



ROYAL OBSERVATORY  
BULLETINS

JOINT PUBLICATIONS OF THE  
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX  
ROYAL OBSERVATORY, CAPE OF GOOD HOPE

Geomagnetism

*Numbers 40, 57, 63, 134*

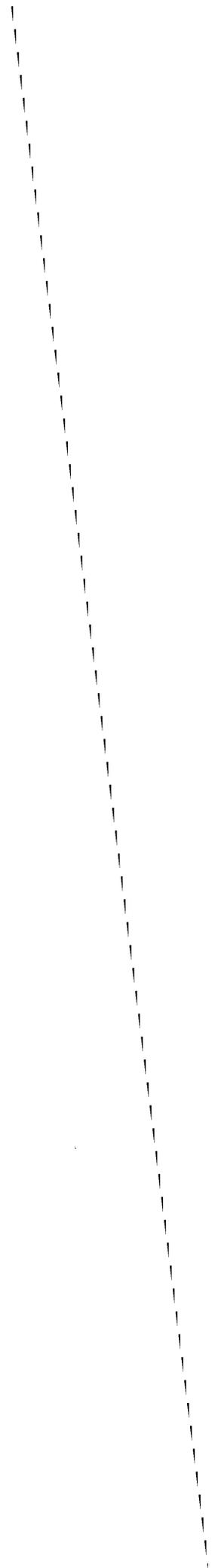
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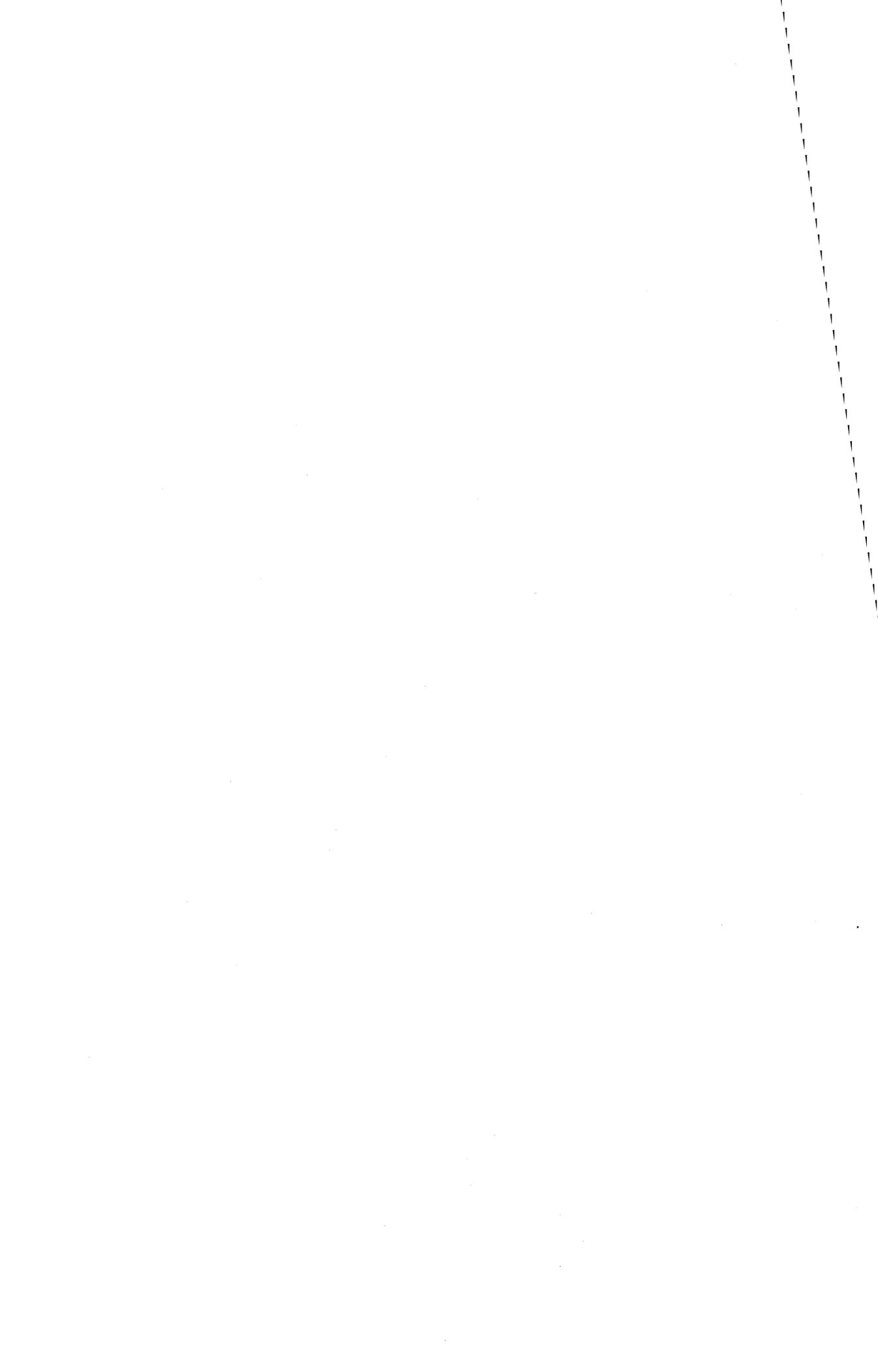
LONDON: HER MAJESTY'S STATIONERY OFFICE

1969



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BULLETINS

JOINT PUBLICATIONS OF THE  
ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX  
ROYAL OBSERVATORY, CAPE OF GOOD HOPE

*Number 146*

Magnetic Results 1959, 1960 and 1961  
(Hartland)

Royal Greenwich Observatory  
Herstmonceux Castle  
Hailsham, Sussex

R. v. d. R. Woolley  
*Astronomer Royal*



LONDON: HER MAJESTY'S STATIONERY OFFICE

1969

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## MAGNETIC RESULTS 1959, 1960, 1961 (HARTLAND)

### INTRODUCTION

The magnetic observatory at Hartland, North Devon, has been operating continuously since 1957 January 1. This observatory replaced the Abinger magnetic observatory which closed on 1957 March 31, after the electrification of a nearby railway. The Hartland observatory is situated on the north-west boundary of the village of Hartland about twelve miles from the nearest town, Bideford. The nearest railway line, which is not electrified, is also about twelve miles from the observatory. The site is in the southern half of a large meadow, the northern side of which falls steeply away to form part of the southern slope of a wooded valley which extends two miles westward to the coast. Near this point the coast turns sharply eastward and runs about two miles north of the observatory.

The coordinates of the observatory are:

	Geographic	Geomagnetic
Latitude	50° 59'7 N	+54°6
Longitude	335° 31'0 E	+79°0

Height above m.s.l. 310 feet = 95 metres

The non-magnetic buildings have lime-brick walls, concrete and wood floors and wood and copper roofs.

The variometer building contains two thermally-insulated inner chambers separated by a central passage. The two chambers are thermostatically controlled and each is divided into three sections by partitions provided with light-proof sliding panels extending from floor to ceiling. Normally these panels remain open, but they may be closed when adjustments to instruments in any one section are in progress. Each section has its own exit door to the central passage. Of the six sections, five are furnished with concrete piers designed to accommodate the various magnetic recorders; the sixth serves as a small laboratory and contains the auxiliary equipment used for scaling the variometers.

The absolute instrument building is provided with a number of piers, certain of which are permanently allocated to the standard magnetometers. The remainder are available for use with other instruments.

#### *Absolute Instruments*

D, Declinometer with collimating magnet and theodolite

H, Schuster-Smith Coil magnetometer

Z, Dye Coil magnetometer

The potentiometers used in circuit with the coils are subjected annually to a check calibration at the National Physical Laboratory, Teddington.

## Variometers

La Cour	Time Scale	Element	Adopted Scale Value
Normal-run	15mm/hr	D	1.01/mm
		H	1959 Jan. 1-1960 Apr. 30 4.13γ/mm
			1960 May 1-1961 Apr. 30 4.17γ/mm
			1961 May 1-1961 June 7 4.20γ/mm
			1961 June 7-1961 Dec. 31 4.13γ/mm
		Z	1959 Jan. 1-1959 Apr. 30 3.84γ/mm
			1959 May 1-1959 June 30 3.91γ/mm
			1959 July 1-1960 Apr. 30 (4.00-.0017γ)γ/mm
			1960 May 1-1961 Apr. 4 (4.04-.0019γ)γ/mm
			1961 Apr. 4-1961 Dec. 31 (4.30+.0028γ)γ/mm
Quick-run	3.1mm/min	D	1.1/mm
		H	4.0γ/mm
		Z	4.4γ/mm
Insensitive	15mm/hr	D	2.52/mm
		H	21.0γ/mm
		Z	12.2γ/mm

The scale values of the normal-run recorders were determined with the aid of Helmholtz-Gaugain coils. The imposed fields were approximately  $\pm 155\gamma$  and  $\pm 385\gamma$ . For D and H, the scale values obtained from the two series of determinations agreed within a small fraction of one per cent.

The observed scale values of the D and H normal-runs are given below:

	1959		1960		1961	
	D	H	D	H	D	H
	'/mm	γ/mm	'/mm	γ/mm	'/mm	γ/mm
January	-	-	-	-	1.010	4.190
February	-	-	1.008	4.161	1.012	4.189
March	1.007	4.133	-	-	1.013	4.194
April	1.011	4.147	1.007	4.173	1.009	4.195
May	1.010	4.146	1.005	4.162	1.008	4.204
June	1.008	4.133	1.006	4.161	1.008	4.137
July	-	-	-	-	1.010	4.124
August	1.005	4.135	-	-	-	-
September	-	-	1.004	4.155	1.004	4.133
October	1.006	4.161	-	-	1.008	4.137
November	1.005	4.160	1.008	4.189	1.006	4.149
December	-	-	-	-	-	-

During the latter half of 1959, four pairs of field values,  $\pm 155\gamma$ ,  $\pm 256\gamma$ ,  $\pm 385\gamma$  and  $\pm 539\gamma$ , were employed in the determination of the scale values for Z. The results obtained showed the variation of the scale value with ordinate. In an attempt to compensate for this effect the scale value was represented by

$$s = a + by$$

$y$  being the ordinate in mm. This was an improvement, but  $a$  and  $b$  were found to vary slightly with the field strengths employed in the determination, suggesting a possible imperfection in the bearings of the magnet system. A detailed analysis of the results indicates a possible uncertainty of a few gammas in the deduced values of Z within the band approximately  $200\gamma$  to  $400\gamma$  below the normal value.

The marked changes of scale in Z on 1961 April 4, and in H on 1961 June 7, coincide with adjustments of the variometers. Adjustments to the optical system of the D variometer on 1961 November 30, were accompanied only by a small change of base-line.

The scale values of the quick-run and insensitive records are approximate and have been derived by comparisons of the movements of the traces with corresponding movements on the normal-run records.

#### *Published Tables*

In general the tables are self-explanatory but the following points should be noted:

Table IV. The lower limit for  $K = 9$  is  $500\gamma$ ;

Tables V, VI and VII. No adjustment has been made for non-cyclic change. The inequalities of the north and west components and of inclination are computed from those of D, H and Z. Extreme values are printed in heavy type for 1959 and 1960 and in italics for 1961. Of the figures given under the heading 'Range', those entered against the year and the seasons are means of the relevant monthly values below which they appear, and do not represent the range of the mean curve for the period.

#### *Magnetograms*

The practice of publishing reduced-scale copies of the magnetograms has been discontinued. Microfilms of the magnetograms have been deposited at the four World Data Centres, from which copies may be obtained. Alternatively, copies of magnetograms for individual days may be obtained from:

Geomagnetism Department,  
Institute of Geological Sciences,  
Royal Greenwich Observatory,  
Herstmonceux Castle,  
Hailsham,  
Sussex,  
England.



**RESULTS OF OBSERVATIONS**

**1959**

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
9° + Tabular Quantities																	
1 *	67.8	68.0	68.2	68.5	68.5	68.5	68.0	67.5	67.0	67.5	69.3	70.0	71.2	72.5	72.3	70.5	
2 *	67.5	67.8	68.1	68.1	68.2	67.9	67.8	67.2	66.8	67.2	68.0	69.8	72.5	74.2	72.8	71.5	
3	68.2	68.5	68.4	67.6	67.6	67.7	68.6	66.8	66.2	66.5	67.6	69.5	72.3	73.2	72.3	71.4	
4	66.5	66.5	66.5	66.6	66.5	66.7	66.8	66.5	65.9	66.5	69.3	70.5	71.0	72.2	73.5	73.6	
5	67.5	68.2	68.3	68.3	67.9	67.2	67.0	67.2	66.7	66.6	68.2	70.4	74.5	75.6	71.5	73.5	
6 **	61.1	66.2	67.6	66.5	66.7	66.5	64.5	65.6	65.3	66.4	66.5	68.5	70.7	74.2	73.5	72.2	
7 **	60.8	63.3	63.8	66.2	66.2	65.2	66.7	65.1	64.2	65.7	66.4	68.0	70.5	71.9	71.7	70.6	
8	59.0	60.2	61.4	64.0	66.4	67.1	66.6	65.8	65.2	66.3	68.4	69.0	69.8	72.4	72.1	71.9	
9 **	60.5	62.0	65.4	65.2	65.4	65.7	65.9	65.9	65.6	66.6	69.4	69.5	73.6	75.2	74.5	72.7	
10 **	53.5	56.1	62.4	64.4	66.6	68.9	67.5	69.6	69.3	71.6	70.8	73.0	74.5	75.6	75.4	74.3	
11	61.5	62.2	64.2	64.4	65.3	65.4	66.5	66.8	66.5	68.5	69.4	70.5	72.3	74.5	73.5	73.1	
12	63.9	63.8	62.5	65.1	66.5	65.7	65.7	65.8	65.4	66.5	68.3	70.2	71.9	72.5	71.2	68.8	
13	66.5	67.1	67.9	68.2	68.1	67.7	67.4	66.2	65.8	68.4	69.5	71.4	72.6	73.4	73.0	70.3	
14	66.6	67.0	67.7	67.8	67.6	67.5	67.2	66.3	66.2	67.2	68.3	69.3	70.3	71.3	72.5	71.5	
15	64.6	64.6	64.8	64.7	61.4	64.9	65.9	65.6	65.3	65.5	67.4	68.9	71.4	72.4	72.3	71.3	
16	67.2	66.7	67.3	67.7	67.9	67.5	67.3	67.0	66.5	68.0	71.5	73.4	75.9	75.5	73.6	75.1	
17	68.3	66.4	65.7	68.9	68.1	68.4	67.3	66.7	67.5	68.2	69.6	71.3	72.8	74.4	73.6	71.5	
18	67.5	65.2	68.8	64.1	62.7	64.5	66.5	66.4	65.1	64.5	66.5	68.5	70.8	70.8	73.2	73.4	
19	67.5	67.5	67.4	68.8	66.5	66.5	66.4	66.1	65.2	66.4	67.8	69.2	69.5	71.7	71.6	70.4	
20 *	67.7	67.7	67.8	67.6	67.4	66.7	66.5	66.1	65.8	66.7	67.8	68.6	70.5	71.8	71.6	70.5	
21 *	67.9	68.2	68.0	67.5	67.3	67.3	66.8	65.9	64.9	65.4	66.8	68.5	71.0	72.4	72.4	71.2	
22	67.7	67.8	68.3	68.0	67.8	67.8	66.6	66.3	67.8	67.5	68.1	69.2	69.7	71.6	72.1	71.5	
23	64.3	65.3	65.4	67.2	67.7	67.6	67.5	67.0	66.2	66.1	66.3	66.5	68.2	71.2	72.2	71.5	
24 *	66.8	67.0	68.1	67.9	67.6	67.5	67.2	66.6	66.7	66.5	66.5	67.7	70.2	71.6	70.8	70.4	
25	67.6	66.5	67.4	67.5	67.5	66.8	66.6	66.1	65.4	65.3	65.2	67.5	73.2	74.5	77.6	77.5	
26 **	66.2	66.6	67.2	67.0	67.6	67.4	66.3	65.5	64.6	64.6	66.3	70.0	70.0	70.5	71.5	73.8	
27	67.9	68.2	68.2	67.7	67.5	67.4	66.2	65.4	64.7	65.4	67.2	67.5	68.6	70.3	70.8	70.5	
28	65.4	64.0	63.5	64.7	64.9	65.2	66.2	65.4	64.4	64.1	65.0	67.6	70.6	72.7	73.4	72.9	
29	67.5	67.5	67.3	67.2	67.0	66.8	66.3	65.7	65.7	67.5	67.3	68.6	68.5	70.9	72.4	74.3	
30	61.4	64.1	64.7	65.2	63.7	65.0	65.5	65.2	65.3	65.2	65.7	67.6	68.8	70.2	70.6	70.3	
31	66.4	65.7	65.3	64.5	63.7	64.8	67.6	67.3	64.7	66.2	67.9	69.5	69.7	71.3	71.9	71.5	
Mean	65.3	65.7	66.4	66.7	66.6	66.8	66.7	66.3	65.9	66.6	67.8	69.3	71.2	72.7	72.6	72.1	
Mean *	67.5	67.7	68.0	67.9	67.8	67.6	67.3	66.7	66.2	66.7	67.7	68.9	71.1	72.5	72.0	70.8	
Mean **	60.4	62.8	65.3	65.9	66.5	66.7	66.2	66.3	65.8	67.0	67.9	69.8	71.9	73.5	73.3	72.7	
FEBRUARY																	
9° + Tabular Quantities																	
1	64.5	65.3	66.5	66.8	65.7	64.4	66.1	66.1	64.5	66.0	68.5	69.6	72.5	73.8	72.5	72.1	
2	66.6	66.3	66.5	65.9	63.8	63.5	65.9	66.5	63.4	63.4	66.7	66.3	71.6	73.6	76.3	75.5	
3	61.2	63.4	65.7	67.8	65.7	66.5	67.1	65.6	64.4	63.9	66.5	71.4	73.3	72.2	73.6	72.8	
4 **	53.3	60.3	62.1	66.8	64.9	65.8	64.4	65.4	62.6	62.1	63.2	67.6	72.8	74.2	75.8	73.5	
5	63.4	66.7	66.7	65.4	64.9	64.6	64.4	64.7	63.9	64.0	65.1	69.3	73.3	76.3	76.2	76.0	
6	60.7	61.4	65.4	66.2	67.1	66.4	65.7	64.7	63.5	63.7	64.7	66.5	70.3	72.2	74.6	73.8	
7	64.8	65.4	66.6	67.7	67.3	65.2	65.7	64.4	63.8	64.2	66.2	68.5	71.1	71.2	72.0	73.3	
8	67.5	67.5	67.8	66.7	66.5	66.2	64.7	64.4	64.4	63.0	65.4	67.5	70.6	74.0	73.8	72.9	
9	60.6	58.2	57.7	64.4	67.8	64.8	65.2	71.4	68.3	66.5	66.8	68.5	71.6	72.5	75.1	74.2	
10 *	63.4	64.8	65.4	65.8	66.4	66.5	66.0	56.6	65.0	64.1	65.3	66.6	69.0	70.4	71.3	72.3	
11	66.2	66.5	67.4	67.6	68.8	66.1	65.8	65.4	65.1	66.5	72.8	74.0	75.0	79.6	80.5	79.6	
12	59.9	64.0	65.2	64.4	68.5	66.5	65.4	65.1	63.5	63.6	66.9	67.5	71.8	72.4	74.5	72.0	
13	60.4	63.4	65.4	66.5	67.2	67.3	66.8	66.3	64.9	64.0	64.4	67.5	71.6	73.6	71.8	72.8	
14	62.2	63.5	63.8	66.8	66.8	67.5	68.5	67.8	65.5	64.2	64.6	67.5	71.8	73.2	75.8	75.9	
15	63.3	63.3	62.7	66.0	70.5	69.5	72.3	67.5	65.8	66.0	72.6	72.4	73.6	73.1	76.1	75.4	
16 **	65.5	67.5	69.5	66.3	65.4	59.4	69.2	68.5	66.5	62.4	64.2	66.3	69.5	74.1	75.5	76.5	
17	54.3	55.3	55.1	64.8	60.4	66.4	68.2	68.3	65.2	65.2	66.8	67.4	68.0	67.8	66.3	65.1	
18 *	69.3	69.3	68.3	66.4	65.8	65.2	64.7	64.2	62.4	62.2	63.5	66.1	69.1	69.8	69.3	68.8	
19	68.9	66.2	67.8	70.2	69.5	67.6	67.7	69.3	65.2	64.2	65.4	67.6	69.3	70.3	70.2	69.3	
20 *	66.9	66.7	66.5	66.5	66.4	66.2	65.6	65.1	63.9	63.7	65.6	68.1	70.6	71.8	71.4	70.5	
21 *	67.2	67.0	66.6	66.5	66.5	66.4	66.1	65.9	64.3	62.6	63.4	66.1	68.8	70.6	72.1	70.8	
22	67.7	67.6	67.0	66.5	66.4	68.4	64.8	65.0	64.2	67.0	69.8	72.4	72.5	73.7	73.5	71.8	
23	64.1	64.6	62.0	62.1	62.0	63.4	63.4	64.6	69.5	69.3	67.1	69.5	68.9	70.5	70.6	70.4	
24 *	66.8	67.1	67.3	67.1	66.6	66.2	65.4	65.0	63.9	62.6	64.4	67.6	71.3	72.5	73.4	72.4	
25 **	67.3	67.1	67.3	67.4	68.3	68.5	70.6	71.8	64.7	64.3	66.5	73.7	79.7	80.3	78.6	82.5	
26 **	49.6	57.5	58.6	62.5	59.1	61.8	64.4	72.1	65.8	65.4	67.3	69.5	74.5	75.2	74.0	74.2	
27	61.6	64.0	65.9	63.8	64.3	65.4	65.8	65.4	64.9	64.8	66.7	69.6	71.5	75.6	76.7	79.0	
28 **	65.4	64.8	59.7	65.9	64.8	64.8	64.6	64.6	64.4	64.9	67.5	70.8	74.1	77.8	77.7	76.0	
Mean	63.3	64.5	64.9	66.1	66.0	65.7	66.2	66.1	64.8	64.4	66.4	68.8	71.7	73.3	73.9	73.6	
Mean *	66.7	67.0	66.8	66.5	66.3	66.1	65.6	63.4	63.9	63.0	64.4	66.9	69.8	71.0	71.5	71.0	
Mean **	60.2	63.4	63.4	65.8	64.5	64.1	66.6	68.5	64.8	63.8	65.7	69.6	74.1	76.3	76.3	76.5	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16<sup>h</sup> 17<sup>h</sup> 18<sup>h</sup> 19<sup>h</sup> 20<sup>h</sup> 21<sup>h</sup> 22<sup>h</sup> 23<sup>h</sup> 24<sup>h</sup> Mean Maximum Minimum Range Date  
 9° + Tabular Quantities JANUARY

										h m		h m				
70.3	70.5	70.4	69.5	68.6	68.3	67.9	67.8	69.1	14 09	73.1	09 14	66.5	5.6	1	*	
71.6	71.6	70.9	69.9	69.0	68.4	68.4	68.3	69.3	13 52	74.7	08 44	66.4	8.3	2	*	
71.5	71.5	71.5	70.4	69.6	69.0	68.0	67.4	69.2	13 48	73.7	08 51	65.6	8.1	3		
73.5	74.5	74.5	71.4	68.5	67.9	67.4	67.5	69.2	17 41	76.7	09 11	64.9	11.8	4		
71.3	72.6	68.2	71.4	62.6	61.8	53.4	61.9	68.0	12 56	79.6	22 13	48.5	31.1	5		
72.7	71.2	70.4	68.5	65.1	59.5	63.4	61.3	67.3	14 09	75.9	21 23	56.9	19.0	6	**	
70.5	70.6	70.3	65.6	66.3	66.6	65.6	60.4	66.8	13 58	72.7	23 59	54.9	17.8	7	**	
71.7	73.0	69.8	68.6	67.5	66.2	64.6	63.0	67.1	13 29	74.6	00 08	53.5	21.1	8		
78.6	76.1	77.4	70.5	70.7	61.2	54.5	55.2	67.8	17 02	88.2†	23 41	46.3†	41.9	9	**	
72.1	72.2	69.5	61.8	65.3	65.1	57.1	60.2	67.4	14 01	79.6	01 07	49.7	29.9	10	**	
71.8	70.5	69.6	68.7	67.3	66.5	65.8	64.2	67.9	13 39	75.0	01 18	55.0	20.0	11		
70.2	71.5	72.5	70.8	68.0	67.6	67.2	65.8	67.8	13 30	73.7	02 05	61.1	12.6	12		
70.3	70.3	70.3	68.3	66.5	66.8	66.5	66.5	68.7	14 12	74.1	07 41	65.4	8.7	13		
70.9	71.6	71.3	69.9	68.3	67.2	64.3	63.5	68.4	14 20	74.6	23 08	61.8	12.8	14		
70.8	70.4	69.7	68.9	67.8	67.5	67.2	67.0	67.5	14 10	73.1	04 31	60.3	12.8	15		
71.4	72.0	73.6	70.4	67.5	63.3	64.6	66.8	69.5	12 24	78.4	21 49	61.5	16.9	16		
73.8	70.4	69.3	64.7	65.7	67.5	67.7	67.7	69.1	13 51	78.7	19 56	63.7	15.0	17		
69.9	66.2	69.5	68.1	64.3	63.4	63.4	66.7	67.1	14 30	74.4	21 00	60.4	14.0	18		
69.5	69.7	66.5	63.2	67.0	67.3	67.5	67.6	67.8	13 38	73.9	19 28	60.4	13.5	19		
69.5	69.5	68.5	67.6	67.8	65.6	67.8	67.8	68.1	14 02	72.6	21 16	64.1	8.5	20	*	
70.6	70.6	70.5	70.5	68.5	67.6	67.5	67.6	68.5	14 07	73.4	08 58	64.5	8.9	21	*	
70.7	69.7	69.6	67.8	67.6	68.0	67.7	67.0	68.6	14 33	72.7	24 00	63.6	9.1	22		
71.3	70.5	69.5	67.4	66.8	68.4	67.9	67.1	67.9	14 41	73.6	00 03	63.4	10.2	23		
70.4	70.2	69.5	68.5	67.7	67.5	67.5	67.5	68.2	13 22	71.8	00 00	66.0	5.8	24	*	
76.1	73.6	70.0	69.6	68.5	67.7	66.8	65.5	69.2	15 50	80.0	18 41	62.1	17.9	25		
74.6	70.4	69.5	68.6	67.7	68.0	67.7	67.8	68.3	16 41	77.6	08 55	63.7	13.9	26	**	
70.8	71.8	71.5	71.0	68.5	67.2	66.1	66.3	68.2	18 01	73.3	09 31	63.0	10.3	27		
72.0	72.2	72.6	71.2	68.8	68.3	67.5	66.4	67.9	14 27	73.7	01 18	62.8	10.9	28		
76.5	72.7	72.7	70.3	65.7	66.5	66.2	62.6	68.5	16 26	78.6	20 35	59.5	19.1	29		
70.5	70.4	70.5	68.5	68.7	67.5	66.5	66.6	67.0	13 50	71.6	00 14	58.4	13.2	30		
71.1	69.5	70.2	69.6	67.6	66.5	66.8	65.7	67.7	13 55	72.8	03 01	61.5	11.3	31		
71.8	71.2	70.6	68.7	67.4	66.4	65.5	65.4	68.2	-	75.4	-	60.5	14.9	Mean		
70.5	70.5	70.0	69.2	68.3	67.5	67.8	67.8	68.6	-	73.1	-	65.5	7.6	Mean *		
73.7	72.1	71.4	67.0	67.0	64.1	61.7	61.0	67.5	-	78.8	-	54.3	24.5	Mean **		

9° + Tabular Quantities

FEBRUARY

										h m		h m				
72.5	71.5	68.1	66.5	66.5	65.4	65.5	66.1	67.8	13 52	75.5	05 26	63.4	12.1	1		
76.2	73.5	73.5	72.1	69.3	68.5	66.7	65.4	68.6	14 17	77.6	24 00	57.7	19.9	2		
73.5	72.3	72.6	70.2	67.1	64.9	62.9	54.8	67.5	13 55	75.8	24 00	52.0	23.8	3		
76.2	72.8	73.0	66.8	60.1	61.7	63.5	61.7	66.3	13 59	80.4	00 11	50.4	30.0	4	**	
72.0	73.5	69.3	64.6	65.1	65.5	63.4	59.9	67.4	14 58	78.9	22 53	56.4	22.5	5		
71.5	69.4	68.9	58.8	64.4	65.6	65.6	65.2	66.5	15 25	75.6	19 41	57.0	18.6	6		
71.5	69.5	67.2	67.8	66.8	65.5	66.2	66.8	67.4	15 31	73.6	00 44	62.5	11.1	7		
72.5	70.8	69.7	69.0	68.1	58.2	60.1	61.9	67.2	13 59	76.8	21 43	55.4	21.4	8		
71.0	70.0	68.5	68.3	68.0	66.6	65.4	63.0	67.3	14 39	76.4	01 49	55.4	21.0	9		
71.1	70.5	69.9	69.5	68.8	66.9	65.6	65.7	67.0	15 24	73.2	00 28	62.5	10.7	10	*	
75.1	69.5	70.4	68.6	66.6	65.5	64.3	62.5	69.6	14 19	85.0	24 00	54.5	30.5	11		
71.0	70.6	66.5	66.8	65.9	64.6	63.7	62.4	66.8	14 16	76.4	00 01	54.4	22.0	12		
69.1	71.1	68.7	61.3	68.5	66.1	61.2	63.2	66.8	15 44	75.6	22 50	57.9	17.7	13		
68.5	72.2	68.5	66.2	65.3	66.3	63.5	65.3	67.6	14 51	78.6	00 02	60.9	17.7	14		
69.9	63.4	69.6	68.6	67.8	66.6	66.0	65.7	68.7	14 50	78.1	00 39	59.7	18.4	15		
71.5	68.1	71.2	66.6	65.0	59.0	60.1	57.4	66.9	19 05	85.6	21 41	49.4	36.2	16	**	
64.6	64.7	64.4	66.4	66.2	67.1	67.5	68.5	64.8	06 38	69.7	01 30	50.3	19.4	17		
67.2	66.8	67.5	68.5	67.8	67.9	68.1	68.5	66.9	13 11	70.2	09 11	61.5	8.7	18	*	
69.2	67.5	67.1	67.3	67.6	67.5	67.2	66.8	67.9	03 13	72.6	09 19	63.6	9.0	19		
69.5	69.0	68.5	68.1	67.6	67.5	67.4	67.3	67.5	13 30	72.5	09 41	62.5	10.0	20	*	
69.7	68.2	68.4	67.3	66.6	66.2	66.5	67.5	67.1	14 21	73.6	09 50	61.5	12.1	21	*	
69.6	69.2	67.8	68.3	68.2	67.9	67.5	67.6	68.5	11 07	75.6	07 50	63.0	12.6	22		
69.3	68.7	68.1	67.4	66.9	66.6	66.7	66.7	66.8	11 58	71.6	02 44	59.3	12.3	23		
70.5	69.2	68.4	67.9	67.5	67.3	67.2	66.9	67.7	14 51	74.5	09 41	62.5	12.0	24	*	
80.1	73.7	70.4	70.2	64.8	59.4	59.5	58.5	69.8	17 12	103.7†	23 59	53.4	50.3	25	**	
68.1	68.5	68.5	65.0	63.3	55.8	57.4	61.4	65.0	12 48	79.5	00 18	45.3	34.2	26	**	
78.9	75.2	61.6	68.9	69.2	66.0	64.9	62.4	68.0	15 32	81.8	18 02	54.5	27.3	27		
73.5	66.2	66.2	67.9	60.8	66.0	62.8	60.7	67.2	15 12	80.0	20 49	45.0†	35.0	28	**	
71.5	69.8	68.7	67.3	66.4	65.1	64.5	63.9	67.4	-	77.4	-	56.9	20.6	Mean		
69.6	68.7	68.5	68.3	67.7	67.2	67.0	67.2	67.2	-	72.8	-	62.1	10.7	Mean *		
73.9	69.9	69.9	67.3	62.8	60.4	60.7	59.9	67.0	-	85.8	-	48.7	37.1	Mean **		

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>MARCH</b>																	
	9° + Tabular Quantities																
1 **	55.1	58.1	62.8	64.7	68.9	61.3	63.4	68.4	69.4	66.3	68.8	71.9	72.8	74.3	78.6	68.3	
2	62.2	64.2	65.4	64.3	62.3	65.2	63.5	67.3	66.5	66.8	68.6	71.1	72.5	74.2	74.2	72.2	
3	63.8	62.2	62.9	65.2	68.4	65.9	63.8	63.7	62.9	64.4	67.1	70.1	72.5	75.1	73.4	74.3	
4	62.4	62.4	63.4	63.2	64.3	63.3	63.3	63.8	63.4	64.4	65.6	69.7	71.2	71.5	71.9	72.2	
5	65.6	65.7	63.3	60.1	60.6	60.8	61.6	62.4	61.4	62.4	64.5	67.6	72.2	74.4	74.2	74.0	
6	64.4	63.6	61.3	63.5	65.4	64.6	64.5	64.4	63.7	63.5	65.4	69.5	72.3	73.3	73.3	71.9	
7	66.2	65.7	65.4	64.8	64.5	64.4	64.3	63.2	61.4	62.4	65.0	69.4	72.7	74.5	75.1	75.9	
8	58.4	60.9	60.7	62.3	63.3	64.9	63.7	63.0	62.7	63.0	64.4	66.5	70.4	72.0	72.5	72.2	
9 *	65.3	64.5	65.1	64.2	63.4	64.0	64.2	63.3	61.2	61.4	63.4	66.5	70.1	73.0	73.2	72.5	
10 *	67.2	67.3	67.4	67.2	66.9	66.4	65.4	62.9	59.9	59.4	62.4	67.2	71.3	73.6	74.5	73.5	
11 *	67.2	67.2	67.4	67.2	67.1	66.5	65.4	63.4	61.4	61.8	64.1	68.0	72.5	73.9	74.1	72.8	
12	65.5	62.4	64.3	65.8	65.8	67.1	66.2	63.1	61.5	61.9	65.9	68.6	76.5	75.6	75.2	74.8	
13	66.4	65.8	65.9	65.9	66.3	65.9	65.6	64.4	62.6	61.9	63.9	68.4	72.5	74.2	74.5	73.5	
14	65.8	66.1	66.5	66.5	66.6	65.9	66.8	66.5	65.4	63.4	64.0	65.4	69.4	72.4	73.5	73.1	
15	65.6	65.4	67.9	68.1	66.2	65.4	65.1	63.9	62.5	62.3	64.7	67.6	69.7	72.5	74.5	73.5	
16 *	65.7	63.7	64.9	65.3	65.5	65.8	65.4	64.4	63.2	62.4	64.2	67.4	70.3	72.3	73.0	72.3	
17	65.7	65.0	65.4	65.3	65.8	65.9	66.5	64.5	63.2	63.4	65.2	68.2	70.7	72.2	72.4	70.5	
18	67.4	67.5	67.4	67.2	67.9	66.8	65.5	64.2	62.4	62.4	65.0	67.2	69.2	69.6	69.6	68.9	
19	66.8	66.8	66.5	65.8	65.4	65.3	65.2	64.5	63.8	63.7	66.4	69.8	72.5	72.5	72.5	71.0	
20	67.2	66.8	66.7	66.0	64.7	64.4	64.2	63.9	64.2	66.4	70.1	73.7	75.4	74.3	72.7	70.2	
21	67.1	67.0	66.9	66.2	65.7	64.9	64.3	62.5	61.6	63.2	66.8	72.1	74.2	76.6	74.5	73.3	
22 *	67.3	67.1	67.0	66.2	65.6	64.6	63.3	61.2	59.9	61.8	64.5	68.7	72.6	73.8	73.5	71.1	
23	66.8	66.5	65.7	65.8	65.3	65.7	65.6	61.9	61.1	61.8	63.9	68.6	72.5	73.6	73.8	72.5	
24	66.3	66.1	64.4	65.4	64.9	65.2	64.4	61.7	59.8	61.0	64.6	70.4	75.2	78.0	77.3	74.1	
25	67.3	67.5	66.8	67.5	63.5	60.6	60.4	58.5	56.4	58.4	62.6	68.6	74.9	78.6	80.6	80.4	
26 **	66.0	65.4	65.4	65.5	65.4	64.8	63.6	60.8	58.5	59.4	68.0	73.4	81.3	88.8	83.2	79.5	
27 **	48.1	41.2	49.6	49.3	50.4	51.6	65.2	80.5	57.1	60.1	67.9	76.1	80.2	87.1	88.1	81.7	
28 **	62.8	63.8	63.3	63.2	64.3	64.3	61.4	58.4	56.7	62.0	64.7	70.1	73.8	78.6	84.3	83.0	
29 **	45.2	50.1	53.3	51.3	58.3	57.3	66.4	61.5	59.3	59.4	64.7	71.1	74.5	75.2	73.8	71.5	
30	66.1	64.5	66.5	67.4	65.4	64.3	64.4	61.5	59.7	60.6	62.5	67.4	70.5	69.9	71.1	68.2	
31	65.2	65.4	65.2	62.1	63.6	62.4	63.2	62.4	60.4	62.1	66.5	72.0	74.5	75.9	73.7	72.1	
Mean	63.9	63.7	64.3	64.3	64.6	64.0	64.4	63.7	61.7	62.4	65.3	69.4	72.9	74.9	75.1	73.4	
Mean *	66.5	66.0	66.4	66.0	65.7	65.5	64.7	63.0	61.1	61.4	63.7	67.6	71.4	73.3	73.7	72.4	
Mean **	55.4	55.7	58.9	58.8	61.5	59.9	64.0	65.9	60.2	61.4	66.8	72.5	76.5	80.8	81.6	76.8	
<b>APRIL</b>																	
	9° + Tabular Quantities																
1	63.2	62.8	61.2	57.4	58.8	60.8	63.0	61.4	60.0	61.4	64.6	68.0	69.5	70.4	70.5	68.7	
2	65.4	65.4	65.2	65.0	64.7	64.6	63.9	61.9	59.4	58.5	61.8	67.5	72.5	73.8	74.6	73.5	
3	64.2	61.2	60.8	59.4	61.4	62.0	61.9	59.3	60.2	62.1	65.5	70.5	74.6	75.5	74.7	72.2	
4	61.4	62.2	62.4	64.2	63.5	62.8	62.0	58.6	57.4	60.2	64.7	70.2	72.6	73.8	72.8	70.3	
5 *	65.4	64.5	64.4	63.6	62.9	63.3	62.6	60.4	58.2	58.4	63.1	69.7	75.8	75.2	74.2	71.5	
6	67.4	67.5	66.1	65.4	64.7	64.2	62.6	60.2	57.6	59.3	63.6	68.7	73.3	74.5	74.2	72.5	
7	67.0	66.5	65.7	64.9	64.6	64.2	62.7	60.5	57.8	57.7	62.0	66.8	71.2	73.5	74.6	73.2	
8	61.4	58.7	58.4	56.7	58.6	59.4	59.9	59.0	58.4	58.6	62.9	67.8	73.6	74.5	73.8	76.4	
9 **	57.8	54.8	56.9	56.0	58.3	64.9	67.5	64.5	62.4	65.4	65.0	68.1	71.5	73.3	73.1	72.4	
10 **	64.9	64.6	66.6	61.3	61.8	62.4	62.5	62.8	67.7	62.1	61.4	68.3	77.7	80.5	83.1	81.6	
11	65.3	69.0	68.3	67.4	67.9	67.9	65.3	64.3	64.2	64.8	68.7	72.5	73.7	75.6	74.8	73.1	
12	63.9	64.0	64.1	64.4	63.6	63.2	62.3	60.5	57.5	57.6	60.8	65.2	69.6	72.2	72.6	71.3	
13	65.2	66.5	65.4	64.6	63.7	63.7	62.2	60.4	58.9	59.2	62.7	67.3	72.0	73.3	73.8	72.5	
14	65.5	66.7	69.1	64.8	64.9	64.9	65.1	64.1	62.2	62.2	64.5	67.2	71.4	74.3	74.9	73.5	
15	62.1	59.9	62.3	63.4	64.2	64.5	64.7	62.6	61.4	60.8	62.6	65.2	67.9	70.4	70.8	70.5	
16	66.2	67.3	65.8	65.9	66.4	66.5	64.3	63.0	61.2	60.5	63.5	67.2	69.2	71.2	70.6	69.4	
17	65.6	65.2	65.1	65.1	64.6	64.4	63.0	60.6	60.4	61.2	64.7	67.7	71.8	73.2	70.1	67.5	
18 *	62.4	63.0	65.5	65.0	64.0	63.2	61.7	60.4	59.4	60.2	63.1	66.6	69.5	72.2	72.7	72.2	
19 *	65.8	65.4	64.9	64.5	64.5	64.3	63.2	61.5	60.4	61.5	62.7	64.7	68.3	70.9	71.8	70.8	
20 *	66.3	66.3	65.6	65.2	63.9	62.4	61.2	59.7	59.3	60.4	62.8	65.3	69.7	72.0	71.9	70.9	
21	66.8	65.4	64.4	64.5	64.9	64.4	62.2	59.3	60.3	61.8	65.4	67.5	69.8	72.6	73.7	71.9	
22 *	66.7	66.1	66.0	65.4	64.8	63.3	61.5	60.0	58.7	59.3	61.8	65.3	69.2	71.9	72.6	71.6	
23 **	66.9	66.9	66.6	66.4	65.7	64.2	62.1	60.2	59.0	59.4	62.4	69.6	75.9	80.2	79.3	80.1	
24 **	63.3	62.5	61.6	61.8	62.2	62.3	59.5	58.4	58.9	60.8	64.4	70.8	77.6	79.4	80.6	77.4	
25	64.2	65.2	66.5	65.1	65.2	66.3	62.4	60.4	57.2	58.7	62.8	67.5	73.5	75.0	76.8	74.9	
26	65.2	65.6	61.4	58.5	62.0	62.7	60.7	60.4	58.8	60.4	63.2	68.7	71.3	72.4	72.1	71.6	
27	64.4	62.4	63.2	61.7	60.8	59.2	61.0	61.4	60.2	60.1	63.4	68.4	73.4	75.5	76.3	75.0	
28	61.4	61.5	61.1	60.2	60.8	60.3	59.9	59.4	57.3	60.4	64.5	67.4	69.6	72.8	73.4	72.3	
29 **	61.8	60.9	62.0	61.8	61.1	60.7	60.3	59.8	60.9	62.4	65.1	68.0	70.5	74.6	77.0	75.5	
30	63.0	62.5	61.7	61.4	60.5	60.0	59.4	59.3	58.4	58.7	62.1	65.1	69.3	76.5	78.5	76.6	
Mean	64.3	64.0	63.9	63.0	63.2	63.2	62.4	60.8	59.8	60.5	63.5	67.8	71.8	74.0	74.3	73.0	
Mean *	65.3	65.1	65.3	64.7	64.0	63.3	62.0	60.4	59.2	60.0	62.7	66.3	70.1	72.4	72.6	71.4	
Mean **	62.9	61.9	62.7	61.5	61.8	62.9	62.4	61.1	61.8	62.0	63.7	69.0	74.6	77.6	78.6	77.4	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date
9° + Tabular Quantities													
67.9	68.6	71.9	68.2	60.9	66.5	58.4	57.2	66.4	h m	79.6	h m	52.2	27.4
70.9	67.6	60.8	63.4	61.8	61.5	63.4	64.1	66.5	14 09	76.6	00 21	54.5	22.1
69.5	67.6	67.2	68.0	67.2	67.2	62.5	60.5	66.9	13 35	76.6	23 19	57.4	19.2
69.4	68.1	62.8	66.0	65.8	63.9	65.4	66.0	66.0	15 13	73.4	18 17	59.7	13.7
72.5	70.5	68.8	67.8	65.1	63.6	63.2	63.6	66.1	14 24	74.9	03 54	58.7	16.2
70.5	68.8	66.8	66.4	67.1	66.5	66.5	66.5	66.8	14 21	73.6	02 44	60.4	13.2
77.3	75.0	71.5	69.8	68.0	65.4	62.6	61.8	67.8	16 37	78.0	24 00	60.7	17.3
70.5	69.4	69.2	68.6	67.9	68.0	67.6	66.6	66.2	14 11	73.1	00 37	57.3	15.8
70.6	69.7	68.6	68.0	67.4	66.9	66.9	66.9	66.7	13 33	73.7	08 30	60.3	13.4
71.5	69.9	69.5	68.8	68.2	67.9	67.5	67.3	67.6	14 25	74.6	09 09	57.6	17.0
71.1	69.8	69.5	68.6	68.1	67.9	67.5	66.8	67.9	14 20	74.6	08 20	60.3	14.3
72.8	70.5	68.2	65.3	65.4	67.0	66.5	66.5	67.6	12 41	78.9	08 29	59.4	19.5
71.3	69.7	69.7	68.8	67.6	66.3	63.2	64.4	67.2	14 04	75.6	21 28	57.3	18.3
71.5	69.5	68.8	68.6	67.5	66.0	66.3	66.0	67.6	14 42	73.6	09 56	62.4	11.2
72.3	70.7	69.6	68.9	68.5	67.5	65.8	64.4	67.6	14 28	75.1	09 08	61.3	13.8
71.1	70.0	69.9	69.5	68.9	68.5	67.3	65.9	67.4	14 20	73.5	09 34	62.0	11.5
68.9	68.0	68.1	67.8	68.0	68.2	68.7	67.6	67.3	14 21	73.0	08 29	62.5	10.5
67.8	67.6	68.0	68.0	68.2	68.5	68.8	67.5	67.2	22 05	70.0	09 00	61.6	8.4
68.6	68.0	67.8	67.7	68.3	68.5	68.1	67.7	67.6	12 39	73.7	08 39	62.5	11.2
68.8	67.6	67.7	67.8	67.6	67.6	67.6	67.2	68.0	13 01	76.6	07 53	63.0	13.6
70.5	68.6	68.2	67.5	66.8	67.2	66.5	66.7	67.9	13 31	78.5	08 44	60.6	17.9
69.4	68.4	67.7	67.5	67.4	67.3	66.5	66.5	67.0	13 36	75.9	08 44	59.4	16.5
69.8	68.8	68.6	68.5	67.5	67.5	65.8	66.8	67.3	14 38	74.6	08 10	59.5	15.1
71.5	69.2	67.3	67.1	66.8	66.6	66.9	67.5	67.6	13 59	78.7	08 58	59.3	19.4
74.3	73.9	69.0	64.8	62.5	65.4	66.6	66.6	67.3	15 01	84.8	08 29	55.5	29.3
76.6	75.0	70.6	63.3	66.8	63.6	45.4	49.9	67.5	13 39	94.8	22 06	38.6	56.2
78.4	73.8	70.6	52.3	63.2	54.5	51.4	55.1	63.9	16 25	109.9†	02 07	33.2	76.7
76.9	74.8	66.2	63.3	63.3	53.9	60.3	50.6	66.0	15 01	87.8	23 38	32.8†	55.0
64.6	66.6	66.3	63.4	60.5	65.0	66.4	66.5	63.0	12 42	77.8	00 02	39.2	38.6
67.1	65.2	64.4	65.6	65.7	67.9	65.4	64.3	65.6	12 40	72.6	08 17	58.6	14.0
69.7	66.6	62.8	62.5	63.8	63.5	62.1	63.0	65.9	13 20	76.7	19 00	56.1	20.6
71.1	69.6	67.9	66.5	66.2	65.4	64.4	64.1	66.8	-	77.8	-	56.3	21.5
70.7	69.6	69.0	68.5	68.0	67.7	67.1	66.7	67.3	-	74.5	-	59.9	14.5
72.9	71.8	69.1	62.1	62.9	60.7	56.4	55.9	65.4	-	90.0	-	39.2	50.8
9° + Tabular Quantities													
67.1	66.4	66.5	67.3	66.9	66.5	66.3	65.8	64.8	h m	70.9	h m	56.4	14.5
71.2	69.2	67.5	66.3	67.4	64.6	64.4	64.3	66.4	14 12	75.5	09 22	58.0	17.5
69.5	66.7	66.5	66.7	66.6	66.7	66.4	63.9	65.8	13 03	76.1	07 22	57.9	18.2
68.5	66.2	65.6	65.6	66.8	67.2	66.8	66.2	65.5	13 05	74.2	08 23	56.5	17.7
68.5	66.8	66.5	65.6	67.1	67.5	67.6	67.5	66.2	13 19	75.8	08 57	57.4	18.4
70.3	67.8	65.9	66.6	66.7	65.8	65.7	67.0	66.6	13 22	75.3	09 02	57.4	17.9
70.5	68.5	67.5	63.9	60.9	65.7	64.3	61.3	65.6	14 03	75.1	19 59	56.3	18.8
75.3	71.6	69.2	68.7	67.1	67.5	60.1	57.5	64.8	15 36	77.2	03 19	55.4	21.8
70.5	68.7	68.2	65.2	69.0	67.8	64.4	65.5	65.5	13 51	73.7	00 49	50.3	23.4
75.9	70.3	65.7	66.6	62.5	62.5	64.5	64.8	67.6	14 39	89.9	09 31	47.4	42.5
70.3	68.5	69.2	69.4	67.9	62.2	60.2	61.2	68.0	13 40	76.6	22 52	46.7	29.9
69.4	67.5	66.0	65.8	66.1	66.2	64.4	64.4	65.1	14 48	72.8	09 06	56.2	16.6
70.5	68.7	67.0	66.9	65.7	65.2	65.3	65.4	66.1	14 11	74.8	09 00	57.5	17.3
71.6	69.4	67.6	67.6	67.1	65.4	64.8	63.4	67.2	14 06	76.4	08 53	60.7	15.7
69.2	67.8	66.6	66.1	66.3	66.6	66.5	66.5	65.4	14 15	71.4	01 33	57.2	14.2
67.5	66.1	66.2	66.2	64.7	66.1	66.5	66.4	66.2	13 53	71.6	09 34	59.7	11.9
66.6	66.3	65.6	65.6	66.3	66.2	65.5	65.0	65.7	13 36	73.7	07 57	58.9	14.8
70.6	68.6	67.5	67.5	68.1	67.9	67.5	66.6	66.1	14 12	73.5	08 38	59.3	14.2
70.2	69.2	67.5	67.3	67.8	68.0	65.8	65.2	66.1	14 26	72.5	08 35	59.7	12.8
69.6	68.2	67.1	67.3	67.4	67.3	67.2	67.0	66.0	13 52	72.6	08 08	58.6	14.0
69.9	67.4	65.4	66.4	67.0	66.8	66.7	66.8	66.3	14 36	74.8	07 36	57.5	17.3
69.6	67.5	66.5	66.4	66.5	66.7	66.9	66.9	65.9	14 35	72.9	09 08	58.4	14.5
78.0	76.6	75.9	77.6	70.4	59.0	62.4	63.1	68.7	19 58	90.6†	21 31	46.1†	44.5
71.4	66.2	65.0	65.0	65.4	60.9	63.1	63.7	65.9	14 44	81.7	07 52	52.6	29.1
73.6	69.0	65.4	65.8	63.4	63.9	63.1	64.3	66.3	14 23	78.6	08 20	55.4	23.2
70.8	68.2	66.3	66.5	64.9	63.2	60.5	63.6	65.0	13 37	73.5	22 41	55.9	17.6
71.8	68.5	66.8	67.1	67.0	64.8	61.7	62.5	65.7	13 50	76.8	05 32	58.3	18.5
71.1	69.3	68.0	67.8	64.7	64.4	61.3	59.3	64.5	14 06	73.8	22 59	55.4	18.4
74.4	71.5	64.2	64.2	64.4	65.8	64.7	63.9	65.6	14 17	78.6	05 31	57.5	21.1
71.7	70.3	62.0	63.4	65.5	66.1	65.5	64.7	65.1	14 27	80.5	09 10	57.4	23.1
70.8	68.6	66.8	66.7	66.3	65.5	64.7	64.5	66.0	-	76.0	-	56.1	20.0
69.7	68.1	67.0	66.8	67.4	67.5	67.0	66.6	66.1	-	73.5	-	58.7	14.8
74.0	70.7	67.8	67.7	66.3	63.2	63.8	64.2	66.7	-	82.9	-	50.8	32.1

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
9° + Tabular Quantities																	
1	64.5	65.2	65.1	64.7	67.4	65.7	63.2	60.9	59.5	60.4	62.4	66.0	70.4	71.6	71.7	70.4	
2	64.7	63.4	62.2	61.2	60.1	59.4	59.1	59.2	58.7	60.0	62.5	66.3	70.5	72.4	71.2	69.9	
3	65.7	66.1	65.4	65.0	64.2	62.4	60.7	59.3	59.6	61.1	64.5	69.0	72.4	73.3	72.0	70.5	
4	64.8	65.5	65.5	64.9	64.4	62.8	61.9	60.8	60.8	65.3	68.5	71.6	73.7	74.0	73.5	70.8	
5	66.2	54.7	52.2	56.2	53.3	56.1	57.5	58.7	58.9	61.7	64.2	67.6	72.7	75.9	75.5	72.5	
6 *	65.5	65.2	64.5	63.8	62.9	61.3	60.0	58.5	58.2	59.6	63.0	67.2	71.5	72.6	71.1	69.2	
7	66.1	65.9	65.4	64.8	64.0	62.0	60.5	59.1	57.4	59.4	64.4	68.6	73.4	75.1	73.7	71.5	
8 **	67.7	63.7	64.6	63.5	68.5	69.1	62.8	59.5	62.0	60.3	65.4	68.4	73.7	74.3	75.0	74.3	
9	63.1	64.5	67.3	64.3	62.5	60.4	58.4	57.4	56.4	58.0	61.2	67.5	72.0	74.5	75.5	73.6	
10	65.3	65.7	64.5	65.3	64.3	63.7	61.3	61.7	60.3	63.2	67.6	69.6	73.3	76.3	75.6	73.4	
11	68.0	66.5	65.4	65.4	64.0	61.5	61.2	58.1	57.4	58.7	61.8	67.4	72.1	73.7	73.6	71.9	
12 **	68.7	66.6	63.7	68.1	59.4	59.7	55.5	60.2	56.9	58.7	64.7	67.2	70.5	73.0	73.5	74.2	
13	67.8	67.4	66.4	65.2	64.9	60.7	58.2	58.0	60.2	61.9	64.0	66.1	69.4	71.1	71.2	71.2	
14 *	66.7	66.5	65.9	65.2	63.5	61.5	59.9	58.6	58.0	58.1	60.8	64.2	67.5	69.5	69.3	69.0	
15 **	65.4	66.2	66.4	65.4	63.4	61.4	58.9	57.9	59.4	61.9	65.2	68.4	69.0	71.8	70.1	69.8	
16 **	58.3	59.8	63.0	62.4	66.8	67.2	65.3	65.3	63.5	60.2	61.4	64.6	68.9	69.9	69.1	68.5	
17	62.8	62.6	62.4	62.4	61.5	60.3	59.8	58.3	59.1	63.3	67.0	70.6	71.7	71.2	70.8	69.8	
18	67.7	67.5	68.2	66.0	67.7	61.9	60.4	58.4	59.4	60.4	63.4	66.1	68.5	69.5	68.4	67.2	
19	65.3	65.4	66.7	61.5	60.3	59.2	56.1	54.4	55.4	59.0	65.3	69.5	71.9	71.8	71.5	70.2	
20	66.5	67.4	65.8	64.0	61.7	59.6	57.0	56.5	58.4	61.2	65.5	69.1	71.4	71.1	70.8	70.4	
21	64.2	64.2	63.5	61.2	59.7	61.7	59.3	59.3	59.4	63.0	67.4	71.8	75.5	75.4	73.6	71.5	
22	66.2	66.4	63.0	61.3	60.7	58.4	56.2	58.0	59.4	65.6	69.2	72.1	75.0	76.8	75.5	72.2	
23	62.8	61.8	64.2	65.8	59.8	56.3	56.2	56.3	58.4	61.1	64.4	67.9	71.1	72.7	73.3	72.2	
24 **	65.9	63.0	61.5	61.5	59.3	55.6	51.3	57.2	59.2	61.3	65.2	69.3	73.5	78.8	76.6	77.9	
25 *	58.8	54.2	59.4	61.2	61.4	60.7	63.7	64.6	65.2	64.3	64.8	68.1	70.9	72.0	73.6	73.2	
26	65.4	64.6	63.6	63.3	62.7	61.2	58.9	57.8	57.3	58.4	60.5	62.6	66.3	69.8	71.5	71.7	
27 *	64.2	64.3	63.1	63.9	62.5	61.2	59.5	58.6	59.4	61.1	64.2	67.6	70.7	72.4	72.5	72.3	
28 *	65.3	64.4	64.0	63.5	62.6	61.4	60.4	60.2	60.3	61.4	63.5	67.1	69.9	70.9	70.5	69.4	
29 *	64.8	64.4	63.9	63.7	63.0	61.5	60.4	59.4	59.0	61.2	65.2	68.6	71.3	72.2	71.9	71.6	
30	65.3	64.9	64.6	64.4	63.4	61.5	60.0	59.2	59.2	61.9	66.5	70.1	72.4	73.5	72.2	70.7	
31	66.8	65.4	65.4	66.0	67.3	62.4	61.4	59.4	59.3	61.3	64.4	68.0	71.9	75.6	75.4	72.9	
Mean	65.2	64.3	64.1	63.7	62.8	61.2	59.5	59.1	59.2	61.1	64.5	68.0	71.4	73.0	72.6	71.4	
Mean *	65.3	65.0	64.3	64.0	62.9	61.4	60.0	59.1	59.0	60.3	63.3	66.9	70.2	71.5	71.1	70.3	
Mean **	65.2	63.9	63.8	64.2	63.5	62.6	58.8	60.0	60.2	60.5	64.4	67.6	71.1	73.6	72.9	72.9	
JUNE																	
9° + Tabular Quantities																	
1	61.3	61.1	60.0	59.4	59.2	59.4	58.7	59.8	61.2	62.4	64.9	67.8	70.4	71.5	72.4	71.6	
2	62.4	64.0	63.0	62.5	62.4	59.4	59.0	59.4	60.4	62.4	65.2	68.4	72.3	72.7	72.8	73.6	
3	61.8	62.5	60.3	56.6	57.8	59.8	58.8	60.4	60.4	60.2	64.5	67.7	69.6	72.1	73.5	72.1	
4 **	66.0	66.2	61.6	62.8	62.6	62.3	64.7	63.2	60.2	62.8	64.5	68.2	71.8	72.2	71.7	71.1	
5	60.8	64.7	65.9	67.4	64.2	61.1	59.2	58.4	58.2	60.6	65.4	68.4	70.5	71.7	72.5	72.2	
6	65.6	65.4	65.1	64.4	63.6	62.0	60.1	58.3	59.3	59.5	64.4	68.4	72.6	73.2	72.2	70.8	
7	65.3	64.5	64.4	64.9	65.9	63.6	58.8	57.5	58.4	60.6	64.2	67.6	72.4	73.4	73.2	72.5	
8	65.5	64.6	63.8	63.4	61.8	60.4	59.5	60.4	60.8	62.0	64.2	65.5	68.5	70.5	71.4	71.8	
9	66.5	66.3	65.0	65.5	67.6	65.2	62.0	60.4	58.3	60.5	63.0	68.6	72.0	71.8	73.8	73.6	
10	66.5	65.1	62.3	64.5	67.7	61.6	60.1	58.8	59.4	62.0	63.3	65.4	69.0	70.7	70.9	69.8	
11	65.4	64.4	65.1	64.7	62.5	60.8	59.4	58.9	59.7	60.4	65.0	68.5	70.8	70.5	72.9	70.4	
12 *	65.3	65.3	64.7	64.1	63.0	60.9	59.7	58.5	57.7	58.3	61.4	64.1	67.2	70.0	71.5	71.6	
13 *	65.4	65.0	64.8	64.4	62.7	61.5	59.7	59.0	58.6	58.4	60.0	64.0	68.6	70.5	71.3	71.3	
14	64.6	64.3	64.5	64.4	63.4	59.8	57.8	57.6	58.5	60.5	64.3	67.8	70.6	71.4	71.5	70.0	
15	64.6	65.2	65.2	64.8	63.4	59.9	57.6	58.0	59.3	62.8	63.8	66.8	71.3	72.3	72.4	70.8	
16 *	66.4	65.5	65.3	64.8	63.2	60.7	58.0	57.3	57.5	59.3	62.5	65.4	68.2	69.2	69.0	68.5	
17 *	66.1	64.7	64.2	63.4	62.3	60.1	58.4	58.4	58.4	60.0	63.3	66.3	69.5	70.6	71.6	71.5	
18	64.2	63.5	62.6	61.6	59.9	58.7	57.5	56.1	58.3	62.4	66.1	70.2	73.7	74.0	73.6	72.1	
19	65.4	64.5	64.2	63.4	61.7	59.1	59.4	58.2	60.4	62.6	66.2	69.7	73.7	75.7	76.3	73.5	
20	65.4	66.8	64.4	62.1	60.6	58.4	56.4	56.4	55.9	58.1	61.5	66.5	71.8	74.3	75.5	73.5	
21	64.4	64.3	63.2	63.0	61.3	59.2	57.4	57.3	56.4	58.4	62.4	66.8	70.7	73.2	73.5	72.4	
22	64.5	63.5	64.6	65.0	63.3	61.3	56.3	54.0	56.0	58.3	63.1	68.1	73.1	76.0	76.4	74.9	
23	66.5	65.2	64.6	63.4	61.9	58.5	57.6	57.2	56.7	58.6	62.4	66.4	71.2	74.7	75.5	75.8	
24	62.7	61.2	57.3	56.6	60.6	61.2	59.4	58.7	58.6	59.7	63.2	67.6	71.6	73.5	74.3	73.3	
25 *	61.5	62.5	64.1	64.5	64.3	62.3	60.1	58.2	58.2	59.3	63.6	68.6	72.7	74.6	75.1	74.0	
26	60.0	61.3	61.5	63.5	65.2	61.8	60.5	58.3	57.9	59.9	63.3	66.3	71.6	74.7	75.4	73.8	
27 **	64.9	64.4	63.9	63.4	62.0	60.0	58.2	57.4	58.0	59.7	63.2	68.0	72.6	74.5	78.1	74.8	
28 **	62.5	55.1	53.2	58.1	57.7	54.0	55.7	57.1	58.5	63.3	64.1	65.6	69.1	70.2	70.9	71.9	
29 **	66.7	63.5	64.3	66.4	63.6	61.0	55.5	51.1	51.2	58.3	63.5	66.5	69.3	72.1	70.6	70.3	
30 **	63.6	62.5	59.4	58.7	59.4	58.2	57.5	57.7	55.6	62.2	66.6	70.2	69.9	73.4	74.5	70.9	
Mean	64.4	63.9	63.1	63.1	62.5	60.4	58.8	58.1	58.3	60.5	63.8	67.3	70.9	72.5	73.1	72.1	
Mean *	64.9	64.6	64.6	64.2	63.1	61.1	59.2	58.3	58.1	59.1	62.2	65.7	69.2	71.0	71.7	71.4	
Mean **	64.7	62.3	60.5	61.9	61.1	59.1	58.3	57.3	56.7	61.3	64.4	67.7	70.5	72.5	73.2	71.8	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														
MAY														
69.5	67.9	66.0	65.4	64.4	62.7	64.5	64.5	65.6	14 21	72.6	08 30	59.4	13.2	1
68.5	67.2	66.6	66.9	67.6	68.0	65.4	65.3	64.8	13 27	72.8	08 48	58.3	14.5	2
68.6	67.8	67.5	67.9	67.8	66.5	67.3	66.5	66.3	13 04	74.2	07 29	58.6	15.6	3
69.3	67.6	67.0	67.4	67.9	69.6	67.1	65.7	67.1	14 12	74.8	08 31	59.4	15.4	4
70.1	67.5	66.7	67.2	66.5	66.4	65.9	65.6	64.2	14 24	76.6	01 58	46.3	30.3	5
67.9	66.5	65.4	65.9	66.8	67.2	66.8	66.5	65.3	13 30	73.5	08 11	57.7	15.8	6 *
69.5	67.6	66.8	67.4	67.6	68.0	68.3	67.8	66.4	13 30	75.7	08 40	56.6	19.1	7
72.0	67.8	66.9	66.2	66.1	65.9	65.7	65.5	67.0	14 31	76.6	07 22	56.4	20.2	8 **
71.5	69.2	67.5	67.5	66.2	66.5	67.5	64.9	65.7	14 27	77.5	07 40	54.7	22.8	9
71.0	68.0	66.1	65.4	66.8	66.6	67.2	66.9	67.0	13 57	77.0	07 06	56.4	20.6	10
69.4	64.5	64.3	65.5	65.5	68.0	67.9	71.2	66.0	23 59	76.4	08 03	54.2	22.2	11
79.7	66.5	68.6	68.3	69.1	68.7	72.1	69.6	66.8	16 53	88.0†	09 14	52.6	35.4	12 **
70.2	67.6	65.5	64.7	64.3	63.4	65.4	66.6	65.5	13 23	71.8	06 48	56.8	15.0	13
68.5	67.1	66.2	66.8	66.9	66.9	66.4	65.4	64.9	13 42	69.8	09 01	57.3	12.5	14 *
69.5	65.3	62.0	62.5	59.8	60.6	58.0	56.3	63.9	13 41	75.6	22 51	53.1	22.5	15 **
67.9	66.5	65.4	65.3	65.3	65.3	63.3	61.5	64.8	04 41	72.6	01 03	53.9	18.7	16 **
66.5	64.6	65.3	66.6	67.6	67.5	67.5	68.0	65.3	12 05	74.1	07 10	56.3	17.8	17
66.5	62.6	61.6	64.9	65.5	68.0	63.1	64.5	64.9	21 55	73.5	07 21	56.4	17.1	18
67.6	65.6	64.6	64.7	66.0	65.4	63.3	63.9	64.4	12 32	72.7	07 06	53.4	19.3	19
70.1	68.7	67.6	66.0	60.5	63.9	66.0	64.8	65.2	14 28	71.7	06 59	55.4	16.3	20
70.8	68.8	66.8	65.4	64.4	62.0	65.0	65.7	65.8	12 54	76.0	07 01	57.4	18.6	21
69.5	68.5	67.2	66.1	67.4	67.5	66.0	64.8	66.4	13 32	77.6	06 39	55.2	22.4	22
70.6	68.3	66.6	66.7	66.4	65.9	65.6	66.6	65.0	14 01	73.9	07 37	54.4	19.5	23
74.0	69.8	68.3	68.2	69.2	55.7	54.1	53.3	64.6	13 35	79.8	21 50	45.9†	33.9	24 **
71.2	68.7	67.5	66.0	64.8	64.8	64.6	64.5	65.3	14 43	73.8	01 01	50.3	23.5	25
70.5	69.2	67.5	67.2	65.8	64.9	65.6	65.1	64.6	15 04	72.4	08 33	56.7	15.7	26
71.3	69.8	69.0	68.6	66.9	66.2	66.2	65.8	65.9	14 50	72.8	07 01	57.6	15.2	27 *
68.2	67.4	67.2	67.8	67.8	67.7	66.9	66.3	65.6	13 28	71.3	08 05	59.7	11.6	28 *
70.4	68.6	68.1	67.6	67.7	67.6	67.2	66.2	66.1	13 54	72.2	08 12	58.5	13.7	29 *
69.3	68.5	67.9	68.2	67.9	67.5	67.3	67.0	66.4	13 39	73.7	08 01	58.5	15.2	30
71.4	69.6	67.0	64.8	66.8	66.9	67.6	64.7	66.7	13 50	76.8	07 46	57.1	19.7	31
70.0	67.5	66.5	66.4	66.2	65.9	65.6	65.2	65.6	-	74.8	-	55.6	19.1	Mean
69.3	67.9	67.2	67.3	67.2	67.1	66.7	66.0	65.6	-	71.9	-	58.2	13.8	Mean *
72.6	67.2	66.2	66.1	65.9	63.2	62.6	61.2	65.4	-	78.5	-	52.4	26.1	Mean **
9° + Tabular Quantities														
JUNE														
70.8	69.8	69.2	68.4	67.5	66.4	64.4	63.1	65.0	14 22	72.7	06 25	57.4	15.3	1
70.3	70.2	68.4	67.4	66.9	66.5	67.0	63.5	65.8	12 49	74.9	06 09	57.4	17.5	2
70.9	67.9	67.3	67.2	68.5	67.4	66.9	66.5	65.0	14 54	74.4	03 16	55.3	19.1	3
70.9	70.2	68.6	67.4	66.8	59.7	65.2	61.2	65.9	12 38	72.7	23 59	54.7	18.0	4 **
70.8	68.8	67.3	66.2	64.4	64.3	65.6	65.1	65.6	13 55	73.5	00 00	54.8	18.7	5
70.0	68.5	65.7	64.4	66.0	66.7	65.5	63.5	65.6	13 10	73.7	07 53	57.2	16.5	6
70.9	69.5	67.8	67.4	66.4	66.7	66.2	66.0	66.2	12 50	74.0	07 33	56.4	17.6	7
70.6	68.6	67.6	66.6	66.5	62.8	65.4	66.5	65.4	14 51	72.4	05 53	58.4	14.0	8
72.5	69.6	68.6	67.5	65.5	66.2	66.8	65.5	66.8	14 22	74.7	08 13	57.4	17.3	9
69.2	68.5	67.1	66.1	65.3	65.3	65.1	65.5	65.4	13 26	71.6	07 44	57.4	14.2	10
68.6	68.8	67.6	66.7	67.4	66.6	66.4	65.6	65.7	14 51	74.9	09 13	58.4	16.5	11
71.5	70.1	68.1	66.6	66.2	66.5	66.5	66.0	65.2	14 41	72.0	09 09	56.9	15.1	12 *
70.3	68.5	66.8	67.0	66.4	66.2	65.6	65.0	65.0	14 26	71.6	09 30	57.9	13.7	13 *
69.0	68.2	67.8	67.5	67.6	67.1	63.8	65.4	65.3	14 15	72.2	07 01	56.5	15.7	14
69.0	67.6	67.0	66.5	66.6	66.9	66.6	66.2	65.6	14 09	73.0	06 10	55.7	17.3	15
68.5	67.5	66.6	66.7	66.9	66.8	65.9	66.5	64.8	14 02	79.5	06 36	56.4	23.1	16 *
70.3	69.1	69.2	69.4	68.5	68.4	65.0	64.6	65.6	14 52	72.2	07 00	57.6	14.6	17 **
71.2	69.5	67.1	65.7	66.1	64.7	65.4	65.6	65.4	13 13	75.6	07 22	55.5	20.1	18
70.8	69.4	68.1	67.2	66.4	65.5	65.4	65.4	66.3	14 38	76.6	07 19	56.5	20.1	19
70.5	69.2	68.5	66.7	66.5	66.8	66.2	63.2	65.2	14 23	75.9	08 05	55.2	20.7	20
71.0	70.1	68.1	65.5	63.6	64.0	65.1	64.6	64.8	14 29	74.1	08 21	55.6	18.5	21
72.4	71.1	70.5	69.4	68.5	67.6	66.0	65.7	66.2	14 15	76.8	07 40	52.9	23.9	22
74.6	70.3	68.5	67.4	66.4	63.6	62.9	63.2	65.5	15 47	76.7	06 04	56.1	20.6	23
71.1	68.1	63.8	64.5	64.1	63.6	64.3	62.0	64.2	14 39	74.6	03 00	51.9	22.7	24
71.9	70.0	68.9	68.0	67.3	66.4	65.4	60.7	65.9	13 52	75.5	09 21	57.1	18.4	25 *
69.5	67.8	66.7	67.4	67.0	66.7	66.5	65.6	65.5	14 09	76.6	07 56	56.5	20.1	26
74.6	73.0	68.0	67.9	68.6	64.2	65.7	64.0	66.2	14 27	80.3†	06 59	56.1	24.2	27 **
72.0	70.7	67.8	69.1	66.4	65.8	67.5	67.6	63.9	16 07	73.1	01 53	50.6	22.5	28 **
67.6	68.2	68.1	67.5	66.6	60.1	66.0	64.4	64.3	13 43	73.9	07 34	44.4†	29.5	29 **
68.5	66.5	65.7	65.0	65.2	64.7	63.4	63.5	64.3	14 52	76.0	08 13	53.4	22.6	30 **
70.7	69.2	67.7	67.0	66.5	65.5	66.0	64.7	65.4	-	74.5	-	55.6	18.9	Mean
70.5	69.0	67.9	67.5	67.1	66.9	65.7	64.6	65.3	-	74.2	-	57.2	17.0	Mean *
70.7	69.7	67.6	67.4	66.7	62.9	65.6	64.1	64.9	-	75.2	-	51.8	23.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
	9° + Tabular Quantities																
1 *	64.2	63.5	63.9	63.3	61.4	58.8	57.1	56.0	56.3	58.5	62.0	64.2	66.2	68.9	70.5	69.6	
2	61.8	62.2	60.2	61.3	67.2	66.6	61.1	58.9	58.5	58.8	61.6	65.6	68.5	71.0	72.2	71.4	
3 *	64.1	63.4	62.4	60.7	61.5	60.0	58.1	56.4	56.7	59.4	63.1	67.5	71.4	73.6	74.6	73.4	
4	65.3	64.8	64.4	63.6	62.4	60.5	59.2	58.1	57.9	59.4	65.8	70.6	73.2	73.5	73.2	71.5	
5	61.8	62.5	63.3	64.4	65.5	63.3	60.4	61.0	59.2	60.5	63.3	66.0	70.0	72.4	72.3	70.6	
6	65.6	65.4	65.7	64.5	62.9	60.6	58.4	58.6	58.9	61.7	65.5	68.6	71.8	73.1	73.2	72.2	
7	64.3	63.6	64.2	67.6	62.2	60.4	58.6	58.6	59.7	62.8	63.8	66.1	67.8	69.7	71.4	71.5	
8	64.7	64.4	65.0	67.1	63.6	61.4	60.2	59.4	62.4	63.7	65.6	66.1	67.1	69.8	71.4	70.2	
9	65.0	64.8	64.5	65.4	67.2	64.7	64.3	63.6	61.4	61.4	62.7	65.1	68.4	70.9	72.7	72.5	
10	64.5	62.4	65.7	67.5	69.6	62.7	61.5	60.9	58.4	57.7	59.2	62.4	66.0	69.1	70.4	71.2	
11	65.3	67.8	64.7	60.7	62.8	62.5	62.8	58.9	58.0	59.4	62.2	65.7	70.3	72.8	74.1	73.4	
12	66.8	59.4	59.9	59.3	57.3	56.0	55.7	55.5	56.6	58.6	60.8	63.2	65.7	69.6	70.5	71.8	
13 *	62.7	62.7	62.0	62.2	62.0	61.3	60.4	59.7	59.0	58.8	60.2	62.2	65.7	69.2	70.9	70.1	
14	63.6	64.4	65.2	65.6	66.7	62.5	58.8	59.2	60.6	62.2	63.5	66.9	70.9	74.0	72.7	72.7	
15 **	65.7	61.9	59.9	64.1	55.5	55.5	55.8	56.1	56.9	41.2	44.2	60.4	64.1	71.1	81.2	75.1	
16 **	54.6	54.4	57.4	59.4	58.5	56.0	54.6	54.5	54.3	55.6	58.4	62.5	66.7	70.4	70.6	68.5	
17 **	66.5	63.8	62.3	61.7	64.2	61.6	59.2	57.4	55.3	57.4	62.9	67.2	69.1	70.7	70.7	69.4	
18 **	62.2	66.3	60.6	65.4	59.6	67.0	62.1	59.6	56.3	63.7	65.0	66.0	67.1	69.2	70.2	71.2	
19	67.7	61.7	59.6	59.0	59.2	57.3	56.2	54.5	55.7	58.3	62.2	65.3	68.5	70.6	71.1	69.6	
20	64.2	63.5	63.1	62.9	61.4	58.6	57.3	56.4	55.9	59.6	61.8	67.4	70.3	71.4	72.1	71.6	
21	57.8	59.5	60.9	63.3	62.0	60.3	57.3	56.1	55.5	57.6	61.5	66.0	69.2	73.2	73.6	70.6	
22	65.2	65.5	62.8	62.0	60.0	59.5	59.0	58.7	59.4	61.6	65.5	68.1	71.5	74.7	76.0	72.8	
23	63.9	62.9	61.0	61.0	61.5	62.8	60.8	57.5	55.3	56.0	60.1	64.1	69.9	71.8	73.0	72.5	
24	63.7	60.4	61.3	61.5	61.0	58.7	58.0	56.8	55.6	55.3	60.6	64.6	65.4	68.7	70.3	71.1	
25 **	61.5	64.4	62.8	58.8	59.8	61.8	58.8	57.3	57.0	61.3	62.2	65.6	70.4	73.4	73.6	70.3	
26	62.6	61.2	62.5	64.5	61.1	58.5	56.8	56.2	59.1	61.4	64.6	68.1	68.8	70.7	71.1	71.5	
27	63.7	65.3	69.5	64.1	60.3	60.5	59.4	57.8	57.5	59.2	60.8	65.9	70.8	71.9	71.7	70.3	
28	66.5	67.9	64.3	62.3	59.6	57.2	55.3	55.9	55.8	57.4	61.4	66.3	69.2	71.3	71.5	69.6	
29 *	64.1	65.3	65.0	65.9	63.4	58.0	58.3	57.3	57.4	59.7	64.1	67.2	70.1	72.5	72.5	70.7	
30 *	63.6	62.8	63.6	63.0	61.5	59.3	57.7	56.7	56.0	56.6	60.6	65.3	68.2	69.3	69.5	68.5	
31	65.1	65.2	65.6	64.1	68.2	63.5	61.6	59.1	59.6	62.2	66.1	69.3	73.7	75.4	73.3	71.1	
Mean	63.8	63.3	63.0	63.1	62.2	60.6	58.9	57.8	57.6	58.9	62.0	65.8	68.9	71.4	72.3	71.2	
Mean *	63.7	63.5	63.4	63.0	62.0	59.5	58.3	57.2	57.1	58.6	62.0	65.3	68.3	70.7	71.6	70.5	
Mean **	63.1	62.2	60.6	61.9	59.5	60.4	58.1	57.0	56.0	55.8	58.5	64.3	67.5	71.0	73.3	70.9	
AUGUST																	
	9° + Tabular Quantities																
1	64.6	62.2	62.4	66.2	66.0	62.5	60.2	62.4	62.5	60.4	62.4	67.2	70.0	71.9	71.8	71.8	
2	60.4	59.0	62.2	59.4	60.9	61.4	61.0	61.6	60.7	59.1	62.3	65.7	68.5	70.3	70.4	69.1	
3	64.4	64.5	64.2	60.7	57.7	56.8	56.6	57.8	59.0	58.4	61.0	63.4	66.9	69.3	70.8	69.9	
4	64.3	64.5	64.2	62.3	60.5	58.4	58.4	56.8	57.0	59.0	63.5	67.0	70.3	72.1	71.3	69.0	
5	64.3	64.2	64.5	63.8	62.7	61.3	60.3	58.2	58.0	61.0	64.6	68.5	70.9	71.5	69.8	68.5	
6	64.4	64.6	64.0	64.3	65.5	60.4	57.4	57.0	58.5	61.5	63.4	70.0	72.8	73.9	72.7	71.0	
7	60.8	62.0	63.3	65.7	63.7	59.4	60.0	59.1	57.5	59.6	63.5	67.4	70.6	74.3	75.6	74.3	
8	63.4	64.0	63.5	63.3	61.8	59.6	59.8	59.9	60.8	62.3	65.3	68.1	70.8	72.4	74.3	72.5	
9	59.6	61.5	62.9	61.0	60.7	58.9	56.7	56.2	59.0	61.1	65.5	69.5	73.1	75.5	76.7	73.5	
10	64.7	64.5	65.2	66.0	60.3	58.6	56.8	56.5	57.4	59.8	62.2	66.2	69.4	71.5	71.8	70.2	
11	65.2	62.4	63.0	64.0	59.5	59.1	58.5	58.3	58.1	59.5	63.0	66.8	70.1	70.1	69.9	69.4	
12 *	63.3	63.4	62.4	62.5	61.7	60.3	57.5	57.0	57.7	59.0	61.5	64.4	68.1	69.9	71.5	71.7	
13 *	62.0	62.3	62.4	61.8	62.1	60.3	58.3	57.2	57.5	58.5	61.2	65.0	69.0	70.5	71.0	68.9	
14 *	64.0	63.2	62.3	61.1	60.0	58.5	58.0	57.0	57.5	59.1	63.1	65.7	68.7	71.6	72.6	71.5	
15	63.2	62.5	63.5	61.0	60.0	59.0	57.7	57.5	57.3	59.9	63.2	68.1	72.6	74.9	75.1	72.7	
16 **	55.7	55.6	60.2	59.5	56.8	52.1	52.7	62.3	64.3	65.0	69.7	72.6	80.1	79.3	74.4	79.3	
17 **	57.0	43.0	46.2	58.2	61.4	70.7	63.6	63.7	61.0	60.5	65.5	68.3	70.1	68.9	68.7	68.2	
18	63.0	62.7	63.2	64.0	61.5	59.2	56.3	58.0	60.3	59.3	62.5	66.8	70.8	76.1	75.8	74.1	
19	62.8	62.4	63.0	58.0	63.3	55.9	57.0	58.6	57.2	59.6	62.1	65.5	69.6	72.8	72.4	71.9	
20 **	63.5	61.5	60.2	59.9	59.4	56.6	54.9	55.6	56.0	58.6	61.5	67.4	71.8	75.3	76.2	73.8	
21 **	60.4	58.2	61.8	62.4	60.7	57.1	56.7	56.4	56.0	57.5	61.6	66.5	70.3	73.7	73.6	71.7	
22	65.4	63.3	64.2	63.7	62.2	61.2	62.4	62.4	58.6	58.4	60.6	64.4	69.5	73.3	73.2	71.9	
23 **	64.4	64.7	63.2	60.7	61.2	61.4	57.4	56.5	55.6	56.3	60.4	65.4	71.5	75.2	74.2	73.3	
24	63.9	61.4	64.4	63.1	60.3	61.6	58.2	56.0	55.8	57.4	60.0	65.3	69.5	70.5	71.4	68.5	
25	62.2	64.6	62.5	62.0	61.7	61.4	59.4	56.4	56.4	59.1	63.4	67.5	71.3	72.5	73.6	71.1	
26	64.5	63.1	62.4	61.3	60.5	59.4	58.4	56.7	59.0	61.4	65.3	68.1	70.2	71.5	71.6	69.2	
27 *	66.4	65.2	62.3	61.3	60.7	59.3	58.1	56.4	56.4	59.2	63.2	67.8	71.5	72.1	70.5	68.2	
28 *	63.6	63.3	62.5	62.4	61.2	59.6	58.4	57.1	56.4	59.0	63.4	67.9	71.4	71.8	70.8	67.7	
29	63.2	62.3	60.8	62.0	62.3	62.0	61.2	59.7	58.5	60.2	64.2	64.9	67.3	69.4	64.6	62.2	
30	68.5	64.3	64.4	64.4	65.4	64.5	61.9	58.6	59.4	59.3	62.0	65.7	69.1	70.4	68.6	66.0	
31	64.4	64.0	64.5	63.7	61.3	59.4	57.3	55.9	56.7	60.1	64.7	67.6	69.6	71.2	70.4	68.5	
Mean	63.1	62.1	62.4	62.2	61.4	59.9	58.4	58.2	58.3	59.6	63.1	66.9	70.5	72.4	72.1	70.6	
Mean *	63.9	63.5	62.4	61.8	61.1	59.6	58.1	56.9	57.1	59.0	62.5	66.2	69.7	71.2	71.3	69.6	
Mean **	60.2	56.6	58.3	60.1	59.9	59.6	57.1	58.9	58.6	59.6	63.7	68.0	72.8	74.5	73.4	73.3	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
9° + Tabular Quantities															
										h m	h m		JULY		
68.6	66.9	65.8	65.7	65.7	65.8	65.2	63.1	63.8	63.8	14 17	70.6	07 41	55.4	15.2	1 *
69.5	68.2	67.0	66.2	66.1	65.7	65.4	64.5	65.0	65.0	14 22	72.6	02 57	57.3	15.3	2
71.3	69.3	68.0	67.5	66.7	66.3	66.1	65.6	65.3	65.3	14 49	75.1	07 13	55.7	19.4	3 *
69.2	69.1	69.7	66.7	66.6	65.4	66.9	64.0	65.9	65.9	12 55	73.9	08 06	57.4	16.5	4
68.5	66.1	64.3	63.4	63.5	66.3	66.2	66.3	65.0	65.0	13 36	73.6	08 25	56.9	16.7	5
70.1	67.9	66.6	65.7	65.5	66.3	64.8	63.2	65.7	65.7	14 33	73.8	06 57	57.6	16.2	6
70.1	69.2	67.3	66.6	66.9	66.2	65.5	65.0	65.4	65.4	15 07	72.6	07 07	57.6	15.0	7
70.0	68.5	65.9	65.3	65.6	65.3	65.7	65.2	65.6	65.6	14 36	72.3	07 31	58.4	13.9	8
71.1	67.8	66.7	65.7	63.6	62.8	65.2	66.2	66.0	66.0	14 54	73.6	21 01	59.9	13.7	9
70.8	69.0	66.9	65.6	65.2	64.7	65.2	64.3	65.0	65.0	04 31	72.3	09 46	56.7	15.6	10
73.6	76.7	75.2	74.7	74.6	73.1	72.8	71.2	68.1	68.1	17 14	79.5	08 39	57.3	22.2	11
72.3	69.6	68.1	67.5	67.0	66.1	65.5	64.5	63.6	63.6	16 08	73.4	07 47	54.5	18.9	12
68.6	68.5	67.6	66.2	65.3	64.4	63.4	63.4	64.0	64.0	14 50	71.9	08 32	57.9	14.0	13 *
72.2	70.2	67.4	66.4	67.2	66.8	65.8	64.9	66.3	66.3	13 58	75.4	06 57	56.4	19.0	14
98.6	99.3	87.6	77.6	72.7	63.0	63.7	57.5	66.2	66.2	16 43	144.8†	09 14	18.2†	126.6	15 **
68.8	66.5	64.6	64.0	65.1	65.4	67.9	67.4	61.9	61.9	13 57	71.6	00 52	47.9	23.7	16 **
66.4	66.3	72.7	72.7	74.7	55.8	70.2	60.3	64.9	64.9	22 56	81.2	21 28	35.2	46.0	17 **
71.7	69.2	63.3	62.2	62.5	67.1	63.7	60.2	64.9	64.9	01 27	83.8	02 04	47.3	36.5	18 **
66.3	65.1	64.5	64.2	64.4	64.7	65.5	64.7	63.0	63.0	14 08	71.8	07 15	52.3	19.5	19
71.2	69.1	66.8	66.7	66.2	65.6	63.4	61.1	64.5	64.5	14 31	72.6	08 19	54.6	18.0	20
69.6	69.5	67.6	65.8	62.0	62.6	64.4	64.4	63.8	63.8	14 12	74.6	08 02	54.3	20.3	21
69.6	67.8	66.4	65.4	65.4	64.7	59.7	61.5	65.1	65.1	14 26	76.5	07 21	56.5	20.0	22
71.8	69.8	67.2	66.1	64.0	62.2	64.2	63.7	64.3	64.3	14 32	73.5	09 07	53.7	19.8	23
70.8	70.6	67.0	65.1	62.5	60.8	60.7	57.7	62.8	62.8	17 02	72.1	09 34	52.9	19.2	24
68.7	69.1	65.7	61.1	63.5	64.3	64.6	61.2	64.1	64.1	14 20	75.9	07 22	54.4	21.5	25 **
68.4	67.4	67.1	64.0	62.0	62.3	63.0	65.5	64.1	64.1	13 51	73.3	07 25	54.0	19.3	26
67.7	66.9	65.0	65.8	65.8	64.5	64.6	64.5	64.7	64.7	13 18	73.4	08 21	54.9	18.5	27
67.4	66.0	63.2	63.7	64.6	64.7	63.2	63.6	63.7	63.7	13 59	73.1	05 57	53.8	19.3	28
68.5	66.9	65.8	64.7	64.7	65.2	64.4	64.0	64.8	64.8	13 52	73.4	08 01	55.6	17.8	29 *
66.9	65.7	65.1	65.1	65.4	65.7	65.4	64.9	63.6	63.6	13 48	69.6	08 33	55.4	14.2	30 *
68.5	66.6	64.6	65.3	65.4	65.1	61.4	62.2	65.9	65.9	13 23	76.5	07 37	58.5	18.0	31
70.5	69.3	67.4	66.2	65.8	64.8	65.0	63.7	64.7	64.7	-	76.4	-	53.5	22.9	Mean
68.8	67.5	66.5	65.8	65.6	65.5	64.9	64.2	64.3	64.3	-	72.1	-	56.0	16.1	Mean *
74.8	74.1	70.8	67.5	67.7	63.1	66.0	61.3	64.4	64.4	-	91.5	-	40.6	50.9	Mean **

