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PUBLICATIONS OF THE EARTH PHYSICS BRANCH

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VOLUME 40 - NO. 8

**record of observations at
agincourt magnetic observatory
1968 and january to march 1969**

W. R. DARKER and D. L. McKEOWN

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DEPARTMENT OF ENERGY, MINES AND RESOURCES

OTTAWA, CANADA 1970

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record of observations at agincourt magnetic observatory 1968 and january to march 1969

W. R. DARKER and D. L. McKEOWN

Geographic Coordinates: 43° 47'N; 79° 16'W
Geomagnetic Coordinates: 55.0°N; 347.0°E

Officer-in-Charge: W.R. Darker
Assistant: D.L. McKeown

for H, I.M.S. = QHM No. 258 -18.3
= QHM No. 571 -12.8
= QHM No. 572 -11.7
= QHM No. 573 -15.2
= Schuster-Smith + 0.0
for I, I.M.S. = Ruska No. 11650
-0.42'
and for F, I.M.S. = Proton Precession
Magnetometer + 0.0
(4257.60 Hz per
oersted.)

Introduction

Agincourt magnetic observatory was established in 1898 one half mile south of the old village of Agincourt (now part of metropolitan Toronto). Industrial expansion continues in the vicinity of the observatory, but it is believed that artificial disturbances have not impaired the validity of the values reported in this record of observations. However, the expansion of an adjacent highway has forced the abandonment of this location and as of March 31, 1969 Agincourt magnetic observatory ceased operations.

A new observatory has been built near Ottawa to replace and continue the long series of magnetic measurements which commenced in Toronto in 1843. The new observatory which began operations on July 1, 1968 is to be known as Ottawa magnetic observatory*.

Equipment

Absolute instruments. Declination was determined by Ruska magnetometer No. 6513. Total Intensity was measured by a proton precession magnetometer. Ruska earth inductor No. 11650 was used to determine inclination. Horizontal Intensity was measured by a Schuster-Smith coil magnetometer and by QHM's Nos. 258, 391, 571, 572, and 573.

*Mailing Address:

Ottawa Magnetic Observatory,
c/o Geomagnetic Laboratory
Earth Physics Branch
Department of Energy, Mines and Resources,
Ottawa, Ontario

In July, 1968, QHM's Nos. 258 and 391 were transferred to the new Ottawa magnetic observatory.

In July, 1967, QHM's Nos. 571, 572, and 573, along with Ruska earth inductor No. 11650 were compared with the United States magnetic standards at Fredericksburg magnetic observatory. Subsequently, through inter-comparison with QHM's Nos. 571, 572, and 573, QHM No. 258 was standardized at the Agincourt magnetic observatory.

These newly determined I. M. S. corrections were adopted and applied to all appropriate Agincourt magnetic observations, commencing on January 1, 1968.

International Magnetic Standards corrections adopted for all instruments are as follows:

for D, I.M.S. = Ruska No. 6513
+ 0.0'

Variometers. A Ruska variometer was operated continuously at normal sensitivity with a paper speed of 20 mm/hr to produce standard magnetograms.

A la Cour variometer, operating continuously at reduced sensitivity and with a paper speed of 15 mm/hr provided auxiliary photographic records.

An immediately visible record of D, H, and Z was produced by a fluxgate magnetometer operating at a chart speed of 20 mm/hr and a sensitivity of 4.0γ/mm.

The scale values per millimetre of the photographic variometers were as follows:

1968	Ruska			la Cour		
	H γ/mm	D '/mm	Z γ/mm	H γ/mm	D '/mm	Z γ/mm
Jan.	5.45	1.07	5.66	11.6	0.95	16.8
Feb.	5.39	1.07	5.75	11.5	0.94	16.8
Mar.	5.41	1.07	5.78	11.6	0.94	16.9
Apr.	5.48	1.07	5.74	11.5	0.94	16.8
May	5.47	1.08	5.83	11.6	0.96	16.8
June	5.45	1.08	5.79	11.5	0.96	16.8
July	5.44	1.08	5.81	11.5	0.94	16.7
Aug.	5.41	1.07	5.72	11.5	0.93	16.8
Sept.	5.47	1.07	5.82	11.4	0.94	16.8
Oct.	5.37	1.07	5.74	11.5	0.94	16.7
Nov.	5.37	1.07	5.73	11.4	0.95	16.7
Dec.	5.37	1.06	5.77	11.4	0.93	16.7

	Ruska			la Cour		
	H γ/mm	D '/mm	Z γ/mm	H γ/mm	D '/mm	Z γ/mm
1969						
Jan.	5.36	1.06	5.78	11.4	0.93	16.7
Feb.	5.41	1.07	5.85	11.4	0.94	16.7
Mar.	5.46	1.07	5.90	11.5	0.94	16.8

Absolute observations and baseline values

Absolute determinations of the magnetic components were made at least once each week.

Baseline values, as in past years, were adopted by employing French curves to determine the best fit to the observed values.

The r.m.s. differences of the observed minus the adopted baseline values were:

- for declination ±0.3'
- for horizoantal component ±1.3γ
- for vertical component ±2.5γ

Notes on the tables

Greenwich Mean Time (U.T.) is used throughout.

The mean hourly values of H, D and Z were scaled manually and transferred to punch cards. The tables were subsequently prepared using a CDC 3100 computer; the output being compatible with offset printing techniques.

Table 46 lists the three-hour range indices in D, H and Z, along with the K Indices which were supplied regularly to the International Association of Geomagnetism and Aeronomy for publication.

Copies of K Indices were also forwarded to the National Research Council of Canada and to Cornell Aeronautical Laboratory of Buffalo, N.Y.

The magnetograms were inspected each month for occurrences of magnetic phenomena and these results reported to the I.A.G.A.

Annual means

Year	D West		H	Z	X*	Y*	I* North		F*
	°	'	γ	γ	γ	γ	°	'	γ
1955.5	7	16.4	15561	56194	15436	-1970	74	31.1	58308
1956.5		16.8	601	218	475	-1977		29.4	343
1957.5		19.1	642	203	515	-1992		26.8	339
1958.5		19.7	686	196	558	-2001		24.2	344
1959.5		18.8	739	207	611	-2004		21.2	369
1960.5		19.7	797	205	668	-2015		18.1	383
1961.5		19.7	864	177	734	-2024		13.8	374
1962.5		20.6	929	147	798	-2036		09.7	363
1963.5		23.0	990	121	857	-2055		05.8	354
1964.5		27.9	16040	083	904	-2084		02.4	331
1965.5		30.5	089	049	951	-2102	73	59.0	313
1966.5		33.4	152	026	16012	-2124		55.1	308
1967.5		35.9	216	011	074	-2144		51.2	311
1968.5		38.5	287	55987	142	-2166		46.8	308

*X, Y, I, F are derived from the annual means of D, H and Z.

The I values for 1965.5 and 1966.5 and should be corrected to the values listed in previous yearbooks were in error, shown in this table.

HORIZONTAL INTENSITY

TABLE 1 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

JANUARY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	716	691	688	702	686	687	663	680	696	702	709	705	729	733	722	702	711	714	718	723	722	729	734	734	708
2	C	735	738	734	724	740	741	729	697	685	624	553	614	708	697	685	685	691	718	730	727	718	734	728	729	703
3		730	729	722	723	720	719	723	728	730	734	730	732	734	729	718	711	711	718	724	734	735	740	739	733	727
4	Q	741	742	741	741	744	745	745	746	744	740	739	739	734	731	722	718	713	718	723	729	750	745	739	739	736
5		743	744	745	743	734	733	735	738	744	747	746	745	747	739	717	718	729	740	744	750	756	761	740	750	741
6	D	754	750	738	740	739	738	735	738	738	744	744	744	733	718	691	690	696	721	727	734	735	750	749	749	733
7		744	744	739	739	748	744	744	743	744	744	744	739	739	732	721	706	706	719	733	739	750	755	748	750	738
8	Q	750	754	755	754	750	749	745	748	744	748	744	745	748	738	724	705	701	721	729	737	746	756	760	760	742
9	Q	760	760	760	758	754	754	754	755	757	759	756	755	753	743	727	714	704	707	727	743	755	765	766	765	748
10	Q	760	764	761	759	754	758	753	750	754	753	754	754	749	743	738	727	715	716	728	737	748	759	759	757	748
11		757	758	758	760	760	755	754	754	755	754	754	754	750	758	743	738	742	728	732	744	754	749	760	763	751
12		758	754	754	749	749	738	738	735	739	743	742	739	737	739	733	716	732	743	727	732	733	737	738	739	739
13		741	747	748	747	742	741	734	732	736	739	741	742	740	738	742	736	736	732	742	738	746	739	742	749	740
14		748	738	742	742	732	735	738	732	731	736	736	738	738	736	724	715	716	731	742	737	741	748	742	743	736
15		749	747	744	748	746	743	742	738	743	743	743	745	743	744	736	726	722	735	738	743	737	737	725	742	740
16		737	738	742	742	741	742	739	738	739	743	743	746	743	743	742	743	749	727	733	760	753	737	734	742	741
17		748	749	748	743	739	747	742	731	726	762	764	760	755	748	738	725	726	735	738	733	742	737	753	754	743
18		739	733	752	749	753	743	731	742	749	753	751	747	748	754	748	737	731	727	732	738	744	753	759	761	745
19		763	760	759	754	754	757	745	742	742	747	751	753	760	754	742	726	694	698	711	731	732	743	740	733	741
20	D	726	736	737	749	757	753	753	758	754	753	742	759	761	742	722	725	721	721	732	737	747	759	762	759	744
21		759	758	758	756	753	752	748	739	743	743	751	756	754	748	738	731	718	722	733	743	752	754	758	760	747
22		754	760	760	755	758	755	761	758	760	759	755	760	760	754	734	710	700	706	722	737	744	750	759	760	747
23		758	750	747	753	754	754	754	754	760	760	761	761	760	752	738	722	715	717	727	738	738	744	760	760	747
24		762	756	760	764	761	761	760	761	763	754	765	765	755	756	749	727	711	715	716	721	742	748	755	760	749
25	Q	760	756	760	761	760	759	760	764	765	768	769	767	769	761	746	737	731	728	728	737	747	754	765	765	755
26		761	754	755	761	759	758	759	759	752	761	765	765	764	760	744	700	720	723	733	743	754	760	763	757	751
27		760	760	755	754	753	750	754	752	760	763	763	764	764	761	754	746	732	737	736	738	744	747	738	733	751
28		732	720	728	736	742	748	749	753	755	755	758	755	754	750	746	738	728	722	732	723	738	746	750	738	741
29	D	733	728	724	722	710	731	733	742	749	750	752	755	754	749	739	732	728	733	727	738	749	748	749	744	738
30		738	743	733	733	730	735	743	749	753	754	750	751	749	742	731	728	722	727	743	749	753	758	765	769	744
31		763	756	745	745	743	751	754	748	748	751	749	753	748	741	727	725	732	736	741	747	754	759	764	763	748
MEAN A		748	746	745	745	744	744	742	742	744	745	743	745	748	743	732	721	719	724	731	737	744	748	750	750	741
MEAN Q		754	755	755	755	752	753	751	753	753	753	752	752	751	743	731	720	713	718	727	736	749	756	758	757	746
MEAN D		733	729	724	727	727	730	723	723	724	715	700	715	737	728	712	707	710	721	727	732	734	744	744	743	725

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

DECLINATION

TABLE 2 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

JANUARY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	44.3	39.1	34.9	35.9	33.8	34.6	41.2	36.4	33.0	34.4	38.0	42.1	39.1	39.0	39.9	43.3	45.2	44.4	44.4	43.3	41.4	39.5	41.6	39.1	39.5
2	D	37.0	47.0	37.0	37.6	40.2	38.0	30.8	20.8	38.7	41.2	61.1	54.4	37.9	33.8	43.2	46.4	45.5	48.8	46.4	43.9	43.0	43.1	41.0	39.9	41.1
3		37.7	36.7	37.9	37.5	35.6	33.5	32.8	33.3	36.6	36.8	36.1	35.8	35.6	34.9	36.8	39.5	40.0	40.4	40.2	40.0	38.0	39.3	40.0	39.5	37.3
4	Q	38.9	38.5	37.8	37.0	37.0	36.9	36.7	36.6	36.5	36.7	38.9	36.9	35.7	35.9	36.4	37.6	39.0	41.2	42.6	43.1	42.1	42.3	42.0	38.8	38.5
5		39.1	36.9	36.8	37.8	35.9	35.9	35.7	34.5	33.8	34.6	35.7	34.6	35.7	34.3	34.5	42.1	44.3	43.7	42.8	41.2	40.3	41.0	41.6	39.7	38.0
6	D	37.6	37.8	39.1	39.7	37.7	36.7	35.7	35.1	34.5	36.4	35.5	34.6	34.5	32.7	36.4	39.9	45.2	47.3	46.9	44.2	41.0	39.1	39.7	37.8	38.5
7		37.8	37.8	36.7	37.6	38.9	37.0	36.6	36.5	36.7	35.3	34.6	34.7	34.4	34.4	36.0	37.9	42.1	44.0	45.1	42.8	39.9	38.8	38.9	38.1	38.0
8	Q	36.7	36.4	35.8	36.5	36.3	36.6	36.6	36.2	36.6	36.5	36.7	35.6	33.4	32.3	32.0	34.6	37.7	42.3	43.1	42.2	40.8	39.0	38.4	37.6	37.1
9	Q	36.6	36.5	36.4	36.5	36.6	36.6	37.5	36.9	36.6	36.6	35.9	35.6	34.5	32.6	31.4	35.4	37.9	42.1	43.1	42.9	41.6	40.2	38.9	38.7	37.4
10	Q	36.7	36.5	36.6	36.0	35.8	35.6	36.0	34.9	35.8	35.6	34.8	33.4	32.3	33.6	33.6	36.9	40.9	43.1	43.0	42.3	40.9	39.8	39.1	38.1	37.1
11		36.8	36.5	35.2	35.7	35.9	35.9	35.9	35.7	35.8	35.9	36.3	36.3	33.6	28.4	29.0	33.8	38.8	38.9	44.0	43.3	43.0	43.6	42.7	41.1	37.2
12		38.7	36.6	36.6	36.9	37.7	36.5	33.6	33.1	32.3	33.4	34.4	34.4	35.4	34.5	35.6	40.9	47.4	45.4	44.0	45.3	44.2	43.0	41.0	39.7	38.4
13		37.7	37.7	37.4	36.5	35.9	35.2	35.3	35.3	32.7	32.4	37.7	35.6	33.5	33.9	34.7	37.7	38.5	39.8	40.7	39.8	40.9	42.7	43.8	42.9	37.4
14		41.0	39.9	35.7	36.7	38.0	36.3	36.8	33.7	33.6	32.3	34.2	35.8	34.4	34.5	36.4	38.9	40.2	43.0	43.9	44.2	43.0	40.5	42.0	40.9	38.2
15		38.7	37.7	36.5	35.8	36.5	35.7	36.6	35.4	34.7	33.4	34.4	34.5	35.6	36.4	39.5	42.0	43.3	42.7	41.8	40.8	42.0	42.0	42.6	38.0	38.0
16		41.0	37.5	36.4	36.6	35.9	35.8	34.8	34.1	33.7	35.2	35.7	36.9	35.6	34.6	36.4	36.7	38.8	40.9	44.8	40.8	39.8	40.7	40.7	38.8	37.6
17		36.9	36.5	36.5	35.6	31.3	35.6	34.8	36.8	42.0	31.5	33.6	35.4	37.7	33.1	31.5	35.6	37.7	40.2	41.9	40.5	41.9	40.8	39.6	39.4	36.9
18		38.8	33.7	36.3	34.9	36.6	35.6	35.6	34.5	34.4	35.6	35.7	36.4	38.5	35.8	35.6	36.6	37.6	39.2	40.9	41.0	40.6	39.6	38.5	37.7	37.1
19		36.7	36.6	36.7	36.8	35.7	34.5	36.4	35.0	34.3	34.3	34.5	35.7	34.3	32.3	33.4	36.0	38.5	42.8	44.0	42.0	40.9	40.2	36.4	38.2	36.9
20	D	33.4	34.5	32.6	38.7	36.9	36.6	37.5	40.0	34.7	32.4	37.5	38.8	35.8	34.7	38.9	37.9	38.1	40.9	41.6	42.0	40.9	39.0	37.7	37.6	37.4
21		36.8	36.7	36.7	36.7	35.7	34.5	34.7	36.5	36.5	37.5	36.6	35.7	36.5	34.3	34.9	35.0	38.8	39.1	40.8	38.9	38.8	38.9	38.4	37.7	36.9
22		37.3	36.7	36.7	36.6	33.5	37.7	39.5	36.7	35.9	35.7	36.7	36.5	34.6	32.7	32.2	34.7	38.9	41.1	41.6	42.1	41.2	40.0	38.9	38.0	37.3
23		37.0	36.7	34.6	35.5	36.5	37.6	41.0	39.2	37.0	35.7	35.7	35.9	34.6	33.2	32.4	34.6	37.1	41.2	42.4	42.2	41.0	38.1	38.0	37.7	37.3
24		36.6	36.1	35.7	36.7	36.8	37.0	37.0	38.0	36.7	38.9	35.7	35.5	39.9	35.8	32.4	34.6	38.0	41.0	43.2	43.1	42.1	41.2	37.8	36.9	37.8
25	Q	37.5	36.0	34.6	36.7	36.8	36.7	37.6	37.7	36.9	36.7	36.7	36.9	35.9	33.4	32.9	35.3	35.7	37.7	39.7	40.3	40.0	39.9	38.9	37.7	37.0
26		37.0	36.7	36.7	35.0	36.7	36.9	37.4	37.9	39.9	37.8	35.7	35.5	36.8	36.7	32.4	33.8	40.8	41.1	40.1	41.2	41.3	39.9	38.9	38.4	37.7
27		37.8	37.4	37.9	37.8	36.7	36.7	37.7	38.9	37.8	35.7	35.2	35.7	35.4	35.7	32.8	34.3	36.7	38.9	39.9	42.0	41.0	40.0	41.0	41.3	37.7
28		38.9	38.9	36.7	35.8	36.3	36.7	37.7	37.3	36.9	36.9	36.6	36.6	36.6	35.7	35.7	34.9	37.8	40.1	40.9	42.1	41.9	43.1	42.4	41.2	38.2
29	D	40.6	40.9	36.6	34.3	41.0	33.6	35.5	36.0	36.6	36.7	36.7	37.0	34.8	33.7	33.4	34.8	36.9	39.2	42.1	44.2	42.1	42.2	42.0	41.3	38.0
30		39.8	40.4	37.8	38.0	35.8	34.6	34.4	35.7	36.8	36.7	35.7	36.6	36.6	35.7	34.6	35.7	37.9	40.8	42.3	42.1	41.0	40.3	39.9	39.1	37.8
31		39.4	39.8	36.5	36.9	33.4	37.8	37.0	35.7	36.0	32.5	33.5	34.5	33.8	34.3	33.7	37.6	39.2	40.9	40.7	39.9	39.8	39.2	38.9	38.8	37.1
MEAN A		38.1	37.3	36.4	36.7	36.4	36.1	36.3	35.6	35.9	35.5	36.6	36.6	35.5	34.2	34.7	37.2	39.8	41.7	42.6	42.1	41.1	40.5	40.0	39.2	37.8
MEAN Q		37.3	36.8	36.2	36.6	36.5	36.5	36.9	36.5	36.5	36.4	36.6	35.7	34.3	33.6	33.3	36.0	38.2	41.3	42.3	42.2	41.1	40.2	39.4	38.2	37.4
MEAN D		38.6	37.9	36.0	37.2	37.9	35.9	36.1	33.7	35.5	36.2	41.8	41.4	36.4	34.8	38.4	40.5	42.2	44.1	44.3	43.5	41.7	40.6	40.4	39.1	38.9

VERTICAL INTENSITY

TABLE 3 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

JANUARY 1968

DAY	HR WT	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1	D	570	584	568	548	543	531	479	461	490	497	501	445	459	479	492	496	503	505	509	513	510	511	518	517	510
2	D	514	510	509	510	498	488	482	412	322	244	235	293	468	485	489	502	515	526	520	517	526	534	531	532	465
3		532	527	531	524	519	519	514	505	508	509	509	509	509	509	509	512	514	519	518	519	514	509	510	512	515
4	Q	514	511	510	510	510	510	509	507	504	504	501	500	504	504	503	504	504	510	513	513	515	510	513	527	509
5		519	513	512	515	519	516	517	512	507	506	505	504	506	504	503	506	504	505	508	508	506	503	506	513	509
6	D	516	521	543	533	518	516	513	512	506	504	506	504	505	506	507	516	516	511	511	512	512	516	513	512	514
7		513	512	512	516	519	516	511	511	509	505	504	503	504	500	499	499	504	511	511	511	510	505	505	505	508
8	Q	507	506	506	506	505	505	506	505	504	504	502	505	506	501	499	497	501	505	506	508	508	506	505	502	504
9	Q	502	501	501	501	500	501	501	501	500	500	500	499	500	501	500	500	502	504	508	508	505	501	500	500	501
10	Q	502	502	501	502	502	501	502	502	501	500	500	500	500	501	496	495	496	497	500	501	501	501	501	502	500
11		501	501	501	501	501	500	501	501	500	499	498	498	501	501	490	484	484	485	494	498	500	501	509	510	498
12		511	507	508	513	518	513	513	510	509	501	501	501	501	493	492	500	501	503	510	513	507	511	513	506	500
13		513	508	506	506	506	502	507	506	498	498	485	483	491	492	486	490	491	497	501	501	503	502	507	514	500
14		515	520	519	515	515	519	514	510	508	504	503	502	503	502	496	501	504	503	506	507	509	508	507	508	508
15		512	512	513	508	508	507	503	503	502	498	500	500	499	494	487	481	484	489	497	501	499	506	514	524	502
16		525	519	513	509	509	508	508	504	503	503	502	499	501	500	497	493	493	493	499	504	504	503	504	504	504
17		505	503	503	503	503	503	499	486	465	481	490	491	492	494	491	488	495	499	503	504	505	503	504	505	496
18		510	515	511	508	506	502	501	502	501	498	495	495	501	501	498	496	496	496	493	497	499	501	499	498	501
19		499	499	499	499	497	493	492	488	487	491	493	498	500	499	494	492	487	496	500	508	504	505	515	516	498
20	D	521	522	514	493	493	497	496	483	483	488	478	487	489	494	494	497	498	500	504	508	504	500	499	499	497
21		499	499	499	499	498	493	483	491	488	492	497	495	499	499	499	496	499	504	504	505	505	500	499	499	497
22		500	500	499	498	493	496	493	493	497	497	494	494	498	498	494	492	493	495	499	500	501	503	503	499	497
23		499	500	500	500	500	498	482	485	490	495	498	498	500	500	495	494	494	498	500	501	504	503	501	500	497
24		499	499	500	498	497	497	497	495	489	492	490	492	493	494	494	491	493	494	500	506	511	509	506	505	498
25	Q	500	500	499	498	498	497	496	496	496	496	494	494	494	493	488	483	483	486	493	499	500	499	499	498	495
26		496	497	498	494	494	494	494	494	490	490	493	493	494	494	489	489	495	499	494	493	495	497	496	495	494
27		496	499	499	503	500	498	492	487	487	493	495	494	495	495	493	489	493	499	501	508	507	507	511	515	498
28		518	523	523	517	511	507	505	505	504	502	501	500	500	500	494	488	489	494	500	506	511	513	513	515	506
29	D	516	528	536	533	518	517	510	507	505	502	502	502	502	501	497	495	497	501	506	511	512	512	517	523	510
30		523	524	528	527	514	495	493	506	507	506	502	502	503	503	500	499	495	499	500	501	501	502	502	501	506
31		501	506	511	513	512	508	505	502	497	490	500	501	501	501	495	499	502	501	501	502	499	499	501	501	502
MEAN A		511	512	512	510	507	505	500	496	492	490	489	490	497	498	496	495	498	500	503	506	506	506	507	509	501
MEAN Q		505	504	503	503	503	503	503	502	501	501	499	500	501	500	497	496	497	500	504	506	506	503	504	506	502
MEAN D		527	533	534	523	514	510	496	475	461	447	444	446	485	493	497	502	506	508	509	511	512	515	516	517	499

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 4 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

FEBRUARY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		757	761	762	760	761	756	752	751	756	757	761	761	762	757	751	744	746	743	744	737	752	762	764	754	755
2		755	753	754	752	754	754	754	755	752	744	751	748	742	730	719	725	723	706	738	741	749	745	744	742	743
3		735	749	751	747	747	744	743	742	743	745	744	745	746	741	714	695	681	699	718	723	735	743	753	752	735
4		749	743	734	740	727	731	723	734	729	708	727	746	733	722	714	705	702	712	717	724	740	746	752	752	730
5		754	753	753	753	752	753	749	749	750	752	751	752	753	748	737	732	723	719	718	724	733	750	752	751	744
6	Q	749	751	749	750	752	751	751	752	753	754	756	756	756	752	744	735	727	720	722	727	737	748	756	757	746
7	Q	759	759	758	759	759	759	760	760	761	762	762	761	763	760	752	743	731	731	737	748	761	766	778	759	756
8		772	761	743	755	749	749	754	755	756	757	758	755	751	750	746	740	735	730	727	724	741	747	744	750	748
9		747	743	735	725	732	720	726	721	729	729	743	751	740	731	730	716	709	711	721	735	739	747	736	736	731
10	D	740	731	726	736	741	734	735	737	741	726	745	761	754	745	744	742	734	689	714	695	720	747	743	729	734
11	D	746	736	707	700	676	691	646	625	595	522	636	652	674	710	701	686	694	693	706	717	728	733	729	730	685
12		734	729	725	726	729	726	720	727	737	735	732	728	740	738	735	734	728	721	727	736	738	744	748	749	733
13		749	751	750	748	742	736	730	733	733	737	747	753	741	753	749	733	707	730	742	746	744	748	750	753	742
14	Q	754	753	752	751	752	753	754	756	758	759	758	757	755	756	753	747	746	747	749	755	760	761	756	762	754
15	D	763	763	761	763	759	757	761	764	764	754	732	765	764	728	718	717	702	683	710	736	749	750	747	748	744
16		753	754	753	754	759	755	758	761	754	749	742	749	757	742	725	707	718	715	720	742	753	761	763	755	746
17		742	754	759	757	754	754	764	755	749	749	756	769	747	752	734	725	724	727	736	745	754	764	740	749	748
18		748	754	759	758	757	754	749	741	747	727	757	740	745	729	738	725	708	695	692	725	739	745	750	752	739
19		728	735	725	734	748	745	743	688	752	754	754	755	750	739	726	716	716	719	724	735	744	752	754	759	737
20	D	760	755	757	754	753	754	761	745	728	724	752	755	746	739	729	732	715	719	714	711	719	726	748	745	739
21		730	750	754	749	745	738	738	748	749	748	747	746	744	738	711	700	700	705	718	731	751	747	753	759	737
22		755	757	755	755	759	765	757	755	754	753	753	749	756	748	732	715	710	718	735	745	759	763	762	764	749
23		764	764	764	763	762	763	761	759	761	763	763	762	759	752	743	732	721	722	734	747	751	753	757	763	753
24		764	764	761	757	757	754	761	759	757	762	764	759	757	749	736	726	722	719	726	741	754	760	764	765	752
25	Q	765	764	764	762	762	764	768	762	760	764	764	764	763	755	747	734	727	721	728	738	754	759	766	769	755
26	Q	769	764	764	764	764	766	766	769	770	770	770	769	768	760	748	732	722	724	733	749	763	769	769	763	759
27		764	768	769	767	764	769	770	771	771	771	770	770	769	760	745	736	733	731	739	750	759	771	764	764	760
28	D	749	754	752	754	755	755	759	759	764	770	774	770	739	721	719	734	759	739	739	727	731	723	748	753	748
29		744	754	728	717	727	728	734	733	739	744	735	740	735	732	729	720	708	722	734	728	739	750	755	750	734
MEAN A		752	753	749	749	748	747	747	744	745	741	748	751	749	743	733	725	720	718	726	734	745	751	753	753	743
MEAN Q		759	758	757	757	758	758	760	760	760	762	762	762	761	757	749	738	731	728	734	743	755	761	765	762	754
MEAN D		751	748	741	741	737	738	733	726	718	699	728	741	735	729	722	722	721	705	716	717	730	736	743	741	730

DECLINATION

TABLE 5 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

FEBRUARY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TO 1	TO 2	TO 3	TO 4	TC 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1		37.9	37.8	37.6	37.5	36.7	35.9	40.9	35.8	35.8	34.6	35.7	35.8	36.0	34.8	34.6	34.7	38.0	39.7	43.1	43.6	41.5	41.2	40.3	41.0	37.9	
2		37.9	36.8	36.5	35.8	36.7	37.1	36.4	36.0	36.8	39.7	32.4	33.6	34.7	34.7	33.2	38.1	39.0	42.4	45.3	44.9	45.6	43.5	43.9	40.9	38.4	
3		41.2	36.7	36.2	36.9	37.1	36.4	38.2	40.1	35.8	35.0	35.0	36.8	36.0	34.6	34.9	36.0	37.7	42.1	42.2	42.6	42.8	42.0	39.7	41.1	38.2	
4		39.4	38.1	37.5	35.5	33.6	31.0	30.4	28.6	27.5	29.7	32.2	33.8	34.4	35.7	33.5	34.6	36.7	39.5	41.5	40.7	39.9	38.5	38.8	38.8	35.4	
5		38.5	38.2	37.9	37.6	37.5	36.9	36.8	37.0	37.1	37.0	35.9	36.9	36.9	35.5	34.7	35.0	35.5	38.5	41.7	43.2	42.9	41.2	38.9	39.9	38.0	
6	Q	38.5	37.6	36.5	36.7	36.5	36.7	36.9	37.3	37.5	37.5	36.9	37.4	35.5	33.4	32.4	33.1	34.4	36.6	39.2	41.0	40.8	40.1	39.0	38.1	37.1	
7	Q	37.8	37.5	37.3	37.0	36.9	36.7	36.5	36.5	36.6	36.4	36.3	36.2	35.9	34.5	32.4	31.7	34.5	37.0	41.4	42.4	42.1	41.0	41.7	39.2	37.3	
8		38.9	38.9	37.8	36.8	36.3	35.7	36.3	36.2	36.8	37.6	36.7	36.9	37.4	36.1	34.7	34.6	34.2	37.0	39.9	41.0	40.9	41.0	40.3	41.6	37.6	
9		42.3	41.9	37.8	33.1	31.0	33.5	36.3	33.3	30.6	34.2	33.9	36.3	37.7	39.5	35.7	33.5	37.1	40.0	42.2	43.5	43.1	43.5	43.2	45.0	37.8	
10	D	42.6	37.3	36.6	35.9	34.8	34.0	33.4	35.8	36.0	39.4	38.3	34.0	35.7	36.6	35.4	34.5	31.9	38.2	48.1	41.0	43.5	40.3	42.2	46.2	38.0	
11	D	48.2	38.2	32.3	27.6	23.8	30.1	35.6	26.0	28.4	35.6	53.0	56.7	50.4	48.6	47.5	47.6	46.5	45.3	45.5	43.8	42.8	43.0	41.2	42.6	40.9	
12		43.8	37.6	40.5	37.4	34.7	36.1	44.0	35.3	36.2	36.3	35.2	36.9	38.0	37.0	36.4	37.8	39.0	43.4	44.9	43.1	41.1	40.2	39.5	38.5	38.9	
13		37.9	38.0	37.9	38.1	38.5	35.1	43.7	33.3	40.4	36.7	36.2	36.4	45.4	46.0	35.8	37.0	40.0	43.7	41.5	39.9	38.5	37.7	36.9	36.8	38.8	
14	Q	37.3	37.5	37.6	37.5	37.5	37.5	37.4	37.0	36.8	36.2	35.8	35.4	35.2	34.7	34.3	34.7	36.7	39.1	40.5	40.2	39.2	37.7	37.9	37.8	37.1	
15	D	36.8	36.6	36.7	36.8	37.5	36.6	36.8	37.0	34.8	34.3	45.5	36.2	33.6	38.5	41.9	41.2	42.3	41.6	43.6	43.0	40.9	39.5	38.1	36.6	38.6	
16		36.6	36.6	36.0	36.5	35.3	37.8	40.4	39.7	36.4	36.7	40.6	39.0	37.6	33.4	35.6	35.3	38.7	42.8	45.6	44.8	42.7	40.2	38.7	38.2	38.5	
17		36.1	36.6	36.6	36.5	36.2	36.1	42.9	39.3	39.4	40.0	38.4	36.2	37.6	34.4	34.1	36.1	38.9	43.3	44.3	44.9	42.9	42.7	39.9	37.9	38.8	
18		35.3	35.6	36.8	37.5	37.7	37.6	36.0	35.9	35.1	39.9	37.4	37.1	37.2	41.4	40.7	37.5	40.9	44.8	47.0	45.7	42.6	41.2	38.4	37.4	39.0	
19		36.3	33.2	32.3	33.7	34.7	36.7	39.8	39.9	38.8	36.8	36.8	36.3	35.5	34.1	33.5	34.1	35.5	38.1	39.7	40.6	40.3	39.5	38.8	37.8	36.8	
20	D	37.5	33.5	35.8	37.9	37.6	37.2	39.8	39.5	35.2	38.0	37.4	39.3	44.4	42.6	39.5	38.4	40.1	41.8	42.7	43.7	42.9	40.2	35.8	38.1	39.1	
21		33.7	32.2	35.7	36.8	34.8	34.8	41.9	40.1	35.7	39.7	36.1	35.6	35.7	33.6	33.4	36.9	39.6	41.9	44.2	43.0	45.0	45.0	41.5	40.5	38.2	
22		38.8	37.1	36.7	35.5	35.8	38.2	38.0	37.3	36.2	36.4	38.3	37.1	35.6	33.0	32.0	32.7	37.6	40.1	42.4	42.5	40.8	39.4	39.1	39.0	37.5	
23		38.4	37.9	37.6	37.4	35.9	35.9	38.6	37.6	36.3	35.9	35.6	35.5	34.9	33.8	33.0	32.8	36.2	39.6	40.3	40.8	40.8	40.5	39.7	38.8	37.2	
24		38.4	37.8	37.5	36.5	35.5	37.6	37.8	35.6	35.7	35.6	34.3	35.6	34.5	33.3	32.1	35.2	38.4	42.2	44.5	44.0	41.9	39.8	39.6	38.9	37.6	
25	Q	38.6	37.8	36.6	37.6	37.6	37.6	36.6	35.5	35.8	35.6	35.5	35.6	34.8	33.5	32.2	33.1	36.9	40.8	44.1	45.1	44.0	41.9	39.9	38.9	37.7	
26	Q	37.9	37.7	37.6	36.7	36.2	36.5	36.7	36.7	36.5	36.1	35.5	35.1	33.4	31.2	30.0	30.0	33.5	39.7	44.2	45.1	44.0	42.2	42.2	41.5	37.3	
27		38.6	37.6	37.4	36.7	36.5	37.6	37.7	37.5	36.8	35.7	35.5	34.7	33.3	31.2	29.0	32.5	35.6	40.7	44.1	46.9	50.6	49.9	49.3	51.4	39.0	
28	D	46.1	39.2	37.6	35.6	35.3	36.5	37.4	36.7	36.4	35.5	34.4	31.2	36.5	45.0	43.5	41.7	41.1	42.9	48.3	50.8	48.3	44.0	46.1	44.0	40.6	
29		41.8	39.7	32.0	33.3	31.3	34.4	32.3	34.3	34.3	34.3	35.5	36.4	36.6	34.5	34.1	33.4	34.0	38.8	40.5	42.7	43.0	42.7	39.9	39.9	39.9	36.9
MEAN A		39.1	37.3	36.7	36.2	35.5	36.0	37.8	36.2	35.7	36.5	36.9	36.7	36.8	36.4	35.2	35.7	37.8	40.8	43.3	43.3	42.6	41.3	40.4	40.2	38.1	
MEAN C		38.0	37.6	37.1	37.1	36.9	37.0	36.8	36.6	36.6	36.3	36.0	35.9	35.0	33.5	32.3	32.5	35.2	38.7	41.9	42.7	42.0	40.6	40.2	39.1	37.3	
MEAN D		42.2	37.0	35.8	34.8	33.8	34.9	36.6	35.0	34.2	36.5	41.7	39.5	40.1	42.3	41.6	40.7	40.4	42.0	45.6	44.5	43.7	41.4	40.7	41.5	39.4	

