

Section A

Meridian Astronomy

- (1) Transit Circle
- (2) Time Service
- (3) Variation of Latitude

SECTION A - TRANSIT-CIRCLE

INTRODUCTION

This section contains the last observations made with the Airy Transit-Circle. The instrument was brought into use at the beginning of 1851. The aperture is 8.1 inches and the focal length 11 feet 7 inches. A complete description of the instrument was given in the *Greenwich Observations* for 1852 and 1867. It was taken out of use after 1954 March 30.

Details of the more important alterations in the instrument are to be found in the volume for 1930. The adopted constants of the screws, division errors of the circle, etc., are also given there. Daylight illumination was used for the collimating telescopes until 1944 April 26 when artificial illumination was installed, so making it possible to measure collimation error at any time.

Regular observations were made of the Sun, Moon, major planets, certain bright minor planets and the necessary clock and azimuth stars until March 30.

Beginning with 1931 January 1 the system of right ascensions has been reduced by 0^s.05 which accords closely with the average correction to Newcomb's equinox found at a number of other observatories. Apart from this, the right ascensions are based on clock stars whose positions have been determined from observations made at Greenwich mainly in the years 1922-1940, brought forward with Newcomb's precessions and FK3 proper motions.

The declinations depend on an adopted latitude for the Transit-Circle of 51°28'38".30, Pulkova refractions, and a correction of 0".60 sin zenith distance for flexure.

The observed declinations of the Sun, Moon and planets have been corrected for the variation of latitude and for parallax. The value of the compression used is 1/297, and the angle of the vertical 11' 18". The adopted value of the logarithm of the geocentric radius, 9.9991106, includes allowance for height above sea level.

Both limbs have been observed when no entry is made in the column "Limb". The numbers 1, 2 and the letters N, S, C indicate that the first, second, north or south limb or the estimated centre of light was observed.

The value given under the heading "Horizontal Diameter" is not the true diameter, but the sidereal interval between the transits of the first and second limbs across the meridian.

When only one limb of a planet has been observed, the reduction to the centre has been made by application of the semi-diameter given in the *Nautical Almanac*. This does not apply to the Sun or Moon which are considered below.

When a defective limb has been observed, the correction for defective illumination, in the case of the Moon, is taken direct from the *Nautical Almanac*. For the planets, corrections have been computed from the data supplied therein.

All observations are compared, whenever possible, with the corresponding places given in the *Nautical Almanac*. These tabular places for the current year are derived from the following sources:-

Sun - Newcomb's Tables (*Astronomical Papers of the American Ephemeris*, Vol.VI, part I).

Moon - Brown's *Tables of the Motion of the Moon*.

Venus - Newcomb's Tables (*Astronomical Papers of the American Ephemeris*, Vol.VI, part III).

Mars - Newcomb's Tables (*Astronomical Papers of the American Ephemeris*, Vol.VI, part IV, with Ross's corrections given in Vol.IX, part II).

Jupiter and Saturn - Hill's Tables (*Astronomical Papers of the American Ephemeris*, Vol.VII, parts I and II).

Uranus and Neptune - Newcomb's Tables (*Astronomical Papers of the American Ephemeris*, Vol.VII, parts III and IV).

Minor Planets - Rectangular Co-ordinates of Ceres, Pallas, Juno, Vesta (*Astronomical Papers of the American Ephemeris*, Vol.XI, part IV).

Sun. - The observations of the Sun's centre are generally the means of those deduced from the observations of the two limbs; but when one limb only has been observed, the centre is deduced from that of the limb, by application of the semi-diameter given in the *Nautical Almanac*, corrected by the following quantities for personality deduced from observations made during the current year:-

	LS s	AM s	PG s	GS s
Horizontal	-.121 ₆	-.040 ₂	-.013 ₇	-.068 ₉
Vertical	-1.39 ₇	-0.84 ₂	+0.44 ₇	+0.63 ₉

The subscript numbers denote in each case the number of observations.

The mean of all the daily corrections to the tabular R.A. and Dec. of the Sun for each month is taken to be the correction for the day which is nearest to the mean of all the days of observation. When the same day is not found for R.A. and for Dec., an alteration of a unit or more has sometimes been made. From these the correction to longitude and latitude is deduced.

Moon. - Since 1923 January 1 the tabular places given in the *Nautical Almanac* have been based on Brown's *Tables of the Motion of the Moon*. Hansen's *Tables de la Lune* were used in the *Nautical Almanac* from 1862 to 1922, and included from 1883, corrections determined by Newcomb.

A comparison with theory of all observations of the Moon made with the Transit-Circle from its erection in January 1851 to December 1922 is given in the *Greenwich Observations* for 1920.

Dr. Cowell discussed the observations of the Moon made at Greenwich from 1750 to 1901 in a series of papers published in the *Monthly Notices of the Royal*

Astronomical Society between November 1903 and June 1905. The first observation of the series was on 1750 September 13 which is called lunar day 1 in his numeration. The lunar day is now printed, so as to preserve continuity with these investigations and to facilitate analysis of the Moon's errors. The lunar day on 1954 January 1 is No. 71740.

Since the beginning of 1905 the lunar crater Mösting A has been observed, as well as the Moon's limbs, whenever practicable, the observations of transits serving to connect the observations of the first and second limbs made before and after Full Moon respectively, while the observations of zenith distance in combination with similar observations made at the Cape Observatory have served to determine the parallax of the Moon. See *Monthly Notices, R.A.S.*, lxxi, pp. 526-540.

For Mösting A the correction to reduce to the centre of the Moon and the log horizontal parallax have been obtained by interpolation with second differences from the *Berliner Jahrbuch*.

From the observation of the limb, the centre is deduced by application of the semi-diameter taken from the *Nautical Almanac* corrected by $+1''.20$.

The R.A. and Dec. of the Moon's centre from observations of the limbs and the crater Mösting A are given, together with a comparison (O-C) of the places taken direct from the *Nautical Almanac*. The last two columns show the corrections required by the tabular places due to the Moon's motion in the interval between the observed and tabular times of transit.

After allowing for the correction due to motion the mean correction in R.A. to the tables for the year is derived, and a corresponding approximate correction deduced to Brown's mean longitude.

For 1954 these are $-5''.19$ and $-2''.9$ in R.A. and longitude respectively.

An error of $2''.9$ in the mean longitude will involve appreciable periodic terms in the true longitude. A correction of $-2''.9$ to the mean longitude can be easily introduced into the tabular R.A. and Dec. by the application of $-.088 \Delta\alpha$ to the R.A. and $-.088 \Delta\delta$ to the Dec. where $\Delta\alpha$ and $\Delta\delta$ are the variations in the Moon's R.A. and Dec. in one minute of time. The differences between the observed and tabular positions have therefore been corrected by these amounts and the final residuals in R.A. and Dec. were reduced to longitude and latitude. The results for individual observations have been printed separately, also the means for complete lunations and for the part-year. It is therefore necessary to add $-2''.9$ to the longitude correction in order to get the correction in longitude to the tabular values.

A comparison is given of the observations of Mösting A with those of the Moon's limb, from which the horizontal and vertical diameters of the Moon may be deduced.

TRANSIT-CIRCLE OBSERVERS

LS = Mr. Symms	PG = Dr. Gething
AM = Mr. Murray	GS = Mr. Satterthwaite

SECTION A
MERIDIAN ASTRONOMY

Transit-Circle

Sun, Moon and Planets

*Observed Right Ascensions,
Declinations and Diameters*

Compared with the Corresponding Results
of the Nautical Almanac, with Deduced Corrections
in Longitude and Latitude for the Sun and Moon

1954

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GREENWICH TRANSIT-CIRCLE OBSERVATIONS, 1954.

SUN

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Universal Time	Observer	Limb	Right Ascension		Limb	Declination		Diameter			
			Observed	O - C		Observed	O - C	Horizontal		Vertical	
								Observed	O - C	Observed	O - C
1954 d h			h m s	s		° ' "	"	m s	s	' "	"
Jan. 1 12	PG		18 45 54.36	-0.06		-23 1 36.54	-0.24	2 22.00	-0.04	32 37.02	+2.04
4 12	AM		18 59 8.36	+0.04		-22 45 0.88	-0.58	2 21.66	-0.10	32 32.93	-2.01
5 12	GS		19 3 32.30	+0.11		-22 38 33.27	+0.53	2 21.52	-0.12	32 37.85	+2.93
6 12	LS		19 7 55.71	+0.08		-22 31 40.61	-0.21	2 21.30	-0.22	32 32.55	-2.35
7 12	PG		19 12 18.62	+0.02		-22 24 20.81	-0.51	2 21.40	.00	32 36.79	+1.93
16 12	AM		19 51 19.54	+0.04		-20 58 58.86	+0.34	2 19.88	-0.06	32 32.79	-1.35
19 12	PG		20 4 7.93	+0.09		-20 23 11.02	-0.82	2 19.28	-0.08	32 33.40	-0.32
22 12	LS		20 16 49.59	+0.01		-19 43 53.16	+0.74	2 18.59	-0.15	32 30.92	-2.24
25 12	GS		20 29 24.59	+0.12		-19 1 20.13	-0.83	2 17.76	-0.32	32 32.67	+0.17
27 12	PG		20 37 43.97	+0.13		-18 31 9.49	+1.31	2 17.81	+0.17	32 33.08	+1.06
28 12	GS		20 41 52.33	.00		-18 15 34.36	+1.64	2 17.19	-0.23	32 32.73	+0.97
30 12	LS		20 50 6.93	+0.01		-17 43 26.52	+0.88	2 16.60	-0.36	32 27.29	-3.93
Feb. 3 12	LS		21 6 26.42	+0.02		-16 35 25.53	-0.13	2 15.78	-0.26	32 27.21	-2.85
6 12	GS		21 18 32.46	+0.04		-15 41 20.21	+0.39	2 15.26	-0.08	32 30.34	+1.20
20 12	LS		22 13 26.32	+0.10		-11 0 16.53	+1.27	2 12.12	-0.26	32 20.99	-2.93
22 12	LS		22 21 5.32	+0.04		-10 16 57.13	+1.27	2 11.80	-0.20	32 21.41	-1.63
25 12	PG	2	22 32 29.31	+0.04	..	-9 10 (49)	..	..	..	..	..
28 12	LS	1	22 43 48.16	+0.02	..	-8 3 24.58	-0.18	..	..	32 16.68	-3.54
Mar. 1 12	PG		22 47 33.42	+0.04		-7 40 40.54	+0.86	2 10.67	-0.15	32 20.67	+0.93
2 12	GS		22 51 18.21	+0.09		-7 17 48.95	+2.75	2 10.66	-0.02	32 22.21	+2.97
4 12	PG		22 58 46.32	+0.16		-6 31 53.89	-0.19	2 10.28	-0.12	32 18.08	-0.18
5 12	LS	1	23 2 29.49	+0.01	S	-6 8 48.28	-1.88	..	..	..	..
6 12	GS		23 6 12.53	+0.16		-5 45 34.07	-0.07	2 10.00	-0.14	32 17.31	+0.05
8 12	GS		23 13 36.93	+0.05		-4 58 56.13	-0.13	2 9.82	-0.08	32 17.60	+1.34
10 12	GS		23 20 59.96	+0.15		-4 12 2.68	+0.12	2 9.64	-0.06	32 16.45	+1.19
11 12	GS		23 24 40.92	+0.19		-3 48 29.37	+2.13	2 9.42	-0.18	32 15.33	+0.57
12 12	PG		23 28 21.40	+0.09		-3 24 57.43	+0.17	2 9.54	+0.04	32 14.97	+0.71
30 12	GS	2	0 33 59.42	+0.04	N	+3 40 0.09	-0.91	..	..	..	..

Jan. 5. Clouds passing. Limbs boiling throughout.
7. Very unsteady.
16. Limbs diffused and boiling.
19. Clouds passing.
22. Diffused; clouds passing.
25. Limbs extremely diffused and unsteady.
28. Limbs blurred. Clouds passing at times.
1L observed without dark slide.
30. Limbs boiling. Clouds passing.
Feb. 3. Diffused.
20. Clouds passing.

Feb. 22. Diffused.
25. Cloudy before 2L.
28. Diffused; clouds passing.
Mar. 1. Clouds passing.
2. Limbs boiling.
5. Disappeared into cloud.
6. Through cloud; limbs extremely diffused.
10. Extremely unsteady.
11. Limbs boiling.
30. Limbs boiling.

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GREENWICH TRANSIT-CIRCLE OBSERVATIONS, 1954.

A 9

SUN

MEAN MONTHLY CORRECTIONS TO NEWCOMB'S PLACE OF THE SUN AS GIVEN IN THE NAUTICAL ALMANAC

Mean Day of the Month	Observed - Computed				Number of Observations	
	R.A.	Dec.	Long.	Lat.	R.A.	Dec.
1954	s	"	"	"		
Jan. 16	+ .049	+0.19	+0.71	+0.06	12	12
Feb. 16	+ .046	+0.52	+0.81	+0.26	5	5
Mar. 8	+ .106	+0.14	+1.51	-0.49	9	9

When one limb only of the Sun has been observed, half-weight is given to
the observation in forming the above monthly means.

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GREENWICH TRANSIT-CIRCLE OBSERVATIONS, 1954.

MOON													
Universal Time	Observer	Limb	Observed R.A.		O - C		Limb	Observed Dec.		O - C		Correction for Motion	
			From Limb	From Mösting A	Limb	Mösting A		From Limb	From Mösting A	Limb	Mösting A	R.A.	Dec.
1954 d h			h m s	s	s	s		° ' "	"	"	"	s	"
Jan. 12 18	AM	1	1 51 24.51	..	-.09	..	S	+17 2 51.86	..	-0.64	..	.00	-.02
13 19	GS	1	2 50 14.28	14.24	-.20	-.24	S	+21 27 27.44	26.91	+1.14	+0.61	-.01	-.03
15 21	PG	1	4 55 1.11	1.04	-.23	-.30	S	+25 55 46.72	45.83	-0.28	-1.17	-.01	-.01
16 22	AM	1	5 58 5.72	5.63	-.13	-.22	N	+25 38 11.14	12.81	-2.06	-0.39	-.01	+0.01
17 23	GS	1	6 59 1.95	1.99	-.24	-.20	N	+23 43 29.74	29.69	-1.16	-1.21	-.01	+0.02
19 0	LS	1,2	7 56 27.56	27.57	-.25	-.24	N,S	+20 27 31.38	31.51	+0.28	+0.41	-.01	+0.04
25 4	AM	2	12 40 58.87	58.92	-.31	-.26	S	-10 2 47.67	45.40	+0.23	+2.50	-.01	+0.06
30 8	LS	2	16 57 33.61	..	-.18	..	..	-25 56 (14)	..	..	..	-.01	..
Feb. 10 18	AM	1	3 33 12.60	..	-.06	..	S	+23 41 40.44	..	-2.36	..	.00	-.01
13 21	AM	1	6 38 24.82	24.75	-.12	-.19	N	+24 30 50.37	51.45	-2.63	-1.55	-.01	+0.01
21 2	AM	2	12 23 25.44	..	-.24	..	S	- 7 57 58.31	..	+1.69	..	-.01	+0.05
22 3	GS	2	13 8 48.68	48.64	-.18	-.22	S	-12 52 50.03	49.87	-0.43	-0.27	-.01	+0.04
24 5	PG	2	14 45 9.60	9.57	-.25	-.28	S	-20 58 40.71	39.20	-0.71	+0.80	-.01	+0.04
Mar. 10 17	GS	1	4 15 28.33	..	-.09	..	S	+24 59 38.58	..	-2.12	..	.00	-.01
11 18	LS	1	5 18 51.34	..	-.12	..	S	+25 47 10.38	..	+0.78	..	-.01	.00
12 19	PG	1	6 20 24.45	..	-.13	..	N	+24 54 37.31	..	-0.09	..	-.01	+0.01
27 6	GS	2	18 4 19.86	..	-.06	..	N	-25 8 34.80	..	-1.80	..	.00	.00

Jan. 13. Very well defined.
17. Very unsteady; limbs blurred.
25. Limbs diffused and boiling.
30. Extremely faint.

Feb. 10. Through cloud.
22. Very unsteady indeed and very ill defined.
Mar. 10. Extremely well defined.

Mösting A

Jan. 17. Well defined. Jan. 25. Unsteady.

OBSERVED HORIZONTAL AND VERTICAL DIAMETERS

Universal Time	Observer	Horizontal Diameter		Vertical Diameter	
		Observed	O - C	Observed	O - C
1954 d h		m s	s	' "	"
Jan. 19 0	LS	2 17.03	-.15	30 52.25	-4.29

MOON

DEDUCED CORRECTIONS IN LONGITUDE AND LATITUDE TO BROWN'S "TABLES OF THE MOON"

The observed corrections to the tabular R.A. and Dec. of the Nautical Almanac are shown in the preceding pages. In R.A. they give a mean correction to the tables, obtained from complete lunations ending in the year, of -8.19 . This corresponds approximately to $-2''.9$ in mean longitude.

In order to allow for small periodic changes due to elliptic and other inequalities in the Moon's motion introduced by this correction to the mean longitude, corrections to the computed right ascension and declination have been deduced by retarding the Moon's predicted position $2''.9$ in mean longitude and making the corresponding corrections to the N.A. positions in R.A. and Dec. of $-.088\Delta\alpha$ and $-.088\Delta\delta$.

$\Delta\alpha$ and $\Delta\delta$ are the variations of the Moon's R.A. and Dec. in 1 minute of time.

The following residuals therefore represent the corrections to Brown's tables in R.A., Dec., deduced longitude and latitude after a correction of $-2''.9$ has been made to the tabular mean longitude.

The time of the new moon (●) is Universal Time.