9° + Tabular Quantities															
										h m	h m		AUGUST		
70.5	67.7	63.2	66.1	67.0	66.7	65.7	64.4	65.7	65.7	16 03	72.9	09 19	58.9	14.0	1
67.3	66.0	65.0	62.7	65.2	65.7	65.4	65.6	64.0	64.0	14 08	71.4	00 58	56.1	15.3	2
68.3	65.8	63.5	63.7	63.7	63.7	64.7	64.4	63.3	63.3	15 04	71.6	06 05	54.8	16.8	3
67.8	64.7	62.3	63.0	64.0	62.4	59.5	63.7	63.6	63.6	14 08	72.7	08 07	55.4	17.3	4
65.8	64.3	62.1	63.6	64.5	63.8	63.5	64.3	64.3	64.3	13 13	72.6	07 48	57.4	15.2	5
68.8	66.4	63.9	62.6	61.2	64.3	65.1	66.0	65.0	65.0	14 12	74.6	07 14	56.4	18.2	6
68.5	66.5	65.8	63.8	61.8	65.0	65.5	64.8	64.9	64.9	14 32	75.8	08 20	56.7	19.1	7
69.2	66.6	65.1	65.6	65.4	65.2	64.0	59.7	65.1	65.1	14 34	75.0	05 58	58.4	16.6	8
71.1	69.3	65.6	62.2	62.8	65.0	65.6	65.0	64.9	64.9	14 47	77.4	07 05	55.1	22.3	9
67.9	66.1	65.0	64.0	64.7	66.0	64.9	63.7	64.3	64.3	13 38	72.7	08 14	55.6	17.1	10
65.0	65.2	65.7	66.0	66.0	65.5	64.2	63.7	64.1	64.1	12 20	70.5	07 38	57.6	12.9	11
70.5	68.3	66.6	65.5	64.3	64.7	63.6	63.5	64.1	64.1	14 56	72.2	07 12	55.9	16.3	12 *
66.9	66.5	66.3	66.5	66.3	66.1	65.4	64.7	64.0	64.0	14 16	71.4	07 55	56.4	15.0	13 *
68.6	66.3	65.7	66.0	65.7	65.2	64.5	64.4	64.2	64.2	13 59	73.6	07 12	55.7	17.9	14 *
70.5	69.4	68.9	68.8	68.1	66.2	60.5	61.3	65.1	65.1	14 47	77.5	22 38	55.7	21.8	15
67.0	61.4	64.5	60.0	61.0	57.6	60.1	52.2	63.5	63.5	16 03	86.6†	21 47	37.1	49.5	16 **
67.1	59.0	64.2	65.3	60.2	64.9	60.8	62.7	62.5	62.5	03 28	79.8	02 17	35.7†	44.1	17 **
70.2	67.6	60.4	63.2	63.6	63.3	65.0	65.1	64.7	64.7	13 58	77.6	06 58	53.3	24.3	18
69.4	67.8	65.7	61.5	62.6	64.5	64.5	63.7	63.8	63.8	13 45	73.6	05 45	53.9	19.7	19
70.9	68.5	66.3	66.5	65.3	64.5	63.3	63.8	64.2	64.2	14 24	77.6	07 31	47.7	29.9	20 **
69.5	67.1	61.9	62.6	61.5	62.4	61.3	63.4	63.1	63.1	13 48	75.6	08 33	52.4	23.2	21 **
71.2	68.5	66.3	65.2	60.1	60.7	58.4	62.0	64.5	64.5	14 06	74.8	20 45	53.3	21.5	22
71.2	64.4	62.8	63.2	63.2	64.1	61.1	63.5	64.0	64.0	13 20	77.4	09 07	54.1	23.3	23 **
65.4	65.0	65.2	65.4	64.8	62.1	62.3	63.2	63.4	63.4	14 41	71.6	07 06	53.4	18.2	24
66.2	65.3	64.6	64.6	64.5	64.7	63.2	61.6	64.2	64.2	14 38	74.6	07 40	54.6	20.0	25
66.5	64.8	64.4	64.4	63.2	64.2	64.2	64.6	64.1	64.1	14 11	72.6	07 40	56.0	16.6	26
65.7	64.2	64.4	65.2	65.0	64.6	64.6	64.2	64.0	64.0	13 15	72.6	07 53	55.4	17.2	27 *
65.4	64.4	65.2	66.2	65.8	65.4	65.2	64.4	64.1	64.1	13 58	72.3	08 36	55.8	16.5	28 *
63.7	60.6	61.1	61.2	61.6	65.6	66.5	69.5	63.1	63.1	13 21	70.0	08 38	58.0	12.0	29
62.6	60.7	62.2	63.6	64.9	65.5	65.2	64.5	64.2	64.2	00 05	71.9	07 41	58.0	13.9	30
65.3	63.4	62.6	62.4	60.0	61.8	61.4	61.4	63.2	63.2	13 12	71.6	07 34	55.5	16.1	31
67.9	65.5	64.4	64.2	63.8	64.2	63.5	63.5	64.1	64.1	-	74.3	-	54.2	20.1	Mean
67.4	65.9	65.7	65.9	65.4	65.2	64.7	64.2	64.1	64.1	-	72.4	-	55.8	16.6	Mean *
69.1	64.1	63.9	63.5	62.2	62.7	61.3	61.1	63.5	63.5	-	79.4	-	45.4	34.0	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
9° + Tabular Quantities																	
SEPTEMBER																	
1	62.5	62.3	60.4	60.7	62.1	61.8	60.3	59.8	58.3	61.7	64.8	67.1	70.8	72.2	70.8	69.3	
2	64.7	62.6	58.1	57.0	61.8	60.7	56.5	58.8	59.1	64.3	65.1	66.7	68.5	69.9	69.4	68.1	
3	64.4	63.1	62.2	61.4	62.7	59.5	57.1	55.4	57.0	61.5	65.4	68.9	70.4	71.2	71.1	68.9	
4 **	55.8	56.4	53.6	62.2	63.5	63.4	64.6	65.0	60.6	70.1	67.9	71.8	73.4	72.8	76.9	73.2	
5	59.4	59.6	63.9	59.2	59.0	58.3	57.5	58.2	58.0	61.0	63.6	67.1	71.0	72.4	71.6	68.6	
6	59.6	58.2	61.3	60.0	59.6	59.0	57.9	56.6	56.7	59.5	63.6	68.9	72.1	72.9	70.6	68.1	
7 *	62.8	63.3	62.2	61.5	60.8	59.4	57.4	55.3	55.0	58.1	62.7	67.4	69.5	69.7	69.8	68.5	
8 *	62.7	61.8	62.2	62.3	61.8	60.7	58.4	57.5	57.4	61.2	65.3	69.1	71.5	72.7	72.4	70.7	
9 *	62.2	61.8	61.5	60.4	60.5	59.6	58.6	57.7	58.8	60.4	63.7	67.5	69.7	70.8	69.5	68.1	
10 *	61.7	62.0	61.5	60.8	60.8	60.5	60.3	58.4	57.3	59.1	62.5	66.1	68.6	70.7	69.3	67.4	
11	61.2	61.5	61.0	60.4	60.2	58.6	57.7	58.4	58.7	61.3	64.5	68.7	71.2	72.5	70.3	68.7	
12	55.4	55.3	57.1	61.2	60.1	59.1	58.2	58.9	59.4	61.4	64.2	67.6	69.5	70.4	69.5	67.6	
13	64.7	62.1	61.3	59.8	60.0	60.2	59.7	59.7	60.5	63.0	65.3	66.8	68.3	69.3	69.3	67.6	
14	61.4	62.1	60.2	59.4	56.4	57.5	58.5	58.2	59.4	60.0	64.3	69.7	70.5	73.4	72.1	69.8	
15	62.4	61.8	60.8	60.8	60.7	59.7	57.8	57.0	58.7	61.1	65.3	69.3	69.6	71.1	69.4	67.7	
16	63.3	60.8	52.2	53.2	60.1	60.1	59.4	58.0	58.5	61.3	64.6	68.6	70.9	70.5	71.4	68.2	
17	62.4	62.0	61.7	61.1	60.8	60.2	61.0	60.7	59.3	60.4	63.2	68.1	67.6	68.1	71.6	68.9	
18	64.5	62.4	60.0	59.2	59.6	60.8	59.7	59.5	58.3	60.0	65.7	68.9	71.9	72.6	72.4	67.7	
19	53.0	53.1	55.2	58.0	59.6	57.7	57.6	57.3	56.2	57.7	61.5	68.1	68.3	70.2	69.8	68.3	
20 **	62.6	63.7	67.5	63.6	67.1	70.9	70.5	64.7	65.5	64.5	68.8	73.4	75.0	75.8	72.6	70.6	
21 **	55.3	60.2	62.2	61.3	55.7	65.1	77.2	68.1	55.9	56.5	60.5	66.3	69.6	72.8	73.4	72.8	
22 **	64.6	67.1	74.6	62.9	58.9	56.8	58.1	59.0	59.2	60.7	64.3	67.1	68.2	71.2	69.7	67.9	
23	63.8	62.9	62.1	62.5	63.3	63.7	62.9	61.8	63.0	63.6	64.5	66.3	68.6	68.6	69.2	68.6	
24	56.8	59.7	60.3	59.6	60.3	63.9	62.5	59.7	59.2	59.5	60.8	64.7	70.4	71.8	70.5	69.2	
25 **	56.8	57.4	59.1	64.1	63.4	62.3	63.4	64.4	63.1	62.7	67.1	68.5	68.6	70.8	69.4	68.0	
26	61.6	62.0	59.2	58.6	59.2	60.3	60.4	60.4	61.2	63.1	63.6	66.2	67.1	67.0	66.9	66.6	
27	55.9	57.3	58.5	61.0	61.6	62.8	64.5	63.0	62.0	61.4	64.5	67.9	69.2	69.4	68.8	67.8	
28	62.2	62.2	57.5	60.0	58.8	60.3	63.6	62.5	61.3	62.4	63.9	64.1	66.4	64.9	65.3	63.4	
29 *	58.0	60.6	61.7	61.4	61.2	61.2	60.6	59.7	59.5	62.4	65.1	67.2	69.0	68.9	68.5	66.5	
30	63.2	62.6	61.5	61.4	61.2	61.2	61.3	61.0	60.2	61.3	66.3	67.9	69.9	70.8	70.5	69.0	
Mean	60.8	60.9	60.7	60.5	60.7	60.8	60.8	59.8	59.2	61.4	64.4	67.9	69.8	70.8	70.4	68.5	
Mean *	61.5	61.9	61.8	61.3	61.0	60.3	59.1	57.7	57.6	60.2	63.9	67.5	69.7	70.6	69.9	68.2	
Mean **	59.0	61.0	63.4	62.8	61.7	63.7	66.8	64.2	60.9	62.9	65.7	69.4	71.0	72.7	72.4	70.5	
OCTOBER																	
9° + Tabular Quantities																	
1 **	64.6	58.1	56.1	55.3	57.2	62.1	63.1	63.1	66.3	64.5	67.2	71.6	70.4	70.6	70.8	67.6	
2	61.5	61.2	60.6	60.3	65.2	63.7	61.4	63.2	59.6	60.5	63.1	67.6	68.1	69.2	68.6	67.4	
3 **	62.4	62.0	62.2	61.5	61.0	60.3	61.2	61.0	59.4	60.2	62.4	67.1	70.4	70.4	70.2	70.1	
4 **	50.1	50.4	46.2	48.5	55.2	55.2	57.8	58.7	59.6	62.3	63.7	67.0	70.4	67.4	68.6	68.5	
5	59.2	62.7	64.1	52.3	57.4	58.4	59.3	59.4	60.0	61.9	65.5	70.4	72.1	73.6	73.6	72.2	
6 **	54.2	57.7	57.3	59.8	59.0	64.0	67.1	69.9	65.5	64.1	65.4	67.6	67.3	65.2	69.3	67.2	
7	62.8	66.1	63.6	63.8	63.8	61.1	61.3	60.3	60.2	60.4	62.7	64.5	67.9	68.7	69.7	68.4	
8	61.5	62.2	63.2	62.8	62.7	62.1	61.8	60.8	59.3	59.2	60.3	63.7	66.1	67.8	69.2	67.8	
9	62.9	64.1	61.8	62.9	62.4	62.3	61.5	61.4	60.7	59.9	61.2	63.4	66.1	67.5	68.6	68.1	
10 *	61.5	60.7	60.8	61.5	61.8	62.2	61.5	61.2	59.6	59.1	60.5	63.2	66.2	68.2	68.7	68.3	
11 *	61.3	61.4	61.8	61.8	61.9	62.1	62.0	61.6	60.7	60.5	61.5	64.4	67.6	69.2	69.4	68.5	
12 *	61.5	62.0	61.6	62.0	62.2	62.0	61.6	61.2	60.2	59.7	62.0	65.4	69.2	69.6	70.6	69.2	
13	63.4	63.3	62.5	62.1	61.6	61.5	61.4	60.5	59.1	59.6	62.8	66.4	68.6	69.6	69.4	68.4	
14	61.6	62.2	62.3	62.7	62.3	61.8	60.9	60.5	60.0	59.2	62.2	65.7	70.6	70.2	71.3	69.6	
15	58.7	58.6	60.2	61.7	61.5	60.3	60.5	59.6	59.1	59.5	63.6	66.2	69.0	68.5	70.2	66.2	
16 *	62.3	62.5	62.5	62.2	61.9	61.5	61.0	60.7	60.0	60.6	63.7	66.7	68.6	68.7	68.6	67.6	
17	63.5	63.2	62.4	63.0	62.3	62.3	61.5	60.8	59.2	60.3	63.2	66.7	69.2	70.8	71.1	69.8	
18	60.2	56.6	57.1	58.6	59.5	60.8	60.3	59.5	57.8	60.1	61.4	65.0	70.5	72.0	70.6	70.6	
19	62.3	64.0	62.5	62.5	62.2	63.8	62.2	61.4	60.3	60.1	61.2	64.2	67.2	69.6	69.3	67.7	
20	61.3	61.3	61.8	62.3	62.0	61.5	62.0	62.2	62.2	60.8	62.3	64.5	67.2	68.8	68.6	67.4	
21	63.0	63.0	63.2	63.3	63.3	62.8	62.1	60.8	58.8	58.0	59.3	63.2	67.6	69.2	69.2	68.2	
22	61.4	61.2	61.3	62.0	63.6	62.5	62.9	63.6	63.0	62.5	63.5	66.4	68.6	67.8	67.2	65.7	
23	59.5	61.7	57.8	59.6	60.6	60.7	60.6	60.2	60.1	60.5	62.0	64.3	66.5	67.5	66.8	64.8	
24	62.6	62.5	62.8	63.0	62.8	62.5	62.2	60.5	59.6	59.4	62.1	65.3	67.9	69.6	68.1	66.3	
25	62.1	61.8	58.5	60.6	56.8	59.8	61.2	62.2	60.6	61.6	62.7	66.5	68.5	69.5	68.6	68.6	
26	57.2	58.5	61.4	62.2	62.9	63.6	64.5	64.6	62.0	62.3	64.2	64.3	68.0	68.7	71.4	71.6	
27	60.4	60.8	60.4	62.2	61.0	62.9	62.7	63.7	62.2	62.3	62.5	64.4	66.9	68.5	67.2	66.2	
28 *	62.3	62.1	61.8	61.8	61.6	61.4	62.0	61.4	59.9	60.1	61.4	64.8	67.1	67.7	67.4	66.6	
29	62.8	62.6	62.5	62.4	62.0	62.3	62.7	62.2	60.6	60.0	62.1	65.4	68.1	67.8	67.8	66.7	
30	62.5	64.7	52.0	62.1	61.4	61.1	61.4	60.8	59.4	59.0	59.7	63.7	67.1	67.5	66.2	65.6	
31 **	56.8	62.3	63.4	63.6	63.4	63.4	62.6	60.7	61.6	61.1	64.1	67.7	71.5	71.2	71.2	71.8	
Mean	60.9	61.3	60.5	61.0	61.4	61.7	61.8	61.5	60.5	60.6	62.6	65.7	68.4	69.1	69.3	68.2	
Mean *	61.8	61.7	61.7	61.9	61.9	61.8	61.6	61.2	60.1	60.0	61.8	6					

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														SEPTEMBER
										h m		h m		
65.5	62.1	62.4	60.8	56.4	61.3	62.8	64.3	63.4	13 14	72.7	20 29	51.7	21.0	1
65.5	63.5	62.0	58.9	60.2	59.1	61.2	62.3	62.7	13 22	70.8	21 34	53.1	17.7	2
67.3	65.5	58.6	63.0	64.0	63.2	53.8	55.9	63.0	12 58	71.8	23 33	42.9	28.9	3
68.4	67.1	62.7	58.3	59.4	61.4	57.7	59.2	64.4	14 53	78.8	00 06	49.3	29.5	4 **
65.7	62.3	57.3	59.4	63.5	65.3	59.5	59.1	62.5	13 07	73.6	22 35	53.4	20.2	5
65.5	64.5	64.3	64.7	64.7	64.4	64.3	63.2	63.3	13 02	74.4	07 26	54.6	19.8	6
66.6	65.4	65.7	65.5	64.3	63.8	64.5	63.4	63.4	14 28	70.5	08 14	53.6	16.9	7 *
65.6	65.5	66.0	65.5	65.1	64.5	65.3	64.1	64.6	14 11	74.3	08 13	56.2	18.1	8 *
66.1	65.8	66.1	66.0	65.5	65.0	63.8	61.3	63.8	13 34	71.1	07 26	56.8	14.3	9 *
67.2	67.9	67.9	68.0	66.9	66.4	60.2	60.7	63.8	13 45	71.7	08 36	56.4	15.3	10 *
67.2	67.1	67.4	66.8	64.6	62.4	63.2	59.8	63.9	13 36	75.1	06 38	56.3	18.8	11
63.7	64.3	66.1	65.4	65.6	65.5	65.2	64.0	63.1	13 35	71.0	00 15	53.0	18.0	12
66.9	66.6	67.1	65.7	65.5	64.0	54.7	55.2	63.5	13 54	70.5	22 05	51.0	19.5	13
67.6	66.4	66.1	65.5	64.8	59.5	61.5	63.1	63.6	13 57	75.5	05 20	55.4	20.1	14
67.1	64.7	65.2	65.3	58.5	56.2	63.7	63.6	63.2	13 25	74.6	20 58	52.8	21.8	15
66.1	66.1	66.2	63.6	61.2	64.0	64.4	63.7	63.2	14 23	71.9	02 43	49.4	22.5	16
66.9	66.4	67.1	65.8	59.7	56.8	62.3	63.3	63.6	14 38	73.2	21 08	52.4	20.8	17
66.3	66.5	63.3	62.7	64.7	64.3	61.5	59.7	63.8	12 39	74.9	24 00	53.2	21.7	18
66.5	65.5	65.5	65.3	64.7	64.3	63.5	62.4	62.1	11 58	73.5	01 21	51.2	22.3	19
65.7	65.1	63.3	61.3	52.5	54.0	46.7	54.6	65.0	13 37	78.8	20 04	37.4†	41.4	20 **
70.8	60.1	57.7	60.2	58.4	54.2	60.1	61.2	63.2	06 27	80.6	20 59	39.8	40.8	21 **
68.6	67.6	58.3	59.7	61.6	62.8	62.3	61.8	63.9	02 05	82.1†	18 32	50.3	31.8	22 **
65.3	59.1	61.1	62.3	59.6	59.5	57.5	54.2	63.1	14 38	70.2	21 34	51.2	19.0	23
66.3	64.7	62.6	60.7	60.1	59.1	60.1	61.0	62.6	13 31	72.6	00 00	53.7	18.9	24
63.9	60.9	63.1	61.7	60.0	62.0	58.0	59.5	63.3	13 15	72.0	00 51	51.4	20.6	25 **
66.3	64.2	64.1	58.6	60.6	61.0	61.6	61.5	62.6	12 54	69.1	19 41	53.6	15.5	26
63.6	63.7	63.6	61.5	63.9	61.3	58.5	61.8	63.1	11 53	70.1	00 41	54.6	15.5	27
63.7	63.0	61.1	63.4	63.4	60.4	62.4	59.4	62.3	12 44	67.7	02 22	55.9	11.8	28
66.0	65.2	65.3	64.4	64.4	64.2	61.2	62.7	63.5	12 08	69.6	00 39	56.9	12.7	29 *
67.0	65.0	61.8	60.3	61.2	59.4	58.8	59.5	63.4	13 06	72.8	18 55	55.2	17.6	30
66.3	64.7	63.6	63.0	62.2	61.6	60.9	60.9	63.4	-	73.2	-	52.1	21.1	Mean
66.3	66.0	66.2	65.9	65.2	64.8	63.0	62.4	63.8	-	71.4	-	56.0	15.5	Mean *
67.5	64.2	61.0	60.2	58.4	58.9	57.0	59.3	64.0	-	78.5	-	45.6	32.8	Mean **
9° + Tabular Quantities														OCTOBER
										h m		h m		
65.0	63.6	57.8	57.3	55.8	53.9	57.8	62.5	62.6	11 31	72.8	21 53	49.5	23.3	1 **
66.6	66.0	66.3	65.6	65.0	64.7	63.6	62.6	64.2	04 31	70.5	08 23	55.7	14.8	2
69.6	65.3	59.8	62.3	57.3	54.8	53.0	53.2	62.4	16 46	72.3	22 45	38.9	33.4	3 **
67.8	64.8	64.3	60.6	54.2	59.6	59.6	57.3	59.9	12 52	73.6	02 58	41.2	32.4	4 **
73.4	73.3	63.1	62.2	61.3	63.5	59.7	59.8	64.1	16 34	75.6	03 33	50.7	24.9	5
57.5	63.5	63.3	62.1	50.2	54.8	60.8	61.5	62.3	07 09	71.8	20 27	41.9	29.9	6 **
66.9	66.0	65.9	65.0	63.3	61.3	63.8	59.1	64.0	14 30	70.2	23 14	57.1	13.1	7
66.2	65.4	63.6	63.2	63.7	63.6	63.3	62.9	63.4	14 22	69.5	09 01	58.4	11.1	8
65.7	65.4	65.1	62.1	60.5	62.8	62.7	62.2	63.4	14 49	68.7	19 44	58.5	10.2	9
67.4	63.0	64.7	65.4	64.8	64.2	63.6	62.8	63.4	14 17	69.1	09 03	58.5	10.6	10 *
67.1	66.1	65.5	65.5	64.4	62.0	60.5	61.3	63.7	14 16	69.5	22 10	60.1	9.4	11 *
68.3	68.4	67.5	65.7	64.2	59.6	62.4	63.7	64.2	14 37	71.8	21 13	57.7	14.1	12 *
66.9	66.1	65.5	64.9	64.2	64.2	63.8	62.8	64.1	13 26	70.2	08 54	58.2	12.0	13
67.4	66.1	64.5	63.6	63.1	60.4	57.1	57.1	63.4	12 53	75.6	22 15	54.7	20.9	14
65.2	65.3	64.8	64.1	65.3	59.9	59.3	62.1	62.9	14 12	70.6	21 52	56.1	14.5	15
66.4	65.6	65.3	64.3	62.2	63.3	63.5	63.5	63.9	12 34	69.5	08 40	59.3	10.2	16 *
68.9	69.5	68.1	65.7	63.5	59.3	57.7	60.1	64.3	12 36	73.8	22 03	55.4	18.4	17
63.7	63.2	64.4	62.2	55.6	55.8	58.4	60.3	61.8	13 42	76.6	20 48	51.6	25.0	18
65.9	64.7	61.0	62.0	63.6	63.2	63.0	60.7	63.5	13 50	71.3	23 37	58.4	12.9	19
65.6	64.4	63.8	63.6	63.2	63.1	63.1	63.0	63.6	13 37	69.5	00 46	59.4	10.1	20
66.2	65.2	64.3	64.2	63.6	61.8	59.4	60.5	63.3	14 00	70.2	09 40	57.4	12.8	21
60.9	62.1	62.8	60.4	60.0	57.5	56.1	57.0	62.5	15 03	70.0	21 44	54.7	15.3	22
63.6	63.5	63.7	63.7	63.6	63.5	63.0	63.0	62.5	12 57	68.3	00 02	58.3	10.0	23
65.7	65.1	64.4	64.5	63.8	62.6	61.8	61.3	63.6	13 29	70.7	09 30	58.4	12.3	24
66.6	64.5	64.0	64.0	63.3	59.9	55.6	51.5	62.5	13 50	72.5	23 25	50.0	22.5	25
70.5	67.6	65.2	64.0	62.6	56.4	55.6	58.8	63.7	15 26	75.7	00 00	53.9	21.8	26
65.5	63.3	63.6	63.6	63.3	62.5	62.1	62.2	63.4	13 38	68.9	02 27	59.2	9.7	27
65.4	64.7	64.3	64.1	63.8	63.5	63.4	63.0	63.4	13 34	68.3	08 37	59.3	9.0	28 *
66.3	65.4	64.5	64.2	63.9	63.6	63.6	63.5	63.9	12 49	69.4	09 05	59.3	10.1	29
64.1	65.1	65.6	65.1	59.8	55.1	51.4	50.9	61.3	01 27	73.9	22 35	45.4	28.5	30
73.3	66.2	63.2	57.3	59.6	43.7	51.2	58.1	62.9	16 47	77.7†	21 21	34.6†	43.1	31 **
66.4	65.4	64.2	63.3	61.7	60.1	60.0	60.3	63.2	-	71.6	-	53.9	17.6	Mean
66.9	65.6	65.5	65.0	63.9	62.5	62.7	62.9	63.7	-	69.6	-	59.0	10.7	Mean *
66.6	64.7	61.7	59.9	55.4	53.4	56.5	58.5	62.0	-	73.6	-	41.2	32.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
9° + Tabular Quantities																	
1 **	60.1	62.2	63.1	63.5	60.6	64.7	61.5	62.7	63.6	64.6	65.2	66.6	69.4	68.6	68.3	65.3	
2 **	63.7	65.1	67.4	62.6	71.4	68.3	62.5	62.5	67.0	63.4	61.5	62.9	67.7	69.8	66.9	66.3	
3 **	58.4	54.2	65.3	65.2	65.2	62.7	62.1	63.6	63.6	61.9	61.2	64.3	69.4	69.4	65.2	65.7	
4	62.0	62.6	63.2	62.8	62.6	62.1	62.6	62.3	60.3	59.8	62.3	66.5	72.6	71.2	72.4	69.2	
5	61.1	59.0	59.3	65.6	62.2	64.4	64.0	64.7	63.4	62.3	62.7	63.5	65.0	68.1	64.4	65.4	
6	61.4	59.7	58.2	59.3	60.4	61.5	63.4	63.5	60.8	60.2	61.7	65.1	67.7	68.5	68.2	64.3	
7	62.1	62.5	62.3	62.4	64.4	63.4	62.4	61.4	59.7	58.5	60.2	62.6	66.5	68.3	67.9	66.1	
8	62.6	62.5	62.1	64.0	60.7	61.4	61.6	62.1	60.9	60.4	61.8	64.4	66.5	68.3	66.9	66.8	
9	62.6	62.4	62.1	62.1	62.1	62.5	62.3	62.3	61.5	61.3	61.7	64.0	66.4	67.4	67.5	67.1	
10	57.1	57.3	59.5	60.4	60.9	60.5	60.7	61.5	60.5	61.1	61.9	64.1	67.5	69.5	69.5	67.6	
11 *	59.5	60.3	62.0	61.8	61.5	61.3	61.7	61.5	61.1	60.0	60.4	62.4	64.7	66.7	67.1	65.8	
12 *	61.2	61.2	60.4	59.3	60.2	61.3	61.6	61.5	60.5	59.4	60.5	62.4	66.3	67.4	66.6	66.1	
13	59.4	61.5	61.2	61.5	61.7	61.4	62.0	61.8	61.2	59.4	59.4	63.4	64.8	68.2	70.2	69.3	
14	59.5	59.3	53.6	56.4	59.2	60.8	60.2	60.2	59.5	60.3	63.3	66.4	66.8	69.3	71.2	68.8	
15 *	61.3	62.0	62.5	63.3	62.9	62.3	61.5	60.5	59.5	59.8	61.4	64.0	66.3	67.5	67.6	66.6	
16	63.0	63.3	63.4	63.3	62.9	62.4	61.8	61.2	59.5	59.0	60.2	62.5	65.5	67.6	67.6	67.5	
17	63.4	63.6	62.5	68.2	65.8	63.3	61.7	60.2	59.3	59.7	61.8	64.8	68.7	69.3	67.7	66.3	
18	60.3	59.4	60.7	61.3	61.4	61.3	61.4	61.8	62.1	62.5	63.3	64.1	65.1	67.8	67.5	65.7	
19	61.5	62.1	62.8	62.8	62.6	63.2	62.1	63.4	61.5	62.0	61.7	64.7	67.2	69.3	68.6	66.2	
20 *	61.5	61.8	59.7	62.4	61.8	62.3	62.1	61.3	60.2	59.5	60.8	62.7	65.5	67.0	66.2	65.7	
21	62.0	62.6	63.1	63.5	63.2	61.3	61.2	61.1	61.2	61.3	63.4	66.7	70.2	70.7	72.6	74.7	
22	59.0	61.2	63.4	66.5	63.2	61.6	62.4	61.9	61.1	61.3	62.2	66.5	66.4	69.0	67.6	67.6	
23	54.5	50.0	47.0	50.5	52.7	59.0	58.4	63.7	62.4	61.1	63.4	68.2	69.8	72.5	70.4	69.5	
24 *	61.7	62.0	63.7	61.5	61.5	61.4	61.5	61.4	60.7	60.5	62.0	63.6	66.9	66.8	67.4	66.8	
25	60.4	63.3	63.1	62.1	62.4	62.6	62.3	61.8	62.3	62.8	63.9	65.2	68.1	71.1	69.6	69.2	
26	60.5	62.0	61.7	61.8	63.2	63.4	62.5	63.0	63.1	62.5	63.7	68.1	67.2	67.8	67.1	65.4	
27	55.6	59.5	60.5	60.4	60.6	59.8	59.9	61.5	60.4	61.3	62.7	65.7	67.1	67.4	67.1	66.3	
28 **	54.2	59.2	52.9	37.5	57.4	63.3	65.2	60.2	60.4	58.9	63.3	61.8	66.6	68.5	67.4	65.3	
29	59.2	62.5	63.1	61.7	60.8	61.1	60.3	60.0	60.1	60.5	59.7	63.0	65.3	65.5	66.5	66.5	
30 **	61.2	63.3	62.7	62.4	62.0	61.5	61.5	61.9	62.7	65.5	67.3	68.1	69.3	70.1	71.0	75.6	
Mean	60.3	60.9	61.0	61.2	61.9	62.2	61.8	61.9	61.3	61.0	62.2	64.6	67.2	68.6	68.1	67.3	
Mean *	61.0	61.5	61.7	61.7	61.6	61.7	61.7	61.2	60.4	59.8	61.0	63.0	65.9	67.1	67.0	66.2	
Mean **	59.5	60.8	61.9	58.2	62.9	64.1	62.6	62.2	63.5	62.9	63.7	64.7	68.5	69.3	67.8	67.6	
DECEMBER																	
9° + Tabular Quantities																	
1	55.5	61.5	62.7	62.7	62.2	64.0	65.3	64.3	62.3	63.2	63.6	65.9	69.4	69.6	69.3	64.8	
2	58.3	59.7	61.4	64.0	65.1	65.0	63.2	63.5	61.5	61.4	63.0	66.9	66.1	67.7	66.1	62.3	
3 **	52.4	54.9	58.1	63.0	64.4	69.5	68.0	65.7	65.7	64.5	70.4	67.5	69.2	68.5	68.1	61.4	
4	61.3	61.3	58.5	59.4	61.5	61.4	61.7	61.5	60.2	60.5	62.5	64.2	65.7	66.4	66.1	66.0	
5 **	61.4	61.7	62.2	62.2	62.3	62.2	61.7	63.2	62.3	60.7	63.5	65.1	67.9	69.5	67.7	71.8	
6	60.6	61.0	59.8	60.4	61.2	61.5	61.6	61.0	60.2	61.1	62.3	64.7	66.3	66.3	65.4	65.2	
7 *	59.1	58.1	56.5	60.3	61.5	62.1	61.3	61.1	60.9	61.4	62.1	62.4	63.0	64.0	64.2	65.2	
8	60.2	60.5	60.8	60.6	60.9	61.0	60.7	61.2	61.5	62.0	62.4	63.7	64.3	63.8	63.4	64.0	
9	60.7	61.1	61.1	61.2	60.7	60.7	60.5	61.8	61.2	61.5	63.1	63.5	65.3	64.8	64.7	64.8	
10 *	59.8	60.8	60.3	60.4	59.8	60.4	60.6	61.0	61.4	62.5	63.4	63.5	64.1	64.2	63.8	64.2	
11 *	61.7	61.6	61.6	61.3	60.7	60.7	61.4	61.2	61.2	61.5	62.0	64.2	64.3	64.5	64.7	65.0	
12	61.2	61.1	60.2	59.3	59.4	59.6	60.7	60.7	60.8	61.2	61.5	64.3	65.0	66.0	65.7	65.1	
13	56.6	61.8	61.5	60.6	61.4	60.5	61.5	60.8	60.3	60.5	62.0	63.3	63.9	64.7	64.8	64.7	
14 **	57.2	60.5	54.8	59.0	60.9	60.3	61.4	62.4	60.6	61.2	62.0	66.2	66.8	66.2	67.3	66.6	
15	59.5	61.7	64.8	61.5	61.9	64.1	65.9	67.7	67.8	64.6	64.3	65.2	64.7	65.3	65.7	62.4	
16	57.2	59.3	63.4	61.7	62.2	62.4	62.6	62.6	63.2	62.9	63.5	64.4	65.5	67.0	66.1	66.5	
17	57.5	59.8	61.8	62.9	62.6	62.4	62.2	62.6	62.8	62.3	62.3	63.1	64.6	65.1	65.2	64.8	
18	59.7	60.1	61.7	62.2	62.2	62.3	62.5	63.6	63.7	63.6	64.4	64.4	65.3	65.6	66.8	65.4	
19	60.2	60.4	60.6	61.4	61.3	62.2	62.4	64.2	65.7	65.4	64.3	65.4	67.9	68.4	70.4	69.3	
20	59.4	62.3	61.4	62.3	63.2	61.7	61.4	61.2	60.7	59.9	60.9	62.7	64.1	64.4	64.5	65.1	
21 *	61.1	62.0	62.2	61.4	61.9	62.3	61.7	61.4	61.1	60.0	60.7	62.0	63.4	64.8	65.2	65.3	
22 *	59.2	59.3	60.4	62.0	61.7	61.8	61.8	61.8	61.4	60.8	61.8	63.4	64.7	65.7	65.5	64.7	
23	59.6	60.4	61.3	61.9	61.2	60.2	62.0	61.6	61.3	59.8	60.5	63.5	65.8	68.0	67.3	69.5	
24	51.6	57.3	60.6	61.4	61.5	61.5	61.0	62.0	61.1	61.1	60.8	65.1	68.5	68.3	68.1	65.1	
25	62.2	62.1	63.1	63.4	62.6	62.5	62.1	61.7	61.4	61.3	62.6	63.4	65.3	65.4	64.4	64.0	
26	59.5	61.3	61.0	62.4	63.4	62.2	61.9	61.1	61.2	60.9	62.2	63.9	67.6	68.5	66.4	63.6	
27 **	60.6	58.1	63.1	61.4	63.3	64.3	64.0	63.2	63.4	62.3	63.8	64.3	68.8	68.6	65.5	64.0	
28 **	57.6	54.1	58.6	61.5	62.5	63.3	62.4	62.3	61.6	61.3	62.1	64.3	67.5	68.3	69.3	62.7	
29	59.7	62.2	63.4	62.7	66.4	62.9	62.2	61.5	60.3	60.7	60.4	63.5	63.1	66.7	65.8	64.1	
30	59.8	61.5	62.0	62.3	64.3	63.6	63.0	61.7	61.3	60.7	62.1	65.2	67.1	67.6	66.1	66.5	
31	61.5	62.5	63.3	61.7	62.2	62.2	62.0	62.2	61.8	59.5	59.6	61.1	62.2	63.3	63.1	63.1	
Mean	59.1	60.3	61.0	61.6	62.1	62.3	62.3	62.3	61.9	61.6	62.6	64.2	65.7	66.4	66.0	65.1	
Mean *	60.2	60.4	60.2	61.1	61.1	61.5	61.4	61.3	61.2	61.2							

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
9° + Tabular Quantities															
										h m		h m			
63.5	60.6	60.7	58.4	56.5	61.4	56.5	57.7	62.7	62.7	13 04	71.0	20 12	52.4	18.6	1 **
67.6	60.6	55.6	53.4	55.1	51.2	53.2	53.5	62.5	62.5	05 02	76.3	18 48	40.6	35.7	2 **
64.1	60.1	56.4	60.2	57.5	57.1	58.2	60.3	62.0	62.0	13 11	72.4	20 48	49.0	23.4	3 **
64.9	66.0	64.2	50.0	57.4	56.9	59.3	57.6	63.0	63.0	12 51	76.5	19 14	41.8	34.7	4
62.7	62.2	62.5	59.2	60.5	62.3	62.5	61.4	62.9	62.9	13 06	69.5	00 13	56.7	12.8	5
62.7	62.7	60.9	60.2	59.4	53.5	59.6	61.4	61.8	61.8	11 48	70.7	21 25	47.0	23.7	6
64.4	63.4	59.0	62.2	57.4	61.6	62.4	62.6	62.7	62.7	13 15	68.6	20 09	50.3	18.3	7
66.0	65.2	64.3	64.5	62.7	62.8	63.3	63.0	63.5	63.5	13 28	69.3	04 56	59.7	9.6	8
67.1	67.4	67.6	63.6	56.5	59.2	60.2	61.0	63.2	63.2	13 57	69.5	20 46	53.1	16.4	9
67.8	67.2	66.6	65.3	64.3	63.7	57.5	60.1	63.0	63.0	13 54	70.6	00 58	53.9	16.7	10
65.5	64.7	64.4	64.2	63.3	62.9	62.3	61.3	62.8	62.8	14 17	67.8	00 12	58.9	8.9	11 *
66.2	66.1	67.6	67.1	63.2	62.5	61.6	56.7	62.8	62.8	19 06	69.4	23 25	54.4	15.0	12 *
69.2	69.7	68.4	66.5	64.7	61.8	54.4	60.2	63.4	63.4	14 56	74.4	22 30	52.4	22.0	13
66.2	63.3	64.5	62.3	60.1	58.3	60.1	61.2	62.1	62.1	13 19	74.7	02 30	51.2	23.5	14
65.7	64.2	63.4	62.7	62.0	61.7	62.1	61.7	63.0	63.0	14 17	68.4	09 22	59.1	9.3	15 *
65.8	61.8	63.1	61.3	58.7	57.8	59.2	61.4	62.5	62.5	13 46	69.4	21 47	57.4	12.0	16
64.5	62.9	62.4	62.3	62.3	62.3	62.4	61.8	63.6	63.6	03 34	71.0	09 12	58.4	12.6	17
64.6	64.7	62.4	59.0	60.3	61.2	61.0	61.6	62.5	62.5	13 34	68.7	18 58	46.8	21.9	18
63.4	63.2	63.4	62.2	62.1	61.4	60.7	60.1	63.4	63.4	13 42	70.0	23 07	59.4	10.6	19
65.1	64.4	63.8	63.3	63.1	62.5	62.2	61.4	62.8	62.8	13 37	67.2	02 23	58.7	8.5	20 *
69.9	65.4	62.2	61.3	62.3	58.4	58.1	58.5	64.0	64.0	15 09	75.6	22 38	56.4	19.2	21
66.9	66.2	65.7	63.1	60.3	61.2	62.1	62.1	63.7	63.7	13 48	71.2	00 23	57.2	14.0	22
70.3	69.2	64.1	58.5	52.5	60.8	61.7	61.7	61.3	61.3	14 00	75.4	20 08	44.0	31.4	23
66.0	64.5	63.0	63.5	62.8	61.6	61.1	61.1	63.0	63.0	14 16	67.7	23 58	59.6	8.1	24 *
67.6	65.6	64.6	63.5	62.0	60.9	60.1	56.2	63.8	63.8	13 46	71.7	23 06	55.1	16.6	25
64.2	63.4	63.1	63.3	63.1	62.4	60.5	59.3	63.4	63.4	11 57	69.7	22 54	57.4	12.3	26
66.1	67.2	66.6	64.2	64.5	63.5	60.6	59.9	62.9	62.9	13 54	68.6	00 24	53.7	14.9	27
64.0	62.5	61.4	61.5	58.6	55.5	55.7	58.4	60.0	60.0	06 13	71.1	03 40	31.1†	40.0	28 **
65.4	64.4	61.7	61.2	58.2	60.6	60.3	59.8	62.0	62.0	14 51	68.2	20 30	55.4	12.8	29
72.4	65.3	57.7	59.0	60.5	58.4	55.9	54.3	63.7	63.7	15 41	80.6†	23 19	49.4	31.2	30 **
66.1	64.5	63.0	61.6	60.4	60.2	59.8	59.9	62.8	62.8	-	71.2	-	52.7	18.5	Mean
65.7	64.8	64.4	64.2	62.9	62.2	61.9	60.4	62.9	62.9	-	68.1	-	58.1	10.0	Mean *
66.3	61.8	58.4	58.5	57.6	56.7	55.9	56.8	62.2	62.2	-	74.3	-	44.5	29.8	Mean **

9° + Tabular Quantities

DECEMBER

										h m		h m			
63.1	60.5	59.5	59.4	59.2	60.4	59.5	60.2	62.8	62.8	12 38	71.9	00 07	52.5	19.4	1
63.8	63.4	59.3	55.1	58.4	55.9	58.3	55.1	61.9	61.9	12 53	71.3	19 39	51.4	19.9	2
65.2	64.1	60.2	61.1	58.2	52.4	56.8	60.2	62.9	62.9	12 41	74.6	21 38	46.3	28.3	3 **
65.7	64.6	63.9	62.9	61.3	58.4	60.4	60.7	62.3	62.3	12 21	66.8	21 20	56.2	10.6	4
71.2	71.6	66.9	61.2	51.4	41.1	54.7	58.3	62.6	62.6	18 00	84.2†	21 06	34.2†	50.0	5 **
64.4	64.3	60.5	59.5	59.6	61.7	61.3	60.4	62.1	62.1	13 09	68.6	19 04	56.4	12.2	6
64.3	63.4	62.8	62.5	61.7	61.5	59.6	60.4	61.6	61.6	15 40	65.5	02 13	54.4	11.1	7 *
64.6	65.0	63.7	64.1	62.8	60.8	59.3	59.7	62.1	62.1	16 56	65.5	22 37	57.8	7.7	8
64.4	64.8	63.3	62.7	62.3	62.3	62.5	61.4	62.5	62.5	13 08	68.7	24 00	59.5	9.2	9
64.4	63.4	63.1	63.7	62.2	59.9	61.5	61.6	62.1	62.1	15 58	64.6	04 36	58.9	5.7	10 *
63.8	65.0	64.5	63.5	63.3	62.4	61.2	59.2	62.5	62.5	11 45	66.4	23 20	58.4	8.0	11 *
64.5	65.0	64.1	63.6	59.4	52.9	50.7	54.4	61.1	61.1	13 48	67.4	22 04	48.0	19.4	12
65.4	66.9	65.1	64.1	64.6	61.6	49.9	53.5	61.7	61.7	17 17	67.7	22 37	44.5	23.2	13
62.9	61.8	56.7	61.9	60.2	57.5	55.3	57.7	61.1	61.1	11 23	69.8	18 01	45.3	24.5	14 **
60.7	60.5	59.5	60.6	59.9	59.8	51.4	53.9	62.2	62.2	07 04	69.4	22 59	48.0	21.4	15
59.8	63.6	62.5	61.4	58.6	56.5	56.4	56.4	61.9	61.9	12 51	67.8	23 56	54.5	13.3	16
64.1	63.5	62.0	61.7	61.2	59.6	59.7	60.4	62.3	62.3	14 07	65.7	00 00	55.1	10.6	17
65.4	64.6	63.4	63.1	62.2	60.5	59.5	59.9	63.0	63.0	14 21	67.6	22 26	58.4	9.2	18
67.5	66.3	63.2	61.6	60.7	60.4	60.5	59.6	63.7	63.7	14 40	71.6	23 44	58.9	12.7	19
64.7	65.1	65.0	63.5	62.0	60.5	60.4	59.7	62.3	62.3	18 04	65.4	00 33	58.6	6.8	20
65.0	64.8	64.3	63.5	62.5	61.0	59.5	59.2	62.3	62.3	14 14	65.6	22 50	58.4	7.2	21 *
65.2	65.6	63.0	63.5	62.9	59.3	56.6	58.7	62.1	62.1	14 01	66.7	21 59	55.4	11.3	22 *
71.7	62.0	68.8	66.8	62.1	59.7	56.7	48.9	62.5	62.5	16 44	73.1	23 33	43.1	30.0	23
63.7	63.0	62.3	62.0	61.7	61.1	61.1	60.6	62.1	62.1	12 21	69.6	00 03	49.9	19.7	24
63.5	63.8	62.1	61.6	60.8	60.5	60.5	59.4	62.5	62.5	12 47	66.0	23 45	58.1	7.9	25
65.4	66.2	56.3	61.6	61.2	52.3	53.3	54.3	61.6	61.6	13 03	70.5	21 41	45.6	24.9	26
55.9	62.2	61.5	54.9	57.3	58.4	58.5	60.2	62.0	62.0	12 53	74.9	20 00	47.3	27.6	27 **
62.6	58.4	57.8	63.0	59.7	57.1	56.4	57.4	61.3	61.3	13 31	73.3	01 14	51.6	21.7	28 **
60.2	61.8	62.0	61.5	60.7	59.3	60.0	60.7	62.2	62.2	04 15	67.7	00 01	57.6	10.1	29
66.1	63.2	61.8	59.2	60.5	60.5	60.3	60.7	62.8	62.8	13 29	68.9	19 21	57.7	11.2	30
62.7	62.4	61.7	61.4	57.1	60.4	60.6	61.2	61.6	61.6	02 50	64.0	20 30	53.7	10.3	31
64.3	63.9	62.3	61.8	60.5	58.6	58.1	58.5	62.2	62.2	-	69.1	-	52.8	16.3	Mean
64.5	64.4	63.5	63.3	62.5	60.8	59.7	59.8	62.1	62.1	-	65.8	-	57.1	8.7	Mean *
63.6	63.6	60.6	60.4	57.4	53.3	56.3	58.8	62.0	62.0	-	75.4	-	44.9	30.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	687	686	687	687	690	692	692	687	683	673	666	669	675	678	684	688	
2 *	690	690	688	689	691	692	693	692	685	675	673	673	672	673	678	687	
3	695	699	705	700	698	694	691	684	674	666	664	672	677	678	680	682	
4	688	687	688	686	685	686	686	686	691	690	695	694	680	680	679	677	
5	678	683	685	687	691	687	683	678	673	664	665	663	661	655	643	653	
6 **	634	639	640	636	636	646	651	653	654	645	627	630	635	630	622	649	
7 **	645	655	652	653	682	685	677	665	657	642	625	618	625	637	647	657	
8	658	651	643	646	654	658	665	668	669	663	651	651	656	657	660	659	
9 **	638	635	649	657	664	663	663	663	661	653	650	654	647	645	643	655	
10 **	616	615	615	621	635	650	643	641	625	615	609	605	607	601	622	608	
11	620	628	635	637	640	643	641	642	633	628	630	635	637	644	644	649	
12	636	661	647	640	642	649	654	655	645	640	642	649	658	667	674	672	
13	672	671	670	674	674	674	675	674	668	652	658	656	654	655	661	666	
14	684	684	684	684	686	687	692	688	687	683	675	672	669	676	688	685	
15	665	669	668	685	679	667	680	673	662	659	664	663	662	660	661	661	
16	681	681	683	683	686	690	689	689	687	685	689	673	643	644	654	648	
17	679	671	664	667	679	684	678	671	664	652	642	639	638	639	639	641	
18	676	674	671	686	679	679	676	675	670	659	654	644	642	643	652	658	
19	672	676	676	680	684	685	684	685	674	654	646	646	644	654	657	662	
20 *	680	681	682	683	684	686	686	683	677	667	657	657	665	673	674	677	
21 *	681	684	687	689	691	694	695	692	683	669	659	653	651	656	663	669	
22	687	690	693	695	696	696	703	710	699	694	692	683	675	675	675	676	
23	710	694	694	691	692	695	702	705	704	699	687	677	670	674	673	674	
24 *	684	684	686	686	692	696	702	701	694	685	679	673	672	677	683	682	
25	692	694	692	692	693	694	697	699	700	704	691	689	690	676	670	668	
26 **	669	669	671	673	664	664	672	675	673	665	675	671	621	635	654	662	
27	672	672	673	673	680	682	683	677	672	665	660	658	662	670	667	668	
28	682	664	665	665	671	673	671	676	673	659	647	639	638	644	651	655	
29	689	685	684	683	683	686	686	683	681	675	674	673	666	656	642	641	
30	677	665	668	684	678	683	680	673	673	676	666	666	662	668	669	666	
31	689	685	689	679	692	681	694	684	664	655	659	652	643	643	647	657	
Mean	672	672	672	674	677	679	680	678	673	665	660	658	655	657	660	663	
Mean *	684	685	686	687	690	692	694	691	684	674	667	665	667	671	676	681	
Mean **	640	643	645	648	656	662	661	659	654	644	637	636	627	630	638	646	
FEBRUARY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	683	679	675	684	693	693	693	688	675	654	649	649	646	651	645	654	
2	682	681	676	679	686	689	695	698	682	655	649	644	634	625	640	647	
3	650	658	666	663	671	673	675	676	669	659	635	623	630	646	643	638	
4 **	644	656	658	658	663	672	677	671	666	660	638	638	640	626	646	653	
5	666	663	663	662	663	682	683	668	663	652	630	632	629	628	627	635	
6	693	662	658	659	663	673	675	677	671	653	626	629	633	634	648	645	
7	680	668	667	675	678	680	678	683	676	662	654	648	638	643	651	651	
8	680	679	680	684	685	686	690	690	683	681	668	651	652	660	660	673	
9	698	673	663	669	672	674	671	672	672	665	655	646	643	637	651	651	
10 *	668	668	673	672	673	675	679	682	681	671	661	658	659	660	661	666	
11	688	689	690	694	706	698	703	710	727	688	640	658	649	627	612	618	
12	664	666	665	657	652	664	673	680	676	668	643	638	647	651	648	636	
13	693	675	675	674	676	679	688	689	691	684	662	660	658	652	642	644	
14	671	676	672	673	682	689	686	682	676	672	666	663	645	633	654	652	
15	682	682	664	656	679	712	705	674	664	643	634	635	625	619	631	634	
16 **	674	704	655	669	695	705	721	709	683	664	662	654	651	655	641	646	
17	602	631	621	640	666	671	671	652	641	650	648	646	644	640	646	653	
18 *	661	665	665	668	671	672	673	675	673	663	657	656	653	653	661	664	
19	681	676	675	685	683	697	684	691	687	669	650	652	641	643	645	651	
20 *	684	683	683	683	683	685	688	684	681	671	664	660	663	672	675	673	
21 *	691	690	690	690	693	696	701	699	687	678	670	665	663	666	673	671	
22	693	701	701	700	701	723	705	701	700	683	680	686	685	684	683	676	
23	704	682	692	681	684	698	693	686	671	671	651	639	653	663	659	659	
24 *	685	685	685	685	687	689	690	690	683	671	660	648	650	650	658	666	
25 **	699	703	707	712	718	732	713	677	682	671	627	629	643	620	626	627	
26 **	634	618	619	635	637	634	632	615	627	612	596	598	599	601	625	637	
27	650	647	658	668	669	656	663	668	674	667	658	653	659	673	670	680	
28 **	680	666	650	652	661	658	661	663	659	650	641	630	604	618	630	637	
Mean	674	672	670	672	678	684	685	680	676	664	649	646	644	644	648	651	
Mean *	678	678	679	680	681	683	686	686	681	671	662	657	658	660	666	668	
Mean **	666	669	658	665	675	680	681	667	663	651	633	630	627	624	634	640	

\* International Quiet Day. \*\* International Disturbed Day.



TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MARCH																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	646	645	645	639	653	656	653	655	652	645	629	631	635	650	659	649	
2	640	650	665	667	658	661	683	674	666	652	635	621	626	648	642	653	
3	672	676	659	662	650	670	672	677	659	637	661	657	653	670	663	674	
4	677	672	669	673	673	675	668	666	674	664	636	643	636	637	652	660	
5	677	685	673	680	671	681	674	673	670	665	661	652	653	655	656	664	
6	676	693	682	671	675	684	688	683	681	676	671	665	661	664	665	665	
7	685	682	681	683	684	684	685	685	681	673	672	666	660	660	666	667	
8	664	664	689	667	674	677	686	686	681	670	657	647	647	650	661	672	
9 *	677	675	681	682	686	686	687	682	672	658	649	645	645	651	652	657	
10 *	693	692	692	692	693	696	700	697	682	665	656	646	650	658	669	677	
11 *	702	702	705	705	705	709	711	709	700	683	671	666	668	669	679	687	
12	704	695	695	691	698	709	709	706	696	679	663	642	652	642	656	658	
13	698	697	698	692	688	692	697	702	693	682	666	659	652	650	658	670	
14	695	695	693	693	695	696	697	707	698	684	671	653	657	657	668	677	
15	696	694	692	699	702	699	700	700	692	684	675	666	665	672	674	672	
16 *	697	702	696	697	698	698	702	702	696	685	675	672	672	677	682	689	
17	704	709	703	697	694	700	702	698	686	673	662	661	659	669	679	684	
18	701	700	699	698	695	692	697	694	687	683	681	683	688	694	694	695	
19	708	709	707	706	705	704	705	706	705	699	683	686	684	682	686	688	
20	703	703	704	709	703	700	701	701	694	685	676	675	675	675	679	680	
21	704	705	705	703	704	702	700	697	688	673	671	680	682	682	678	687	
22 *	702	702	701	702	701	701	702	699	688	680	675	678	678	675	674	678	
23	712	713	710	723	708	715	715	711	697	678	667	665	663	668	680	687	
24	695	694	703	695	695	696	700	701	686	664	632	627	645	663	675	681	
25	708	708	711	710	725	697	699	695	683	650	634	633	642	663	690	695	
26 **	675	675	675	675	678	682	686	679	666	656	645	593	602	676	596	609	
27 **	655	630	584	637	629	582	560	522	532	537	552	553	538	607	645	670	
28 **	605	611	606	604	592	622	636	638	632	634	624	609	592	627	630	647	
29 **	633	590	592	642	620	625	620	652	649	620	599	592	604	648	642	650	
30 **	633	651	653	656	654	663	654	654	647	609	630	614	624	631	642	656	
31	671	678	681	673	672	672	672	672	652	632	628	623	620	626	651	659	
Mean	682	681	679	681	680	681	683	681	674	661	652	645	646	658	663	670	
Mean *	694	695	695	696	697	698	700	698	688	674	665	661	663	666	671	678	
Mean **	643	630	620	639	634	633	631	629	626	618	610	596	594	642	634	645	
APRIL																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	668	668	682	667	665	678	686	680	652	643	634	626	622	634	647	658	
2	678	677	676	676	676	678	680	680	673	660	643	645	649	650	665	675	
3	680	682	683	680	676	679	679	681	671	652	644	631	642	657	670	675	
4	682	677	680	680	691	685	685	681	668	650	636	640	642	652	664	675	
5 *	683	694	690	689	693	694	694	689	674	655	640	642	650	665	680	685	
6	697	702	700	697	701	702	703	699	685	668	660	662	667	674	691	697	
7	694	694	691	691	689	691	696	702	694	679	664	650	651	663	667	680	
8	685	682	686	687	683	693	705	693	664	650	638	626	619	610	630	657	
9 **	653	650	654	652	659	675	685	683	658	623	629	618	620	621	628	642	
10 **	701	694	705	687	678	694	684	661	615	670	673	651	625	612	610	611	
11	648	656	650	649	655	661	654	648	640	635	625	621	627	635	648	662	
12	664	670	668	676	683	691	700	693	679	663	637	625	623	634	648	664	
13	691	697	695	687	691	695	696	680	668	658	644	634	629	641	662	677	
14	699	700	702	697	699	701	701	695	682	672	659	657	658	664	666	680	
15	684	697	686	689	694	701	701	696	684	668	653	645	648	660	668	683	
16	706	707	704	696	697	702	708	712	708	690	673	655	669	681	688	695	
17	698	696	697	699	699	701	701	703	693	682	665	653	662	663	671	690	
18 *	702	691	689	690	690	692	692	691	687	678	668	663	661	664	666	678	
19 *	704	703	704	702	704	705	706	705	702	690	680	671	669	666	675	684	
20 *	702	703	703	703	702	702	705	710	708	703	686	677	676	671	674	684	
21	711	715	702	701	711	708	703	698	688	669	658	651	654	651	660	667	
22 *	697	696	695	696	699	703	704	700	686	670	655	647	656	667	680	688	
23 **	703	702	703	704	705	710	712	710	700	686	676	688	673	692	686	715	
24 **	638	634	641	642	641	652	665	660	652	642	638	647	643	633	655	653	
25	671	671	675	679	680	681	683	669	655	638	619	622	638	638	657	672	
26	680	688	706	698	670	671	671	663	649	640	641	646	636	644	655	675	
27	695	683	681	684	690	689	677	691	682	667	650	644	647	647	654	663	
28	686	686	686	687	685	689	684	688	676	672	659	656	657	658	658	668	
29 **	683	688	675	688	683	685	687	686	683	675	664	654	664	664	657	674	
30	678	681	674	678	675	682	683	675	679	671	648	631	633	655	661	664	
Mean	685	681	686	685	685	690	691	687	675	664	652	646	647	652	661	673	
Mean *	698	697	696	696	698	699	700	699	691	679	666	660	662	667	675	684	
Mean **	676	674	676	675	673	683	687	680	662	659	656	652	645	644	647	659	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
MARCH														
										h m	h m	$\gamma$		
663	643	641	645	678	687	669	665	651	21 15	702	15 17	598	104	1 **
653	663	680	666	698	653	654	664	657	20 32	744	12 01	613	131	2
655	670	664	675	682	695	666	684	668	21 16	725	16 30	640	85	3
655	663	685	665	663	665	677	676	664	18 40	703	12 01	632	71	4
663	671	666	669	699	680	681	678	671	20 25	715	11 28	648	67	5
669	675	686	692	691	691	689	688	678	01 51	699	12 19	660	39	6
668	668	665	674	675	662	668	672	674	06 53	688	18 22	655	33	7
674	677	688	693	692	692	685	679	674	02 03	717	12 03	642	75	8
665	671	682	692	697	697	695	694	674	20 50	698	12 28	643	55	9 *
685	692	700	702	703	704	705	704	686	22 29	710	11 30	642	68	10 *
692	697	702	707	706	710	707	708	696	19 18	715	13 02	662	53	11 *
664	666	684	679	693	697	697	695	682	05 49	723	13 08	631	92	12
675	676	688	695	700	693	688	690	683	07 32	708	13 29	635	73	13
682	684	688	692	695	697	697	703	686	07 33	712	11 46	644	68	14
678	685	693	698	700	699	700	703	689	23 25	711	12 12	662	49	15
687	690	696	702	706	708	706	703	693	21 42	712	12 09	671	41	16 *
686	688	691	697	697	701	703	700	689	01 11	713	12 20	654	59	17
693	687	692	697	700	704	723	706	695	22 08	738	10 51	679	59	18
685	692	700	702	702	703	704	704	698	02 48	712	10 39	674	38	19
689	694	695	700	698	702	704	705	694	03 11	714	13 40	670	44	20
686	681	694	700	697	700	698	698	692	02 05	711	09 56	662	49	21
688	696	698	703	705	707	708	712	694	22 33	722	14 16	671	51	22 *
688	682	704	708	706	706	698	698	696	03 18	735	12 42	660	75	23
688	697	695	690	698	704	710	710	685	23 12	715	11 25	623	92	24
671	690	699	690	668	677	685	676	683	04 08	740	10 51	627	113	25
626	648	652	663	662	654	638	604	651	13 39	724	14 49	545	179	26 **
742	682	580	540	579	565	504	608	597	16 31	805†	07 34	466†	339	27 **
599	640	650	625	600	603	650	586	615	18 18	698	22 58	506	192	28 **
720	640	631	643	668	640	650	652	634	16 18	744	10 47	560	184	29 **
663	660	671	671	677	680	681	672	653	21 07	691	09 28	593	98	30
665	678	683	706	672	670	693	668	663	19 13	729	12 07	615	114	31
675	676	679	680	684	682	682	681	673	-	718	-	628	90.0	Mean
683	689	696	701	703	705	704	704	689	-	711	-	658	53.6	Mean *
670	651	631	623	637	630	622	623	630	-	735	-	535	199.6	Mean **
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
APRIL														
										h m	h m	$\gamma$		
668	674	675	674	673	674	676	676	663	02 06	693	12 13	620	73	1
682	689	686	684	687	682	670	670	672	19 58	699	10 36	641	58	2
683	675	680	685	687	692	694	688	674	22 02	702	11 47	627	75	3
686	689	700	698	699	692	688	683	676	18 49	703	10 52	633	70	4
686	692	692	695	699	700	701	700	683	22 00	702	10 49	635	67	5 *
698	694	697	697	694	689	691	696	690	18 09	707	10 18	659	48	6
689	688	692	705	709	700	693	682	686	20 09	723	12 17	643	80	7
675	693	682	691	691	688	653	644	668	06 24	708	13 24	603	105	8
656	665	682	695	714	717	707	698	662	21 12	746	09 42	611	135	9 **
687	642	625	637	639	641	647	651	656	16 27	749	08 14	502†	247	10 **
670	678	699	705	695	683	687	695	659	22 58	749	10 50	610	139	11
673	682	688	689	692	694	685	685	671	06 46	702	11 55	620	82	12
688	694	688	693	701	701	701	704	680	20 50	713	12 14	623	90	13
696	707	708	711	711	700	694	694	690	20 42	718	11 19	650	68	14
685	690	701	692	700	698	700	701	684	01 21	709	11 38	641	68	15
699	701	700	703	702	700	699	699	696	07 08	716	11 35	649	67	16
694	701	709	705	703	703	708	708	692	19 11	714	11 38	646	68	17
686	701	703	708	705	705	705	705	688	18 55	713	12 30	638	55	18 *
694	710	709	707	707	710	708	700	696	22 23	716	13 38	663	53	19 *
704	712	710	708	709	710	710	709	699	23 59	715	13 22	669	46	20 *
687	700	705	704	701	700	700	701	689	01 32	720	12 00	646	74	21
699	700	704	707	707	708	707	704	691	21 03	711	11 23	643	68	22 *
725	747	736	712	652	646	645	638	694	17 27	760†	20 41	609	151	23 **
661	657	670	674	682	677	686	677	655	22 19	697	13 21	621	76	24 **
705	703	695	704	695	698	701	679	672	17 40	717	10 43	613	104	25
693	702	712	693	689	681	689	684	674	02 42	721	12 25	630	91	26
672	697	697	692	696	692	701	694	679	22 22	715	13 14	638	77	27
684	697	708	704	700	690	686	690	681	22 58	730	11 11	645	85	28
697	710	695	675	673	677	684	678	679	17 48	735	14 53	628	107	29 **
719	713	731	708	680	673	672	676	677	18 46	748	11 50	624	124	30
688	693	696	695	693	691	690	687	679	-	718	-	630	88.4	Mean
694	703	704	705	705	707	706	704	691	-	711	-	654	57.8	Mean *
685	684	682	679	672	672	674	668	669	-	737	-	594	143.2	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	680	675	677	678	677	699	698	692	681	667	653	641	637	637	652	659	
2	688	688	687	684	686	687	688	691	683	670	655	651	653	658	662	673	
3	700	702	703	704	706	706	702	692	685	681	676	674	667	670	681	693	
4	707	696	705	705	705	708	708	700	696	683	689	691	690	693	703	700	
5	684	662	678	670	663	668	675	679	678	662	637	640	650	656	675	677	
6 *	692	692	691	694	696	697	694	687	678	668	662	656	656	665	672	679	
7	703	702	699	696	701	703	702	695	688	679	667	663	662	672	682	695	
8 **	736	712	708	713	708	734	723	683	662	644	624	631	645	639	665	682	
9	696	702	715	702	702	702	693	681	667	654	643	639	635	653	675	667	
10	712	702	701	701	701	702	686	676	672	663	653	664	665	663	666	687	
11	713	708	693	699	700	703	695	686	679	669	656	655	649	663	670	683	
12 **	771	755	717	711	705	689	701	660	644	659	660	642	629	655	679	695	
13	669	667	666	660	661	670	670	659	635	630	633	627	628	616	620	640	
14 *	680	680	678	675	675	681	683	679	670	660	653	645	633	646	649	672	
15 **	689	692	687	682	683	686	683	680	676	672	682	656	663	674	635	655	
16 **	660	671	666	674	691	683	632	653	651	644	631	619	617	625	636	658	
17	681	683	683	685	688	692	688	675	662	645	641	643	639	661	674	696	
18	703	712	701	708	702	696	700	678	670	650	646	651	650	654	655	676	
19	687	688	696	688	692	686	683	673	657	637	624	627	640	646	660	669	
20	697	704	695	692	689	683	675	665	662	665	679	685	687	685	690	692	
21	693	690	695	694	686	682	678	673	667	662	667	674	682	680	691	697	
22	695	698	708	689	688	682	672	661	660	668	679	671	685	694	694	682	
23	697	684	681	692	689	682	676	663	657	656	663	676	684	683	687	689	
24 **	705	720	701	696	696	690	669	671	658	654	634	635	663	672	648	693	
25	663	666	683	676	681	674	660	658	651	642	642	626	622	625	642	654	
26	700	684	682	683	683	687	681	675	671	668	653	654	660	663	674	687	
27 *	699	701	693	691	694	692	685	677	672	667	667	673	677	685	690	697	
28 *	701	702	701	704	704	699	695	694	694	694	694	688	682	692	709	716	
29 *	711	708	707	709	710	710	709	704	696	691	687	683	681	684	689	699	
30	713	719	720	720	719	716	706	693	684	677	682	700	706	704	697	706	
31	727	722	724	724	721	728	720	708	694	684	678	683	699	720	697	696	
Mean	698	696	695	694	694	694	688	679	671	663	658	657	659	666	672	683	
Mean *	697	697	694	695	696	696	693	688	682	676	673	669	666	674	682	693	
Mean **	712	710	696	695	697	696	682	669	658	655	646	637	643	653	653	677	
JUNE	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	691	688	689	692	692	695	692	682	671	669	674	681	681	679	685	701	
2	702	707	702	701	704	693	687	686	685	692	692	689	692	674	680	714	
3	712	700	704	682	677	684	684	672	664	654	650	634	642	669	692	691	
4 **	708	717	704	694	698	688	675	693	691	678	669	660	673	677	689	698	
5	682	691	692	701	709	708	687	672	665	658	666	675	671	687	681	702	
6	709	706	705	708	707	707	703	700	686	680	663	667	678	679	682	709	
7	708	702	701	707	710	713	703	687	676	674	675	679	687	689	706	706	
8	714	711	707	708	710	712	712	697	682	688	690	689	684	690	699	715	
9	721	720	718	716	714	714	722	720	692	660	652	661	648	647	674	684	
10	711	718	708	688	704	701	693	679	669	659	659	661	663	682	691	701	
11	712	711	706	704	705	701	695	694	691	693	688	698	672	685	722	696	
12 *	701	701	697	697	697	691	683	678	675	672	671	671	672	674	685	697	
13 *	709	709	706	707	707	704	693	683	671	658	654	659	668	671	680	699	
14	715	712	712	712	712	709	704	695	687	676	670	678	681	669	682	687	
15	713	715	714	713	712	702	682	666	671	672	681	681	670	677	691	701	
16 *	714	713	714	713	714	712	702	684	673	672	676	683	687	677	677	684	
17 *	705	705	706	708	709	704	700	692	681	673	673	677	685	699	714	733	
18	708	707	712	708	720	714	704	689	677	678	681	686	680	673	689	704	
19	717	716	716	712	715	698	696	689	682	670	666	665	683	690	709	720	
20	726	726	717	712	712	711	708	698	690	680	670	665	669	680	699	710	
21	710	715	712	711	711	707	695	688	683	678	679	681	691	692	698	714	
22	715	711	714	718	719	712	702	685	674	673	667	667	679	674	692	710	
23	731	722	717	712	714	714	710	702	690	680	675	674	679	684	693	727	
24	717	717	734	700	673	681	671	658	650	637	631	631	634	643	656	669	
25 *	707	697	694	698	698	697	690	676	662	652	651	655	656	666	678	688	
26	716	712	707	712	714	713	710	685	654	650	643	643	642	645	654	672	
27 **	697	699	698	701	701	696	689	686	682	684	683	690	705	692	747	700	
28 **	687	698	682	691	705	699	682	653	638	636	631	631	626	644	676	704	
29 **	703	695	700	702	710	705	681	663	641	634	604	640	664	673	640	669	
30 **	668	695	677	679	683	681	662	651	627	601	615	609	633	674	701	668	
Mean	708	708	706	704	705	702	694	683	673	666	663	666	670	675	689	699	
Mean *	707	705	703	705	705	702	694	683	672	665	665	669	674	677	687	700	
Mean **	693	701	692	693	699	694	678	669	656	647	640	646	660	672	691	688	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
679	679	687	691	697	695	684	688	675	05 42	701	12 41	629	72	1
685	690	695	702	712	709	704	702	683	20 09	717	11 45	648	69	2
695	702	713	711	718	708	718	733	698	23 01	765	12 24	662	103	3
694	705	715	706	722	735	709	710	703	21 52	755	09 40	678	77	4
686	698	701	694	693	694	695	693	675	00 04	729	11 50	628	101	5
695	705	710	710	708	707	705	704	688	18 47	714	11 56	649	65	6 *
703	709	711	719	720	723	727	743	699	23 48	752	12 02	658	94	7
693	691	703	711	708	708	707	705	689	05 25	748	11 16	618	130	8 **
691	720	712	715	718	715	715	716	689	17 23	739	11 37	621	118	9
703	725	715	716	707	709	709	707	692	17 40	749	10 28	648	101	10
710	730	742	728	728	722	719	754	698	23 42	820	12 32	637	183	11
868	740	679	668	667	664	688	668	692	16 43	958†	15 33	602†	356	12 **
657	682	691	696	705	713	693	681	661	21 22	721	13 36	609	112	13
683	688	692	688	688	690	692	690	674	22 24	695	12 35	630	65	14 *
676	743	745	728	698	686	675	665	684	18 01	798	14 29	628	170	15 **
671	686	689	695	696	696	713	684	664	22 33	729	06 39	608	121	16 **
706	702	703	704	703	699	702	707	682	16 12	728	12 19	629	99	17
705	715	733	712	698	703	692	690	688	18 28	740	10 39	641	99	18
669	688	707	721	710	710	698	695	677	19 49	727	10 30	619	108	19
707	712	725	716	712	702	701	695	692	18 39	729	08 08	658	71	20
718	727	724	718	705	713	707	692	692	17 33	735	09 42	653	82	21
691	726	720	712	707	712	703	702	692	17 23	730	08 12	655	75	22
698	715	714	711	709	707	705	706	689	20 08	720	09 39	650	70	23
681	675	692	697	716	728	707	656	682	21 41	782	10 55	607	175	24 **
682	711	704	706	707	696	692	682	669	17 56	718	12 34	610	108	25
704	715	711	712	711	707	704	699	686	19 48	723	10 39	648	75	26
701	704	707	708	707	708	707	702	692	19 01	710	09 30	666	44	27 *
717	719	712	716	719	721	717	714	704	21 39	727	12 44	678	49	28 *
714	719	723	721	720	718	718	708	705	18 59	727	12 31	678	49	29 *
720	721	721	727	725	722	722	725	710	20 03	735	14 18	667	68	30
706	725	733	725	711	694	700	716	710	18 24	743	11 39	676	67	31
700	709	711	709	708	707	704	701	688	-	744	-	642	102.5	Mean
702	707	709	709	708	709	708	704	693	-	715	-	660	54.4	Mean *
718	707	702	700	697	696	698	676	682	-	803	-	613	190.4	Mean **

18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
720	719	719	714	719	717	713	706	695	18 02	731	09 14	666	65	1
712	735	734	722	714	706	707	713	702	18 25	758	14 09	666	92	2
711	712	712	713	712	701	698	705	686	16 20	728	12 01	621	107	3
711	707	716	726	738	708	716	708	698	20 32	747	11 24	647	100	4 **
699	697	707	710	709	707	712	708	692	19 03	718	09 35	651	67	5
712	733	708	722	719	722	713	715	701	17 23	746	10 31	653	93	6
710	720	732	721	724	715	716	714	703	18 33	740	10 29	669	71	7
714	717	734	722	722	719	717	713	707	18 14	747	08 39	677	70	8
696	713	723	720	717	718	715	711	699	00 20	736	12 40	638	98	9
713	715	716	712	713	707	708	712	695	01 24	729	09 37	651	78	10
717	681	696	711	714	712	706	701	700	14 52	789	12 29	653	136	11
704	724	722	711	717	708	709	709	694	17 44	745	11 39	668	77	12 *
713	717	716	715	717	715	714	714	696	20 19	719	10 28	651	68	13 *
707	711	715	718	720	724	726	715	702	22 09	734	13 15	658	76	14
708	714	717	720	721	714	714	712	699	20 02	727	07 44	664	63	15
695	709	716	722	728	720	711	704	700	20 43	737	09 12	670	67	16 *
738	738	740	726	741	733	724	714	709	20 29	751	09 58	669	82	17 **
720	731	735	730	725	716	713	716	705	18 24	738	13 36	660	78	18
727	736	731	721	726	718	719	717	706	17 41	739	11 37	657	82	19
712	722	740	728	728	721	722	716	707	18 30	748	11 35	661	87	20
715	737	736	732	729	721	719	714	707	18 06	756	10 31	675	81	21
718	737	759	751	744	735	734	734	709	19 02	768	10 50	649	119	22
745	755	761	742	732	712	695	696	711	18 10	769	10 45	668	101	23
683	696	729	732	715	713	707	712	683	02 28	754	10 57	627	127	24
701	712	730	735	738	728	732	737	695	23 26	747	09 49	646	101	25 *
694	711	719	710	708	706	702	699	688	00 00	728	12 19	636	92	26
760	762	701	705	720	721	705	689	705	17 22	795†	13 52	648	147	27 **
723	720	698	710	702	683	689	702	680	17 26	736	12 44	617	119	28 **
696	699	706	706	711	701	681	670	679	21 18	735	10 19	575†	160	29 **
673	699	691	693	691	682	683	684	668	01 31	715	09 18	579	136	30 **
712	719	722	720	720	713	711	709	697	-	744	-	649	94.7	Mean
710	720	725	722	728	721	718	716	699	-	740	-	661	79.0	Mean *
713	717	702	708	712	699	695	691	686	-	746	-	613	132.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	677	674	676	677	680	677	668	653	643	643	642	641	643	653	667	674	
2	691	693	712	702	690	683	666	668	663	663	652	647	638	641	655	673	
3 *	696	697	705	703	703	701	694	682	665	649	653	659	667	685	701	705	
4	712	714	716	717	719	716	708	697	684	665	645	657	668	675	702	731	
5	711	711	713	718	716	724	713	703	700	686	677	681	668	671	687	703	
6	708	709	711	713	711	712	703	698	682	670	662	663	679	686	673	708	
7	713	715	714	715	713	713	711	698	671	654	661	663	673	670	674	684	
8	710	709	711	718	719	712	707	699	675	672	681	680	688	673	685	684	
9	704	703	703	708	703	709	686	699	697	677	666	673	661	658	677	702	
10	713	711	707	720	721	733	721	697	695	683	664	650	644	652	670	688	
11	710	716	713	707	700	692	700	691	675	659	654	658	654	654	684	703	
12	722	674	693	698	696	700	696	683	670	664	660	651	639	646	660	676	
13 *	691	690	690	682	687	687	681	678	667	672	674	680	663	658	672	683	
14	700	700	703	706	695	691	697	678	650	651	647	638	643	670	673	681	
15 **	710	712	704	703	669	674	678	684	399	419	539	578	619	627	665	926	
16 **	536	547	554	548	569	575	565	552	550	555	564	586	597	618	627	667	
17 **	652	647	649	648	641	647	624	617	615	597	607	612	618	629	654	674	
18 **	657	669	628	637	590	556	540	529	546	557	578	593	605	610	634	689	
19	648	642	661	663	650	641	631	620	605	600	605	628	639	639	674	704	
20	677	673	674	680	683	675	660	642	626	621	617	624	644	653	664	683	
21	693	680	678	673	671	681	671	660	651	641	632	631	633	656	665	685	
22	701	700	694	692	686	686	673	664	661	646	634	643	653	667	681	686	
23	697	695	693	687	681	674	678	683	671	655	640	640	640	631	655	678	
24	711	713	695	695	696	690	683	683	683	680	683	690	680	700	697	714	
25 **	687	702	701	687	680	669	670	659	630	609	633	645	650	653	661	681	
26	687	681	690	679	680	673	669	649	632	628	629	633	639	669	672	695	
27	682	676	677	676	680	672	664	651	642	630	628	630	640	653	667	688	
28	690	699	695	687	680	678	660	650	646	649	650	642	662	662	659	673	
29 *	692	692	695	687	694	689	679	680	669	663	659	659	662	685	689	690	
30 *	695	691	692	696	696	684	689	680	669	659	656	660	674	674	678	686	
31	712	714	718	715	696	706	705	695	688	678	661	661	677	664	676	684	
Mean	690	689	689	688	684	682	674	665	646	639	640	645	650	657	671	697	
Mean *	690	689	692	689	692	690	682	675	663	657	657	660	662	671	681	688	
Mean **	648	655	647	645	630	624	615	608	548	547	584	603	618	627	648	727	
AUGUST																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	709	713	707	702	698	711	706	675	685	683	665	657	656	661	663	695	
2	707	690	705	706	685	677	685	681	672	659	649	652	662	664	671	682	
3	702	718	708	709	699	691	691	653	673	676	666	652	624	636	651	662	
4	694	694	692	686	688	692	691	681	672	652	628	653	644	658	671	666	
5	688	689	695	695	694	689	675	665	658	660	664	668	668	669	683	684	
6	691	692	693	691	698	698	688	681	671	661	678	674	651	661	658	676	
7	695	691	694	697	708	698	689	678	668	657	651	642	648	662	671	689	
8	701	700	697	698	698	692	681	671	666	659	654	671	670	681	696	698	
9	689	692	707	694	697	693	681	655	636	636	633	621	644	659	669	678	
10	690	689	693	691	686	687	673	660	649	641	638	641	651	655	653	661	
11	709	706	699	699	692	689	680	670	664	662	669	680	678	681	691	697	
12 *	708	709	708	702	699	698	693	691	689	689	686	679	673	676	689	702	
13 *	702	701	702	701	705	704	702	696	688	678	670	670	678	683	690	689	
14 *	704	707	711	710	707	701	699	691	683	677	674	675	677	681	677	687	
15	706	710	712	716	710	710	708	703	692	672	677	683	695	695	705	688	
16 **	707	699	693	700	717	698	668	653	665	653	687	627	676	677	637	645	
17 **	570	583	661	611	656	567	547	540	522	518	502	530	564	608	602	622	
18	658	659	657	642	661	671	640	628	632	635	608	593	610	645	636	648	
19	679	678	692	676	682	684	670	656	641	620	616	627	636	645	651	667	
20 **	693	696	685	681	717	741	716	720	695	683	674	662	664	670	672	682	
21 **	726	684	682	692	692	680	667	666	662	637	639	636	632	643	647	656	
22	692	696	681	676	679	676	667	672	665	646	630	632	642	658	668	675	
23 **	697	703	705	694	683	692	694	677	661	645	636	642	629	653	667	666	
24	710	699	694	686	684	691	684	671	636	626	622	635	647	652	665	667	
25	701	707	698	700	691	681	679	672	662	644	631	634	643	656	675	697	
26	702	697	694	693	693	686	679	662	652	653	646	654	666	679	689	692	
27 *	714	717	704	695	694	692	681	667	655	646	652	661	676	683	684	686	
28 *	701	701	699	699	696	692	685	682	676	669	663	659	664	682	690	690	
29	721	716	711	705	705	702	704	697	687	682	668	665	681	670	669	691	
30	706	705	700	696	686	685	675	667	654	647	649	649	652	657	675	688	
31	703	703	702	702	700	699	689	676	658	650	648	640	650	646	657	673	
Mean	696	695	696	692	693	689	680	670	661	652	648	647	653	663	668	677	
Mean *	706	707	705	701	700	697	692	685	678	672	669	669	674	681	686	691	
Mean **	679	673	685	676	693	676	658	651	641	627	628	619	633	650	645	654	

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
691	698	711	709	707	705	709	705	676	22 38	715	10 55	637	78	1 *
673	693	704	705	701	697	696	695	679	02 29	721	12 57	637	84	2
715	717	719	719	715	715	714	713	696	19 08	727	09 42	647	80	3 *
702	718	758	760	761	731	723	724	708	20 46	779	10 32	640	139	4
720	716	719	710	723	719	716	712	705	20 09	734	12 54	656	78	5
726	719	722	713	719	720	716	713	702	19 49	735	10 58	658	77	6
692	704	710	721	715	712	711	710	697	19 16	725	09 03	643	82	7
702	721	723	723	714	711	713	712	702	18 09	737	08 31	666	71	8
727	693	704	713	724	711	711	716	697	16 41	739	12 38	652	87	9
706	721	723	720	713	713	712	710	699	05 37	738	12 55	643	95	10
765	760	809	767	763	779	780	768	715	16 27	874	10 26	648	226	11
693	701	705	703	703	703	703	701	685	00 23	756	12 59	623	133	12
694	696	703	706	712	709	710	696	687	20 54	717	13 11	647	70	13 *
693	720	706	696	702	703	701	700	685	17 52	726	11 35	634	92	14
1360	1025	675	665	647	598	541	525	681	16 47	1601†	08 52	-82†	1683	15 **
655	659	681	705	662	662	678	686	608	19 14	732	00 35	503	229	16 **
760	874	887	897	806	732	668	695	685	16 45	1015	23 09	570	445	17 **
693	682	700	696	685	673	673	653	628	15 57	819	05 03	505	314	18 **
720	713	716	693	696	697	688	681	661	16 42	749	10 12	582	167	19
710	711	712	718	705	703	709	720	674	23 21	736	09 47	607	129	20
692	722	713	711	711	708	700	702	678	21 00	727	11 32	622	105	21
693	701	704	713	710	720	740	703	685	22 10	750	10 48	628	122	22
695	701	708	713	707	690	693	696	679	19 27	718	13 03	621	97	23
715	743	740	734	701	718	713	693	702	18 09	767	10 56	666	101	24
687	720	752	740	707	693	700	697	680	18 39	784	09 17	594	190	25 **
721	754	735	720	719	687	683	690	680	17 30	796	10 54	613	183	26
700	717	710	712	719	712	692	687	675	20 49	747	09 33	614	133	27
681	700	709	706	706	702	698	695	678	18 02	715	11 34	634	81	28
700	702	711	700	699	698	699	694	687	18 22	716	11 50	655	61	29 *
691	701	705	703	709	716	714	711	689	21 11	718	10 18	653	65	30 *
688	699	695	705	712	720	705	699	695	21 39	727	13 38	654	73	31
725	726	722	719	712	705	700	697	684	-	782	-	602	179.7	Mean
698	703	710	707	708	709	709	704	687	-	719	-	648	70.8	Mean *
831	792	739	741	701	672	652	651	656	-	990	-	418	572.2	Mean **
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
708	718	714	712	713	713	712	711	695	00 51	733	12 02	639	94	1
679	696	694	713	711	706	706	706	686	18 17	720	10 32	643	177	2
691	705	709	719	709	701	697	695	685	01 32	727	12 27	614	113	3
696	709	714	718	711	707	700	690	684	18 51	725	09 58	621	104	4
689	713	706	717	711	708	701	694	687	17 37	727	08 43	656	71	5
703	741	692	688	708	706	701	703	688	17 42	755	12 16	636	119	6
710	699	698	701	715	706	708	704	687	20 25	724	11 48	637	87	7
697	703	707	709	708	708	719	699	691	22 37	731	10 26	650	81	8
691	728	721	698	687	680	688	692	678	17 47	739	11 13	615	124	9
688	686	711	706	697	702	707	709	678	18 21	716	10 14	634	82	10
689	693	703	704	701	704	701	704	690	00 29	715	09 22	659	56	11
719	711	710	710	709	709	708	708	699	16 42	722	12 38	668	54	12 *
690	703	709	720	717	708	709	707	697	19 47	729	11 07	664	65	13 *
691	704	718	709	717	713	711	710	697	18 29	730	10 35	671	59	14 *
693	710	728	729	729	726	711	703	705	21 59	774	15 41	662	112	15
720	685	662	662	638	638	627	618	669	16 39	798†	24 00	574	224	16 **
677	710	657	661	668	680	659	660	607	17 36	767	10 17	492†	275	17 **
661	703	701	688	689	685	687	688	655	18 41	727	11 33	588	139	18
676	697	714	695	702	694	693	691	670	18 13	726	09 58	610	116	19
696	703	702	709	711	706	697	701	695	20 49	764	12 03	642	122	20 **
688	695	736	713	713	703	694	686	678	18 23	764	09 45	608	156	21 **
707	791	696	708	733	721	694	687	679	20 53	763	10 53	623	140	22
697	715	702	700	706	702	712	701	682	16 50	743	12 34	612	131	23 **
691	699	709	708	706	703	701	695	678	00 05	727	09 30	614	113	24
698	690	704	703	703	709	709	709	683	23 23	721	10 07	626	95	25
695	699	702	708	708	704	702	704	686	00 11	712	10 38	643	69	26
692	695	701	702	704	704	702	701	688	01 26	721	09 48	644	77	27 *
696	702	704	709	712	713	713	714	692	23 59	725	12 04	657	68	28 *
691	694	710	721	733	727	723	721	700	20 26	741	11 21	659	82	29
686	689	691	706	706	704	700	702	682	00 00	712	09 15	641	71	30
679	695	706	709	704	702	698	689	682	19 18	716	11 57	637	79	31
693	703	704	705	706	703	700	697	683	-	735	-	630	105.0	Mean
698	703	709	710	712	709	709	708	695	-	725	-	661	64.6	Mean *
696	702	692	689	687	686	678	673	666	-	767	-	586	181.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
SEPTEMBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	684	700	696	687	689	693	679	676	666	651	636	630	647	642	642	674	
2	704	701	688	679	680	697	684	665	632	613	619	639	637	637	641	661	
3	695	692	687	682	685	692	693	680	666	641	640	644	650	669	684	687	
4 **	645	662	664	624	657	653	658	629	605	597	620	624	622	644	659	639	
5	657	659	651	659	667	667	653	642	637	619	627	630	635	627	640	657	
6	668	634	654	656	666	667	663	651	636	627	622	625	634	649	661	669	
7 *	692	687	683	679	677	676	673	663	651	639	629	636	649	659	681	688	
8 *	697	699	693	692	693	693	686	673	667	654	656	656	655	659	669	674	
9 *	702	696	694	693	694	692	686	673	659	651	646	651	660	675	681	686	
10 *	706	704	703	698	697	697	694	686	678	676	673	676	681	696	700	703	
11	704	700	701	708	709	706	702	690	679	669	661	669	656	670	680	686	
12	724	691	684	702	692	694	689	680	670	665	656	657	666	677	686	686	
13	716	707	699	698	698	695	688	680	675	672	675	676	678	681	686	686	
14	675	691	702	696	701	688	688	673	671	673	661	657	650	668	657	663	
15	698	703	707	702	700	700	693	683	676	679	679	674	666	675	682	686	
16	704	710	696	691	678	685	682	675	666	659	654	653	658	665	673	660	
17	708	707	711	705	700	698	698	698	695	681	670	671	663	674	688	668	
18	701	712	705	700	695	690	688	676	667	656	650	667	676	675	678	674	
19	692	666	676	687	681	698	677	665	653	648	654	681	672	685	686	686	
20 **	715	708	730	713	705	711	710	692	668	664	650	621	629	647	646	648	
21 **	640	666	675	689	674	673	695	660	624	621	616	606	608	623	651	678	
22 **	699	681	676	674	666	650	636	608	609	603	592	608	611	625	634	655	
23	693	683	682	683	679	684	687	677	653	654	646	641	660	661	670	665	
24	665	669	668	685	674	673	679	679	656	648	643	644	642	630	617	649	
25 **	687	679	680	684	694	694	685	676	654	645	639	634	632	650	642	652	
26	669	670	691	683	676	677	681	670	660	656	652	645	635	651	653	662	
27	687	684	683	682	684	698	692	689	682	671	648	645	643	650	649	642	
28	687	695	680	677	685	689	692	699	683	675	675	669	671	663	656	659	
29 *	683	683	689	689	690	690	689	688	683	667	665	665	664	663	667	663	
30	694	694	697	698	699	704	704	705	694	684	658	651	664	669	664	661	
Mean	690	688	688	687	686	687	684	673	660	652	647	648	650	659	664	669	
Mean *	696	694	692	690	690	690	686	677	668	657	654	657	662	670	680	683	
Mean **	677	679	685	677	679	676	677	653	632	626	623	619	620	638	646	654	
OCTOBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	701	703	701	703	714	684	684	662	689	673	634	615	622	636	650	632	
2	683	684	683	681	690	727	712	705	675	666	659	649	652	657	662	675	
3 **	696	691	691	694	694	689	689	674	665	665	668	669	665	668	670	665	
4 **	647	638	662	647	657	685	675	665	632	639	644	635	630	642	645	647	
5	673	675	693	690	685	684	683	680	672	659	648	648	647	650	655	660	
6 **	675	672	662	648	665	688	685	664	663	631	622	623	618	626	630	637	
7	682	683	684	684	693	680	680	682	674	661	648	645	649	649	663	672	
8	687	688	685	692	689	697	695	696	687	673	653	656	655	656	662	666	
9	699	709	699	697	698	703	704	701	693	682	669	664	665	667	676	680	
10 *	700	699	699	700	698	701	704	701	694	682	669	665	669	674	684	688	
11 *	711	706	705	705	705	705	706	709	706	698	684	672	672	679	686	694	
12 *	706	705	705	705	707	708	708	705	700	694	687	686	690	694	699	700	
13	706	706	707	709	708	707	707	711	708	699	688	692	694	693	690	695	
14	712	710	707	708	710	711	710	712	714	704	693	675	683	679	684	688	
15	708	700	695	698	709	708	702	697	693	687	684	678	675	674	682	678	
16 *	698	696	697	697	699	699	700	701	697	690	687	688	687	689	693	697	
17	713	713	710	711	711	715	718	719	714	705	685	682	678	682	691	691	
18	707	704	698	689	699	690	693	696	684	661	638	651	656	653	654	663	
19	687	690	687	685	676	688	696	693	683	673	653	655	654	655	666	678	
20	716	693	696	698	700	706	704	698	698	684	667	658	660	664	672	677	
21	704	703	702	703	703	706	707	703	694	685	672	666	667	676	692	697	
22	704	716	706	711	713	717	706	700	699	679	663	656	653	653	657	652	
23	688	706	706	692	688	684	688	701	687	674	654	658	666	667	672	674	
24	699	700	700	700	700	700	703	703	693	688	676	673	673	674	683	691	
25	703	716	706	707	714	709	707	691	693	679	656	653	652	659	663	666	
26	673	687	687	692	699	710	709	702	684	668	663	658	662	655	646	649	
27	685	686	688	694	698	690	704	700	675	664	654	644	647	646	653	663	
28 *	701	699	700	703	707	710	712	713	703	693	683	678	682	688	696	698	
29	706	708	708	708	709	711	714	718	712	697	687	686	688	689	691	693	
30	723	728	729	703	714	720	718	713	708	707	700	691	693	687	688	694	
31 **	674	680	681	692	699	706	708	708	700	678	663	644	633	643	646	645	
Mean	696	697	696	695	698	701	701	698	690	679	666	662	662	665	671	674	
Mean *	703	701	701	702	703	705	706	706	700	691	682	678	680	685	692	695	
Mean **	679	677	679	677	686	690	688	675	670	657	646	637	634	643	648	645	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date
18000 γ + Tabular Quantities (in γ)													
										h m	h m	γ	
685	688	692	689	692	695	693	696	676	01 20	714	11 54	628	86
672	674	688	690	680	676	670	673	667	01 57	713	09 15	608	105
688	696	699	687	699	696	700	587	677	22 02	771	23 50	551†	220
646	627	657	657	648	652	666	677	643	22 05	696	03 39	561	135
676	679	689	690	704	719	719	671	661	21 53	744	13 34	612	132
675	680	688	695	697	699	697	696	663	21 18	700	10 16	615	85
699	689	693	699	701	702	700	699	677	16 49	717	10 18	627	90
681	704	701	701	703	698	698	717	684	23 19	728	09 53	643	85
685	690	699	708	705	704	705	708	685	22 59	713	10 17	643	70
704	713	714	711	713	716	717	707	698	22 24	728	10 33	670	58
693	693	705	713	710	714	716	718	694	23 53	730	12 39	646	84
683	696	706	703	706	707	706	708	689	00 24	737	10 23	649	88
695	705	708	709	710	716	758	687	696	22 08	783†	24 00	668	115
684	692	696	705	709	710	704	702	684	21 16	714	12 23	642	72
700	688	703	709	713	723	701	698	693	21 39	731	12 05	661	70
675	688	695	709	718	706	704	706	684	19 56	730	10 57	650	80
686	705	715	715	706	673	689	697	693	19 48	729	15 44	652	77
691	705	690	689	700	713	733	728	690	23 56	756	10 28	633	123
688	691	696	703	705	708	715	716	685	00 00	752	09 16	642	110
650	653	635	661	713	659	673	660	673	20 17	753	11 58	603	150
646	695	679	679	673	685	673	684	659	17 13	739	12 08	592	147
651	667	689	695	686	675	684	693	653	00 35	728	08 55	558	170
658	678	681	668	660	671	652	676	669	21 40	710	11 23	633	77
656	674	677	678	677	678	682	691	664	20 46	698	14 27	612	86
683	674	662	651	654	680	676	675	666	04 51	708	12 11	624	84
667	669	679	686	687	678	689	707	671	23 02	732	12 23	618	114
655	672	684	684	690	687	687	685	674	19 59	711	15 15	631	80
674	689	664	680	690	693	693	690	680	01 44	711	14 52	647	64
675	684	695	700	699	697	699	696	683	22 50	709	09 43	653	56
664	677	696	687	684	684	688	684	684	07 19	711	11 38	648	63
676	684	689	692	694	694	696	691	677	-	727	-	627	99.2
689	696	700	704	704	703	704	705	685	-	719	-	647	71.8
655	663	664	669	675	670	674	678	659	-	725	-	588	137.2
18000 γ + Tabular Quantities (in γ)													
										h m	h m	γ	
651	662	664	669	664	674	674	683	669	04 19	736	11 58	611	125
690	694	707	705	706	704	695	696	686	05 37	734	12 05	641	93
673	668	655	655	655	629	639	663	670	22 58	742	22 13	591†	151
655	655	676	677	662	660	674	669	655	19 01	696	13 01	601	95
653	655	645	667	689	672	681	688	669	20 57	781†	18 01	631	150
644	660	665	672	692	704	674	678	658	20 36	724	12 46	605	119
680	687	694	695	697	737	723	692	681	21 28	758	11 00	631	127
678	685	695	700	701	701	698	701	683	23 27	705	10 17	650	55
684	696	700	692	700	702	702	702	691	01 33	714	11 50	661	53
692	700	705	701	705	707	707	708	694	18 00	714	11 32	664	50
699	703	708	708	710	709	709	706	700	20 37	722	12 03	670	52
704	699	704	700	690	698	704	707	700	00 35	710	20 50	681	29
704	710	717	717	715	716	715	712	705	19 09	721	10 45	686	35
694	704	696	692	692	701	712	710	700	22 08	721	11 40	664	57
694	705	709	704	726	722	696	695	697	20 44	746	12 58	664	82
697	699	706	707	708	713	711	712	699	21 50	713	10 12	685	28
699	707	704	706	704	700	699	700	702	07 00	728	12 03	669	59
666	678	689	694	704	699	694	689	681	04 15	720	10 22	628	92
686	693	694	703	704	704	706	714	684	24 00	745	10 52	649	96
684	693	698	700	703	705	706	705	691	00 02	747	11 12	656	91
693	694	700	704	703	703	692	702	695	21 36	712	11 47	661	51
664	666	673	674	673	677	683	692	683	01 28	730	15 16	645	85
678	683	689	696	699	700	701	699	685	01 50	725	10 10	650	75
690	697	703	704	703	696	696	701	694	07 08	708	12 59	668	40
658	674	687	693	697	699	709	692	687	04 02	740	13 05	647	93
648	647	670	675	683	706	711	688	678	21 49	730	14 53	612	118
674	682	696	699	701	702	702	697	681	06 43	716	11 51	638	78
698	703	707	708	709	709	709	707	701	07 12	717	11 40	677	40
702	709	712	713	712	710	711	715	705	23 52	747	12 56	681	66
699	708	698	682	668	661	679	663	699	02 10	757	21 49	631	126
648	640	642	676	660	692	645	654	669	21 36	733	20 48	606	127
680	686	691	693	695	697	695	695	687	-	729	-	647	81.9
698	701	706	705	704	707	708	708	699	-	715	-	675	39.8
654	657	660	670	667	672	661	669	664	-	726	-	603	123.4

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>NOVEMBER</b>																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	678	683	677	683	691	715	708	680	656	631	648	636	627	609	622	622	622
2 **	636	672	665	701	697	676	682	662	633	655	656	647	620	622	634	657	657
3 **	676	667	661	662	678	676	665	677	668	652	641	646	642	636	639	644	644
4	672	673	673	675	678	680	685	681	669	658	639	632	628	646	656	652	652
5	679	700	669	662	666	676	681	659	664	667	637	631	637	643	659	664	664
6	699	721	698	682	687	691	683	691	690	674	653	654	652	669	671	667	667
7	694	695	696	696	692	699	697	699	691	679	663	657	634	661	668	670	670
8	702	702	704	708	719	707	700	699	696	680	659	657	637	661	652	668	668
9	698	698	700	706	710	713	712	712	709	703	693	683	682	689	697	697	697
10	697	685	685	687	696	703	705	702	705	707	687	673	667	675	684	692	692
11 *	697	695	695	696	700	703	704	703	700	689	677	671	673	677	683	689	689
12 *	696	696	706	702	702	702	706	712	708	697	682	674	676	683	689	695	695
13	690	692	697	697	702	706	715	717	712	706	692	690	692	699	706	703	703
14	697	716	710	690	687	694	702	700	692	695	689	671	647	663	659	652	652
15 *	698	692	686	686	691	695	697	696	692	682	668	662	665	672	678	683	683
16	699	700	701	702	706	708	710	711	705	691	684	675	671	678	676	673	673
17	692	694	700	693	723	717	706	701	695	684	671	652	644	665	670	674	674
18	692	692	694	698	701	700	706	711	707	698	691	678	674	668	661	675	675
19	693	694	695	697	701	701	705	700	686	676	669	665	658	662	662	666	666
20 *	697	708	698	693	700	701	701	698	692	682	678	675	675	684	690	692	692
21	704	704	705	708	717	709	707	708	700	689	687	676	670	666	661	641	641
22	675	679	687	694	713	710	709	706	689	680	674	669	662	680	682	686	686
23	667	680	672	670	657	662	661	665	671	653	620	621	620	626	622	637	637
24 *	692	692	696	691	688	690	693	693	689	680	672	671	672	675	670	671	671
25	697	696	701	700	702	706	708	711	704	696	691	675	669	668	659	662	662
26	689	691	698	701	704	711	715	707	706	691	665	660	665	681	682	689	689
27	688	682	680	684	689	696	696	694	688	681	679	675	675	684	691	699	699
28 **	700	686	720	736	664	644	670	660	669	647	611	602	645	636	635	642	642
29	654	660	671	673	673	676	679	677	674	664	634	624	636	640	647	652	652
30 **	679	683	685	683	683	686	696	707	690	680	679	664	637	625	628	634	634
Mean	688	691	691	692	694	695	697	695	688	678	666	659	656	661	664	668	668
Mean *	696	697	696	694	696	698	700	700	696	686	675	671	672	678	682	686	686
Mean **	678	678	682	693	683	679	684	677	663	649	647	639	634	626	632	640	640
<b>DECEMBER</b>																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	667	671	674	683	681	683	687	672	670	651	631	624	623	629	637	641	641
2	693	680	680	685	693	690	700	697	686	668	657	633	647	639	637	638	638
3 **	689	691	685	697	699	707	690	674	663	646	640	638	629	626	644	638	638
4	681	684	668	679	674	676	682	686	678	670	671	674	675	680	679	677	677
5 **	692	690	691	693	694	696	697	715	708	704	701	698	666	638	634	675	675
6	643	649	648	647	651	660	653	651	654	657	656	660	661	660	660	660	660
7 *	675	680	668	673	677	675	679	680	678	678	677	674	671	671	667	669	669
8	684	686	685	686	687	690	688	686	689	688	684	686	686	690	690	692	692
9	690	690	691	693	697	697	697	706	706	702	699	694	693	694	698	700	700
10 *	710	701	697	697	702	704	705	707	706	704	701	696	694	694	701	704	704
11 *	705	704	703	703	703	705	717	710	710	707	703	704	704	707	709	710	710
12	705	708	704	718	707	710	710	708	707	703	704	708	701	691	697	703	703
13	668	680	699	697	682	691	695	697	700	694	693	690	687	690	690	691	691
14 **	670	680	694	673	684	707	708	683	671	661	653	648	661	645	640	651	651
15	680	687	689	693	699	694	695	710	695	680	670	673	660	668	666	666	666
16	688	683	685	690	697	702	705	708	700	684	668	671	677	674	664	667	667
17	680	684	688	690	690	694	703	710	704	693	682	682	677	685	687	690	690
18	712	702	698	699	706	710	711	709	718	709	699	695	687	678	685	685	685
19	712	705	701	699	703	707	715	715	718	698	680	676	663	660	658	659	659
20	691	704	698	697	702	701	702	706	709	707	700	697	694	694	695	693	693
21 *	699	704	706	705	706	706	708	710	713	709	703	700	699	699	702	703	703
22 *	700	700	699	703	708	711	716	720	720	714	708	706	706	712	714	716	716
23	705	701	703	703	706	708	711	708	709	703	689	683	685	693	702	712	712
24	669	674	678	678	681	688	695	699	690	669	650	657	664	672	675	685	685
25	692	692	699	711	713	710	710	711	709	695	684	683	687	689	689	685	685
26	705	704	702	702	700	716	714	708	709	704	697	674	667	691	674	669	669
27 **	709	694	692	700	705	709	706	705	698	673	652	649	659	649	656	660	660
28 **	693	689	667	680	690	692	700	698	693	697	683	656	667	677	654	643	643
29	669	676	684	679	687	696	697	690	686	669	667	655	653	665	665	670	670
30	699	696	700	704	702	712	709	702	700	691	683	674	644	652	652	659	659
31	699	700	705	709	703	706	712	707	707	703	694	686	683	685	688	692	692
Mean	689	690	690	692	694	698	701	700	697	688	680	676	673	674	674	678	678
Mean *	698	698	695	696	699	700	705	705	705	702	698	696	695	697	699	700	700
Mean **	691	689	686	689	694	702	700	695	687	676	666	658	656	647	646	653	653

