P	01 42 07
RC	eP	01 43 44
TUC	eP	01 45 07
Sept. 16		
BC	1P	02 03 41
	e(S)	04 55
	1L	05 23
EUR	1P	02 04 32
HH	eP	02 06 33
RC	e(P)	02 06 10
SLC	eP	02 04 53
	eL	08 45
TUC	1P	02 03 21
	1	03 30
	e(S)	04 14
	eL	04 16
Sept. 16		
EUR	1P	02 06 54
Sept. 16		
COL	eP	09 10 21
	e	11 21
EUR	eP	09 14 11
HH	eP	09 15 16
RC	eP	09 14 27
	e	15 56
TUC	eP	09 16 35
Sept. 16		
COL	1P	09 18 04
Sept. 16		
EUR	1P	09 31 44
HH	eP	09 31 20
RC	eP	09 31 58
Sept. 16		
EUR	eP	09 45 49
HH	eP	09 46 21
RC	eP	09 46 04
Sept. 16		
BC	eP	12 50 28
	1	50 48
	1	52 18
EUR	1P	12 50 42
	1	51 22
SLC	eP	12 51 36
	e	52 32
TUC	eP	12 52 05
	e	53 36
Sept. 16		
EUR	1P	13 00 00
RC	eP	13 00 11
Sept. 16		
BC	eP	15 14 22
	e	14 32
	eL	16 18
BOZ	eP	15 16 40
EUR	eP	15 15 14
	eL	17 46
RC	eP	15 16 43
TUC	eP	15 13 46
	1	14 02
	1	14 19
	e(S)	14 49
	eL	14 51
Sept. 16		
COL	1P	15 35 26
EUR	1P	15 40 44
Sept. 16		
EUR	eP	15 48 31
TUC	eP	15 47 18
	e	47 50
	1(S)	48 11
	eL	48 20
Sept. 16		
EUR	eP	15 59 48
TUC	eP	15 58 27
	e	58 40
	e(S)	59 20
	eL	59 24
Sept. 16		
EUR	eP	16 59 17
TUC	eP	16 57 38
	e	58 07
	1(S)	58 50
	eL	58 57
Sept. 16		
EUR	eP	18 40 19
Sept. 16		
EUR	eP	19 59 30
RC	e(P)	20 00 11

Date and Station		Phase (GCT) h m s
Sept. 16		
BC	e(P)	21 30 11
Sept. 16		
EUR	eP	21 28 48
TUC	eP	21 27 26
	e	27 32
	e(S)	28 12
	eL	28 22
Sept. 16		
EUR	eP	21 50 28
Sept. 16		
EUR	eP	23 36 29
Sept. 16		
EUR	eP	23 54 56
SJ	eP	23 51 03
Sept. 17		
COL	iP	04 12 22
	i	13 20
Sept. 17		
COL	iP	04 17 18
Sept. 17		
EUR	eP	05 10 05
TUC	eP	05 08 59
Sept. 17		
COL	eP	06 38 09
HH	eP	06 41 16
Sept. 17		
COL	eP	07 35 56
Sept. 17		
HH	eP	09 19 21
Sept. 17		
COL	iP	12 15 31
EUR	eP	12 18 38
RC	eP	12 19 14
Sept. 17		
COL	eP'	14 43 51
	iP'	43 55
EUR	eP'	14 44 37
	e	45 42
RC	eP'	14 44 53
Sept. 17		
EUR	iP	15 56 00
Sept. 17		
COL	iP	17 02 03
Sept. 17		
COL	iP	17 28 38

Date and Station		Phase (GCT) h m s
Sept. 17		
COL	eP	18 48 14
Sept. 17		
COL	iP	18 53 47
EUR	iP	18 56 22
HH	eP	18 56 03
COL	eP	19 53 10
Sept. 17		
RC	eP	20 35 49
Sept. 17		
EUR	eP	20 50 47
Sept. 17		
EUR	eP	22 02 07
Sept. 17		
COL	iP	22 48 20
Sept. 17		
COL	eP	23 52 28
Sept. 18		
COL	iP	01 05 17
	i	05 34
EUR	iP	01 09 01
RC	eP	01 09 26
SLC	eP	01 09 30
TUC	eP	01 09 55
Sept. 18		
EUR	eP	05 51 02
TUC	eP	05 49 40
	eL	55 16
Sept. 18		
COL	iP	08 33 11
Sept. 18		
COL	iP	09 04 12
Sept. 18		
COL	iP	09 38 06
EUR	eP	09 41 42
RC	eP	09 42 26
Sept. 18		
COL	eP	10 17 49
Sept. 18		
EUR	eP	11 02 54
Sept. 18		
COL	eP	11 27 28
Sept. 18		
BC	e(P)	11 38 26