RESIDUALS (O - C) AFTER CORRECTING BROWN'S TABLES FOR A DECREASE IN MEAN LONGITUDE OF $2''.9$

Universal Time	Lunar Day	Observed - Computed							
		R.A.		Declination		Longitude		Latitude	
1953-54		Limb	Mösting A	Limb	Mösting A	Limb	Mösting A	Limb	Mösting A
d h m		s	s	"	"	"	"	"	"
Dec. 6 10 48	●								
Dec. 17 21 27	71726	+15	+03	-0.4	-2.0	+1.9	-0.1	-0.9	-2.0
24 3 3	732		+07		-1.8		+1.5		-1.4
25 3 48	733	-08	-09	+0.9	+0.2	-1.4	-1.3	+0.4	-0.2
26 4 29	734	-15	-08	+1.9	+0.2	-2.8	-1.2	+0.9	-0.3
27 5 9	735	-08	-03	-0.1	-0.2	-1.0	-0.4	-0.6	-0.3
29 6 30	737	-09		+2.0		-2.0		+1.4	
Jan. 5 2 21	●								
Jan. 12 18 25	71751	+12		+0.5		+1.8		-0.2	
13 19 19	752	+03	-01	+2.0	+1.5	+1.0	+0.3	+1.8	+1.4
15 21 16	754	+01	-06	-0.2	-1.0	+0.1	-0.9	-0.2	-0.9
16 22 15	755	+11	+02	-2.3	-0.6	+1.5	+0.3	-2.3	-0.6
17 23 12	756	-01	+03	-1.8	-1.8	0.0	+0.6	-1.8	-1.8
19 0 5	757	-04	-03	-0.6	-0.5	-0.4	-0.3	-0.7	-0.5
25 4 25	763	-13	-08	-0.9	+1.4	-1.4	-1.6	-1.6	+0.8
Feb. 3 15 55	●								
Feb. 10 18 12	71779	+17		-1.8		+1.8		-2.3	
13 21 5	782	+11	+04	-3.1	-2.0	+1.7	+0.7	-3.0	-2.0
21 2 22	789	-07		+0.5		-1.2		+0.1	
22 3 3	790	.00	-04	-1.5	-1.3	+0.6	0.0	-1.4	-1.5
24 4 31	792	-05	-08	-1.5	0.0	-0.2	-1.1	-1.6	-0.3
Mar. 5 3 11	●								
Mar. 10 17 4	71806	+14		-1.8		+1.6		-2.1	
11 18 3	807	+12		+0.8		+1.7		+0.7	
12 19 1	808	+10		-0.5		+1.4		-0.4	
27 5 48	822	+15		-1.5		+2.0		-1.6	
Apr. 3 12 25	●								

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MOON

CORRECTIONS TO THE MOON'S CENTRE IN R.A., DEC., LONGITUDE AND LATITUDE FROM OBSERVATIONS OF THE LIMB AND THE CRATER MÖSTING A AFTER A CORRECTION OF -2".9 HAS BEEN MADE TO THE TABULAR MEAN LONGITUDE

(Means for each complete lunation ending in the year 1954)

Extent of Lunation	No. of Obs.		Observed - Computed							
	Limb	Möstring A	R.A.		Declination		Longitude		Latitude	
1953-54			Limb	Möstring A	Limb	Möstring A	Limb	Möstring A	Limb	Möstring A
			s	s	"	"	"	"	"	"
Dec. 17 to Dec. 29	5	5	-0.05	-0.02	+0.9	-0.7	-1.1	-0.3	+0.2	-0.9
Jan. 12 to Jan. 25	7	6	+0.01	-0.02	-0.5	-0.2	+0.4	-0.3	-0.7	-0.3
Feb. 10 to Feb. 24	5	3	+0.03	-0.03	-1.5	-1.1	+0.6	-0.2	-1.6	-1.2
Mar. 10 to Mar. 27	4	..	+0.13	..	-0.7	..	+1.7	..	-0.8	..

MEANS FOR THE YEAR 1954

	No. of Obs.	R.A.	Declination	Longitude	Latitude
		s	"	"	"
Limb	21	+0.024	-0.44	+0.31	-0.73
Möstring A	14	-0.022	-0.57	-0.26	-0.69

The above mean corrections to Brown's tables have been derived after correcting the tabular positions in R.A. and Dec. by retarding the Moon's predicted position 2".9 in mean longitude.

The mean correction therefore to the tables for the year 1954 is:-

	Longitude	Latitude
	"	"
Limb	-2.59	-0.73
Möstring A	-3.16	-0.69

Note. - If Newcomb's equinox is adopted, the mean correction to Brown's tables in longitude becomes:-

	"
Limb	-1.92
Möstring A	-2.49

The corrections to Brown's tables given in the Greenwich Observations from 1923 to 1930 are based on Newcomb's equinox.

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MOON

DEDUCTION OF A CORRECTION TO THE TABULAR HORIZONTAL DIAMETER FROM A COMPARISON OF THE OBSERVATIONS OF THE FIRST AND SECOND LIMB WITH THOSE OF THE CRATER MÖSTING A

Date	Observer	Observed minus Computed			Date	Observer	Observed minus Computed		
		Mösting A	☾ 1L	Mösting A minus ☾ 1L			☾ 2L	Mösting A	☾ 2L minus Mösting A
1954		s	s	s	1954		s	s	s
Jan. 13	GS	-.24	-.20	-.04	Jan. 19	LS	-.33	-.24	-.09
15	PG	-.30	-.23	-.07	25	AM	-.31	-.26	-.05
16	AM	-.22	-.13	-.09	Feb. 22	GS	-.18	-.22	+.04
17	GS	-.20	-.24	+.04	24	PG	-.25	-.28	+.03
19	LS	-.24	-.18	-.06					
Feb. 13	AM	-.19	-.12	-.07					
			Mean	-.048				Mean	-.018

Assuming that the effect of any error in the adopted Physical Libration of the Moon will disappear in the mean of these quantities, and allowing for the fact that the Tabular Diameter has been increased by $+.5160$, the correction to the Moon's Tabular Horizontal Diameter

$$\begin{matrix} s & s & s & s \\ = & +.160 & -.048 & -.018 & = & +.094 \end{matrix}$$

This result is independent of any error in the assumed selenographical position of the crater. The observations indicate that the Tabular R.A. of the crater, relatively to the Moon's centre, requires to be increased by

$$\begin{matrix} s & s & s \\ \frac{1}{2} & (-.048 & +.018) & = & -.015 \end{matrix}$$

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MOON

DEDUCTION OF A CORRECTION TO THE TABULAR VERTICAL DIAMETER FROM A COMPARISON OF THE OBSERVATIONS OF THE NORTH AND SOUTH LIMB WITH THOSE OF THE CRATER MÖSTING A

Date	Observer	Observed minus Computed			Date	Observer	Observed minus Computed		
		Mösting A	☾ NL	☾ NL minus Mösting A			☾ SL	Mösting A	Mösting A minus ☾ SL
1954		"	"	"	1954		"	"	"
Jan. 16	AM	-0.39	-2.06	-1.67	Jan. 13	GS	+1.14	+0.61	-0.53
17	GS	-1.21	-1.16	+0.05	15	PG	-0.28	-1.17	-0.89
19	LS	+0.41	-1.86	-2.27	19	LS	+2.43	+0.41	-2.02
Feb. 13	AM	-1.55	-2.63	-1.08	25	AM	+0.23	+2.50	+2.27
					Feb. 22	GS	-0.43	-0.27	+0.16
					24	PG	-0.71	+0.80	+1.51
			Mean	-1.24				Mean	+0.08

Assuming that the effect of any error in the adopted Physical Libration of the Moon will disappear in the mean of these quantities, and allowing for the fact that the Tabular Diameter has been increased by +2".40, the correction to the Moon's Tabular Vertical Diameter

" " " "

$$= +2.40 \quad -1.24 \quad +0.08 \quad = +1.24$$

This result is independent of any error in the assumed selenographical position of the crater. The observations indicate that the Tabular Declination of the crater, relatively to the Moon's centre, requires to be increased by

" " "

$$\frac{1}{2} (+1.24 \quad +0.08) = +0.66$$

1961GR0.....6A.

GREENWICH TRANSIT-CIRCLE OBSERVATIONS, 1954.

A 15

MAJOR PLANETS

19

Universal Time	Observer	Limb	Right Ascension		Limb	Declination		Diameter				
			Observed	O - C		Observed	O - C	Horizontal		Vertical		
								Observed	O - C	Observed	O - C	
VENUS												
1954 d h			h m s	s		° ' "	"	s	s	"	"	
Jan. 4 12	AM		18 32 40.67	+1.12		-23 33 38.99	-2.29	0.47	-.25	10.52	+0.60	
5 12	GS		18 38 10.37	+0.06		-23 31 15.41	+3.29	1.17	+0.45	10.45	+0.55	
Mar. 12 13	PG		0 7 38.51	+1.15		- 0 33 50.37	+1.83	0.70	+0.04	9.65	-0.35	
30 13	GS	2	1 29 34.99	+0.07	S	+ 8 31 51.40	-0.70	..	..	..	..	
MARS												
Mar. 27 5	GS		17 30 33.45	-.02		-23 2 38.17	+2.43	0.85	+0.17	13.86	+4.50	
JUPITER												
Jan. 4 22	AM		5 10 26.34	-.11		+22 29 57.35	-0.45	3.40	+0.02	45.71	+1.93	
5 22	GS		5 9 57.92	-.16		+22 29 34.61	-0.39	3.59	+0.21	44.94	+1.24	
15 21	PG		5 5 49.28	-.09		+22 26 15.80	-2.30	3.36	+0.06	45.31	+2.49	
16 21	AM		5 5 28.28	-.06		+22 26 0.20	-2.10	3.24	-.06	42.77	+0.05	
17 21	GS		5 5 8.01	-.04		+22 25 45.97	-1.33	3.41	+0.11	43.94	+1.32	
30 20	LS		5 1 56.62	-.11		+22 24 0.49	-0.41	3.09	-.09	42.25	+1.11	
Feb. 8 20	PG	..	5 1 (8)	..		+22 24 35.81	-1.99	..	..	41.43	+1.41	
13 19	AM		5 1 11.68	-.04		+22 25 37.57	-2.13	3.04	.00	40.00	+0.62	
Mar. 2 18	GS		5 4 1.78	-.10		+22 32 36.66	-1.14	2.80	-.08	38.04	+0.78	
8 18	GS		5 5 57.27	-.05		+22 36 9.22	-1.68	2.88	+0.06	37.67	+1.13	
10 18	GS		5 6 41.80	-.03		+22 37 25.87	-1.93	2.82	+0.02	37.89	+1.59	
11 18	LS		5 7 5.10	-.07		+22 38 6.00	-1.30	2.66	-.14	36.49	+0.29	
30 17	GS		5 16 35.75	+0.05		+22 51 57.95	-1.45	2.68	+0.04	34.64	+0.46	
SATURN												
Feb. 24 4	PG		14 30 59.89	-.20		-12 9 54.01	+0.39	1.20	-.02	18.96	+2.98	

Venus - Jan. 4. Very ill defined and unsteady.
5. Very faint; clouds passing throughout.
Mar. 12. Very diffused.
30. Clouds passing; very unsteady indeed.
Jupiter - Jan. 5. Diffused at times; very unsteady.

Jupiter - Jan. 17. Very unsteady.
30. Diffused.
Feb. 8. Faint at times.
Mar. 2. Through cloud.
8. Through thick cloud; barely visible at times.
10. Cloudy at first.
30. Quite steady.

1961GR0.....6A.

GREENWICH TRANSIT-CIRCLE OBSERVATIONS, 1954.

196160

MAJOR PLANETS												
Universal Time	Observer	Limb	Right Ascension		Limb	Declination		Diameter				
			Observed	O - C		Observed	O - C	Horizontal		Vertical		
								Observed	O - C	Observed	O - C	
URANUS												
1954 d h			h m s	s		° ' "	"	s	s	"	"	
Jan. 25 23	GS	C	7 28 49.68	+0.01	..	+22 22 (38)	..	..	..	..	..	..
30 23	LS	C	7 27 57.38	-0.10	C	+22 24 27.60	-0.30	..	..	..	..	..
Feb. 5 22	AM	C	7 26 57.80	-0.11	C	+22 26 31.59	+0.79	..	..	..	..	..
13 22	AM	C	7 25 45.24	-0.07	C	+22 28 55.54	-1.36	..	..	..	..	..
26 21	LS	C	7 24 8.48	-0.06	C	+22 32 5.24	+0.84	..	..	..	..	..
Mar. 5 21	LS	C	7 23 29.28	-0.05	C	+22 33 17.70	+0.90	..	..	..	..	..
10 20	GS	C	7 23 7.43	-0.10	C	+22 33 54.16	-1.14	..	..	..	..	..
12 20	PG	C	7 23 0.34	+0.03	C	+22 34 7.97	+0.27	..	..	..	..	..
NEPTUNE												
Feb. 22 4	GS	C	13 38 31.44	-0.54	C	- 8 23 15.97	+2.13	..	..	..	..	..
Uranus - Jan. 25. Very faint, through clouds. Mar. 10. Well defined but unsteady. 12. Barely visible at times.												
Neptune - Feb. 22. Only visible with illumination as low as possible.												

1961GR0.....6A.

GREENWICH TRANSIT-CIRCLE OBSERVATIONS, 1954.

A 17

1961G00

MINOR PLANETS					
Universal Time	Observer	Right Ascension		Declination	
		Observed	O - C	Observed	O - C
CERES					
1954 d h		h m s	s	° ' "	"
Jan. 25 5	AM	13 6 30.03	-.26	+ 7 28 17.63	+0.30
PALLAS					
Mar. 5 22	LS	9 20 39.52	-.32	- 7 55 36.61	-1.46
10 22	GS	9 18 54.71	-.37	- 5 41 39.53	-2.11
30 21	GS	9 19 6.70	-.36	+ 2 30 6.41	-1.60
JUNO					
Feb. 26 23	LS	8 58 (52)	..	+ 7 13 3.41	-0.67
Mar. 5 22	LS	8 55 23.45	-.14	+ 8 21 20.52	+1.76
10 22	GS	8 53 41.06	-.17	+ 9 6 32.64	-1.72
30 20	GS	8 53 39.86	-.14	+11 29 10.73	+0.19
CERES, PALLAS and JUNO - The computed positions are for observed time of transit and have been interpolated from the O ⁿ ephemerides given in the Nautical Almanac.					
Ceres - Jan. 25. Extremely faint.					
Pallas - Mar. 5. Faint.					
10. Unsteady.					
Juno - Feb. 26. Very faint; clouds passing.					
Juno - Mar. 5. Barely visible.					
10. Faint.					
30. Barely visible; illumination as faint as possible.					

SECTION A
MERIDIAN ASTRONOMY

Time Service

Observations
with Reversible Transit
and Wireless Time Signals
1954

INTRODUCTION

The tables contained in this volume are a continuation of those in the 1953 volume for the second half of the year.

Small Transit C continued in use at Greenwich for the determination of clock corrections, but was transferred from the Altazimuth dome to the Courtyard dome on 1954 January 1. On 1954 June 11, the micrometer on Small Transit C was replaced by that which had been in use on Small Transit B from 1946 August to 1953 September, with the gearing altered so that the micrometer had to be turned twice as fast as before. Observations for time determination were made by Messrs. C. Harris (CH), Corben (PC) and Lowne (CL).

The Bamberg Broken Transit was in use throughout the year at Abinger, the observers being Messrs. Tucker (RT), Rudd (JR), Cordwell (AC), O'Hara (NH), Willmoth (PW) and D. Smith (DS).

The adopted longitudes were:-

Greenwich, Courtyard dome	$0^h 0^m 0^s.020$ West
Abinger, Bamberg dome	$0 1 32.773$ West

Only one observer correction was applied, namely, +30 msec. for observer AC.

Table I is a continuation of Table Ia of the second half of 1953. This table gives a summary of the observations for time determination made at Greenwich and Abinger throughout the year. The quantities tabulated for each observation are: date, U.T., observer, adopted level and azimuth, numbers of south and north stars observed, the residual clock correction from Greenwich Mean Time, and the residual clock correction from Provisional Uniform Time (P.U.T.).

Table II is a continuation of Table IIa of the second half of 1953. This table contains the reception times (P.U.T.) of the radio time signals and of the seconds pulses superposed on the standard frequency transmissions received at Abinger throughout the year.

A value 052 signifies that the signal was *late* by $0^s.052$, while a value 952 indicates that the signal was *early* by $0^s.048$. The signal errors are small enough to leave no doubt as to whether the signal was early or late. The results refer to a mean signal, and are based upon reception at Abinger.

Greenwich Mean Time is not uniform because of the effects of Polar Variation and an apparent Annual Fluctuation in the rate of rotation of the earth. Corrections have been adopted for these effects and have been applied to Greenwich Mean Time to obtain Provisional Uniform Time. These corrections are tabulated at intervals of five days. The table includes the corresponding reception times of the GBR 1000 signals referred to both time systems, G.M.T. and P.U.T., in order to make clear the sense of the corrections, and to enable results published on either system to be related to the other.