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
631	639	652	643	656	660	662	656	657	05 38	731	13 06	598	133	1 **
630	649	645	657	668	676	677	653	658	20 13	724	18 43	589	135	2 **
645	658	657	656	668	695	669	671	660	20 50	721	10 22	622	99	3 **
642	648	666	691	670	657	653	663	662	19 46	711	12 53	617	94	4
672	685	683	691	698	697	700	697	672	01 35	710	10 47	624	86	5
665	669	682	696	681	709	691	691	682	21 36	729	10 56	633	96	6
669	686	683	685	695	686	699	701	684	20 14	719	12 26	650	69	7
676	683	672	668	687	702	702	702	686	04 15	725	14 21	646	79	8
698	686	687	692	716	695	692	692	698	20 49	729	19 02	679	50	9
696	703	705	705	712	707	711	697	695	22 27	726	12 24	660	66	10
695	702	704	705	705	703	698	692	694	17 58	709	12 04	668	41	11 *
703	708	713	702	706	708	706	704	699	18 11	718	11 53	671	47	12 *
712	715	712	717	719	714	706	699	705	22 02	735	11 47	685	50	13
655	674	686	697	699	702	683	698	686	01 53	731	12 11	630	101	14
687	693	698	701	702	702	707	703	689	22 33	712	11 30	661	51	15 *
681	669	661	661	665	669	686	692	686	07 06	712	19 32	651	61	16
676	684	691	695	699	701	696	691	688	04 30	730	12 14	638	92	17
687	692	663	690	686	694	697	695	690	19 04	734	18 48	643	91	18
675	688	696	698	699	698	703	699	687	06 04	709	14 49	648	61	19
695	698	700	701	700	701	705	706	695	01 50	715	12 22	672	43	20 *
631	649	658	659	660	656	666	666	679	04 47	720	16 04	626	94	21
688	691	684	680	688	699	697	690	688	04 12	724	12 03	654	70	22
650	651	662	677	711	685	691	692	659	20 16	728	10 51	606	122	23
682	691	691	690	689	691	695	698	686	23 56	704	14 31	665	39	24 *
666	673	674	676	674	674	676	698	686	23 08	719	14 15	653	66	25
695	701	702	707	702	691	686	672	692	06 41	718	10 48	654	64	26
701	705	707	696	705	697	692	692	691	23 54	751	11 56	671	80	27
653	660	661	645	651	661	645	652	658	03 17	758†	11 13	577†	181	28 **
655	661	663	675	680	678	676	675	662	20 41	691	11 24	618	73	29
629	625	654	658	666	661	656	688	665	07 22	720	17 38	598	122	30 **
671	678	680	684	689	689	687	688	681	-	722	-	640	81.9	Mean
692	698	701	700	700	701	702	701	693	-	712	-	667	44.2	Mean *
638	646	654	652	662	671	661	664	660	-	731	-	597	134.0	Mean **

18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
647	668	688	683	681	680	687	690	665	18 48	697	12 39	613	84	1
658	665	660	654	651	679	685	692	669	06 05	710	11 12	616	94	2
656	660	679	669	641	638	645	682	664	05 43	721	15 24	607	114	3 **
676	678	679	685	681	677	687	693	679	23 25	694	04 43	665	29	4
624	620	557	563	569	620	632	640	659	15 17	735†	19 24	504†	231	5 **
667	667	661	665	675	680	684	681	660	23 45	689	00 20	633	56	6
678	684	689	690	690	690	691	687	679	22 21	698	02 40	662	36	7 *
697	685	699	699	685	680	678	687	688	18 49	705	22 12	674	31	8
705	705	708	711	713	712	706	708	701	21 02	718	12 23	687	31	9
707	708	711	704	701	705	705	707	703	00 05	725	12 38	692	33	10 *
706	710	713	713	713	711	710	706	708	06 18	721	02 12	700	21	11 *
705	706	701	706	696	676	659	660	700	03 24	730	21 58	653	77	12
699	694	698	710	705	680	684	665	691	20 21	719	21 58	648	71	13
656	654	670	669	673	668	672	680	670	06 30	716	13 50	623	93	14 **
666	660	656	685	692	696	693	710	683	23 05	731	17 59	633	98	15
660	667	674	674	670	685	690	681	682	07 39	710	16 32	648	62	16
695	695	690	689	688	694	701	701	691	07 52	714	12 43	675	39	17
692	698	701	703	702	697	705	699	700	08 26	720	13 10	674	46	18
671	670	673	687	695	695	695	691	689	08 18	725	12 52	647	78	19
695	680	678	688	695	695	698	697	696	01 39	714	18 31	676	38	20
706	709	713	714	711	709	710	706	706	19 48	717	00 05	696	21	21 *
715	704	708	718	720	713	701	698	710	08 26	722	23 10	693	29	22 *
682	666	679	678	689	693	697	659	694	15 27	729	17 12	631	98	23
689	694	702	704	706	708	707	699	685	22 20	712	10 21	644	68	24
695	695	687	689	698	704	701	706	697	04 13	717	18 52	677	40	25
666	661	673	688	689	695	684	667	690	21 46	726	17 58	649	77	26
671	673	665	677	679	678	684	707	681	00 20	735†	11 13	619	116	27 **
648	668	655	646	664	681	683	673	675	05 12	715	14 58	608	107	28 **
681	690	694	696	699	699	694	700	682	23 33	705	12 04	635	70	29
664	680	682	693	690	699	699	699	687	05 18	716	12 53	637	79	30
694	699	698	699	701	702	704	705	699	06 37	716	12 02	680	36	31
680	681	682	685	686	688	689	690	687	-	716	-	648	67.8	Mean
702	703	707	708	707	706	703	701	701	-	717	-	689	28.0	Mean *
651	655	645	645	645	657	663	676	670	-	724	-	592	132.2	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	467	466	466	466	467	468	468	469	466	462	464	460	459	463	469	469	469
2 *	464	463	462	463	464	465	466	467	467	465	464	456	452	457	464	465	465
3	463	462	460	460	460	460	462	467	468	468	464	457	450	454	461	461	461
4	471	469	467	465	464	464	464	465	463	458	454	430	446	452	454	462	462
5	473	471	468	467	466	466	466	467	464	461	462	459	454	463	476	476	473
6 **	493	490	489	487	483	481	480	478	479	473	479	475	468	468	484	491	491
7 **	474	472	473	472	466	462	460	465	468	469	479	474	471	474	481	482	482
8	473	474	472	473	474	476	476	475	472	468	465	465	463	468	474	482	482
9 **	486	489	487	485	482	480	479	478	473	470	472	471	463	476	487	503	503
10 **	486	485	487	490	490	482	480	482	482	481	486	483	496	505	531	536	536
11	479	479	487	491	491	490	489	489	487	486	488	485	482	486	493	493	493
12	501	500	494	493	492	491	490	489	486	481	479	475	475	478	485	484	484
13	477	478	478	479	481	481	481	482	479	477	474	469	467	472	481	485	485
14	473	473	472	473	475	476	475	474	471	468	465	463	459	460	466	471	471
15	476	476	475	472	471	467	466	468	472	474	470	464	462	464	475	484	493
16	473	473	472	472	472	472	472	473	473	468	459	462	464	475	484	493	493
17	468	472	473	470	472	472	475	476	476	474	474	476	482	483	495	495	495
18	478	477	472	469	469	469	471	474	477	473	465	463	462	467	473	476	476
19	471	472	472	470	469	471	472	474	475	472	472	476	473	472	476	480	480
20 *	476	475	474	474	474	473	473	474	474	474	477	476	468	467	473	476	476
21 *	473	473	473	472	472	471	471	473	475	474	472	469	465	469	474	475	475
22	474	473	472	469	468	466	466	465	464	464	463	462	458	456	462	465	465
23	468	464	464	462	463	463	463	463	463	463	461	458	456	459	463	468	468
24 *	471	471	470	471	471	469	466	465	464	466	465	463	456	458	466	465	465
25	467	468	467	467	467	467	466	465	462	459	457	455	450	462	467	475	475
26 **	478	477	477	476	474	476	476	474	472	470	466	457	457	459	466	471	471
27	475	475	476	477	477	476	476	474	471	467	463	464	461	461	468	474	474
28	474	474	474	474	474	474	475	476	475	469	462	454	450	457	465	473	473
29	474	472	472	473	473	473	473	473	471	470	472	464	460	457	469	479	479
30	468	470	474	473	473	469	470	473	474	473	471	467	469	467	470	472	472
31	471	471	467	464	467	463	460	461	466	471	475	475	474	471	471	471	471
Mean	475	474	474	473	473	472	472	473	472	470	469	466	464	467	475	479	479
Mean *	470	470	469	469	470	469	469	470	469	468	468	465	460	463	469	470	470
Mean **	483	483	483	482	479	476	475	475	475	473	476	472	471	476	490	497	497
FEBRUARY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	471	466	466	467	465	464	465	468	473	472	471	469	465	464	474	476	476
2	472	470	470	471	471	465	460	458	467	471	468	470	464	467	473	479	479
3	495	485	477	474	475	473	472	475	479	474	465	465	470	473	482	494	494
4 **	480	469	469	467	470	467	468	472	477	472	466	461	459	464	473	471	471
5	478	476	478	478	474	465	463	466	474	474	471	468	472	478	486	502	502
6	465	462	464	468	473	475	474	475	478	475	477	476	467	466	473	483	483
7	473	474	475	474	474	474	473	473	473	471	469	464	461	468	474	480	480
8	474	475	476	476	475	473	473	471	469	465	453	452	452	455	463	467	467
9	452	452	453	446	454	462	462	456	457	456	456	456	457	464	473	480	480
10 *	480	477	477	477	477	477	476	473	474	472	468	466	464	466	467	471	471
11	472	472	471	471	466	467	466	465	464	461	459	464	460	463	474	491	491
12	478	477	477	477	467	472	475	475	476	472	464	462	456	460	466	485	485
13	458	462	467	470	472	473	474	472	475	471	465	460	460	465	483	491	491
14	468	466	464	459	460	459	458	461	465	466	460	454	454	477	477	496	496
15	474	463	463	459	441	436	428	441	451	455	451	458	464	480	485	489	489
16 **	480	468	448	467	459	449	436	440	455	464	463	461	459	467	473	484	484
17	477	465	454	446	452	455	458	465	477	479	478	481	482	486	490	492	492
18 *	481	480	481	482	482	482	481	482	486	482	475	466	460	465	468	472	472
19	476	476	471	467	464	464	463	465	470	472	470	466	467	475	484	488	488
20 *	478	477	477	476	476	475	474	474	475	469	461	455	453	457	464	467	467
21 *	475	475	475	473	472	470	470	471	476	472	461	455	452	456	462	469	469
22	472	471	472	471	469	460	457	459	460	456	454	450	445	450	460	470	470
23	469	469	469	469	469	462	460	458	454	455	457	455	461	456	462	472	472
24 *	471	473	473	475	475	475	474	472	472	470	456	449	453	460	466	477	477
25 **	468	468	467	468	466	462	451	449	456	451	451	449	445	459	519	554	554
26 **	505	488	483	474	474	480	476	453	462	469	465	465	465	470	490	506	506
27	480	479	477	475	470	471	477	475	471	470	463	459	458	457	463	472	472
28 **	468	467	470	470	475	482	483	483	479	475	466	466	469	483	497	522	522
Mean	475	472	470	470	468	468	466	466	469	468	464	462	460	466	476	486	486
Mean *	477	476	477	477	476	476	475	474	477	473	464	458	456	461	465	471	471
Mean **	480	472	467	469	469	468	463	459	466	466	462	460	459	469	490	507	507

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m		h m		$\gamma$	
468	467	468	470	470	469	467	465	466	466	14 55	472	12 28	458	14	1 *
464	463	467	468	468	467	466	464	464	464	08 15	468	12 45	450	18	2 *
461	462	464	469	470	471	471	471	463	463	22 18	473	12 19	448	25	3
470	471	481	489	489	483	479	477	467	467	19 36	490	12 20	441†	49	4
479	483	500	500	507	492	497	491	475	475	20 09	516	12 51	449	67	5
488	492	500	502	493	492	479	480	484	484	19 47	508	12 53	463	45	6 **
480	479	482	484	487	490	487	482	476	476	19 01	498	06 49	458	40	7 **
482	483	493	495	502	506	490	480	478	478	22 12	513	12 11	462	51	8
513	557	528	530	519	536	509	501	495	495	17 12	597†	12 25	462	135	9 **
539	534	534	533	520	520	516	501	503	503	19 08	563	23 58	476	87	10 **
490	490	490	491	491	490	491	499	489	489	23 36	505	00 19	466	39	11
479	478	481	488	489	485	483	481	486	486	00 02	506	11 38	474	32	12
482	484	484	488	488	482	478	474	479	479	19 58	492	12 25	465	27	13
470	471	476	478	479	478	480	476	472	472	06 16	480	13 20	458	22	14
474	477	479	480	479	476	474	473	472	472	00 52	477	12 14	459	18	15
496	497	495	497	494	493	483	472	479	479	17 12	500	10 30	453	47	16
490	492	493	494	488	482	480	478	480	480	14 45	502	03 29	466	36	17
486	495	489	488	487	482	473	466	475	475	17 10	500	12 21	459	41	18
476	476	484	487	481	481	477	476	475	475	19 20	492	04 23	466	26	19
473	473	474	474	475	476	473	473	474	474	10 23	479	13 18	465	14	20 *
474	474	474	475	476	475	474	474	473	473	08 47	476	12 49	463	13	21 *
467	468	467	471	470	468	468	472	467	467	23 56	476	13 20	454	22	22
467	467	467	469	468	466	467	470	464	464	00 01	476	12 32	452	24	23
467	467	466	466	466	466	466	466	466	466	00 35	473	12 36	454	19	24 *
489	499	515	499	487	480	480	481	473	473	18 41	535	12 07	443	92	25
476	483	482	482	480	476	475	474	473	473	17 18	484	11 59	447	37	26 **
475	477	481	485	487	486	481	477	474	474	21 01	490	13 23	458	32	27
474	474	474	478	481	483	483	480	472	472	20 40	485	12 20	448	37	28
484	487	486	494	491	476	472	469	474	474	19 53	501	13 19	454	47	29
474	474	475	477	475	474	472	472	472	472	19 15	483	11 51	464	19	30
475	477	477	480	482	479	474	474	472	472	20 46	484	06 51	458	26	31
480	483	485	486	485	483	480	477	475	475	-	497	-	458	38.7	Mean
469	469	470	471	471	471	469	468	469	469	-	474	-	458	15.6	Mean *
499	509	505	506	500	503	493	488	486	486	-	530	-	461	68.8	Mean **

43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m		h m		$\gamma$	
473	474	480	482	479	479	477	474	471	471	18 55	485	13 20	462	23	1
483	491	490	497	500	494	489	490	476	476	20 15	504	07 19	454	50	2
486	483	488	493	500	493	492	489	481	481	20 17	502	11 22	461	41	3
480	494	495	512	511	496	490	481	478	478	19 50	523	12 36	455	68	4 **
511	499	499	495	488	486	487	481	481	481	16 14	521	05 48	457	64	5
487	487	485	496	483	484	482	477	476	476	19 10	504	00 40	460	44	6
488	486	485	478	477	477	475	473	475	475	18 41	491	12 22	458	33	7
471	474	473	472	475	486	476	467	469	469	21 14	497	11 35	449	48	8
486	485	481	479	477	477	478	481	466	466	16 49	486	03 40	440	46	9
475	476	476	475	475	476	476	472	473	473	00 28	482	12 18	461	21	10 *
506	503	492	492	492	492	493	488	477	477	16 57	513	09 55	452	61	11
490	487	493	489	485	482	475	461	475	475	18 53	495	12 33	451	44	12
497	487	495	509	494	491	482	467	477	477	19 26	514	11 51	454	60	13
526	525	523	515	504	495	488	477	479	479	16 31	533	12 00	442	91	14
512	518	506	506	497	489	486	483	472	472	17 01	527	06 11	424	103	15
524	523	515	509	506	503	456	465	474	474	18 53	553	07 46	421†	132	16 **
493	490	488	486	486	483	482	481	476	476	16 02	493	03 19	441	52	17
476	478	477	476	478	478	477	477	477	477	08 42	486	12 24	458	28	18 *
488	488	484	483	479	479	478	478	475	475	15 09	490	06 55	460	30	19
470	470	470	470	471	472	473	475	470	470	00 00	478	11 54	453	25	20 *
475	476	473	474	476	476	471	470	470	470	08 23	477	12 12	451	26	21 *
475	471	471	470	469	469	470	471	464	464	00 49	476	12 36	443	33	22
476	476	474	474	472	470	470	470	466	466	16 50	477	11 40	451	26	23
482	479	475	473	470	469	468	467	470	470	16 34	481	11 24	447	34	24 *
565	635	580	563	551	535	519	510	498	498	17 19	726†	12 01	437	289	25 **
517	509	500	501	487	490	478	478	483	483	16 39	528	07 29	445	83	26 **
498	537	544	512	502	501	496	488	483	483	17 58	589	13 42	454	135	27
535	546	531	525	531	484	488	482	491	491	20 49	565	01 08	459	106	28 **
494	498	494	493	490	486	481	478	476	476	-	514	-	450	64.1	Mean
476	476	474	474	474	474	473	472	472	472	-	481	-	454	26.8	Mean *
524	541	524	522	517	502	486	483	485	485	-	579	-	443	135.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MARCH																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	479	474	476	473	459	464	466	460	463	471	466	465	460	464	482	533	
2	475	480	473	475	474	471	471	471	477	476	475	470	469	476	490	501	
3	477	475	469	469	467	469	475	477	480	475	469	462	464	472	478	481	
4	477	474	480	480	479	479	478	478	480	478	475	467	470	478	481	488	
5	488	482	479	479	473	474	473	479	481	478	472	467	465	473	482	491	
6	484	481	477	475	477	478	478	479	479	472	462	458	462	466	471	479	
7	479	479	480	479	478	475	475	476	476	470	463	458	460	465	468	474	
8	491	485	468	473	477	475	473	475	475	472	468	463	460	468	474	481	
9 *	484	484	483	482	481	480	480	482	482	478	472	468	467	471	476	483	
10 *	474	475	477	478	478	479	479	483	484	478	463	451	446	451	458	470	
11 *	471	471	472	473	473	473	474	476	473	463	451	443	438	450	459	468	
12	471	470	469	471	472	471	466	469	465	459	452	454	450	459	462	476	
13	473	472	471	469	471	472	474	478	477	472	465	456	455	461	468	474	
14	471	471	471	472	472	472	470	469	467	468	460	456	451	453	458	466	
15	469	469	466	464	466	469	470	472	472	468	455	444	439	439	446	459	
16 *	468	468	466	468	468	469	469	469	468	460	446	433	427	433	439	450	
17	469	467	465	466	467	468	467	469	470	462	452	439	434	436	447	457	
18	467	467	467	467	467	470	471	473	473	466	456	449	447	452	459	460	
19	467	466	466	466	466	467	467	468	468	461	449	444	446	452	457	465	
20	470	469	468	467	467	467	467	466	462	452	445	441	447	452	456	461	
21	469	469	468	469	468	469	471	473	471	462	448	436	441	447	459	469	
22 *	471	471	470	471	470	469	471	472	465	453	446	441	439	444	453	464	
23	467	467	465	462	462	461	460	464	462	456	446	439	443	450	459	469	
24	472	472	471	467	467	468	472	474	471	462	447	429	425	439	452	462	
25	467	468	469	466	454	454	464	468	466	461	451	439	434	442	457	482	
26 **	479	480	479	479	479	479	478	479	472	457	429	428	427	464	480	483	
27 **	465	446	434	427	388	400	373	350	405	427	436	447	468	498	577	670	
28 **	491	500	505	505	500	500	505	505	497	490	482	475	476	486	514	574	
29 **	467	453	464	457	472	472	457	466	468	463	462	463	468	503	527	541	
30	495	495	485	476	480	485	486	497	491	483	475	463	466	474	484	498	
31	485	483	479	478	481	481	485	487	483	475	465	453	455	464	480	487	
Mean	475	474	472	471	469	470	470	471	472	467	458	452	452	461	473	488	
Mean *	474	474	474	474	474	474	475	476	474	466	456	447	443	450	457	467	
Mean **	476	471	472	468	460	463	456	452	461	462	455	456	460	483	516	560	
APRIL:																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	481	482	473	479	481	475	469	470	473	472	468	465	469	474	478	485	
2	486	485	485	484	483	483	487	492	492	485	471	455	453	459	469	481	
3	494	486	482	481	478	479	484	487	484	475	459	451	451	462	470	479	
4	483	482	479	477	477	478	484	488	482	470	458	450	455	463	472	478	
5 *	486	484	479	479	478	476	477	481	477	467	454	445	447	455	465	476	
6	477	476	475	475	475	475	478	482	477	463	446	437	437	448	462	476	
7	480	480	481	481	480	480	482	486	480	465	450	436	435	445	459	475	
8	478	477	475	473	472	469	471	474	470	461	446	434	435	449	462	476	
9 **	471	467	467	477	482	473	467	478	477	472	465	456	461	470	483	491	
10 **	487	487	479	470	479	484	485	481	465	475	467	451	442	470	505	543	
11	498	487	482	485	483	479	482	483	479	470	456	449	449	456	468	480	
12	480	484	485	486	484	483	485	487	483	475	466	459	453	460	471	478	
13	479	475	475	477	480	481	485	484	477	464	449	439	435	443	455	465	
14	476	475	469	468	473	476	478	476	475	464	453	445	440	443	456	465	
15	465	460	463	470	474	475	477	479	477	473	466	458	450	453	464	473	
16	475	470	469	471	473	475	477	476	473	468	457	450	449	452	464	473	
17	476	476	476	475	476	477	478	479	476	470	459	447	446	456	469	477	
18 *	474	469	469	472	476	478	478	475	471	465	455	449	446	448	455	464	
19 *	476	476	475	474	473	474	476	477	474	465	463	456	450	453	461	464	
20 *	474	474	475	475	476	476	476	475	472	464	456	455	449	455	461	464	
21	473	473	469	468	467	468	475	482	478	472	465	462	458	458	466	474	
22 *	476	477	477	478	477	477	478	476	473	467	455	442	433	437	449	459	
23 **	471	472	473	474	475	475	475	471	467	456	445	430	422	435	447	461	
24 **	511	510	507	503	498	493	493	493	484	475	468	459	461	475	494	510	
25	481	480	478	480	478	469	474	476	476	468	457	452	450	456	469	482	
26	477	478	473	464	465	477	483	487	479	464	450	439	443	448	461	474	
27	462	465	470	471	468	468	467	467	467	460	447	434	428	440	463	483	
28	476	474	474	473	472	472	474	477	470	457	444	440	438	444	459	473	
29 **	467	466	466	466	469	467	464	462	458	449	441	438	442	444	460	483	
30	483	479	478	476	472	472	475	475	472	466	462	459	454	459	481	502	
Mean	479	478	476	476	476	476	478	479	475	467	457	448	446	454	467	479	
Mean *	477	476	475	476	476	476	477	477	473	466	457	449	445	450	458	465	
Mean **	481	480	478	478	481	478	477	477	470	465	457	447	446	459	478	498	

\* International Quiet Day. \*\*International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 γ + Tabular Quantities (in γ)															
										h m	h m	γ			
538	529	513	514	510	482	486	478	484	484	15 36	547	04 47	452	95	1 **
498	504	507	497	492	479	480	477	482	482	20 10	520	08 28	462	58	2
497	509	502	495	492	477	482	482	479	479	17 04	513	11 51	457	56	3
494	498	503	494	499	499	492	488	484	484	18 18	511	11 32	464	47	4
493	499	499	499	492	489	487	485	482	482	18 14	504	12 07	461	43	5
481	482	482	481	479	479	479	478	476	476	00 48	485	11 36	456	29	6
485	499	505	502	502	504	502	496	481	481	18 31	508	11 45	456	52	7
490	483	478	478	477	477	479	482	476	476	00 08	493	12 19	458	35	8
489	485	482	480	477	476	475	475	479	479	16 34	488	12 15	466	22	9 *
477	477	473	472	471	471	470	470	471	471	08 19	487	12 30	445	42	10 *
473	473	470	472	472	470	471	470	467	467	08 20	477	12 30	435	42	11 *
487	489	490	491	485	477	476	474	471	471	19 20	494	12 31	446	48	12
484	484	480	478	477	485	477	472	473	473	21 28	489	12 02	448	41	13
475	479	478	478	477	476	473	469	469	469	17 20	481	12 12	450	31	14
468	471	471	471	471	472	473	471	464	464	07 20	475	13 15	438	37	15
458	464	465	467	467	468	468	469	459	459	22 49	470	12 30	427	43	16 *
463	467	467	469	468	468	467	468	461	461	07 56	471	13 05	433	38	17
463	463	463	466	466	466	466	466	464	464	07 49	475	12 22	447	28	18
467	468	468	470	469	468	469	468	463	463	07 38	471	12 09	443	28	19
465	464	465	467	469	469	470	470	462	462	00 31	470	11 21	439	31	20
476	476	472	471	472	471	472	472	465	465	16 54	478	11 41	435	43	21
468	468	466	466	466	467	469	468	463	463	07 03	473	12 41	437	36	22 *
478	476	471	467	467	468	471	471	463	463	16 29	480	11 40	437	43	23
468	476	482	478	475	472	469	467	464	464	18 23	483	12 22	423	60	24
499	501	509	503	495	488	481	480	471	471	18 28	516	12 12	430	86	25
496	509	523	524	515	514	499	454	479	479	19 05	556	10 40	419	137	26 **
732	706	676	631	521	487	485	479	497	497	16 30	946†	07 34	337†	609	27 **
563	560	599	575	553	519	445	472	512	512	18 26	634	22 54	387	247	28 **
575	553	532	531	516	505	500	496	492	492	16 13	580	01 01	442	138	29 **
503	505	505	500	498	489	485	485	488	488	18 02	509	11 41	460	49	30
494	506	515	501	495	495	480	475	483	483	18 59	523	11 34	451	72	31
497	498	497	493	487	482	477	475	475	475	-	516	-	440	76.3	Mean
473	473	471	471	471	470	471	470	468	468	-	479	-	442	37.0	Mean *
581	571	569	555	523	501	483	476	493	493	-	653	-	407	245.2	Mean **

43000 γ + Tabular Quantities (in γ)

APRIL

43000 γ + Tabular Quantities (in γ)															
										h m	h m	γ			
489	489	486	485	486	486	486	486	479	479	16 54	489	11 05	465	24	1
488	496	499	499	497	498	497	496	484	484	20 51	503	11 58	450	53	2
488	489	485	484	483	483	484	486	478	478	00 42	495	12 06	450	45	3
481	483	480	480	479	482	484	485	476	476	07 32	489	11 30	449	40	4
480	478	477	478	476	475	475	476	473	473	00 11	488	11 50	442	46	5 *
484	489	489	484	485	485	483	479	472	472	17 59	493	12 05	435	58	6
482	486	486	491	487	477	478	481	473	473	19 57	502	12 05	432	70	7
494	513	509	502	499	495	503	493	476	476	17 52	517	12 20	432	85	8
497	496	496	498	486	486	488	485	479	479	18 31	513	11 15	455	58	9 **
623	599	571	535	528	518	509	503	502	502	16 26	644†	12 16	434	210	10 **
485	491	489	489	493	503	501	476	480	480	22 50	524	11 21	444	80	11
483	487	490	488	485	483	484	483	479	479	18 22	491	12 45	453	38	12
475	481	485	484	484	482	480	477	471	471	07 45	486	12 18	433	53	13
470	476	479	478	477	482	482	477	469	469	21 59	485	12 22	438	47	14
477	481	487	488	486	482	479	477	472	472	18 52	493	12 40	448	45	15
477	480	480	481	481	478	478	477	471	471	20 26	483	12 46	448	35	16
478	480	481	481	479	478	477	476	473	473	19 11	483	12 18	443	40	17
468	474	476	475	475	475	475	476	468	468	05 58	479	12 52	446	33	18 *
466	472	476	475	474	474	476	477	470	470	07 29	478	12 26	449	29	19 *
468	471	472	470	470	470	471	472	468	468	05 49	479	12 08	448	31	20 *
479	483	483	477	475	474	475	475	472	472	07 35	485	12 48	455	30	21
468	471	469	468	468	468	468	470	466	466	05 51	479	12 39	433	46	22 *
482	511	535	541	543	557	521	511	481	481	21 30	617	12 32	419†	198	23 **
520	519	507	494	489	494	482	479	492	492	16 39	524	12 00	455	69	24 **
501	520	520	508	500	488	473	473	480	480	17 32	528	12 09	449	79	25
483	499	506	502	499	495	485	470	479	479	17 53	508	11 50	437	71	26
495	509	509	503	496	494	489	476	472	472	17 20	512	12 24	427	85	27
486	494	500	500	500	492	489	468	473	473	20 40	503	12 28	438	65	28
508	533	551	527	514	503	494	487	477	477	18 43	558	11 43	438	120	29 **
527	535	548	522	505	500	494	487	487	487	18 18	556	12 49	453	103	30
490	496	497	493	490	489	485	481	476	476	-	509	-	443	66.2	Mean
470	473	474	473	473	472	473	474	469	469	-	481	-	444	37.0	Mean *
526	532	532	519	512	512	499	493	486	486	-	571	-	440	131.0	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	484	483	485	485	480	476	480	483	480	474	466	463	464	471	477	485	
2	487	485	483	478	476	481	484	490	494	491	480	466	456	459	470	476	
3	480	480	480	479	478	478	479	476	467	457	447	439	439	430	462	472	
4	470	474	476	476	476	476	476	470	460	447	442	438	440	451	462	474	
5	456	462	454	442	458	474	482	482	478	467	460	451	448	456	468	479	
6 *	483	484	484	484	484	484	482	480	470	456	444	430	432	443	455	465	
7	477	478	480	481	482	484	484	479	470	454	432	422	425	440	461	475	
8 **	466	469	472	476	470	460	456	458	458	456	446	442	444	457	466	473	
9	480	478	472	472	481	484	488	487	478	464	448	436	434	444	460	472	
10	471	474	477	478	483	486	489	480	476	459	452	442	436	446	455	469	
11	473	471	473	478	485	492	493	493	482	469	452	444	445	462	469	473	
12 **	454	454	464	459	468	472	479	474	479	474	460	452	451	465	479	502	
13	489	491	491	494	496	499	495	488	482	479	469	460	458	467	474	482	
14 *	483	484	485	489	494	499	497	494	485	472	458	447	450	465	479	489	
15 **	485	482	480	478	483	488	491	488	476	465	454	446	444	453	466	476	
16 **	448	447	446	437	418	416	427	433	443	453	449	445	444	454	465	474	
17	480	481	483	484	486	489	488	483	475	465	459	453	460	469	476	488	
18	480	473	465	468	459	461	460	459	457	450	446	441	447	453	463	473	
19	484	484	476	477	481	488	491	487	481	464	448	441	450	461	473	482	
20	478	473	473	478	481	485	484	474	461	448	436	431	436	450	461	468	
21	485	481	479	479	478	474	475	472	464	454	447	445	445	454	465	475	
22	481	482	474	476	482	484	478	466	456	446	435	436	446	457	474	493	
23	481	480	477	474	480	487	483	475	465	454	447	444	440	447	459	472	
24 **	478	474	469	473	480	480	476	467	461	454	434	437	444	457	470	490	
25	432	464	473	484	490	491	484	469	465	458	454	453	448	459	474	486	
26	473	473	480	484	489	494	494	490	483	472	463	457	456	461	469	477	
27 *	479	477	475	476	479	483	484	479	467	453	451	449	447	450	459	467	
28 *	477	477	477	478	479	483	482	479	475	465	457	449	445	446	458	469	
29 *	475	474	474	475	475	475	477	477	474	467	454	442	439	445	454	461	
30	474	472	471	471	474	478	479	474	469	457	441	432	429	438	449	459	
31	472	472	469	468	468	470	472	472	469	464	451	442	447	465	479	494	
Mean	475	475	475	475	477	480	480	477	471	462	451	444	445	455	466	477	
Mean *	479	479	479	480	482	485	484	482	474	463	453	443	443	450	461	470	
Mean **	466	465	466	465	464	463	466	464	463	460	449	444	445	457	469	483	
JUNE																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	476	471	473	473	473	471	473	470	471	469	462	456	455	464	471	472	
2	478	475	475	476	477	481	479	471	467	459	444	434	437	452	464	477	
3	459	460	462	462	465	470	472	468	462	450	442	440	438	450	467	482	
4 **	481	475	469	476	479	477	472	466	461	441	437	438	446	454	463	474	
5	473	474	473	473	473	473	477	477	473	462	446	433	439	449	459	473	
6	479	480	481	482	482	484	483	482	476	464	445	431	434	448	461	475	
7	471	473	478	480	477	478	479	478	471	461	449	438	440	452	461	469	
8	476	476	478	480	481	482	478	471	466	461	446	433	433	443	460	473	
9	474	473	475	476	477	478	479	480	473	461	455	446	443	446	463	479	
10	477	471	467	463	458	461	468	474	473	461	451	449	450	459	471	477	
11	477	476	476	479	484	486	484	477	467	449	436	434	446	453	462	479	
12 *	480	479	480	483	486	489	485	480	475	468	458	450	448	453	463	470	
13 *	476	476	476	479	482	482	481	479	474	463	450	443	440	450	463	469	
14	473	473	471	474	477	482	479	474	469	465	459	448	450	458	467	471	
15	473	472	473	477	479	483	480	470	467	466	456	439	437	447	461	473	
16 *	476	476	473	470	470	470	471	470	465	456	447	447	452	459	464	466	
17 *	479	479	479	479	479	480	479	478	472	463	453	452	454	459	465	464	
18	477	477	475	472	470	470	471	470	464	459	447	435	435	451	459	467	
19	476	476	475	474	475	476	471	463	456	446	435	433	437	447	463	475	
20	474	466	467	473	477	481	476	466	459	455	451	439	435	444	455	466	
21	472	471	473	475	477	479	476	472	467	460	452	441	438	444	456	465	
22	471	471	471	470	471	475	480	474	461	447	429	422	431	439	451	464	
23	468	468	468	474	479	482	474	465	458	450	441	434	432	439	450	466	
24	472	447	438	424	438	459	472	481	486	477	466	451	448	451	454	464	
25 *	471	469	471	475	479	484	490	489	479	469	451	436	432	442	454	466	
26	469	465	465	468	469	476	477	472	462	451	445	437	432	440	455	472	
27 **	476	475	475	478	481	485	481	477	469	460	448	433	425	432	457	480	
28 **	478	471	463	449	445	448	450	447	445	447	453	457	463	477	497	529	
29 **	477	479	478	477	471	464	470	469	461	449	447	449	462	471	482	513	
30 **	482	466	469	476	481	488	488	485	473	463	464	460	465	479	521	542	
Mean	475	472	472	472	474	476	477	473	467	458	449	441	443	452	465	477	
Mean *	476	476	476	477	479	481	481	479	473	464	452	446	445	453	462	467	
Mean **	479	473	471	471	471	472	472	469	462	452	450	447	452	463	484	508	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 γ + Tabular Quantities (in γ)															
										h m	h m	γ			
491	494	499	498	496	495	493	491	483	483	18 19	500	12 00	463	37	1
482	486	484	482	482	482	485	482	480	480	08 47	497	12 21	455	42	2
476	478	478	476	479	482	482	468	470	470	21 35	484	11 48	436	48	3
482	490	492	489	488	480	479	479	470	470	17 59	493	11 46	437	56	4
486	491	486	480	481	482	482	483	470	470	17 42	491	03 53	435	56	5
474	478	480	475	474	474	474	475	469	469	04 32	484	11 55	426	58	6 *
482	484	480	478	474	472	470	471	468	468	17 12	486	11 58	419	67	7
482	488	487	484	480	478	477	477	468	468	17 37	491	12 14	437	54	8 **
479	490	494	490	486	480	476	478	473	473	18 04	496	12 17	432	64	9
483	496	500	495	484	479	476	476	473	473	18 01	505	12 09	433	72	10
484	501	504	498	490	479	474	464	477	477	17 51	507	12 17	439	68	11
554	592	574	546	525	514	492	485	490	490	16 59	655†	03 49	435	220	12 **
492	496	500	500	500	496	488	484	486	486	20 41	504	12 06	456	48	13
492	494	494	489	487	485	484	484	482	482	05 16	499	11 45	444	55	14 *
486	513	525	520	515	498	483	469	482	482	17 59	535	12 39	442	93	15 **
483	487	489	490	490	490	488	479	458	458	22 14	495	04 42	406†	89	16 **
501	504	496	487	483	482	483	481	481	481	17 30	507	11 42	452	55	17
486	506	515	506	499	485	483	480	471	471	18 18	518	11 29	440	78	18
487	492	496	497	488	486	486	481	478	478	19 26	502	11 19	439	63	19
479	487	494	498	505	490	485	486	473	473	20 30	510	12 00	431	79	20
490	501	505	504	499	492	476	477	476	476	18 54	510	12 00	443	67	21
497	504	504	497	488	484	484	482	475	475	17 55	506	10 48	429	77	22
487	498	504	497	494	487	481	479	475	475	18 31	507	12 16	439	68	23
508	508	501	490	484	497	461	423	472	472	16 39	514	23 27	409	105	24 **
501	512	509	508	500	491	486	483	478	478	17 28	515	00 31	413	102	25
487	495	499	496	491	485	480	479	480	480	18 13	501	12 33	456	45	26
473	478	479	480	482	481	479	478	471	471	06 14	486	12 27	445	41	27 *
475	477	477	477	477	477	476	476	471	471	05 38	486	12 51	444	42	28 *
467	475	480	479	477	473	473	474	468	468	18 51	480	12 18	437	43	29 *
465	469	471	474	474	474	474	473	464	464	06 04	480	12 12	426	54	30
501	505	512	509	494	489	487	479	477	477	18 54	519	11 27	439	80	31
488	496	497	493	489	485	481	477	475	-	-	505	-	437	68.6	Mean
476	480	482	480	479	478	477	477	472	-	-	487	-	439	47.8	Mean *
503	518	515	506	499	495	480	467	474	-	-	538	-	426	112.2	Mean **

43000 γ + Tabular Quantities (in γ)															
										h m	h m	γ			
477	479	480	480	482	483	483	480	473	473	22 00	485	12 14	453	32	1
487	497	501	495	494	488	484	475	474	474	18 26	507	11 53	432	75	2
493	500	500	495	489	486	484	481	470	470	17 20	501	12 23	436	65	3
485	489	490	486	485	490	480	476	470	470	21 37	494	11 11	431	63	4 **
482	488	489	488	489	485	481	479	471	471	18 31	491	11 32	432	59	5
483	493	496	495	483	479	479	477	474	474	19 02	503	11 43	428	75	6
477	483	487	484	483	481	477	476	471	471	18 29	489	11 54	433	56	7
481	492	497	493	488	488	478	475	472	472	18 50	497	11 51	431	66	8
491	505	510	503	495	486	480	479	476	476	18 17	514	13 14	441	73	9
480	484	487	486	486	483	479	477	471	471	18 47	488	11 57	449	39	10
496	496	502	498	488	484	480	479	475	475	18 45	502	10 20	432	70	11
472	478	485	487	487	483	479	477	475	475	20 08	491	11 57	448	43	12 *
474	476	478	477	477	475	474	473	470	470	04 36	484	12 06	438	46	13 *
476	478	479	477	478	479	479	473	471	471	05 37	483	11 45	445	38	14
479	485	485	479	480	480	478	478	471	471	05 53	487	11 59	433	54	15
470	479	481	483	481	480	480	479	469	469	18 54	484	11 01	444	40	16 *
466	472	476	475	478	477	478	476	471	471	05 02	480	12 02	451	29	17 *
472	481	486	484	482	480	476	475	468	468	18 48	487	11 42	427	60	18
477	483	479	474	474	475	474	474	466	466	17 41	483	11 34	431	52	19
475	480	481	475	475	471	472	473	466	466	05 09	483	12 12	433	50	20
470	478	484	484	484	477	472	471	468	468	20 15	487	11 55	436	51	21
474	481	484	481	474	470	470	469	464	464	18 57	487	11 12	420	67	22
474	496	504	504	499	494	486	481	470	470	19 42	507	11 37	429	78	23
476	491	508	503	496	488	480	476	469	469	18 50	515	05 23	416†	99	24
477	482	482	482	481	479	477	475	471	471	07 00	492	12 08	431	61	25 *
492	499	499	489	485	482	480	478	469	469	18 10	504	12 17	429	75	26
507	529	536	515	501	492	475	480	478	478	18 08	541	12 29	422	119	27 **
540	542	538	526	518	509	499	491	483	483	16 52	544	08 41	441	103	28 **
542	537	528	524	521	497	475	485	485	485	16 17	543	10 21	443	100	29 **
542	542	527	519	512	502	496	490	493	493	16 51	546†	11 34	454	92	30 **
486	493	495	491	488	484	480	478	472	-	-	500	-	436	64.3	Mean
472	477	480	481	481	479	478	476	471	-	-	486	-	442	43.8	Mean *
523	528	524	514	508	498	485	484	482	-	-	534	-	438	95.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	488	489	486	485	485	491	495	494	489	479	465	457	459	469	472	477	
2	478	475	467	455	445	445	454	461	471	474	468	463	464	469	479	490	
3 *	486	486	483	482	485	486	484	480	471	461	449	436	439	442	454	469	
4	480	480	481	482	484	486	481	479	477	467	456	443	435	441	460	479	
5	481	480	481	483	485	482	478	472	466	465	458	452	461	475	484	491	
6	483	484	484	486	491	493	493	486	480	469	459	456	461	476	486	495	
7	481	481	476	473	481	485	489	491	487	487	481	474	466	470	481	487	
8	481	482	482	479	476	479	478	476	473	474	471	465	463	466	474	485	
9	479	481	482	481	476	474	472	474	476	468	466	453	449	458	468	481	
10	477	474	467	474	474	483	485	484	489	493	476	466	466	466	476	483	
11	477	467	456	458	456	468	471	474	472	466	456	450	446	453	463	473	
12	474	478	486	489	495	503	502	496	488	482	473	463	457	462	474	481	
13 *	483	481	476	476	482	483	483	486	486	483	471	455	452	461	472	486	
14	478	473	469	464	463	468	474	478	480	476	471	462	457	468	486	487	
15 **	482	474	466	446	456	466	473	474	447	489	459	457	451	490	516	797	
16 **	493	513	518	519	526	537	540	537	537	533	525	518	513	517	526	549	
17 **	498	506	510	508	483	474	486	493	498	494	490	490	495	503	510	518	
18 **	475	472	450	419	417	375	372	424	461	482	506	504	504	512	519	528	
19	493	484	485	478	480	494	500	509	507	502	502	498	495	499	514	525	
20	494	490	491	487	488	493	495	492	485	477	480	472	474	474	487	500	
21	480	484	487	491	494	497	498	497	490	480	461	452	460	473	487	502	
22	485	479	483	488	495	498	500	499	493	481	468	465	468	481	491	503	
23	475	466	477	485	490	491	494	498	489	478	461	452	453	458	471	484	
24	486	479	479	485	491	497	495	490	483	471	455	449	439	447	460	478	
25 **	477	468	466	474	480	481	489	492	489	480	477	468	462	459	474	489	
26	483	485	482	471	478	489	491	492	489	489	477	462	456	467	479	491	
27	471	475	458	469	482	486	489	494	492	485	477	472	470	475	485	498	
28	486	476	477	482	493	500	500	497	492	482	465	461	459	463	472	479	
29 *	488	485	483	478	475	478	477	482	484	478	470	464	466	467	480	487	
30 *	490	490	488	488	491	497	498	495	488	481	475	468	462	465	475	486	
31	487	486	483	481	477	480	482	484	484	477	465	462	458	469	479	488	
Mean	483	481	479	478	480	483	484	486	484	481	472	465	463	471	482	502	
Mean *	487	486	483	482	484	487	487	487	484	476	466	456	456	462	471	481	
Mean **	485	487	482	473	472	467	472	484	486	496	491	487	485	496	509	576	
AUGUST																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	490	483	481	475	478	484	486	488	492	495	483	473	473	480	493	502	
2	493	490	483	470	469	474	474	474	476	474	472	470	477	485	497	502	
3	492	488	479	479	483	492	491	489	490	492	482	466	465	474	481	491	
4	492	492	492	492	495	496	495	495	493	489	483	480	475	476	491	499	
5	488	490	492	493	498	499	496	498	491	476	464	458	457	467	480	493	
6	490	490	491	492	492	496	500	497	487	481	475	458	457	467	481	491	
7	480	483	488	491	493	502	502	499	496	481	464	460	461	469	476	493	
8	488	486	489	492	499	504	503	499	491	483	475	468	463	463	476	501	
9	488	482	475	485	493	502	504	498	488	475	460	453	452	464	486	513	
10	495	494	492	483	491	496	499	499	493	483	473	464	462	462	469	479	
11	481	481	480	479	488	493	499	499	490	473	461	457	463	472	482	498	
12 *	487	486	485	486	490	491	492	491	487	486	481	472	462	461	470	479	
13 *	487	484	484	484	487	487	486	484	482	474	462	451	442	451	468	480	
14 *	487	486	484	482	482	485	487	484	479	473	468	462	459	464	473	481	
15	488	485	480	478	480	482	483	478	470	458	450	443	442	448	458	471	
16 **	485	486	486	488	488	488	481	455	446	433	427	440	479	565	570	565	
17 **	425	440	421	375	365	364	391	418	453	477	485	504	532	563	570	580	
18	500	503	504	493	483	468	470	466	467	465	455	450	455	472	494	513	
19	494	498	492	487	474	472	473	473	481	479	465	457	455	463	479	493	
20 **	493	493	494	492	477	471	476	473	473	466	456	446	451	467	485	494	
21 **	487	479	479	482	486	493	496	495	488	479	472	465	466	471	485	499	
22	460	464	474	483	491	497	493	489	495	489	473	467	469	475	486	491	
23 **	486	477	479	480	481	484	494	501	502	492	479	474	471	480	495	500	
24	470	478	474	481	490	487	492	494	496	489	485	476	469	476	484	500	
25	487	479	481	488	488	491	495	496	490	479	470	463	460	467	479	504	
26	479	483	487	491	493	496	497	491	482	473	466	459	453	459	474	486	
27 *	484	477	479	484	489	496	499	499	492	481	466	456	453	461	476	487	
28 *	490	489	489	490	491	492	492	492	487	473	456	445	447	453	463	477	
29	488	487	485	486	487	490	493	495	488	470	459	458	463	472	488	502	
30	483	490	488	489	490	494	498	498	496	492	483	473	473	480	496	508	
31	492	492	490	489	491	496	497	494	484	475	470	465	468	470	479	491	
Mean	485	484	483	482	483	486	488	487	485	478	468	462	464	474	487	499	
Mean *	487	484	484	485	488	490	491	490	485	477	467	457	453	458	470	481	
Mean **	475	475	472	463	459	460	468	468	472	469	464	466	480	509	521	528	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m		h m		Y	
484	488	490	491	489	486	485	482	482	06 28	496	11 57	455	41	1 *	
493	496	496	490	487	486	485	485	474	18 08	497	05 01	442	55	2	
477	482	484	480	477	476	476	478	472	01 51	486	11 28	434	52	3 *	
485	487	487	497	496	485	485	481	476	19 52	502	12 58	433	69	4	
499	507	513	511	502	487	485	483	483	19 59	515	11 51	450	65	5	
496	499	496	493	489	486	486	485	484	17 37	500	11 19	454	46	6	
495	502	504	498	486	483	481	481	484	18 06	506	13 03	466	40	7	
493	504	514	510	497	489	483	480	482	19 02	517	12 24	462	55	8	
495	502	501	501	503	498	487	483	480	20 58	506	12 05	446	60	9	
488	496	502	499	491	485	482	480	482	18 45	504	13 32	464	40	10	
484	476	496	503	508	507	500	483	473	16 27	522	12 23	445	77	11	
491	500	500	494	487	486	486	485	485	05 29	506	12 44	456	50	12	
493	493	491	489	489	486	486	483	480	16 07	496	12 10	448	48	13 *	
489	501	504	494	487	485	484	484	478	18 08	506	12 12	455	51	14	
950	815	619	690	758	653	526	457	555	16 01	1148†	23 04	358	790	15 **	
546	543	541	536	519	513	510	501	525	15 30	554	00 50	467	87	16 **	
527	538	534	557	528	529	476	460	504	21 17	632	23 00	402	230	17 **	
524	520	534	542	532	514	505	504	483	15 56	550	06 13	332†	218	18 **	
536	529	527	516	511	504	494	496	503	16 40	546	03 38	476	70	19	
510	521	526	519	510	503	499	486	494	18 23	529	11 42	470	59	20	
505	510	510	508	508	497	490	488	490	20 21	514	11 27	448	66	21	
508	510	508	501	496	496	489	478	490	17 23	511	11 02	463	48	22	
489	497	503	505	506	504	495	492	484	20 51	510	11 49	451	59	23	
490	505	518	521	515	501	478	481	483	19 28	528	12 25	436	92	24	
499	507	531	537	520	506	495	486	488	19 05	550	13 18	458	92	25 **	
512	528	528	528	517	502	489	468	490	19 45	537	12 07	454	83	26	
507	515	517	510	507	489	485	489	487	18 51	519	02 47	454	65	27	
488	497	507	502	497	495	491	489	485	18 34	509	12 09	457	52	28	
491	494	497	495	492	490	490	490	483	18 22	500	11 23	463	37	29 *	
489	491	490	487	487	486	486	486	485	06 48	498	12 19	462	36	30 *	
496	506	513	510	503	496	496	496	486	18 52	515	12 38	455	60	31	
514	515	512	513	509	500	490	484	488	-	539	-	446	93.3	Mean	
487	490	490	488	487	485	485	484	480	-	495	-	452	42.8	Mean *	
609	585	552	572	571	543	502	482	511	-	687	-	403	283.4	Mean **	

43000  $\gamma$  + Tabular Quantities (in  $\gamma$ )

AUGUST.

										h m		h m		Y	
507	518	518	500	494	493	493	493	491	18 19	526	12 05	467	59	1	
502	509	510	509	496	492	492	492	487	19 07	516	05 06	467	49	2	
502	509	507	504	500	495	492	492	489	17 50	512	11 41	459	53	3	
509	520	520	509	500	495	489	481	494	18 03	525	12 59	471	54	4	
503	513	512	502	498	494	490	489	489	18 06	516	12 13	455	61	5	
510	535	549	539	523	504	497	487	495	18 30	552	11 56	453	99	6	
519	523	523	521	514	498	493	491	492	17 45	526	11 59	459	67	7	
510	511	508	497	492	491	491	488	490	17 52	511	13 19	462	49	8	
527	546	551	547	532	519	509	501	498	18 55	559	12 06	449	110	9	
496	506	516	516	509	499	494	490	490	18 55	519	13 45	460	59	10	
508	501	499	494	491	491	492	490	486	16 30	511	11 25	455	56	11	
490	493	492	491	491	491	491	489	485	07 02	493	12 54	459	34	12 *	
485	488	484	486	488	488	488	487	479	17 17	491	12 20	441	50	13 *	
484	485	485	484	485	486	486	485	480	07 05	489	12 21	458	31	14 *	
475	484	491	495	495	498	486	485	475	21 47	503	11 09	439	64	15	
673	648	597	579	534	521	483	458	511	16 37	731†	10 57	413	318	16 **	
602	607	533	515	522	503	495	499	485	17 29	638	03 30	339†	299	17 **	
522	529	535	513	507	502	497	490	490	18 35	549	11 39	449	100	18	
501	507	521	529	512	501	497	496	487	19 44	532	12 15	453	79	19	
501	506	503	497	496	491	491	491	483	20 49	507	11 40	442	65	20 **	
520	530	536	524	509	494	489	474	492	18 13	547	11 46	462	85	21 **	
506	509	510	508	510	490	489	488	488	20 43	519	00 26	457	62	22	
509	532	536	524	510	501	496	482	494	17 57	546	12 03	469	77	23 **	
510	508	505	500	499	499	494	489	489	16 32	512	12 33	466	46	24	
520	516	506	500	499	497	494	489	489	16 31	521	12 33	458	63	25	
495	496	494	495	496	492	491	490	484	05 59	498	12 46	452	46	26	
490	490	490	490	492	491	490	490	483	07 08	501	12 07	451	50	27 *	
484	483	479	480	485	486	486	487	479	06 58	494	11 46	443	51	28 *	
496	497	490	490	487	480	481	480	484	15 29	511	11 17	456	55	29	
514	513	501	496	493	491	492	491	493	16 11	516	12 51	472	44	30	
499	502	500	502	503	495	492	490	489	20 14	507	11 22	464	43	31	
512	517	513	508	502	496	492	488	488	-	528	-	452	76.7	Mean	
487	488	486	486	488	488	488	488	481	-	494	-	450	43.2	Mean *	
561	565	541	528	514	502	491	481	493	-	594	-	425	168.8	Mean **	

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>SEPTEMBER</b>																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	488	483	481	483	486	489	493	489	488	480	474	468	473	480	494	510	
2	493	486	476	478	471	475	484	488	481	470	475	473	475	481	488	497	
3	485	483	491	495	496	499	498	498	487	475	471	468	470	470	486	504	
4 **	456	461	462	438	459	471	463	459	464	465	471	476	489	498	520	572	
5	482	475	471	491	505	507	516	518	516	506	502	497	500	502	501	510	
6	447	454	481	495	502	506	509	508	498	485	473	468	471	485	500	506	
7 *	496	495	497	499	502	505	507	503	490	478	468	462	467	477	486	495	
8 *	493	493	493	493	494	496	498	501	493	477	468	463	464	471	480	489	
9 *	487	489	492	494	494	495	496	493	486	478	471	463	465	472	480	488	
10 *	492	490	491	492	492	493	494	497	492	481	471	462	463	465	474	479	
11	491	490	490	486	480	481	483	484	484	480	472	461	462	466	474	485	
12	478	477	478	475	482	486	484	484	483	476	469	467	466	472	484	497	
13	491	483	487	489	488	490	493	493	488	480	471	471	472	477	481	484	
14	477	484	483	483	484	478	478	475	472	471	467	464	467	471	484	493	
15	491	491	490	488	487	491	492	490	484	474	460	458	468	478	487	493	
16	486	481	483	479	473	478	481	483	477	466	458	454	461	473	485	496	
17	490	490	490	490	489	488	486	485	484	475	470	466	469	471	479	490	
18	489	485	487	488	489	489	490	490	484	472	460	458	464	469	481	492	
19	463	472	475	479	465	467	476	480	478	469	455	453	458	467	476	483	
20 **	484	484	477	476	476	470	470	482	485	484	474	470	480	502	520	530	
21 **	448	468	459	444	464	460	446	459	480	483	475	472	479	494	514	540	
22 **	483	460	418	440	458	471	483	492	497	497	497	495	497	499	519	528	
23	489	492	495	497	497	498	502	502	497	487	480	479	482	485	494	508	
24	483	489	485	484	483	486	493	500	498	496	491	484	486	498	507	517	
25 **	490	470	473	470	468	476	487	497	499	497	488	495	497	507	523	542	
26	499	496	485	489	491	497	501	501	498	494	488	486	494	499	497	500	
27	492	487	489	490	494	494	492	500	495	491	482	487	492	501	513	519	
28	500	492	486	490	495	494	491	491	491	487	480	484	486	491	498	499	
29 *	498	492	490	492	494	493	494	494	488	476	471	470	476	489	495	495	
30	495	494	494	494	493	491	491	491	492	484	476	477	478	489	498	505	
Mean	485	483	482	483	485	487	489	491	488	481	474	472	476	483	494	505	
Mean *	493	492	493	494	495	496	498	498	490	478	470	464	467	475	483	489	
Mean **	472	469	458	454	465	470	470	478	485	485	481	482	488	500	519	542	
<b>OCTOBER</b>																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	489	485	485	478	463	458	467	475	480	484	482	486	497	506	518	530	
2	501	501	500	502	485	466	466	471	481	484	482	481	484	484	491	494	
3 **	499	499	499	499	497	494	491	488	490	489	484	474	475	484	498	517	
4 **	469	481	486	472	452	464	481	487	488	489	487	487	498	532	522	522	
5	497	493	478	477	472	480	488	491	490	487	482	477	480	487	494	512	
6 **	484	489	487	484	487	476	476	480	489	491	500	500	508	527	522	533	
7	496	492	493	491	490	494	498	501	499	493	485	483	480	481	485	494	
8	480	488	488	491	492	495	495	500	502	497	490	482	480	481	489	496	
9	493	490	490	490	492	493	496	500	500	497	489	481	477	476	478	487	
10 *	495	493	492	490	490	491	492	495	498	493	483	475	471	473	477	484	
11 *	494	490	490	490	490	490	490	491	493	494	488	480	476	474	477	484	
12 *	492	492	491	489	489	488	487	490	491	486	477	467	462	461	465	479	
13	494	492	492	490	489	488	487	487	487	480	469	464	466	468	475	481	
14	490	489	489	488	487	486	485	486	486	480	469	464	460	470	474	484	
15	490	488	490	489	485	484	484	487	485	480	469	463	461	469	478	491	
16 *	490	491	491	492	492	491	490	489	486	478	466	460	462	469	480	489	
17	487	487	488	488	488	485	484	483	479	466	461	451	455	460	471	483	
18	495	491	475	478	480	485	488	489	486	479	466	462	460	475	488	493	
19	480	481	486	486	489	490	494	494	497	496	492	487	486	487	492	497	
20	481	485	489	490	492	492	492	492	492	490	479	476	474	477	485	492	
21	488	489	489	490	490	491	492	495	496	491	481	473	468	467	472	481	
22	486	483	482	481	482	482	485	487	489	487	481	473	479	496	508	517	
23	487	481	476	476	482	487	493	495	497	497	486	476	475	481	490	498	
24	491	491	491	490	491	491	492	494	493	487	477	474	474	481	488	490	
25	487	482	479	473	471	475	476	481	487	483	481	480	482	485	492	499	
26	481	480	482	486	486	481	477	480	485	485	482	481	479	483	492	519	
27	488	490	490	488	488	484	485	483	485	483	481	477	472	475	487	494	
28 *	492	492	491	489	488	487	485	485	485	482	475	467	465	467	473	478	
29	489	488	487	487	486	484	482	483	484	480	474	469	469	478	482	485	
30	487	475	473	467	474	476	476	482	485	482	471	463	464	473	483	486	
31 **	482	485	490	493	493	490	487	489	486	488	478	475	485	495	504	515	
Mean	489	488	487	486	485	484	486	488	489	486	480	474	475	481	488	497	
Mean *	493	492	491	490	490	489	489	490	491	487	478	470	467	469	474	483	
Mean **	485	488	489	485	478	476	480	484	487	488	486	484	493	509	513	523	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 γ + Tabular Quantities (in γ)															
										h m		h m		γ	
528	541	537	534	524	501	496	495	496	17 20	545	11 21	466	79	1	
508	508	515	525	515	509	496	496	490	19 25	528	04 54	465	63	2	
515	525	545	526	513	508	492	417	492	18 32	551	23 43	350†	201	3	
600	581	562	562	542	518	483	471	498	16 10	614†	03 30	418	196	4 **	
519	528	537	527	511	498	471	463	502	18 44	539	22 58	449	90	5	
510	510	506	501	499	498	496	496	492	06 57	515	01 03	428	87	6	
506	506	500	500	499	495	493	493	492	16 58	512	11 25	461	51	7 *	
500	501	496	496	498	498	495	488	489	16 57	506	11 03	461	45	8 *	
491	484	488	493	493	494	495	493	486	06 02	496	11 54	462	34	9 *	
480	484	486	488	491	492	501	495	485	22 24	504	11 35	460	44	10 *	
491	489	488	490	496	496	492	490	483	20 58	501	11 52	456	45	11	
503	500	495	497	495	494	493	494	485	16 29	507	12 16	465	42	12	
487	485	484	488	488	494	487	472	484	22 00	514	23 17	469	45	13	
496	499	494	494	491	497	491	491	483	21 43	503	11 56	461	42	14	
501	505	498	495	501	491	477	484	486	20 42	510	11 26	456	54	15	
499	495	492	494	504	509	497	493	487	19 49	503	11 03	453	50	16	
499	502	508	509	502	492	480	465	485	20 53	518	11 36	463	55	17	
487	489	491	490	489	487	487	486	476	18 47	517	23 12	451	66	18	
532	540	553	552	522	503	486	464	497	18 28	492	11 36	448	44	19	
									20 02	581	23 56	450	131	20 **	
553	574	547	525	523	508	499	494	492	17 02	607	00 29	436	171	21 **	
522	519	532	516	502	502	502	497	493	18 30	552	02 53	412	140	22 **	
530	537	529	525	520	497	495	489	500	17 10	545	11 12	477	68	23	
523	519	517	518	518	507	503	497	499	20 38	525	12 02	479	46	24	
571	567	548	539	536	517	499	498	506	16 33	588	04 10	463	125	25 **	
509	515	512	519	507	507	504	487	499	19 39	526	10 53	483	43	26	
532	522	515	513	504	506	502	499	500	16 50	543	10 20	480	63	27	
498	505	510	508	505	505	498	500	495	18 42	516	10 48	479	37	28	
496	494	494	494	492	494	501	496	490	22 38	505	11 10	467	38	29 *	
510	511	513	510	507	508	504	498	496	18 52	522	11 02	475	47	30	
513	514	513	511	506	500	493	486	491	-	530	-	455	74.7	Mean	
495	494	493	494	495	495	497	493	489	-	505	-	462	42.4	Mean *	
556	556	548	539	525	510	494	485	497	-	588	-	436	152.6	Mean **	
43000 γ + Tabular Quantities (in γ)															
										h m		h m		γ	
530	524	531	526	524	505	497	498	497	15 54	536	05 02	456	80	1 **	
495	493	492	492	492	492	496	499	488	00 43	503	05 59	460	43	2	
541	558	557	541	517	508	497	459	502	17 13	582†	23 22	443†	139	3 **	
530	526	517	519	519	506	499	493	497	13 35	541	04 08	448	93	4 **	
523	550	572	547	532	487	500	496	500	18 02	580	21 17	458	122	5	
558	538	529	527	535	501	495	497	505	16 42	574	05 40	468	106	6 **	
501	502	502	505	506	498	476	485	493	20 58	510	22 32	472	38	7	
501	501	501	500	498	497	497	495	494	08 23	503	13 30	480	23	8	
497	497	498	502	502	497	497	496	492	19 43	508	13 08	475	33	9	
489	498	494	494	494	496	496	494	489	17 35	501	12 34	470	31	10 *	
490	490	492	492	495	496	496	493	489	22 14	498	13 20	474	24	11 *	
489	486	490	496	504	508	498	495	486	21 08	515	13 15	460	55	12 *	
485	485	487	488	488	488	489	490	484	00 16	494	11 13	464	30	13	
492	493	497	500	501	504	500	497	486	22 03	509	12 43	458	51	14	
494	494	492	492	487	481	482	485	483	00 00	494	12 01	457	37	15	
493	490	489	490	490	486	486	486	484	02 51	493	11 41	460	33	16 *	
488	490	495	498	501	505	500	497	483	21 38	509	11 36	444	65	17	
520	515	505	503	505	495	488	483	488	16 48	530	12 22	456	74	18	
499	500	504	497	492	492	491	493	492	18 30	508	00 51	477	31	19	
496	496	495	494	492	491	490	489	488	17 50	497	12 26	473	24	20	
485	489	491	490	490	491	491	487	486	08 02	497	13 03	467	30	21	
527	516	512	511	507	506	499	491	494	16 39	537	11 47	470	67	22	
500	498	498	497	495	493	493	493	489	09 05	501	12 04	473	28	23	
493	494	494	492	493	496	497	492	489	22 13	499	12 24	473	26	24	
506	505	501	498	498	501	496	486	488	17 05	508	04 32	469	39	25	
524	526	520	516	511	509	493	487	494	15 45	532	12 17	477	55	26	
499	501	497	495	494	494	493	493	488	17 42	504	13 00	471	33	27	
482	485	485	485	487	488	488	489	483	00 22	493	11 56	464	29	28 *	
486	486	485	484	485	486	487	488	483	23 50	491	12 10	468	23	29	
488	486	487	494	512	506	495	466	481	20 57	523	23 10	443†	80	30	
523	545	547	532	512	509	490	491	499	19 07	564	11 56	470	94	31 **	
504	505	505	503	502	497	493	490	490	-	517	-	464	52.8	Mean	
489	490	490	491	494	495	493	491	486	-	500	-	466	34.4	Mean *	
536	538	536	529	521	506	496	488	500	-	559	-	457	102.4	Mean **	

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	483	484	482	487	486	472	468	475	477	479	483	488	503	527	530	533	
2 **	478	472	451	448	438	454	473	483	486	492	492	492	496	512	532	533	
3 **	457	477	470	475	489	493	493	493	493	495	495	489	487	499	522	534	
4	498	499	500	503	504	503	500	500	500	495	489	492	492	507	524	542	
5	476	475	472	471	489	489	493	494	502	503	496	497	495	500	518	514	
6	494	484	473	479	486	490	490	495	497	496	489	487	485	487	495	506	
7	494	494	495	495	494	494	495	497	500	499	497	491	486	489	497	505	
8	495	494	494	488	485	484	487	491	495	497	494	488	485	490	501	504	
9	496	496	495	494	490	490	489	490	492	492	486	480	477	479	484	489	
10	504	500	496	495	492	491	490	488	491	489	484	478	476	481	487	491	
11 *	495	493	492	493	492	491	489	487	487	489	487	479	475	479	487	490	
12 *	500	499	497	493	492	489	489	488	492	492	486	483	481	485	488	492	
13	497	496	494	493	492	491	487	484	486	484	482	473	474	475	483	488	
14	498	494	485	481	484	486	487	485	486	484	475	472	484	486	497	510	
15 *	495	494	494	496	496	496	495	495	494	489	485	483	482	485	490	495	
16	490	492	493	494	493	493	491	490	487	484	479	475	477	481	490	495	
17	494	494	490	483	480	477	483	486	487	483	475	474	478	490	495	499	
18	495	494	491	490	488	490	491	489	486	484	480	478	478	484	494	498	
19	494	494	494	494	494	495	495	493	496	493	491	485	486	492	499	508	
20 *	491	488	486	488	492	493	494	496	497	494	488	484	480	484	488	492	
21	489	489	488	487	487	487	489	489	490	489	485	480	485	500	507	515	
22	499	497	496	490	487	488	488	489	491	491	491	482	488	488	490	494	
23	505	500	486	477	479	477	481	479	485	489	487	491	501	509	531	530	
24 *	497	496	492	492	495	497	497	499	501	500	499	494	491	494	497	501	
25 *	497	492	491	491	492	492	492	492	492	492	487	483	486	486	489	496	
26	493	495	495	493	491	491	490	487	488	486	484	481	482	485	490	496	
27	506	501	499	498	497	495	493	491	495	495	495	493	498	502	502	500	
28 **	507	510	514	489	429	430	439	462	474	483	474	498	496	503	515	519	
29	503	496	489	490	496	498	500	500	502	504	507	504	506	512	522	528	
30 **	503	499	498	498	499	499	497	493	491	491	493	496	503	516	534	553	
Mean	494	493	490	488	487	487	488	489	491	491	488	486	487	494	503	508	
Mean *	496	494	492	492	493	493	493	493	494	493	489	485	482	485	490	494	
Mean **	486	488	483	479	468	470	474	481	484	488	487	493	497	511	527	534	
DECEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	503	502	501	493	491	493	493	497	499	497	494	494	500	512	519	531	
2	501	499	497	496	493	488	491	492	497	498	493	497	510	519	524	545	
3 **	496	490	480	474	474	471	471	482	490	493	494	503	514	537	544	568	
4	499	499	501	496	496	501	504	504	504	500	492	491	489	489	493	499	
5 **	500	500	500	501	501	502	502	499	499	494	489	492	490	508	529	574	
6	520	514	513	511	511	514	514	515	514	508	505	502	499	504	507	509	
7 *	510	508	504	504	504	507	509	508	507	503	500	501	500	500	502	505	
8	507	506	504	504	503	502	502	503	500	500	501	502	504	505	503	502	
9	511	508	505	502	500	499	499	497	496	495	492	493	491	495	495	496	
10 *	501	499	498	497	496	495	495	493	489	489	493	496	499	500	498	495	
11 *	498	496	496	495	495	495	491	490	489	491	495	494	495	496	496	496	
12	496	496	497	492	489	488	486	488	488	489	486	484	485	488	494	496	
13	509	500	492	490	492	496	495	495	493	493	491	491	494	497	499	500	
14 **	504	497	486	486	482	484	482	486	491	487	492	494	504	513	522	522	
15	501	496	493	495	491	484	480	476	476	479	484	489	499	504	510	520	
16	492	493	491	494	497	497	495	492	489	488	491	494	495	499	506	511	
17	499	499	498	498	500	500	499	497	493	492	492	493	494	498	499	502	
18	495	493	494	495	496	497	495	493	488	483	484	487	491	490	494	501	
19	493	489	491	490	491	491	491	487	484	482	484	485	487	503	510	515	
20	501	493	491	493	494	496	497	496	494	493	486	485	485	486	491	494	
21 *	496	493	492	493	493	494	495	494	493	490	484	482	482	482	484	489	
22 *	493	493	492	491	492	493	493	491	491	488	483	482	481	483	487	489	
23	493	492	490	489	492	491	488	489	490	493	490	489	488	491	493	494	
24	508	500	498	498	500	499	498	497	497	495	498	493	493	494	498	504	
25	499	499	496	493	492	491	492	493	495	498	496	495	489	493	497	497	
26	494	492	491	489	487	486	483	487	489	492	490	489	489	496	504	513	
27 **	475	476	477	483	481	478	484	486	490	491	487	493	490	502	513	515	
28 **	478	483	487	492	493	489	489	487	490	493	490	491	494	503	509	542	
29	505	500	497	498	493	494	495	495	497	495	494	491	502	501	505	510	
30	495	496	498	498	494	494	492	492	493	494	490	492	496	494	515	517	
31	496	496	495	496	497	498	496	494	491	494	490	489	488	490	497	501	
Mean	499	497	495	494	494	494	493	493	493	493	491	492	494	499	504	511	
Mean *	500	498	496	496	496	497	497	495	494	492	491	491	491	492	493	495	
Mean **	491	489	486	487	486	485	486	488	492	492	490	495	498	513	523	544	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 γ + Tabular Quantities (in γ)															
										h m		h m		γ	
538	542	528	525	518	503	498	493	500	17 07	545	06 32	467	78	1 **	
542	556	541	535	504	504	493	485	496	17 40	598	05 02	434	164	2 **	
549	538	538	526	524	500	496	497	501	16 36	563	00 02	450	113	3 **	
553	535	527	535	500	504	494	491	508	19 13	561	20 29	483	78	4	
516	512	508	511	503	498	496	496	497	14 40	523	03 11	464	59	5	
513	513	514	507	507	507	490	492	495	21 24	520	02 35	471	49	6	
509	507	511	506	506	499	497	496	498	20 06	521	12 37	485	36	7	
504	506	508	513	513	506	500	498	497	19 48	516	05 21	482	34	8	
491	494	498	508	510	499	501	500	492	19 59	518	12 21	476	42	9	
491	494	494	495	496	497	503	495	492	22 19	512	12 13	473	39	10	
491	493	494	494	496	497	499	502	490	23 32	505	12 14	474	31	11 *	
492	492	489	494	499	497	497	502	492	23 14	508	12 07	478	30	12 *	
488	486	489	493	494	501	507	498	489	22 01	512	11 27	470	42	13	
518	520	510	507	507	500	498	499	494	15 55	528	10 47	466	62	14	
497	498	495	494	494	494	492	490	493	00 36	497	12 23	481	16	15 *	
501	509	513	516	517	513	506	497	495	19 46	521	11 18	475	46	16	
502	502	499	496	494	493	490	493	489	16 50	504	11 40	471	33	17	
499	500	511	506	504	499	496	494	492	18 56	550	11 33	476	74	18	
508	506	504	501	497	496	495	494	496	16 03	511	11 34	483	28	19	
494	495	495	495	494	493	492	490	491	08 23	497	12 45	480	17	20 *	
527	527	524	522	514	518	515	507	500	16 51	531	11 50	476	55	21	
497	500	506	513	517	507	501	499	495	20 16	522	11 44	477	45	22	
523	524	529	530	516	499	499	499	501	20 03	542	04 06	468	74	23	
501	501	502	502	503	505	504	501	498	22 08	506	12 25	490	16	24 *	
503	507	509	511	513	511	511	500	496	22 53	518	11 18	481	37	25	
496	495	494	493	495	498	503	507	492	22 42	508	11 58	479	29	26	
497	496	496	502	498	501	506	506	498	00 12	511	11 15	489	22	27	
517	513	511	514	525	508	509	506	494	20 49	536	05 00	415†	121	28 **	
523	521	518	513	512	503	505	504	507	15 15	532	02 57	487	45	29	
562	576	557	535	524	522	521	504	515	17 46	601†	09 07	485	116	30 **	
511	512	510	510	506	502	500	498	496	-	527	-	473	54.4	Mean	
495	496	495	496	497	497	497	497	493	-	503	-	481	22.0	Mean *	
542	545	535	527	519	507	503	497	501	-	569	-	450	118.4	Mean **	

43000 γ + Tabular Quantities (in γ)

DECEMBER

										h m		h m		γ	
533	530	519	513	509	506	505	503	506	15 54	537	04 18	488	49	1	
535	527	527	529	519	514	501	499	508	15 42	563	06 12	484	79	2	
547	536	532	528	538	547	524	508	510	15 43	596	06 17	468	128	3 **	
505	509	509	509	511	514	507	502	501	21 16	517	12 22	487	30	4	
586	581	663	648	641	584	535	527	535	19 17	749†	11 02	480	269	5 **	
513	514	521	522	518	513	511	511	512	19 06	526	12 13	498	28	6	
505	508	508	508	507	507	508	505	505	00 56	512	13 30	499	13	7 *	
502	503	505	505	510	515	518	515	505	22 36	522	08 56	499	23	8	
499	499	499	499	499	499	500	501	499	00 00	513	10 34	488	25	9	
495	495	496	496	501	502	499	499	497	00 03	507	09 03	487	20	10 *	
495	494	494	496	496	497	498	499	495	22 42	501	09 21	489	12	11 *	
496	495	497	496	505	516	518	510	495	22 05	524	11 36	481	43	12	
500	498	501	500	501	514	526	510	499	22 33	536	10 56	490	46	13	
532	530	526	514	514	514	513	505	503	17 56	567	06 46	477	90	14 **	
520	521	526	514	509	504	510	493	499	18 31	529	07 52	472	57	15	
527	518	517	515	517	513	503	500	501	16 40	537	09 45	485	52	16	
505	504	505	505	505	505	502	496	499	18 33	507	09 27	491	16	17	
503	504	504	503	504	504	502	497	496	22 17	506	09 40	480	26	18	
516	517	522	516	510	506	503	503	499	18 42	524	09 35	480	44	19	
497	501	505	507	505	504	502	499	496	19 42	508	11 14	483	25	20	
492	492	494	495	496	497	498	495	491	22 48	500	12 47	480	20	21 *	
490	493	498	495	494	498	501	496	491	21 47	504	11 59	480	24	22 *	
504	541	517	520	520	515	512	516	500	17 18	574	11 16	486	88	23	
505	504	502	501	501	501	499	498	499	00 03	514	12 07	488	26	24	
499	498	501	504	503	500	498	498	497	18 57	505	12 36	488	17	25	
512	514	528	511	507	513	498	495	498	18 28	539	06 43	481	58	26	
529	512	514	519	504	504	503	489	496	16 08	540	00 32	465†	75	27 **	
535	539	530	529	527	519	509	506	504	17 14	553	00 25	470	83	28 **	
515	508	504	503	501	501	499	496	500	16 26	518	11 07	489	29	29	
520	520	517	514	505	503	500	498	501	17 05	523	08 29	490	33	30	
505	505	504	502	504	496	495	494	496	20 27	510	12 53	487	23	31	
513	513	516	513	512	510	506	502	501	-	534	-	484	50.0	Mean	
495	496	498	498	499	500	501	499	496	-	505	-	487	17.8	Mean *	
546	540	553	548	545	534	517	507	510	-	601	-	472	129.0	Mean **	

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE IV. - K-INDICES

Date	January		February		March		April		May		June	
	Indices	Sum										
1	0001 1000	2	2312 3222	17	4443 3545	32	3330 1110	12	1302 2232	15	2220 2222	14
2	0002 2110	6	1333 3334	23	3343 3454	29	0012 1122	9	2221 1122	13	2223 4343	23
3	2123 2110	12	4213 3335	24	3323 2344	24	3322 2203	17	1011 2224	13	3323 4322	22
4	1012 2332	14	4332 4354	28	3222 2242	19	3221 0211	12	3122 2234	19	3233 3334	24
5	2103 4455	24	3322 2344	23	3222 1243	19	2111 1210	9	5423 3210	20	4222 3332	21
6	4222 3444	25	4212 3344	23	3310 0020	9	2011 1222	11	0011 1200	5	1223 3332	19
7	3332 2244	23	3212 3232	18	0001 1233	10	1112 2243	16	1021 1113	10	2321 2331	17
8	4222 2345	24	0013 3234	16	4311 2111	14	2332 3324	22	3543 4423	28	2222 3433	21
9	4113 3545	26	4442 3112	21	1111 1100	6	5543 2254	30	3223 4423	23	3333 3332	23
10	5333 3354	29	2001 1112	8	0021 0000	3	4466 6643	39	3233 3432	23	3422 2212	18
11	4113 2133	18	1335 5424	27	0010 2021	6	3223 3335	24	3233 3435	26	1124 5431	21
12	3213 2333	20	4423 3334	26	3333 3330	21	3323 2102	16	6555 6844	43	1011 2331	12
13	1112 2232	14	3113 3344	22	1222 3114	16	3122 3232	18	1231 3333	19	1101 2111	8
14	0022 2222	12	3324 5433	27	0123 2112	12	3221 2313	17	1112 2100	8	0222 3313	16
15	2321 1000	9	3443 3441	26	3221 2002	12	3121 2221	14	2124 5654	29	1332 2111	14
16	1012 3344	18	5542 4565	36	3010 1111	8	2113 1121	12	5543 2314	27	1011 2122	10
17	2322 3332	20	5432 1020	17	1220 1112	10	0022 2122	11	1122 3422	17	0000 2233	10
18	3322 2434	23	1001 1211	7	0111 1204	10	3001 2220	10	3331 3345	25	2222 3322	18
19	2222 2142	17	2332 2120	15	0012 2220	9	0001 2312	9	3222 2332	19	1222 3121	14
20	0002 1123	9	0012 1100	5	1211 2001	8	0112 2211	10	3122 2343	20	3112 3132	16
21	0011 1121	7	0022 2122	11	1012 2211	10	2222 3310	15	2322 2333	20	2021 2332	15
22	1121 1122	11	2423 2313	20	0001 2112	7	0001 1100	3	3132 2332	19	1223 3333	20
23	3102 3021	12	4333 2000	15	2321 1232	16	0003 4465	22	3322 2222	18	2221 1443	19
24	1111 0100	5	0012 2112	9	2123 2221	15	3343 3414	25	3354 4446	33	4410 0232	16
25	1103 4453	21	3454 4754	36	2522 4543	27	3232 3433	23	5333 3422	25	2112 1213	13
26	1313 4310	16	5453 4444	33	2035 6556	32	4423 2334	25	3102 2231	14	2332 2320	17
27	0112 2222	12	3322 4653	28	6574 6875	48	2231 2324	19	2111 1021	9	0022 5634	22
28	3110 2222	13	4423 4564	32	2434 4566	34	1122 2334	18	0011 2111	7	4433 4333	27
29	1113 3344	20			5554 4652	36	3322 4543	26	0000 0111	3	3355 4325	30
30	3222 3220	16			2334 2222	20	1122 4552	22	1002 4320	12	4234 5432	27
31	3332 2122	18			2222 3244	21			2322 4344	24		

1969 ]

## MAGNETIC RESULTS 1959 (HARTLAND)

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FOR THE YEAR 1959

Date	July			August			September			October			November			December		
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	
1	1011	2112	9	3333	3332	23	3222	3343	22	5444	3344	31	3453	4344	30	4333	3332	24
2	3422	1200	14	4331	2341	21	4443	2334	27	2433	1322	20	4544	4565	37	3334	3444	28
3	1211	2121	11	3343	3432	25	2333	3337	27	0122	2466	23	5333	4554	32	5434	4645	35
4	0012	3433	16	2224	4424	24	5654	4544	37	4533	4243	28	2133	3364	25	3322	2233	20
5	3332	3231	20	2121	3432	18	4333	3345	28	5422	2466	31	4343	3232	24	1034	5676	32
6	1112	3332	16	0323	3453	23	4232	2210	16	4443	3555	33	4233	3335	26	3323	3232	21
7	2433	3421	22	3322	2332	20	2012	3321	14	3323	2124	20	1321	1343	18	3212	2102	13
8	2333	4431	23	2223	2314	19	1123	2413	17	3222	2211	15	1312	3231	16	1112	1332	14
9	1332	2443	22	4232	3442	24	1022	1213	12	3112	1230	13	0101	2353	15	1123	3202	14
10	3433	2322	22	2421	3332	20	1011	2214	12	1111	1322	12	3222	2214	18	3112	1122	13
11	4431	3655	31	3312	2212	16	1233	3223	19	1012	0022	8	2202	2111	11	0112	2211	10
12	5223	3311	20	1111	2202	10	4232	2311	18	1001	2233	12	2211	2233	16	2323	2234	21
13	2222	3312	17	1212	1221	12	3122	2225	19	1011	2211	9	2112	4224	18	3322	1235	21
14	2333	3331	21	2221	2231	15	4333	3324	25	1123	3233	18	4334	4443	29	4444	4553	33
15	3499	7987	56	2113	4535	24	2133	3344	23	3323	3344	25	2121	1102	10	3333	3444	27
16	5434	3354	31	4466	6646	42	4422	2333	23	1110	1121	8	0011	2333	13	4123	3423	22
17	3333	3877	37	6644	4644	38	2122	3444	22	0124	3344	21	2422	3101	15	3122	1113	14
18	6654	4635	39	2343	4443	27	3224	3334	24	3334	4445	30	2122	3252	19	2122	3112	14
19	4334	4433	28	3433	2443	26	5424	4223	26	3322	2134	20	2222	3201	14	2233	3231	19
20	2223	3334	22	3554	3243	29	4444	5465	36	4122	1100	11	3101	1001	7	3221	1222	15
21	3222	3333	21	5334	3444	30	5563	5665	41	0001	2313	10	1212	3433	19	2111	1011	8
22	2222	2224	18	3332	3454	27	5554	4353	34	3322	2433	22	3433	3233	24	2000	1323	11
23	3331	3222	19	3333	4434	27	2233	2445	25	3222	1110	12	5444	3253	30	2222	2545	24
24	3124	3454	26	3343	2322	22	4333	4333	26	0012	2112	9	3112	2222	15	4133	3112	18
25	4444	3554	33	3323	3313	21	4333	3434	27	3433	3324	25	3112	3224	18	1212	2123	14
26	3333	4544	29	2122	1222	14	3223	3244	23	4333	4334	27	3123	3123	18	2323	3345	25
27	4333	3344	27	3022	1010	9	3333	3333	24	2233	2301	16	3222	2234	20	5334	4454	32
28	3223	3322	20	0110	2102	7	4223	3333	23	0021	1000	4	5765	3344	37	4433	5543	31
29	2321	3132	17	3113	3333	20	3023	2213	16	0011	2103	8	3213	2232	18	3333	3313	22
30	1111	1120	8	3222	2321	17	2123	3343	21	6322	3245	27	2244	4644	30	2222	2331	17
31	2322	3233	20	1222	2322	16				5323	3456	31				2111	1032	11

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

All Days

## DECLINATION WEST (Unit 0'.01)

Month and Season, 1959	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-291	-249	-179	-148	-159	-139	-141	-183	-229	-156	-34	+119	+304
February	-406	-292	-249	-127	-139	-164	-114	-124	-260	-295	-102	+139	+433
March	-288	-308	-247	-255	-225	-277	-237	-307	-510	-445	-148	+261	+611
April	-164	-196	-204	-295	-281	-275	-363	-517	-619	-551	-245	+178	+580
May	-42	-130	-151	-189	-279	-438	-608	-654	-639	-454	-115	+241	+579
June	-101	-150	-232	-234	-291	-499	-663	-733	-713	-495	-163	+191	+548
July	-92	-141	-173	-164	-251	-418	-588	-691	-712	-580	-276	+105	+416
August	-95	-202	-165	-185	-271	-423	-568	-595	-584	-445	-101	+283	+640
September	-253	-243	-267	-286	-267	-252	-259	-354	-412	-199	+106	+451	+648
October	-228	-182	-265	-218	-179	-148	-141	-162	-266	-254	-60	+256	+524
November	-247	-188	-178	-160	-95	-60	-99	-92	-146	-177	-65	+181	+442
December	-310	-187	-115	-63	-5	+9	+9	+13	-26	-57	+39	+201	+353
Year	-210	-206	-202	-194	-203	-257	-314	-367	-426	-342	-97	+217	+507
Winter	-313	-229	-180	-125	-99	-89	-86	-97	-165	-171	-41	+160	+383
Equinox	-233	-232	-246	-263	-238	-238	-250	-335	-452	-362	-87	+287	+591
Summer	-83	-156	-180	-193	-273	-445	-607	-668	-662	-493	-164	+205	+546

## INCLINATION (Unit 0'.01)

January	-22	-23	-27	-40	-63	-76	-86	-72	-36	+10	+38	+45	+60
February	-63	-59	-44	-65	-106	-149	-155	-128	-87	-11	+74	+88	+98
March	-55	-53	-48	-66	-61	-69	-78	-66	-13	+57	+89	+119	+113
April	-33	-43	-47	-39	-41	-71	-74	-46	+24	+75	+125	+141	+128
May	-68	-53	-44	-34	-29	-25	+17	+65	+104	+128	+131	+122	+108
June	-62	-72	-57	-43	-49	-21	+34	+95	+150	+169	+159	+120	+98
July	-55	-52	-61	-59	-23	-1	+56	+120	+243	+281	+244	+192	+152
August	-96	-92	-103	-77	-85	-51	+18	+86	+137	+175	+179	+164	+127
September	-104	-96	-102	-88	-79	-82	-54	+23	+102	+139	+151	+136	+132
October	-63	-71	-70	-66	-93	-112	-107	-77	-24	+44	+107	+122	+118
November	-53	-74	-83	-95	-112	-119	-127	-109	-62	+5	+75	+118	+139
December	-26	-36	-39	-59	-74	-101	-115	-109	-91	-34	+16	+47	+69
Year	-58	-60	-60	-61	-68	-73	-56	-18	+37	+87	+116	+118	+112
Winter	-41	-48	-48	-65	-89	-111	-121	-105	-69	-7	+51	+75	+92
Equinox	-56	-66	-67	-65	-69	-83	-78	-41	+22	+79	+118	+129	+123
Summer	-70	-67	-66	-53	-46	-25	+31	+92	+158	+188	+178	+150	+121

## HORIZONTAL INTENSITY (Unit 0.1γ)

January	+31	+30	+34	+52	+84	+100	+114	+96	+40	-38	-83	-107	-140
February	+89	+70	+41	+70	+128	+187	+191	+150	+103	-16	-163	-194	-213
March	+84	+74	+59	+83	+68	+84	+95	+83	+6	-120	-206	-278	-270
April	+62	+69	+69	+58	+63	+105	+118	+82	-40	-152	-272	-333	-322
May	+103	+82	+67	+53	+54	+59	-1	-88	-172	-248	-298	-313	-290
June	+103	+106	+82	+63	+79	+49	-34	-139	-246	-313	-340	-313	-275
July	+60	+49	+54	+45	-1	-22	-99	-186	-380	-453	-434	-388	-335
August	+128	+120	+132	+88	+105	+65	-28	-134	-221	-309	-355	-358	-297
September	+126	+107	+111	+94	+91	+104	+70	-37	-166	-252	-300	-289	-266
October	+89	+98	+93	+82	+116	+144	+142	+107	+32	-82	-206	-251	-243
November	+69	+96	+95	+106	+126	+138	+155	+133	+70	-31	-150	-224	-249
December	+30	+35	+32	+60	+80	+120	+140	+131	+104	+16	-65	-109	-133
Year	+81	+78	+72	+71	+83	+94	+72	+16	-73	-167	-239	-263	-253
Winter	+55	+58	+51	+72	+105	+136	+150	+127	+79	-17	-115	-159	-184
Equinox	+90	+87	+83	+79	+85	+109	+106	+59	-42	-151	-246	-288	-275
Summer	+99	+89	+84	+62	+59	+38	-41	-137	-255	-331	-357	-343	-299

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## All Days

DECLINATION WEST (Unit 0.01)											Range	Month and Season, 1959
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23		
+450	+447	+396	+366	+305	+248	+ 59	- 76	-171	-266	-278	7.41	January
+593	+653	+618	+418	+247	+129	- 5	- 95	-229	-286	-345	10.59	February
+807	+824	+657	+426	+278	+112	- 31	- 63	-137	-240	-269	13.34	March
+806	+835	+705	+486	+259	+ 85	+ 77	+ 27	- 50	-131	-152	14.54	April
+739	+697	+582	+443	+193	+ 87	+ 82	+ 64	+ 26	+ 4	- 41	13.93	May
+711	+774	+675	+526	+378	+228	+161	+114	+ 7	+ 19	- 69	15.07	June
+668	+759	+644	+580	+458	+270	+148	+108	+ 6	+ 22	-100	14.71	July
+828	+801	+653	+377	+144	+ 31	+ 11	- 29	+ 14	- 58	- 58	14.23	August
+749	+704	+517	+294	+137	+ 27	- 35	-119	-172	-268	-251	11.61	September
+589	+611	+499	+328	+227	+103	+ 15	-146	-303	-315	-289	9.26	October
+582	+534	+449	+326	+174	+ 24	-123	-240	-262	-297	-289	8.79	November
+417	+383	+288	+206	+171	+ 9	- 38	-168	-362	-405	-367	8.22	December
+662	+668	+557	+398	+248	+113	+ 27	- 52	-136	-185	-209	11.81	Year
+511	+504	+438	+329	+224	+103	- 27	-145	-256	-314	-320	8.75	Winter
+738	+743	+595	+383	+225	+ 82	+ 7	- 75	-165	-239	-240	12.19	Equinox
+737	+758	+639	+481	+293	+154	+101	+ 64	+ 13	- 3	- 67	14.49	Summer
INCLINATION (Unit 0.01)												
+ 56	+ 57	+ 48	+ 55	+ 57	+ 48	+ 30	+ 6	- 11	- 32	- 20	1.46	January
+116	+114	+122	+126	+ 91	+ 67	+ 41	+ 15	- 4	- 35	- 48	2.81	February
+ 61	+ 63	+ 60	+ 52	+ 48	+ 26	+ 7	- 40	- 41	- 50	- 51	1.97	March
+115	+ 91	+ 49	- 19	- 38	- 52	- 59	- 53	- 41	- 44	- 38	2.15	April
+ 94	+ 87	+ 44	- 44	- 75	- 85	- 87	- 90	- 95	- 90	- 80	2.26	May
+ 88	+ 35	+ 1	- 56	- 87	- 99	- 97	-109	- 74	- 69	- 61	2.78	June
+127	+ 70	- 46	-197	-203	-182	-163	-126	-107	-105	- 98	4.84	July
+ 94	+ 92	+ 67	+ 1	- 50	- 72	- 92	-113	-112	-102	- 93	2.92	August
+100	+ 94	+ 93	+ 69	+ 17	- 19	- 41	- 74	- 86	-122	-108	2.73	September
+118	+ 99	+102	+ 85	+ 50	+ 17	- 6	- 19	- 49	- 48	- 55	2.34	October
+125	+130	+121	+109	+ 67	+ 46	+ 21	- 20	- 34	- 29	- 38	2.66	November
+ 77	+ 90	+ 90	+ 81	+ 71	+ 72	+ 42	+ 36	+ 15	- 4	- 17	2.05	December
+ 98	+ 85	+ 63	+ 22	- 4	- 19	- 34	- 49	- 53	- 61	- 59	2.58	Year
+ 94	+ 98	+ 95	+ 93	+ 72	+ 58	+ 33	+ 9	- 8	- 25	- 31	2.25	Winter
+ 99	+ 87	+ 76	+ 47	+ 19	- 7	- 25	- 47	- 54	- 66	- 63	2.30	Equinox
+101	+ 71	+ 17	- 74	-104	-109	-110	-109	- 97	- 92	- 83	3.20	Summer
HORIZONTAL INTENSITY (Unit 0.1γ)												
-118	- 88	- 57	- 61	- 52	- 31	+ 3	+ 34	+ 51	+ 66	+ 38	25.4	January
-215	-171	-141	-109	- 41	- 20	+ 13	+ 38	+ 49	+ 76	+ 80	40.6	February
-152	-104	- 35	+ 16	+ 26	+ 57	+ 69	+110	+ 90	+ 86	+ 77	38.8	March
-270	-178	- 62	+ 88	+142	+168	+160	+139	+115	+104	+ 78	50.1	April
-226	-166	- 55	+121	+204	+224	+210	+197	+187	+159	+128	53.7	May
-221	- 86	+ 18	+143	+220	+247	+227	+232	+161	+134	+114	58.7	June
-263	-129	+129	+407	+420	+378	+354	+282	+213	+165	+130	87.3	July
-202	-145	- 56	+100	+196	+213	+220	+228	+200	+167	+138	58.6	August
-185	-130	- 82	- 9	+ 74	+121	+146	+173	+167	+191	+140	49.1	September
-215	-158	-124	- 68	- 11	+ 38	+ 64	+ 79	+104	+ 86	+ 80	39.5	October
-199	-169	-130	-100	- 34	- 9	+ 25	+ 73	+ 77	+ 61	+ 62	40.4	November
-124	-120	- 90	- 68	- 54	- 45	- 10	- 6	+ 19	+ 29	+ 30	27.3	December
-199	-137	- 57	+ 38	+ 91	+112	+123	+132	+119	+110	+ 91	47.5	Year
-164	-137	-105	- 85	- 45	- 26	+ 8	+ 35	+ 49	+ 58	+ 53	33.4	Winter
-205	-143	- 76	+ 7	+ 58	+ 96	+110	+125	+119	+117	+ 94	44.4	Equinox
-228	-131	+ 9	+193	+260	+265	+253	+235	+190	+156	+127	64.6	Summer