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

VERTICAL INTENSITY

TABLE 6 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

FEBRUARY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		502	501	501	501	499	500	493	501	502	501	501	498	499	497	498	496	498	500	502	506	510	509	509	508	501
2		515	512	509	508	506	503	502	501	495	468	486	496	496	496	491	487	489	498	507	511	518	522	539	526	503
3		529	519	513	510	508	506	502	489	487	497	496	498	506	504	502	513	519	517	514	509	509	513	520	515	508
4		515	518	524	518	507	496	505	494	497	462	440	461	498	502	501	501	507	507	509	512	511	509	509	507	500
5		506	506	505	506	506	505	505	505	503	503	503	503	503	503	504	503	500	498	501	507	510	514	514	510	505
6	Q	508	508	507	507	506	505	505	504	503	503	503	502	503	501	500	496	493	495	497	501	508	509	507	503	503
7	Q	503	502	503	502	502	502	502	501	502	500	500	500	502	500	501	503	503	500	499	501	504	503	506	500	502
8		602	504	505	512	508	508	505	502	501	495	495	495	496	496	492	488	492	498	502	510	510	516	520	515	503
9		520	579	516	515	495	504	491	464	472	449	463	466	480	489	493	497	499	500	504	508	512	519	525	529	500
10	D	529	531	531	521	515	509	508	501	493	477	485	488	491	499	499	500	491	494	541	551	520	518	565	618	516
11	D	582	649	609	546	508	524	498	464	435	335	325	354	447	515	516	527	532	539	532	531	539	549	545	548	506
12		555	556	549	543	535	525	509	502	520	518	511	508	509	510	508	503	502	503	508	514	514	514	512	510	518
13		508	508	508	508	509	506	492	487	470	477	498	495	485	479	481	481	493	503	502	504	507	507	506	504	497
14	Q	505	504	505	505	504	504	503	503	503	502	502	502	501	499	497	496	496	495	496	501	502	502	502	502	501
15	D	500	499	499	498	498	498	499	497	493	492	469	464	475	479	484	476	487	498	526	522	516	512	511	510	496
16		508	508	506	504	498	496	491	486	496	498	490	482	481	485	487	486	487	496	509	514	513	508	506	507	498
17		508	508	505	503	502	498	486	486	486	491	497	487	486	488	482	480	479	485	490	497	503	515	514	515	495
18		513	508	504	502	502	501	498	483	440	439	447	459	476	483	490	488	492	496	507	510	514	516	511	513	491
19		515	517	515	507	499	498	495	491	497	500	502	502	502	502	500	493	487	485	491	497	500	501	503	503	500
20	D	502	502	500	502	501	498	490	445	426	430	472	474	470	468	480	489	496	500	505	514	521	531	531	526	491
21		526	516	498	492	492	496	484	484	484	454	458	480	493	491	491	494	492	496	499	511	518	527	522	515	496
22		508	503	501	500	496	483	485	495	457	496	496	492	497	496	495	495	499	500	501	503	503	501	500	499	498
23		498	497	497	497	496	492	492	497	498	498	498	498	498	498	498	496	493	498	499	502	500	500	502	502	498
24		499	498	498	498	497	494	483	489	492	494	493	493	493	493	492	492	487	489	493	498	503	503	501	499	495
25	Q	498	497	498	498	497	495	492	488	493	493	495	495	495	495	495	491	481	480	492	499	502	500	499	498	494
26	Q	496	495	496	496	493	495	494	494	494	494	492	493	497	498	494	491	482	482	491	498	503	503	503	505	495
27		504	498	496	495	494	492	491	491	492	491	492	492	492	495	493	492	495	488	489	492	503	514	521	528	499
28	D	557	550	543	521	510	503	502	499	498	498	492	489	484	475	475	472	463	463	475	496	527	548	568	544	506
29		533	573	538	533	529	522	516	494	486	498	489	491	503	515	514	507	508	510	516	515	510	507	509	510	514
MEAN A		515	520	513	508	504	502	497	491	488	481	482	485	492	495	495	494	494	497	503	508	511	514	517	516	501
MEAN Q		502	501	502	502	501	500	499	498	499	499	498	498	499	498	497	495	491	491	495	500	504	503	503	501	499
MEAN D		534	546	536	518	506	506	499	481	469	446	449	454	474	487	491	493	494	499	516	523	525	532	544	549	503

HORIZONTAL INTENSITY

TABLE 7 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

MARCH 1968

DAY	HOUR UT	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1		755	749	754	755	755	755	751	750	750	749	744	744	746	739	723	684	690	717	728	729	734	744	751	756	740
2		758	760	762	743	743	751	752	755	749	744	749	755	750	742	733	728	724	728	739	754	760	746	756	757	747
3		756	757	757	756	757	755	756	749	755	750	750	750	756	755	748	755	729	719	727	740	761	755	756	749	750
4		755	755	753	751	746	749	751	759	751	739	740	746	750	744	734	719	716	722	739	749	745	755	761	762	745
5		752	751	754	762	766	750	755	755	751	747	745	744	745	719	730	724	723	723	735	751	755	766	761	739	746
6		744	755	757	756	756	755	754	755	755	752	755	759	756	747	734	724	723	729	739	754	756	760	760	758	750
7	Q	762	762	767	765	767	762	761	757	757	762	762	763	761	756	751	746	745	750	757	765	768	774	768	768	761
8	Q	770	765	768	769	767	766	764	764	764	765	763	761	757	748	740	729	724	730	745	757	768	767	765	768	758
9	Q	771	771	770	768	767	767	767	768	767	768	768	767	763	757	751	744	740	741	747	757	765	767	773	777	763
10		776	773	774	777	773	755	757	767	765	766	767	765	761	753	735	728	741	731	734	735	751	761	754	765	757
11		767	771	768	764	761	744	742	757	761	761	768	770	767	762	753	741	735	742	752	762	763	765	762	771	759
12		774	774	774	773	771	769	772	774	778	781	779	778	785	774	763	758	745	736	746	748	757	753	752	763	766
13	Q	763	760	760	762	774	768	771	771	774	775	778	778	776	770	759	751	745	746	757	766	774	779	781	779	767
14	D	774	773	764	764	769	768	774	775	779	776	784	785	781	769	750	749	752	746	757	764	766	775	742	737	765
15	D	758	758	765	772	763	747	721	735	745	757	762	763	752	746	757	744	726	726	711	731	743	751	764	763	748
16	D	763	770	759	753	740	769	763	749	752	771	775	766	737	746	758	732	719	720	734	744	770	764	759	752	753
17		759	770	767	764	768	760	763	764	764	774	773	774	769	763	757	742	736	733	741	751	758	769	769	770	761
18		773	775	770	770	765	759	766	768	774	779	776	775	774	764	747	733	726	731	758	768	776	780	780	778	765
19		779	776	776	774	777	776	776	769	776	781	776	779	786	781	766	753	737	726	736	755	764	772	780	780	769
20		778	776	763	786	770	774	775	776	776	776	776	754	781	775	755	744	737	737	747	754	766	782	767	772	766
21		777	778	771	774	779	781	777	776	775	777	777	777	771	759	743	738	741	743	738	754	765	774	780	780	767
22	Q	776	773	776	777	777	776	780	779	776	779	780	777	765	760	752	741	741	743	748	759	766	770	776	777	768
23		776	777	778	778	780	778	778	780	781	786	783	781	770	764	754	743	739	743	764	770	776	789	771	769	771
24	D	771	781	780	771	770	779	763	754	759	760	770	759	743	746	739	743	728	727	734	748	771	768	774	776	759
25		780	770	759	765	765	757	745	744	736	769	765	765	744	740	743	721	711	725	744	759	769	771	763	770	753
26		776	773	774	772	777	776	770	776	775	773	759	770	770	760	738	721	721	731	726	747	759	777	775	767	761
27		765	748	754	760	753	753	745	754	758	745	765	766	764	751	733	716	721	743	760	754	760	766	765	760	753
28		765	770	771	765	770	760	764	766	766	764	770	766	761	759	744	732	732	744	753	763	775	777	768	776	762
29		779	781	781	754	746	749	759	759	758	764	765	765	754	738	732	743	737	738	748	766	780	786	792	771	760
30	D	754	725	747	760	758	727	710	759	763	769	770	765	758	754	735	699	651	688	736	764	777	770	753	755	744
31		766	765	765	764	765	770	765	770	760	763	765	763	754	747	729	739	734	728	742	764	777	781	776	776	759
MEAN A		767	766	766	765	764	761	760	762	763	765	766	766	761	754	745	734	728	732	743	754	764	768	766	766	758
MEAN Q		768	766	768	768	770	768	769	768	767	770	770	769	764	758	750	742	739	742	751	761	768	771	773	774	763
MEAN D		764	761	763	764	760	758	746	754	760	767	772	768	754	752	748	733	715	722	734	750	765	766	758	757	754

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

DECLINATION

TABLE 8 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

MARCH 1968

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
UT	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	37.8	36.6	36.5	36.3	36.5	36.5	36.3	36.5	36.7	35.5	35.8	35.8	34.4	33.3	32.1	36.8	43.8	44.3	42.1	43.0	42.8	41.0	39.7	38.7	37.9
2	37.6	37.2	37.4	34.5	34.5	36.5	35.5	36.5	34.3	34.2	36.5	34.5	32.0	32.2	34.1	35.3	37.6	40.8	42.1	42.9	44.0	42.9	43.8	42.8	37.5
3	40.8	38.8	37.5	37.7	37.2	36.8	36.4	37.5	35.6	32.4	36.2	37.3	34.1	31.1	33.4	35.2	36.5	41.8	45.0	47.3	48.0	45.0	44.8	45.9	38.8
4	40.0	40.0	38.6	37.7	35.7	34.3	35.2	35.4	32.0	33.1	35.4	35.4	33.2	31.3	33.2	38.3	41.8	46.0	46.0	47.4	47.1	46.7	45.8	42.0	38.8
5	42.6	37.7	35.5	35.6	33.0	37.5	34.1	34.5	34.5	32.1	33.1	38.2	38.8	33.3	33.4	35.4	37.5	41.0	43.7	44.8	45.7	44.7	42.7	40.7	37.9
6	39.4	36.6	36.2	36.1	36.2	36.4	35.5	35.5	33.2	35.0	35.2	35.4	33.2	32.1	33.0	35.4	38.8	41.8	43.3	43.7	42.8	40.7	41.8	40.7	37.4
7	Q 38.6	38.0	37.5	38.3	36.5	36.6	36.1	37.5	38.6	34.8	35.1	34.3	33.0	32.2	32.4	35.4	37.6	41.8	42.8	42.5	40.9	40.8	40.7	39.6	37.6
8	Q 39.6	38.6	38.5	36.7	37.0	36.4	36.2	36.5	36.3	36.3	36.3	35.8	34.3	32.1	32.1	33.5	37.5	41.6	43.1	43.6	42.0	42.5	40.7	39.5	37.8
9	Q 37.8	37.5	37.5	37.7	36.1	36.6	36.4	36.2	36.2	36.2	35.6	35.4	34.3	33.0	32.4	33.5	35.5	39.6	41.8	42.8	42.8	40.9	40.1	39.6	37.3
10	40.8	38.7	37.5	36.7	31.8	31.8	33.2	34.3	34.0	34.3	34.3	33.2	32.2	32.1	35.2	38.6	42.8	40.2	43.8	44.9	45.0	43.7	39.8	38.8	37.4
11	37.7	37.5	37.4	36.4	34.6	34.1	34.5	36.6	34.0	34.1	35.0	34.9	33.9	33.0	32.1	33.5	36.3	38.6	40.6	40.9	40.7	39.7	39.4	39.2	36.4
12	37.9	37.6	37.5	37.4	37.1	36.4	36.4	36.4	36.1	35.6	36.2	38.8	38.6	35.6	35.4	37.5	38.6	42.0	44.0	45.1	46.9	46.0	43.8	39.6	39.0
13	Q 38.0	37.5	36.8	36.4	34.3	36.3	37.1	36.4	35.9	35.2	34.3	34.3	33.2	31.9	31.2	33.7	37.2	40.3	41.0	41.6	41.3	39.8	39.2	39.4	36.8
14	D 37.5	40.0	36.1	33.9	35.4	35.4	35.4	34.4	33.4	35.5	34.3	31.1	31.1	30.2	31.1	36.2	40.7	42.5	44.8	43.9	42.0	42.8	43.9	38.5	37.1
15	D 37.6	32.2	34.2	33.0	33.9	34.5	45.1	36.7	29.3	37.0	40.5	38.8	38.9	41.7	37.5	35.4	39.2	42.9	46.0	45.1	45.7	41.4	38.5	39.5	38.5
16	D 32.0	31.0	35.6	33.2	38.6	37.5	34.6	33.1	40.8	39.5	37.1	35.4	45.1	43.9	32.6	34.5	37.6	40.7	42.5	42.9	41.8	39.6	32.2	31.9	37.2
17	36.7	35.7	37.8	36.4	41.4	36.5	36.4	37.8	38.8	36.7	36.2	35.4	34.4	32.9	32.1	33.5	37.7	40.8	43.8	44.1	42.9	41.9	39.5	34.4	37.7
18	37.4	37.1	32.1	36.4	34.3	33.4	35.4	38.2	41.7	37.8	34.3	34.2	32.4	30.2	29.0	33.6	38.6	43.1	44.0	43.8	42.1	40.7	39.2	38.3	37.0
19	37.5	37.3	36.8	34.3	35.4	36.3	37.4	41.8	40.9	34.4	37.9	39.6	36.4	32.0	30.9	32.2	36.2	41.7	43.9	45.1	45.2	43.5	40.7	38.6	38.2
20	37.5	37.3	34.1	24.9	34.1	35.5	36.4	36.5	36.4	37.0	38.5	45.3	39.7	33.2	31.4	31.9	35.4	39.6	43.1	44.7	44.2	42.9	41.9	38.6	37.5
21	38.2	37.1	35.5	36.2	35.8	35.4	36.4	36.6	37.8	37.5	36.3	35.0	33.4	32.2	33.3	36.4	38.2	40.7	43.9	43.9	43.3	42.6	40.7	38.6	37.7
22	Q 37.6	37.5	36.6	36.8	37.6	36.6	37.6	36.6	36.7	36.5	36.3	36.5	38.7	35.7	33.3	35.5	40.8	43.6	45.1	44.0	41.9	40.6	38.8	38.6	38.3
23	37.7	37.6	37.8	37.6	36.8	35.5	36.4	35.8	36.5	34.3	33.1	33.7	31.4	30.3	31.1	34.4	36.5	39.2	42.9	45.0	44.9	43.3	41.0	40.1	37.2
24	D 39.0	37.8	37.6	35.7	34.4	35.8	34.4	29.8	30.1	33.4	36.4	35.2	34.2	34.4	33.5	38.9	39.7	43.2	40.9	45.1	45.4	41.8	39.7	38.6	37.3
25	37.8	37.6	35.5	39.6	36.5	33.1	31.4	36.4	42.6	34.7	34.5	32.6	35.5	35.3	34.4	32.9	38.7	41.9	44.9	44.0	42.9	43.6	41.7	40.2	37.8
26	39.7	38.7	38.6	38.0	37.7	35.5	36.8	36.5	34.5	35.5	44.8	42.2	37.6	30.7	30.3	34.6	39.8	42.9	45.9	46.3	44.0	42.9	41.8	39.5	38.9
27	39.7	38.7	37.1	37.1	39.6	34.1	32.5	33.7	34.6	40.5	37.6	33.3	31.2	30.1	31.4	38.2	45.0	45.8	46.4	47.8	46.3	44.0	40.8	40.3	38.6
28	39.5	37.6	37.5	31.1	29.1	37.6	36.8	36.6	32.3	32.5	33.3	32.6	33.5	32.6	33.3	37.4	42.4	45.1	46.1	45.1	42.8	41.7	38.7	39.3	37.3
29	38.7	38.3	32.2	33.5	31.2	33.5	39.7	36.5	31.2	28.3	32.1	34.4	31.2	31.4	35.6	38.7	38.7	42.1	44.0	43.2	43.7	43.0	42.1	37.6	36.7
30	D 35.6	25.9	31.3	33.3	34.4	41.9	45.1	31.6	32.9	34.3	34.4	34.5	33.3	31.2	28.9	33.7	39.8	46.1	46.1	44.3	42.9	44.9	42.9	40.7	37.1
31	38.7	39.0	38.2	36.5	37.4	37.9	35.3	37.2	35.7	33.5	35.0	34.6	32.1	32.6	35.5	42.9	41.8	45.1	46.0	46.4	47.0	45.1	44.0	34.6	38.8
MEAN A	38.3	37.0	36.4	35.6	35.6	35.9	36.3	36.0	35.6	35.1	35.9	35.7	34.7	33.0	32.7	35.6	39.0	42.2	43.9	44.4	43.8	42.6	41.0	39.2	37.7
MEAN Q	38.3	37.8	37.4	37.2	36.3	36.5	36.7	36.7	36.7	35.8	35.5	35.2	34.7	33.0	32.3	34.3	37.7	41.4	42.8	42.9	41.8	40.9	39.9	39.4	37.5
MEAN D	36.3	33.4	34.9	33.8	35.3	37.0	38.9	33.1	33.3	35.9	36.5	35.0	36.5	36.3	32.7	35.7	39.4	43.1	44.1	44.3	43.6	42.1	39.5	37.8	37.4

VERTICAL INTENSITY

TABLE 9 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

MARCH 1968

HOUR UT DAY	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1	514	515	511	510	506	504	503	504	503	499	495	488	493	492	488	486	493	498	504	504	505	504	504	503	501
2	503	502	503	507	513	510	503	493	493	497	491	492	499	498	498	496	494	498	504	504	510	511	515	514	502
3	510	510	510	508	504	503	499	489	476	478	490	488	490	489	486	482	478	490	509	522	528	527	526	522	501
4	527	521	515	511	510	509	504	482	469	473	466	479	491	493	494	491	492	499	505	510	522	528	548	540	503
5	540	539	528	520	519	506	507	504	484	441	436	440	441	467	492	499	502	507	510	515	515	520	526	532	500
6	521	511	506	504	504	503	503	500	493	498	499	499	500	500	498	495	498	504	508	508	508	512	511	510	504
7	Q 507	504	503	492	492	495	498	498	488	492	494	497	499	500	498	494	492	496	498	499	501	504	503	501	498
8	Q 503	504	503	500	499	499	499	499	498	498	498	499	500	501	499	497	495	498	501	504	504	500	499	498	500
9	Q 498	499	499	499	499	498	498	497	497	495	494	497	498	499	499	498	497	497	500	502	500	499	499	501	498
10	502	501	503	504	500	495	503	499	498	498	498	497	496	492	486	483	481	479	485	492	500	506	504	503	496
11	503	499	500	502	496	491	474	467	481	489	497	499	499	498	495	492	492	496	496	497	499	502	503	501	494
12	496	495	494	494	494	495	495	495	493	492	487	484	477	480	476	474	474	484	495	505	510	512	509	503	492
13	Q 499	499	501	498	485	491	493	494	492	491	491	491	490	487	484	481	485	490	492	492	491	491	496	497	492
14	D 498	502	512	508	502	500	497	494	491	478	467	475	479	482	481	486	485	480	489	494	498	514	545	542	496
15	D 518	515	506	495	491	483	426	387	433	466	473	472	475	475	484	479	480	489	497	519	522	536	520	511	486
16	D 507	497	498	497	461	448	466	467	468	461	479	482	474	467	479	479	484	490	496	500	503	508	519	520	485
17	509	501	501	496	471	471	483	486	485	489	491	496	496	497	494	488	488	489	492	497	499	502	503	504	493
18	501	500	496	496	492	491	494	485	471	479	485	493	494	495	494	492	488	494	499	500	499	499	499	497	493
19	494	493	494	494	490	491	484	465	459	467	476	483	480	487	488	488	489	488	487	489	489	494	498	496	486
20	494	495	496	475	484	489	491	490	489	489	484	472	477	482	487	481	482	486	488	489	491	496	500	503	488
21	498	494	494	494	492	483	487	483	487	484	488	492	492	488	487	489	488	488	492	495	490	491	494	494	490
22	Q 493	493	493	493	492	491	488	488	489	489	488	492	493	494	492	487	487	489	494	495	492	493	493	493	491
23	492	491	490	490	487	487	488	488	489	487	487	488	486	480	477	476	475	475	479	480	491	504	510	504	488
24	D 503	500	499	497	489	446	428	412	442	467	475	474	482	487	482	476	474	480	486	492	509	522	507	498	480
25	497	503	512	515	498	489	491	481	451	473	489	490	485	489	491	480	484	490	493	503	503	504	510	501	493
26	497	495	493	492	491	486	483	475	486	485	467	457	464	474	474	481	485	485	486	491	495	504	509	513	486
27	520	528	519	514	488	450	447	459	479	478	479	489	496	494	489	490	491	494	496	500	514	520	520	513	494
28	506	500	496	491	477	489	491	474	472	491	495	492	490	490	487	483	478	483	490	493	494	502	506	499	490
29	494	494	492	476	484	486	466	453	456	454	464	469	481	494	490	493	493	494	491	493	493	500	520	530	486
30	D 530	521	525	512	499	439	397	485	493	501	499	500	499	498	489	486	497	524	534	540	558	531	519	512	504
31	505	501	497	496	495	477	483	464	454	483	494	495	491	490	489	491	490	496	505	523	528	524	532	537	497
MEAN A	506	504	503	499	494	487	483	479	479	483	484	486	487	489	489	487	487	492	497	502	505	508	511	509	494
MEAN Q	500	500	499	496	493	495	495	495	493	493	493	495	496	496	495	492	491	494	497	498	498	497	498	498	496
MEAN D	511	507	508	502	489	463	443	449	465	475	479	481	482	482	483	481	484	493	500	509	518	522	522	516	490

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1968

HORIZONTAL INTENSITY

TABLE 10 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

APRIL 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	757	734	738	743	747	750	746	747	753	758	761	757	747	755	745	722	729	730	724	755	773	777	777	773	750
2		778	769	762	777	771	769	778	772	769	772	771	766	770	761	733	729	727	730	750	751	772	778	777	765	762
3		760	771	772	771	759	766	771	765	762	761	764	766	765	798	728	738	738	742	748	756	766	781	788	778	763
4		766	755	748	749	749	752	756	760	770	771	771	772	777	768	751	750	765	777	783	778	777	784	784	781	766
5	D	781	772	765	765	766	765	765	768	768	770	772	772	772	765	748	744	765	776	778	786	794	848	792	723	772
6	D	731	739	736	736	749	730	733	593	651	733	771	754	721	739	734	727	720	731	748	764	764	786	770	765	734
7		771	776	770	779	774	771	768	753	763	777	767	765	764	750	728	732	736	742	754	766	776	779	780	786	764
8	Q	782	781	779	779	782	776	775	776	777	781	780	776	768	755	743	737	744	759	770	781	783	783	782	781	772
9	Q	781	781	777	777	777	777	779	781	781	782	785	782	780	765	749	743	744	754	769	785	793	793	797	792	776
10		791	785	780	775	776	780	781	781	781	780	785	780	770	758	743	742	749	763	772	784	790	790	790	795	776
11		791	790	785	781	779	781	780	778	772	780	785	784	786	776	759	749	758	768	776	791	792	791	795	791	780
12		786	786	786	786	791	791	796	791	799	796	799	798	795	787	776	769	770	769	773	797	784	809	791	770	787
13		775	780	785	753	771	785	785	786	786	785	769	769	769	765	743	725	720	743	760	779	797	780	785	786	770
14	D	780	778	766	776	775	770	775	779	781	781	770	742	766	759	736	719	730	731	749	772	780	786	791	786	766
15		784	785	785	784	785	785	784	785	780	774	786	781	775	746	727	718	720	730	746	757	772	780	782	779	768
16		783	774	788	790	785	785	784	781	777	778	784	781	772	757	746	746	750	757	767	774	779	784	790	786	775
17		785	780	779	784	787	782	784	777	780	779	768	779	780	763	746	751	741	746	756	774	789	792	781	790	774
18		785	790	791	786	784	784	783	781	775	774	780	785	781	764	743	741	752	775	790	803	800	801	796	795	781
19	Q	791	790	790	790	789	786	786	786	789	788	789	788	785	774	761	752	757	762	769	779	786	792	790	791	782
20	Q	790	790	788	786	786	786	789	789	789	789	786	784	775	762	748	746	755	768	780	790	795	796	796	795	782
21	Q	795	792	795	795	796	795	796	796	792	796	795	789	772	762	759	758	760	759	773	778	786	790	797	797	784
22		796	796	796	792	797	792	789	790	786	779	785	785	779	757	742	742	762	779	789	792	802	801	785	792	784
23		778	760	763	763	754	757	758	774	773	778	780	774	766	753	752	757	766	775	780	786	784	795	790	780	771
24		774	774	775	785	785	774	779	784	780	783	778	774	763	741	726	732	751	762	774	784	782	790	795	790	772
25		790	790	786	786	785	786	790	786	785	789	789	784	769	748	730	733	746	763	779	786	797	807	797	797	779
26	D	768	758	766	774	784	791	780	769	768	769	778	774	775	742	711	719	742	768	774	801	817	812	824	779	773
27		762	748	762	768	779	779	774	763	763	763	769	766	752	741	726	729	740	763	781	779	807	795	791	786	766
28		787	780	780	770	775	774	764	768	774	770	763	769	759	743	716	724	748	767	781	791	815	813	815	801	773
29		791	781	784	785	785	773	773	763	769	772	778	775	757	738	721	719	727	756	775	797	803	802	819	780	772
30		774	760	781	783	786	786	785	786	786	786	790	786	776	764	743	736	746	760	780	786	791	798	781	787	777
MEAN A		779	776	775	776	777	776	776	770	773	777	778	775	769	758	740	738	745	757	768	780	788	794	791	783	772
MEAN Q		788	787	786	785	786	784	785	786	786	787	787	784	776	764	752	747	752	761	772	783	788	791	793	791	779
MEAN D		764	756	754	759	764	761	760	731	744	762	771	760	756	752	735	726	737	747	755	776	786	802	791	765	759

DECLINATION

TABLE 11 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

APRIL 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	39.3	37.6	36.9	34.2	33.2	35.5	36.6	38.7	36.5	33.5	36.8	38.7	37.6	37.3	35.2	37.5	41.7	43.9	46.5	45.9	45.2	42.1	40.9	39.9	38.8
2		34.3	35.7	37.7	38.2	36.7	36.6	39.7	36.5	35.3	35.7	36.5	37.2	32.5	31.5	31.1	35.9	40.1	42.0	43.8	44.1	42.9	43.7	42.1	42.9	38.0
3		40.7	38.6	38.6	38.7	33.2	35.8	36.2	35.5	35.6	33.3	39.0	36.5	33.3	33.2	37.5	40.7	42.2	42.8	43.9	44.1	44.0	43.0	41.9	41.0	38.7
4		40.8	40.3	36.5	38.7	35.9	37.4	36.4	35.6	35.3	35.5	35.7	35.3	34.2	33.3	35.8	40.7	43.0	44.9	43.0	42.7	41.5	40.8	39.7	39.5	38.4
5	D	38.9	36.6	37.2	36.4	36.7	36.0	35.5	34.4	33.4	33.5	34.5	32.6	33.0	31.3	30.1	34.4	39.5	40.8	45.1	49.1	48.2	46.1	38.9	42.0	37.7
6	D	39.3	38.4	34.3	31.5	35.2	37.5	41.5	48.4	47.6	33.8	29.0	35.2	39.8	36.5	38.8	43.3	43.9	43.0	44.1	42.0	39.9	38.6	38.7	38.9	39.1
7		38.3	36.6	36.7	35.7	37.4	37.5	37.6	42.9	40.5	36.6	34.4	34.9	33.4	33.4	36.1	37.7	40.1	42.0	43.3	42.7	40.9	40.6	39.7	39.0	38.2
8	Q	38.7	37.6	35.7	35.5	36.5	35.8	37.6	36.9	36.5	36.4	35.2	35.3	35.5	33.5	35.5	38.4	41.9	44.0	43.8	42.0	40.7	39.0	38.7	38.7	37.9
9	Q	38.6	38.4	37.9	37.8	37.7	37.4	36.8	36.5	36.4	36.3	35.5	34.0	32.1	31.2	33.5	37.9	41.9	44.0	45.0	44.9	42.8	40.7	38.7	38.6	38.1
10		38.9	39.8	38.9	38.0	37.7	39.5	39.4	35.8	34.7	34.4	33.1	32.2	31.2	31.3	34.5	39.7	44.5	47.2	48.3	47.2	44.1	40.9	38.4	37.6	38.6
11		37.6	37.9	38.3	35.6	34.9	36.5	36.6	34.4	34.3	33.4	31.2	29.0	29.0	28.2	31.1	35.3	42.6	44.4	45.1	44.1	42.6	40.7	38.7	37.8	36.6
12		37.6	37.5	37.5	37.6	37.4	36.8	35.8	35.5	34.5	34.5	33.5	31.1	30.1	29.2	30.4	34.7	41.5	43.0	44.3	44.0	41.9	39.9	36.8	36.7	36.7
13		35.8	35.7	34.4	25.8	31.5	35.5	36.2	35.7	35.8	35.8	40.1	35.5	30.1	31.2	32.2	37.6	43.9	48.3	47.3	45.3	44.0	41.9	36.8	37.2	37.2
14	D	36.5	36.5	30.2	32.2	34.7	35.8	35.7	35.6	35.3	34.7	35.5	47.1	43.3	31.0	30.3	35.6	44.9	45.8	46.3	44.2	43.0	41.9	40.4	39.0	38.1
15		38.6	37.7	38.0	37.7	37.5	37.3	35.5	35.5	37.1	40.8	33.0	29.0	28.0	28.9	31.2	37.4	41.7	45.0	46.3	47.1	44.0	41.9	38.4	33.6	37.5
16		35.3	35.6	32.3	34.9	36.4	36.6	37.5	38.7	40.5	41.4	37.6	34.3	32.2	30.3	33.4	38.4	41.5	44.0	45.9	46.5	45.3	44.0	42.2	37.4	38.4
17		35.6	37.2	37.6	36.7	36.4	35.5	34.2	35.5	34.6	35.3	38.7	35.8	32.1	32.5	33.5	38.7	40.8	45.2	49.1	46.7	44.0	41.9	38.8	37.6	38.1
18		36.7	32.3	35.3	36.7	36.3	35.6	37.6	35.5	34.3	36.5	37.6	34.3	31.9	31.2	32.2	36.5	40.8	43.8	44.8	44.8	43.7	42.2	40.9	38.4	37.5
19	Q	38.6	37.9	37.6	37.6	36.5	36.5	36.4	36.5	35.6	35.2	34.4	32.5	31.3	31.2	32.9	36.3	39.6	41.4	42.6	43.2	42.9	41.8	40.1	38.9	37.4
20	Q	38.4	37.8	38.2	37.7	37.2	36.6	36.6	36.5	35.7	35.5	34.9	34.4	34.2	35.2	37.6	41.5	44.9	46.4	47.2	46.1	43.2	41.4	39.8	38.9	39.0
21	Q	38.6	38.0	37.7	37.6	37.2	36.6	36.0	35.5	35.6	35.5	34.7	32.6	31.3	33.3	37.5	41.3	43.8	45.1	46.1	46.1	44.2	42.8	40.8	38.9	38.6
22		38.4	37.7	38.6	36.7	37.5	36.5	36.7	33.4	33.2	32.3	32.0	30.4	30.0	31.1	36.6	42.9	47.2	46.0	46.0	45.0	44.0	43.3	42.9	41.9	38.4
23		37.6	33.3	35.8	35.5	34.4	34.6	35.7	36.8	37.5	38.7	36.3	32.6	32.5	34.1	38.0	40.8	41.0	41.8	43.9	44.0	42.1	40.9	39.8	38.7	37.8
24		38.4	36.6	36.5	35.5	36.2	35.3	37.6	37.4	36.4	35.6	34.0	32.6	31.1	31.2	35.1	42.6	46.1	48.5	48.3	45.2	41.7	38.8	36.6	36.6	38.1
25		37.7	38.1	38.3	38.3	37.8	37.7	38.6	36.6	36.3	34.3	33.1	31.0	30.1	30.2	33.4	40.5	45.9	47.3	46.1	44.9	43.0	40.8	37.9	39.6	38.2
26	D	39.0	36.3	34.8	33.2	39.4	38.6	37.5	34.3	34.0	33.3	32.2	30.2	28.1	27.4	29.9	39.6	43.2	42.6	44.2	40.7	40.4	40.7	37.7	36.3	36.4
27		34.7	37.6	37.5	37.7	34.2	37.9	39.5	40.5	40.4	30.4	31.0	29.0	27.9	29.6	33.7	38.2	40.7	43.1	44.1	46.2	42.8	40.6	38.7	37.5	37.2
28		37.5	36.1	36.3	35.0	35.4	39.1	36.3	38.8	37.8	34.4	34.3	32.0	30.0	31.0	34.3	43.1	47.1	47.3	46.0	45.0	42.0	40.7	37.5	35.4	38.0
29		33.5	37.4	36.4	40.6	37.5	38.8	36.2	41.9	34.0	33.0	30.9	28.9	29.1	30.0	34.3	37.6	44.1	46.3	45.1	43.9	41.7	39.6	38.7	37.6	37.4
30		36.7	37.1	35.6	36.4	37.6	37.6	37.7	38.6	40.5	37.8	32.6	31.1	30.1	31.3	31.1	37.4	43.7	47.8	48.1	46.0	42.8	40.4	39.7	38.3	38.2
MEAN A		37.7	37.1	36.6	36.1	36.2	36.8	37.0	37.1	36.5	35.2	34.6	33.5	32.2	31.7	33.9	38.7	42.8	44.6	45.5	44.8	43.0	41.4	39.4	38.5	38.0
MEAN Q		38.6	38.0	37.4	37.2	37.0	36.6	36.7	36.4	35.9	35.8	34.9	33.7	32.9	32.9	35.4	39.1	42.4	44.2	45.0	44.5	42.8	41.1	39.6	38.8	38.2
MEAN D		38.6	37.1	34.7	33.5	35.9	36.6	37.4	38.3	37.4	33.8	33.6	36.8	36.4	32.7	32.9	38.1	42.6	43.2	45.2	44.4	43.3	41.9	39.3	39.2	38.0

VERTICAL INTENSITY

TABLE 12 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

APRIL 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	528	532	517	491	491	493	476	470	443	459	484	486	487	488	488	497	505	510	512	517	522	530	520	510	498
2		509	499	503	490	492	492	476	476	487	493	493	493	498	498	497	500	499	500	505	514	523	524	523	528	501
3		520	510	492	495	489	493	489	484	486	476	482	486	488	488	487	487	488	494	493	491	492	499	507	511	493
4		519	528	528	517	512	505	500	498	493	498	498	498	498	498	494	491	487	483	484	487	493	501	506	506	505
5	D	504	509	508	504	499	498	498	497	497	498	498	498	498	498	494	488	490	491	488	491	516	573	663	648	544
6	D	516	505	512	515	513	481	446	347	349	442	470	485	475	486	484	491	504	527	528	525	526	521	513	509	486
7		504	499	498	486	481	486	493	470	463	481	481	492	492	493	490	492	491	486	487	491	493	497	496	498	489
8	Q	496	493	492	492	486	487	492	493	493	492	492	492	493	492	491	487	486	491	492	493	493	496	497	496	492
9	Q	492	492	491	491	492	491	491	491	491	492	492	492	492	490	489	487	486	486	484	485	486	490	493	491	490
10		491	492	495	497	494	492	481	484	487	490	490	486	484	480	476	473	468	474	480	489	490	491	492	492	486
11		491	491	494	483	486	490	489	480	487	485	480	475	475	477	474	469	476	480	481	485	485	484	487	485	483
12		485	486	484	485	485	486	485	485	485	484	485	485	484	482	478	474	480	485	493	497	490	502	508	509	488
13		503	497	488	473	482	489	490	489	486	481	468	461	471	474	476	477	482	492	497	510	514	520	521	504	489
14	D	503	497	495	480	478	473	489	492	491	490	486	460	434	458	468	466	481	491	497	504	503	499	500	500	485
15		495	491	489	490	489	485	482	487	481	452	457	474	482	483	481	480	484	488	492	498	503	504	509	509	487
16		503	500	486	476	465	469	480	484	474	470	480	481	481	481	484	484	485	486	487	490	497	513	514	511	487
17		498	492	490	487	479	479	476	470	476	480	479	479	479	475	475	484	486	489	494	498	496	500	502	502	486
18		496	490	483	484	485	478	464	468	476	480	478	478	476	477	473	472	473	473	479	484	485	489	488	490	480
19	Q	486	485	485	484	483	484	484	484	484	484	485	485	482	477	473	472	471	468	467	472	475	484	487	486	480
20	Q	485	485	484	484	484	484	484	484	484	484	485	485	485	482	473	467	463	466	464	467	473	480	484	484	479
21	Q	484	484	484	484	483	484	483	483	483	483	485	484	481	479	474	475	477	478	479	482	484	486	489	486	482
22		484	485	485	485	487	486	479	461	466	474	484	485	485	479	472	473	474	473	475	483	490	498	506	508	482
23		514	504	499	496	489	473	484	497	496	495	490	488	486	484	479	477	473	475	484	493	498	503	508	511	491
24		508	502	498	481	463	468	485	491	491	491	490	490	486	484	475	472	473	479	484	489	494	497	498	495	487
25		490	489	488	488	487	485	485	485	487	489	490	490	488	483	479	484	488	494	496	496	500	514	520	519	492
26	D	530	529	514	498	494	474	461	479	490	499	500	496	490	482	479	490	493	498	508	546	558	553	570	541	507
27		541	520	507	496	485	492	492	454	415	437	485	497	496	492	490	489	490	496	497	504	519	508	503	501	492
28		497	500	475	483	457	471	474	484	490	490	489	490	490	484	475	483	484	485	490	496	502	507	518	508	488
29		498	495	494	484	472	465	456	438	450	482	491	491	490	491	491	489	489	492	496	502	503	512	530	525	489
30		514	503	496	491	489	489	489	485	478	483	489	495	491	488	479	479	480	485	490	495	496	506	506	506	492
MEAN A		503	499	495	490	486	484	482	476	475	481	485	486	485	484	481	482	483	487	490	497	502	509	512	506	490
MEAN Q		489	488	487	487	486	486	487	487	487	487	488	488	487	484	480	478	477	478	477	480	482	487	490	489	485
MEAN D		516	514	509	498	495	484	474	457	454	478	488	485	477	482	481	487	495	503	507	522	536	553	550	521	499

