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CONTENTS

List of stations 1
Provisional epicenters 2
Seismogram interpretations 5
Local and minor earthquakes 18

U. S. DEPARTMENT OF COMMERCE

Sinclair Weeks, Secretary

COAST AND GEODETIC SURVEY—WASHINGTON

H. Arnold Karo, Director

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National Oceanic and Atmospheric Administration

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1958

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

**Balboa Heights, C. Z. (BH)
The Panama Canal Co.
*Boulder City, Nev. (BC)
Bureau of Reclamation
*Bozeman, Mont. (BOZ)
Montana State College
*Butte, Mont. (BUT)
Montana School of Mines
*Chicago, Ill. (CHI)
University of Chicago and
U. S. Weather Bureau
College, Alaska (COL)
*Columbia, S. C. (COLU)
University of South Carolina
*Eureka, Nev. (EUR)
Eureka Corporation Limited
Honolulu, T. H. (HONO)
*Hungry Horse, Mont. (HH)
Bureau of Reclamation
Kipapa, T. H. (KIP)
*Lincoln, Nebr. (LIN)
Nebraska Wesleyan University
**Philadelphia, Pa. (PHIL)
The Franklin Institute
**Rapid City, S. Dak. (RC)
South Dakota State School of Mines
*Salt Lake City, Utah (SLC)
University of Utah
San Juan, Puerto Rico (SJ)
Sitka, Alaska (SIT)
Tucson, Ariz. (TUC)
Tucson, Ariz. Telemeter (TUC-T)
Ukiah, Calif. (UK)
International Latitude Observatory
Washington, D. C. (WASH)

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

All seismogram interpretations are made or revised at Washington except those for Balboa Heights. Beginning January 1, 1958 the data from the horizontal components of the seismographs at all stations except College, Honolulu, and Tucson will not be published for earthquakes occurring outside the United States. The horizontal instruments will continue in operation and the seismograms for the local and regional earthquakes will be scaled and the data published.

All magnitude determinations are by Pasadena unless otherwise stated. Minor earthquakes are listed at the end of the bulletin.

One asterisk (*) following an origin time indicates probable error of one-tenth 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, which may be obtained on loan by addressing the Seismograph Station Director, Meteorological and Hydrographic Office, Panama Canal Company, Balboa Heights, Canal Zone.

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

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Oct.	h m s	°		°		
1	05 21 01*	19½	N.	121	E.	Off north coast of Luzon, Philippine Islands.
1	06 31 33*	11	S.	166½	E.	Santa Cruz Islands.
1	09 29 43*	57	S.	147	E.	Antarctic Ocean, southwest of Macquarie Island. Mag. 6¼.
1	11 59 55*	3	N.	125	E.	Celebes Sea.
1	16 43 36*	71½	N.	3½	W.	Jan Mayen Island region.
1	17 47 15*	53	N.	165½	W.	Fox Islands, Aleutian Islands. Mag. 6¼.
1	21 42 10*	40	N.	120½	W.	Northern California.
2	04 25 27*	58	S.	9½	W.	Sandwich Islands region.
2	15 00 50*	7½	N.	127	E.	Off east coast of Mindanao, Philippine Islands.
3	00 33 07*	13½	N.	120	E.	Philippine Islands region.
3	02 40 19*	24½	S.	67	W.	Jujuy-Salta Provinces border, Argentina. h about 200 km.
3	11 26 38*	33½	S.	56½	E.	Southern Indian Ocean.
4	00 49 36*	4½	S.	143½	E.	New Guinea. h about 100 km.
4	04 04 10*	14	S.	167	E.	New Hebrides Islands.
4	09 51 26*	22½	N.	144½	E.	Mariana Islands region.
4	11 33 07*	22½	N.	144½	E.	do.
4	12 58 24**					Central Alaska. Felt at College.
4	14 18 47*	22½	S.	67	W.	Jujuy Province, Argentina. h about 100 km.
4	15 08 27*	22½	N.	145	E.	Mariana Islands region.
4	18 09 33*	13½	S.	168	E.	New Hebrides Islands.
5	06 07 19*	18½	N.	145½	E.	Mariana Islands. h about 200 km.
6	00 47 20*	32	S.	179½	E.	Kermadec Islands. h about 250 km.
6	02 08 41*	24	S.	179½	W.	South of Fiji Islands. h about 550 km.
6	09 29 22*	37½	N.	54½	E.	Iran-Turkmen S.S.R. border.
6	18 52 43*	56	N.	163	E.	Near east coast of Kamchatka.
7	12 32 40*	5	S.	151½	E.	New Britain. Felt at Karoola, Pomio, and Rabaul. Mag. 6¼ - 6½ (Berk).
7	15 24 27*	16	S.	69	W.	Bolivia-Peru border. h about 200 km.
8	11 12 50*	29	S.	177½	W.	Kermadec Islands. Felt on Raoul Island.
8	14 00 47*	7	S.	155½	E.	Solomon Islands.
8	14 24 27*	7	S.	156½	E.	do.
8	15 38 17*	29	S.	178	W.	Kermadec Islands.
9	10 22 08*	14	N.	145½	E.	Mariana Islands.
9	11 20 17*	55½	S.	27½	W.	Sandwich Islands region.
9	13 31 42*	35	N.	25	E.	Crete. Felt.
10	08 30 26*	53½	N.	160½	E.	Near east coast of Kamchatka. h about 100 km.
10	09 16 40**					Tibet-India border.
10	11 35 24*	5½	N.	127	E.	Off south coast of Mindanao, Philippine Islands.