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL  
All Days

Month and Season, 1959	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 58	+ 53	+ 51	+ 65	+ 98	+112	+126	+112	+ 61	- 23	- 79	-117	-167
February	+126	+ 97	+ 64	+ 81	+139	+200	+199	+160	+126	+ 12	-151	-204	-251
March	+110	+102	+ 82	+106	+ 88	+109	+116	+111	+ 54	- 76	-189	-299	-324
April	+ 77	+ 87	+ 87	+ 85	+ 89	+130	+151	+130	+ 20	- 97	-245	-345	-372
May	+105	+ 93	+ 80	+ 70	+ 80	+100	+ 57	- 24	-109	-201	-283	-331	-341
June	+111	+119	+103	+ 84	+105	+ 96	+ 30	- 67	-175	-261	-319	-326	-323
July	+ 68	+ 62	+ 70	+ 60	+ 23	+ 18	- 42	-117	-307	-391	-401	-392	-370
August	+135	+137	+146	+104	+129	+104	+ 26	- 75	-162	-262	-340	-380	-353
September	+148	+129	+135	+120	+115	+126	+ 94	- 3	-124	-229	-306	-328	-324
October	+109	+114	+117	+102	+131	+156	+153	+121	+ 57	- 57	-197	-272	-289
November	+ 91	+112	+111	+120	+133	+142	+162	+140	+ 83	- 14	-142	-238	-287
December	+ 59	+ 52	+ 42	+ 65	+ 79	+117	+137	+128	+105	+ 21	- 68	-126	-165
Year	+100	+ 96	+ 91	+ 88	+101	+117	+101	+ 51	- 31	-132	-227	-280	-297
Winter	+ 84	+ 78	+ 67	+ 83	+112	+143	+156	+135	+ 94	- 1	-110	-171	-217
Equinox	+111	+108	+105	+103	+106	+130	+129	+ 90	+ 2	-115	-234	-311	-327
Summer	+105	+103	+100	+ 79	+ 84	+ 79	+ 18	- 71	-188	-279	-336	-357	-347
	WEST COMPONENT (Unit 0.1γ)												
January	-150	-128	- 90	- 70	- 70	- 57	- 55	- 81	-116	- 90	- 33	+ 45	+138
February	-202	-144	-126	- 56	- 52	- 55	- 28	- 40	-121	-161	- 83	+ 40	+194
March	-139	-152	-122	-122	-109	-133	-110	-150	-272	-259	-115	+ 91	+280
April	- 77	- 93	- 97	-148	-139	-129	-174	-262	-338	-321	-179	+ 37	+254
May	- 4	- 55	- 69	- 92	-140	-224	-325	-365	-372	-286	-114	+ 74	+259
June	- 36	- 62	-110	-114	-142	-258	-361	-416	-425	-320	-147	+ 47	+245
July	- 39	- 67	- 83	- 80	-134	-227	-332	-402	-447	-390	-224	- 12	+164
August	- 28	- 87	- 65	- 84	-127	-215	-309	-342	-351	-292	-116	+ 89	+290
September	-113	-111	-123	-137	-127	-117	-126	-196	-249	-151	+ 4	+191	+300
October	-106	- 80	-125	-102	- 75	- 54	- 51	- 68	-137	-150	- 68	+ 93	+238
November	-120	- 84	- 79	- 67	- 29	- 8	- 26	- 26	- 66	-100	- 61	+ 58	+193
December	-161	- 94	- 56	- 23	+ 11	+ 26	+ 29	+ 30	+ 4	- 28	+ 9	+ 88	+166
Year	- 98	- 96	- 95	- 91	- 94	-121	-156	-193	-241	-212	- 94	+ 70	+227
Winter	-158	-112	- 88	- 54	- 35	- 24	- 20	- 29	- 75	- 95	- 42	+ 58	+173
Equinox	-109	-109	-117	-127	-112	-108	-115	-169	-249	-220	- 90	+103	+268
Summer	- 27	- 68	- 82	- 92	-136	-231	-332	-381	-399	-322	-150	+ 49	+240
	VERTICAL COMPONENT (Unit 0.1γ)												
January	- 5	- 9	- 15	- 20	- 23	- 32	- 34	- 27	- 33	- 53	- 62	- 92	-116
February	- 12	- 43	- 57	- 63	- 73	- 83	- 98	- 98	- 63	- 75	-121	-143	-153
March	+ 3	- 13	- 29	- 38	- 54	- 46	- 51	- 38	- 32	- 82	-167	-233	-233
April	+28	+ 12	- 4	- 2	+ 2	- 2	+ 15	+ 29	- 10	- 91	-197	-282	-303
May	+ 1	+ 7	+ 1	+ 6	+ 26	+ 51	+ 57	+ 21	- 36	-131	-236	-302	-298
June	+23	- 4	- 8	- 2	+ 13	+ 41	+ 41	+ 8	- 50	-140	-236	-311	-298
July	- 51	- 66	- 87	-101	- 82	- 55	- 35	- 15	- 37	- 73	-160	-232	-248
August	- 36	- 40	- 53	- 65	- 51	- 25	- 2	- 13	- 37	-108	-200	-260	-247
September	- 69	- 85	- 98	- 87	- 64	- 43	- 24	- 5	- 31	-103	-171	-197	-157
October	- 11	- 20	- 28	- 39	- 53	- 57	- 44	- 21	- 8	- 38	-106	-157	-152
November	- 24	- 36	- 68	- 83	- 96	- 93	- 83	- 72	- 52	- 54	- 87	-108	- 94
December	- 20	- 43	- 60	- 66	- 71	- 72	- 76	- 76	- 76	- 82	- 97	- 90	- 69
Year	- 14	- 28	- 42	- 47	- 44	- 35	- 28	- 26	- 39	- 86	-153	-201	-197
Winter	- 15	- 33	- 50	- 58	- 66	- 70	- 73	- 68	- 56	- 66	- 92	-108	-108
Equinox	- 12	- 27	- 40	- 41	- 42	- 37	- 26	- 9	- 20	- 79	-160	-217	-211
Summer	- 16	- 26	- 37	- 41	- 23	+ 3	+ 15	0	- 40	-113	-208	-276	-273

## COMPONENTS OF MAGNETIC INTENSITY

All Days

NORTH COMPONENT (Unit 0.1γ)											Range	Month and Season, 1959
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23	γ	
-159	-129	-94	-95	-80	-54	-3	+41	+67	+90	+64	29.3	January
-268	-231	-198	-147	-64	-32	+13	+46	+70	+102	+112	46.8	February
-226	-181	-97	-25	-1	+45	+71	+114	+102	+108	+101	44.0	March
-343	-255	-128	+40	+115	+157	+150	+134	+118	+115	+91	52.9	April
-293	-230	-110	+77	+183	+212	+199	+188	+182	+156	+130	55.3	May
-285	-158	-46	+91	+181	+222	+208	+218	+158	+130	+119	54.8	June
-323	-199	+66	+346	+370	+347	+335	+267	+209	+160	+138	77.1	July
-278	-219	-117	+63	+179	+207	+216	+227	+196	+170	+141	60.7	August
-253	-195	-130	-37	+60	+117	+147	+182	+181	+214	+162	54.2	September
-268	-214	-170	-98	-32	+28	+62	+92	+131	+115	+106	44.5	October
-251	-217	-171	-130	-50	-11	+36	+95	+101	+88	+89	44.9	November
-162	-155	-116	-87	-69	-45	-6	+10	+53	+67	+64	30.2	December
-259	-199	-109	0	+66	+99	+119	+135	+131	+126	+110	49.6	Year
-210	-183	-145	-115	-66	-36	+10	+48	+73	+87	+82	37.8	Winter
-272	-211	-131	-30	+36	+87	+108	+131	+133	+138	+115	48.9	Equinox
-295	-202	-52	+144	+228	+247	+239	+225	+186	+154	+132	62.0	Summer
WEST COMPONENT (Unit 0.1γ)												
											γ	
+220	+224	+202	+185	+154	+127	+32	-35	-83	-131	-142	37.4	January
+280	+320	+306	+205	+125	+66	0	-44	-114	-140	-171	52.2	February
+405	+423	+345	+231	+153	+70	-5	-14	-58	-113	-130	69.5	March
+384	+415	+366	+275	+164	+75	+69	+39	-7	-52	-68	75.3	April
+356	+344	+302	+258	+139	+86	+81	+69	+47	+30	0	72.8	May
+342	+399	+364	+306	+241	+165	+126	+102	+32	+34	-17	82.4	June
+311	+383	+367	+382	+319	+211	+141	+107	+40	+41	-31	83.0	July
+408	+403	+340	+219	+111	+54	+44	+24	+42	-2	-7	75.9	August
+368	+354	+262	+156	+86	+36	+7	-33	-63	-110	-110	61.7	September
+277	+299	+245	+164	+120	+62	+19	-64	-144	-153	-141	45.2	October
+277	+256	+217	+157	+87	+11	-61	-116	-127	-148	-144	42.5	November
+201	+184	+138	+98	+82	-3	-22	-91	-190	-212	-191	41.3	December
+319	+334	+288	+220	+148	+80	+36	-5	-52	-80	-96	61.6	Year
+245	+246	+216	+161	+112	+50	-13	-72	-128	-158	-162	43.3	Winter
+358	+373	+305	+207	+131	+61	+23	-18	-68	-107	-112	62.9	Equinox
+354	+382	+343	+291	+202	+129	+98	+75	+40	+26	-14	78.5	Summer
VERTICAL COMPONENT (Unit 0.1γ)												
											γ	
-81	-5	+34	+49	+77	+95	+113	+99	+80	+43	+19	22.9	January
-97	-1	+99	+187	+223	+186	+173	+140	+101	+53	+18	37.6	February
-142	-22	+127	+218	+226	+222	+183	+117	+66	+25	+2	45.9	March
-226	-97	+25	+138	+199	+211	+166	+137	+123	+90	+48	51.4	April
-199	-84	+25	+129	+212	+224	+186	+146	+105	+59	+20	52.6	May
-207	-78	+47	+138	+208	+229	+190	+158	+117	+71	+52	54.0	June
-170	-56	+141	+258	+268	+243	+254	+215	+121	+18	-41	51.6	July
-143	-18	+104	+235	+282	+245	+192	+136	+73	+32	-5	54.2	August
-81	+25	+135	+218	+230	+215	+195	+145	+89	+19	-51	42.7	September
-88	-21	+67	+138	+149	+148	+129	+117	+70	+31	-4	30.6	October
-26	+61	+118	+149	+154	+139	+132	+100	+59	+40	+13	26.2	November
-19	+34	+104	+125	+122	+146	+124	+113	+95	+54	+10	24.3	December
-123	-22	+86	+165	+196	+192	+170	+135	+92	+45	+7	41.2	Year
-56	+22	+89	+127	+144	+141	+135	+113	+84	+47	+15	27.7	Winter
-134	-29	+89	+178	+201	+199	+168	+129	+87	+41	-1	42.7	Equinox
-180	-59	+79	+190	+243	+235	+205	+164	+104	+45	+7	53.1	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

International Quiet Days													
DECLINATION WEST (Unit 0'.01)													
Month and Season, 1959	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-113	-93	-63	-75	-87	-109	-141	-201	-243	-201	-99	+25	+241
February	-53	-27	-43	-79	-91	-115	-169	-389	-335	-421	-281	-35	+251
March	-78	-136	-96	-130	-162	-186	-258	-428	-620	-596	-360	+24	+404
April	-72	-98	-76	-130	-202	-274	-400	-564	-684	-608	-334	+28	+406
May	-25	-59	-127	-153	-265	-417	-551	-649	-657	-527	-221	+139	+463
June	-37	-71	-69	-107	-221	-421	-613	-703	-723	-625	-315	+37	+393
July	-57	-77	-93	-129	-235	-483	-599	-709	-723	-571	-231	+97	+401
August	-23	-61	-171	-227	-295	-449	-603	-715	-699	-513	-161	+207	+565
September	-235	-193	-201	-255	-281	-355	-477	-611	-623	-359	+3	+363	+583
October	-192	-196	-200	-184	-182	-186	-208	-248	-362	-370	-188	+120	+404
November	-184	-142	-122	-122	-130	-116	-120	-164	-248	-304	-186	+14	+306
December	-196	-178	-194	-106	-102	-68	-78	-84	-94	-90	-14	+96	+176
Year	-105	-111	-121	-141	-188	-265	-351	-455	-501	-432	-199	+93	+383
Winter	-137	-110	-105	-95	-103	-102	-127	-209	-230	-254	-145	+25	+244
Equinox	-144	-156	-143	-175	-207	-250	-336	-463	-572	-483	-220	+134	+449
Summer	-35	-67	-115	-154	-254	-443	-591	-694	-701	-559	-232	+120	+456
INCLINATION (Unit 0'.01)													
January	-2	-8	-15	-21	-38	-56	-67	-48	-5	+63	+110	+112	+85
February	+9	+4	-2	-5	-17	-32	-53	-54	-14	+44	+75	+91	+84
March	-21	-23	-27	-28	-36	-46	-60	-37	+25	+91	+120	+122	+103
April	-18	-20	-15	-12	-21	-31	-36	-28	+13	+72	+135	+153	+125
May	-6	-6	+10	+10	+7	+15	+31	+57	+77	+83	+78	+75	+94
June	-41	-28	-18	-22	-19	+9	+63	+131	+181	+201	+169	+125	+93
July	-3	+4	-23	-10	-25	+1	+51	+102	+171	+187	+159	+111	+96
August	-58	-73	-59	-34	-18	+7	+46	+87	+122	+141	+129	+103	+58
September	-58	-47	-35	-17	-13	-6	+25	+84	+122	+156	+157	+120	+95
October	-13	-1	-4	-12	-21	-31	-42	-38	+3	+49	+86	+91	+69
November	-15	-24	-26	-8	-23	-37	-51	-52	-21	+43	+103	+123	+104
December	+33	+27	+45	+33	+13	+9	-24	-31	-35	-19	+4	+20	+29
Year	-16	-16	-14	-10	-18	-17	-10	+14	+53	+93	+110	+104	+86
Winter	+6	0	+1	0	-16	-29	-49	-46	-19	+33	+73	+87	+75
Equinox	-27	-23	-20	-17	-23	-29	-28	-5	+41	+92	+124	+121	+98
Summer	-27	-26	-23	-14	-14	+8	+48	+94	+138	+153	+134	+103	+85
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	+10	+16	+26	+34	+62	+86	+102	+76	+10	-96	-166	-184	-164
February	+9	+13	+23	+27	+45	+65	+93	+91	+41	-61	-145	-195	-193
March	+57	+61	+65	+71	+81	+95	+119	+93	-9	-143	-233	-271	-259
April	+62	+60	+48	+46	+62	+78	+88	+76	0	-122	-256	-314	-290
May	+39	+39	+13	+19	+31	+31	+5	-45	-107	-167	-201	-237	-269
June	+84	+62	+46	+58	+62	+28	-52	-162	-264	-334	-338	-298	-252
July	+33	+19	+47	+21	+51	+27	-47	-123	-243	-297	-301	-271	-251
August	+112	+124	+102	+68	+56	+28	-26	-92	-164	-228	-256	-258	-210
September	+106	+84	+70	+48	+48	+42	+2	-88	-178	-280	-316	-286	-236
October	+46	+24	+26	+34	+46	+60	+74	+72	+14	-72	-166	-208	-186
November	+35	+41	+37	+11	+37	+57	+77	+79	+37	-65	-171	-219	-203
December	-33	-33	-65	-49	-19	-9	+39	+43	+43	+13	-27	-51	-63
Year	+47	+42	+36	+32	+47	+49	+40	+2	-68	-154	-215	-233	-215
Winter	+5	+9	+5	+6	+31	+50	+78	+72	+33	-52	-127	-162	-156
Equinox	+68	+57	+52	+50	+59	+69	+71	+38	-43	-154	-243	-270	-243
Summer	+67	+61	+52	+41	+50	+29	-30	-105	-195	-257	-274	-266	-245

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## International Quiet Days

DECLINATION WEST (Unit 0.01)											Range	Month and Season, 1959
Universal Time. Hour commencing												
13	14	15	16	17	18	19	20	21	22	23		
+383	+331	+215	+181	+181	+129	+53	-35	-119	-85	-87	6.26	January
+377	+425	+371	+235	+149	+129	+101	+41	-9	-29	-7	8.46	February
+600	+634	+512	+342	+224	+172	+116	+68	+38	-18	-64	12.54	March
+640	+660	+536	+366	+202	+98	+78	+134	+144	+96	+60	13.44	April
+597	+551	+475	+371	+233	+163	+179	+167	+157	+115	+49	12.54	May
+567	+639	+607	+519	+373	+261	+223	+175	+155	+37	-75	13.62	June
+639	+729	+615	+447	+315	+215	+153	+125	+117	+59	-11	14.52	July
+709	+719	+551	+333	+185	+159	+179	+133	+111	+57	+15	14.34	August
+673	+607	+441	+247	+213	+237	+205	+141	+95	-83	-139	12.96	September
+498	+524	+434	+322	+186	+176	+130	+18	-118	-102	-84	8.94	October
+420	+410	+332	+282	+190	+156	+128	0	-64	-102	-244	7.24	November
+250	+254	+274	+240	+230	+140	+120	+38	-132	-246	-232	5.20	December
+529	+540	+447	+324	+223	+170	+139	+84	+31	-25	-68	10.84	Year
+357	+355	+298	+235	+187	+139	+101	+11	-81	-115	-143	6.79	Winter
+603	+606	+481	+319	+206	+171	+132	+90	+40	-27	-57	11.97	Equinox
+628	+659	+562	+417	+277	+199	+183	+150	+135	+67	-5	13.75	Summer
INCLINATION (Unit 0.01)												
13	14	15	16	17	18	19	20	21	22	23		
+63	+48	+23	+20	-1	-22	-40	-48	-58	-54	-46	1.79	January
+80	+57	+57	+50	+13	-35	-57	-55	-58	-88	-95	1.86	February
+98	+84	+70	+49	+11	-38	-74	-91	-104	-97	-97	2.26	March
+110	+78	+40	-13	-65	-67	-79	-83	-92	-87	-66	2.45	April
+57	+40	-6	-51	-72	-80	-84	-85	-91	-87	-58	1.85	May
+89	+53	-22	-75	-124	-147	-126	-169	-125	-110	-99	3.70	June
+53	+9	-3	-57	-80	-124	-114	-125	-132	-137	-103	3.24	July
+24	+26	+24	-4	-37	-79	-88	-94	-78	-73	-71	2.35	August
+60	+22	+19	-6	-56	-88	-107	-108	-103	-99	-121	2.78	September
+42	+12	+11	+10	-5	-39	-27	-17	-33	-44	-48	1.39	October
+74	+62	+47	+7	-31	-52	-40	-40	-44	-53	-42	1.76	November
+19	+9	+2	-10	-11	-32	-39	-31	-18	-1	+10	0.84	December
+64	+42	+22	-7	-38	-67	-73	-79	-78	-78	-70	2.19	Year
+59	+44	+32	+17	-7	-35	-44	-43	-45	-49	-43	1.56	Winter
+77	+49	+35	+10	-29	-58	-72	-75	-83	-82	-83	2.22	Equinox
+56	+32	-2	-47	-78	-107	-103	-118	-107	-102	-83	2.79	Summer
HORIZONTAL INTENSITY (Unit 0.1γ)											Y	
13	14	15	16	17	18	19	20	21	22	23		
-120	-70	-28	-28	+2	+38	+68	+82	+96	+84	+68	28.6	January
-167	-113	-89	-59	-3	+63	+93	+91	+97	+137	+143	33.8	February
-225	-173	-109	-51	+7	+71	+127	+149	+167	+157	+157	43.8	March
-248	-164	-76	+24	+116	+122	+136	+140	+152	+148	+122	46.6	April
-183	-109	-1	+93	+143	+161	+159	+157	+161	+151	+109	43.0	May
-214	-120	+14	+114	+212	+260	+230	+294	+220	+192	+168	63.2	June
-159	-55	+7	+113	+159	+229	+205	+215	+217	+223	+169	53.0	July
-136	-86	-38	+30	+84	+140	+154	+172	+148	+140	+134	43.0	August
-150	-58	-26	+34	+106	+150	+184	+188	+180	+184	+200	51.6	September
-138	-70	-32	-6	+22	+74	+62	+58	+86	+94	+94	30.2	October
-143	-105	-65	-1	+59	+87	+73	+79	+85	+97	+81	31.6	November
-45	-25	-7	+13	+19	+57	+67	+59	+45	+23	-3	13.2	December
-161	-96	-38	+23	+77	+121	+130	+140	+138	+136	+120	40.1	Year
-119	-78	-47	-19	+19	+61	+75	+78	+81	+85	+72	26.8	Winter
-190	-116	-61	0	+63	+104	+127	+134	+146	+146	+143	43.0	Equinox
-173	-93	-5	+87	+149	+197	+187	+209	+187	+177	+145	50.6	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL

## International Quiet Days

## NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1959	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 21	+ 25	+ 32	+ 41	+ 69	+ 95	+114	+ 94	+ 33	- 75	-154	-184	-184
February	+ 14	+ 15	+ 27	+ 34	+ 53	+ 75	+108	+127	+ 72	- 20	-116	-189	-214
March	+ 64	+ 73	+ 73	+ 82	+ 95	+111	+142	+132	+ 50	- 84	-195	-269	-294
April	+ 68	+ 68	+ 55	+ 58	+ 80	+103	+125	+128	+ 65	- 62	-220	-312	-324
May	+ 41	+ 44	+ 25	+ 33	+ 56	+ 70	+ 57	+ 17	- 43	-114	-177	-247	-309
June	+ 86	+ 68	+ 52	+ 67	+ 82	+ 68	+ 7	- 93	-191	-270	-303	-297	-286
July	+ 38	+ 26	+ 55	+ 33	+ 73	+ 73	+ 11	- 54	-171	-238	-275	-276	-285
August	+113	+128	+117	+ 89	+ 83	+ 70	+ 32	- 23	- 95	-176	-237	-274	-261
September	+127	+101	+ 88	+ 72	+ 74	+ 75	+ 47	- 29	-116	-242	-312	-316	-288
October	+ 64	+ 42	+ 45	+ 51	+ 63	+ 77	+ 93	+ 95	+ 48	- 36	-146	-216	-222
November	+ 52	+ 54	+ 48	+ 22	+ 49	+ 67	+ 87	+ 93	+ 60	- 35	-151	-217	-229
December	- 14	- 16	- 46	- 38	- 9	- 2	+ 46	+ 50	+ 51	+ 21	- 25	- 59	- 79
Year	+ 56	+ 52	+ 48	+ 45	+ 64	+ 73	+ 72	+ 45	- 20	-111	-193	-238	-248
Winter	+ 18	+ 19	+ 15	+ 15	+ 41	+ 59	+ 89	+ 91	+ 54	- 27	-112	-162	-177
Equinox	+ 81	+ 71	+ 65	+ 66	+ 78	+ 91	+102	+ 81	+ 12	-106	-218	-278	-282
Summer	+ 69	+ 67	+ 62	+ 55	+ 73	+ 70	+ 27	- 38	-125	-199	-248	-273	-285

## WEST COMPONENT (Unit 0.1γ)

January	- 59	- 47	- 29	- 34	- 36	- 43	- 58	- 94	-128	-124	- 82	- 19	+100
February	- 27	- 12	- 19	- 38	- 41	- 50	- 74	-192	-172	-236	-176	- 53	+101
March	- 32	- 62	- 40	- 57	- 72	- 83	-117	-213	-333	-344	-233	- 35	+171
April	- 28	- 42	- 32	- 62	- 97	-133	-199	-288	-366	-347	-223	- 40	+166
May	- 7	- 25	- 66	- 79	-136	-218	-294	-355	-370	-311	-153	+ 33	+201
June	- 5	- 27	- 29	- 47	-107	-220	-337	-404	-433	-393	-228	- 32	+166
July	- 25	- 38	- 42	- 65	-117	-254	-329	-401	-429	-357	-176	+ 4	+171
August	+ 7	- 11	- 74	-110	-148	-235	-327	-399	-403	-314	-131	+ 66	+266
September	-107	- 89	- 95	-128	-142	-183	-255	-342	-364	-241	- 54	+144	+271
October	- 95	-101	-102	- 92	- 89	- 89	- 98	-120	-191	-211	-130	+ 28	+184
November	- 92	- 69	- 59	- 63	- 63	- 52	- 51	- 74	-126	-174	-129	- 31	+128
December	-111	-101	-115	- 65	- 58	- 38	- 35	- 37	- 43	- 46	- 12	+ 42	+ 83
Year	- 48	- 52	- 58	- 70	- 92	-133	-181	-243	-280	-258	-144	+ 9	+167
Winter	- 72	- 57	- 55	- 50	- 49	- 46	- 55	- 99	-117	-145	-100	- 15	+103
Equinox	- 65	- 73	- 67	- 85	-100	-122	-167	-241	-313	-286	-160	+ 24	+198
Summer	- 7	- 25	- 53	- 75	-127	-232	-322	-390	-409	-344	-172	+ 18	+201

## VERTICAL COMPONENT (Unit 0.1γ)

January	+ 16	+ 10	+ 9	+ 6	+ 10	+ 6	+ 2	+ 10	+ 6	- 4	- 2	- 38	- 86
February	+ 51	+ 45	+ 47	+ 47	+ 45	+ 39	+ 31	+ 25	+ 47	+ 11	- 77	-137	-155
March	+ 58	+ 60	+ 58	+ 66	+ 62	+ 62	+ 68	+ 86	+ 66	- 14	-122	-206	-244
April	+ 82	+ 70	+ 60	+ 66	+ 70	+ 72	+ 80	+ 78	+ 44	- 34	-124	-196	-240
May	+ 70	+ 68	+ 66	+ 80	+ 98	+124	+120	+ 94	+ 18	- 98	-196	-290	-298
June	+ 51	+ 45	+ 45	+ 59	+ 79	+ 97	+ 99	+ 79	+ 17	- 75	-195	-257	-261
July	+ 66	+ 58	+ 28	+ 14	+ 32	+ 66	+ 70	+ 70	+ 32	- 40	-144	-244	-248
August	+ 59	+ 33	+ 31	+ 41	+ 67	+ 91	+101	+ 89	+ 43	- 37	-145	-239	-285
September	+ 45	+ 31	+ 39	+ 53	+ 65	+ 77	+ 91	+ 89	+ 11	-107	-189	-247	-217
October	+ 62	+ 52	+ 46	+ 36	+ 34	+ 30	+ 24	+ 36	+ 42	+ 2	- 86	-166	-192
November	+ 28	+ 12	- 6	- 4	+ 6	+ 4	0	+ 2	+ 14	0	- 38	- 82	-110
December	+ 37	+ 19	+ 5	+ 1	+ 1	+ 9	+ 7	- 7	- 21	- 37	- 49	- 49	- 45
Year	+ 52	+ 42	+ 36	+ 39	+ 47	+ 56	+ 58	+ 54	+ 27	- 36	-114	-179	-198
Winter	+ 33	+ 21	+ 14	+ 13	+ 15	+ 14	+ 10	+ 7	+ 12	- 7	- 41	- 77	- 99
Equinox	+ 62	+ 53	+ 51	+ 55	+ 58	+ 60	+ 66	+ 72	+ 41	- 38	-130	-204	-223
Summer	+ 61	+ 51	+ 43	+ 49	+ 69	+ 94	+ 97	+ 83	+ 28	- 63	-170	-257	-273

## COMPONENTS OF MAGNETIC INTENSITY

## International Quiet Days

## NORTH COMPONENT (Unit 0.1γ)

Range

Universal Time. Hour commencing

Month  
and  
Season,  
1959

13	14	15	16	17	18	19	20	21	22	23	Y	
-155	-100	- 48	- 45	- 15	+ 25	+ 62	+ 84	+106	+ 91	+ 75	29.8	January
-200	-152	-123	- 80	- 17	+ 50	+ 82	+ 86	+ 96	+138	+142	35.6	February
-279	-231	-156	- 83	- 14	+ 54	+114	+140	+161	+156	+161	45.5	March
-305	-224	-126	- 11	+ 95	+110	+127	+125	+136	+137	+114	46.1	April
-237	-160	- 46	+ 56	+119	+143	+140	+139	+144	+138	+103	45.3	May
-265	-179	- 44	+ 63	+173	+231	+205	+273	+202	+186	+173	57.6	June
-217	-124	- 52	+ 69	+127	+205	+187	+200	+203	+214	+168	49.9	July
-201	-153	- 90	- 2	+ 65	+123	+135	+157	+135	+132	+131	43.1	August
-212	-115	- 68	+ 10	+ 84	+125	+162	+172	+168	+189	+210	52.6	September
-183	-119	- 73	- 37	+ 4	+ 56	+ 49	+ 55	+ 96	+102	+101	32.4	October
-181	-142	- 96	- 28	+ 40	+ 71	+ 60	+ 78	+ 90	+105	+103	33.4	November
- 68	- 49	- 33	- 10	- 3	+ 43	+ 55	+ 55	+ 57	+ 46	+ 19	13.6	December
-209	-146	- 80	- 8	+ 55	+103	+115	+130	+133	+136	+125	40.4	Year
-151	-111	- 75	- 41	+ 1	+ 47	+ 65	+ 76	+ 87	+ 95	+ 85	28.1	Winter
-245	-172	-106	- 30	+ 42	+ 86	+113	+123	+140	+146	+147	44.2	Equinox
-230	-154	- 58	+ 47	+121	+175	+167	+192	+171	+167	+144	49.0	Summer

## WEST COMPONENT (Unit 0.1γ)

											Y	
+184	+165	+110	+ 92	+ 97	+ 76	+ 40	- 4	- 47	- 31	- 35	31.2	January
+172	+208	+183	+115	+ 79	+ 80	+ 70	+ 38	+ 12	+ 8	+ 21	44.4	February
+282	+309	+255	+174	+121	+104	+ 84	+ 62	+ 50	+ 18	- 7	65.3	March
+299	+324	+273	+200	+128	+ 74	+ 66	+ 96	+104	+ 77	+ 53	69.0	April
+287	+276	+254	+215	+150	+115	+124	+117	+112	+ 88	+ 45	65.7	May
+266	+321	+327	+298	+237	+185	+160	+145	+121	+ 53	- 11	76.0	June
+314	+380	+330	+259	+196	+155	+118	+105	+101	+ 71	+ 24	80.9	July
+356	+370	+288	+183	+114	+110	+123	+101	+ 85	+ 55	+ 31	77.3	August
+334	+315	+231	+138	+133	+153	+142	+108	+ 82	- 12	- 39	69.8	September
+242	+268	+227	+171	+103	+107	+ 80	+ 20	- 48	- 38	- 28	47.9	October
+200	+201	+166	+151	+112	+ 99	+ 81	+ 14	- 19	- 38	-116	37.5	November
+126	+132	+145	+131	+126	+ 85	+ 76	+ 31	- 63	-128	-125	27.3	December
+255	+272	+232	+177	+133	+112	+ 97	+ 69	+ 41	+ 10	- 16	57.7	Year
+171	+176	+151	+122	+103	+ 85	+ 67	+ 20	- 29	- 47	- 64	35.1	Winter
+289	+304	+246	+171	+121	+109	+ 93	+ 71	+ 47	+ 11	- 5	63.0	Equinox
+306	+337	+300	+239	+174	+141	+131	+117	+105	+ 67	+ 22	75.0	Summer

## VERTICAL COMPONENT (Unit 0.1γ)

											Y	
- 58	+ 6	+ 14	+ 6	+ 2	+ 12	+ 20	+ 24	+ 20	+ 6	- 2	11.0	January
-111	- 65	- 7	+ 37	+ 39	+ 23	+ 17	+ 21	+ 23	+ 11	+ 3	20.6	February
-180	-108	- 8	+ 52	+ 56	+ 34	+ 36	+ 28	+ 26	+ 28	+ 26	33.0	March
-194	-108	- 36	+ 10	+ 42	+ 50	+ 42	+ 36	+ 34	+ 40	+ 52	32.2	April
-226	-114	- 22	+ 38	+ 80	+ 96	+ 76	+ 70	+ 56	+ 48	+ 50	42.2	May
-187	- 95	- 43	+ 5	+ 61	+ 91	+ 95	+ 95	+ 75	+ 63	+ 47	36.0	June
-184	- 98	+ 6	+ 64	+ 92	+100	+ 80	+ 64	+ 44	+ 42	+ 34	34.8	July
-231	-111	- 3	+ 55	+ 67	+ 49	+ 51	+ 71	+ 73	+ 71	+ 65	38.6	August
-139	- 57	+ 5	+ 59	+ 51	+ 41	+ 55	+ 59	+ 59	+ 83	+ 43	33.8	September
-176	-120	- 36	+ 22	+ 34	+ 36	+ 50	+ 76	+ 84	+ 64	+ 50	27.6	October
- 74	- 28	+ 12	+ 22	+ 30	+ 22	+ 30	+ 44	+ 44	+ 40	+ 42	15.4	November
- 37	- 25	- 11	- 5	+ 5	+ 21	+ 21	+ 29	+ 43	+ 49	+ 29	9.8	December
-150	- 77	- 11	+ 30	+ 47	+ 48	+ 48	+ 51	+ 48	+ 45	+ 37	27.9	Year
- 70	- 28	+ 2	+ 15	+ 19	+ 19	+ 22	+ 29	+ 32	+ 26	+ 18	14.2	Winter
-172	- 98	- 19	+ 36	+ 46	+ 40	+ 46	+ 50	+ 51	+ 54	+ 43	31.6	Equinox
-207	-105	- 15	+ 40	+ 75	+ 84	+ 75	+ 75	+ 62	+ 56	+ 49	37.9	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

International Disturbed Days													
DECLINATION WEST (Unit 0.01)													
Month and Season, 1959	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-708	-466	-222	-164	-100	-76	-132	-116	-170	-52	+38	+230	+436
February	-680	-358	-358	-124	-252	-296	-38	+146	-222	-320	-128	+256	+710
March	-992	-964	-648	-656	-390	-550	-136	+56	-516	-392	+146	+716	+1116
April	-372	-472	-392	-520	-484	-376	-428	-352	-488	-464	-300	+230	+798
May	-23	-157	-159	-125	-195	-283	-667	-541	-523	-495	-105	+215	+569
June	-18	-258	-444	-304	-386	-582	-660	-762	-822	-366	-54	+278	+562
July	-129	-223	-379	-251	-487	-401	-629	-741	-843	-855	-585	-5	+309
August	-324	-684	-512	-330	-354	-386	-638	-454	-486	-386	+30	+460	+932
September	-492	-298	-54	-112	-222	-24	+282	+30	-308	-104	+178	+548	+702
October	-438	-390	-496	-426	-284	-100	+36	+68	+48	+44	+256	+620	+800
November	-266	-138	-30	-394	+74	+192	+38	0	+128	+68	+152	+256	+630
December	-414	-412	-262	-56	+70	+194	+152	+138	+74	+2	+238	+350	+606
Year	-405	-402	-330	-289	-251	-224	-235	-227	-344	-277	-11	+346	+681
Winter	-517	-343	-218	-185	-52	+3	+5	+42	-48	-76	+75	+273	+595
Equinox	-574	-531	-398	-429	-345	-262	-61	-99	-314	-229	+70	+529	+854
Summer	-124	-331	-374	-253	-355	-413	-649	-625	-669	-526	-179	+237	+593
INCLINATION (Unit 0.01)													
January	+15	-2	-21	-40	-103	-147	-148	-135	-101	-40	+16	+14	+68
February	-123	-168	-104	-148	-213	-251	-270	-188	-146	-65	+48	+63	+76
March	-135	-67	+1	-135	-127	-110	-115	-114	-68	-14	+24	+121	+142
April	-57	-47	-66	-60	-43	-116	-144	-99	+4	+6	+4	+4	+44
May	-222	-210	-113	-113	-125	-125	-19	+57	+130	+145	+168	+219	+177
June	-54	-125	-75	-81	-121	-81	+25	+73	+142	+176	+211	+166	+85
July	-21	-63	-21	-29	+67	+88	+162	+244	+653	+683	+426	+290	+183
August	-133	-96	-187	-147	-275	-157	-20	+30	+110	+193	+174	+235	+184
September	-194	-218	-288	-245	-228	-195	-198	-17	+144	+185	+190	+224	+231
October	-140	-119	-132	-127	-206	-242	-216	-116	-76	+13	+80	+135	+183
November	-166	-161	-199	-285	-248	-222	-242	-175	-73	+33	+45	+113	+158
December	-194	-186	-175	-191	-232	-288	-273	-231	-164	-95	-29	+36	+56
Year	-119	-122	-115	-133	-154	-154	-121	-56	+46	+102	+113	+135	+132
Winter	-117	-129	-125	-166	-199	-227	-233	-182	-121	-42	+20	+57	+89
Equinox	-132	-113	-121	-142	-151	-166	-168	-87	+1	+48	+75	+121	+150
Summer	-108	-123	-99	-92	-113	-69	+37	+101	+259	+299	+245	+227	+157
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	-34	-12	+16	+42	+124	+178	+174	+156	+102	+2	-66	-82	-168
February	+166	+198	+82	+156	+252	+306	+312	+174	+138	+18	-168	-198	-222
March	+131	+5	-93	+97	+47	+37	+13	-5	-35	-113	-199	-341	-355
April	+64	+44	+64	+54	+40	+140	+174	+108	-76	-100	-132	-176	-242
May	+300	+278	+136	+130	+144	+142	-6	-128	-240	-276	-360	-456	-388
June	+69	+151	+65	+77	+137	+81	-79	-165	-299	-391	-453	-397	-255
July	-81	-11	-93	-119	-267	-323	-411	-483	-1085	-1091	-723	-537	-387
August	+123	+67	+189	+93	+267	+93	-79	-151	-253	-391	-387	-469	-333
September	+184	+204	+262	+180	+204	+174	+180	-58	-268	-328	-354	-402	-384
October	+144	+126	+152	+126	+216	+262	+240	+104	+56	-70	-180	-270	-306
November	+182	+186	+220	+334	+230	+198	+246	+176	+36	-106	-126	-206	-254
December	+209	+191	+161	+189	+247	+325	+305	+253	+169	+65	-39	-119	-133
Year	+121	+119	+97	+113	+137	+134	+89	-2	-146	-232	-266	-304	-286
Winter	+131	+141	+120	+180	+213	+252	+259	+190	+111	-5	-100	-151	-194
Equinox	+131	+95	+96	+114	+127	+153	+152	+37	-81	-153	-216	-297	-322
Summer	+103	+121	+74	+45	+70	-2	-144	-232	-469	-537	-481	-465	-341

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## International Disturbed Days

## DECLINATION WEST (Unit 0'.01)

Range

## Universal Time. Hour commencing

Month  
and  
Season,  
1959

13	14	15	16	17	18	19	20	21	22	23		
+598	+582	+522	+620	+460	+392	- 50	- 48	-342	-584	-652	13.28	January
+930	+930	+952	+686	+284	+284	+ 28	-422	-664	-636	-708	16.60	February
+1544	+1624	+1144	+752	+640	+376	-326	-242	-466	-898	-950	26.16	March
+1094	+1196	+1074	+738	+400	+114	+106	- 32	-346	-284	-246	17.48	April
+813	+743	+751	+719	+175	+ 81	+ 67	+ 47	-219	-279	-419	14.80	May
+756	+824	+688	+580	+480	+272	+246	+180	-202	+ 64	- 78	16.46	June
+657	+887	+651	+1045	+969	+639	+313	+331	-127	+163	-307	19.00	July
+1104	+998	+982	+570	+ 64	+ 50	+ 8	-120	- 74	-212	-232	17.88	August
+874	+846	+656	+354	+ 22	-292	-370	-556	-506	-698	-468	15.72	September
+696	+802	+704	+464	+268	- 32	-208	-658	-864	-552	-348	16.66	October
+710	+558	+546	+414	- 36	-382	-368	-454	-546	-628	-534	13.38	November
+624	+560	+332	+158	+164	-136	-156	-462	-868	-564	-322	14.92	December
+867	+879	+750	+592	+324	+114	- 59	-203	-435	-426	-439	16.86	Year
+715	+657	+588	+469	+218	+ 39	-137	-347	-605	-603	-554	14.54	Winter
+1052	+1117	+895	+577	+333	+ 41	-199	-372	-545	-608	-503	19.00	Equinox
+833	+863	+768	+729	+422	+261	+159	+109	-155	- 66	-259	17.04	Summer

## INCLINATION (Unit 0'.01)

+ 67	+ 52	+ 14	+ 55	+111	+128	+ 85	+ 54	+ 53	+ 16	0	2.76	January
+125	+124	+130	+202	+226	+173	+184	+103	+ 84	+ 73	+ 62	4.96	February
-107	+ 35	+ 91	- 16	+ 86	+210	+222	+ 35	+ 24	+ 22	- 4	3.57	March
+ 86	+122	+100	+ 7	+ 30	+ 48	+ 31	+ 55	+ 56	+ 5	+ 24	2.66	April
+147	+184	+ 63	-155	- 40	- 11	- 25	- 27	- 33	- 87	+ 23	4.41	May
+ 37	- 26	+ 60	- 60	- 79	+ 9	- 56	-104	- 42	- 51	- 25	3.36	June
+151	+ 49	-286	-882	-693	-433	-385	-126	- 9	+ 5	- 49	15.65	July
+154	+222	+180	0	- 30	- 32	- 52	- 79	-104	- 83	- 81	5.10	August
+148	+146	+159	+192	+140	+110	+ 54	- 27	- 40	-114	-162	5.19	September
+167	+143	+194	+171	+158	+129	+ 46	+ 45	- 34	+ 7	- 70	4.36	October
+256	+260	+228	+263	+215	+136	+126	+ 37	- 55	- 5	- 41	5.48	November
+160	+200	+208	+228	+184	+288	+275	+264	+153	+ 64	- 52	5.76	December
+116	+126	+ 95	0	+ 26	+ 63	+ 42	+ 19	+ 4	- 12	- 31	5.27	Year
+152	+159	+145	+187	+184	+181	+167	+115	+ 59	+ 37	- 8	4.74	Winter
+ 73	+111	+136	+ 88	+104	+124	+ 88	+ 27	+ 1	- 20	- 53	3.94	Equinox
+122	+107	+ 4	-274	-211	-117	-129	- 84	- 47	- 54	- 33	7.13	Summer

## HORIZONTAL INTENSITY (Unit 0.1γ)

-142	- 62	+ 24	- 26	- 68	-110	- 42	- 22	- 8	+ 6	+ 6	34.6	January
-256	-160	- 96	-132	- 94	- 88	-114	- 14	- 52	-102	- 98	56.8	February
+119	+ 47	+153	+403	+209	+ 11	- 65	+ 77	+ 1	- 75	- 67	75.8	March
-248	-220	-102	+160	+150	+124	+ 94	+ 28	+ 24	+ 46	- 8	42.2	April
-292	-296	- 56	+356	+248	+194	+176	+148	+142	+158	- 66	81.2	May
-137	+ 49	+ 21	+269	+317	+167	+223	+267	+133	+ 91	+ 49	77.0	June
-291	- 83	+709	+1745	+1355	+825	+841	+449	+151	- 45	- 53	283.6	July
-161	-213	-121	+293	+353	+255	+227	+209	+195	+115	+ 69	82.2	August
-210	-124	- 44	- 36	+ 44	+ 56	+ 98	+160	+114	+156	+190	66.4	September
-212	-160	-190	-100	- 72	- 38	+ 56	+ 24	+ 76	- 30	+ 52	56.8	October
-340	-280	-198	-220	-134	- 58	- 78	+ 22	+110	+ 18	+ 44	67.4	November
-227	-241	-163	-187	-147	-245	-249	-245	-127	- 65	+ 67	57.4	December
-200	-145	- 5	+210	+180	+ 91	+ 97	+ 92	+ 63	+ 23	+ 15	81.8	Year
-241	-186	-108	-141	-111	-125	-121	- 65	- 19	- 36	+ 5	54.0	Winter
-138	-114	- 46	+107	+ 83	+ 38	+ 46	+ 72	+ 54	+ 24	+ 42	60.3	Equinox
-220	-136	+138	+666	+568	+360	+367	+268	+155	+ 80	0	131.0	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL

## International Disturbed Days

## NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1959	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 34	+ 32	+ 37	+ 57	+132	+183	+184	+165	+117	+ 7	- 69	-103	-207
February	+228	+229	+115	+165	+272	+330	+311	+158	+157	+ 48	-153	-219	-286
March	+223	+ 97	- 30	+158	+ 83	+ 89	+ 26	- 10	+ 15	- 74	-210	-404	-456
April	+ 98	+ 88	+100	+103	+ 85	+174	+212	+159	- 28	- 54	-101	-195	-314
May	+298	+289	+149	+140	+160	+167	+ 58	- 75	-187	-225	-345	-470	-436
June	+ 70	+173	+106	+105	+172	+135	- 15	- 90	-216	-350	-441	-417	-305
July	- 68	+ 10	- 56	- 93	-217	-280	-345	-405	-989	-993	-657	-528	-411
August	+152	+131	+235	+123	+297	+128	- 17	-106	-203	-348	-384	-506	-417
September	+228	+229	+263	+188	+222	+174	+150	- 60	-235	-313	-366	-448	-445
October	+183	+161	+197	+165	+240	+268	+233	+ 96	+ 51	- 73	-202	-325	-377
November	+205	+196	+220	+366	+220	+177	+239	+173	+ 23	-111	-139	-227	-310
December	+245	+227	+184	+191	+237	+302	+286	+236	+159	+ 64	- 61	-151	-189
Year	+158	+155	+127	+139	+159	+154	+110	+ 20	-111	-202	-261	-333	-346
Winter	+178	+171	+139	+195	+215	+248	+255	+183	+114	+ 2	-105	-175	-248
Equinox	+183	+144	+133	+153	+158	+176	+155	+ 46	- 49	-129	-220	-343	-398
Summer	+113	+151	+109	+ 69	+103	+ 37	- 80	-169	-399	-479	-457	-480	-392

## WEST COMPONENT (Unit 0.1γ)

January	-385	-251	-116	- 80	- 32	- 10	- 40	- 35	- 73	- 27	+ 9	+109	+204
February	-335	-157	-177	- 39	- 91	-105	+ 34	+109	- 95	-168	- 98	+102	+341
March	-508	-515	-363	-334	-200	-288	- 70	+ 29	-282	-229	+ 43	+323	+535
April	-188	-245	-199	-269	-252	-177	-199	-276	-274	-266	-184	+ 92	+385
May	+ 40	- 35	- 61	- 44	- 79	-127	-358	-312	-322	-313	-119	+ 35	+237
June	+ 2	-112	-226	-149	-183	-297	-367	-437	-492	-264	-108	+ 79	+256
July	- 83	-121	-219	-155	-307	-271	-408	-481	-641	-648	-440	- 97	+ 98
August	-152	-354	-241	-160	-143	-190	-355	-269	-304	-275	- 52	+164	+440
September	-231	-124	+ 17	- 28	- 83	+ 18	+182	+ 6	-212	-113	+ 33	+223	+308
October	-209	-187	-239	-206	-114	- 8	+ 61	+ 55	+ 35	+ 11	+105	+284	+374
November	-110	- 41	+ 22	-152	+ 80	+137	+ 63	+ 31	+ 75	+ 18	+ 59	+101	+293
December	-185	-187	-112	+ 3	+ 81	+161	+135	+118	+ 69	+ 12	+121	+166	+301
Year	-195	-194	-160	-134	-110	- 96	-110	-122	-210	-188	- 53	+132	+314
Winter	-254	-159	- 96	- 67	+ 9	+ 46	+ 48	+ 56	- 6	- 41	+ 23	+119	+285
Equinox	-284	-268	-198	-209	-162	-114	- 7	- 47	-183	-149	- 1	+231	+400
Summer	- 48	-155	-187	-127	-178	-221	-372	-375	-440	-375	-180	+ 45	+258

## VERTICAL COMPONENT (Unit 0.1γ)

January	- 28	- 36	- 36	- 42	- 72	-100	-112	-108	-114	-136	- 98	-142	-152
February	- 43	-125	-171	-153	-157	-165	-217	-251	-187	-183	-223	-241	-251
March	-166	-222	-212	-246	-332	-298	-370	-408	-318	-312	-378	-372	-330
April	- 50	- 60	- 80	- 84	- 58	- 80	- 96	- 94	-162	-210	-292	-396	-408
May	- 77	- 87	- 77	- 93	-101	-107	- 81	- 99	-105	-135	-253	-295	-285
June	- 29	- 85	-109	-105	-103	- 93	- 95	-129	-199	-297	-319	-343	-295
July	-261	-245	-291	-379	-387	-445	-391	-271	-247	-155	-197	-237	-261
August	-178	-180	-212	-296	-336	-330	-254	-246	-206	-236	-292	-272	-132
September	-249	-285	-393	-435	-321	-275	-273	-193	-121	-119	-161	-155	- 87
October	-154	-122	-106	-148	-216	-236	-196	-162	-134	-118	-138	-156	- 74
November	-155	-127	-181	-217	-329	-315	-271	-199	-169	-131	-137	- 85	- 41
December	-191	-205	-237	-225	-235	-249	-241	-217	-177	-181	-193	-151	-113
Year	-132	-148	-175	-202	-221	-224	-216	-198	-178	-184	-223	-237	-202
Winter	-104	-123	-156	-159	-198	-207	-210	-194	-162	-158	-163	-155	-139
Equinox	-155	-172	-198	-228	-232	-222	-234	-214	-184	-190	-242	-270	-225
Summer	-136	-149	-172	-218	-232	-244	-205	-186	-189	-206	-265	-287	-243

## COMPONENTS OF MAGNETIC INTENSITY

International Disturbed Days											Range	Month and Season, 1959
NORTH COMPONENT (Unit 0.1γ)												
Universal Time. Hour commencing											Y	
13	14	15	16	17	18	19	20	21	22	23		
-197	-116	-26	-85	-111	-146	-37	-17	+25	+61	+68	39.1	January
<b>-341</b>	<b>-246</b>	<b>-185</b>	<b>-195</b>	<b>-120</b>	<b>-114</b>	<b>-115</b>	<b>+26</b>	<b>+12</b>	<b>-40</b>	<b>-29</b>	67.1	February
-30	-108	+42	<b>+325</b>	+145	-25	-33	+99	+45	+12	+24	78.1	March
<b>-348</b>	<b>-330</b>	<b>-203</b>	+87	+110	+111	+83	+31	+57	+72	+16	56.0	April
<b>-365</b>	<b>-362</b>	<b>-127</b>	<b>+282</b>	<b>+228</b>	<b>+183</b>	<b>+167</b>	<b>+141</b>	<b>+161</b>	<b>+182</b>	<b>-25</b>	76.8	May
<b>-207</b>	<b>-30</b>	<b>-45</b>	<b>+210</b>	<b>+267</b>	<b>+139</b>	<b>+196</b>	<b>+246</b>	<b>+150</b>	<b>+84</b>	<b>+56</b>	70.8	June
<b>-349</b>	<b>-166</b>	<b>+636</b>	<b>+1619</b>	<b>+1243</b>	<b>+752</b>	<b>+799</b>	<b>+411</b>	<b>+161</b>	<b>-60</b>	<b>-23</b>	261.2	July
<b>-264</b>	<b>-305</b>	<b>-213</b>	<b>+234</b>	<b>+342</b>	<b>+246</b>	<b>+223</b>	<b>+217</b>	<b>+199</b>	<b>+133</b>	<b>+90</b>	84.8	August
<b>-290</b>	<b>-203</b>	<b>-106</b>	<b>-69</b>	<b>+41</b>	<b>+83</b>	<b>+132</b>	<b>+210</b>	<b>+160</b>	<b>+220</b>	<b>+232</b>	71.1	September
<b>-275</b>	<b>-234</b>	<b>-254</b>	<b>-143</b>	<b>-96</b>	<b>-34</b>	<b>+75</b>	<b>+86</b>	<b>+157</b>	<b>+23</b>	<b>+84</b>	64.5	October
<b>-402</b>	<b>-329</b>	<b>-247</b>	<b>-256</b>	<b>-129</b>	<b>-21</b>	<b>-42</b>	<b>+65</b>	<b>+160</b>	<b>+77</b>	<b>+94</b>	76.8	November
<b>-283</b>	<b>-291</b>	<b>-192</b>	<b>-199</b>	<b>-160</b>	<b>-228</b>	<b>-230</b>	<b>-197</b>	<b>-43</b>	<b>-12</b>	<b>+97</b>	59.3	December
-279	-227	-77	+151	+147	+79	+101	+110	+104	+63	+57	83.8	Year
<b>-306</b>	<b>-245</b>	<b>-163</b>	<b>-184</b>	<b>-130</b>	<b>-127</b>	<b>-106</b>	<b>-31</b>	<b>+39</b>	<b>+21</b>	<b>+57</b>	60.6	Winter
-236	-219	-130	+50	+50	+34	+64	+107	+105	+82	+89	67.4	Equinox
-296	-216	+63	<b>+586</b>	<b>+520</b>	<b>+330</b>	<b>+346</b>	<b>+254</b>	<b>+168</b>	<b>+85</b>	<b>+25</b>	123.4	Summer
WEST COMPONENT (Unit 0.1γ)											Y	
+295	+301	+283	<b>+327</b>	+234	+190	-34	-30	-184	-311	-348		
+453	+470	<b>+493</b>	<b>+344</b>	+135	+137	-5	-228	-364	-358	<b>-396</b>	88.9	February
<b>+847</b>	<b>+877</b>	<b>+639</b>	<b>+473</b>	<b>+379</b>	<b>+203</b>	<b>-186</b>	<b>-116</b>	<b>-249</b>	<b>-494</b>	<b>-520</b>	139.7	March
<b>+542</b>	<b>+601</b>	<b>+557</b>	<b>+423</b>	<b>+240</b>	<b>+83</b>	<b>+73</b>	<b>-12</b>	<b>-181</b>	<b>-144</b>	<b>-133</b>	87.7	April
<b>+384</b>	<b>+346</b>	<b>+392</b>	<b>+447</b>	+137	+77	+67	+51	-92	-122	-236	80.5	May
<b>+380</b>	<b>+449</b>	<b>+372</b>	<b>+357</b>	<b>+312</b>	<b>+175</b>	<b>+171</b>	<b>+143</b>	<b>-85</b>	<b>+50</b>	<b>-33</b>	94.1	June
<b>+301</b>	<b>+460</b>	<b>+472</b>	<b>+864</b>	<b>+756</b>	<b>+486</b>	<b>+315</b>	<b>+256</b>	<b>-42</b>	<b>+79</b>	<b>-174</b>	151.2	July
<b>+562</b>	<b>+497</b>	<b>+504</b>	<b>+356</b>	+96	+71	+44	-28	-5	-93	-112	91.7	August
<b>+431</b>	<b>+431</b>	<b>+343</b>	<b>+183</b>	+19	-146	-181	-269	-251	<b>-346</b>	-217	77.7	September
<b>+335</b>	<b>+401</b>	<b>+343</b>	<b>+231</b>	+131	-24	-101	-348	<b>-449</b>	-301	-177	85.0	October
<b>+320</b>	<b>+250</b>	<b>+257</b>	<b>+183</b>	-43	-215	-211	-239	<b>-273</b>	<b>-333</b>	-278	65.3	November
<b>+294</b>	<b>+257</b>	<b>+149</b>	<b>+52</b>	+62	-116	-127	-290	<b>-487</b>	-313	-161	78.8	December
<b>+429</b>	<b>+445</b>	<b>+400</b>	<b>+353</b>	<b>+205</b>	<b>+77</b>	<b>-15</b>	<b>-93</b>	<b>-222</b>	<b>-224</b>	<b>-232</b>	92.6	Year
<b>+341</b>	<b>+319</b>	<b>+295</b>	<b>+227</b>	+97	-1	-94	-197	<b>-327</b>	<b>-329</b>	-296	76.0	Winter
<b>+539</b>	<b>+577</b>	<b>+471</b>	<b>+327</b>	<b>+192</b>	<b>+29</b>	<b>-99</b>	<b>-186</b>	<b>-283</b>	<b>-321</b>	-262	97.5	Equinox
<b>+407</b>	<b>+438</b>	<b>+435</b>	<b>+506</b>	<b>+325</b>	<b>+202</b>	<b>+149</b>	<b>+105</b>	<b>-56</b>	<b>-22</b>	<b>-139</b>	104.4	Summer
VERTICAL COMPONENT (Unit 0.1γ)											Y	
-98	+36	+104	+130	<b>+228</b>	+190	+200	+136	+166	+70	+14		
-159	+59	+229	<b>+397</b>	<b>+569</b>	<b>+397</b>	<b>+375</b>	<b>+327</b>	<b>+171</b>	<b>+17</b>	<b>-13</b>	82.0	February
-98	+232	+674	<b>+880</b>	<b>+786</b>	<b>+758</b>	<b>+622</b>	<b>+302</b>	+86	-98	-170	128.8	March
-276	-86	+112	<b>+396</b>	<b>+452</b>	<b>+456</b>	<b>+326</b>	<b>+256</b>	<b>+252</b>	<b>+124</b>	<b>+66</b>	86.4	April
-167	-47	+91	<b>+287</b>	<b>+437</b>	<b>+413</b>	<b>+321</b>	<b>+249</b>	<b>+215</b>	<b>+63</b>	<b>-73</b>	73.2	May
-191	+23	+259	<b>+415</b>	<b>+461</b>	<b>+421</b>	<b>+323</b>	<b>+257</b>	<b>+163</b>	<b>+33</b>	<b>+27</b>	80.4	June
-149	-21	+651	<b>+981</b>	<b>+735</b>	<b>+407</b>	<b>+613</b>	<b>+603</b>	<b>+319</b>	<b>-87</b>	<b>-295</b>	142.6	July
+162	+280	+346	<b>+680</b>	<b>+716</b>	<b>+480</b>	<b>+348</b>	<b>+212</b>	<b>+90</b>	<b>-22</b>	<b>-122</b>	105.2	August
+29	+221	+453	<b>+585</b>	<b>+591</b>	<b>+513</b>	<b>+417</b>	<b>+279</b>	<b>+125</b>	<b>-33</b>	<b>-123</b>	102.6	September
+88	+128	+234	<b>+364</b>	<b>+382</b>	<b>+362</b>	<b>+290</b>	<b>+214</b>	<b>+58</b>	<b>-44</b>	<b>-124</b>	61.8	October
+103	+255	+333	<b>+405</b>	<b>+439</b>	<b>+339</b>	<b>+259</b>	<b>+179</b>	<b>+63</b>	<b>+23</b>	<b>-41</b>	76.8	November
+29	+137	+345	<b>+361</b>	<b>+299</b>	<b>+433</b>	<b>+379</b>	<b>+351</b>	<b>+239</b>	<b>+71</b>	<b>-27</b>	68.2	December
-61	+101	+319	<b>+490</b>	<b>+508</b>	<b>+431</b>	<b>+373</b>	<b>+280</b>	<b>+162</b>	<b>+10</b>	<b>-73</b>	87.2	Year
-31	+122	+253	<b>+323</b>	<b>+384</b>	<b>+340</b>	<b>+303</b>	<b>+248</b>	<b>+160</b>	<b>+45</b>	<b>-17</b>	66.2	Winter
-64	+124	+368	<b>+556</b>	<b>+553</b>	<b>+522</b>	<b>+414</b>	<b>+263</b>	<b>+130</b>	<b>-13</b>	<b>-88</b>	94.9	Equinox
-86	+59	+337	<b>+591</b>	<b>+587</b>	<b>+430</b>	<b>+401</b>	<b>+330</b>	<b>+197</b>	<b>-3</b>	<b>-116</b>	100.4	Summer

TABLE VIII. - NON-CYCLIC CHANGE ( $24^h$  minus  $0^h$ )

Month 1959	All Days			Quiet Days			Disturbed Days		
	Declina- tion West	Hori- zontal Inten- sity	Verti- cal Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Verti- cal Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Verti- cal Inten- sity
	'	Y	Y	'	Y	Y	'	Y	Y
January	-0.09	-0.2	+0.2	+0.22	+ 4.6	-2.0	-0.12	+ 5.6	- 2.4
February	-0.26	-1.0	+0.3	+0.72	+12.8	-4.8	-2.58	-26.0	- 0.2
March	+0.17	+0.4	-0.1	+0.12	+ 8.6	-3.2	+0.36	- 4.8	+ 2.4
April	+0.05	+0.3	+0.2	+1.02	+ 5.0	-2.8	+1.48	- 7.6	+ 9.2
May	-0.05	+0.8	-0.3	+0.10	+ 6.0	-2.0	-3.62	-36.8	- 4.0
June	+0.03	-0.7	+0.4	-0.80	+ 6.0	-1.4	-1.34	- 5.8	+ 1.2
July	-0.02	+0.7	+0.1	+0.16	+11.0	-4.0	-0.30	-10.4	- 4.4
August	-0.05	-0.5	-0.1	-0.28	+ 2.0	-0.4	+1.14	- 7.2	- 5.0
September	+0.01	+0.2	+0.1	+0.42	+ 3.8	-1.4	+1.06	+ 2.4	+10.8
October	-0.10	-0.9	-0.2	+0.70	+ 6.0	-0.8	+1.20	- 7.8	+ 4.4
November	-0.14	+0.4	+0.5	-0.16	+ 3.0	-1.2	-0.38	- 7.6	+ 1.6
December	+0.21	+0.9	-0.3	-0.22	+ 1.2	-2.2	+1.94	-13.2	+ 8.8
Year	..	..	..	+0.17	+ 5.8	-2.2	-0.10	- 9.9	+ 1.9

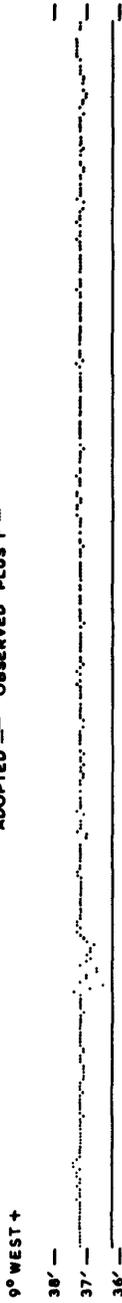
TABLE IX. - MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS

Month 1959	Declination West		Inclination		Horizontal Intensity	North Intensity	West Intensity	Vertical Intensity	Total Intensity
	o	'	o	'	c. g. s.	c. g. s.	c. g. s.	c. g. s.	c. g. s.
January	10	8.2	66	45.6	.18669	.18378	.03286	.43475	.47314
February	10	7.4	66	45.9	.18665	.18374	.03281	.43476	.47313
March	10	6.8	66	45.4	.18673	.18383	.03279	.43475	.47316
April	10	6.0	66	45.0	.18679	.18390	.03276	.43476	.47319
May	10	5.6	66	44.4	.18688	.18399	.03275	.43475	.47321
June	10	5.4	66	43.7	.18697	.18408	.03276	.43472	.47322
July	10	4.7	66	45.0	.18684	.18396	.03270	.43488	.47332
August	10	4.1	66	45.1	.18683	.18395	.03266	.43488	.47331
September	10	3.4	66	45.5	.18677	.18390	.03261	.43491	.47332
October	10	3.2	66	44.9	.18687	.18400	.03262	.43490	.47335
November	10	2.8	66	45.4	.18681	.18395	.03259	.43496	.47338
December	10	2.2	66	45.2	.18687	.18401	.03257	.43501	.47345
Year	10	5.0	66	45.1	.18681	.18392	.03271	.43484	.47326

HARTLAND 1959

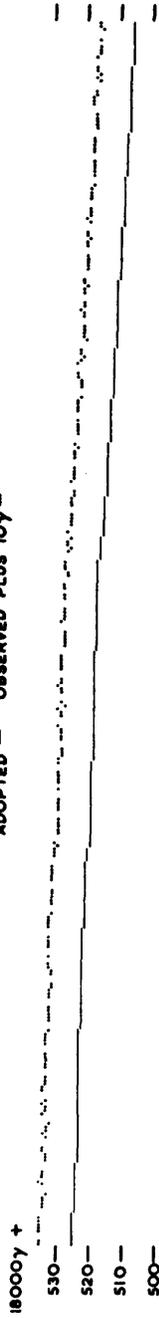
Declination base-line values

ADOPTED --- OBSERVED PLUS 1' ---



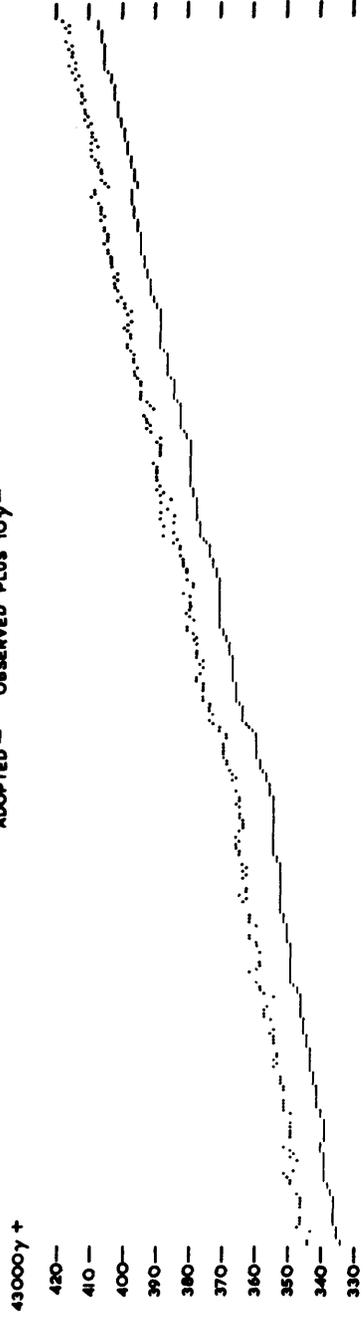
Horizontal Intensity base-line values

ADOPTED --- OBSERVED PLUS 10γ ---

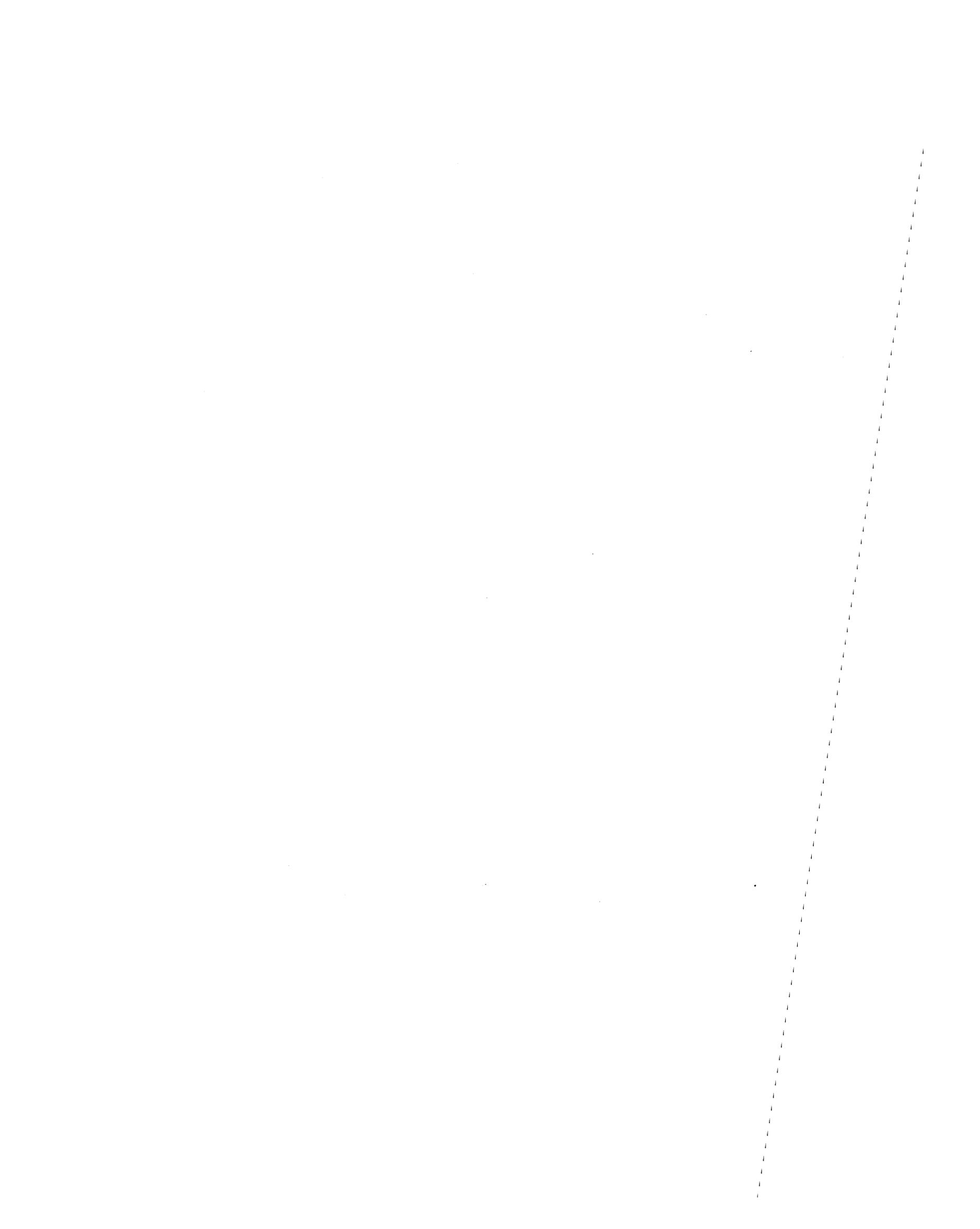


Vertical Intensity base-line values

ADOPTED --- OBSERVED PLUS 10γ ---



JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |



RESULTS OF OBSERVATIONS

1960

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
9° + Tabular Quantities																	
1 *	61.4	63.3	62.9	62.2	62.0	62.4	62.0	61.3	60.5	60.2	61.1	63.2	65.1	65.8	65.7	65.3	
2 *	61.0	61.4	62.3	62.7	62.9	62.6	61.7	61.4	60.4	59.4	60.4	62.1	64.6	66.2	65.4	65.4	
3	59.3	61.5	62.9	63.3	62.2	60.7	60.9	60.6	60.1	59.0	60.8	63.5	65.6	66.7	67.6	67.6	
4	58.6	59.5	58.3	59.4	59.0	60.2	60.7	60.7	60.2	59.5	60.3	63.0	65.5	65.3	66.8	66.6	
5	58.2	59.1	59.0	54.4	58.1	57.7	59.4	60.2	60.3	61.1	63.0	65.1	65.7	69.2	67.2	66.8	
6	57.3	59.6	57.7	57.5	59.6	60.5	61.3	61.7	62.2	63.0	63.3	63.6	65.3	65.6	66.0	65.3	
7	60.6	60.3	60.2	59.4	60.0	59.4	59.5	61.1	61.5	61.9	62.0	62.0	63.8	65.3	64.6	64.4	
8	60.1	58.0	57.5	59.5	60.5	61.4	61.4	61.4	61.2	61.2	61.5	62.2	62.3	63.1	63.4	63.9	
9 *	60.6	60.3	60.3	60.8	62.0	61.3	61.5	61.5	61.6	61.8	62.4	63.0	63.4	63.9	63.8	63.7	
10 **	61.3	61.2	61.8	61.8	62.3	61.5	62.1	60.6	62.3	62.6	65.2	66.8	66.3	68.6	67.6	68.4	
11 **	58.3	59.3	59.6	60.7	61.1	61.7	61.4	62.5	62.1	64.4	65.1	65.5	65.5	67.8	64.6	63.8	
12	61.5	61.8	60.7	60.5	61.0	61.0	60.6	60.4	60.3	61.0	62.4	62.4	64.1	64.4	63.4	60.2	
13	60.6	61.6	62.3	63.4	61.7	61.5	61.4	61.1	61.4	62.3	62.8	63.8	64.8	65.2	64.3	64.3	
14 **	61.5	63.4	55.9	56.4	58.5	60.5	60.2	60.4	62.5	62.6	64.4	65.9	66.8	66.7	66.1	64.3	
15 **	55.2	58.0	50.5	50.6	56.9	59.7	60.1	60.5	61.3	60.7	61.2	62.2	63.6	63.4	63.3	63.6	
16	60.5	61.1	60.8	61.8	62.4	61.8	61.3	60.5	60.6	60.6	61.4	62.2	63.7	63.7	63.2	62.6	
17	59.1	60.4	60.2	60.2	60.9	62.7	62.3	61.7	61.4	61.8	62.3	62.9	65.3	68.5	66.1	66.1	
18	61.1	61.1	61.6	62.1	62.5	63.2	62.6	63.3	63.5	67.0	64.0	63.8	66.0	66.5	64.3	62.8	
19	59.5	57.2	58.4	59.2	60.4	60.6	61.2	60.6	60.4	60.3	61.2	63.2	66.0	65.7	64.6	64.4	
20	60.7	59.7	60.7	59.8	61.4	61.0	61.9	60.7	61.8	61.9	63.2	65.6	64.6	63.7	65.2	66.5	
21 **	60.2	47.0	58.8	59.4	60.5	61.0	62.8	65.8	63.4	63.4	64.5	67.8	68.6	65.8	67.2	65.1	
22	57.3	58.4	62.3	61.8	63.3	62.5	62.5	62.2	63.5	63.8	64.6	64.4	66.4	66.1	66.4	64.7	
23	60.4	61.7	61.1	60.8	61.1	61.6	60.4	61.4	60.5	61.3	62.9	65.3	67.2	68.4	67.5	63.4	
24	60.0	62.4	60.7	59.4	61.5	61.5	62.2	62.1	62.4	61.5	62.2	63.6	66.1	67.2	63.3	63.2	
25	61.4	61.5	61.6	60.4	60.9	60.4	61.1	61.1	60.4	60.1	61.5	63.0	64.4	66.4	65.2	63.0	
26	60.7	61.0	61.3	61.6	62.2	60.9	61.4	60.7	60.2	59.7	61.2	62.2	63.9	65.2	65.0	63.8	
27	61.4	60.9	60.0	59.3	59.4	61.4	60.9	60.4	59.3	58.4	60.0	62.2	63.9	66.1	65.6	64.7	
28	61.2	62.4	63.5	62.0	61.7	61.4	60.9	60.3	59.4	58.2	59.3	61.8	64.2	65.3	66.3	65.5	
29	61.1	61.3	60.5	59.5	59.0	60.3	60.5	60.4	59.5	58.6	60.8	62.5	64.4	67.4	67.4	66.8	
30 *	60.7	61.4	61.7	62.0	62.2	62.2	61.6	60.8	59.4	58.0	58.5	60.5	62.8	64.4	64.6	64.0	
31 *	60.8	61.2	61.5	61.8	62.0	61.8	61.5	61.3	60.3	59.2	59.5	61.1	63.8	65.5	65.8	65.3	
Mean	60.1	60.2	60.2	60.1	60.9	61.2	61.3	61.2	61.1	61.1	62.0	63.4	65.0	65.9	65.4	64.7	
Mean *	60.9	61.5	61.7	61.9	62.2	62.1	61.7	61.3	60.4	59.7	60.4	62.0	63.9	65.2	65.1	64.7	
Mean **	59.3	57.8	57.3	57.8	59.9	60.9	61.3	62.0	62.3	62.7	64.1	65.6	66.2	66.5	65.8	65.0	
FEBRUARY																	
9° + Tabular Quantities																	
1	61.3	61.5	62.1	62.5	63.4	61.5	60.5	60.3	60.1	59.7	62.4	65.2	66.3	66.1	66.1	67.0	
2	60.8	60.4	60.2	60.2	61.3	60.7	59.8	59.8	59.3	58.5	60.5	62.4	65.3	68.1	68.5	68.9	
3	57.4	59.1	58.7	57.5	57.0	57.1	58.7	58.9	58.4	58.2	60.2	64.4	66.3	67.0	69.6	69.5	
4	54.3	57.2	57.6	59.2	58.0	60.8	58.4	58.4	58.4	60.2	62.2	62.7	64.8	65.6	65.1	64.7	
5	60.8	60.5	60.5	60.7	60.4	60.3	60.2	60.0	60.3	59.0	62.0	64.5	69.6	71.5	71.4	70.6	
6	54.5	54.5	60.6	57.8	53.3	54.9	57.3	61.1	60.7	59.1	60.4	62.0	64.5	66.2	67.1	67.3	
7 *	59.9	60.4	61.8	62.2	61.4	61.5	61.2	61.3	60.5	59.6	60.2	61.6	63.6	64.7	65.0	64.4	
8	61.2	61.2	61.3	61.3	60.8	60.8	60.2	60.3	59.8	59.4	59.3	63.1	64.1	64.4	65.7	65.6	
9 *	58.7	57.3	60.4	60.1	60.4	60.1	59.9	59.8	59.4	59.2	60.0	61.9	64.4	65.5	65.4	65.2	
10 *	61.9	61.8	62.1	62.5	62.1	61.8	61.1	60.3	59.3	59.1	60.4	63.7	65.0	65.2	64.7	63.5	
11	61.4	61.7	61.6	61.5	61.4	61.1	60.4	60.1	59.4	59.1	60.4	62.0	63.6	65.0	65.0	64.3	
12	59.1	55.5	57.6	61.5	62.1	61.4	61.1	59.9	59.1	59.3	60.4	62.3	64.3	64.8	64.8	64.4	
13	61.4	61.5	61.5	61.7	61.5	61.3	61.0	60.7	60.3	59.2	59.7	61.6	63.7	65.2	65.1	64.5	
14 **	54.3	59.4	60.2	57.3	55.6	60.4	61.0	60.7	60.6	61.2	61.5	65.0	67.2	67.5	68.2	68.5	
15	59.0	59.5	60.4	60.8	60.4	60.2	59.7	59.6	59.3	58.8	59.2	61.2	64.0	65.8	67.3	65.1	
16 **	59.3	59.4	56.7	57.8	58.3	58.8	58.1	58.8	58.7	59.1	61.6	63.8	64.2	67.1	67.8	69.2	
17 **	58.3	59.6	60.5	60.2	60.4	60.3	60.8	61.3	60.0	60.4	63.4	65.2	66.2	66.9	66.2	65.0	
18 **	54.7	56.8	59.4	55.2	55.5	61.4	62.6	61.5	60.7	62.5	62.8	65.5	67.1	67.3	65.8	64.7	
19	58.0	59.8	60.1	59.5	59.9	60.1	59.6	60.6	61.2	60.8	60.6	63.8	64.2	64.3	64.4	64.9	
20	53.3	59.3	54.2	57.4	60.1	60.4	61.4	61.5	61.2	61.4	61.4	61.7	63.4	64.4	64.4	64.4	
21 **	59.6	60.0	61.3	59.5	58.5	58.2	61.1	62.1	60.7	61.6	62.5	64.5	64.1	64.2	63.4	62.7	
22	60.3	60.4	60.4	60.4	60.4	60.2	60.3	60.7	60.5	59.9	60.6	61.7	63.5	63.4	64.7	64.0	
23	60.6	60.5	61.1	59.4	60.1	61.0	61.2	60.2	59.5	59.1	59.4	62.4	64.2	64.3	65.4	64.0	
24 *	60.9	60.6	60.6	61.0	61.4	60.6	60.3	60.0	59.8	59.3	60.1	62.2	63.6	63.6	64.3	63.6	
25 *	60.0	60.2	60.3	60.4	60.2	60.0	59.5	59.0	58.1	57.3	58.5	61.3	64.3	65.7	66.4	64.9	
26	61.3	61.3	61.3	60.8	60.4	60.2	59.4	58.7	58.2	57.2	59.1	62.8	64.3	65.6	67.2	66.8	
27	57.6	57.7	59.4	60.4	61.9	59.3	56.5	57.4	57.7	57.8	60.2	64.2	66.3	69.6	68.5	67.2	
28	60.7	61.3	61.3	61.3	60.5	60.2	59.8	58.8	58.2	58.3	61.5	63.4	66.6	68.1	68.4	66.2	
29	59.1	55.8	62.6	60.5	58.5	58.3	59.8	56.3	56.1	55.5	58.3	61.3	64.5	65.5	70.4	69.2	
Mean	59.0	59.5	60.2	60.0	59.8	60.1	60.0	59.9	59.5	59.3	60.6	63.0	64.9	66.0	66.4	65.9	
Mean *	60.3	60.1	61.0	61.2	61.1	60.8	60.4	60.1	59.4	58.9	59.8	62.1	64.2	64.9	65.2	64.3	
Mean **	57.2	59.0	59.6	58.0	57.7	59.8	60.7	60.9	60.1	61.0	62.4	64.8	65.8	66.6	66.3	66.0	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														JANUARY
/	/	/	/	/	/	/	/	/	/	h m	/	h m	/	
64.4	63.4	62.5	62.0	61.4	60.6	60.4	61.0	62.5	13 48	66.3	09 11	59.4	6.9	
65.0	64.5	63.5	62.1	61.2	60.7	60.0	59.4	62.3	13 17	66.5	09 21	58.8	7.7	
67.8	66.7	64.4	62.8	62.0	61.1	60.7	60.2	62.8	16 30	68.4	00 18	58.4	10.0	
64.4	64.7	64.5	63.3	62.0	61.5	59.9	58.3	61.8	12 26	68.5	00 36	56.7	11.8	
65.2	65.5	65.3	64.0	63.3	61.8	59.8	51.3	61.7	13 22	70.8	23 10	49.1	21.7	
64.5	65.2	64.5	63.3	62.5	61.6	60.7	60.4	62.2	14 19	66.8	00 07	54.6	12.2	
64.3	65.6	66.0	64.8	64.0	62.4	61.8	61.5	62.4	17 50	66.7	03 41	58.6	8.1	
64.3	63.8	64.1	64.1	63.8	62.0	61.5	61.0	61.8	16 11	64.5	02 16	57.2	7.3	
64.5	64.3	63.6	63.2	62.8	62.5	62.1	61.6	62.4	17 00	64.7	02 21	59.4	5.3	
64.7	62.5	63.3	61.2	44.9	49.8	54.2	57.0	61.6	13 11	72.1	20 26	38.2	33.9	
64.1	63.0	62.7	62.6	61.8	61.6	61.3	60.4	62.5	14 06	72.4	01 10	55.4	17.0	
62.4	63.4	62.0	60.7	59.4	53.0	58.5	59.7	61.0	13 16	68.5	21 10	48.1	20.4	
64.2	63.3	61.4	56.7	55.2	55.7	55.9	59.1	61.4	12 54	65.6	20 37	52.4	13.2	
63.4	63.9	65.2	67.4	60.8	52.0	52.5	56.3	61.6	18 54	66.3	22 36	45.2	21.1	
63.7	64.9	63.5	61.1	60.4	59.7	60.3	60.8	60.2	14 43	65.9	02 11	47.3	18.6	
63.1	62.4	62.4	62.1	61.7	61.2	60.0	56.3	61.6	13 02	64.6	23 17	54.6	10.0	
65.4	65.6	65.3	63.6	62.6	62.5	61.7	61.4	62.9	13 04	71.6	02 40	57.7	13.9	
62.7	62.7	63.5	62.0	61.4	58.6	58.2	59.1	62.7	09 00	69.8	21 50	56.2	13.6	
64.1	63.5	62.8	63.3	62.3	61.7	61.8	61.1	61.8	12 44	67.5	01 09	55.9	11.6	
69.4	66.0	63.5	62.6	62.1	60.8	59.2	60.7	62.6	16 12	71.3	22 38	58.3	13.0	
65.4	58.5	60.9	53.3	57.1	57.3	54.4	54.9	61.0	12 12†	75.0	01 41†	33.0	42.0	
63.4	63.2	63.3	61.7	60.8	58.2	59.1	59.4	62.5	09 59	69.5	00 16	55.4	14.1	
62.1	58.5	61.5	60.3	55.8	57.5	55.1	58.2	61.4	13 06	70.8	20 33	51.4	19.4	
62.1	57.7	60.7	61.2	59.7	59.2	60.4	61.4	61.7	13 24	68.9	17 39	55.4	13.5	
61.9	59.4	58.5	61.6	61.5	61.4	60.5	60.4	61.6	13 46	67.2	17 57	55.1	12.1	
63.4	62.6	62.1	61.4	60.7	60.3	60.1	61.3	61.8	13 42	65.9	21 56	59.2	6.7	
63.4	63.4	63.1	62.2	61.5	61.2	60.9	60.4	61.7	13 06	67.5	04 08	56.6	10.9	
63.7	63.1	62.8	62.1	60.3	61.1	61.2	60.7	62.0	14 54	67.1	09 29	57.4	9.7	
64.6	63.4	63.2	62.5	61.7	61.0	59.8	59.7	61.9	14 42	68.5	09 22	58.2	10.3	
63.8	63.5	62.8	62.3	61.6	61.1	60.5	60.6	61.7	14 23	65.0	09 42	57.4	7.6	
64.4	64.3	63.4	63.0	62.3	61.5	61.1	61.0	62.2	14 01	66.3	00 07	58.4	7.9	
64.2	63.3	63.1	62.1	60.6	59.7	59.5	59.5	61.9	-	68.1	-	54.2	13.9	
64.4	64.0	63.2	62.5	61.9	61.3	60.8	60.7	62.2	-	65.8	-	58.7	7.1	
64.3	62.6	63.1	61.1	57.0	56.1	56.5	57.9	61.4	-	70.3	-	43.8	26.5	
9° + Tabular Quantities														FEBRUARY
/	/	/	/	/	/	/	/	/	/	h m	/	h m	/	
65.6	64.5	63.4	62.5	61.4	60.6	60.6	60.8	62.7	13 07	69.5	09 01	58.4	11.1	
70.9	71.8	70.5	67.5	61.5	61.0	56.9	54.6	62.9	17 14	72.5	23 21	52.5	20.0	
66.2	66.7	66.2	62.0	60.6	59.4	58.3	55.2	61.4	14 32	71.4	23 52	50.7	20.7	
64.2	65.3	65.9	63.1	62.8	59.0	59.6	60.8	61.2	12 38	68.4	00 00	51.4	17.0	
67.9	66.3	65.8	64.8	63.0	60.6	54.8	53.9	62.9	14 35	73.6	23 19	52.4	21.2	
67.2	65.8	64.8	62.8	61.4	61.2	60.8	60.7	61.1	17 03	68.1	04 26	52.8	15.3	
63.4	62.8	61.8	61.8	61.5	61.4	61.3	61.3	61.9	14 50	65.5	10 03	59.4	6.1	
64.7	64.1	63.5	62.4	62.0	61.1	60.9	60.9	62.0	14 26	67.7	10 07	57.5	10.2	
65.1	64.4	63.2	62.2	61.7	62.0	61.4	61.6	61.6	13 27	65.9	01 42	56.2	9.7	
63.0	62.3	61.7	61.3	61.2	61.2	61.1	61.3	62.0	11 56	67.2	09 30	58.4	8.8	
64.0	63.4	64.2	61.8	60.4	58.1	59.4	60.5	61.7	18 33	65.7	21 50	57.3	8.4	
63.7	62.8	61.8	61.3	61.1	61.1	61.1	61.3	61.3	13 34	65.5	01 23	53.9	11.6	
63.6	63.0	62.2	62.1	62.0	57.3	49.8	53.0	61.0	14 10	65.6	23 01	48.2	17.4	
65.7	65.0	64.3	62.7	49.6	56.1	55.0	56.8	61.0	14 52	69.5	20 27†	42.1	27.4	
64.1	59.5	62.5	62.7	62.2	61.5	61.2	60.2	61.4	14 33	68.3	00 00	58.3	10.0	
64.9	64.6	63.3	61.9	61.5	60.4	59.0	58.4	61.4	15 14†	76.0	02 24	54.3	21.7	
65.0	67.3	66.0	66.5	65.5	61.7	56.8	56.2	62.5	18 03	69.0	22 24	54.2	14.8	
62.9	62.2	56.3	56.5	60.6	60.8	60.4	58.0	60.9	12 42	69.5	03 32	52.4	17.1	
64.4	59.2	54.0	54.3	54.6	50.2	54.6	58.4	59.6	14 08	65.8	20 50	47.1	18.7	
61.2	61.5	62.1	61.4	61.3	60.5	57.0	59.1	60.6	13 09	66.3	00 42	49.0	17.3	
59.9	58.1	61.6	61.1	57.1	59.2	60.4	60.4	60.9	12 03	66.5	16 56	53.6	12.9	
63.3	62.4	62.3	61.2	55.7	57.5	60.5	61.2	61.1	14 09	65.6	20 20	54.2	11.4	
61.8	57.3	61.6	61.7	61.4	60.2	60.3	60.9	61.2	14 04	66.1	17 31	56.3	9.8	
62.8	62.3	61.7	61.4	61.3	61.3	61.0	61.0	61.4	14 23	64.7	09 57	58.8	5.9	
63.4	62.6	62.4	61.8	61.5	60.9	60.0	61.1	61.2	14 16	66.9	09 19	56.6	10.3	
66.1	65.1	63.4	62.4	61.7	61.4	60.5	59.7	61.9	15 24	69.1	09 42	56.8	12.3	
64.2	62.7	58.4	60.4	61.4	60.4	59.5	60.1	61.2	13 32	70.4	07 02	54.4	16.0	
64.2	63.6	63.3	62.3	61.5	60.8	60.5	60.5	62.1	13 30	68.6	09 14	57.2	11.4	
66.4	64.8	64.0	63.3	63.8	58.5	56.7	58.1	61.1	14 32	71.6	09 10	54.1	17.5	
64.5	63.5	62.8	62.0	60.7	59.8	58.9	59.2	61.5	-	68.3	-	54.1	14.2	
63.5	62.9	62.2	61.7	61.4	61.4	61.0	61.3	61.6	-	66.0	-	57.9	8.2	
63.7	63.4	62.3	61.7	58.9	59.6	58.3	58.0	61.3	-	70.1	-	51.3	18.8	

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	
<b>MARCH</b>																		
9° + Tabular Quantities																		
1	59.8	59.6	58.6	58.4	56.9	57.1	59.8	58.1	58.4	58.5	60.2	63.6	65.3	65.4	66.8	67.8		
2 **	59.4	57.9	50.5	57.2	57.6	58.4	59.1	57.9	58.7	60.6	60.1	64.2	67.0	68.6	66.8	67.4		
3 **	57.6	57.6	56.6	55.7	58.4	57.3	56.6	59.6	60.6	61.6	61.5	65.5	66.9	69.1	69.4	68.3		
4	57.3	58.3	58.7	58.4	59.9	59.5	59.1	58.6	58.5	58.6	60.3	65.0	65.7	68.4	72.2	67.7		
5	57.0	57.6	57.9	57.7	58.6	57.6	56.3	58.3	60.1	59.3	61.0	63.9	66.4	69.3	67.4	67.5		
6	58.0	59.1	58.9	59.4	61.2	61.2	60.1	59.5	58.2	58.4	59.3	61.6	64.9	66.6	66.8	65.4		
7 *	59.8	60.4	60.4	60.4	60.3	60.1	60.1	58.6	57.1	57.0	58.6	62.1	65.8	67.8	68.2	66.5		
8	61.2	61.1	61.3	61.1	60.4	59.4	61.3	62.3	58.9	57.1	58.8	63.2	68.6	68.9	69.2	67.3		
9	59.4	60.5	60.3	60.9	61.2	59.7	60.3	58.9	57.3	57.7	59.4	62.6	66.4	67.5	67.7	65.5		
10	61.4	61.4	60.9	60.5	59.7	59.4	59.2	58.6	57.6	61.4	61.8	63.5	67.3	68.3	68.5	68.0		
11 **	61.1	60.7	58.4	59.6	60.3	63.4	61.2	60.6	59.3	58.6	61.5	64.0	67.7	68.8	69.0	66.7		
12	61.4	62.5	61.7	60.8	59.4	58.9	58.6	58.2	58.4	59.2	60.4	63.7	66.2	67.6	66.6	65.8		
13 *	59.6	60.3	61.9	60.8	60.5	60.1	59.0	57.9	55.5	55.1	56.6	61.1	66.0	68.2	67.9	66.2		
14	61.3	60.9	60.8	60.8	60.6	60.4	59.6	58.5	56.5	56.6	60.5	62.8	66.3	67.7	67.6	67.7		
15	60.4	60.3	60.4	60.4	60.3	59.9	59.3	57.6	55.7	55.3	57.6	61.6	66.4	69.0	70.9	71.7		
16 **	45.2	47.3	41.0	37.2	43.0	49.2	55.5	56.9	56.2	58.9	59.4	62.1	65.9	67.2	67.9	66.7		
17	58.7	61.9	61.6	62.6	61.7	59.4	58.7	58.4	57.6	56.3	58.4	62.4	66.3	68.1	68.9	67.5		
18	60.1	59.5	61.9	60.7	58.9	60.6	62.7	59.3	57.3	56.4	57.1	60.1	63.7	66.2	66.7	65.6		
19	60.9	60.3	58.8	58.9	59.4	59.7	59.8	58.7	56.6	57.9	58.8	61.4	64.6	67.2	67.7	67.3		
20 *	60.3	60.7	59.9	59.8	60.4	60.9	60.1	58.3	56.4	56.6	58.2	61.3	64.3	65.6	65.7	64.5		
21	60.1	60.2	59.9	59.8	59.6	59.4	59.3	57.4	56.1	56.3	57.7	60.7	64.6	65.7	66.2	65.4		
22 *	60.1	59.9	59.7	59.6	60.1	58.7	58.7	57.6	56.2	56.0	57.7	61.3	64.6	65.4	65.4	65.1		
23 *	61.4	60.4	59.4	58.9	59.1	59.4	59.2	58.4	56.9	57.4	59.5	62.7	65.8	68.0	67.9	66.5		
24	58.7	63.4	60.3	56.8	56.5	56.5	57.1	56.8	56.7	56.8	58.8	62.4	65.3	67.2	67.1	67.3		
25	60.9	60.7	60.6	60.3	59.5	59.7	59.8	58.5	57.0	57.2	59.6	63.6	67.1	68.1	66.6	64.7		
26	57.8	58.3	60.6	59.6	59.2	58.7	57.9	56.6	56.0	57.6	60.1	63.7	66.7	68.5	67.2	65.7		
27	60.6	60.4	59.9	58.9	59.5	58.9	58.1	55.9	55.3	55.9	58.4	62.4	67.3	69.3	69.0	67.6		
28	60.7	60.4	60.1	59.6	58.8	58.5	58.6	57.2	55.5	56.3	61.2	66.5	67.3	68.9	69.5	69.6		
29	57.8	54.1	55.4	55.2	57.6	59.1	56.6	55.2	56.3	55.2	57.3	61.9	65.7	68.1	68.4	66.4		
30	58.7	55.5	56.6	58.5	57.5	57.2	58.5	56.5	54.8	55.4	58.6	62.3	68.7	69.5	71.7	70.9		
31 **	52.6	47.7	47.7	50.0	53.0	52.8	54.3	56.0	54.2	54.3	55.9	54.7	68.4	68.3	73.8	78.5		
Mean	59.0	59.0	58.4	58.3	58.7	58.7	58.9	58.1	57.1	57.4	59.2	62.4	66.2	67.8	68.2	67.4		
Mean *	60.2	60.3	60.3	59.9	60.1	59.8	59.4	58.2	56.4	56.4	58.1	61.7	65.3	67.0	67.0	65.8		
Mean **	55.2	54.2	50.8	51.9	54.5	56.2	57.3	58.2	57.8	58.8	59.7	62.1	67.2	68.4	69.4	69.5		
<b>APRIL</b>																		
9° + Tabular Quantities																		
1 **	17.3	46.9	45.2	52.5	55.3	48.6	48.8	48.9	46.3	50.0	64.1	64.9	69.1	68.9	70.6	75.2		
2	50.0	58.1	44.2	53.7	63.7	60.4	60.6	62.7	59.1	55.3	55.7	59.3	61.1	63.4	63.8	62.7		
3 **	56.4	50.5	58.1	61.2	64.6	59.1	72.0	64.3	56.2	55.4	57.1	58.1	60.6	61.6	61.4	61.1		
4	58.1	57.6	57.3	57.1	57.4	57.1	56.1	54.3	52.7	55.2	57.1	60.3	62.4	64.3	63.3	63.3		
5	59.9	59.5	55.7	56.6	58.7	58.7	58.0	54.3	53.7	54.9	57.8	61.6	65.0	68.7	69.4	60.9		
6	59.8	59.3	58.6	58.0	57.6	57.3	56.8	54.3	54.2	56.0	58.9	63.2	66.5	66.7	65.7	63.6		
7	60.4	60.3	56.4	55.0	54.6	55.3	54.2	54.3	53.5	54.4	57.4	61.4	64.7	66.2	66.6	67.0		
8	59.4	60.6	60.5	60.4	57.3	55.9	55.0	56.1	53.7	55.8	59.7	64.5	66.6	66.9	66.3	64.6		
9 *	57.9	57.6	59.9	62.3	59.5	58.4	59.1	56.5	56.1	58.9	59.1	62.7	65.4	66.5	65.5	64.1		
10	59.2	59.5	57.6	56.9	55.6	56.1	57.6	57.5	55.3	56.8	59.5	63.4	68.3	71.0	72.5	70.5		
11	50.4	52.0	53.3	54.5	57.8	60.5	58.7	55.2	54.4	54.8	57.8	61.4	66.1	68.3	68.5	67.2		
12	59.1	55.1	53.4	54.5	56.1	57.3	56.1	56.5	56.4	55.6	53.8	57.9	63.5	65.7	64.6	63.5		
13	57.8	58.3	63.1	59.8	58.1	63.9	63.5	62.1	58.3	55.6	57.5	61.6	65.4	66.7	65.8	64.1		
14	61.9	60.8	58.0	57.8	58.9	57.7	57.9	55.3	53.2	53.0	56.0	60.6	63.8	66.3	66.4	65.4		
15	55.8	57.4	59.0	57.3	62.3	65.1	55.8	54.1	53.3	53.6	56.5	60.2	63.7	66.5	67.4	67.6		
16	58.6	57.6	58.4	58.1	58.5	57.6	56.6	53.7	52.5	53.6	57.4	62.8	68.6	72.6	71.3	74.4		
17	53.9	58.5	61.5	57.0	56.4	56.7	55.2	53.0	52.6	54.1	56.8	59.8	64.8	68.7	68.4	67.3		
18	58.9	65.2	58.5	58.3	57.2	56.5	58.4	58.0	55.1	56.1	59.4	62.0	64.8	66.6	66.8	65.8		
19 *	58.6	58.8	58.5	58.7	59.4	56.8	55.1	53.4	53.3	54.3	57.1	59.3	62.6	65.1	64.7	63.7		
20 *	59.4	59.1	58.9	58.5	58.1	57.4	54.9	53.4	51.8	52.4	55.1	59.3	63.4	66.3	66.1	65.3		
21 **	59.6	59.3	58.8	58.3	57.6	56.2	54.3	52.8	52.7	54.2	57.1	60.3	64.1	65.9	66.3	65.4		
22 *	58.4	59.2	58.7	58.5	58.1	57.7	57.1	55.6	55.4	56.4	59.3	62.3	64.9	66.9	66.1	64.1		
23	60.9	60.3	59.5	58.6	58.2	55.1	52.6	51.3	52.0	55.6	60.4	63.1	66.1	68.0	66.8	65.8		
24 **	41.3	33.3	38.2	50.3	52.8	50.3	48.4	48.3	51.0	54.1	60.8	65.3	69.9	73.5	69.5	68.4		
25	59.1	50.8	50.7	54.5	53.6	53.7	57.9	54.1	52.6	56.7	60.9	64.4	69.0	72.6	70.7	70.2		
26	59.3	57.7	55.5	55.3	57.6	56.3	56.7	56.4	57.7	57.6	58.1	62.2	66.7	68.9	69.7	67.7		
27	59.2	59.1	59.6	59.1	57.4	56.0	54.0	53.4	53.3	54.5	58.6	62.7	66.7	69.7	69.7	68.3		
28 **	39.5	43.6	40.4	41.2	51.2	50.7	52.3	58.7	52.8	61.6	63.3	64.3	69.7	71.3	72.6	77.0		
29	59.3	57.6	48.4	53.7	57.6	64.7	55.5	58.5	56.6	57.9	58.5	61.6	63.7	64.7	67.2	66.3		
30 **	57.4	56.2	50.7	45.7	46.4	51.3	49.2	50.3	50.1	50.7	53.7	58.4	55.3	71.4				