HORIZONTAL INTENSITY

TABLE 13 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

MAY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		786	785	785	788	784	783	785	785	783	784	781	776	777	748	736	724	758	770	780	776	813	818	817	796	780
2		775	770	764	767	774	765	770	779	769	759	764	779	773	759	748	740	746	748	769	785	803	807	802	812	772
3		793	785	800	802	787	768	785	785	786	786	784	781	771	759	746	742	751	764	776	791	796	806	808	801	781
4	Q	797	797	791	791	793	792	791	791	787	791	791	786	780	765	748	743	743	760	772	786	793	791	793	794	782
5	Q	792	792	792	791	788	789	791	793	794	794	792	792	783	764	753	755	767	781	797	808	809	804	798	797	788
6	Q	792	792	798	803	803	803	804	803	803	804	803	800	792	781	769	769	786	804	820	820	817	814	805	799	799
7	D	808	814	819	830	830	748	632	687	682	640	715	715	671	655	676	738	754	764	788	805	792	787	796	796	748
8		780	780	778	777	773	775	769	765	768	765	754	760	770	760	753	754	767	786	790	792	788	791	786	788	774
9	D	792	776	777	758	776	761	761	777	776	766	771	763	758	748	751	743	760	776	798	814	825	808	786	769	775
10		777	782	781	789	767	777	785	787	789	793	798	793	785	772	758	763	776	783	791	799	803	807	808	802	786
11		818	797	783	787	789	793	792	794	787	802	806	804	792	783	786	778	782	797	809	807	815	821	808	807	797
12	D	798	805	771	772	755	720	777	788	787	786	761	761	767	766	752	755	765	781	791	798	808	804	810	810	779
13		792	779	792	793	797	803	803	806	798	785	787	798	783	766	750	742	748	765	782	795	810	804	800	797	786
14		798	792	806	797	787	786	787	792	787	798	793	786	777	763	750	755	764	777	778	798	801	798	809	801	787
15		798	800	808	795	792	789	788	770	782	799	793	798	786	770	756	756	760	767	777	793	808	809	797	802	787
16		798	806	794	788	793	798	799	791	788	798	793	778	756	745	735	729	738	745	764	772	778	787	793	794	777
17		793	794	790	783	782	784	800	799	798	793	799	805	799	774	756	757	778	784	780	779	805	811	789	804	789
18		799	802	799	800	794	789	788	789	787	788	790	785	784	771	740	706	706	755	779	794	794	796	807	794	781
19		796	797	799	798	798	793	794	799	794	788	793	788	776	777	758	744	744	761	776	799	811	800	788	788	786
20	D	804	774	762	784	774	780	776	778	784	766	762	761	767	756	756	739	739	756	779	797	816	816	817	800	777
21	D	817	789	783	785	789	789	793	786	782	779	782	775	745	745	744	697	734	773	788	810	832	838	831	798	783
22		788	771	757	756	762	765	750	766	765	776	770	770	767	751	734	729	745	755	782	790	799	799	827	788	769
23		794	805	790	784	786	784	782	783	782	778	777	773	770	763	765	757	756	776	784	810	815	819	822	816	786
24		805	779	757	778	782	788	760	745	765	771	770	772	764	764	750	738	755	778	794	798	809	821	798	800	777
25		798	788	788	789	792	788	787	784	780	779	782	788	788	767	744	728	740	768	798	804	816	805	794	788	783
26	Q	788	797	794	790	792	784	787	787	787	786	784	788	777	768	755	747	758	771	782	792	798	799	794	793	783
27	Q	793	796	799	799	802	799	799	797	798	799	804	805	795	776	763	761	771	793	810	816	822	826	827	810	798
28		813	810	810	807	810	805	804	805	804	804	805	803	794	782	772	768	770	779	801	817	819	822	811	803	801
29		801	799	793	790	787	785	784	778	788	788	795	794	783	777	766	776	793	815	822	828	838	838	805	806	797
30		794	811	815	793	794	796	804	801	805	807	806	805	798	779	773	773	781	792	799	815	821	821	808	809	800
31		799	788	796	786	783	793	794	799	800	793	791	789	779	783	779	771	767	784	811	816	807	816	798	801	793
MEAN A		796	792	789	789	788	783	781	784	784	782	784	783	774	762	752	748	758	774	789	800	808	809	804	799	784
MEAN Q		793	795	795	795	795	793	794	794	794	795	795	794	785	771	757	755	765	782	796	804	808	807	804	799	790
MEAN D		804	791	782	786	785	759	748	763	762	748	758	755	742	734	736	735	751	770	789	805	815	811	808	795	772

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

VERTICAL INTENSITY

TABLE 15 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

MAY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1		505	499	498	495	494	494	493	492	492	491	494	492	495	492	490	485	481	480	492	497	515	538	561	580	502	
2		554	515	515	514	498	484	480	481	485	468	467	479	490	487	491	492	494	492	498	502	503	505	503	503	496	
3		499	500	497	470	440	410	474	490	491	496	492	491	485	485	481	476	474	475	480	485	488	493	497	492	482	
4	Q	492	492	492	491	489	490	490	488	487	488	491	491	490	487	482	485	489	496	498	498	497	496	497	497	491	
5	Q	494	492	491	492	492	491	491	491	491	492	492	492	492	492	492	487	481	486	487	494	498	498	498	494	492	491
6	Q	492	492	492	491	491	489	487	489	488	491	491	489	487	485	481	469	463	464	472	475	482	490	489	487	484	
7	D	488	489	491	491	485	408	312	422	439	390	439	436	428	416	435	440	487	498	503	510	515	527	534	537	463	
8		515	503	498	498	497	488	492	492	492	491	485	482	486	481	480	474	477	481	486	492	495	498	503	505	491	
9	D	501	492	452	476	481	478	462	473	469	476	473	467	445	458	463	463	470	475	497	528	561	568	548	524	487	
10		514	509	502	504	508	509	505	503	501	502	502	499	499	498	487	483	485	487	486	493	494	498	497	492	498	
11		498	498	486	481	492	480	468	475	445	449	476	485	482	478	482	479	475	473	480	487	495	499	499	509	482	
12	D	526	488	491	473	451	337	411	476	491	492	481	468	480	486	480	485	488	492	491	492	507	513	505	503	479	
13		502	502	492	491	475	463	470	480	481	479	468	471	470	470	469	468	469	481	487	498	504	501	499	498	483	
14		496	496	480	469	480	485	475	479	486	491	492	486	481	483	482	480	481	481	482	497	501	502	499	495	487	
15		492	492	481	482	481	457	433	398	435	479	489	492	487	478	474	474	475	481	486	493	496	501	502	504	478	
16		502	486	484	487	470	479	473	466	473	484	477	475	473	472	469	474	487	502	508	511	508	507	506	498	486	
17		496	493	495	492	482	470	456	469	480	484	487	486	485	485	480	466	467	474	485	497	512	529	515	502	487	
18		499	497	491	480	486	490	485	456	467	484	490	490	489	481	473	470	480	492	503	514	509	514	521	509	490	
19		501	497	495	480	479	490	491	483	467	483	494	491	485	481	480	478	484	491	496	509	530	532	520	507	493	
20	D	509	513	502	493	456	475	455	427	445	442	456	467	489	497	497	490	495	507	508	503	509	518	532	536	488	
21	D	521	509	497	504	500	500	497	471	453	474	486	487	484	485	483	472	501	526	533	556	574	575	572	536	508	
22		523	515	496	444	436	448	449	487	495	506	502	503	500	496	496	496	502	503	507	506	503	506	519	508	494	
23		508	495	485	496	496	496	496	496	496	496	494	491	490	493	496	494	490	494	500	511	519	535	542	549	502	
24		514	492	489	473	494	478	471	439	461	485	479	479	487	496	494	494	496	497	506	510	511	513	507	508	491	
25		503	496	496	496	494	495	496	496	496	493	490	492	494	491	490	490	494	489	493	503	519	518	513	506	497	
26	Q	498	499	499	496	480	489	495	495	496	500	502	504	505	503	494	488	482	479	485	490	492	496	496	495	494	
27	Q	494	494	494	494	493	492	491	491	493	494	495	494	494	492	483	471	471	470	475	483	485	484	491	492	488	
28		493	490	489	488	488	487	488	488	488	490	492	493	492	488	487	478	476	481	488	498	504	506	505	501	491	
29		500	501	502	499	498	498	495	494	487	487	493	494	498	494	488	493	497	498	499	506	511	506	501	495	497	
30		494	498	499	469	492	493	490	475	459	476	487	486	483	480	477	472	474	476	476	481	493	506	505	505	485	
31		503	497	481	487	489	489	488	491	481	479	489	487	484	486	487	489	487	482	487	491	493	498	491	492	489	
MEAN A		504	498	492	487	483	475	473	476	478	482	485	485	485	484	482	479	483	487	493	500	507	512	512	508	490	
MEAN Q		494	494	494	493	489	490	491	491	491	493	494	494	493	492	485	479	478	479	485	489	491	493	493	492	490	
MEAN D		509	498	486	487	475	440	427	454	459	455	467	465	465	468	471	470	488	499	507	518	533	540	538	527	485	

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 16 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

JUNE 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		803	811	803	803	809	805	802	805	816	799	792	808	793	781	746	751	761	781	789	790	804	822	828	793	796
2		788	788	791	804	793	776	775	797	799	788	783	782	777	756	739	751	770	792	808	815	817	847	829	821	791
3		814	793	798	794	799	794	787	788	792	794	788	774	776	781	762	734	744	765	787	817	825	820	815	812	790
4		799	804	800	794	799	801	798	799	794	789	794	789	772	759	748	761	765	779	793	815	820	821	826	820	793
5	Q	793	793	794	799	805	801	794	793	793	793	794	791	777	762	750	752	763	778	793	810	819	805	805	800	790
6	Q	799	800	802	800	798	800	799	793	794	794	794	792	778	766	764	762	771	783	799	814	816	810	811	807	794
7		804	810	807	809	806	809	810	808	800	807	808	800	792	794	778	749	753	798	818	820	825	820	814	807	802
8		811	813	813	810	810	808	808	810	810	807	807	799	782	755	726	757	800	827	826	826	826	826	820	820	803
9		814	813	810	811	826	809	810	805	807	812	808	805	799	788	777	782	783	794	794	819	841	843	835	823	809
10	D	812	790	782	782	778	782	751	746	711	786	798	744	729	761	740	728	738	771	782	804	817	815	893	896	781
11	D	875	820	800	587	698	743	761	713	605	467	692	707	750	750	719	743	776	777	799	819	799	835	831	831	746
12	D	799	782	782	750	740	756	711	733	709	755	767	762	746	732	707	717	728	745	776	799	812	827	837	799	761
13	D	788	789	776	760	744	732	701	758	733	772	751	717	679	686	685	685	701	738	782	802	830	799	788	793	749
14	D	788	775	784	789	790	793	799	776	745	745	750	734	733	733	729	743	761	776	778	789	816	830	814	814	774
15		789	784	791	794	795	795	796	793	790	783	782	778	773	767	766	767	765	779	799	803	811	810	826	811	790
16		800	798	801	795	793	793	794	793	794	792	782	777	785	787	766	767	778	799	805	842	844	885	821	819	800
17		804	779	789	789	787	779	732	711	762	758	769	788	773	763	771	772	772	788	800	808	805	806	805	794	779
18		796	798	794	790	794	795	794	793	784	789	784	778	773	789	781	771	761	781	794	827	834	816	806	811	793
19		799	791	795	792	779	783	779	777	783	783	783	782	779	752	771	773	788	801	833	838	854	829	806	793	793
20		799	790	795	793	792	785	790	789	789	799	800	799	794	790	782	778	789	799	814	815	821	807	808	804	797
21	Q	802	802	801	801	801	801	796	796	801	804	808	811	807	800	793	791	796	804	821	834	833	818	810	801	805
22		800	806	810	812	820	824	829	810	801	791	790	791	797	802	796	786	779	780	789	792	816	812	801	795	801
23		796	800	806	795	794	795	786	788	789	789	794	800	800	789	774	767	773	790	801	806	815	813	810	811	795
24	Q	806	807	806	805	802	805	802	801	801	804	807	807	801	786	772	763	763	774	790	805	812	816	813	810	798
25	Q	808	808	808	807	804	804	806	806	802	803	807	805	797	790	774	764	764	776	796	812	824	828	825	828	802
26		850	823	817	817	817	809	813	811	813	813	812	810	814	805	791	786	793	807	813	823	829	840	813	819	814
27		823	819	813	817	822	808	803	802	803	807	814	817	789	792	775	764	769	779	808	819	834	845	823	816	807
28		817	817	805	803	802	804	804	802	801	802	807	810	802	784	775	775	780	795	802	812	818	814	813	822	803
29		818	818	809	814	809	807	804	809	809	809	810	814	812	803	789	780	770	781	797	825	871	830	814	851	814
30		803	814	798	787	802	804	797	796	798	797	802	803	800	789	787	781	776	771	796	812	818	819	808	811	799
MEAN A		807	801	799	790	794	793	788	787	781	781	789	786	780	774	761	759	766	783	799	815	822	824	820	814	792
MEAN Q		802	802	802	802	802	802	799	798	798	800	802	801	792	781	771	766	772	783	800	815	821	815	813	809	798
MEAN D		812	791	785	734	750	761	744	745	701	705	751	733	727	732	716	723	741	761	783	802	815	821	833	827	762

VERTICAL INTENSITY

TABLE 18 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

JUNE 1968

HOUR UT DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	491	493	491	490	476	473	480	484	482	475	473	481	476	473	468	471	474	480	485	497	498	504	516	520	485
2	509	504	485	468	464	450	433	456	470	475	479	481	480	482	486	480	473	473	485	501	504	514	523	516	483
3	515	509	504	496	485	484	485	485	486	491	491	487	480	479	473	468	470	475	479	491	501	504	502	504	489
4	496	486	475	483	483	473	481	483	474	472	480	486	484	483	478	479	484	484	489	495	498	501	508	508	486
5	Q 496	492	490	489	479	473	478	482	486	490	490	488	487	483	478	478	478	488	496	496	499	496	495	490	487
6	Q 485	484	484	484	484	485	482	483	484	485	489	486	482	482	484	485	484	487	489	493	491	489	489	489	486
7	488	488	488	488	489	488	470	460	469	478	482	482	476	470	468	460	463	466	467	471	476	478	486	484	476
8	484	484	483	482	483	480	483	482	480	485	488	486	483	484	485	479	484	484	489	492	495	498	499	495	486
9	487	485	484	483	459	453	470	481	484	488	488	486	482	477	475	477	472	477	488	502	516	524	527	511	487
10	D 503	504	495	487	429	419	412	369	356	458	482	456	431	450	459	470	483	494	496	499	514	523	569	652	475
11	D 565	516	528	161	291	402	427	350	242	287	393	435	477	499	495	499	505	505	514	535	564	550	541	551	451
12	D 534	530	505	447	457	451	330	381	383	413	429	423	429	457	469	500	505	524	545	562	550	556	556	524	478
13	D 514	509	458	442	357	393	373	359	361	360	355	353	380	419	431	457	482	499	526	563	581	574	538	519	450
14	D 517	516	501	498	494	486	464	458	359	372	400	412	421	442	457	480	497	504	512	510	516	524	522	510	474
15	498	497	495	493	489	486	484	462	470	487	490	487	491	492	486	486	486	491	493	494	498	492	497	502	489
16	497	492	493	493	493	492	492	491	492	490	485	468	464	469	478	480	479	486	493	514	521	544	532	525	494
17	519	509	496	487	481	463	393	358	395	417	434	477	491	492	491	488	483	487	497	496	492	492	498	499	472
18	497	496	492	492	490	490	474	454	457	474	485	487	486	485	486	485	481	497	509	532	537	520	504	514	493
19	509	493	473	486	464	457	468	452	456	468	473	477	480	486	489	503	503	507	498	508	519	526	528	519	489
20	508	502	495	491	490	473	484	489	491	496	496	495	491	490	492	486	477	470	473	474	489	495	496	495	489
21	Q 491	490	489	490	489	489	490	490	491	492	492	491	491	490	487	484	479	473	471	481	482	485	486	489	487
22	489	489	489	489	487	479	451	447	438	445	462	460	464	470	474	473	480	491	491	491	503	507	506	502	478
23	497	496	491	488	491	485	458	460	474	484	489	489	487	485	480	479	473	466	468	482	495	498	496	498	484
24	Q 493	490	489	488	487	484	484	486	490	494	497	495	494	491	491	488	484	483	484	488	490	492	494	491	490
25	Q 488	486	485	485	485	486	487	484	486	490	491	494	490	483	473	470	466	461	464	459	466	483	486	490	481
26	499	490	490	485	484	484	484	484	484	484	488	485	477	476	478	466	464	473	476	479	485	497	497	497	484
27	491	490	489	484	473	476	479	479	484	490	486	483	477	483	476	479	479	484	489	491	499	503	501	500	486
28	492	487	486	485	485	485	484	484	487	490	491	489	480	473	468	466	461	472	478	484	491	495	490	489	483
29	489	488	484	483	483	483	482	482	484	488	489	490	483	479	476	476	477	481	484	494	490	494	511	507	487
30	500	495	496	500	495	488	486	486	483	487	494	497	494	490	489	488	489	478	483	500	504	511	515	518	494
MEAN A	501	496	490	474	470	470	462	457	453	464	472	474	474	477	477	479	480	485	490	499	505	509	510	510	482
MEAN Q	490	488	487	487	485	483	484	485	487	490	492	491	489	486	482	481	478	478	481	484	486	489	490	490	486
MEAN D	526	515	497	407	406	430	401	384	340	378	412	416	428	453	462	481	494	505	518	534	545	545	545	551	466

HORIZONTAL INTENSITY

TABLE 19 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

JULY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		809	802	796	794	794	794	797	801	792	792	796	794	787	774	764	758	759	779	793	798	809	819	825	812	793
2		813	819	801	803	802	803	803	803	797	808	797	793	792	776	765	759	764	775	791	802	813	818	822	819	797
3	D	816	813	803	802	806	786	795	777	754	807	807	803	791	781	764	763	775	788	803	813	817	813	814	810	796
4		806	802	803	808	804	803	810	802	800	798	802	802	804	797	787	781	782	782	802	812	822	841	823	819	804
5		819	814	809	805	802	802	807	806	801	797	808	808	802	788	772	754	770	791	809	822	823	825	815	813	803
6		814	811	804	813	809	815	814	813	809	814	811	813	807	803	787	783	783	792	809	819	828	829	821	815	809
7		814	814	814	819	818	814	815	803	792	802	804	807	798	791	776	760	781	804	824	834	835	824	821	810	807
8		814	815	820	816	808	811	810	803	804	803	815	814	809	793	776	776	787	809	821	830	827	821	814	814	809
9	Q	814	815	815	815	820	813	804	803	803	807	810	809	803	787	776	770	780	799	810	823	828	837	845	852	810
10	D	859	858	819	829	798	786	806	792	759	786	756	799	765	767	777	776	770	780	797	824	827	863	879	841	808
11		813	809	804	793	804	803	797	797	791	793	797	797	786	772	745	732	748	764	794	823	816	820	831	829	794
12		808	792	785	793	798	802	799	798	798	803	804	805	802	792	786	770	771	791	798	804	808	808	810	809	797
13	D	809	815	809	808	821	800	799	803	802	806	808	808	803	787	769	764	766	809	855	927	879	888	873	840	819
14	D	810	765	753	725	764	782	793	787	783	782	780	777	783	776	766	766	774	786	779	778	802	824	821	802	782
15		805	804	797	797	804	798	792	794	753	793	792	789	782	771	760	754	774	795	790	787	807	815	810	817	793
16		810	808	807	810	809	814	802	802	799	798	799	799	793	776	764	771	749	786	813	819	814	820	820	824	800
17		818	809	809	808	807	805	808	804	804	803	803	803	787	791	783	770	771	787	808	817	808	821	820	820	803
18		816	815	821	799	805	803	809	805	805	810	808	798	799	787	762	783	787	800	803	820	827	825	824	824	806
19		809	815	815	816	815	815	811	809	809	810	815	806	798	780	761	754	777	809	826	843	853	847	838	826	811
20	Q	797	800	810	809	809	807	809	809	810	810	812	810	799	788	773	771	767	776	798	815	820	822	817	810	802
21		806	811	814	815	811	813	812	812	815	814	816	815	810	793	792	781	784	794	804	825	834	837	826	825	811
22	D	816	820	815	815	815	805	810	797	797	794	782	784	790	788	765	761	772	783	789	809	816	816	821	818	799
23		810	811	808	799	795	793	798	809	810	815	811	806	794	778	760	756	783	821	836	842	841	824	815	811	805
24	Q	803	808	811	810	810	811	811	808	805	806	810	807	799	787	770	760	766	783	798	804	807	815	815	814	801
25		815	816	814	814	815	815	814	811	816	821	822	822	810	789	750	769	790	800	815	831	840	832	822	822	811
26		821	820	825	825	814	809	816	815	810	803	799	805	800	787	783	760	760	777	806	820	817	868	842	827	809
27		811	804	802	812	800	805	813	806	793	806	804	795	789	784	779	773	779	785	794	800	809	809	811	817	799
28		816	811	811	812	812	811	810	807	810	806	805	806	801	797	782	768	778	791	806	817	817	819	816	812	805
29	Q	818	816	806	811	817	822	816	813	812	811	811	810	805	793	779	784	787	799	821	832	832	822	817	812	810
30		815	811	816	819	816	815	817	817	818	818	818	812	801	794	774	778	785	795	816	827	844	843	825	829	813
31	Q	815	806	816	816	816	813	812	810	811	812	806	805	804	794	778	768	785	810	823	828	826	827	822	822	809
MEAN A		813	811	807	807	807	805	807	804	801	804	805	803	797	786	772	767	774	792	807	821	824	829	825	820	804
MEAN Q		809	809	811	812	814	813	811	809	808	809	810	808	802	790	775	771	777	793	810	820	823	825	823	822	806
MEAN D		822	814	800	796	801	792	801	791	787	795	795	794	786	780	768	766	771	789	805	830	828	841	841	822	801

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

DECLINATION

TABLE 20 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

JULY 1968

HOURLY UT DAY	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1	38.4	34.7	38.0	34.7	38.6	35.2	37.3	40.5	36.2	35.2	35.3	30.9	29.5	28.8	32.9	37.4	40.3	42.5	43.6	43.7	41.6	39.2	37.4	37.0	37.0
2	38.0	36.0	37.0	38.4	37.1	36.3	36.2	35.2	38.0	37.0	30.7	28.8	27.2	28.5	31.7	35.0	40.6	43.3	44.5	44.7	43.7	42.4	39.3	37.1	37.0
3	D 36.0	34.0	33.0	37.2	33.9	31.0	36.2	31.5	40.6	34.9	32.9	29.5	27.7	29.2	30.6	33.9	38.3	42.6	42.3	42.3	41.7	41.4	39.9	38.3	35.8
4	38.0	38.2	38.2	36.0	36.2	39.1	40.6	40.1	38.2	39.3	39.2	32.9	30.9	32.9	33.1	37.5	41.6	43.7	43.7	44.7	42.8	40.6	39.6	38.4	38.6
5	35.3	35.0	36.0	37.0	37.4	38.5	39.2	38.9	40.4	44.7	36.1	31.7	28.8	29.6	32.0	37.2	45.1	45.8	45.8	46.9	44.5	41.7	40.2	37.9	38.6
6	37.3	37.4	35.1	36.2	37.5	36.0	39.2	39.2	39.2	41.4	36.3	30.6	27.3	26.7	30.6	35.3	40.6	43.3	46.1	47.0	45.5	43.4	41.2	38.6	38.0
7	38.3	38.4	37.3	38.5	38.4	38.1	39.4	37.4	44.9	35.1	32.0	30.8	30.9	31.9	36.1	41.6	47.2	46.9	47.1	44.8	41.9	40.7	38.5	37.3	38.9
8	37.4	38.4	37.5	35.4	38.1	40.6	42.7	37.4	38.5	41.2	33.0	30.7	28.9	29.5	31.9	37.2	41.5	45.8	47.9	45.9	43.0	40.8	40.4	39.3	38.5
9	Q 38.5	38.7	39.3	38.7	38.6	36.4	39.3	38.3	37.5	38.4	34.1	31.9	30.6	31.9	34.9	40.7	44.9	41.9	47.1	45.9	43.8	42.5	40.5	38.6	38.9
10	D 39.4	42.4	38.1	39.4	41.5	44.7	35.1	36.0	41.5	40.4	30.8	27.8	35.1	45.9	37.6	37.2	41.6	45.9	48.2	50.2	50.6	45.8	41.6	36.2	40.5
11	39.3	35.4	38.9	33.0	34.8	37.2	37.2	36.2	37.5	36.0	32.5	28.5	27.2	27.9	30.7	34.5	40.7	46.0	47.8	45.9	44.6	41.8	39.3	34.9	37.0
12	33.9	33.8	33.0	33.7	38.2	40.5	39.6	39.2	38.7	37.3	34.9	31.8	29.8	28.6	30.4	32.9	39.3	42.4	44.4	44.7	43.8	41.6	40.2	38.6	37.1
13	D 37.7	37.3	38.6	39.2	36.3	37.2	39.7	37.3	37.4	37.0	35.0	33.0	32.1	33.8	36.2	40.5	39.6	40.7	45.8	47.0	42.6	40.6	37.2	38.0	38.3
14	D 38.3	29.6	34.2	37.3	32.8	37.4	37.2	40.4	39.0	37.3	34.0	30.7	29.9	27.2	29.5	33.0	37.2	40.4	44.0	45.9	45.2	43.7	41.5	40.3	36.9
15	39.6	38.5	38.4	37.1	35.0	37.0	39.3	39.2	39.0	37.2	36.0	34.4	32.9	33.1	34.0	38.5	43.7	45.6	45.7	45.8	42.4	39.9	39.4	38.0	38.7
16	35.0	36.2	38.6	39.3	38.3	37.6	37.1	37.9	37.3	36.4	34.9	32.8	31.8	31.8	35.0	37.3	38.2	43.0	44.7	43.7	43.6	42.6	41.6	39.4	38.1
17	38.3	38.4	38.5	38.3	38.4	38.4	38.3	38.3	38.3	38.0	36.3	35.0	34.2	32.8	31.6	34.3	38.0	41.6	43.4	43.7	43.6	41.4	40.2	39.1	38.3
18	37.9	35.0	36.1	38.3	34.1	36.2	36.8	37.0	37.1	36.3	36.0	34.6	32.5	29.7	31.2	40.5	40.3	41.6	43.6	43.6	42.3	41.3	38.4	37.0	37.4
19	37.1	37.2	37.9	34.9	37.8	37.6	37.3	38.2	39.2	42.2	36.9	35.8	32.7	30.8	32.8	37.9	43.7	44.6	45.8	44.5	42.5	38.9	36.8	36.8	38.3
20	Q 37.8	39.2	37.1	39.0	38.5	39.2	38.5	38.1	37.1	36.0	33.3	30.8	29.5	29.5	31.7	37.1	41.6	45.6	46.9	46.0	44.3	41.2	38.2	37.0	38.1
21	37.2	37.2	38.4	39.0	38.4	38.2	38.4	38.5	37.9	35.1	32.8	30.5	28.4	27.3	30.5	34.9	40.3	43.0	46.8	46.0	42.4	40.2	38.2	37.1	37.4
22	D 36.2	26.1	35.0	37.1	37.5	34.4	35.9	41.3	43.2	41.7	30.7	30.7	28.5	31.8	31.7	39.8	44.6	44.6	47.0	46.8	42.7	40.3	38.9	36.4	37.6
23	37.9	38.3	36.0	36.6	37.3	37.2	40.4	42.5	42.7	35.8	33.8	30.6	29.4	30.4	32.5	42.4	47.9	47.6	45.9	44.6	41.3	39.0	37.1	36.9	38.5
24	Q 39.0	39.2	39.2	39.2	39.1	38.2	38.2	38.5	38.7	36.9	34.2	31.9	30.6	30.7	33.5	38.1	40.3	43.5	43.6	43.5	42.4	41.3	39.3	38.4	38.2
25	37.8	37.9	37.9	38.5	38.1	37.1	37.1	37.0	37.1	36.0	32.9	29.5	25.1	27.1	28.4	40.6	44.2	47.8	50.0	48.9	45.8	43.1	40.5	39.1	38.2
26	38.3	38.2	37.4	39.3	33.9	36.3	38.1	37.4	36.9	37.9	38.3	29.5	27.1	27.3	30.6	34.5	44.0	48.1	50.0	51.1	49.2	44.5	39.1	38.4	38.6
27	34.6	35.6	35.0	38.7	33.8	34.9	35.0	36.9	42.0	40.3	32.8	29.4	26.1	26.1	27.3	33.8	40.0	44.7	45.8	44.4	43.3	42.3	39.6	37.8	36.7
28	35.1	35.9	37.1	38.4	39.0	37.2	38.7	38.3	38.2	37.1	36.0	33.7	30.8	28.8	28.4	31.7	38.2	41.4	43.8	43.9	43.5	42.5	40.5	38.1	37.3
29	Q 34.9	36.3	37.1	37.9	38.4	38.2	37.8	38.2	37.9	36.2	33.8	32.5	30.5	29.5	29.5	31.7	37.1	41.4	44.6	46.3	45.8	43.6	42.0	40.9	38.0
30	39.2	38.2	38.5	37.3	38.9	38.4	38.1	37.9	37.8	36.8	34.4	31.7	30.3	30.6	30.6	38.2	43.6	47.9	49.0	47.6	44.6	41.4	39.2	37.8	38.7
31	Q 38.2	37.1	38.3	38.4	38.2	36.2	38.2	40.4	38.9	37.3	35.7	34.9	31.7	30.0	32.8	37.9	41.4	44.6	45.4	43.6	41.7	40.4	39.1	38.2	38.3
MEAN A	37.4	36.6	37.1	37.5	37.2	37.4	38.1	38.2	38.9	37.8	34.4	31.5	29.9	30.3	32.0	37.0	41.6	44.2	45.9	45.6	43.7	41.6	39.5	37.9	38.0
MEAN Q	37.7	38.1	38.2	38.7	38.5	37.6	38.4	38.7	38.0	36.9	34.2	32.4	30.6	30.3	32.9	38.2	41.9	44.1	45.8	45.0	43.1	41.5	39.6	38.4	38.3
MEAN D	37.5	33.9	35.8	38.0	36.4	36.9	36.8	37.3	40.4	38.3	32.7	30.3	30.7	33.6	33.1	36.9	40.2	42.9	45.5	46.4	44.5	42.4	39.8	37.8	37.8

VERTICAL INTENSITY

TABLE 21 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

JULY 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		512	505	500	477	460	481	472	459	459	483	484	483	479	480	483	479	481	483	490	499	501	495	493	495	485
2		498	496	489	492	490	489	484	476	470	460	466	473	477	479	477	473	477	473	472	481	487	493	501	502	482
3	D	499	495	482	488	482	463	436	394	379	469	482	483	489	491	483	486	489	490	494	494	497	496	496	495	477
4		494	491	489	487	481	473	464	433	433	463	473	479	476	475	476	478	482	483	488	499	498	497	495	498	479
5		495	488	482	476	470	482	486	483	482	470	477	487	486	489	489	489	488	487	488	488	487	491	494	494	485
6		492	488	487	485	484	477	472	481	485	481	481	483	486	486	481	481	482	481	485	487	493	495	493	492	485
7		488	486	486	485	482	481	469	461	453	464	481	482	482	483	482	481	480	482	493	497	493	490	493	488	482
8		487	486	486	480	481	470	464	470	471	470	475	479	477	470	464	460	461	467	475	472	474	481	482	485	475
9	Q	482	480	481	481	479	469	470	474	480	486	489	487	485	485	479	480	473	468	474	481	486	492	492	488	481
10	D	487	490	490	481	440	416	457	469	452	447	458	464	453	432	446	463	474	486	489	497	503	526	579	550	477
11		527	506	508	503	482	481	480	480	491	498	499	496	491	487	482	474	479	485	491	509	514	517	525	524	497
12		515	509	480	486	473	476	485	490	491	495	495	495	491	486	484	479	486	485	482	476	479	480	485	488	487
13	D	488	488	486	486	480	473	474	478	484	486	488	487	486	487	490	487	484	498	518	555	544	542	547	531	499
14	D	511	483	472	414	432	471	494	490	495	499	496	489	486	484	485	488	479	484	493	501	501	500	497	496	485
15		497	500	496	495	486	479	487	489	490	490	486	487	490	490	490	489	480	481	490	490	485	495	500	501	490
16		498	490	490	490	487	472	479	485	484	485	484	483	480	480	478	471	455	463	467	474	478	484	489	491	481
17		490	487	487	485	484	483	483	483	485	486	485	484	479	480	478	478	473	472	479	490	489	495	492	490	484
18		490	492	479	466	467	482	481	483	486	488	487	484	484	485	488	493	487	485	486	488	489	488	490	493	485
19		488	488	486	479	473	470	477	477	478	477	478	477	475	477	477	472	484	489	488	489	500	512	511	507	485
20	Q	500	495	488	484	483	484	484	484	485	489	489	486	482	479	480	477	474	478	481	485	491	494	493	493	486
21		489	488	485	485	484	484	484	484	480	484	489	484	484	483	478	477	475	477	477	482	489	500	479	502	484
22	D	500	489	482	489	487	472	465	467	425	409	432	459	471	474	477	483	484	481	482	491	499	506	505	500	476
23		495	490	489	481	475	465	441	430	439	482	487	484	483	482	479	489	491	489	491	495	493	494	495	493	481
24	Q	488	488	488	486	486	484	478	478	484	489	493	491	489	489	486	477	473	477	478	487	489	490	492	489	485
25		488	489	485	485	484	482	475	483	488	489	488	482	477	477	475	483	477	473	477	478	482	488	489	489	483
26		484	483	486	466	470	478	482	482	483	482	475	477	477	477	477	470	471	466	466	477	479	516	517	512	481
27		513	500	496	473	483	483	477	483	484	482	486	484	477	476	473	477	477	473	473	477	489	494	493	494	484
28		496	494	493	489	476	478	484	485	487	488	489	491	490	483	478	477	487	488	488	494	497	495	495	494	488
29	Q	495	491	492	490	485	473	477	484	484	487	488	487	484	482	478	478	472	470	477	479	484	488	490	489	483
30		489	489	489	485	487	486	487	485	485	488	489	488	488	489	489	495	489	483	483	489	498	506	502	501	490
31	Q	495	490	488	487	483	482	484	481	484	488	488	488	482	482	483	478	477	475	475	482	483	486	489	490	484
MEAN A		496	492	488	482	477	475	475	474	473	479	483	483	482	481	479	479	479	480	483	490	493	498	500	499	484
MEAN Q		492	489	487	485	483	478	479	480	483	488	490	488	485	483	481	478	474	473	477	483	487	490	491	490	484
MEAN D		497	489	483	471	464	459	465	460	447	462	471	476	477	474	476	481	482	488	495	508	509	514	525	514	483

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 22 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

AUGUST 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	820	820	816	819	820	820	820	817	815	812	810	808	803	792	782	778	778	789	807	817	827	829	821	819	810
2	Q	821	817	816	816	816	816	818	818	819	816	812	810	809	795	784	779	783	794	815	832	837	828	832	822	813
3		822	825	818	838	815	817	827	826	810	821	826	821	815	800	789	778	789	806	832	844	843	833	822	817	818
4		817	820	827	817	822	826	821	822	821	820	821	815	806	794	785	786	794	811	827	839	834	832	821	822	817
5		817	821	827	821	815	816	820	820	821	809	811	817	796	785	768	781	811	828	845	851	858	858	838	821	819
6		826	832	832	819	804	811	811	817	815	815	815	811	793	777	768	778	789	813	824	841	834	824	822	826	812
7		828	803	794	806	814	828	807	801	801	800	800	790	783	791	776	780	785	801	810	823	828	829	833	827	806
8		828	822	806	812	827	814	806	806	812	813	812	812	800	785	782	779	791	816	828	833	839	822	826	820	812
9		817	816	815	810	811	812	817	813	810	812	808	806	800	794	790	788	786	796	817	850	817	826	839	807	811
10		812	810	813	811	814	816	817	813	808	798	802	806	795	774	759	748	752	769	794	818	835	827	827	818	801
11		821	814	805	813	813	810	812	812	811	808	812	813	805	789	779	786	802	816	829	832	834	829	826	820	812
12		823	814	810	817	819	822	822	821	816	812	812	807	799	775	752	752	776	800	826	840	829	833	831	816	809
13		821	822	823	823	819	819	819	818	818	817	817	813	803	794	766	759	775	795	818	852	824	821	845	822	813
14	D	800	807	807	813	807	816	829	810	785	806	805	796	810	800	772	779	770	783	784	826	813	822	828	822	804
15	D	810	813	808	815	785	813	813	809	821	785	795	787	763	745	732	746	769	806	828	823	833	838	822	811	799
16	D	810	812	806	807	828	812	790	795	795	807	805	812	800	782	752	711	757	769	795	817	867	860	807	813	800
17	D	827	800	797	822	775	745	798	763	790	761	796	794	768	720	738	752	757	794	805	812	817	828	810	826	787
18		802	807	807	817	825	798	798	794	805	798	786	796	796	774	768	774	783	794	805	811	812	812	821	815	800
19		800	805	806	806	808	811	810	801	814	807	806	805	796	774	758	751	763	785	806	817	822	818	819	816	800
20		814	814	811	813	811	812	815	816	821	817	813	807	792	768	746	753	785	802	812	822	834	827	818	813	806
21		818	813	815	813	817	812	810	810	811	811	810	810	805	790	774	763	769	780	796	812	818	822	822	822	805
22		814	816	817	816	815	816	816	815	813	812	808	797	790	774	757	757	767	785	812	826	826	827	827	818	805
23		807	811	805	802	818	805	806	806	807	796	798	796	786	770	758	749	754	786	820	846	826	838	838	813	802
24	D	822	813	805	808	815	821	790	795	780	786	785	775	790	774	757	756	773	794	812	832	834	826	820	814	799
25		810	810	811	812	812	811	807	808	808	806	806	802	795	782	769	769	780	796	810	835	817	832	822	817	805
26		815	816	817	818	813	813	813	815	812	807	808	807	796	774	767	769	780	794	816	832	837	836	829	826	809
27		819	826	822	816	818	818	820	817	816	812	811	811	801	780	764	761	769	789	805	812	819	826	827	826	808
28	Q	827	823	823	822	823	817	820	819	817	821	817	805	787	768	763	774	795	812	823	826	829	826	826	812	812
29	Q	824	822	822	821	821	821	821	821	818	817	816	811	800	784	773	772	779	795	817	833	838	837	832	827	813
30	Q	827	827	821	822	822	821	821	817	815	814	812	809	800	788	774	774	787	799	814	831	839	837	830	831	814
31		832	832	827	832	828	818	826	831	833	833	821	811	795	778	763	758	779	789	811	807	816	811	806	806	810
MEAN A		818	816	814	816	815	813	814	811	811	808	808	806	797	780	767	765	778	796	814	829	830	830	825	819	807
MEAN Q		824	822	819	820	821	819	819	818	817	815	814	811	803	789	776	773	780	795	813	827	833	832	828	825	812
MEAN D		814	809	805	813	802	801	804	795	794	789	797	793	786	764	750	749	765	789	805	822	833	835	818	817	798