Date 1958	Origin Time G. C. T.	Lat.		Long.		Region, Focal Depth, and Remarks
Oct.	h m s	°		°		
10	13 05 20*	36	N.	120½	W.	Near coast of California. Felt at Paso Robles.
10	21 05 51**					Near Islands, Aleutian Islands region.
11	00 41 35*	65½	N.	132½	W.	Yukon territory.
11	02 00 40*	53	N.	159½	E.	Near east coast of Kamchatka.
11	09 06 53*	42½	N.	144½	E.	Near east coast of Hokkaido, Japan.
11	14 37 42*	23½	S.	65	W.	Jujuy Province, Argentina. h about 200 km. Mag. 6.
12	01 35 14*	6	S.	75	W.	Peru.
12	09 44 50*	17	S.	175½	W.	Tonga Islands region. h about 250 km.
12	11 15 46*	51½	N.	179½	E.	Rat Islands, Aleutian Islands.
12	12 47 42*	4½	S.	144	E.	Near north coast of New Guinea.
12	15 18 42*	27½	N.	125½	E.	East China Sea. h about 250 km. Mag. 6-3/4.
12	17 27 00*	14	S.	167	E.	New Hebrides Islands.
13	05 26 56*	14	S.	173½	E.	Northwest of Fiji Islands.
13	08 58 10*	41½	N.	75	E.	Kirghiz S.S.R.
13	09 00 22*	47	N.	112½	W.	Montana.
14	09 06 24*	52½	N.	159	E.	Near east coast of Kamchatka.
14	21 05 10*	33	N.	136½	E.	South of Honshu, Japan. h about 350 km.
14	23 22 54*	20	S.	68½	W.	Chile-Bolivia border. h about 300 km.
15	11 31 30*	31	S.	178½	W.	Kermadec Islands.
15	17 03 10*	17	S.	169	E.	New Hebrides Islands.
16	11 52 30*	23	N.	94½	E.	Burma.
16	18 02 01*	11	S.	167	E.	Santa Cruz Islands. h about 100 km.
17	10 23 56*	19½	S.	177½	W.	Fiji Islands. h about 400 km.
18	06 34 17*	7	N.	71½	W.	Colombia-Venezuela border. h about 100 km.
18	19 01 00*	53	S.	26	W.	Antarctic Ocean.
19	01 53 54*	19	S.	172½	W.	Tonga Islands.
19	11 42 42*	34½	S.	178	W.	Kermadec Islands region.
19	21 22 10**					Near coast of Oaxaca, Mexico.
20	00 55 34*	52	N.	175	W.	Andreanof Islands, Aleutian Islands.
20	01 12 30*	9½	S.	112½	E.	Off south coast of Java. 7 killed at Blitar 1856 injured. 95 houses destroyed, 206 heavily damaged. Felt at Jogjakarta, Malang and Surabaja.
21	06 14 50*	5½	S.	147	E.	Near northeast coast of New Guinea.
21	15 40 40*	11	S.	111	E.	South of Java.
21	17 32 45*	29	S.	179	W.	Kermadec Islands.
21	18 48 38*	6	S.	154½	E.	Solomon Islands.
22	23 42 47*	14½	S.	168	E.	New Hebrides Islands.
23	02 29 47*	37½	N.	82½	W.	Kentucky-Virginia border.
23	06 41 58*	38	N.	22	E.	Greece. Felt at Achie, Arcadie and Argolide.

Date 1958	Origin Time G. C. T.	Lat.	Long.	Region, Focal Depth, and Remarks
Oct.	h m s	°	°	
23	15 43 00*	34½ N.	47 E.	Iran.
23	16 45 12*	15 S.	173 W.	Samoa Islands region. Felt at Apia.
24	08 57 33*	15½ S.	168 E.	New Hebrides Islands.
24	21 13 06*	0	125 E.	Molucca Passage.
25	06 25 04*	22½ S.	11 W.	South Atlantic Ocean.
26	02 17 32*	5½ N.	117 E.	Northern Borneo.
26	12 40 30*	37½ N.	44½ E.	Iraq-Turkey border.
26	15 24 13*	65½ N.	133 W.	Yukon Territory.
26	18 47 35*	3 N.	127 E.	Molucca Passage.
27	09 51 40*	62½ N.	147½ W.	Central Alaska.
27	15 04 44*	23½ S.	175½ W.	Tonga Islands region.
27	18 16 53*	44½ N.	147½ E.	Kurile Islands.
28	04 14 55*	62½ S.	157 W.	Antarctic Ocean.
28	05 22 48*	25½ N.	96 E.	Burma.
28	10 46 27*	30½ N.	85 E.	Southern Tibet.
28	18 18 03*	4½ S.	153½ E.	New Britain-Solomon Islands region.
28	23 50 08*	52 N.	179½ E.	Andreanof Islands, Aleutian Islands.
29	06 07 34*	51 N.	179 E.	do.
29	07 44 10*	51½ N.	179½ E.	Andreanof Islands, Aleutian Islands. Mag. 6¼.
29	07 55 14*	51½ N.	179 E.	Andreanof Islands, Aleutian Islands.
29	08 06 15*	51 N.	179 E.	do.
29	15 17 00*	55 N.	161 E.	Near east coast of Kamchatka.
29	19 25 30*	51 N.	179½ E.	Andreanof Islands, Aleutian Islands.
30	03 44 32*	51½ N.	179 E.	do.
30	10 05 00*	20½ S.	176 W.	Tonga Islands.
30	23 04 39*	10 S.	160½ E.	Solomon Islands.
31	00 26 16*	37½ N.	122 W.	California.
31	07 10 00*	22 N.	109 W.	Gulf of California.
31	19 02 54*	3½ S.	143½ E.	New Guinea.
31	23 39 27*	25 N.	122½ E.	Near north coast of Formosa. h about 100 km.

Date and Station		Phase (GCT) h m s
Oct. 1		
COL	iP	05 32 33
EUR	eP	05 34 50
	e	38 04
HH	iP	05 34 35
	i	34 43
Oct. 1		
COL	iP	06 44 01
EUR	iP	06 44 25
HH	e(P)	06 44 43
TUC	eP	06 44 38
TUC-T	eP	06 44 38
	e	44 58
Oct. 1		
BUT	eP'	09 48 59
	ePP	52 28
COL	eP'	09 48 50
	ePP	52 25
EUR	iP'	09 48 45
	ePP	50 31
	e	52 31
HH	eP'	09 48 59
RC	eP'	09 49 07
	ePP	52 42
SLC	eP'	09 48 52
TUC	eP'	09 48 41
	ePP	50 21
TUC-T	iP'	09 48 40
	ePP	50 20
Oct. 1		
EUR	eP	10 01 16
HH	e(P)	10 01 30
TUC	e(P)	10 02 27
	eL	26 46
Oct. 1		
COL	eP	12 12 37
Oct. 1		
EUR	eP	12 29 43
Oct. 1		
BOZ	eP	15 48 47
Oct. 1		
EUR	eP	16 53 43
TUC-T	eP	16 54 21
Oct. 1		
EUR	eP	17 16 43