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														MARCH
										h m	h m			
67.6	66.2	67.6	62.9	55.8	56.6	57.2	59.6	61.2	15 33	70.4	20 18	52.4	18.0	1
66.2	62.6	62.2	61.6	60.7	59.6	54.8	57.6	60.7	13 38	70.6	02 30	48.6	22.0	2 **
64.0	64.1	60.2	61.6	60.5	60.4	59.9	56.1	61.2	15 07	71.9	23 16	52.2	19.7	3 **
68.7	68.2	65.2	62.4	60.6	61.2	56.3	57.1	61.8	14 58	76.7	22 36	54.3	22.4	4
66.4	65.1	64.7	64.0	60.5	60.8	58.3	56.7	61.4	13 45	70.7	22 58	55.3	15.4	5
64.1	62.6	61.5	58.4	55.0	60.1	60.6	59.7	60.9	13 53	67.2	20 23	53.5	13.7	6
63.9	63.3	63.3	62.5	62.1	61.6	61.2	61.2	61.8	13 53	68.6	08 52	56.3	12.3	7 *
65.1	62.6	61.9	61.3	61.4	61.6	60.2	58.2	62.2	14 39	70.1	09 24	55.7	14.4	8
64.5	63.1	62.3	61.7	61.5	61.3	60.9	61.3	61.7	14 33	68.8	08 57	55.6	13.2	9
65.5	62.5	60.7	54.5	57.6	59.6	61.0	61.5	61.7	15 03	70.9	19 50	51.5	19.4	10
64.3	60.0	57.9	60.6	59.1	60.3	60.5	60.8	61.9	12 10	70.9	18 01	53.1	17.8	11 **
62.6	60.6	61.8	61.2	61.1	60.5	58.5	59.4	61.5	13 12	68.4	08 04	56.5	11.9	12
63.3	61.2	59.4	60.3	59.5	59.4	59.1	60.5	60.8	13 34	68.6	09 17	54.6	14.0	13 *
64.6	63.2	62.8	62.5	62.0	61.5	60.9	60.7	62.0	15 28	68.8	08 08	55.6	13.2	14
73.9	69.5	67.4	57.0	62.6	59.3	58.2	53.3	62.0	16 10	75.1	24 00	45.4	29.7	15
65.0	61.6	59.7	55.6	53.3	58.5	53.3	58.6	56.1	14 41	69.5	02 45	30.5	39.0	16 **
65.0	62.8	61.1	58.7	54.8	56.8	58.8	59.4	61.1	14 20	69.6	20 13	49.9	19.7	17
63.5	61.7	61.4	61.3	61.1	60.4	59.4	56.3	60.9	14 18	67.1	08 49	54.6	12.5	18
65.2	62.8	61.4	60.6	60.3	60.9	61.1	60.6	61.3	13 50	69.2	08 38	55.1	14.1	19
63.3	62.0	61.7	61.6	61.3	60.9	60.9	60.5	61.1	14 29	65.8	08 48	54.8	11.0	20 *
63.9	62.4	61.6	61.5	60.9	60.9	60.7	60.4	60.9	13 38	67.8	08 31	55.4	12.4	21
63.9	62.6	61.9	61.8	61.3	61.2	60.7	61.6	60.9	14 03	66.9	09 18	54.6	12.3	22 *
64.2	62.5	62.3	61.7	61.5	61.4	58.0	58.4	61.3	13 58	68.6	08 27	56.4	12.2	23 *
65.2	62.9	63.2	60.1	60.2	60.9	61.8	61.2	61.0	15 39	69.1	03 54	55.3	13.8	24
62.4	60.9	59.7	59.8	60.4	60.7	61.1	57.9	61.1	13 12	69.1	23 50	52.4	16.7	25
63.3	62.4	61.6	61.2	61.1	61.1	61.2	60.6	61.1	13 39	69.0	00 00	54.1	14.9	26
65.5	63.5	62.5	61.6	61.2	61.4	61.3	61.0	61.5	13 33	69.6	08 19	54.6	15.0	27
67.8	64.2	62.9	61.8	51.1	51.7	55.6	56.5	60.8	16 04	70.3	20 25	48.6	21.7	28
64.3	62.5	61.2	61.5	61.7	61.2	60.5	60.9	60.2	14 24	69.4	01 42	52.3	17.1	29
68.5	65.7	64.8	62.6	62.1	54.9	53.7	54.5	60.7	14 40	72.7	21 45	48.4	24.3	30
89.8	77.1	74.2	72.3	66.8	59.2	46.4	44.2	60.5	16 38†	99.2	24 00†	29.4	69.8	31 **
66.0	63.6	62.6	61.2	60.0	59.9	58.8	58.6	61.1	-	70.7	-	51.8	18.8	Mean
63.7	62.3	61.7	61.6	61.1	60.9	60.0	60.4	61.2	-	67.7	-	55.3	12.4	Mean *
69.9	65.1	62.8	62.3	60.1	59.6	55.0	55.5	60.1	-	76.4	-	42.8	33.7	Mean **
9° + Tabular Quantities														APRIL
										h m	h m			
76.7	69.4	51.2	53.2	67.5	52.3	49.2	50.5	55.9	16 52	100.9	00 14†	6.5	94.4	1 **
61.8	60.7	59.3	59.4	59.3	59.3	58.3	58.6	58.8	04 34	65.9	02 29	34.8	31.1	2
61.1	60.1	60.3	60.4	60.3	59.3	58.9	58.7	59.9	06 13	77.7	01 40	43.7	34.0	3 **
61.2	59.4	58.9	60.7	59.2	55.9	54.6	57.8	58.4	13 38	66.0	21 56	48.2	17.8	4
62.4	62.7	62.0	62.3	62.3	60.9	59.9	59.8	60.2	14 17	70.6	07 53	50.6	20.0	5
62.6	62.1	61.8	60.3	55.3	50.5	57.3	60.6	59.5	13 20	67.3	21 39	48.9	18.4	6
65.4	62.3	60.4	52.1	53.7	55.9	52.8	57.9	58.4	15 16	69.0	22 30	50.4	18.6	7
61.0	56.8	59.2	59.3	59.8	60.4	60.4	59.5	60.0	13 43	67.6	08 24	52.5	15.1	8
62.6	61.2	60.5	60.5	60.3	60.5	60.6	60.5	60.7	13 30	66.6	05 03	54.5	12.1	9 *
66.5	64.2	56.7	53.4	56.7	50.5	50.5	48.4	59.3	14 10	74.0	23 46	42.2	31.8	10
63.9	62.2	59.3	58.6	59.8	57.4	57.4	56.1	59.0	13 51	69.6	00 00	44.2	25.4	11
60.9	59.6	58.3	58.8	60.3	56.9	55.4	58.5	58.2	00 03	66.9	02 26	48.0	18.9	12
62.2	60.5	60.4	59.2	58.5	59.9	60.1	60.2	60.9	13 23	67.6	09 46	54.6	13.0	13
63.8	61.1	58.4	59.6	60.2	57.4	59.2	57.9	59.6	13 47	66.9	08 58	51.8	15.1	14
65.3	63.2	62.1	61.7	61.2	60.8	60.3	59.1	60.4	05 11	76.0	08 42	52.0	24.0	15
71.6	61.8	62.5	61.5	55.3	57.5	59.5	57.1	60.8	15 37	76.6	20 42	51.6	25.0	16
66.3	65.1	62.2	60.7	59.6	54.4	54.4	57.6	59.4	13 34	70.4	00 18	45.7	24.7	17
64.2	60.8	60.1	60.5	60.8	60.6	59.8	58.1	60.5	01 30	67.6	08 53	54.5	13.1	18
62.5	61.4	60.5	60.4	60.6	60.5	60.3	59.7	59.4	13 34	65.4	07 49	52.6	12.8	19 *
64.1	62.5	61.4	61.2	61.0	60.8	60.5	59.9	59.6	13 47	66.6	08 08	51.5	15.1	20 *
65.1	62.9	61.7	61.9	61.8	61.4	61.4	60.4	60.0	14 47	66.6	08 14	52.3	14.3	21 *
62.3	60.9	60.5	60.6	61.3	61.3	61.1	61.4	60.3	13 22	67.1	07 24	54.7	12.4	22 **
63.7	62.1	61.6	62.1	61.6	58.2	54.0	53.9	59.6	13 19	68.4	24 00	46.6	21.8	23
65.8	63.9	58.4	55.5	56.6	56.0	50.2	51.2	55.5	13 00	74.7	01 24	30.0	44.7	24 **
66.7	60.4	61.3	60.4	58.9	57.5	55.7	53.7	59.4	14 04	75.7	01 28	45.6	30.1	25
65.8	63.7	61.1	58.7	57.9	57.6	58.4	59.7	60.3	13 50	70.3	03 28	54.5	15.8	26
65.6	62.6	61.1	59.9	61.9	59.4	50.6	44.3	59.4	14 08	70.5	23 41	33.1	37.4	27
76.0	72.3	69.6	60.4	55.0	60.4	59.6	57.5	59.2	16 00	79.7	03 13	33.0	46.7	28 **
65.6	63.5	61.1	60.1	59.4	59.9	57.5	60.1	60.0	14 06	68.1	02 10	42.6	25.5	29
105.3	106.1	68.6	65.2	68.1	62.9	56.1	58.4	62.6	17 35†	149.5	12 46	39.5	110.0	30 **
66.3	63.9	60.7	59.6	59.8	58.2	57.1	57.2	59.5	-	73.7	-	45.7	28.0	Mean
63.3	61.8	60.9	60.9	61.0	60.9	60.8	60.4	60.0	-	66.5	-	53.1	13.3	Mean *
77.0	74.4	61.6	58.9	61.5	58.2	54.8	55.3	58.6	-	96.5	-	30.5	66.0	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
9° + Tabular Quantities																	
1 **	59.8	60.4	55.3	54.3	53.2	58.6	49.4	48.3	47.3	51.7	54.6	58.2	60.6	61.6	62.4	61.8	
2	58.3	59.8	60.3	59.0	59.1	56.6	52.4	53.1	52.5	53.4	56.8	59.5	61.7	62.8	62.3	61.6	
3	58.4	58.2	58.3	58.8	58.9	57.7	56.6	56.1	57.0	57.3	57.8	59.8	62.8	65.2	64.9	63.5	
4 *	58.7	59.2	58.4	57.8	57.3	56.3	55.0	53.7	52.4	52.3	53.7	57.5	60.6	62.6	62.8	63.3	
5	58.7	58.7	58.4	57.7	57.1	56.3	54.3	53.9	53.9	54.6	57.2	60.7	63.9	64.8	64.1	63.4	
6 **	56.9	58.1	57.7	58.6	55.3	55.1	53.7	54.4	53.6	55.6	60.6	65.3	71.7	72.0	72.0	70.8	
7 **	53.7	64.1	54.9	55.1	51.8	51.6	52.6	52.7	51.7	53.3	58.1	59.6	63.7	65.8	65.2	65.4	
8 **	60.8	59.1	58.4	59.1	64.6	57.3	56.8	56.2	54.5	55.3	62.4	62.3	68.5	66.7	68.4	65.7	
9	59.3	57.3	56.3	55.7	55.7	54.3	52.6	53.6	55.2	57.8	61.3	64.5	65.8	65.4	64.6	62.9	
10	59.8	59.7	60.4	58.9	57.4	55.9	54.7	54.8	55.7	55.8	58.9	62.6	64.4	64.9	65.2	63.2	
11	57.6	58.2	59.4	56.8	58.6	64.7	56.8	60.3	61.1	58.7	57.4	59.7	61.4	63.1	62.4	61.5	
12	57.4	57.7	57.4	57.3	59.8	60.1	56.4	53.2	52.2	53.1	54.9	59.4	62.3	63.9	64.6	64.9	
13	57.7	58.4	57.4	57.6	57.2	55.3	54.7	54.4	53.9	55.4	59.6	62.1	64.6	65.9	66.1	64.8	
14	57.6	58.6	60.3	60.2	60.2	61.1	57.7	56.3	56.1	57.4	59.8	63.7	67.6	68.2	67.0	65.9	
15	59.8	59.8	59.6	59.8	58.4	55.3	52.5	51.2	51.8	54.1	57.6	61.5	65.7	67.5	67.4	65.6	
16	59.6	58.9	59.0	58.3	57.9	57.1	54.8	52.3	51.3	52.6	56.3	60.7	65.1	67.4	73.2	72.5	
17	59.3	58.4	58.6	58.8	57.9	56.6	53.7	52.3	50.5	52.3	55.6	59.4	62.5	64.8	63.3	63.0	
18 *	59.2	59.2	60.2	59.1	57.9	56.0	54.2	53.0	52.5	53.5	56.0	58.6	61.3	62.3	62.4	61.9	
19 *	58.8	58.4	58.1	57.2	56.2	54.5	53.7	52.2	53.2	54.1	55.6	58.7	61.5	63.8	63.4	61.4	
20 *	60.9	60.4	59.5	58.6	58.6	55.1	52.1	51.4	52.5	55.3	58.5	61.9	65.0	65.2	64.1	62.7	
21	61.0	59.8	58.5	57.9	57.1	55.3	55.1	55.5	55.8	57.9	61.4	64.1	66.4	67.3	64.7	62.6	
22 *	59.5	59.5	58.9	58.6	57.8	56.0	54.3	53.7	54.1	55.7	59.6	62.4	64.7	66.3	66.9	66.8	
23	60.3	59.3	58.8	58.3	56.9	55.1	54.3	54.1	54.5	57.4	60.9	64.1	67.3	69.1	69.9	68.6	
24	59.7	54.6	54.6	61.5	58.6	57.9	62.8	58.7	57.1	59.3	60.6	64.3	67.2	67.7	68.8	67.5	
25	53.3	53.6	54.3	54.6	57.7	55.3	52.8	51.7	51.5	54.1	58.9	62.6	67.4	70.5	70.5	69.3	
26	59.3	53.4	54.0	53.4	56.0	54.3	52.0	52.6	52.7	53.7	57.1	60.6	65.1	66.6	66.8	65.4	
27	56.7	53.3	56.1	51.1	54.5	53.8	52.5	51.2	51.5	54.3	57.6	61.3	64.4	65.9	66.1	65.7	
28	57.4	57.2	59.6	58.5	57.1	54.9	53.8	53.8	54.7	56.0	58.8	61.4	64.4	66.5	67.0	66.3	
29 **	62.4	45.5	53.7	47.7	51.0	49.7	50.3	51.6	52.3	55.1	58.1	61.4	64.4	67.2	66.5	66.7	
30	59.2	59.4	58.8		57.1	56.3	54.9	55.1	57.3	60.1	60.8	61.6	63.0	63.9	62.4	60.4	
31	59.5	59.8	61.8	61.9	59.4	57.3	53.6	52.3	52.8	53.6	56.5	59.5	63.6	65.4	66.8	65.3	
Mean	58.7	58.0	57.4	57.5	57.3	55.9	54.3	53.7	53.7	55.2	58.2	61.3	64.5	65.8	65.9	64.9	
Mean *	59.4	59.3	59.0	58.3	57.6	55.6	53.9	52.8	52.9	54.2	56.7	59.8	62.6	64.0	63.9	63.2	
Mean **	58.7	57.4	52.4	55.0	55.2	52.9	52.6	52.6	51.9	54.2	58.8	61.4	65.8	66.7	66.9	66.1	
JUNE																	
9° + Tabular Quantities																	
1	56.3	54.5	52.5	52.9	50.0	55.2	59.1	57.3	56.3	55.4	60.6	63.4	64.8	64.6	63.6	64.8	
2 *	58.8	57.8	58.2	57.6	56.8	55.2	53.2	51.6	51.2	52.8	55.1	58.2	60.9	62.0	63.6	64.3	
3	59.2	58.5	58.0	57.5	56.4	54.9	52.6	51.3	50.9	53.3	56.7	59.7	61.9	64.3	65.3	65.2	
4 **	57.2	53.9	53.2	47.0	45.6	45.5	45.3	44.5	56.9	54.3	60.3	62.4	64.7	66.5	68.7	67.9	
5	55.8	53.4	54.1	61.4	56.0	57.2	56.3	57.9	58.6	58.4	57.3	59.5	63.1	64.5	64.4	64.3	
6	56.9	61.5	58.4	55.7	54.2	52.9	53.0	51.4	53.5	55.2	59.5	63.4	67.1	67.3	64.9	64.5	
7	57.1	59.5	57.4	55.6	53.1	53.3	52.6	51.4	51.8	54.2	57.9	61.8	64.8	67.5	65.4	64.5	
8	59.9	59.7	59.9	60.6	61.8	54.5	52.2	51.3	53.3	56.1	59.1	62.3	63.8	65.3	65.8	65.4	
9	59.4	56.2	57.1	58.7	61.3	59.1	56.3	52.0	52.2	54.3	58.1	62.1	65.2	67.8	67.2	65.4	
10 *	59.8	59.6	59.4	57.4	56.4	54.3	51.9	51.7	51.8	53.9	58.3	61.6	63.4	64.8	65.1	64.2	
11 *	60.2	60.6	60.3	57.4	56.3	53.5	51.8	51.3	51.5	53.7	58.3	62.8	65.3	65.7	66.2	65.3	
12 *	59.5	59.0	58.5	58.1	56.6	54.5	53.2	52.5	52.3	53.3	55.1	57.7	61.5	63.9	66.0	65.7	
13	59.5	59.8	58.4	56.9	55.3	54.4	53.2	52.1	52.5	52.7	55.0	57.1	59.4	61.6	63.0	63.6	
14	59.9	60.9	60.7	57.8	56.1	55.2	55.3	56.2	54.3	54.2	55.3	58.3	61.2	64.9	65.7	65.4	
15	59.7	60.7	60.5	58.1	56.0	54.3	53.2	53.7	54.9	56.8	57.8	60.6	63.8	64.9	64.5	64.4	
16 *	60.3	59.3	59.6	60.4	58.1	55.6	55.6	54.3	53.0	53.3	55.4	58.2	60.2	60.5	61.6	62.1	
17	59.5	59.4	57.4	57.2	56.7	55.8	54.4	54.1	53.4	54.6	57.6	60.7	62.9	64.0	64.5	63.3	
18	60.3	60.5	60.7	57.7	56.2	55.8	54.4	53.3	53.2	54.4	56.8	60.5	64.4	65.4	65.4	63.5	
19	58.8	59.8	59.6	55.1	53.7	55.0	56.0	56.6	56.1	56.8	59.2	62.2	63.6	65.7	65.2	64.1	
20	57.5	57.3	57.7	59.3	55.6	52.9	51.4	51.0	50.7	53.8	57.8	61.4	64.6	66.4	65.4	63.6	
21	57.3	56.2	56.0	57.2	57.9	54.8	54.0	53.0	53.0	55.3	59.3	62.1	65.0	67.5	67.1	66.5	
22	57.7	56.3	55.6	56.0	51.1	51.3	53.3	52.7	53.8	57.7	60.4	64.3	67.0	67.8	66.8	65.7	
23	54.2	54.2	50.5	52.3	51.5	50.6	50.7	51.3	52.4	54.2	56.7	60.3	64.7	67.3	66.7	66.4	
24	58.2	58.2	56.1	55.1	54.3	52.2	50.5	52.1	53.6	53.8	57.7	60.6	64.4	66.3	65.4	65.4	
25	53.1	54.5	58.6	56.4	55.6	53.1	52.2	52.0	53.3	56.2	58.6	62.3	66.4	67.7	68.2	68.7	
26	55.3	55.2	54.1	51.8	51.3	52.3	54.7	53.0	52.3	54.4	55.7	58.1	61.6	62.7	63.6	64.6	
27 **	60.2	57.4	57.8	52.6	55.6	54.7	54.2	51.5	49.5	50.4	52.0	53.6	57.3	60.6	62.9	64.1	
28 **	54.7	54.5	54.2	55.5	54.9	53.6	49.6	48.1	47.5	52.8	56.3	60.8	65.2	68.0	68.6	67.5	
29 **	56.4	55.5	58.5	54.7	53.1	51.5	50.6	49.5	51.5	53.4	56.0	59.4	62.3	64.6	64.3	64.4	
30 **	50.5	42.4	56.4	52.1	55.1	52.5	51.2	50.6	51.3	53.9	55.7	57.7	60.3	62.8	64.4	65.7	
Mean	57.8	57.2	57.3	56.2	55.1	53.9	53.1	52.3	52.9	54.5	57.3	60.4	63.4	65.1	65.3	65.0	
Mean *	59.7	59.3	59.2	58.2	56.8	54.6	53.1	52.3	52.0	53.4							

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities													MAY	
									h	m	h	m		
60.5	59.3	57.7	55.2	54.6	53.8	58.0	57.9	56.1	01 08	71.7	05 11	41.1	30.6	1 **
60.3	59.0	58.2	57.4	55.7	58.2	58.8	58.8	58.3	13 26	63.9	09 17	50.6	13.3	2
61.5	59.8	59.0	59.0	59.4	59.7	59.6	59.0	59.5	13 56	65.9	07 23	55.5	10.4	3
62.4	61.1	59.6	59.7	59.6	56.4	56.4	57.8	58.1	15 03	63.6	08 46	51.8	11.8	4 *
62.4	61.2	60.1	60.5	57.2	56.3	58.8	57.9	58.8	13 20	65.6	06 41	52.5	13.1	5
69.7	67.5	54.7	53.7	55.4	57.3	48.9	53.6	59.7	14 12	73.6	21 59	38.6	35.0	6 **
66.8	63.6	57.6	57.1	58.3	59.7	61.9	61.0	58.6	16 32	68.8	09 30	48.4	20.4	7 **
70.7	68.3	62.4	63.4	63.8	61.1	58.9	62.4	62.0	16 28	78.6	09 21	42.4	36.2	8 **
60.5	58.7	59.1	59.7	59.5	59.5	59.8	59.8	59.1	12 03	66.5	06 31	50.6	15.9	9
61.4	60.8	59.3	58.1	59.4	59.9	58.4	58.2	59.5	14 34	65.6	06 36	53.1	12.5	10
61.1	60.3	59.4	58.4	58.2	58.6	57.4	56.7	59.5	05 28	69.8	04 35	53.5	16.3	11
64.3	62.9	61.6	60.8	60.8	60.2	60.3	58.9	59.4	14 46	66.0	08 47	49.4	16.6	12
63.2	61.8	60.7	59.4	57.6	57.6	54.5	55.2	59.0	13 34	66.9	05 43	53.2	13.7	13
64.3	62.2	61.3	60.6	60.5	58.5	59.6	60.1	61.0	13 10	68.6	06 40	55.5	13.1	14
63.3	60.3	59.1	59.5	59.6	60.1	59.9	59.8	59.6	14 24	67.8	06 50	50.3	17.5	15
79.5	67.8	63.7	63.3	61.4	60.6	61.9	59.1	61.4	16 32	†81.7	08 21	50.0	31.7	16
62.0	60.3	59.6	59.7	60.1	59.8	59.1	59.1	58.6	13 11	67.3	06 33	48.4	18.9	17
61.0	60.4	60.2	59.7	60.4	60.8	60.8	60.2	58.8	14 06	62.8	07 53	52.3	10.5	18 *
59.5	58.4	58.2	59.5	60.0	60.3	61.1	61.3	58.3	13 36	64.6	07 32	50.6	14.0	19 *
60.9	59.6	59.4	59.5	59.6	60.2	60.7	60.9	59.3	13 16	65.6	07 40	51.0	14.6	20 *
60.8	59.6	59.8	60.6	60.8	60.4	60.3	59.8	60.1	13 39	67.6	05 33	54.5	13.1	21
64.2	62.2	60.6	60.4	60.7	60.3	60.3	60.1	60.2	14 45	68.6	07 26	53.4	15.2	22 *
66.5	64.2	60.9	59.7	60.4	57.6	59.6	58.9	60.7	14 47	71.4	07 12	52.6	18.8	23
65.6	63.8	62.3	56.6	54.3	57.6	55.4	51.3	60.3	14 54	69.6	23 32	48.4	21.2	24
66.9	64.2	58.8	58.8	60.3	60.6	60.1	58.3	59.4	14 01	71.6	01 03	49.3	22.5	25
63.8	59.2	58.8	59.7	59.4	57.8	57.1	56.4	58.1	14 08	67.0	06 20	50.6	16.4	26
64.4	62.9	61.4	58.6	58.4	59.1	57.4	55.9	58.1	13 32	66.6	07 47	49.4	17.2	27
65.2	63.4	61.3	60.4	58.3	56.9	58.6	59.4	59.6	14 34	67.1	07 02	52.8	14.3	28
64.2	62.1	61.8	60.9	58.5	58.3	60.5	60.4	57.2	00 27	73.4	02 20	†31.6	41.8	29 **
60.6	59.4	58.5	58.6	60.3	61.1	60.9	60.6	59.6	13 33	64.6	06 59	53.4	11.2	30
64.6	63.1	62.2	61.3	61.4	57.1	58.1	57.8	59.8	14 23	67.4	07 57	51.5	15.9	31
63.9	61.9	59.9	59.3	59.2	58.9	58.8	58.6	59.3	-	68.4	-	49.9	18.5	Mean
61.6	60.3	59.6	59.8	60.1	59.6	59.9	60.1	58.9	-	65.0	-	51.8	13.2	Mean *
66.4	64.2	58.8	58.1	58.1	58.0	57.6	59.1	58.7	-	73.2	-	40.4	32.8	Mean **
9° + Tabular Quantities													JUNE	
									h	m	h	m		
65.4	65.2	63.7	61.6	60.6	59.8	60.4	59.5	59.5	13 50	66.4	04 07	46.2	20.2	1
63.8	63.0	62.1	61.2	60.6	60.2	60.0	59.5	58.7	16 06	64.6	08 10	50.5	14.1	2 *
64.4	64.7	63.6	63.4	62.6	57.3	59.7	59.2	59.2	14 23	65.6	08 06	50.3	15.3	3
68.0	65.9	64.8	63.6	61.1	61.6	58.9	60.4	58.3	14 33	†70.6	07 16	39.8	30.8	4 **
63.7	61.7	61.3	58.2	59.2	61.6	61.4	61.6	59.6	03 42	68.1	01 11	48.9	19.2	5
62.3	60.1	59.4	59.6	58.9	59.5	60.3	61.0	59.2	13 03	68.5	07 37	49.8	18.7	6
64.2	62.1	60.2	57.4	59.3	59.9	60.1	60.3	58.8	13 47	67.7	07 51	49.8	17.9	7
63.8	61.4	59.4	57.1	56.4	56.2	54.5	56.2	59.0	14 03	66.6	07 52	48.6	18.0	8
62.6	60.6	57.0	55.8	58.7	59.6	60.0	59.8	59.4	14 18	68.1	08 04	49.6	18.5	9
62.6	60.8	60.2	59.4	58.5	57.4	59.3	59.7	58.8	14 09	65.4	08 04	50.9	14.5	10 *
63.5	61.4	60.6	59.7	59.8	59.9	60.1	59.9	59.4	13 48	66.6	07 28	50.4	16.2	11 *
65.3	64.2	63.7	62.4	60.6	60.2	59.8	59.7	58.3	14 57	66.4	08 18	51.8	14.6	12 *
63.8	64.3	62.9	61.4	60.9	60.9	60.4	60.4	58.7	17 23	64.7	07 46	51.5	13.2	13
64.8	63.3	61.4	59.3	59.7	58.9	59.9	59.4	59.5	14 39	66.5	08 36	53.6	12.9	14
63.7	62.8	62.1	60.7	59.6	59.8	60.3	60.6	59.7	13 51	65.2	06 52	52.5	12.7	15
61.3	59.9	59.7	60.5	60.4	60.4	60.4	60.5	58.8	15 16	62.2	08 20	52.2	10.0	16 *
61.9	60.7	61.3	60.6	61.1	61.1	61.3	60.3	59.3	14 24	64.6	08 28	53.2	11.4	17
62.4	61.5	61.3	60.8	60.5	60.6	60.8	60.5	59.6	14 23	66.8	08 50	52.3	14.5	18
61.9	59.9	58.8	58.7	58.1	56.8	59.4	58.6	59.2	13 39	66.9	04 52	52.4	14.5	19
61.2	59.8	59.3	60.3	60.6	60.8	60.1	59.4	58.7	13 40	66.6	08 18	49.6	17.0	20
64.7	62.9	62.8	60.8	61.7	62.1	61.3	58.6	59.9	13 35	68.2	07 07	52.1	16.1	21
63.8	62.6	61.9	61.8	60.4	59.7	59.2	59.2	59.4	13 11	68.3	05 15	49.7	18.6	22
64.7	63.7	63.4	62.2	61.4	60.3	60.2	59.4	58.3	13 40	67.8	02 09	49.4	18.4	23
64.4	64.3	63.2	59.2	58.1	60.3	59.4	56.6	58.7	13 30	67.6	07 01	49.3	18.3	24
64.9	64.1	63.8	63.5	60.3	61.6	58.4	56.4	59.6	14 26	69.3	07 54	51.5	17.8	25
63.8	63.1	62.4	61.7	59.2	57.4	57.6	58.9	57.7	15 21	65.0	04 05	49.4	15.6	26
65.8	66.2	64.6	59.7	58.7	60.2	58.3	53.3	57.6	16 38	67.7	08 26	47.4	20.3	27 **
66.9	64.8	60.4	55.8	55.5	54.2	54.7	57.4	57.6	14 28	69.0	08 23	42.0	27.0	28 **
63.3	62.1	60.7	61.7	63.6	61.6	58.6	54.9	58.0	21 10	66.5	07 00	46.3	20.2	29 **
64.5	64.3	63.5	64.1	61.2	57.6	58.8	58.5	57.3	17 25	66.3	01 30	†37.2	29.1	30 **
63.9	62.7	61.7	60.4	59.9	59.6	59.5	59.0	58.9	-	66.8	-	49.3	17.5	Mean
63.3	61.9	61.3	60.6	60.0	59.6	59.9	59.9	59.0	-	65.0	-	51.2	13.9	Mean *
65.7	64.7	62.8	61.0	60.0	59.0	57.9	56.9	57.7	-	68.0	-	42.5	25.5	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
9° + Tabular Quantities																	
1	58.8	57.0	61.8	57.3	53.7	55.3	55.3	53.8	53.5	52.5	53.3	55.2	59.5	61.5	61.8	59.4	
2	60.4	59.2	59.2	60.0	59.2	59.5	55.7	55.5	54.0	52.7	54.7	57.2	59.5	61.2	63.2	63.5	
3	58.7	59.1	59.2	59.2	57.6	56.4	55.6	52.4	51.4	52.1	54.3	56.6	58.5	60.2	61.9	62.3	
4	59.4	56.1	55.0	56.3	58.7	57.3	54.9	51.7	53.6	52.9	55.3	57.5	62.5	64.9	65.2	64.7	
5	60.9	59.9	57.2	54.1	54.6	53.5	54.6	56.6	55.8	56.7	58.5	61.3	64.3	64.7	65.3	64.4	
6	58.9	54.6	53.7	55.4	54.3	52.3	51.6	52.0	53.3	56.4	60.8	65.9	67.7	67.2	65.4	63.0	
7 *	58.8	58.7	58.3	57.9	57.3	55.8	52.6	52.5	52.8	54.6	57.7	60.3	62.9	63.9	64.8	62.5	
8 *	59.3	59.4	58.6	56.8	54.7	52.7	51.5	51.3	51.7	53.5	56.1	60.0	63.9	66.4	66.2	65.6	
9 *	59.8	59.9	60.3	58.6	56.7	53.7	51.9	51.8	52.5	54.7	57.8	61.4	63.7	66.9	66.7	66.7	
10	57.9	58.7	61.2	56.6	56.1	54.6	53.3	52.7	52.2	52.3	54.6	59.5	64.2	67.7	69.0	68.8	
11	57.6	57.1	56.5	55.3	53.2	50.9	51.7	50.8	50.7	52.3	55.0	58.4	62.1	64.5	65.3	64.8	
12	58.3	59.5	59.3	58.8	57.6	58.3	58.1	56.0	54.3	54.6	55.7	59.4	62.4	64.1	65.3	64.5	
13	59.3	59.5	56.7	56.0	55.3	58.6	57.6	54.6	53.5	54.4	57.0	59.1	61.9	63.2	64.6	64.1	
14 **	59.7	59.3	58.3	57.5	57.8	61.4	57.4	53.9	53.2	55.5	57.8	59.4	61.4	63.7	62.3	62.7	
15 **	57.7	56.0	56.7	58.6	61.6	59.7	58.9	60.6	59.4	60.4	61.4	61.4	60.6	63.7	66.6	65.6	
16 **	34.3	50.8	53.5	55.8	50.1	52.8	55.1	55.3	53.6	54.1	56.2	59.8	62.1	65.1	64.9	64.3	
17	53.7	56.4	57.3	54.7	55.2	54.1	55.3	53.8	54.2	55.4	56.6	58.7	62.1	63.8	64.2	64.2	
18	56.3	53.8	55.4	53.8	53.3	52.2	51.7	54.0	52.5	52.8	55.7	59.3	61.9	65.6	68.3	64.6	
19 **	57.8	57.3	56.3	56.1	54.3	54.0	53.4	56.9	56.7	57.7	58.3	63.8	64.5	66.1	67.3	65.6	
20	61.3	57.2	54.0	53.7	53.2	51.8	50.9	50.3	51.5	54.6	58.5	63.4	65.8	65.3	66.6	64.4	
21	56.9	56.4	55.8	54.8	54.7	54.6	52.4	52.8	53.6	55.8	59.8	61.5	64.1	64.1	62.9	61.9	
22	57.1	55.8	55.5	56.2	56.7	55.8	56.2	53.7	53.3	55.3	58.4	62.2	67.0	67.9	66.8	65.9	
23	57.9	52.5	55.2	55.2	54.2	52.2	51.2	51.3	51.4	53.4	55.8	59.2	62.3	64.5	65.8	64.3	
24	59.5	58.2	57.5	56.6	56.7	56.0	54.3	52.6	52.3	55.3	57.9	61.7	64.4	65.4	66.4	66.3	
25 *	57.4	57.8	57.3	56.8	56.2	55.2	54.2	52.7	51.6	52.4	54.6	58.1	61.7	63.6	64.4	64.1	
26	57.6	57.5	57.2	57.3	57.7	56.0	54.8	53.9	53.8	55.8	59.1	62.6	65.3	66.1	66.2	66.6	
27 *	54.8	56.1	56.1	54.5	53.7	52.3	50.6	51.3	53.4	54.6	56.4	59.4	61.7	64.3	65.4	64.7	
28	57.7	57.4	56.8	56.7	55.7	53.1	51.4	51.8	52.3	54.2	57.4	60.4	62.9	63.8	65.7	66.9	
29	55.3	58.1	58.3	58.3	59.2	61.6	56.3	53.6	54.2	55.5	58.8	61.1	63.5	66.7	67.7	67.4	
30	52.5	49.1	49.0	56.9	60.2	56.7	54.8	52.5	53.2	54.8	55.6	59.4	60.7	62.8	62.7	63.7	
31 **	57.6	51.6	52.6	49.5	53.4	54.4	54.6	55.3	56.3	58.7	58.3	60.7	62.6	62.4	63.8	63.3	
Mean	57.2	56.8	56.8	56.3	55.9	55.3	54.1	53.5	53.4	54.7	57.0	60.1	62.8	64.6	65.3	64.5	
Mean *	58.0	58.4	58.1	56.9	55.7	53.9	52.2	51.9	52.4	54.0	56.5	59.8	62.8	65.0	65.8	64.7	
Mean **	53.4	55.0	55.5	55.5	55.4	56.5	55.9	56.4	55.8	57.3	58.4	61.0	62.2	64.2	65.0	64.3	
AUGUST																	
9° + Tabular Quantities																	
1	59.3	57.3	56.3	56.3	58.4	54.7	53.7	54.4	54.2	55.2	56.4	59.9	63.1	63.7	63.3	62.9	
2	56.7	56.7	57.1	60.6	59.8	56.3	54.9	54.4	55.7	55.1	57.1	59.2	62.7	64.7	65.4	64.4	
3	54.3	54.6	56.3	56.1	56.3	56.6	54.5	54.3	54.2	55.4	58.8	60.4	62.9	64.6	64.6	62.7	
4 *	59.5	59.5	56.2	55.7	56.5	57.4	53.9	54.2	55.1	56.9	58.5	59.7	61.8	64.2	64.9	63.5	
5 *	57.8	58.2	57.3	56.7	56.2	55.3	54.4	53.5	54.3	56.3	58.2	60.5	62.9	63.5	62.6	61.6	
6	59.4	58.5	57.6	57.0	56.0	54.7	54.8	54.1	53.6	55.4	59.4	62.1	65.0	66.3	64.7	63.2	
7	58.6	59.6	61.2	56.4	54.5	53.8	53.4	52.5	52.8	54.3	56.1	58.6	62.8	65.9	66.5	65.1	
8	58.7	58.5	58.5	57.7	56.4	54.1	52.4	51.8	53.0	53.4	58.2	63.0	64.8	67.4	67.6	67.2	
9	57.3	55.6	56.8	55.8	57.6	64.3	61.1	57.5	51.7	50.8	54.9	59.4	60.5	61.8	63.2	62.6	
10	58.3	55.2	56.6	56.5	55.2	54.5	53.1	52.1	52.9	54.7	57.6	59.4	62.6	64.6	65.4	65.2	
11	57.2	56.9	57.9	64.8	56.4	52.3	51.7	51.2	53.1	55.2	59.3	62.6	64.4	65.0	67.0	66.0	
12	55.2	53.2	53.5	54.7	55.5	59.7	56.1	57.2	58.7	56.0	56.2	60.2	63.4	64.9	65.2	64.1	
13	57.4	56.8	58.3	56.8	57.6	55.3	52.8	50.6	50.4	53.0	56.9	61.9	68.2	69.0	67.2	63.8	
14	57.8	57.9	59.4	59.9	57.6	54.7	53.5	51.8	52.3	54.4	56.5	59.3	62.9	66.7	67.3	66.9	
15	59.3	56.3	56.8	59.9	56.7	55.6	53.5	51.3	51.3	55.2	58.2	60.6	62.9	64.0	62.3	60.2	
16 **	57.8	56.9	56.4	56.0	55.1	53.3	52.3	52.1	53.3	56.4	60.2	64.1	68.1	69.9	71.0	69.8	
17 **	59.9	46.9	45.1	43.5	58.1	56.3	48.7	50.4	59.2	60.4	60.2	63.3	64.9	65.6	64.1	64.5	
18	56.0	58.1	56.0	55.6	54.0	53.6	54.6	55.9	55.6	56.8	61.0	62.9	64.8	65.7	64.4	61.9	
19	57.2	57.3	56.6	55.2	54.2	52.6	51.9	50.5	51.0	54.6	60.2	63.4	67.6	68.8	68.0	65.8	
20	57.6	57.4	56.4	54.7	53.7	50.6	56.8	52.1	52.4	53.7	57.6	61.2	64.2	64.7	64.2	62.8	
21 **	56.1	54.4	53.3	52.6	50.8	54.0	52.4	53.1	55.2	60.6	64.3	65.5	66.8	67.7	66.8	64.4	
22	54.7	59.5	54.1	54.1	53.5	53.7	51.4	51.1	51.8	56.0	60.7	65.3	68.7	68.3	65.6	63.2	
23	59.0	57.4	56.5	56.9	56.0	54.3	52.4	50.7	50.1	52.1	56.5	61.3	64.8	66.3	65.7	64.4	
24 *	58.2	58.7	58.7	56.4	55.1	54.0	52.1	50.5	49.9	53.5	59.7	64.8	65.4	65.6	65.0	63.0	
25 *	57.4	57.2	56.6	56.5	55.7	54.3	52.1	50.4	50.0	52.6	57.7	61.8	64.7	66.4	66.3	65.3	
26 *	57.6	57.5	57.3	56.6	56.1	54.7	53.3	52.0	51.6	54.4	59.8	64.6	67.2	67.0	66.3	63.7	
27	54.3	53.5	55.4	54.3	53.4	52.5	51.5	52.1	52.5	55.1	59.8	64.0	67.3	68.9	69.8	68.7	
28	57.2	56.5	56.5	60.1	57.2	54.4	52.2	51.5	52.3	54.3	57.5	61.2	65.4	65.5	65.8	64.3	
29 **	58.9	54.5	52.5	53.5	57.2	55.4	48.3	50.5	52.9	54.4	56.8	60.3	62.5	63.2	63.3	63.5	
30 **	55.6	45.4	52.4	60.5	57.5	67.3	65.2	56.5	55.9	57.3	60.6	62.3	63.5	63.0	62.5	61.2	
31	58.3	54.5	54.6	59.5	55.9	54.0	53.8	52.2	54.2	57.4	58.5	60.7	61.9	63.1	62.8	61.8	
Mean	57.5	56.1	56.1	56.5	55.9	55.3	53.6	52.7	53.3	55.2	58.5	61.7	64.5	65.7	65.4	64.1	
Mean *	58.1	58.2	57.2	56.4	55.9	55.1	53.2	52.1	52.2	54.7	58.8	62.3	64.4	65.3	65.0	63.4	
Mean **	57.7	51.6	51.9	53.2	55.7	57.3	53.4	52.5	55.3	57.8	60.4	63.1	65.2	65.9	65.5	64.7	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														JULY
										h m	h m			
58.3	58.6	59.3	57.0	56.5	59.1	58.7	58.6	57.3	13 54	63.3	08 52	51.1	12.2	1
62.6	60.8	59.5	59.3	59.5	58.7	59.5	58.5	58.9	15 05	64.2	09 10	51.1	13.1	2
60.8	60.2	60.7	60.0	58.4	56.0	58.4	58.9	57.9	15 38	62.6	08 06	50.8	11.8	3
64.2	61.8	60.7	60.2	59.5	59.3	60.3	59.8	58.8	14 53	65.6	07 26	48.8	16.8	4
61.6	59.6	59.6	58.4	57.8	58.6	59.2	58.6	59.0	14 17	65.9	05 33	52.5	13.4	5
61.5	59.8	59.5	59.7	60.1	59.8	59.6	59.5	58.8	12 56	68.6	06 42	50.4	18.2	6
60.4	59.5	59.3	59.8	59.9	60.3	60.2	58.9	58.7	14 28	64.6	06 45	52.0	12.6	7 *
64.5	62.0	60.2	58.6	58.5	59.1	60.1	59.9	58.8	14 02	66.6	07 35	50.6	16.0	8 *
64.6	62.8	60.7	59.6	59.5	59.6	60.2	59.2	59.6	14 18	68.9	07 53	51.5	17.4	9 *
67.3	64.3	61.7	60.2	58.9	58.9	59.7	59.4	59.6	14 34	69.6	09 03	51.5	18.1	10
64.1	62.4	60.3	59.4	58.9	55.4	58.6	58.5	57.7	14 17	66.0	05 56	49.7	16.3	11
63.3	62.4	60.7	60.2	59.5	59.7	59.7	59.7	59.6	14 03	66.3	08 43	52.5	13.8	12
64.5	62.4	61.3	60.6	58.9	57.4	58.8	59.6	59.1	16 23	65.7	08 32	52.8	12.9	13
62.8	65.2	62.4	62.4	62.3	63.6	61.2	59.4	60.0	21 39	69.4	08 58	52.3	17.1	14 **
66.3	60.8	60.6	57.9	54.7	53.0	47.1	36.1	58.6	16 34	71.5	23 57	28.8	42.7	15 **
61.8	59.7	60.2	57.4	55.3	55.2	53.8	54.8	56.1	01 32	67.6	00 13	27.8	39.8	16 **
63.4	59.4	59.5	59.4	60.3	59.9	58.2	59.7	58.3	16 27	65.6	08 10	52.3	13.3	17
63.8	61.9	61.5	60.7	59.7	59.1	59.7	58.8	58.2	14 50	68.9	06 38	50.5	18.4	18
63.4	61.3	58.9	52.6	57.8	59.4	57.9	61.8	59.1	14 05	68.7	19 36	49.5	19.2	19 **
62.3	61.8	58.7	57.2	57.5	59.2	53.6	56.8	57.9	14 52	67.6	22 29	45.4	22.2	20
61.8	60.8	58.3	59.4	59.8	59.8	59.8	57.9	58.3	12 41	65.3	07 11	51.5	13.8	21
63.9	62.7	61.6	60.3	59.6	59.3	60.5	60.1	59.7	13 22	68.6	07 50	52.3	16.3	22
61.9	60.2	58.8	58.4	58.7	59.1	59.0	58.5	57.5	14 12	66.4	00 57	48.0	18.4	23
65.3	62.7	59.4	58.3	58.3	57.7	57.1	56.7	59.0	14 37	67.4	08 12	50.8	16.6	24
62.9	61.9	60.8	59.7	58.7	57.8	57.8	57.9	58.2	14 56	64.6	08 34	51.1	13.5	25 *
64.8	62.5	60.5	59.8	59.5	59.1	54.5	53.2	59.2	15 18	66.7	23 21	51.5	15.2	26
62.6	60.5	59.6	58.9	58.9	59.1	58.7	58.2	57.7	14 15	55.6	06 33	49.2	16.4	27 *
65.8	63.8	62.2	61.2	60.3	59.1	58.8	56.4	58.8	15 36	67.4	06 53	50.6	16.8	28
66.1	67.5	63.7	62.6	60.9	62.8	62.3	59.3	60.9	17 21	68.6	08 11	53.2	15.4	29
62.1	61.3	59.8	58.3	59.6	59.3	59.3	58.7	57.6	15 03	64.6	01 21	46.2	18.4	30
62.2	59.1	58.9	59.7	58.5	57.2	57.0	58.5	57.8	14 40	65.1	03 05	44.1	21.0	31 **
63.3	61.6	60.3	59.3	58.9	58.8	58.4	57.8	58.6	-	66.7	-	49.0	17.6	Mean
63.0	61.3	60.1	59.3	59.1	59.2	59.4	58.8	58.6	-	66.1	-	50.9	15.2	Mean *
63.3	61.2	60.2	58.0	57.7	57.7	55.4	54.1	58.3	-	68.5	-	40.5	28.0	Mean **
9° + Tabular Quantities														AUGUST
										h m	h m			
63.1	61.6	60.2	59.2	59.1	58.9	55.9	56.9	58.5	13 02	65.6	06 00	52.5	13.1	1
62.4	61.2	59.1	58.9	58.9	58.5	54.3	56.3	58.8	03 56	67.4	22 23	52.4	15.0	2
60.3	60.2	59.5	59.3	59.4	58.7	58.7	58.9	58.4	14 04	65.4	00 26	52.7	12.7	3
61.4	59.8	58.9	58.6	58.5	58.8	58.5	58.5	58.8	14 18	65.3	06 58	52.8	12.5	4 *
60.3	59.0	58.6	58.8	59.2	59.2	59.5	59.7	58.5	13 07	63.8	07 31	53.4	10.4	5 *
61.7	59.5	59.4	60.2	59.7	58.8	57.5	57.6	59.0	13 16	66.6	07 58	53.3	13.3	6
63.6	61.0	60.3	59.8	59.5	59.2	58.6	58.4	58.9	14 18	67.3	07 37	52.0	15.3	7
65.8	62.5	59.8	57.0	55.3	55.2	57.2	56.0	58.8	13 47	68.9	07 12	50.2	18.7	8
61.3	60.3	59.5	58.9	58.9	58.7	58.3	58.9	58.6	05 35	68.3	08 56	49.6	18.7	9
63.4	62.4	61.4	59.4	57.4	59.1	58.9	58.5	58.5	14 07	66.1	07 04	51.5	14.6	10
64.6	63.6	61.9	59.4	60.2	59.3	58.7	59.3	59.5	14 39	68.6	07 25	48.6	20.0	11
61.9	60.3	60.3	59.1	59.2	58.3	56.2	56.7	58.6	14 00	65.9	00 56	49.4	16.5	12
61.3	59.1	58.5	58.8	59.3	59.4	57.9	57.3	58.7	13 17	69.8	08 05	48.9	20.9	13
64.8	62.2	60.7	61.2	56.6	57.4	59.5	59.3	59.2	15 17	69.4	08 14	51.0	18.4	14
59.1	58.5	58.1	58.8	59.7	58.9	58.9	58.5	58.1	13 05	64.4	08 12	50.2	14.2	15
66.3	61.2	59.3	57.8	51.8	56.9	59.5	61.3	59.5	14 14	75.5	20 23	43.4	32.1	16 **
61.5	54.0	54.3	53.8	57.4	57.6	49.9	55.6	56.5	00 00	71.4	03 30	35.9	35.5	17 **
59.7	57.7	56.8	58.4	59.1	59.4	58.6	58.2	58.5	13 45	66.0	05 26	52.8	13.2	18
64.4	59.4	58.9	58.3	57.5	55.1	51.5	57.3	58.2	12 51	71.0	22 23	44.1	26.9	19
61.6	59.6	58.3	55.4	57.7	56.5	57.4	55.7	57.6	13 01	65.8	07 51	45.3	20.5	20
61.8	60.7	54.4	57.1	59.5	58.6	58.0	57.4	58.6	14 06	69.4	06 44	48.0	21.4	21 **
61.3	59.6	58.1	53.4	57.3	58.3	58.3	59.2	58.2	12 35	69.4	19 17	49.9	19.5	22
61.9	58.1	54.4	56.7	57.5	57.4	57.6	58.0	57.8	13 53	66.4	08 30	49.4	17.0	23
60.8	58.4	57.6	57.8	57.6	58.0	57.6	57.4	58.2	11 46	66.4	08 06	49.1	17.3	24 *
62.2	61.1	61.3	61.5	60.2	58.9	58.6	58.2	58.6	14 06	66.6	08 03	49.2	17.4	25 *
61.4	59.8	59.4	59.2	58.6	59.1	58.5	57.3	58.9	12 44	67.9	08 35	51.3	16.6	26 *
65.9	60.5	58.9	60.4	56.1	55.7	58.3	58.3	58.6	14 13	70.2	06 44	50.5	19.7	27
59.5	58.6	58.2	58.4	58.7	59.0	58.5	58.2	58.4	14 27	66.4	06 32	49.1	17.3	28
62.4	59.5	57.5	55.0	52.5	51.6	46.3	54.2	56.1	14 36	66.9	22 47	44.4	22.5	29 **
58.5	56.5	53.4	56.3	56.3	54.3	56.3	55.7	58.1	03 26	70.4	01 46	42.5	27.9	30 **
60.3	58.4	57.2	58.9	58.5	54.6	56.8	57.1	57.7	13 28	63.7	21 40	51.1	12.6	31
62.1	59.8	58.5	58.3	58.0	57.7	57.1	57.7	58.4	-	67.6	-	49.2	18.4	Mean
61.2	59.6	59.2	59.2	58.8	58.8	58.5	58.2	58.6	-	66.0	-	51.2	14.8	Mean *
62.1	58.4	55.8	56.0	55.5	55.8	54.0	56.8	57.7	-	70.7	-	42.8	27.9	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>SEPTEMBER</b>																	
9° + Tabular Quantities																	
1 *	56.9	56.4	56.1	56.0	55.2	54.3	53.3	52.8	53.1	54.7	57.7	60.7	62.8	62.7	62.1	60.5	
2	57.8	57.3	56.7	56.1	55.2	54.7	53.1	52.2	53.1	56.1	60.6	64.1	67.6	67.8	68.1	64.1	
3 **	51.5	59.1	51.3	50.7	56.0	60.5	58.4	56.9	51.8	52.3	57.4	61.2	62.1	63.5	61.5	59.3	
4 **	55.7	55.3	55.8	53.7	56.7	57.8	55.3	55.8	60.5	60.3	63.9	66.2	67.2	67.6	69.3	62.9	
5 **	37.3	36.6	35.9	41.9	47.1	53.5	54.7	53.9	57.7	56.1	62.8	65.4	66.4	65.8	65.9	61.6	
6	51.8	55.5	53.8	53.1	53.1	54.7	58.2	56.0	53.1	54.5	57.4	60.9	63.1	63.6	62.9	60.9	
7 **	54.9	54.9	57.3	55.6	55.1	53.9	53.4	52.4	52.3	54.2	57.8	62.8	67.7	65.4	66.3	60.9	
8	51.5	51.6	56.1	56.6	55.7	53.4	53.5	53.5	54.3	55.8	58.6	62.4	66.2	68.5	65.2	62.9	
9	54.4	51.1	53.2	57.1	56.3	54.3	53.1	52.4	51.9	53.6	58.6	62.4	66.1	68.1	65.2	62.5	
10	55.1	56.2	56.1	55.5	54.0	54.7	54.0	52.5	52.1	54.0	56.9	60.3	63.6	65.1	64.9	63.5	
11	56.8	56.4	51.7	52.7	54.6	54.1	53.7	52.2	50.5	52.0	55.1	58.9	63.2	63.7	64.1	61.9	
12	56.6	59.7	57.7	55.5	54.7	54.2	54.5	55.2	55.3	55.4	57.2	61.4	64.2	65.3	64.9	61.9	
13	57.8	56.2	51.8	51.8	55.6	51.7	52.2	54.3	52.3	53.8	57.9	60.3	64.4	65.4	63.1	60.4	
14	52.8	52.5	55.0	55.1	58.5	54.7	53.3	52.5	52.0	55.0	59.1	62.3	64.4	65.3	64.1	60.9	
15 *	57.5	56.9	56.5	56.3	56.0	55.9	54.8	53.6	51.5	52.0	55.0	59.1	61.9	62.4	62.3	60.8	
16 *	57.6	57.2	56.1	55.6	55.6	55.1	53.7	51.9	50.5	51.7	55.1	58.5	61.5	63.3	63.5	62.3	
17	57.3	56.5	55.9	55.8	54.4	54.2	53.4	52.3	51.1	52.1	55.1	58.6	62.4	64.4	65.3	63.7	
18	50.3	47.2	52.8	52.6	52.6	52.2	53.3	52.4	51.5	53.5	56.4	60.4	63.5	64.2	64.1	61.3	
19 *	56.2	55.7	55.5	55.1	54.4	53.8	53.8	52.4	51.7	53.4	56.7	60.1	62.3	62.4	61.4	59.9	
20	57.1	56.9	56.7	56.1	55.6	55.2	54.3	53.1	52.2	53.7	57.6	61.3	62.9	63.7	63.2	61.3	
21	56.2	55.6	55.4	55.2	54.7	54.7	53.6	52.3	51.1	53.4	57.7	61.7	64.9	65.7	67.0	66.2	
22	50.5	53.6	55.0	55.1	55.7	54.7	55.1	53.5	52.2	52.6	55.3	59.5	63.8	64.5	65.9	65.5	
23	48.1	48.1	48.4	50.5	53.2	54.1	52.6	53.7	57.5	55.6	56.2	59.5	63.3	64.8	64.1	63.4	
24	45.7	46.3	50.3	50.1	51.4	51.2	53.4	56.8	57.2	55.7	58.7	58.6	63.1	64.2	64.6	64.2	
25 *	55.9	56.2	56.0	55.8	55.8	55.5	54.6	53.3	51.6	52.1	55.2	59.4	63.1	63.5	62.5	61.1	
26	56.5	58.3	57.4	55.8	55.6	55.1	55.0	54.1	55.0	55.2	56.1	59.7	62.1	62.6	62.9	61.9	
27	51.0	50.2	46.3	50.8	54.6	53.4	54.5	54.4	55.8	55.3	56.4	58.7	60.9	62.7	63.4	61.9	
28	57.2	57.2	57.1	56.3	55.8	55.5	55.3	54.5	54.4	55.7	59.4	59.9	61.2	62.2	63.1	61.8	
29	57.2	57.4	56.6	56.5	56.2	55.8	55.6	54.7	54.6	56.3	57.8	60.6	62.1	64.8	65.1	61.6	
30 **	54.1	49.3	51.5	52.3	49.6	51.8	52.5	53.0	52.5	55.0	57.6	61.3	63.7	66.1	65.8	63.6	
Mean	54.0	54.0	53.9	54.0	54.6	54.6	54.2	53.6	53.3	54.4	57.6	60.9	63.7	64.6	64.4	62.2	
Mean *	56.8	56.5	56.0	55.8	55.4	54.9	54.0	52.8	51.7	52.8	55.9	59.6	62.3	62.9	62.4	60.9	
Mean **	50.7	51.0	50.4	50.8	52.9	55.5	54.8	54.4	55.0	55.6	59.9	63.4	65.4	65.7	65.8	61.7	
<b>OCTOBER</b>																	
9° + Tabular Quantities																	
1 **	53.3	53.7	44.8	51.4	56.7	59.0	60.3	63.3	58.0	61.7	59.5	62.0	62.4	63.7	62.2	61.7	
2	50.9	51.9	55.8	51.6	53.6	59.4	65.9	66.8	62.2	60.4	62.0	63.6	62.7	62.4	57.5	56.5	
3	55.8	55.6	55.6	56.4	56.0	56.2	56.8	55.3	53.7	55.9	58.2	61.9	62.4	63.0	62.3	60.7	
4	54.3	55.9	56.5	56.8	56.8	56.8	56.2	55.6	55.2	55.7	57.9	60.9	64.0	64.2	65.4	63.0	
5	53.1	56.4	56.9	54.2	55.6	61.4	57.4	56.2	54.8	54.0	56.9	59.9	62.0	63.4	63.0	62.5	
6 **	52.3	54.7	59.3	54.8	58.5	51.8	57.2	57.5	55.6	56.8	59.8	65.7	66.2	70.0	68.7	71.0	
7 **	18.7	40.6	34.4	29.4	47.3	43.5	52.2	53.9	50.2	61.4	63.6	63.0	65.5	61.4	58.3	50.7	
8	49.2	61.4	55.5	52.1	51.4	54.6	53.4	51.7	50.5	52.7	55.3	59.9	63.3	62.9	61.4	61.6	
9	48.6	50.5	49.6	52.5	56.6	56.7	60.3	56.6	53.6	54.5	57.6	58.5	61.4	63.4	61.2	58.0	
10	50.7	49.6	52.2	56.7	56.1	55.3	55.2	54.6	53.6	54.4	55.8	59.5	61.8	62.7	62.2	60.5	
11	58.0	54.5	54.5	54.2	53.8	56.8	57.8	59.2	55.7	53.9	56.5	59.0	62.0	65.2	64.9	63.5	
12 *	56.1	56.7	56.6	56.8	56.3	56.4	55.7	54.5	52.9	52.8	54.9	59.2	61.8	63.6	63.4	62.2	
13 *	56.5	56.5	56.4	56.3	56.0	55.5	55.6	54.7	52.8	51.6	52.7	55.8	59.5	62.0	62.8	62.0	
14 *	56.3	56.4	56.6	56.4	56.3	55.9	55.9	55.3	53.4	52.6	54.6	58.0	61.9	63.7	63.6	62.2	
15	56.4	55.7	55.0	55.5	54.7	54.8	55.2	55.2	53.6	53.4	55.7	59.7	63.8	66.7	65.1	65.7	
16	52.9	54.9	54.2	55.6	55.0	55.1	54.9	54.6	53.7	53.5	55.4	58.8	62.7	64.8	62.7	61.5	
17	53.4	55.2	55.9	55.9	56.1	55.9	55.7	55.2	53.4	53.3	54.9	57.9	60.5	62.7	62.0	60.9	
18	54.0	53.6	56.2	50.8	52.3	54.7	55.6	58.0	55.9	56.2	58.4	60.7	62.5	63.7	64.3	61.5	
19	53.5	54.4	55.4	55.1	56.6	57.9	55.2	54.0	52.8	52.6	54.9	59.1	60.6	61.8	61.6	60.3	
20	56.5	56.7	57.3	57.8	56.4	55.5	56.5	54.3	53.8	53.8	56.7	60.2	62.6	64.7	64.9	64.7	
21	54.3	55.2	56.2	56.1	56.0	55.4	54.7	54.3	54.5	54.2	56.5	59.8	62.5	63.3	61.7	60.3	
22 *	56.1	56.6	56.9	56.9	57.0	56.8	55.6	54.0	52.6	52.6	55.5	58.4	61.5	63.3	62.5	61.0	
23 *	56.4	56.3	56.2	56.5	56.5	56.2	55.8	54.8	53.5	52.7	55.1	59.2	61.8	62.0	61.8	59.9	
24	55.4	55.4	55.7	56.0	56.4	55.9	55.4	54.6	53.5	54.0	56.3	60.4	62.8	63.4	63.9	63.7	
25 **	55.3	55.7	56.0	56.4	56.6	56.9	56.7	64.8	62.4	60.8	66.0	65.3	65.5	68.9	64.8	59.8	
26 **	44.7	52.2	50.5	55.5	56.3	61.3	58.6	60.6	59.4	59.5	59.8	62.6	62.6	61.0	62.0	57.4	
27	51.6	54.0	55.3	53.8	55.7	56.4	56.7	56.2	54.2	55.2	57.9	59.9	63.8	62.0	62.2	58.2	
28	54.2	55.5	55.2	50.8	54.6	58.2	64.5	62.0	61.4	59.8	61.5	61.5	63.4	61.2	62.8	62.9	
29	53.2	55.2	55.2	55.3	55.4	56.9	58.0	59.8	58.6	57.8	60.4	61.8	63.4	61.6	58.6	60.3	
30	54.9	59.2	60.8	56.3	55.8	56.4	58.2	58.9	56.2	56.8	58.4	60.4	64.2	63.9	60.6	57.9	
31	55.7	54.0	54.6	57.4	57.4	55.8	56.0	56.8	55.4	55.5	58.0	59.4	63.2	61.6	60.3	60.5	
Mean	52.7	54.7	54.6	54.2	55.5	56.1	56.9	56.9	55.1	55.5	57.6	60.4	62.7	63.5	62.5	61.1	
Mean *	56.3	56.5	56.5	56.6	56.4	56.2	55.7	54.7	53.0	52.5							

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date
9° + Tabular Quantities													
SEPTEMBER													
										h m	h m		
59.1	58.5	58.5	58.6	58.5	57.8	56.7	57.5	57.5	12 33	63.3	07 31	52.5	10.8
61.6	61.7	59.9	58.4	59.7	60.3	53.2	47.0	58.6	14 06	68.9	23 05	39.0	29.9
57.7	56.4	54.2	54.2	56.7	56.7	57.6	57.7	56.9	14 00	63.7	02 30	49.4	14.3
58.6	55.8	44.6	49.7	51.6	50.5	53.6	47.6	57.3	14 48	72.1	21 32	24.9	47.2
58.5	58.6	47.0	50.6	57.1	58.0	50.5	46.7	53.7	11 02	67.7	02 03	28.5	39.2
59.3	57.8	56.7	54.2	56.2	58.1	59.1	58.6	57.3	23 01	65.3	00 08	46.2	19.1
59.9	58.3	51.8	56.6	55.6	53.1	56.4	56.9	57.2	12 04	69.1	18 30	47.6	21.5
58.7	57.0	57.9	58.3	58.4	57.8	57.7	57.2	57.9	13 05	69.5	00 38	49.1	20.4
58.8	56.6	56.2	57.7	57.8	55.5	56.6	56.4	57.3	13 50	68.6	01 53	48.5	20.1
60.4	58.7	57.6	56.4	57.6	57.6	56.1	53.5	57.4	13 54	65.8	07 40	51.5	14.3
60.3	58.5	58.9	59.0	58.4	53.0	53.5	53.2	56.5	14 23	64.8	08 33	49.8	15.0
60.5	58.7	57.8	56.7	56.1	57.8	58.3	58.3	58.2	14 29	65.5	05 15	53.5	12.0
58.1	56.9	56.7	56.9	56.2	53.2	52.8	51.0	56.3	13 14	66.5	03 43	48.5	18.0
59.3	58.3	57.7	57.3	57.6	57.8	57.7	57.8	57.3	13 34	65.6	00 46	46.4	19.2
60.1	59.7	59.3	59.7	59.3	58.6	58.1	57.9	57.7	14 12	62.9	08 44	50.9	12.0
61.2	60.5	60.3	59.6	59.0	58.7	58.2	57.6	57.7	14 26	63.9	08 48	50.2	13.7
62.3	60.5	59.8	59.5	57.1	50.3	51.3	51.4	56.9	14 21	66.3	21 54	47.7	18.6
59.7	59.2	59.1	59.1	59.1	58.4	57.9	56.2	56.7	14 23	64.9	01 14	45.4	19.5
59.5	58.9	59.2	58.9	58.5	58.1	57.7	57.6	57.2	13 19	63.5	08 47	50.9	12.6
60.3	58.9	58.5	58.4	58.5	58.8	57.5	58.9	57.9	13 47	64.3	08 12	51.6	12.7
65.1	62.4	60.4	55.7	57.3	56.5	55.2	51.7	57.9	14 05	67.6	23 51	48.4	19.2
64.2	63.9	62.2	60.5	56.9	56.6	54.3	51.0	57.6	14 12	67.9	08 32	51.5	16.4
62.2	60.8	60.5	59.5	58.7	58.3	57.2	49.1	56.6	13 52	65.6	23 52	44.7	20.9
64.0	60.9	60.5	58.8	55.1	55.5	55.6	56.2	56.6	14 43	65.6	02 04	45.2	20.4
60.1	59.9	59.5	57.7	54.7	55.6	55.8	56.3	57.1	13 04	63.9	08 30	51.3	12.6
60.5	59.8	59.2	58.4	56.7	53.7	50.5	50.3	57.2	14 01	63.6	23 07	47.2	16.4
59.8	58.7	57.8	56.4	56.4	55.8	56.8	56.9	56.2	14 54	63.6	02 07	44.8	18.8
59.9	58.4	58.3	58.2	57.6	57.1	56.8	56.0	57.9	14 51	63.3	08 37	53.9	9.4
61.3	60.1	58.4	56.9	55.8	51.5	45.4	49.0	57.1	14 00	66.6	22 23	43.7	22.9
61.4	59.8	57.6	54.5	47.3	49.2	55.1	57.9	55.9	14 42	66.6	20 29	42.9	23.7
60.4	59.1	57.5	57.2	56.9	56.0	55.4	54.4	57.1	-	65.9	-	46.9	19.0
60.0	59.5	59.4	58.9	58.0	57.8	57.3	57.4	57.5	-	63.5	-	51.2	12.3
59.2	57.8	51.0	53.1	53.7	53.5	54.6	53.4	56.2	-	67.8	-	38.7	29.2
9° + Tabular Quantities													
OCTOBER													
										h m	h m		
56.8	56.9	53.2	52.6	53.1	44.4	54.3	53.2	56.6	14 04	66.8	21 15	32.6	34.2
53.6	49.2	49.2	56.7	57.3	57.3	56.4	52.6	57.3	07 37	67.4	18 09	43.3	24.1
57.9	56.5	57.4	56.9	56.3	55.3	55.6	55.4	57.4	13 11	63.5	08 40	52.5	11.0
63.2	61.2	47.9	55.9	49.3	55.6	51.6	55.4	57.3	16 57	69.0	18 23	26.7	42.3
59.5	54.2	57.0	58.3	57.5	56.3	47.5	46.0	56.8	13 38	64.8	23 06	38.7	26.1
74.4	67.1	34.9	58.3	36.9	44.2	52.4	20.6	56.2	15 33	75.9	18 06	0.3	85.6
56.3	47.5	51.7	54.4	57.8	50.8	46.1	54.9	50.6	01 14	75.3	01 33	3.0	78.3
59.5	56.1	55.5	48.4	49.7	47.8	51.3	51.7	54.9	12 47	64.7	19 28	44.5	20.2
58.6	57.2	57.4	51.7	52.6	52.1	54.9	48.8	55.5	13 19	64.1	23 13	43.8	20.3
58.6	56.9	55.6	55.6	54.6	51.3	49.5	53.2	55.7	13 30	63.0	01 41	47.9	15.1
61.6	59.4	58.2	57.8	55.5	53.4	55.8	56.4	57.8	14 17	67.3	21 15	49.5	17.8
60.5	59.9	59.5	58.7	58.6	56.3	52.4	56.8	57.6	13 22	63.7	22 00	50.5	13.2
60.6	59.8	59.0	58.7	58.2	57.8	57.4	57.2	57.3	15 02	62.9	09 50	50.7	12.2
60.4	59.4	58.9	58.6	58.0	57.9	57.6	57.0	57.8	14 04	64.0	09 32	52.2	11.8
66.8	63.9	62.7	56.5	55.0	54.2	50.7	51.5	57.8	15 50	68.7	22 45	47.6	21.1
59.7	58.9	58.3	57.7	57.7	57.6	56.2	54.7	57.1	13 23	66.7	00 00	51.3	15.4
59.1	58.0	57.6	56.1	56.7	56.6	56.4	54.6	56.8	13 25	63.7	08 37	52.6	11.1
58.9	59.3	58.6	54.7	52.2	50.2	52.0	53.0	56.6	13 52	65.8	20 56	44.5	21.3
58.7	58.2	58.2	56.1	54.3	48.7	51.1	54.9	56.1	12 47	62.4	21 26	46.1	16.3
61.4	59.5	57.6	56.5	56.6	55.3	49.6	53.2	57.6	13 50	65.5	22 09	48.5	17.0
58.6	58.1	57.6	57.4	55.7	50.4	54.1	55.8	56.8	13 19	64.1	21 19	47.3	16.8
59.6	59.2	58.5	57.7	57.1	56.7	56.6	56.5	57.5	13 37	63.7	09 26	52.0	11.7
59.0	59.3	59.4	58.9	57.1	56.4	56.5	56.0	57.4	13 20	62.5	09 11	52.4	10.1
66.0	65.6	60.4	59.8	57.1	55.7	55.5	54.6	58.2	16 59	73.9	20 11	52.3	21.6
42.4	52.3	53.6	55.3	39.7	48.4	50.9	48.0	56.8	13 10	71.2	20 32	25.0	46.2
58.8	57.8	56.0	53.4	55.0	53.9	54.8	53.6	57.0	14 24	67.9	00 29	42.5	25.4
56.5	53.8	50.8	55.4	50.1	52.1	54.2	49.8	55.7	14 03	65.7	20 53	39.7	26.0
59.2	49.6	51.6	57.3	54.3	54.4	54.7	56.8	57.8	06 00	67.8	18 05	40.5	27.3
56.0	53.6	51.3	53.6	52.9	55.7	55.9	53.7	56.8	13 11	65.7	18 33	45.5	20.2
54.6	53.7	56.0	53.1	50.3	53.2	54.3	57.8	57.2	23 54	66.0	20 17	46.5	19.5
57.6	51.3	45.7	54.2	52.3	55.5	55.1	57.0	56.3	12 54	65.4	18 01	40.7	24.7
59.2	57.2	55.1	56.0	53.9	53.4	53.6	52.9	56.7	-	66.7	-	42.1	24.6
60.0	59.5	59.1	58.5	57.8	57.0	56.1	56.7	57.5	-	63.4	-	51.6	11.8
57.7	56.3	49.9	54.8	48.5	48.3	51.7	46.1	55.4	-	73.4	-	19.5	53.9

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
9° + Tabular Quantities																	
1	55.1	54.8	56.4	56.8	57.3	57.8	56.5	55.6	54.4	54.2	57.2	60.7	63.0	63.0	62.5	61.0	
2	56.3	56.8	57.8	56.8	54.7	55.5	54.7	55.3	55.3	55.3	57.2	60.5	63.8	62.8	61.8	61.0	
3	54.8	56.9	54.1	54.9	55.1	55.9	54.8	53.3	52.6	53.7	56.1	59.4	61.3	61.3	62.4	60.7	
4 **	53.2	49.4	53.5	51.9	53.3	54.8	58.4	54.7	53.8	55.3	61.2	61.7	62.0	64.0	65.0	51.7	
5	55.5	55.9	56.4	59.9	58.9	56.5	56.1	55.9	56.0	54.9	56.0	59.3	60.8	60.7	60.3	57.2	
6	56.0	56.2	56.2	56.4	56.4	54.9	55.4	55.4	53.4	52.6	55.2	58.9	60.8	59.9	59.2	58.4	
7 *	55.1	55.7	57.6	55.6	56.2	56.5	57.6	55.8	53.7	52.7	54.6	56.3	58.9	60.3	59.7	58.5	
8 *	56.4	56.6	57.0	57.3	56.9	56.7	56.3	54.6	53.4	52.7	54.6	57.4	59.7	61.3	60.5	59.6	
9 *	53.3	54.6	55.5	56.6	57.8	56.3	55.5	56.0	54.8	53.8	56.5	57.9	60.1	61.0	60.4	59.5	
10	55.9	56.3	56.6	56.8	56.7	56.4	55.9	55.3	53.9	53.6	55.4	59.6	62.6	64.0	64.2	63.9	
11	56.0	56.5	57.4	57.3	57.4	57.5	56.4	57.2	54.7	54.9	58.4	61.0	59.4	60.2	59.8	59.2	
12	52.1	54.7	56.2	56.4	56.6	56.6	56.7	56.4	55.5	55.2	55.9	56.7	58.4	62.4	65.4	63.0	
13 **	57.8	40.6	41.6	57.1	53.7	57.1	87.4	83.4	49.0	35.5	16.0	42.0	44.2	58.1	53.4	62.2	
14 **	49.4	53.5	56.4	55.2	55.2	55.2	54.7	54.6	53.0	51.9	52.7	54.6	55.2	57.4	56.7	55.5	
15 **	55.6	53.2	53.2	55.0	55.5	55.8	56.8	55.8	54.3	53.6	53.9	57.2	58.4	61.2	63.0	61.4	
16 **	42.4	48.7	58.8	53.4	57.3	50.3	50.7	49.6	51.6	55.1	54.6	55.0	57.7	57.8	56.4	53.7	
17 *	57.4	59.6	58.8	56.4	56.3	56.0	54.9	55.3	54.7	55.7	56.8	58.2	57.9	57.3	57.5	56.7	
18 *	54.4	55.9	55.2	54.2	54.9	54.3	54.4	54.0	53.6	53.8	55.2	56.8	58.5	58.6	58.6	57.9	
19 *	55.7	56.2	56.2	56.2	56.5	56.3	55.7	55.3	55.2	54.8	56.2	57.8	59.0	59.5	58.9	58.6	
20	56.6	57.9	57.9	58.0	57.5	56.8	56.8	56.5	55.6	56.5	58.2	58.6	60.2	59.9	59.5	58.4	
21	55.2	55.8	56.7	56.8	57.4	60.2	61.0	60.2	55.2	56.9	57.9	59.5	62.5	61.8	63.3	62.8	
22	50.4	57.0	63.8	53.6	54.4	56.7	57.7	57.3	54.6	54.0	55.6	57.9	60.3	60.4	60.4	63.0	
23	55.4	56.6	57.6	56.2	55.8	56.1	58.8	58.6	57.4	56.1	56.6	58.9	59.3	59.2	59.0	58.3	
24	51.9	53.2	57.1	56.3	55.7	56.3	56.1	55.8	55.6	55.7	56.8	57.8	59.2	60.4	59.8	59.2	
25	51.5	53.7	55.9	60.8	60.3	58.3	55.4	56.4	57.0	55.9	57.0	61.8	59.5	60.5	58.6	58.7	
26	53.4	54.3	55.8	55.7	58.7	56.5	56.5	56.4	58.4	58.3	58.6	59.0	60.7	60.5	60.0	58.6	
27	53.5	54.1	54.6	54.8	55.7	56.5	56.2	56.0	55.1	55.2	57.3	57.8	58.7	59.4	60.4	60.0	
28	54.4	53.4	54.2	54.1	57.2	57.5	57.6	59.2	58.0	57.4	57.9	59.9	60.8	57.9	58.0	58.3	
29	51.6	55.2	56.0	55.4	55.0	54.5	54.5	55.4	55.5	55.5	56.6	58.8	59.6	60.0	60.4	59.2	
30	54.7	55.1	54.2	55.3	55.5	54.8	55.0	55.4	55.4	55.8	56.2	58.5	59.6	59.8	60.2	59.0	
Mean	54.0	54.6	56.0	56.0	56.3	56.2	57.2	56.7	54.7	54.2	55.1	58.0	59.4	60.4	60.2	59.1	
Mean *	55.0	55.8	56.3	56.0	56.5	56.0	55.9	55.1	54.1	53.6	55.4	57.2	59.2	60.1	59.6	58.8	
Mean **	51.7	49.1	52.7	54.5	55.0	54.6	61.6	59.6	52.3	50.3	47.7	54.1	55.5	59.7	58.9	56.9	
DECEMBER																	
9° + Tabular Quantities																	
1 **	56.1	52.7	54.6	49.5	53.7	60.6	53.7	55.2	54.6	54.7	56.4	58.5	62.6	59.7	61.3	60.1	
2 **	53.2	54.7	55.4	56.5	55.3	55.4	54.7	55.2	55.0	55.2	55.0	58.9	60.7	58.8	61.1	60.8	
3	54.8	55.6	56.6	57.6	59.7	56.3	55.7	55.5	55.4	54.7	55.8	58.0	59.6	59.1	59.3	58.3	
4 *	55.2	56.2	56.3	56.4	56.4	56.0	55.3	54.9	55.1	54.6	56.2	57.3	59.2	58.8	59.5	57.8	
5	54.7	55.7	56.3	56.4	57.5	56.6	56.5	56.4	56.6	57.4	58.5	59.7	61.2	60.5	61.3	59.8	
6	55.5	55.7	55.9	56.3	56.9	57.8	56.3	56.8	56.9	57.7	58.9	59.4	64.0	61.0	62.6	64.6	
7	54.1	54.8	55.7	54.8	56.8	55.5	54.6	55.7	55.2	55.0	56.9	58.2	58.8	59.3	60.9	61.6	
8	51.5	52.7	53.9	55.1	58.4	58.8	58.8	58.3	57.4	56.9	55.5	56.0	57.2	58.4	60.3	58.7	
9	55.9	56.0	56.4	58.3	56.3	55.3	56.7	56.3	56.6	55.8	58.0	58.0	59.6	57.9	58.2	56.1	
10	54.3	54.1	54.7	56.8	55.7	56.3	55.8	55.8	55.7	55.8	56.6	57.3	56.9	58.3	58.9	58.4	
11 *	56.0	56.1	56.1	56.2	56.6	56.3	56.9	57.5	55.9	55.1	56.4	57.6	58.4	59.8	60.0	59.2	
12	53.0	53.7	53.4	53.8	55.7	56.3	56.3	56.8	56.8	56.9	57.5	59.8	59.8	60.4	60.5	59.7	
13	51.6	55.6	56.5	54.2	52.3	55.2	56.6	56.8	56.5	57.9	58.2	58.6	59.8	59.5	59.2	57.7	
14 *	56.0	56.1	56.4	56.6	56.7	56.6	56.7	56.3	56.2	56.2	56.5	57.8	59.5	59.9	58.7	57.3	
15 **	55.5	53.3	54.8	56.0	56.7	58.5	59.4	58.5	57.8	57.9	59.5	62.3	63.4	63.2	59.1	63.4	
16 **	37.6	36.5	43.2	44.5	44.2	54.6	58.8	61.3	58.5	58.0	60.5	57.3	59.5	58.3	58.3	58.3	
17 *	54.6	55.1	55.3	55.2	54.7	55.5	55.5	55.5	56.3	56.2	56.2	56.4	57.5	58.4	58.5	57.7	
18	55.6	55.2	56.3	54.8	54.9	57.3	60.7	61.8	57.7	57.8	61.9	61.9	60.9	59.5	60.0	58.0	
19	52.9	54.0	55.5	54.1	56.8	56.7	57.5	57.8	56.6	56.9	55.9	56.9	57.7	59.4	58.5	57.8	
20	54.0	54.9	54.0	57.5	57.7	56.2	56.4	56.3	56.6	57.7	58.4	58.6	59.4	58.3	57.2	56.2	
21	55.1	55.4	55.4	55.2	56.1	56.8	56.7	56.6	57.3	57.2	56.7	57.2	58.3	57.8	58.4	57.2	
22	56.7	55.4	54.1	54.3	56.3	57.0	59.6	57.4	57.2	58.4	57.9	58.5	58.4	57.2	56.4	55.9	
23	55.2	53.6	54.0	54.0	54.8	56.7	57.6	58.1	58.6	59.2	59.7	58.4	58.9	57.3	56.5	57.4	
24	54.2	53.9	55.2	55.1	55.5	56.5	56.6	56.6	57.5	58.3	58.9	59.8	59.4	57.9	56.3	55.8	
25 *	53.4	54.9	55.4	53.9	55.3	55.6	55.9	55.9	56.7	57.8	57.3	57.6	57.6	56.7	55.3	55.8	
26	56.4	51.6	53.5	54.8	54.4	58.2	54.4	57.5	58.7	59.6	59.5	59.9	59.3	58.5	57.2	56.3	
27 **	54.8	54.2	54.2	53.9	52.2	54.6	57.4	61.6	60.2	59.3	59.4	60.3	62.6	63.2	63.7	55.0	
28	47.6	53.6	54.8	56.2	55.4	55.6	56.3	56.4	58.6	59.3	59.4	58.2	58.6	59.8	59.3	55.1	
29	53.3	52.8	51.6	53.9	55.1	55.2	56.9	57.9	57.3	57.8	58.8	59.3	59.8	58.3	58.6	57.5	
30	53.7	54.6	55.4	54.9	55.5	55.1	54.8	55.1	55.2	56.3	57.6	58.8	59.2	59.6	58.4	57.6	
31	55.2	54.8	55.8	56.1	55.8	58.2	55.7	56.7	57.5	57.4	57.8	58.8	60.5	60.0	59.6	56.3	
Mean	53.8	54.0	54.7	54.9	55.5	56.5	56.6	57.0	56.8	57.1	57.8	58.6	59.6	59.2	59.1	58.1	
Mean *	55.0	55.7	55.9	55.7	55.9	56.0	56.1	56.0	56.0								