DECLINATION

TABLE 23 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

AUGUST 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	38.0	38.6	38.2	37.9	37.0	38.1	38.0	38.5	40.0	38.7	35.5	30.8	28.3	28.6	32.3	38.0	42.2	46.2	48.1	47.5	44.5	42.0	39.1	37.8	38.5
2	Q	37.6	37.9	37.9	37.9	37.5	38.2	38.2	38.2	38.2	36.9	35.6	35.5	30.7	30.4	33.6	39.4	45.1	47.6	46.8	45.1	41.1	39.1	36.8	35.8	38.4
3		36.1	35.9	35.0	33.6	36.7	34.7	34.9	32.5	36.0	31.5	30.3	27.4	26.1	25.6	29.5	37.6	44.8	50.4	49.4	45.7	41.3	39.3	37.8	36.9	36.2
4		37.8	38.1	38.2	39.0	38.1	34.8	38.8	38.5	37.7	37.3	34.9	32.5	30.5	31.4	34.5	40.2	43.8	45.8	45.8	44.4	41.0	39.2	39.0	37.2	38.3
5		39.2	38.5	39.0	39.1	35.6	36.7	37.8	37.1	36.9	40.1	41.2	30.7	27.5	31.9	32.6	41.0	45.6	48.6	47.8	47.6	44.7	42.1	41.3	40.1	39.3
6		40.2	40.0	34.7	29.4	36.4	37.1	36.7	35.6	34.9	33.5	31.4	29.5	28.0	28.3	31.5	37.7	43.3	45.8	46.4	45.5	44.2	43.6	41.8	39.3	37.3
7		36.9	31.6	32.4	36.9	38.0	36.2	35.7	35.9	37.7	35.7	30.4	28.7	35.2	33.8	33.6	39.2	41.0	43.4	45.5	45.2	43.4	41.4	39.0	38.0	37.3
8		30.5	28.4	34.6	38.2	42.3	37.0	41.3	46.8	41.3	33.9	32.6	30.7	29.8	30.9	35.9	41.4	45.2	47.4	50.1	44.7	43.1	41.2	39.3	38.3	38.5
9		38.6	37.1	33.7	38.8	39.1	37.3	39.9	37.1	36.8	35.6	32.6	30.5	30.5	29.8	32.4	36.8	41.9	48.5	49.7	45.8	44.6	40.1	37.2	37.0	38.0
10		39.0	35.6	38.1	39.1	38.7	39.1	39.5	39.2	38.2	39.1	37.9	32.4	29.5	29.3	31.9	35.7	41.2	45.8	48.8	47.5	44.4	42.5	40.1	39.1	38.8
11		38.0	35.0	36.1	37.8	37.1	39.1	39.5	36.8	36.0	34.9	33.5	30.7	29.6	30.6	33.7	38.3	42.4	44.6	45.4	44.5	42.8	40.6	39.0	39.0	37.7
12		39.0	38.0	39.6	39.2	38.5	38.0	37.8	38.8	36.7	36.1	34.8	32.6	31.1	31.8	35.6	41.4	47.6	50.0	50.6	48.9	46.3	42.3	39.3	38.8	39.7
13		39.1	38.8	38.2	38.1	37.6	37.5	37.6	36.9	36.6	35.9	33.9	30.5	27.6	26.4	26.1	33.8	42.4	49.5	49.8	46.5	44.6	41.3	38.1	36.5	37.6
14	D	32.7	33.0	22.6	32.4	34.8	32.9	38.7	36.6	42.1	44.4	36.4	35.9	37.0	31.6	32.6	41.5	41.1	42.7	48.5	46.5	44.3	41.1	35.0	35.7	37.5
15	D	36.4	35.1	31.7	34.7	32.5	33.6	35.5	41.2	37.8	42.4	38.4	31.1	28.2	32.5	32.4	39.8	45.4	48.5	48.5	47.5	45.7	41.0	41.2	39.2	38.3
16	D	33.6	32.6	39.0	38.5	37.1	39.7	38.0	39.0	41.3	39.2	36.8	30.4	29.1	30.4	35.3	44.3	45.2	43.3	44.4	45.0	40.2	35.8	40.8	39.2	38.3
17	D	22.3	35.6	36.8	22.8	32.3	41.1	38.6	45.4	41.2	47.2	37.9	31.9	33.6	42.2	46.3	45.9	44.1	45.4	43.2	42.4	41.0	36.8	38.7	36.8	38.7
18		33.8	38.9	38.4	35.0	34.5	34.9	39.0	41.8	42.1	35.4	35.8	32.5	28.4	32.1	34.9	42.0	45.2	45.2	43.0	43.1	42.2	39.2	37.9	36.7	38.0
19		33.3	35.5	37.8	35.9	40.9	39.9	37.8	43.4	44.2	40.0	40.0	33.0	28.4	27.8	32.0	37.8	43.2	47.4	47.4	46.2	43.2	41.0	39.0	38.5	38.9
20		38.9	38.9	38.3	38.6	37.9	38.6	37.9	37.7	38.0	35.9	34.7	32.2	31.0	30.2	33.6	42.4	46.4	46.4	46.2	45.2	42.1	40.9	39.6	37.4	38.7
21		36.0	37.0	37.8	37.8	37.7	36.7	37.8	38.9	38.9	36.8	34.7	31.8	30.3	31.2	34.9	42.1	48.2	51.8	52.8	51.5	46.4	42.0	39.1	38.5	39.6
22		39.3	39.7	39.1	38.4	38.1	37.9	37.6	37.0	36.5	35.7	33.5	30.6	26.8	28.2	33.5	40.1	46.4	50.7	51.0	47.5	43.1	39.9	35.9	34.7	38.4
23		36.9	38.3	37.7	38.6	37.7	36.7	38.9	40.9	38.1	34.7	33.4	29.2	27.6	29.3	34.9	43.1	48.7	50.0	51.7	51.3	45.6	41.9	40.9	40.1	39.4
24	D	41.0	39.4	35.7	38.8	38.6	42.2	38.9	35.5	40.8	42.7	34.5	34.5	27.2	27.0	33.7	40.9	46.1	47.4	48.5	46.5	44.4	42.3	39.9	39.0	39.4
25		38.9	38.9	38.3	38.3	38.1	39.0	38.6	37.8	37.7	36.7	35.0	32.2	30.2	30.6	33.5	38.0	42.2	45.3	46.4	46.0	44.2	41.9	39.0	38.6	38.6
26		38.6	38.1	38.1	38.0	38.8	38.1	37.8	37.3	37.0	36.7	33.5	31.5	30.2	31.4	36.6	43.1	47.3	49.6	50.5	48.3	43.9	40.8	38.6	37.8	39.2
27		38.8	37.9	37.7	34.9	38.4	38.3	37.7	37.8	36.7	36.3	34.4	32.7	30.4	30.5	33.3	38.1	44.1	47.5	48.0	47.3	45.1	42.1	39.1	38.3	38.6
28	Q	38.6	39.0	38.9	38.8	37.7	37.8	37.9	37.3	36.5	35.8	34.6	31.4	29.2	30.2	32.5	38.8	44.9	47.5	49.3	47.5	44.4	41.3	39.1	39.0	38.7
29	Q	38.9	38.6	37.8	38.1	38.1	37.9	37.7	37.3	36.7	35.9	34.6	31.6	29.1	29.4	33.5	39.7	44.6	48.2	48.5	46.4	43.5	40.9	38.9	38.8	38.5
30	Q	39.0	38.2	38.7	39.0	38.6	37.9	37.2	36.7	35.5	34.9	34.5	31.5	29.5	30.7	34.6	40.1	44.1	46.6	48.5	46.7	43.2	40.2	39.0	39.8	38.5
31		40.0	40.0	41.0	41.1	37.7	36.9	36.9	36.4	35.6	34.7	35.9	37.7	34.9	35.0	42.3	44.2	51.6	53.0	47.7	45.2	40.2	38.7	36.9	37.1	40.0
MEAN A		37.0	37.0	36.8	36.9	37.5	37.5	38.0	38.4	38.2	37.2	34.9	31.8	29.9	30.6	34.0	40.1	44.7	47.4	48.0	46.4	43.5	40.7	38.9	38.0	38.5
MEAN Q		38.4	38.5	38.3	38.3	37.8	38.0	37.8	37.6	37.4	36.4	35.0	32.2	29.4	29.9	33.3	39.2	44.2	47.2	48.2	46.6	43.3	40.7	38.6	38.2	38.5
MEAN D		33.2	35.2	33.1	33.4	35.1	37.9	38.0	39.5	40.6	43.2	36.8	32.8	31.0	32.7	36.1	42.5	44.4	45.5	46.6	45.6	43.1	39.4	39.1	38.0	38.4

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

VERTICAL INTENSITY

TABLE 24 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

AUGUST 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	486	485	483	482	481	480	480	481	477	475	481	487	487	482	482	482	475	472	475	475	482	490	493	488	482
2	Q	486	483	483	482	482	481	482	482	483	483	486	482	481	481	479	486	488	486	481	481	487	490	492	487	484
3		485	484	482	455	438	475	471	459	464	483	493	493	486	478	474	471	474	475	477	483	487	491	491	486	477
4		483	482	483	482	485	475	481	482	483	487	487	488	490	493	493	482	475	476	480	483	487	491	487	487	484
5		481	482	482	481	470	478	483	484	483	480	463	469	470	471	463	464	468	470	474	478	485	493	492	483	477
6		481	481	481	481	481	486	482	487	487	485	486	482	480	475	475	475	475	470	471	481	489	487	483	487	481
7		499	490	487	495	488	457	465	481	482	481	482	482	475	466	464	463	457	468	475	481	487	487	491	487	479
8		493	475	482	485	456	453	447	440	453	481	486	486	483	481	481	475	470	470	475	482	491	492	493	493	476
9		497	498	482	485	487	483	480	481	486	487	487	486	482	474	466	463	469	475	475	492	491	492	498	498	484
10		493	491	487	486	485	481	471	475	481	482	486	488	486	480	475	471	478	485	486	490	494	493	498	494	485
11		493	491	493	493	488	483	475	486	487	489	493	493	494	496	487	475	470	465	470	475	481	483	484	482	484
12		485	487	487	485	483	482	481	480	482	486	484	485	482	486	477	469	473	474	481	489	493	491	488	482	483
13		481	482	483	484	482	481	482	482	482	483	487	487	486	481	475	474	476	478	480	493	496	494	502	508	485
14	D	522	505	494	477	476	459	446	451	435	441	451	471	461	472	472	475	475	479	487	498	498	509	518	518	479
15	D	505	498	487	462	437	462	471	415	440	463	474	477	480	480	475	474	484	493	504	503	509	521	519	511	481
16	D	509	486	490	486	449	430	441	422	456	474	482	488	486	476	467	474	480	490	521	516	554	572	521	503	486
17	D	518	494	496	467	422	390	450	437	468	446	463	479	470	452	452	469	484	501	502	506	509	520	503	509	475
18		503	493	492	480	446	440	457	434	428	452	476	474	479	482	482	486	481	486	494	502	452	459	452	449	470
19		504	498	496	491	479	474	480	473	469	463	469	478	479	476	480	479	479	480	490	494	500	498	496	493	484
20		491	491	490	491	488	487	488	488	486	485	488	489	490	490	489	487	488	492	492	497	505	504	498	497	491
21		492	490	488	486	480	477	482	480	483	488	490	490	488	490	490	485	477	474	479	482	485	491	492	491	485
22		485	485	486	484	482	485	485	486	485	486	486	486	486	486	482	482	489	488	488	491	492	492	500	502	487
23		497	498	498	486	440	469	486	486	480	487	494	493	490	487	486	492	485	485	487	497	504	509	508	502	489
24	D	497	505	509	497	486	452	413	463	464	467	475	470	482	490	490	493	498	492	496	498	504	503	502	497	485
25		492	491	488	486	485	485	486	486	487	488	491	487	487	485	479	474	477	482	484	492	491	491	491	487	486
26		485	485	485	484	484	484	485	485	483	483	489	490	487	485	483	478	463	467	478	485	491	493	491	489	484
27		487	486	482	478	484	484	484	482	485	485	491	491	490	485	484	480	479	479	480	489	490	488	486	484	485
28	Q	483	484	484	484	483	479	484	484	484	484	486	487	484	479	478	474	475	478	483	486	485	489	487	484	483
29	Q	484	484	483	483	483	483	482	482	482	482	484	484	479	478	476	473	477	483	488	495	495	489	484	483	483
30	Q	482	482	482	482	480	481	481	482	482	481	483	487	487	486	483	479	481	485	487	486	483	483	482	479	483
31		479	481	483	483	474	484	484	483	482	480	483	477	466	465	470	472	483	493	507	519	525	517	503	497	487
MEAN A		492	489	487	483	473	471	473	472	474	478	482	484	482	480	478	477	478	480	485	491	494	497	494	492	483
MEAN Q		484	484	483	483	482	481	482	482	481	481	484	485	484	481	480	479	479	481	483	485	487	488	488	484	483
MEAN D		510	498	495	478	454	438	444	438	452	458	469	477	476	474	471	477	484	491	502	504	515	525	513	508	481

HORIZONTAL INTENSITY

TABLE 25 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

SEPTEMBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		809	798	803	800	807	806	802	812	812	808	803	807	800	790	774	769	773	790	810	825	830	835	824	816	804
2		813	818	818	818	819	820	824	824	819	830	818	817	808	781	763	769	775	797	818	841	846	845	834	825	814
3		823	824	825	825	819	819	818	813	812	801	813	804	801	784	767	752	752	786	807	839	824	809	812	818	806
4		808	812	823	835	817	815	812	806	818	808	808	781	788	786	758	748	775	788	801	817	820	830	829	825	805
5		823	823	823	817	823	828	807	807	821	812	816	805	780	757	753	753	768	784	806	813	823	819	827	817	804
6		817	817	817	822	815	801	812	801	814	813	812	805	789	769	763	763	773	778	801	819	859	842	848	823	807
7		812	806	812	813	811	812	812	816	818	818	816	806	795	784	765	753	759	789	812	838	856	852	834	834	809
8	D	824	820	806	785	773	713	704	719	649	663	697	728	714	735	726	687	708	742	777	780	799	806	807	811	749
9		795	801	791	797	809	818	802	804	806	806	801	796	784	769	746	745	750	769	791	812	822	827	822	814	795
10		812	807	806	802	807	813	810	812	816	822	812	805	801	776	753	742	755	772	795	812	823	823	822	817	801
11		812	807	801	806	817	811	817	816	816	817	817	811	795	778	768	765	768	782	801	822	829	834	829	822	806
12		823	823	818	806	797	803	802	806	807	802	817	815	795	780	730	768	767	758	783	807	817	842	812	812	800
13	D	788	786	790	789	788	730	768	806	812	817	816	769	781	780	747	726	741	769	772	785	807	812	797	811	783
14	D	794	791	822	771	794	805	800	806	811	795	769	785	769	753	758	752	746	766	777	793	807	800	809	818	787
15	D	812	819	818	799	814	805	784	786	816	817	818	798	785	791	765	728	770	774	785	800	805	816	807	806	797
16		822	817	820	829	812	801	801	805	807	807	807	805	795	774	764	761	774	789	808	817	824	816	817	817	804
17		822	823	827	814	817	818	816	811	817	813	813	811	800	789	779	778	785	797	809	822	823	817	816	817	810
18	Q	816	815	815	816	817	817	817	822	823	823	822	816	801	788	778	779	785	801	812	817	817	818	822	823	811
19		823	824	829	817	811	805	800	811	800	818	812	800	784	769	768	782	798	817	828	828	828	822	823	808	808
20		823	822	817	807	810	817	817	817	818	818	817	814	806	791	780	780	785	797	812	814	818	833	818	823	811
21		824	823	826	824	824	822	802	807	817	817	817	812	797	800	789	775	774	803	818	832	816	823	827	828	812
22		834	821	823	824	824	824	821	821	819	823	820	815	808	801	787	786	800	813	824	830	834	830	802	807	816
23	D	823	808	795	790	795	808	808	813	804	796	807	806	796	775	737	738	796	806	808	807	807	808	815	814	798
24	Q	814	813	817	818	817	818	818	818	818	818	815	813	804	791	780	775	781	793	807	809	808	818	821	822	809
25	Q	823	823	821	820	820	823	823	823	823	823	823	820	815	802	786	770	775	786	802	817	825	829	829	829	814
26	Q	828	825	825	824	824	825	828	825	828	833	834	830	819	804	786	770	775	783	795	807	817	824	829	834	815
27	Q	834	833	831	830	829	823	825	829	830	829	827	825	817	803	786	773	772	781	796	807	817	825	830	835	816
28		833	828	828	830	830	830	831	829	830	835	830	824	820	807	786	770	775	791	807	819	833	825	836	836	819
29		835	829	829	829	824	829	824	823	824	825	825	824	818	806	790	780	769	784	796	809	818	816	834	835	816
30		830	833	830	829	829	829	830	830	829	828	825	823	817	813	802	792	792	807	824	834	824	824	823	824	822
MEAN A		818	816	817	813	813	810	808	811	811	811	811	806	797	785	768	760	770	786	802	816	822	824	822	821	805
MEAN Q		823	822	822	822	822	821	822	824	824	825	824	821	811	798	783	773	777	789	802	811	817	823	826	829	813
MEAN D		808	805	806	787	793	772	773	786	778	778	781	777	769	767	747	726	752	771	784	793	805	809	807	812	783

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

DECLINATION

TABLE 26 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

SEPTEMBER 1968

DAY	HOUR																								MEAN
	UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	36.8	33.5	33.0	36.5	35.5	35.5	37.7	39.2	39.0	40.1	42.7	35.6	32.6	33.6	34.7	39.7	43.2	44.4	44.1	42.2	39.9	38.1	37.0	37.7	38.0
2	37.9	38.5	38.6	39.0	39.0	38.9	39.0	38.7	40.2	37.9	33.9	35.4	30.4	32.5	35.4	41.0	46.3	48.7	48.1	44.2	41.1	38.9	38.9	40.2	39.3
3	41.8	39.8	33.6	40.1	39.1	38.9	36.6	34.7	32.5	30.4	30.6	24.8	27.4	28.6	32.5	38.4	50.0	51.4	48.8	47.5	44.5	41.7	38.2	37.7	37.9
4	36.0	37.1	38.3	38.9	40.9	41.2	39.1	42.0	38.2	34.7	35.9	36.2	36.8	33.8	37.8	41.5	47.2	49.1	48.6	46.2	42.2	39.0	35.6	38.9	39.8
5	39.7	38.9	38.6	39.0	40.2	42.2	36.6	38.3	35.9	33.8	34.7	32.5	31.5	30.3	33.6	39.8	45.4	47.5	46.7	45.4	43.5	41.0	39.8	39.4	38.9
6	30.6	37.8	37.8	38.2	37.1	47.6	38.8	38.8	36.8	34.8	33.8	31.5	29.4	30.6	32.9	40.1	44.2	48.5	48.9	46.7	46.5	49.9	45.4	43.3	39.6
7	43.8	40.1	40.0	40.1	40.2	39.8	38.1	36.9	35.9	35.1	33.8	30.7	28.7	30.3	31.7	37.8	45.7	49.5	51.7	51.8	50.0	46.9	44.7	40.1	40.1
8	D 41.1	36.9	39.4	38.0	39.2	55.0	35.1	35.6	38.0	38.4	35.9	30.5	37.9	34.5	41.1	43.6	49.8	53.0	50.9	47.8	43.0	39.4	38.0	36.9	40.8
9	34.6	32.6	35.6	37.2	33.7	38.1	37.9	38.0	36.8	37.2	37.0	33.7	33.0	32.4	35.9	41.3	46.8	48.9	49.5	45.6	42.3	40.9	40.0	40.1	38.7
10	39.1	39.1	39.8	38.8	38.1	39.0	38.8	38.0	36.8	35.7	35.4	34.9	31.6	31.7	34.9	41.5	49.7	52.8	48.7	45.4	41.3	38.3	38.0	38.3	39.4
11	38.4	37.0	36.7	37.2	35.5	36.8	37.8	36.8	36.9	37.0	35.9	32.9	31.4	31.6	34.6	39.9	44.4	46.8	47.3	44.7	41.4	39.1	38.0	39.4	38.2
12	39.9	39.4	38.2	35.1	36.7	35.9	38.6	41.3	31.4	28.3	28.9	28.4	30.7	34.7	39.3	49.7	47.3	47.8	47.8	45.3	43.2	40.8	38.8	36.9	38.5
13	D 27.2	31.4	35.9	35.5	32.1	42.3	43.2	30.9	33.9	34.0	33.0	41.1	39.9	42.2	37.8	41.4	51.8	45.7	48.6	44.2	41.2	40.1	38.0	37.2	38.7
14	D 36.2	32.1	34.8	31.7	33.5	37.8	41.5	46.4	35.6	31.7	42.3	41.1	38.0	40.1	41.1	43.3	46.2	45.8	45.6	44.6	43.3	42.5	40.3	39.1	39.8
15	D 34.8	32.7	26.0	35.9	45.6	35.9	40.2	44.3	36.2	31.7	33.5	34.5	35.9	37.3	34.8	45.4	45.5	45.6	44.7	45.1	42.5	41.1	40.0	34.8	38.5
16	35.9	38.2	36.1	39.8	40.1	39.4	38.0	36.1	35.9	36.7	36.9	36.7	35.9	35.3	38.0	42.6	45.4	46.4	45.8	44.4	42.9	41.1	40.1	40.2	39.5
17	38.1	39.0	39.0	40.0	42.1	40.1	39.9	41.3	37.9	36.2	37.2	36.0	35.6	35.5	37.2	41.1	43.3	44.3	44.4	43.3	40.5	38.8	38.0	39.0	39.5
18	Q 39.3	39.3	39.8	39.9	39.1	39.1	39.0	38.1	37.2	36.9	36.5	35.0	34.5	34.8	36.9	41.3	44.5	46.5	45.6	42.6	40.1	39.1	39.2	39.4	39.3
19	39.4	39.9	39.0	39.9	33.6	35.6	37.0	29.9	31.7	37.1	35.0	33.8	32.7	33.7	35.9	42.2	46.5	47.1	46.5	44.4	41.1	39.1	39.1	39.8	38.3
20	40.3	39.9	40.0	41.3	38.3	39.1	38.6	37.9	37.1	36.9	36.7	34.9	34.1	34.6	36.2	40.5	42.3	44.3	45.2	44.3	42.3	40.3	40.5	41.1	39.4
21	40.3	40.1	40.1	39.7	37.8	36.9	32.4	34.6	34.9	36.8	36.0	34.6	32.5	37.1	35.9	42.1	45.6	48.5	44.7	43.6	41.2	39.6	39.8	40.1	39.0
22	40.8	40.8	40.1	39.3	38.4	37.9	37.7	35.8	34.5	34.8	34.5	33.5	35.8	35.5	37.8	42.1	45.2	44.3	44.3	43.2	42.2	41.1	40.0	40.4	39.2
23	D 40.0	36.9	28.3	36.2	43.3	38.7	39.7	37.6	35.6	44.1	36.8	33.6	32.5	36.8	43.9	48.9	48.3	45.5	44.3	42.2	40.0	39.2	39.3	39.3	39.6
24	Q 38.3	38.5	39.3	39.8	39.0	39.0	38.1	37.9	37.6	37.0	36.8	35.0	33.5	32.9	34.9	39.1	43.2	45.5	45.4	44.3	42.4	40.2	39.9	39.4	39.0
25	Q 39.1	39.0	39.2	39.1	39.0	38.7	38.6	38.1	37.9	37.9	37.8	35.9	34.5	33.5	33.4	35.8	40.1	44.3	45.5	44.6	43.2	41.1	39.9	39.2	39.0
26	Q 38.7	38.0	39.0	38.1	38.6	38.2	38.0	38.7	38.6	37.6	37.4	35.8	32.5	30.6	30.3	35.0	41.2	44.4	46.4	46.0	44.3	42.2	40.9	39.9	38.8
27	Q 39.8	39.2	39.0	38.9	36.5	37.0	36.8	38.0	37.8	37.7	37.0	35.8	33.4	31.8	32.6	35.9	40.1	43.2	45.1	44.5	43.2	41.2	40.0	39.2	38.5
28	39.1	39.1	37.9	39.0	38.9	39.0	38.9	38.9	37.7	36.7	36.0	33.5	30.6	31.4	37.7	42.8	47.5	47.6	46.4	44.0	41.6	40.1	39.9	39.3	39.3
29	39.9	36.9	38.4	39.2	38.9	37.8	36.8	36.6	35.8	35.7	34.9	33.7	32.4	31.0	31.4	35.5	39.7	44.4	46.2	45.6	44.4	43.0	41.0	40.5	38.3
30	39.9	39.8	39.8	39.6	39.0	38.8	38.3	37.8	37.6	36.8	36.9	35.9	34.7	33.8	32.7	35.4	41.4	43.0	44.1	44.4	45.4	44.2	44.2	42.0	39.4
MEAN A	38.2	37.7	37.4	38.4	38.3	39.3	38.2	37.9	36.4	36.0	35.8	34.3	33.4	33.7	35.5	40.6	45.1	46.8	46.7	45.0	42.8	41.0	39.8	39.3	39.1
MEAN Q	39.0	38.8	39.2	39.2	38.4	38.4	38.1	38.2	37.8	37.4	37.1	35.5	33.7	32.7	33.6	37.4	41.8	44.8	45.6	44.4	42.7	40.8	40.0	39.4	38.9
MEAN D	35.9	34.0	32.9	35.4	38.7	41.9	40.0	39.0	35.9	36.0	36.3	36.2	36.8	38.2	39.7	44.5	48.3	47.1	46.8	44.8	42.0	40.5	39.1	37.5	39.5

VERTICAL INTENSITY

TABLE 27 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

SEPTEMBER 1968

HOUR UT DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	495	491	491	490	478	481	478	478	479	472	461	461	467	466	469	474	480	489	496	497	496	496	491	488	482
2	487	486	486	485	485	484	482	481	473	460	461	473	470	471	468	471	475	483	494	501	496	495	489	488	481
3	486	488	487	482	482	482	480	491	488	482	482	479	479	478	475	473	476	486	492	504	506	511	498	490	487
4	491	490	482	470	460	471	485	481	480	469	475	472	480	471	469	475	475	481	486	491	492	493	491	482	480
5	480	481	481	483	482	459	456	479	480	480	485	486	479	481	476	476	480	485	493	496	499	499	496	493	483
6	491	486	484	471	474	462	451	465	475	480	481	481	479	475	474	479	475	476	480	485	496	508	527	527	483
7	526	505	486	481	482	486	485	485	483	482	484	484	480	478	474	476	484	493	498	509	517	527	550	569	497
8	D 580	595	574	479	492	409	405	427	376	392	413	450	417	445	462	486	515	542	549	520	513	507	498	497	481
9	501	501	500	494	473	472	486	490	485	485	485	479	480	484	482	485	491	497	502	503	502	496	488	485	489
10	486	487	486	481	484	485	485	485	485	484	483	482	479	474	473	474	474	479	490	496	496	490	487	485	484
11	485	485	481	484	472	473	480	483	483	483	484	485	485	484	484	480	476	480	488	491	492	491	485	481	483
12	482	480	479	479	482	478	466	443	455	466	468	468	472	468	470	467	470	478	494	510	502	512	505	511	479
13	D 524	496	494	490	476	389	389	455	481	485	479	450	432	443	454	462	472	483	500	512	503	500	501	505	474
14	D 504	469	428	461	482	483	443	401	441	454	443	443	455	466	471	477	473	482	489	496	505	511	501	496	470
15	D 496	488	466	460	436	450	449	428	460	475	479	476	475	470	472	468	473	477	496	494	487	490	490	494	473
16	488	485	478	448	445	461	468	477	477	476	479	479	482	484	484	482	479	477	479	483	485	484	484	484	477
17	484	477	471	476	477	477	479	477	475	479	483	479	481	484	486	485	479	483	489	490	489	486	484	483	481
18	Q 483	482	482	480	478	480	483	482	480	479	480	482	480	482	483	484	487	491	491	494	490	484	484	484	483
19	483	481	479	468	437	470	469	470	478	463	474	479	482	483	483	479	480	483	484	489	484	484	483	483	477
20	483	482	483	469	480	483	483	482	480	480	480	481	479	478	477	478	479	478	484	490	489	490	482	482	481
21	480	480	479	480	479	468	455	476	479	480	482	481	479	472	466	470	477	482	483	490	489	484	482	483	478
22	483	484	483	480	480	480	478	480	480	480	479	481	477	468	468	471	473	479	483	486	490	501	503	500	482
23	D 488	490	476	471	468	476	476	472	466	443	459	477	476	473	473	484	487	484	484	484	484	484	485	484	477
24	Q 484	484	483	483	482	480	481	481	481	480	479	479	480	479	476	472	474	483	489	490	486	484	484	483	481
25	Q 483	480	479	479	478	478	478	478	478	478	479	480	482	479	477	481	483	481	488	491	490	490	486	483	482
26	Q 480	479	479	479	479	478	478	473	474	475	478	479	478	477	474	473	473	472	477	478	477	478	479	478	477
27	Q 478	478	478	478	477	475	478	479	478	477	477	478	478	477	473	468	465	461	471	477	478	479	479	478	476
28	477	477	478	477	477	476	476	476	476	473	474	478	476	473	472	468	465	466	474	482	482	479	479	478	475
29	479	482	479	479	478	459	462	473	474	473	474	477	477	477	473	470	466	472	478	482	482	483	482	479	475
30	478	477	477	477	476	475	476	476	476	475	473	472	472	472	469	466	467	468	477	482	482	485	489	492	476
MEAN A	491	488	483	477	474	469	468	471	473	472	474	475	474	474	474	475	477	482	489	493	493	493	492	492	480
MEAN Q	482	481	480	480	479	478	480	479	478	478	479	480	480	479	477	476	476	478	483	486	484	483	482	481	480
MEAN D	518	508	488	472	471	441	432	437	445	450	455	459	451	459	466	475	484	494	503	501	498	499	495	495	475

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 28 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

OCTOBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1		809	809	800	785	809	810	813	812	810	808	816	813	803	793	787	783	782	783	797	806	819	816	819	819	804	
2	D	824	788	793	799	782	717	762	799	804	797	723	787	791	756	759	770	778	785	778	792	802	809	793	803	783	
3		806	779	777	794	794	755	789	753	767	747	794	811	798	789	784	783	786	793	804	811	814	812	811	811	790	
4		814	812	810	809	808	808	809	810	810	810	811	808	799	784	772	762	770	782	793	805	811	814	816	817	802	
5	Q	816	815	816	815	815	815	814	810	810	810	817	810	796	783	771	767	772	789	805	814	815	815	815	818	805	
6		820	820	820	821	820	820	826	832	832	828	827	826	815	799	787	780	792	801	812	816	823	826	827	825	816	
7		827	827	827	814	821	826	828	820	821	821	818	815	805	792	782	778	788	806	815	805	810	805	816	811	812	
8		803	816	819	812	816	816	822	822	826	822	822	818	811	800	784	764	768	779	793	800	806	814	818	818	807	
9		826	812	811	810	816	819	821	822	823	824	827	827	821	806	784	775	775	784	806	816	833	827	817	812	812	
10		811	827	822	823	823	826	827	818	821	821	827	828	822	806	791	784	784	790	800	811	818	824	828	833	815	
11	Q	834	833	831	831	829	829	832	833	831	832	830	830	823	812	801	795	791	801	815	826	829	834	837	838	824	
12	D	838	806	796	791	779	779	800	773	801	823	821	806	801	805	794	785	779	763	725	794	768	789	789	784	791	
13	D	795	794	790	801	778	778	795	769	783	788	818	823	795	785	762	758	763	769	789	804	812	812	799	800	790	
14		811	819	817	806	793	800	807	806	811	817	818	816	800	795	785	759	759	774	791	800	808	806	812	822	801	
15		823	823	822	822	819	819	819	820	819	816	823	823	816	800	785	770	772	785	802	812	816	816	816	823	828	811
16		828	827	823	823	819	822	817	817	823	824	828	827	817	807	791	785	795	806	813	822	828	827	830	834	818	
17		834	832	827	823	824	822	818	821	824	825	825	823	816	802	781	771	776	780	791	812	822	813	828	828	813	
18		827	828	828	823	823	823	823	824	822	818	823	823	817	807	794	780	780	785	797	815	821	831	827	823	815	
19		829	828	829	828	828	828	828	829	832	829	834	832	823	817	801	787	791	796	817	825	801	816	812	812	819	
20		819	822	823	823	822	822	823	822	822	817	822	822	812	796	788	783	777	784	801	812	818	819	823	827	812	
21	Q	828	828	828	827	827	827	827	827	826	824	826	824	814	796	779	765	769	775	796	812	819	827	828	828	814	
22	Q	829	831	832	832	830	828	828	828	829	829	828	827	816	796	773	756	759	770	791	803	817	828	833	834	814	
23	Q	834	834	834	833	832	832	834	834	834	834	834	833	820	796	773	766	769	779	795	816	824	834	839	842	819	
24		843	840	843	841	844	838	834	835	834	834	834	834	824	809	792	795	800	811	812	812	816	820	822	825	825	
25		824	828	829	829	832	823	828	827	827	827	832	832	818	795	784	776	773	780	796	807	817	822	828	829	815	
26		830	832	832	832	831	830	829	829	828	827	833	829	819	802	790	781	780	791	813	827	839	841	846	845	822	
27		829	834	834	829	828	829	824	823	829	834	832	832	824	801	786	791	795	799	807	816	822	828	833	832	820	
28		832	834	834	832	831	830	838	834	835	839	839	834	821	811	807	801	806	813	824	830	840	839	828	828	828	
29	D	811	822	828	829	829	827	829	835	836	849	850	853	844	834	823	810	785	755	806	832	824	796	802	805	821	
30		813	816	819	822	816	813	813	813	814	814	812	816	801	781	778	781	785	783	795	802	807	817	811	817	806	
31	D	812	796	789	794	780	774	732	740	780	823	760	769	829	703	455	566	653	674	728	738	807	757	743	763	740	
MEAN A		822	820	819	818	816	812	816	814	818	820	819	821	814	796	775	771	776	782	797	809	816	817	818	820	809	
MEAN Q		828	828	828	828	827	826	827	826	826	826	827	825	814	797	780	770	772	783	800	814	821	827	830	832	815	
MEAN D		816	801	799	803	789	775	783	783	801	816	794	808	812	776	719	738	752	749	765	792	803	793	785	791	785	