TABLE I. - SUMMARY OF OBSERVATIONS MADE AT GREENWICH WITH THE REVERSIBLE SMALL TRANSIT C
FOR THE DETERMINATION OF CLOCK CORRECTIONS

Date	U.T.	Observer	Level		Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual	Date	U.T.	Observer	Level		Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual
			From	To		South	North						From	To		South	North		
1954	h		"	"	"			s	s	1954	h		"	"	"			s	s
Jan. 1	17.2	CH	-1.27	-1.68	-48.79	6	6	-.043	-.047	Apr. 6	04.5	CL	-0.69	-0.93	-1.17	6	6	+0.033	-.014
5	21.1	CL	+0.02	-0.10	-46.40	6	6	-.040	-.046	6	19.2	CH	+1.44	+0.69	-1.01	6	6	-.019	-.066
12	17.5	PC	+0.31	-0.04	+5.20	6	5	+.001	-.008	7	20.8	CL	+1.66	+1.43	-0.20	6	6	+.009	-.038
13	18.7	CH	-1.12	-1.29	+6.58	6	6	.000	-.009	8	03.7	CH	+1.05	+1.14	+1.10	6	6	+.035	-.012
13	20.8	CL	-1.42	-1.27	+7.16	6	6	-.018	-.027	8	04.5	CH	+1.14	+0.86	-1.41	7	5	+.015	-.032
15	17.8	CH	-0.25	-0.50	+4.65	3	5	-.111	-.122	8	19.1	CH	+2.52	+1.93	-2.60	6	6	+.002	-.045
15	20.8	CL	-1.07	-1.64	+6.85	6	6	-.009	-.020	9	04.4	CL	+1.02	+0.85	-1.85	6	6	+.025	-.022
16	17.0	PC	-0.31	-0.31	+7.50	6	6	-.034	-.045	9	22.0	CH	+0.52	+0.18	+0.44	6	6	+.012	-.036
16	21.1	CH	-1.21	-1.32	+8.12	6	6	-.054	-.065	10	04.1	PC	+0.72	+0.78	+0.50	5	5	+.033	-.015
18	17.2	CH	-0.38	-0.17	+4.83	4	3	+.036	+.026	10	04.8	PC	+0.74	+0.80	-0.54	5	4	+.015	-.033
22	17.4	PC	-2.71	-2.90	+40.74	6	6	-.002	-.014	10	19.9	CL	+1.95	-0.07	+1.61	6	6	-.006	-.054
22	19.3	CH	-1.03	-1.13	+1.37	6	6	-.018	-.030	11	04.1	PC	+0.85	+0.50	-0.40	6	6	+.063	+.015
24	22.5	CH	+0.18	+0.10	+1.86	6	6	+.004	-.010	12	20.7	CH	+1.51	+1.10	-1.64	6	6	-.010	-.058
25	20.8	CL	+1.11	+1.31	+1.77	3	4	+.004	-.010	13	04.1	PC	+0.60	+0.60	-1.25	6	6	+.015	-.033
27	22.7	CH	+1.69	+1.07	+2.07	6	6	-.006	-.021	13	20.0	CL	+1.20	+0.64	-0.33	6	6	-.042	-.090
30	17.0	CH	+0.57	-0.03	+23.29	6	6	-.032	-.047	14	03.4	CH	+0.87	+0.87	-0.70	6	6	+.014	-.034
31	06.0	PC	-0.07	-0.07	+23.23	6	6	+.002	-.014	14	04.3	CH	+0.87	+0.87	-0.84	6	6	+.025	-.023
Feb. 1	06.6	CH	-0.01	-0.10	+22.25	4	5	.000	-.016	15	19.6	CH	+0.90	-0.42	+0.39	6	6	-.067	-.115
6	06.2	PC	0.00	0.00	+23.93	6	6	+.032	+.015	15	20.4	CH	-0.31	-0.48	+0.27	6	6	-.022	-.070
6	17.5	CL	+1.55	+1.39	+21.72	6	5	+.009	+.008	16	19.8	PC	+0.47	-0.13	+0.79	6	6	-.051	-.009
7	21.1	CH	+0.77	+1.07	+20.22	6	6	-.039	-.056	18	03.5	CH	+1.11	+0.65	+1.15	6	6	-.011	-.037
8	19.2	CH	+0.57	+0.57	+20.85	5	2	-.012	-.031	18	04.6	CH	+0.76	+0.65	-0.22	6	6	.000	-.048
13	18.5	PC	+0.27	-0.12	+20.05	6	6	-.003	-.022	20	04.2	CH	+1.57	+1.00	-0.09	6	6	-.018	-.065
20	18.8	CH	-0.26	-0.26	+19.99	6	6	-.028	-.049	21	03.6	CL	+1.30	+0.60	+0.30	6	6	-.033	-.080
22	06.1	CH	-1.21	-0.82	+21.33	6	6	+.046	+.025	21	19.6	CH	+3.13	+1.95	-1.55	6	6	-.019	-.066
23	19.5	CH	-0.98	-1.42	+22.03	6	5	+.029	+.006	22	03.7	PC	+1.04	+0.74	+0.01	6	6	-.019	-.066
24	06.0	CH	-1.97	-1.46	+22.67	6	6	+.035	+.012	22	19.8	CL	+1.72	+0.62	-0.93	5	6	-.069	-.116
24	20.6	CL	-1.23	-1.64	+24.24	3	3	-.012	-.035	24	20.7	CH	+1.66	+0.81	-3.00	5	5	-.013	-.059
26	18.5	CH	-0.73	-1.44	+20.24	6	6	+.001	-.022	26	19.6	PC	-0.81	-1.70	-13.43	6	6	-.008	-.054
27	19.4	CL	-0.92	-1.10	+20.94	5	6	-.026	-.049	27	03.5	CL	-1.77	-2.57	-11.78	6	6	-.034	-.080
Mar. 4	00.0	PC	-0.35	-0.65	+21.37	6	6	+.007	-.018	27	21.0	CH	-0.84	-1.64	-12.06	6	6	-.008	-.054
4	05.2	CL	-0.66	-0.84	+23.30	6	6	+.003	-.022	28	03.8	PC	-2.45	-2.62	-13.68	6	6	+.009	-.037
5	20.7	CL	+1.07	+0.97	+0.79	6	6	-.052	-.078	28	20.5	CL	-0.93	-1.61	-14.16	6	6	-.037	-.083
6	05.8	CH	+0.82	+0.82	-0.42	4	3	+.046	+.020	29	03.4	CH	-1.48	-2.78	-14.50	4	5	+.001	-.045
10	18.1	CH	+1.60	+0.68	-4.33	6	6	+.048	+.022	29	20.4	PC	-0.44	-1.18	-15.84	6	6	-.024	-.070
11	05.1	PC	+0.10	-0.09	-1.47	5	5	+.007	-.020	30	03.3	CL	-2.17	-2.54	-12.23	6	6	-.031	-.076
11	20.7	CL	+0.30	-0.67	-0.07	6	6	-.016	-.043	30	19.6	CH	-0.53	-1.96	-13.62	6	6	-.052	-.097
12	05.4	CH	-0.34	-0.56	-1.74	6	6	+.043	+.016	30	20.7	CH	-1.90	-2.24	-13.57	5	5	-.023	-.068
12	06.2	CH	-0.58	-0.59	-1.08	6	5	+.052	+.025	May 4	21.8	CL	-1.09	-1.67	-15.43	5	5	-.033	-.078
12	19.4	PC	+0.97	-0.32	-0.80	6	6	-.011	-.038	5	03.3	CH	-1.58	-1.58	-15.74	5	5	-.039	-.083
20	22.8	CH	+0.39	-0.03	-3.00	6	6	-.026	-.055	5	04.1	CH	-1.58	-1.58	-15.68	5	4	-.034	-.078
22	22.8	CH	+0.22	+0.52	-4.38	5	5	+.005	-.025	6	03.3	CL	-1.99	-1.99	-14.74	6	6	-.064	-.107
26	20.8	CL	-0.58	-1.08	-2.04	6	6	-.044	-.074	6	20.9	CH	-1.35	-1.67	+6.55	6	6	-.013	-.056
27	04.5	CH	-0.82	-0.82	-2.55	6	6	+.017	-.013	7	03.7	PC	-1.66	-1.66	+7.47	4	5	+.021	-.022
27	05.4	CH	-0.82	-0.82	-2.47	6	6	+.002	-.028	8	03.1	CH	-2.00	-1.50	+10.18	6	6	-.021	-.064
27	21.1	PC	-0.08	-0.40	-2.86	4	3	+.005	-.025	8	04.0	CH	-1.51	-1.59	+9.54	6	6	-.019	-.062
30	19.8	PC	+0.33	-0.62	-2.20	6	6	-.056	-.086	8	20.3	PC	-0.66	-1.22	+20.73	6	6	-.016	-.059
31	19.4	CH	+2.28	+1.69	+0.83	6	6	-.024	-.054	9	03.1	CH	-0.27	-0.27	+20.54	6	6	-.029	-.072
Apr. 1	04.8	PC	+1.54	+1.30	-0.44	6	6	+.042	-.005	9	04.0	CH	-0.27	-0.27	+20.45	5	5	-.032	-.075
1	21.1	CL	+1.62	+1.62	+0.38	6	6	-.018	-.065	10	20.4	CL	+0.59	-0.02	+18.68	6	6	-.039	-.081
5	04.0	CH	-0.01	-0.22	+1.54	6	5	+.026	-.022	11	03.1	CH	-0.47	-0.59	+18.72	6	6	-.017	-.059
5	04.9	CH	-0.18	-0.23	+0.02	5	3	+.064	+.017	11	03.8	CH	-0.54	-0.67	+19.36	6	6	-.036	-.078
										11	20.6	PC	-0.92	-1.32	-2.00	6	6	-.055	-.097
										12	03.2	CL	-2.29	-2.29	-0.61	6	6	-.049	-.091
										12	21.6	CH	-1.68	-2.48	-0.94	6	6	-.019	-.061
										17	22.7	PC	-1.11	-1.97	-1.46	6	6	-.033	-.072
										26	21.2	CH	-0.66	-1.45	-16.24	6	6	-.016	-.050

TABLE I. - SUMMARY OF OBSERVATIONS MADE AT GREENWICH WITH THE REVERSIBLE SMALL TRANSIT C
FOR THE DETERMINATION OF CLOCK CORRECTIONS

Date	U.T.	Observer	Level		Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual	Date	U.T.	Observer	Level		Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual
			From	To		South	North						From	To		South	North		
1954	h		"	"	"			s	s	1954	h		"	"	"			s	s
June 3	20.8	CL	+0.55	-0.30	-20.23	2	4	-0.050	-0.077	Sept. 1	03.4	PC	-0.66	-0.66	-4.85	6	6	-0.031	+0.027
4	21.2	CH	+0.77	-0.23	-20.50	6	6	-0.012	-0.038	1	20.2	CL	+0.06	-0.69	-6.14	6	6	-0.058	.000
5	02.5	CH	-0.55	-0.43	-19.60	6	6	+0.005	-0.020	4	20.7	CL	+0.04	-0.14	-5.87	6	6	-0.027	+0.031
20	21.0	CH	-0.47	-1.95	-20.16	6	6	-0.033	-0.043	7	04.3	PC	0.00	0.00	-7.08	6	6	-0.036	+0.023
21	02.8	CH	-1.95	-1.95	-22.96	6	6	+0.009	.000	7	20.1	CL	+0.53	-0.39	-5.61	5	5	-0.022	+0.037
23	20.9	CH	-1.72 -2.43	-2.40	-24.63	6	6	-0.041	-0.047	8	19.6	PC	+0.87	+0.87	-9.27	6	6	+0.006	+0.065
24	02.8	CH	+1.96	+1.49	-51.77	6	6	-0.039	-0.045	10	21.6	CL	+0.25	+0.25	-8.11	6	6	-0.007	+0.052
26	21.8	CH	+1.94	+1.75	-51.67	6	6	.000	-0.003	11	19.3	PC	+0.42	+0.12	-8.70	6	6	+0.014	+0.073
29	22.2	CH	+2.95	+2.58	-51.82	6	6	+0.001	-0.001	13	04.3	PC	+0.22	+0.22	-7.30	6	6	+0.012	+0.071
30	21.2	CL	+2.23	+0.76	-49.50	6	6	-0.007	-0.010	14	04.4	CH	+0.39	+0.39	-7.30	6	6	-0.017	+0.042
										14	19.4	PC	+1.59	+0.08	-8.00	6	6	+0.032	+0.091
										15	19.9	CH	+1.39	+0.59	-8.35	6	6	-0.016	+0.043
										16	21.0	CL	+0.04	-0.37	-5.40	6	6	-0.034	+0.026
July 2	22.3	CH	+2.17	+2.17	-51.72	6	6	+0.019	+0.017	17	18.9	PC	+1.50	+0.92	-8.98	6	6	+0.039	+0.099
5	02.8	CL	+1.88	+1.94	-50.31	6	6	+0.016	+0.018	20	05.0	CH	+0.26	-0.12	-8.50	6	6	-0.010	+0.049
6	23.0	CL	+2.32	+2.32	-50.40	6	6	-0.015	-0.012	20	18.7	PC	+1.68	+0.81	-9.11	6	6	+0.007	+0.066
7	22.9	PC	+1.76	+1.56	-5.52	6	6	+0.012	+0.017	21	04.5	CL	+0.73	+0.73	-7.16	6	6	-0.028	+0.030
8	02.8	CL	+1.62	+1.47	-3.65	6	6	-0.014	-0.008	21	18.4	CH	+1.80	+1.42	-9.24	6	6	.000	+0.059
12	21.8	CL	+0.39	-0.87	-5.16	6	6	-0.043	-0.032	22	20.6	CL	+0.98	+0.98	-7.06	6	6	-0.010	+0.049
14	20.5	CH	+1.38	-0.21	-5.20	6	6	+0.029	+0.042	23	05.0	CH	+0.81	+1.17	-8.20	6	5	+0.017	+0.076
19	02.7	CH	+0.73	+0.08	-6.88	5	5	.000	+0.020	27	18.3	CH	+1.39	+0.19	-5.91	5	5	-0.009	+0.049
19	03.2	CH	+0.19 0.00	+0.17	-5.13	4	4	+0.012	+0.032	28	20.2	CL	+0.16	-0.08	-5.00	6	6	-0.019	+0.039
19	23.2	PC	+1.45	+0.71	-6.21	6	6	+0.029	+0.049	29	18.9	PC	+2.36	+1.41	-7.40	6	6	+0.039	+0.096
20	02.7	CL	+0.70	+0.79	-4.68	6	5	-0.018	+0.003	30	21.1	CH	+1.97	+2.63	-8.38	6	6	+0.031	+0.088
21	21.4	CL	+0.20	-1.54	-4.54	6	6	-0.015	+0.007										
22	22.0	PC	+0.52	+0.52	-5.00	6	6	-0.040	-0.017	Oct. 2	18.4	PC	+1.60	+0.67	-8.50	6	6	+0.020	+0.078
26	20.7	CH	+1.58	+1.32	-7.46	5	5	+0.004	+0.032	4	04.9	PC	-0.09	-0.58	-7.60	5	5	+0.038	+0.095
27	03.4	PC	+0.53	+0.67	+4.70	6	6	-0.029	+0.001	6	18.0	CH	+0.39	-1.36	-6.00	6	6	-0.033	+0.022
27	21.1	CL	+1.48	+0.80	-4.82	6	6	+0.008	+0.038	7	05.2	PC	-0.76	-1.12	-5.42	6	6	-0.020	+0.035
28	22.4	PC	+1.52	+1.52	-7.88	6	6	+0.018	+0.049	7	17.9	CL	+0.73	-0.25	-5.00	6	6	-0.041	+0.014
										8	05.0	CH	+0.81	+1.27	-5.00	5	5	+0.004	+0.058
										11	21.5	PC	+1.40	+1.00	-7.24	6	6	-0.017	+0.037
Aug. 4	22.2	CH	-0.17	-0.63	-5.51	5	4	-0.011	+0.027	12	04.9	CL	+0.62	+0.79	-5.33	5	5	-0.040	+0.013
6	21.0	PC	+0.70	-0.02	-6.29	6	6	+0.006	+0.046	20	05.7	CH	+0.88	+0.50	-7.56	5	3	+0.025	+0.074
7	03.3	CL	+0.03	+0.03	-4.77	6	6	-0.016	+0.025	21	17.1	CH	+0.33	+0.10	-8.55	5	5	+0.009	+0.057
7	23.4	CH	+0.32	+0.56	-7.21	6	6	+0.043	+0.084	22	21.5	CL	-0.12	+0.28	-6.30	6	6	-0.015	+0.032
9	04.2	CH	+0.22	+0.69	-6.10	6	6	+0.016	+0.058	25	20.6	CL	+0.78	+0.52	-5.00	5	5	-0.007	+0.039
10	21.2	CH	+1.71	+0.88	-7.65	6	6	+0.014	+0.057	26	05.4	CH	+0.79	+0.66	-3.78	6	6	-0.013	+0.032
11	03.2	PC	+0.80	+0.80	-7.14	6	6	+0.006	+0.051	26	06.6	CH	+0.68	+1.14	-5.61	6	6	+0.010	+0.055
11	21.0	CL	+1.27	+0.12	-6.07	6	6	+0.016	+0.061	27	16.8	CH	+2.27	+1.63	-9.74	6	5	+0.022	+0.067
12	21.7	PC	+1.36	+1.03	-8.66	3	4	+0.013	+0.058	28	05.3	CH	+0.77	+0.83	-6.90	6	6	-0.003	+0.041
13	19.9	CH	+1.30	+0.58	-7.22	6	6	-0.004	+0.042	28	06.3	CH	+0.83	+0.94	-6.70	6	6	-0.021	+0.023
14	03.4	CH	+0.14	+0.41	-7.30	6	5	+0.026	+0.072	28	21.2	CL	+0.59	+0.79	-4.96	6	6	-0.022	+0.022
14	04.1	CH	+0.40	+0.43	-5.67	6	6	-0.034	+0.012	29	20.7	CH	+0.32	+0.32	-7.90	6	6	-0.006	+0.038
14	19.8	CH	+1.61	+0.05	-6.75	5	5	+0.010	+0.058	30	05.4	CL	+0.22	0.00	-5.87	6	6	-0.021	+0.022
16	20.9	CH	+0.69	+0.31	-6.05	6	6	-0.028	+0.021										
17	03.8	CH	0.00 +0.30	+0.29	-5.96	6	6	+0.017	+0.066	Nov. 3	21.8	CL	+1.10	+1.21	-6.38	6	6	-0.019	+0.022
17	04.7	CH	+0.29	-0.60	-4.80	6	5	-0.002	+0.047	4	06.2	CH	+0.97	+1.22	-5.69	5	4	-0.038	+0.002
18	04.7	CH	+0.44	+0.74	-5.54	6	6	-0.036	+0.014	5	19.7	CH	+1.52	+1.52	-7.80	5	3	+0.023	+0.063
20	19.7	CH	+2.17	+1.65	-8.10	6	6	+0.006	+0.057	9	05.8	PC	+1.43	+1.01	-6.58	6	6	+0.007	+0.045
21	03.9	CH	+0.96	+0.96	-6.48	6	6	-0.044	+0.008	9	20.6	CL	+1.81	+1.68	-6.02	6	6	-0.007	+0.031
21	04.8	CH	+0.96	+0.96	-5.85	4	6	-0.039	+0.013	10	19.3	PC	+2.88	+2.88	-8.26	6	6	+0.002	+0.039
22	21.0	CH	+1.34	+0.95	-8.05	6	6	-0.001	+0.051	11	21.8	CH	+2.92	+3.28	-9.84	6	6	+0.017	+0.054
25	19.3	CH	+1.77	+1.04	-9.06	6	6	-0.006	+0.048	14	06.3	CH	+2.18	+2.42	-8.60	6	6	+0.007	+0.041
26	20.6	CH	+1.86	+1.86	-8.78	6	6	+0.017	+0.072	14	07.2	CH	+2.38	+2.59	-7.90	6	6	+0.003	+0.037
27	04.6	CH	+0.74	+0.44	-6.50	6	6	+0.001	+0.057	14	17.3	CL	+2.32	+1.80	-8.67	6	6	+0.032	+0.066
27	19.0	CH	+2.02	+0.89	-8.12	6	6	+0.019	+0.075										

