USCGS
40

SEISMOLOGICAL BULLETIN

September, 1959

MSI - 225

COAST & GEODETIC SURVEY
LIBRARY & ARCHIVES
SEP 1 1960
CO. NO.

CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 7
Local and minor earthquakes 29

U. S. DEPARTMENT OF COMMERCE

Frederick H. Mueller, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

FOR OFFICIAL DISTRIBUTION

National Oceanic and Atmospheric Administration

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This has been a co-operative project between the NOAA Central Library and the Climate Database Modernization Program, National Climate Data Center (NCDC). To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or Library.Reference@noaa.gov

HOV Services
Imaging Contractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 4, 2011

COAST AND GEODETIC SURVEY

ADDENDA TO AUGUST 1959 SEISMOLOGICAL BULLETIN

Date and Station		Phase (G.C.T.)		
		h	m	s
Aug. 15				
COL	eP	09	08	18C
	e		11	53
	eS		17	30
	eSS		21	56
	e(PKKP)		27	41
	eL		29	01
	eP'P'		36	03

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
Sep.	h m s	°	°	
1	00 38 27**			Peru foreshock.
1	00 52 04*	11 S.	74½ W.	Peru. Felt at Huancayo.
1	10 49 43*	20 N.	64½ W.	North of Puerto Rico.
1	11 37 42*	41½ N.	20 E.	Albania. 2 killed, 34 injured and extensive property damage.
1	11 46 45**			Puerto Rico aftershock.
2	00 05 05*	44 N.	110 W.	Hebgen Lake aftershock.
2	08 03 00*	60 N.	151 W.	Kenai Peninsula.
2	09 31 36*	20 N.	65 W.	Puerto Rico aftershock.
2	12 52 20*	55 N.	164 E.	Near east coast of Kamchatka.
3	02 39 04*	20½ S.	178½ W.	Tonga-Fiji Islands region. h about 550 km.
3	04 02 00*	41 N.	20 E.	Albania.
3	06 27 30*	4½ S.	123 E.	Celebes Islands.
3	21 48 56*	15 S.	175½ W.	Fiji Islands region.
4	08 52 55*	4½ S.	152 E.	New Britain. Felt at Rabaul.
4	12 30 00*	31½ S.	177 W.	Kermadec Islands.
4	17 47 15*	21½ N.	142 E.	Mariana Islands.
4	18 36 41*	1 S.	24 W.	Atlantic Ocean.
4	19 22 32*	52½ N.	168½ W.	Fox Islands, Aleutian Islands
4	23 22 56*	47 S.	75 W.	Near coast of Southern Chile.
5	06 07 38*	1 N.	129 E.	Halmahera Island region.
5	07 00 26*	62 S.	156 E.	Balleny Islands region.
5	15 34 44*	1 N.	129 E.	Halmahera aftershock.
5	21 12 02*	51½ N.	179½ E.	Rat Islands, Aleutian Islands.
5	21 53 22**			do.
5	23 05 00*	18 S.	178½ W.	Fiji Islands.
6	00 27 59*	5½ N.	126½ E.	Near south coast of Mindanao, Philippine Islands.
6	04 10 54*	10 S.	160½ E.	Solomon Islands.
6	13 18 03*	13½ N.	124 E.	Luzon, Philippine Islands.
6	18 55 09**			Peru-Bolivia border region. h about 150 km.
7	04 03 20*	1 S.	23½ W.	Atlantic Ocean.
7	04 05 55*	5½ S.	147 E.	Near north coast of New Guinea.
7	11 39 30*	45 N.	111 W.	Hebgen Lake aftershock.
8	10 03 29*	36½ N.	140 E.	Honshu, Japan. Felt at Mite, Kakioka, Onahama, and Shirakawa. h about 100 km.
8	13 12 04**			South Atlantic Ocean, about 700 miles east of Bouvet Island.
8	19 19 39*	42½ N.	142½ E.	Hokkaido, Japan. Felt at Hiroo, Obihiro, Kushiro, and Urakawa.
8	20 18 37*	58½ S.	24½ W.	Sandwich Islands.

Date 1959	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sep.	h m s	°	°	
9	01 50 05**			Near east coast of Kamchatka.
9	05 44 38**			Hindu Kush. h about 200 km.
10	05 35 04*	6½ S.	154½ E.	Solomon Islands.
10	15 43 28*	45½ N.	148½ E.	Kurile Islands. Felt at Urakawa.
10	16 18 09*	9½ S.	151½ E.	Near east coast of New Guinea. h about 100 km.
10	22 56 34*	47 N.	152 E.	Kurile Islands.
11	02 32 11*	17 S.	178 W.	Fiji Islands.
11	11 05 33*	44½ N.	112 W.	Hebgen Lake aftershock.
11	14 18 07*	42½ N.	29½ W.	North of Azores Islands.
11	19 43 10*	6 S.	155 E.	Solomon Islands. h about 150 km.
11	23 08 38*	12 N.	87½ W.	Near coast of Nicaragua.
12	00 22 01*	6 S.	106 E.	Near west coast of Java. h about 100 km.
12	01 41 03*	20 S.	68 W.	Southern Bolivia. h about 150 km.
12	01 53 47*	3 S.	146½ E.	Bismarck Sea.
12	07 01 45*	3 S.	146½ E.	do.
12	08 47 33*	3 S.	146 E.	do.
12	11 24 27*	9½ S.	156 E.	Solomon Islands region.
12	14 40 10*	5 S.	152½ E.	New Britain. Felt at Rabaul and Rangarere.
12	16 59 05*	17½ N.	106 W.	Off coast of Jalisco, Mexico.
12	21 19 57*	36 N.	71 E.	Hindu Kush. Felt at Peshawar and Sargodha. h about 200 km.
13	03 56 11*	6½ S.	130 E.	Banda Sea.
13	04 38 05*	3½ S.	146½ E.	Bismarck Sea.
13	19 15 52*	39½ N.	74½ E.	Kirghiz, S.S.R.-China border.
13	19 49 36*	45 N.	111 W.	Hebgen Lake aftershock.
13	20 40 41*	45 N.	110½ W.	do.
13	21 23 31*	45 N.	111 W.	do.
13	22 40 36*	1 N.	129 E.	Halmahera Island region.
13	23 39 46*	45 N.	111 W.	Hebgen Lake aftershock.
14	06 22 59*	45 N.	111 W.	do.
14	08 42 56**			Northern Mariana Islands.
14	09 34 52*	45 N.	111 W.	Hebgen Lake aftershock.
14	13 15 49*	24 S.	176½ W.	Tonga Islands region. Mag. 5-3/4 - 6 (Berk).
14	13 36 12*	45 N.	111 W.	Hebgen Lake aftershock.
14	14 09 39*	28½ S.	177 W.	Kermadec Islands. Felt on Raoul. Mag. 7-3/4.
14	14 58 40*	28½ S.	176½ W.	Kermadec aftershock.
14	16 22 01*	28½ S.	176½ W.	do.
14	16 56 13*	29 S.	176½ W.	do.

Date 1959	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Sep.	h m s	°		°		
14	17 06 15*	29	S.	176½	W.	Kermadec aftershock. Felt on Raoul.
14	17 22 28*	46	N.	151½	E.	Kurile Islands.
14	20 27 10*	28½	S.	176½	W.	Kermadec aftershock.
14	22 23 53*	29	S.	177	W.	Kermadec aftershock. Felt on Raoul. Mag. 6½ (Berk).
15	01 30 59*	29	S.	176½	W.	Kermadec aftershock.
15	05 58 11*	28	S.	176½	W.	do.
15	05 59 42*	28½	S.	177	W.	Kermadec aftershock. Felt on Raoul. Mag. 6-1/2 - 6-3/4.
15	06 08 35*	28½	S.	176½	W.	Kermadec aftershock.
15	06 17 28*	28½	S.	176½	W.	do.
15	08 00 23*	28½	S.	177	W.	do.
15	10 48 44*	29	S.	177	W.	do.
15	11 05 33*	21½	S.	179½	W.	Fiji Islands region. h about 600 km. Mag. 6½ (Berk).
15	12 00 20*	28½	S.	176½	W.	Kermadec aftershock.
15	12 54 25*	21½	S.	177½	W.	Tonga Islands region.
15	13 46 17*	29	S.	177	W.	Kermadec aftershock.
15	15 08 23*	43	N.	147	E.	Near east coast of Hokkaido, Japan. Felt at Kushiro and Nemuro. h about 100 km.
15	22 34 42*	29	S.	176½	W.	Kermadec aftershock.
16	02 03 34*	29	S.	176½	W.	do.
16	02 35 59*	29	S.	176½	W.	do.
16	05 13 50*	35½	N.	26	E.	Near coast of Crete. Felt.
16	10 07 45*	29	S.	176½	W.	Kermadec aftershock.
16	15 57 03*	28½	S.	176	W.	Kermadec aftershock. Mag. 5-3/4 - 6 (Berk).
16	19 14 53*	7	N.	77½	W.	Panama-Colombia border.
16	20 53 54*	7½	N.	77½	W.	do.
16	21 15 28*	45	N.	111	W.	Hebgen Lake aftershock.
16	21 43 57*	45½	N.	111	W.	do.
16	23 20 05*	45	N.	111	W.	do.
17	00 25 31*	45	N.	112	W.	do.
17	02 29 53*	45	N.	111	W.	do.
17	14 07 54*	28½	S.	176½	W.	Kermadec aftershock.
17	14 36 11*	28½	S.	176	W.	Kermadec aftershock. Mag. 5-3/4 - 6 (Berk).
17	14 51 40*	28½	S.	176½	W.	Kermadec aftershock.
17	21 24 27*	13½	N.	88½	W.	El Salvador. Felt. h about 60 km.
17	22 14 40*	30½	N.	114	W.	Gulf of California. Mag. 5¼.
18	09 24 35*	28½	S.	176½	W.	Kermadec aftershock.
18	12 01 11*	57½	S.	24	W.	Sandwich Islands.
18	16 52 48*	5½	S.	147	E.	Near north coast of New Guinea. h about 250 km.

Date 1959	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sep.	h m s	°	°	
19	21 53 38*	45 N.	111½ W.	Hebgen Lake aftershock.
20	06 07 59*	13½ S.	111½ W.	Pacific Ocean, north of Easter Island.
20	23 17 34*	22½ S.	67½ W.	Chile-Bolivia border. h about 150 km.
21	02 08 28*	9½ S.	149 E.	Near coast of New Guinea. Felt at Wanigella.
21	12 19 30*	40 N.	74½ E.	Kirghiz S.S.R.-China border.
21	13 09 36*	10 S.	120 E.	Sumba Island.
21	16 16 19*	62½ N.	159 W.	Southwestern Alaska.
22	07 45 55*	53½ N.	166 W.	Fox Island, Aleutian Islands.
22	11 44 15*	16 S.	173½ W.	Samoa Islands region.
23	09 38 27*	7 N.	77½ W.	Panama-Colombia border.
23	10 38 59*	83½ N.	113½ E.	North Polar region.
23	22 23 11*	35½ N.	138½ E.	Honshu, Japan. Felt at Funatsu and Kofu.
24	05 43 38*	83½ N.	112½ E.	North Polar region.
24	18 25 47*	45 N.	111 W.	Hebgen Lake aftershock.
24	18 55 09*	45 N.	111 W.	do.
24	19 44 29*	29½ S.	176½ W.	Kermadec Islands.
25	00 14 30*	9 S.	113½ E.	Off east coast of Java.
25	01 39 09*	29 S.	177 W.	Kermadec Islands.
25	02 36 46*	22 N.	122 E.	Near east coast of Formosa.
25	07 18 38*	44 N.	39 E.	Caucasus.
25	23 34 57*	29 S.	176½ W.	Kermadec Islands.
26	04 48 53*	44 N.	128 W.	Off coast of Oregon.
26	08 20 51*	43½ N.	128½ W.	do.
26	10 18 20*	22 S.	68½ W.	Northern Chile. Felt at Antofagasta.
26	12 35 38*	79½ N.	12 W.	Off east coast of Greenland.
27	07 16 40**			Solomon Islands region.
27	10 20 18*	5½ S.	129½ E.	Banda Sea.
28	01 11 20*	81½ N.	26 E.	Svalbard region.
28	01 50 27*	42 N.	127 W.	Off coast of Oregon.
28	04 20 27*	26½ N.	128 E.	Okinawa Islands.
29	15 31 57*	29 S.	176½ W.	Kermadec Islands. Mag. 6-1/2 - 6-3/4.
29	15 41 21*	29 S.	176 W.	Kermadec Islands.
29	16 13 53*	29 S.	176½ W.	do.
29	17 07 50*	29 S.	176½ W.	do.
29	17 38 19*	29 S.	176½ W.	do.
30	01 36 00*	45 N.	111 W.	Yellowstone aftershock.
30	03 30 05*	27 N.	125 E.	Ryukyu Islands

Date 1959	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Sep.	h m s	°	°	
30	04 56 21*	28½ S.	176½ W.	Kermadec Islands.
30	13 31 30*	29 S.	176½ W.	do.
30	16 57 30*	35 N.	3 W.	Near coast of Spanish Morocco.
30	20 25 58*	18 S.	168 E.	New Hebrides Islands. Felt at Port Vila and Vate. Mag. 6½.