DECLINATION

TABLE 29 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

OCTOBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		39.0	35.3	32.7	41.1	38.0	38.5	37.8	37.3	36.7	37.5	34.7	33.5	32.3	31.4	34.9	37.7	39.2	43.9	46.5	47.0	45.2	43.4	43.2	42.9	38.7
2	D	44.1	36.7	31.6	39.9	34.6	36.0	29.4	34.5	34.3	32.3	46.5	38.0	37.8	33.5	44.2	45.1	46.4	44.0	45.1	43.4	41.9	41.3	39.8	36.8	39.0
3		37.8	18.6	34.5	39.2	37.7	42.2	33.5	32.5	32.5	40.8	42.1	35.7	34.7	36.7	36.7	39.0	41.9	43.1	42.5	41.6	40.8	40.0	40.0	40.0	37.7
4		40.0	40.0	39.9	40.0	39.9	39.5	38.9	38.5	38.4	38.2	38.2	37.1	35.7	33.9	34.6	38.8	42.1	45.3	45.4	44.6	42.8	41.0	40.4	40.0	39.7
5	Q	39.9	39.9	39.9	39.8	39.7	39.8	38.6	37.8	36.5	37.0	37.0	35.8	33.6	33.1	33.8	38.6	42.1	44.4	43.5	42.1	40.3	39.5	39.9	39.9	38.9
6		39.8	39.9	39.6	39.7	39.7	39.6	39.1	38.5	36.9	35.4	36.5	35.7	33.4	32.1	32.9	37.6	43.9	47.1	47.4	46.0	43.0	40.2	39.6	39.0	39.3
7		38.7	35.9	38.5	37.5	37.7	39.0	36.9	36.9	38.7	38.4	38.8	36.8	34.5	33.4	33.4	37.9	41.1	44.1	46.3	48.5	47.3	43.7	39.7	39.8	39.3
8		34.5	38.7	38.9	38.8	39.8	38.7	40.7	38.9	38.9	37.4	36.7	36.9	33.8	32.4	32.9	36.8	40.9	43.3	45.2	45.3	44.3	43.0	40.9	39.9	39.1
9		36.8	38.8	33.5	36.3	38.5	38.9	38.8	38.5	37.7	37.6	37.2	36.1	34.2	32.6	33.5	38.0	39.7	44.3	45.0	44.3	44.0	42.1	41.2	39.9	38.6
10		39.2	34.7	38.8	39.0	38.9	38.0	35.7	36.8	37.6	39.7	38.7	36.4	34.5	32.8	33.2	35.7	38.5	41.0	43.0	43.9	43.9	42.9	41.9	40.8	38.6
11	Q	39.9	39.7	39.7	39.5	39.5	39.0	38.8	37.7	36.7	36.7	36.4	34.5	33.8	33.4	35.7	40.2	44.1	45.8	45.3	44.1	42.8	40.9	39.9	39.2	
12	D	39.7	37.3	37.8	33.4	32.4	33.6	42.0	39.8	37.5	31.2	37.6	37.6	36.6	38.1	38.8	40.0	42.1	44.3	47.3	47.3	45.9	46.4	42.2	39.0	39.5
13	D	34.5	36.9	32.2	35.6	36.7	42.9	35.3	42.9	46.4	44.1	44.1	41.9	40.6	38.8	35.7	36.8	40.2	41.6	44.1	45.2	45.7	43.3	39.5	39.9	40.2
14		39.7	37.7	37.6	38.0	38.7	37.0	37.7	38.0	39.8	37.5	38.5	37.7	36.6	34.8	33.7	35.6	39.9	44.4	44.9	44.0	44.1	42.2	37.8	39.8	39.0
15		39.3	39.7	39.7	39.6	38.8	38.7	38.2	38.9	36.7	37.7	40.0	37.7	35.6	33.7	34.3	36.5	40.7	45.2	45.6	44.5	42.9	41.6	40.9	39.9	39.4
16		39.7	39.1	39.0	37.9	38.9	39.0	38.8	42.9	39.2	36.5	37.7	37.6	34.8	34.7	35.6	38.8	41.8	43.9	45.2	45.2	43.9	42.1	40.9	40.0	39.7
17		39.0	37.8	39.9	38.5	37.6	37.7	38.5	37.8	36.7	37.8	38.8	37.7	34.5	31.7	32.0	34.7	38.8	42.1	44.4	45.2	45.2	43.7	42.7	43.1	39.0
18		42.2	39.8	37.7	37.7	38.2	37.9	37.8	36.6	36.2	36.6	38.0	37.7	35.6	33.1	33.5	36.4	39.8	43.4	45.2	44.9	43.7	42.1	41.1	38.8	38.9
19		39.7	39.0	39.8	39.0	38.8	38.1	37.7	37.7	37.8	37.7	37.4	36.3	37.5	33.3	31.3	34.8	38.8	42.3	44.8	47.1	49.5	46.4	43.4	42.0	39.6
20		40.7	39.6	38.8	39.1	38.7	38.8	37.7	42.0	38.9	34.6	39.5	36.7	34.5	33.3	33.5	36.5	41.0	45.1	45.0	43.0	42.0	41.1	40.9	40.0	39.2
21	Q	39.7	39.0	39.0	39.0	39.0	38.8	38.8	38.5	37.8	37.7	37.6	36.2	33.6	31.9	32.2	35.6	40.4	44.0	44.2	43.3	41.1	39.9	40.0	39.8	38.6
22	Q	39.7	39.1	38.9	38.8	38.8	38.9	38.8	38.5	38.4	38.2	38.1	36.8	33.5	31.4	31.5	34.6	39.5	44.5	45.5	45.0	43.0	41.2	40.7	39.7	38.9
23	Q	39.1	38.8	38.8	38.8	38.8	38.9	38.9	38.8	38.4	37.8	37.7	36.6	34.1	31.5	32.0	35.6	40.0	44.1	45.3	45.4	44.1	42.2	40.9	39.7	39.0
24		38.9	38.8	38.7	38.5	37.7	37.7	37.7	37.6	37.4	36.6	36.5	36.5	33.4	31.6	33.2	38.5	41.8	46.3	49.5	49.8	45.3	43.8	40.8	39.7	39.4
25		38.8	38.5	38.0	37.7	37.5	37.5	36.7	37.7	38.5	35.6	35.9	36.7	35.3	34.2	35.9	38.7	42.1	45.0	46.1	45.4	44.1	42.1	40.6	39.7	39.1
26		38.7	38.5	38.0	38.0	38.8	39.0	38.8	39.7	38.9	39.6	36.7	35.2	32.9	31.5	33.4	37.6	40.9	44.1	45.7	46.4	45.2	42.7	41.8	42.3	39.3
27		39.8	38.8	38.8	38.8	38.8	38.5	38.4	42.2	40.0	36.6	36.6	35.7	33.4	30.4	33.4	37.8	40.7	42.9	45.0	44.9	42.9	41.9	41.0	39.9	39.0
28		39.6	39.1	39.0	39.0	38.8	38.8	37.8	36.5	38.4	37.7	37.2	36.6	34.4	31.6	32.0	36.6	39.8	43.0	43.9	43.3	42.1	41.1	41.6	39.6	38.6
29	D	39.0	38.7	38.1	38.4	38.7	36.9	35.7	36.7	37.7	36.3	34.6	35.2	31.4	31.3	32.8	34.6	34.5	53.5	53.6	49.5	46.3	42.0	42.0	40.0	39.1
30		38.9	39.4	39.6	39.8	40.6	40.8	40.6	39.8	40.9	40.9	45.7	40.6	40.8	46.3	40.9	41.2	43.1	45.2	45.3	43.1	40.2	40.7	40.0	35.6	41.2
31	D	38.4	38.4	39.4	36.6	40.0	35.6	36.6	37.5	33.4	36.6	45.6	58.4	35.6	34.5	54.7	48.8	39.3	56.6	48.6	49.6	46.3	44.3	43.4	41.6	42.5
MEAN A		39.2	37.8	37.9	38.5	38.4	38.5	37.8	38.3	37.9	37.4	38.6	37.5	34.9	33.7	35.0	37.8	40.7	44.7	45.6	45.3	43.9	42.3	41.0	40.0	39.3
MEAN Q		39.7	39.3	39.3	39.2	39.1	39.1	38.8	38.3	37.6	37.5	37.4	36.4	33.9	32.3	32.6	36.0	40.4	44.2	44.9	44.2	42.5	41.1	40.5	39.8	38.9
MEAN D		39.1	37.6	35.8	36.8	36.5	37.0	35.8	38.3	37.8	36.1	41.7	42.2	36.4	35.2	41.2	41.1	40.5	48.0	47.7	47.0	45.2	43.4	41.4	39.5	40.1

VERTICAL INTENSITY

TABLE 30 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

OCTOBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		501	520	502	462	482	482	483	481	477	465	458	474	477	474	473	476	472	477	483	489	489	493	493	498	482
2	D	508	496	471	489	481	420	429	495	490	472	386	375	407	444	463	466	471	477	489	495	489	495	495	499	467
3		494	454	460	425	468	380	421	392	364	347	401	467	478	482	484	483	484	483	480	484	486	487	486	484	453
4		484	483	482	482	483	483	484	483	483	483	483	484	485	484	482	484	490	496	496	495	490	490	488	485	486
5	Q	484	483	483	483	483	483	482	477	473	476	479	484	486	490	489	485	484	486	490	491	490	485	483	484	484
6		484	484	483	483	483	480	480	480	475	475	478	480	480	479	474	467	466	472	475	480	484	485	484	482	479
7		480	479	479	479	483	477	473	480	481	481	480	482	482	480	476	471	468	468	478	486	491	495	491	488	480
8		491	487	485	483	480	476	473	475	475	475	478	481	480	477	475	470	473	473	475	475	480	485	487	485	479
9		480	484	472	479	481	481	480	480	480	479	480	481	481	480	479	480	481	485	483	481	485	485	487	490	481
10		491	479	482	481	480	477	470	474	476	476	476	478	480	481	476	474	470	466	468	470	476	479	478	476	476
11	Q	476	475	475	475	476	475	474	471	473	475	475	476	476	476	474	469	466	470	471	474	476	476	475	474	474
12	D	475	489	504	511	474	464	435	409	415	425	435	454	466	469	481	477	478	485	524	551	549	526	530	529	481
13	D	498	468	494	495	465	443	446	443	424	413	438	458	466	483	486	498	490	490	493	489	493	494	499	502	474
14		501	491	483	480	460	463	475	476	467	474	483	487	486	489	488	483	484	484	489	491	491	492	496	490	484
15		487	484	483	483	482	482	481	478	474	473	478	479	482	483	483	483	483	484	484	484	484	484	485	484	482
16		483	483	482	481	481	478	472	461	458	472	478	479	482	481	483	480	473	466	466	470	473	478	478	478	476
17		479	479	482	485	483	480	483	480	479	478	479	480	483	484	484	480	478	475	477	480	485	487	489	489	482
18		490	488	489	484	484	483	480	477	468	473	479	482	483	481	480	476	473	475	478	478	479	483	483	483	480
19		480	481	479	479	479	478	479	478	475	476	477	477	479	479	478	475	476	479	486	492	501	501	495	496	482
20		491	487	484	484	483	480	479	463	454	457	473	477	479	483	479	468	468	474	473	477	480	480	481	480	476
21	Q	480	480	479	479	479	479	479	479	479	479	479	482	484	484	478	473	473	478	484	485	484	482	480	480	480
22	Q	479	479	478	477	476	477	478	478	479	479	479	480	483	481	479	477	477	479	483	484	482	480	479	479	479
23	Q	478	478	477	475	476	475	475	476	476	475	475	478	480	480	477	477	480	479	479	478	476	479	477	474	477
24		474	473	473	473	473	473	474	474	474	474	473	473	473	473	467	462	461	468	469	473	475	479	479	479	472
25		477	477	477	477	473	473	473	473	465	451	450	457	466	467	462	460	467	473	476	479	479	480	480	478	470
26		478	477	475	474	474	474	474	474	468	467	467	472	476	476	470	466	468	473	474	478	480	476	476	480	474
27		482	478	476	476	475	476	474	461	459	472	474	477	479	480	474	468	468	470	474	478	477	475	478	475	474
28		475	475	475	474	475	474	468	468	474	474	473	474	476	478	474	471	465	469	470	472	473	474	476	484	473
29	D	495	497	487	482	481	479	470	474	475	474	470	470	473	467	461	452	441	475	477	482	479	482	486	485	476
30		483	482	481	481	480	480	480	480	481	475	462	456	462	458	457	471	473	477	481	489	493	494	491	491	477
31	D	487	490	470	457	453	441	405	353	376	448	362	268	379	390	401	453	591	607	603	620	618	550	517	511	469
MEAN A		485	483	481	478	477	470	469	466	463	465	463	465	473	475	474	473	477	481	485	489	490	488	487	487	477
MEAN Q		479	479	478	478	478	478	477	476	476	477	477	480	482	482	479	476	476	478	481	483	482	480	479	478	479
MEAN D		493	488	485	487	471	450	437	435	436	446	418	405	438	451	458	469	494	507	517	527	526	509	505	505	473

HORIZONTAL INTENSITY

TABLE 31 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

NOVEMBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	780	762	769	769	770	773	773	778	778	784	786	746	407	652	667	720	741	751	758	729	769	933	1143	1059	775
2	D	826	818	626	641	654	661	611	682	676	673	746	762	746	725	707	736	746	762	789	784	802	802	779	777	730
3	D	741	770	783	752	761	720	726	761	790	794	795	790	768	757	769	763	773	784	775	777	783	781	779	789	770
4	D	795	800	806	801	797	806	801	759	763	784	790	791	756	752	758	784	785	784	790	804	790	793	806	802	787
5		800	804	800	803	809	806	805	805	804	799	803	800	789	787	783	783	783	789	799	804	804	799	806	810	799
6		810	810	810	811	814	811	811	815	815	815	814	811	807	794	783	778	776	781	781	793	799	812	810	790	802
7		793	784	792	787	776	762	734	789	799	804	810	809	804	777	772	771	770	773	783	793	804	815	818	819	789
8		820	819	818	814	813	810	814	805	805	815	819	825	819	804	768	772	787	793	803	803	804	804	799	798	806
9	D	793	788	798	797	788	799	810	802	824	811	813	811	816	791	766	766	765	776	787	793	809	815	818	820	798
10		819	819	814	814	815	812	810	809	809	808	810	809	808	809	792	770	765	775	790	808	808	808	811	808	804
11		818	803	796	807	809	804	797	795	804	808	809	819	808	793	796	792	791	796	808	813	818	819	819	817	806
12	Q	807	815	815	818	815	815	817	819	820	820	821	819	813	803	792	787	782	787	797	809	818	821	825	825	811
13		823	823	822	821	820	819	823	826	829	824	823	819	811	796	789	788	796	809	819	817	819	824	824	825	816
14	Q	824	826	825	828	828	826	827	829	829	830	833	833	828	814	802	789	790	795	808	818	824	823	829	834	821
15	Q	832	830	829	828	827	824	827	828	827	829	829	829	823	808	795	787	786	790	803	816	824	829	833	833	819
16		829	828	827	828	825	826	826	823	826	837	839	845	834	823	833	838	849	845	840	837	832	832	822	833	832
17		829	828	832	829	824	818	807	811	808	811	814	811	802	805	800	782	777	790	789	801	807	794	791	796	807
18		790	774	786	775	763	764	768	764	780	773	796	802	794	779	768	768	778	788	800	816	818	812	800	803	786
19		814	811	807	808	808	806	804	811	813	817	817	812	806	800	788	778	775	784	795	802	817	825	827	828	806
20		826	826	823	821	821	822	825	827	827	830	844	835	816	771	756	800	802	791	800	811	816	815	821	821	814
21		821	822	821	816	812	813	816	817	817	821	819	816	809	800	793	788	781	785	801	818	822	821	815	820	811
22		820	822	822	822	822	821	822	822	821	822	825	824	816	801	796	800	805	810	817	821	828	828	827	832	819
23		827	827	821	827	828	820	822	821	822	825	827	822	816	815	807	805	806	811	820	827	831	832	834	837	822
24		838	837	833	832	831	831	832	834	835	837	833	833	830	821	810	804	810	817	828	842	852	849	845	844	832
25		836	831	832	835	832	829	828	830	831	829	831	830	826	816	809	809	809	814	820	815	824	827	830	831	825
26		830	828	824	826	829	829	829	826	827	827	828	831	831	826	810	803	801	809	820	821	827	833	827	828	824
27		831	815	806	814	814	817	819	821	824	826	826	826	820	813	803	799	800	809	820	824	820	816	830	831	818
28		829	830	826	827	826	826	826	827	826	826	825	828	827	816	808	803	804	814	815	830	832	838	836	831	824
29	Q	830	835	829	827	826	827	827	829	831	831	828	830	824	811	798	794	799	808	819	826	830	831	832	832	823
30	Q	831	831	831	831	832	833	834	836	836	836	835	832	829	820	811	805	804	809	819	826	824	829	831	827	826
MEAN	A	815	814	807	807	806	804	802	807	810	812	816	815	796	793	785	785	788	794	803	809	815	822	829	827	807
MEAN	Q	825	827	826	826	826	825	826	828	829	829	829	829	824	811	800	792	792	798	809	819	824	826	830	830	820
MEAN	D	787	787	756	752	754	752	744	756	766	769	786	780	699	735	733	754	762	771	780	777	791	825	865	849	772

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

DECLINATION

TABLE 32 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

NOVEMBER 1968

HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
DAY	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1	D	41.0	24.1	36.6	39.0	41.0	42.9	42.0	42.0	41.1	40.5	39.6	57.4	74.9	64.7	36.5	45.2	49.1	47.4	46.0	47.3	45.8	45.6	64.8	29.3	45.2
2	D	32.7	31.4	55.5	34.3	38.7	45.8	46.3	43.6	39.8	51.5	43.8	47.3	42.7	46.6	55.6	43.8	45.3	40.3	41.5	44.3	43.0	39.8	38.8	35.2	42.8
3	D	28.7	21.6	42.9	42.4	41.6	49.2	50.3	50.4	40.0	39.1	39.8	38.9	38.8	43.1	42.6	44.2	41.1	46.3	48.7	47.4	44.1	41.9	41.9	41.1	41.9
4	D	38.9	36.8	39.8	40.2	40.9	43.0	39.8	39.8	39.6	37.7	36.6	34.5	37.7	41.6	38.9	43.5	43.1	44.1	44.0	43.0	42.0	39.9	39.9	40.8	40.3
5		40.4	40.4	40.6	36.9	40.7	40.8	40.7	43.7	41.8	38.8	37.5	36.6	37.7	34.6	35.8	38.8	40.9	42.9	42.9	41.9	40.9	40.2	40.9	40.7	39.9
6		39.9	39.9	39.9	39.5	39.7	40.5	39.9	39.8	38.9	38.8	38.5	38.8	36.6	34.5	36.5	39.8	42.1	44.6	46.0	46.3	45.2	43.1	41.2	39.9	40.4
7		38.9	33.5	32.9	37.6	33.6	34.6	47.4	34.7	37.6	37.6	35.5	37.9	33.7	34.6	33.6	35.5	40.1	43.4	45.2	44.4	43.2	42.2	41.4	40.9	38.3
8		39.9	39.2	39.3	39.7	39.9	40.8	38.9	40.0	37.7	36.7	35.5	35.8	37.8	35.7	35.9	44.2	47.8	49.3	46.8	45.5	43.5	42.8	41.3	40.3	40.6
9	D	38.9	35.4	30.4	31.5	34.6	35.7	37.5	42.1	42.2	38.5	33.8	37.6	39.6	36.4	37.7	42.1	43.9	44.1	45.3	45.1	43.0	41.7	40.8	39.8	39.1
10		39.8	39.5	39.1	35.8	37.9	39.8	39.9	39.9	39.8	39.3	38.8	43.0	44.5	36.9	35.8	38.8	42.3	47.4	46.7	45.3	44.2	42.3	42.1	39.9	40.8
11		35.8	34.6	36.7	39.9	37.8	38.2	40.4	45.2	39.9	34.6	38.5	36.0	36.7	39.0	40.8	41.3	43.9	45.2	44.1	42.4	41.1	40.8	39.9	40.0	39.7
12	Q	40.0	39.1	39.0	39.7	39.9	40.0	40.0	39.9	39.6	39.0	38.9	38.9	37.6	35.8	35.6	37.6	41.0	43.9	45.0	44.3	42.8	41.5	40.2	39.3	39.9
13		39.0	38.9	38.9	38.9	39.1	40.0	40.2	40.0	39.0	37.9	39.0	36.8	36.0	34.6	34.8	38.6	42.2	45.2	46.4	46.6	45.5	44.5	41.4	40.1	40.1
14	Q	39.8	39.2	39.0	39.0	39.0	39.2	39.1	39.1	39.1	38.9	38.4	37.9	36.6	35.6	34.5	37.9	41.3	44.5	45.6	44.5	43.1	42.0	40.9	39.2	39.7
15	Q	39.1	39.0	39.1	39.1	39.0	39.1	40.1	39.3	39.0	39.0	38.2	38.0	37.0	35.1	35.0	37.2	41.1	43.1	44.3	43.6	42.5	42.2	41.2	40.2	39.6
16		39.4	39.3	39.1	39.2	39.4	39.3	39.1	39.0	39.1	38.5	37.3	36.3	34.9	32.6	33.7	40.1	42.3	43.3	44.1	42.4	43.0	43.4	40.2	39.4	39.3
17		39.4	39.0	37.1	41.4	39.8	39.9	39.8	38.8	34.8	36.4	37.1	37.8	35.6	35.7	39.5	44.2	51.9	50.8	49.0	45.9	44.5	46.5	47.7	48.9	41.7
18		40.1	35.3	39.2	37.9	37.0	36.1	36.0	30.7	30.7	38.2	38.3	34.8	33.8	34.0	35.4	39.4	41.3	45.2	46.6	45.5	43.2	42.0	43.4	40.4	38.5
19		40.2	39.3	38.8	38.8	38.9	38.3	38.9	39.2	38.8	37.9	35.8	37.1	38.3	35.8	36.2	39.2	42.3	44.5	45.4	43.5	42.3	41.5	41.3	40.2	39.7
20		40.1	39.6	39.5	39.4	39.5	40.1	40.2	39.6	39.2	39.2	33.9	32.1	31.7	32.7	42.7	50.1	48.0	47.8	48.9	46.8	43.2	40.8	39.6	38.3	40.5
21		37.9	37.3	40.0	41.2	41.2	40.5	40.3	39.7	39.3	38.9	38.3	38.2	38.0	37.3	38.1	41.7	44.7	47.9	48.0	46.5	43.6	41.6	42.5	42.1	41.0
22		40.0	38.2	38.3	39.3	39.4	39.5	39.8	39.4	39.5	38.3	38.1	38.1	37.1	35.5	37.1	39.4	42.3	43.6	44.4	42.5	42.3	42.7	41.2	41.2	39.9
23		39.3	39.2	39.5	37.3	38.0	40.5	40.4	40.1	39.7	38.9	38.3	38.0	37.1	36.1	36.2	39.4	42.4	43.3	43.5	42.5	41.4	40.8	40.3	39.4	39.6
24		39.0	39.4	39.1	39.3	38.7	39.3	39.1	39.1	38.7	38.3	37.4	37.2	36.3	35.3	36.4	40.2	41.9	44.5	44.9	43.7	41.6	40.5	40.4	40.2	39.6
25		40.4	38.1	39.0	38.3	37.4	38.4	38.5	38.6	37.5	37.2	37.3	36.4	34.2	34.2	35.3	39.4	42.2	43.4	43.9	44.7	42.7	41.6	40.6	39.9	39.1
26		38.9	38.4	38.6	38.2	39.1	39.1	39.3	39.3	39.1	37.6	39.1	38.1	35.9	35.1	36.2	41.4	43.7	44.8	44.7	44.7	42.9	42.4	42.6	40.6	40.0
27		40.4	39.6	35.0	38.5	39.4	39.8	38.3	40.1	38.4	38.4	37.6	38.2	36.4	35.2	35.1	39.3	41.5	43.5	44.9	45.5	45.4	45.7	42.4	41.2	40.0
28		39.4	38.7	38.3	38.5	38.6	39.5	39.4	39.6	38.7	38.2	40.5	37.3	37.0	35.1	36.8	40.3	42.3	43.7	45.0	45.5	41.9	40.9	40.4	39.5	39.8
29	Q	39.4	38.4	39.4	39.6	39.2	39.7	39.7	39.6	39.5	39.1	38.7	38.4	37.3	36.1	36.6	39.5	40.9	42.7	42.8	42.0	40.9	40.7	40.6	40.3	39.6
30	Q	39.8	39.7	39.7	39.8	40.1	40.3	40.4	40.1	39.7	39.7	39.1	38.4	38.1	37.3	37.3	39.1	41.0	42.3	42.6	41.5	40.5	40.5	40.4	40.6	39.9
MEAN A		38.9	37.1	39.0	38.7	39.0	40.0	40.4	40.1	38.9	38.7	38.0	38.4	38.3	37.2	37.4	40.7	43.1	44.8	45.2	44.5	43.0	42.1	42.0	40.0	40.2
MEAN Q		39.6	39.1	39.2	39.4	39.4	39.7	39.9	39.6	39.4	39.1	38.7	38.3	37.3	36.0	35.8	38.3	41.0	43.3	44.0	43.2	42.0	41.4	40.7	39.9	39.8
MEAN D		36.0	29.9	41.0	37.5	39.4	43.3	43.2	43.6	40.6	41.5	38.7	43.1	46.7	46.5	42.2	43.7	44.5	44.4	45.1	45.4	43.6	41.8	45.2	37.3	41.8

VERTICAL INTENSITY

TABLE 33 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

NOVEMBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	D	544	557	529	516	506	494	499	502	504	505	497	465	411	460	448	505	516	527	528	579	585	591	509	541	513
2	D	553	615	532	533	462	404	388	391	379	380	435	455	467	480	481	506	512	524	507	505	518	529	551	567	486
3	D	523	534	523	492	481	429	415	427	473	501	505	506	501	497	490	490	512	506	506	509	518	530	518	513	496
4	D	511	506	501	500	494	468	471	427	425	455	473	484	479	486	489	501	501	501	506	512	517	512	505	501	488
5		502	501	500	499	497	496	496	490	485	483	489	491	493	490	489	490	489	490	491	495	495	497	496	496	493
6		497	496	495	492	491	492	492	493	493	493	494	494	496	497	495	489	488	488	494	502	502	501	502	509	495
7		514	496	492	497	491	474	410	453	473	480	480	486	492	492	497	491	488	491	492	496	497	497	496	493	486
8		493	492	492	492	492	486	477	475	467	466	472	475	480	479	479	477	486	487	487	498	499	499	501	504	486
9	D	506	509	493	503	491	486	491	475	439	423	457	481	475	478	476	483	483	493	498	499	499	495	492	491	484
10		490	490	490	487	478	486	486	487	482	481	484	477	481	478	480	481	490	495	497	498	496	497	497	498	488
11		493	494	495	474	490	486	481	457	452	469	472	466	472	482	479	477	479	483	486	491	492	490	489	490	481
12	Q	491	491	490	490	490	489	488	489	489	488	488	488	491	490	487	486	486	490	494	496	494	492	491	488	490
13		487	487	487	486	486	487	487	486	484	483	482	481	483	485	484	484	487	487	488	491	490	492	489	487	486
14	Q	487	487	486	486	486	486	486	484	483	483	483	482	482	480	476	472	473	476	481	482	482	482	483	482	482
15	Q	483	482	482	482	481	481	482	481	481	481	481	481	479	477	478	477	478	483	488	489	488	486	484	483	482
16		482	483	483	483	483	482	482	482	482	481	478	477	475	476	461	454	453	450	461	468	476	478	479	479	474
17		479	482	484	484	484	484	485	490	491	488	486	485	485	482	477	473	488	495	511	523	525	535	546	548	496
18		538	526	518	513	507	497	478	470	477	480	485	497	502	499	496	491	491	491	495	497	498	496	500	502	498
19		499	497	496	496	491	489	489	486	488	484	484	486	487	484	480	481	486	490	491	491	491	491	487	487	489
20		487	487	487	487	487	487	487	487	487	475	478	470	474	471	452	448	459	471	479	491	492	493	493	491	480
21		489	488	488	488	488	488	488	488	488	488	488	487	488	488	486	485	488	494	498	496	492	492	493	493	489
22		494	491	489	489	489	489	488	487	487	485	486	486	484	478	474	471	476	479	483	486	485	484	483	487	485
23		488	488	488	483	484	485	484	484	484	484	484	483	482	478	473	467	469	472	478	483	483	483	480	480	481
24		480	480	480	481	480	480	479	479	479	479	479	478	477	474	468	467	467	469	475	479	479	475	475	476	476
25		479	480	483	482	480	480	483	482	480	479	477	476	476	474	468	469	473	476	480	482	485	485	485	484	479
26		485	485	485	485	485	483	481	482	482	480	480	480	480	474	469	467	468	474	480	482	481	482	484	484	480
27		485	491	491	490	491	490	487	487	485	484	480	480	480	478	470	470	470	474	480	481	481	489	490	487	483
28		487	487	486	486	486	486	483	483	482	480	476	469	471	468	463	466	474	478	481	482	480	481	481	480	479
29	Q	481	480	479	479	479	479	479	480	480	479	478	479	480	478	475	474	475	476	478	481	480	479	479	479	479
30	Q	478	478	477	477	477	477	477	477	477	478	477	477	478	477	475	475	479	482	485	485	482	481	481	481	479
MEAN A		497	499	493	491	487	481	477	475	476	477	480	481	480	481	477	479	482	486	490	495	496	497	495	496	486
MEAN Q		484	483	483	483	483	483	483	482	482	482	481	482	482	480	478	477	478	481	485	487	485	484	484	483	482
MEAN D		527	544	516	509	487	456	453	444	444	453	473	478	467	480	477	497	505	510	509	521	527	532	515	523	494

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 34 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

DECEMBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		826	820	821	821	819	824	830	831	830	830	831	830	830	816	794	784	789	793	808	814	824	827	828	830	819
2		829	829	829	826	826	827	831	831	828	832	837	841	834	830	830	824	814	814	814	821	824	826	827	827	827
3	D	829	829	820	830	819	805	819	819	814	825	836	831	820	804	804	791	778	794	805	802	800	809	798	810	812
4	D	811	826	826	823	820	820	820	810	806	805	820	815	810	814	815	778	771	790	798	788	800	815	810	811	808
5	D	815	820	824	830	809	815	822	819	779	804	841	826	804	815	804	794	793	786	800	794	809	805	798	799	809
6		799	805	809	806	815	812	808	808	808	811	812	815	812	805	799	790	790	798	805	811	814	818	824	827	808
7	Q	825	826	826	825	824	824	824	821	825	827	828	827	823	820	815	809	799	806	819	821	823	821	824	823	821
8		825	821	826	816	822	815	810	804	798	820	825	825	821	809	808	804	800	806	807	809	819	826	816	815	815
9		824	826	825	821	821	821	822	825	826	826	827	829	826	816	805	794	795	809	815	826	821	824	826	820	820
10		808	826	831	821	833	820	816	810	813	821	823	821	823	814	798	783	780	793	810	822	826	820	830	831	816
11		832	831	839	836	831	830	830	830	827	829	829	827	821	814	798	791	788	812	821	822	831	836	836	834	824
12		827	816	830	821	821	821	826	826	827	826	827	824	820	810	798	796	801	811	816	814	820	831	836	837	820
13		831	830	836	835	835	832	835	835	835	833	830	831	826	824	814	804	805	811	813	821	819	830	831	831	826
14	Q	831	833	832	831	831	831	830	827	830	830	827	826	823	815	804	799	800	806	814	821	830	835	836	837	824
15		841	840	841	843	841	836	831	824	830	831	831	832	831	826	815	802	804	814	826	831	830	831	842	843	830
16		842	842	835	831	826	831	824	825	826	827	827	826	830	819	814	808	806	814	820	832	825	832	836	837	826
17	Q	831	829	836	837	835	831	828	830	830	831	831	832	832	836	827	813	804	809	819	831	841	842	841	842	830
18		843	842	827	833	838	837	836	837	838	842	846	842	841	835	824	821	825	836	831	835	837	833	846	842	836
19		842	829	836	840	835	830	825	831	836	836	836	830	826	830	814	804	807	810	817	833	841	842	831	831	829
20	Q	841	840	838	836	835	831	831	836	841	841	840	836	833	824	814	810	815	827	836	841	843	843	843	846	834
21		840	833	831	831	836	835	834	835	841	841	842	828	831	836	830	816	804	815	836	842	837	820	805	832	830
22		819	827	825	815	824	820	827	822	827	830	829	828	826	815	805	804	798	804	819	834	832	835	837	837	822
23	D	841	842	837	836	831	831	835	831	831	832	827	831	829	821	788	804	810	806	817	826	820	815	820	826	825
24		836	832	836	832	830	830	831	827	830	831	830	827	824	814	793	788	792	814	830	836	836	836	830	831	825
25	D	842	841	842	848	827	814	827	824	830	827	841	842	837	826	811	794	794	805	820	830	831	837	835	837	828
26	Q	841	838	836	833	831	832	836	837	838	840	840	836	831	819	804	793	793	805	817	835	841	846	848	848	830
27		843	840	832	832	837	837	853	836	835	835	827	827	831	827	822	809	800	805	811	818	826	830	831	831	828
28		832	835	835	831	833	832	833	836	837	837	837	836	831	821	809	792	790	802	811	819	826	836	836	835	826
29		836	841	841	837	838	841	841	842	843	844	848	846	837	834	819	799	785	783	805	809	819	826	821	824	827
30		830	830	835	842	838	831	832	834	836	837	838	840	828	834	829	809	800	799	804	814	821	836	837	830	828
31		820	827	835	835	837	837	841	841	842	843	846	846	846	842	827	805	798	803	808	821	816	831	814	832	829
MEAN A		830	830	831	830	829	827	829	827	827	830	833	831	827	821	811	800	798	806	815	822	825	829	828	830	824
MEAN Q		834	833	834	832	831	830	830	830	833	834	833	831	828	823	813	805	802	811	821	830	836	837	838	839	828
MEAN D		828	832	830	833	821	817	825	821	812	819	833	829	820	816	804	792	789	796	808	808	812	816	812	816	816

DECLINATION

TABLE 35 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

DECEMBER 1968

HOUR UT	0 TO	1 TO	2 TO	3 TO	4 TO	5 TO	6 TO	7 TO	8 TO	9 TO	10 TO	11 TO	12 TO	13 TO	14 TO	15 TO	16 TO	17 TO	18 TO	19 TO	20 TO	21 TO	22 TO	23 TO	MEAN	
DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	39.8	39.4	40.2	40.1	38.5	39.2	39.7	39.9	40.0	39.1	36.6	36.9	36.9	36.1	40.0	43.0	45.3	44.6	44.3	42.5	41.1	40.1	39.9	39.3	40.1	
2	39.1	38.9	39.2	39.8	39.2	39.2	39.8	39.0	37.8	39.0	42.2	39.0	37.8	39.7	40.0	44.4	44.4	45.3	44.7	43.2	41.4	41.4	40.2	40.1	40.6	
3	D	39.4	39.5	39.3	40.2	40.0	38.9	39.1	37.8	38.1	40.1	33.8	35.9	41.0	40.2	42.0	43.3	46.5	45.2	43.4	44.4	44.3	39.9	39.2	40.5	
4	D	35.8	33.9	40.0	40.2	40.2	40.1	38.3	34.6	33.9	31.4	34.5	38.8	39.4	39.7	40.1	41.2	47.3	46.6	44.6	42.5	42.4	42.0	41.9	38.2	39.5
5	D	38.0	38.9	36.1	37.9	36.5	39.9	40.2	38.0	46.4	41.2	30.5	33.8	42.3	36.1	40.1	42.5	42.2	42.3	43.4	42.3	43.2	41.7	41.0	39.3	39.7
6		38.3	37.6	34.9	37.8	40.2	39.2	40.2	40.1	39.0	39.7	40.1	38.1	37.3	36.1	38.0	40.0	41.1	41.6	41.7	41.3	40.6	41.1	40.5	40.0	39.4
7	Q	39.5	39.1	39.3	39.4	40.0	40.2	40.3	40.3	40.0	39.0	38.4	39.0	38.3	37.1	38.1	41.1	43.3	44.5	43.6	42.4	41.3	41.1	40.3	39.7	40.2
8		39.2	38.1	37.5	39.5	38.9	40.2	39.2	38.2	42.4	39.5	38.2	39.0	36.1	37.1	38.9	41.3	43.2	43.2	42.5	43.8	42.3	41.3	41.0	40.2	40.0
9		38.3	38.0	38.4	38.9	39.6	40.1	40.1	39.3	39.2	39.1	39.0	38.1	37.0	35.2	36.1	40.3	43.3	44.7	45.3	44.5	44.4	42.6	41.0	41.4	40.2
10		40.1	39.0	38.2	37.0	41.3	39.3	40.0	39.1	34.3	35.3	34.0	38.0	39.5	34.0	36.8	40.2	42.5	43.6	43.1	42.4	41.7	41.5	41.1	40.3	39.3
11		39.1	37.1	37.9	39.0	40.0	39.1	40.0	39.0	38.3	38.2	37.6	37.5	36.2	36.0	37.2	39.0	44.2	45.0	44.7	45.6	41.6	40.3	40.3	40.2	39.7
12		39.5	38.1	33.8	38.0	38.1	42.4	39.5	39.2	38.4	38.3	38.2	38.1	37.4	36.1	38.4	41.3	43.2	43.2	42.6	42.0	41.3	40.6	40.2	40.1	39.5
13		39.3	38.1	39.0	38.5	39.1	38.3	39.2	39.2	39.2	38.8	38.3	38.3	37.8	36.3	36.8	40.1	42.4	43.6	42.5	43.2	42.1	41.4	41.3	40.1	39.7
14	Q	39.1	39.0	39.1	39.3	39.3	39.5	39.1	38.9	39.3	38.0	38.3	38.2	37.1	36.1	37.9	39.4	42.1	43.4	43.4	43.3	42.4	41.1	40.3	40.0	39.7
15		39.2	38.9	38.1	37.5	39.2	39.2	39.2	39.1	37.9	37.8	38.1	38.2	37.1	34.1	33.6	37.2	41.2	43.2	43.6	43.4	43.4	42.4	40.2	39.4	39.2
16		38.1	37.9	38.1	39.3	39.0	39.1	37.3	37.3	37.1	36.8	37.0	38.1	36.2	34.1	35.5	38.3	40.7	43.2	43.6	44.2	43.5	43.4	41.4	39.5	39.1
17	Q	40.1	39.9	39.0	38.5	38.5	38.2	38.2	37.2	37.6	38.0	38.2	38.2	38.1	35.3	35.0	37.2	38.9	41.2	42.7	42.5	40.7	40.0	40.1	39.6	38.9
18		39.4	39.3	39.2	40.1	39.5	39.4	39.3	39.3	39.2	39.6	39.3	40.0	37.5	34.0	36.8	39.0	41.3	41.7	42.8	44.9	44.4	41.4	41.4	40.0	39.9
19		40.3	40.3	39.0	39.4	40.1	39.1	39.5	38.2	37.8	37.8	39.1	37.2	38.4	34.8	35.9	40.1	42.1	42.5	44.3	42.7	41.6	40.9	41.4	40.1	39.7
20	Q	39.2	38.6	39.2	39.6	39.4	39.1	38.2	38.2	38.4	38.4	38.6	38.2	37.2	36.2	36.4	39.2	41.4	42.2	41.5	41.2	39.9	39.9	39.7	39.5	39.1
21		39.5	39.3	40.4	39.2	39.4	39.8	39.2	37.9	38.2	39.1	38.2	38.0	38.1	34.6	36.0	39.5	41.7	46.7	44.9	44.6	42.7	42.7	41.4	37.3	39.9
22		38.2	41.3	39.4	39.5	40.4	39.3	40.3	39.2	38.6	38.3	39.0	37.8	37.3	36.1	38.2	40.3	43.8	45.6	44.4	42.5	41.6	41.5	40.6	39.8	40.1
23	D	38.9	38.3	39.3	40.6	40.3	39.4	39.4	37.4	34.8	36.1	36.2	37.3	36.0	36.2	42.4	46.4	46.8	45.4	43.6	44.4	43.6	40.3	42.5	38.5	40.2
24		37.2	39.9	39.3	41.1	41.5	41.1	39.6	38.2	40.1	38.4	38.1	38.1	37.4	37.4	38.3	41.5	45.4	46.4	44.9	42.9	42.0	41.4	40.0	33.8	40.2
25	D	39.6	39.0	36.5	33.2	42.6	46.5	43.5	41.3	38.1	38.1	36.6	36.9	37.1	36.9	37.5	40.3	41.7	43.5	43.5	42.5	41.6	40.6	40.3	39.7	39.9
26	Q	39.2	38.8	39.1	39.1	39.3	39.4	39.5	39.3	39.3	39.1	38.8	38.5	37.5	36.1	37.3	41.3	43.1	44.4	44.6	44.4	42.6	41.3	40.2	39.7	40.1
27		39.4	39.2	39.6	37.2	40.3	41.3	43.7	38.2	39.3	48.0	39.5	41.5	40.4	45.5	43.2	44.3	45.5	44.7	43.8	43.3	41.6	40.2	39.6	39.5	41.6
28		39.3	39.4	39.5	39.3	39.1	39.0	42.2	40.3	39.3	38.4	39.2	37.3	36.3	35.0	35.3	40.2	42.7	43.8	43.7	44.3	42.5	40.3	39.3	39.5	39.8
29		39.5	39.3	39.5	39.4	39.0	39.6	39.5	39.5	39.3	40.7	39.3	37.3	39.2	39.3	37.2	39.1	43.2	45.9	45.4	46.5	44.5	42.5	40.6	40.7	40.6
30		39.4	39.3	39.2	36.0	39.5	39.4	40.3	39.4	40.4	40.4	39.5	39.2	41.4	39.2	37.2	39.2	41.2	42.7	44.6	43.6	43.6	41.7	41.4	41.2	40.4
31		40.2	38.2	37.2	38.3	39.3	39.3	39.5	39.4	39.3	39.3	39.6	39.3	38.2	35.3	34.3	38.2	41.5	44.2	46.4	46.7	45.4	43.5	41.3	40.4	40.2
MEAN A		39.1	38.8	38.5	38.8	39.6	39.8	39.8	38.8	38.7	38.7	37.9	38.1	38.0	36.6	37.7	40.6	42.9	44.0	43.9	43.4	42.4	41.4	40.7	39.6	39.9
MEAN Q		39.4	39.1	39.1	39.2	39.3	39.3	39.1	38.8	38.9	38.5	38.5	38.4	37.6	36.1	37.0	39.6	41.8	43.1	43.2	42.7	41.4	40.7	40.2	39.7	39.6
MEAN D		38.3	37.9	38.2	38.4	39.9	41.0	40.1	37.8	38.3	37.4	34.3	36.5	39.1	37.8	40.1	42.5	44.3	44.9	44.1	43.0	43.0	41.8	41.1	39.0	40.0