Date and Station		Phase (GCT) h m s
Oct. 1		
BC	eP	17 54 45
BOZ	eP	17 54 14
COL	iP	17 50 48
	eL	54 56
EUR	iP	17 54 20
HONO	iP	17 53 43
	i	53 55
HH	iP	17 53 48
	iPcP	56 34
KIP	iP	17 53 42
RC	iP	17 55 01
	e	55 34
SLC	eP	17 53 34
	e	53 47
SJ	iP	17 59 32
SIT	eP	17 51 27
TUC	iP	17 55 26
	e	56 32
TUC-T	iP	17 55 26
	ePP	57 25
UK	iP	17 53 42
Oct. 1		
EUR	eP	20 02 24
Oct. 1		
COL	eP	21 22 23
EUR	eP	21 24 22
HH	eP	21 24 14
Oct. 1		
BC	eP	21 43 43
	e	43 57
BUT	e(P)	21 44 48
	eL	46 48
EUR	iP	21 43 03
	iL	43 58
HH	e(P)	21 44 44
	eL	47 26
SLC	eP	21 43 56
	e	44 17
	eL	45 44
TUC-T	e(P)	21 44 50
	eL	46 20
UK	iP	21 42 48
	i	42 56

Date and Station		Phase (GCT) h m s
UK	e(S)	21 43 22
	eL	43 24
Oct. 2		
COL	eP	00 29 10
EUR	iP	00 32 35
Oct. 2		
BC	eP'	04 44 45
BUT	eP'	04 44 54
	ePP	47 19
COL	eP'	04 45 29
	i	46 05
	ePP	49 14
EUR	eP'	04 44 38
HH	eP'	04 44 41
RC	eP'	04 44 37
SJ	eP	04 38 26
TUC	eP'	04 44 21
	e	44 33
TUC-T	eP'	04 44 21
	e	44 34
	e	46 04
Oct. 2		
EUR	eP	04 57 09
Oct. 2		
BH	iP	05 27 05
	iS	27 51
HH	eP	05 34 15
Oct. 2		
EUR	eP	06 01 29
Oct. 2		
EUR	eP	08 04 03
Oct. 2		
RC	e(P)	08 56 16
Oct. 2		
SJ	e(P)	10 51 31
Oct. 2		
TUC	e(P)	11 14 37
TUC-T	e(P)	11 14 32
Oct. 2		
EUR	eP	11 24 55
Oct. 2		
COL	iP	15 13 07
EUR	e(P')	15 18 26
	iPP	19 21
SJ	eP'	15 20 48

Date and Station		Phase (GCT) h m s
TUC-T	e(P')	15 19 38
	ePP	20 11
Oct. 2		
COL	eP	21 26 18
Oct. 3		
HH	eP	00 10 46
	e	12 03
Oct. 3		
COL	iP	00 45 09
	ePP	48 15
EUR	eP'	00 50 51
	ePP	51 40
	i	51 50
TUC	iPP	00 52 34
TUC-T	iPP	00 52 34
Oct. 3		
RC	e(P)	01 52 15
Oct. 3		
BC	eP	02 13 52
	e	14 53
EUR	iP	02 14 38
	e(S)	16 06
	eL	16 36
Oct. 3		
EUR	iP	02 52 01
HH	iP	02 52 28
RC	eP	02 51 45
TUC	eP	02 51 13
TUC-T	iP	02 51 13
Oct. 3		
BC	eP	04 27 10
	e	28 01
EUR	eP	04 27 23
	e(S)	28 31
	eL	28 51
TUC	e(P)	04 30 02
TUC-T	eP	04 29 50
Oct. 3		
COL	iP	04 50 58
	iS	51 18
	iL	51 20
EUR	iP	04 56 41
HH	iP	04 55 40
RC	eP	04 56 52
TUC	eP	04 57 53

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Date and Station		Phase (GCT)
		h m s
TUC-T	iP	04 57 52
Oct. 3		
EUR	iP	11 01 03
HH	iP	11 00 21
Oct. 3		
COL	iP'	11 46 17
EUR	iP'	11 48 14
	ePP	52 04
HH	iP'	11 47 36
Oct. 3		
COL	eP	12 14 24
TUC	eP	12 13 54
TUC-T	eP	12 13 54
Oct. 3		
TUC-T	e(P)	12 53 13
Oct. 3		
EUR	eP	17 35 10
TUC-T	eP	17 34 25
Oct. 3		
EUR	eP	17 45 09
Oct. 3		
EUR	iP	18 57 18
RC	eP	18 57 11
TUC-T	eP	18 56 31
Oct. 3		
UK	iP	20 28 14
	e(S)	28 26
	eL	28 28
Oct. 3		
EUR	iP	21 01 16
HH	iP	21 01 44
TUC-T	iP	21 00 28
Oct. 3		
EUR	eP	22 41 25
TUC-T	eP	22 40 15
Oct. 4		
COL	iP	01 02 06
	ipP	02 42
COLU	eP'	01 08 40
EUR	iP	01 03 19
	ePP	07 30
HONO	eP	01 00 23
HH	iP	01 03 23

Date and Station		Phase (GCT)
		h m s
KIP	eP	00 59 56
	ipP	01 00 31
SJ	iP'	01 09 15
	e	09 42
Oct. 4		
TUC	e(P)	03 06 56
Oct. 4		
EUR	eP	03 36 23
Oct. 4		
EUR	eP	03 41 02
HH	e(P)	03 40 05
	eL	43 08
RC	eP	03 41 55
TUC	eP	03 42 38
TUC-T	eP	03 42 38
Oct. 4		
COL	iP	04 16 54
EUR	eP	04 17 10
Oct. 4		
EUR	eP	04 57 37
Oct. 4		
BC	eP	10 04 04
BUT	iP	10 03 52
COL	eP	10 01 39
EUR	iP	10 03 53
HH	iP	10 03 42
RC	eP	10 04 26
SLC	eP	10 04 05
	e	04 59
TUC	eP	10 04 30
TUC-T	eP	10 04 27
Oct. 4		
HH	eP	10 07 18
Oct. 4		
BC	eP	11 45 47
BOZ	eP	11 45 42
BUT	eP	11 45 34
COL	iP	11 43 19
EUR	iP	11 45 36
HH	iP	11 45 25
RC	eP	11 46 09