Date and Station		Phase (GCT)
		h m s
Sept. 1		
EUR	eP	00 33 15
SJ	eP	00 44 45
TUC-T	eP	00 33 35
Sept. 1		
SJ	eP	00 58 24
TUC	eP	00 48 03
TUC-T	eP	00 48 03
Sept. 1		
COL	eP	00 51 40
Sept. 1		
BH	iP	00 56 56C
	iS	01 00 45
BC	iP	01 02 18
COL	eP	01 05 18
COLU	eP	01 00 28
EUR	iP	01 02 38C
HH	eP	01 03 10
RC	eP	01 02 21
TUC	iP	01 01 42
TUC-T	iP	01 01 41
	e	02 23
WASH	eP	01 01 00
Sept. 1		
EUR	eP	05 11 58
Sept. 1		
EUR	iP	05 30 01
	ipP	30 24
Sept. 1		
EUR	eP	05 47 12
Sept. 1		
COL	eP	05 56 20
Sept. 1		
COL	e(P)	07 14 33
Sept. 1		
EUR	eP	07 37 52
HH	eP	07 36 58
RC	eP	07 36 34
TUC	eP	07 38 10
TUC-T	eP	07 38 07

Date and Station		Phase (GCT)
		h m s
Sept. 1		
BOZ	iP	07 39 01
	iL	40 19
HH	eP	07 39 46
	iL	40 45
RC	eP	07 40 41
	eL	41 54
Sept. 1		
BOZ	iP	09 07 01
	iL	08 00
Sept. 1		
EUR	eP	09 15 42
TUC	eP	09 15 46
Sept. 1		
EUR	eP	09 36 17
Sept. 1		
BOZ	iP	10 42 25
EUR	eP	10 44 00
Sept. 1		
BH	iP	10 53 53C
	eS	57 10
BC	iP	10 58 14
	i	58 27
BOZ	eP	10 58 09
BUT	eP	10 58 18
COL	iP	11 00 53
	iPcP	01 06
	i	01 20
	eS	09 58
	eL	23 23
COLU	eP	10 54 20
	eS	57 50
EUR	iP	10 58 24
	i	58 36
HH	iP	10 58 29
	i	58 42
RC	eP	10 57 20
	iP	57 22
	i	57 33
SLC	eP	10 58 04
SJ	iP	10 50 17
	iS	50 38
	iL	50 39
TUC	iP	10 57 46
	eL	11 16 13
TUC-T	iP	10 57 45
	i	57 56

Date and Station		Phase (GCT)
		h m s
WASH	iP	10 54 36
	eS	58 29
Sept. 1		
RC	eP	11 28 43
SJ	iP	11 21 37
	i	21 47
Sept. 1		
SJ	iP	11 47 20
	iS	47 43
	iL	47 44
Sept. 1		
BC	iP	11 50 57
	e	51 08
	e	51 25
BOZ	eP	11 50 11
BUT	eP	11 50 11
COL	iP	11 49 19
	eS	59 02
	eL	12 08 44
COLU	eP	11 49 30
	e	51 30
EUR	iP	11 50 45
HH	iP	11 50 04
RC	iP	11 49 58
	i	50 10
	i	54 24
SLC	eP	11 50 32
TUC	eP	11 51 03
	i	51 14
	ePP	54 44
	eL	12 27 14
THULE	iP	11 46 39
	ePP	48 31
TUC-T	iP	11 51 02
	iPP	54 47
WASH	eP	11 48 56
	ePP	51 39
Sept. 1		
SJ	eP	11 54 01
	eL	54 23
Sept. 1		
COL	eP	11 57 54
HH	eP	11 55 34
Sept. 1		
EUR	iP	13 16 54

Date and Station		Phase (GCT)
		h m s
Sept. 1		
BUT	iP	15 15 55
	iL	16 56
HH	eP	15 16 28
	iL	17 32
Sept. 1		
HH	iP	17 01 38
	iL	02 43
Sept. 1		
BUT	iP	17 16 04
	iL	17 11
Sept. 1		
BOZ	iP	18 32 27
	iL	33 30
EUR	e(P)	18 33 51
HH	eP	18 33 15
	iL	34 13
Sept. 1		
BOZ	iP	19 19 37
	iL	20 42
BUT	iP	19 19 47
EUR	eP	19 21 04
HH	iP	19 20 23
	iL	21 23
RC	eP	19 21 18
	eL	22 25
Sept. 1		
BOZ	iP	20 32 37
	iL	33 47
BUT	iP	20 32 51
	iL	34 07
EUR	eP	20 34 02
	i	34 14
HH	iP	20 33 27
	iL	34 27
RC	e(P)	20 33 12
	e	34 19
	eL	35 15
Sept. 1		
EUR	eP	22 35 32
Sept.		
BOZ	iP	00 05 44
	iL	07 01
BUT	iP	00 05 54
	iL	07 28
EUR	iP	00 06 36

Date and Station		Phase (GCT)
		h m s
HH	e(P)	00 05 12
	i	06 30
	i	06 47
	iL	07 54
RC	eP	00 06 27
	i	06 37
	eL	07 52
SLC	iP	00 05 59
	iS	06 38
	eL	07 35
TUC-T	e(P)	00 08 23
	e	08 40
	eL	10 58
TUC	e(P)	00 08 24
	e	08 37
	eL	10 56
Sept. 2		
BOZ	iP	01 53 44
	iL	54 43
BUT	iP	01 53 54
EUR	eP	01 54 04
HH	iP	01 54 29
	iL	55 37
SLC	eP	01 54 30
Sept. 2		
GUAM	iP	02 26 22
	iS	26 34
Sept. 2		
SJ	iP	04 07 58
	e	08 22
	eL	10 04
Sept. 2		
EUR	eP	04 54 04
HH	iP	04 53 16
	iL	54 17
Sept. 2		
BOZ	iP	05 24 59
	iL	26 19
BUT	iP	05 25 07
	iL	26 32
HH	iP	05 25 43
	iL	26 43
RC	eP	05 26 26
	i	26 37
	eL	27 41
SLC	eP	05 25 52

Date and Station		Phase (GCT)
		h m s
Sept. 2		
BOZ	iP	07 41 18
	e	43 33
EUR	eP	07 42 39
Sept. 2		
EUR	eP	08 04 57
Sept. 2		
BC	iP	08 09 40
	i	09 54
COL	iP	08 04 22
	eS	05 34
	iL	05 46
EUR	iP	08 09 11
	i	09 25
HH	iP	08 08 18
	i	08 32
RC	eP	08 09 32
TUC	iP	08 10 24
	ipP	10 46
TUC-T	iP	08 10 23
	e	10 45
Sept. 2		
EUR	eP	08 12 09
Sept. 2		
COL	iP	08 18 03
COLU	eP	08 20 25
EUR	eP	08 15 47
SJ	iP	08 16 22
RC	eP	08 23 24
TUC-T	e(P)	08 23 47
	e	24 05
Sept. 2		
BOZ	iP	09 33 25
BUT	iP	09 33 23
	iL	34 28
HH	eP	09 33 57
	iL	35 01
Sept. 2		
BC	iP	09 40 07
COL	eP	09 42 44
COLU	eP	09 36 12
EUR	iP	09 40 17
	i	40 49
	i	41 47

Date and Station		Phase (GCT)
		h m s
HH	iP	09 40 22
RC	iP	09 39 12
SJ	iP	09 32 11
	iS	32 31
	iL	32 32
TUC	eP	09 39 37
TUC-T	iP	09 39 37
WASH	eP	09 36 29
Sept. 2		
HH	iP	09 41 53
Sept. 2		
BC	eP	12 14 22
	iP	14 24
	e	17 13
	i	17 21
	i	17 34
EUR	eP	12 15 11
HH	e(P)	12 16 47
RC	eP	12 16 20
TUC	eP	12 13 17
	i	13 48
	eL	15 07
	iL	15 22
TUC-T	eP	12 13 20
	i	13 52
	eL	15 06
Sept. 2		
BC	eP	13 02 06
COL	iP	12 57 47
	i	58 00
EUR	iP	13 01 43
	i	01 56
	i	02 12
	i	02 24
	iPcP	02 48
HH	e(P)	13 01 04
RC	eP	13 02 08
TUC	e(P)	13 02 42
TUC-T	eP	13 02 46
Sept. 2		
COL	iP	14 19 14
	iS	20 16
	iL	20 44
Sept. 2		
COL	eP	15 10 07

Date and Station		Phase (GCT)
		h m s
Sept. 2		
BUT	iP	18 38 20
	iL	38 55
Sept. 2		
EUR	eP	18 58 26
	i	59 01
Sept. 2		
EUR	eP	20 30 07
SJ	iP	20 28 54
	e	29 10
Sept. 2		
BUT	iP	21 05 30
	iL	06 31
HH	eP	21 06 08
	iL	07 02
Sept. 2		
EUR	iP	21 19 03
Sept. 2		
SJ	iP	22 03 50
Sept. 2		
BUT	iP	22 26 42
	iL	27 53
EUR	eP	22 28 02
HH	iP	22 27 17
	iL	28 23
Sept. 2		
BUT	iP	22 41 38
	iL	42 46
Sept. 3		
EUR	eP	00 30 18
Sept. 3		
BOZ	iP	00 52 01
	iL	53 00
BUT	iP	00 52 15
	iL	53 28
EUR	eP	00 53 34
HH	iP	00 52 50
	iL	53 53
Sept. 3		
BUT	iP	01 39 29
	iL	40 36
HH	eP	01 40 04
	eL	41 09
Sept. 3		
COL	iP	02 51 01
	epP	53 01

Date and Station		Phase (GCT) h m s
EUR	iP	02 50 39
GUAM	iP	02 47 11
TUC	iP	02 50 39
	e	51 07
TUC-T	iP	02 50 39
Sept. 3		
COL	eP	04 13 42
HH	iP	04 14 26
Sept. 3		
HH	iP	04 33 21
Sept. 3		
BUT	iP	05 12 07
	iL	13 16
EUR	eP	05 13 31
HH	iP	05 12 43
	iL	13 48
Sept. 3		
EUR	eP	05 55 57
Sept. 3		
EUR	eP	06 42 57
GUAM	e(P)	06 33 28
	iP	33 31
	ePcP	35 51
	eL	49 21
HONO	eP	06 39 53
KIP	eP	06 39 54
Sept. 3		
BC	eP'	06 46 44
COL	eP	06 40 51
	e	43 30
	ePP	44 46
	eSKS	51 27
	ePPS	53 15
	e	55 00
	ePSPS	58 22
	eL	07 10 04
BUT	eP'	06 46 18
COLU	eP'	06 47 08
EUR	iP'	06 46 19
HH	eP'	06 46 13
RC	eP'	06 46 43
	ePP	48 27
SJ	eP'	06 48 31
	e	52 31