Date and Station		Phase (GCT) h m s
COL	iP	11 39 25
EUR	eP	11 38 23
Sept. 18		
BC	eP	18 22 54
COL	iP	18 18 59
	eL	23 26
EUR	eP	18 22 29
HH	eP	18 22 03
RC	eP	18 23 29
UK	e(P)	18 21 52
	e	22 04
Sept. 18		
EUR	eP	20 39 19
Sept. 18		
EUR	iP	23 10 14
HH	iP	23 09 44
	e	11 55
RC	eP	23 10 53
Sept. 19		
EUR	eP	00 24 42
Sept. 19		
BC	eP	01 06 07
EUR	iP	01 06 14
KIP	eP	01 01 55
TUC	iP	01 06 14
Sept. 19		
EUR	eP	10 00 21
Sept. 19		
BC	eP	13 49 45
	i	49 57
BOZ	eP	13 49 18
	i	49 29
BUT	eP	13 49 20
COL	iP	13 45 59
	e	49 31
	eL	50 42
EUR	eP	13 49 22
HH	iP	13 48 51
	i	49 02
RC	eP	13 49 57
	e	50 07
SIT	iP	13 46 38
	e	47 23
	eS	50 19
	eL	53 15

Date and Station		Phase (GCT) h m s
TUC	eP	13 50 25
	i	50 36
Sept. 19		
EUR	eP	14 11 46
TUC	iP	14 11 44
Sept. 19		
HH	eP	16 55 12
Sept. 19		
BC	iP	17 00 29
	i(S)	00 44
	iL	00 53
BOZ	e(P)	17 02 56
BUT	eP	17 02 59
EUR	iP	17 00 39
HH	eP	17 02 52
	e	05 44
RC	e(P)	17 03 42
TUC	e(P)	17 01 46
	e	02 05
	eL	03 34
	iL	03 28
UK	eP	17 02 41
Sept. 19		
BC	e(P)	17 14 39
COL	iP	17 14 25
	ipP	15 19
EUR	eP	17 13 58
	ipP	14 51
HH	eP	17 14 27
Sept. 19		
BC	eP	17 39 19
EUR	eP	17 38 57
HH	eP	17 37 47
RC	eP	17 38 06
TUC	eP	17 39 33
	e	39 42
Sept. 19		
EUR	iP	19 04 09
Sept. 19		
COL	iP	22 10 23

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Date and Station		Phase (GCT)
Sept. 20		h m s
EUR	eP	04 47 01
Sept. 20		
BC	eP	06 38 11
COL	iP	06 34 56
EUR	iP	06 37 47
HH	eP	06 36 47
RC	eP	06 36 54
SJ	iP	06 28 24
TUC	iP	06 38 32
Sept. 20		
COL	eP	06 44 46
EUR	eP	06 45 08
Sept. 20		
COLU	iP	07 02 39
	e	02 59
EUR	iP	07 06 36
HH	eP	07 06 42
RC	eP	07 05 32
TUC	eP	07 05 55
Sept. 20		
COLU	eP	07 06 20
	e	06 25
Sept. 20		
EUR	eP	07 15 05
RC	eP	07 15 41
Sept. 20		
EUR	iP	08 09 22
HH	eP	08 09 15
Sept. 20		
BC	iP	08 36 17
BOZ	eP	08 35 50
COL	iP	08 32 32
EUR	iP	08 35 58
	i	36 26
HH	eP	08 35 27
	e	36 15
RC	iP	08 36 18
	e	36 46
TUC	iP	08 36 47
Sept. 20		
COL	iP	09 18 23

Date and Station		Phase (GCT)
Sept. 20		h m s
COL	iP	10 13 20
	ipP	14 08
Sept. 20		
EUR	iP	11 39 33
	ipP	40 17
Sept. 20		
EUR	iP	13 58 53
Sept. 20		
COL	eP	14 09 42
	iP	09 46
EUR	eP	14 13 25
HH	eP	14 12 09
	e	13 16
RC	eP	14 12 50
	e	15 05
TUC	eP	14 14 22
Sept. 20		
COL	iP	15 26 50
Sept. 20		
COL	iP	16 24 24
Sept. 20		
HH	iP	17 59 29
Sept. 20		
COL	iP	18 18 37
Sept. 20		
COL	iP	18 57 22
Sept. 20		
COL	iP	18 59 16
EUR	iP	18 58 44
Sept. 20		
BC	eP	19 13 55
EUR	eP	19 14 12
HH	eP	19 15 11
	e	15 24
RC	e(P)	19 14 16
SLC	eP	19 14 20
TUC	eP	19 12 50
	e	13 09
	e	18 12
Sept. 20		
COL	iP	20 36 34
Sept. 20		
EUR	eP	23 11 02
Sept. 20		
BC	eP	23 15 16
	e	15 28

Date and Station		Phase (GCT)
		h m s
BOZ	eP	23 14 51
BUT	eP	23 15 16
COL	iP	23 11 24
	i	11 36
	e	12 02
	eS	14 56
	eL	15 41
COLU	eP	23 17 56
EUR	eP	23 14 52
HH	e(P)	23 14 21
	eP	14 23
RC	iP	23 15 38
SLC	eP	23 15 09
	e	15 19
SJ	eP	23 19 55
SIT	eP	23 12 11
	i	12 22
TUC	eP	23 15 55
Sept. 21		
EUR	iP	00 22 34
Sept. 21		
EUR	eP	01 21 09
Sept. 21		
EUR	iP	03 55 38
TUC	eP	03 55 38
Sept. 21		
EUR	eP	05 56 19
Sept. 21		
COL	iP	06 09 09
EUR	iP	06 08 52
TUC	e(P)	06 08 54
Sept. 21		
EUR	iP	06 24 02
HH	eP	06 23 50
Sept. 21		
EUR	eP	10 01 04
HH	eP	10 00 52
Sept. 21		
HH	e(P)	10 38 51
	e	42 05
Sept. 21		
BH	iP	11 12 07
	iS	12 50