Date and Station		Phase (GCT)
		h m s
SLC	eP	11 45 48
	e	46 10
TUC	eP	11 46 12
	e	46 23
TUC-T	iP	11 46 11
UK	e(P)	11 45 09
Oct. 4		
EUR	eP	11 49 04
Oct. 4		
COL	iP	12 58 26
EUR	eP	13 04 49
HH	eP	13 03 44
	eL	11 22
Oct. 4		
EUR	iP	14 30 33
HH	iP	14 31 03
	e	31 33
RC	iP	14 30 18
	e	30 49
TUC	eP	14 29 45
TUC-T	iP	14 29 45
Oct. 4		
EUR	eP	14 34 09
TUC-T	eP	14 34 11
Oct. 4		
BC	eP	15 21 06
EUR	iP	15 20 54
HH	iP	15 20 44
RC	eP	15 21 27
SLC	eP	15 21 06
TUC-T	eP	15 21 29
	e	22 28
Oct. 4		
COL	eP	18 23 03
EUR	eP	18 22 26
	e	23 19
Oct. 4		
BUT	eP	18 51 27
EUR	eP	18 51 30
HH	i(P)	18 51 18
Oct. 4		
EUR	eP	23 50 37

Date and Station		Phase (GCT)
		h m s
TUC	eP	23 50 39
TUC-T	eP	23 50 40
Oct. 5		
COL	iP	03 35 34
Oct. 5		
COL	eP	04 15 30
EUR	iP	04 18 55
Oct. 5		
EUR	eP	05 42 28
Oct. 5		
BOZ	eP	06 20 33
BUT	eP	06 19 37
	epP	20 29
COL	e(P)	06 17 36
EUR	eP	06 19 36
HH	eP	06 19 28
	epP	20 17
RC	eP	06 21 01
SLC	eP	06 20 37
TUC-T	eP	06 20 09
	e	20 24
	ipP	21 01
Oct. 5		
BUT	eP	06 32 45
HH	iP	06 31 38
	e	31 49
	eS	32 35
	iL	32 41
Oct. 5		
COL	iP	15 32 08
	iS	32 13
	iL	32 15
Oct. 5		
EUR	eP	15 51 46
	eS	52 36
	eL	52 46
Oct. 5		
HH	eP	18 43 06
Oct. 5		
COL	iP	20 26 45
HH	i(P)	20 29 43
Oct. 5		
HH	i(P)	21 13 22
Oct. 5		
COL	eP	21 22 11
	eL	24 37

Date and Station		Phase	(GCT) h m s
SIT		e(P)	21 20 28
		e	20 31
		e(S)	20 48
		eL	20 50
Oct. 6			
COL		eP	01 00 41
		epP	01 47
HH		ePP	01 04 44
		ePKKP	16 59
TUC		eP	01 00 05
		epP	01 09
		ePKKP	17 23
TUC-T		eP	01 00 06
		ipP	01 09
		ePKKP	17 22
Oct. 6			
COL		eP	02 20 55
		epP	22 53
EUR		eP	02 20 34
		epP	22 31
TUC		eP	02 20 34
TUC-T		iP	02 20 34
Oct. 6			
EUR		eP	04 46 23
TUC-T		eP	04 45 51
Oct. 6			
EUR		eP	07 21 30
TUC		eP	07 21 01
TUC-T		eP	07 21 00
Oct. 6			
COL		iP	09 41 15
		i	41 24
EUR		eP	09 43 25
HH		iP	09 42 42
Oct. 6			
COL		eP	14 44 41
EUR		eP	14 48 10
HH		eP	14 47 38
RC		eP	14 48 46
Oct. 6			
KIP		eP	18 16 01
Oct. 6			
EUR		eP	18 49 40
Oct. 6			
BC		eP	19 02 33
BOZ		eP	19 01 57
BUT		eP	19 01 48
		e	02 06
COL		iP	18 58 12
		i	58 23
EUR		iP	19 02 10
		i	02 25
		i	03 16
HH		iP	19 01 30
		iPcP	02 56
RC		iP	19 02 32
		eP' P'	31 50
SLC		eP	19 02 20
SJ		eP	19 06 11
SIT		e(P)	18 59 41
TUC		iP	19 03 08
TUC-T		iP	19 03 08
Oct. 6			
EUR		e(P)	20 09 31
		eL	10 28
Oct. 6			
HH		i(P)	22 25 39
Oct. 7			
BC		e(P)	00 10 45
EUR		e(P)	00 12 37
Oct. 7			
EUR		eP	01 14 50
Oct. 7			
SJ		eP	02 13 28
		e	13 40
		iS	14 29
		eL	14 40
Oct. 7			
BUT		eP	05 12 03
EUR		eP	05 10 10
HH		eP	05 09 31
		eL	11 23
Oct. 7			
COL		iP	08 46 31
		iS	46 37
		iL	46 39
Oct. 7			
COL		eP	10 37 30
Oct. 7			
EUR		eP	11 27 13
TUC		eP	11 27 14
TUC-T		iP	11 27 15
Oct. 7			
BC		eP	12 46 11
		e	46 19
		ePP	50 08
BOZ		eP	12 46 26
BUT		eP	12 46 19
		ePP	50 22
COL		iP	12 45 07
		iPPP	50 29
		iS	55 20
		iScS	55 41
		eL	13 06 42
		eP' P'	11 27
EUR		iP	12 46 08
		i	49 38
		ePKKP	13 02 40
		i	03 04
		i	03 35
		eP' P'	11 14
HONO		eP	12 42 28
		eS	50 04
		eL	55 44
HH		iP	12 46 14
		e	49 46
		ePKKP	13 02 57
		eP' P'	11 18
KIP		iP	12 42 22
RC		eP	12 46 51
		ePP	51 09
		ePKKP	13 02 39
SLC		eP	12 46 21
SIT		eP	12 45 22
TUC		eP	12 46 27
		e	46 43
		ePP	50 34
		ePKKP	13 03 20
		eL	15 28
TUC-T		eP	12 46 28
		iPP	50 35
		ePKKP	13 03 19
		eP' P'	11 10
UK		eP	12 45 52
Oct. 7			
COL		iP	15 05 56
EUR		eP	15 10 12
HH		e(P)	15 09 44
Oct. 7			
COL		iP	15 37 52
		ePP	41 49
EUR		iP	15 35 25
		i	36 09
HH		iP	15 35 55
RC		iP	15 35 06
		e	35 22
SLC		eP	15 35 16
TUC		e(P)	15 34 38
TUC-T		iP	15 34 34
Oct. 7			
EUR		eP	16 12 04
Oct. 7			
EUR		eP	19 58 32
TUC-T		eP	19 59 06
Oct. 7			
HH		eP	20 14 37
Oct. 7			
COL		e(P)	21 07 04
		iP	07 09
		eS	07 44
		eL	07 53
EUR		eP	21 13 10
HH		iP	21 12 08
TUC-T		eP	21 14 20
Oct. 7			
BC		e(P)	22 42 45
EUR		e(P)	22 41 07
TUC		e(P)	22 39 20
		i	39 35
		eS	40 24
		iL	40 32
TUC-T		e(P)	22 39 18
		e	39 33
		iL	40 30
Oct. 7			
COL		i(P)	23 32 40
Oct. 8			
EUR		iP	00 29 14
RC		eP	00 29 52
TUC		eP	00 30 14
		e	30 26
TUC-T		eP	00 30 15