Date and Station		Phase (GCT) h m s
TUC	ePKP	06 46 31
	ePP	48 10
	e	57 50
	eL	07 23 36
TUC-T	iP'	06 46 31
	iPP	48 10
	ePS	58 18
	e	07 00 09
WASH	eP'	06 47 00
Sept. 3		
EUR	eP	06 56 44
Sept. 3		
EUR	eP	06 59 07
Sept. 3		
BUT	iP	07 22 55
	iL	23 58
Sept. 3		
SJ	iP	07 25 38
	i	26 01
Sept. 3		
COL	e(P)	07 58 54
Sept. 3		
BUT	iP	08 32 47
	iL	33 48
Sept. 3		
BUT	iP	11 37 10
	iL	38 11
COL	eP	11 35 36
EUR	eP	11 38 28
Sept. 3		
SJ	iP	14 55 03
	i	55 26
Sept. 3		
COL	eP	15 02 29
EUR	eP	15 03 02
Sept. 3		
HH	eP	16 18 10
	iL	19 14
Sept. 3		
GUAM	iP	17 57 57
	iS	58 07
Sept. 3		
SJ	iP	20 06 06
Sept. 3		
BUT	iP	21 40 04
	iL	41 11
Sept. 3		
COL	eP	22 01 21

Date and Station		Phase (GCT) h m s
EUR	eP	22 00 53
HH	e(P)	22 01 27
TUC-T	iP	22 00 55
Sep. 3		
EUR	eP	22 26 14
HH	eP	22 25 39
	iL	26 46
Sep. 3		
SJ	iP	23 05 37
	i	05 47
Sep. 4		
COL	eP	00 21 41
Sep. 4		
EUR	eP	02 54 58
Sep. 4		
EUR	iP	04 27 36
Sep. 4		
COL	iP	07 11 37
	i(S)	12 39
	iL	12 52
Sep. 4		
COL	eP	08 55 34
GUAM	iP	08 48 16
Sep. 4		
BC	iP	09 07 14
COL	iP	09 05 10
EUR	iP	09 06 10
GUAM	iP	08 57 23
	ipP	57 51
HH	iP	09 06 18
SJ	eP'	09 12 20
Sep. 4		
EUR	eP	10 16 07
Sep. 4		
EUR	eP	10 46 52
Sep. 4		
SJ	iP	11 21 32
	e	22 47
Sep. 4		
BC	iP	12 43 01
COL	eP	12 43 43
EUR	iP	12 43 09
TUC	eP	12 43 04

Date and Station		Phase (GCT) h m s
TUC-T	iP	12 43 05
Sep. 4		
COL	eP	14 16 43
Sep. 4		
EUR	eP	15 39 02
Sep. 4		
BC	iP	17 59 42
COL	iP	17 57 15
EUR	iP	17 59 31
	ipP	18 00 31
GUAM	eP	17 49 28
HH	iP	17 59 19
SJ	iP	16 56 12
	e	57 35
Sep. 4		
COL	iP	18 06 51
HH	e(P)	18 09 46
TUC-T	eP	18 00 57
Sep. 4		
SJ	eP	18 21 48
	e	22 12
Sep. 4		
COL	iP	18 22 44
	iS	23 27
	iL	23 33
Sep. 4		
BC	eP	18 39 51
COLU	eP	18 37 17
EUR	eP	18 39 55
HH	iP	18 39 47
RC	eP	18 39 10
	e	41 31
SJ	eP	18 35 06
TUC-T	iP	18 39 35
	e	39 56
	ePP	43 03
Sep. 4		
COL	eP	19 19 25
Sep. 4		
BC	eP	19 30 21
COL	eP	19 26 21
EUR	eP	19 29 50
HH	e(P)	19 29 25

8-4297-4

Date and Station		Phase (GCT)
		h m s
SJ	iP	19 32 29
TUC-T	eP	19 30 48
Sep. 4		
SJ	iP	20 48 57
Sep. 4		
EUR	eP	22 57 04
Sep. 4		
BC	eP	23 35 56
COLU	eP	23 35 15
EUR	eP	23 36 19
SJ	eP	23 33 44
	e	34 26
Sep. 4		
TUC	eP	23 35 37
	e	36 25
TUC-T	e(P)	23 35 37
	iP	35 41
Sep. 5		
BOZ	iP	01 20 24
	iL	21 32
BUT	iP	01 20 35
	iL	22 01
EUR	iP	01 21 47
HH	iP	01 21 10
	iL	22 12
SLC	eP	01 21 18
	e	22 21
Sep. 5		
BOZ	eP	01 31 44
	e	33 04
EUR	eP	02 26 43
HH	eP	02 26 05
	iL	27 09
Sep. 5		
COL	iP	02 57 16
	iS	57 36
	iL	57 42
Sep. 5		
EUR	eP	03 55 53
Sep. 5		
COL	iP	05 45 19
EUR	eP	05 47 01
Sep. 5		
EUR	eP	06 10 45

Date and Station		Phase (GCT)
Sep. 5		h m s
EUR	e(P)	06 22 16
	i	22 24
Sep. 5		
COL	eP	06 20 24
	eS	30 50
	i	31 06
	eSS	36 18
	ePSPS	39 16
	eL	43 50
EUR	eP	06 24 53
GUAM	iP	06 12 15
	eS	16 00
SJ	eP'	06 27 44
	e	28 09
TUC	e(P')	06 26 30
	e	27 28
TUC-T	e(P')	06 26 25
	e	26 31
	i	27 27
WASH	eP'	06 26 56
Sep. 5		
EUR	eP	06 37 20
TUC-T	eP	06 37 07
Sep. 5		
BC	eP'	07 19 24
COL	eP'	07 19 44
GUAM	iP	07 12 14
HH	eP'	07 19 44
TUC-T	eP'	07 19 22
Sep. 5		
EUR	eP	08 16 41
TUC	eP	08 18 21
TUC-T	eP	08 18 15
	e	18 20
UK	eP	08 15 23
	eL	16 01
Sep. 5		
EUR	iP	09 19 41
Sep. 5		
UK	eP	10 25 24
Sep. 5		
BC	iP	12 05 55
BOZ	iP	12 03 51
	iL	05 13

Date and Station		Phase (GCT)
		h m s
BUT	iP	12 04 07
	iL	05 48
COL	iP	12 09 33
EUR	iP	12 05 16
	i	05 35
	i	05 46
HH	iP	12 04 41
	iL	05 44
RC	eP	12 04 56
	eL	06 22
SLC	eP	12 04 40
	iP	04 48
	e	06 03
TUC	e(P)	12 06 51
	ePP	10 25
TUC-T	e(P)	12 06 46
	e	07 30
	e	10 13
Sep. 5		
COLU	eP	12 16 53
Sep. 5		
COL	eP	15 47 29
GUAM	iP	15 39 21
	eS	43 07
Sep. 5		
BUT	iP	16 37 10
	iL	38 29
HH	eP	16 37 43
	iL	38 48
Sep. 5		
BOZ	iP	18 11 05
	iL	12 19
BUT	iP	18 11 19
	iL	12 32
EUR	eP	18 12 30
HH	iP	18 11 54
	iL	12 57
RC	eP	18 12 44
SLC	eP	18 11 55
Sep. 5		
BC	iP	19 18 51
	i	19 06
	iS	19 42
Sep. 5		
COL	eP	21 16 56
	e	21 08
	eL	23 48

Date and Station		Phase (GCT)
		h m s
EUR	iP	21 20 24
	i	20 39
HH	iP	21 19 53
RC	eP	21 21 01
SJ	iP	21 25 05
	e	25 33
TUC	eP	21 21 23
	i	21 38
TUC-T	eP	21 21 23
	i	21 39
Sep. 5		
BC	eP	21 37 25
	i	37 36
COL	iP	21 33 36
	eS	37 30
	eL	39 20
EUR	iP	21 37 04
	i	37 19
HH	eP	21 36 32
RC	eP	21 37 41
SJ	iP	21 42 44
TUC	e(P)	21 38 03
	eP	38 05
	i	38 18
TUC-T	eP	21 38 03
Sep. 5		
EUR	iP	21 44 40
	i	44 57
HH	e(P)	21 44 08
SJ	eP	21 49 21
TUC	eP	21 45 39
TUC-T	eP	21 45 39
Sep. 5		
EUR	iP	22 01 43
COL	iP	21 58 16
HH	eP	22 01 12
SJ	eP	22 06 23
	e	07 10
TUC	eP	22 02 43
TUC-T	eP	22 02 43
Sep. 5		
BC	iP	23 16 22
	ipP	18 23

B-4297-4

Date and Station		Phase (GCT)
		h m s
BC	isP	23 19 35
COL	iP	23 16 44
EUR	iP	23 16 27
GUAM	eP	23 12 53
HONO	iP	23 12 23
HH	iP	23 16 54
	isP	20 26
KIP	iP	23 12 23
RC	eP	23 21 04
SIT	eP	23 16 32
TUC	iP	23 16 29
	epP	18 22
TUC-T	iP	23 16 29
	ipP	18 30
	eP'P'	45 36
UK	iP	23 16 00
Sep. 6		
EUR	eP	00 25 43
UK	iP	00 24 23
	iS	24 31
	iL	24 32
Sep. 6		
COL	iP	00 40 27
GUAM	iP	00 32 32
	eS	36 09
HONO	iP	00 39 41
SJ	eP'	00 48 03
KIP	iP	00 39 42
Sep. 6		
TUC	eP	00 57 31
TUC-T	iP	00 57 31
Sep. 6		
COL	iP	03 56 01
EUR	iP	03 59 28
	i	59 51
SJ	eP	04 04 09
TUC	eP	04 00 28
TUC-T	eP	04 00 28
	e	00 47

Date and Station		Phase (GCT)
Sep. 6		h m s
BC	eP	04 24 09
COL	eP	04 23 28
EUR	iP	04 24 03
GUAM	eP	04 17 01
Sep. 6		
BOZ	iP	04 31 49
	iL	32 51
BUT	iP	04 32 00
	iL	33 40
EUR	eP	04 33 09
HH	iP	04 32 36
	iL	33 45
SLC	eP	04 32 37
	e	33 32
Sep. 6		
TUC	e(P)	04 38 29
TUC-T	eP	04 38 06
Sep. 6		
COL	eP	07 12 22
EUR	iP	07 15 37
Sep. 6		
BOZ	eP	08 19 51
TUC	e(P)	08 25 11
TUC-T	eP	08 25 07
Sep. 6		
BOZ	eP	08 34 00
BUT	iP	08 34 16
	iL	35 17
Sep. 6		
EUR	eP	10 01 10
TUC	eP	10 02 59
TUC-T	eP	10 02 59
Sep. 6		
BUT	iP	12 07 17
	iL	08 20
Sep. 6		
TUC	e(P)	12 53 27
Sep. 6		
BOZ	iP	13 11 31
	iL	12 35
BUT	iP	13 11 39
	iL	12 52

Date and Station		Phase (GCT)
		h m s
EUR	eP	13 12 59
HH	eP	13 12 16
	iL	13 17
SLC	eP	13 12 32
Sep. 6		
COL	eP	13 29 54
GUAM	iP	13 22 35
Sep. 6		
GUAM	iP	13 58 23
	iS	58 45
Sep. 6		
BOZ	iP	14 35 54
	iL	36 49
BUT	iP	14 36 04
	iL	37 10
EUR	eP	14 37 18
HH	iP	14 36 39
	eL	37 40
RC	eP	14 37 05
	e	37 28
	eL	38 48
SLC	eP	14 36 41
	e	37 47
Sep. 6		
BUT	iP	14 50 37
	iL	51 40
HH	eP	14 51 16
	iL	52 18
Sep. 6		
BUT	iP	16 12 39
	iL	13 46
HH	iP	16 13 15
	iL	14 22
Sep. 6		
BC	iP	16 39 35
BOZ	iP	16 37 41
	iL	39 59
BUT	iP	16 37 51
	iL	39 21
EUR	eP	16 38 57
	i	39 08
	eS	40 02
	eL	40 19
HH	iP	16 38 27
	iL	39 34

Date and Station		Phase (GCT)
		h m s
RC	e(P)	16 39 05
	eL	40 28
SLC	eP	16 38 23
	e	39 23
Sep. 6		
EUR	eP	18 18 29
TUC	iP	18 18 27
TUC-T	iP	18 18 28
Sep. 6		
GUAM	iP	18 29 01
	iS	28 11
Sep. 6		
TUC	i(P)	18 58 37
TUC-T	e(P)	18 58 27
	e	58 48
Sep. 6		
COLU	eP	19 04 44
EUR	eP	19 06 42
	i	06 57
HH	iP	19 07 12
SJ	eP	19 02 34
	ipP	02 48
TUC	eP	19 05 52
	i	06 07
	epP	06 26
TUC-T	iP	19 05 52
	i	06 07
Sep. 6		
RC	eP	21 45 02
	eL	46 02
Sep. 6		
COL	eP	21 55 49
Sep. 7		
COL	iP	00 41 03
Sep. 7		
SJ	iP	01 11 33
	eL	14 19
Sep. 7		
GUAM	iP	01 32 31
	iS	32 47
Sep. 7		
EUR	iP	01 44 46
Sep. 7		
BUT	iP	02 46 41
	iL	47 50