Date and Station		Phase (GCT)
Sept. 21		h m s
COL	iP	11 33 08
EUR	iP	11 33 52
Sept. 21		
COL	iP	12 33 43
EUR	eP	12 29 39
TUC	eP	12 28 12
Sept. 21		
COL	eP	14 40 06
EUR	eP	14 43 44
Sept. 21		
BOZ	eP	20 29 48
COL	iP	20 28 34
COLU	eP	20 29 28
EUR	eP	20 30 21
HH	iP	20 29 41
RC	iP	20 29 42
Sept. 21		
HH	eP	22 01 50
Sept. 21		
HH	eP	22 03 02
	eS	03 30
	iL	03 32
Sept. 21		
COL	eP	23 26 16
EUR	eP	23 29 38
HH	eP	23 29 10
Sept. 22		
COL	iP	06 41 16
Sept. 22		
COL	iP	07 07 42
	ipP	08 29
Sept. 22		
EUR	eP	08 03 26
Sept. 22		
COL	eP	08 11 42
Sept. 22		
COL	iP	09 32 31
HH	eP	09 34 55
Sept. 22		
COL	iP	15 22 48
EUR	eP	15 26 13

Date and Station		Phase (GCT)
		h m s
Sept. 22		
BC	e(P)	16 06 04
EUR	eP	16 05 33
Sept. 22		
COL	iP	16 54 12
Sept. 23		
COL	i(P)	02 14 40
Sept. 23		
COL	eP	04 27 41
	i	27 58
	i	29 00
Sept. 23		
EUR	eP	05 07 53
Sept. 23		
COL	eP	05 27 44
EUR	eP	05 32 12
HH	eP	05 31 11
Sept. 23		
EUR	eP	07 16 09
Sept. 23		
COL	eP	09 15 28
Sept. 23		
COL	eP	09 17 53
EUR	iP	09 21 25
HH	eP	09 20 53
TUC	eP	09 22 25
Sept. 23		
COL	iP	09 35 50
COLU	ePP	09 45 32
EUR	eP'	09 41 17
HONO	eP	09 34 27
	e	35 06
HH	eP'	09 41 16
RC	eP'	09 41 39
Sept. 23		
BC	iP	12 30 29
	e(S)	30 49
	eL	31 09
EUR	iP	12 30 38
	iL	31 15
SLC	eP	12 31 35
	e	32 42
Sept. 23		
COL	iP	12 58 20
EUR	eP	12 54 41

Date and Station		Phase (GCT)
		h m s
HH	iP	12 55 25
RC	eP	12 54 26
	e	55 35
TUC	eP	12 53 37
Sept. 23		
COL	iP	13 18 28
Sept. 23		
COL	iP	13 25 09
Sept. 23		
COL	iP	13 41 25
Sept. 23		
COL	eP	15 10 24
Sept. 23		
COL	iP	16 49 16
HH	eP	16 52 02
Sept. 23		
COL	iP	17 56 01
HH	eP	17 58 24
Sept. 23		
EUR	iP	18 56 05
HH	eP	18 56 38
	e	19 26 16
TUC	eP	18 56 05
Sept. 23		
COL	iP	19 32 18
Sept. 23		
COL	eP	19 55 53
	i	56 38
EUR	iP	19 59 20
HH	eP	19 58 50
Sept. 23		
EUR	iP	23 08 07
Sept. 24		
COL	iP	00 41 53
Sept. 24		
BC	eP	01 56 24
COL	iP	01 57 06
EUR	iP	01 56 29
HH	eP	01 57 08
TUC	eP	01 56 30
Sept. 24		
COL	eP	04 46 33

Date and Station		Phase (GCT)
		h m s
Sept. 24		
BH	iP'	08 40 54C
BC	eP	08 35 39D
	eP'	39 22
	ePP	41 02
	ePS	50 59
BOZ	eP	08 35 30
	eP'	39 04
	e	39 44
	e(PP)	41 15
	e	41 54
BUT	iP	08 35 24D
	eSKS	46 16
	ePS	49 12
	e(SS)	54 04
	eL	57 32
CHI	ePP	08 41 53
	ePS	51 45
	eSS	58 53
	eL	09 12 37
COL	iP	08 33 33C
	iPP	36 37
	ePPP	38 57
	iS	43 59
	iSS	49 20
	iPKKP	51 50
	iSSS	52 41
	iL	55 40
	iP'P'	59 57
	iSKKP'	09 03 16
COLU	eP'	08 40 22
	iP'	40 25
	ePP	42 54
	iSKP	43 52
	iPKS	44 26
	eSKKS	49 50
	eSKSP	52 46
	iSKSP	53 10
	e(PPS)	54 51
	eSS	09 00 20
	iSS	00 28
	iSSS	05 28
	eL	15 14
EUR	eP	08 35 25
	i	35 49
	i	37 32
	eP'	38 41
	iP'	39 03
HONO	eP	08 32 45C
	i	33 18
	e(PPP)	36 59
	eS	42 13
	iS	42 24
	eSS	47 08
	eL	50 31
HH	iP	08 35 16D
	e	38 50
	eP'	39 09
	iSKS	45 54
	ePS	49 13
	ePPS	50 00