Date and Station		Phase (GCT) h m s
Oct. 8		
EUR	eP	00 59 53
Oct. 8		
EUR	eP	03 26 09
TUC	eP	03 26 05
TUC-T	iP	03 26 06
Oct. 8		
EUR	eP	03 37 31
TUC	eP	03 37 25
TUC-T	eP	03 37 26
	iP	37 27
Oct. 8		
EUR	eP	04 18 53
Oct. 8		
TUC	eP	04 56 56
TUC-T	eP	04 56 56
Oct. 8		
EUR	eP	05 50 46
Oct. 8		
TUC-T	eP	07 52 15
Oct. 8		
COL	iP	09 01 06
	e(S)	02 43
	iL	03 23
HH	eP	09 05 21
Oct. 8		
EUR	eP	10 30 14
TUC	eP	10 30 00
TUC-T	eP	10 30 00
Oct. 8		
COL	e(P)	11 11 28
Oct. 8		
BC	e(P)	11 25 39
EUR	eP	11 25 46
TUC	iP	11 25 41
TUC-T	iP	11 25 42
	e	26 15
Oct. 8		
COL	iP	14 13 11
	i	13 27
EUR	eP	14 14 03
	i	14 19
HH	e(P)	14 14 26

Date and Station		Phase (GCT) h m s
Oct. 8		
COL	iP	14 37 13
	i	37 28
EUR	eP	14 38 04
Oct. 8		
TUC-T	eP	14 48 01
Oct. 8		
EUR	eP	15 51 13
TUC	eP	15 51 09
TUC-T	iP	15 51 09
Oct. 8		
EUR	eP	18 12 43
TUC	eP	18 12 41
TUC-T	iP	18 12 42
	e	13 03
Oct. 8		
EUR	eP	21 01 04
	i	02 06
Oct. 8		
BC	iP	22 00 30
	eS	00 49
	eL	00 53
EUR	iP	22 00 40
TUC-T	e(P)	22 01 53
Oct. 9		
COL	eP	00 11 53
EUR	iP	00 15 12
TUC	eP	00 16 15
TUC-T	eP	00 16 15
Oct. 9		
COL	eP	01 10 29
EUR	eP	01 15 17
Oct. 9		
HH	e(P)	01 36 32
Oct. 9		
RC	e(P)	01 46 42
	e	50 02
	e	52 06
Oct. 9		
EUR	eP	02 01 55
TUC	eP	02 01 57
TUC-T	eP	02 01 52
Oct. 9		
COL	e(P)	04 07 36

Date and Station		Phase (GCT) h m s
Oct. 9		
EUR	eP	04 22 42
TUC	eP	04 22 43
TUC-T	eP	04 22 41
	e	22 43
Oct. 9		
EUR	eP	04 38 58
	ipP	39 24
HH	e(P)	04 39 43
TUC	eP	04 38 14
	e	38 31
TUC-T	eP	04 38 13
	e	38 31
Oct. 9		
COL	i(P)	06 08 49
Oct. 9		
COL	eP'	08 18 26
EUR	eP'	08 19 28
Oct. 9		
COL	iP	10 16 11
	i	16 32
EUR	eP	10 15 38
HH	e(P)	10 16 10
TUC	eP	10 15 38
TUC-T	eP	10 15 38
Oct. 9		
COL	eP	10 33 07
EUR	iP	10 35 00
HH	iP	10 34 54
TUC	eP	10 35 30
TUC-T	eP	10 35 30
Oct. 9		
BH	iP	11 32 15
	eS	41 59
BC	eP'	11 39 05
BOZ	eP'	11 39 16
BUT	eP'	11 39 16
COL	eP'	11 40 01
	i	40 08
	eSS	12 02 52
	eL	40 26
EUR	eP'	11 39 11
	iPP	40 34

Date and Station		Phase (GCT) h m s
EUR	ePKKP	11 49 20
HH	iP'	11 39 20
	ePP	41 17
	ePKS	42 42
	eSKKP	52 18
RC	eP'	11 39 05
	ePP	40 28
TUC	eP'	11 38 56
	ePP	39 40
	ePS	49 28
	eL	12 11 40
TUC-T	eP	11 38 56
	e(PP)	39 26
	ePKKP	49 27
	e	50 14
Oct. 9		
COL	iP	13 43 56
EUR	eP	13 45 23
HH	iP	13 44 43
RC	eP	13 45 39
Oct. 9		
EUR	eP	14 32 48
HH	iP	14 33 17
TUC-T	eP	14 32 59
	e	33 23
Oct. 9		
TUC-T	eP	14 46 18
Oct. 9		
EUR	iP	14 53 38
	i	53 50
HH	iP	14 54 08
RC	eP	14 53 26
	e	53 39
TUC	e(P)	14 52 49
	e	53 02
TUC-T	iP	14 52 49
	i	53 01
Oct. 9		
HH	iP	20 44 51
Oct. 9		
HH	eP	22 37 27
Oct. 10		
HH	eP	01 11 00
Oct. 10		
TUC	eP	01 36 49
TUC-T	eP	01 36 49