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														
NOVEMBER														
										h m		h m		
59.6	58.6	57.3	56.9	55.8	56.8	53.7	54.0	57.5	12 13	63.7	22 42	51.6	12.1	1
58.9	57.8	56.9	55.9	53.3	49.5	52.3	53.3	56.8	12 51	65.6	21 17	46.2	19.4	2
58.8	58.2	57.5	56.7	49.5	49.4	49.5	46.2	55.5	12 25	63.1	23 14	40.5	22.6	3
60.8	59.6	52.4	52.4	52.7	52.3	50.5	52.3	55.7	14 26	67.0	01 49	45.6	21.4	4 **
56.4	56.3	56.0	55.7	55.4	55.6	55.5	55.5	56.9	12 57	62.2	00 28	54.1	8.1	5
57.6	56.6	56.0	56.7	53.9	53.6	55.3	55.4	56.3	12 48	61.3	20 36	51.2	10.1	6
57.8	57.6	57.0	56.6	56.2	55.8	55.7	55.9	56.6	13 49	60.6	09 30	52.5	8.1	7 *
58.8	58.4	57.6	57.6	56.9	55.7	54.5	53.3	56.8	13 56	61.8	09 05	52.4	9.4	8 *
58.9	58.2	57.7	57.4	56.8	55.2	54.9	55.2	56.8	13 26	62.1	00 46	52.8	9.3	9 *
61.6	60.4	60.2	58.9	57.9	56.8	56.3	55.6	58.1	15 14	66.6	08 54	52.6	14.0	10
58.4	57.8	57.4	57.6	57.6	56.9	56.0	51.8	57.4	11 50	62.4	23 41	49.6	12.8	11
63.4	67.3	56.4	59.5	64.0	53.9	50.7	47.4	57.5	21 12	82.3	21 46	26.6	55.7	12
53.6	58.7	40.7	42.6	53.4	47.3	54.8	53.2	51.8	06 54	140.8	10 47	29.1	169.9	13 **
57.5	52.7	47.3	56.4	53.4	56.0	54.2	56.2	54.4	19 39	61.8	18 20	42.6	19.2	14 **
59.8	54.3	58.9	56.8	53.3	53.0	56.9	57.9	56.5	14 44	71.1	22 58	45.9	25.2	15 **
55.4	55.7	54.7	51.6	51.7	53.7	54.6	55.3	53.6	02 46	78.0	00 52	31.5	46.5	16 **
51.6	49.8	50.8	55.2	55.2	53.5	52.7	54.6	55.5	01 43	61.5	17 12	46.9	14.6	17
57.4	56.6	56.2	55.6	55.3	55.3	55.3	55.6	55.7	12 20	58.8	00 07	52.8	6.0	18 *
57.9	57.2	56.6	55.8	55.7	55.8	55.9	56.2	56.6	12 17	60.1	09 26	54.2	5.9	19 *
58.2	57.5	56.2	55.9	55.6	55.4	55.6	55.4	57.3	13 14	60.7	21 47	54.7	6.0	20
59.4	55.7	55.8	51.0	52.9	54.1	51.6	47.8	57.1	07 01	68.7	18 30	44.8	23.9	21
60.9	59.5	56.6	55.4	55.2	53.1	54.1	53.7	56.9	02 20	70.1	00 09	49.0	21.1	22
57.3	56.6	55.5	55.1	53.8	54.4	53.3	52.4	56.6	06 49	61.3	23 44	51.7	9.6	23
58.4	57.4	56.9	56.3	55.9	55.6	48.6	42.5	55.8	13 17	60.7	23 11	36.1	24.6	24
54.9	50.7	55.6	53.8	52.8	50.6	49.3	48.4	55.7	11 24	64.6	16 56	44.7	19.9	25
56.8	56.4	55.8	55.8	53.8	54.0	53.8	54.7	56.8	12 47	61.7	00 00	50.9	10.8	26
57.0	51.3	45.8	55.1	52.4	47.9	50.0	53.3	54.9	14 32	61.3	18 13	39.6	21.7	27
57.4	57.3	56.9	56.8	55.6	55.4	55.2	54.4	56.9	05 02	65.2	00 15	46.4	18.8	28
58.5	57.6	56.9	56.7	54.5	54.1	52.7	54.6	56.2	14 25	60.8	00 36	50.3	10.5	29
57.9	58.0	56.4	56.1	53.6	50.8	47.2	56.3	55.9	14 29	60.6	22 08	41.5	19.1	30
58.0	57.0	55.2	55.5	54.8	53.7	53.4	53.3	56.2	-	66.9	-	44.3	22.5	Mean
58.2	57.6	57.0	56.6	56.2	55.6	55.3	55.3	56.5	-	60.7	-	52.9	7.7	Mean *
57.4	56.2	50.8	52.0	52.9	52.5	54.2	55.0	54.4	-	83.7	-	27.3	56.4	Mean **
9° + Tabular Quantities														
DECEMBER														
										h m		h m		
59.4	61.6	56.6	47.5	45.2	50.7	32.4	44.1	54.2	12 20	65.9	22 37	26.6	39.3	1 **
58.8	57.2	53.7	53.8	49.8	49.4	52.6	52.6	55.6	12 13	62.5	21 04	45.5	17.0	2 **
56.8	55.3	56.2	55.8	55.3	54.8	54.9	54.4	56.5	04 09	63.1	00 55	53.9	9.2	3
56.9	58.2	56.6	55.7	54.6	54.7	54.8	54.9	56.3	13 47	60.4	06 53	54.3	6.1	4 *
59.9	57.7	57.5	56.9	56.2	55.7	55.2	55.2	57.5	14 18	62.0	00 44	54.4	7.6	5
67.0	65.4	63.9	55.6	53.8	55.3	52.1	53.8	58.5	17 10	68.8	20 39	46.3	22.5	6
60.4	59.0	59.5	58.5	49.2	47.7	50.2	46.3	55.8	15 40	62.4	20 58	33.3	29.1	7
57.6	56.9	56.8	56.4	55.6	55.6	55.6	55.7	56.6	14 32	61.9	00 00	49.2	12.7	8
57.5	56.6	54.3	50.3	53.9	54.2	52.8	52.0	56.0	12 22	61.6	18 55	48.4	13.2	9
56.7	56.4	56.6	55.8	51.3	53.1	55.9	56.1	56.0	14 23	59.3	20 44	46.2	13.1	10
58.3	57.5	57.3	56.8	54.5	50.3	52.4	52.4	56.4	13 55	60.6	21 24	48.5	12.1	11 *
61.6	61.3	55.9	52.3	55.1	50.4	47.6	45.8	55.9	16 40	63.7	22 19	44.3	19.4	12
56.6	56.3	56.2	55.9	55.4	55.6	55.7	55.7	56.4	12 32	62.1	00 00	46.5	15.6	13
56.7	56.6	56.5	55.8	55.3	55.6	55.8	55.5	56.7	12 53	61.3	09 15	54.6	6.7	14 *
62.5	64.7	57.4	52.4	52.8	40.3	43.1	38.5	56.3	15 37	71.0	22 08	32.1	38.9	15 **
58.6	58.6	57.5	55.6	55.8	55.6	53.1	53.5	54.1	07 02	63.5	01 12	34.4	29.1	16 **
57.1	56.7	56.6	56.1	54.4	55.2	54.7	54.5	56.0	14 00	58.9	20 39	52.9	6.0	17 *
57.2	57.1	51.7	48.5	51.0	53.9	53.7	54.6	56.8	10 54	64.8	19 50	44.5	20.3	18
55.9	55.6	56.6	56.5	55.2	46.8	52.2	54.4	55.8	13 13	61.7	21 14	43.4	18.3	19
55.8	55.8	54.9	45.1	44.1	51.7	50.3	54.8	55.1	12 27	60.6	19 54	36.2	24.4	20
57.0	60.7	58.6	55.8	47.6	44.7	51.8	55.3	55.8	17 34	62.2	21 17	40.4	21.8	21
54.6	55.5	56.1	55.3	53.7	51.1	53.7	57.3	56.2	06 37	61.8	21 18	49.0	12.8	22
56.9	56.8	55.5	55.4	55.0	55.3	54.8	55.0	56.4	10 00	61.2	01 03	52.7	8.5	23
57.4	53.9	56.5	57.2	56.6	55.1	51.8	53.7	56.2	11 19	60.4	22 34	48.9	11.5	24
56.6	56.6	56.6	56.3	56.0	55.6	54.2	54.1	55.9	10 49	58.4	00 58	52.3	6.1	25 *
56.3	56.7	56.6	56.4	56.4	56.7	56.4	55.6	56.7	12 14	61.4	01 30	49.5	11.9	26
57.0	54.6	57.1	49.7	49.8	51.1	48.6	48.3	56.0	15 13	69.2	19 19	34.6	34.6	27 **
58.9	57.7	53.4	48.5	52.8	53.7	54.5	54.9	55.8	13 30	61.0	00 31	46.0	15.0	28
55.8	59.3	57.3	55.8	54.9	55.1	55.4	53.6	56.3	12 11	60.4	16 07	49.5	10.9	29
56.9	54.2	50.9	57.5	55.2	54.8	56.1	54.9	55.9	13 49	60.7	17 58	47.5	13.2	30
58.3	55.9	53.1	53.3	54.4	53.6	53.8	54.5	56.4	12 41	62.0	18 10	49.9	12.1	31
58.0	57.6	56.3	54.3	53.3	52.7	52.5	53.0	56.1	-	62.4	-	49.7	16.7	Mean
57.1	57.1	56.7	56.1	55.0	54.3	54.4	54.3	56.3	-	59.9	-	52.5	7.4	Mean *
59.3	59.3	56.5	51.8	50.7	49.4	46.0	47.4	55.2	-	66.4	-	34.6	31.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	707	709	708	707	710	713	720	715	713	706	696	695	692	692	689	688	
2 *	705	706	705	706	709	713	722	723	722	712	694	684	678	685	688	693	
3	703	706	703	700	706	716	722	723	723	710	696	694	695	690	690	694	
4	705	704	706	706	711	710	707	712	718	715	703	703	709	708	707	703	
5	710	709	713	700	695	727	719	713	702	679	679	673	666	652	658	665	
6	679	685	681	688	682	686	689	689	690	688	689	692	691	689	685	682	
7	700	700	699	698	703	707	712	710	703	700	699	685	690	696	703	706	
8	706	704	703	703	703	705	706	709	709	709	704	700	700	700	699	700	
9 *	708	705	705	705	708	711	711	711	715	715	712	712	713	715	711	709	
10 **	703	708	711	712	719	722	732	725	722	705	683	676	672	667	648	649	
11 **	667	665	673	676	686	687	689	689	667	655	671	671	669	667	658	668	
12	705	699	688	691	694	696	699	693	693	694	692	685	681	677	678	675	
13	688	692	700	699	702	705	707	707	706	704	698	695	693	688	685	681	
14 **	691	695	673	679	682	696	707	712	710	705	695	683	674	678	682	688	
15 **	618	645	629	657	652	662	676	685	682	673	668	663	663	672	669	653	
16	690	690	690	691	693	697	695	693	691	690	685	680	683	683	685	685	
17	685	694	702	701	705	708	714	710	707	705	697	691	700	717	717	719	
18	711	707	713	715	718	724	726	744	710	694	690	679	667	681	688	686	
19	704	705	703	700	700	706	698	698	696	686	678	678	686	687	690	694	
20	707	708	711	715	723	719	714	705	714	708	700	680	702	709	710	700	
21 **	709	712	673	684	699	700	709	708	700	692	683	663	655	665	669	677	
22	670	678	688	691	692	696	703	691	673	675	665	644	662	664	679	684	
23	695	697	698	700	704	714	708	699	694	688	673	668	674	666	678	684	
24	693	699	706	706	712	705	699	699	688	684	666	667	678	677	685	688	
25	705	710	716	706	707	709	708	711	704	700	697	694	693	691	687	695	
26	710	706	706	708	713	714	717	715	713	700	694	693	689	689	691	688	
27	708	711	708	714	709	711	720	718	715	706	693	689	688	688	688	688	
28	704	710	715	712	713	714	715	715	714	706	702	697	689	689	692	694	
29	721	721	729	720	714	710	714	724	731	718	705	689	683	696	695	693	
30 *	714	713	713	714	717	720	723	724	723	716	708	699	698	700	705	705	
31 *	714	713	714	718	720	726	728	729	722	709	697	692	697	704	709	710	
Mean	698	700	699	701	703	707	710	710	705	698	691	684	685	687	688	689	
Mean *	710	709	709	710	713	717	721	720	719	712	701	696	696	699	700	701	
Mean **	678	685	672	682	688	693	703	704	696	686	680	671	667	670	665	667	
FEBRUARY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	722	721	720	721	726	736	734	728	719	706	696	692	695	690	689	689	
2	716	712	710	710	709	712	714	715	712	704	698	690	699	709	712	714	
3	692	692	692	693	703	696	693	693	689	683	676	674	664	676	689	688	
4	692	701	701	692	699	712	700	702	692	686	682	674	675	682	688	689	
5	703	706	702	703	702	702	709	719	713	710	709	674	675	695	699	679	
6	681	679	679	700	702	699	694	701	709	699	692	689	684	692	700	702	
7 *	705	703	702	708	709	708	715	718	711	698	694	691	691	693	698	699	
8	711	711	712	714	716	718	716	721	727	719	705	697	685	693	696	697	
9 *	707	711	709	710	712	715	717	719	718	713	706	705	708	711	709	712	
10 *	723	723	725	729	733	727	732	733	725	716	709	709	706	708	708	704	
11	717	719	719	720	722	725	730	733	733	724	713	703	698	698	705	707	
12	702	712	705	705	713	714	715	720	715	703	701	699	699	693	695	697	
13	719	718	721	723	725	729	737	736	737	731	721	717	717	711	708	707	
14 **	677	688	693	707	702	696	707	706	714	707	703	688	693	689	676	672	
15	693	695	693	695	699	702	701	702	701	698	691	688	689	689	675	672	
16 **	706	719	715	701	698	703	702	701	705	717	731	718	713	721	700	665	
17 **	701	703	693	702	707	710	714	699	701	714	716	708	702	705	695	691	
18 **	709	700	708	719	709	709	702	691	688	683	674	675	672	678	687	686	
19	703	702	701	700	699	704	708	706	712	701	695	693	687	693	693	687	
20	692	702	693	686	684	695	695	703	704	698	701	695	691	688	693	686	
21 **	705	707	713	715	723	710	706	719	717	711	675	673	686	687	679	687	
22	709	709	709	709	713	713	712	717	717	717	712	704	700	703	705	707	
23	713	712	716	716	715	713	720	722	720	713	706	699	695	692	692	696	
24 *	714	714	713	716	715	722	724	723	718	717	712	708	711	712	711	707	
25 *	711	709	713	713	715	718	721	721	714	709	704	700	702	705	706	711	
26	721	720	719	719	721	723	725	724	717	713	707	706	707	708	707	713	
27	715	713	708	706	702	710	736	733	715	705	697	692	693	692	694	709	
28	718	714	715	721	725	721	721	723	708	697	688	685	689	697	708	708	
29	721	716	703	715	720	721	736	725	705	694	683	684	694	698	709	698	
Mean	707	708	707	709	711	713	715	716	712	706	700	694	694	697	697	696	
Mean *	712	712	712	715	717	718	722	723	717	711	705	703	704	706	706	707	
Mean **	700	703	704	709	708	706	706	703	705	706	700	692	693	696	687	680	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 γ + Tabular Quantities (in γ)														
									h m		h m		γ	
695	700	702	704	705	706	706	705	703	06 43	721	15 13	687	34	1 *
689	696	695	695	703	705	702	703	701	06 49	724	12 13	676	48	2 **
693	694	702	708	712	713	708	708	705	07 43	724	13 43	686	38	3
703	706	710	709	710	706	707	710	708	08 41	727	15 41	694	33	4
677	684	689	700	703	703	699	685	692	05 26	734	13 50	644	90	5
689	694	698	703	702	704	701	700	691	21 03	707	00 18	668	39	6
706	710	706	703	704	707	709	709	703	06 45	715	11 46	681	34	7
707	711	714	716	712	713	703	706	706	19 44	719	11 52	698	21	8
710	712	714	712	713	709	703	703	710	09 08	718	22 45	701	17	9 *
652	652	668	663	710	671	647	658	686	07 18	753	21 54	623	130	10 **
659	688	688	688	687	688	689	698	677	23 50	715	14 12	642	73	11 **
676	681	689	691	678	703	684	685	689	00 22	725	15 10	662	63	12
682	688	693	703	683	689	701	701	695	23 21	711	20 21	674	37	13
694	704	716	674	654	643	628	611	682	18 38	735	23 56	695	140	14 **
657	665	674	675	683	691	695	691	667	22 04	702	00 00	596	106	15 **
684	683	696	701	701	702	693	679	690	21 22	706	23 07	675	31	16
705	712	713	717	719	718	718	714	708	13 03	734	00 00	678	56	17
687	691	689	693	699	688	688	690	699	07 45	†756	12 33	657	99	18
696	703	704	706	708	709	717	709	698	22 13	723	11 42	676	47	19
682	692	699	709	704	699	696	704	705	04 43	732	11 23	667	65	20
653	649	656	665	679	674	665	692	680	01 25	745	16 54	628	117	21 **
679	684	693	696	701	700	697	694	683	06 22	710	11 06	625	85	22
686	686	691	690	694	689	695	694	690	05 54	728	13 50	652	76	23
689	688	699	699	698	698	704	706	693	04 32	718	10 50	655	63	24
697	694	705	708	709	710	708	708	703	04 58	719	14 13	683	36	25
694	696	705	707	710	706	704	706	703	06 03	720	15 42	683	37	26
692	702	708	711	714	714	710	705	705	01 01	729	12 49	686	43	27
696	703	709	719	720	719	719	717	708	19 20	733	12 49	684	49	28
699	703	709	714	720	719	713	715	711	08 30	736	12 18	677	59	29
706	709	713	718	719	719	719	717	713	07 16	726	11 40	695	31	30 *
709	712	717	719	719	722	723	723	714	07 43	730	11 50	689	41	31 *
688	693	699	701	702	701	698	698	697	-	725	-	666	59.3	Mean
702	706	708	710	712	712	711	710	708	-	724	-	690	34.2	Mean *
663	672	680	673	683	673	665	670	679	-	730	-	617	113.2	Mean **
18000 γ + Tabular Quantities (in γ)														
									h m		h m		γ	
682	692	701	710	719	723	720	718	710	05 09	738	16 23	677	61	1
719	692	689	675	686	698	702	687	704	16 06	728	19 47	662	66	2
690	686	675	694	690	694	703	699	689	22 56	737	12 38	654	83	3
692	696	696	696	697	687	700	703	693	05 33	726	11 59	668	58	4
671	679	683	689	693	694	693	679	695	07 30	724	11 35	657	67	5
702	690	695	700	704	705	711	713	697	08 27	716	02 14	676	40	6
702	705	708	710	711	713	715	712	705	07 28	722	11 37	688	34	7 *
693	699	699	707	713	715	713	713	708	08 05	730	12 33	675	55	8
718	723	724	720	720	724	724	724	715	18 23	734	02 05	696	38	9 *
703	708	715	721	721	721	720	719	718	04 30	738	16 19	703	35	10 *
708	702	685	692	685	677	698	707	709	08 04	735	21 32	672	63	11
703	712	717	720	720	721	718	717	709	19 41	724	13 12	690	34	12
707	712	717	712	682	664	631	643	709	07 49	742	22 30	†623	119	13
678	688	687	678	680	689	685	689	691	20 48	725	20 04	647	78	14 **
678	673	685	692	707	712	712	709	694	21 28	716	15 06	665	51	15
688	698	699	708	708	703	732	727	707	22 30	†746	15 42	655	91	16 **
702	708	681	689	701	707	701	702	702	10 14	724	18 33	671	53	17 **
675	682	665	678	701	703	703	708	692	02 56	734	18 56	648	86	18 **
690	688	699	677	676	698	680	697	695	08 23	718	20 18	655	63	19
678	692	701	706	708	707	717	721	697	22 16	727	16 24	666	61	20
676	702	705	706	718	713	707	709	702	04 29	736	16 37	656	80	21 **
704	707	711	713	706	712	709	711	710	21 10	725	12 14	696	29	22
686	689	702	709	712	710	712	714	707	06 49	725	16 58	671	54	23
705	708	715	717	719	716	713	713	714	06 37	726	16 31	704	22	24 *
711	715	718	722	719	713	727	723	713	22 28	734	11 50	699	35	25 *
715	717	721	723	723	721	718	715	717	18 03	728	11 55	702	26	26
701	707	697	713	721	717	733	732	710	06 20	744	04 05	677	67	27
709	714	717	719	722	723	723	727	712	00 00	730	10 52	681	49	28
707	709	708	718	704	694	694	706	707	06 40	†746	10 53	675	71	29
696	700	701	704	706	706	707	708	705	-	730	-	673	57.6	Mean
708	712	716	718	718	717	720	718	713	-	731	-	698	32.8	Mean *
684	696	687	692	702	703	706	707	699	-	733	-	655	77.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MARCH																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	708	708	717	713	711	708	712	722	719	709	699	700	695	692	695	701	
2 **	704	708	711	696	701	699	706	709	689	689	691	688	661	675	685	701	
3 **	702	708	703	702	713	721	717	699	709	696	683	691	679	692	691	688	
4	709	703	708	704	709	711	708	705	701	698	692	684	678	672	687	691	
5	706	705	705	703	708	718	717	701	707	702	696	693	692	691	689	709	
6	714	708	715	713	719	718	723	721	716	704	690	701	705	703	700	709	
7 *	711	712	713	715	718	722	723	719	711	701	692	689	692	699	701	707	
8	727	725	728	731	734	737	721	738	735	712	693	683	682	682	689	679	
9	719	720	723	724	724	729	728	731	724	716	695	697	696	703	708	702	
10	722	722	727	723	725	724	727	728	701	659	677	683	680	679	687	685	
11 **	718	728	719	712	717	719	731	732	715	703	699	647	661	682	692	698	
12	712	717	709	708	709	713	715	712	704	692	687	685	680	679	692	695	
13 *	713	709	713	716	717	717	724	715	708	697	685	678	683	690	694	701	
14	716	719	717	717	719	725	726	724	719	702	692	696	696	702	705	719	
15	732	731	726	725	723	725	729	731	724	713	700	695	701	706	711	719	
16 **	639	656	653	688	686	662	691	671	669	658	648	638	628	634	653	663	
17	693	692	695	695	698	699	708	701	683	683	672	659	652	661	670	680	
18	717	712	708	708	709	708	705	725	718	708	700	691	686	685	691	698	
19	721	724	714	712	716	721	726	730	728	711	697	682	683	689	688	694	
20 *	721	719	718	717	714	715	722	722	718	710	698	693	695	698	703	709	
21	725	725	724	721	723	724	727	725	719	711	699	695	693	684	692	704	
22 *	724	721	719	723	728	727	726	722	718	708	698	701	705	699	711	719	
23 *	738	727	727	724	723	725	729	729	723	710	696	693	700	709	714	721	
24	725	731	741	745	738	734	734	730	723	715	699	703	706	709	714	730	
25	718	719	721	724	726	731	735	737	731	712	700	700	703	707	710	713	
26	715	712	716	720	720	722	728	727	713	702	700	704	700	706	702	713	
27	727	726	730	727	720	727	730	728	718	707	692	687	688	697	699	704	
28	725	725	724	724	726	734	738	736	726	705	689	687	696	706	706	706	
29	704	712	701	698	702	706	717	715	708	705	682	681	681	684	684	692	
30	752	724	706	709	712	711	716	722	716	704	691	698	700	697	717	720	
31 **	707	712	693	688	696	705	707	695	677	667	652	598	677	676	696	720	
Mean	715	715	714	714	716	717	721	719	712	700	690	685	686	690	696	703	
Mean *	721	718	718	719	720	721	725	721	716	705	694	691	695	699	705	711	
Mean **	694	702	696	697	703	701	710	701	692	683	675	652	661	672	683	694	
APRIL																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	541	524	611	571	597	603	627	660	701	748	701	675	751	781	783	837	
2	540	546	596	587	605	623	598	578	575	581	575	601	647	650	652	645	
3 **	723	671	663	685	670	648	659	675	680	678	658	638	623	631	641	649	
4	677	675	680	680	675	679	681	684	677	662	651	633	648	661	663	679	
5	698	717	706	728	713	695	692	698	695	660	651	646	643	665	680	698	
6	695	691	691	691	691	695	695	696	683	678	667	668	663	666	681	682	
7	706	701	698	702	698	703	702	697	690	680	671	671	678	688	698	703	
8	689	687	694	698	688	691	696	687	690	668	664	657	657	671	675	682	
9 *	712	706	702	699	718	711	716	709	694	679	681	678	669	673	678	684	
10	716	722	722	724	721	714	730	731	714	702	690	681	673	667	686	698	
11	682	676	688	687	694	696	699	701	691	674	652	650	652	671	693	707	
12	708	723	698	718	698	698	701	707	668	683	673	662	658	658	669	683	
13	709	707	703	707	716	720	727	734	702	690	676	665	665	675	678	690	
14	725	710	706	709	705	708	716	705	695	680	662	650	653	667	681	695	
15	720	710	709	721	711	736	720	716	709	691	675	662	672	672	684	697	
16	722	723	715	709	707	716	724	721	711	693	677	665	671	676	699	690	
17	700	697	706	702	701	713	711	700	690	664	651	652	661	680	685	694	
18	714	724	702	709	714	706	698	695	697	680	648	641	657	664	673	689	
19 *	713	711	709	704	705	707	706	701	696	690	680	673	676	680	687	697	
20 *	715	715	715	716	716	718	715	711	707	699	686	679	683	687	696	707	
21 *	720	720	721	721	721	721	719	715	707	699	696	689	694	700	708	716	
22 *	731	727	726	725	725	727	729	729	722	714	710	710	715	717	717	715	
23	731	729	727	729	729	735	732	720	709	700	702	702	706	710	714	722	
24 **	649	591	585	621	657	679	685	667	665	657	643	626	647	647	674	690	
25	666	709	684	680	687	678	664	665	637	627	636	609	629	657	675	697	
26	706	682	706	699	706	703	696	677	664	654	649	650	660	667	671	687	
27	706	699	697	700	699	696	690	681	681	674	671	670	678	683	689	693	
28 **	660	648	671	639	653	652	651	604	601	590	599	623	624	646	656	662	
29	697	683	665	676	681	666	685	652	676	661	661	645	636	654	665	679	
30 **	717	706	707	712	690	718	671	659	665	653	655	648	631	726	749	698	
Mean	693	688	690	692	693	695	695	689	683	674	664	658	664	676	687	695	
Mean *	718	716	715	713	717	717	717	713	705	696	691	686	687	691	697	704	
Mean **	658	628	647	646	653	660	659	653	662	665	651	642	655	686	701	707	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )													
MARCH													
										h m	h m	$\gamma$	
701	698	708	707	693	695	699	703	705	07 50	727	20 41	681	46
700	702	698	688	693	701	711	703	696	02 14	730	12 51	651	79
696	701	689	698	696	705	709	713	700	05 00	732	12 18	669	63
699	688	678	695	705	705	721	704	698	22 14	737	13 04	665	72
714	718	715	708	700	719	717	727	707	23 26	737	14 19	683	54
708	703	712	704	704	708	712	711	709	04 27	728	10 14	687	41
711	718	723	723	727	725	727	724	713	20 21	730	11 23	686	44
688	698	708	715	723	721	716	717	712	08 04	744	15 44	675	69
715	718	719	724	727	726	721	721	719	20 50	736	12 31	688	48
679	691	695	688	710	714	719	722	703	07 38	737	09 23	643	94
702	667	679	697	715	709	705	719	703	01 20	745	11 41	625	120
692	701	712	719	720	719	721	715	705	22 18	725	13 22	672	33
704	713	717	720	719	724	726	723	709	21 05	734	11 41	677	37
718	729	732	736	738	737	737	742	719	23 15	744	10 03	690	54
710	709	696	706	698	696	697	675	712	00 57	736	23 54	633	103
677	662	671	652	679	690	694	718	666	23 08	738	00 16	615	123
688	698	699	708	713	706	710	716	691	20 37	733	12 09	645	88
704	712	717	718	721	722	728	728	709	23 05	747	12 42	678	69
691	708	716	718	718	721	721	722	710	07 13	733	11 49	674	59
712	717	720	723	725	725	725	725	714	21 05	728	11 30	691	37
714	719	721	722	722	723	724	723	715	06 59	728	13 00	673	55
723	726	724	727	724	725	727	732	719	23 40	736	13 20	695	41
725	723	727	727	729	730	735	733	722	00 15	745	11 10	692	53
708	719	725	729	721	735	735	723	724	01 58	750	10 48	694	56
717	720	730	723	727	726	728	728	720	23 50	741	10 21	697	44
716	723	730	730	731	731	730	728	717	18 54	734	10 10	695	39
709	717	724	730	733	732	732	728	717	02 21	736	11 05	682	54
698	690	721	724	733	727	720	719	716	20 33	744	11 55	680	64
701	712	717	722	724	726	732	764	707	23 56	771	10 54	674	97
727	705	718	698	690	685	678	704	708	00 00	769	22 41	666	103
808	658	689	730	696	669	626	685	689	16 41	†844	22 29	†463	381
708	705	711	713	715	715	716	719	708	-	742	-	666	76.1
715	719	722	724	725	726	728	727	715	-	735	-	688	46.4
717	678	685	693	696	695	689	708	691	-	758	-	605	153.2
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )													
APRIL													
										h m	h m	$\gamma$	
863	810	571	533	530	498	531	560	650	16 57	1189	03 48	†395	794
640	647	659	668	675	675	681	702	623	23 34	714	00 05	529	185
672	678	686	678	681	677	677	675	667	00 41	735	13 05	607	128
672	692	688	693	701	674	693	691	676	20 24	710	12 04	642	68
708	690	683	688	700	697	700	698	690	03 32	746	12 02	639	107
708	717	710	720	701	691	691	698	690	16 31	757	13 01	654	103
698	712	712	668	681	695	693	693	693	17 45	732	19 46	659	73
684	695	703	713	707	708	706	707	688	19 35	715	12 33	648	67
692	702	711	714	714	717	718	717	700	04 34	728	13 12	667	61
694	703	705	724	702	704	663	692	703	07 01	737	22 48	634	103
698	717	711	715	711	710	708	708	691	17 48	729	11 43	641	88
689	711	705	706	710	720	735	739	697	22 52	772	13 04	650	122
702	719	723	716	717	718	714	724	704	06 53	753	12 18	658	95
702	709	718	716	721	720	732	732	701	23 19	742	11 52	643	99
703	724	731	729	723	722	718	723	707	05 36	758	12 01	656	102
680	688	694	706	695	711	710	711	701	01 08	734	13 07	655	79
711	717	717	712	709	703	695	701	695	17 09	733	10 29	648	85
703	715	711	715	716	718	717	723	697	01 17	749	10 57	629	120
707	714	716	716	715	715	716	715	702	00 33	721	12 23	672	49
716	719	720	720	719	718	717	719	709	23 39	723	11 43	678	45
730	735	731	736	730	729	731	736	718	23 56	743	11 38	685	58
717	723	731	730	733	731	730	730	723	00 00	740	11 04	704	36
730	729	735	749	747	722	694	675	720	20 10	756	23 47	663	93
706	710	706	696	696	721	696	670	666	21 22	761	02 06	549	212
699	726	707	694	686	688	697	697	675	01 19	741	11 26	595	146
701	701	709	704	700	699	701	735	689	23 20	756	11 02	648	108
699	706	720	716	756	726	706	688	697	20 04	786	23 33	642	144
674	705	705	666	678	685	682	700	653	17 58	723	08 46	571	152
695	695	710	718	690	697	708	711	679	19 43	768	11 56	617	151
880	1104	703	677	610	539	575	593	695	17 33	†1338	21 16	494	844
709	724	704	701	698	694	695	699	690	-	776	-	626	150.6
712	719	722	723	722	722	722	723	710	-	731	-	681	49.8
759	801	674	650	639	624	632	640	666	-	949	-	523	426.0

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>MAY</b>																	
	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1 **	581	580	638	607	626	634	642	644	640	630	631	621	610	623	640	644	
2	677	676	676	674	653	676	679	674	667	658	654	639	658	672	676	694	
3	701	699	700	701	701	703	702	694	689	687	668	673	678	687	695	703	
4 *	711	713	711	707	707	711	710	706	703	697	689	685	685	689	696	707	
5	712	713	715	716	718	719	719	713	704	698	689	688	689	689	703	709	
6 **	740	734	712	726	727	726	718	711	696	685	676	694	705	693	708	728	
7 **	671	695	693	675	686	695	702	708	708	696	684	686	706	676	671	694	
8 **	706	705	703	696	716	740	723	727	721	628	671	696	665	643	670	679	
9	690	686	688	690	694	691	690	683	680	681	681	666	661	668	665	678	
10	704	704	705	703	698	699	699	695	682	684	685	679	673	678	686	686	
11	718	711	709	711	729	721	745	726	671	709	700	686	673	653	648	665	
12	700	699	698	692	678	688	696	691	675	678	656	660	666	670	673	681	
13	719	715	709	711	713	708	708	706	700	698	696	696	699	706	711	709	
14	706	706	716	716	712	717	722	719	700	678	679	668	676	676	689	706	
15	720	719	719	716	715	715	715	709	697	684	678	666	663	678	681	693	
16	718	716	714	715	714	708	705	705	700	689	680	686	688	696	735	755	
17	746	746	731	728	728	723	723	725	714	700	688	692	686	686	681	701	
18 *	725	721	718	715	716	718	712	709	706	702	697	694	694	699	708	718	
19 *	730	721	718	716	716	718	716	710	706	700	700	700	700	709	716	721	
20 *	730	728	726	730	734	734	725	716	709	710	710	710	714	717	721	729	
21	740	738	732	731	732	732	725	718	712	710	714	720	731	740	720	728	
22 *	729	728	729	730	733	733	728	720	713	706	705	708	715	718	728	740	
23	749	746	744	744	748	749	741	728	718	718	722	728	733	735	759	776	
24	754	743	724	723	745	736	693	728	713	695	695	689	679	686	695	705	
25	708	699	710	701	708	716	713	705	696	693	696	692	689	686	680	708	
26	729	710	708	708	698	703	698	688	693	689	686	678	679	679	694	704	
27	737	706	722	706	698	695	686	672	658	653	656	668	678	686	689	706	
28	722	718	716	722	721	714	704	690	683	683	690	698	696	695	698	708	
29 **	750	734	740	710	699	693	694	685	685	690	696	703	710	726	711	708	
30	746	748	738	738	731	725	718	718	706	708	711	700	685	699	696	711	
31	720	720	721	725	729	730	724	718	716	711	711	708	714	714	720	718	
Mean	716	712	712	709	710	712	709	705	696	689	687	686	687	689	696	707	
Mean *	725	722	720	720	721	723	718	712	707	703	700	699	702	706	714	723	
Mean **	690	690	697	683	691	698	696	695	690	666	672	680	679	672	680	691	
<b>JUNE</b>																	
	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	741	746	735	756	736	704	725	699	691	693	670	655	664	666	684	706	
2 *	729	724	720	719	720	720	719	715	708	699	692	694	697	701	710	720	
3	729	727	723	723	723	722	721	719	714	708	707	709	706	712	715	724	
4 **	718	721	720	774	742	724	688	675	717	700	673	659	658	661	670	684	
5	716	700	712	696	724	725	698	699	685	670	650	636	640	641	664	694	
6	711	704	719	730	716	712	700	695	686	681	665	645	679	678	685	709	
7	733	722	729	721	724	721	719	723	713	692	699	705	689	690	690	704	
8	725	719	723	740	719	725	708	706	697	704	706	695	704	710	713	713	
9	718	725	718	724	698	705	690	694	679	674	674	675	693	704	695	712	
10 *	720	717	718	718	721	724	719	707	698	691	684	689	695	698	703	711	
11 *	728	730	729	725	727	719	710	697	688	689	698	703	704	708	712	721	
12 *	730	728	731	732	736	733	723	709	699	700	711	719	722	713	716	719	
13	742	742	739	736	734	738	737	731	723	713	707	705	708	710	714	715	
14	747	749	745	745	743	744	735	725	717	712	707	709	684	689	687	707	
15	729	734	729	727	725	722	719	714	695	698	702	704	705	705	717	728	
16 *	735	735	737	734	735	735	725	722	715	705	695	693	697	703	709	722	
17	745	733	723	725	727	726	724	719	712	708	701	697	698	703	715	728	
18	739	734	744	739	736	736	729	719	710	703	695	683	705	713	705	724	
19	743	748	736	749	746	731	733	733	708	698	704	698	698	707	698	703	
20	718	723	723	738	734	724	718	708	698	689	688	695	707	710	715	722	
21	743	737	738	727	743	738	735	725	700	693	695	698	693	697	707	720	
22	728	725	728	748	730	722	717	705	700	692	690	692	700	703	714	724	
23	719	721	708	717	720	726	729	715	701	697	695	702	710	724	723	747	
24	728	734	729	729	729	729	720	714	713	709	710	699	697	695	703	724	
25	740	725	737	730	733	729	715	702	694	687	696	707	705	697	719	749	
26	715	725	745	725	724	694	694	684	677	680	685	688	690	685	692	709	
27 **	725	735	785	699	705	694	708	707	694	654	659	660	665	673	687	700	
28 **	723	730	723	715	715	725	735	717	705	699	693	659	647	671	684	691	
29 **	712	704	712	716	733	736	712	694	706	711	702	689	680	685	691	698	
30 **	717	708	704	698	723	709	700	690	671	656	640	645	665	665	678	706	
Mean	728	727	729	729	727	723	717	709	700	693	690	687	690	694	701	714	
Mean *	728	727	727	726	728	726	719	710	702	697	696	700	703	705	710	719	
Mean **	719	720	729	720	724	718	709	697	699	684	673	662	663	671	682	696	

\* International Quiet Day. \*\* International Disturbed Day.



TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	737	730	727	720	714	722	700	689	716	690	668	664	673	683	682	673	
2	726	719	721	718	720	726	728	713	723	711	693	676	680	698	698	717	
3	722	725	728	736	732	724	721	711	709	701	694	684	698	704	707	716	
4	734	749	724	728	716	726	722	707	697	693	693	683	684	686	694	703	
5	736	743	737	736	736	738	734	717	699	674	677	684	676	679	686	713	
6	727	726	714	716	723	727	718	703	690	673	646	664	687	709	708	708	
7 *	721	723	724	724	729	730	722	707	696	688	687	694	698	699	711	719	
8 *	734	731	727	726	730	734	723	712	706	707	698	697	704	709	709	725	
9 *	736	738	740	741	742	745	741	732	723	717	715	713	721	722	726	731	
10 **	745	738	735	738	736	742	741	738	731	734	707	704	707	711	713	723	
11	742	739	732	734	744	747	752	737	727	719	707	698	703	709	714	723	
12	742	741	741	741	740	735	723	725	717	706	698	691	697	696	705	702	
13	749	739	733	735	735	736	737	738	722	712	707	706	707	699	711	722	
14 **	742	737	735	734	740	737	747	740	722	703	693	693	693	691	696	726	
15 **	770	761	755	763	752	747	740	740	733	715	717	703	672	662	682	722	
16 **	616	636	675	671	687	675	621	611	600	606	617	613	622	626	637	676	
17	662	662	711	709	696	683	682	663	641	656	653	658	658	661	666	687	
18	708	702	702	716	715	713	702	697	689	679	676	675	667	680	688	693	
19 **	721	721	722	725	732	732	705	683	670	642	647	645	678	691	683	673	
20	719	711	705	702	703	702	695	683	663	655	656	652	666	693	706	695	
21	707	710	707	707	706	708	705	693	676	671	673	673	682	681	702	716	
22	736	725	717	713	707	711	710	701	698	693	682	677	693	703	705	713	
23	737	730	715	715	717	715	705	703	703	697	690	693	701	705	706	713	
24	747	737	728	728	723	725	723	723	726	733	730	723	715	706	702	706	
25 *	727	726	725	726	727	728	723	715	708	708	711	712	712	713	717	726	
26	733	732	728	727	730	732	727	726	723	716	711	711	715	717	715	730	
27 *	716	723	728	732	733	732	719	713	703	697	696	698	706	708	706	712	
28	736	733	733	733	735	733	723	720	720	721	723	725	717	720	729	736	
29	757	767	748	743	733	743	756	746	728	723	709	703	703	708	711	741	
30	740	709	723	723	725	726	726	726	723	721	715	701	686	706	722	731	
31 **	743	743	735	735	730	718	700	698	669	680	675	673	681	677	683	702	
Mean	728	726	725	726	725	726	718	710	702	695	689	687	690	695	701	712	
Mean *	727	728	729	730	732	734	726	716	707	703	701	703	708	710	714	723	
Mean **	718	720	724	726	728	722	703	694	679	669	670	665	669	669	676	700	
AUGUST																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	722	722	723	727	721	731	731	717	713	705	697	692	707	706	716	717	
2	723	725	726	722	739	735	729	717	705	702	696	698	700	698	703	705	
3	723	720	723	726	725	724	716	711	705	696	695	701	711	707	716	715	
4 *	733	736	741	735	731	735	726	723	709	691	697	697	708	707	712	715	
5 *	731	729	727	726	728	728	727	721	713	707	716	722	722	725	727	723	
6	735	737	731	737	738	738	735	731	717	702	707	714	727	734	731	740	
7	745	739	747	746	737	736	734	732	721	709	709	703	701	706	712	722	
8	742	741	742	745	742	739	733	707	701	717	721	715	729	724	718	750	
9	732	721	719	720	730	727	723	711	698	707	703	676	686	696	692	698	
10	744	745	737	741	739	740	730	711	693	706	720	716	717	703	692	693	
11	732	732	732	723	735	733	729	715	695	690	692	668	682	701	720	700	
12	760	746	741	741	752	729	728	700	710	707	701	680	663	665	677	688	
13	736	733	737	735	733	733	729	716	705	683	675	672	673	680	703	717	
14	726	727	729	728	733	739	733	725	713	701	686	676	678	687	702	725	
15	753	735	736	740	736	736	727	716	703	693	702	705	714	716	714	713	
16 **	748	743	739	734	736	735	729	723	717	708	703	705	706	708	769	783	
17 **	738	683	692	696	683	706	700	641	601	650	660	643	636	666	663	693	
18	702	706	697	706	706	706	694	685	673	641	646	663	667	670	669	678	
19	719	715	715	715	715	710	704	691	677	661	656	677	692	701	687	687	
20	714	716	719	719	716	694	701	687	688	682	681	685	687	676	685	692	
21 **	723	712	716	712	712	707	700	691	666	654	690	712	719	722	710	697	
22	733	726	722	709	708	707	701	687	677	673	688	701	710	717	713	709	
23	723	725	722	717	720	719	717	711	704	700	697	698	700	709	713	719	
24 *	737	732	733	736	735	731	721	707	698	691	696	704	709	721	727	732	
25 *	731	733	730	730	729	727	719	707	696	689	689	691	699	709	720	727	
26 *	745	743	742	739	737	735	727	718	708	700	699	707	713	720	727	727	
27	764	752	747	741	735	737	738	728	717	711	707	706	717	728	736	737	
28	745	741	740	736	736	721	715	704	703	689	685	687	695	682	687	694	
29 **	774	767	761	771	763	764	741	707	697	693	678	673	676	681	701	719	
30 **	708	717	740	691	733	704	664	637	630	645	632	640	667	656	668	665	
31	725	715	718	717	734	732	717	711	681	661	666	668	675	685	682	692	
Mean	734	729	730	728	730	727	720	706	695	689	690	690	696	700	706	712	
Mean *	735	735	735	733	732	731	724	715	705	696	699	704	710	716	723	725	
Mean **	738	724	730	721	725	723	707	680	662	670	673	675	681	687	702	711	

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
									h m		h m		$\gamma$	
693	707	768	756	723	716	717	722	708	18 39	783	11 32	661	122	1
714	720	731	731	731	728	727	723	716	00 45	751	11 16	667	84	2
724	736	747	755	748	728	732	727	721	19 32	769	11 25	676	93	3
737	727	749	740	742	724	728	732	717	01 25	764	11 00	676	88	4
713	726	739	753	744	733	735	729	718	19 40	771	12 34	662	109	5
722	726	736	743	737	728	724	724	712	19 09	746	10 39	639	107	6
733	748	749	748	746	738	738	734	721	17 34	758	10 35	686	72	7 *
740	747	749	751	746	742	740	739	726	19 18	753	11 14	693	60	8 *
733	740	747	753	754	752	753	748	736	20 39	758	11 30	710	48	9 *
724	748	753	764	759	751	746	739	734	19 56	776	11 14	701	75	10
734	731	744	748	758	741	742	743	732	20 14	769	11 22	698	71	11
711	725	737	742	743	748	743	742	725	21 29	754	13 10	681	73	12
732	717	733	742	761	740	741	743	729	20 43	773	13 00	700	73	13
733	783	742	746	753	781	773	777	734	17 20	†871	14 27	679	192	14 **
759	773	746	718	711	699	632	631	721	16 32	829	22 43	606	223	15 **
703	690	708	713	692	681	672	666	655	19 06	731	00 11	†581	150	16 **
697	728	728	720	712	721	706	722	687	17 27	734	08 29	628	106	17
703	715	731	733	732	728	725	723	704	19 30	736	12 11	657	79	18
673	703	723	771	739	707	718	722	701	19 41	809	11 33	618	191	19 **
713	733	747	748	716	718	736	715	701	22 36	769	11 55	642	127	20
726	731	725	730	733	732	732	737	707	23 52	743	13 07	668	75	21
718	733	739	746	743	737	733	736	715	19 36	750	10 59	668	82	22
720	721	726	733	733	736	737	736	716	01 03	755	10 40	688	67	23
723	728	743	743	746	736	737	737	728	01 01	756	14 06	694	62	24
727	736	742	740	743	743	737	736	725	21 02	750	09 33	707	43	25 *
742	742	746	750	747	751	723	713	729	21 15	762	10 56	708	54	26
718	727	742	746	746	745	743	741	722	19 53	750	10 32	695	55	27 *
743	745	747	757	755	753	755	763	736	23 07	770	13 04	709	61	28
751	745	736	743	718	740	743	737	735	01 24	779	17 55	693	86	29
723	726	726	731	737	739	746	747	724	00 12	781	12 09	668	113	30
735	718	734	729	727	726	736	723	711	01 59	790	08 46	658	132	31 **
723	731	739	743	738	734	731	729	718	-	767	-	672	95.9	Mean
730	740	746	748	747	744	742	740	726	-	754	-	698	55.6	Mean *
721	733	731	735	724	719	706	704	704	-	806	-	628	177.6	Mean **
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
									h m		h m		$\gamma$	
728	732	741	733	733	733	737	727	721	22 20	744	10 44	686	58	1
723	746	733	726	729	736	742	722	720	22 00	766	10 56	692	74	2
730	735	732	735	733	732	730	730	720	19 33	741	10 31	692	49	3
722	732	733	741	735	731	727	726	723	02 32	743	09 24	684	59	4 *
726	728	737	733	737	736	736	735	727	20 08	739	09 35	706	33	5 *
746	735	739	750	750	747	743	741	734	20 53	759	09 31	699	60	6
736	732	743	747	750	747	746	742	731	16 53	768	12 01	699	69	7
739	726	716	724	724	727	734	736	729	16 08	761	08 11	695	66	8
713	712	723	721	733	735	733	736	714	00 12	752	11 37	667	85	9
702	733	726	727	736	738	733	733	723	01 06	753	15 36	683	70	10
704	723	750	741	747	744	743	750	720	18 41	768	11 12	657	111	11
698	723	733	740	743	742	743	738	719	00 53	769	12 02	651	118	12
722	732	741	738	735	737	733	725	718	18 43	750	11 32	666	84	13
737	756	763	757	762	737	743	753	726	18 02	772	12 01	671	101	14
715	731	741	740	752	747	746	743	727	00 13	770	09 04	690	80	15
761	742	728	715	686	684	693	703	725	15 53	†819	20 32	669	150	16 **
705	763	727	703	678	670	697	693	683	17 48	792	08 37	†562	230	17 **
688	688	707	721	720	721	721	720	691	24 00	726	09 43	627	99	18
719	718	737	737	720	714	727	711	704	16 23	760	10 02	647	113	19
711	716	715	709	717	718	719	717	703	17 30	737	13 38	662	75	20
717	732	734	740	727	731	736	756	713	23 14	765	09 18	644	121	21 **
717	715	721	736	728	730	728	731	712	19 31	751	09 16	669	82	22
728	718	726	729	733	732	733	732	718	22 28	736	10 47	692	44	23
737	738	731	736	737	737	734	731	725	17 06	746	09 44	687	59	24 *
728	737	741	748	748	747	748	746	724	19 29	752	09 49	687	65	25 *
727	729	742	751	747	737	744	743	729	19 34	753	10 23	698	55	26 *
745	743	716	736	734	759	744	748	734	21 06	772	11 11	698	74	27
712	730	729	730	733	737	737	738	717	00 37	754	14 03	678	76	28
729	726	722	709	704	699	693	701	719	00 26	810	11 31	659	151	29 **
694	699	693	706	712	721	713	710	685	02 34	757	11 06	610	147	30 **
701	710	721	722	722	726	726	720	705	21 49	740	09 16	658	82	31
721	728	730	732	730	730	731	730	717	-	759	-	670	88.4	Mean
728	733	737	742	741	738	738	736	725	-	747	-	692	54.2	Mean *
721	732	721	715	701	701	706	713	705	-	789	-	629	159.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>SEPTEMBER</b>																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	716	716	716	715	716	714	711	705	702	694	696	700	704	706	704	704	704
2	726	726	725	725	725	722	720	714	704	697	699	700	716	717	708	705	705
3 **	709	740	725	732	711	721	680	724	721	708	704	702	694	694	689	702	702
4 **	730	724	735	744	736	752	731	652	656	639	652	665	662	659	699	656	656
5 **	633	652	654	632	669	647	627	572	478	490	534	588	633	645	641	627	627
6	662	684	704	702	696	695	671	677	659	655	653	652	652	660	664	677	677
7 **	711	698	696	702	704	702	692	682	682	678	669	674	664	692	716	700	700
8	728	710	702	720	716	717	710	691	660	662	665	660	680	689	692	702	702
9	732	730	715	699	714	715	705	696	689	670	666	660	680	683	699	706	706
10	726	720	721	722	722	716	715	712	700	687	672	660	670	680	689	697	697
11	718	730	730	716	715	722	724	706	692	682	678	672	680	680	689	691	691
12	715	717	727	728	717	722	724	704	694	682	672	671	670	674	686	682	682
13	735	753	734	736	716	752	716	704	691	672	658	661	682	682	692	704	704
14	734	702	704	714	722	731	725	714	702	687	676	670	680	686	696	700	700
15 *	725	724	725	726	731	725	728	718	704	692	691	694	706	711	719	722	722
16 *	736	741	736	732	732	732	726	716	704	695	689	690	692	701	715	724	724
17	736	736	738	737	735	727	722	719	715	708	698	697	704	708	715	720	720
18	712	703	708	729	728	725	720	712	697	684	674	689	693	699	710	709	709
19 *	731	721	721	721	723	721	721	713	703	694	691	693	703	714	718	717	717
20	731	731	730	730	730	730	724	721	713	703	700	703	708	711	714	716	716
21	752	738	734	732	732	731	731	729	723	716	703	693	694	693	705	705	705
22	726	721	723	724	721	721	722	724	715	705	697	695	699	705	723	730	730
23	723	717	721	731	721	721	735	723	725	713	693	697	697	699	699	709	709
24	741	713	717	729	715	726	712	708	714	689	681	685	690	688	696	702	702
25 *	718	717	715	715	715	717	717	713	700	687	680	680	687	696	704	713	713
26	729	725	731	731	731	732	734	728	710	700	691	693	695	705	714	721	721
27	710	711	701	711	710	725	719	695	694	695	686	678	679	681	693	703	703
28	725	724	725	725	727	730	731	733	724	701	691	690	696	704	704	701	701
29	725	730	730	728	730	730	730	727	721	721	715	715	713	714	693	693	693
30 **	726	721	725	737	740	736	734	715	705	696	696	693	693	681	691	690	690
Mean	721	719	719	721	720	722	715	705	693	683	679	681	687	692	699	701	701
Mean *	725	724	723	722	723	722	721	713	703	692	689	691	698	706	712	716	716
Mean **	702	707	707	709	712	712	693	669	648	642	651	664	669	674	687	675	675
<b>OCTOBER</b>																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	733	732	728	722	720	720	740	720	690	673	690	680	679	672	662	682	682
2	714	709	722	740	740	732	713	700	690	655	653	659	658	673	685	682	682
3	709	702	702	704	709	713	713	713	706	690	650	663	667	689	694	700	700
4	715	713	714	720	722	724	728	720	712	699	684	684	690	698	709	707	707
5	690	706	708	704	700	701	700	713	704	698	695	695	694	689	689	692	692
6 **	689	703	716	780	771	694	678	684	689	700	684	620	615	681	638	693	693
7 **	435	525	622	544	552	603	636	599	598	548	563	614	637	656	664	683	683
8	690	687	694	695	684	681	674	677	660	661	624	642	644	652	654	665	665
9	703	708	706	694	709	694	691	700	685	675	650	652	669	684	680	690	690
10	688	698	690	690	692	692	692	692	690	679	674	675	680	689	692	692	692
11	712	718	710	710	715	720	700	685	699	680	674	675	679	684	690	694	694
12 *	714	710	710	712	717	717	720	713	704	690	680	679	681	692	702	709	709
13 *	725	726	728	728	724	718	722	725	718	704	694	692	693	707	719	722	722
14 *	732	732	732	732	732	730	733	732	724	708	698	693	698	703	713	720	720
15	730	730	730	732	738	739	742	744	742	733	716	705	691	692	689	706	706
16	712	710	709	710	715	715	721	722	719	710	696	687	682	684	694	706	706
17	718	714	718	719	723	725	730	728	718	706	693	688	686	694	694	708	708
18	719	731	727	735	723	738	733	722	708	701	692	683	687	690	683	685	685
19	701	702	700	699	704	712	717	719	711	702	695	689	686	687	694	697	697
20	715	715	716	713	721	718	722	723	716	698	691	683	678	677	682	687	687
21	715	715	712	713	717	724	725	715	706	697	683	683	692	697	699	705	705
22 *	723	722	722	724	725	727	730	728	721	709	698	694	696	702	707	713	713
23 *	731	731	731	732	735	735	736	735	729	716	708	709	719	728	732	729	729
24	729	728	728	728	729	731	732	732	728	716	709	706	704	712	719	718	718
25 **	713	718	721	721	721	719	702	719	692	659	647	662	659	669	659	663	663
26 **	678	688	659	674	694	698	659	667	653	625	627	631	631	649	631	658	658
27	694	707	691	690	681	692	701	703	688	672	618	626	640	668	668	664	664
28	702	708	732	716	717	706	700	688	681	661	647	640	642	657	654	647	647
29	708	732	707	717	716	707	700	692	681	681	646	623	662	657	678	688	688
30	708	702	710	706	713	708	699	687	678	668	652	643	658	674	681	672	672
31	736	710	706	700	703	720	716	693	702	698	672	678	681	672	680	689	689
Mean	703	707	710	710	712	711	710	706	698	684	671	669	673	683	685	692	692
Mean *	725	724	725	726	727	725	728	727	719	705	696	693	697	706	715	719	719
Mean **	650	673	689	688	692	687	683	678	664	641	642	641	644	665	651	676	676

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
SEPTEMBER														
										h m	h m	Y		
711	716	724	729	730	726	730	726	713	22 27	731	09 49	693	38	1 *
722	732	734	718	738	742	726	700	718	18 07	769	23 06	687	82	2
716	722	716	722	724	722	722	724	713	01 14	764	06 38	648	116	3 **
688	702	716	694	650	704	652	631	689	21 34	†810	22 20	567	243	4 **
664	682	685	697	692	702	697	716	636	23 08	747	09 08	†427	320	5 **
682	692	702	712	721	716	728	721	685	23 00	744	10 14	645	99	6
720	716	712	719	715	717	716	721	700	17 00	734	12 35	645	89	7 **
718	708	715	729	725	728	728	728	703	00 16	737	08 19	650	87	8
711	722	715	711	722	722	725	721	705	00 25	740	11 24	656	84	9
702	704	711	705	716	724	725	717	705	22 47	729	11 34	656	73	10
711	711	712	715	732	732	716	726	707	02 03	763	11 15	669	94	11
695	711	722	722	722	724	731	732	706	24 00	736	12 03	666	70	12
710	717	721	731	722	717	711	699	709	05 19	760	10 50	648	112	13
715	724	726	730	727	725	725	725	710	00 16	758	11 23	666	92	14
724	724	727	734	737	734	734	737	721	04 21	732	09 54	687	45	15 *
727	732	740	740	739	738	735	735	723	20 03	744	11 14	686	58	16 *
732	740	743	751	756	759	739	724	727	20 40	769	11 12	695	74	17
716	721	727	733	731	729	725	731	713	23 56	737	10 16	667	70	18
721	725	731	734	735	734	734	731	719	20 40	739	09 47	689	50	19 *
719	723	735	743	750	754	749	764	726	23 43	772	10 46	697	75	20
705	708	719	720	730	731	734	746	721	00 00	765	13 22	687	78	21
729	729	731	744	740	733	730	728	721	19 36	748	11 55	693	55	22
718	725	737	742	743	738	745	756	722	23 54	770	10 38	686	84	23
711	689	708	718	729	726	721	722	710	03 01	748	10 43	669	79	24
720	724	731	731	724	729	726	729	712	18 41	739	11 14	676	63	25 *
729	733	735	736	729	717	711	715	720	19 32	744	10 26	689	55	26
710	720	720	708	711	716	723	730	705	23 18	730	11 42	674	56	27
711	711	714	715	721	725	726	725	716	07 00	736	11 11	687	49	28
708	707	711	710	717	710	700	691	715	06 33	731	14 52	679	52	29
699	701	704	701	704	691	711	720	709	03 40	748	13 43	675	73	30 **
711	716	721	723	724	725	723	722	709	-	749	-	662	87.2	Mean
721	724	731	734	733	732	732	732	717	-	737	-	686	50.8	Mean *
697	705	707	707	697	707	700	702	689	-	761	-	592	168.2	Mean **

18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
OCTOBER														
										h m	h m	Y		
683	690	690	700	697	725	707	712	702	06 30	756	13 54	646	110	1 **
677	700	684	697	704	705	714	720	697	02 51	748	12 08	625	123	2
697	704	718	723	720	714	715	716	701	19 50	726	10 23	639	87	3
705	683	692	680	664	685	704	730	703	23 00	778	18 17	627	151	4
703	703	720	725	730	732	724	683	704	22 10	758	23 43	661	97	5
659	683	627	618	579	528	570	560	661	17 57	838	20 59	486	352	6 **
643	664	666	664	710	723	690	670	621	15 05	757	01 24	†340	417	7 **
670	674	684	682	688	683	685	706	673	23 44	715	10 28	600	115	8
684	684	682	710	700	700	711	697	690	19 34	737	10 50	636	101	9
693	696	690	693	691	702	710	702	691	22 33	719	10 29	673	46	10
695	700	705	709	710	714	712	713	700	01 01	733	10 03	665	68	11
713	719	724	725	724	732	740	735	711	22 13	750	11 42	676	74	12 *
724	728	730	730	732	734	738	734	721	21 53	749	11 24	690	59	13 *
723	728	732	733	734	736	733	733	723	21 34	738	11 05	692	46	14 *
709	692	696	694	709	716	724	719	717	07 47	750	19 13	670	80	15
713	721	724	725	725	725	719	723	711	23 55	729	12 56	678	51	16
713	718	717	717	720	724	725	722	713	06 22	733	12 18	683	50	17
691	683	672	673	689	680	687	697	701	05 33	742	18 50	655	87	18
693	705	705	703	705	707	708	713	702	07 38	723	12 03	679	44	19
683	700	715	723	723	716	706	702	705	20 01	727	13 16	674	53	20
709	714	711	713	717	728	714	718	709	21 22	738	11 16	678	60	21
718	727	733	735	736	735	735	733	721	21 00	736	11 28	694	42	22 *
729	733	738	737	743	739	737	734	730	20 52	752	11 10	706	46	23 *
698	672	682	686	720	711	710	718	714	14 55	749	17 24	658	91	24
734	722	580	616	621	648	652	682	679	16 07	†896	18 30	556	340	25 **
657	668	690	721	698	696	719	706	670	19 55	748	14 39	604	144	26 **
660	666	681	668	677	699	692	690	677	21 24	723	10 47	603	120	27
650	678	675	684	712	707	721	706	685	02 23	753	12 26	628	125	28
656	681	698	712	695	698	704	699	689	01 11	767	11 13	603	164	29
687	702	696	692	697	706	706	720	690	23 45	735	11 44	631	104	30
691	696	693	698	720	702	705	713	699	00 31	752	10 46	656	96	31
692	698	695	700	703	705	707	707	697	-	750	-	636	114.3	Mean
721	727	731	732	734	735	737	734	721	-	745	-	692	53.4	Mean *
675	685	651	664	661	664	668	666	667	-	799	-	526	272.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	715	708	711	717	711	718	728	717	708	702	694	688	686	696	700	698	
2	712	715	722	728	728	734	732	721	701	689	680	684	684	684	684	693	695
3	727	741	727	709	722	724	731	728	714	695	681	676	685	688	695	700	
4 **	687	701	668	708	735	698	713	694	692	663	664	662	657	675	671	700	
5	717	705	707	705	712	721	717	718	707	703	687	681	677	674	684	694	
6	713	714	715	716	720	725	725	723	721	709	702	694	693	699	709	711	
7 *	721	713	717	726	725	731	738	736	727	715	710	698	692	693	697	703	
8 *	727	726	726	728	731	735	733	732	721	710	701	698	700	706	713	717	
9 *	726	717	721	721	722	731	731	731	729	717	711	706	709	716	718	717	
10	727	727	727	728	731	733	737	743	741	731	715	705	707	717	727	727	
11	738	736	742	741	751	760	758	737	735	731	709	692	701	711	707	707	
12	713	716	721	727	731	736	736	732	727	722	715	707	710	716	730	747	
13 **	467	629	584	605	631	559	351	181	435	525	536	624	598	599	657	634	
14 **	593	619	623	646	650	657	655	665	666	656	651	642	643	657	652	667	
15 **	671	674	686	685	680	681	685	673	683	684	687	681	673	689	689	697	
16 **	531	599	528	578	625	615	632	609	609	626	646	649	649	651	657	665	
17	700	690	681	684	687	689	696	700	697	696	696	695	687	686	686	676	
18 *	687	691	703	695	691	693	695	694	692	687	685	683	682	685	690	695	
19 *	706	706	707	709	712	721	723	726	727	721	721	725	716	716	706	707	
20	723	717	725	727	731	732	725	722	712	705	709	705	706	703	692	701	
21	717	719	721	723	724	732	751	711	701	685	690	679	659	667	677	661	
22	682	682	707	687	695	682	700	706	680	687	686	668	667	676	679	681	
23	709	710	717	717	719	720	719	729	719	712	702	699	700	701	697	699	
24	702	703	716	709	717	725	729	720	720	719	716	711	713	717	717	722	
25	707	705	711	733	732	734	724	720	687	695	685	667	687	691	659	666	
26	700	706	716	717	705	715	711	705	690	689	694	696	685	694	700	701	
27	728	716	712	715	722	731	726	728	716	716	714	705	705	700	686	690	
28	721	705	706	718	716	735	729	722	710	691	695	700	699	690	700	706	
29	724	712	720	720	725	727	728	730	726	725	716	703	702	706	709	710	
30	716	712	714	716	738	732	732	728	728	725	718	715	713	714	712	710	
Mean	694	700	699	705	711	711	706	696	697	694	691	688	686	691	694	697	
Mean *	713	711	715	716	716	722	724	724	719	710	706	702	700	703	705	708	
Mean **	590	644	618	644	664	642	607	564	617	631	637	652	644	654	665	673	
DECEMBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	710	700	711	746	756	696	685	679	687	678	666	666	659	645	643	654	
2 **	673	676	682	682	697	700	690	700	695	685	673	684	669	672	682	683	
3	704	704	707	710	717	725	726	723	714	702	694	694	694	699	701	705	
4 *	715	716	715	719	724	728	727	726	729	729	724	716	706	700	705	694	
5	716	716	716	716	720	736	736	730	728	727	725	715	701	707	703	700	
6	729	730	731	734	735	741	753	746	740	730	722	716	700	701	689	685	
7	701	704	715	714	713	733	727	722	716	712	711	712	707	688	699	696	
8	696	699	701	701	709	736	738	736	726	716	699	703	708	709	709	709	
9	722	720	713	726	731	716	714	725	718	700	704	706	702	704	686	704	
10	728	718	716	726	722	724	725	725	722	718	715	710	713	715	710	710	
11 *	728	726	728	728	730	735	734	736	732	724	715	708	707	702	705	702	
12	725	716	719	719	724	729	735	728	730	725	720	709	709	707	698	703	
13	709	712	708	721	715	717	723	718	707	704	700	699	689	699	708	714	
14 *	725	727	730	734	735	735	738	743	739	736	734	746	749	743	738	729	
15 **	738	744	744	751	750	743	736	724	709	703	694	688	680	676	648	653	
16 **	644	667	662	676	698	708	702	685	689	675	683	685	685	698	698	699	
17 *	706	707	709	711	713	716	710	720	723	722	718	716	712	707	704	707	
18	721	721	724	739	736	742	732	710	729	719	695	705	699	688	679	669	
19	717	709	709	711	717	732	731	724	719	717	701	707	713	712	711	713	
20	708	713	719	722	726	736	731	723	715	701	705	705	709	713	715	714	
21	717	712	719	715	719	719	718	719	725	723	723	725	732	730	720	672	
22	717	726	711	719	719	722	724	725	718	712	708	713	720	720	725	714	
23	733	724	718	719	719	723	724	725	720	718	719	710	713	697	714	705	
24	723	724	730	727	731	730	729	728	724	719	725	733	730	709	713	723	
25 *	725	723	727	727	726	727	727	728	725	725	722	727	727	729	728	727	
26	737	719	720	733	742	744	749	742	725	721	728	729	717	727	731	731	
27 **	734	733	727	746	744	748	750	753	756	733	728	714	686	675	681	699	
28	691	683	693	694	700	711	713	701	692	678	674	672	699	705	679	683	
29	714	705	725	710	713	719	724	715	714	708	698	705	708	708	710	695	
30	720	717	715	723	717	724	733	728	714	704	703	695	697	703	699	708	
31	725	721	722	720	728	725	727	729	713	702	703	704	694	693	704	682	
Mean	715	713	715	720	723	726	726	723	719	712	707	707	704	703	701	699	
Mean *	720	720	722	724	726	728	727	731	730	727	723	723	720	716	716	712	
Mean **	700	704	705	720	729	719	713	708	707	695	689	687	676	673	670	678	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
706	716	722	718	712	718	717	717	709	21 40	738	11 58	677	61	1
700	711	717	717	722	738	716	712	710	21 24	750	10 32	676	74	2
711	711	717	722	716	692	678	693	708	01 47	748	22 27	667	81	3
686	677	685	703	697	700	704	696	689	04 20	750	12 19	649	101	4 **
703	708	709	711	713	714	712	713	704	00 11	727	13 42	667	60	5
713	715	715	711	721	715	720	720	713	20 38	727	11 53	691	36	6
707	715	721	724	726	728	729	729	718	06 48	741	12 56	690	51	7 *
720	725	725	727	726	721	715	718	720	05 50	736	11 14	694	42	8 *
719	721	726	726	726	726	726	726	722	06 49	733	11 32	704	29	9 *
733	737	741	742	746	743	745	740	731	07 58	751	12 02	699	52	10
712	717	721	729	730	729	721	725	727	06 12	771	12 01	690	81	11
754	767	717	677	657	662	593	619	711	17 11	799	22 35	552	247	12
604	649	693	696	625	644	643	631	575	19 17	†864	07 05	†80	944	13 **
671	676	687	694	681	676	672	671	657	19 26	739	00 46	529	210	14 **
686	669	685	675	676	654	738	665	682	22 10	801	23 56	615	186	15 **
677	673	679	686	688	690	685	687	639	23 50	712	00 41	433	279	16 **
695	688	674	691	696	687	687	689	690	19 51	727	18 14	662	65	17
699	706	710	711	711	709	707	706	696	02 24	716	00 36	679	37	18 *
707	713	717	720	722	727	723	725	717	21 49	733	14 58	702	31	19 *
704	713	716	719	721	720	717	720	715	05 26	737	14 12	688	49	20
667	649	660	660	687	696	711	709	694	06 38	765	15 42	622	143	21
677	681	693	704	707	706	735	710	691	22 23	758	11 40	660	98	22
701	706	707	710	706	709	707	700	709	07 08	735	14 31	695	40	23
721	724	726	727	727	715	690	729	717	23 20	747	22 36	673	74	24
675	683	676	680	673	679	699	709	695	03 42	757	14 26	650	107	25
707	711	714	707	685	701	707	712	703	24 00	733	12 24	676	57	26
689	676	685	688	707	719	700	709	708	05 50	741	17 21	662	79	27
713	718	724	719	716	716	715	714	712	05 41	741	13 30	681	60	28
716	726	726	716	716	716	720	719	718	00 12	740	11 38	695	45	29
717	720	710	727	719	712	710	700	718	19 13	765	23 05	689	76	30
700	703	707	708	705	705	705	704	700	-	749	-	633	116.5	Mean
710	716	720	722	722	722	720	721	714	-	732	-	694	38.0	Mean *
665	669	686	691	673	673	688	670	648	-	773	-	429	344.0	Mean **

18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
659	626	634	631	669	664	651	642	673	03 08	†800	19 20	609	191	1 **
679	688	702	710	724	727	709	699	691	20 29	737	12 51	634	103	2 **
705	709	713	714	717	718	717	715	709	06 17	728	10 12	691	37	3
697	702	704	701	714	714	716	718	714	08 30	731	15 43	691	40	4 *
703	699	709	716	726	730	729	729	718	05 33	740	17 52	694	46	5
676	661	648	659	691	697	699	701	709	06 22	756	18 50	635	121	6
696	702	724	705	701	694	726	704	709	05 40	738	21 17	673	65	7
712	714	719	721	723	724	725	722	715	06 42	752	00 35	682	70	8
700	706	705	724	716	710	723	728	713	23 38	746	14 33	669	77	9
715	715	719	716	718	736	730	729	720	21 00	745	12 08	704	41	10
723	728	728	730	717	706	715	718	721	07 36	739	15 20	699	40	11 *
699	704	696	679	693	701	718	700	712	06 31	740	19 04	659	81	12
715	715	717	721	720	723	724	725	713	06 49	734	12 45	684	50	13
727	729	729	729	726	729	733	734	734	12 04	754	00 12	725	29	14 *
649	633	604	606	608	604	637	659	683	01 50	759	21 15	†581	178	15 **
697	703	709	711	712	704	694	698	691	05 22	720	00 08	620	100	16 **
712	715	720	716	711	714	717	717	713	08 28	728	14 58	701	27	17 *
658	680	685	675	701	702	702	727	706	03 49	752	16 36	651	101	18 *
704	719	726	725	719	732	729	720	717	22 00	743	10 32	695	48	19
709	709	710	708	742	699	715	708	715	20 19	759	19 29	683	76	20
692	705	717	718	707	718	697	712	715	12 45	736	15 40	657	79	21
694	705	718	724	719	729	725	725	718	01 10	747	16 21	684	63	22
710	712	718	721	730	733	731	725	719	00 18	744	13 20	686	58	23
721	693	712	728	727	718	739	722	723	22 38	782	17 36	683	99	24
726	725	722	723	729	728	726	728	726	20 06	744	01 34	714	30	25 *
729	733	735	738	739	739	736	734	732	05 42	754	12 38	711	43	26
669	650	638	661	658	693	691	689	707	08 02	767	18 54	621	146	27 **
684	695	703	721	708	706	713	713	696	19 20	730	11 13	632	98	28
678	693	708	709	715	715	716	717	709	02 20	730	15 45	664	66	29
717	710	695	700	715	718	721	721	712	06 08	734	18 17	683	51	30
695	695	723	711	708	707	707	711	710	18 29	742	15 21	674	68	31
698	699	703	705	710	711	713	713	711	-	746	-	671	74.9	Mean
717	720	721	720	719	718	721	723	722	-	739	-	706	33.2	Mean *
671	660	657	664	674	678	676	677	689	-	757	-	613	143.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	493	491	491	495	496	497	496	495	492	488	485	480	479	486	490	496	
2 *	493	493	494	496	497	497	497	496	495	491	489	486	481	483	489	494	
3	493	489	488	490	492	495	494	493	492	490	486	483	484	483	489	493	
4	497	495	494	492	492	491	492	492	494	495	494	491	487	483	486	488	
5	494	489	487	489	488	485	482	484	489	493	491	485	484	483	493	495	
6	506	503	503	500	497	498	499	500	499	498	499	498	493	494	497	497	
7	498	498	495	496	495	494	494	493	488	489	493	495	493	493	494	492	
8	498	499	496	494	491	491	491	491	490	493	492	494	488	489	489	489	
9 *	497	495	495	493	492	492	490	490	490	490	491	490	485	488	489	489	
10 **	498	497	494	492	489	487	484	482	482	483	484	485	488	495	514	519	
11 **	510	508	506	501	499	498	499	499	498	496	497	493	496	502	526	518	
12	496	490	495	498	498	498	498	496	496	494	496	498	496	497	502	514	
13	500	499	497	495	496	496	496	496	491	487	488	489	491	497	502	503	
14 **	496	490	486	492	493	494	496	496	484	480	482	490	496	502	506	508	
15 **	543	519	504	495	497	506	509	506	503	500	494	492	494	500	507	511	
16	503	505	506	503	502	503	503	502	499	498	499	499	497	499	501	501	
17	500	498	497	496	496	493	492	490	489	490	492	490	486	482	489	491	
18	494	494	493	492	492	491	491	488	483	486	490	491	489	492	501	500	
19	490	487	489	491	492	494	496	497	497	496	492	489	483	491	495	496	
20	495	497	495	494	491	491	492	496	493	493	490	487	487	492	491	494	
21 **	495	492	472	481	484	489	491	490	490	486	486	483	497	492	495	502	
22	498	499	493	493	493	494	496	499	498	498	495	496	489	497	499	507	
23	502	500	500	498	496	492	489	492	495	494	495	494	493	500	512	512	
24	496	491	490	488	484	487	490	493	497	500	501	500	497	501	512	508	
25	498	495	492	491	491	490	490	491	492	491	490	491	491	493	498	500	
26	494	494	494	493	491	490	489	490	490	491	490	489	487	485	491	498	
27	495	491	493	491	489	489	489	489	490	488	483	483	483	484	489	494	
28	494	492	491	491	493	492	492	490	489	489	484	478	477	479	484	490	
29	489	488	488	487	487	487	487	485	485	484	474	473	474	477	479	484	
30 *	488	489	490	491	492	492	490	489	488	483	474	465	458	464	472	479	
31 *	485	487	487	488	488	490	488	488	488	489	484	474	466	466	474	481	
Mean	498	495	493	493	493	493	493	493	492	491	490	488	487	489	495	498	
Mean *	491	491	491	493	493	494	492	492	491	488	485	479	474	477	483	488	
Mean **	508	501	492	492	492	495	496	495	491	489	489	489	494	498	510	512	
FEBRUARY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	485	485	485	486	486	486	486	485	486	481	476	473	474	475	475	483	
2	489	489	489	490	490	492	492	492	493	491	480	476	471	471	477	480	
3	502	499	499	498	495	493	494	496	496	492	488	483	486	485	487	498	
4	493	494	490	491	495	488	489	491	492	486	477	480	478	480	484	490	
5	497	496	494	494	494	494	495	492	491	491	481	480	479	486	489	497	
6	507	507	494	483	489	489	488	485	484	486	486	483	480	486	490	492	
7 *	497	496	491	489	488	490	491	490	494	495	489	484	481	483	486	488	
8	493	492	491	490	490	489	487	487	487	486	484	476	477	481	485	490	
9 *	496	495	490	489	490	490	489	487	489	486	483	476	476	477	482	483	
10 *	488	489	488	486	484	484	483	483	485	486	483	479	482	485	489	489	
11	488	488	488	488	488	486	485	482	481	480	478	477	478	480	483	490	
12	498	496	489	486	487	488	488	488	488	487	480	472	475	479	486	489	
13	487	488	487	488	487	486	483	481	480	476	475	471	470	473	476	481	
14 **	494	488	485	483	485	481	483	484	485	483	482	476	478	486	496	504	
15	498	498	498	499	499	499	497	494	491	488	483	479	477	481	492	504	
16 **	497	497	488	488	493	494	493	491	492	487	477	472	473	474	484	497	
17 **	480	486	490	494	495	493	492	490	490	486	477	475	477	480	483	487	
18 **	507	503	488	477	474	468	470	480	487	482	480	478	480	484	490	500	
19	495	493	494	495	494	496	495	496	496	495	495	489	488	490	493	497	
20	487	476	478	482	483	487	491	492	492	489	484	481	476	477	483	492	
21 **	489	491	485	480	482	483	481	481	483	478	478	483	486	490	497	501	
22	493	492	491	491	491	491	489	488	487	486	481	475	477	478	477	484	
23	493	491	489	489	487	485	485	484	486	486	481	475	476	477	482	487	
24 *	494	494	493	492	489	488	487	486	487	490	485	479	479	484	484	486	
25 *	493	493	492	492	491	489	488	488	489	488	480	474	473	474	478	485	
26	487	488	489	490	490	489	488	487	489	487	477	468	470	471	476	487	
27	489	487	483	476	477	479	479	474	478	480	476	470	469	470	479	488	
28	483	486	488	490	489	489	488	486	487	484	478	479	478	479	480	486	
29	490	489	484	488	491	490	485	484	485	484	480	477	473	475	480	489	
Mean	493	492	489	488	489	488	488	487	488	486	481	477	477	480	484	490	
Mean *	494	493	491	490	488	488	488	487	489	489	484	478	478	481	484	486	
Mean **	493	493	487	484	486	484	484	485	487	483	479	477	479	483	490	498	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
502	504	503	502	499	497	495	492	493	18 06	503	12 36	479	24	1 *
499	502	505	507	504	500	498	496	495	19 13	508	12 12	481	27	2 *
497	500	504	504	501	499	497	496	493	18 18	505	13 22	482	23	3
493	494	495	498	498	498	499	497	493	00 30	500	13 40	482	18	4
498	504	508	507	507	507	513	515	495	23 06	525	13 05	476	49	5
499	499	500	501	501	501	501	500	499	00 03	510	12 36	491	19	6
493	493	495	498	499	500	499	498	495	21 04	502	08 48	487	15	7
492	492	492	493	494	497	497	497	493	01 17	500	12 54	487	13	8
490	492	494	493	494	495	498	499	492	23 03	501	12 34	485	16	9 *
546	541	524	527	537	504	511	511	503	16 40	574	07 20	465	109	10 **
520	519	513	508	508	508	507	507	506	14 38	538	11 38	489	49	11 **
509	507	507	508	508	509	497	499	500	21 09	526	01 36	486	40	12
506	506	507	508	507	506	501	494	498	19 03	516	09 18	486	30	13
504	500	498	513	540	535	524	529	501	20 19	550	09 37	471	79	14 **
516	516	517	518	512	509	503	502	507	00 08	551	11 11	488	63	15 **
499	506	507	505	501	500	500	502	502	18 06	508	22 29	495	13	16
491	494	497	500	498	497	496	495	493	00 30	501	13 04	479	22	17
499	500	502	505	504	506	503	499	495	21 53	508	08 57	477	31	18
496	498	500	500	499	497	496	495	494	18 20	503	12 33	483	20	19
498	503	505	504	502	503	503	498	496	22 20	505	11 52	483	22	20
512	542	542	550	516	511	513	505	501	19 48	†590	02 07	461	129	21 **
503	507	507	509	508	509	504	504	500	21 29	513	12 38	486	27	22
512	514	508	510	510	504	503	498	501	17 37	521	06 21	487	34	23
505	509	503	503	503	502	500	498	498	14 45	516	04 33	484	32	24
498	501	501	497	496	496	496	496	494	17 56	509	10 10	487	22	25
499	498	497	497	496	496	495	495	493	17 56	501	13 13	485	16	26
497	494	492	492	492	492	492	494	490	16 23	498	11 29	480	18	27
496	496	494	494	493	490	489	489	489	00 37	495	11 56	475	20	28
494	494	493	493	492	490	492	490	486	16 40	496	12 25	471	25	29
485	488	489	489	489	488	486	486	484	04 23	491	12 46	†457	34	30 *
485	488	489	489	489	488	485	484	484	05 32	490	12 37	465	25	31 *
501	503	503	504	503	501	500	499	496	-	515	-	480	34.3	Mean
492	495	496	496	495	494	492	491	490	-	499	-	473	25.2	Mean *
520	524	519	523	523	513	512	511	504	-	561	-	475	85.8	Mean **

43000  $\gamma$  + Tabular Quantities (in  $\gamma$ )

FEBRUARY

										h m	h m	$\gamma$		
492	496	498	498	496	493	489	488	486	18 24	499	13 07	472	27	1
488	496	513	531	531	518	514	507	494	20 05	546	13 50	468	78	2
509	506	510	514	512	508	505	490	498	19 23	517	11 30	478	39	3
495	500	501	509	509	517	510	502	493	21 33	523	12 34	473	50	4
506	505	510	512	512	513	516	513	497	22 26	520	12 12	477	43	5
497	501	503	505	504	502	500	497	493	00 19	510	12 47	479	31	6
491	492	493	493	494	494	493	493	491	00 35	498	12 53	480	18	7 *
497	502	502	501	500	498	496	495	491	17 07	506	11 28	475	31	8
484	484	485	488	488	488	490	489	486	01 18	500	12 54	475	25	9 *
490	491	490	489	488	487	487	488	486	17 15	492	11 54	477	15	10 *
495	497	500	504	508	512	507	499	490	21 50	514	10 48	475	39	11
493	493	491	489	487	486	487	487	487	01 16	501	11 25	473	28	12
484	489	488	487	497	510	519	510	486	22 03	523	12 47	470	53	13
511	513	514	520	536	504	502	500	495	20 13	†558	11 40	473	85	14 **
505	521	513	510	506	501	497	497	497	17 34	526	12 40	477	49	15
500	501	501	502	498	500	496	481	491	22 14	507	11 10	466	41	16 **
493	501	512	514	516	517	517	507	494	22 25	526	11 43	472	54	17 **
507	508	519	518	506	501	498	495	492	19 04	526	06 20	466	60	18 **
504	515	520	520	523	511	500	496	500	17 48	535	11 45	486	49	19
503	504	501	500	499	498	500	491	489	16 49	508	01 42	468	40	20
508	511	501	499	501	493	494	494	490	16 53	522	09 57	476	46	21 **
486	491	491	493	502	495	492	492	488	20 20	506	11 54	472	34	22
497	509	497	494	493	494	494	493	488	17 19	512	11 17	474	38	23
489	490	489	489	489	490	491	491	488	00 54	495	11 52	478	17	24 *
492	489	487	487	488	490	490	486	487	01 30	494	12 07	471	23	25 *
489	486	487	486	486	486	488	490	485	03 15	490	11 18	467	23	26
495	497	503	497	493	493	489	484	484	18 40	509	11 31	†462	47	27
492	490	489	489	489	488	486	486	486	03 31	491	10 43	476	15	28
493	494	496	496	500	510	510	500	489	21 45	517	12 42	472	45	29
496	499	500	501	502	500	499	495	490	-	513	-	473	39.4	Mean
489	489	489	489	489	490	490	489	488	-	496	-	476	19.6	Mean *
504	507	509	511	511	503	501	495	492	-	528	-	471	57.2	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>MARCH</b>																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	495	493	491	485	489	489	488	488	486	481	475	470	470	470	473	483	
2 **	498	496	490	486	491	490	489	489	486	484	479	469	470	474	477	487	
3 **	494	492	492	494	490	482	481	481	482	482	486	479	476	481	488	497	
4	495	493	493	494	494	493	494	496	499	496	490	481	479	481	489	521	
5	496	495	494	495	493	490	488	486	486	487	483	477	472	472	478	486	
6	486	490	489	488	484	482	484	490	492	492	489	480	475	476	482	490	
7 *	493	492	492	491	491	491	491	494	494	491	486	480	474	476	481	486	
8	489	487	486	485	486	485	484	484	487	487	484	476	474	480	482	490	
9	491	491	491	488	486	486	485	487	489	484	477	471	469	472	477	485	
10	490	488	488	487	487	487	486	487	488	482	482	472	467	472	479	493	
11 **	492	487	487	489	490	482	483	486	485	484	476	472	481	487	490	497	
12	489	486	488	492	495	495	493	492	487	485	478	474	473	480	487	492	
13 *	491	491	491	492	492	492	490	490	491	487	479	467	468	473	483	494	
14	487	489	490	490	491	490	489	490	488	480	473	472	470	475	485	490	
15	484	486	486	487	488	488	488	489	489	483	475	467	467	472	480	492	
16 **	524	497	481	471	446	442	459	482	491	490	493	491	491	497	502	509	
17	488	488	492	489	491	497	502	505	505	503	497	488	482	488	495	503	
18	492	491	488	492	493	493	493	501	498	495	486	479	478	481	487	497	
19	485	485	487	490	490	490	490	492	491	483	477	472	471	473	482	492	
20 *	490	488	488	490	490	490	492	495	497	494	486	482	483	485	490	494	
21	490	488	488	488	488	489	492	495	496	494	489	482	476	484	490	493	
22 *	491	489	488	488	486	486	487	491	492	487	480	473	470	472	478	482	
23 *	485	485	487	487	485	485	485	487	488	485	478	470	462	464	475	484	
24	485	478	475	475	474	475	477	480	479	473	469	462	461	464	471	482	
25	490	491	490	490	489	487	487	490	489	488	481	474	472	475	479	485	
26	485	486	486	488	488	487	487	487	483	474	465	457	458	469	480	487	
27	485	487	487	488	485	484	484	485	483	477	469	460	452	457	466	477	
28	485	486	487	488	489	487	485	487	484	474	459	452	456	459	466	479	
29	477	472	473	478	480	484	489	488	483	476	467	459	455	463	477	490	
30	466	469	477	482	488	488	489	490	487	478	466	458	456	465	476	498	
31 **	500	497	488	486	486	486	480	476	476	475	462	459	458	460	470	490	
Mean	490	488	487	488	487	486	487	489	489	485	479	472	470	474	481	491	
Mean *	490	489	489	490	489	489	489	491	492	489	482	474	471	474	481	488	
Mean **	502	494	488	485	481	476	478	483	484	483	479	474	475	480	485	496	
<b>APRIL</b>																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	350	417	505	362	347	464	512	518	508	502	490	508	595	640	714	810	
2	509	460	512	513	502	500	500	508	522	538	544	548	546	529	525	526	
3 **	510	496	488	474	454	458	446	460	488	497	502	503	499	500	505	510	
4	518	518	516	516	516	517	518	519	518	510	502	493	491	492	501	511	
5	509	506	500	498	490	493	506	511	505	501	494	484	482	483	498	548	
6	510	511	510	510	510	510	511	510	506	498	494	489	490	498	506	508	
7	506	499	499	499	496	496	502	505	500	492	482	476	478	485	492	508	
8	510	505	494	488	496	505	507	508	502	492	485	482	481	488	497	507	
9 *	506	502	496	491	489	489	492	496	495	495	493	483	479	483	492	497	
10	504	503	501	502	500	498	498	499	496	486	479	475	473	482	493	500	
11	480	493	502	505	505	503	507	511	508	501	496	490	490	495	503	517	
12	477	474	469	477	477	490	500	501	499	498	487	480	479	496	507	513	
13	489	494	485	489	495	480	482	479	486	487	479	475	478	487	496	504	
14	488	486	496	500	501	504	506	512	511	502	487	481	479	482	493	501	
15	495	495	495	496	493	474	484	494	496	491	484	476	466	469	481	492	
16	497	491	491	493	497	503	507	508	504	498	484	472	468	475	509	518	
17	487	493	482	478	492	497	503	512	513	505	498	485	476	479	487	496	
18	503	470	469	483	491	496	499	505	505	495	481	478	478	482	492	504	
19 *	499	499	499	499	501	506	509	508	506	500	492	483	481	482	487	492	
20 *	501	501	499	499	499	501	502	502	499	489	477	469	463	467	477	487	
21 *	502	502	501	501	499	499	498	493	489	479	469	461	457	462	473	478	
22 *	498	496	496	495	497	497	497	495	491	485	473	465	464	471	484	492	
23	496	497	498	498	497	496	494	493	488	478	461	455	457	465	478	485	
24 **	489	462	459	471	452	476	484	487	492	485	475	471	478	499	521	527	
25	455	454	467	484	499	495	496	507	497	488	477	479	483	497	524	538	
26	483	483	489	491	498	502	505	507	506	502	491	486	482	488	499	517	
27	490	499	504	509	510	510	510	506	500	490	475	465	468	479	493	506	
28 **	443	426	428	437	471	501	497	471	466	461	470	481	490	520	533	546	
29	491	447	483	500	491	460	471	470	477	480	485	482	493	500	507	517	
30 **	485	490	464	420	444	455	468	479	490	489	478	468	471	497	585	590	
Mean	489	486	490	486	487	493	497	499	499	494	486	481	484	492	508	521	
Mean *	501	500	498	497	497	498	500	499	496	490	481	472	469	473	483	489	
Mean **	455	458	469	433	434	471	481	483	489	487	483	486	507	531	572	597	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
494	501	503	518	523	511	503	498	491	20 18	536	11 47	466	70	1
501	507	511	516	516	512	509	498	493	19 25	520	11 54	465	55	2 **
504	510	519	512	511	507	503	502	494	18 40	525	12 52	474	51	3 **
515	521	525	523	516	512	508	497	500	18 17	528	12 30	477	51	4
493	496	496	502	510	501	492	490	490	20 59	517	13 06	470	47	5
498	498	498	502	506	497	495	495	490	20 23	511	12 47	475	36	6
490	489	488	490	490	491	491	490	488	08 19	497	12 33	473	24	7 *
497	501	498	496	492	492	494	496	488	17 32	501	12 17	473	28	8
488	491	489	489	489	489	490	490	485	00 00	494	11 57	465	29	9
507	510	512	519	506	499	496	492	491	19 33	523	12 13	464	59	10
512	529	527	513	504	498	497	493	493	17 58	542	10 54	468	74	11 **
502	504	498	496	492	492	493	491	490	17 08	507	12 27	472	35	12
501	501	498	494	493	490	487	485	488	17 05	506	11 41	465	41	13 *
491	490	488	486	485	484	484	483	485	16 23	494	12 22	468	26	14
502	520	533	542	520	522	522	523	496	19 15	559	11 44	465	94	15
522	532	538	552	542	522	515	481	499	20 12	571	05 17	439	132	16 **
515	517	516	513	513	505	498	494	499	20 08	526	12 20	482	44	17
503	504	502	498	497	496	496	491	493	17 17	506	12 34	477	29	18
497	502	501	498	497	495	493	492	489	17 32	502	12 23	470	32	19
496	495	493	493	493	492	491	491	491	08 47	500	11 40	481	19	20 *
496	495	493	492	492	492	492	491	490	08 30	498	12 32	476	22	21
484	486	486	488	489	490	490	487	485	08 02	493	12 56	468	25	22 *
488	488	488	488	488	488	491	488	483	22 20	493	12 45	460	33	23 *
492	494	492	498	494	491	487	488	480	19 25	502	11 52	460	42	24
488	489	490	489	487	487	486	490	486	23 41	497	12 40	472	25	25
492	489	488	486	485	484	483	485	482	04 11	491	11 58	456	35	26
485	488	488	486	485	482	483	483	479	03 45	489	12 15	451	38	27
498	501	500	502	508	494	483	484	483	20 26	516	11 28	449	67	28
497	499	499	494	491	490	490	479	481	17 15	501	12 09	453	48	29
521	525	530	531	533	538	519	509	493	21 43	549	12 13	453	96	30
556	657	592	642	589	559	514	405	507	17 17	†694	23 49	†313	381	31 **
501	507	506	508	504	500	496	489	490	-	519	-	461	57.7	Mean
492	492	491	491	491	490	490	488	487	-	498	-	469	28.4	Mean *
519	547	537	547	532	520	508	476	497	-	570	-	432	138.6	Mean **

43000 γ + Tabular Quantities (in γ)														
										h m	h m	γ		
900	856	737	644	498	531	531	529	561	16 56	†1157	03 48	†172	985	1 **
529	528	529	528	527	526	525	518	521	11 44	553	01 28	443	110	2
517	522	524	521	520	519	519	518	498	18 40	527	06 19	440	87	3 **
519	530	531	520	520	513	512	510	513	17 50	536	13 40	487	49	4
550	538	531	520	516	516	513	511	508	15 42	566	13 18	480	86	5
508	509	506	510	520	526	516	510	507	21 03	531	11 37	486	45	6
516	542	568	580	548	525	519	509	509	19 10	588	11 50	477	111	7
520	527	516	510	509	507	507	507	502	17 22	535	12 05	479	56	8
501	503	503	503	503	503	502	503	496	00 11	510	12 41	478	32	9 *
509	519	536	532	521	520	495	459	499	18 45	552	23 17	438	114	10
520	523	529	525	517	517	506	496	506	18 44	534	00 15	475	59	11
517	525	527	519	512	511	504	485	497	18 09	531	02 03	451	80	12
511	515	513	511	508	503	503	497	494	17 28	517	11 43	475	42	13
506	514	521	516	509	508	498	496	500	18 33	522	11 47	476	46	14
504	512	511	507	505	503	502	501	493	17 32	513	12 44	464	49	15
540	567	545	531	536	520	509	498	507	17 16	574	12 40	467	107	16
506	516	533	533	531	531	516	509	502	20 48	539	02 50	466	73	17
515	525	519	513	509	508	507	503	497	17 24	528	01 40	460	68	18
499	502	501	501	501	502	502	502	498	06 15	511	12 15	480	31	19 *
495	501	501	501	501	501	501	502	492	06 55	504	13 03	462	42	20 **
484	492	494	494	495	496	497	499	488	00 15	503	12 39	455	48	21 *
497	498	498	497	494	493	494	494	490	00 05	500	11 57	463	37	22 *
491	493	493	491	493	502	508	496	488	22 19	512	11 48	453	59	23
533	542	559	558	538	483	478	479	496	19 04	567	02 05	439	128	24 **
557	563	553	547	537	509	503	498	504	17 07	575	01 07	440	135	25
529	539	542	539	529	520	513	495	506	18 14	544	23 56	480	64	26
516	521	524	522	516	518	524	480	501	20 03	534	23 27	458	76	27
577	604	613	595	567	536	524	513	507	18 29	621	01 56	394	227	28 **
528	532	543	540	523	520	516	495	498	19 38	554	01 25	437	117	29
628	874	744	821	725	615	630	587	558	17 02	1043	03 46	416	627	30 **
534	548	541	538	524	516	512	503	505	-	576	-	450	126.3	Mean
495	499	499	499	499	499	499	500	493	-	506	-	468	38.0	Mean *
631	680	635	628	570	537	536	525	524	-	783	-	372	410.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	562	541	540	542	553	560	565	560	548	532	525	515	516	530	541	543	
2	526	523	521	519	512	524	530	535	531	523	516	509	510	515	518	524	
3	518	517	517	516	515	517	516	515	512	506	498	492	486	491	502	510	
4 *	515	513	512	512	516	518	518	515	512	509	500	491	491	495	498	506	
5	512	512	512	511	512	512	512	512	511	505	497	488	486	491	495	500	
6 **	501	493	497	501	503	503	504	502	499	492	482	477	478	492	506	523	
7 **	509	487	486	493	504	503	510	517	514	506	501	499	497	504	516	522	
8 **	500	508	512	512	497	484	485	491	483	477	494	491	488	514	549	667	
9	523	524	526	524	523	522	519	517	509	497	479	482	487	504	517	524	
10	517	517	517	518	520	523	519	514	510	504	494	488	491	502	510	519	
11	507	503	498	507	508	487	492	485	489	495	493	489	491	499	508	517	
12	508	511	513	513	504	494	493	494	497	493	482	476	481	492	506	513	
13	505	507	510	510	512	509	514	499	495	485	477	469	471	482	492	503	
14	503	504	503	504	504	502	498	495	492	489	480	470	472	484	498	509	
15	505	505	507	507	511	518	515	511	504	490	478	471	469	482	492	502	
16	504	505	505	507	509	513	515	513	505	489	472	461	460	468	474	500	
17	503	498	499	503	508	512	513	508	503	492	483	469	468	474	488	500	
18 *	505	503	501	502	504	507	506	502	496	489	482	474	479	487	500	510	
19 *	505	503	504	507	511	515	509	505	501	497	493	484	483	487	501	509	
20 *	505	504	504	505	506	510	509	502	493	488	478	473	476	484	492	499	
21	501	501	501	502	504	506	503	499	490	481	476	474	474	484	492	499	
22 *	502	500	500	502	503	506	505	502	495	485	473	464	463	470	482	488	
23	498	500	500	501	503	504	505	503	501	493	479	470	467	470	483	499	
24	499	494	495	490	486	483	480	482	486	480	474	468	478	496	509	521	
25	488	489	491	499	500	503	506	506	501	491	479	470	474	490	501	511	
26	492	494	494	491	496	506	511	509	506	490	473	466	468	484	494	502	
27	485	486	478	482	494	506	510	509	501	490	476	470	474	482	490	502	
28	505	504	502	504	506	510	507	505	498	490	480	468	463	474	486	495	
29 **	468	444	461	469	489	500	499	496	487	476	468	463	466	471	483	497	
30	502	502	501	504	507	510	510	501	491	485	476	476	485	502	520	540	
31	506	503	500	502	505	507	511	507	500	492	479	470	466	470	475	486	
Mean	506	503	503	505	507	509	509	507	502	494	485	478	479	489	501	514	
Mean *	506	505	504	506	508	511	509	505	499	494	485	477	478	485	495	502	
Mean **	508	495	499	503	509	510	513	513	506	497	494	489	489	502	519	550	
JUNE																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	499	488	484	474	468	466	468	475	476	465	465	470	479	489	496	497	
2 *	502	502	503	506	507	510	511	505	503	497	488	482	481	476	480	490	
3	502	501	501	502	503	505	504	502	499	492	480	470	469	474	481	488	
4 **	500	500	497	490	467	447	446	454	450	461	467	473	474	486	503	512	
5	514	505	482	471	468	472	476	479	482	479	481	482	496	509	521	529	
6	512	505	493	481	476	482	490	497	500	502	492	491	498	506	505	511	
7	508	501	496	492	498	503	507	506	499	493	490	482	479	490	504	507	
8	508	508	505	490	478	484	490	493	493	497	479	472	483	493	502	503	
9	492	482	488	492	489	489	493	499	500	500	489	482	479	490	499	509	
10 *	505	505	506	508	510	512	510	505	495	489	480	476	473	480	498	508	
11 *	500	500	499	502	507	509	509	509	504	493	481	473	472	476	489	498	
12 *	499	501	502	504	506	508	508	507	498	486	472	461	460	470	480	493	
13	496	495	496	497	502	506	507	504	499	492	477	469	469	469	477	488	
14	495	494	495	500	504	505	504	504	501	495	486	480	486	491	497	504	
15	501	499	499	502	506	506	504	500	497	491	483	475	473	477	488	495	
16 *	503	501	499	497	500	505	501	502	502	494	485	479	475	476	480	491	
17	499	494	496	498	501	506	508	506	503	498	492	485	477	479	486	497	
18	500	499	493	497	502	504	503	502	496	488	478	470	474	484	491	494	
19	501	498	497	494	492	492	489	485	480	478	477	472	474	485	502	512	
20	506	503	496	492	493	497	496	494	495	491	485	477	480	484	494	502	
21	505	500	498	493	482	479	477	476	474	471	464	462	471	485	497	507	
22	503	506	503	493	494	496	488	488	485	482	480	482	482	482	487	495	
23	503	495	498	503	506	501	496	495	488	479	472	468	475	485	491	499	
24	500	498	498	500	500	503	500	493	490	491	485	475	477	482	492	497	
25	501	498	496	498	502	503	498	494	489	480	475	467	466	478	493	507	
26	495	487	471	473	480	486	485	494	497	486	472	472	476	483	493	498	
27 **	492	493	474	434	429	429	446	473	482	480	483	480	478	483	490	498	
28 **	500	505	504	508	512	514	509	500	494	479	467	453	463	473	485	495	
29 **	500	499	493	486	496	490	494	491	494	486	477	474	471	468	477	494	
30 **	455	468	433	424	448	480	498	508	502	494	484	477	479	482	492	504	
Mean	500	498	493	490	491	493	494	495	492	487	480	474	476	483	492	501	
Mean *	502	502	502	503	506	509	508	506	500	492	481	474	472	476	485	496	
Mean **	489	493	480	468	470	472	479	485	484	480	476	471	473	478	489	501	

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m		h m		$\gamma$	
546	548	548	551	549	536	524	526	542	05 11	583	11 16	511	72	1 **	
529	530	529	530	528	522	519	518	523	07 25	538	11 23	507	31	2	
518	521	522	521	518	516	515	515	511	19 03	523	12 43	484	39	3	
513	517	517	519	519	521	516	512	511	21 55	523	11 58	489	34	4 *	
507	513	514	512	517	513	510	512	507	20 36	520	12 17	484	36	5	
537	562	595	574	560	537	521	516	515	17 59	601	11 21	472	129	6 **	
538	559	574	554	539	528	516	503	516	18 20	581	01 56	474	107	7 **	
648	591	565	548	535	534	530	524	526	15 28	†591	09 09	457	234	8 **	
531	532	524	520	518	517	516	516	515	16 56	533	10 36	467	66	9	
525	524	528	527	518	515	514	513	514	19 33	531	11 53	487	44	10	
522	524	524	523	518	517	506	506	504	19 35	530	05 28	477	53	11	
522	522	521	516	511	508	507	507	504	16 13	523	11 22	475	48	12	
517	522	520	520	518	509	507	503	502	17 16	522	11 55	466	56	13	
519	521	520	517	513	510	505	505	501	17 37	522	12 02	466	56	14	
513	520	520	517	513	509	507	507	503	18 20	522	11 53	466	56	15	
499	523	526	524	522	509	508	505	501	20 37	536	11 56	456	80	16	
510	515	515	510	508	507	507	506	500	06 32	524	11 59	462	62	17	
512	514	514	512	510	508	508	507	501	18 24	515	11 23	472	43	18 *	
515	517	514	512	510	508	506	504	504	17 05	517	12 38	482	35	19 *	
501	507	505	504	503	502	501	502	498	06 01	511	11 58	472	39	20 *	
504	507	508	504	503	502	502	502	497	17 55	509	12 13	473	36	21	
492	496	499	495	495	495	496	497	492	05 41	506	12 23	460	46	22 *	
504	513	518	517	511	500	501	503	498	18 28	519	12 09	466	53	23	
523	530	533	536	523	513	513	504	500	19 56	542	11 13	468	74	24	
516	530	540	529	517	511	511	509	503	18 29	547	12 05	469	78	25	
518	531	530	524	516	514	508	500	501	17 33	536	12 14	464	72	26	
509	516	522	525	518	511	508	507	498	19 31	527	11 33	469	58	27	
502	508	511	511	510	501	500	500	498	20 22	522	12 10	460	62	28	
506	516	522	521	528	515	505	504	490	20 45	532	01 20	†430	102	29 **	
547	548	543	530	520	512	510	507	510	17 25	552	10 54	474	78	30	
492	499	504	505	505	506	501	500	495	06 21	512	12 50	464	48	31	
520	525	527	523	518	513	510	508	506	-	537	-	472	65.4	Mean	
507	510	510	508	507	507	505	504	501	-	514	-	475	39.4	Mean *	
555	555	561	550	542	530	519	515	518	-	598	-	469	128.8	Mean **	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m		h m		$\gamma$	
502	503	504	510	510	509	506	503	488	19 44	513	09 35	460	53	1	
496	503	505	507	505	504	503	502	499	05 40	512	13 36	475	37	2 *	
491	498	506	512	513	515	501	501	496	21 50	521	11 57	467	54	3	
515	522	527	522	522	515	514	514	491	18 12	531	05 48	437	94	4 **	
533	534	536	537	530	518	515	514	503	19 58	546	04 16	465	81	5	
518	521	516	512	510	509	507	507	502	17 08	522	04 06	471	51	6	
510	516	520	524	517	510	509	508	503	19 19	528	12 11	477	51	7	
508	518	527	530	527	519	505	495	500	19 40	535	11 13	470	65	8	
512	519	527	520	509	505	504	504	499	18 29	531	12 23	479	52	9	
512	515	513	513	513	510	504	503	502	17 10	515	12 23	470	45	10 *	
506	511	510	507	504	501	498	498	498	18 00	512	12 55	471	41	11 *	
498	504	507	506	505	501	498	496	495	06 10	511	12 06	458	53	12 *	
497	505	511	512	504	499	498	495	494	19 27	511	12 40	466	45	13	
510	515	518	521	518	515	508	504	502	19 43	524	11 38	476	48	14	
507	514	519	521	518	512	506	504	500	18 56	523	11 49	472	51	15	
496	505	505	505	505	504	502	501	496	05 23	505	12 05	475	30	16 *	
508	511	509	506	503	502	502	502	499	16 53	513	12 45	475	38	17	
498	507	506	503	502	500	499	499	495	17 41	510	11 52	468	42	18	
516	523	528	531	527	523	512	506	500	19 18	532	12 04	470	62	19	
507	510	510	508	508	508	507	505	498	00 07	506	11 43	477	29	20	
517	526	530	528	518	513	508	506	495	18 53	534	11 07	459	75	21	
497	501	502	502	506	507	506	503	495	02 28	507	10 11	478	29	22	
507	515	513	510	507	502	501	500	496	17 34	515	11 25	466	49	23	
501	508	515	521	510	501	498	498	497	19 54	528	11 52	474	54	24	
522	530	534	531	529	508	494	494	499	20 40	540	12 28	463	77	25	
503	509	509	509	511	508	498	493	491	20 41	513	02 49	459	54	26	
510	521	533	545	538	517	487	494	487	19 42	552	04 54	418	134	27 **	
513	531	541	546	531	516	506	499	502	19 15	†556	11 31	448	108	28 **	
506	516	519	518	512	506	485	475	493	19 40	529	13 29	468	61	29 **	
522	536	529	524	529	523	506	505	492	17 50	544	03 04	†411	133	30 **	
508	515	518	518	515	509	503	501	497	-	524	-	464	59.9	Mean	
502	508	508	508	506	504	501	500	498	-	511	-	470	41.2	Mean *	
513	525	530	531	526	515	500	497	493	-	542	-	436	106.0	Mean **	

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	504	502	488	485	500	502	500	500	502	497	495	489	482	484	495	506	
2	501	491	493	496	500	504	506	508	512	510	500	493	494	496	496	504	
3	506	504	503	500	498	504	505	510	505	496	485	480	482	486	494	497	
4	504	490	486	486	488	495	497	497	494	483	479	478	475	479	489	498	
5	506	500	497	494	493	498	502	501	499	494	493	482	478	480	486	500	
6	500	495	489	495	501	506	506	502	491	479	474	470	472	481	490	501	
7 *	505	506	506	507	507	507	502	498	495	490	481	476	475	478	486	499	
8 *	502	503	505	507	508	511	510	508	501	487	475	470	472	479	487	498	
9 *	500	500	501	502	506	508	504	498	491	477	466	456	455	458	467	483	
10	499	498	497	500	503	506	505	501	497	492	482	467	460	466	478	491	
11	498	492	493	498	503	504	503	503	504	502	491	485	478	478	484	494	
12	497	494	494	496	500	504	506	509	509	503	498	491	489	489	502	515	
13	497	494	497	498	499	501	507	507	504	494	486	484	484	487	492	498	
14 **	499	497	498	500	502	499	500	497	488	481	480	481	487	495	504	509	
15 **	505	504	500	500	498	500	500	499	500	494	497	494	500	516	536	573	
16 **	435	386	402	421	445	478	482	487	489	499	504	501	517	522	533	544	
17	509	490	493	489	490	500	502	505	507	509	502	492	494	501	509	520	
18	510	510	510	507	509	507	509	507	504	497	493	489	488	492	504	515	
19 **	512	510	508	508	510	509	509	502	500	497	498	489	500	503	507	520	
20	489	500	503	508	510	515	516	510	503	499	488	478	483	492	503	515	
21	503	505	507	510	505	489	498	500	496	494	485	483	485	490	500	509	
22	504	504	504	505	505	504	501	499	490	484	480	479	479	489	498	506	
23	494	490	493	502	509	511	510	510	509	500	488	478	476	486	490	499	
24	499	496	500	504	503	505	505	505	501	495	475	462	470	473	479	490	
25 *	501	502	503	505	506	507	506	506	502	491	480	470	469	474	485	493	
26	499	500	501	501	505	506	505	504	495	484	478	479	476	480	482	484	
27 *	501	503	506	507	508	512	508	507	502	493	489	482	475	472	484	495	
28	497	500	501	502	505	507	505	501	493	484	472	464	467	470	474	482	
29	492	484	475	466	466	466	469	474	477	476	475	472	470	472	482	506	
30	497	488	486	485	490	501	503	503	502	496	493	489	489	492	504	511	
31 **	502	496	463	472	481	482	483	487	491	491	487	490	492	503	507	517	
Mean	499	495	494	495	498	502	502	501	498	493	486	480	481	486	494	506	
Mean *	502	503	504	506	507	509	506	503	498	488	478	471	469	472	482	494	
Mean **	491	479	474	480	487	494	495	494	494	492	493	491	499	508	517	533	
AUGUST																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	497	498	501	501	495	494	494	492	492	492	486	482	482	485	492	495	
2	502	497	493	485	482	488	495	502	501	502	496	491	486	490	495	501	
3	497	496	496	498	503	503	506	506	503	498	494	486	485	486	495	505	
4 *	502	496	495	493	496	493	497	497	495	491	491	493	487	484	494	506	
5 *	505	504	505	505	505	506	505	503	497	490	489	478	476	486	500	503	
6	502	503	504	504	504	505	504	502	497	493	483	475	473	479	490	502	
7	500	498	492	494	496	497	496	495	490	490	487	481	475	477	483	496	
8	497	497	498	500	502	504	503	499	488	472	454	450	459	468	483	503	
9	477	481	492	502	503	493	488	491	495	487	475	470	477	483	492	506	
10	499	497	495	499	505	509	513	510	504	499	493	478	474	477	488	504	
11	505	502	502	487	482	489	500	503	498	493	486	481	484	491	497	507	
12	501	490	492	492	490	486	490	491	486	484	482	475	479	488	498	508	
13	500	499	497	497	499	505	506	506	500	487	474	459	458	475	493	503	
14	500	498	497	495	499	504	506	505	499	495	491	485	479	476	485	494	
15	491	495	495	489	497	506	510	516	511	495	479	479	481	489	495	500	
16 **	499	497	496	498	502	504	503	503	497	488	479	465	455	470	499	536	
17 **	474	453	413	389	426	417	453	473	467	469	474	477	489	500	500	523	
18	520	514	515	519	520	521	514	510	509	503	489	487	489	499	508	518	
19	512	511	510	512	514	516	518	515	507	497	492	488	482	485	490	496	
20	510	513	514	514	514	513	493	487	482	480	480	478	486	494	508	515	
21 **	511	509	508	508	507	506	507	504	492	484	479	478	484	492	501	515	
22	495	481	487	500	508	510	510	510	499	485	474	473	469	478	491	504	
23	498	500	504	505	509	511	511	511	510	494	477	467	466	476	488	497	
24 *	501	499	500	502	505	507	507	505	497	487	476	473	474	483	490	502	
25 *	501	501	502	504	506	509	512	510	504	492	476	466	466	477	488	500	
26 *	497	498	499	501	504	506	508	507	501	491	471	457	458	468	482	495	
27	492	483	484	488	494	501	501	501	497	490	479	476	476	484	492	499	
28	501	501	500	492	487	488	496	500	500	494	487	478	473	479	489	500	
29 **	496	487	491	491	487	471	462	475	486	487	484	482	484	488	495	500	
30 **	476	477	443	416	418	420	442	465	480	485	489	492	500	517	532	543	
31	506	503	503	489	488	492	495	500	499	497	497	492	489	493	499	508	
Mean	499	496	494	493	495	496	498	500	496	490	483	477	477	484	495	506	
Mean *	501	500	500	501	503	504	506	504	499	490	481	473	472	480	491	501	
Mean **	491	485	470	460	468	464	473	484	484	483	481	479	482	493	505	523	

\* International Quiet Day. \*\* International Disturbed Day.



TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
SEPTEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	508	509	509	507	507	509	508	506	503	498	491	486	487	492	498	499	
2	504	504	504	504	503	502	503	499	489	483	479	481	481	487	501	514	
3 **	500	463	489	493	486	479	480	483	483	482	477	474	484	497	509	515	
4 **	508	503	504	504	497	490	484	489	490	492	494	500	508	521	544	550	
5 **	440	434	423	420	424	438	460	473	484	506	515	538	548	553	563	586	
6	500	511	513	515	515	521	507	503	503	502	495	490	494	505	519	531	
7 **	498	503	510	515	520	521	521	519	519	507	494	489	496	514	528	531	
8	509	504	504	504	505	508	511	511	511	504	493	487	492	507	520	530	
9	512	510	500	494	496	504	513	515	512	505	492	488	489	499	515	524	
10	510	508	510	512	513	515	519	520	515	505	493	484	490	494	503	523	
11	511	503	498	500	504	512	516	525	526	516	505	497	491	494	503	511	
12	500	496	500	502	505	510	510	510	509	504	494	489	489	498	509	520	
13	509	502	499	492	482	484	490	496	499	495	492	489	485	493	503	511	
14	492	494	503	505	500	498	502	505	503	498	490	490	492	494	502	505	
15 *	511	510	510	506	505	504	505	506	504	499	484	473	473	481	489	495	
16 *	505	503	503	503	503	503	505	510	503	491	482	473	470	475	485	492	
17	505	505	505	504	502	502	502	502	502	495	485	477	474	475	483	488	
18	498	501	494	496	492	491	495	499	499	493	491	486	486	491	499	506	
19 *	505	505	506	506	506	505	502	502	498	492	482	472	472	480	492	496	
20	504	504	504	505	504	504	504	504	500	490	476	474	479	486	494	502	
21	490	494	497	500	501	502	502	502	495	481	470	466	472	482	490	503	
22	498	500	502	502	502	502	502	504	501	491	481	474	476	485	492	502	
23	505	498	498	498	498	501	505	502	495	494	484	479	476	480	489	498	
24	495	497	490	480	492	498	497	492	489	489	484	478	472	474	488	499	
25 *	505	505	506	507	510	510	512	515	512	503	490	480	476	481	489	496	
26	501	500	497	500	501	502	504	506	502	496	486	474	473	480	482	492	
27	471	465	486	490	490	492	494	497	498	496	490	482	480	480	482	492	
28	503	503	503	503	503	503	504	507	505	498	493	491	490	491	493	501	
29	503	502	502	502	502	503	503	505	502	493	486	482	481	483	488	495	
30 **	485	483	483	482	482	483	487	492	495	492	489	483	488	495	508	523	
Mean	499	497	498	498	498	500	502	503	502	496	489	484	485	492	502	511	
Mean *	507	506	507	506	506	506	506	508	504	497	486	477	476	482	491	496	
Mean **	486	477	482	483	482	482	486	491	494	496	494	497	505	516	530	541	
OCTOBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	509	498	501	476	467	467	467	474	488	492	495	496	504	508	527	534	
2	506	494	474	470	470	467	466	467	477	490	502	507	528	538	566	565	
3	502	507	511	512	509	509	508	513	512	504	506	507	514	515	515	518	
4	508	509	510	510	509	508	508	509	507	504	498	493	488	495	503	536	
5	500	498	498	508	505	497	505	509	508	507	503	499	501	508	520	530	
6 **	503	505	477	444	419	441	453	467	487	488	492	502	520	544	590	662	
7 **	314	276	464	396	376	423	455	474	500	493	509	531	547	576	611	653	
8	485	458	481	495	505	510	520	523	520	513	509	506	505	521	532	536	
9	507	496	482	475	479	485	489	502	515	514	508	508	509	524	540	556	
10	506	506	496	495	506	516	520	526	526	520	513	501	500	502	509	517	
11	499	498	505	509	511	509	511	516	517	517	514	505	499	500	517	521	
12 *	516	515	516	516	517	517	517	520	520	516	506	496	493	496	502	508	
13 *	506	508	509	509	511	511	511	515	516	509	505	496	494	495	496	500	
14 *	509	508	508	507	508	507	507	509	511	509	498	490	489	491	497	502	
15	510	510	510	508	507	507	505	503	504	502	494	488	488	492	498	503	
16	517	517	517	516	515	513	511	511	513	509	500	492	494	502	506	511	
17	517	513	513	513	512	511	510	511	517	513	506	500	498	500	506	515	
18	516	505	494	493	496	495	495	497	504	507	505	506	507	510	521	531	
19	522	521	521	522	519	513	512	515	518	517	512	506	503	505	515	524	
20	515	516	515	513	515	513	513	516	516	512	507	502	503	509	518	527	
21	517	513	516	519	519	519	516	517	516	510	502	501	501	504	509	516	
22 *	511	512	513	514	514	514	513	514	513	507	494	484	483	489	499	508	
23 *	507	509	509	509	510	510	509	509	509	502	491	485	487	491	499	505	
24	508	508	508	508	509	510	509	508	504	499	491	487	489	493	501	518	
25 **	514	514	513	512	512	512	513	499	495	493	488	497	508	529	553	586	
26 **	483	469	461	475	483	488	500	512	519	520	529	533	544	564	569	580	
27	503	492	489	495	502	512	519	523	525	520	512	516	520	524	537	544	
28	514	503	489	497	493	493	487	499	505	509	511	521	538	549	552	563	
29	517	491	499	508	509	510	511	509	512	511	508	512	523	534	536	533	
30	513	507	499	505	509	509	512	517	521	513	512	523	524	526	542	543	
31	494	498	503	502	508	509	511	514	519	512	505	512	513	524	534	535	
Mean	502	496	500	498	498	500	503	506	510	507	504	503	507	515	526	538	
Mean *	510	510	511	511	512	512	511	513	514	509	499	490	489	492	499	505	
Mean **	465	452	483	461	451	466	478	485	498	497	503	512	525	544	570	603	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
502	502	502	503	504	508	509	505	502	22 03	510	11 40	485	25	1 *
519	513	514	517	514	510	513	515	502	23 00	527	12 19	479	48	2
519	516	519	515	510	511	510	510	496	18 47	521	01 25	456	65	3 **
551	561	591	554	544	516	463	469	514	18 18	†518	22 14	†408	210	4 **
581	571	594	564	542	534	532	510	510	18 47	614	03 46	409	205	5 **
531	532	531	531	520	515	508	484	511	17 36	533	11 50	488	45	6
532	538	546	531	525	521	514	511	517	18 30	555	12 03	486	69	7 **
549	544	531	524	519	515	513	513	513	16 44	554	11 16	485	69	8
530	532	531	526	521	520	514	511	511	17 36	533	11 13	486	47	9
541	543	545	545	534	525	520	516	516	19 00	548	11 11	484	64	10
524	528	528	524	521	521	515	504	512	18 22	530	12 08	489	41	11
521	522	521	521	520	514	511	510	508	16 11	524	11 47	485	39	12
512	511	511	512	515	520	516	511	501	21 16	524	12 20	484	40	13
504	509	508	510	510	511	511	510	502	21 48	511	10 58	487	24	14
501	503	503	504	504	506	506	504	499	07 52	508	12 09	470	38	15 *
497	497	498	501	502	503	504	504	496	07 35	509	12 21	469	40	16 *
494	499	499	501	506	510	497	499	496	20 55	516	12 45	473	43	17
511	507	505	505	504	506	506	507	499	16 42	511	12 03	484	27	18
500	500	500	501	501	501	502	502	497	05 42	507	12 28	470	37	19 *
502	502	502	501	496	495	500	494	497	07 10	506	11 30	472	34	20
513	517	518	521	513	511	507	504	498	19 24	523	11 16	466	57	21
510	510	510	510	512	509	513	512	500	22 35	514	11 50	473	41	22
504	506	506	505	504	503	504	505	497	23 30	511	12 10	476	35	23
513	526	520	518	518	507	506	505	497	17 35	529	12 45	470	59	24
502	502	504	509	513	506	504	502	502	07 30	514	12 25	477	37	25 *
496	500	502	505	511	515	512	492	497	21 08	516	12 04	470	46	26
502	506	512	517	517	513	509	503	494	19 37	520	00 56	460	60	27
506	512	512	514	514	512	507	506	503	20 15	514	13 48	490	24	28
503	514	518	523	522	522	515	502	502	21 45	526	12 59	480	46	29
524	532	533	534	534	518	512	508	502	20 28	543	00 52	475	68	30 **
516	519	520	518	516	513	508	504	503	-	529	-	473	56.1	Mean
500	501	501	504	505	505	505	503	499	-	510	-	474	35.4	Mean *
541	544	557	540	531	520	506	502	508	-	570	-	447	123.4	Mean **

43000  $\gamma$  + Tabular Quantities (in  $\gamma$ )

OCTOBER

										h m	h m	$\gamma$		
544	535	538	528	522	506	501	507	503	16 23	552	03 56	461	91	1 **
566	556	538	519	515	513	514	507	509	16 59	584	06 07	463	121	2
520	518	514	509	508	511	512	510	511	16 58	523	00 39	499	24	3
556	579	602	559	564	546	526	489	521	18 22	669	23 19	477	192	4
533	541	526	518	516	515	498	494	510	17 44	546	22 51	480	66	5
695	795	655	620	564	504	385	394	525	17 56	†966	22 42	191	775	6 **
640	613	570	557	529	520	509	482	501	15 00	691	01 12	†13	704	7 **
543	551	546	551	536	526	513	503	516	19 17	559	01 12	454	105	8
550	551	546	542	530	526	498	499	514	15 13	560	03 33	472	88	9
525	527	531	531	532	531	521	510	515	21 03	534	02 58	489	45	10
525	526	527	526	527	526	519	517	514	21 13	532	00 37	494	38	11
514	514	516	517	518	521	516	506	512	21 40	526	12 52	491	35	12 *
506	508	509	510	510	510	510	509	507	08 25	515	13 40	493	22	13 *
507	507	507	509	509	509	510	510	505	07 57	514	12 42	489	25	14 *
517	539	546	561	546	533	527	518	513	19 17	576	12 04	485	91	15
513	515	513	513	512	515	518	519	511	22 34	522	11 44	491	31	16
517	516	516	518	517	517	516	516	512	00 02	518	11 53	496	22	17
534	540	553	547	534	524	525	525	515	18 57	578	03 48	491	87	18
528	525	523	525	525	528	519	516	518	21 25	533	12 46	500	33	19
534	530	525	521	517	519	523	520	517	16 22	536	12 00	501	35	20
522	521	520	519	520	521	511	511	514	21 11	529	12 10	500	29	21
512	512	512	511	509	508	507	506	507	07 50	515	12 14	483	32	22 *
508	507	508	509	509	507	507	507	504	20 52	513	11 59	485	28	23 *
538	571	563	560	541	530	523	518	516	17 50	595	11 23	486	109	24
662	666	675	604	595	548	538	507	543	17 15	759	10 11	485	274	25 **
563	553	545	534	520	525	509	507	520	15 02	604	02 25	457	147	26 **
559	566	555	542	549	526	509	519	523	16 55	581	02 10	485	96	27
570	574	549	539	534	524	519	517	523	17 21	588	06 00	483	105	28
559	554	548	528	529	520	508	510	520	16 32	572	01 30	484	88	29
550	540	534	537	535	525	523	509	522	16 46	555	23 57	490	65	30
534	540	542	528	524	513	520	512	517	17 53	558	00 47	489	69	31
547	551	544	535	529	521	511	506	515	-	578	-	459	118.5	Mean
509	510	510	511	511	511	510	508	507	-	517	-	488	28.4	Mean *
621	632	597	569	546	521	488	479	519	-	714	-	316	398.2	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	514	515	515	514	513	513	513	514	515	513	504	503	510	517	523	526	526
2	514	517	515	510	510	509	508	506	508	505	503	502	506	515	521	526	526
3	503	490	489	501	507	508	510	512	512	507	506	509	514	514	514	519	519
4 **	487	493	475	476	474	475	483	497	507	506	497	503	518	527	548	579	579
5	500	511	515	512	511	513	512	511	513	515	513	509	514	524	536	539	539
6	517	515	518	519	519	519	514	515	515	513	503	502	508	515	522	523	523
7 *	513	511	507	507	509	509	507	510	513	510	504	502	501	504	509	514	514
8 *	510	510	511	512	513	513	513	516	519	509	502	498	499	503	509	515	515
9 *	510	508	508	508	509	512	513	514	514	509	500	500	499	503	508	515	515
10	511	510	510	510	510	511	512	512	510	502	490	480	481	483	490	500	500
11	506	506	504	503	503	503	500	500	504	496	489	492	494	497	503	510	510
12	514	510	510	510	509	509	509	508	510	508	506	508	509	504	505	504	504
13 **	359	474	484	452	424	394	298	286	494	586	683	637	595	588	600	668	668
14 **	489	450	502	531	539	541	541	542	545	545	541	540	537	536	541	548	548
15 **	527	532	531	527	529	529	526	525	525	522	516	515	520	541	566	590	590
16 **	379	377	292	355	434	497	518	523	523	517	523	533	540	566	569	580	580
17	524	515	519	527	527	530	530	527	526	525	524	525	532	540	543	546	546
18 *	535	532	531	530	529	530	527	527	524	517	516	519	521	526	528	532	532
19 *	527	527	528	529	527	526	523	520	517	516	512	506	505	511	517	522	522
20 *	517	519	519	517	519	517	516	517	517	516	511	514	519	524	529	531	531
21	521	521	521	522	521	514	502	502	512	516	517	516	523	533	540	557	557
22	510	504	487	502	511	514	521	521	523	523	513	507	512	523	530	537	537
23	517	521	517	517	520	522	518	515	515	516	517	516	518	524	528	533	533
24	521	514	508	517	522	523	522	522	523	521	514	513	513	514	517	522	522
25	502	504	504	486	475	481	494	499	504	514	514	514	516	518	538	549	549
26	515	517	515	514	506	510	515	518	515	513	514	516	518	525	528	528	528
27	518	514	516	517	516	515	514	513	515	514	511	513	514	518	525	530	530
28	505	505	513	515	508	504	504	506	511	511	514	514	517	529	533	529	529
29	525	518	517	517	516	516	514	513	513	512	510	509	513	517	519	525	525
30	517	518	518	516	513	510	511	510	509	508	507	504	508	511	514	519	519
Mean	504	505	503	506	507	509	506	507	515	516	516	514	516	522	528	537	537
Mean *	519	518	517	517	517	518	517	517	517	512	507	505	505	509	514	520	520
Mean **	448	465	457	468	480	487	473	475	519	535	552	546	542	552	565	593	593
DECEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	531	531	526	462	458	457	485	486	497	504	509	515	526	546	563	590	590
2 **	520	523	524	526	528	523	528	529	527	524	526	525	529	547	543	544	544
3	523	524	524	522	518	518	518	517	515	513	512	513	515	517	523	529	529
4 *	522	520	522	523	523	522	520	516	513	510	504	507	509	517	524	530	530
5	520	519	519	520	519	517	514	513	510	509	508	509	511	516	520	524	524
6	517	517	517	517	515	514	512	508	509	509	508	514	514	518	526	531	531
7	528	526	524	522	518	517	517	515	514	509	505	505	504	509	515	520	520
8	526	525	515	507	503	498	499	504	506	506	514	514	514	514	515	524	524
9	516	516	516	513	510	511	514	515	515	517	514	515	514	520	530	536	536
10	512	514	514	511	513	514	515	516	515	513	510	513	512	510	514	520	520
11 *	514	514	514	514	514	514	514	514	515	513	510	510	510	514	515	525	525
12	517	515	515	514	512	513	514	514	515	514	513	513	509	509	515	524	524
13	510	505	506	506	508	506	508	509	515	516	522	524	521	520	523	526	526
14 *	518	516	515	511	511	511	510	510	511	510	514	510	505	508	513	513	513
15 **	510	509	502	499	498	498	501	506	510	516	521	519	527	544	579	593	593
16 **	496	489	476	471	473	463	470	482	499	503	505	509	514	524	524	524	524
17 *	530	529	528	526	524	520	518	515	508	509	512	510	509	513	519	521	521
18	521	523	519	515	508	507	499	501	506	509	509	514	519	530	541	556	556
19	512	514	516	519	517	517	515	512	510	510	514	511	511	518	520	524	524
20	516	517	516	513	511	511	511	511	509	508	508	510	515	520	526	527	527
21	506	495	499	509	515	516	517	517	516	517	515	510	511	517	521	534	534
22	511	507	512	515	515	510	511	515	511	511	517	516	517	520	524	524	524
23	507	509	512	514	516	516	514	514	512	510	512	512	513	521	525	522	522
24	515	515	512	512	513	513	514	515	514	512	512	511	515	522	527	519	519
25 *	516	511	510	511	511	513	515	515	513	515	517	513	514	518	518	514	514
26	507	508	510	509	508	503	503	501	502	507	510	511	512	516	512	508	508
27 **	513	512	510	507	504	503	500	495	491	495	500	501	510	521	534	577	577
28	518	513	515	518	522	521	520	522	522	529	531	536	533	532	536	548	548
29	522	516	511	508	512	515	512	516	518	521	522	524	527	529	532	536	536
30	523	521	521	521	519	518	518	517	519	519	519	519	519	524	529	524	524
31	521	521	519	519	517	510	512	512	511	513	519	516	512	519	524	538	538
Mean	517	515	514	511	511	509	510	511	511	512	513	514	515	521	527	533	533
Mean *	520	518	518	517	517	516	515	514	512	511	511	510	509	514	518	521	521
Mean **	514	513	508	493	492	489	497	500	505	508	512	514	521	536	549	566	566

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
NOVEMBER														
										h m	h m	$\gamma$		
525	523	521	519	521	519	518	515	516	15 09	529	11 14	502	27	1
528	525	520	520	523	518	510	510	514	16 00	529	10 54	501	28	2
523	522	521	522	529	527	519	512	512	20 23	532	02 15	487	45	3
555	553	558	541	532	528	525	510	514	15 13	597	02 37	463	134	4 **
537	531	527	524	521	518	517	517	518	15 40	541	00 23	497	44	5
524	523	522	521	523	520	515	514	517	20 27	527	11 07	499	28	6
518	519	517	517	514	513	512	510	510	17 35	518	12 12	500	18	7 *
517	515	515	514	514	515	518	517	512	08 27	519	11 26	497	22	8 *
519	519	519	519	519	519	515	512	511	21 19	520	12 13	498	22	9 *
508	510	512	511	512	512	510	509	504	07 26	515	11 46	478	37	10
514	513	513	512	512	512	514	519	505	23 15	524	10 41	483	41	11
502	510	615	704	604	568	521	536	529	19 25	785	22 35	488	295	12
631	589	622	566	568	560	514	525	525	10 49	791	00 46	† 84	707	13 **
544	549	550	535	534	531	534	530	532	17 42	563	01 12	427	136	14 **
606	613	595	556	556	542	505	463	540	16 56	640	23 42	445	195	15 **
556	548	546	546	540	534	534	537	503	15 13	591	02 58	86	505	16 **
552	547	546	537	533	537	538	534	533	16 20	560	01 42	511	49	17
532	532	530	528	527	526	526	526	527	00 06	536	10 14	515	21	18 *
526	527	524	523	521	520	519	519	521	03 50	530	12 17	501	29	19 *
532	531	528	526	523	522	521	521	521	15 58	534	10 31	510	24	20
591	597	603	583	557	542	523	511	535	18 29	643	07 05	485	158	21
545	547	548	543	536	535	521	514	522	17 24	553	02 20	483	70	22
534	533	533	531	532	529	528	525	523	16 18	537	10 55	514	23	23
523	524	524	525	525	525	529	514	520	23 03	535	24 00	500	35	24
558	555	545	549	545	539	528	517	519	16 55	571	04 19	474	97	25
529	528	527	526	535	534	530	525	521	21 01	540	04 18	503	37	26
539	555	555	539	538	533	524	519	524	18 11	573	10 06	509	64	27
526	525	524	524	525	525	525	525	517	13 56	537	00 52	493	44	28
524	521	518	521	525	525	524	517	518	00 03	527	11 25	507	20	29
522	521	525	525	529	530	529	527	517	22 07	543	11 26	504	39	30
538	537	540	537	532	529	522	518	519	-	565	-	465	99.8	Mean
522	522	521	520	519	519	518	517	516	-	525	-	502	22.4	Mean *
578	570	574	549	546	539	522	513	523	-	636	-	301	335.4	Mean **
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
DECEMBER														
										h m	h m	$\gamma$		
614	595	599	597	570	534	549	523	532	15 56	638	03 55	† 445	193	1 **
547	547	544	538	534	525	517	522	531	13 22	553	22 15	514	39	2 **
531	532	528	526	525	523	523	522	521	17 03	534	10 12	511	23	3
533	535	535	535	530	527	525	520	522	16 02	536	10 53	503	33	4 *
529	533	534	531	526	522	519	518	519	17 55	536	09 27	509	27	5
543	566	584	589	567	528	530	529	528	19 07	599	08 02	507	92	6
529	532	531	536	549	544	524	525	522	20 52	574	12 29	502	72	7
526	526	526	525	524	519	518	517	515	00 52	527	05 25	492	35	8
532	534	535	535	524	525	519	518	521	18 51	545	10 25	509	36	9
525	525	523	526	529	518	514	514	516	20 40	537	13 30	509	28	10
525	519	519	518	525	530	526	520	517	21 25	534	11 52	510	24	11 *
526	531	540	544	540	542	528	518	521	18 30	551	13 06	507	44	12
526	524	521	520	520	519	519	518	516	11 00	525	03 20	504	21	13
515	515	512	514	515	515	512	511	512	11 00	517	12 52	502	15	14 *
598	614	648	610	582	573	527	509	541	18 29	7671	24 00	485	186	15 **
526	526	528	528	527	529	536	534	507	22 40	536	05 46	454	82	16 **
523	523	520	520	525	523	524	521	520	00 11	532	12 11	508	24	17 *
565	556	557	550	536	527	526	518	525	16 15	567	07 13	496	71	18
529	528	521	518	519	527	512	511	517	21 11	538	11 45	508	30	19
527	527	528	540	525	510	506	504	517	19 48	551	22 56	500	51	20
538	533	533	532	538	529	516	517	519	15 52	546	01 51	487	59	21
528	529	528	526	527	524	519	510	518	17 27	531	01 36	503	28	22
522	525	527	526	522	518	516	515	517	13 48	530	00 40	503	27	23
520	531	529	522	521	523	527	511	518	17 58	538	23 12	507	31	24
513	515	516	518	517	518	517	515	515	20 05	522	01 34	507	15	25 *
510	512	513	514	513	512	514	514	510	13 25	518	07 14	499	19	26
556	573	583	574	559	527	522	521	525	19 11	619	08 43	489	130	27 **
542	539	539	537	528	527	522	522	528	15 08	551	01 19	510	41	28
551	542	538	533	531	529	525	526	525	16 05	556	03 17	507	49	29
524	529	534	530	529	529	523	523	523	18 28	543	06 29	515	28	30
536	538	537	530	529	530	529	528	523	18 07	551	05 37	508	43	31
536	537	539	537	532	527	522	519	521	-	552	-	500	51.5	Mean
522	521	520	521	522	523	521	517	517	-	528	-	506	22.2	Mean *
568	571	580	569	554	538	530	522	527	-	603	-	477	126.0	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE IV. - K-INDICES

Date	January			February			March			April			May		June			
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	Indices	Sum		
1	2001	1001	5	0212	3221	13	2332	3353	24	7766	7986	56	6554	4334	34	3544	3331	26
2	1111	2111	9	1202	3443	19	4333	3334	26	6544	4334	33	3323	3322	21	2110	2120	9
3	3201	2121	12	2223	3344	23	2333	3334	24	5564	3343	33	1222	1221	13	0011	1434	14
4	2133	3312	18	3423	3233	23	2222	4433	22	2332	3334	23	1001	1023	8	4554	4445	35
5	3433	3334	26	1024	3323	18	2231	3343	21	4441	4531	26	1221	2133	15	4434	3342	27
6	3222	2221	16	4432	2312	21	2322	2232	18	0122	3544	21	3334	3566	33	4334	3332	25
7	1122	2211	12	2221	0000	7	0012	1110	6	3320	2354	22	5434	5535	34	3323	3232	21
8	2201	1122	11	0022	3311	12	1133	2222	16	3332	2321	19	3566	5656	42	3433	3344	27
9	1210	1111	8	3101	1221	11	2223	2222	17	3423	1110	15	3333	3321	21	3332	3340	21
10	1244	4465	30	1222	1100	9	2244	2342	23	3322	3345	25	2222	2233	18	1211	1322	13
11	3233	5433	26	0012	1233	12	3435	4443	30	4433	3335	28	4553	4443	32	2111	0120	8
12	3122	3334	21	3211	2100	10	2221	3312	16	5443	2324	27	1333	4422	22	1121	2331	14
13	2211	1133	14	0021	2144	14	2121	1222	13	4442	2233	24	2222	2333	19	1211	2321	13
14	4433	3355	30	4322	3353	25	1122	2311	13	3233	2223	20	3232	2312	18	1123	4321	17
15	5432	3322	24	2001	3331	13	2011	3455	21	3533	3322	24	0223	3220	14	2132	2332	18
16	0210	1113	9	4223	5434	27	5542	3355	32	3222	3543	24	1122	5665	28	2210	0211	9
17	3211	4312	17	3232	3344	24	4333	2343	25	5333	3333	26	3243	4311	21	2100	2431	13
18	1143	3233	20	4433	2342	25	3332	2103	17	4233	2312	20	1211	1221	11	2223	3332	20
19	3101	2122	12	2133	2444	23	2123	3201	14	1211	2100	8	2222	1121	13	3332	3343	24
20	2323	3322	20	5332	2313	22	1121	1100	7	0110	1000	3	0311	1101	8	3321	2322	18
21	6334	4565	36	2334	3433	25	0112	3200	9	0001	1212	7	2212	3120	13	3432	3333	24
22	4234	2313	22	1123	2233	17	0111	2102	8	2011	1200	7	1202	3211	12	3322	1132	17
23	2332	3343	23	2222	2321	16	2001	1102	7	2322	1235	20	1222	5544	25	4222	2412	19
24	3323	3333	23	0211	1100	6	4222	2433	22	5534	4355	34	4453	3344	30	2222	3343	21
25	2212	2331	16	1001	1003	6	0111	2024	11	5444	4445	34	4322	3433	24	4223	3545	28
26	1212	2112	12	0002	2221	9	3112	2110	11	4232	2324	22	4332	2323	22	4422	3433	25
27	3312	2101	13	4434	3343	28	2212	1000	8	2121	2256	21	4322	2232	20	5543	3554	34
28	3001	2131	11	2112	2201	11	0123	2354	20	6554	4453	36	2222	2254	21	3345	4443	30
29	2232	3212	17	4232	3233	22	4333	2224	23	5544	3454	34	7443	5444	35	3432	2456	29
30	0001	0000	1				4222	3444	25	5444	7975	45	2233	3322	20	6432	3553	31
31	0001	1100	3				4446	5767	43				2322	3433	22			

Between June 28, 18.00 hours and June 29, 09.00 hours  
the K-indices were obtained from the insensitive record.

## FOR THE YEAR 1960

Date	July			August			September			October			November			December		
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	
1	3443	3342	26	2323	3223	20	0000	1101	3	5544	4346	35	2222	2224	18	5643	4556	38
2	3333	3121	19	2422	2334	22	0111	3345	18	4443	4553	32	3222	3134	20	3333	4344	27
3	2222	2333	19	2122	2211	13	5452	3321	25	2224	3312	19	3212	2144	19	2312	1200	11
4	3332	3432	23	3222	1111	13	3454	5557	38	2012	3565	24	5433	4544	32	1011	2321	11
5	3233	3232	21	1101	1100	5	5666	3555	41	4432	3435	28	3321	2000	11	1212	2232	15
6	4224	3211	19	0012	1322	11	4332	1134	21	5656	6888	52	0111	2032	10	1212	4354	22
7	0211	1311	10	3211	2310	13	3223	5343	25	8756	6655	48	3211	1000	8	2322	3166	25
8	1211	1201	9	1232	3433	21	4242	2330	19	5334	3344	29	0011	0002	4	3433	2111	18
9	0211	2001	7	3443	2332	24	3322	2223	19	3443	4355	31	2222	1002	11	1333	4343	24
10	2221	2332	17	3232	4331	21	2213	2332	18	4111	0123	13	0022	2210	9	2212	2243	18
11	3212	2333	19	2533	4432	26	4321	2333	21	4232	2123	19	2333	3233	22	0021	2333	14
12	3232	3212	18	4444	2322	25	3221	1321	15	0012	1124	11	3012	5577	30	3322	2344	23
13	3321	2432	20	2222	3221	16	4432	2134	23	0111	1102	7	8799	8676	60	4332	2010	15
14	1333	3645	28	2221	3443	21	5322	1200	15	1011	0000	3	5333	3454	30	0013	3211	11
15	3333	4556	32	4222	2320	17	0111	1111	7	1222	3343	20	4332	5556	33	3222	5555	29
16	7543	2443	32	2111	5555	25	1001	2110	6	2221	2002	11	8844	5433	39	4543	3123	25
17	4332	2333	23	6663	4655	41	0101	2243	13	2112	2122	13	3222	2342	20	0121	2122	11
18	3222	3321	18	3233	1221	17	4323	2112	18	3321	3354	24	3201	1000	7	3333	3343	25
19	0244	3454	26	2123	3445	24	1011	2000	5	2312	2224	18	0212	3102	11	3323	3334	24
20	4232	4444	27	2453	3333	26	0010	1123	8	0221	1223	13	2212	3211	14	4333	2254	26
21	2222	3322	18	4344	3343	28	3012	2233	16	2111	1124	13	1353	4454	29	4222	3455	27
22	3122	3222	17	4212	2242	19	3110	2233	15	0000	0000	0	5333	2224	24	3333	2334	24
23	5221	1111	14	2221	1330	14	2333	1124	19	0000	1122	6	2231	1022	13	3222	3122	17
24	3122	3322	18	2111	1210	9	4343	2341	24	0011	4542	17	4221	2235	21	2212	3434	21
25	0010	0101	3	0000	0220	4	1001	1132	9	2244	4764	33	4344	4544	32	3211	1132	14
26	1110	2224	13	0001	1122	7	3021	1233	15	5434	4454	33	3322	2133	19	4332	2222	20
27	2220	2210	11	3222	2343	21	4332	1122	18	4324	3455	30	3322	3454	26	2344	4665	34
28	0212	3222	14	2331	3310	16	0112	1201	8	4534	3553	32	5432	3112	21	4234	3342	25
29	3432	3543	27	5543	4435	33	1021	4224	16	4334	4444	30	3122	1123	15	4323	2422	22
30	5424	4333	28	5553	3432	30	4332	3354	27	4334	3445	30	2311	2245	20	2331	2443	22
31	5443	3423	28	3332	2223	20				4333	3553	29				1232	3332	19

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

All Days													
DECLINATION WEST (Unit 0.01)													
Month and Season, 1960	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-186	-168	-170	-179	-97	-74	-64	-66	-82	-80	+12	+152	+305
February	-253	-203	-129	-147	-166	-139	-146	-156	-199	-219	-84	+152	+345
March	-205	-206	-265	-272	-238	-231	-221	-297	-397	-366	-189	+139	+517
April	-395	-318	-429	-340	-226	-256	-323	-427	-565	-441	-136	+212	+557
May	-53	-129	-187	-183	-198	-336	-495	-561	-563	-409	-112	+198	+519
June	-112	-168	-158	-269	-380	-503	-582	-658	-600	-443	-157	+155	+447
July	-140	-183	-183	-230	-270	-335	-447	-512	-519	-389	-159	+153	+423
August	-89	-224	-232	-191	-245	-309	-475	-573	-513	-320	+11	+334	+608
September	-315	-308	-320	-309	-250	-254	-293	-351	-378	-276	+45	+374	+659
October	-406	-206	-215	-247	-123	-60	+17	+17	-164	-122	+93	+368	+601
November	-217	-159	-24	-16	+13	-5	+95	+49	-151	-198	-112	+178	+320
December	-232	-214	-139	-119	-66	+37	+49	+93	+73	+94	+168	+244	+350
Year	-217	-207	-204	-209	-187	-205	-240	-287	-338	-264	-52	+222	+471
Winter	-222	-186	-115	-115	-79	-45	-17	-20	-90	-101	-4	+181	+330
Equinox	-330	-259	-307	-292	-209	-200	-205	-265	-376	-301	-47	+273	+583
Summer	-99	-176	-190	-218	-273	-371	-500	-576	-549	-390	-104	+210	+499
INCLINATION (Unit 0.01)													
January	+2	-20	-20	-30	-48	-75	-92	-90	-66	-20	+27	+65	+58
February	-8	-18	-19	-36	-48	-59	-77	-83	-59	-24	+5	+32	+34
March	-45	-49	-44	-44	-58	-71	-93	-77	-28	+38	+90	+106	+89
April	-63	-39	-43	-64	-71	-69	-52	-10	+29	+78	+122	+147	+114
May	-50	-34	-34	-8	-10	-16	+6	+28	+74	+97	+83	+67	+66
June	-53	-50	-80	-83	-73	-39	+6	+62	+110	+141	+145	+150	+133
July	-77	-76	-72	-71	-60	-52	-3	+51	+98	+126	+146	+146	+123
August	-118	-93	-100	-92	-96	-76	-23	+74	+141	+159	+132	+115	+75
September	-86	-82	-77	-90	-85	-93	-43	+30	+103	+154	+161	+137	+97
October	-74	-123	-126	-133	-146	-137	-119	-83	-19	+65	+143	+152	+135
November	-3	-44	-43	-70	-106	-103	-80	-10	+4	+28	+53	+65	+81
December	-34	-30	-44	-86	-110	-135	-130	-108	-80	-29	+4	+8	+30
Year	-51	-55	-59	-67	-76	-77	-58	-18	+26	+68	+93	+99	+86
Winter	-11	-28	-31	-55	-78	-93	-95	-73	-50	-11	+22	+43	+51
Equinox	-67	-73	-73	-83	-90	-93	-77	-35	+21	+84	+129	+135	+109
Summer	-75	-63	-71	-63	-60	-46	-3	+54	+106	+131	+127	+119	+99
HORIZONTAL INTENSITY (Unit 0.1γ)													
January	+6	+29	+21	+34	+60	+101	+127	+123	+82	+10	-66	-130	-125
February	+22	+34	+24	+46	+64	+79	+104	+110	+77	+18	-47	-105	-108
March	+69	+67	+56	+56	+75	+92	+127	+113	+38	-78	-183	-236	-218
April	+29	-23	+1	+16	+30	+52	+45	-8	-69	-164	-263	-320	-260
May	+76	+40	+42	+9	+22	+37	+7	-37	-127	-196	-213	-218	-212
June	+92	+78	+104	+95	+84	+41	-22	-103	-185	-255	-292	-321	-288
July	+104	+84	+74	+80	+78	+79	+8	-76	-160	-227	-284	-310	-272
August	+171	+122	+125	+105	+123	+97	+26	-112	-227	-281	-273	-271	-210
September	+114	+99	+96	+115	+107	+126	+59	-44	-161	-259	-303	-286	-221
October	+54	+103	+125	+126	+145	+142	+126	+89	+9	-129	-261	-277	-237
November	-63	+6	-5	+47	+107	+110	+64	-39	-25	-55	-94	-120	-137
December	+34	+22	+39	+89	+123	+154	+151	+120	+80	+7	-37	-41	-68
Year	+59	+55	+59	+68	+85	+93	+69	+11	-56	-134	-193	-220	-196
Winter	0	+23	+20	+54	+89	+111	+111	+79	+53	-5	-61	-99	-109
Equinox	+67	+61	+69	+78	+89	+103	+89	+37	-46	-157	-253	-280	-234
Summer	+111	+81	+86	+72	+77	+63	+5	-82	-175	-240	-265	-280	-245

DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

All Days

DECLINATION WEST (Unit 0.'01)

											Universal Time.	Hour commencing	Range	Month and Season, 1960
13	14	15	16	17	18	19	20	21	22	23				
+400	+349	+278	+228	+140	+120	+ 17	-131	-221	-244	-241		6.44	January	
+446	+493	+438	+299	+201	+135	+ 48	- 76	-165	-255	-232		7.48	February	
+676	+716	+632	+492	+257	+152	+ 11	-109	-119	-228	-247		11.13	March	
+815	+819	+772	+675	+434	+117	+ 11	+ 30	-130	-238	-227		13.84	April	
+654	+660	+557	+466	+257	+ 63	+ 7	- 12	- 40	- 47	- 68		12.23	May	
+621	+643	+613	+502	+382	+276	+152	+102	+ 69	+ 56	+ 10		13.01	June	
+596	+670	+593	+465	+300	+169	+ 66	+ 31	+ 16	- 24	- 80		11.89	July	
+729	+706	+573	+369	+143	+ 13	- 14	- 42	- 67	-128	- 65		13.02	August	
+751	+726	+503	+328	+201	+ 41	+ 8	- 28	-113	-169	-268		11.29	September	
+678	+583	+434	+246	+ 50	-157	- 70	-286	-331	-312	-378		10.84	October	
+415	+398	+295	+183	+ 79	-100	- 74	-140	-248	-284	-291		7.06	November	
+307	+301	+199	+185	+151	+ 14	-185	-287	-343	-366	-315		7.16	December	
+591	+589	+491	+370	+216	+ 70	- 2	- 79	-141	-187	-200		10.45	Year	
+392	+385	+303	+224	+143	+ 42	- 49	-159	-244	-287	-270		7.03	Winter	
+730	+711	+585	+435	+235	+ 38	- 10	- 98	-173	-237	-280		11.77	Equinox	
+650	+670	+584	+451	+271	+130	+ 53	+ 20	- 5	- 36	- 51		12.54	Summer	

INCLINATION (Unit 0.'01)

+ 54	+ 63	+ 66	+ 74	+ 49	+ 11	+ 2	- 12	- 10	+ 5	+ 2		1.66	January
+ 21	+ 30	+ 59	+ 71	+ 57	+ 55	+ 36	+ 25	+ 18	+ 5	- 12		1.54	February
+ 77	+ 56	+ 39	+ 31	+ 69	+ 30	+ 19	- 1	- 19	- 32	- 76		1.99	March
+ 56	+ 33	+ 12	- 43	-102	+ 10	+ 20	0	+ 4	- 7	- 62		2.49	April
+ 79	+ 69	+ 34	+ 4	- 15	- 60	- 65	- 83	- 87	- 72	- 76		1.84	May
+127	+110	+ 41	- 2	- 74	-101	-116	-108	- 92	- 92	- 71		2.66	June
+105	+ 93	+ 49	+ 2	- 33	- 75	-105	- 89	- 79	- 72	- 74		2.51	July
+ 69	+ 59	+ 52	+ 18	- 7	- 16	- 35	- 43	- 53	- 73	- 77		2.77	August
+ 85	+ 64	+ 79	+ 24	+ 2	- 26	- 48	- 64	- 81	- 73	- 84		2.54	September
+ 93	+115	+ 98	+124	+100	+ 96	+ 43	+ 2	- 33	- 77	- 89		2.98	October
+ 69	+ 63	+ 72	+ 55	+ 27	+ 15	- 3	+ 2	- 10	- 26	- 31		1.87	November
+ 58	+ 84	+114	+128	+128	+108	+ 88	+ 43	+ 20	- 10	- 16		2.63	December
+ 74	+ 70	+ 60	+ 41	+ 17	+ 4	- 14	- 27	- 35	- 44	- 55		2.29	Year
+ 51	+ 60	+ 78	+ 82	+ 65	+ 47	+ 31	+ 15	+ 5	- 7	- 14		1.93	Winter
+ 78	+ 67	+ 57	+ 34	+ 17	+ 27	+ 9	- 16	- 32	- 47	- 78		2.50	Equinox
+ 95	+ 83	+ 44	+ 5	- 32	- 63	- 80	- 81	- 78	- 77	- 75		2.45	Summer

HORIZONTAL INTENSITY (Unit 0.1γ)

											Y		
-108	- 96	- 88	- 88	- 40	+ 15	+ 32	+ 51	+ 39	+ 11	+ 10		25.7	January
- 77	- 72	- 88	- 83	- 48	- 41	- 7	+ 11	+ 14	+ 28	+ 36		21.8	February
-182	-121	- 52	+ 1	- 28	+ 25	+ 51	+ 65	+ 73	+ 75	+111		36.3	March
-137	- 33	+ 55	+191	+338	+144	+112	+ 85	+ 43	+ 45	+ 88		65.8	April
-188	-126	- 14	+ 57	+106	+180	+172	+180	+163	+125	+123		39.8	May
-251	-185	- 45	+ 51	+189	+240	+264	+239	+192	+163	+123		58.5	June
-224	-170	- 56	+ 55	+139	+215	+251	+203	+160	+130	+117		56.1	July
-171	-111	- 53	+ 40	+111	+131	+143	+132	+128	+137	+129		45.2	August
-174	-101	- 84	+ 22	+ 64	+115	+138	+151	+162	+132	+131		46.5	September
-140	-122	- 47	- 49	+ 7	- 20	+ 23	+ 57	+ 76	+ 98	+ 94		42.2	October
- 93	- 56	- 31	- 2	+ 35	+ 67	+ 80	+ 53	+ 55	+ 48	+ 39		24.7	November
- 85	-100	-117	-127	-120	- 82	- 62	- 13	- 4	+ 22	+ 15		28.1	December
-153	-108	- 52	+ 6	+ 63	+ 82	+100	+101	+ 92	+ 85	+ 85		40.9	Year
- 91	- 81	- 81	- 75	- 43	- 10	+ 11	+ 25	+ 26	+ 27	+ 25		25.1	Winter
-158	- 94	- 32	+ 41	+ 95	+ 66	+ 81	+ 89	+ 89	+ 87	+106		47.7	Equinox
-209	-148	- 42	+ 51	+136	+191	+207	+189	+161	+139	+123		49.9	Summer

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL

All Days

## NORTH COMPONENT (Unit 0.1γ)

Month and Season, 1960	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 23	+ 44	+ 37	+ 50	+ 68	+106	+131	+127	+ 89	+ 17	- 66	-142	-152
February	+ 46	+ 53	+ 36	+ 59	+ 79	+ 91	+116	+123	+ 95	+ 38	- 38	-118	-139
March	+ 87	+ 85	+ 80	+ 81	+ 96	+112	+146	+139	+ 75	- 42	-162	-246	-263
April	+ 66	+ 7	+ 41	+ 48	+ 51	+ 75	+ 75	+ 32	- 15	-120	-246	-335	-309
May	+ 80	+ 52	+ 59	+ 26	+ 40	+ 68	+ 54	+ 16	- 72	-154	-199	-233	-258
June	+101	+ 93	+117	+119	+119	+ 88	+ 33	- 39	-126	-209	-273	-331	-326
July	+116	+100	+ 90	+100	+102	+109	+ 50	- 27	-109	-187	-265	-320	-308
August	+177	+141	+145	+121	+144	+125	+ 70	- 56	-175	-247	-270	-298	-264
September	+142	+127	+125	+142	+129	+148	+ 86	- 10	-123	-229	-303	-317	-280
October	+ 91	+121	+143	+147	+154	+146	+123	+ 86	+ 24	-116	-266	-308	-290
November	- 42	+ 21	- 3	+ 48	+104	+109	+ 54	- 43	- 10	- 36	- 82	-135	-165
December	+ 55	+ 42	+ 52	+ 99	+127	+148	+144	+109	+ 72	- 2	- 52	- 63	-100
Year	+ 79	+ 74	+ 77	+ 87	+101	+110	+ 90	+ 38	- 23	-107	-185	-237	-238
Winter	+ 21	+ 40	+ 31	+ 64	+ 95	+113	+111	+ 79	+ 61	+ 4	- 59	-115	-139
Equinox	+ 97	+ 85	+ 97	+105	+107	+120	+107	+ 62	- 10	-127	-244	-301	-285
Summer	+119	+ 97	+103	+ 91	+101	+ 97	+ 52	- 27	-121	-199	-252	-295	-289

## WEST COMPONENT (Unit 0.1γ)

January	- 99	- 85	- 87	- 90	- 42	- 22	- 12	- 14	- 30	- 41	- 5	+ 59	+142
February	-132	-103	- 65	- 71	- 78	- 61	- 60	- 65	- 93	-114	- 53	+ 63	+166
March	- 98	- 99	-132	-136	-115	-108	- 96	-140	-206	-210	-133	+ 34	+239
April	-207	-174	-230	-179	-116	-128	-165	-230	-315	-265	-118	+ 58	+254
May	- 15	- 62	- 93	- 97	-102	-174	-264	-307	-324	-253	- 97	+ 68	+242
June	- 44	- 77	- 67	-128	-189	-263	-316	-371	-354	-282	-135	+ 28	+190
July	- 57	- 84	- 85	-109	-131	-166	-238	-288	-306	-248	-134	+ 28	+178
August	- 18	- 99	-103	- 84	-110	-149	-250	-327	-314	-220	- 41	+132	+290
September	-149	-148	-155	-146	-115	-114	-147	-196	-230	-193	- 28	+151	+315
October	-208	- 93	- 94	-111	- 41	- 8	+ 31	+ 25	- 86	- 88	+ 5	+149	+281
November	-127	- 84	- 14	0	+ 25	+ 16	+ 62	+ 20	- 85	-116	- 76	+ 75	+148
December	-118	-111	- 68	- 48	- 14	+ 46	+ 52	+ 71	+ 53	+ 52	+ 84	+124	+176
Year	-106	-102	- 99	-100	- 86	- 94	-117	-152	-191	-165	- 61	+ 81	+218
Winter	-119	- 96	- 59	- 52	- 27	- 5	+ 11	+ 3	- 39	- 55	- 13	+ 80	+158
Equinox	-165	-129	-153	-143	- 97	- 89	- 94	-135	-209	-189	- 69	+ 98	+272
Summer	- 33	- 81	- 87	-105	-133	-188	-267	-323	-325	-251	-102	+ 64	+225

## VERTICAL COMPONENT (Unit 0.1γ)

January	+ 21	- 3	- 22	- 25	- 29	- 26	- 26	- 28	- 38	- 45	- 59	- 75	- 89
February	+ 23	+ 15	- 11	- 20	- 17	- 23	- 28	- 34	- 25	- 43	- 92	-132	-133
March	+ 2	- 15	- 23	- 22	- 28	- 35	- 29	- 7	- 10	- 48	-111	-179	-198
April	-153	-190	-147	-187	-176	-121	- 76	- 55	- 58	-108	-185	-232	-208
May	+ 1	- 26	- 22	- 6	+ 16	+ 31	+ 36	+ 11	- 38	-118	-206	-274	-264
June	+ 30	+ 8	- 37	- 69	- 60	- 39	- 31	- 22	- 47	-100	-174	-225	-206
July	- 25	- 68	- 78	- 60	- 29	+ 1	+ 7	+ 1	- 29	- 89	-153	-210	-203
August	- 12	- 39	- 57	- 75	- 49	- 41	- 18	- 2	- 38	-100	-173	-228	-227
September	- 35	- 57	- 46	- 46	- 47	- 31	- 14	+ 3	- 15	- 67	-144	-188	-175
October	-133	-189	-148	-170	-173	-146	-121	- 84	- 47	- 73	-108	-115	- 79
November	-157	-140	-160	-135	-119	-104	-130	-126	- 43	- 31	- 35	- 53	- 35
December	- 39	- 53	- 64	- 92	- 99	-113	-103	- 99	- 94	- 86	- 73	- 68	- 54
Year	- 40	- 63	- 68	- 76	- 67	- 54	- 44	- 37	- 40	- 76	-126	-165	-156
Winter	- 38	- 45	- 64	- 68	- 66	- 67	- 72	- 72	- 50	- 51	- 65	- 82	- 78
Equinox	- 80	-113	- 91	-106	-106	- 83	- 60	- 36	- 33	- 74	-137	-179	-165
Summer	- 1	- 31	- 49	- 53	- 31	- 12	- 1	- 3	- 38	-102	-177	-234	-225

## COMPONENTS OF MAGNETIC INTENSITY

All Days

## NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing											Range	Month and Season, 1960
13	14	15	16	17	18	19	20	21	22	23	γ	
-144	-127	-113	-108	- 53	+ 3	+ 30	+ 63	+ 59	+ 34	+ 33	28.3	January
-118	-117	-128	-110	- 66	- 53	- 11	+ 18	+ 29	+ 52	+ 57	26.2	February
-243	-187	-111	- 45	- 52	+ 10	+ 49	+ 74	+ 83	+ 95	+133	40.9	March
-212	-110	- 19	+124	<b>+292</b>	+131	+109	+ 81	+ 55	+ 67	+108	62.7	April
-247	-186	- 66	+ 12	+ 80	+171	+169	<b>+178</b>	+164	+128	+128	43.6	May
-306	-243	-102	+ 3	+150	+210	<b>+246</b>	+226	+183	+155	+120	57.7	June
-277	-231	-111	+ 10	+109	+196	<b>+241</b>	+197	+156	+130	+123	56.1	July
-237	-176	-106	+ 5	+ 96	+128	+142	+134	+132	+147	+133	47.5	August
-242	-168	-130	- 9	+ 44	+109	+135	+151	<b>+170</b>	+146	+154	48.7	September
-202	-175	- 87	- 71	+ 2	- 5	+ 29	+ 83	+106	+126	+128	46.2	October
-131	- 93	- 58	- 19	+ 27	+ 75	+ 86	+ 65	+ 76	+ 74	+ 66	27.4	November
-113	-127	-134	<b>-143</b>	-132	- 82	- 44	+ 14	+ 28	+ 56	+ 44	29.1	December
-206	-162	- 97	- 29	+ 41	+ 74	+ 98	+107	+103	+101	+102	42.9	Year
-127	-116	-108	- 95	- 56	- 14	+ 15	+ 40	+ 48	+ 54	+ 50	27.7	Winter
-225	-160	- 87	0	+ 71	+ 61	+ 81	+ 97	+103	+109	<b>+131</b>	49.6	Equinox
-267	-209	- 96	+ 7	+109	+176	<b>+199</b>	+184	+159	+140	+126	51.2	Summer

## WEST COMPONENT (Unit 0.1γ)

											γ	
<b>+196</b>	+170	+134	+107	+ 68	+ 67	+ 15	- 61	-112	<b>-129</b>	-127	32.5	January
<b>+226</b>	<b>+252</b>	+220	+146	+ 99	+ 65	+ 25	- 39	- 86	<b>-132</b>	-118	38.4	February
<b>+331</b>	<b>+363</b>	+330	+264	+133	+ 86	+ 15	- 47	- 51	-109	-113	57.3	March
<b>+413</b>	<b>+433</b>	+423	+395	+291	+ 88	+ 25	+ 31	- 62	-120	-106	74.8	April
<b>+318</b>	<b>+332</b>	+296	+260	+156	+ 65	+ 34	+ 25	+ 7	- 4	- 15	65.6	May
<b>+289</b>	<b>+313</b>	<b>+321</b>	+278	+237	+189	+127	+ 96	+ 70	+ 58	+ 27	69.2	June
<b>+281</b>	<b>+330</b>	+308	+259	+185	+128	+ 79	+ 52	+ 36	+ 10	- 23	63.6	July
<b>+361</b>	+359	+298	+205	+ 96	+ 30	+ 17	0	- 14	- 45	- 13	68.8	August
<b>+372</b>	<b>+372</b>	+255	+180	+119	+ 42	+ 28	+ 11	- 33	- 68	-121	60.2	September
<b>+339</b>	+291	+224	+123	+ 28	- 88	- 34	-143	-164	-150	-186	54.7	October
<b>+206</b>	+204	+153	+ 98	+ 48	- 42	- 26	- 66	-123	-144	<b>-149</b>	35.5	November
+150	+144	+ 86	+ 77	+ 60	- 7	-110	-156	-185	<b>-192</b>	-166	36.8	December
<b>+290</b>	<b>+297</b>	+254	+199	+127	+ 52	+ 16	- 25	- 60	- 85	- 93	54.8	Year
<b>+195</b>	+193	+148	+107	+ 69	+ 21	- 24	- 81	-127	<b>-149</b>	-140	35.8	Winter
<b>+364</b>	<b>+365</b>	+308	+241	+143	+ 32	+ 9	- 37	- 77	-112	-131	61.7	Equinox
<b>+312</b>	<b>+333</b>	+306	+251	+169	+103	+ 64	+ 43	+ 25	+ 5	- 6	66.8	Summer

## VERTICAL COMPONENT (Unit 0.1γ)

											γ	
- 63	- 3	+ 26	+ 55	+ 77	+ 72	+ 83	+ 75	+ 55	+ 42	+ 31	17.2	January
-107	- 62	+ 1	+ 56	+ 86	+ 97	+108	<b>+114</b>	+ 95	+ 81	+ 41	24.7	February
-156	- 86	+ 14	+111	+177	+161	<b>+183</b>	+147	+104	+ 63	- 6	38.1	March
-122	+ 38	+169	+295	<b>+431</b>	+369	+330	+197	+115	+ 79	- 13	66.3	April
-163	- 51	+ 85	+148	+193	<b>+209</b>	+172	+128	+ 74	+ 39	+ 20	48.3	May
-141	- 46	+ 38	+110	+180	+207	<b>+211</b>	+178	+124	+ 60	+ 40	43.6	June
-155	- 70	+ 41	+136	+208	<b>+237</b>	+217	+162	+ 97	+ 50	+ 14	44.7	July
-156	- 54	+ 59	+156	+235	<b>+250</b>	+209	+158	+114	+ 65	+ 32	47.8	August
-108	- 10	+ 80	+135	+155	<b>+175</b>	+152	+127	+ 96	+ 54	+ 13	36.3	September
0	+117	+233	+318	<b>+365</b>	+288	+204	+141	+ 61	- 40	- 92	55.4	October
+ 24	+ 91	+179	+187	+175	<b>+208</b>	+176	+131	+ 93	+ 22	- 16	36.8	November
+ 5	+ 62	+125	+152	+166	<b>+184</b>	+162	+119	+ 60	+ 15	- 21	29.7	December
- 95	- 6	+ 87	+155	+204	<b>+205</b>	+184	+140	+ 91	+ 44	+ 4	40.7	Year
- 35	+ 22	+ 83	+113	+126	<b>+140</b>	+132	+110	+ 76	+ 40	+ 9	27.1	Winter
- 97	+ 15	+124	+215	<b>+282</b>	<b>+248</b>	+217	+153	+ 94	+ 39	- 25	49.0	Equinox
-154	- 55	+ 56	+137	+204	<b>+226</b>	+202	+157	+102	+ 53	+ 27	46.1	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

Month and Season, 1960	International Quiet Days												
	DECLINATION WEST (Unit 0'.01)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-133	-71	-49	-33	-1	-17	-57	-97	-179	-251	-185	-25	+171
February	-136	-158	-60	-40	-54	-84	-124	-156	-222	-274	-180	+50	+254
March	-92	-82	-90	-126	-108	-132	-174	-300	-474	-474	-304	+54	+414
April	-122	-120	-104	-74	-146	-270	-390	-566	-614	-476	-246	+78	+408
May	+50	+42	+10	-66	-136	-334	-506	-612	-598	-474	-224	+90	+370
June	+73	+27	+21	-81	-215	-437	-585	-671	-703	-559	-255	+71	+327
July	-59	-23	-49	-169	-289	-467	-645	-669	-621	-465	-209	+123	+417
August	-48	-36	-136	-220	-266	-344	-542	-646	-640	-384	+20	+370	+582
September	-63	-97	-141	-169	-205	-253	-341	-465	-577	-467	-151	+211	+487
October	-123	-101	-97	-93	-109	-135	-179	-285	-447	-505	-295	+61	+379
November	-154	-72	-22	-54	-6	-50	-62	-138	-238	-296	-110	+72	+272
December	-122	-58	-36	-60	-32	-26	-20	-24	-22	-28	+26	+108	+218
Year	-77	-62	-63	-99	-131	-212	-302	-386	-445	-388	-176	+105	+358
Winter	-136	-90	-42	-47	-23	-44	-66	-104	-165	-212	-112	+51	+229
Equinox	-100	-100	-108	-115	-142	-197	-271	-404	-528	-481	-249	+101	+422
Summer	+4	+3	-39	-134	-227	-395	-569	-649	-641	-471	-167	+163	+424
	INCLINATION (Unit 0'.01)												
January	-3	-1	+2	-2	-19	-43	-75	-74	-67	-25	+33	+50	+40
February	+25	+25	+15	-8	-22	-30	-57	-66	-23	+21	+44	+44	+37
March	-33	-11	-13	-18	-27	-35	-59	-29	+12	+71	+127	+126	+89
April	-28	-16	-13	-6	-33	-27	-25	-1	+43	+85	+97	+104	+84
May	-19	-6	+5	+15	+11	+9	+35	+63	+78	+91	+85	+68	+57
June	-35	-25	-26	-12	-19	-1	+43	+98	+139	+147	+121	+77	+49
July	+11	+5	+5	+2	-10	-15	+31	+89	+132	+127	+113	+83	+42
August	-56	-55	-53	-42	-27	-19	+33	+88	+141	+178	+125	+73	+29
September	-31	-22	-13	-11	-20	-10	-1	+54	+112	+159	+148	+109	+59
October	-17	-10	-11	-18	-22	-14	-34	-18	+33	+110	+147	+137	+108
November	+15	+29	0	-6	-9	-47	-63	-59	-29	+18	+32	+51	+65
December	+22	+16	+2	-14	-27	-46	-41	-68	-67	-52	-22	-26	-11
Year	-12	-6	-8	-10	-19	-23	-18	+6	+42	+77	+87	+75	+54
Winter	+15	+17	+5	-7	-19	-41	-59	-67	-47	-9	+22	+30	+33
Equinox	-27	-15	-13	-13	-25	-21	-30	+1	+50	+106	+130	+119	+85
Summer	-25	-20	-17	-9	-11	-7	+35	+85	+123	+136	+111	+75	+44
	HORIZONTAL INTENSITY (Unit 0.1γ)												
January	+11	+7	+5	+15	+43	+81	+123	+119	+105	+31	-71	-121	-129
February	-12	-12	-8	+20	+36	+48	+86	+96	+40	-26	-82	-106	-96
March	+62	+24	+28	+38	+48	+60	+96	+62	+4	-100	-214	-244	-202
April	+78	+54	+42	+26	+66	+64	+66	+26	-52	-142	-198	-246	-230
May	+51	+23	+5	-3	+13	+29	-17	-77	-125	-169	-197	-205	-183
June	+70	+54	+56	+42	+64	+48	-22	-114	-198	-246	-254	-218	-184
July	+7	+21	+27	+37	+61	+77	-5	-103	-189	-227	-247	-233	-179
August	+100	+92	+92	+78	+66	+58	-14	-102	-206	-298	-260	-212	-152
September	+78	+64	+52	+44	+60	+44	+32	-44	-148	-250	-280	-260	-190
October	+38	+30	+34	+44	+54	+42	+70	+54	-20	-158	-256	-278	-238
November	-10	-38	+4	+14	+18	+78	+96	+94	+48	-44	-88	-124	-146
December	-20	-20	0	+20	+38	+64	+54	+88	+78	+54	+8	+8	-16
Year	+38	+25	+28	+31	+47	+58	+47	+8	-55	-131	-178	-187	-162
Winter	-8	-16	0	+17	+34	+68	+90	+99	+68	+4	-58	-86	-97
Equinox	+64	+43	+39	+38	+57	+53	+66	+25	-54	-163	-237	-257	-215
Summer	+57	+47	+45	+39	+51	+53	-15	-99	-179	-235	-239	-217	-175

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## International Quiet Days

## DECLINATION WEST (Unit 0'.01)

Universal Time. Hour commencing											Range	Month and Season, 1960
13	14	15	16	17	18	19	20	21	22	23		
+293	+283	+251	+219	+177	+ 93	+ 29	- 37	- 95	-141	-151	5.44	January
+330	+352	+268	+190	+124	+ 58	+ 6	- 20	- 28	- 68	- 38	6.26	February
+584	+586	+460	+256	+116	+ 56	+ 42	- 2	- 26	-118	- 72	10.60	March
+614	+574	+452	+332	+178	+ 92	+ 92	+100	+ 90	+ 78	+ 38	12.28	April
+512	+500	+430	+268	+142	+ 68	+ 84	+114	+ 68	+ 94	+114	11.24	May
+439	+551	+533	+431	+287	+227	+165	+ 99	+ 63	+ 93	+ 87	12.54	June
+641	+721	+611	+439	+273	+151	+ 71	+ 49	+ 57	+ 79	+ 21	13.90	July
+676	+644	+484	+264	+104	+ 58	+ 60	+ 24	+ 22	- 4	- 36	13.22	August
+541	+491	+347	+255	+205	+191	+145	+ 55	+ 31	- 15	- 7	11.18	September
+541	+531	+395	+251	+201	+155	+101	+ 29	- 49	-141	- 81	10.46	October
+362	+310	+230	+164	+108	+ 50	+ 8	- 34	- 96	-126	-122	6.58	November
+246	+214	+130	+ 86	+ 86	+ 46	- 12	-130	-198	-188	-198	4.44	December
+482	+480	+383	+263	+167	+104	+ 66	+ 21	- 13	- 38	- 37	9.85	Year
+308	+290	+220	+165	+124	+ 62	+ 8	- 55	-104	-131	-127	5.68	Winter
+570	+545	+413	+273	+175	+123	+ 95	+ 45	+ 11	- 49	- 31	11.13	Equinox
+567	+604	+515	+351	+201	+126	+ 95	+ 72	+ 53	+ 65	+ 47	12.73	Summer

## INCLINATION (Unit 0'.01)

+ 27	+ 34	+ 45	+ 52	+ 33	+ 20	+ 11	- 7	- 13	- 6	- 6	1.27	January
+ 29	+ 34	+ 40	+ 41	+ 14	- 15	- 27	- 27	- 22	- 37	- 28	1.10	February
+ 70	+ 54	+ 28	+ 15	- 15	- 37	- 49	- 54	- 62	- 77	- 79	2.06	March
+ 69	+ 58	+ 33	- 7	- 37	- 58	- 68	- 62	- 60	- 62	- 67	1.72	April
+ 42	+ 22	- 17	- 51	- 55	- 83	- 88	- 75	- 57	- 58	- 66	1.79	May
+ 48	+ 40	+ 13	- 33	- 76	-127	- 99	- 84	- 73	- 78	- 86	2.74	June
+ 37	+ 41	+ 16	- 16	- 59	- 96	-116	-122	-112	-102	- 85	2.54	July
+ 9	0	+ 15	+ 13	- 17	- 51	- 93	- 87	- 69	- 74	- 63	2.71	August
+ 28	+ 11	- 1	- 18	- 41	- 82	- 96	- 88	- 83	- 80	- 83	2.55	September
+ 57	+ 20	+ 10	+ 6	- 31	- 58	- 60	- 73	- 82	- 94	- 82	2.41	October
+ 55	+ 58	+ 54	+ 44	+ 7	- 22	- 37	- 44	- 45	- 32	- 41	1.28	November
+ 28	+ 41	+ 77	+ 46	+ 26	+ 17	+ 25	+ 31	+ 40	+ 13	- 7	1.45	December
+ 42	+ 34	+ 26	+ 8	- 21	- 49	- 58	- 58	- 53	- 57	- 58	1.97	Year
+ 35	+ 42	+ 54	+ 46	+ 20	0	- 7	- 12	- 10	- 15	- 21	1.27	Winter
+ 56	+ 36	+ 17	- 1	- 31	- 59	- 68	- 69	- 72	- 78	- 78	2.19	Equinox
+ 34	+26	+ 7	- 22	- 52	- 89	- 99	- 92	- 78	- 78	- 75	2.45	Summer

## HORIZONTAL INTENSITY (Unit 0.1γ)

											Y	
- 93	- 81	- 75	- 67	- 27	- 3	+ 11	+ 33	+ 37	+ 21	+ 17	25.2	January
- 74	- 68	- 66	- 54	- 14	+ 28	+ 48	+ 48	+ 42	+ 66	+ 50	20.2	February
-162	-106	- 38	- 2	+ 42	+ 70	+ 88	+ 96	+106	+128	+122	37.2	March
-190	-132	- 66	+ 20	+ 82	+114	+128	+118	+116	+120	+130	37.6	April
-135	- 61	+ 31	+ 99	+121	+161	+163	+139	+109	+105	+113	36.8	May
-168	-114	- 28	+ 66	+156	+234	+190	+162	+136	+130	+138	48.8	June
-159	-123	- 35	+ 41	+135	+197	+215	+209	+179	+161	+135	46.2	July
- 90	- 28	- 6	+ 26	+ 74	+114	+164	+154	+122	+124	+108	46.2	August
-118	- 54	- 14	+ 32	+ 68	+132	+162	+156	+148	+144	+142	44.2	September
-148	- 66	- 26	+ 2	+ 58	+102	+108	+126	+140	+154	+126	43.2	October
-112	- 96	- 66	- 40	+ 16	+ 54	+ 72	+ 78	+ 78	+ 56	+ 64	24.2	November
- 56	- 58	-100	- 48	- 20	- 12	- 20	- 24	- 36	- 4	+ 12	18.8	December
-125	- 82	- 41	+ 6	+ 58	+ 99	+111	+108	+ 98	+100	+ 96	35.7	Year
- 84	- 76	- 77	- 52	- 11	+ 17	+ 28	+ 34	+ 30	+ 35	+ 36	22.1	Winter
-154	- 89	- 36	+ 13	+ 63	+105	+121	+124	+127	+136	+130	40.5	Equinox
-138	- 81	- 9	+ 58	+121	+176	+183	+166	+137	+130	+123	44.5	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL  
International Quiet Days

Month and Season, 1960	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 23	+ 14	+ 10	+ 18	+ 42	+ 81	+127	+126	+120	+ 54	- 52	-117	-143
February	+ 1	+ 3	- 2	+ 23	+ 41	+ 55	+ 96	+109	+ 60	0	- 64	-109	-119
March	+ 70	+ 31	+ 36	+ 49	+ 57	+ 72	+111	+ 89	+ 49	- 54	-182	-245	-238
April	+ 88	+ 65	+ 51	+ 33	+ 79	+ 89	+102	+ 79	+ 7	- 95	-172	-250	-265
May	+ 46	+ 19	+ 4	+ 3	+ 26	+ 60	+ 31	- 18	- 67	-122	-173	-210	-215
June	+ 62	+ 51	+ 53	+ 49	+ 83	+ 88	+ 33	- 49	-129	-190	-226	-221	-212
July	+ 12	+ 23	+ 31	+ 52	+ 87	+120	+ 56	- 38	-128	-180	-224	-241	-216
August	+103	+ 94	+103	+ 98	+ 90	+ 90	+ 37	- 40	-143	-257	-258	-244	-205
September	+ 83	+ 72	+ 65	+ 59	+ 78	+ 67	+ 64	+ 1	- 91	-202	-262	-276	-233
October	+ 49	+ 39	+ 43	+ 52	+ 63	+ 54	+ 86	+ 80	+ 22	-108	-224	-280	-270
November	+ 5	- 31	+ 6	+ 19	+ 18	+ 82	+100	+106	+ 70	- 15	- 76	-129	-169
December	- 8	- 14	+ 3	+ 25	+ 40	+ 65	+ 55	+ 89	+ 79	+ 56	+ 5	- 2	- 36
Year	+ 45	+ 31	+ 34	+ 40	+ 59	+ 77	+ 75	+ 45	- 13	- 93	-159	-194	-193
Winter	+ 5	- 7	+ 4	+ 21	+ 35	+ 71	+ 95	+107	+ 82	+ 24	- 47	- 89	-117
Equinox	+ 73	+ 52	+ 49	+ 48	+ 69	+ 71	+ 91	+ 62	- 3	-115	-210	-263	-251
Summer	+ 56	+ 47	+ 48	+ 51	+ 71	+ 89	+ 39	- 36	-117	-187	-220	-229	-212
WEST COMPONENT (Unit 0.1γ)													
January	- 69	- 37	- 25	- 15	+ 7	+ 5	- 9	- 31	- 78	-129	-111	- 34	+ 69
February	- 75	- 87	- 34	- 18	- 23	- 37	- 52	- 67	-112	-151	-111	+ 8	+120
March	- 39	- 40	- 43	- 61	- 50	- 60	- 77	-150	-253	-271	-200	- 13	+187
April	- 52	- 55	- 48	- 35	- 67	-134	-198	-299	-338	-280	-166	- 1	+179
May	+ 36	+ 26	+ 6	- 36	- 71	-174	-274	-341	-342	-283	-154	+ 13	+167
June	+ 51	+ 24	+ 21	- 36	-104	-226	-317	-379	-411	-342	-181	0	+143
July	- 30	- 9	- 22	- 84	-144	-237	-347	-376	-366	-289	-155	+ 26	+193
August	- 8	- 3	- 57	-104	-131	-174	-293	-364	-379	-257	- 34	+162	+286
September	- 20	- 41	- 67	- 83	- 99	-128	-177	-257	-335	-294	-129	+ 68	+228
October	- 59	- 49	- 46	- 42	- 49	- 65	- 84	-143	-243	-298	-202	- 15	+162
November	- 84	- 45	- 11	- 27	0	- 13	- 17	- 58	-119	-166	- 74	+ 17	+121
December	- 69	- 35	- 19	- 29	- 11	- 3	- 1	+ 2	+ 2	- 6	+ 15	+ 59	+114
Year	- 35	- 29	- 29	- 47	- 62	-104	-154	-205	-248	-231	-125	+ 24	+164
Winter	- 74	- 51	- 22	- 22	- 7	- 12	- 20	- 39	- 77	-113	- 70	+ 13	+106
Equinox	- 43	- 46	- 51	- 55	- 66	- 97	-134	-212	-292	-286	-174	+ 10	+189
Summer	+ 12	+ 9	- 13	- 65	-113	-203	-308	-365	-375	-293	-131	+ 50	+197
VERTICAL COMPONENT (Unit 0.1γ)													
January	+ 15	+ 13	+ 17	+ 29	+ 33	+ 39	+ 25	+ 19	+ 9	- 15	- 51	-107	-159
February	+ 60	+ 58	+ 32	+ 20	+ 8	+ 6	0	- 8	+ 12	+ 14	- 36	- 92	- 94
March	+ 28	+ 18	+ 20	+ 24	+ 16	+ 16	+ 18	+ 42	+ 52	+ 16	- 54	-128	-158
April	+ 82	+ 70	+ 52	+ 40	+ 40	+ 54	+ 66	+ 58	+ 30	- 34	-122	-208	-242
May	+ 52	+ 34	+ 30	+ 44	+ 68	+100	+ 82	+ 40	- 18	- 76	-160	-240	-228
June	+ 39	+ 39	+ 39	+ 55	+ 81	+109	+ 99	+ 77	+ 25	- 61	-167	-237	-257
July	+ 56	+ 66	+ 80	+ 94	+108	+128	+ 98	+ 72	+ 20	- 86	-180	-254	-270
August	+ 38	+ 22	+ 28	+ 36	+ 58	+ 68	+ 84	+ 70	+ 14	- 72	-168	-240	-252
September	+ 75	+ 71	+ 75	+ 65	+ 69	+ 69	+ 71	+ 85	+ 47	- 27	-135	-225	-237
October	+ 28	+ 34	+ 40	+ 40	+ 50	+ 48	+ 44	+ 64	+ 68	+ 16	- 82	-168	-178
November	+ 28	+ 14	+ 8	+ 10	+ 12	+ 18	+ 4	+ 12	+ 12	- 40	- 94	-112	-112
December	+ 29	+ 9	+ 7	- 1	- 5	- 11	- 17	- 31	- 51	- 57	- 57	- 71	- 77
Year	+ 44	+ 37	+ 36	+ 38	+ 45	+ 54	+ 48	+ 42	+ 18	- 35	-109	-173	-189
Winter	+ 33	+ 23	+ 16	+ 15	+ 12	+ 13	+ 3	- 2	- 5	- 25	- 59	- 95	-111
Equinox	+ 53	+ 48	+ 47	+ 42	+ 44	+ 47	+ 50	+ 62	+ 49	- 7	- 98	-182	-204
Summer	+ 46	+ 40	+ 44	+ 57	+ 79	+101	+ 91	+ 65	+ 10	- 74	-169	-243	-252

## COMPONENTS OF MAGNETIC INTENSITY

## International Quiet Days

## NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing											Range	Month and Season, 1960
13	14	15	16	17	18	19	20	21	22	23	γ	
-119	-106	- 98	- 87	- 43	- 12	+ 8	+ 36	+ 45	+ 34	+ 31	27.0	January
-104	-100	- 90	- 71	- 25	+ 22	+ 47	+ 49	+ 44	+ 71	+ 53	22.8	February
-215	-160	- 81	- 26	+ 30	+ 64	+ 83	+ 95	+107	<b>+137</b>	+127	38.2	March
-245	-184	-108	- 12	+ 64	+104	+117	+107	+106	+111	<b>+124</b>	38.9	April
-181	-107	- 10	+ 72	+106	+152	<b>+153</b>	+126	+101	+ 95	+101	36.8	May
-207	-164	- 78	+ 24	+127	<b>+209</b>	+172	+150	+128	+119	+128	43.5	June
-217	-189	- 92	- 1	+107	+180	<b>+205</b>	+201	+171	+151	+131	44.6	July
-152	- 88	- 52	+ 1	+ 63	+107	<b>+156</b>	+149	+118	+123	+110	41.4	August
-167	- 99	- 47	+ 7	+ 48	+112	+146	<b>+148</b>	+143	+143	+141	42.4	September
-197	-115	- 63	- 22	+ 38	+ 86	+ 97	+121	+143	<b>+165</b>	+132	44.5	October
-144	-124	- 87	- 55	+ 6	+ 48	+ 70	+ 80	+ 86	+ 67	+ 75	27.5	November
- 78	- 77	<b>-111</b>	- 55	- 28	- 16	- 19	- 11	- 17	+ 14	+ 30	20.0	December
-169	-126	- 76	- 19	+ 41	+ 88	+103	<b>+104</b>	+ 98	+103	+ 99	35.6	Year
-111	-102	- 97	- 67	- 23	+ 11	+ 27	+ 39	+ 39	+ 47	+ 47	24.3	Winter
-206	-139	- 75	- 13	+ 45	+ 91	+111	+118	+125	<b>+139</b>	+131	41.0	Equinox
-189	-137	- 58	+ 24	+101	+162	<b>+171</b>	+157	+129	+122	+117	41.6	Summer

## WEST COMPONENT (Unit 0.1γ)

											γ	
<b>+141</b>	+138	+122	+106	+ 90	+ 49	+ 17	- 14	- 45	- 72	- 78	27.0	January
+164	<b>+177</b>	+132	+ 92	+ 64	+ 36	+ 12	- 2	- 8	- 25	- 12	32.8	February
<b>+285</b>	<b>+296</b>	+240	+137	+ 69	+ 42	+ 38	+ 16	+ 4	- 41	- 17	56.7	March
<b>+296</b>	<b>+285</b>	+231	+181	+110	+ 69	+ 71	+ 74	+ 68	+ 63	+ 43	63.4	April
<b>+251</b>	<b>+257</b>	+236	+161	+ 97	+ 64	+ 73	+ 85	+ 55	+ 69	+ 81	59.9	May
<b>+206</b>	<b>+276</b>	<b>+281</b>	+242	+181	+162	+121	+ 81	+ 57	+ 72	+ 71	69.2	June
<b>+316</b>	<b>+365</b>	+321	+242	+170	+115	+ 75	+ 62	+ 62	+ 70	+ 35	74.1	July
<b>+347</b>	+340	+258	+146	+ 69	+ 51	+ 61	+ 40	+ 33	+ 19	- 1	72.6	August
<b>+270</b>	<b>+254</b>	+184	+142	+122	+125	+106	+ 56	+ 42	+ 17	+ 21	60.5	September
<b>+264</b>	<b>+273</b>	+207	+135	+118	+101	+ 73	+ 37	- 2	- 49	- 22	57.1	October
<b>+175</b>	+150	+112	+ 81	+ 61	+ 36	+ 17	- 5	- 38	- 58	- 54	34.1	November
<b>+122</b>	+105	+ 52	+ 38	+ 43	+ 23	- 10	- 74	<b>-112</b>	-101	-104	23.4	December
<b>+236</b>	<b>+243</b>	+198	+142	+ 99	+ 73	+ 55	+ 30	+ 10	- 3	- 3	52.6	Year
<b>+151</b>	+143	+105	+ 79	+ 65	+ 36	+ 9	- 24	- 51	- 64	- 62	29.3	Winter
<b>+279</b>	<b>+277</b>	+215	+149	+105	+ 84	+ 72	+ 46	+ 28	- 3	+ 6	59.4	Equinox
<b>+280</b>	<b>+309</b>	+274	+198	+129	+ 98	+ 83	+ 67	+ 52	+ 57	+ 47	68.9	Summer

## VERTICAL COMPONENT (Unit 0.1γ)

											γ	
-123	- 69	- 19	+ 25	+ 51	+ <b>63</b>	+ <b>63</b>	+ 53	+ 39	+ 27	+ 17	22.2	January
- 70	- 38	- 14	+ 16	+ 16	+ 12	+ 16	+ 18	+ 22	+ 26	+ 18	15.4	February
-132	- 58	+ 8	+ 46	+ 46	+ 34	+ 34	+ 34	+ 30	+ 28	+ 10	21.0	March
-200	-104	- 38	+ 22	+ 62	+ 64	+ 62	+ 58	+ 60	+ 62	+ 70	32.4	April
-166	- 66	+ 12	+ 54	+ 90	+ 86	+ 72	+ 62	+ 56	+ 42	+ 32	34.0	May
-223	-125	- 19	+ 37	+ 97	+101	+ 97	+ 85	+ 61	+ 31	+ 21	36.6	June
-240	-144	- 26	+ 38	+108	+124	+ 94	+ 60	+ 26	+ 20	+ 18	39.8	July
-178	- 66	+ 38	+106	<b>+114</b>	+ 86	+ 58	+ 54	+ 44	+ 30	+ 30	36.6	August
-175	- 87	- 37	+ 11	+ 15	+ 21	+ 43	+ 55	+ 55	+ 57	+ 41	32.2	September
-146	- 84	- 24	+ 24	+ 26	+ 34	+ 42	+ 40	+ 40	+ 30	+ 6	24.6	October
- 68	- 20	+ 34	+ <b>62</b>	+ <b>62</b>	+ 48	+ 40	+ 28	+ 24	+ 18	+ 6	17.4	November
- 31	+ 7	+ 35	+ 47	+ 43	+ 33	+ 39	+ 53	+ <b>55</b>	+ 37	+ 3	13.2	December
-146	- 71	- 4	+ 41	+ <b>61</b>	+ 59	+ 55	+ 50	+ 43	+ 34	+ 23	27.1	Year
- 73	- 30	+ 9	+ 37	+ <b>43</b>	+ 39	+ 39	+ 38	+ 35	+ 27	+ 11	17.1	Winter
-163	- 83	- 23	+ 26	+ 37	+ 38	+ 45	+ 47	+ 46	+ 44	+ 32	27.5	Equinox
-202	-100	+ 1	+ 59	<b>+102</b>	+ 99	+ 80	+ 65	+ 47	+ 31	+ 25	36.7	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

Month and Season, 1960	International Disturbed Days												
	DECLINATION WEST (Unit 0.01)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-207	-359	-405	-359	-151	-49	-5	+59	+95	+137	+271	+427	+479
February	-409	-229	-171	-333	-367	-151	-61	-45	-119	-37	+103	+347	+443
March	-488	-582	-922	-812	-560	-384	-272	-186	-226	-126	-38	+204	+712
April	-1624	-1252	-1210	-844	-456	-662	-448	-452	-734	-426	+118	+358	+630
May	+2	-126	-630	-374	-352	-584	-614	-606	-682	-446	+6	+266	+708
June	-193	-499	-171	-535	-487	-617	-755	-889	-639	-477	-167	+105	+423
July	-489	-331	-283	-281	-287	-185	-243	-191	-247	-103	+9	+271	+393
August	-7	-611	-579	-451	-199	-47	-435	-521	-243	+9	+269	+537	+743
September	-552	-518	-586	-538	-332	-72	-140	-182	-126	-64	+368	+716	+920
October	-1056	-404	-642	-592	-34	-92	+158	+460	+170	+462	+632	+830	+902
November	-270	-530	-168	+14	+62	+26	+722	+524	-204	-410	-670	-28	+112
December	-378	-494	-278	-314	-280	+152	+158	+314	+200	+180	+294	+424	+654
Year	-473	-495	-504	-452	-287	-222	-161	-143	-230	-108	+100	+371	+593
Winter	-316	-403	-255	-248	-184	-5	+203	+213	-7	-33	-1	+293	+422
Equinox	-930	-689	-840	-697	-345	-303	-175	-90	-229	-39	+270	+527	+791
Summer	-172	-392	-416	-410	-331	-358	-512	-552	-453	-254	+29	+295	+567
	INCLINATION (Unit 0.01)												
January	+20	-50	+13	-53	-93	-125	-183	-195	-153	-92	-53	+6	+52
February	-1	-27	-51	-88	-77	-68	-72	-48	-54	-75	-44	0	0
March	-9	-87	-61	-77	-126	-129	-185	-111	-45	+14	+56	+189	+134
April	-141	+67	-32	-123	-173	-110	-70	-28	-74	-99	-16	+54	+25
May	-17	-55	-93	+15	-21	-65	-45	-38	-25	+109	+63	-7	-2
June	-62	-56	-154	-132	-148	-103	-24	+75	+59	+144	+202	+263	+264
July	-147	-190	-234	-225	-222	-161	-30	+24	+125	+186	+184	+207	+206
August	-254	-181	-257	-226	-235	-233	-96	+115	+234	+176	+154	+135	+104
September	-145	-205	-192	-205	-225	-222	-84	+88	+234	+280	+216	+135	+126
October	-41	-234	-252	-310	-359	-285	-227	-170	-45	+110	+117	+149	+167
November	+176	-139	+14	-130	-229	-60	+132	+422	+198	+153	+161	+44	+84
December	-111	-142	-165	-307	-368	-311	-245	-208	-186	-93	-42	-29	+70
Year	-61	-108	-122	-155	-190	-156	-94	-6	+22	+68	+83	+95	+103
Winter	+21	-89	-47	-145	-192	-141	-92	-7	-49	-27	+5	+5	+51
Equinox	-84	-115	-134	-179	-221	-187	-141	-55	+17	+76	+93	+132	+113
Summer	-120	-121	-185	-142	-157	-141	-49	+44	+98	+154	+151	+149	+143
	HORIZONTAL INTENSITY (Unit 0.1γ)												
January	-9	+65	-67	+31	+91	+149	+241	+253	+177	+75	+15	-73	-119
February	+6	+44	+54	+98	+88	+66	+72	+42	+60	+74	+8	-66	-58
March	+33	+117	+51	+65	+119	+105	+197	+105	+11	-81	-161	-383	-295
April	-84	-384	-190	-208	-130	-64	-78	-134	-40	-12	-152	-244	-112
May	-16	-16	+60	-84	-4	+64	+46	+38	-12	-254	-196	-112	-120
June	+79	+85	+177	+93	+125	+65	-25	-145	-125	-271	-377	-487	-481
July	+140	+152	+200	+212	+238	+174	-18	-100	-256	-352	-346	-390	-352
August	+332	+194	+246	+158	+204	+182	+18	-252	-428	-350	-324	-304	-242
September	+125	+177	+177	+201	+227	+223	+35	-203	-409	-471	-383	-249	-201
October	-170	+66	+226	+216	+250	+202	+164	+112	-22	-256	-244	-252	-224
November	-586	-40	-306	-40	+158	-64	-412	-840	-314	-176	-116	+32	-44
December	+110	+152	+164	+314	+402	+302	+238	+194	+184	+60	0	-14	-130
Year	-3	+51	+66	+88	+147	+117	+40	-77	-98	-168	-190	-212	-198
Winter	-120	+55	-39	+101	+185	+113	+35	-88	+27	+8	-23	-30	-88
Equinox	-24	-6	+66	+69	+117	+117	+79	-30	-115	-205	-235	-282	-208
Summer	+134	+104	+171	+95	+141	+121	+5	-115	-205	-307	-311	-323	-299

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## International Disturbed Days

## DECLINATION WEST (Unit 0'.01)

Universal Time. Hour commencing											Range	Month and Season, 1960
13	14	15	16	17	18	19	20	21	22	23		
+509	+439	+367	+289	+119	+175	- 25	-437	-529	-483	-349	10.38	January
+527	+495	+469	+235	+211	+ 97	+ 41	-247	-169	-301	-337	9.36	February
+834	+932	+946	+980	+502	+278	+228	+ 2	- 46	-508	-460	19.02	March
+1072	+1168	+1498	+1836	+1574	+300	+ 32	+288	- 44	-382	-336	34.60	April
+796	+820	+738	+768	+546	+ 14	- 64	- 58	- 66	-106	+ 36	15.02	May
+677	+805	+819	+797	+693	+507	+325	+229	+131	+ 13	- 83	17.08	June
+589	+667	+599	+499	+291	+189	- 31	- 59	- 63	-291	-419	11.56	July
+815	+781	+695	+437	+ 65	-195	-173	-223	-193	-373	- 89	14.26	August
+946	+954	+544	+300	+156	-518	-310	-256	-272	-158	-286	15.40	September
+958	+778	+470	+232	+ 90	-554	- 62	-692	-708	-372	-936	20.14	October
+532	+452	+252	+304	+182	-358	-242	-148	-192	- 18	+ 60	13.92	November
+542	+548	+430	+404	+412	+124	-342	-454	-580	-926	-782	15.80	December
+733	+737	+652	+590	+403	+ 5	- 52	-171	-228	-325	-332	16.38	Year
+527	+483	+379	+308	+231	+ 9	-142	-321	-367	-432	-352	12.37	Winter
+953	+958	+865	+837	+581	-123	- 28	-165	-267	-355	-505	22.29	Equinox
+719	+768	+713	+625	+399	+129	+ 14	- 28	- 48	-189	-139	14.48	Summer

## INCLINATION (Unit 0'.01)

+ 43	+106	+100	+149	+103	+ 31	+ 93	+ 27	+ 62	+114	+ 77	3.44	January
- 7	+ 71	+141	+134	+ 64	+126	+101	+ 37	+ 4	- 18	- 44	2.29	February
+ 77	+ 15	- 25	-110	+228	+153	+128	+ 68	+ 38	+ 42	-174	4.13	March
-111	- 92	- 64	-311	-454	+268	+407	+314	+320	+264	+182	8.61	April
+ 83	+ 79	+ 98	+ 21	- 20	- 77	- 3	+ 45	- 14	+ 25	- 46	2.02	May
+226	+184	+124	+ 11	-113	-100	-151	-154	-176	-113	- 57	4.40	June
+229	+211	+ 97	+ 15	- 34	- 25	- 80	- 52	- 60	- 13	- 15	4.63	July
+ 97	+ 27	+ 17	+ 5	0	+ 93	+ 97	+139	+100	+ 33	- 37	4.91	August
+125	+ 79	+191	+ 43	+ 1	+ 25	- 24	+ 16	- 84	- 73	-105	5.05	September
+ 82	+253	+181	+236	+201	+331	+162	+116	+ 23	- 93	-108	6.90	October
+ 44	+ 8	+ 40	+ 50	0	-102	-208	-100	-117	-268	-172	6.90	November
+131	+185	+185	+240	+318	+363	+288	+176	+100	+ 92	+ 61	7.31	December
+ 85	+ 94	+ 90	+ 40	+ 25	+ 91	+ 67	+ 53	+ 16	- 1	- 37	5.05	Year
+ 53	+ 93	+117	+143	+121	+105	+ 69	+ 35	+ 12	- 20	- 19	4.99	Winter
+ 43	+ 64	+ 71	- 35	- 6	+194	+168	+129	+ 74	+ 35	- 51	6.17	Equinox
+159	+125	+ 84	+ 13	- 42	- 27	- 34	- 5	- 37	- 17	- 39	3.99	Summer