Date and Station		Phase (GCT)
		h m s
HH	ePKKP	08 51 12
	eP'P'	59 14
	eL	09 06 15
PHIL	iPP	08 42 36
	i	43 44
	eSKS	47 31
	iSKKKS	50 13
	eSKSP	52 33
	i	55 44
	iSS	09 00 16
	eL	13 01
RC	eP'	08 39 29
	ePP	40 37
	eSKS	46 29
	ePS	50 21
	ePKKP	50 48
	e	55 01
	eL	09 01 13
SLC	eP	08 35 36
	e	38 58
	eP'	39 34
	ePP	40 22
	eSKS	46 46
	ePS	49 46
	ePPS	50 54
	eSS	55 54
	eL	09 08 02
SJ	eP'	08 40 58D
	ePP	45 03
	eSKKS	51 06
	eSKSP	55 07
	e	57 42
	eSS	09 04 22
	eSSS	09 56
	eL	24 26
SIT	iP	08 34 06D
	iPP	37 44
	eSKS	44 30
	eS	44 53
	iSP	45 27
	iPS	45 58
	iPPS	46 35
	eSS	50 32
	eSSS	54 18
	iL	58 13
TUC	e(P)	08 35 05
	ePP	39 40
	e	41 53
	i	50 14
	iPKKP	50 41
UK	eP	08 35 13
	eP'	38 40
	eSKS	45 39
	ePS	48 32
	ePKKP	51 20
	e	51 50
	eL	09 03 18
	iL	07 20

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Date and Station		Phase (GCT) h m s
WASH	iP'	08 40 22C
	iPP	43 40
	iPKS	44 17
Sept. 24		
EUR	eP	09 10 22
HH	eP	09 09 22
Sept. 24		
COL	iP	09 22 57
EUR	eP	09 25 07
HONO	iP	09 22 10
SJ	eP'	C9 30 29
Sept. 24		
SIT	iP	10 56 56
	iS	57 16
	iL	57 20
Sept. 24		
HH	eP	12 47 27
Sept. 24		
COL	iP	13 16 23
	i	17 13
	i	19 35
Sept. 24		
EUR	iP	14 07 28
HH	eP	14 07 18
RC	eP	14 08 01
Sept. 24		
BH	iP	15 12 56
	iS	13 08
Sept. 24		
COL	eP	17 24 53
Sept. 24		
EUR	eP	22 35 50
Sept. 24		
EUR	iP	23 45 45
Sept. 25		
EUR	eP	05 36 08
Sept. 25		
BC	eP	06 01 14
	e	01 35
BOZ	eP	06 00 31
BUT	eP	06 00 38
	eS	08 32
	eL	17 52
COL	eP	06 01 53
	e(S)	11 09
	eSS	15 07
	eL	18 05

Date and Station		Phase (GCT) h m s
COLU	eP	05 57 56
	eS	06 03 21
	iL	05 31
EUR	eP	06 01 12
HH	iP	06 00 40
PHIL	eS	06 02 08
	eL	05 03
RC	eP	06 00 03
SLC	eP	06 00 45
	e	01 02
SJ	eP	05 56 58
TUC	eP	06 01 07
	e	01 25
	eL	19 24
UK	eP	06 01 51
	e	01 56
Sept. 25		
EUR	eP	06 30 46
Sept. 25		
EUR	iP	07 46 02
HH	eP	07 46 26
TUC	eP	07 45 14
Sept. 25		
HH	eP	09 52 39
Sept. 25		
HH	eP	10 24 15
Sept. 25		
UK	iP	12 35 31
	eS	35 38
	iL	35 39
Sept. 25		
HH	eP	14 02 13
Sept. 25		
COL	iP	14 20 38
	ipP	21 26
SJ	eP'	14 27 52
Sept. 25		
HH	eP	15 29 23
	e	34 46
COL	iP	16 49 02
	i	49 18
	eS	59 11
	eSS	17 04 34
	eL	10 18
EUR	iP'	16 55 13
HH	eP	16 50 55
	ePP	55 13
	eSKS	17 01 32

Date and Station		Phase (GCT) h m s
RC	eP'	16 55 28
	ePP	56 38
Sept. 25		
EUR	eP	17 06 42
RC	eP	17 06 13
Sept. 25		
EUR	iP	18 13 23
Sept. 25		
EUR	eP	18 53 48
Sept. 25		
EUR	eP	21 21 49
Sept. 25		
SJ	eP	22 07 13
	i	07 39
Sept. 25		
COL	iP	22 29 29
EUR	e(P)	22 32 07
RC	ePP	22 36 37
Sept. 25		
COL	eP	23 45 58
EUR	eP'	23 51 50
	iPP	52 35
Sept. 26		
EUR	iP	02 33 09
Sept. 26		
COL	iP	02 44 30
SJ	eP'	02 52 26
Sept. 26		
COL	iP	03 39 53
EUR	eP	03 43 24
Sept. 26		
EUR	eP	05 41 09
RC	eP	05 42 49
Sept. 26		
EUR	iP	06 26 50
TUC	eP	06 27 50
Sept. 26		
COL	iP	07 16 52
Sept. 26		
BC	iP	08 09 50
	ePP	10 26
BOZ	eP	08 10 42
BUT	eP	08 10 48
COL	iP	08 14 15