VERTICAL INTENSITY

TABLE 36 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

DECEMBER 1968

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		482	482	482	482	478	481	482	481	480	470	465	459	464	465	465	469	471	472	482	483	484	482	481	480	476
2		479	478	478	478	479	478	478	478	476	476	470	465	468	466	465	471	470	471	477	480	481	482	480	480	475
3	D	480	478	478	464	448	468	480	481	476	460	454	460	459	455	457	464	470	476	481	483	488	496	501	498	473
4	D	493	488	482	482	482	481	471	446	446	441	444	447	461	463	459	461	478	481	486	488	491	490	493	489	473
5	D	492	486	482	476	468	477	482	481	418	372	423	449	447	454	453	464	470	476	486	494	505	506	505	506	470
6		508	506	494	488	476	476	480	482	482	480	482	483	484	482	475	473	477	481	481	482	482	484	486	486	484
7	Q	485	483	483	482	482	482	482	482	481	480	482	483	480	478	476	475	479	484	486	482	482	482	482	482	481
8		482	482	484	486	481	481	475	471	469	466	470	475	475	475	471	471	474	481	488	489	488	488	488	492	479
9		489	488	488	484	482	481	481	482	482	481	479	480	481	478	475	477	480	482	484	486	485	485	485	488	483
10		492	486	482	482	471	476	471	463	465	470	470	470	470	470	467	471	476	483	488	486	486	483	482	482	477
11		483	481	481	478	478	481	482	482	479	478	477	477	477	472	471	472	473	479	478	479	478	477	478	479	478
12		480	482	477	483	483	483	483	482	478	477	477	477	476	471	466	470	473	478	482	478	478	477	477	477	478
13		477	478	477	477	477	474	475	474	473	472	471	472	471	467	462	467	471	467	471	475	476	476	475	476	473
14	Q	477	474	473	473	473	472	472	472	468	471	472	472	472	467	470	473	476	478	479	478	479	478	473	473	473
15		472	472	472	472	472	472	471	472	473	473	472	473	473	473	467	467	472	473	473	476	478	478	475	473	473
16		474	473	473	474	468	462	472	473	473	473	472	474	473	468	463	465	468	469	472	479	475	480	479	479	472
17	Q	479	484	480	479	477	474	474	474	474	474	474	475	474	473	465	466	467	468	470	473	474	471	472	473	474
18		474	474	474	475	474	474	473	473	473	470	469	469	469	467	463	467	469	468	468	469	470	469	474	473	471
19		475	478	477	472	470	469	470	465	469	469	469	469	470	469	463	468	474	475	474	474	475	473	474	476	471
20	Q	475	474	471	470	470	470	471	471	472	470	470	469	469	466	463	466	468	470	469	468	470	468	468	470	469
21		470	470	474	472	471	470	470	469	468	466	465	464	470	470	463	460	468	476	476	475	471	472	487	497	471
22		494	491	488	489	486	482	477	476	473	471	472	472	476	472	470	472	472	475	475	472	471	470	471	472	477
23	D	472	471	471	472	473	475	475	476	471	470	465	471	471	463	464	471	475	482	484	482	478	481	487	486	474
24		484	481	477	473	472	472	477	475	474	473	473	476	477	473	467	466	470	477	478	478	477	475	476	478	475
25	D	477	473	471	460	447	455	465	479	481	477	476	470	470	469	469	475	478	479	483	478	474	473	472	474	472
26	Q	474	473	472	473	473	473	473	473	473	473	473	472	473	471	470	475	478	480	480	479	477	473	471	471	474
27		471	469	471	471	472	469	445	452	445	428	428	454	455	451	454	462	472	474	477	479	478	477	474	474	463
28		474	473	473	473	471	473	472	470	472	472	472	470	471	470	472	470	478	479	474	474	478	476	473	473	473
29		474	472	469	469	468	468	469	469	468	467	463	465	468	470	468	468	474	479	480	479	481	482	485	485	473
30		481	472	468	464	467	468	468	468	467	456	464	467	468	471	462	457	467	473	475	477	478	478	474	474	469
31		476	475	475	473	473	471	472	470	469	469	469	469	469	469	467	462	462	467	469	474	472	480	481	480	471
MEAN A		480	479	477	476	473	474	474	473	470	466	467	469	470	469	466	468	473	476	478	479	479	479	480	481	474
MEAN Q		478	477	476	475	475	474	474	474	475	473	473	473	474	472	468	470	473	475	477	476	476	474	473	474	474
MEAN D		483	479	477	471	463	471	475	473	458	444	452	459	462	461	460	467	474	479	484	485	487	489	492	491	472

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY-ALL DAYS

TABLE 37 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	748	752	767	779	796	807	813	818	818	822	815	830	797	808	796	786
1-2	746	753	766	776	792	801	811	816	816	820	814	830	795	805	794	786
2-3	745	749	766	775	789	799	807	814	817	819	807	831	793	802	794	783
3-4	745	749	765	776	789	790	807	816	813	818	807	830	792	800	793	783
4-5	744	748	764	777	788	794	807	815	813	816	806	829	792	801	793	782
5-6	744	747	761	776	783	793	805	813	810	812	804	827	790	799	790	781
6-7	742	747	760	776	781	788	807	814	808	816	802	829	789	797	790	780
7-8	742	744	762	770	784	787	804	811	811	814	807	827	789	796	789	780
8-9	744	745	763	773	784	781	801	811	811	818	810	827	789	794	791	781
9-10	745	741	765	777	782	781	804	808	811	820	812	830	790	794	793	782
10-11	743	748	766	778	784	789	805	808	811	819	816	833	792	797	794	785
11-12	745	751	766	775	783	786	803	806	806	821	815	831	791	794	792	786
12-13	748	749	761	769	774	780	797	797	797	814	796	827	784	787	785	780
13-14	743	743	754	758	762	774	786	780	785	796	793	821	775	776	773	775
14-15	732	733	745	740	752	761	772	767	768	775	785	811	762	763	757	765
15-16	721	725	734	738	748	759	767	765	760	771	785	800	756	760	751	758
16-17	719	720	728	745	758	766	774	778	770	776	788	798	760	769	755	756
17-18	724	718	732	757	774	783	792	796	786	782	794	806	770	786	764	760
18-19	731	726	743	768	789	799	807	814	802	797	803	815	783	802	778	769
19-20	737	734	754	780	800	815	821	829	816	809	809	822	794	816	790	776
20-21	744	745	764	788	808	822	824	830	822	816	815	825	800	821	798	782
21-22	748	751	768	794	809	824	829	830	824	817	822	829	804	823	801	787
22-23	750	753	766	791	804	820	825	825	822	818	829	828	803	819	799	790
23-24	750	753	766	783	799	814	820	819	821	820	827	830	800	813	797	790
MEAN	741	743	758	772	784	792	804	807	805	809	807	824	787	797	786	778

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION-ALL DAYS

TABLE 38 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	38.1	39.1	38.3	37.7	37.3	36.5	37.4	37.0	38.2	39.2	38.9	39.1	38.1	37.0	38.3	38.8
1-2	37.3	37.3	37.0	37.1	35.9	36.8	36.6	37.0	37.7	37.8	37.1	38.8	37.2	36.6	37.4	37.6
2-3	36.4	36.7	36.4	36.6	36.0	37.4	37.1	36.8	37.4	37.9	39.0	38.5	37.2	36.8	37.1	37.7
3-4	36.7	36.2	35.6	36.1	37.1	37.8	37.5	36.9	38.4	38.5	38.7	38.8	37.4	37.3	37.2	37.6
4-5	36.4	35.5	35.6	36.2	36.6	37.7	37.2	37.5	38.3	38.4	39.0	39.6	37.3	37.3	37.1	37.6
5-6	36.1	36.0	35.9	36.8	36.9	36.7	37.4	37.5	39.3	38.5	40.0	39.8	37.6	37.1	37.6	38.0
6-7	36.3	37.8	36.3	37.0	37.1	37.8	38.1	38.0	38.2	37.8	40.4	39.8	37.9	37.8	37.3	38.6
7-8	35.6	36.2	36.0	37.1	37.0	37.8	38.2	38.4	37.9	38.3	40.1	38.8	37.6	37.8	37.3	37.7
8-9	35.9	35.7	35.6	36.5	36.2	36.3	38.9	38.2	36.4	37.9	38.9	38.7	37.1	37.4	36.6	37.3
9-10	35.5	36.5	35.1	35.2	35.2	36.0	37.8	37.2	36.0	37.4	38.7	38.7	36.6	36.6	35.9	37.4
10-11	36.6	36.9	35.9	34.6	33.1	33.2	34.4	34.9	35.8	38.6	38.0	37.9	35.8	33.9	36.2	37.4
11-12	36.6	36.7	35.7	33.5	31.2	31.8	31.5	31.8	34.3	37.5	38.4	38.1	34.8	31.6	35.3	37.4
12-13	35.5	36.8	34.7	32.2	30.6	31.1	29.9	29.9	33.4	34.9	38.3	38.0	33.8	30.4	33.8	37.2
13-14	34.2	36.4	33.0	31.7	31.6	31.6	30.3	30.6	33.7	33.7	37.2	36.6	33.4	31.0	33.0	36.1
14-15	34.7	35.2	32.7	33.9	34.7	33.3	32.0	34.0	35.5	35.0	37.4	37.7	34.7	33.5	34.3	36.2
15-16	37.2	35.7	35.6	38.7	38.6	38.1	37.0	40.1	40.6	37.8	40.7	40.6	38.4	38.5	38.2	38.5
16-17	39.8	37.8	39.0	42.8	42.6	42.2	41.6	44.7	45.1	40.7	43.1	42.9	41.8	42.8	41.9	40.9
17-18	41.7	40.8	42.2	44.6	44.7	44.5	44.2	47.4	46.8	44.7	44.8	44.0	44.2	45.2	44.6	42.8
18-19	42.6	43.3	43.9	45.5	45.1	45.5	45.9	48.0	46.7	45.6	45.2	43.9	45.1	46.1	45.4	43.7
19-20	42.1	43.3	44.4	44.8	44.1	44.5	45.6	46.4	45.0	45.3	44.5	43.4	44.4	45.1	44.9	43.3
20-21	41.1	42.6	43.8	43.0	41.9	42.8	43.7	43.5	42.8	43.9	43.0	42.4	42.9	43.0	43.4	42.3
21-22	40.5	41.3	42.6	41.4	40.0	40.4	41.6	40.7	41.0	42.3	42.1	41.4	41.3	40.7	41.8	41.3
22-23	40.0	40.4	41.0	39.4	38.4	38.4	39.5	38.9	39.8	41.0	42.0	40.7	39.9	38.8	40.3	40.8
23-24	39.2	40.2	39.2	38.5	37.9	37.1	37.9	38.0	39.3	40.0	40.0	39.6	38.9	37.8	39.2	39.7
MEAN	37.8	38.1	37.7	38.0	37.5	37.7	38.0	38.5	39.1	39.3	40.2	39.9	38.5	37.9	38.5	39.0

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY-ALL DAYS

TABLE 39 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	511	515	506	503	504	501	496	492	491	485	497	480	499	498	496	501
1-2	512	520	504	499	498	496	492	489	488	483	499	479	496	494	494	502
2-3	512	513	503	495	492	490	488	487	483	481	493	477	493	489	490	499
3-4	510	508	499	490	487	474	482	483	477	478	491	476	488	481	486	496
4-5	507	504	494	486	483	470	477	473	474	477	487	473	484	476	483	493
5-6	505	502	487	484	475	470	475	471	469	470	481	474	480	473	478	490
6-7	500	497	483	482	473	462	475	473	468	469	477	474	478	471	475	487
7-8	496	491	479	476	476	457	474	472	471	466	475	473	475	469	473	484
8-9	492	488	479	475	478	453	473	474	473	463	476	470	475	469	473	481
9-10	490	481	483	481	482	464	479	478	472	465	477	466	476	476	475	478
10-11	489	482	484	485	485	472	483	482	474	463	480	467	479	481	477	480
11-12	490	485	486	486	485	474	483	484	475	465	481	469	480	482	478	481
12-13	497	492	487	485	485	474	482	482	474	473	480	470	482	481	479	485
13-14	498	495	489	484	484	477	481	480	474	475	481	469	482	480	480	486
14-15	496	495	489	481	482	477	479	478	474	474	477	466	481	479	479	483
15-16	495	494	487	482	479	479	479	477	475	473	479	468	481	479	479	484
16-17	498	494	487	483	483	480	479	478	477	477	482	473	483	480	481	487
17-18	500	497	492	487	487	485	480	480	482	481	486	476	486	483	486	490
18-19	503	503	497	490	493	490	483	485	489	485	490	478	491	488	490	494
19-20	506	508	502	497	500	499	490	491	493	489	495	479	496	495	495	497
20-21	506	511	505	502	507	505	493	494	493	490	496	479	498	500	497	498
21-22	506	514	508	509	512	509	498	497	493	488	497	479	501	504	500	499
22-23	507	517	511	512	512	510	500	494	492	487	495	480	501	504	500	500
23-24	509	516	509	506	508	510	499	492	492	487	496	481	500	502	498	500
MEAN	501	501	494	490	490	482	484	483	480	477	486	474	487	485	485	491

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY—QUIET DAYS

TABLE 40 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	754	759	768	788	793	802	809	824	823	828	825	834	801	807	802	793
1-2	755	758	766	787	795	802	809	822	822	828	827	833	800	807	801	794
2-3	755	757	768	786	795	802	811	819	822	828	826	834	800	807	801	793
3-4	755	757	768	785	795	802	812	820	822	828	826	832	800	807	801	793
4-5	752	758	770	786	795	802	814	821	822	827	826	831	800	808	801	792
5-6	753	758	768	784	793	802	813	819	821	826	825	830	799	807	800	792
6-7	751	760	769	785	794	799	811	819	822	827	826	830	799	806	801	792
7-8	753	760	768	786	794	798	809	818	824	826	828	830	799	805	801	793
8-9	753	760	767	786	794	798	808	817	824	826	829	833	800	804	801	794
9-10	753	762	770	787	795	800	809	815	825	826	829	834	800	805	802	795
10-11	752	762	770	787	795	802	810	814	824	827	829	833	800	805	802	794
11-12	752	762	769	784	794	801	808	811	821	825	829	831	799	804	800	793
12-13	751	761	764	776	785	792	802	803	811	814	824	828	793	796	791	791
13-14	743	757	758	764	771	781	790	789	798	797	811	823	782	783	779	783
14-15	731	749	750	752	757	771	775	776	783	780	800	813	770	770	766	773
15-16	720	738	742	747	755	766	771	773	773	770	792	805	763	766	758	764
16-17	713	731	739	752	765	772	777	780	777	772	792	802	764	773	760	759
17-18	718	728	742	761	782	783	793	795	789	783	798	811	773	788	768	764
18-19	727	734	751	772	796	800	810	813	802	800	809	821	786	805	782	773
19-20	736	743	761	783	804	815	820	827	811	814	819	830	797	817	792	782
20-21	749	755	768	788	808	821	823	833	817	821	824	836	804	821	799	791
21-22	756	761	771	791	807	815	825	832	823	827	826	837	806	820	803	795
22-23	758	765	773	793	804	813	823	828	826	830	830	838	807	817	805	798
23-24	757	762	774	791	799	809	822	825	829	832	830	839	806	814	806	797
MEAN	746	754	763	779	790	798	806	812	813	815	820	828	794	802	793	787

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION-QUIET DAYS

TABLE 41 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	37.3	38.0	38.3	38.6	38.3	37.7	37.7	38.4	39.0	39.7	39.6	39.4	38.5	38.0	38.9	38.6
1-2	36.8	37.6	37.8	38.0	38.3	38.3	38.1	38.5	38.8	39.3	39.1	39.1	38.3	38.3	38.5	38.1
2-3	36.2	37.1	37.4	37.4	37.4	38.8	38.2	38.3	39.2	39.3	39.2	39.1	38.1	38.2	38.3	37.9
3-4	36.6	37.1	37.2	37.2	37.8	38.7	38.7	38.3	39.2	39.2	39.4	39.2	38.2	38.4	38.2	38.1
4-5	36.5	36.9	36.3	37.0	37.5	38.6	38.5	37.8	38.4	39.1	39.4	39.3	38.0	38.1	37.7	38.0
5-6	36.5	37.0	36.5	36.6	37.0	38.5	37.6	38.0	38.4	39.1	39.7	39.3	37.8	37.8	37.6	38.1
6-7	36.9	36.8	36.7	36.7	37.0	38.7	38.4	37.8	38.1	38.8	39.9	39.1	37.9	38.0	37.6	38.2
7-8	36.5	36.6	36.7	36.4	36.8	38.1	38.7	37.6	38.2	38.3	39.6	38.8	37.7	37.8	37.4	37.9
8-9	36.5	36.6	36.7	35.9	36.3	37.1	38.0	37.4	37.8	37.6	39.4	38.9	37.4	37.2	37.0	37.9
9-10	36.4	36.3	35.8	35.8	35.5	35.8	36.9	36.4	37.4	37.5	39.1	38.5	36.8	36.2	36.6	37.6
10-11	36.6	36.0	35.5	34.9	33.4	33.6	34.2	35.0	37.1	37.4	38.7	38.5	35.9	34.1	36.2	37.4
11-12	35.7	35.9	35.2	33.7	31.1	31.5	32.4	32.2	35.5	36.4	38.3	38.4	34.7	31.8	35.2	37.1
12-13	34.3	35.0	34.7	32.9	29.7	30.3	30.6	29.4	33.7	33.9	37.3	37.6	33.3	30.0	33.8	36.1
13-14	33.6	33.5	33.0	32.9	30.6	31.4	30.3	29.9	32.7	32.3	36.0	36.1	32.7	30.6	32.7	34.8
14-15	33.3	32.3	32.3	35.4	33.4	33.6	32.9	33.3	33.6	32.6	35.8	37.0	33.8	33.3	33.5	34.6
15-16	36.0	32.5	34.3	39.1	37.8	38.3	38.2	39.2	37.4	36.0	38.3	39.6	37.2	38.4	36.7	36.6
16-17	38.2	35.2	37.7	42.4	42.0	43.0	41.9	44.2	41.8	40.4	41.0	41.8	40.8	42.8	40.6	39.1
17-18	41.3	38.7	41.4	44.2	44.5	46.1	44.1	47.2	44.8	44.2	43.3	43.1	43.6	45.5	43.6	41.6
18-19	42.3	41.9	42.8	45.0	45.0	46.7	45.8	48.2	45.6	44.9	44.0	43.2	44.6	46.4	44.5	42.9
19-20	42.2	42.7	42.9	44.5	43.6	45.4	45.0	46.6	44.4	44.2	43.2	42.7	44.0	45.2	44.0	42.7
20-21	41.1	42.0	41.8	42.8	41.2	42.8	43.1	43.3	42.7	42.5	42.0	41.4	42.2	42.6	42.4	41.6
21-22	40.2	40.6	40.9	41.1	39.9	40.3	41.5	40.7	40.8	41.1	41.4	40.7	40.8	40.6	41.0	40.7
22-23	39.4	40.2	39.9	39.6	38.8	38.0	39.6	38.6	40.0	40.5	40.7	40.2	39.6	38.7	40.0	40.1
23-24	38.2	39.1	39.4	38.8	38.3	36.6	38.4	38.2	39.4	39.8	39.9	39.7	38.8	37.9	39.3	39.2
MEAN	37.4	37.3	37.5	38.2	37.6	38.2	38.3	38.5	38.9	38.9	39.8	39.6	38.4	38.2	38.4	38.5

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY-QUIET DAYS

TABLE 42 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	505	502	500	489	494	490	492	484	482	479	484	478	490	490	487	492
1-2	504	501	500	488	494	488	489	484	481	479	483	477	489	489	487	491
2-3	503	502	499	487	494	487	487	483	480	478	483	476	488	488	486	491
3-4	503	502	496	487	493	487	485	483	480	478	483	475	488	487	485	491
4-5	503	501	493	486	489	485	483	482	479	478	483	475	486	485	484	490
5-6	503	500	495	486	490	483	478	481	478	478	483	474	486	483	484	490
6-7	503	499	495	487	491	484	479	482	480	477	483	474	486	484	485	490
7-8	502	498	495	487	491	485	480	482	479	476	482	474	486	485	484	489
8-9	501	499	493	487	491	487	483	481	478	476	482	475	486	486	483	489
9-10	501	499	493	487	493	490	488	481	478	477	482	473	487	488	484	489
10-11	499	498	493	488	494	492	490	484	479	477	481	473	487	490	484	488
11-12	500	498	495	488	494	491	488	485	480	480	482	473	488	489	486	488
12-13	501	499	496	487	493	489	485	484	480	482	482	474	487	488	486	489
13-14	500	498	496	484	492	486	483	481	479	482	480	472	486	486	485	488
14-15	497	497	495	480	485	482	481	480	477	479	478	468	483	482	483	485
15-16	496	495	492	478	479	481	478	479	476	476	477	470	481	479	480	484
16-17	497	491	491	477	478	478	474	479	476	476	478	473	481	477	480	485
17-18	500	491	494	478	479	478	473	481	478	478	481	475	482	478	482	487
18-19	504	495	497	477	485	481	477	483	483	481	485	477	485	481	485	490
19-20	506	500	498	480	489	484	483	485	486	483	487	476	488	485	487	492
20-21	506	504	498	482	491	486	487	487	484	482	485	476	489	487	486	493
21-22	503	503	497	487	493	489	490	488	483	480	484	474	489	490	487	491
22-23	504	503	498	490	493	490	491	488	482	479	484	473	490	491	487	491
23-24	506	501	498	489	492	490	490	484	481	478	483	474	489	489	487	491
MEAN	502	499	496	485	490	486	484	483	480	479	482	474	487	486	485	489

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY-DISTURBED DAYS

TABLE 43 AGINCOURT

H = 15500 PLUS TABULAR VALUES IN GAMMAS

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	733	751	764	764	804	812	822	814	808	816	787	828	792	813	788	775
1-2	729	748	761	756	791	791	814	809	805	801	787	832	785	801	781	774
2-3	724	741	763	754	782	785	800	805	806	799	756	830	779	793	781	763
3-4	727	741	764	759	786	734	796	813	787	803	752	833	775	782	778	764
4-5	727	737	760	764	785	750	801	802	793	789	754	821	774	784	777	760
5-6	730	738	758	761	759	761	792	801	772	775	752	817	768	778	767	759
6-7	723	733	746	760	748	744	801	804	773	783	744	825	765	774	766	756
7-8	723	726	754	731	763	745	791	795	786	783	756	821	765	774	764	756
8-9	724	718	760	744	762	701	787	794	778	801	766	812	762	761	771	755
9-10	715	699	767	762	748	705	795	789	778	816	769	819	763	759	781	750
10-11	700	728	772	771	758	751	795	797	781	794	786	833	772	775	780	762
11-12	715	741	768	760	755	733	794	793	777	808	780	829	771	769	778	766
12-13	737	735	754	756	742	727	786	786	769	812	699	820	760	760	773	748
13-14	728	729	752	752	734	732	780	764	767	776	735	816	755	752	762	752
14-15	712	722	748	735	736	716	768	750	747	719	733	804	741	743	737	743
15-16	707	722	733	726	735	723	766	749	726	738	754	792	739	743	731	744
16-17	710	721	715	737	751	741	771	765	752	752	762	789	747	757	739	745
17-18	721	705	722	747	770	761	789	789	771	749	771	796	758	777	747	748
18-19	727	716	734	755	789	783	805	805	784	765	780	808	771	795	760	758
19-20	732	717	750	776	805	802	830	822	793	792	777	808	784	815	778	759
20-21	734	730	765	786	815	815	828	833	805	803	791	812	793	823	790	767
21-22	744	736	766	802	811	821	841	835	809	793	825	816	800	827	792	780
22-23	744	743	758	791	808	833	841	818	807	785	865	812	801	825	785	791
23-24	743	741	757	765	795	827	822	817	812	791	849	816	795	815	781	787
MEAN	725	730	754	759	772	762	801	798	783	785	772	816	771	783	770	761

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION-DISTURBED DAYS

TABLE 44 AGINCOURT		D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES												1968			
U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER	
0-1	38.6	42.2	36.3	38.6	34.5	31.8	37.5	33.2	35.9	39.1	36.0	38.3	36.8	34.2	37.5	38.8	
1-2	37.9	37.0	33.4	37.1	32.9	33.8	33.9	35.2	34.0	37.6	29.9	37.9	35.0	33.9	35.5	35.7	
2-3	36.0	35.8	34.9	34.7	34.3	35.0	35.8	33.1	32.9	35.8	41.0	38.2	35.6	34.5	34.6	37.8	
3-4	37.2	34.8	33.8	33.5	35.3	37.6	38.0	33.4	35.4	36.8	37.5	38.4	36.0	36.1	34.9	37.0	
4-5	37.9	33.8	35.3	35.9	35.3	41.0	36.4	35.1	38.7	36.5	39.4	39.9	37.1	36.9	36.6	37.8	
5-6	35.9	34.9	37.0	36.6	35.9	31.6	36.9	37.9	41.9	37.0	43.3	41.0	37.5	35.6	38.1	38.8	
6-7	36.1	36.6	38.9	37.4	35.8	36.7	36.8	38.0	40.0	35.8	43.2	40.1	37.9	36.8	38.0	39.0	
7-8	33.7	35.0	33.1	38.3	34.0	38.8	37.3	39.5	39.0	38.3	43.6	37.8	37.4	37.4	37.2	37.5	
8-9	35.5	34.2	33.3	37.4	34.6	37.3	40.4	40.6	35.9	37.8	40.6	38.3	37.1	38.2	36.1	37.1	
9-10	36.2	36.5	35.9	33.8	34.8	38.8	38.3	43.2	36.0	36.1	41.5	37.4	37.4	38.8	35.4	37.9	
10-11	41.8	41.7	36.5	33.6	31.4	33.5	32.7	36.8	36.3	41.7	38.7	34.3	36.6	33.6	37.0	39.1	
11-12	41.4	39.5	35.0	36.8	31.1	35.3	30.3	32.8	36.2	42.2	43.1	36.5	36.7	32.4	37.5	40.1	
12-13	36.4	40.1	36.5	36.4	32.3	34.7	30.7	31.0	36.8	36.4	46.7	39.1	36.4	32.2	36.5	40.6	
13-14	34.8	42.3	36.3	32.7	35.7	34.9	33.6	32.7	38.2	35.2	46.5	37.8	36.7	34.2	35.6	40.3	
14-15	38.4	41.6	32.7	32.9	40.1	35.4	33.1	36.1	39.7	41.2	42.2	40.1	37.8	36.2	36.6	40.6	
15-16	40.5	40.7	35.7	38.1	42.0	40.7	36.9	42.5	44.5	41.1	43.7	42.5	40.7	40.5	39.8	41.9	
16-17	42.2	40.4	39.4	42.6	44.7	42.7	40.2	44.4	48.3	40.5	44.5	44.3	42.9	43.0	42.7	42.8	
17-18	44.1	42.0	43.1	43.2	45.5	43.3	42.9	45.5	47.1	48.0	44.4	44.9	44.5	44.3	45.4	43.8	
18-19	44.3	45.6	44.1	45.2	44.1	44.5	45.5	46.6	46.8	47.7	45.1	44.1	45.3	45.1	46.0	44.8	
19-20	43.5	44.5	44.3	44.4	42.9	43.4	46.4	45.6	44.8	47.0	45.4	43.0	44.6	44.6	45.1	44.1	
20-21	41.7	43.7	43.6	43.3	40.4	41.9	44.5	43.1	42.0	45.2	43.6	43.0	43.0	42.5	43.5	43.0	
21-22	40.6	41.4	42.1	41.9	38.6	39.6	42.4	39.4	40.5	43.4	41.8	41.8	41.1	40.0	42.0	41.4	
22-23	40.4	40.7	39.5	39.3	36.9	37.0	39.8	39.1	39.1	41.4	45.2	41.1	40.0	38.2	39.8	41.9	
23-24	39.1	41.5	37.8	39.2	37.5	35.8	37.8	38.0	37.5	39.5	37.3	39.0	38.3	37.3	38.5	39.2	
MEAN	38.9	39.4	37.4	38.0	37.1	37.7	37.8	38.4	39.5	40.1	41.8	40.0	38.9	37.8	38.8	40.0	

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY-DISTURBED DAYS

TABLE 45 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

1968

U.T.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	SUMMER	EQUINOX	WINTER
0-1	527	534	511	516	509	526	497	510	518	493	527	483	513	511	510	518
1-2	533	546	507	514	498	515	489	498	508	488	544	479	510	500	504	526
2-3	534	536	508	509	486	497	483	495	488	485	516	477	501	490	498	516
3-4	523	518	502	498	487	407	471	478	472	487	509	471	485	461	490	505
4-5	514	506	489	495	475	406	464	454	471	471	487	463	474	449	481	493
5-6	510	506	463	484	440	430	459	438	441	450	456	471	462	442	460	486
6-7	496	499	443	474	427	401	465	444	432	437	453	475	454	434	446	481
7-8	475	481	449	457	454	384	460	438	437	435	444	473	449	434	444	468
8-9	461	469	465	454	459	340	447	452	445	436	444	458	444	425	450	458
9-10	447	446	475	478	455	378	462	458	450	446	453	444	449	438	462	448
10-11	444	449	479	488	467	412	471	469	455	418	473	452	456	455	460	455
11-12	446	454	481	485	465	416	476	477	459	405	478	459	458	459	457	459
12-13	485	474	482	477	465	428	477	476	451	438	467	462	465	461	462	472
13-14	493	487	482	482	468	453	474	474	459	451	480	461	472	467	468	480
14-15	497	491	483	481	471	462	476	471	466	458	477	460	474	470	472	481
15-16	502	493	481	487	470	481	481	477	475	469	497	467	482	477	478	490
16-17	506	494	484	495	488	494	482	484	484	494	505	474	490	487	489	495
17-18	508	499	493	503	499	505	488	491	494	507	510	479	498	496	499	499
18-19	509	516	500	507	507	518	495	502	503	517	509	484	506	505	507	504
19-20	511	523	509	522	518	534	508	504	501	527	521	485	514	516	515	510
20-21	512	525	518	536	533	545	509	515	498	526	527	487	519	525	520	513
21-22	515	532	522	553	540	545	514	525	499	509	532	489	523	531	521	517
22-23	516	544	522	550	538	545	525	513	495	505	515	492	522	530	518	517
23-24	517	549	516	521	527	551	514	508	495	505	523	491	518	525	509	520
MEAN	499	503	490	499	485	466	483	481	475	473	494	472	485	479	484	492

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 46 AGINCOURT

H = 16000 PLUS TABULAR VALUES IN GAMMAS

JANUARY 1969

HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
DAY	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1	331	330	326	331	335	335	337	341	336	336	336	341	337	330	319	314	306	311	320	325	326	330	340	341	330	
2	340	340	337	336	347	341	342	342	345	346	345	342	336	329	317	310	314	321	332	337	341	342	345	345	336	
3	Q	345	346	347	346	347	347	348	350	350	350	348	347	343	334	325	322	325	333	340	337	336	341	342	344	341
4		342	344	347	347	347	347	348	349	351	348	345	341	337	331	321	315	319	326	334	337	342	344	345	343	340
5		342	345	342	341	345	343	345	347	348	348	348	347	342	334	325	314	310	320	334	337	339	342	346	347	339
6	Q	347	347	346	345	346	346	345	346	347	347	346	345	342	332	319	313	314	319	330	340	342	347	351	351	340
7		350	349	348	350	354	356	357	357	357	347	341	331	335	335	319	303	299	303	309	320	341	349	342	341	337
8		337	336	337	336	330	337	336	330	340	342	340	335	324	305	291	293	304	314	320	330	339	337	337	334	328
9		342	343	341	342	342	342	341	341	341	340	340	340	335	325	308	298	298	313	325	335	341	345	347	343	334
10	Q	347	349	348	347	347	345	346	342	343	345	346	343	336	330	314	293	290	303	317	335	344	348	347	347	336
11		348	348	348	348	348	347	345	342	344	343	346	342	341	332	319	314	314	325	337	342	348	347	351	352	341
12		352	348	350	346	347	342	345	341	340	337	341	343	342	334	311	304	301	303	313	320	327	333	337	342	333
13	Q	344	345	345	343	343	342	344	345	346	347	347	345	339	330	320	310	309	320	335	342	346	347	349	349	339
14		340	332	340	340	338	345	342	340	340	341	340	345	342	337	331	321	320	325	329	335	340	340	336	342	337
15	D	335	328	335	335	329	341	336	336	335	339	341	344	341	334	326	318	319	326	313	314	335	344	344	341	333
16		344	340	341	340	340	336	340	341	341	346	340	346	342	329	333	319	320	324	331	335	338	345	350	340	338
17	D	328	336	329	331	331	319	332	336	329	326	332	340	335	331	328	319	319	310	309	319	333	331	328	328	327
18	D	315	331	342	336	333	325	325	320	340	341	341	328	341	340	321	309	303	299	313	321	329	328	335	342	327
19		331	345	339	334	339	341	339	335	333	326	331	340	334	329	325	316	310	313	313	324	329	329	335	345	331
20		346	346	338	351	340	340	336	340	340	341	344	343	340	333	329	319	319	319	328	330	339	340	334	335	336
21		345	345	331	341	344	340	341	345	346	342	340	345	341	335	326	318	315	321	329	344	347	347	348	348	339
22		347	346	350	350	350	350	349	345	344	347	347	344	336	329	325	324	324	333	339	346	347	349	350	343	
23		350	350	351	350	347	346	350	346	349	350	350	347	346	339	324	309	312	323	336	347	357	361	356	358	344
24		361	356	355	352	353	354	356	356	357	358	357	351	336	319	304	312	324	324	333	326	313	323	324	340	
25	D	310	303	320	324	325	331	312	296	303	325	329	330	324	321	326	310	256	260	292	297	308	325	336	331	312
26	D	286	304	332	335	338	334	334	338	339	342	343	333	322	330	318	308	297	296	307	323	334	333	328	333	324
27		339	340	339	338	341	340	333	329	334	328	334	335	334	314	327	312	297	303	312	312	317	330	334	327	327
28		330	333	340	337	339	337	339	339	340	344	343	341	339	333	325	316	309	313	327	330	333	334	335	339	333
29	Q	340	342	342	340	343	345	345	346	346	345	345	346	345	340	333	323	317	318	325	328	334	344	349	350	339
30		338	345	346	345	349	348	345	348	346	349	341	355	351	346	342	334	319	319	328	334	340	348	350	352	342
31		351	351	349	349	351	349	349	349	349	344	340	347	348	340	344	323	312	317	322	322	323	336	340	343	340
MEAN A		339	340	341	342	342	342	341	341	342	342	342	342	339	332	323	313	309	314	323	330	336	340	342	342	335
MEAN Q		345	346	346	344	345	345	346	346	346	347	346	345	341	333	322	312	311	319	330	336	340	345	348	348	339
MEAN D		315	320	332	332	331	330	328	325	329	334	337	335	333	331	324	313	299	298	307	315	328	332	335	335	325