TABLE I. - SUMMARY OF OBSERVATIONS MADE AT GREENWICH WITH THE REVERSIBLE SMALL TRANSIT C
FOR THE DETERMINATION OF CLOCK CORRECTIONS

Date	U.T.	Observer	Level		Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual	Date	U.T.	Observer	Level		Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual
			From	To		South	North						From	To		South	North		
1954	h		"	"	"			s	s	1954	h		"	"	"			s	s
Nov. 15	06.1	PC	+2.05	+2.45	- 6.29	6	6	+ .019	+ .053	Dec. 9	20.8	CL	+1.85	+1.65	-11.49	6	6	- .037	- .015
15	20.8	CL	+2.64	+3.09	- 4.32	6	6	+ .037	+ .071	10	06.0	CH	+1.83	+1.95	-11.15	6	6	+ .011	+ .033
17	06.2	CL	+0.20	-0.01	- 8.45	5	5	- .015	+ .018	10	07.1	CH	+1.96	+2.10	-12.00	6	6	+ .021	+ .043
17	17.8	CH	+1.07	+1.23	-10.20	6	6	+ .040	+ .073	11	06.3	CL	+1.44	+0.97	-10.00	6	6	+ .035	+ .056
20	18.6	PC	+1.20	+0.51	- 9.11	6	6	- .001	+ .031	11	21.5	CH	+2.27	+2.59	-10.35	6	6	- .020	+ .001
24	06.5	PC	+0.73	+0.35	- 8.30	5	5	- .014	+ .016	13	06.5	CH	+1.87	+3.01	-11.38	3	4	- .018	+ .003
24	20.6	CL	+1.03	+1.67	- 7.38	4	3	- .006	+ .024	15	06.5	PC	+1.42	+1.13	-12.40	6	5	+ .032	+ .052
25	07.0	CH	+1.42	+1.60	-10.32	6	5	- .004	+ .025	15	20.8	CL	+0.91	+0.91	- 9.54	6	6	- .023	- .003
29	06.3	CL	+0.74	+0.52	- 7.00	6	6	- .032	- .005	17	18.1	CH	+0.87	+0.95	-11.70	6	6	- .011	+ .008
30	20.9	CL	+0.67	+0.78	- 3.51	6	6	- .020	+ .007	17	19.3	CH	+0.93	+1.00	-13.30	6	6	+ .037	+ .046
Dec. 1	06.0	CH	+0.42	+0.63	- 2.95	6	6	- .002	+ .024	18	06.2	PC	+0.48	+0.57	-11.13	6	6	+ .011	+ .029
1	06.9	CH	+0.63	+0.91	- 3.70	6	6	- .002	+ .024	18	07.6	PC	+0.58	+0.62	-10.66	6	6	+ .032	+ .050
1	17.3	CH	+1.38	+1.02	- 3.70	6	6	- .022	+ .004	18	18.0	CL	+1.77	+1.77	-11.20	6	6	- .030	- .012
3	17.7	CL	-0.12	-0.51	-25.05	6	6	+ .007	+ .032	20	23.1	CH	+1.59	+1.59	-22.46	6	6	- .007	+ .011
4	19.4	PC	-0.18	-0.14	-24.53	6	6	- .012	+ .013	21	06.4	PC	+1.01	+0.96 +0.97	-21.97	6	6	+ .024	+ .042
5	05.8	CH	+0.10	+0.10	-25.15	5	6	- .018	+ .007	23	20.6	CH	+0.55	+0.55	-20.90	6	6	+ .006	+ .023
5	06.7	CH	+0.10	+0.10	-25.10	5	5	+ .005	+ .030	24	06.2	CH	+1.22	+1.10	-21.90	6	6	+ .020	+ .037
8	21.8	CH	+1.71	+2.43	-12.80	6	6	- .028	- .005	24	07.3	CH	+1.12	+1.00	-20.82	6	6	+ .009	+ .026
										31	23.5	PC	+0.35	-0.18	-21.35	6	6	- .009	+ .005

TABLE I. - SUMMARY OF OBSERVATIONS MADE AT ABINGER WITH THE BAMBERG BROKEN TRANSIT
FOR THE DETERMINATION OF CLOCK CORRECTIONS

Date	U.T.	Observer	Level	Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual	Date	U.T.	Observer	Level	Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual
					South	North								South	North		
1954	h		"	"			s	s	1954	h		"	"			s	s
Jan. 1	19.0	AC	-0.62	-26.35	10	4	+0.026	+0.022	Apr. 28	22.0	JR	+0.12	-17.25	8	4	+0.060	+0.014
4	17.0	JR	-0.97	-27.30	6	4	+0.021	+0.015	28	22.0	DS	+0.12	-18.75	8	4	+0.089	+0.043
4	17.0	AC	-0.97	-27.65	5	4	+0.066	+0.060	29	21.0	RT	-0.09	-16.45	8	4	+0.019	-0.027
5	17.0	JR	+0.93	-26.60	9	4	+0.012	+0.006	29	23.0	NH	+0.28	-17.25	7	4	+0.045	-0.001
13	17.0	RT	+0.73	-25.05	7	4	-0.007	-0.016	30	21.0	AC	+0.67	-39.00	8	5	+0.066	-0.021
13	17.0	DS	+0.73	-25.90	7	4	-0.017	-0.026									
15	22.0	AC	+1.31	-24.85	8	4	+0.009	.000									
16	18.0	RT	+1.52	-23.50	8	4	-0.010	-0.021	May 6	21.0	JR	+0.59	-37.40	8	4	+0.018	-0.025
17	17.0	RT	+0.02	-22.60	8	4	+0.001	-0.010	6	21.0	DS	+0.59	-37.95	8	4	+0.015	-0.028
22	18.0	NH	+0.33	-38.70	9	3	+0.006	-0.006	7	21.0	RT	+0.63	-37.95	8	4	+0.072	+0.029
22	21.0	AC	+0.18	-39.30	8	4	+0.014	+0.002	7	21.0	AC	+0.63	-37.90	8	3	+0.023	-0.020
24	17.0	JR	-0.40	-40.40	8	4	-0.024	-0.038	8	20.0	PW	+1.66	-35.70	8	4	-0.012	-0.055
									10	21.0	AC	+1.49	-31.30	8	4	-0.004	-0.046
Feb. 5	17.0	RT	-1.61	-29.50	7	5	-0.013	-0.030	11	21.0	JR	-0.29	-30.65	8	3	+0.007	-0.035
6	22.0	PW	-0.50	-30.00	9	3	-0.029	-0.046	11	21.0	PW	-0.29	-30.00	8	3	-0.017	-0.059
8	20.0	JR	-0.71	-30.85	7	2	-0.011	-0.028	26	21.0	RT	-0.84	-37.75	7	4	+0.019	-0.015
8	20.0	AC	-0.71	-31.10	7	2	.000	+0.017	26	21.0	DS	-0.84	-38.65	7	4	+0.017	-0.017
20	19.0	RT	+0.97	-30.90	8	3	-0.021	-0.042	29	23.0	NH	+0.52	-39.30	9	3	+0.019	-0.012
23	18.0	JR	+0.33	-30.00	10	3	+0.013	-0.010									
27	20.0	NH	-0.07	-30.70	7	3	-0.015	-0.038									
									June 3	21.0	JR	+0.74	-39.10	8	4	-0.013	-0.040
Mar. 3	21.0	DS	+0.08	-29.20	7	3	-0.106	-0.131	3	21.0	DS	+0.74	-38.80	8	4	-0.023	-0.050
3	22.0	RT	+0.08	-29.70	5	3	-0.035	-0.060	4	21.0	JR	+0.51	-38.55	8	4	+0.022	-0.004
3	23.0	JR	+0.08	-30.85	8	4	-0.002	-0.027	14	22.0	JR	+0.74	-38.65	7	5	-0.020	-0.035
3	23.0	NH	+0.08	-31.20	8	4	+0.037	+0.012	14	22.0	NH	+0.74	-37.90	7	5	+0.024	+0.009
5	19.0	RT	-0.58	-20.25	7	5	+0.019	-0.007	20	21.0	NH	+1.61	-38.45	9	3	+0.004	-0.006
5	19.0	AC	-0.58	-20.35	6	5	-0.017	-0.043	22	22.0	JR	+1.59	-39.50	8	4	+0.013	+0.006
10	20.0	RT	-0.27	-15.25	8	4	+0.004	-0.023	23	22.0	RT	+0.17	-38.00	8	4	+0.014	+0.008
10	21.0	JR	+0.06	-15.10	9	3	-0.028	-0.055	23	22.0	PW	+0.17	-38.10	8	4	-0.023	-0.029
10	21.0	NH	+0.06	-14.70	9	3	+0.006	-0.021	24	22.0	NH	+1.09	-38.15	9	3	-0.031	-0.036
11	20.0	NH	+0.72	-12.55	8	3	-0.029	-0.056	24	22.0	DS	+1.09	-37.70	9	3	-0.080	-0.085
12	19.0	RT	+0.76	-15.85	8	4	+0.024	-0.003	26	22.0	RT	+0.67	-39.00	8	4	+0.029	+0.026
12	19.0	AC	+0.76	-18.10	8	4	+0.044	+0.017	30	22.0	DS	+0.98	-37.70	8	4	+0.004	+0.001
26	21.0	AC	+1.20	-15.80	8	3	+0.059	+0.029	30	22.0	RT	+0.90	-38.60	8	4	+0.021	+0.018
26	21.0	NH	+1.20	-15.85	9	3	+0.082	+0.052									
26	22.0	RT	+1.12	-16.50	8	4	+0.064	+0.034	July 2	22.0	RT	+0.71	-39.05	9	3	+0.001	-0.001
30	19.0	JR	+1.61	-15.00	9	3	+0.004	-0.026	2	22.0	PW	+0.71	-38.70	8	3	-0.028	-0.030
									7	21.0	RT	+0.70	-40.00	6	4	+0.044	+0.049
Apr. 1	19.0	NH	+0.29	-14.20	9	3	+0.048	+0.001	7	21.0	PW	+0.70	-38.45	5	5	-0.007	-0.002
1	19.0	DS	+0.29	-14.60	8	3	-0.058	-0.105	12	22.0	JR	+0.74	-40.00	8	4	-0.003	+0.008
6	22.0	JR	+0.28	-17.25	8	3	+0.046	-0.001	12	22.0	AC	+0.74	-40.45	8	4	+0.023	+0.034
7	21.0	JR	+0.18	-16.15	7	4	+0.028	-0.019	14	22.0	PW	+1.09	-37.90	7	3	-0.005	+0.008
7	21.0	DS	+0.18	-16.90	7	4	+0.013	-0.034	14	22.0	DS	+1.09	-37.95	7	3	+0.020	+0.033
8	20.0	NH	+0.31	-15.70	10	2	+0.050	+0.003	14	23.0	NH	+1.44	-35.45	9	2	-0.027	-0.014
8	20.0	DS	+0.31	-15.65	9	2	-0.021	-0.068	19	23.0	JR	+1.55	-34.85	6	3	-0.075	-0.055
10	19.0	JR	+0.79	-15.75	9	3	-0.013	-0.061	19	23.0	AC	+1.55	-35.25	7	3	-0.058	-0.038
13	20.0	JR	+0.82	-16.60	9	3	+0.002	-0.046	21	22.0	RT	-0.88	-36.60	9	3	-0.009	+0.013
13	20.0	NH	+0.82	-16.05	9	3	+0.017	-0.031	21	22.0	NH	-0.88	-36.15	9	3	-0.005	+0.017
16	20.0	RT	+1.07	-17.90	7	5	+0.044	-0.004	22	21.0	NH	-0.08	-35.90	9	3	-0.021	+0.003
21	20.0	JR	+0.67	-17.40	9	3	+0.069	+0.022	22	21.0	DS	-0.08	-36.45	9	3	-0.027	-0.003
21	20.0	DS	+0.67	-17.50	9	3	+0.081	+0.034	27	22.0	JR	+0.16	-36.40	7	5	-0.022	+0.008
22	20.0	NH	+0.93	-17.40	9	3	+0.081	+0.034									
22	20.0	DS	+0.93	-17.50	9	3	+0.030	-0.017	Aug. 13	20.0	DS	+0.11	-22.25	7	4	+0.028	+0.074
26	20.0	AC	+1.29	-17.70	7	5	+0.074	+0.028	13	21.0	RT	+0.11	-21.55	7	4	-0.003	+0.043
27	22.0	JR	+0.03	-17.50	9	3	+0.060	+0.014	14	22.0	JR	-0.03	-22.05	8	4	.000	+0.047
									16	20.0	JR	+0.31	-21.35	7	5	+0.015	+0.064

TABLE I. - SUMMARY OF OBSERVATIONS MADE AT ABINGER WITH THE BAMBERG BROKEN TRANSIT
FOR THE DETERMINATION OF CLOCK CORRECTIONS

Date	U.T.	Observer	Level	Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual	Date	U.T.	Observer	Level	Azimuth	No. of Stars		G.M.T. Residual	P.U.T. Residual
					South	North								South	North		
1954	h		"	"			s	s	1954	h		"	"			s	s
Aug. 22	21.0	RT	-0.05	-22.80	7	4	+ .001	+ .054	Oct. 11	23.0	AC	-0.64	-23.20	7	4	- .071	- .018
25	21.0	RT	+0.09	-23.40	8	4	+ .024	+ .078	22	19.0	RT	-0.05	-23.10	8	3	+ .005	+ .052
26	20.0	DS	+0.10	-23.75	8	3	+ .047	+ .102	22	19.0	PW	-0.05	-23.15	9	4	- .013	+ .034
26	20.0	NH	+0.10	-24.00	6	3	+ .096	+ .141	22	21.0	NH	+0.08	-22.80	9	3	+ .009	+ .056
27	20.0	RT	+0.02	-22.90	9	3	.000	+ .056	25	20.0	AC	-0.18	-24.50	6	4	+ .029	+ .074
27	20.0	NH	+0.02	-23.00	9	3	+ .032	+ .088	30	19.0	DS	-0.07	-24.15	9	3	- .027	+ .016
28	23.0	AC	-0.02	-23.60	7	3	- .011	+ .046									
31	20.0	DS	-0.01	-22.70	7	3	- .025	+ .032									
Sept. 1	20.0	RT	+0.22	-23.25	8	4	- .005	+ .053	Nov. 5	17.0	NH	-0.37	-25.25	9	3	+ .024	+ .064
3	21.0	AC	+0.53	-23.20	9	3	- .029	+ .029	5	17.0	PW	-0.37	-24.20	9	3	- .018	+ .022
3	21.0	DS	+0.53	-22.60	9	3	- .019	+ .039	9	18.0	JR	-0.78	-24.60	8	4	- .038	.000
4	20.0	NH	+1.04	-23.55	7	3	+ .083	+ .141	9	18.0	PW	-0.78	-25.50	8	4	- .003	+ .035
14	20.0	NH	+0.37	-22.65	8	3	+ .022	+ .081	10	20.0	DS	-0.91	-25.85	8	3	- .002	+ .035
14	20.0	DS	+0.37	-23.90	8	3	+ .029	+ .088	10	23.0	JR	-1.00	-25.50	5	5	- .057	- .020
16	19.0	JR	-0.31	-22.55	7	3	- .053	+ .007	12	17.0	NH	+0.25	-25.35	9	3	+ .020	+ .056
16	19.0	RT	-0.31	-22.50	7	4	- .034	+ .026	12	17.0	PW	+0.25	-24.95	9	3	- .004	+ .032
17	21.0	NH	+0.16	-23.75	7	3	+ .038	+ .097	15	19.0	AC	-0.25	-24.75	6	4	+ .016	+ .050
17	21.0	PW	+0.16	-23.10	7	3	- .012	+ .047	17	17.0	JR	-0.47	-25.15	9	3	+ .078	+ .111
20	20.0	AC	+0.28	-24.10	9	4	+ .003	+ .061	17	17.0	RT	-0.47	-24.00	9	3	+ .053	+ .086
21	19.0	PW	+0.24	-23.70	8	4	- .039	+ .020	20	19.0	NH	-0.57	-23.40	9	3	+ .002	+ .033
21	22.0	JR	+0.01	-23.65	7	5	- .001	+ .058	25	23.0	JR	-0.89	-23.35	8	4	- .038	- .010
22	19.0	PW	+0.11	-23.30	9	3	- .024	+ .035									
22	19.0	DS	+0.11	-26.75	8	3	+ .015	+ .074	Dec. 1	17.0	JR	-0.89	-25.20	9	3	+ .061	+ .087
27	21.0	AC	-0.19	-24.00	5	5	.000	+ .058	1	17.0	DS	-0.89	-25.05	9	3	+ .060	+ .086
28	20.0	PW	-0.16	-22.65	9	3	- .046	+ .011	1	19.0	RT	-0.75	-23.70	9	3	+ .038	+ .064
28	22.0	JR	-0.65	-22.60	7	5	- .030	+ .027	3	17.0	NH	-1.00	-25.80	8	4	+ .067	+ .092
29	19.0	NH	-0.09	-24.11	9	2	- .020	+ .037	3	17.0	PW	-1.00	-24.60	8	4	+ .034	+ .059
29	19.0	PW	-0.09	-23.80	9	2	- .047	+ .010	4	18.0	DS	-0.36	-25.95	9	3	+ .039	+ .064
Oct. 2	19.0	AC	-0.86	-24.50	9	2	+ .012	+ .070	6	17.0	AC	-0.62	-24.75	5	3	+ .039	+ .063
6	19.0	JR	-0.87	-23.20	9	3	- .019	+ .036	7	17.0	AC	-0.33	-26.25	5	5	- .012	+ .011
6	19.0	RT	-0.87	-22.65	9	3	- .008	+ .047	11	17.0	JR	-1.46	-24.25	7	5	+ .009	+ .030
7	19.0	JR	-0.95	-21.90	9	3	- .037	+ .017	15	17.0	JR	-1.62	-24.70	8	4	+ .002	+ .022
7	19.0	RT	-0.95	-22.40	9	3	- .025	+ .029	15	17.0	RT	-1.62	-24.10	8	4	+ .030	+ .050
7	21.0	NH	-1.16	-23.20	9	3	+ .040	+ .094	15	18.0	DS	-1.39	-23.60	8	4	- .025	- .005
9	20.0	NH	-0.96	-22.40	7	1	- .005	+ .049	17	17.0	RT	-1.47	-24.00	8	3	+ .016	+ .035
									17	17.0	PW	-1.47	-23.25	8	3	- .038	- .019
									21	21.0	AC	-0.96	-24.05	7	5	- .011	+ .007
									23	22.0	JR	-0.93	-22.65	8	4	- .046	- .029