Date and Station		Phase (GCT) h m s
COLU	eP	08 08 54
EUR	iP	08 10 18
HH	iP	08 11 09
RC	iP	08 10 08
	e	11 05
SLC	eP	08 10 08
TUC	iP	08 09 05
	i	09 52
	eL	19 08
Sept. 26		
KIP	eP	10 19 31
Sept. 26		
SJ	eP	12 09 08
Sept. 26		
EUR	e(P)	12 20 18
Sept. 26		
EUR	eP	12 33 08
HH	eP	12 32 25
	e	34 50
RC	eP	12 32 26
Sept. 26		
EUR	eP	12 49 20
TUC	e(P)	12 48 11
Sept. 26		
HH	eP	12 54 42
Sept. 26		
BC	iP	13 41 13
BOZ	eP	13 42 03
	e	42 20
BUT	eP	13 42 09
COL	iP	13 45 33
	ipP	46 12
	i	46 15
COLU	eP	13 40 08
EUR	iP	13 41 40
HH	iP	13 42 30
RC	eP	13 41 28
SLC	eP	13 41 29
TUC	eP	13 40 27
	iP	40 29
	eL	51 54
Sept. 26		
COL	eP	14 33 17

Date and Station		Phase	(GCT)
Sept. 26			h m s
EUR	eP		15 25 39
HH	eP		15 24 57
Sept. 26			
COL	iP		18 59 08
EUR	eP		19 00 57
	eP'		04 35
HH	eP		19 00 51
	eP'		04 41
KIP	iP		18 58 22
	i		58 52
RC	eP'		19 05 23
SJ	eP'		19 06 40
TUC	ePP		19 06 15
	e		06 45
Sept. 26			
TUC	eP		21 40 18
Sept. 27			
COL	iP		00 28 19
COLU	iP		00 34 41
EUR	iP		00 31 45
HH	iP		00 31 16
RC	iP		00 32 26
	i		32 42
SJ	eP		00 36 35
Sept. 27			
BH	iP'		04 28 20
BC	eP'		04 27 10
	e		27 57
BOZ	eP'		04 27 08
	e		27 50
COL	iP		04 21 22
COLU	eP'		04 27 46
	ePP		30 36
EUR	iP		04 23 20
	eP'		26 58
HH	eP		04 23 27
	eP'		26 48
	e		27 32
RC	eP'		04 27 18
	ePP		28 34
SLC	eP'		04 27 10
	ePP		28 01
SJ	eP'		04 28 35
	i		29 04
	ePP		32 31

Date and Station		Phase	(GCT)
			h m s
TUC	eP'		04 27 15
	e		28 12
	e		33 20
	eL		05 02 21
Sept. 27			
BC	eP'		04 37 15
	ePP		38 15
BOZ	e(P')		04 36 45
	ePP		38 11
COL	i(P)		04 33 18
	e		37 45
	e		43 40
EUR	eP'		04 36 50
	iPP		38 00
HONO	eP		04 30 38
HH	iP'		04 36 18
RC	iP		04 37 33
	iPP		38 52
SJ	eP'		04 39 03
	i		39 21
TUC	eP'		04 37 41
	i		37 55
	e		38 44
Sept. 27			
BC	iP		05 07 26
BOZ	iP		05 06 47
	i		06 52
BUT	iP		05 06 39
	i		07 10
COL	iP		05 02 20
	iS		05 03
	iL		05 37
COLU	iP		05 09 29
EUR	iP		05 07 08
HH	iP		05 06 19
	eS		12 18
RC	iP		05 07 24
SLC	iP		05 07 16
SJ	iP		05 11 25
SIT	iP		05 04 02
	i		04 23
TUC	iP		05 08 13
Sept. 27			
COL	eP		05 43 11
Sept. 27			
COL	iP		05 47 01

Date and Station		Phase	(GCT)
			h m s
HH	eP		05 49 51
RC	eP		05 50 58
Sept. 27			
BC	eP		05 55 59
BOZ	eP		05 55 28
BUT	eP		05 55 18
COL	iP		05 52 00
	eL		56 32
COLU	eP		05 58 37
EUR	eP		05 55 33
HH	iP		05 55 02
RC	iP		05 56 15
SLC	eP		05 55 48
SJ	iP		06 00 40
SIT	iP		05 52 44
TUC	iP		05 56 38
Sept. 27			
HH	eP		06 01 21
RC	eP		06 01 54
Sept. 27			
BC	eP'		06 16 21
BOZ	eP'		06 16 16
COL	iP		06 09 52
EUR	eP		06 11 49
	eP'		15 54
HH	eP'		06 15 31
	e		15 53
RC	eP'		06 15 56
TUC	eP'		06 15 43
	i		16 49
Sept. 27			
COL	iP		08 07 24
HH	eP		08 11 22
Sept. 27			
RC	eP		08 24 27
Sept. 27			
SIT	eP		08 43 16
	i		46 40
Sept. 27			
COL	iP		11 16 13