DECLINATION

TABLE 47 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

JANUARY 1969

HOUR UT DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	39.2	38.1	36.4	39.3	39.4	40.0	40.3	39.2	39.3	39.5	43.2	39.5	38.0	36.9	39.2	41.3	43.5	44.9	44.9	43.6	42.8	41.6	40.3	40.2	40.4
2	39.4	39.5	40.0	38.5	38.2	40.7	40.2	39.6	39.5	39.3	39.3	39.2	38.5	36.4	36.3	39.2	41.3	42.4	42.5	41.5	41.3	40.4	40.2	40.1	39.7
3	Q 39.8	39.6	39.6	39.7	39.8	40.0	39.6	39.4	39.2	38.5	38.3	38.1	37.6	36.2	37.5	40.4	42.1	42.6	41.6	40.8	40.7	40.7	40.3	40.2	39.7
4	40.1	39.6	40.1	40.4	40.3	40.3	40.1	39.6	39.3	38.1	37.4	37.5	37.5	36.1	38.1	41.2	42.6	43.4	42.6	41.7	41.3	40.3	39.8	39.5	39.9
5	39.2	39.3	39.4	40.3	40.7	41.2	39.5	39.3	39.0	38.6	38.2	38.2	37.8	37.1	37.4	40.2	42.1	43.4	42.8	41.5	40.6	40.4	40.3	40.1	39.9
6	Q 39.5	39.4	39.5	39.6	39.9	40.1	39.5	39.3	39.1	38.4	38.2	37.9	37.1	36.6	38.1	41.4	44.3	44.9	44.3	42.3	40.5	40.1	39.5	39.2	39.9
7	39.1	39.0	39.0	38.3	38.3	39.8	39.4	39.2	37.7	35.4	34.1	35.2	38.2	32.8	36.7	39.1	41.6	44.4	46.6	47.7	43.8	41.7	40.7	40.0	39.5
8	38.2	38.3	37.3	38.9	39.2	38.9	39.1	40.0	41.4	38.1	38.0	37.8	37.2	36.0	36.3	38.2	41.1	43.3	43.6	45.2	44.1	43.0	41.6	41.3	39.8
9	39.6	38.0	38.1	38.9	39.1	39.3	39.3	39.2	39.4	38.4	38.3	38.1	37.1	35.8	36.0	38.3	41.2	44.3	45.2	44.1	42.7	41.3	41.2	40.1	39.7
10	Q 39.1	39.1	39.2	39.3	39.0	38.9	39.0	39.0	39.1	38.5	38.1	37.2	37.6	35.2	34.7	38.3	42.1	44.7	44.6	44.2	42.1	40.5	39.9	39.3	39.5
11	39.3	39.1	38.9	39.1	39.1	39.2	39.1	38.9	37.4	37.2	37.2	36.9	35.4	34.2	37.7	39.3	42.4	44.8	45.9	44.8	43.6	42.4	41.3	40.2	39.7
12	39.1	38.4	38.5	39.2	38.6	39.3	39.2	38.3	37.9	36.3	38.4	35.6	34.6	34.0	36.2	41.3	43.7	46.8	45.9	43.4	41.6	41.4	40.4	40.2	39.5
13	Q 39.5	39.2	39.3	39.3	39.3	39.5	39.9	40.0	39.4	38.6	38.5	39.3	38.0	36.0	35.1	37.7	41.2	43.6	43.7	42.6	41.4	40.7	40.3	40.0	39.7
14	38.5	36.9	38.2	39.2	39.0	40.1	40.1	41.4	39.3	36.4	38.1	38.3	37.2	36.1	35.8	37.2	41.4	42.9	43.3	42.5	42.8	42.9	44.2	42.5	39.8
15	D 41.9	42.2	40.4	39.4	38.4	39.5	38.6	38.3	38.3	38.3	37.2	36.2	35.5	35.5	35.5	37.2	40.7	42.8	46.0	46.8	44.7	43.4	42.3	40.4	40.0
16	39.5	39.5	39.3	39.5	40.7	38.4	38.3	40.0	38.3	39.1	39.2	37.3	35.1	40.5	36.3	40.9	42.3	42.8	42.5	41.9	41.5	41.2	40.8	40.0	39.8
17	D 39.3	42.5	36.2	37.7	38.1	33.3	39.4	40.5	37.9	43.3	40.5	37.6	38.0	39.2	35.5	39.8	39.7	42.7	43.2	45.4	41.9	41.9	41.7	41.5	39.9
18	D 39.4	39.5	38.3	38.7	40.4	38.5	40.3	42.9	40.6	39.4	37.5	45.8	40.5	36.1	36.8	38.2	41.5	42.8	42.8	43.3	41.6	42.3	41.6	40.8	40.4
19	37.4	35.2	39.2	39.4	38.6	38.6	39.3	38.6	38.4	40.5	38.0	38.4	37.0	36.1	36.6	37.5	40.5	41.7	43.4	42.8	43.4	43.4	41.5	40.5	39.4
20	39.6	39.7	38.2	34.3	38.5	39.6	39.7	42.2	38.7	39.5	39.5	38.5	38.3	36.4	37.5	38.8	41.7	44.0	44.9	43.8	42.9	41.7	41.6	39.7	40.0
21	39.7	39.7	39.4	40.2	39.8	40.6	41.8	40.5	39.3	39.4	40.1	37.5	36.6	36.3	36.7	39.3	41.5	43.6	43.8	41.7	40.6	40.6	40.5	40.2	40.0
22	39.7	39.4	38.8	40.4	40.7	40.2	39.8	39.7	39.6	39.2	38.4	38.5	38.2	36.7	37.2	39.7	41.8	43.5	43.6	42.8	42.4	41.8	41.7	40.7	40.2
23	40.1	39.4	39.2	39.4	39.4	39.7	40.4	39.6	39.5	38.5	37.8	37.6	37.5	35.1	35.0	38.4	43.8	46.8	46.2	44.8	43.6	42.6	41.4	39.8	40.2
24	39.0	38.6	39.2	39.4	39.6	39.5	39.4	39.2	38.3	38.2	38.2	36.3	38.6	39.4	42.7	47.9	47.9	46.0	45.8	46.8	44.2	44.7	40.5	41.2	39.7
25	D 39.1	31.1	36.1	39.1	38.3	39.2	39.3	41.6	45.0	41.8	37.4	42.7	44.7	44.5	44.8	42.7	42.7	46.8	48.3	47.8	45.7	42.5	40.2	39.6	41.7
26	D 19.1	21.3	40.3	34.2	38.2	40.3	41.7	41.2	40.2	39.5	38.3	40.2	47.5	39.3	38.2	39.4	41.4	43.6	44.6	43.5	42.7	42.4	42.7	41.4	39.2
27	39.6	39.2	38.9	39.0	39.6	38.0	39.8	41.3	39.7	38.2	40.0	39.3	41.4	40.0	38.0	41.2	42.4	43.5	43.3	44.4	43.5	42.4	41.4	40.0	40.6
28	39.2	38.4	35.2	38.9	39.0	39.1	39.5	39.7	39.9	39.4	40.1	39.2	38.7	36.7	35.6	38.0	40.7	42.6	43.3	43.1	42.6	42.2	41.1	40.1	39.7
29	Q 39.5	39.0	38.8	39.1	39.1	39.5	39.8	39.8	39.3	39.4	39.3	39.0	38.1	36.9	35.7	36.9	40.0	42.8	43.3	43.0	42.2	41.9	40.8	39.8	39.7
30	38.8	38.8	38.9	39.1	37.2	38.0	39.1	39.8	39.1	42.3	41.1	37.9	36.9	35.8	34.6	35.9	39.0	41.3	42.2	42.1	41.8	41.7	41.0	40.0	39.3
31	39.0	38.8	38.9	39.1	39.2	39.5	39.8	39.9	39.9	38.1	38.6	39.9	37.7	39.9	37.8	40.5	44.5	45.0	42.2	42.1	42.1	41.8	41.3	40.0	40.2
MEAN A	38.7	38.2	38.7	38.9	39.2	39.3	39.7	39.9	39.3	38.9	38.6	38.5	38.1	36.9	37.0	39.4	42.0	43.9	44.1	43.6	42.6	41.8	41.2	40.3	39.9
MEAN Q	39.5	39.2	39.3	39.4	39.4	39.6	39.6	39.5	39.2	38.7	38.5	38.3	37.7	36.2	36.2	38.9	42.0	43.7	43.5	42.6	41.4	40.8	40.2	39.7	39.7
MEAN D	35.8	35.3	38.3	37.8	38.7	38.2	39.9	40.9	40.4	40.5	38.2	40.5	41.2	38.9	38.2	39.4	41.2	43.7	45.0	45.4	43.3	42.5	41.7	40.7	40.2

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

VERTICAL INTENSITY

TABLE 48 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

JANUARY 1969

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		477	476	475	475	472	474	471	466	469	469	470	469	471	471	469	469	470	472	473	470	472	476	476	474	472
2		475	473	471	471	466	470	471	471	471	471	471	471	471	471	468	471	474	476	473	469	469	471	471	471	471
3	Q	472	471	470	469	469	468	470	470	468	468	468	469	470	470	467	468	468	471	469	470	468	468	470	469	469
4		471	471	470	469	469	469	470	469	469	467	467	467	468	467	466	469	473	475	474	473	472	472	472	472	470
5		473	473	471	471	468	471	472	472	471	470	470	470	473	473	472	474	474	479	478	476	472	472	472	470	472
6	Q	471	470	470	469	469	469	470	469	469	469	469	470	470	468	468	474	478	479	479	472	469	469	469	469	471
7		470	469	469	468	468	467	467	467	463	461	462	460	456	456	459	463	469	474	475	479	477	474	470	474	467
8		475	474	475	474	475	475	474	474	467	468	471	470	471	469	463	463	468	473	474	474	475	477	475	476	472
9		478	476	476	475	474	474	474	474	474	472	474	472	472	470	464	472	475	476	475	476	475	475	474	473	474
10	Q	474	470	470	469	470	470	470	470	470	470	470	469	470	467	464	464	470	476	479	482	476	472	472	471	471
11		472	472	471	471	471	471	471	471	471	471	472	471	471	471	470	472	476	476	476	477	476	473	473	472	472
12		472	471	470	469	469	470	469	471	470	471	465	461	466	465	461	465	465	472	477	479	477	476	475	473	470
13	Q	473	471	471	471	471	471	471	471	471	469	467	466	467	466	467	472	472	471	471	471	470	469	471	471	470
14		471	472	471	471	471	465	460	459	456	465	465	465	467	467	463	460	464	469	473	476	472	472	477	477	468
15	D	481	488	488	485	483	479	473	473	472	467	465	468	468	465	464	465	471	472	472	479	477	472	472	473	474
16		475	475	472	472	472	475	477	475	472	471	465	467	460	461	455	458	464	467	468	467	469	471	471	472	469
17	D	476	477	479	478	478	475	483	477	471	458	448	463	465	465	462	463	465	461	470	475	479	477	478	483	471
18	D	485	482	477	475	471	469	465	452	459	465	466	454	458	460	454	454	461	471	477	476	477	481	478	476	469
19		477	472	476	475	472	470	469	471	468	461	455	464	465	465	460	457	461	466	467	471	471	476	476	475	468
20		473	472	472	468	466	470	468	470	467	469	468	467	466	462	455	454	460	466	472	473	474	473	474	476	468
21		476	474	473	473	472	470	468	468	470	467	466	467	467	466	462	462	465	468	470	470	466	468	468	469	469
22		467	467	466	465	465	467	466	466	464	461	464	465	465	464	461	460	459	464	467	469	471	467	467	467	465
23		467	466	466	465	465	465	465	467	467	465	465	465	465	464	457	452	455	460	465	466	465	465	463	464	464
24		464	464	463	464	464	464	464	464	463	463	461	461	463	466	459	459	461	470	475	481	493	500	494	489	470
25	D	489	501	481	476	465	458	448	424	416	434	441	447	452	458	451	451	458	485	488	497	504	497	486	481	466
26	D	486	492	488	467	464	469	473	474	474	473	470	467	464	464	457	459	464	467	470	474	475	475	476	477	472
27		477	474	473	470	466	455	457	447	438	445	450	458	464	468	465	459	468	476	478	476	474	479	481	479	466
28		479	477	473	473	472	473	473	473	473	473	470	470	471	470	462	462	467	470	470	469	468	472	474	473	471
29	Q	473	471	469	469	469	469	469	469	468	468	468	468	467	465	462	461	464	466	469	470	468	468	468	468	468
30		467	468	466	465	462	462	463	465	463	455	445	455	461	462	461	457	456	457	457	462	462	464	465	464	461
31		464	463	463	462	462	462	462	462	458	457	458	457	457	455	452	451	461	466	464	467	467	472	472	468	462
MEAN A		474	474	472	471	469	469	468	467	465	465	464	465	466	466	462	462	466	471	472	474	474	474	473	473	469
MEAN Q		473	471	470	469	470	469	470	470	469	469	468	468	469	468	466	466	469	473	473	474	471	469	470	469	470
MEAN D		483	488	483	476	472	470	468	460	458	459	458	460	462	462	458	459	464	471	475	480	482	481	478	478	470

HORIZONTAL INTENSITY

TABLE 49 AGINCOURT

H = 16000 PLUS TABULAR VALUES IN GAMMAS

FEBRUARY 1969

DAY	HR UT	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1	Q	346	350	348	345	345	347	347	350	351	350	348	347	346	342	330	316	313	314	324	331	334	345	350	351	340
2	D	352	354	354	353	353	352	352	353	356	353	351	347	346	341	330	314	340	344	228	180	338	357	367	462	341
3	D	358	316	276	262	263	263	263	242	231	274	292	294	275	264	288	285	285	284	264	280	297	322	298	314	283
4		317	320	314	318	322	319	322	324	328	324	328	329	327	319	313	303	300	308	319	329	340	346	334	341	323
5		329	318	329	330	328	329	329	329	327	324	323	330	332	323	308	297	296	302	313	331	337	341	333	335	324
6		339	338	329	326	335	327	335	344	335	333	336	340	331	321	311	303	302	308	322	337	341	346	340	329	329
7		343	344	344	343	341	343	341	341	344	344	343	339	339	330	313	306	308	321	329	333	340	345	346	339	336
8		327	334	344	340	339	336	334	334	337	339	343	343	338	323	306	299	294	296	323	340	345	343	339	345	331
9	Q	349	349	345	345	345	344	344	344	347	348	345	344	341	329	316	309	307	312	327	337	343	345	349	351	338
10		353	346	345	347	349	347	347	345	344	345	348	344	340	332	318	300	287	295	315	332	349	334	329	310	333
11	D	338	317	303	315	315	317	301	311	328	300	269	301	251	252	242	209	182	230	271	308	360	360	323	323	293
12		312	317	321	318	316	317	317	317	318	321	321	322	321	319	312	305	302	310	322	323	324	328	332	304	318
13		312	316	321	328	328	327	327	326	323	324	333	334	328	317	307	318	314	316	317	324	323	316	325	339	323
14		342	344	340	328	338	338	338	338	343	340	340	338	344	343	329	322	319	321	325	333	337	344	328	321	335
15	D	332	340	333	350	336	335	330	337	340	338	339	351	348	338	327	323	317	318	326	321	334	338	337	337	334
16		338	343	345	343	343	342	348	335	333	345	345	343	338	328	318	311	311	321	328	333	339	343	345	346	336
17	Q	349	350	348	348	348	347	344	344	344	344	344	344	338	324	310	304	307	318	329	338	343	351	354	350	338
18	Q	350	351	351	353	353	354	354	355	354	354	354	350	344	329	319	314	322	339	356	364	359	356	354	354	348
19		354	359	356	359	357	356	357	357	359	360	359	347	341	327	322	320	321	333	345	350	344	355	355	356	348
20		356	355	354	347	330	341	349	354	354	355	354	357	349	337	322	311	310	316	327	338	344	346	349	349	342
21		334	347	352	353	353	354	353	346	353	353	354	350	347	332	317	306	305	311	316	336	343	352	356	356	341
22	Q	355	357	357	356	356	355	359	359	359	359	360	360	353	337	326	316	311	317	328	341	344	349	355	360	347
23		360	358	358	357	357	365	359	356	355	355	352	356	349	344	333	320	311	311	319	328	342	353	360	360	347
24		355	354	359	358	354	355	358	355	353	359	359	359	353	339	328	325	317	320	327	334	343	349	354	357	347
25		359	344	352	355	357	357	359	359	359	359	358	354	349	343	333	326	319	316	322	331	337	348	348	353	346
26		353	353	359	357	343	353	364	364	363	359	359	353	344	337	322	321	321	317	320	328	345	349	349	353	347
27	D	354	355	352	369	348	355	350	349	360	416	364	360	366	349	298	273	267	284	301	307	315	310	317	327	335
28		332	336	337	337	344	343	344	339	349	346	342	342	333	332	326	322	310	315	337	341	343	350	327	324	336
MEAN A		343	342	340	341	339	340	340	339	341	344	342	343	337	328	316	306	303	310	317	325	339	343	341	344	333
MEAN Q		350	351	350	349	349	349	350	350	351	351	350	349	344	332	320	312	312	320	333	342	345	349	352	353	342
MEAN D		347	336	324	330	323	324	319	318	323	336	323	331	317	309	297	281	278	292	278	279	329	337	328	352	317

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

DECLINATION

TABLE 50 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

FEBRUARY 1969

DAY	HCUR UT TO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
		TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	24	
1	Q	40.1	39.6	39.8	40.0	39.8	40.0	40.0	39.4	39.6	39.3	38.9	38.2	37.5	36.1	33.8	36.3	39.6	41.5	42.0	42.4	41.5	41.4	41.3	40.8	39.5	
2	D	40.4	40.3	40.3	40.2	40.1	39.7	39.7	39.8	41.7	39.4	38.3	39.0	37.3	34.8	33.7	35.9	39.6	41.3	44.6	58.0	52.1	55.5	48.2	49.9	42.1	
3	D	42.9	40.8	36.4	34.4	36.2	37.2	38.2	41.1	48.5	39.2	36.4	38.6	40.2	44.8	41.5	38.3	42.4	44.9	50.0	52.0	51.0	43.8	48.0	43.6	42.1	
4		41.7	39.6	39.6	40.1	40.2	39.5	39.3	40.2	39.0	38.6	36.8	36.3	35.3	35.0	35.0	36.1	38.3	42.4	45.8	45.9	44.6	44.9	43.5	47.5	40.2	
5		46.0	41.7	38.7	40.8	40.3	40.3	40.9	42.1	39.0	38.3	39.0	38.7	35.2	32.8	33.9	38.2	41.5	43.8	44.2	43.2	42.7	41.4	40.4	41.2	40.2	
6		39.7	39.3	35.0	31.9	33.9	36.1	40.3	39.4	36.4	37.1	40.7	37.4	35.9	34.9	36.1	39.3	42.4	44.5	44.7	43.8	42.3	41.9	40.5	39.4	38.9	
7		40.3	40.1	40.2	40.3	40.2	39.5	39.4	41.4	37.4	37.5	36.9	40.2	36.1	33.3	36.3	41.5	45.4	45.8	46.4	48.8	45.8	43.5	43.2	43.8	41.0	
8		42.6	40.5	39.3	39.3	40.0	39.0	40.3	39.3	38.2	38.1	37.2	37.1	35.7	34.1	35.2	38.1	41.6	46.9	48.2	45.9	43.8	42.6	41.7	41.0	40.2	
9	Q	40.1	40.3	40.4	40.1	39.5	39.2	39.3	38.9	38.4	38.2	38.2	38.2	37.1	34.9	35.1	38.8	41.4	43.8	45.4	44.9	43.5	42.8	41.6	41.3	40.1	
10		41.3	41.2	38.9	39.3	39.5	39.9	39.6	39.7	39.8	39.6	37.2	36.7	36.1	34.8	33.8	36.2	40.5	43.8	45.5	45.8	45.9	48.0	48.1	48.1	40.8	
11	D	38.4	32.4	31.8	39.6	39.5	38.2	45.7	50.7	40.7	55.2	70.5	57.7	56.4	57.2	49.9	53.1	58.5	54.2	49.6	49.6	43.5	43.2	45.7	43.3	47.7	
12		46.0	41.2	38.6	38.8	38.2	39.3	38.9	39.2	38.2	38.2	38.3	38.4	38.7	38.4	39.5	41.4	42.3	43.6	44.4	42.6	42.7	42.7	43.6	38.1	40.5	
13		40.6	40.4	39.7	40.0	39.4	40.2	40.3	38.5	39.4	39.3	38.9	38.4	37.2	35.9	38.6	40.6	40.5	41.5	42.5	42.9	43.0	43.2	43.2	42.6	40.3	
14		41.4	40.5	41.2	38.4	40.8	40.2	39.5	39.4	39.5	38.9	39.0	40.4	38.1	36.5	37.1	38.3	40.5	42.8	43.7	43.3	43.5	43.2	43.2	41.5	40.5	
15	D	42.9	40.3	39.5	29.7	39.1	38.2	37.4	39.1	37.5	37.5	39.5	38.9	36.2	34.3	37.1	36.6	39.0	42.7	45.8	49.7	50.1	45.9	44.6	42.8	40.2	
16		41.8	40.4	40.9	40.3	40.0	40.4	40.6	37.2	41.7	38.1	38.2	38.4	38.4	37.4	37.2	38.6	42.5	44.1	44.1	42.9	41.6	40.6	41.5	41.7	40.4	
17	Q	41.4	40.6	40.4	40.0	40.6	40.6	40.4	40.4	38.6	36.7	36.9	36.7	36.4	35.3	36.3	38.7	42.7	44.5	45.6	45.0	43.5	41.6	41.6	41.8	40.3	
18	Q	41.5	40.9	40.7	40.5	40.5	40.5	40.4	40.2	39.7	39.5	38.9	38.4	36.9	35.2	36.0	38.1	40.9	43.6	44.8	44.0	41.6	40.5	41.4	41.6	40.3	
19		40.9	40.6	40.5	39.7	38.4	40.3	39.7	40.3	39.5	38.2	37.3	36.3	38.5	38.6	36.9	40.2	43.7	45.6	45.7	45.8	45.1	42.6	41.8	41.6	40.7	
20		41.0	40.5	40.4	39.7	35.4	39.1	40.4	40.5	39.1	38.5	38.3	36.5	36.3	36.4	36.3	37.5	41.8	46.1	47.8	46.6	45.0	43.4	41.8	41.5	40.4	
21		40.6	38.7	39.8	40.3	40.4	39.3	38.5	39.5	39.6	38.4	38.4	37.5	36.2	33.6	34.2	37.5	41.7	44.9	46.3	46.1	44.2	42.8	41.9	41.8	40.1	
22	Q	41.6	40.8	40.6	40.7	40.7	40.5	40.4	40.3	39.7	39.0	38.5	37.4	35.5	33.4	33.4	36.6	41.5	45.0	47.0	46.3	44.3	42.8	41.8	41.7	40.4	
23		40.7	40.6	40.4	39.6	39.9	38.5	40.6	39.2	38.7	38.2	40.4	38.4	37.1	36.2	35.2	34.5	37.8	42.0	46.0	46.1	45.1	43.8	41.9	41.4	40.1	
24		40.8	39.5	39.5	40.2	40.4	39.2	39.6	39.2	40.5	39.3	38.3	37.4	36.0	33.2	33.4	36.4	39.3	43.0	43.9	44.9	44.7	43.8	42.7	41.9	39.9	
25		41.6	38.5	38.0	39.6	40.6	40.8	40.4	40.0	40.7	38.5	38.4	38.5	36.8	35.3	35.2	36.8	39.2	41.6	43.9	45.0	44.8	44.2	43.4	42.8	40.2	
26		41.7	41.2	39.6	38.2	36.6	39.6	40.3	39.6	42.4	38.4	36.0	35.3	35.5	34.2	33.9	35.4	38.5	41.3	45.1	45.6	44.1	42.0	41.6	41.4	39.5	
27	D	40.8	40.4	34.4	39.9	38.7	39.6	38.6	39.6	39.2	38.4	37.7	38.0	36.2	31.7	24.6	35.3	39.3	46.9	49.2	47.3	46.3	45.3	44.7	42.8	39.8	
28		41.4	41.5	40.6	40.8	40.6	39.6	42.7	41.0	38.5	37.4	37.5	37.2	36.4	36.6	35.4	38.5	41.6	45.4	43.5	43.8	43.6	43.5	40.5	41.8	40.4	
MEAN A		41.4	40.1	39.1	39.0	39.3	39.4	40.0	40.2	39.7	39.0	39.3	38.6	37.5	36.2	35.9	38.3	41.6	44.2	45.6	46.0	44.6	43.6	43.0	42.4	40.6	
MEAN Q		40.9	40.4	40.4	40.3	40.2	40.2	40.1	39.8	39.2	38.5	38.3	37.8	36.7	34.9	34.9	37.7	41.2	43.7	45.0	44.5	42.9	41.8	41.5	41.4	40.1	
MEAN D		41.1	38.8	36.5	36.8	38.7	38.6	39.9	42.1	41.5	41.9	44.5	42.4	41.3	40.6	37.3	39.8	43.8	46.0	47.8	51.3	48.6	46.7	46.3	44.5	42.4	

VERTICAL INTENSITY

TABLE 51 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

FEBRUARY 1969

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1	Q	468	467	464	464	464	464	464	464	464	464	463	463	464	463	457	457	463	465	465	468	468	469	468	467	465
2	D	465	464	463	463	463	463	463	463	460	456	458	459	462	458	447	447	456	452	490	580	574	620	634	678	493
3	D	686	636	592	555	522	510	499	470	454	452	459	457	457	446	454	470	479	483	498	521	520	574	509	499	508
4		493	488	487	486	484	486	482	480	481	481	481	483	481	478	471	474	475	475	480	481	481	485	487	493	482
5		506	524	501	489	484	481	478	482	476	481	478	481	482	480	475	476	481	482	486	488	483	482	479	481	485
6		481	481	481	469	464	459	470	476	476	478	476	476	481	476	471	470	475	477	479	482	481	481	478	482	476
7		479	477	476	476	475	476	475	473	475	475	471	469	469	465	461	460	467	470	471	473	476	477	477	481	473
8		488	487	482	477	475	470	472	476	476	476	472	473	477	472	466	465	467	476	482	484	482	478	477	477	476
9	Q	477	477	477	476	476	474	473	473	472	471	470	471	472	472	470	466	472	476	477	479	478	477	476	475	474
10		477	478	477	475	473	472	472	471	470	468	466	467	472	467	463	464	467	474	474	479	484	488	509	530	477
11	D	574	532	528	497	483	472	455	409	390	329	305	361	385	401	431	460	497	540	566	590	619	577	529	514	477
12		529	506	495	491	491	490	489	490	488	486	484	483	479	477	473	477	480	483	484	486	484	484	484	491	488
13		495	496	494	490	486	486	483	478	478	478	477	482	480	476	474	477	478	478	478	483	483	484	484	484	483
14		483	482	483	486	486	482	480	480	480	478	476	474	472	469	466	466	467	468	470	473	477	481	482	488	477
15	D	490	487	487	474	469	475	473	475	476	473	475	479	475	467	462	466	465	467	468	472	483	489	485	488	476
16		495	486	482	479	478	472	461	466	474	473	474	473	468	468	471	473	474	472	472	472	473	474	474	474	474
17	Q	475	473	473	474	474	473	474	474	473	471	471	471	473	472	470	472	472	468	468	471	472	471	469	468	472
18	Q	472	470	470	470	470	469	469	470	470	469	469	470	473	471	468	467	463	464	465	467	467	465	466	467	468
19		469	469	469	471	467	472	473	471	471	469	468	468	471	462	462	461	462	463	465	468	472	473	469	468	468
20		469	468	468	468	472	470	471	469	469	468	468	467	468	465	464	462	461	464	466	469	470	469	468	469	468
21		474	475	473	470	469	463	451	460	469	469	469	470	470	468	463	463	464	469	470	474	475	473	469	469	468
22	Q	469	469	469	469	468	467	466	467	467	468	467	467	469	469	463	459	458	463	460	459	463	469	469	469	466
23		469	469	469	469	468	457	447	452	463	466	467	465	463	464	458	457	458	458	459	469	472	474	469	466	464
24		467	467	466	465	465	463	463	465	464	463	463	464	465	463	458	452	446	447	456	462	462	464	465	465	462
25		467	466	469	467	467	467	465	464	464	464	464	464	465	464	462	458	452	448	453	458	465	470	472	472	464
26		469	469	469	463	463	464	465	462	451	450	458	462	464	466	464	465	467	469	476	480	476	474	475	475	467
27	D	470	469	469	469	465	469	463	457	464	465	468	467	470	464	456	451	463	489	488	488	487	486	481	484	471
28		480	475	478	478	471	472	457	456	469	474	474	473	473	471	469	468	469	485	485	480	476	484	486	490	475
MEAN A		491	486	483	478	475	473	470	468	467	465	464	466	468	465	463	464	468	472	477	484	486	489	485	488	475
MEAN Q		472	471	470	470	470	469	469	469	469	469	468	469	470	469	465	464	465	467	467	469	470	470	470	469	469
MEAN D		537	518	508	491	480	478	471	455	449	435	433	445	450	447	450	459	472	486	502	530	537	549	528	533	485

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

HORIZONTAL INTENSITY

TABLE 52 AGINCOURT

H = 16000 PLUS TABULAR VALUES IN GAMMAS

MARCH 1969

DAY	HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
		TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24	
1		333	346	350	346	346	346	347	347	350	351	348	345	340	336	329	325	315	302	324	340	346	352	351	334	340
2		318	327	335	334	339	345	346	346	347	347	346	341	334	334	326	317	313	316	328	338	345	347	349	350	336
3	Q	352	355	356	356	354	356	355	356	356	356	356	352	345	336	324	317	311	312	319	329	341	351	354	356	344
4	Q	357	358	358	358	358	357	357	357	358	357	357	356	350	335	323	313	313	321	338	350	358	351	335	345	347
5		350	356	357	356	357	361	364	364	367	367	366	357	354	345	328	313	312	315	323	338	356	367	368	368	350
6		355	359	360	356	356	356	356	357	357	355	349	356	351	338	321	300	302	305	333	352	358	355	356	360	346
7		357	355	340	338	351	350	350	350	355	356	356	355	345	328	322	323	322	320	318	349	351	355	344	351	343
8		344	351	343	353	350	345	346	345	345	349	350	345	338	333	320	307	305	310	320	335	350	350	349	334	338
9		354	357	354	351	352	354	355	356	354	356	357	349	334	323	312	320	323	321	338	349	360	356	365	365	346
10	Q	365	361	361	356	350	352	350	352	353	357	356	355	350	346	340	337	334	337	346	346	352	356	357	361	351
11		362	365	356	361	362	356	361	349	350	346	350	350	357	346	339	331	344	350	356	348	350	355	357	339	352
12	D	322	327	311	303	305	280	203	275	300	295	315	337	332	316	301	291	286	302	333	339	355	354	355	350	312
13		345	370	350	345	349	348	349	350	350	347	344	341	335	328	318	322	335	349	359	360	351	350	349	346	346
14		350	351	350	350	354	354	355	356	354	355	355	351	349	338	330	327	327	341	349	368	377	356	365	356	351
15		355	339	342	340	345	339	335	327	302	328	329	338	345	339	328	323	360	362	365	357	361	350	340	351	342
16		351	353	355	355	361	364	327	322	311	291	338	350	344	332	325	323	324	334	349	360	362	366	367	368	343
17	D	370	366	332	333	328	332	332	341	344	339	350	349	307	328	312	288	290	322	349	364	359	346	351	336	340
18		350	351	350	345	338	340	338	339	338	344	352	357	350	333	317	305	306	304	332	349	360	352	360	351	340
19		360	360	356	361	359	359	360	367	357	355	362	362	352	339	318	305	298	311	333	356	399	394	362	367	352
20		367	365	307	332	339	334	327	338	339	338	350	355	347	327	312	291	284	291	327	355	365	376	365	344	336
21		350	335	338	346	343	340	344	334	349	346	350	349	348	329	312	311	306	311	326	344	349	368	368	361	340
22		364	357	349	359	350	355	359	355	361	349	351	345	339	334	311	306	302	315	334	341	360	373	369	358	346
23	D	350	351	355	358	357	357	360	364	364	362	366	365	353	340	316	296	301	312	355	373	453	541	705	690	389
24	D	754	637	228	160	274	212	186	31	37	-10	-21	120	252	279	267	273	276	284	298	316	326	328	327	323	257
25	D	322	322	327	322	323	332	335	311	306	327	332	331	321	311	297	305	303	305	310	327	343	344	339	339	322
26		333	331	338	338	338	339	343	346	350	347	349	338	338	318	300	286	291	302	317	332	348	359	350	349	333
27	Q	346	353	353	349	351	349	349	351	355	358	356	353	344	327	313	311	311	317	329	345	356	359	361	361	344
28	Q	361	359	356	355	354	359	355	357	364	365	361	360	356	346	328	318	310	322	334	350	361	366	367	371	351
29		371	370	371	367	366	366	365	363	361	361	365	362	350	350	316	321	322	323	335	344	349	366	367	359	354
30		339	344	357	356	355	353	355	356	360	362	361	356	349	334	320	312	311	312	318	343	350	376	365	370	346
31		361	364	355	366	367	367	366	365	365	367	366	366	355	332	318	305	308	321	321	340	350	355	361	367	350
MEAN A		363	361	343	342	346	344	340	336	337	336	339	344	341	332	319	311	311	316	331	345	358	364	366	364	341
MEAN Q		356	357	357	355	353	354	353	355	357	359	357	355	349	338	326	319	316	322	333	344	353	357	355	359	347
MEAN D		423	401	310	295	318	302	283	265	270	263	268	300	313	315	302	295	291	298	324	341	368	385	414	411	323

DECLINATION

TABLE 53 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

MARCH 1969

HOUR UT	0 TO 1	1 TO 2	2 TO 3	3 TO 4	4 TO 5	5 TO 6	6 TO 7	7 TO 8	8 TO 9	9 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	18 TO 19	19 TO 20	20 TO 21	21 TO 22	22 TO 23	23 TO 24	MEAN
1	44.6	42.0	41.5	41.0	41.0	40.6	40.7	40.5	39.9	39.6	39.6	38.7	37.6	37.1	36.4	39.0	42.9	48.7	50.3	47.4	43.8	41.8	41.7	40.3	41.5
2	38.7	39.6	39.6	35.1	37.5	40.5	40.7	39.7	39.6	38.8	38.8	39.1	38.8	37.4	36.0	38.4	42.0	43.7	44.3	43.8	43.0	42.1	42.0	41.9	40.1
3	Q 41.7	41.0	40.5	40.6	40.6	40.6	40.5	40.3	39.6	39.2	38.6	37.7	36.5	35.3	34.5	37.4	40.0	43.7	46.0	46.0	44.1	42.8	42.2	42.1	40.5
4	Q 41.7	40.7	40.6	40.6	40.6	40.6	40.5	40.3	39.7	39.5	38.8	38.5	36.2	35.1	34.2	36.5	40.3	43.2	44.8	45.1	45.3	44.1	45.9	43.1	40.7
5	40.0	39.5	39.6	39.9	39.9	40.3	39.6	39.3	38.8	38.5	38.5	38.4	36.6	32.2	31.1	35.3	38.6	42.9	45.4	45.7	45.2	43.8	42.8	42.3	39.8
6	41.6	40.6	39.8	39.5	39.4	39.4	40.3	40.4	38.7	37.1	39.5	37.0	34.2	32.0	32.7	38.3	42.3	46.8	47.7	46.5	46.0	45.0	44.0	43.1	40.5
7	41.7	40.1	33.9	38.4	37.3	36.8	38.3	38.3	37.2	38.5	38.9	37.1	33.5	36.4	42.7	43.4	44.4	48.0	51.0	51.6	48.7	47.3	44.8	43.7	41.3
8	41.6	42.7	39.7	41.6	41.6	38.4	39.6	39.2	39.7	39.7	38.5	36.3	35.4	33.0	35.9	38.4	42.7	45.3	47.8	46.7	45.7	43.6	42.5	39.9	40.6
9	41.4	40.5	42.4	41.3	39.5	38.8	39.7	38.5	38.3	36.0	36.3	36.0	34.0	37.1	37.5	39.5	41.6	43.6	46.9	46.7	43.9	43.7	43.0	42.4	40.4
10	Q 41.4	40.5	40.5	40.2	39.4	38.4	38.3	38.1	37.2	38.8	38.1	38.1	36.5	34.9	34.8	37.3	40.2	41.5	42.7	43.6	43.6	43.2	42.6	42.2	39.7
11	41.5	41.4	40.8	40.3	39.3	38.2	35.1	33.9	34.1	33.8	33.7	38.2	40.4	38.2	40.5	41.6	42.6	43.6	44.6	45.8	45.0	46.8	46.8	40.9	40.3
12	D 38.2	42.4	36.9	38.1	33.1	35.9	44.8	29.5	30.8	36.1	42.5	39.2	36.2	38.1	39.3	41.6	45.8	47.0	46.3	45.9	43.2	42.5	41.6	41.4	39.8
13	41.5	38.4	39.5	40.7	40.4	40.1	40.0	39.2	38.1	38.1	38.2	38.8	37.0	35.0	35.8	36.8	41.1	44.7	45.4	44.5	43.4	42.6	42.4	43.4	40.2
14	43.5	41.5	41.3	39.4	40.0	39.3	39.1	38.5	38.3	38.1	38.3	36.9	34.7	32.6	34.0	39.2	43.7	47.5	48.3	46.3	45.5	44.2	43.7	43.2	40.7
15	43.4	40.9	38.2	36.9	38.0	38.7	35.5	32.9	42.9	29.6	33.5	39.1	34.9	36.1	39.9	45.4	49.2	45.8	47.7	45.5	43.4	42.1	41.2	40.1	40.0
16	40.3	40.1	40.0	39.5	33.9	35.9	34.0	38.4	36.1	42.3	39.2	31.4	29.4	30.5	34.8	39.0	42.5	45.5	46.8	45.5	43.4	42.2	40.9	39.6	38.8
17	D 41.1	37.9	36.6	38.6	37.5	30.7	37.0	37.9	37.0	37.9	38.0	33.8	41.3	39.2	33.6	35.9	40.7	50.6	50.7	47.3	45.4	43.5	41.4	41.7	39.8
18	41.2	40.2	40.0	35.0	36.5	35.9	42.0	32.5	34.6	39.1	40.9	36.2	34.3	33.4	33.9	38.7	43.0	47.7	48.7	47.7	47.5	44.4	41.8	40.4	39.8
19	40.2	40.1	40.1	38.9	39.3	40.1	39.7	41.3	36.0	36.6	36.8	34.9	32.5	31.7	31.5	36.8	41.2	44.4	46.6	47.7	47.6	46.6	48.6	47.3	40.3
20	42.2	36.8	29.4	40.0	42.2	40.1	38.7	40.0	35.4	37.1	39.0	34.6	32.5	30.5	32.5	33.4	41.1	47.4	52.9	52.8	50.4	48.6	48.3	45.4	40.5
21	45.5	41.1	36.6	37.9	39.2	38.9	40.4	49.0	39.0	38.7	39.2	37.9	34.4	29.4	28.9	33.7	38.9	44.5	47.6	48.6	47.7	46.7	42.4	42.2	40.3
22	40.9	40.0	39.8	34.3	38.2	39.7	39.2	38.1	39.0	36.1	36.0	34.7	35.9	34.8	32.9	39.1	43.2	47.2	47.7	48.9	48.6	45.9	45.2	44.5	40.4
23	D 42.2	40.0	40.1	40.0	39.3	39.3	39.7	39.9	38.6	39.1	37.9	35.0	31.6	30.3	28.3	35.8	44.3	47.7	48.4	55.9	54.5	43.5	35.9	45.1	40.5
24	D 50.8	59.2	31.4	40.7	35.9	41.2	23.3	32.0	14.7	45.2	36.7	38.2	44.9	36.6	38.2	43.3	48.7	48.4	47.3	46.3	44.5	43.3	43.2	43.3	40.7
25	D 43.2	43.3	42.4	42.2	41.4	40.1	38.8	41.4	41.4	41.5	32.6	33.7	33.0	33.6	41.1	43.3	45.6	45.8	45.8	45.4	42.7	40.1	36.9	33.3	40.4
26	40.0	38.7	42.1	41.9	41.1	40.2	40.2	39.1	40.5	39.0	40.9	41.3	36.2	31.6	36.2	38.0	41.2	47.3	46.7	46.5	44.4	42.5	41.1	39.0	40.6
27	Q 40.4	41.6	41.6	40.8	38.2	38.1	39.5	39.4	40.1	39.2	38.9	36.8	33.9	31.9	33.8	38.3	42.3	44.7	45.8	46.1	45.4	43.5	42.6	42.4	40.2
28	Q 42.2	41.1	41.2	41.3	40.6	39.9	38.5	37.4	37.9	38.1	38.1	37.0	34.6	34.7	33.7	38.2	40.2	45.7	46.2	46.6	46.3	44.7	43.0	42.4	40.4
29	41.6	41.4	41.3	41.2	40.3	39.5	36.1	37.1	36.4	35.7	36.2	36.7	34.0	37.2	32.7	41.5	41.4	43.7	45.5	46.3	45.6	43.8	41.3	33.8	39.6
30	39.3	42.3	41.3	41.1	36.2	38.5	39.2	39.0	39.6	40.8	39.0	36.9	34.1	33.1	35.0	40.0	44.8	47.1	50.1	49.1	46.8	43.8	41.6	42.1	40.9
31	42.5	41.4	33.9	39.2	41.1	40.4	39.3	40.1	40.5	39.6	38.9	35.8	32.6	29.8	32.3	35.4	41.6	45.9	50.1	49.7	46.9	44.6	42.4	41.6	40.2
MEAN A	41.8	41.2	39.1	39.5	39.0	38.9	38.7	38.4	37.4	38.3	38.1	36.9	35.4	34.1	35.0	38.7	42.5	45.8	47.3	47.2	45.7	44.0	42.7	41.7	40.3
MEAN Q	41.5	41.0	40.9	40.7	39.9	39.5	39.5	39.1	38.9	39.0	38.5	37.6	35.5	34.4	34.2	37.5	40.6	43.8	45.1	45.5	44.9	43.7	43.3	42.4	40.3
MEAN D	43.1	44.6	37.5	39.9	37.4	37.5	36.7	36.1	32.5	39.9	37.5	36.0	37.4	35.6	36.1	40.0	45.0	47.9	47.7	48.2	46.1	42.6	39.8	41.0	40.2