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

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

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

Date and Station		Phase (GCT)
		h m s
RC	eP	06 02 55
SLC	iP	06 01 18
	e	01 34
	eS	02 09
TUC	iP	06 01 39
	i	02 06
	iL	03 31
TUC-T	iP	06 01 40
	eL	03 32
UK	eP	06 01 48
	eL	03 17
Oct. 16		
EUR	eP	06 15 44
Oct. 16		
HH	eP	07 39 20
Oct. 16		
COL	iP	12 04 43
HH	eP'	12 10 54
Oct. 16		
EUR	eP	14 16 02
Oct. 16		
EUR	eP	14 21 03
Oct. 16		
BC	eP	18 00 19
	e	00 23
	eL	01 00
EUR	e(P)	18 01 04
TUC	e(P)	18 00 38
	i	00 43
	eL	01 35
TUC-T	eP	18 00 25
	i	00 43
	eL	01 43
Oct. 16		
BC	eP	18 14 45
BOZ	eP	18 15 09
	epP	15 48
COL	iP	18 14 21
	ipP	14 59
EUR	iP	18 14 45
	ipP	15 24
	iPP	18 12
HH	iP	18 15 02
	i(pP)	15 31
	ePP	18 26
KIP	eP	18 10 34
RC	eP	18 15 32
	epP	16 12

Date and Station		Phase (GCT)
		h m s
SLC	eP	18 15 01
	epP	15 39
SJ	eP'	18 21 05
TUC	eP	18 14 56
TUC-T	iP	18 14 57
	ipP	15 35
UK	iP	18 14 17
Oct. 16		
BC	eP	19 16 16
	e	16 56
EUR	e(P)	19 16 56
TUC	eP	19 16 32
	e	16 36
	eL	17 28
TUC-T	e(P)	19 16 19
	i	16 36
	eL	17 40
Oct. 16		
COL	iP	19 36 16
Oct. 16		
HH	i(P)	22 32 25
Oct. 16		
COL	iP	23 04 41
	i	05 22
HH	e(P)	23 05 15
Oct. 16		
HH	e(P)	23 26 38
	e	30 15
Oct. 16		
EUR	eP	23 57 16
Oct. 17		
COL	eP	02 48 06
Oct. 17		
COL	eP	07 02 29
EUR	iP	07 05 17
HH	iP	07 04 55
Oct. 17		
COL	eP	07 08 30
EUR	iP	07 12 18
	ipP	12 32
HH	e(P)	07 11 40
	i	12 54
RC	eP	07 12 41
Oct. 17		
COL	eP	07 28 42

Date and Station		Phase (GCT)
		h m s
HH	eP	07 31 11
Oct. 17		
COL	eP	08 32 09
Oct. 17		
BC	eP	10 35 38
	epP	37 10
BOZ	eP	10 36 16
	epP	37 48
BUT	eP	10 36 09
	epP	37 44
COL	iP	10 36 05
	i	36 24
	ipP	37 39
EUR	iP	10 35 43
	ipP	37 14
HH	eP	10 36 11
	epP	37 45
	ePKKP	53 50
RC	e(pP)	10 38 08
SLC	epP	10 37 35
TUC	eP	10 35 43
UK	eP	10 35 20
	epP	36 54
Oct. 17		
EUR	iP	12 43 46
Oct. 17		
COL	eP	14 31 18
Oct. 17		
COL	eP	14 38 52
Oct. 18		
COL	iP	00 39 12
Oct. 18		
COL	e(P)	01 27 12
Oct. 18		
COL	eP	05 26 50
EUR	iP	05 30 19
	e	32 19
HH	iP	05 32 06
TUC	eP	05 31 22
Oct. 18		
BH	iP	06 36 03
	iS	37 32
BC	eP	06 42 58
BOZ	eP	06 43 17

Date and Station		Phase (GCT)
		h m s
BUT	eP	06 43 24
	e	43 32
COL	eP	06 46 10
	ePP	49 22
COLU	eP	06 40 08
	e	40 13
EUR	iP	06 43 15
HH	iP	06 43 40
RC	iP	06 42 36
	epP	43 07
SLC	eP	06 42 59
SJ	iP	06 37 17
	ipP	37 45
TUC	iP	06 42 21
TUC	iP	06 42 21
UK	eP	06 44 05
Oct. 18		
BOZ	eP	07 48 14
COL	iP	07 44 50
	iS	48 18
	eL	50 18
EUR	iP	07 48 19
HH	eP	07 47 50
TUC	eP	07 49 24
Oct. 18		
HH	iP	07 50 07
Oct. 18		
BH	iP	08 19 21
	e	20 05
Oct. 18		
EUR	eP	10 02 00
HH	iP	10 00 59
Oct. 18		
COL	eP	11 57 11
EUR	iP	12 00 00
HH	iP	11 59 38
Oct. 18		
BC	eP	14 25 28
EUR	eP	14 25 46
Oct. 18		
EUR	eP	14 41 51
	iL	42 37

B 4297-44

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

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

8-4297-4+

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

B 4297-4

Date and Station		Phase (GCT)
		h m s
EUR	eP	15 17 15
Oct. 27		
HH	eP	16 21 00
Oct. 27		
EUR	eP	18 15 52
Oct. 27		
COL	iP	18 24 35
EUR	iP	18 27 52
HH	iP	18 27 24
	iPcP	27 59
RC	iP	18 28 18
TUC-T	iP	18 28 40
Oct. 27		
EUR	eP	18 34 53
Oct. 27		
TUC	eP	19 03 58
	e	05 08
Oct. 27		
COL	eP	19 26 27
EUR	iP	19 30 24
	i	31 29
HH	e(P)	19 29 46
	iPcP	31 10
RC	eP	19 30 47
TUC	iP	19 31 22
TUC-T	iP	19 31 22
Oct. 27		
SJ	eP	21 41 36
Oct. 28		
COL	iP	04 50 01
EUR	eP	04 53 10
HH	eP	04 53 41
Oct. 28		
COL	eP	05 34 44
Oct. 28		
HH	e(P)	06 20 36
Oct. 28		
HH	e(P)	07 50 51
Oct. 28		
COL	iP	10 12 29
EUR	eP	10 11 55
HH	eP	10 12 27
TUC	eP	10 11 53