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GBR 16 kc/s 1000

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	012	003	996	980	970	983	018	029	998	990	972	999
2	011	001	996	979	970	984	018	028	998	989	972	999
3	011	001	996	978	-	985	018	028	997	988	972	000
4	011	002	996	978	970	986	019	028	997	987	973	000
5	011	003	996	976	970	987	020	027	997	987	974	001
6	011	001	-	975	970	988	020	027	997	986	975	001
7	010	001	996	974	970	989	020	026	-	985	976	002
8	010	001	996	-	970	990	021	025	997	984	977	002
9	010	001	996	973	970	991	021	025	997	983	978	002
10	010	001	996	973	970	991	022	024	996	982	979	002
11	009	000	996	973	970	992	023	023	997	981	980	002
12	008	000	995	972	970	992	024	022	996	980	982	002
13	008	999	996	972	971	993	025	021	996	979	983	002
14	007	998	996	972	971	994	025	020	997	978	984	002
15	007	998	995	972	971	994	026	020	997	977	985	001
16	006	997	994	972	971	995	026	019	996	977	986	000
17	006	996	995	972	971	997	026	017	996	976	987	000
18	005	996	993	971	971	997	027	016	996	976	988	999
19	004	995	992	972	972	999	028	014	996	976	989	999
20	004	995	991	971	972	001	029	013	(996)	975	990	998
21	004	995	990	971	973	003	029	011	995	975	992	997
22	004	995	989	971	973	005	029	009	996	974	993	997
23	003	995	988	971	974	006	029	008	996	974	994	996
24	003	995	987	971	975	008	029	006	995	974	995	996
25	003	995	986	971	975	010	029	005	993	973	996	996
26	003	996	985	971	976	011	028	003	993	973	996	996
27	002	995	984	971	977	013	030	002	992	972	996	995
28	003	996	983	970	978	014	030	002	992	972	997	995
29	002		981	971	979	016	030	001	991	972	998	994
30	001		981	970	980	017	029	000	990	972	998	994
31	002		980		982		029	999		972		993

Figures in brackets refer to GBZ 19.6 kc/s

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GBR 16 kc/s 1006

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	011	002	995	980	971	983	018	029	998	990	972	998
2	010	001	996	979	970	984	018	028	997	988	972	999
3	011	001	997	978	-	985	018	028	997	988	972	000
4	011	001	996	978	971	986	020	028	997	988	973	000
5	011	006	996	976	970	987	020	027	996	986	974	000
6	010	001	-	976	970	988	020	027	997	986	975	001
7	010	000	996	975	971	989	020	026	-	985	976	002
8	010	001	996	-	971	990	021	025	997	984	977	002
9	010	001	996	973	970	991	021	024	996	983	978	002
10	009	001	996	973	970	992	022	024	996	982	979	002
11	008	000	996	973	970	992	023	023	997	981	980	002
12	008	000	995	972	970	993	024	022	996	980	982	002
13	007	999	996	972	971	993	025	-	996	979	983	001
14	007	998	996	972	971	994	025	020	996	978	984	001
15	007	998	996	972	971	994	026	020	996	977	985	001
16	006	997	994	972	971	995	026	019	996	976	986	000
17	006	996	995	972	971	996	026	017	996	976	987	999
18	005	995	992	972	971	997	028	016	996	976	988	999
19	004	995	992	972	972	999	028	014	997	975	989	999
20	003	995	991	971	972	001	029	012	(996)	974	990	997
21	004	994	990	971	973	003	029	011	995	975	991	997
22	003	995	988	971	974	005	029	009	995	974	992	997
23	004	994	988	971	974	007	029	008	994	974	994	996
24	003	995	986	971	975	008	029	006	994	973	995	996
25	003	995	986	971	975	010	029	005	993	973	995	996
26	003	996	985	971	976	011	026	003	993	972	996	995
27	002	996	984	971	976	013	030	002	992	972	996	995
28	001	996	983	970	978	014	029	001	991	972	997	995
29	001		981	971	979	016	030	001	991	971	998	994
30	001		981	970	981	-	029	000	990	971	998	994
31	002		980		982		029	999		972		993

Figures in brackets refer to GBZ 19.6 kc/s

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GBR 16 kc/s 1800

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	011	002	996	980	970	983	018	029	998	989	972	999
2	012	002	-	979	970	984	019	028	998	989	972	999
3	011	003	996	978	970	985	019	028	997	988	972	000
4	011	001	996	977	970	986	019	027	997	987	973	002
5	011	001	-	976	970	987	019	027	997	986	974	001
6	011	002	996	975	969	988	020	027	997	986	976	002
7	010	001	996	-	970	989	021	028	997	985	976	003
8	010	001	996	973	970	990	021	025	996	984	977	002
9	010	001	996	973	970	991	021	024	996	983	979	002
10	009	001	996	973	970	992	022	024	996	982	980	002
11	008	000	996	972	971	992	023	023	996	980	980	002
12	008	000	996	972	970	993	024	022	996	980	982	002
13	008	999	995	972	971	993	025	021	997	979	983	002
14	007	998	996	972	971	994	025	021	997	978	985	001
15	007	997	995	972	971	995	026	020	997	977	986	001
16	006	997	994	972	971	996	026	018	995	977	987	000
17	006	997	993	972	971	997	028	017	996	976	988	000
18	005	995	993	971	971	998	028	015	997	976	989	999
19	004	995	991	972	972	001	028	014	(996)	976	990	998
20	004	995	990	971	972	002	029	012	996	975	991	998
21	004	996	989	971	973	004	029	010	996	974	992	997
22	004	995	988	971	974	006	029	009	995	974	993	997
23	003	996	988	971	974	007	029	007	995	974	994	997
24	003	995	986	971	975	009	029	005	994	974	995	996
25	003	996	986	971	976	010	029	004	993	973	996	996
26	003	994	984	971	976	012	029	003	992	972	996	995
27	002	996	984	971	977	013	029	002	992	972	997	995
28	002	996	983	970	978	015	030	001	991	972	998	995
29	002		982	971	980	017	030	000	991	972	998	994
30	002		981	971	981	018	030	000	990	972	998	994
31	002		980		982		029	999		972		-

Figures in brackets refer to GBZ 19.6 kc/s

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GBR 16 kc/s 1808

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	010	001	996	980	-	983	018	029	998	989	972	999
2	011	002	-	979	970	984	019	028	997	988	972	999
3	010	003	996	978	970	985	019	028	997	988	972	000
4	010	001	997	977	970	986	019	027	997	987	973	002
5	011	002	-	976	970	987	019	027	997	986	974	001
6	010	002	996	975	969	988	020	026	997	985	975	001
7	010	001	996	-	970	989	021	029	997	984	976	003
8	010	001	997	973	970	990	021	025	996	983	977	001
9	009	001	996	973	970	991	021	024	996	982	978	002
10	009	001	996	973	970	992	023	024	996	982	980	002
11	008	000	996	972	971	992	023	023	996	980	980	002
12	008	000	996	972	970	992	025	022	996	980	982	002
13	007	999	995	972	970	993	025	021	996	979	983	001
14	007	998	995	972	971	994	025	021	997	978	984	000
15	007	997	995	972	971	995	026	020	996	977	985	000
16	006	997	994	972	971	996	026	018	994	976	987	000
17	006	996	993	972	971	997	028	016	996	976	988	999
18	005	995	992	971	971	998	028	015	997	976	989	998
19	004	995	991	972	972	001	028	015	(996)	975	990	998
20	004	996	990	971	972	002	029	012	996	974	991	997
21	004	996	989	971	973	004	029	010	996	975	992	997
22	004	995	988	971	974	006	029	009	995	974	993	996
23	004	995	987	971	974	007	029	007	995	974	994	996
24	003	995	986	971	975	009	029	005	994	974	995	996
25	003	996	985	971	976	010	029	004	993	973	996	996
26	002	994	984	971	976	012	029	003	992	972	996	995
27	002	996	984	970	977	013	029	002	992	972	997	995
28	002	996	983	970	978	015	030	001	991	971	997	995
29	002		982	971	980	017	030	000	991	971	998	994
30	002		981	971	981	018	030	000	990	972	998	994
31	002		980		982		029	999		972		-

Figures in brackets refer to GBZ 19.6 kc/s

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	RUGBY GIC37 17 685 kc/s 1000						RUGBY GIC37 17 685 kc/s 1008					
	January	February	March	April	November	December	January	February	March	April	November	December
1	007	996	989	973	965	993	008	996	988	973	964	992
2	006	995	989	971	964	993	005	994	990	971	964	993
3	005	995	990	971	964	993	006	995	990	971	964	993
4	007	994	989	970	964	012	007	994	991	970	964	012
5	006	003	991	969	967	993	007	002	991	970	966	994
6	007	995	-	968	968	996	007	995	-	969	968	995
7	007	994	990	966	968	994	006	993	991	966	968	994
8	010	992	990	-	968	995	006	993	990	-	968	995
9	006	993	989	967	970	996	007	993	989	967	971	995
10	004	994	989	966	971	994	003	994	989	966	972	995
11	004	993	989	966	974	996	004	993	990	966	973	995
12	004	991	987	964	974	995	004	991	989	965	975	995
13	003	992	990	965	976	-	003	990	991	965	976	-
14	001	989	-	965	977	995	001	990	-	965	977	995
15	000	992	991	965	977	995	000	991	990	965	976	995
16	000	988	989	965	977	994	000	989	989	965	977	994
17	999	988	987	964	979	995	000	988	986	964	979	994
18	998	986	988	963	981	993	999	986	987	964	981	992
19	999	992	985	964	982	993	999	990	985	964	982	994
20	999	987	984	962	983	992	998	987	984	963	982	992
21	001	987	984	963	985	992	001	987	983	964	985	992
22	999	986	982	963	986	992	998	986	982	963	987	991
23	997	986	981	966	986	991	997	987	980	966	986	991
24	996	985	979	964	987	990	995	985	979	964	988	990
25	995	-	979	-	989	989	996	-	980	-	989	989
26	000	986	-	963	989	990	000	986	-	963	989	991
27	999	986	976	964	989	990	997	986	977	964	990	990
28	997	987	975	962	989	991	998	987	975	962	989	990
29	995		973	963	991	988	995		973	964	990	989
30	996		974	963	991	987	996		974	962	992	988
31	997		972			987	995		972			987

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	RUGBY GIC29 9 350 kc/s 1000				RUGBY GIC29 9 350 kc/s 1006			
	September	October	November	December	September	October	November	December
1	995	982	965	993	992	983	966	993
2	990	981	964	991	992	982	965	993
3	990	980	965	993	991	981	965	994
4	987	980	965	019	988	981	965	017
5	992	979	966	997	992	979	966	997
6	989	978	968	994	989	978	968	996
7	-	977	969	994	-	978	969	994
8	988	976	969	997	988	976	968	998
9	990	976	971	996	990	976	969	997
10	989	980	970	997	989	977	970	997
11	989	972	977	997	988	973	977	997
12	988	972	975	997	988	972	975	996
13	989	975	975	997	988	972	975	996
14	989	970	976	998	990	970	977	997
15	989	970	978	996	992	970	976	996
16	990	967	977	993	991	968	977	995
17	989	968	979	996	989	968	978	995
18	988	967	981	994	988	967	980	995
19	987	968	981	994	988	968	981	994
20	966	966	982	997	966	966	982	997
21	989	969	983	993	989	970	983	992
22	988	966	991	992	988	966	990	992
23	986	965	988	991	986	965	987	991
24	988	981	988	991	988	981	991	992
25	985	964	-	990	985	969	990	990
26	986	964	990	989	987	964	991	989
27	984	964	990	990	986	965	990	991
28	985	964	988	989	985	964	987	990
29	982	965	990	989	982	965	990	989
30	980	965	991	988	981	965	992	990
31		969		987		964		988

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	RUGBY GIC30 10 805 kc/s		RUGBY GIC32 12 455 kc/s					
	1000	1008	1000			1008		
	January	January	February	March	April	February	March	April
1	027	026	002	988	974	002	988	974
2	027	027	995	-	972	995	-	972
3	020	021	994	992	-	994	991	976
4	-	021	997	990	-	997	990	-
5	021	019	007	992	-	007	991	971
6	016	017	995	-	970	995	-	970
7	020	020	995	992	967	995	993	967
8	013	016	994	991	-	994	991	-
9	011	012	994	990	967	993	990	967
10	015	013	994	999	969	994	998	-
11	011	012	993	989	967	993	989	967
12	006	004	992	988	964	992	988	-
13	010	010	993	991	976	993	991	-
14	010	012	-	989	965	991	990	965
15	006	007	992	991	976	992	991	975
16	009	009	991	989	-	991	989	-
17	001	001	990	988	966	990	-	-
18	000	001	989	988	965	989	988	965
19	000	000	992	987	966	993	987	966
20	005	000	990	985	964	989	985	964
21	998	999	991	986	965	989	-	966
22	997	997	988	-	-	988	983	-
23	998	997	988	982	964	989	981	965
24	998	997	987	980	967	987	980	967
25	000	000	986	979	-	986	980	-
26	996	996	988	978	965	988	978	965
27	996	996	987	977	966	987	977	966
28	998	997	988	977	963	988	977	964
29	996	999		975	964		975	964
30	-	-		976	963		976	963
31	999	002		974			974	

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	LEAFIELD GIC33 13 555 kc/s 1000						LEAFIELD GIC33 13 555 kc/s 1006					
	May	June	July	August	September	October	May	June	July	August	September	October
1	984	994	025	040	014	006	983	993	025	040	014	007
2	982	995	027	042	015	007	984	995	026	041	014	009
3	983	995	026	-	011	009	983	995	026	-	010	011
4	984	997	027	041	012	008	985	997	027	043	013	008
5	984	998	028	043	013	005	984	998	028	044	013	006
6	985	999	028	038	013	003	984	999	028	041	015	004
7	983	003	035	042	-	000	983	001	035	040	-	003
8	983	998	030	036	013	004	983	999	030	035	010	004
9	989	001	030	036	013	003	987	000	029	037	013	005
10	982	001	027	038	010	994	982	000	028	039	010	995
11	983	999	027	040	009	995	984	002	025	042	008	997
12	982	999	026	035	011	997	982	999	027	036	008	997
13	982	003	035	033	013	990	982	-	034	032	011	993
14	979	005	033	033	012	990	983	006	034	033	010	992
15	983	003	034	031	011	993	984	003	034	032	012	995
16	985	000	038	031	011	989	984	001	037	031	013	989
17	983	007	037	027	014	987	983	007	038	028	012	987
18	988	004	036	027	011	989	988	004	036	026	012	989
19	986	006	038	026	007	988	987	006	038	026	007	988
20	984	008	041	024	983	992	986	008	042	023	987	992
21	985	012	044	029	009	994	984	015	043	024	010	994
22	986	012	040	022	010	991	986	012	040	022	010	991
23	986	015	041	021	011	992	986	015	041	023	012	991
24	991	016	041	022	011	994	991	016	041	018	011	992
25	988	018	042	017	009	992	988	019	041	018	010	990
26	987	019	032	017	011	991	987	019	033	017	004	993
27	991	020	036	020	009	990	988	020	034	018	008	989
28	992	025	035	015	004	985	989	022	034	015	006	987
29	991	026	043	-	005	987	990	025	041	-	006	989
30	-	023	043	013	000	985	993	-	042	013	001	986
31	993		045	012		982	993		043	013		982

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	RUGBY GPB30 10 332.5 kc/s 1000				RUGBY GPB30 10 332.5 kc/s 1006			
	May	June	July	August	May	June	July	August
1	967	974	009	020	-	975	010	020
2	-	977	009	021	-	976	009	023
3	967	976	008	024	963	976	008	023
4	964	977	010	024	964	977	010	020
5	963	978	011	018	963	979	010	019
6	963	979	011	019	963	980	011	019
7	962	981	011	019	962	981	011	019
8	961	985	011	016	961	982	012	017
9	962	982	-	018	961	983	-	018
10	962	983	008	021	963	982	008	018
11	963	983	013	017	963	983	012	016
12	962	982	012	014	963	983	012	014
13	962	984	014	012	962	985	014	013
14	962	-	013	013	963	-	013	012
15	962	987	014	012	963	986	014	013
16	962	984	017	009	963	986	017	009
17	963	989	016	009	963	990	016	009
18	963	988	018	006	963	982	018	006
19	-	989	019	006	-	989	019	007
20	965	991	020	003	965	993	021	003
21	965	994	022	003	965	994	022	003
22	967	996	021	000	966	996	021	000
23	966	996	028	999	966	997	029	000
24	968	999	022	999	967	999	022	999
25	973	003	020	997	968	001	020	997
26	-	000	017	997	968	001	014	998
27	969	002	021	995	968	002	020	996
28	969	004	023	991	969	008	023	993
29	971	007	027	994	971	007	022	993
30	-	-	028	991	973	-	027	992
31	974		028	991	976		027	991

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GIC32 12 455 kc/s 1800

Day of Month	January	February	March	April	May	June	July	August
1	006	999	002	986	963	978	014	019
2	006	-	-	973	-	-	010	020
3	008	996	-	-	-	979	011	019
4	005	-	-	986	-	-	009	020
5	-	995	-	-	963	-	011	014
6	006	997	988	-	963	-	011	019
7	-	997	-	-	-	980	012	017
8	006	-	-	964	963	981	012	018
9	005	995	-	-	966	-	013	019
10	005	-	992	979	962	987	010	017
11	-	994	991	980	966	-	014	015
12	-	994	991	965	962	989	017	014
13	-	007	-	-	-	-	016	014
14	004	002	992	967	963	-	012	012
15	003	004	-	966	-	-	019	011
16	-	002	-	972	965	-	019	010
17	999	994	987	-	-	988	019	011
18	001	989	-	-	-	989	020	006
19	000	999	984	-	966	-	020	-
20	-	989	985	964	966	992	021	005
21	-	-	982	-	967	-	026	002
22	-	988	981	-	-	997	026	999
23	998	987	981	964	-	015	021	-
24	997	-	978	965	968	002	022	997
25	-	002	981	-	-	001	021	997
26	010	998	982	-	971	003	022	004
27	998	002	977	964	-	004	020	-
28	009	988	-	-	971	006	021	-
29	996	-	-	964	973	009	-	994
30	997	-	-	-	973	014	024	993
31	-	-	974	-	972	-	020	992