Date and Station		Phase	(GCT)
Sept. 27			h m s
BC	e(P)		11 24 43
	e		24 49
BOZ	eP		11 24 15
BUT	eP		11 24 11
COL	iP		11 20 50
	eS		24 12
	eL		25 29
COLU	eP		11 27 22
EUR	eP		11 24 22
HH	iP		11 23 47
	ePcP		26 20
RC	iP		11 25 00
	e		25 13
SLC	eP		11 24 41
SJ	eP		11 29 23
SIT	iP		11 21 30
TUC	eP		11 25 23
Sept. 27			
BOZ	eP		11 52 45
COL	iP		11 49 22
EUR	eP		11 52 50
HH	eP		11 52 19
	ePcP		54 51
RC	eP		11 53 31
SJ	eP		11 57 54
TUC	eP		11 53 52
Sept. 27			
COL	iP		12 52 02
EUR	eP		12 55 00
HH	e(P)		12 54 34
RC	eP		12 55 35
Sept. 27			
BOZ	e(P)		13 48 00
COL	iP		13 44 25
	ipP		44 48
EUR	eP		13 47 54
HH	eP		13 47 22
	e		49 17
RC	e(P)		13 48 32
	i		48 44
	e		50 16

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Date and Station		Phase (GCT)
		h m s
Sept. 27		
COL	eP	14 32 26
HH	eP	14 34 34
	e	34 46
RC	eP	14 33 00
Sept. 27		
COL	iP	14 33 22
Sept. 27		
BC	iP	18 58 59
BOZ	eP	18 58 41
COL	iP	18 55 57
	ipP	57 17
EUR	iP	18 58 45
HH	iP	18 58 22
	e	59 48
RC	iP	18 59 06
SLC	iP	18 58 55
	ipP	59 38
Sept. 27		
COL	eP	20 49 07
	i	50 54
Sept. 27		
COL	eP	22 40 15
	e	44 48
Sept. 28		
BC	iP	00 39 19C
	e	40 19
	iPP	42 41
	eS	49 00
BOZ	iP	00 39 03C
	e	39 19
BUT	iP	00 38 58C
	e	39 55
	iS	48 26
	eP'P'	01 08 05
COL	iP	00 36 26C
	iPcP	37 17
	ipP	38 22
	iPP	38 42
	e	45 26
	isS	46 28
	i	48 39
	eL	50 18
	iP'P'	01 06 16
	ipSKPP'	10 07
COLU	e(P')	00 44 15
	iPP	45 19
EUR	iP	00 39 06
	ipP	40 46
	eSKPP'	01 07 57

Date and Station		Phase (GCT)
		h m s
HH	iP	00 38 46
	epP	40 28
	iS	48 04
	iScS	48 16
	eSP	48 34
	eSKPP'	01 09 09
KIP	iP	00 36 39C
RC	iP	00 39 30D
	e	40 26
	epP	41 24
	ePP	42 58
SLC	iP	00 39 15C
	e	39 53
	eS	48 56
	eSKPP'	01 08 05
SJ	iP'	00 45 40C
	ipP'	47 38
SIT	iP	00 37 14D
TUC	iP	00 39 41C
	epP	41 25
	iPP	43 19
	eS	49 30
	iS	49 32
	eSKPP'	01 08 06
UK	iP	00 38 41C
Sept. 28		
COL	iP	03 33 00
	ipP	33 39
Sept. 28		
COL	iP	04 24 11
	i	24 43
Sept. 28		
COL	eP	07 19 12
HH	eP	07 18 54
Sept. 28		
COL	eP	10 28 02
Sept. 28		
BC	iP	13 00 29
	i	00 49
	i	01 30
EUR	iP	13 00 41
SLC	eP	13 01 40
	e	02 44
TUC	eP	13 02 07
	e	03 35
Sept. 28		
EUR	eP	13 11 55
Sept. 28		
BH	iP	14 32 54
	iSKS	42 35
BC	iP	14 31 25D
	ipP	33 31

Date and Station		Phase (GCT)
		h m s
BC	eS	14 40 55
	eL	57 42
BOZ	iP	14 32 02D
	i	32 40
	ipP	34 09
	iPP	35 35
	e	36 22
	e(SPP)	38 50
	e	40 45
	eS	42 04
	eL	56 07
	eP'P'	57 44
BUT	iP	14 31 57D
	ipP	34 05
	eSKS	41 29
	eS	41 57
	esS	45 41
	eSSS	52 25
	eL	58 21
CHI	ePP	14 37 31
	eSKS	42 43
	iS	44 11
	isS	48 07
	iSS	51 31
COL	iP	14 31 52C
	ipP	34 07
	isP	35 05
	iPP	35 25
	ipPP	37 20
	i	40 48
	iS	41 46
	iSP	42 50
	isS	45 09
	iSS	47 52
	isSS	51 20
	i	54 36
	iP'P'	57 05
	iL	57 36
	iSKPP'	15 00 07
COLU	iP'	14 37 20
	iPP	37 53
	iSKS	43 00
	iS	44 34
	iSP	46 19
	ipS	47 12
	isS	48 28
	iSS	52 19
	eSS	52 30
	esSS	55 41
	eL	15 05 30
HH	iP	14 31 58D
	e	33 28
	ipP	34 10
	isP	35 13
	iSKS	41 34
	iSP	43 01
	esS	45 39
	eSS	48 03
	iPKKP	49 31
	eL	50 13
	iP'P'	57 39
	eSKPP'	15 00 02