Date and Station		Phase (GCT)
		h m s
EUR	eP	02 48 10
Sep. 7		
COL	eP	03 55 24
Sep. 7		
EUR	eP	04 16 35
HH	iP	04 16 29
TUC	eP	04 16 16
TUC-T	eP	04 16 13
Sep. 7		
COL	eP	06 02 30
Sep. 7		
BC	e(P)	06 15 14
	iP	15 49
Sep. 7		
BOZ	iP	06 42 20
	iL	43 23
BUT	iP	06 42 22
	iL	44 32
EUR	eP	06 44 38
	iS	45 38
	iL	45 52
HH	iP	06 42 59
	iL	44 01
RC	eP	06 43 57
	e	44 02
	eL	45 05
SLC	eP	06 43 07
	e	44 08
	e	45 12
TUC	e(P)	06 46 08
	eL	49 46
TUC-T	e(P)	06 46 18
	e	46 47
	eL	49 28
Sep. 7		
TUC	eP	08 30 20
TUC-T	iP	08 30 20
Sep. 7		
BUT	iP	10 16 46
	iL	17 55
Sep. 7		
BC	eP	11 11 35
Sep. 7		
COL	iP	11 25 10
	i(S)	25 36
	iL	25 40

Date and Station		Phase (GCT)
Sep. 7		h m s
BOZ	iP	11 39 44
	iL	41 37
BUT	iP	11 39 46
	iL	41 32
COL	eP	11 45 17
EUR	eP	11 40 52
	i	41 03
	eS	41 54
	eL	42 10
HH	iP	11 40 23
	iL	41 24
RC	eP	11 41 01
	i	41 24
	eL	42 20
SLC	eP	11 40 24
	e	41 23
TUC	e(P)	11 42 30
	eL	46 11
TUC-T	e(P)	11 42 25
	e	43 10
Sep. 7		
EUR	eP	13 09 44
HH	eP	13 09 01
	iL	09 04
Sep. 7		
BOZ	iP	14 42 37
	iL	43 47
BUT	iP	14 42 37
	iL	43 47
COL	eP	14 48 08
EUR	eP	14 43 44
	eS	44 39
	eL	44 54
HH	iP	14 43 13
	iL	44 15
RC	eP	14 44 14
	eL	45 32
SLC	eP	14 43 15
Sep. 7		
SJ	iP	16 20 50
	e	21 12
Sep. 7		
BC	iP	17 38 40
	i	38 49
	i	38 55
Sep. 7		
SJ	iP	19 36 58
	e	37 22

Date and Station		Phase (GCT)
Sep. 7		h m s
HH	eP	20 00 40
	iL	01 41
Sep. 7		
EUR	eP	21 00 02
Sep. 7		
COL	iP	23 43 10
EUR	iP	23 46 35
	i	47 02
RC	eP	23 46 56
TUC	iP	23 47 23
TUC-T	eP	23 47 23
Sep. 8		
COL	eP	00 47 00
TUC-T	eP	00 46 24
Sep. 8		
EUR	eP	01 20 09
Sep. 8		
BOZ	iP	01 41 52
	iL	42 51
EUR	eP	01 43 13
HH	eP	01 42 33
	iL	43 36
Sep. 8		
BUT	iP	02 02 51
	iL	03 58
EUR	eP	02 04 08
HH	eP	02 03 29
	iL	04 29
Sep. 8		
EUR	eP	04 04 21
Sep. 8		
EUR	iP	04 28 34
TUC-T	eP	04 28 35
Sep. 8		
BC	iP	07 12 07
BOZ	iP	07 10 05
	iL	11 40
BUT	iP	07 10 14
	iL	12 40
COL	e(P)	07 15 45
EUR	eP	07 11 26
	eS	12 31
	eL	12 46

Date and Station		Phase (GCT)
		h m s
HH	iP	07 10 49
	iL	11 50
RC	eP	07 11 18
	e	11 37
	eL	12 58
SLC	eP	07 10 54
	e	11 18
	e	12 14
TUC	e(P)	07 12 57
	e	13 32
	eL	16 31
TUC-T	eP	07 12 57
	e	13 21
	eL	16 28
Sep. 8		
HH	eP	09 07 44
Sep. 8		
BC	iP	09 51 06
	i	51 19
EUR	iP	09 51 46
TUC	iP	09 50 08
TUC-T	iP	09 50 09
Sep. 8		
BC	iP	10 08 31
	i	08 44
EUR	iP	10 09 12
GUAM	eP	10 08 32
	i	08 39
TUC	iP	10 07 33
	eL	10 26
TUC-T	iP	10 07 34
	e	08 51
Sep. 8		
BC	iP	10 15 32
	i	15 51
COL	iP	10 12 19
EUR	iP	10 15 17
	ipP	15 37
HH	iP	10 14 52
RC	eP	10 15 40
TUC	eP	10 15 58
	e	16 16
TUC-T	iP	10 15 58
	e	16 17

B-4297-4

Date and Station		Phase (GCT)
		h m s
Sep. 8		
BOZ	eP	11 32 05
COL	iP	11 26 34
EUR	eP	11 29 58
RC	eP	11 29 54
Sep. 8		
SJ	iP	12 11 29
	i	11 50
Sep. 8		
SJ	eP	12 28 50
	i	29 10
Sep. 8		
SJ	iP	12 34 23
Sep. 8		
BC	iP	13 31 55
	i	32 16
BUT	eP	13 32 08
COL	e(P)	13 32 02
	e	34 21
	e	37 16
EUR	eP	13 31 20
EUR	iP	13 32 00
HH	iP	13 32 10
KIP	eP	13 31 27
RC	iP	13 31 33
SLC	eP	13 31 57
SJ	eP	13 26 36
TUC	e(P)	13 31 47
TUC-T	eP	13 31 46
	e	32 05
Sep. 8		
GUAM	iP	14 36 17
	iS	36 50
Sep. 8		
HH	e(P)	14 50 28
Sep. 8		
COL	iP	16 15 28
Sep. 8		
BC	iP	19 31 13
COL	iP	19 27 40
	ipP	27 54
EUR	iP	19 30 56
	ipP	31 16
HH	iP	19 30 29
RC	eP	19 31 30
TUC-T	eP	19 31 43
	epP	32 09
Sep. 8		
BC	iP	19 42 55
EUR	eP	19 43 00
RC	eP	19 42 48
Sep. 8		
BC	iP	20 37 30
COL	eP	20 38 24
	i	38 35
HH	eP	20 37 44
SJ	eP	20 31 08
TUC-T	eP	20 37 20
Sep. 9		
EUR	iP	01 10 34
TUC	eP	01 08 55
TUC-T	eP	01 08 55
Sep. 9		
COL	iP	01 55 53
EUR	iP	01 59 45
HH	eP	01 59 06
Sep. 9		
TUC	e(P)	02 00 41
TUC-T	eP	02 00 46
Sep. 9		
RC	e(P)	02 18 58
Sep. 9		
BOZ	iP	02 29 52
	eL	30 26
BUT	iP	02 30 07
	iL	31 10
Sep. 9		
BOZ	iP	02 46 29
	eL	47 29
Sep. 9		
BOZ	iP	03 48 19
	eL	49 15
BUT	iP	03 48 36
	iL	49 42
HH	eP	03 49 09
	iL	50 12
Sep. 9		
COL	iP	05 21 19
Sep. 9		
COL	iP	05 56 00
	i	56 28
	i	56 49
Sep. 9		
TUC	eP	07 02 21
Sep. 9		
HH	e(P)	07 33 31
Sep. 9		
BOZ	iP	15 29 01
	eL	29 47
BUT	iP	15 29 10
	iL	30 20
EUR	iP	15 30 35
	i	31 28
	i	32 06
HH	eP	15 29 46
	iL	30 48
Sep. 9		
COL	eP	16 39 49
EUR	eP	16 40 51
Sep. 9		
EUR	iP	18 30 17
Sep. 9		
EUR	eP	19 01 36
	i	02 11
Sep. 10		
EUR	eP	01 08 04
Sep. 10		
SLC	eP	02 18 26
Sep. 10		
KIP	e	02 44 56
Sep. 10		
BOZ	iP	03 00 30
	eL	01 54
BUT	iP	03 00 42
	eL	01 48
EUR	eP	03 01 40
	eS	02 47
	eL	02 57
HH	iP	03 01 19
	iL	02 34
RC	eP	03 01 22
	i	01 44
	iL	02 41
SLC	eP	03 01 03
	e	01 46
TUC	e(P)	03 03 39
	eL	06 11
Sep. 10		
BUT	iP	03 10 34
	eL	11 30
Sep. 10		
BC	iP	05 48 26
	i	48 39
	i	48 59
COL	iP	05 47 29
	i	47 44
COLU	eP'	05 54 00
EUR	iP	05 48 23C
	i	48 36
	ePKKP	06 05 06
	i	05 29
GUAM	eP	05 40 04
	i	40 23
	e(S)	44 07
	iS	44 23
HONO	eP	05 44 29
HH	iP	05 48 30
	ePP	52 44
	iPKKP	06 05 23
	eL	13 33
KIP	iP	05 44 31
SJ	iP'	05 54 31
	ePKS	58 07
SIT	iP	05 48 40
TUC	eP	05 48 41
	eL	06 19 15
UK	eP	05 47 56
Sep. 10		
TUC	iP	06 05 21
Sep. 10		
EUR	eP	06 13 36
Sep. 10		
SJ	iP	07 16 12
	e	16 36
Sep. 10		
BOZ	iP	08 43 33
	eL	44 36

Date and Station		Phase (GCT)
		h m s
BUT	iP	08 43 47
	eL	44 56
EUR	eP	08 45 02
HH	iP	08 44 22
	iL	45 27
SLC	eP	08 44 29
TUC	e(P)	08 45 41
Sep. 10		
EUR	iP	12 02 48
Sep. 10		
EUR	eP	12 53 02
Sep. 10		
COL	eP	14 11 01
EUR	iP	14 12 56
HH	iP	14 12 14
Sep. 10		
EUR	eP	14 37 19
Sep. 10		
BC	iP	15 54 39
COL	iP	15 51 00
EUR	iP	15 54 20
Sep. 10		
BOZ	iP	16 00 29
	eL	01 44
BUT	iP	16 00 45
	eL	01 50
EUR	eP	16 01 57
HH	iP	16 01 20
	iL	02 24
RC	eP	16 01 41
	i	02 00
	eL	03 12
SLC	eP	15 58 57
	e	16 01 24
Sep. 10		
COL	eP	16 30 52
TUC-T	e(P)	16 34 55
	i	34 58
	eL	35 51
Sep. 10		
EUR	iP	16 50 39

Date and Station		Phase (GCT)
		h m s
Sep. 10		
EUR	iP	16 52 46
Sep. 10		
BOZ	iP	17 19 14
	eL	20 06
EUR	eP	17 20 40
HH	iP	17 20 02
	iL	21 05
RC	e(P)	17 20 53
	eL	21 58
Sep. 10		
BOZ	iP	18 48 19
	eL	49 23
BUT	iP	18 48 30
	eL	49 39
HH	iP	18 49 07
	iL	50 09
SLC	eP	18 49 08
	e	50 14
Sep. 10		
HH	iP	20 42 20
	iL	43 20
Sep. 10		
COL	iP	23 03 47
	i	04 15
EUR	iP	23 07 12
HH	iP	23 06 42
RC	eP	23 07 37
TUC	iP	23 08 02
TUC-T	eP	23 08 02
Sep. 10		
HH	i(P)	23 14 12
Sep. 11		
COL	eP	01 36 47
Sep. 11		
COL	eP	02 44 49
EUR	iP	02 44 25
TUC	iP	02 44 27
TUC-T	iP	02 44 27
Sep. 11		
COL	i(P)	04 27 00
Sep. 11		
BOZ	iP	07 05 23
	eL	06 29