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GIC32 12 455 kc/s 1806

Day of Month	January	February	March	April	May	June	July	August
1	007	000	003	985	963	978	023	019
2	008	-	-	973	-	-	010	020
3	007	996	-	-	-	980	012	019
4	005	995	-	-	-	-	009	019
5	-	996	-	971	963	979	-	014
6	006	998	989	-	-	-	011	019
7	-	995	-	-	-	-	012	017
8	005	-	-	965	-	981	012	017
9	005	995	-	967	966	-	013	019
10	004	-	992	978	-	986	010	017
11	003	994	-	980	965	-	013	015
12	-	994	991	965	962	986	017	013
13	003	007	-	-	-	-	016	015
14	004	002	991	967	963	-	011	012
15	003	004	993	-	-	989	020	011
16	-	002	-	967	-	-	018	010
17	999	994	987	-	-	988	018	012
18	001	988	-	-	-	989	020	008
19	001	001	985	974	967	994	022	005
20	999	988	984	964	966	992	022	-
21	001	-	-	-	969	997	026	-
22	-	988	981	-	-	997	027	999
23	998	-	981	964	-	013	021	-
24	997	989	978	-	968	000	021	997
25	-	004	982	-	-	001	021	997
26	011	998	980	-	-	003	022	006
27	998	-	977	964	-	004	023	-
28	997	988	-	-	971	007	021	-
29	996	-	-	964	973	009	023	995
30	998	-	-	-	973	-	022	-
31	-	-	974	-	974	-	020	992

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GPB30 10 332.5 kc/s 1800

Day of Month	May	June	July	August	September	October	November	December
1	-	980	013	019	-	981	964	992
2	-	977	010	-	990	981	962	991
3	963	979	010	019	992	982	963	992
4	972	979	008	019	997	980	966	995
5	966	-	008	020	988	978	965	996
6	964	-	011	022	994	979	967	996
7	961	986	012	016	993	985	968	994
8	962	981	012	018	990	976	970	996
9	961	-	011	017	990	974	970	995
10	963	984	010	022	991	974	-	994
11	966	984	011	017	988	973	972	994
12	963	987	017	015	989	973	973	995
13	-	984	019	014	992	978	978	995
14	963	990	019	015	-	982	980	994
15	962	984	019	011	988	968	976	994
16	961	-	019	010	990	971	978	994
17	964	989	019	011	990	968	989	994
18	972	988	025	008	988	968	980	992
19	967	993	027	005	989	977	982	991
20	-	000	023	007	987	967	-	-
21	969	-	021	005	988	976	982	990
22	-	996	026	000	989	966	985	990
23	-	-	022	003	990	971	986	991
24	972	001	022	999	987	966	987	989
25	971	001	021	996	989	965	990	990
26	968	002	022	998	985	963	986	-
27	-	005	024	993	993	963	989	990
28	971	010	024	993	983	965	990	004
29	972	009	022	993	983	965	992	989
30	976	013	024	991	982	968	991	988
31	-		018	991		965		-

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY GPB30 10 332.5 kc/s 1806

Day of Month	May	June	July	August	September	October	November	December
1	-	979	012	019	-	980	963	992
2	-	979	010	021	990	982	962	991
3	962	981	010	-	-	981	963	992
4	973	981	008	019	993	980	967	996
5	966	-	008	020	990	978	965	997
6	966	-	011	023	993	978	967	996
7	961	984	013	024	993	983	968	994
8	962	981	012	018	990	976	970	996
9	961	987	009	017	993	974	971	995
10	963	984	010	023	990	974	-	994
11	968	984	013	017	988	973	972	994
12	964	986	016	014	989	973	973	997
13	965	986	019	016	990	979	978	995
14	963	-	013	014	991	979	980	995
15	963	984	019	011	988	968	976	994
16	962	-	017	010	996	971	978	994
17	964	989	020	012	987	968	989	994
18	972	988	020	009	988	968	991	992
19	968	993	026	005	987	977	981	991
20	-	000	022	006	988	966	-	-
21	970	-	021	003	988	976	-	991
22	-	996	026	001	988	965	985	991
23	-	998	023	003	990	973	987	991
24	972	001	022	999	987	965	987	989
25	971	001	021	996	990	965	990	989
26	968	004	022	997	985	963	986	-
27	-	005	024	993	993	963	989	990
28	971	009	023	993	983	964	990	004
29	973	009	022	994	984	965	992	989
30	975	007	022	991	983	969	991	988
31	-		019	991		965		-

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	RUGBY GIC26 6 985 kc/s 1800					RUGBY GIC26 6 985 kc/s 1808				
	January	September	October	November	December	January	September	October	November	December
1	-	-	-	964	994	-	-	-	964	-
2	-	-	-	968	991	-	993	-	968	992
3	020	-	980	969	994	021	-	980	969	995
4	-	-	983	965	000	-	-	983	966	001
5	020	-	-	975	996	020	-	-	975	998
6	-	990	987	972	997	-	990	988	972	997
7	-	-	986	-	003	-	-	984	-	002
8	005	-	-	971	997	006	-	-	971	997
9	004	-	-	978	-	004	-	-	978	998
10	004	988	884	975	996	004	989	983	975	996
11	-	992	-	-	996	-	992	-	-	996
12	-	992	981	-	-	-	989	981	-	-
13	-	-	979	-	998	-	-	980	-	997
14	-	-	970	984	-	-	-	971	983	-
15	003	-	972	978	997	003	-	-	978	997
16	-	-	-	-	006	-	-	977	-	-
17	002	-	-	-	-	003	-	-	-	994
18	014	988	-	-	995	013	988	-	983	-
19	014	981	977	984	-	014	-	978	984	-
20	-	994	978	989	992	-	-	979	990	-
21	006	-	978	983	001	005	-	977	984	001
22	999	987	-	986	-	999	-	-	985	-
23	998	989	975	993	-	998	989	973	-	-
24	997	-	975	-	989	996	987	975	988	989
25	-	986	970	991	991	003	986	970	-	991
26	004	993	968	988	989	004	989	968	988	989
27	-	-	973	990	004	-	-	971	990	003
28	-	-	966	991	988	-	-	965	990	990
29	997	983	-	-	-	-	-	-	991	-
30	-	983	971	-	990	-	984	972	-	991
31	-	-	969	-	-	-	-	970	-	-

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	RUGBY GIC27 7 397.5 kc/s 1800			RUGBY GIC27 7 397.5 kc/s 1806		
	February	March	April	February	March	April
1	996	-	-	996	000	979
2	-	-	972	998	-	972
3	-	991	-	-	-	971
4	-	990	971	993	990	971
5	993	-	969	993	-	969
6	995	-	-	995	997	-
7	997	-	-	997	-	-
8	994	-	-	994	-	966
9	993	989	966	993	990	966
10	-	-	972	994	990	966
11	-	990	965	-	989	965
12	-	989	966	993	-	965
13	993	990	-	993	989	-
14	991	989	965	-	989	966
15	988	993	-	989	994	-
16	991	987	965	989	988	965
17	986	991	964	986	992	965
18	991	-	-	993	-	-
19	988	-	-	988	-	-
20	-	-	-	-	982	-
21	-	981	-	-	981	-
22	988	-	-	987	-	-
23	984	-	963	984	-	-
24	-	978	963	993	978	963
25	993	979	963	994	981	963
26	985	-	-	986	-	964
27	995	-	964	997	-	964
28	986	-	964	986	-	963
29		-	-		-	-
30		974	-		974	-
31		-			-	

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY MSF 60 kc/s 1440

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	0286	9637	9932	9232	-	9448	9754	-	9303	9519	9692	9852
2	-	9649	9944	9244	-	9460	9763	-	9311	-	9697	9857
3	-	9660	9952	-	9620	9472	-	0065	9318	-	9702	9862
4	0320	-	9961	-	9632	-	-	0074	-	9535	9708	-
5	0331	9682	9972	9278	9644	-	9792	0082	-	9540	9713	-
6	0342	-	-	9291	9656	-	9802	0090	9342	9546	-	9878
7	0354	-	-	9303	9668	-	9812	-	9351	9553	-	9889
8	-	9716	0001	9315	-	9524	9822	-	9359	9558	9728	9899
9	-	9726	0010	9327	-	9536	9831	0116	9368	-	9733	9908
10	-	9737	0020	-	9702	9546	-	0126	9374	-	9739	9918
11	0400	9749	0030	-	9714	9557	-	0134	-	9576	9746	-
12	0412	9760	0039	9364	9726	-	9865	0142	-	9581	9752	-
13	0422	-	-	9377	9738	-	9874	0150	9396	9586	-	9940
14	0435	-	-	9390	9748	9588	9880	-	9403	9592	-	9948
15	0446	9792	0068	9401	-	9596	9890	-	9410	9598	9768	9958
16	-	9802	0076	-	-	9607	9900	0173	9418	-	9774	9967
17	-	9812	0088	-	9782	9618	-	0180	9424	-	9781	9975
18	0480	9823	0096	-	9794	9628	-	0192	-	9616	9786	-
19	0492	9833	0105	-	9806	-	9926	0202	-	9622	9792	-
20	0504	-	-	9460	9819	-	9936	0208	9447	-	-	0000
21	0516	-	-	9474	9829	9658	9946	-	9454	9632	-	0006
22	0526	9864	0132	9488	-	9669	9954	-	9460	9636	9807	0015
23	-	9873	0142	9500	-	9680	9964	0234	9468	-	9812	0022
24	-	9882	0150	-	9864	9690	-	0242	9474	-	9818	-
25	0558	9892	0161	-	9871	9700	-	0249	-	9654	9825	-
26	0569	9902	0170	9538	9882	-	9992	0258	-	9660	9830	-
27	0580	-	-	9550	9894	-	0002	0265	9495	9666	-	-
28	0591	-	-	9563	9906	9730	0012	-	9501	9671	-	0056
29	-	-	-	9575	-	9739	0020	-	9508	9676	9842	0060
30	-	-	-	9586	-	9751	0029	0288	9514	-	9847	0068
31	-	-	0216	-	9938	-	-	0296	-	-	-	0075

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY MSF 2 500 kc/s 1040

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	0284	-	9930	9233	9598	9448	9751	0048	9302	9520	9692	9853
2	0292	9652	-	9246	9610	9460	9763	0056	9310	9524	9697	9854
3	0309	9660	9950	9266	9620	9470	9772	0064	9318	9530	9701	9865
4	0318	9670	9960	9268	9632	-	9783	0072	9324	9535	9706	9868
5	0330	9680	-	9279	9646	9494	9790	0081	9334	9540	9712	9876
6	-	9692	9980	9291	9656	9504	9800	0090	9342	9547	9716	9882
7	0354	9706	9991	9302	9668	9516	9810	0098	9349	9554	9722	9892
8	0372	9714	9999	9314	9680	9524	9820	-	9358	9557	9728	9900
9	0378	9721	0009	9327	-	9536	9829	0116	9366	9564	9732	9910
10	0390	9736	0018	9340	9702	9546	-	0124	9374	-	9739	9920
11	0399	9747	0028	9352	9714	9555	9853	0134	9381	9575	9746	9928
12	0412	9757	0036	9364	9724	9566	9862	0142	9388	9580	9750	9937
13	0423	9768	0046	9378	9737	9578	9874	0150	9394	9586	9756	9944
14	0434	9780	0055	9390	9748	9587	9878	0158	9402	9592	9761	9952
15	0446	9790	0065	9402	9760	9596	9888	0166	9410	9597	9770	9956
16	0457	9800	0076	9414	9772	9608	-	0172	9418	9603	9774	9972
17	-	9808	0085	9426	9782	9617	9908	0179	9424	9609	9780	9976
18	0482	9820	0094	9438	9794	-	9917	0190	9432	9615	9786	9980
19	-	9830	-	9450	9806	9638	9926	0200	9440	9620	9792	9997
20	-	9842	0114	9460	9818	9646	9934	0208	9446	9626	9798	0000
21	-	9853	0123	9474	9830	9657	9946	0216	9453	9632	9801	0009
22	0526	-	0131	9488	9840	9670	9954	0224	9460	9636	9808	0015
23	0536	9871	0142	9500	9851	9680	9963	0232	9468	9642	9813	0020
24	-	9881	-	9514	9862	9689	9972	-	9476	9648	9818	0032
25	0556	9891	0162	9527	9872	9700	9981	0248	9481	9654	9824	0038
26	-	9900	0170	9538	9882	9711	9991	0257	9489	9659	9832	0044
27	-	9911	0178	9550	9894	9720	0000	0262	9494	9665	9836	0051
28	0590	9920	0189	9563	9905	9732	0009	0272	9500	9672	9839	0056
29	0600		0198	9576	9916	9740	0020	0278	9507	9676	9843	-
30	0608		0208	8586	9926	9748	0028	0287	9514	9682	9847	0070
31	0626		0215		9936		0039	0294		9688		0076

The reception times are given as decimals of a second with the decimal point omitted.

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
RUGBY MSF 2 500 kc/s 1440

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	0286	9644	9932	9235	-	9448	9752	-	9303	9521	9690	9850
2	-	9657	9942	9246	-	9460	9763	-	9312	-	9697	9856
3	-	9666	9952	-	9622	9472	-	0066	9318	-	9702	9870
4	0320	9671	9962	-	9634	-	-	0074	-	9537	9706	-
5	0332	9682	9971	9282	9648	-	9790	0083	-	9554	9714	-
6	0344	-	-	9293	9658	-	9802	0090	9343	9547	-	9877
7	-	-	-	9305	9669	-	9811	-	9350	9555	-	9889
8	0374	9718	0000	9316	-	9524	9821	-	9358	9559	9727	9900
9	-	-	0010	9330	-	9536	9830	0116	9368	-	9732	9906
10	-	9739	0019	-	9702	9546	-	0126	9375	-	9738	9918
11	0397	9749	0029	-	9715	9556	-	0134	-	9576	9746	-
12	-	9760	0039	9367	9726	-	9863	0142	-	9582	9752	-
13	0431	-	-	9378	9739	-	-	0151	9396	9586	-	9938
14	0435	-	-	9392	9750	9587	9880	-	9402	9593	-	9947
15	-	-	0067	9404	-	9596	9889	-	9411	9598	9767	9958
16	-	9802	0076	-	-	9608	9900	0174	9418	-	9774	9969
17	-	9812	0086	-	9784	9618	-	0182	9426	-	9784	9974
18	0484	9822	0096	-	9794	9628	-	0192	-	9616	9785	-
19	0499	9831	-	-	9808	-	9928	0201	-	9621	9790	-
20	0513	-	-	9462	9818	-	9936	0208	9446	9626	-	0001
21	0525	-	-	9476	9831	9658	9946	-	9454	9632	-	0008
22	0534	9866	0133	9490	-	9669	9956	-	9460	9637	9808	0020
23	-	9877	0144	9502	-	9679	9963	0234	9468	-	9812	0022
24	-	9884	0152	-	9864	9690	-	0242	9476	-	9820	-
25	0555	9893	0162	-	9872	9703	-	0249	-	9653	9826	-
26	0566	9902	0172	9540	9884	-	9993	0258	-	9660	9828	-
27	0589	-	-	9552	9896	-	0002	0264	9496	9664	-	-
28	-	-	-	9566	9906	9732	0012	-	9501	9671	-	0054
29	0604		0200	9577	-	9742	0021	-	9509	9676	9844	0061
30	-		0210	9588	-	9751	0029	0289	9515	-	9846	0068
31	-		0218		9938		-	0296		-		0077

The reception times are given as decimals of a second with the decimal point omitted.