Date and Station		Phase (GCT)
		h m s
HONO	eP	14 27 36
	iS	33 39
	i	35 05
	i	35 48
	iScS	36 34
	iL	39 17
KIP	iP	14 27 35
	iPcP	29 03
	i	30 01
PHIL	iPP	14 38 33
	esPP	41 14
	isPP	41 16
	i(SKS)	43 24
	iSKKS	44 30
	iS	45 24
	iSKP	47 22
	isS	49 21
	i	50 54
	iSS	53 21
	iL	15 11 18
RC	iP	14 32 20C
	ipP	34 30
	i(PP)	36 14
	iS	42 45
	eSP	44 05
	ePKKP	49 23
SLC	iP	14 31 46D
	ipP	33 51
	iS	41 58
	eL	51 21
SJ	iP'	14 37 40C
	iPP	39 00
	iSKS	43 38
	iSKKS	44 57
	iS	46 02
	i	47 46
	iPKKP	48 12
	ipS	48 35
	eSS	54 22
	iSS	54 44
	isSS	57 46
	iSKPP'	15 01 35
	eL	06 19
SIT	iP	14 31 38C
	epP	33 40
	ipP	33 46
	isP	34 48
	iPP	35 06
	epPP	36 40
	isPP	38 00
	eSKS	41 04
	iSKS	41 09
	eSP	42 15
	isS	45 04
	esPS	45 42
	iSS	47 07
	isSS	50 04
	iSSS	50 42
	iL	53 44

Date and Station		Phase (GCT)
		h m s
TUC	iP	14 31 30D
	ipP	33 34
	isP	34 33
	e(sPP)	37 37
	eS	40 54
	iS	40 55
	iSP	41 57
	e	43 11
	isSP	45 03
	ePKKP	49 46
	esSS	50 03
	i	52 22
	eL	54 05
	eP'P'	57 45
	eSKPP'	15 00 16
UK	iP	14 31 06D
	ipP	33 10
	iS	40 17
	i	40 49
	eSP	41 32
	esS	44 05
	isPS	44 36
	ePKKP	49 00
	eL	52 14
WASH	e(P)	14 33 34
	ipP	35 46
	iPP	38 20
	ePPP	41 09
	e(SKS)	44 02
	iSKP	46 48
Sept. 28		
COL	iP	14 41 45
BC	iP	14 55 30
	epP	57 57
COL	iP	14 55 57
	ipP	58 03
EUR	iP	14 55 35
HH	iP	14 56 03
RC	eP	14 56 26
TUC	iP	14 55 35
	ipP	55 54
Sept. 28		
COL	eP	15 05 54
Sept. 28		
COL	iP	15 17 42
	i	18 23
HH	eP	15 18 03
Sept. 28		
BC	eP	21 06 00
	i	06 15
EUR	eP	21 05 58
	i	06 12

Date and Station		Phase (GCT)
		h m s
SLC	eP	21 09 06
TUC	eP	21 07 11
	eL	09 46
UK	eP	21 05 32
	e	05 40
	e	05 49
	e(S)	06 19
	eL	06 30
Sept. 28		
BC	eP	21 15 38
	epP	16 27
BOZ	eP	21 15 36
	epP	16 20
BUT	iP	21 15 29
	ipP	16 14
COL	iP	21 13 27
	ipP	14 14
EUR	iP	21 15 29
	ipP	16 13
RC	iP	21 16 02
	epP	16 47
SLC	iP	21 15 41
	ipP	16 25
TUC	eP	21 16 05
	epP	16 45
Sept. 28		
HONO	e(P)	22 56 14
Sept. 29		
EUR	eP	06 16 11
Sept. 29		
COL	iP	06 50 12
	ipP	51 07
EUR	eP'	06 55 54
SJ	iP'	06 57 52
Sept. 29		
COL	iP	07 17 55
	ipP	20 11
EUR	iP	07 17 35
HONO	eP	07 13 39
TUC	iP	07 17 36
	epP	19 48
Sept. 29		
BC	iP	08 25 13
	i	25 24
	epP	27 23
	eS	35 13
	esS	38 58
BOZ	epP	08 28 00