Date and Station		Phase (GCT)
		h m s
BUT	iP	07 05 39
	iL	06 50
HH	iP	07 06 13
	iL	07 17
RC	eP	07 06 58
	eL	08 11
Sep. 11		
BOZ	eP	07 40 39
BUT	iP	07 40 45
	eL	41 47
Sep. 11		
COL	iP	10 46 18
Sep. 11		
BC	eP	11 07 49
BOZ	iP	11 05 48
	iL	06 37
BUT	iP	11 06 02
	eL	07 21
EUR	eP	11 07 04
HH	iP	11 06 37
	iL	07 41
RC	eP	11 07 05
	e	07 20
	eL	08 26
SLC	eP	11 06 35
TUC	e(P)	11 09 14
	eL	12 20
TUC-T	e(P)	11 09 19
	eL	12 05
Sep. 11		
BUT	eP	11 31 36
	eL	32 43
Sep. 11		
COL	eP	12 41 27
EUR	iP	12 41 33
HH	e(P)	12 40 50
TUC	iP	12 41 39
TUC-T	eP	12 41 40
Sep. 11		
COL	eP	14 28 35
EUR	iP	14 28 39

Date and Station		Phase (GCT)
		h m s
HH	iP	14 27 58
TUC-T	iP	14 28 45
Sep. 11		
EUR	e(P)	16 48 13
Sep. 11		
EUR	eP	18 06 25
Sep. 11		
COL	eP	19 55 22
EUR	iP	19 56 15
Sep. 11		
COL	eP	23 19 40
COLU	eP	23 13 46
EUR	e(P)	23 15 53
TUC-T	e(P)	23 14 48
	e	15 06
WASH	iP	23 14 36
Sep. 11		
BOZ	eP	23 32 29
BUT	iP	23 32 44
	eL	33 50
Sep. 12		
EUR	eP	00 44 26
TUC-T	e(P)	00 44 47
Sep. 12		
EUR	iP	01 44 13
	i	45 40
Sep. 12		
BC	eP	01 52 11
	epP	52 37
BUT	eP	01 52 46
	epP	53 14
COLU	eP	01 50 27
	epP	50 52
EUR	iP	01 52 30
	ipP	52 57
HH	iP	01 52 59
	i	53 27
RC	eP	01 52 12
SJ	iP	01 48 15
	ipP	48 41
	e	50 13
TUC	iP	01 51 42
	ipP	52 07

Date and Station		Phase (GCT)
		h m s
TUC-T	eP	01 51 40
	iP	51 42
	ipP	52 07
UK	eP	01 53 20
Sep. 12		
BUT	eP	02 07 44
COL	eP	02 06 11
	eP'	10 54
	eS	16 40
	i	17 38
	i	18 16
	ePKKP	24 46
	eL	27 25
COLU	eP'	02 12 57
EUR	eP	02 07 30
	eP'	10 51
HONO	e(P)	02 04 05
	eS	12 08
	eSS	16 16
	eL	19 00
HH	e(P)	02 07 34
	iP	07 41
	ePP	11 35
SJ	eP'	02 13 29
	iP'	13 38
	e	14 39
SIT	eP	02 06 44
TUC	e(P')	02 12 07
TUC-T	eP'	02 11 37
	iP'	12 11
UK	eP	02 07 10
Sep. 12		
COL	iP	03 00 06
Sep. 12		
BOZ	iP	04 26 07
	eL	27 17
BUT	iP	04 26 20
	eL	27 22
EUR	eP	04 27 34
	i	27 44
HH	iP	04 26 55
	iL	27 57
SLC	eP	04 27 06
Sep. 12		
COL	eP	06 36 51

Date and Station		Phase (GCT)
Sep. 12		h m s
COL	eP	07 08 06
Sep. 12		
COL	eP	07 14 10
HH	eP	07 15 29
Sep. 12		
BC	eP	07 30 52
EUR	e(P)	07 28 30
	iP	28 35
TUC	eP	07 26 35
	e	27 06
	e(S)	28 21
	eL	28 23
TUC-T	eP	07 26 37
	eL	28 28
Sep. 12		
COL	eP	07 52 18
Sep. 12		
COL	eP	08 11 49
Sep. 12		
COL	eP	08 21 26
EUR	eP	08 24 56
	i	25 22
Sep. 12		
COL	eP	09 00 01
Sep. 12		
COL	iP	09 08 56
Sep. 12		
EUR	eP	10 33 24
Sep. 12		
EUR	eP	11 26 29
TUC	eP	11 27 35
Sep. 12		
BC	eP	11 37 55
COL	iP	11 37 05
	i	37 20
	eS	47 34
	e	48 34
	e	49 06
	eL	12 00 20
EUR	eP	11 37 50
	eP'	41 11
HONO	eP	11 34 02
	e(S)	41 00
	iS	41 40
	eL	47 32

Date and Station		Phase (GCT)
		h m s
HH	eP'	11 43 20
SJ	eP'	11 44 06
TUC	e(P)	11 38 13
	ePP	42 04
	eL	12 09 00
TUC-T	eP	11 38 15
	iPP	42 03
Sep. 12		
COL	iP	12 07 55
Sep. 12		
BOZ	eP	12 23 32
	iL	24 06
BUT	iP	12 23 39
	iL	24 15
Sep. 12		
BOZ	eP	12 43 28
	eL	44 14
BUT	eP	12 43 37
	eL	44 16
Sep. 12		
COL	e(P)	13 03 19
Sep. 12		
EUR	eP	13 49 09
Sep. 12		
EUR	eP	14 52 10
Sep. 12		
COL	iP	14 52 32
	i	52 44
EUR	iP	14 53 33
Sep. 12		
EUR	eP	15 29 32
Sep. 12		
COL	iP	15 51 17
EUR	eP	15 52 17
Sep. 12		
BC	eP	17 03 43
COL	iP	17 08 40
EUR	iP	17 04 20
HH	iP	17 05 31
SLC	eP	17 04 23
TUC	iP	17 02 45
	eL	07 11

Date and Station		Phase (GCT)
		h m s
TUC-T	iP	17 02 46
UK	eP	17 04 45
Sep. 12		
COL	iP	21 31 18
	ipP	32 06
EUR	eP	21 33 48
	eP'	37 58
HH	e(P)	21 33 10
THULE	iP	21 30 17
	epP	31 07
Sep. 12		
EUR	eP	21 49 31
Sep. 12		
COL	eP	23 57 05
Sep. 13		
BOZ	iP	01 55 45
	eL	56 54
BUT	iP	01 55 58
	iL	57 00
HH	iP	01 56 35
	iL	57 22
Sep. 13		
EUR	eP	04 02 44
HH	e(P)	04 04 12
TUC-T	eP	04 00 51
	e	01 16
	iL	02 41
Sep. 13		
EUR	e(P)	04 07 22
TUC-T	e(P)	04 07 11
	e	08 07
Sep. 13		
COL	iP	04 50 29
SJ	eP'	04 57 47
Sep. 13		
COL	eP	13 38 02
EUR	eP	13 40 27
TUC-T	eP	13 39 47
Sep. 13		
COL	e(P)	15 50 08
	i	50 18
	i	50 29
EUR	eP	15 53 38

Date and Station		Phase (GCT)
Sep. 13		h m s
COL	eP	18 26 34
EUR	iP	18 25 10
	ipP	25 57
SJ	eP	18 19 32
TUC	eP	18 24 50
TUC-T	eP	18 24 48
Sep. 13		
HH	iP	19 16 52
	iL	17 55
Sep. 13		
COL	iP	19 27 11
HH	eP	19 29 08
Sep. 13		
BC	eP	19 51 53
BOZ	iP	19 49 52
	iL	50 46
BUT	iP	19 50 05
	iS	50 24
	iL	50 56
COL	iP	19 55 32
EUR	eP	19 51 13
HH	iP	19 50 40
	iL	51 41
SLC	eP	19 50 40
	eS	51 24
	eL	52 31
TUC	e(P)	19 52 38
	e	52 44
	eL	56 17
TUC-T	e(P)	19 52 39
	e	52 42
	i	53 34
	iL	56 11
UK	e(P)	19 55 34
BOZ	iP	19 59 22
	eL	20 00 02
BUT	iP	19 59 34
	eL	20 00 10
Sep. 13		
UK	eP	20 31 18
Sep. 13		
BC	eP	20 43 01

Date and Station		Phase (GCT)
		h m s
BOZ	iP	20 40 58
	iL	42 00
BUT	iP	20 41 12
	iL	42 10
COL	iP	20 46 41
EUR	eP	20 42 20
HH	iP	20 41 47
	eL	42 50
SLC	eP	20 41 47
TUC	e(P)	20 43 50
	e	44 35
	eL	47 18
TUC-T	e(P)	20 43 46
	e	44 39
	eL	47 15
Sep. 13		
COL	eP	20 56 09
Sep. 13		
BC	eP	21 26 49
BOZ	iP	21 23 46
	iL	24 52
BUT	iP	21 24 00
	iS	24 20
	iL	24 44
COL	iP	21 29 28
	eL	38 54
EUR	eP	21 25 08
HH	iP	21 24 34
	eL	25 36
SLC	eP	21 24 35
	e	25 33
TUC	e(P)	21 26 38
	eL	30 06
TUC-T	e(P)	21 26 36
	e	27 27
	eL	30 03
Sep. 13		
TUC-T	iP	21 33 53
Sep. 13		
BOZ	iP	21 39 10
	iL	40 09
BUT	iP	21 39 24
	iL	40 25

Date and Station		Phase (GCT)
		h m s
HH	iP	21 39 58
	eL	41 02
Sep. 13		
COL	eP	22 53 17
	i	53 28
EUR	eP'	22 58 48
GUAM	iP	22 45 14
Sep. 13		
HH	eP	22 51 15
	iL	52 20
Sep. 13		
BOZ	iP	23 00 40
	eL	01 15
BUT	iP	23 00 54
	eL	01 29
Sep. 13		
BOZ	iP	23 40 00
	iL	41 08
BUT	iP	23 40 14
	eL	41 10
EUR	eP	23 41 25
HH	iP	23 40 49
	iL	41 53
SLC	eP	23 40 51
	e	41 36
TUC	e(P)	23 43 48
	eL	46 26
TUC-T	e(P)	23 43 17
	eL	46 17
Sep. 14		
COL	iP	01 29 43
EUR	iP	01 33 22
	ipP	33 52
Sep. 14		
HH	iP	01 38 48
	iL	39 51
Sep. 14		
COL	iP	02 14 26
Sep. 14		
BOZ	iP	02 32 45
	eL	33 48
EUR	eP	02 34 17
HH	iP	02 33 33
	iL	34 36

Date and Station		Phase (GCT)
Sep. 14		h m s
BOZ	iP	03 19 38
	eL	20 40
HH	iP	03 20 25
	iL	21 30
Sep. 14		
BOZ	iP	03 56 15
	eL	57 20
BUT	iP	03 56 28
	iL	57 30
HH	iP	03 58 02
	iL	59 05
Sep. 14		
COL	eP	04 29 28
TUC-T	eP	04 28 53
Sep. 14		
BOZ	iP	04 52 32
	eL	53 40
EUR	eP	04 54 03
HH	iP	04 53 19
	iL	54 22
Sep. 14		
COL	e(P)	06 16 57
Sep. 14		
BOZ	iP	06 23 15
	iL	24 20
BUT	iP	06 23 28
	iL	24 25
EUR	eP	06 24 45
HH	iP	06 24 03
	iL	25 06
SLC	eP	06 24 03
TUC	e(P)	06 26 14
	eL	29 37
TUC-T	e(P)	06 26 12
	eL	29 48
Sep. 14		
BOZ	iP	06 40 40
	eL	41 38
HH	iP	06 41 28
	iL	42 31
Sep. 14		
COL	iP	08 53 35
EUR	iP	08 55 35