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
PONTOISE FYP 90.9 kc/s 0936

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	032	017	990	028	050	041	059	014	963	975	958	992
2	034	011	988	024	049	040	054	010	956	974	951	000
3	039	020	990	020	049	044	052	006	956	965	951	999
4	044	013	990	020	054	049	050	003	961	965	948	001
5	036	008	009	017	056	051	045	999	960	968	954	990
6	030	012	992	013	060	052	045	007	959	965	958	974
7	026	009	991	020	063	052	048	002	959	960	963	975
8	020	001	987	018	065	053	047	001	960	956	961	994
9	020	008	989	021	060	050	046	002	965	961	958	986
10	024	007	988	020	059	047	042	991	962	954	957	984
11	028	019	993	016	058	055	037	993	963	954	963	989
12	029	008	995	008	059	054	044	990	962	960	971	997
13	029	010	995	008	059	059	043	991	960	965	973	004
14	033	016	000	006	060	069	042	989	957	965	983	007
15	032	017	998	007	058	074	040	986	958	960	990	009
16	030	010	004	015	057	078	036	983	961	953	989	005
17	027	003	010	024	058	070	032	981	962	943	988	004
18	031	000	004	029	077	054	033	981	967	946	985	003
19	031	000	998	032	074	046	031	983	-	945	988	003
20	029	999	988	032	074	045	029	984	977	949	988	001
21	-	002	980	036	070	042	026	976	974	954	988	998
22	017	999	973	045	069	042	019	980	967	950	990	997
23	014	998	-	056	068	050	021	-	962	951	987	985
24	012	996	975	057	061	058	025	984	960	951	985	971
25	007	988	980	058	061	054	029	986	960	950	984	964
26	007	988	985	066	055	054	030	986	-	949	983	972
27	010	983	987	068	057	057	031	982	974	947	979	975
28	012	983	003	063	058	057	027	982	978	959	979	979
29	011		026	055	066	056	025	973	979	948	985	978
30	009		022	056	052	058	022	974	976	951	987	975
31	012		017		048		021	972		951		975

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	PONTOISE FYP 90.9 kc/s 0900					PONTOISE FYP 90.9 kc/s 0908		
	August	September	October	November	December	October	November	December
1	-	963	973	959	-	974	959	992
2	-	957	972	955	003	972	954	003
3	-	955	964	953	000	964	954	001
4	-	959	963	954	004	964	952	002
5	-	-	961	957	-	961	958	992
6	-	958	962	960	979	963	960	978
7	-	958	960	-	977	960	963	977
8	-	956	955	961	986	955	961	989
9	-	961	962	959	986	962	959	986
10	-	962	954	960	984	954	959	983
11	-	961	954	964	989	955	964	989
12	-	-	960	973	-	960	973	000
13	-	959	963	973	007	964	973	008
14	-	957	965	-	009	964	983	011
15	-	958	959	990	-	959	990	-
16	-	961	952	991	007	952	991	005
17	-	964	941	988	004	942	989	004
18	980	966	946	985	006	945	986	006
19	-	-	944	988	-	945	989	002
20	-	976	947	-	-	947	988	-
21	974	973	954	-	998	954	987	997
22	-	967	950	-	000	951	991	999
23	977	962	951	989	986	951	989	985
24	981	962	-	-	975	950	985	974
25	984	960	949	986	-	950	986	-
26	984	964	949	986	-	949	986	972
27	983	979	948	981	-	948	982	979
28	982	976	954	-	978	953	-	978
29	-	979	952	983	978	953	983	978
30	972	975	953	992	975	954	991	975
31	971		-		976	958		976

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	PONTOISE FYP 90.9 kc/s 0806						PONTOISE FYA3 7 428 kc/s 0906		
	April	May	June	July	August	September	October	November	December
1	-	050	021	059	-	965	987	977	009
2	-	-	044	055	-	957	985	970	020
3	-	047	045	052	004	955	-	969	017
4	-	054	049	-	004	960	976	974	021
5	-	056	-	047	001	-	973	974	-
6	-	060	-	047	004	958	974	976	997
7	-	062	-	048	002	958	973	-	978
8	-	062	059	049	-	956	-	977	000
9	-	-	051	046	003	962	973	978	004
10	-	059	048	043	994	963	-	977	999
11	-	058	055	-	992	962	971	981	004
12	011	060	055	044	993	-	972	988	-
13	008	059	-	044	990	960	976	992	022
14	014	060	068	043	989	958	977	-	026
15	007	059	076	040	-	959	971	007	023
16	-	-	077	037	986	962	964	008	-
17	-	061	070	032	981	962	-	008	024
18	-	076	057	-	981	966	957	004	021
19	-	072	049	033	981	-	956	006	-
20	031	074	-	028	983	975	962	007	-
21	038	069	041	022	976	973	964	-	011
22	045	069	042	019	-	968	968	009	013
23	045	-	050	021	980	959	967	008	000
24	055	064	059	023	983	960	-	003	-
25	-	059	054	-	986	960	963	005	-
26	069	055	054	-	985	-	966	002	-
27	072	056	-	029	982	974	965	000	-
28	060	059	057	027	982	978	967	-	996
29	056	055	056	026	-	978	970	006	992
30	056	-	059	022	975	974	975	014	990
31		050		021	969		-		989

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
HAMBURG 6 075 kc/s 1100

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	-	003	975	993	-	024	989	-	969	930	923	-
2	002	-	-	994	-	021	989	-	966	928	-	961
3	-	002	979	996	030	019	991	969	-	-	-	966
4	006	999	-	-	-	016	-	968	-	928	930	968
5	003	000	978	004	029	-	992	-	-	929	-	-
6	004	999	976	999	028	-	991	964	952	925	941	968
7	004	-	-	001	026	-	992	965	948	-	-	968
8	007	996	976	999	026	010	993	-	947	924	-	967
9	006	996	974	001	-	009	996	968	946	926	-	967
10	-	995	974	001	026	011	996	-	949	-	956	-
11	006	991	974	-	025	009	-	970	948	920	958	965
12	007	993	977	004	026	007	995	968	-	918	966	-
13	008	994	978	011	028	-	992	970	946	917	968	965
14	010	-	-	015	028	005	991	971	945	918	-	963
15	011	989	982	022	032	005	992	-	945	917	970	961
16	010	989	986	-	-	-	948	971	-	917	970	962
17	-	989	988	-	034	-	990	970	-	-	-	962
18	005	985	988	-	031	005	-	972	946	915	973	961
19	006	983	990	-	030	-	989	973	-	916	971	-
20	005	981	989	055	029	-	-	974	946	916	970	962
21	003	-	-	058	030	007	985	974	944	-	-	960
22	002	978	988	062	026	-	985	-	944	916	966	960
23	001	976	988	064	-	006	983	977	943	915	966	960
24	-	977	989	063	027	004	-	976	944	-	966	-
25	003	979	990	-	024	-	-	978	-	912	966	-
26	003	982	-	057	022	002	979	978	-	914	-	-
27	-	979	989	054	-	-	978	979	937	918	961	-
28	003	-	-	050	020	000	976	977	933	918	-	966
29	002		991	046	022	000	976	-	931	-	961	967
30	002		992	042	-	996	973	973	931	917	960	968
31	-		992		026		974	970		-		971

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	MOSCOW RWM2 5 380 kc/s 1406		MOSCOW RWM2 5 380 kc/s 1600			MOSCOW RWM2 5 380 kc/s 1606		
	November	December	January	November	December	January	November	December
1	960	953	974	898	917	975	898	918
2	958	956	-	896	917	-	896	917
3	956	964	-	902	920	-	900	921
4	944	-	-	893	-	971	893	-
5	945	-	977	888	-	978	888	-
6	-	957	977	-	924	977	-	925
7	-	961	974	-	927	975	-	928
8	937	957	972	883	928	973	880	929
9	933	963	-	880	932	-	879	933
10	936	930	-	876	934	-	876	935
11	934	-	020	881	-	015	881	-
12	935	-	018	878	-	018	877	-
13	-	971	021	-	943	022	-	942
14	-	002	025	-	944	026	-	944
15	932	982	028	876	945	029	883	945
16	936	983	-	886	949	-	886	948
17	932	982	-	887	951	-	886	951
18	930	-	033	889	-	035	890	-
19	929	-	035	889	-	035	889	-
20	-	986	034	-	957	035	-	957
21	-	991	036	-	957	036	-	957
22	937	984	035	892	956	036	893	956
23	932	989	-	894	960	-	895	960
24	942	-	-	895	-	-	896	-
25	941	-	037	899	-	037	900	-
26	939	-	035	899	-	035	901	-
27	-	-	038	-	-	038	-	-
28	-	003	036	-	953	036	-	952
29	948	991	035	911	952	034	911	951
30	957	992	-	911	950	-	912	949
31		993	-		949	-		948

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	MOWSCOW RWM4 7 690 kc/s							MOSCOW RWM1 10 060 kc/s				
	1408	1600			1606			1406			1600	1606
	January	February	March	October	February	March	October	February	March	October	April	April
1	988	031	983	-	032	983	-	001	980	944	999	001
2	-	030	-	-	030	981	-	999	980	-	002	003
3	-	029	-	-	029	979	-	999	979	-	-	-
4	982	029	975	-	029	976	970	995	978	926	-	-
5	978	028	971	967	028	992	968	002	980	924	008	009
6	982	-	-	967	-	-	969	-	-	922	007	008
7	972	-	-	968	-	-	968	-	-	916	010	012
8	977	025	963	965	025	963	967	015	976	923	008	010
9	-	023	960	-	024	961	-	015	975	-	009	011
10	-	021	957	-	021	958	-	013	977	-	-	-
11	963	020	957	958	021	957	958	005	980	924	-	-
12	956	-	958	959	019	959	956	010	980	927	-	-
13	975	-	-	946	-	-	946	-	-	930	-	-
14	976	-	-	948	-	-	948	-	-	937	-	-
15	987	-	953	944	017	953	944	008	979	939	-	-
16	-	013	950	-	014	951	-	996	976	-	-	-
17	-	-	948	-	014	948	-	994	973	-	-	-
18	014	011	949	935	011	950	934	986	978	952	-	-
19	025	008	946	930	008	947	930	990	975	953	-	-
20	038	-	-	927	-	-	926	-	-	955	-	-
21	035	-	-	923	-	-	922	-	-	953	-	-
22	047	998	960	921	999	961	920	983	971	955	-	-
23	-	997	966	-	998	967	-	990	971	-	-	-
24	-	998	970	-	998	970	-	984	975	-	-	-
25	034	994	973	907	994	974	907	974	973	959	-	-
26	024	992	977	907	992	978	907	983	976	957	-	-
27	010	-	-	907	-	-	906	-	-	960	-	-
28	013	-	-	905	-	-	906	-	-	957	-	-
29	016	-	988	907	-	989	904	-	992	966	-	-
30	-	-	988	-	-	990	-	-	990	-	-	-
31	-	-	996	-	-	997	-	-	996	-	-	-

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
MOSCOW RWM3 11 450 kc/s 1200

Day of Month	February	March	April	May	June	July	August	September	October	November	December
1	032	982	000	-	036	039	-	992	972	898	913
2	030	980	002	-	038	038	-	990	-	896	914
3	029	979	006	016	037	-	031	989	-	893	920
4	029	976	-	018	-	-	029	-	970	891	921
5	028	972	007	021	-	039	028	-	968	887	-
6	027	969	009	024	-	038	028	990	966	884	924
7	-	-	008	025	-	040	-	988	969	-	926
8	024	962	007	-	036	038	-	986	969	880	929
9	023	960	009	-	039	038	026	986	966	880	930
10	022	-	010	029	038	-	025	984	-	876	933
11	019	955	-	031	041	-	023	-	959	876	938
12	019	958	011	032	-	040	022	-	956	876	-
13	018	950	012	035	-	038	020	983	952	881	943
14	-	-	011	037	043	040	-	984	948	-	945
15	016	953	012	-	042	039	-	983	944	881	947
16	013	950	-	-	-	040	015	982	942	883	948
17	012	949	-	041	045	-	012	984	-	889	951
18	010	949	-	042	045	-	010	-	935	874	952
19	009	945	-	039	-	041	007	-	933	883	-
20	004	946	016	044	-	043	005	985	931	890	957
21	-	-	016	043	044	042	-	982	924	-	957
22	997	959	011	-	042	042	-	983	-	892	957
23	997	962	004	-	038	041	998	982	-	-	958
24	999	969	-	034	039	-	997	981	-	895	956
25	994	973	-	038	038	-	997	-	906	894	-
26	992	976	015	038	-	042	998	-	907	898	-
27	988	980	011	038	-	039	999	978	908	901	-
28	-	-	015	041	040	036	-	976	906	-	954
29		985	012	-	040	033	-	974	907	906	954
30		989	013	-	039	032	996	973	903	910	952
31		992		039		-	-		-		950

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
MOSCOW RWM3 11 450 kc/s 1206

Day of Month	February	March	April	May	June	July	August	September	October	November	December
1	032	983	002	-	037	039	-	992	972	899	913
2	030	980	003	-	038	038	-	990	-	896	917
3	030	980	007	015	037	-	029	989	-	893	921
4	029	976	-	018	-	-	029	-	970	891	922
5	028	972	009	020	-	039	028	-	967	888	-
6	028	969	010	023	-	038	028	989	964	883	925
7	-	-	010	023	-	039	-	987	970	-	927
8	024	964	009	-	035	037	-	986	967	879	930
9	023	962	011	-	038	037	026	986	964	880	932
10	023	957	012	029	037	-	026	985	-	874	934
11	020	956	-	031	040	-	024	-	959	876	938
12	019	959	012	033	-	039	022	-	957	875	-
13	019	951	014	035	-	038	018	983	952	881	943
14	-	-	012	037	043	039	-	982	948	-	944
15	018	954	013	-	042	039	-	983	945	880	947
16	014	951	-	-	045	039	014	981	942	883	949
17	013	949	-	041	046	-	012	984	-	890	951
18	010	950	-	044	045	-	010	-	935	873	952
19	010	946	-	040	-	041	007	-	931	885	-
20	004	948	015	044	-	043	004	984	930	890	957
21	-	-	015	044	044	042	-	981	923	-	957
22	998	960	011	-	042	040	-	983	-	893	956
23	998	963	005	-	038	040	998	982	-	-	958
24	999	970	-	034	038	-	999	980	-	895	956
25	994	974	-	037	037	-	998	-	906	895	-
26	993	977	015	037	-	041	996	-	906	898	-
27	987	981	010	037	-	038	997	978	907	902	-
28	-	-	015	040	039	036	-	976	906	-	953
29		989	011	-	041	032	-	974	907	907	954
30		990	013	-	039	032	995	974	903	911	951
31		993		039		-	992		-		948

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
MOSCOW RWM3 11 450 kc/s 1408

Day of Month	April	May	June	July	August	September
1	004	-	107	083	-	974
2	006	-	102	094	-	976
3	-	040	106	-	018	-
4	-	037	-	-	027	-
5	016	028	-	091	012	-
6	014	032	-	098	018	963
7	013	020	-	103	-	965
8	018	-	099	104	-	963
9	020	-	096	105	033	966
10	-	006	104	-	024	970
11	-	002	092	-	025	-
12	-	001	-	110	030	-
13	017	003	-	115	033	975
14	022	996	076	118	-	965
15	029	-	070	114	-	976
16	-	-	073	107	036	976
17	-	-	072	-	036	972
18	-	999	070	-	028	-
19	-	012	-	081	025	-
20	055	000	-	064	025	980
21	059	024	071	055	-	974
22	064	-	069	049	-	976
23	064	-	068	037	024	977
24	-	054	067	-	018	973
25	-	052	071	-	015	-
26	061	064	-	026	008	-
27	055	063	-	022	001	979
28	051	083	078	020	-	963
29	050	-	082	021	-	963
30	050	-	082	023	994	954
31		099		-	990	

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
CANBERRA VHP 8 478 kc/s 0800

Day of Month	April	May	June	July	August	September
1	-	039	-	-	-	954
2	-	-	050	-	-	956
3	-	045	050	007	944	957
4	-	-	050	-	946	959
5	-	052	-	-	947	-
6	-	055	-	-	947	960
7	-	058	-	-	949	963
8	-	060	052	-	-	963
9	-	-	051	-	948	965
10	-	060	053	-	948	965
11	-	060	-	-	949	966
12	974	060	041	-	950	-
13	978	060	-	-	949	964
14	981	061	036	-	947	961
15	-	061	034	-	-	960
16	-	-	031	-	946	959
17	-	060	-	950	945	965
18	-	059	-	-	945	-
19	-	058	019	950	946	-
20	000	058	-	944	945	-
21	001	060	010	942	946	973
22	006	059	007	941	-	973
23	009	-	-	941	948	977
24	013	058	999	944	948	-
25	-	056	-	-	947	982
26	018	057	991	-	947	-
27	023	057	-	944	952	985
28	026	056	988	945	952	985
29	032	055	983	943	-	986
30	035	-	983	944	953	988
31		052		944	953	

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
CANBERRA VHP 8 478 kc/s 1400

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	973	980	986	944	-	-	-	-	935	970	964	943
2	-	978	986	943	-	029	-	-	-	-	964	942
3	-	980	-	-	-	-	-	-	-	-	964	939
4	973	980	988	-	027	-	-	-	-	984	964	-
5	973	980	989	945	030	-	-	-	-	975	964	-
6	972	-	-	944	034	-	-	930	943	977	-	932
7	972	-	-	-	036	-	-	-	943	978	-	930
8	971	983	993	946	-	-	-	-	944	981	968	928
9	-	985	994	947	-	034	-	-	946	-	972	929
10	-	-	-	-	-	-	-	-	946	-	970	929
11	969	985	997	-	039	-	-	930	-	982	972	-
12	969	985	995	953	040	-	-	930	-	983	974	-
13	-	-	-	957	038	-	-	928	-	983	-	927
14	970	-	-	960	040	018	-	-	944	985	-	928
15	967	985	995	-	-	017	-	-	939	984	972	927
16	-	-	992	-	-	-	-	926	940	-	970	929
17	-	-	991	-	-	-	-	-	947	-	969	928
18	969	-	987	-	038	-	-	926	-	978	-	-
19	969	984	-	-	037	-	-	-	-	976	967	-
20	969	-	-	979	036	-	926	927	954	975	-	931
21	970	-	-	980	036	-	921	-	955	975	-	931
22	971	-	-	-	-	981	-	-	954	973	960	931
23	-	983	970	988	-	984	-	929	958	-	960	931
24	-	984	-	-	-	-	-	-	960	-	958	-
25	972	-	-	-	-	-	-	929	-	969	955	-
26	-	-	959	997	-	-	-	930	-	968	954	-
27	974	-	-	001	-	-	-	932	965	971	-	-
28	974	-	-	005	-	-	926	-	965	966	-	936
29	975	-	951	010	-	-	924	-	966	966	948	935
30	-	-	972	013	-	-	-	933	-	-	946	935
31	-	-	944	-	031	-	-	934	-	-	-	937

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	OTTAWA CHU 14 870 kc/s 1150			OTTAWA CHU 14 870 kc/s 1150								
	October	November	December	April	May	June	July	August	September	October	November	December
1	-	-	-	995	-	984	-	-	-	943	947	998
2	-	942	-	994	-	-	957	-	-	-	-	993
3	-	-	-	-	005	976	-	023	-	-	935	993
4	-	-	988	-	009	-	-	-	-	944	932	-
5	-	-	-	004	-	-	-	-	-	-	929	-
6	-	928	-	006	019	-	-	-	967	946	-	991
7	948	-	-	008	023	-	-	-	967	-	-	991
8	947	-	-	011	-	-	-	-	967	-	942	992
9	949	-	-	014	-	974	-	-	-	-	943	993
10	-	-	-	-	017	976	-	-	964	-	943	992
11	947	-	-	-	-	973	-	-	-	947	943	-
12	947	-	-	-	-	-	-	954	-	948	944	-
13	948	943	-	013	020	-	-	952	-	-	-	988
14	947	-	-	015	018	978	-	-	-	-	-	989
15	946	-	-	011	-	-	-	-	962	946	944	991
16	-	942	-	-	-	-	-	943	961	-	942	996
17	-	-	-	-	014	-	-	940	960	-	998	002
18	-	-	-	-	013	958	-	-	-	-	995	-
19	-	-	-	-	-	-	981	956	-	944	992	-
20	-	-	-	013	-	-	981	-	-	-	-	000
21	-	-	-	009	008	952	983	-	-	942	-	000
22	-	-	-	010	-	-	-	-	-	-	009	999
23	-	-	-	-	-	948	000	956	947	-	011	998
24	-	-	-	-	-	-	-	-	946	-	008	-
25	-	-	-	-	-	970	-	-	-	-	007	-
26	-	-	-	013	994	-	-	960	-	969	004	-
27	-	001	-	009	993	-	-	961	943	918	-	-
28	-	-	-	004	990	965	-	-	944	947	-	995
29	-	-	-	004	-	963	021	-	943	944	995	995
30	943	-	-	-	-	-	-	963	942	-	997	995
31	-	-	-	-	-	-	-	-	-	-	-	995