Date and Station		Phase (GCT)
		h m s
TUC-T	eP	10 11 54
	i	12 17
Oct. 28		
HH	iP	10 17 27
Oct. 28		
COL	iP	10 58 22
	i	59 21
	ePP	11 01 17
	eScS	08 36
	eSS	12 37
	eL	20 40
EUR	e(P)	11 00 54
	e	01 17
	eP'	05 01
	ePKKP	16 14
HH	eP	11 00 15
	eP'	03 55
	iPP	04 22
RC	ePP	11 05 02
	e	05 11
TUC	eP'	11 05 17
	ePKKP	15 46
	eL	49 16
TUC-T	eP'	11 05 16
	ePP	06 06
	ePKKP	16 46
Oct. 28		
HH	eP	11 48 39
Oct. 28		
EUR	e(P)	15 33 40
Oct. 28		
COL	iP	18 30 20
EUR	eP	18 31 34
Oct. 28		
BOZ	eP	23 58 24
	e	58 32
BUT	eP	23 58 15
COL	eP	23 55 00
	eS	59 00
	eL	00 01 15
COLU	eP	00 01 19
EUR	iP	23 58 28
HH	iP	23 57 56
	i	58 28
	iPcP	59 55
	eS	00 03 41
	i	03 54
RC	iP	23 59 06
SLC	eP	23 58 43

Date and Station		Phase (GCT)
		h m s
SJ	iP	00 03 10
TUC	iP	23 59 29
TUC-T	iP	23 59 29
UK	eP	23 58 06
Oct. 29		
EUR	eP	00 03 55
	i	05 09
RC	eP	00 04 29
Oct. 29		
TUC-T	eP	00 13 18
Oct. 29		
TUC	eP	00 18 32
TUC-T	eP	00 18 33
Oct. 29		
EUR	eP	00 30 29
Oct. 29		
EUR	eP	01 00 04
Oct. 29		
COL	iP	03 38 38
EUR	eP	03 38 05
TUC	eP	03 38 14
TUC-T	eP	03 38 04
Oct. 29		
TUC	eP	06 09 07
TUC-T	eP	06 08 56
	i	09 01
Oct. 29		
BOZ	e(P)	06 15 53
COL	iP	06 12 31
EUR	iP	06 15 58
HH	iP	06 15 27
	iPcP	17 28
RC	eP	06 16 36
SJ	iP	06 20 39
TUC	iP	06 16 58
TUC-T	eP	06 16 58
Oct. 29		
BOZ	eP	07 52 26
	e	53 29
BUT	iP	07 52 17
	e(S)	57 53
COL	iP	07 49 03

Date and Station		Phase (GCT)
		h m s
COL	eS	07 52 49
	iL	53 20
COLU	eP	07 55 22
	e	55 33
EUR	iP	07 52 31
	e(S)	59 14
	e(P'P')	08 23 02
HONO	iP	07 51 06
	iS	56 34
	iL	59 46
	eT	08 27 06
	iT	27 55
HH	iP	07 52 00
	ePP	53 37
	iPcP	53 56
	i	54 58
	iS	57 48
KIP	iP	07 51 03
RC	iP	07 53 09
	e	58 24
SLC	iP	07 52 46
	e	53 02
SJ	iP	07 57 12
	e	08 01 54
SIT	e(P)	07 50 13
TUC	iP	07 53 32
	i	53 46
	e	54 05
	ePP	55 53
	iS	08 01 08
	i	05 12
	eL	07 08
	eP'P'	23 52
TUC-T	iP	07 53 31
	e(P'P')	08 23 19
	iP'P'	23 56
UK	iP	07 52 00
WASH	iP	07 55 00
	eS	08 03 56
Oct. 29		
BOZ	eP	08 03 32
BUT	eP	08 03 22
COL	iP	08 00 09
EUR	iP	08 03 37
HONO	eP	08 02 07
HH	iP	08 03 06
RC	iP	08 04 14

8-42927-4

Date and Station		Phase (GCT) h m s
SLC	eP	08 03 51
SJ	iP	08 08 17
TUC	iP	08 04 38
TUC-T	iP	08 04 38
UK	eP	08 03 04
Oct. 29 COL	iP	08 09 25
Oct. 29 BOZ	eP	08 14 35
BUT	eP	08 14 26
COL	eP	08 11 13
EUR	iP	08 14 40
HH	iP	08 14 09
	i	16 05
	i	16 26
	e	19 55
RC	eP	08 15 17
SLC	eP	08 14 56
SJ	iP	08 19 21
	e	21 34
TUC	iP	08 15 41
	e	18 05
TUC-T	iP	08 15 41
	e	15 52
Oct. 29 EUR	iP	08 16 56
Oct. 29 COL	eP	09 08 25
EUR	eP	09 11 53
HH	eP	09 11 21
Oct. 29 COL	iP	09 28 40
EUR	iP	09 32 07
HH	eP	09 31 36
Oct. 29 RC	e(P)	11 28 56
SLC	eP	11 27 17
	e	27 55
TUC	e(P)	11 30 53
TUC-T	eP	11 30 51

Date and Station		Phase (GCT) h m s
Oct. 29 COL	iP	15 22 39
EUR	iP	15 26 33
HH	eP	15 25 54
RC	eP	15 26 56
	e	27 06
Oct. 29 HH	e(P)	15 33 28
Oct. 29 COL	iP	18 08 15
EUR	iP	18 07 50
HH	eP	18 08 20
TUC-T	iP	18 07 54
Oct. 29 SJ	eP	18 38 32
Oct. 29 BOZ	eP	19 33 46
COL	iP	19 30 24
EUR	iP	19 33 52
HH	iP	19 33 20
RC	eP	19 34 30
TUC-T	eP	19 34 52
	e	35 08
Oct. 29 EUR	e(P)	20 20 10
Oct. 29 EUR	eP	20 50 09
Oct. 29 EUR	eP	22 47 17
Oct. 30 EUR	iP	02 45 14
TUC	iP	02 45 27
TUC-T	iP	02 45 27
Oct. 30 EUR	eP	03 00 42
	iS	01 20
	eL	01 23
Oct. 30 COL	iP	03 10 02
EUR	eP	03 13 16
Oct. 30 COL	eP	03 49 28