Date and Station		Phase	(GCT)
			h m s
GUAM	iP		08 44 02
	iS		44 50
HH	iP		08 55 28
TUC	eP		08 56 05
TUC-T	eP		08 56 06
Sep. 14			
BC	eP		09 37 10
	e		37 45
	e		39 48
BOZ	iP		09 35 08
	iL		36 37
BUT	iP		09 35 20
	iS		35 40
	iL		36 24
COL	iP		09 40 51
	eL		49 03
EUR	iP		09 36 28
	i		36 32
HH	iP		09 35 55
	iL		36 57
SLC	iP		09 35 58
	iL		36 48
SIT	eP		09 39 24
	eL		45 13
TUC	iP		09 37 55
	e		38 46
	eL		41 28
TUC-T	eP		09 37 55
	e		38 53
	eL		41 24
Sep. 14			
BOZ	iP		10 15 34
	eL		16 45
BUT	iP		10 15 46
	iL		16 47
HH	iP		10 16 21
	iL		17 29
Sep. 14			
EUR	eP		11 18 37
Sep. 14			
SJ	iP		12 27 15
	i		27 37
Sep. 14			
BC	eP		13 28 22
BUT	iP		13 28 57
COL	iP		13 28 58
	e		39 59
	eL		54 16

Date and Station		Phase	(GCT)
			h m s
EUR	iP		13 28 27
GUAM	eP		13 25 22
HH	eP		13 28 58
	ePP		32 45
KIP	eP		13 24 39
SLC	eP		13 28 46
TUC	iP		13 28 26
TUC-T	iP		13 28 27
	e(P'P')		54 51
	e		55 12
UK	eP		13 28 07
Sep. 14			
BOZ	iP		13 36 26
	eL		37 24
BUT	iP		13 36 40
	iL		37 33
COL	eP		13 42 07
EUR	eP		13 37 49
HH	iP		13 37 13
	iL		38 20
SLC	eP		13 37 20
Sep. 14			
BC	iP		14 22 30C
BOZ	eP		14 23 10C
	e(PP)		27 00
BUT	eP		14 23 04C
COL	iP		14 23 09C
	iPP		27 03
	e		32 18
	iSKS		33 57
	iPPS		36 16
	e		40 07
	eP'P'		48 10
	eL		54 30
COLU	eP'		14 28 50
EUR	iP		14 22 36C
GUAM	iP		14 19 18C
HONO	eP		14 19 01
	i		19 20
	e		24 42
	eS		26 28
	eL		32 10
	eT		15 14 58
HH	eP		14 23 07C
	ePP		27 06
	ePS		35 38
	ePKKP		40 00

Date and Station		Phase	(GCT)
			h m s
HH	eP'P'		14 48 18
KIP	iP		14 19 01D
SLC	iP		14 22 51C
	e		23 27
SJ	iP'		14 28 27D
	e		28 47
	ePP		29 49
	i		32 24
	ePS		39 07
	iPS		39 24
SIT	eP		14 22 57C
	e		23 29
TUC	iP		14 22 32C
	e(PP)		26 13
	iS		33 00
	e(SS)		37 26
	eL		47 41
TUC-T	iP		14 22 33C
UK	iP		14 22 17C
	e(S)		32 07
	i		33 14
	eL		43 12
Sep. 14			
KIP	eP		14 24 54
TUC-T	eP		14 33 12
Sep. 14			
BC	eP		14 44 38
COL	iP		14 49 35
EUR	iP		14 45 14
TUC	iP		14 43 41
	e		48 30
TUC-T	iP		14 43 41
	eP'P'		15 11 33
UK	eP		14 45 45
Sep. 14			
TUC-T	eP		14 48 26
	e		48 51
Sep. 14			
COL	iP		15 12 10
GUAM	eP		15 08 22
KIP	eP		15 08 03
Sep. 14			
TUC-T	eP		16 01 46
Sep. 14			
TUC-T	eP		16 08 57
Sep. 14			
COL	eP		16 35 30

Date and Station		Phase	(GCT)
			h m s
TUC-T	eP		16 34 53
Sep. 14			
TUC	eP		16 50 32
	i		50 35
	eL		51 24
TUC-T	e(P)		16 50 20
	e		50 37
	eL		51 28
Sep. 14			
COL	eP		16 59 01
Sep. 14			
COL	eP		17 09 43
TUC-T	eP		17 09 04
Sep. 14			
BC	eP		17 19 03
BUT	eP		17 19 39
COL	iP		17 19 43
	ePP		23 34
EUR	iP		17 19 10
GUAM	eP		17 15 54
	iP		15 57
HONO	eP		17 15 36
HH	eP		17 19 47
KIP	eP		17 15 36
TUC	iP		17 19 07
	iS		29 36
	eL		36 07
TUC-T	iP		17 19 06
	eP'P'		45 03
UK	eP		17 18 52
SEP. 14			
BUT	eP		17 32 52
COL	iP		17 29 43
	i		30 10
EUR	iP		17 33 07
HH	iP		17 32 38
TUC-T	iP		17 33 56
	e		34 24
Sep. 14			
BC	eP		17 39 03
Sep. 14			
COL	iP		17 51 27
TUC-T	eP		17 50 49

B-4297-4.

Date and Station		Phase (GCT) h m s
Sep. 14		
TUC	e(P)	19 22 30
	e	22 41
TUC-T	eP	19 22 31
	i	22 42
Sep. 14		
TUC-T	eP	19 47 53
Sep. 14		
EUR	eP	20 32 10
Sep. 14		
COL	eP	20 40 39
TUC	e(P)	20 40 03
TUC-T	eP	20 40 02
	i	40 03
Sep. 14		
BUT	eP	22 37 18
COL	iP	22 37 23
	ePP	41 16
	eS	47 53
	e	48 40
	e	50 08
	e	51 06
	eL	23 08 14
EUR	iP	22 36 49
GUAM	iP	22 33 36
HONO	eP	22 33 16
	i	33 27
	eS	41 06
	eL	49 36
HH	eP	22 37 28
	ePP	41 24
KIP	eP	22 33 15
SIT	eP	22 30 40
	e	31 10
TUC	eP	22 36 45
	i	36 55
	ePP	40 16
	eS	47 32
	eL	23 04 00
TUC-T	iP	22 36 45
	ePKKP	54 34
Sep. 15		
COLU	eP	00 09 37
Sep. 15		
EUR	eP	01 23 30
TUC-T	eP	01 23 29
Sep. 15		
COL	eP	01 44 29
EUR	eP	01 43 55
TUC	e(P)	01 44 10
TUC-T	iP	01 43 51
	e	44 30

Date and Station		Phase (GCT) h m s
Sep. 15		
COL	eP	01 54 57
EUR	iP	01 54 36
TUC	iP	01 54 36
TUC-T	iP	01 54 37
Sep. 15		
EUR	eP	02 37 09
TUC	eP	02 37 11
TUC-T	eP	02 37 07
Sep. 15		
TUC-T	eP	03 03 51
	i	03 56
	i(S)	04 30
	iL	04 36
Sep. 15		
TUC-T	eP	04 29 29
	e	29 51
Sep. 15		
GUAM	iP	04 46 16
	i	46 31
	i	47 13
	i(S)	47 22
	iL	49 40
Sep. 15		
COL	iP	04 51 00
	iS	51 24
	iL	51 30
Sep. 15		
COL	eP	05 04 04
EUR	eP	05 06 34
HH	iP	05 06 13
Sep. 15		
EUR	eP	05 45 31
Sep. 15		
BOZ	eP	06 06 03
EUR	eP	06 07 36
Sep. 15		
COL	eP	06 11 39
EUR	eP	06 11 04
TUC-T	iP	06 11 03
	i	11 13
Sep. 15		
BC	eP	06 12 29D
	e	13 34
	e(PP)	16 23
BOZ	eP	06 13 07C
	ePP	16 58
	eSS	30 38
	eP'P'	38 18
	eL	48 28

Date and Station		Phase (GCT) h m s
BUT	eP	06 13 04D
	ePP	16 50
COL	iP	06 13 09D
	i	13 40
	iPP	17 05
	eS	24 26
	i(PPS)	25 56
	eL	41 04
EUR	iP	06 12 35D
GUAM	e(P)	06 09 20
	i	09 27
	ePPP	12 50
	eS	17 28
HONO	eP	06 08 59
	iS	16 32
	iL	20 16
HH	eP	06 13 05C
	ePP	16 58
	eSKS	23 30
	ePPS	25 44
	ePKKP	30 03
KIP	eP	06 08 59
SLC	eP	06 12 51
SJ	eP'	06 18 28
	e	18 36
	ePP	20 13
	ePKKP	28 52
SIT	eP	06 12 54
TUC	iP	06 12 30D
	iPP	16 03
	iS	23 04
	eL	36 26
	eP'P'	38 19
	iP'P'	38 35
TUC-T	iP	06 12 31D
	iP'P'	38 36
UK	eP	06 12 13D
	iP	12 16D
	eS	22 50
	ePKKP	30 04
	e(P'P')	39 08
	eL	40 13
Sep. 15		
EUR	eP	06 16 27
KIP	eP	06 12 57
Sep. 15		
COL	eP	06 22 04
EUR	eP	06 21 30
TUC	eP	06 21 26
	i	22 30

Date and Station		Phase (GCT) h m s
TUC-T	eP	06 21 27
Sep. 15		
BC	eP	06 30 17
COL	iP	06 30 57
	ePP	34 52
EUR	eP	06 30 23
HONO	eP	06 27 02
KIP	eP	06 26 52
TUC	iP	06 30 18
TUC-T	iP	06 30 19
Sep. 15		
EUR	iP	06 35 50
Sep. 15		
COL	iP	06 54 25
TUC	eP	06 53 47
Sep. 15		
TUC	iP	07 34 47
TUC-T	iP	07 34 48
Sep. 15		
COL	iP	08 13 54
EUR	iP	08 13 20
KIP	eP	08 09 46
TUC	eP	08 13 16
	e	13 32
TUC-T	iP	08 13 18
	i	13 33
Sep. 15		
BOZ	eP	08 44 52
BUT	iP	08 44 59
	iL	45 58
EUR	eP	08 46 10
HH	iP	08 45 35
	iL	46 35
Sep. 15		
BOZ	iP	09 26 18
	eL	26 53
BUT	iP	09 26 28
	iL	27 27
Sep. 15		
KIP	iP	09 57 39
Sep. 15		
COL	eP	11 02 16

8-4297-4

Date and Station		Phase (GCT) h m s
EUR	eP	11 01 37
TUC	eP	11 07 33
TUC-T	iP	11 01 34
Sep. 15		
EUR	eP	11 13 31
HONO	eP	11 13 22
KIP	iP	11 13 23
	i	15 17
Sep. 15		
BC	eP	11 17 07
	epP	19 12
	eS	26 39
BOZ	eP	11 17 43C
	epP	19 53
	ePP	21 28
BUT	iP	11 17 39
	epP	19 50
COL	iP	11 17 32
	ipP	19 45
	iSKS	27 08
	iS	27 34
	esS	31 20
	iPKKP	35 03
EUR	iP	11 17 11
	ipP	19 20
	iPP	20 39
	e(PKKP)	34 30
	i	35 24
	i	36 15
	iP'P'	43 15
	ipP'P'	45 32
GUAM	iP	11 13 36
	iPcP	14 49
	iPP	15 57
	isP	16 39
	iScP	17 47
	iScS	22 29
HONO	eP	11 17 39
HH	iP	11 17 40
	ipP	19 49
	eSKS	27 15
	ePKKP	35 00
	eSKP'P'	45 27
KIP	iP	11 17 40
SLC	iP	11 17 29
	ePP	19 39
SJ	iP'	11 23 16
	iPP	24 38
	e(pP')	25 55
	eSKS	29 20
	e	30 38
	iPKKP	33 41

Date and Station		Phase (GCT) h m s
SJ	i	11 33 46
SIT	eP	11 17 22
TUC	iP	11 17 12
	ipP	19 21
	isP	20 17
	iS	26 42
	eSS	32 34
	ePKKP	35 17
	eP'P'	43 19
	eSKPP'	45 44
TUC-T	iP	11 17 12
	ipP	19 20
	ePKKP	35 16
	eP'P'	43 16
	iSKPP'	45 51
UK	iP	11 16 49
	ipP	18 54
Sep. 15		
EUR	iP	11 37 35
	i	38 25
Sep. 15		
COL	iP	12 13 49
EUR	iP	12 13 13
	i	13 25
TUC	eP	12 13 09
TUC-T	iP	12 13 10
	i	13 22
Sep. 15		
EUR	eP	12 21 45
Sep. 15		
EUR	eP	12 28 49
TUC-T	eP	12 28 45
Sep. 15		
COL	iP	13 07 24
EUR	iP	13 07 03
TUC	iP	13 07 04
TUC-T	iP	13 07 04
Sep. 15		
EUR	eP	13 28 16
TUC-T	eP	13 28 13
Sep. 15		
COL	iP	13 43 03
	i	43 32
EUR	iP	13 46 30
HH	eP	13 45 58
TUC-T	eP	13 47 30