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	WASHINGTON NSS 9 425 kc/s		WASHINGTON NSS 12 804 kc/s							
	1000	1200	1000							
	December	December	April	May	June	July	August	September	October	November
1	950	944	-	018	017	005	-	962	-	-
2	-	949	-	015	029	-	-	940	950	-
3	-	950	-	014	028	012	991	949	-	941
4	-	948	-	015	015	010	-	-	952	937
5	949	-	-	021	014	008	972	-	942	-
6	948	947	-	028	011	002	973	953	939	-
7	945	944	-	017	010	008	971	955	936	939
8	951	949	-	016	020	004	-	952	933	-
9	950	950	-	022	014	004	985	957	936	939
10	952	948	-	016	018	002	971	-	-	-
11	949	950	-	019	020	-	974	957	933	-
12	944	-	-	-	021	996	980	953	933	-
13	944	944	-	011	011	999	980	-	-	-
14	-	954	-	-	015	-	978	-	-	-
15	954	-	-	020	013	007	978	-	931	-
16	-	-	-	024	011	001	977	-	934	-
17	952	951	-	005	000	998	968	-	-	-
18	-	953	-	025	995	-	-	957	-	941
19	-	-	-	-	993	002	972	-	927	945
20	-	952	-	008	-	002	963	-	-	-
21	-	954	-	007	997	010	-	-	943	-
22	965	965	-	006	997	-	-	-	943	-
23	964	964	-	003	001	000	963	-	-	-
24	950	949	-	012	002	000	-	946	-	-
25	950	-	-	026	010	-	955	-	-	-
26	948	-	-	029	007	982	973	948	-	-
27	-	-	-	024	008	983	972	948	-	933
28	949	948	-	012	998	984	972	937	931	-
29	956	950	-	016	999	995	-	945	944	940
30	951	958	016	-	008	990	960	-	-	-
31	-	959		017		985	-		-	

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	WASHINGTON NSS 12 804 kc/s 1200							WASHINGTON NSS 12 804 kc/s 1400				
	April	June	August	September	October	November	December	June	September	October	November	December
1	-	-	-	960	945	929	947	-	-	945	930	947
2	-	-	-	960	-	930	953	-	-	-	931	955
3	-	-	-	948	-	941	952	-	-	-	937	954
4	-	-	-	-	946	936	951	-	-	945	936	-
5	-	-	-	-	940	940	-	-	-	942	940	-
6	-	-	-	953	941	939	950	-	-	941	-	949
7	-	-	-	955	939	-	947	-	-	940	-	947
8	-	-	-	958	932	933	952	-	-	933	933	953
9	-	-	-	956	934	938	953	-	-	-	939	951
10	-	-	-	954	-	936	951	-	-	-	937	952
11	-	-	982	-	932	935	953	-	-	932	936	-
12	-	-	-	-	933	932	-	-	-	933	941	-
13	008	-	-	944	944	947	948	-	-	932	-	947
14	-	-	-	947	933	-	958	-	-	933	-	959
15	-	-	-	954	932	940	953	-	-	934	938	955
16	-	-	-	954	934	942	949	-	-	-	941	949
17	-	-	-	954	-	947	947	-	-	-	938	947
18	-	-	972	-	929	940	950	-	-	929	940	-
19	-	-	972	-	942	945	-	-	-	942	947	-
20	-	-	963	939	943	941	950	-	-	942	-	950
21	-	-	-	936	942	-	951	-	-	942	-	952
22	-	-	-	952	945	939	962	-	-	946	939	962
23	-	-	966	-	-	939	962	-	-	-	940	962
24	-	997	968	945	-	931	951	997	-	-	932	-
25	-	011	969	-	-	932	-	-	-	930	932	-
26	-	-	974	-	935	935	-	-	-	936	934	-
27	-	-	972	935	-	933	-	-	933	924	-	-
28	-	-	-	935	943	-	950	-	-	944	-	949
29	-	-	-	944	945	939	952	-	-	945	941	952
30	-	-	960	945	938	949	959	-	-	-	948	960
31			955		-		956			-		957

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	WASHINGTON NSS 12 804 kc/s 1600			WASHINGTON NSS 17 050.4 kc/s 1200							
	October	November	December	January	February	March	April	May	June	July	August
1	-	936	947	972	-	-	-	-	018	008	-
2	-	934	957	-	-	-	-	-	028	-	-
3	-	940	953	-	-	-	-	021	016	-	990
4	941	936	-	966	-	-	-	022	-	-	976
5	942	946	-	969	951	-	-	-	-	008	972
6	941	-	953	-	952	-	982	025	-	004	-
7	943	-	956	972	-	-	980	018	-	005	-
8	933	938	956	968	949	-	-	-	995	003	-
9	-	937	956	971	-	-	-	-	013	003	967
10	-	937	955	-	-	968	990	013	017	-	-
11	934	936	-	-	960	-	-	016	019	-	-
12	934	944	-	-	964	-	-	024	-	998	977
13	929	-	959	-	-	-	-	010	-	995	976
14	930	-	958	-	-	-	005	010	015	004	-
15	931	937	955	-	-	-	007	-	014	006	-
16	-	940	949	-	-	-	-	-	017	999	966
17	-	940	946	-	-	976	-	006	001	-	964
18	-	940	-	956	-	-	-	-	995	-	-
19	942	942	-	-	-	-	-	004	-	002	-
20	926	-	950	-	-	-	996	007	-	002	-
21	943	-	951	-	-	-	-	005	993	009	-
22	-	937	961	959	-	-	000	-	997	004	-
23	-	940	963	960	-	-	-	-	998	999	-
24	-	931	-	-	-	-	-	015	-	-	-
25	930	931	-	-	-	-	-	023	-	-	-
26	936	935	-	-	-	972	017	-	-	984	-
27	926	-	-	-	-	973	012	016	-	986	-
28	944	-	957	-	-	-	019	012	000	983	-
29	945	948	951	-	-	-	021	-	002	995	-
30	-	948	956	953	-	-	016	-	008	991	-
31	-	-	958	-	-	-	-	017	-	-	-

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME

Day of Month	WASHINGTON NSS 17 050.4 kc/s 1400									WASHINGTON NSS 17 050.4 kc/s 1600				
	January	February	March	April	May	June	July	August	September	January	February	March	April	December
1	969	959	960	991	-	018	-	-	946	970	952	960	989	-
2	-	962	-	978	-	028	011	-	962	-	962	-	978	-
3	-	958	953	-	022	016	-	991	948	-	955	-	-	-
4	963	953	956	-	021	-	-	974	-	962	953	954	-	-
5	968	951	952	984	024	-	009	971	-	968	951	953	983	-
6	978	-	-	982	026	-	999	972	952	978	-	-	982	-
7	972	-	-	981	017	-	004	-	957	972	-	-	982	-
8	968	951	956	991	-	009	002	-	960	968	950	956	988	-
9	-	956	-	990	-	013	003	967	958	-	962	956	990	-
10	-	955	969	-	012	018	-	981	956	-	956	-	-	953
11	961	-	975	-	015	018	-	978	-	966	-	966	-	-
12	964	964	-	-	006	-	000	976	-	965	-	-	-	-
13	966	-	-	011	009	-	995	976	943	969	-	-	-	959
14	971	-	-	005	026	016	004	-	947	971	-	-	-	958
15	961	-	-	008	-	014	-	-	956	961	960	-	-	955
16	-	-	967	-	-	017	999	966	957	-	-	967	-	954
17	-	-	975	-	-	000	-	965	956	-	972	975	-	948
18	956	976	973	-	027	991	-	971	-	955	-	-	-	-
19	964	-	-	-	007	-	000	970	-	958	-	959	-	-
20	962	-	-	994	006	-	002	962	939	950	-	-	-	950
21	959	-	-	004	005	992	003	-	947	957	-	-	-	951
22	961	-	986	999	-	995	004	-	951	958	-	960	-	961
23	-	973	-	003	-	998	999	964	951	-	972	970	-	962
24	-	978	987	-	016	-	-	960	948	-	976	-	-	-
25	959	-	983	-	019	014	-	975	-	959	961	983	-	-
26	-	-	973	016	025	-	983	976	-	-	-	973	-	-
27	957	-	-	012	016	-	985	973	-	958	-	-	-	-
28	957	-	-	020	013	000	983	-	935	955	-	-	-	958
29	952	-	992	020	-	002	995	-	943	952	-	992	-	951
30	-	-	992	016	-	007	991	959	944	-	-	-	-	954
31	-	-	992	-	015	-	-	954	-	-	-	-	-	957

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
MONTE GRANDE LQC 17 550 kc/s 1005

Day of Month	January	February	March	April	May	August	September	October	November	December
1	048	006	017	035	053	-	009	023	044	018
2	050	991	019	036	-	-	010	-	046	012
3	-	997	018	038	057	-	006	959	024	013
4	050	990	021	038	057	-	003	016	025	005
5	053	988	-	038	-	-	001	019	025	998
6	057	991	028	041	-	-	998	030	028	994
7	065	-	028	049	054	-	995	030	025	989
8	036	990	033	051	-	-	995	028	026	997
9	039	991	040	058	-	-	992	026	028	990
10	-	000	038	060	-	-	007	-	028	028
11	044	003	039	-	-	-	004	019	027	024
12	049	003	042	065	-	-	001	017	026	022
13	057	004	040	069	-	-	996	014	024	021
14	061	005	038	055	-	-	992	009	021	021
15	031	007	042	052	-	-	-	045	018	006
16	033	008	042	038	-	-	018	046	017	004
17	034	018	024	037	-	-	016	-	023	001
18	032	019	022	039	-	-	016	007	022	998
19	034	-	025	040	-	-	-	009	021	995
20	034	024	026	042	-	-	010	012	019	995
21	035	024	-	037	-	-	008	011	016	992
22	036	-	026	039	-	-	027	023	016	012
23	003	030	-	041	-	-	028	014	013	013
24	006	010	028	042	-	-	028	013	019	022
25	010	012	037	-	-	960	025	013	021	028
26	006	014	030	045	-	953	023	015	018	028
27	011	014	030	-	-	-	019	034	016	027
28	004	016	032	051	-	988	018	037	017	029
29	004		034	048	-	-	027	038	012	040
30	003		040	052	-	-	026	041	009	037
31	004		032		-	966		042		038

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TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
MONTE GRANDE LQC 17 550 kc/s 1150

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	046	011	015	032	-	127	088	-	953	021	040	019
2	051	013	012	037	-	105	086	-	959	-	048	013
3	-	000	017	040	042	-	-	052	961	-	020	007
4	055	993	021	-	043	-	-	051	-	016	022	004
5	057	993	019	041	044	-	090	044	-	013	019	-
6	065	993	025	033	037	-	094	044	974	020	023	997
7	064	-	-	039	047	-	039	-	981	023	-	985
8	038	993	028	041	-	079	037	-	986	021	020	016
9	023	993	032	050	-	078	032	047	983	023	020	994
10	-	003	037	051	047	084	-	049	021	-	025	029
11	045	004	037	-	044	084	-	050	-	971	023	024
12	054	006	039	057	-	-	030	998	-	016	022	-
13	058	007	038	058	027	-	022	000	001	014	017	022
14	030	-	-	044	026	-	059	-	990	009	-	021
15	034	012	033	046	-	077	054	-	020	039	019	007
16	035	009	038	-	-	086	056	004	013	047	008	999
17	-	017	022	-	017	088	-	987	012	-	000	999
18	042	010	019	-	099	086	-	979	-	009	022	995
19	038	-	018	-	056	-	050	980	-	011	019	-
20	031	-	018	031	055	-	055	972	007	008	020	999
21	032	-	-	025	049	087	062	-	007	007	-	993
22	014	023	032	024	-	088	-	-	027	009	023	004
23	009	032	032	034	-	-	046	957	027	013	017	008
24	-	009	033	-	060	083	-	951	023	-	028	018
25	013	008	-	-	056	087	-	962	-	012	025	-
26	017	011	026	033	064	-	052	956	-	011	015	-
27	012	011	027	032	091	-	050	968	016	033	021	-
28	017	-	-	034	096	102	051	-	-	035	-	029
29	007		035	034	-	101	049	-	028	030	014	041
30	007		040	026	-	084	052	973	024	034	008	042
31	-		032		124		-	963		-		044

TABLE II. - TIMES OF RECEPTION OF RADIO TIME SIGNALS RELATIVE TO PROVISIONAL UNIFORM TIME
BELTSVILLE WWV 10, 15 and 20 Mc/s

Day of Month	January	February	March	April	May	June	July	August	September	October	November	December
1	974	973	963	969	020	020	987	-	967	941	913	889
2	976	973	-	971	-	019	986	983	966	940	912	889
3	-	973	962	972	022	018	985	984	965	938	912	888
4	975	972	962	-	023	018	-	983	965	938	911	887
5	975	972	961	975	024	015	984	982	-	937	910	886
6	975	971	962	977	026	014	984	982	963	936	909	885
7	975	-	-	978	026	013	983	982	962	935	-	884
8	975	970	961	980	028	011	983	-	961	935	907	883
9	975	970	961	982	-	011	982	981	961	934	906	883
10	-	970	961	985	028	010	982	981	959	933	906	882
11	974	970	961	-	029	008	-	980	959	933	905	881
12	975	968	962	988	029	007	982	980	959	932	904	880
13	974	968	961	990	029	-	981	979	957	931	903	878
14	974	-	-	992	029	005	981	980	956	930	-	877
15	974	968	962	993	030	004	982	979	955	930	902	876
16	974	-	961	-	030	003	981	978	954	929	901	875
17	-	-	962	998	030	002	982	977	953	928	901	874
18	973	967	962	999	030	000	981	976	953	928	900	874
19	974	965	962	001	030	000	981	976	-	926	899	-
20	974	-	-	002	029	-	981	975	950	925	898	871
21	973	-	-	005	029	998	981	975	949	924	-	870
22	973	-	962	006	029	996	981	975	948	-	897	870
23	974	964	964	008	029	995	981	973	947	923	896	869
24	-	964	963	010	027	994	982	973	946	-	895	868
25	974	963	965	-	026	994	982	972	946	-	894	-
26	973	-	964	013	026	992	982	971	-	919	893	-
27	974	-	965	015	025	991	982	971	943	918	892	866
28	974	-	-	016	024	990	983	970	943	917	-	865
29	974		966	017	023	990	983	970	942	916	891	864
30	973		966	019	-	989	983	968	941	916	890	863
31	-		968		021		983	968		-		862

TABLE II. - CORRECTIONS FOR POLAR VARIATION AND ANNUAL FLUCTUATION

Date	GBR 1000 (G.M.T.)	Correction		GBR 1000 (P.U.T.)	Date	GBR 1000 (G.M.T.)	Correction		GBR 1000 (P.U.T.)
		P.V.	A.F.				P.V.	A.F.	
1954					1954				
Jan. 2	007	+001	+003	011	July 1	015	+001	+002	018
7	004	+002	+004	010	6	023	000	-003	020
12	000	+003	+005	008	11	033	-002	-008	023
17	995	+005	+006	006	16	042	-003	-013	026
22	992	+006	+006	004	21	051	-004	-018	029
27	988	+007	+007	002	26	056	-005	-023	028
					31	063	-007	-027	029
Feb. 1	988	+008	+007	003					
6	984	+009	+008	001	Aug. 5	066	-008	-031	027
11	981	+010	+009	000	10	067	-009	-034	024
16	978	+010	+009	997	15	067	-010	-037	020
21	974	+011	+010	995	20	064	-012	-039	013
26	973	+012	+011	996	25	059	-013	-041	005
					30	056	-014	-042	000
Mar. 3	972	+012	+012	996					
8	970	+013	+013	996	Sept. 4	055	-015	-043	997
13	969	+013	+014	996	9	056	-016	-043	997
18	964	+014	+015	993	14	056	-017	-042	997
23	959	+014	+015	988	19	055	-018	-041	996
28	953	+014	+016	983	24	052	-019	-039	994
					29	048	-020	-037	991
Apr. 2	932	+014	+033	979					
7	927	+013	+034	974	Oct. 4	043	-021	-035	987
12	924	+013	+035	972	9	037	-021	-033	983
17	924	+013	+035	972	14	030	-022	-030	978
22	923	+013	+035	971	19	025	-022	-027	976
27	925	+012	+034	971	24	021	-022	-025	974
					29	016	-022	-022	972
May 2	925	+012	+033	970					
7	927	+011	+032	970	Nov. 3	013	-022	-019	972
12	928	+011	+031	970	8	015	-022	-016	977
17	932	+010	+029	971	13	019	-022	-014	983
22	937	+009	+027	973	18	020	-021	-011	988
27	944	+009	+024	977	23	024	-021	-009	994
					28	024	-020	-007	997
June 1	954	+008	+021	983					
6	964	+007	+017	988	Dec. 3	025	-020	-005	000
11	973	+006	+013	992	8	024	-019	-003	002
16	981	+005	+009	995	13	024	-019	-002	002
21	994	+004	+005	003	18	018	-018	-001	999
26	008	+002	+001	011	23	013	-018	+001	996
					28	010	-017	+002	995

Note: A discontinuity of about 16 milliseconds occurs between March and April in the adopted G.M.T. and A.F.
The continuity of the provisional uniform time system has been preserved.

SECTION A
MERIDIAN ASTRONOMY

Variation of Latitude

1954

VARIATION OF LATITUDE, 1954.

The Variation of Latitude was not determined at Greenwich in 1954.

The following values of the latitude variation (observed *minus* mean) were taken from the results of the International Latitude Service.

	"
1954.0	+ .07
.1	-.05
.2	-.15
.3	-.23

These corrections, applicable to observed Declination, have been used in the Transit-Circle reductions.