Date and Station		Phase (GCT) h m s
EUR	iP	03 52 57
HH	iP	03 52 25
RC	eP	03 53 34
SJ	iP	03 57 36
Oct. 30 HH	e(P)	04 10 42
Oct. 30 EUR	eP	06 17 07
HH	iP	06 17 16
Oct. 30 BOZ	eP	07 15 21
Oct. 30 COL	iP	08 15 47
EUR	eP	08 19 15
HH	eP	08 18 42
Oct. 30 EUR	eP	09 01 21
HH	e(P)	09 00 38
	e	00 49
Oct. 30 HH	e(P)	09 46 11
Oct. 30 EUR	eP	10 03 06
Oct. 30 COL	iP	10 17 45
	ipP	18 34
EUR	eP	10 17 18
	ipP	18 04
HH	eP	10 17 47
	epP	18 33
TUC	eP	10 18 04
TUC-T	eP	10 18 04
Oct. 30 COL	eP	11 02 20
EUR	iP	11 05 52
HH	iP	11 05 17
Oct. 30 EUR	eP	11 11 14
HH	e(P)	11 10 43
	i	12 34
Oct. 30 EUR	eP	11 13 05

Date and Station		Phase (GCT) h m s
Oct. 30 EUR	eP	11 24 39
Oct. 30 COL	eP	11 39 18
EUR	eP	11 42 46
HH	iP	11 42 14
	e	44 45
Oct. 30 HH	e(P)	11 57 11
Oct. 30 HH	eP	12 31 43
Oct. 30 COL	eP	13 44 43
Oct. 30 BUT	eP	15 02 19
COL	iP	15 06 42
HH	iP	15 02 45
	iL	05 59
RC	eP	15 02 55
	eL	06 15
SLC	eP	15 01 18
	e	01 33
	e	02 35
SJ	e(P)	15 03 38
TUC	eP	15 01 40
	i	02 04
	eL	03 14
Oct. 30 HH	e(P)	22 27 21
Oct. 30 COL	iP	23 17 09
EUR	eP	23 17 46
Oct. 31 EUR	eP	00 27 31
	i	27 44
TUC	e(P)	00 28 33
	eL	31 48
UK	eP	00 26 47
	e(S)	27 14
Oct. 31 HH	e(P)	03 48 40
Oct. 31 HH	e(P)	03 57 24
RC	eP	03 58 33

Date and Station		Phase (GCT)
		h m s
Oct. 31		
HH	eP	05 22 35
Oct. 31		
HH	eP	05 48 50
Oct. 31		
HH	eP	06 46 59
Oct. 31		
BUT	eP	07 15 22
COL	eP	07 19 03
EUR	iP	07 14 22
HH	iP	07 15 45
RC	eP	07 15 06
	eL	23 26
TUC	eP	07 12 34
	eL	15 11
TUC-T	eP	07 12 32
	eL	15 12
Oct. 31		
COL	eP	07 49 59
HH	eP	07 53 00
TUC	iP	07 54 40
	i	54 53
TUC-T	iP	07 54 40
	i	54 52
Oct. 31		
COL	eP	12 14 40
Oct. 31		
EUR	eP	17 56 07
Oct. 31		
COL	eP	19 15 27
SJ	eP'	19 22 37
Oct. 31		
COL	iP	21 29 30
EUR	iP	21 29 12
HH	eP	21 29 39
TUC	eP	21 29 13
TUC-T	iP	21 29 13
Oct. 31		
TUC	e(P)	21 44 48
	e	45 22
Oct. 31		
BUT	iP	23 52 38
COL	iP	23 50 17
	ipP	50 42

Date and Station		Phase (GCT)
		h m s
EUR	iP	23 52 48
	ipP	53 13
	ePP	56 33
HH	iP	23 52 28
	iPKKP	00 09 46
RC	eP	23 53 05
TUC-T	eP	23 53 24
	ePP	57 39

Local and Minor Earthquakes

Date and Station		Phase (GCT)
Oct.		
BUT		
1		17.7
2		00.2
5		06.0
6		08.2
		15.8
9		09.5
		19.5
13		10.1
		10.3
27		07.7
Oct.		
COL		
1		02.4
		16.3
2		05.9
		07.0
4		06.6
		22.6
8		06.0
		17.9
11		21.1
13		11.7
16		06.2
17		18.4
18		09.0
		18.3
19		13.0
		17.6
22		15.2
23		19.2
24		12.1
27		17.4
29		19.3
31		00.1
Oct.		
EUR		
2		15.0
5		14.2
11		12.8
16		12.4
17		06.5
19		13.5
26		03.0
Oct.		
HONO		
4		02.5
7		00.9
8		01.2

Date and Station	Phase (GCT)
HONO	h m s
8	01.4
9	00.0
11	01.4
15	01.4
16	22.2
22	01.6
	02.0
	19.7
	21.3 (2)
	21.9
Oct.	
KIP	
7	00.9
8	01.2
	01.4
9	00.0
11	01.4
22	01.9
Oct.	
SLC	
30	20.5
Oct.	
SJ	
5	18.6
10	04.5
15	07.0
25	17.1
26	08.6
29	07.9
	21.3
30	06.2
Oct.	
SIT	
3	03.6
5	12.1
7	22.7
13	03.7
16	05.4
21	15.5
Oct.	
TUC	
2	00.5
	14.8
	14.9
3	02.2
4	04.6
5	12.9
7	00.2
	10.7
9	17.6
11	22.5
	22.8
12	05.1
13	08.9
14	05.6
15	11.8
18	06.9
19	13.8
20	14.0
22	14.1
26	10.4
	10.9
	11.0
	16.6

Date and Station	Phase (GCT)
TUC	h m s
26	21.7
29	05.1
	05.2
Oct.	
UK	
22	12.9
23	07.5
28	09.5

8-4297-4