Date and Station		Phase (GCT) h m s
Sep. 15		
COL	iP	13 47 03
Sep. 15		
BC	eP	13 59 06
COL	iP	13 59 47
EUR	iP	13 59 14
KIP	iP	13 55 39
TUC	eP	13 59 10
TUC-T	iP	13 59 10
Sep. 15		
COL	eP	14 12 23
EUR	eP	14 11 56
TUC-T	eP	14 11 58
Sep. 15		
COL	eP	14 17 09
EUR	eP	14 16 35
TUC-T	eP	14 16 31
Sep. 15		
COL	iP	15 16 08
EUR	iP	15 19 24
TUC-T	eP	15 20 27
Sep. 15		
EUR	eP	15 42 38
TUC-T	eP	15 42 31
	i	42 43
Sep. 15		
EUR	eP	15 50 54
Sep. 15		
COL	eP	16 18 40
Sep. 15		
EUR	iP	19 49 06
TUC-T	iP	19 49 02
Sep. 15		
BUT	eP	22 06 10
	eL	07 09
EUR	eP	22 07 29
Sep. 15		
COL	e(P)	22 48 13
EUR	eP	22 47 38
TUC	iP	22 47 34
TUC-T	iP	22 47 35

Date and Station		Phase (GCT) h m s
Sep. 16		
EUR	iP	00 17 15
	i	19 05
UK	iP	00 15 53
	iS	16 12
	iL	16 17
Sep. 16		
COL	iP	01 09 49
EUR	eP	01 13 26
	i	13 39
Sep. 16		
EUR	eP	01 41 33
TUC	iP	01 41 33
TUC-T	iP	01 41 34
Sep. 16		
TUC	eP	02 02 50
TUC-T	eP	02 02 50
Sep. 16		
COL	eP	02 17 06
EUR	eP	02 16 31
TUC	eP	02 16 28
TUC-T	iP	02 16 28
	i	16 42
Sep. 16		
EUR	eP	02 23 05
TUC-T	iP	02 23 06
Sep. 16		
COL	eP	02 49 30
EUR	iP	02 48 57
	i	49 01
TUC	eP	02 48 52
TUC-T	eP	02 48 53
	i	49 05
Sep. 16		
COL	iP	02 58 30
	iS	59 25
	iL	59 33
EUR	eP	03 03 26
Sep. 16		
TUC	e(P)	03 12 21
TUC-T	eP	03 12 08
Sep. 16		
EUR	eP	03 29 10

8-4297-4

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

8-4297-4

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

Date and Station		Phase (GCT) h m s
SJ	eP	21 29 28
	e	29 46
	e(S)	33 17
	eS	33 32
TUC	e(P)	21 30 12
TUC-T	iP	21 30 12
	iPcP	33 28
UK	iP	21 32 11
	epP	32 31
WASH	iP	21 30 26
Sep. 17		
COL	eP	22 17 27
Sep. 17		
BC	eP	22 16 00
	e	16 24
	e	16 59
	e(S)	17 05
	iL	17 23
BOZ	eP	22 18 27
BUT	eP	22 18 21
	eL	22 47
COL	iP	22 22 21
COLD	eP	22 20 40
EUR	eP	22 16 51
HH	eP	22 18 50
	eL	24 00
RC	eP	22 18 29
	e(S)	22 02
	eL	23 09
TUC	eP	22 15 35
	i	15 44
TUC-T	iP	22 15 36
Sep. 17		
BC	e(P)	22 40 53
EUR	eP	22 41 01
	eL	43 37
TUC	e(P)	22 39 52
	iP	39 55
	eL	40 41
TUC-T	iP	22 39 52
	i	40 02
	eL	40 38
Sep. 17		
EUR	e(P)	23 02 48
TUC	e(P)	22 58 02
	iP	58 06
	eL	58 40

Date and Station		Phase (GCT) h m s
TUC-T	e(P)	22 58 03
	iP	58 06
	iL	58 45
Sep. 17		
TUC	eP	23 20 05
TUC-T	iP	23 20 06
	e	20 43
Sep. 18		
EUR	eP	01 43 36
	i	44 58
Sep. 18		
TUC	e(P)	02 58 07
Sep. 18		
EUR	eP	03 17 38
TUC-T	eP	03 17 37
Sep. 18		
BC	eP	06 50 54
EUR	eP	06 51 09
TUC	eP	06 49 47
	i	49 58
	eL	50 35
TUC-T	eP	06 49 49
	i	50 02
	eL	50 41
Sep. 18		
COL	iP	07 16 00
EUR	iP	07 11 51
	i	12 07
HH	iP	07 12 49
RC	e(P)	07 12 22
TUC	eP	07 10 29
	eL	16 10
TUC-T	iP	07 10 31
	eL	16 12
Sep. 18		
COL	eP	09 38 05
EUR	eP	09 37 31
TUC	iP	09 37 27
Sep. 18		
TUC	eP	10 55 45
Sep. 18		
BOZ	eP'	12 20 15
COL	eP'	12 21 00
	i	21 08
EUR	eP'	12 20 09

Date and Station		Phase (GCT) h m s
HH	iP	12 20 18
	e(PP)	23 35
RC	eP'	12 20 04
	iP'	20 06
	ePP	21 23
SLC	eP'	12 20 08
SJ	iP	12 13 39
SIT	eP'	12 20 48
TUC	eP'	12 19 54
	ePKKP	30 36
Sep. 18		
EUR	eP	12 30 04
Sep. 18		
BOZ	iP	16 24 41
	eL	25 18
BUT	iP	16 24 50
	eL	25 27
Sep. 18		
COL	iP'	17 04 58
	ePP	05 54
EUR	e(P)	17 06 08
Sep. 18		
BC	eP	17 05 36
	e	06 30
TUC	iP	17 04 54
	iS	05 32
	iL	05 38
TUC-T	eP	17 04 47
	i	04 59
	eL	05 39
Sep. 18		
TUC	eP	17 23 20
	eL	24 01
TUC-T	eP	17 23 21
	eL	24 15
Sep. 18		
BOZ	eP	17 54 42
	eL	55 42
BUT	iP	17 54 52
	eL	55 53
EUR	eP	17 55 57
HH	iP	17 55 27
	iL	56 36
RC	eP	17 56 11
	eL	57 29
SLC	eP	17 55 28
	eL	56 16

Date and Station		Phase (GCT) h m s
Sep. 18		
TUC	e(P)	18 22 30
TUC-T	eP	18 22 29
	e	22 34
	eL	23 26
Sep. 18		
BOZ	eP	20 35 07
	eL	36 06
EUR	eP	20 36 41
Sep. 18		
BOZ	eP	22 16 28
Sep. 19		
RC	eP	02 14 02
Sep. 19		
SJ	eP	03 23 30
Sep. 19		
COL	eP	04 19 39
EUR	eP	04 22 43
RC	eP	04 23 07
	e	23 20
Sep. 19		
SJ	iP	04 40 40
	iS	41 12
	iL	41 14
Sep. 19		
TUC	eP	06 10 15
TUC-T	eP	06 10 15
Sep. 19		
COL	eP	08 15 30
Sep. 19		
EUR	eP	09 29 53
HH	e(P)	09 30 23
Sep. 19		
EUR	eP	10 24 39
TUC	eP	10 24 08
TUC-T	iP	10 24 10
Sep. 19		
EUR	eP	13 48 58
	i	49 50
HH	iP	13 49 24
RC	eP	13 48 40
TUC	iP	13 48 10
TUC-T	iP	13 48 10
Sep. 19		
BOZ	eP	15 58 53
	eL	59 43

Date and Station		Phase	(GCT) h m s
Sep. 19			
BOZ	eP		15 58 53
	eL		59 43
BUT	iP		15 58 12
	eL		59 15
EUR	eP		16 00 31
Sep. 19			
BC	eP		16 17 44
	e		18 53
COL	eP		16 14 53
EUR	eP		16 18 33
Sep. 19			
BOZ	eP		17 26 33
	eL		27 38
BUT	iP		17 26 40
	eL		27 41
EUR	eP		17 27 53
HH	iP		17 27 16
	iL		28 16
RC	eP		17 28 14
	e		29 33
SLC	eP		17 27 26
Sep. 19			
TUC	eP		18 21 13
Sep. 19			
EUR	eP		18 36 44
	i		36 57
Sep. 19			
EUR	eP		18 56 37
	i		57 12
Sep. 19			
BOZ	iP		21 53 53
	eL		55 00
BUT	iP		21 54 06
	eL		55 09
EUR	eP		21 55 10
	eS		56 20
	eL		56 35
HH	iP		21 54 40
	iL		55 45
RC	e(P)		21 55 06
	e		55 17
	eL		56 26
SLC	eP		21 54 44
	eL		55 35
Sep. 19			
TUC	e(P)		22 00 10

Date and Station		Phase	(GCT) h m s
Sep. 19			
COL	eP		23 24 34
Sep. 20			
EUR	eP		00 36 45
Sep. 20			
BC	iP		02 31 55
	iL		32 58
EUR	eP		02 32 35
Sep. 20			
BH	iP		05 40 19
	iS		41 04
Sep. 20			
EUR	eP		06 13 52
Sep. 20			
BH	iP		06 06 41
	iS		07 25
Sep. 20			
COL	eP		06 13 50
Sep. 20			
BC	eP		06 16 51
COL	iP		06 20 25
	eS		30 50
	e(SS)		35 44
	eL		47 15
EUR	iP		06 17 19
HONO	e(P)		06 17 54
	eS		25 44
	i		26 20
	eL		30 20
HH	eP		06 18 19
RC	eP		06 17 57
SLC	eP		06 17 27
TUC	eP		06 16 23
	ePP		18 02
	eL		33 44
Sep. 20			
BH	iP		06 24 24
Sep. 20			
HH	eP		06 56 12
Sep. 20			
COL	iP		08 22 37
	i		23 50
	iL		24 25
Sep. 20			
TUC	e(P)		11 17 10
Sep. 20			
EUR	eP		14 59 09

Date and Station		Phase	(GCT) h m s
Sep. 20			
BOZ	eP		16 16 09
	eL		17 13
EUR	eP		16 17 36
RC	e(P)		16 18 18
	e		19 12
Sep. 20			
TUC-T	eP		20 50 51
Sep. 20			
BOZ	eP		20 57 06
	eL		58 09
BUT	iP		20 57 18
	eL		58 20
RC	eP		21 00 06
Sep. 20			
EUR	eP		21 05 52
Sep. 20			
EUR	iP		23 28 42
Sep. 20			
BUT	eP		23 29 31
EUR	i(P)		23 29 14
HH	iP		23 29 43
	epP		30 09
RC	iP		23 28 59
	epP		29 24
SJ	eP		23 25 07
	epP		25 17
TUC	iP		23 28 25
	ePP		30 22
TUC-T	iP		23 28 25
	iPP		30 23
Sep. 20			
BC	eP		23 34 19
TUC	e(P)		23 34 04
	i		34 13
	e(S)		34 55
	eL		35 04
TUC-T	e(P)		23 33 58
	i		34 14
	eS		34 55
	eL		35 04
Sep. 21			
EUR	eP		01 19 43
TUC	e(P)		01 19 07
	i		19 17
	eL		20 24
TUC-T	e(P)		01 19 03