Date and Station		Phase (GCT)
		h m s
BUT	iP	08 25 45
	ipP	28 09
	iP'	29 38
COL	iP	08 25 40
	ipP	27 51
	isPP	32 30
	eSKS	35 20
	iS	35 57
	i	36 09
	isS	39 40
	isSP	40 52
	e(sSS)	46 15
	eL	52 22
EUR	iP	08 25 18
	ipP	27 22
	e	34 36
	ePKKP	42 25
	eP'P'	51 00
HONO	iP	08 21 39
HH	iP	08 25 46
	epP	27 55
	ePP	29 44
	iSKS	35 26
	ePKKP	42 40
	eP'P'	50 50
	e(SKPP')	53 06
KIP	iP	08 21 40
	ipP	23 30
SLC	iP	08 25 35
	e	26 22
	epP	27 41
	eSKS	35 16
SJ	iP'	08 31 11
	iPP	33 52
	iSKS	37 16
	e	37 46
	eSKKS	38 40
	eL	41 16
SIT	iP	08 35 36
	iPP	39 18
TUC	iP	08 25 17
	ipP	27 22
	esP	28 22
	eSKS	34 52
	eS	35 21
	ePKKP	42 56
	eSKPP'	53 35
UK	iP	08 24 57
	epP	27 04
	iSKPP'	53 46
Sept. 29		
SJ	iP	08 41 22
TUC	eP	08 51 05
Sept. 29		
COL	eP	09 20 16

Date and Station		Phase (GCT)
Sept. 29		h m s
COL	eP	10 18 26
Sept. 29		
BC	eP	13 40 48
EUR	iP	13 40 26
COL	iP	13 36 40
	iPP	37 32
HH	eP	13 39 51
SLC	eP	13 40 37
TUC	eP	13 41 21
	e	41 32
Sept. 29		
COL	iP	13 49 59
EUR	iP	13 49 38
HONO	eP	13 45 44
HH	eP	13 50 05
SLC	eP	13 49 54
TUC	iP	13 49 37
Sept. 29		
COL	eP	14 02 19
	eS	03 50
	eL	04 08
HH	iP	14 05 56
Sept. 29		
EUR	eP	16 24 08
Sept. 29		
EUR	eP	16 33 33
Sept. 29		
COL	eP	17 46 50
Sept. 29		
TUC	eP	18 36 07
Sept. 29		
BC	eP	18 58 16
COL	iP	18 54 16
	i	54 51
EUR	iP	18 57 51
HH	eP	18 57 18
TUC	iP	18 58 54
Sept. 29		
BC	eP	20 03 44
COL	eP	20 06 55
EUR	iP	20 04 05

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Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)	Date and Station		Phase (GCT)
		h m s	Sept. 30		h m s			h m s			h m s
HH	eP	20 04 51	BC	eP	20 34 07						
	e	05 04									
			BUT	eP	20 33 53						
SLC	eP	20 03 56									
			COL	eP	20 31 36						
SJ	eP	20 00 03									
			EUR	eP	20 33 55						
TUC	eP	20 03 08									
			HH	eP	20 33 44						
Sept. 29											
COL	e(P)	20 06 21	SLC	eP	20 34 06						
EUR	eP	20 03 33									
Sept. 29											
HH	eP	22 09 02									
Sept. 29											
EUR	eP	23 56 18									
Sept. 30											
EUR	eP	01 17 24									
Sept. 30											
TUC	eP	01 56 09									
Sept. 30											
COL	eP	04 02 59									
	i	03 44									
Sept. 30											
COL	eP	08 17 20									
	i	17 32									
Sept. 30											
SJ	eP	08 31 03									
Sept. 30											
COL	iP	10 11 10									
	e	12 00									
Sept. 30											
EUR	eP	10 19 15									
Sept. 30											
TUC	eP	10 29 40									
Sept. 30											
BC	eP	11 15 06									
BUT	iP	11 14 58									
COL	eP	11 12 19									
EUR	iP	11 14 54									
HH	iP	11 14 37									
SLC	eP	11 15 05									
TUC	eP	11 15 31									
Sept. 30											
BH	eP	15 01 45									
	eS	02 16									
Sept. 30											
EUR	eP	15 29 48									

LOCAL AND MINOR EARTHQUAKES

Date and Station	Hour (G.C.T.)
BUT	
Sept.	
20	08.9
22	01.3
25	10.1
COL	
Sept.	
12	21.7
29	10.6
EUR	
Sept.	
2	13.7
6	05.8
	07.2
	12.8
	20.1
9	05.0
21	03.1
	14.4
30	21.4
HONO	
Sept.	
3	17.2
4	16.5
5	18.7
7	00.0
	08.8
	10.0
	11.6
15	01.6
17	19.1
18	01.5
SLC	
Sept.	
5	19.0
6	19.0
10	19.0
13	19.1
21	19.3
26	19.0
SJ	
Sept.	
1	01.7
7	01.2
9	03.0
15	21.5
17	09.2
20	00.8
TUC	
Sept.	
1	13.2
2	18.3
4	13.8
7	19.6
	23.5
8	00.3
9	06.0
11	00.7
13	01.3
14	12.3
16	02.4
	05.8
	09.6
	13.1

Date and Station	Hour (G.C.T.)
TUC	
Sept.	
16	15.0
	15.4
	16.3
	18.0
	20.8
	23.1
17	00.7
	01.2
	03.4
	04.2
	04.3
	06.7
18	00.2
	05.5
	06.4
	08.1
	11.7
19	02.7
	03.0
	06.7
	08.8
	09.8
20	01.1
	10.1
21	07.7
	19.6
	21.3
22	02.0
	04.2
	09.5
	15.3
	16.1
	22.0
23	12.5
25	10.7
	10.8
	10.9
26	05.7
27	08.3
	13.8
28	08.1
	09.1
29	05.8
	06.3
	12.5
30	07.4
	13.1

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