VERTICAL INTENSITY

TABLE 54 AGINCOURT

Z = 55500 PLUS TABULAR VALUES IN GAMMAS

MARCH 1969

HOUR UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN	
DAY	TO 1	TO 2	TO 3	TO 4	TO 5	TO 6	TO 7	TO 8	TO 9	TO 10	TO 11	TO 12	TO 13	TO 14	TO 15	TO 16	TO 17	TO 18	TO 19	TO 20	TO 21	TO 22	TO 23	TO 24		
1	489	479	474	473	472	472	473	473	473	473	472	473	473	473	469	467	467	471	480	476	473	473	474	479	474	
2	489	491	471	461	476	476	476	473	472	472	472	472	468	471	466	463	463	466	471	472	472	472	471	471	472	
3	Q	471	470	468	467	467	468	470	468	468	469	471	472	471	471	471	466	471	472	475	475	472	471	472	470	
4	Q	470	469	469	467	467	466	466	466	466	465	467	470	471	471	471	471	472	474	475	475	477	490	494	488	472
5		478	473	471	470	468	467	467	466	465	465	465	464	459	453	454	454	458	465	471	471	470	467	467	466	
6		470	470	470	471	471	471	470	465	465	464	461	455	464	465	462	460	464	470	477	476	475	474	472	472	468
7		474	474	470	475	471	459	458	464	466	468	471	468	465	458	453	449	452	465	475	486	483	472	478	468	
8		483	484	482	477	465	471	471	471	471	462	465	466	470	466	461	459	461	466	472	475	477	476	477	481	471
9		478	475	477	477	475	472	471	467	458	448	461	465	460	458	454	458	460	460	465	471	475	475	471	471	467
10	Q	470	469	468	471	471	472	470	471	465	459	464	467	467	467	465	461	460	459	459	459	459	464	467	467	465
11		467	467	470	469	469	470	459	455	443	440	444	442	438	442	447	448	453	458	465	477	490	501	529	523	465
12	D	495	475	475	409	450	436	376	397	389	407	407	460	478	472	472	467	472	478	484	479	477	472	476	478	453
13		478	465	470	473	473	473	471	470	469	469	469	468	467	472	472	471	471	469	470	473	475	478	488	484	472
14		485	485	485	483	479	474	473	472	471	471	471	471	471	467	462	460	455	456	461	467	474	474	480	480	472
15		489	501	473	483	483	461	460	454	420	436	454	448	450	449	449	448	450	456	470	479	480	480	478	479	464
16		477	473	472	472	463	428	437	407	381	400	395	455	461	460	463	463	461	460	459	459	460	461	466	467	450
17	D	478	497	527	486	474	428	473	481	477	467	461	465	444	442	450	452	451	462	474	478	489	509	484	474	472
18		473	472	473	464	455	463	430	424	446	460	460	467	470	472	473	468	455	454	462	464	472	474	475	473	462
19		470	468	469	468	468	468	468	455	444	461	468	468	465	461	455	451	452	455	460	466	466	473	493	504	466
20		545	568	498	497	486	481	474	421	462	466	462	480	485	480	478	471	478	487	491	491	491	503	521	521	489
21		512	509	497	487	483	480	467	416	454	471	474	475	480	475	475	474	470	473	474	480	478	488	493	484	478
22		480	480	483	468	472	474	473	471	445	434	454	464	469	467	462	463	462	467	474	478	487	492	492	491	471
23	D	491	484	477	474	473	471	470	469	467	468	468	470	468	467	458	457	456	460	475	484	579	651	604	655	496
24	D	521	521	385	438	521	521	421	423	403	132	141	359	498	493	488	488	484	489	493	497	491	487	486	487	444
25	D	487	487	487	487	487	484	478	417	385	437	473	480	468	464	469	480	484	491	497	505	504	498	500	504	477
26		492	486	484	481	480	480	478	474	470	475	473	474	474	474	475	480	480	486	481	485	485	487	487	486	480
27	Q	487	481	478	479	475	477	478	475	473	474	479	479	475	474	471	464	462	468	473	473	474	474	474	474	475
28	Q	474	474	474	474	473	468	470	473	473	472	473	474	474	471	463	461	457	462	464	468	470	470	469	470	470
29		469	468	468	468	468	468	462	460	455	451	461	468	473	473	469	474	468	467	471	475	478	482	491	499	470
30		496	492	480	473	466	468	471	472	472	468	468	472	473	470	467	463	464	468	486	486	481	489	486	479	475
31		474	475	474	467	471	471	471	471	467	466	468	470	472	469	467	462	464	466	474	480	478	480	478	475	471
MEAN A		484	483	475	471	473	469	463	456	453	447	451	464	469	467	465	464	463	467	473	476	481	486	487	488	470
MEAN Q		474	473	471	472	471	470	470	472	470	468	469	472	473	471	469	467	464	465	468	470	471	474	475	474	470
MEAN D		494	493	470	459	481	468	443	437	424	382	390	447	471	467	467	469	469	476	485	489	508	523	510	520	468

MEAN VALUES OF MAGNETIC ELEMENTS

TABLE 55 AGINCOURT

HORIZONTAL INTENSITY - ALL DAYS
H = 16000 PLUS TABULAR VALUES IN GAMMAS

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	339	343	363													
1-2	340	342	361													
2-3	341	340	343													
3-4	342	341	342													
4-5	342	339	346													
5-6	342	340	344													
6-7	341	340	340													
7-8	341	339	336													
8-9	342	341	337													
9-10	342	344	336													
10-11	342	342	339													
11-12	342	343	344													
12-13	339	337	341													
13-14	332	328	332													
14-15	323	316	319													
15-16	313	306	311													
16-17	309	303	311													
17-18	314	310	316													
18-19	323	317	331													
19-20	330	325	345													
20-21	336	339	358													
21-22	340	343	364													
22-23	342	341	366													
23-24	342	344	364													
Mean	335	333	341													

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION - ALL DAYS

TABLE 56 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	38.7	41.4	41.8													
1-2	38.2	40.1	41.2													
2-3	38.7	39.1	39.1													
3-4	38.9	39.0	39.5													
4-5	39.2	39.3	39.0													
5-6	39.3	39.4	38.9													
6-7	39.7	40.0	38.7													
7-8	39.9	40.2	38.4													
8-9	39.3	39.7	37.4													
9-10	38.9	39.0	38.3													
10-11	38.6	39.3	38.1													
11-12	38.5	38.6	36.9													
12-13	38.1	37.5	35.4													
13-14	36.9	36.2	34.1													
14-15	37.0	35.9	35.0													
15-16	39.4	38.3	38.7													
16-17	42.0	41.6	42.5													
17-18	43.9	44.2	45.8													
18-19	44.1	45.6	47.3													
19-20	43.6	46.0	47.2													
20-21	42.6	44.6	45.7													
21-22	41.8	43.6	44.0													
22-23	41.2	43.0	42.7													
23-24	40.3	42.4	41.7													
Mean	39.9	40.6	40.3													

MEAN VALUES OF MAGNETIC ELEMENTS

TABLE 57 AGINCOURT

VERTICAL INTENSITY - ALL DAYS
Z = 55500 PLUS TABULAR VALUES IN GAMMAS

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	474	491	484													
1-2	474	486	483													
2-3	472	483	475													
3-4	471	478	471													
4-5	469	475	473													
5-6	469	473	469													
6-7	468	470	463													
7-8	467	468	456													
8-9	465	467	453													
9-10	465	465	447													
10-11	464	464	451													
11-12	465	466	464													
12-13	466	468	469													
13-14	466	465	467													
14-15	462	463	465													
15-16	462	464	464													
16-17	466	468	463													
17-18	471	472	467													
18-19	472	477	473													
19-20	474	484	476													
20-21	474	486	481													
21-22	474	489	486													
22-23	473	485	487													
23-24	473	488	488													
Mean	469	475	470													

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

TABLE 58 AGINCOURT

HORIZONTAL INTENSITY - QUIET DAYS
H = 16000 PLUS TABULAR VALUES IN GAMMAS

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	345	350	356													
1-2	346	351	357													
2-3	346	350	357													
3-4	344	349	355													
4-5	345	349	353													
5-6	345	349	354													
6-7	346	350	353													
7-8	346	350	355													
8-9	346	351	357													
9-10	347	351	359													
10-11	346	350	357													
11-12	345	349	355													
12-13	341	344	349													
13-14	333	332	338													
14-15	322	320	326													
15-16	312	312	319													
16-17	311	312	316													
17-18	319	320	322													
18-19	330	333	333													
19-20	336	342	344													
20-21	340	345	353													
21-22	345	349	357													
22-23	348	352	355													
23-24	348	353	359													
Mean	339	342	347													

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION - QUIET DAYS

TABLE 59 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	39.5	40.9	41.5													
1-2	39.2	40.4	41.0													
2-3	39.3	40.4	40.9													
3-4	39.4	40.3	40.7													
4-5	39.4	40.2	39.9													
5-6	39.6	40.2	39.5													
6-7	39.6	40.1	39.5													
7-8	39.5	39.8	39.1													
8-9	39.2	39.2	38.9													
9-10	38.7	38.5	39.0													
10-11	38.5	38.3	38.5													
11-12	38.3	37.8	37.6													
12-13	37.7	36.7	35.5													
13-14	36.2	34.9	34.4													
14-15	36.2	34.9	34.2													
15-16	38.9	37.7	37.5													
16-17	42.0	41.2	40.6													
17-18	43.7	43.7	43.8													
18-19	43.5	45.0	45.1													
19-20	42.6	44.5	45.5													
20-21	41.4	42.9	44.9													
21-22	40.8	41.8	43.7													
22-23	40.2	41.5	43.3													
23-24	39.7	41.4	42.4													
Mean	39.7	40.1	40.3													

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

TABLE 60 AGINCOURT

 VERTICAL INTENSITY - QUIET DAYS
 Z = 55500 PLUS TABULAR VALUES IN GAMMAS

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	473	472	474													
1-2	471	471	473													
2-3	470	470	471													
3-4	469	470	472													
4-5	470	470	471													
5-6	469	469	470													
6-7	470	469	470													
7-8	470	469	472													
8-9	469	469	470													
9-10	469	469	468													
10-11	468	468	469													
11-12	468	469	472													
12-13	469	470	473													
13-14	468	469	471													
14-15	466	465	469													
15-16	466	464	467													
16-17	469	465	464													
17-18	473	467	465													
18-19	473	467	468													
19-20	474	469	470													
20-21	471	470	471													
21-22	469	470	474													
22-23	470	470	475													
23-24	469	469	474													
Mean	470	469	470													

MEAN VALUES OF MAGNETIC ELEMENTS

TABLE 61 AGINCOURT

HORIZONTAL INTENSITY - DISTURBED DAYS
H = 16000 PLUS TABULAR VALUES IN GAMMAS

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	315	347	423													
1-2	320	336	401													
2-3	332	324	310													
3-4	332	330	295													
4-5	331	323	318													
5-6	330	324	302													
6-7	328	319	283													
7-8	325	318	265													
8-9	329	323	270													
9-10	334	336	263													
10-11	337	323	268													
11-12	335	331	300													
12-13	333	317	313													
13-14	331	309	315													
14-15	324	297	302													
15-16	313	281	295													
16-17	299	278	291													
17-18	298	292	298													
18-19	307	278	324													
19-20	315	279	341													
20-21	328	329	368													
21-22	332	337	385													
22-23	335	328	414													
23-24	335	352	411													
Mean	325	317	323													

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION - DISTURBED DAYS

TABLE 62 AGINCOURT

D = 7.0 DEGREES WEST PLUS TABULAR VALUES IN MINUTES

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	35.8	41.1	43.1													
1-2	35.3	38.8	44.6													
2-3	38.3	36.5	37.5													
3-4	37.8	36.8	39.9													
4-5	38.7	38.7	37.4													
5-6	38.2	38.6	37.5													
6-7	39.9	39.9	36.7													
7-8	40.9	42.1	36.1													
8-9	40.4	41.5	32.5													
9-10	40.5	41.9	39.9													
10-11	38.2	44.5	37.5													
11-12	40.5	42.4	36.0													
12-13	41.2	41.3	37.4													
13-14	38.9	40.6	35.6													
14-15	38.2	37.3	36.1													
15-16	39.4	39.8	40.0													
16-17	41.2	43.8	45.0													
17-18	43.7	46.0	47.9													
18-19	45.0	47.8	47.7													
19-20	45.4	51.3	48.2													
20-21	43.3	48.6	46.1													
21-22	42.5	46.7	42.6													
22-23	41.7	46.3	39.8													
23-24	40.7	44.5	41.0													
Mean	40.2	42.4	40.2													

MEAN VALUES OF MAGNETIC ELEMENTS

TABLE 63 AGINCOURT

VERTICAL INTENSITY - DISTURBED DAYS
Z = 55500 PLUS TABULAR VALUES IN GAMMAS

1969

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	483	537	494													
1-2	488	518	493													
2-3	483	508	470													
3-4	476	491	459													
4-5	472	480	481													
5-6	470	478	468													
6-7	468	471	443													
7-8	460	455	437													
8-9	458	449	424													
9-10	459	435	382													
10-11	458	433	390													
11-12	460	445	447													
12-13	462	450	471													
13-14	462	447	467													
14-15	458	450	467													
15-16	459	459	469													
16-17	464	472	469													
17-18	471	486	476													
18-19	475	502	485													
19-20	480	530	489													
20-21	482	537	508													
21-22	481	549	523													
22-23	478	523	510													
23-24	478	533	520													
Mean	470	485	468													

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

THREE-HOUR RANGE INDICES, AGINCOURT, 1968

Table 64

January					February											
	D	H	Z	K	D	H	Z	K								
1	4244	2322	3343	3322	4354	4212	4354	4322	0232	2222	0121	1233	0020	0110	0232	2233
2	0366	5223	2347	3323	1367	5321	2367	5323	3133	3223	2112	2433	1023	1223	3133	3433
3	2331	2002	2221	1111	2120	0111	2331	2112	4132	2322	4111	3322	2021	1212	4132	3322
4	0002	1213	1011	1122	0000	0112	1012	1223	2444	3110	3334	2221	1334	1000	3444	3221
5	2222	2212	1212	2113	1120	1112	2222	2213	0002	2222	0011	2232	0000	0021	0012	2232
6	3222	3332	2222	3322	3211	1111	2222	3332	1000	0000	1000	0000	0000	0000	1000	0000
7	1312	2220	2211	1212	0100	1200	2312	2222	0000	0122	0000	0133	0000	0012	0000	0133
8	1101	2310	1111	2221	0000	1110	1111	2321	3212	2112	3211	1232	2101	0022	3212	2232
9	0000	1300	0000	1211	0000	0000	0000	1311	6443	3013	4323	2023	4343	2012	6443	3023
10	0121	1200	1110	1210	0000	0000	1121	1210	4334	2555	3214	2544	1222	2246	4334	2556
11	1101	3322	0000	3332	0000	2122	1101	3332	5556	4213	5477	4233	5556	5222	5577	5233
12	1232	2321	2221	2332	0211	1221	2232	2332	4442	2210	2231	2231	2231	0020	4442	2231
13	0323	2112	1211	1121	0112	1112	1323	2122	0342	5400	0333	3411	0134	2310	0344	5411
14	3332	2222	2321	1222	1110	1111	3332	2222	0000	1001	1101	1112	0000	0000	1101	1112
15	2322	2113	1211	1223	0000	2112	2322	2223	1235	4332	1134	4342	0013	2421	1235	4442
16	3212	2331	2110	1342	2010	0021	3212	2342	0333	3211	1223	3223	0122	2221	1333	3223
17	1443	3221	1232	2222	0032	1111	1443	3222	1233	3223	2122	3223	0022	2122	2233	3223
18	4121	3200	3221	2221	1110	1010	4221	3221	3134	4422	2144	3442	2043	3222	3144	4442
19	0222	2324	0221	2323	0111	1222	0222	2324	3422	2100	3321	1111	2220	0110	3422	2111
20	3433	3311	2223	3221	2222	1110	3433	3321	3145	5223	2134	5333	0044	4232	3145	5333
21	0322	2210	1222	1221	0221	0110	1322	2221	5433	3222	4323	2233	4233	1122	5433	3233
22	0331	2310	1211	2322	0110	0010	1331	2322	2322	2210	1212	2211	1221	0100	2322	2211
23	2131	2221	2121	2222	0120	0011	2131	2222	0220	1200	0210	0221	0110	0000	0220	1221
24	2033	3212	1012	2221	0011	1021	2033	3222	0432	2110	1111	1110	0020	0110	1432	2110
25	2000	2100	1000	1111	0000	0010	2000	2111	1020	2210	0010	0121	0010	0120	1020	2221
26	2222	4421	1111	3422	0000	1311	2222	4422	0100	0312	1000	1112	0000	0120	1100	1322
27	1121	2221	2220	1222	0111	1111	2221	2222	1110	2223	1100	1133	1000	0133	1110	2233
28	3100	2222	2100	0122	1200	1121	3200	2222	4202	4333	2111	3333	2301	2243	4312	4343
29	3411	2223	3411	0223	3310	0022	3411	2223	5333	2220	4332	2222	5342	2111	5343	2222
30	3322	2211	2301	1122	1320	0110	3322	2222								
31	3312	2200	2211	1101	2122	1000	3322	2201								
March					April											
D	H	Z	K	D	H	Z	K									
1	3112	3310	2111	2310	0101	0200	3112	3310	4433	3322	3433	3233	4444	1223	4444	3333
2	1322	2111	1321	1122	0221	0011	1322	2122	4232	2212	2221	3222	2220	1121	4232	3222
3	2223	3323	2122	2223	0022	0231	2223	3333	3323	3202	3221	3213	3211	1102	3323	3213
4	3332	3215	2231	2223	2133	1133	3333	3235	3320	2201	2221	2122	2210	1121	3321	2222
5	3534	4202	2322	3233	2333	4212	3534	4233	2122	2344	1110	2346	0000	1256	2122	2356
6	2122	1212	2111	1121	2010	0101	2122	1222	3455	3331	3365	4333	2465	3322	3465	4333
7	2320	1100	1100	0111	1111	0010	2321	1111	3233	3100	2232	2212	1232	1111	3233	3212
8	1100	1212	1000	0102	0000	0000	1100	1212	2201	2100	1211	1111	0100	0000	2211	2111
9	1201	1111	1100	0012	0000	0001	1201	1112	0001	2111	0000	0212	0000	0001	0001	2212
10	3321	3322	2220	2333	0110	1121	3321	3333	2221	2211	1111	1122	0110	1121	2221	2222
11	0232	1010	2232	0222	0222	0011	2232	1222	1222	2300	1311	1232	0221	0111	1322	2332
12	0002	3212	0001	1122	0001	1221	0002	3222	0002	2323	2121	1244	0000	0122	2122	2344
13	1211	1101	1210	0111	0200	0101	1211	1111	3314	3433	2313	3444	3302	2233	3314	3444
14	3223	4224	2132	3344	2122	2234	3233	4344	4415	5421	3324	4333	2314	3321	4425	5433
15	4453	4223	2342	3333	2353	2233	4453	4333	1034	3323	2123	3332	1123	1222	2134	3333
16	4543	5214	3433	4223	2423	3222	4543	5224	3334	3113	3222	1133	2222	0022	3334	3133
17	4432	2113	3311	1222	2321	0011	4432	2223	2223	2221	2223	2223	2212	1111	2223	2223
18	4333	3211	2211	2322	1122	0211	4333	3322	3223	2211	2121	1222	2221	0111	3223	2222
19	1343	3220	1222	2231	0133	2111	1343	3231	0020	2110	1100	1100	0000	1111	1120	2111
20	5503	4211	2413	3223	1302	2112	5513	4223	0000	1110	1100	1110	0000	1110	1100	1110
21	2111	2110	1211	1121	1101	0011	2211	2121	0011	2110	0111	2122	0000	0011	0111	2122
22	1112	2100	1012	1111	0000	0000	1112	2111	1121	3301	1221	2123	0022	2022	1222	3323
23	0112	2122	0101	2134	0000	1023	0112	2134	3213	2110	3222	2232	2321	1121	3323	2232
24	1343	3222	2332	3333	0442	2133	2443	3333	3302	3201	2311	1211	2310	2121	3312	3221
25	3342	3222	2332	2332	2343	1222	3343	3332	0022	2202	0111	2122	0000	1112	0122	2222
26	0234	3221	1133	2232	0123	2112	1234	3232	3433	3333	3322	3345	2432	2144	3433	3345
27	4423	3322	3322	2222	3432	1122	4433	3322	4333	3231	3233	2242	3245	1132	4345	3242
28	2431	3212	1221	2223	1231	0111	2431	3223	4432	3312	4222	2233	4331	2122	4432	3333
29	4343	3203	3322	2223	2242	2013	4343	3223	4341	2302	2232	2233	2233	1113	4343	2333
30	4452	3323	4442	2433	3660	2333	4662	3433	2123	2311	2112	1223	2012	1111	2123	2323
31	2232	3224	1121	2233	1232	1133	2232	3234								

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

THREE-HOUR RANGE INDICES, AGINCOURT, 1968

May					June				
	D	H	Z	K	D	H	Z	K	
1	1222	3325	2101 3334	1001 2135	2222 3335	1324 3322	3223 2234	1212 1123	3324 3334
2	5334	2201	3323 2223	4313 1111	5334 2223	3443 3223	3331 3233	3441 1232	3443 3233
3	3432	2211	3412 2113	1531 1111	3532 2213	4222 3312	3212 3333	2211 1232	4222 3333
4	3212	2211	2111 1222	0000 1100	3212 2222	3333 3213	3211 1233	3222 2122	3333 3233
5	0012	2221	1011 2121	0000 1011	1012 2221	1222 2211	2211 1121	1210 1201	2222 2221
6	0102	2220	1210 1222	0000 1221	1212 2222	0012 3201	0110 1123	0000 0011	0112 3223
7	2555	6323	3685 5333	1585 3322	3685 6333	1233 2421	1232 3331	0131 1121	1233 3431
8	2221	1202	3212 1221	2201 1111	3222 1222	1312 2433	2211 2343	1000 0121	2312 2443
9	5343	2322	4322 2333	4333 2243	5343 2343	2322 3222	2321 1233	0420 1232	2422 3233
10	1312	3311	2311 2234	2110 2112	2312 3334	3554 3324	3354 4225	2554 3336	3554 4336
11	5344	3211	4223 3333	3344 2222	5344 3333	7898 5433	4877 5343	7876 4343	7898 5443
12	6543	2222	4543 2233	4663 2122	6663 2233	4554 4323	3354 3334	5454 4334	5554 4334
13	4234	3210	3122 2333	2322 0222	4334 3333	5655 3432	3555 4344	4543 4444	5655 4444
14	4332	2211	3222 2233	3221 1132	4332 2233	3234 3223	3233 2233	2354 4323	3354 4333
15	3342	2222	3232 1223	2343 2122	3343 2223	1121 1210	2111 1233	1121 1112	2121 1233
16	3322	3110	3112 2221	3222 1311	3322 3321	1002 2223	1112 3234	1003 2133	1113 3234
17	0432	3333	1121 3334	0331 2233	1432 3334	4464 2111	3363 2223	3454 1112	4464 2223
18	3242	2422	2222 3433	2232 2222	3242 3433	2132 2222	2122 3343	1032 1232	2132 3343
19	2322	2222	1212 2333	1222 1233	2322 2333	3333 3233	3221 3242	3332 2132	3333 3243
20	4443	3313	3332 2333	2443 2213	4443 3333	3312 2200	2211 1132	2220 0221	3322 2232
21	4233	4333	4112 3433	4142 2444	4243 4444	0000 1000	1001 1011	0000 0000	1001 1011
22	3532	2201	2332 2124	3441 0102	3542 2224	1243 3211	1242 2143	0223 2221	1243 3243
23	3101	3234	3111 2333	3000 1123	3111 3334	3343 2101	2121 1222	0131 0001	3343 2222
24	5543	3222	4331 2233	4441 2111	5543 3233	0000 0000	1000 0011	0000 0000	1000 0011
25	2123	2311	2101 2322	1000 1132	2123 2332	1010 0211	0000 0213	0000 0122	1010 0211
26	0303	1210	2200 1112	0200 2110	2303 2212	3102 4222	4212 3324	2001 1222	4212 4324
27	0012	2100	0010 1222	0000 2111	0012 2222	1323 3322	3322 3344	1211 1122	3323 3344
28	1111	2211	2111 1221	1000 1121	2111 2221	3001 2110	3001 2222	1000 0101	3001 2222
29	2332	2212	2221 2123	0122 1122	2332 2223	3222 3233	2210 2354	0010 1223	3222 3354
30	1441	2311	2321 2223	1332 1122	2442 2323	3323 1113	3311 1243	1212 0232	3323 1243
31	3212	2221	3111 2333	2122 0111	3222 2333				
July					August				
	D	H	Z	K	D	H	Z	K	
1	4433	3212	3221 2213	2332 1022	4433 3223	0123 2212	1100 1111	0112 1211	1123 2212
2	4134	3313	2112 1232	2022 1022	4134 3333	0102 2221	1110 1122	0000 0111	1112 2222
3	3343	2322	2243 2332	2353 1221	3353 2332	1443 3321	1332 2222	0422 2122	1443 3322
4	0334	3220	2131 2233	1243 1121	2344 3233	2312 2111	3221 1122	1210 0212	3322 2222
5	3324	2322	2212 2322	2312 1101	3324 2322	1304 3321	1212 3334	0202 2222	1314 3334
6	3324	2322	2112 2221	0221 1121	3324 2322	4423 3211	2322 2343	2211 1132	4423 3343
7	1143	2321	1131 1322	0023 0110	1143 2322	4223 3111	3312 3223	3320 2221	4323 3223
8	2334	1310	1212 1222	0222 2211	2334 2322	5342 3231	3331 2232	3431 1121	5442 3232
9	0212	2211	1211 1212	0220 1122	1222 2222	3232 3322	2221 1243	2120 2222	3232 3343
10	4434	5235	4433 4355	1433 3334	4434 5355	2113 2211	2112 1222	1121 1211	2123 2222
11	3423	2323	3210 2233	3321 1132	3423 2333	3332 2201	2211 1111	1221 2220	3332 2221
12	3402	2211	2200 2322	3210 2111	3412 2322	1132 2211	2011 2232	0010 2121	2132 2232
13	1221	1343	2310 0454	0220 0343	2321 1454	0102 2222	0100 2254	0000 1133	0102 2254
14	5533	3221	4422 2233	4511 1221	5533 3233	5344 4233	3343 4244	3233 2123	5344 4244
15	3222	1222	2211 1232	1201 0121	3222 1232	3444 3322	3443 3333	3443 2322	3444 3333
16	3112	2222	1211 2432	1220 0222	3222 2432	4333 3443	3332 4444	3442 2355	4443 4455
17	0102	2211	1111 2233	0000 0122	1112 2233	5644 4323	3544 4434	4543 3323	5644 4434
18	3411	3202	2301 3312	2310 1101	3411 3312	3443 3312	3332 2233	2433 2222	3443 3333
19	1323	2312	1222 1223	0211 1222	1323 2323	3334 3221	3133 3222	2222 1121	3334 3222
20	2102	2222	2101 1222	2000 0120	2102 2222	1112 3311	1111 2222	0001 0121	1112 3322
21	1023	3222	1111 2223	0010 0121	1123 3223	1122 2232	1120 1121	0110 0111	1122 2232
22	4345	4321	3233 3333	2244 2221	4345 4333	0002 3222	1001 1132	0000 0112	1002 3232
23	2242	3321	2121 3322	2242 1111	2242 3322	2332 2322	2321 1243	0411 1122	2432 2343
24	0022	2100	1111 1211	0010 0120	1122 2221	3444 3211	3342 2131	2552 2111	3554 3231
25	0123	3311	1111 3222	0021 1211	1123 3322	1102 2211	1100 1132	0000 1011	1102 2232
26	1314	3323	2212 3334	0301 1123	2314 3334	0102 3221	0110 2122	0001 1221	0112 3222
27	3444	2301	3322 1122	2321 0121	3444 2322	2212 2211	2111 1111	2101 1010	2212 2211
28	2301	2322	2101 2222	0200 1121	2301 2322	0101 2211	1201 0222	0100 1011	1201 2222
29	2112	2210	2210 2222	0220 1211	2222 2222	1001 2101	0000 1121	0000 0111	1001 2121
30	1202	2322	2111 2243	0000 1221	2212 2343	1012 2011	1000 1122	0000 1000	1012 2122
31	2222	2100	2111 1221	1110 1111	2222 2221	1312 3311	2322 3322	1212 1232	2322 3332

RECORD OF OBSERVATIONS AT AGINCOURT MAGNETIC OBSERVATORY 1968 AND JANUARY TO MARCH 1969

THREE-HOUR RANGE INDICES, AGINCOURT, 1969

January								February								
	D		H		Z		K		D		H		Z		K	
1	2123	2111	1011	1211	0010	0000	2123	2211	0100	1110	0000	1221	0000	1110	0100	1221
2	0300	2100	0200	1110	0100	0010	0300	2110	0022	2466	0011	2477	0010	2366	0022	2477
3	0000	2100	0000	1110	0000	0000	0000	2110	5353	5435	6344	5443	6443	3345	6454	5445
4	0001	2100	0000	1121	0000	0010	0001	2121	2022	3323	2121	2333	1010	2122	2122	3333
5	0100	1000	1100	0210	0100	0000	1100	1210	4131	2111	3112	1222	3211	1011	4232	2222
6	0000	1100	0000	0111	0000	0110	0000	1111	5533	2112	2332	0222	1211	1111	5533	2222
7	0213	3121	0212	3122	0001	1111	0213	3122	0033	3221	1011	1222	1001	1111	1033	3222
8	2222	1111	1221	1122	0011	1110	2222	1122	2111	2200	1211	1221	1100	1110	2211	2221
9	1100	2111	1110	1211	0000	1000	1110	2211	0100	2111	1000	1211	0000	1111	1100	2211
10	0010	2100	0000	1210	0000	1110	0010	2210	2122	1213	1111	1333	1001	1123	2122	1333
11	0011	2100	0011	1211	0000	0000	0011	2211	6256	4443	5145	4444	7346	4545	6356	4545
12	0022	2110	1111	2100	0001	0100	1122	2110	4210	1113	3100	1223	3000	0112	4210	1223
13	0001	2000	0001	0211	0000	0000	0001	2211	2120	2111	2111	2222	0011	0011	2121	2222
14	2233	2222	2221	1122	0110	1111	2233	2222	1311	2113	1210	2113	0100	1012	1311	2113
15	3322	2221	2211	1231	1201	0120	3322	2231	3422	3321	2422	2232	1312	2122	3422	3332
16	0323	3303	1212	3213	0001	2210	1323	3313	2231	2201	2231	1221	2220	1000	2231	2221
17	4433	3322	2322	2223	1222	1121	4433	3323	1110	1111	1100	0111	0000	0000	1110	1111
18	2435	3222	2222	3223	1232	1211	2435	4223	0000	2010	0000	1121	0000	0000	0000	2120
19	4122	2211	3212	2221	2112	1110	4222	2221	0311	3111	1211	2221	0100	1011	1311	3221
20	3431	2121	2321	1122	0110	1111	3431	2122	0311	2211	0311	1222	0100	0111	0311	2222
21	0112	1010	2211	1221	0100	0010	2212	1221	2121	2110	2121	1221	1120	1111	2121	2221
22	1111	1000	1111	0110	0000	0100	1111	1110	0010	2210	0011	1212	0000	1111	0011	2212
23	0011	2201	0010	1222	0000	1100	0011	2222	0333	2221	1212	2222	0220	1021	1333	2222
24	1001	3423	1000	2333	0000	1232	1001	3433	2121	2210	1111	1211	0000	1110	2121	2211
25	4444	4333	3243	4433	3243	2322	4444	4433	3111	1010	3101	0111	1000	1120	3111	1121
26	6314	4212	4213	3222	3201	2111	6314	4222	1332	2111	3322	2221	1122	1110	3332	2221
27	0232	3111	1231	3312	1233	2201	1233	3312	3231	5521	3331	4433	1120	3421	3331	5533
28	3101	1000	2100	0211	1000	1100	3101	1211	1221	3212	1321	1323	1230	0212	1331	3323
29	0001	1001	0000	1101	0000	0000	0001	1101								
30	1203	1100	2212	1210	0102	0010	2213	1210								
31	0013	3301	0002	2212	0001	1201	0013	3312								
March																
	D		H		Z		K									
1	2000	2321	2011	2223	2000	1212	2011	2323								
2	3401	2200	3301	1211	3300	1100	3401	2211								
3	0100	1110	1100	0111	0000	0100	1100	1111								
4	0000	1013	0000	0133	0000	0022	0000	1133								
5	1001	3111	2112	2122	1001	2110	2112	3122								
6	1123	2210	1112	1232	0012	1111	1123	2232								
7	3322	4231	2321	2232	1221	1132	3322	4232								
8	2312	3111	3212	2113	1201	1111	3312	3113								
9	2212	2220	2211	1222	1112	1121	2212	2222								
10	0122	1100	2111	0122	0111	0001	2122	1122								
11	1223	3225	2222	2234	0021	1234	2223	3235								
12	6664	3221	5554	2331	6554	1211	6664	3331								
13	3111	2201	3100	1213	2000	1012	3111	2213								
14	2101	2211	1111	1223	0100	1121	2111	2223								
15	4354	3321	2342	1333	3343	1221	4354	3333								
16	0445	2110	1333	1222	0445	1111	1445	2222								
17	5523	4322	4433	3333	5532	2233	5533	4333								
18	0443	2212	1231	1222	0342	1221	1443	2222								
19	0131	2133	1121	1244	0032	1134	1132	2244								
20	5233	2324	5231	1333	6242	1223	6243	2334								
21	4243	3113	3231	2232	3242	1112	4243	3233								
22	1421	3211	2312	2232	0333	1121	2433	3232								
23	2012	2346	1101	2268	2010	2167	2112	2368								
24	8678	5310	8788	5323	8777	4312	8788	5323								
25	1244	4223	2244	3223	1254	2222	2254	4223								
26	3022	3211	2112	2222	2011	1211	3122	3222								
27	2322	3110	1201	1211	1101	1210	2322	3211								
28	0211	2324	0111	2323	0101	1212	0211	2324								
29	3312	2324	3211	1323	2111	1212	3312	2324								
30	3312	2222	3211	1235	2101	1123	3312	2235								
31	4312	3221	3212	2332	1011	1221	4312	3332								