Date and Station		Phase	(GCT) h m s
TUC-T	i		19 18
	eL		20 20
Sep. 21			
COL	iP		02 21 19
	e(S)		32 02
	e		36 00
	eL		52 30
EUR	eP		02 22 19
HH	eP		02 22 25
KIP	eP		02 18 44
RC	e(P)		02 23 00
Sep. 21			
COL	iP		02 51 48
EUR	eP		02 51 20
TUC	iP		02 51 19
	eL		03 03 38
TUC-T	iP		02 51 20
Sep. 21			
COL	eP		05 22 16
Sep. 21			
EUR	eP		05 39 53
HH	i(P)		05 39 34
Sep. 21			
EUR	eP		07 48 48
COL	iP		07 43 20
	i(S)		44 37
	eL		44 54
Sep. 21			
EUR	eP		08 27 52
Sep. 21			
COL	eP		11 27 07
EUR	eP		11 24 30
HH	e(P)		11 27 12
TUC	eP		11 24 32
	e		26 44
TUC-T	e(P)		11 24 18
	e		24 32
	i		26 38
Sep. 21			
COL	iP		12 30 45
EUR	eP		12 33 24
HH	eP		12 32 40
RC	eP		12 33 06

B-4297-A

Date and Station		Phase (GCT) h m s
Sep. 21		
EUR	eP'	13 28 36
HH	eP'	13 29 50
TUC-T	e(PP)	13 31 37
Sep. 21		
COL	iP	15 03 03
	iS	03 51
	iL	04 04
EUR	eP	15 11 31
Sep. 21		
HH	e(P)	15 39 54
Sep. 21		
BC	eP	16 23 40
COL	iP	16 17 43
	e(S)	18 54
	eL	16 19 09
EUR	iP	16 23 10
HH	iP	16 22 16
	eL	31 37
RC	eP	16 23 28
	e	23 33
TUC-T	eP	16 24 20
	e	24 37
Sep. 21		
COL	iP	18 36 47
	iL	37 30
Sep. 21		
TUC	e(P)	21 14 07
TUC-T	e(P)	21 14 02
	i	14 09
	eL	14 43
Sep. 22		
BUT	eP	00 41 40
	eL	42 35
Sep. 22		
COL	e(P)	01 21 40
	eL	23 05
EUR	eP	01 27 06
Sep. 22		
COL	e(P)	02 49 43
	iL	51 14
EUR	eP	02 55 29
Sep. 22		
BUT	iP	03 49 40
	iL	50 40
EUR	eP	03 41 01

Date and Station		Phase (GCT) h m s
Sep. 22		
HH	eP	05 06 04
Sep. 22		
RC	eP	06 05 39
	e	06 37
Sep. 22		
BC	eP	07 53 26
	e	53 39
COL	iP	07 49 29
	eL	53 48
EUR	iP	07 53 01
	i	53 16
	i	53 24
HH	iP	07 52 28
RC	iP	07 53 41
SJ	eP	07 58 13
	i	58 26
SIT	eP	07 50 07
TUC-T	iP	07 54 07
	i	54 19
Sep. 22		
EUR	iP	08 34 19
Sep. 22		
EUR	eP	11 18 23
HH	iP	11 17 54
	iL	19 00
Sep. 22		
COL	eP	11 56 41
EUR	eP	11 56 12
HH	e(P)	11 56 56
TUC-T	eP	11 56 10
	i	56 22
Sep. 22		
EUR	iP	12 19 45
COL	e(P)	13 17 08
Sep. 22		
EUR	eP	15 10 40
Sep. 22		
EUR	iP	17 21 36
Sep. 22		
SLC	eP	19 31 33
	eL	32 31
Sep. 22		
HH	iP	19 50 42
	iL	51 49

Date and Station		Phase (GCT) h m s
Sep. 23		
EUR	eP	00 42 55
	i	43 02
Sep. 23		
SJ	e(P)	01 15 50
Sep. 23		
SJ	eP	05 36 38
Sep. 23		
COL	iP	09 14 04
EUR	eP	09 17 21
Sep. 23		
BH	iP	09 39 11C
	iS	39 56
EUR	eP	09 47 03
SJ	eP	09 42 12
	i	42 20
	ePcP	45 06
Sep. 23		
COL	iP	10 44 42
	eS	49 23
	eL	52 22
EUR	iP	10 48 32
HH	iP	10 47 25
RC	iP	10 48 05
	i	48 13
THULE	eP	10 43 37
TUC	eP	10 49 25
TUC-T	iP	10 49 24
	i	49 32
	ePcP	50 12
Sep. 23		
HH	i(P)	11 13 43
Sep. 23		
EUR	eP	12 14 39
HH	i(P)	12 12 47
Sep. 23		
SIT	iP	12 22 20
	iS	22 39
	iL	22 41
Sep. 23		
COL	eP	13 31 39
Sep. 23		
HH	e(P)	16 51 37
Sep. 23		
BUT	iP	20 05 08
	iL	06 09

Date and Station		Phase (GCT) h m s
Sep. 23		
RC	eP	22 33 43
Sep. 23		
BUT	eP	22 35 05
COL	iP	22 32 18
EUR	iP	22 35 14
HH	iP	22 34 49
RC	eP	22 35 38
SLC	eP	22 35 23
THULE	eP	22 34 03
TUC-T	eP	22 35 55
Sep. 23		
EUR	e(P)	23 17 46
Sep. 24		
EUR	iP	01 18 25
	i	19 38
TUC	e(P)	01 16 50
	e	16 57
	e	18 10
TUC-T	eP	01 16 51
	e	16 57
	i	18 11
Sep. 24		
EUR	eP	02 27 43
Sep. 24		
EUR	eP	02 42 46
Sep. 24		
EUR	eP	03 41 43
Sep. 24		
EUR	eP	04 19 00
Sep. 24		
BUT	eP	05 52 23
COL	iP	05 49 20
	e(S)	54 11
	eL	57 55
EUR	iP	05 53 09
HH	iP	05 52 03
RC	iP	05 53 42
THULE	eP	05 48 10
TUC	eP	05 54 02
TUC-T	iP	05 54 02
WASH	eP	05 53 26

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

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

B-4297-4

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

Date and Station		Phase (GCT)
		h m s
RC	iP	15 45 40
SLC	eP	15 45 08
TUC	iP	15 44 44
	eL	16 11 00
TUC-T	iP	15 44 48
	ePP	48 31
UK	eP	15 44 26
Sep. 29		
COL	eP	15 54 50
EUR	eP	15 54 17
GUAM	eP	15 51 08
RC	eP	15 54 52
TUC	iP	15 54 15
TUC-T	iP	15 54 13
	ePP	57 55
Sep. 29		
RC	eP	16 11 43
Sep. 29		
EUR	iP	17 20 44
TUC-T	iP	17 20 40
Sep. 29		
TUC-T	iP	17 36 10
Sep. 29		
EUR	eP	17 51 15
Sep. 29		
COL	e(P)	20 12 43
Sep. 30		
BC	eP	01 38 20
BOZ	iP	01 36 16
	iL	37 34
BUT	iP	01 36 30
	iL	37 34
COL	eP	01 41 59
EUR	eP	01 37 39
	eS	38 54
	eL	39 12
HH	iP	01 37 04
	eL	38 04
RC	eP	01 37 26
	i	37 38
	eL	38 46
SLC	eP	01 37 07
	eS	37 43
	eL	38 10

Date and Station		Phase (GCT)
		h m s
TUC	eP	01 39 16
	e	39 55
	eL	42 40
TUC-T	eP	01 39 05
	e	39 40
	eL	42 36
Sep. 30		
COL	eP	03 40 31
EUR	eP	03 43 07
HH	eP	03 42 46
Sep. 30		
EUR	eP	05 09 15
TUC	eP	05 09 15
TUC-T	eP	05 09 12
	i	09 16
Sep. 30		
BOZ	eP	09 17 35
Sep. 30		
COL	eP	10 37 02
Sep. 30		
EUR	eP	11 00 02
HH	eP	10 59 25
	iL	11 00 22
Sep. 30		
RC	eP	11 00 13
	e	01 23
	e	01 37
Sep. 30		
SJ	iP	12 22 39
	i	22 57
Sep. 30		
COL	eP	13 45 00
EUR	eP	13 44 25
TUC	iP	13 44 21
TUC-T	iP	13 44 22
Sep. 30		
COL	e(P)	14 28 19
Sep. 30		
COL	e(P)	15 10 06
EUR	iP	15 06 18
TUC-T	eP	15 06 45
Sep. 30		
EUR	eP	16 12 44
Sep. 30		
EUR	eP	16 40 19

Date and Station		Phase (GCT)
Sep. 30		h m s
EUR	iP	16 43 20
Sep. 30		
SJ	eP	17 07 27
Sep. 30		
SLC	eP	19 28 23
	eL	29 29
Sep. 30		
EUR	eP	19 41 41
Sep. 30		
BC	eP	20 39 09
COL	iP	20 38 58
EUR	iP	20 39 06
	i	39 34
	ePKKP	56 34
GUAM	eP	20 33 29
HH	eP	20 39 29
SJ	eP'	20 45 10
TUC	eP	20 39 16
UK	eP	20 38 44
Sep. 30		
COL	iP	20 45 56

Date and Station	Phase (GCT)
	h m s

8-4297-4.

Date and Station	Phase (GCT)
	h m s
Local and Minor Earthquakes	
Sep.	
BOZ	
2	22.4
3	01.6
	22.4
5	16.6
6	16.2
8	02.0
10	02.1
	03.2
11	03.5
12	05.6
13	19.3
	22.8
14	01.6
	07.3
	12.4
15	22.1
17	05.8
	12.6
	16.6
	16.8
22	06.1
	11.3
	19.8
23	03.1
	18.9
25	03.0
	14.4
	17.5
	23.5
26	09.0
27	01.9
	17.2
28	10.0
30	11.0
Sep.	
BUT	
9	18.4
11	03.5
	08.0
	20.8
12	01.9
	12.7
15	22.3
16	09.6
	09.8
17	16.8
18	00.3
	01.7
	05.8
	12.6
	20.6
	22.3
19	04.6
20	19.1
	21.5
21	13.6
	15.4
	19.4
22	06.1
	11.3
25	03.0
	12.7

Date and Station	Phase (GCT)
	h m s
BUT	
25	14.4
27	07.3
	17.2
28	11.5
30	05.2
	09.3
	11.0
Sep.	
COL	
3	00.3
	03.4
	13.4
5	18.3
6	04.5
	05.0
7	20.2
8	12.8
	13.7
9	13.3
	21.6
12	01.8
	18.2
13	23.7
15	04.8
	18.1
16	21.4
17	09.3
18	03.4
19	08.3
	10.7
21	08.6
	08.7
24	16.2
	18.9
26	05.0
27	20.0
28	10.4
30	15.3
Sep.	
EUR	
1	19.6
7	17.1
8	03.1
	14.4
9	23.2
10	15.5
	16.4
	16.5
	18.4
11	13.0
15	16.3
21	18.7
	21.1
28	16.5
30	08.1
Sep.	
HONO	
16	01.4
19	01.8
22	05.3
	23.2
23	03.2
24	05.0
29	03.5

Date and Station	Phase (GCT)
	h m s
Sep.	
KIP	
22	05.3
	23.2
23	03.2
24	05.0
29	03.5
Sep.	
RC	
2	22.5
3	00.9
	05.2
5	01.1
6	04.5
	08.3
	13.2
8	01.7
10	09.0
	18.8
12	04.5
18	12.7
22	01.1
Sep.	
SJ	
3	09.2
	22.4
4	06.5
	19.5
5	05.1
	07.0
	09.8
	19.7
7	16.8
8	12.9
	21.3
	22.7
9	00.6
	19.7
11	11.1
12	08.8
13	01.9
14	13.8
15	08.9
	09.1
17	23.3
	23.4
18	04.0
	08.4
19	19.1
20	19.4
	21.0
21	07.9
	10.1
	20.3
23	20.4
25	01.2
	22.1
26	23.7
27	13.3
28	01.1
30	10.2

Date and Station	Phase (GCT)
	h m s
Sep.	
TUC	
5	03.2
	08.6
	09.3
7	04.6
10	05.9
	11.0
	11.1
	11.2
	16.6
12	05.9
	13.8
	22.6
13	01.6
	02.0
	04.0
	04.2
	07.5
14	04.3
	11.9
15	00.9
	03.1
	04.9
16	08.6
17	23.1
	23.2
18	02.0
	02.2
	06.9
19	16.3
20	02.5
21	12.8
23	11.4
24	22.4
26	02.0
	07.9
27	04.7
	20.3
Sep.	
UK	
11	18.1
	22.1
20	07.5
	23.5
25	03.0

B-4297-4