## HORIZONTAL INTENSITY (Unit 0.1γ)

											γ	
- 87	-133	-115	-155	- 69	+ 19	- 55	+ 41	- 51	-137	- 85	40.8	January
- 30	-116	-188	-152	- 34	-116	- 72	+ 26	+ 40	+ 66	+ 80	28.6	February
-189	- 73	+ 33	+259	-127	- 55	+ 23	+ 51	+ 41	- 17	+169	64.2	March
+198	+342	+408	+926	+1350	+ 78	-164	-274	-424	-342	-268	177.4	April
-190	-112	- 6	+130	+192	+302	+142	+ 38	+ 74	- 30	+ 56	55.6	May
-401	-291	-153	+ 71	+309	+309	+391	+375	+361	+199	+105	87.8	June
-350	-282	- 46	+162	+290	+262	+310	+200	+144	+ 18	- 6	70.0	July
-184	- 28	+ 64	+162	+274	+158	+ 96	- 36	- 40	+ 14	+ 76	76.0	August
-151	- 21	-143	+ 81	+153	+173	+173	+ 77	+179	+103	+131	69.8	September
- 12	-158	+ 92	+ 86	+188	-160	- 28	- 56	- 26	+ 10	- 6	50.6	October
+ 58	+168	+242	+164	+204	+374	+424	+250	+244	+400	+216	126.4	November
-156	-184	-112	-182	-288	-314	-250	-146	-104	-124	-114	71.6	December
-125	- 74	+ 6	+129	+203	+ 86	+ 83	+ 45	+ 37	+ 13	+ 29	76.6	Year
- 54	- 66	- 43	- 81	- 47	- 9	+ 12	+ 43	+ 32	+ 51	+ 24	66.9	Winter
- 39	+ 23	+ 97	+338	+391	+ 9	+ 1	- 51	- 57	- 61	+ 7	90.5	Equinox
-281	-178	- 35	+131	+266	+258	+235	+144	+135	+ 50	+ 58	72.3	Summer



## COMPONENTS OF MAGNETIC INTENSITY

## International Disturbed Days

## NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing											Range	Month and Season, 1960
13	14	15	16	17	18	19	20	21	22	23	γ	
-134	-172	-148	<b>-180</b>	- 79	+ 2	- 52	+ 82	0	- 89	- 51	42.4	January
- 79	-161	<b>-229</b>	-172	- 53	-123	- 75	+ 49	+ 55	+ 93	+111	35.7	February
-265	-160	- 57	+163	-172	- 80	+ 1	+ 50	+ 45	+ 31	+210	61.6	March
+ 94	+227	+261	+739	<b>+1181</b>	+ 49	-165	-297	<b>-413</b>	-301	-232	159.4	April
<b>-262</b>	-188	- 76	+ 56	+138	<b>+296</b>	+146	+ 43	+ 79	- 20	+ 52	55.8	May
-459	-363	-228	+ 5	+239	+257	<b>+354</b>	+348	+343	+195	+111	86.8	June
-400	-341	-102	+113	+258	+240	<b>+308</b>	+203	+148	+ 45	+ 34	71.8	July
-258	-101	- 2	+118	+264	+174	+111	- 14	- 21	+ 49	+ 83	72.7	August
-238	-111	-192	+ 51	+136	+219	+200	+100	+202	+116	+156	71.3	September
-102	-229	+ 46	+ 63	+177	-105	- 22	+ 10	+ 41	+ 45	+ 82	60.9	October
+ 7	+123	+215	+133	+184	+402	<b>+440</b>	+260	+258	+396	+207	131.7	November
-205	-233	-151	-217	<b>-323</b>	-321	-214	-101	- 48	- 35	- 39	74.5	December
-192	-142	- 55	+ 73	+163	+ 84	+ 86	+ 61	+ 57	+ 44	+ 60	77.1	Year
-103	-111	- 78	-109	- 68	- 10	+ 25	+ 73	+ 66	+ 91	+ 57	71.1	Winter
-128	- 68	+ 15	+254	<b>+331</b>	+ 21	+ 3	- 34	- 31	- 27	+ 54	88.3	Equinox
-345	-248	-102	+ 73	+225	<b>+242</b>	+230	+145	+137	+ 67	+ 70	71.8	Summer

## WEST COMPONENT (Unit 0.1γ)

											γ	
<b>+258</b>	+212	+177	+128	+ 52	+ 97	- 23	-227	<b>-292</b>	-283	-202	55.0	January
<b>+277</b>	+245	+219	+100	+107	+ 32	+ 10	-128	- 84	-150	-167	49.5	February
<b>+414</b>	+487	+513	<b>+570</b>	+247	+139	+126	+ 10	- 18	-275	-217	105.5	March
<b>+609</b>	+685	+874	<b>+1144</b>	+1077	+174	- 11	+107	- 97	-264	-226	202.9	April
<b>+394</b>	+420	+395	<b>+434</b>	+326	+ 60	- 10	- 25	- 23	- 62	+ 29	80.2	May
<b>+293</b>	+381	+413	<b>+439</b>	+425	+325	+242	+188	+133	+ 41	- 26	94.1	June
<b>+255</b>	+309	<b>+313</b>	+295	+206	+147	+ 37	+ 3	- 9	-153	-226	55.1	July
<b>+405</b>	<b>+414</b>	+384	+262	+ 82	- 77	- 76	-126	-110	-198	- 35	73.7	August
<b>+481</b>	<b>+508</b>	+267	+175	+110	-248	-136	-124	-115	- 67	-131	79.1	September
<b>+511</b>	+390	+268	+139	+ 81	-325	- 38	-381	-384	-198	-503	110.6	October
<b>+295</b>	+271	+177	+191	+133	-127	- 56	- 36	- 61	+ 60	+ 70	69.5	November
<b>+264</b>	+262	+211	+185	+171	+ 12	-227	-269	-329	<b>-518</b>	-439	84.6	December
<b>+371</b>	<b>+382</b>	+351	+339	+251	+ 17	- 13	- 84	-116	-172	-173	88.3	Year
<b>+273</b>	+247	+196	+151	+116	+ 3	- 74	-165	-191	<b>-223</b>	-185	64.7	Winter
<b>+504</b>	<b>+517</b>	+481	+507	+379	- 65	- 15	- 97	-153	-201	-269	124.5	Equinox
<b>+337</b>	<b>+381</b>	+376	+357	+260	+114	+ 48	+ 10	- 2	- 93	- 65	75.8	Summer

## VERTICAL COMPONENT (Unit 0.1γ)

											γ	
- 54	+ 60	+ 80	+160	<b>+200</b>	+152	+196	+190	+ 98	+ 80	+ 72	35.0	January
- 95	- 23	+ 55	+115	+145	+171	+183	<b>+191</b>	+107	+ 91	+ 31	34.6	February
-172	-116	- 10	+220	<b>+500</b>	+404	<b>+500</b>	+354	+226	+106	-212	73.0	March
+ 72	+476	+726	+1070	<b>+1556</b>	+1114	+1038	+456	+128	+124	+ 12	246.8	April
-154	+ 14	+328	+374	+376	<b>+432</b>	+320	+246	+124	+ 16	- 30	71.8	May
-144	- 34	+ 78	+204	+324	+370	<b>+382</b>	+336	+226	+ 68	+ 46	62.6	June
- 16	+ 80	+232	+428	<b>+554</b>	+522	+442	+284	+124	- 2	- 66	90.6	July
- 91	+ 29	+209	+395	+637	<b>+691</b>	+561	+401	+255	+149	+ 47	111.2	August
+ 84	+228	+334	+338	+360	<b>+490</b>	+320	+234	+124	- 14	- 60	79.4	September
<b>+257</b>	+515	+845	+1023	<b>+1139</b>	+781	+501	+275	+ 21	-301	-391	181.0	October
<b>+287</b>	+419	<b>+701</b>	+555	+475	+513	+259	+231	+161	- 5	- 99	144.8	November
+ 94	+216	+386	+412	+440	<b>+534</b>	+424	+274	+106	+ 32	- 52	91.6	December
+ 7	+155	+330	+441	<b>+559</b>	+515	+427	+289	+142	+ 29	- 59	101.9	Year
+ 58	+168	+305	+311	+315	<b>+343</b>	+265	+221	+118	+ 49	- 12	76.5	Winter
+ 60	+276	+474	+663	<b>+889</b>	+697	+590	+330	+125	- 21	-163	145.1	Equinox
-101	+ 22	+212	+350	+473	<b>+504</b>	+426	+317	+182	+ 58	- 1	84.1	Summer

TABLE VIII. - NON-CYCLIC CHANGE ( $24^h$  minus  $0^h$ )

Month 1960	All Days			Quiet Days			Disturbed Days		
	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity
	/	Y	Y	/	Y	Y	/	Y	Y
January	-0.01	+0.5	-0.3	-0.08	+ 0.2	0.0	-0.92	- 6.6	+ 2.8
February	-0.08	-0.6	+0.4	+0.56	+ 3.6	-3.4	+0.70	+ 5.0	- 0.4
March	-0.91	-3.0	-3.9	+0.18	+ 5.8	-2.8	-3.28	- 8.2	-33.2
April	+0.95	-0.9	+6.6	+0.80	+ 4.2	-2.0	+8.98	-39.2	+49.2
May	-0.06	+4.8	-2.5	+0.34	+ 6.6	-2.4	+0.34	+ 8.8	- 2.8
June	+0.05	-0.2	+0.2	-0.10	+ 5.0	-2.6	-0.18	+ 1.2	+ 5.0
July	+0.01	-0.3	-0.2	+0.78	+10.2	-3.2	-0.28	-20.4	- 0.6
August	-0.06	-0.2	+0.3	-0.40	+ 4.4	-1.6	-0.72	-12.4	+ 2.0
September	-0.05	+0.3	+0.1	+0.38	+ 5.4	-3.0	+0.32	+ 2.2	+ 6.6
October	+0.02	-0.4	+0.1	+0.04	+ 5.6	-2.2	-0.56	- 7.0	- 5.8
November	0.00	-0.3	+0.5	+0.46	+ 8.4	-3.8	+1.58	+33.4	+18.0
December	-0.04	+0.2	-0.1	-0.20	+ 6.4	-3.4	-2.24	-16.4	+ 4.2
Year	..	..	..	+0.23	+ 5.5	-2.5	+0.31	- 5.0	+ 3.7

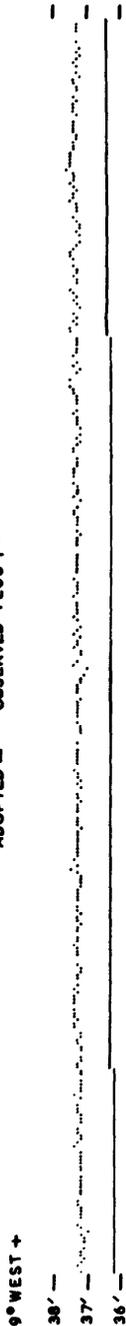
TABLE IX. - MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS

Month 1960	Declination West		Inclination		Horizontal Intensity	North Intensity	West Intensity	Vertical Intensity	Total Intensity
	o	'	o	'	c.g.s.	c.g.s.	c.g.s.	c.g.s.	c.g.s.
January	10	1.9	66	44.4	.18697	.18412	.03257	.43496	.47344
February	10	1.5	66	43.7	.18705	.18419	.03256	.43490	.47342
March	10	1.1	66	43.5	.18708	.18423	.03255	.43490	.47343
April	9	59.5	66	45.1	.18690	.18407	.03243	.43505	.47350
May	9	59.3	66	43.9	.18708	.18424	.03245	.43506	.47358
June	9	58.9	66	42.9	.18719	.18436	.03245	.43497	.47354
July	9	58.6	66	43.1	.18718	.18435	.03243	.43501	.47357
August	9	58.4	66	43.1	.18717	.18434	.03242	.43500	.47356
September	9	57.1	66	43.8	.18709	.18428	.03233	.43503	.47355
October	9	56.7	66	44.9	.18697	.18416	.03229	.43515	.47362
November	9	56.2	66	44.8	.18700	.18419	.03227	.43519	.47367
December	9	56.1	66	44.1	.18711	.18430	.03228	.43521	.47373
Year	9	58.8	66	43.9	.18707	.18424	.03242	.43504	.47355

HARTLAND 1960

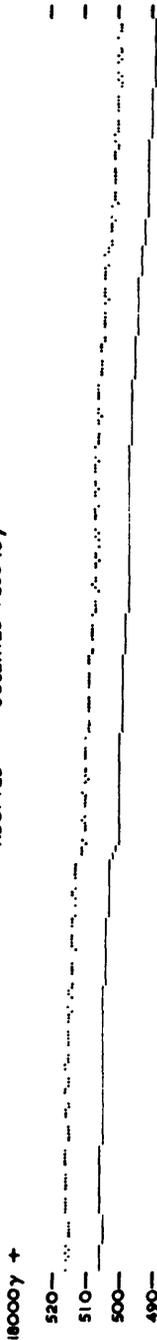
Declination Base line Values

ADOPTED --- OBSERVED PLUS 1' ---



Horizontal Intensity Base line Values

ADOPTED --- OBSERVED PLUS 10γ ---



Vertical Intensity Base line Values

ADOPTED --- OBSERVED PLUS 10γ ---



JAN , FEB , MAR , APR , MAY , JUN , JUL , AUG , SEP , OCT , NOV , DEC ,



RESULTS OF OBSERVATIONS

1961

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
9° + Tabular Quantities																	
1	55.7	55.1	54.5	54.9	55.6	57.6	59.2	55.9	56.4	56.9	57.7	57.8	58.6	58.8	57.6	56.6	
2 *	55.7	55.7	55.8	56.0	55.9	55.8	55.3	54.5	54.7	55.3	55.9	56.3	57.2	57.5	57.5	57.2	
3	56.0	55.5	55.3	55.0	55.3	54.7	54.8	55.1	55.8	56.4	56.5	56.7	57.7	57.9	56.6	56.1	
4 *	55.6	56.0	56.1	56.2	56.1	55.8	54.7	54.5	55.2	56.1	56.8	57.2	57.3	57.6	57.6	58.4	
5 *	56.2	56.4	56.5	56.6	56.4	56.0	55.4	54.8	54.5	54.7	56.0	57.6	58.5	58.6	57.5	57.0	
6	55.7	56.4	57.0	57.6	55.3	55.4	54.6	54.3	55.3	57.2	57.7	59.2	61.5	59.9	58.8	57.7	
7	54.3	53.9	55.1	50.7	53.3	54.2	54.8	55.2	55.6	56.6	57.7	58.4	59.6	59.9	59.3	58.8	
8 **	51.3	51.1	48.6	49.3	50.4	52.7	53.4	55.1	54.7	56.1	58.3	60.2	61.6	61.7	61.7	60.8	
9 **	53.7	54.5	55.5	57.7	56.9	55.8	56.3	58.8	60.1	61.7	60.4	59.1	61.1	61.2	62.8	62.5	
10	52.3	54.0	54.6	55.1	55.4	55.4	55.4	55.3	55.4	56.9	58.5	58.9	60.1	59.8	59.1	57.6	
11 *	55.2	55.2	55.0	55.1	55.2	55.6	55.2	55.0	54.5	54.7	55.3	56.6	57.6	58.2	57.6	56.8	
12	55.7	55.7	55.8	55.7	54.8	55.1	55.3	55.1	54.5	54.4	55.7	57.6	58.8	59.3	58.2	56.8	
13	54.4	53.7	54.8	54.4	54.3	54.3	54.6	54.6	54.4	56.3	57.3	59.3	60.9	62.1	59.8	59.1	
14	53.7	54.1	53.8	54.3	54.5	55.2	55.1	55.2	55.3	55.6	56.0	56.8	57.8	59.1	58.3	57.4	
15	51.6	52.8	53.7	52.1	52.0	53.8	54.7	55.1	55.1	55.5	56.8	57.7	58.5	59.2	59.2	57.5	
16	52.4	55.3	55.0	56.0	56.1	55.3	58.3	57.7	55.7	55.1	55.7	56.4	57.7	58.5	57.5	56.4	
17	55.7	56.3	57.2	55.3	54.7	55.4	55.3	54.8	55.3	55.7	56.0	56.3	57.3	58.7	58.6	57.7	
18	53.6	55.9	56.0	55.7	55.7	56.0	55.8	55.6	54.7	57.5	57.2	58.4	60.9	64.2	60.7	59.7	
19 **	53.7	54.2	55.7	55.7	56.0	56.0	55.6	55.0	54.7	54.4	54.9	56.2	58.2	59.0	58.6	56.4	
20 **	43.8	50.6	52.7	48.7	53.4	53.1	56.4	55.3	54.7	55.1	56.3	57.5	58.2	62.4	60.2	58.5	
21	54.5	54.8	54.8	55.7	58.5	55.4	56.3	57.3	59.2	59.2	59.8	58.3	59.4	57.8	58.5	58.8	
22 **	54.3	54.3	55.0	55.1	54.6	54.7	56.6	60.2	57.5	55.5	57.3	58.5	60.6	58.2	58.3	57.5	
23	52.6	53.5	53.9	55.5	54.6	54.5	55.1	55.0	54.9	55.5	55.6	56.7	58.0	58.4	57.5	56.1	
24	53.4	51.2	53.5	54.7	55.7	55.7	58.9	60.1	56.7	56.3	57.9	58.5	58.5	60.1	58.8	58.9	
25	49.2	51.1	53.8	54.0	57.5	55.1	54.8	54.8	54.2	54.5	56.3	57.1	60.3	61.2	59.6	58.8	
26	53.8	54.0	54.7	55.1	55.3	54.7	55.2	55.4	55.1	55.3	56.2	58.6	59.5	59.3	59.7	57.7	
27	55.1	56.0	56.2	55.0	55.1	55.2	55.5	55.4	55.1	56.2	56.0	57.3	58.1	59.0	56.7	57.6	
28	53.8	53.4	53.4	54.4	54.8	54.7	55.1	55.0	55.1	54.7	54.7	57.4	59.0	60.7	58.1	58.8	
29	54.7	54.0	56.1	55.3	55.8	55.4	55.3	55.3	54.5	54.4	55.5	57.8	59.4	60.4	56.2	55.5	
30	54.8	55.4	56.2	56.1	57.0	55.1	54.6	54.1	54.0	54.1	54.5	56.3	57.6	58.5	57.4	56.5	
31 *	55.3	54.6	56.7	55.4	55.2	55.2	54.7	54.5	53.8	53.5	54.3	55.8	58.1	59.3	58.4	56.6	
Mean	53.8	54.3	54.9	54.8	55.2	55.1	55.6	55.6	55.4	55.9	56.6	57.6	59.0	59.6	58.6	57.8	
Mean *	55.6	55.6	56.0	55.9	55.8	55.7	55.1	54.7	54.5	54.9	55.7	56.7	57.7	58.2	57.7	57.2	
Mean **	51.4	52.9	53.5	53.3	54.3	54.5	55.7	56.9	56.3	56.6	57.4	58.3	59.9	60.5	60.3	59.1	
FEBRUARY																	
9° + Tabular Quantities																	
1 *	54.4	53.9	54.3	54.7	55.1	55.4	55.3	54.7	54.6	54.3	54.7	56.3	58.3	58.5	57.6	57.3	
2 *	55.2	55.6	55.6	55.8	56.0	55.7	55.3	54.5	54.5	54.7	55.3	56.6	57.9	58.9	58.3	57.3	
3	55.1	55.2	55.6	55.4	55.2	54.4	54.4	54.1	54.5	56.3	57.6	60.2	62.2	65.5	65.5	57.7	
4 **	52.8	53.5	53.5	54.0	54.4	53.7	54.2	53.5	54.2	55.3	56.8	58.2	59.3	62.2	64.1	62.8	
5	40.3	49.5	54.5	53.3	53.5	49.4	50.1	54.1	57.2	57.6	57.3	56.6	57.7	58.2	56.4	55.0	
6	53.9	54.4	54.4	54.4	54.5	55.0	54.5	54.5	54.1	54.8	54.7	56.3	56.9	59.4	59.4	60.4	
7	53.6	51.5	49.8	51.7	51.3	53.1	52.0	52.5	52.7	54.1	55.7	57.6	60.2	60.8	59.6	58.5	
8	50.5	50.0	52.0	53.4	53.3	54.1	53.7	54.1	54.0	54.4	56.0	58.0	60.1	59.8	59.8	58.7	
9	53.5	51.6	50.3	51.6	53.2	53.2	52.7	53.5	53.6	54.1	55.3	57.5	58.6	59.5	59.3	58.6	
10	54.1	52.4	52.6	53.4	53.7	54.3	54.0	53.8	54.1	53.7	54.8	56.3	57.6	58.2	58.5	57.3	
11	52.6	52.5	53.1	52.7	53.7	54.3	54.3	54.6	54.2	54.4	56.2	59.3	60.7	59.8	58.8	57.8	
12 *	55.5	55.5	55.5	55.0	54.7	53.8	54.1	53.6	53.2	53.0	54.7	56.8	57.7	57.8	56.9	56.2	
13	55.5	55.6	55.8	55.8	55.7	55.5	55.1	54.5	53.3	52.7	59.6	63.7	62.6	61.4	58.7	61.2	
14	54.7	55.2	54.5	54.1	54.2	53.9	53.4	53.2	52.9	53.0	54.5	56.2	57.5	57.7	57.4	56.5	
15	52.9	55.0	55.0	55.1	55.5	55.1	55.0	53.8	53.8	53.8	55.6	57.4	57.2	57.9	57.6	56.7	
16 **	55.6	54.3	52.7	53.7	53.8	54.4	54.6	55.3	55.7	56.3	54.4	59.0	63.4	59.9	61.5	60.7	
17 **	54.0	53.9	54.8	54.9	54.8	54.6	54.3	53.9	52.7	52.3	55.1	58.7	57.8	56.9	59.4	56.9	
18 **	40.9	39.3	43.2	50.5	55.6	56.8	59.4	55.2	55.3	55.7	55.6	57.5	59.4	56.9	56.7	57.5	
19	50.3	51.7	53.3	54.5	54.4	54.3	55.3	55.4	55.8	55.5	55.8	58.5	60.4	58.7	58.7	58.5	
20 **	51.3	48.7	52.7	54.5	54.0	55.4	54.6	55.4	55.3	55.5	56.9	57.4	60.4	57.2	58.5	61.5	
21	53.3	55.1	56.0	57.7	57.3	55.3	54.6	55.0	53.7	53.7	54.5	57.1	59.0	58.3	56.3	58.5	
22	55.1	54.5	55.6	59.0	54.9	54.0	54.3	54.7	53.8	53.4	54.1	55.6	57.6	59.4	59.8	57.6	
23	50.4	52.7	53.8	53.9	54.1	55.4	56.0	56.1	53.6	52.3	52.9	55.1	58.5	58.6	58.8	58.6	
24	53.0	54.4	54.0	53.9	53.5	58.3	57.8	55.2	53.0	52.0	52.6	54.8	57.3	58.6	57.9	56.8	
25 *	54.6	54.6	54.6	54.6	54.3	54.0	54.1	54.0	52.9	52.5	53.7	55.3	57.5	58.1	57.8	57.1	
26 *	53.0	52.7	53.2	54.7	53.9	53.7	53.6	53.2	52.4	51.8	52.7	55.2	58.5	59.5	59.5	58.5	
27	54.7	54.8	54.7	55.7	53.9	51.2	52.3	52.7	51.7	51.7	54.1	56.3	59.5	60.9	60.6	59.1	
28	51.7	49.7	50.0	50.4	52.3	51.8	52.3	52.3	51.4	52.2	54.5	57.3	60.2	61.2	59.8	57.9	
Mean	52.6	52.8	53.4	54.2	54.3	54.3	54.3	54.2	53.9	54.0	55.2	57.3	59.1	59.3	59.0	58.3	
Mean *	54.5	54.5	54.6	55.0	54.8	54.5	54.5	54.0	53.5	53.3	54.2	56.0	58.0	58.6	58.0	57.3	
Mean **	50.9	49.9	51.4	53.5	54.5	55.0	55.4	54.7	54.6	55.0	55.8	58.2	60.1	58.6	60.0	59.9	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														JANUARY
										h m	h m			
57.2	56.7	56.3	55.5	55.2	55.3	55.3	55.4	56.5	06 18	60.5	03 13	53.8	6.7	1
56.7	56.4	55.8	55.3	54.6	54.7	55.1	56.0	55.9	13 37	58.1	21 49	53.6	4.5	2 *
56.3	56.6	56.7	55.7	55.0	54.8	55.1	55.5	55.9	13 10	58.5	02 58	54.3	4.2	3
57.6	57.7	57.0	56.0	55.3	55.1	55.3	55.5	56.3	15 13	58.5	06 54	54.3	4.2	4 *
57.4	57.2	56.7	56.6	55.1	53.4	54.3	55.1	56.2	12 59	59.4	21 42	52.7	6.7	5 *
57.3	57.4	57.5	56.5	55.5	54.8	54.6	54.5	56.7	12 28	62.1	23 56	54.2	7.9	6
58.2	57.5	57.3	56.6	56.0	56.0	55.4	54.1	56.2	13 24	60.5	03 13	50.0	10.5	7
60.2	59.5	60.1	56.2	54.8	55.5	54.4	51.4	55.8	18 38	65.9	02 32	47.9	18.0	8 **
61.8	62.5	63.2	56.1	53.4	49.4	43.2	48.7	57.4	18 16	65.1	22 36	36.3	28.8	9 **
56.8	56.4	55.8	55.6	55.1	54.4	55.1	55.2	56.2	12 39	60.6	00 15	51.2	9.4	10
56.2	55.9	55.6	55.6	55.4	55.4	55.3	55.5	55.7	13 40	58.5	08 40	54.0	4.5	11 *
56.8	56.5	56.8	55.8	54.5	53.4	54.7	54.8	55.9	13 22	59.5	20 53	51.5	8.0	12
58.1	57.3	56.5	57.1	57.3	55.8	54.9	55.6	56.5	13 29	62.7	01 02	53.2	9.5	13
57.0	56.3	57.6	57.6	57.5	55.2	51.8	51.2	55.7	13 29	59.5	23 02	50.2	9.3	14
56.4	55.9	55.9	55.5	54.8	51.3	36.3	43.1	53.9	14 12	60.6	22 17	30.1	30.5	15
55.6	55.6	55.7	55.7	56.1	55.7	55.0	55.3	56.0	06 59	59.2	00 00	49.4	9.8	16
56.4	55.0	55.0	55.1	54.7	54.4	54.7	53.6	55.8	13 49	59.6	23 52	50.4	9.2	17
58.7	57.5	56.7	55.0	49.4	53.8	52.0	50.0	56.3	13 46	66.1†	20 15	46.4	19.7	18
55.6	53.5	55.4	42.2	45.7	44.3	44.4	41.7	53.2	15 09	60.1	19 51	29.0†	31.1	19 **
58.3	54.4	52.0	54.1	54.2	53.6	54.1	54.3	54.7	13 09	63.5	00 00	39.1	24.4	20 **
55.7	55.3	54.8	54.4	53.6	53.6	53.7	54.2	56.4	04 17	60.6	22 07	52.8	7.8	21
50.8	54.8	55.4	54.1	52.3	54.1	52.7	53.1	55.6	12 37	63.5	16 32	46.3	17.2	22 **
55.3	55.5	55.6	56.1	55.7	55.1	54.9	53.3	55.4	13 06	58.8	00 08	51.8	7.0	23
57.6	54.4	45.3	55.4	55.0	54.1	54.3	52.5	55.7	07 51	61.7	18 18	36.9	24.8	24
56.7	55.2	54.4	55.2	55.0	54.5	54.0	53.7	55.5	13 12	63.4	00 46	46.4	17.0	25
56.9	54.8	52.8	53.4	53.6	50.3	53.7	53.7	55.4	12 35	60.6	21 34	48.1	12.5	26
56.8	55.8	54.4	55.5	55.3	55.2	54.7	55.1	55.9	13 35	59.8	18 22	52.7	7.1	27
56.6	57.5	48.3	52.2	52.4	51.9	52.7	52.4	54.9	13 31	61.6	18 39	41.9	19.7	28
55.5	56.3	56.5	56.0	52.7	53.2	54.3	53.8	55.6	13 27	61.3	20 01	50.5	10.8	29
56.6	56.6	56.4	55.6	55.2	55.1	54.7	54.6	55.7	13 33	58.5	09 03	53.5	5.0	30
56.5	57.0	56.7	55.7	55.6	55.3	55.0	54.8	55.8	13 35	59.5	09 03	53.2	6.3	31 *
56.9	56.4	55.6	55.1	54.4	53.8	53.1	53.2	55.8	-	60.9	-	48.2	12.6	Mean
56.9	56.8	56.4	55.8	55.2	54.8	55.0	55.4	56.0	-	58.8	-	53.6	5.2	Mean *
57.3	56.9	57.2	52.5	52.1	51.4	49.8	49.8	55.3	-	63.6	-	39.7	23.9	Mean **
9° + Tabular Quantities														FEBRUARY
										h m	h m			
57.8	58.3	57.7	57.5	56.2	55.7	55.1	55.2	56.0	12 45	58.8	00 52	53.4	5.4	1 *
57.0	57.2	56.6	56.0	55.5	55.0	55.2	54.9	56.0	13 50	59.6	21 24	54.5	5.1	2 *
58.9	60.8	57.8	56.8	56.1	54.7	53.9	53.3	57.1	14 17	70.5†	23 50	52.3	18.2	3
60.5	62.3	56.4	42.3	46.5	37.0	40.6	30.2	53.3	14 40	66.4	23 30	23.8†	42.6	4 **
54.6	55.2	54.7	54.4	53.8	53.6	54.0	54.1	54.0	13 13	59.0	00 23	32.8	26.2	5
57.6	57.4	56.8	56.7	54.5	51.8	51.7	54.3	55.5	15 12	64.4	22 06	48.5	15.9	6
57.7	57.8	57.3	55.7	56.2	55.5	53.2	50.1	54.9	13 42	61.4	22 50	45.7	15.7	7
57.3	56.6	57.3	55.3	57.3	54.3	52.5	53.4	55.2	12 48	61.2	01 28	49.4	11.8	8
57.5	56.7	56.8	56.4	56.1	55.1	54.6	52.4	55.1	13 26	60.0	02 46	48.4	11.6	9
56.7	56.7	56.8	57.2	56.8	55.7	54.8	53.3	55.3	14 09	58.6	01 36	51.6	7.0	10
56.8	55.4	55.0	54.9	53.3	53.4	54.4	55.2	55.3	12 01	61.1	01 29	51.8	9.3	11
55.4	55.5	55.4	55.3	55.3	54.8	54.4	54.8	55.2	13 25	58.2	09 30	52.5	5.7	12 *
55.6	57.5	53.8	53.8	54.3	54.0	53.7	54.0	56.4	11 08	65.7	16 34	48.8	16.9	13
55.8	55.9	55.6	55.2	52.8	52.6	52.7	50.1	54.6	13 33	58.4	23 18	46.2	12.2	14
55.7	55.3	55.1	54.4	53.6	54.1	54.7	54.9	55.2	14 24	58.3	00 22	51.5	6.8	15
56.6	54.1	54.3	53.9	50.5	51.5	53.5	53.8	55.6	12 42	65.6	20 58	49.4	16.2	16 **
56.9	55.4	55.7	52.8	48.2	43.2	30.2	36.3	52.7	14 23	61.4	22 25	27.4	34.0	17 **
56.0	43.5	47.1	54.0	54.2	53.7	52.7	52.3	52.9	13 00	61.9	17 40	27.3	34.6	18 **
55.1	56.1	50.8	50.9	54.1	54.3	53.7	52.1	54.9	12 37	62.0	19 00	46.3	15.7	19
50.9	55.9	52.4	48.1	50.5	48.9	51.1	51.1	54.1	15 41	63.6	21 28	43.4	20.2	20 **
56.5	51.8	48.3	50.8	49.5	46.2	50.8	53.0	54.3	13 19	60.5	21 05	43.2	17.3	21
54.1	53.8	55.8	55.5	53.6	50.7	54.2	53.5	55.2	14 36	61.3	21 36	48.4	12.9	22
56.8	56.1	55.6	54.8	49.3	53.6	53.1	52.9	54.7	14 30	59.5	20 21	45.4	14.1	23
55.5	54.7	54.9	54.9	54.9	54.7	54.9	54.7	55.1	05 47	59.3	00 04	51.5	7.8	24
55.8	55.7	55.4	55.2	54.7	54.5	52.6	53.2	54.9	13 37	58.3	22 46	50.6	7.7	25 *
57.2	56.3	55.9	55.1	54.5	54.6	54.4	54.6	54.9	14 48	59.7	09 04	51.5	8.2	26 *
57.3	56.4	56.3	55.2	54.8	54.7	54.5	54.1	55.3	15 10	63.2	05 43	50.4	12.8	27
56.2	55.7	55.1	53.4	51.9	49.7	50.5	52.6	53.8	13 20	62.5	19 55	48.4	14.1	28
56.4	55.9	55.0	54.2	53.5	52.4	52.2	51.9	54.9	-	61.4	-	46.2	15.2	Mean
56.6	56.6	56.2	55.8	55.2	54.9	54.3	54.5	55.4	-	58.9	-	52.5	6.4	Mean *
56.2	54.2	53.2	50.2	50.0	46.9	45.6	44.7	53.7	-	63.8	-	34.3	29.5	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MARCH																	
9° + Tabular Quantities																	
1	53.9	54.5	54.5	53.7	54.8	54.4	52.9	52.8	51.9	52.1	53.8	57.3	60.2	59.6	58.8	57.4	
2	51.2	50.7	51.0	50.9	52.1	54.4	53.4	52.6	52.4	52.6	53.8	55.3	57.4	58.8	58.9	58.2	
3 *	51.8	50.6	52.2	53.7	54.6	54.5	54.1	53.4	52.2	52.1	53.5	56.1	58.7	58.9	58.7	57.6	
4 *	54.5	54.6	54.8	54.9	54.8	54.6	54.2	53.5	52.6	52.4	53.6	55.9	59.4	60.0	59.4	58.4	
5	53.9	54.0	54.3	54.6	53.5	53.6	53.5	53.4	52.5	51.9	53.7	57.2	59.5	59.7	59.5	58.6	
6 **	37.8	35.7	38.1	37.1	46.4	49.5	55.4	56.9	58.6	58.7	57.8	59.3	62.0	64.5	61.3	58.7	
7 *	53.5	53.6	53.8	53.6	53.4	53.3	53.3	53.3	52.9	52.8	52.8	54.9	58.2	59.2	59.2	58.0	
8 *	52.6	50.7	52.4	52.3	52.6	53.1	53.3	52.9	52.4	51.9	53.4	56.4	59.4	59.9	59.9	58.9	
9	52.6	52.6	53.5	53.4	51.8	52.3	52.5	53.8	52.6	53.3	54.6	56.9	58.9	61.4	62.9	63.0	
10 **	52.7	51.9	48.3	46.6	49.3	51.7	51.9	52.0	59.4	60.4	56.4	59.7	60.6	58.4	58.3	56.7	
11	53.2	53.4	53.4	53.3	53.9	53.1	52.7	52.4	52.2	52.8	53.7	56.3	58.3	58.9	58.2	56.6	
12	51.1	51.0	51.4	53.2	53.4	53.5	53.4	53.0	52.3	52.6	53.4	55.8	57.9	58.9	57.4	55.8	
13	50.5	47.9	52.4	53.3	53.1	53.4	53.6	53.9	54.2	53.5	55.3	57.6	59.8	59.4	59.1	57.7	
14 **	54.5	54.7	50.1	53.3	48.8	51.1	53.6	56.7	57.2	54.9	59.2	60.7	61.2	61.2	59.7	57.9	
15 **	54.4	55.0	54.6	54.0	56.9	55.1	53.3	52.6	52.6	55.1	59.9	61.4	61.5	62.8	55.8	57.2	
16	58.3	52.0	51.4	52.4	53.5	53.8	54.4	56.4	55.1	54.7	55.9	59.8	61.9	60.6	59.0	57.5	
17	54.5	54.6	55.0	53.4	52.6	52.7	53.0	58.4	53.0	54.1	54.6	57.6	60.6	60.7	59.5	56.5	
18	54.2	53.9	55.1	54.1	53.5	53.2	52.5	51.4	50.6	50.4	53.5	56.5	59.4	62.2	59.5	57.6	
19 **	54.7	54.4	54.5	54.5	55.2	65.2	64.1	54.1	51.2	52.3	54.4	56.8	60.4	65.0	60.7	60.5	
20	52.3	53.8	52.6	52.6	54.2	54.6	53.7	52.4	51.4	53.4	55.4	58.6	59.3	60.7	59.9	58.4	
21	52.5	52.6	56.3	54.9	56.2	55.1	54.2	52.9	51.6	51.9	53.3	56.2	58.9	60.4	60.8	58.8	
22	53.7	54.5	55.3	53.0	53.8	56.2	54.9	55.0	55.0	53.6	53.3	55.5	56.6	58.7	58.3	57.0	
23	53.6	53.5	53.5	53.6	55.1	54.5	55.7	54.6	53.5	51.6	53.5	56.5	60.4	61.9	58.3	57.9	
24	53.7	54.3	54.1	53.5	53.4	54.1	54.0	52.3	51.3	52.1	54.4	56.6	58.9	60.4	59.8	59.0	
25 *	53.8	54.5	53.8	53.6	53.4	53.4	53.1	51.7	50.6	51.8	54.1	56.3	59.9	61.0	59.7	58.2	
26	53.5	53.8	53.8	53.5	59.1	53.4	53.8	52.9	52.3	52.5	54.8	57.5	60.9	60.5	60.2	58.7	
27	54.3	53.7	53.8	53.8	53.7	52.6	52.7	51.4	50.4	51.4	53.8	59.2	62.2	63.3	63.6	67.5	
28	53.9	53.1	51.7	53.4	53.7	53.4	50.8	50.5	50.6	51.3	54.2	57.2	59.6	61.2	60.8	59.9	
29	54.3	54.1	53.9	54.1	53.9	53.4	52.4	50.9	50.1	51.4	52.9	55.6	59.5	60.9	60.8	59.5	
30	54.7	56.3	55.1	53.6	49.3	50.6	50.6	50.3	52.7	51.9	54.3	57.7	61.0	61.4	60.6	58.3	
31	54.4	54.4	54.3	54.4	54.2	53.8	52.7	50.1	48.5	49.5	52.3	56.2	60.0	62.0	61.3	60.4	
Mean	53.1	52.7	52.9	52.8	53.2	53.8	53.7	53.2	52.7	52.9	54.5	57.2	59.8	60.7	59.7	58.6	
Mean *	53.2	52.8	53.4	53.6	53.8	53.8	53.6	53.0	52.1	52.2	53.5	55.9	59.1	59.8	59.4	58.2	
Mean **	50.8	50.3	49.1	49.1	51.3	54.5	55.7	54.5	55.8	56.3	57.5	59.6	61.1	62.4	59.2	58.2	
APRIL																	
9° + Tabular Quantities																	
1	53.7	55.2	46.4	49.6	51.3	51.4	51.4	51.8	52.2	53.2	55.4	59.9	61.7	61.6	60.8	59.0	
2	53.6	54.1	53.9	53.2	52.3	53.9	53.7	49.7	48.6	50.6	52.4	55.4	58.9	60.5	61.4	59.8	
3 **	47.8	47.7	45.1	46.5	52.3	46.9	47.4	48.6	50.4	54.6	54.6	56.8	59.8	62.5	62.4	62.1	
4 *	52.5	52.7	52.4	53.0	52.8	52.8	52.5	52.8	51.4	51.7	54.4	57.6	59.8	60.6	60.3	59.0	
5 *	53.1	52.3	50.9	51.1	53.1	52.4	51.9	50.4	49.0	50.0	53.2	55.1	57.6	58.5	59.4	58.4	
6	51.5	50.4	50.8	51.0	51.7	52.3	52.3	50.3	48.5	49.0	52.0	56.4	60.4	61.2	60.5	59.6	
7	48.7	51.2	51.2	55.4	54.1	52.6	52.1	51.3	51.0	51.7	55.0	57.2	59.5	60.6	60.2	58.1	
8	53.8	53.4	53.4	53.3	53.9	53.5	52.8	51.3	50.9	50.6	52.9	55.2	57.8	59.6	59.2	58.0	
9 **	53.5	53.4	54.4	52.9	50.1	50.1	50.5	49.6	48.4	50.2	54.4	64.0	60.7	61.7	60.7	59.4	
10	53.8	52.1	50.9	51.7	52.4	54.1	54.3	52.2	51.2	52.3	54.2	57.0	59.4	61.2	59.1	57.6	
11 **	52.2	52.0	56.4	54.6	55.8	56.2	53.6	51.3	50.1	51.2	52.3	55.1	59.3	61.7	61.6	59.7	
12	53.2	53.7	53.4	53.0	52.3	52.3	53.0	51.1	51.6	51.3	54.3	58.2	60.1	61.9	59.9	58.1	
13	54.3	54.8	54.9	54.1	53.5	52.4	51.1	49.2	47.9	48.7	52.1	56.0	60.5	62.6	62.1	60.6	
14 **	53.8	53.2	53.3	52.5	52.0	51.1	49.4	48.2	47.4	49.1	54.1	59.8	63.4	67.4	67.8	67.8	
15 **	33.5	47.9	44.3	51.9	53.3	52.0	58.7	53.4	51.1	51.8	53.4	55.8	58.4	61.5	61.0	60.3	
16	53.2	53.7	56.2	54.0	53.7	51.6	50.5	48.5	47.4	48.3	50.7	55.1	58.1	59.4	59.2	58.7	
17 *	53.0	54.0	53.5	54.3	53.2	52.4	50.4	48.6	47.8	48.3	50.3	53.8	57.8	60.6	60.5	59.4	
18 *	53.7	53.5	54.1	53.5	53.5	54.1	54.0	51.6	49.5	51.0	53.6	56.3	59.2	61.3	61.4	60.2	
19	52.4	51.7	52.4	55.2	54.3	53.4	51.5	49.3	48.5	47.1	48.3	51.6	55.7	59.4	59.8	59.4	
20	49.6	50.9	51.1	52.7	53.1	53.6	52.5	51.4	49.0	48.7	50.2	53.3	56.6	58.8	59.5	58.4	
21 *	53.6	53.6	53.4	53.4	53.2	52.8	51.3	49.2	47.8	47.7	49.3	52.3	56.1	59.2	59.2	58.0	
22	54.0	53.4	53.4	53.2	52.9	52.1	50.5	48.7	47.8	49.2	52.2	56.1	60.6	62.5	63.4	62.3	
23	53.3	53.2	53.0	52.6	51.8	51.9	50.1	48.3	47.9	49.2	51.9	55.6	59.0	59.8	60.3	59.7	
24	51.4	49.4	51.0	49.5	49.9	50.5	50.3	49.9	49.1	50.2	53.9	58.1	60.2	62.5	62.1	61.4	
25	51.4	52.0	54.6	50.6	49.6	49.9	49.9	49.1	48.5	49.9	52.6	55.2	58.5	60.6	61.5	59.6	
26	51.2	49.6	50.6	50.6	48.5	50.7	52.6	50.5	48.9	48.9	50.9	54.7	59.0	61.0	62.4	59.8	
27	54.4	54.6	53.0	54.1	52.6	51.9	49.6	48.2	47.1	49.2	50.9	54.6	59.6	61.8	61.3	60.4	
28	52.6	51.1	53.1	52.7	52.0	51.8	49.9	48.4	47.6	49.6	53.2	56.6	58.7	59.8	59.5	58.1	
29	52.4	53.0	53.6	53.1	52.2	52.1	51.7	50.4	49.2	49.3	51.2	54.2	58.0	59.8	59.2	58.0	
30	50.3	49.1	51.1	50.8	49.9	49.7	49.6	49.2	49.3	50.6	53.2	57.1	59.6	59.2	61.1	59.4	
Mean	51.9	52.2	52.2	52.5	52.4	52.1	51.6	50.1	49.2	50.1	52.6	56.1	59.1	61.0	60.9	59.7	
Mean *	53.2	53.2	52.9	53.1	53.2	52.9	52.0	50.5	49.1	49.7	52.2						

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date
9° + Tabular Quantities													
MARCH													
'	'	'	'	'	'	'	'	'	'	h m	'	h m	'
56.2	55.7	55.8	55.3	54.3	55.0	54.4	51.3	55.0	12 31	61.0	23 33	49.7	11.3
56.9	56.3	55.9	54.4	54.3	55.0	53.3	51.1	54.2	14 20	59.4	01 52	49.5	9.9
56.6	56.4	56.2	55.6	55.4	54.9	54.6	54.5	54.9	13 10	59.5	01 12	49.4	10.1
56.9	56.2	56.0	55.3	54.8	54.6	54.5	54.3	55.4	12 54	60.9	08 50	52.0	8.9
57.4	57.2	57.5	57.1	53.4	47.3	38.0	42.7	53.9	12 56	60.1	23 03	36.0	24.1
57.3	56.1	55.8	55.5	54.9	54.8	54.2	53.9	53.3	13 13	65.7	01 54	32.6†	33.1
56.9	56.7	56.8	56.6	55.2	54.6	53.1	52.6	54.9	14 28	59.8	22 31	51.6	8.2
57.9	58.3	58.8	57.5	57.2	55.0	52.7	52.4	55.1	14 29	60.5	01 14	50.2	10.3
61.9	61.7	60.1	57.6	57.2	56.1	54.5	53.8	56.2	14 03	65.4	04 12	51.5	13.9
53.5	51.5	53.0	53.6	53.7	53.9	53.8	53.6	54.2	11 52	65.7	03 36	44.8	20.9
55.1	54.9	54.8	53.3	53.6	54.4	54.3	54.1	54.5	13 57	59.7	07 46	51.6	8.1
54.6	54.3	54.6	54.6	54.6	54.8	54.4	52.8	54.1	13 42	60.1	01 02	47.5	12.6
56.6	56.1	55.6	55.0	54.9	54.2	54.6	54.3	54.8	12 58	60.5	01 32	45.8	14.7
56.3	52.2	50.6	53.0	54.9	52.6	53.1	54.2	55.1	12 58	62.7	18 06	44.5	18.2
55.6	54.6	54.8	54.4	53.6	43.2	49.5	52.7	55.0	13 41	65.1	21 30	38.4	26.7
55.5	54.4	54.7	55.3	54.7	54.6	54.5	54.5	55.6	12 12	62.7	02 40	49.2	13.5
54.2	53.4	53.8	54.2	54.0	53.7	53.8	54.4	55.1	13 00	62.4	08 42	51.2	11.2
52.8	53.7	49.0	54.4	54.7	54.4	50.3	52.9	54.2	13 34	63.0	18 15	45.5	17.5
62.4	52.3	55.8	54.5	48.7	51.9	53.3	53.8	56.3	13 35	68.8	20 27	44.2	24.6
57.2	55.8	54.8	47.1	51.0	52.7	54.2	54.4	54.6	13 53	61.4	19 51	43.5	17.9
57.7	56.8	54.3	50.7	52.9	54.1	54.1	53.7	55.0	14 56	61.3	19 14	49.5	11.8
56.7	55.7	55.3	55.3	55.1	54.8	54.3	53.9	55.2	13 46	59.2	10 11	51.6	7.6
57.1	55.6	54.5	54.3	53.4	53.4	53.7	54.3	55.2	13 10	62.8	09 36	50.4	12.4
57.2	56.4	56.0	55.8	55.1	54.4	53.2	54.1	55.2	13 35	61.2	08 30	50.5	10.7
56.9	56.3	55.8	55.7	55.1	53.8	54.4	53.2	55.0	13 49	62.1	08 26	50.2	11.9
56.8	56.7	56.3	55.8	55.6	55.7	52.9	52.2	55.3	12 54	61.9	22 56	49.1	12.8
65.6	63.3	61.7	60.7	57.8	57.0	55.5	54.4	57.2	15 07	69.9†	08 47	49.5	20.4
56.1	55.5	55.4	55.2	53.9	54.4	54.4	54.4	54.8	13 51	62.3	08 04	48.8	13.5
57.6	56.2	54.7	54.6	51.6	53.6	54.4	54.7	54.8	13 41	61.6	08 30	49.2	12.4
56.4	54.4	53.8	54.1	54.2	54.2	54.3	54.3	54.8	12 36	62.1	04 47	48.7	13.4
57.4	57.0	55.5	55.3	55.1	55.0	54.8	54.6	55.1	13 36	62.7	08 50	48.3	14.4
57.0	55.9	55.4	54.9	54.4	53.8	53.3	53.3	55.0	-	62.3	-	47.6	14.7
57.0	56.8	56.7	56.1	55.5	54.6	53.9	53.4	55.1	-	60.6	-	50.7	9.9
57.0	53.3	54.0	54.2	53.2	51.3	52.8	53.6	54.8	-	65.6	-	40.9	24.7
9° + Tabular Quantities													
APRIL													
'	'	'	'	'	'	'	'	'	'	h m	'	h m	'
57.0	55.4	54.6	54.5	52.6	52.5	53.6	54.4	54.6	12 40	62.4	02 40	45.5	16.9
59.4	57.8	55.0	49.5	51.2	48.1	49.2	49.6	53.8	14 20	62.4	21 06	47.3	15.1
60.2	57.8	55.5	54.0	54.3	52.6	52.8	52.1	53.5	14 17	63.7	03 03	43.1	20.6
57.3	55.7	54.9	54.8	54.6	54.3	54.0	53.3	54.8	13 41	60.8	00 06	49.5	11.3
56.9	56.1	55.4	55.3	54.6	54.3	54.0	53.5	54.0	14 37	59.6	08 37	48.3	11.3
58.0	57.4	58.1	57.2	53.4	47.4	50.0	48.0	53.6	13 08	62.3	23 56	43.3	19.0
56.6	55.2	54.7	54.9	55.0	55.1	54.8	54.2	54.6	13 22	60.8	00 01	43.3	17.5
56.7	55.2	54.6	55.3	55.9	55.3	54.6	54.2	54.6	14 22	59.6	09 23	49.8	9.8
57.2	56.2	55.4	54.4	55.6	54.5	54.1	53.4	54.8	11 34	66.5	08 25	46.8	19.7
56.7	55.3	52.0	55.9	55.6	55.2	53.4	52.1	54.6	13 41	62.4	02 49	48.8	13.6
57.0	47.5	53.6	54.9	55.1	55.1	54.5	53.1	54.7	12 59	62.5	17 30	36.4	26.1
56.2	52.6	53.5	54.7	54.9	51.9	53.8	53.9	54.5	13 42	63.5	07 23	49.3	14.2
59.1	57.3	56.4	56.5	56.5	55.3	55.3	55.3	55.3	14 03	63.7	08 36	47.3	16.4
62.7	58.4	53.4	45.1	48.5	42.6	36.5	35.4	53.0	15 26	70.5†	23 05	29.4	41.1
59.4	57.8	57.1	53.6	50.0	50.3	52.5	53.6	53.4	13 45	63.6	00 23	20.9†	42.7
55.9	54.0	54.4	49.6	49.2	46.4	48.4	51.2	52.8	12 45	60.4	21 42	40.4	20.0
58.1	56.5	55.0	54.2	53.8	53.5	53.5	53.4	54.0	13 58	61.4	09 02	46.7	14.7
57.8	56.6	55.5	54.8	54.3	53.7	52.6	53.1	55.0	14 00	61.5	08 26	49.1	12.4
57.5	56.6	53.6	54.6	54.1	54.2	53.7	52.7	53.6	15 00	60.2	09 10	46.7	13.5
57.2	55.7	55.1	54.0	52.5	52.9	53.3	53.6	53.5	14 16	59.9	08 27	48.1	11.8
56.8	55.6	55.2	55.2	54.4	53.3	54.2	54.1	53.7	13 58	59.6	08 50	47.2	12.4
61.2	58.7	57.0	54.9	52.9	48.6	49.9	52.5	54.5	14 43	64.2	08 14	47.3	16.9
57.4	56.0	55.0	54.2	53.3	51.4	50.1	48.4	53.5	15 00	61.4	23 29	46.3	15.1
59.0	56.0	53.2	50.7	52.2	51.7	49.9	49.0	53.4	14 06	63.3	22 59	45.6	17.7
58.0	56.1	54.4	53.5	53.5	53.6	53.6	52.4	53.7	14 05	61.7	08 18	48.1	13.6
57.5	56.6	53.7	53.5	54.1	54.4	54.2	54.3	53.7	14 10	63.5	08 52	48.3	15.2
58.5	55.7	53.5	53.3	53.2	51.8	53.1	53.5	54.0	13 54	63.1	08 27	46.0	17.1
56.4	54.9	52.2	50.6	51.4	51.6	53.0	52.2	53.2	13 57	60.1	08 38	47.2	12.9
57.1	56.2	55.6	54.6	54.1	53.3	48.8	49.8	53.6	13 48	60.1	22 33	46.4	13.7
59.3	57.5	55.4	54.7	54.0	51.1	51.1	51.3	53.5	14 21	61.4	01 16	47.9	13.5
57.9	55.9	54.8	53.8	53.5	52.2	52.1	51.9	54.0	-	62.2	-	45.0	17.2
57.4	56.1	55.2	54.9	54.3	53.8	53.7	53.5	54.3	-	60.6	-	48.2	12.4
59.3	55.5	55.0	52.4	52.7	51.0	50.1	49.5	53.9	-	65.4	-	35.3	30.0

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
9° + Tabular Quantities																	
1	50.8	52.1	51.0	49.7	46.8	48.3	47.8	47.1	47.5	49.0	52.2	57.7	61.4	60.8	59.8	58.5	
2	42.6	39.4	49.1	53.3	52.0	49.3	48.6	48.6	49.6	51.7	54.3	58.7	60.6	61.8	61.1	60.1	
3 *	53.9	54.2	54.1	54.6	53.9	52.7	51.3	50.1	49.9	51.2	52.6	55.3	58.2	59.2	59.2	58.1	
4	53.3	53.1	53.0	52.8	52.8	52.7	51.8	50.2	49.3	50.0	51.5	54.4	56.4	57.1	57.5	57.5	
5	50.3	51.3	52.1	53.6	50.5	51.3	51.5	54.4	53.1	50.3	51.6	53.3	54.3	56.7	58.2	58.2	
6 **	51.2	51.2	51.3	53.2	52.5	60.5	58.7	51.5	49.6	50.1	51.5	52.5	56.1	56.6	55.1	56.4	
7 **	53.6	56.3	53.2	52.4	50.4	51.4	52.7	55.4	53.3	52.1	51.8	54.7	56.4	57.4	57.3	55.7	
8	50.0	51.0	51.8	51.8	51.3	51.1	51.2	50.0	49.5	50.2	51.2	52.8	55.7	57.5	57.7	57.2	
9	53.3	52.8	52.6	52.7	52.9	53.4	52.4	52.5	52.5	53.3	53.0	53.0	55.6	57.2	57.1	55.0	
10	53.0	52.1	50.8	51.1	51.3	51.2	50.4	50.5	50.7	52.1	53.8	56.2	57.5	56.3	55.6	55.3	
11	52.2	50.6	48.7	49.0	50.6	49.0	49.8	49.3	49.7	52.1	53.1	54.8	56.7	56.8	57.6	58.2	
12	52.1	55.1	54.3	50.3	50.9	50.8	49.8	49.4	48.1	49.5	51.3	53.6	56.9	58.1	58.2	57.5	
13	53.7	46.5	48.6	51.9	55.2	49.8	47.3	45.7	47.4	50.5	53.3	57.2	58.2	59.6	58.7	58.1	
14	54.7	54.4	55.4	57.3	52.3	49.7	47.9	48.2	47.4	49.0	52.4	54.8	56.0	58.3	57.3	55.5	
15 *	53.2	52.8	52.4	52.0	51.5	50.3	49.4	49.2	49.5	51.1	53.0	54.5	57.1	59.3	59.7	58.5	
16 **	51.1	45.3	48.2	49.9	49.6	53.3	57.5	51.5	51.8	50.6	53.5	55.7	57.3	61.7	62.2	59.7	
17	54.3	50.6	51.8	51.7	51.3	51.2	50.2	49.2	48.8	49.3	51.3	54.4	55.7	57.8	58.5	56.8	
18 *	53.4	53.8	53.3	52.6	52.0	50.9	50.3	49.7	49.3	49.8	51.6	53.9	56.2	57.5	58.1	58.1	
19	53.5	53.5	52.2	52.0	51.7	51.5	51.1	49.6	48.8	50.6	53.1	54.4	55.8	58.8	60.5	60.4	
20	52.5	47.6	49.8	50.5	49.2	46.3	46.6	46.4	46.8	50.2	54.0	57.4	58.8	58.5	58.5	57.5	
21 *	52.0	51.4	52.1	50.8	49.6	48.7	48.7	49.4	50.5	51.9	53.7	55.6	58.1	58.3	57.7	57.0	
22	50.8	49.8	48.5	49.1	49.4	48.2	48.0	48.2	48.7	50.3	53.4	56.1	57.9	59.4	59.2	59.6	
23	52.6	52.0	52.2	52.7	54.7	51.2	50.5	50.5	51.3	52.7	54.5	55.4	56.2	56.7	58.3	56.7	
24	54.2	55.7	53.1	52.7	52.7	50.4	49.4	49.4	49.5	50.7	52.3	53.6	55.7	56.0	56.3	57.1	
25 **	50.3	49.5	48.2	47.6	52.1	57.2	57.5	52.3	51.3	50.0	51.5	53.3	57.2	60.8	60.6	60.9	
26	53.2	56.6	53.6	51.3	50.2	48.9	48.4	48.8	49.4	50.4	53.1	55.6	57.5	58.6	59.3	59.3	
27	51.5	52.0	49.7	50.1	50.1	47.4	46.7	48.1	49.9	52.0	54.7	56.8	59.5	61.3	60.5	58.2	
28	52.0	52.0	51.8	50.7	49.6	48.5	48.2	47.8	48.3	50.0	53.4	57.5	61.2	62.5	63.8	64.5	
29 *	53.3	53.2	52.3	51.8	52.8	53.1	50.3	48.4	48.2	49.9	52.3	55.5	57.3	59.2	59.8	58.9	
30	53.5	53.0	51.7	51.1	49.7	48.0	47.7	47.4	48.8	50.0	52.2	56.4	58.7	59.2	59.0	58.1	
31 **	52.5	52.5	51.2	53.3	55.6	53.3	52.0	51.1	51.4	52.8	57.4	58.7	59.1	62.1	60.5	58.2	
Mean	52.2	51.7	51.6	51.7	51.5	51.0	50.4	49.7	49.7	50.8	52.9	55.3	57.4	58.7	58.8	58.1	
Mean *	53.2	53.1	52.8	52.4	52.0	51.1	50.0	49.4	49.5	50.8	52.6	55.0	57.4	58.7	58.9	58.1	
Mean **	51.7	51.0	50.4	51.3	52.0	55.1	55.7	52.4	51.5	51.1	53.1	55.0	57.2	59.7	59.1	58.2	
JUNE																	
9° + Tabular Quantities																	
1 **	48.6	50.6	50.7	51.8	53.2	50.1	48.8	49.5	51.5	53.7	54.2	55.4	59.0	58.8	60.9	59.0	
2 **	54.2	54.7	52.3	51.2	50.8	50.2	48.6	48.5	49.2	51.2	52.7	56.2	58.3	60.2	61.1	56.9	
3	53.4	53.5	53.3	54.2	55.3	56.0	52.3	50.3	49.9	50.6	50.8	52.1	54.8	56.8	57.4	57.5	
4	52.0	52.0	52.0	54.2	54.0	52.5	51.5	50.7	49.5	50.7	53.2	54.6	55.9	58.2	58.5	58.7	
5	52.3	51.6	51.4	51.1	51.7	52.5	49.6	48.5	48.2	49.7	52.8	54.2	55.8	56.8	57.2	57.4	
6	52.0	51.7	51.8	52.9	51.3	49.3	47.8	48.6	49.7	48.6	50.0	52.2	54.2	55.3	55.4	56.2	
7	53.2	52.8	51.8	50.9	50.6	50.0	50.5	49.6	49.9	51.7	55.0	55.3	57.3	59.1	58.7	56.9	
8	53.5	54.6	52.5	51.1	48.3	47.9	48.0	47.6	49.3	52.2	54.3	56.1	56.8	57.3	56.6	55.2	
9	53.3	52.4	51.6	51.4	50.5	49.4	48.2	47.5	48.1	48.7	51.0	53.8	56.4	58.5	57.4	56.4	
10 *	53.6	54.4	52.9	52.5	51.0	49.1	48.3	48.1	48.5	50.9	54.4	56.3	57.4	57.3	57.8	56.7	
11 *	53.8	53.4	52.9	52.0	49.8	47.5	46.5	46.3	47.1	48.6	52.0	55.4	57.8	59.7	59.8	58.7	
12	53.5	53.6	53.9	54.8	54.5	54.5	49.9	47.7	46.7	47.5	51.3	55.2	58.4	59.7	60.0	57.5	
13 *	53.3	53.0	52.5	52.1	51.4	50.1	48.8	47.6	47.7	48.5	51.0	54.9	58.8	60.3	59.1	57.3	
14	53.4	52.7	52.5	51.8	50.5	49.1	47.7	47.3	47.5	49.4	51.6	54.3	56.4	58.5	59.2	58.9	
15	53.5	53.2	52.1	52.6	50.5	50.9	49.8	48.6	48.6	50.4	52.3	55.6	59.4	61.2	62.6	61.8	
16	50.8	50.4	48.7	48.9	49.1	48.0	47.4	48.0	48.2	49.0	51.3	54.7	58.3	60.3	60.9	60.4	
17	52.0	51.8	51.3	51.1	49.8	48.6	48.3	47.7	46.6	46.6	49.2	53.4	57.2	59.4	60.4	59.8	
18	49.8	50.6	50.3	50.2	49.0	48.0	47.5	46.8	47.0	47.0	51.1	54.5	58.5	61.9	63.6	63.8	
19	49.7	50.0	50.2	51.5	51.7	48.5	47.5	47.3	47.8	49.0	52.2	54.6	56.6	58.9	59.7	59.3	
20	52.5	51.7	51.7	52.7	52.3	47.7	46.0	48.0	48.4	49.5	52.0	54.3	55.5	57.0	58.3	58.2	
21 **	44.8	47.4	41.2	42.5	46.2	45.5	45.1	47.2	49.2	50.7	53.8	57.7	61.4	60.5	61.1	60.9	
22 **	44.0	45.4	44.2	51.7	47.2	47.1	45.6	45.2	48.6	51.1	52.6	55.4	57.7	59.3	61.4	62.5	
23	52.3	49.9	50.3	49.7	48.5	48.4	48.3	48.3	48.1	49.4	51.7	54.0	56.3	57.5	58.3	56.6	
24	52.1	53.0	52.0	50.7	48.6	49.0	48.8	47.4	47.8	48.3	50.3	53.2	55.3	56.8	56.8	56.1	
25	53.2	53.4	53.1	51.8	50.1	46.9	46.6	47.4	47.2	48.3	51.1	53.8	55.8	56.3	57.7	58.2	
26	51.8	51.4	51.5	51.1	50.0	49.1	48.0	48.1	48.8	50.5	53.0	55.2	57.2	58.1	59.1	58.0	
27	53.2	53.3	53.1	52.5	50.8	48.0	47.7	48.5	49.8	50.1	53.3	55.8	57.5	58.6	58.4	57.5	
28 *	53.4	53.5	53.4	53.4	52.3	51.3	48.5	47.4	47.3	48.8	53.2	57.5	59.7	60.6	60.3	58.8	
29 **	52.8	50.5	49.8	52.3	50.0	54.3	49.3	47.3	46.7	48.5	50.7	54.1	57.7	59.4	60.6	59.1	
30 *	54.0	53.5	52.4	51.1	49.8	48.5	46.7	46.7	46.8	48.4	51.9	55.3	56.9	57.9	58.3	57.8	
Mean	52.0	52.0	51.2	51.5	50.6	49.6	48.3	47.9	48.3	49.6	52.1	54.8	57.3	58.7	59.2	58.4	
Mean *	53.6	53.6	52.8	52.2	50.9	49.3	47.8	47.2	47.5	49.0	52.5	55.9	58.1	5			

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities													MAY	
'	'	'	'	'	'	'	'	'	'	h m	'	h m	'	
57.3	55.2	54.0	53.6	53.3	53.3	51.8	46.5	52.7	12 35	62.6	23 47	44.5	18.1	1
58.7	57.2	55.7	55.0	54.3	53.4	53.2	53.6	53.4	13 47	62.2	00 53	38.0†	24.2	2
57.2	55.8	55.0	54.4	54.3	54.0	53.5	53.5	54.4	14 13	59.4	07 54	49.3	10.1	3 *
57.7	57.6	56.9	54.3	52.5	51.5	46.7	46.0	53.2	16 55	58.2	23 06	41.3	16.9	4
56.5	57.6	57.8	55.5	55.3	53.6	51.6	48.9	53.6	17 03	58.8	23 22	47.4	11.4	5
56.6	56.1	55.5	55.0	52.6	50.5	53.0	53.1	53.7	05 42	65.5†	21 06	43.8	21.7	6 **
55.1	54.6	54.8	54.9	55.1	52.8	48.8	50.8	53.8	12 54	58.4	22 09	47.6	10.8	7 **
56.7	55.6	50.8	54.0	55.0	53.5	53.6	53.5	53.0	13 56	58.2	18 21	47.6	10.6	8
54.7	54.6	54.6	54.2	53.7	54.0	53.9	53.6	53.9	13 44	58.0	07 02	50.5	7.5	9
54.8	55.0	55.1	55.1	54.9	53.8	54.6	52.1	53.5	12 10	57.8	06 44	49.6	8.2	10
57.0	56.3	53.6	51.7	54.9	54.5	54.3	53.3	53.1	15 01	59.1	03 23	46.7	12.4	11
56.5	55.6	54.8	54.0	53.7	53.6	53.7	54.2	53.4	13 41	58.6	08 03	47.1	11.5	12
55.7	54.7	51.8	53.2	53.1	51.9	53.7	54.3	52.9	13 58	60.3	01 36	39.6	20.7	13
54.7	53.5	52.8	53.0	53.3	53.1	53.2	53.4	53.2	03 29	59.2	08 47	46.7	12.5	14
57.7	56.3	55.0	53.6	51.3	51.2	51.7	50.9	53.4	14 12	60.1	23 58	48.2	11.9	15 *
56.4	56.5	56.1	55.0	54.1	52.1	52.0	52.4	53.9	14 19	63.5	01 39	43.1	20.4	16 **
57.7	56.8	55.5	54.5	54.0	53.6	53.6	53.3	53.4	14 09	58.9	08 26	48.3	10.6	17
57.5	56.9	56.1	55.2	54.6	54.3	53.9	53.6	53.9	15 35	58.3	08 47	48.3	10.0	18 *
59.2	58.4	57.4	57.2	56.0	54.6	53.6	54.2	54.5	14 50	60.9	08 30	47.6	13.3	19
56.3	56.7	56.1	52.5	54.4	54.3	53.1	52.5	52.8	14 37	59.4	05 50	45.0	14.4	20
57.2	57.5	57.3	55.4	53.7	54.6	54.3	53.0	53.7	12 58	58.4	05 59	48.1	10.3	21 *
59.5	58.6	57.1	53.5	54.3	54.3	54.1	53.4	53.4	16 10	60.2	06 47	46.3	13.9	22
56.7	55.5	55.5	54.4	53.6	54.5	54.0	53.9	54.0	14 41	59.4	06 46	49.1	10.3	23
57.2	56.5	55.3	54.7	54.9	54.7	54.2	50.9	53.6	01 46	58.7	05 53	48.6	10.1	24
59.5	57.1	51.5	53.6	53.7	52.5	53.0	53.1	53.9	05 57	65.2	03 53	46.1	19.1	25 **
57.2	55.7	54.6	54.7	54.9	54.8	54.3	53.4	53.9	14 27	60.1	06 44	48.1	12.0	26
57.4	55.9	55.2	55.0	54.7	54.1	53.2	52.5	53.6	13 50	61.5	06 29	46.3	15.2	27
62.1	60.2	54.9	54.2	53.2	53.1	49.6	52.1	54.2	13 57	65.4	07 17	46.7	18.7	28
57.3	55.7	54.5	53.8	53.6	53.5	53.6	53.4	53.8	14 35	60.0	08 38	47.3	12.7	29 *
57.1	56.3	55.4	55.0	54.5	54.3	54.0	54.7	53.6	13 58	59.8	07 06	46.8	13.0	30
57.2	54.8	52.8	54.6	54.2	54.7	53.8	51.2	54.8	13 30	62.9	24 00	47.0	15.9	31 **
57.2	56.3	55.0	54.3	54.1	53.5	53.0	52.4	53.6	-	60.3	-	46.5	13.8	Mean
57.4	56.4	55.6	54.5	53.5	53.5	53.4	52.9	53.8	-	59.2	-	48.2	11.0	Mean *
57.0	55.8	54.1	54.6	53.9	52.5	52.1	52.1	54.0	-	63.1	-	45.5	17.6	Mean **
9° + Tabular Quantities													JUNE	
'	'	'	'	'	'	'	'	'	'	h m	'	h m	'	
59.3	55.7	55.0	55.0	54.8	52.9	53.5	52.3	53.9	14 14	62.7	00 10	44.5	18.2	1 **
58.3	55.7	53.5	55.3	55.2	54.8	54.4	53.8	54.1	14 47	62.8	06 50	47.1	15.7	2 **
57.4	57.1	55.5	54.5	54.0	53.5	53.0	52.0	54.0	14 32	57.9	08 46	48.6	9.3	3
57.8	56.4	55.0	53.9	53.4	53.3	53.2	52.9	53.9	13 29	59.5	08 27	48.5	11.0	4
57.3	56.6	55.7	53.6	54.0	53.8	53.6	52.7	53.3	13 44	57.5	08 34	48.5	9.0	5
57.7	59.6	55.9	53.8	55.8	53.6	52.6	53.8	52.9	17 21	60.6	06 10	47.2	13.4	6
55.5	53.2	51.3	50.7	51.6	52.8	54.7	52.5	53.2	14 25	60.1	08 20	46.4	13.7	7
55.1	54.3	53.8	54.1	51.6	53.3	53.3	53.4	52.9	13 43	58.6	07 17	46.0	12.6	8
55.1	53.7	52.8	51.6	52.4	53.2	53.3	53.6	52.5	13 31	58.8	07 51	47.1	11.7	9
55.5	53.6	53.3	53.4	53.3	53.3	53.3	53.5	53.3	14 40	57.9	07 57	47.4	10.5	10 *
56.0	54.4	53.7	53.3	53.4	53.4	53.6	53.7	53.0	13 54	60.5	07 07	45.9	14.6	11 *
56.7	55.5	54.5	54.1	53.8	53.7	53.5	53.4	53.9	14 33	60.6	09 03	46.3	14.3	12
55.4	54.4	54.3	54.3	54.4	54.3	54.4	54.4	53.4	13 06	60.3	07 32	47.3	13.0	13 *
57.7	55.5	54.3	53.8	53.7	53.8	53.6	53.3	53.2	14 51	59.4	07 36	46.6	12.8	14
59.7	58.9	56.9	54.6	54.0	54.4	54.3	53.0	54.5	14 42	63.4	08 03	47.0	16.4	15
58.0	57.1	56.0	55.0	53.5	51.4	52.8	52.3	52.9	14 06	61.1	02 55	46.3	14.8	16
57.4	55.4	54.4	53.8	53.6	51.4	51.8	51.0	52.6	14 50	60.5	09 14	45.6	14.9	17
60.3	59.8	58.6	54.2	55.3	52.5	51.8	49.6	53.4	14 58	64.6	08 52	46.1	18.5	18
57.6	55.7	54.6	54.0	52.0	50.1	50.5	51.6	52.5	14 30	60.1	07 04	46.4	13.7	19
57.9	57.4	56.8	56.2	54.8	55.0	54.0	49.1	53.2	14 36	58.5	06 18	44.6	13.9	20
61.9	59.4	56.1	56.0	52.3	50.1	50.1	50.2	52.1	14 48	63.3	02 49	36.9†	26.4	21 **
60.8	56.9	46.4	54.5	55.0	53.1	53.1	53.8	52.2	15 23	64.8†	00 51	37.1	27.7	22 **
56.8	55.5	56.1	54.8	54.1	53.5	53.4	51.6	52.6	14 31	58.6	08 03	47.2	11.4	23
55.4	54.7	54.1	53.4	53.4	53.7	53.3	53.7	52.4	13 47	57.4	07 44	47.0	10.4	24
58.6	57.5	56.0	55.8	55.3	55.1	50.8	51.5	53.0	16 19	59.1	05 54	45.5	13.6	25
56.2	54.3	54.2	54.3	54.2	54.0	53.8	53.7	53.2	14 42	60.5	06 47	47.5	13.0	26
55.9	54.4	53.4	52.5	52.6	53.2	53.0	53.0	53.2	13 40	59.3	05 52	46.5	12.8	27
56.7	55.0	54.0	53.4	53.4	53.4	53.0	53.1	53.8	14 08	60.7	07 50	46.3	14.4	28 *
57.8	55.2	51.7	50.7	51.4	52.0	52.0	51.8	52.7	14 44	61.0	08 03	44.7	16.3	29 **
55.9	54.2	53.1	52.3	52.4	52.4	52.5	52.5	52.6	14 34	58.5	06 55	46.1	12.4	30 *
57.4	55.9	54.4	53.9	53.6	53.2	53.0	52.6	53.2	-	60.3	-	45.9	14.3	Mean
55.9	54.3	53.7	53.3	53.4	53.4	53.4	53.4	53.2	-	59.6	-	46.6	13.0	Mean *
59.6	56.6	52.5	54.3	53.7	52.6	52.6	52.4	53.0	-	62.9	-	42.1	20.9	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	
JULY																		
9° + Tabular Quantities																		
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1	52.6	52.5	53.6	50.7	48.6	46.5	46.7	48.4	47.3	47.1	51.1	54.0	56.4	58.2	59.1	59.8	59.8	59.8
2	52.2	52.2	52.4	51.8	51.0	49.2	48.4	47.7	47.1	46.0	48.8	52.0	55.4	57.8	59.5	59.8	59.8	59.8
3	52.1	52.4	52.2	51.8	51.0	50.3	50.8	50.3	49.4	48.6	51.7	55.2	57.2	57.3	59.1	60.4	60.4	60.4
4	51.4	50.6	51.3	51.7	51.2	49.3	46.5	45.3	46.3	48.8	51.7	55.2	58.2	60.9	61.5	59.8	59.8	59.8
5 **	49.0	52.7	51.5	46.8	54.4	48.4	50.0	49.0	49.0	49.0	51.1	53.8	54.8	56.5	59.1	57.5	57.5	57.5
6	54.3	52.4	52.1	54.4	49.6	47.0	47.0	46.3	46.1	46.6	48.8	51.4	52.4	53.6	55.1	55.5	55.5	55.5
7	50.4	49.7	51.4	50.3	48.6	48.3	48.0	48.2	47.3	48.1	51.4	54.4	56.9	57.7	57.2	55.9	55.9	55.9
8	53.4	52.5	53.1	52.1	49.4	47.2	47.1	47.8	48.5	50.3	51.1	53.7	56.1	56.5	57.7	57.7	57.7	57.7
9	51.7	51.7	51.7	52.4	53.6	53.7	50.2	49.7	47.6	49.2	52.0	54.4	55.8	57.4	58.2	57.3	57.3	57.3
10	53.4	52.6	51.3	50.8	55.4	51.7	52.0	50.4	48.3	48.0	50.3	54.7	56.3	57.8	58.8	58.8	58.8	58.8
11 *	52.5	53.3	54.9	52.0	51.7	47.9	47.4	47.0	46.2	46.8	49.4	53.5	56.5	57.8	58.4	57.5	57.5	57.5
12 *	50.8	51.4	51.5	51.2	49.8	48.8	48.8	50.4	49.2	50.3	51.5	55.2	58.6	60.2	61.2	59.8	59.8	59.8
13 **	52.8	52.2	52.0	51.4	49.7	47.1	45.2	45.0	45.3	45.9	49.8	52.5	56.1	66.2	65.5	70.8	70.8	70.8
14 **	49.0	52.0	48.7	47.3	46.8	45.5	44.0	44.3	43.4	46.1	46.3	48.2	53.0	53.8	55.1	56.8	56.8	56.8
15	52.7	52.5	52.7	53.7	53.4	55.2	52.3	51.7	50.7	51.2	53.5	56.3	58.8	60.8	58.5	58.6	58.6	58.6
16	43.2	51.7	48.4	49.0	47.1	47.3	45.5	44.3	45.0	46.9	50.3	53.6	56.5	57.8	58.9	58.3	58.3	58.3
17	51.7	49.2	49.4	49.5	50.0	48.5	46.8	45.5	45.2	45.1	48.3	52.7	56.2	59.6	58.9	58.7	58.7	58.7
18 **	48.7	44.0	45.3	51.0	49.3	57.0	58.1	45.1	42.4	44.5	47.0	55.0	56.7	59.4	62.9	59.8	59.8	59.8
19	47.3	46.3	43.7	41.5	45.9	46.2	45.8	45.7	46.2	47.0	49.2	51.8	53.8	55.7	56.8	57.3	57.3	57.3
20	51.5	51.3	50.7	51.0	50.5	48.3	48.7	50.0	48.0	49.0	51.2	53.8	55.8	57.4	59.2	58.7	58.7	58.7
21	49.6	49.5	41.3	42.3	53.6	53.7	51.4	50.1	53.2	52.0	52.1	53.4	56.4	57.5	58.3	57.8	57.8	57.8
22	52.6	51.5	51.5	50.4	48.8	47.4	48.4	49.6	51.0	51.3	49.8	51.5	54.0	56.3	56.7	55.3	55.3	55.3
23	50.9	50.4	50.8	51.0	50.3	48.3	46.3	45.6	47.0	49.5	52.8	55.2	58.4	60.9	62.1	60.3	60.3	60.3
24	49.0	48.4	48.2	48.0	50.8	52.3	49.6	46.6	47.7	48.8	51.5	53.5	55.5	56.7	55.8	54.7	54.7	54.7
25	51.8	54.1	55.7	48.5	47.4	46.8	48.2	48.2	48.7	51.0	53.5	54.1	57.1	57.8	60.0	59.6	59.6	59.6
26	54.8	49.7	49.7	54.6	50.0	47.4	46.8	46.0	45.8	48.7	51.7	53.8	56.1	57.4	56.4	55.7	55.7	55.7
27 **	48.5	52.0	50.4	48.6	47.2	48.9	47.6	48.3	41.0	46.2	58.4	61.9	62.3	62.5	57.7	54.3	54.3	54.3
28	50.1	54.3	51.9	51.2	48.6	46.3	46.1	43.6	45.0	46.0	48.4	51.8	55.6	57.2	57.3	55.4	55.4	55.4
29 *	52.1	51.5	51.3	51.0	51.3	49.5	49.1	47.4	48.2	49.7	51.5	53.5	55.5	58.8	59.6	59.1	59.1	59.1
30 *	51.0	49.2	49.3	48.5	49.1	47.3	47.2	48.2	47.5	48.4	51.6	54.0	55.7	57.3	58.3	58.1	58.1	58.1
31 *	51.5	51.5	51.5	51.4	51.2	49.8	49.1	48.3	47.7	48.5	49.7	52.2	55.4	58.0	58.6	58.4	58.4	58.4
Mean	51.1	51.1	50.6	50.2	50.2	49.1	48.4	47.5	47.1	48.2	50.8	53.8	56.2	58.2	58.8	58.3	58.3	58.3
Mean *	51.6	51.4	51.7	50.8	50.6	48.7	48.3	48.3	47.8	48.7	50.7	53.7	56.3	58.4	59.2	58.6	58.6	58.6
Mean **	49.6	50.6	49.6	49.0	49.5	49.4	49.0	46.3	44.2	46.3	50.5	54.3	56.6	59.7	60.1	59.8	59.8	59.8
AUGUST																		
9° + Tabular Quantities																		
	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
1	51.8	52.2	54.3	49.9	49.5	47.9	47.6	48.4	48.4	49.5	50.8	53.2	55.4	57.4	58.5	57.9	57.9	57.9
2 **	49.7	43.1	44.4	42.7	48.8	57.8	53.3	52.8	54.5	52.2	52.4	55.1	56.6	57.1	58.0	59.5	59.5	59.5
3	51.7	50.8	51.8	53.5	54.5	51.8	49.6	48.5	49.9	49.8	50.3	52.6	55.7	54.7	55.2	56.6	56.6	56.6
4 **	51.9	53.2	46.2	46.4	47.5	46.8	48.2	47.9	48.4	49.5	51.4	52.6	54.9	57.3	56.6	54.8	54.8	54.8
5	52.3	52.1	52.3	51.5	51.5	51.2	49.5	47.8	48.4	50.9	55.0	55.8	56.9	56.6	56.4	55.3	55.3	55.3
6	49.4	50.9	50.7	50.3	49.5	49.2	48.6	49.0	49.8	50.7	53.7	55.8	57.0	57.7	55.8	54.7	54.7	54.7
7 *	51.8	51.4	51.3	51.3	50.7	49.5	48.6	48.6	48.3	49.2	51.1	53.8	56.5	58.0	57.9	56.7	56.7	56.7
8	52.4	51.8	51.1	51.1	50.4	48.5	50.1	49.5	48.2	48.3	53.3	54.9	55.8	57.6	56.8	56.4	56.4	56.4
9 *	52.4	52.1	52.1	51.1	49.4	46.7	47.1	46.8	46.6	48.1	50.8	54.6	57.8	58.6	58.0	57.0	57.0	57.0
10	52.4	52.3	50.3	48.6	49.5	50.9	49.8	49.2	50.6	52.4	54.5	57.0	59.3	61.5	62.0	60.0	60.0	60.0
11 **	52.5	50.6	46.9	52.6	51.7	46.4	45.2	45.4	48.1	51.4	53.7	55.8	59.3	61.7	62.2	61.7	61.7	61.7
12	50.5	51.2	50.6	50.6	50.0	47.5	45.6	45.9	47.2	50.4	53.8	56.0	57.6	58.7	59.0	58.2	58.2	58.2
13 *	51.1	51.6	49.5	49.2	48.7	47.4	46.2	45.5	46.4	48.3	50.7	53.8	57.2	59.5	59.7	58.6	58.6	58.6
14	50.9	50.7	50.9	50.8	50.4	48.9	46.3	44.5	45.6	47.5	51.7	57.3	61.7	63.3	62.6	62.0	62.0	62.0
15	51.7	51.6	51.5	50.9	50.4	47.9	48.0	46.8	46.4	46.6	50.9	55.7	59.0	60.2	59.4	58.8	58.8	58.8
16	54.8	52.4	52.2	51.6	52.7	50.2	47.7	46.7	47.5	49.2	51.3	53.9	56.2	58.6	59.6	58.8	58.8	58.8
17	50.0	50.5	50.9	50.7	50.2	48.8	47.9	47.8	48.6	50.1	53.8	57.1	59.0	60.5	60.4	58.7	58.7	58.7
18	51.6	51.5	51.1	51.2	50.9	49.9	48.9	48.3	47.8	49.9	53.2	55.6	57.9	59.6	58.7	58.1	58.1	58.1
19	52.3	52.7	52.8	52.0	53.5	51.5	49.6	50.8	49.8	50.8	53.2	55.7	56.4	56.5	56.5	55.1	55.1	55.1
20	51.1	51.1	50.9	50.8	50.1	49.7	48.8	48.7	48.8	49.1	51.4	54.6	57.7	58.6	57.9	57.9	57.9	57.9
21	52.4	52.4	51.7	51.1	50.5	49.2	48.0	47.7	47.8	48.7	51.9	53.8	55.6	57.5	57.6	56.0	56.0	56.0
22 *	52.2	51.9	51.3	50.5	49.6	48.6	48.0	47.8	48.9	50.8	54.1	57.2	59.1	59.7	58.1	55.7	55.7	55.7
23 *	51.9	51.5	50.9	50.0	49.1	48.6	47.0	47.5	48.3	50.0	53.6	56.4	58.8	59.7	57.9	56.2	56.2	56.2
24	52.8	52.2	51.9	50.9	50.6	49.6	48.1	47.4	47.8	49.5	52.9	56.0	58.3	59.1	58.7	56.5	56.5	56.5
25	51.2	51.3	50.3	50.4	49.2	47.7	47.7	47.4	48.2	50.5	54.7	57.6	60.1	62.8	59.8	55.6	55.6	55.6
26	51.7	52.4	50.9	52.2	51.6	49.8	47.7	48.0	49.5									

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														
JULY														
58.9	56.8	54.2	52.7	52.2	52.2	52.3	52.7	52.7	15 12	59.7	06 02	45.4	14.3	1
59.5	58.1	56.3	56.5	54.8	53.8	53.8	53.1	53.2	14 48	60.5	09 33	45.1	15.4	2
60.1	57.9	57.1	55.5	54.7	53.6	53.1	52.4	53.9	16 02	60.6	07 53	47.4	13.2	3
58.5	56.2	55.8	55.5	55.7	52.6	46.5	45.9	52.8	13 57	62.4	22 51	40.4	22.0	4
55.0	54.7	54.2	53.7	53.4	52.7	54.4	51.5	52.6	02 02	61.8	07 55	44.6	17.2	5 **
53.4	52.9	53.6	54.7	54.8	54.5	53.7	52.5	51.8	15 21	56.4	07 28	45.1	11.3	6
54.3	53.8	54.0	53.3	52.7	54.2	54.3	53.5	52.2	13 17	58.5	08 13	46.1	12.4	7
55.6	54.5	53.7	52.7	53.3	53.4	53.3	52.2	52.6	15 18	58.6	05 51	46.1	12.5	8
54.0	52.3	53.3	53.2	53.3	53.4	53.7	53.4	53.1	14 27	58.5	08 25	47.2	11.3	9
57.4	55.0	53.4	52.5	53.2	51.0	51.5	52.2	53.2	15 27	60.2	08 24	47.2	13.0	10
56.8	55.4	53.3	52.5	53.5	54.3	53.8	52.8	52.7	14 26	58.5	08 54	45.5	13.0	11 *
56.9	54.7	53.0	52.7	53.0	53.3	53.6	53.2	53.3	14 27	61.6	06 08	47.5	14.1	12 *
64.6	60.9	57.4	45.1	53.1	52.3	50.3	52.5	53.5	15 33	74.8†	19 28	31.5†	43.3	13 **
55.3	53.2	47.5	49.5	50.4	51.3	52.2	52.7	49.7	15 17	60.6	09 47	34.2	26.4	14 **
57.1	54.7	53.4	52.2	51.4	48.1	46.1	44.4	53.3	14 02	62.4	23 29	43.2	19.2	15
58.2	57.3	53.0	51.7	52.0	52.7	52.6	52.3	51.4	14 34	60.3	00 12	41.2	19.1	16
56.8	56.0	57.4	56.5	46.3	48.3	48.9	46.5	51.3	13 58	60.6	21 07	33.9	26.7	17
54.5	55.7	52.3	51.3	50.3	52.6	50.1	47.0	51.7	14 24	65.7	08 00	40.8	24.9	18 **
56.2	54.3	52.6	52.3	52.4	52.0	51.9	51.9	50.2	15 00	57.5	03 14	36.5	21.0	19
58.7	57.7	56.8	55.7	53.2	53.9	48.7	51.2	53.0	15 55	59.7	22 34	43.9	15.8	20
57.8	56.7	53.5	53.4	55.0	54.3	54.4	54.0	53.0	16 22	59.3	02 47	38.2	21.1	21
55.0	54.4	53.1	52.7	52.7	52.7	52.7	51.6	52.1	13 38	57.0	05 32	46.4	10.6	22
58.5	57.3	54.5	54.2	54.0	53.0	52.0	50.6	53.1	14 42	62.8	07 05	44.7	18.1	23
53.8	52.7	52.0	52.3	52.7	52.3	52.8	52.2	51.6	14 02	57.5	07 36	44.4	13.1	24
57.9	56.0	54.3	53.5	53.4	53.2	52.5	52.7	53.2	15 24	60.5	05 10	45.4	15.1	25
53.9	52.6	52.1	52.5	54.8	50.8	49.9	50.8	51.8	13 32	57.6	08 20	45.1	12.5	26
54.0	51.8	46.5	48.1	51.5	46.6	46.7	50.2	51.3	11 01	66.8	21 34	34.8	32.0	27 **
52.7	51.4	51.8	51.4	46.4	48.7	51.2	52.0	50.6	01 43	59.6	20 24	42.5	17.1	28
57.6	55.9	54.4	53.3	52.4	52.7	52.3	51.2	52.9	14 55	60.4	07 32	46.4	14.0	29 *
57.2	55.4	53.0	50.1	48.4	49.5	51.6	52.1	51.6	15 04	58.9	08 25	46.4	12.5	30 *
56.3	54.6	53.5	50.8	52.4	52.1	51.6	52.1	52.3	13 54	59.4	08 28	47.4	12.0	31 *
56.7	55.2	53.6	52.6	52.5	52.1	51.7	51.4	52.3	-	60.6	-	43.0	17.6	Mean
57.0	55.2	53.4	51.9	51.9	52.4	52.6	52.3	52.6	-	59.8	-	46.6	13.1	Mean *
56.7	55.3	51.6	49.5	51.7	51.1	50.7	50.8	51.7	-	65.9	-	37.2	28.8	Mean **
9° + Tabular Quantities														
AUGUST														
57.0	55.4	54.4	54.4	53.8	52.4	53.3	52.5	52.7	14 45	58.6	06 22	47.2	11.4	1
55.1	55.4	55.4	52.9	51.4	53.7	53.1	52.0	52.8	05 50	60.7	03 25	41.5	19.2	2 **
55.5	55.4	51.6	51.0	52.2	48.8	51.7	51.1	52.3	15 09	57.4	07 04	46.4	11.0	3
53.6	53.1	52.8	52.5	50.6	50.6	51.5	52.4	51.3	01 05	59.6	03 01	45.2	14.4	4 **
54.5	53.2	53.1	51.6	52.0	52.9	53.5	50.7	52.7	12 46	57.8	07 59	46.6	11.2	5
53.5	51.8	51.5	52.2	52.3	52.6	51.4	51.5	52.1	13 06	58.8	05 47	48.3	10.5	6
55.8	54.5	52.8	52.4	53.1	52.9	52.3	51.6	52.5	14 14	58.5	07 20	47.5	11.0	7 *
56.7	55.8	54.1	51.1	51.6	53.4	53.2	52.8	52.7	13 36	58.8	08 07	46.0	12.8	8
56.5	55.2	53.6	53.1	53.4	53.4	53.3	52.8	52.5	13 30	58.9	05 24	45.9	13.0	9 *
57.7	55.2	53.8	53.1	53.2	53.5	52.9	52.5	53.8	14 02	63.5	07 03	48.4	15.1	10
60.8	58.5	54.1	54.3	50.5	50.0	53.0	50.8	53.2	14 15	63.5	06 44	44.6	18.9	11 **
56.5	55.7	54.6	54.5	53.2	53.4	51.5	50.5	52.6	14 49	59.3	06 14	45.5	13.8	12
56.5	54.4	53.0	52.8	52.5	52.5	52.1	51.4	52.0	14 05	59.9	07 09	44.9	15.0	13 *
60.9	56.5	54.6	53.9	53.2	52.6	52.3	51.8	53.4	13 58	64.5†	07 59	44.4	20.1	14
56.8	55.2	52.7	50.9	52.7	52.6	52.4	52.7	52.6	14 05	60.9	07 38	45.5	15.4	15
56.3	54.8	53.7	53.8	53.6	52.9	51.8	50.7	53.0	14 50	59.9	07 40	46.5	13.4	16
57.3	56.9	55.5	53.8	52.4	51.4	52.5	51.9	53.2	14 16	60.9	06 56	47.2	13.7	17
56.7	54.7	53.6	53.5	53.5	52.8	52.9	52.3	53.1	13 07	59.9	08 20	47.6	12.3	18
53.9	53.4	52.7	52.8	52.9	52.7	52.7	51.5	53.0	14 16	57.2	05 56	48.6	8.6	19
56.5	54.7	52.6	52.9	52.1	53.6	53.2	52.6	52.7	14 04	59.2	08 00	48.1	11.1	20
54.1	52.7	51.9	52.5	53.2	53.1	53.0	52.8	52.3	14 15	57.9	07 32	47.2	10.7	21
54.0	52.9	52.7	53.2	53.5	53.7	53.7	52.3	52.9	13 20	60.0	06 37	47.3	12.7	22 *
54.1	52.8	52.1	52.9	53.1	51.7	52.0	52.9	52.5	13 33	59.9	06 18	46.8	13.1	23 *
55.2	54.2	54.0	55.1	54.9	53.9	51.8	51.7	53.0	13 29	59.5	07 58	46.8	12.7	24
54.2	53.1	53.3	53.9	53.2	52.5	51.9	51.9	52.9	13 22	63.2	07 31	45.9	17.3	25
55.7	54.3	53.9	54.5	52.0	51.1	49.4	47.5	53.2	13 27	60.9	23 54	45.0	15.9	26
54.7	52.9	52.8	52.9	51.2	52.4	51.9	51.7	52.7	13 22	61.7	00 38	45.8	15.9	27
55.1	53.8	53.1	52.9	52.2	52.0	51.3	51.8	52.7	13 18	61.6	08 09	45.9	15.7	28
55.0	55.3	48.1	44.2	47.9	52.1	52.8	46.6	51.5	13 42	58.7	23 55	40.8	17.9	29
57.5	53.1	52.4	52.9	51.6	46.9	45.6	46.1	51.9	15 32	64.0	00 17	40.5†	23.5	30 **
54.8	48.7	48.0	51.7	51.1	51.4	47.8	51.7	52.3	03 48	60.9	00 06	44.1	16.8	31 **
55.9	54.3	53.0	52.7	52.4	52.2	52.0	51.4	52.7	-	60.2	-	45.9	14.3	Mean
55.4	54.0	52.8	52.9	53.1	52.8	52.7	52.2	52.5	-	59.4	-	46.5	13.0	Mean *
56.4	53.8	52.5	52.9	51.0	50.5	50.2	50.6	52.3	-	61.7	-	43.2	18.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>SEPTEMBER</b>																	
<i>g</i> <sup>o</sup> + Tabular Quantities																	
1 **	52.6	49.1	49.8	50.7	49.7	50.5	53.7	53.0	51.9	54.1	54.9	53.8	56.3	58.2	57.6	55.7	
2	49.5	49.5	50.1	50.7	50.7	49.0	48.2	48.2	48.7	51.1	53.9	56.6	58.3	58.0	57.3	54.4	
3	51.5	50.3	50.0	50.0	50.6	52.7	50.7	50.6	49.7	51.4	54.4	56.9	59.8	59.0	56.6	54.6	
4	51.6	51.0	50.8	50.8	50.3	50.1	49.1	48.7	49.6	51.8	54.6	56.3	57.2	56.4	55.0	52.9	
5	50.8	53.8	47.8	47.4	49.2	48.5	47.8	47.7	47.9	49.8	52.6	54.7	56.7	58.2	57.9	55.8	
6	51.9	52.0	52.2	51.2	50.9	49.1	48.0	48.0	48.3	49.8	52.6	55.6	58.8	59.1	58.1	55.8	
7 *	52.1	51.4	50.7	50.1	49.6	49.1	48.2	47.4	47.9	49.9	53.4	56.4	58.3	58.2	57.0	55.2	
8 *	52.2	51.9	51.5	51.0	50.5	50.0	49.5	48.8	48.8	51.4	54.6	57.2	58.3	58.3	56.7	55.4	
9	52.1	51.5	50.5	49.0	48.7	47.4	46.0	49.8	49.7	53.5	58.7	61.1	61.9	60.9	57.9	54.6	
10	49.1	50.4	51.8	49.9	49.6	49.1	48.1	47.3	47.7	50.1	54.4	57.4	58.8	58.8	57.6	55.4	
11	51.7	51.3	51.0	50.5	49.9	49.9	49.0	47.6	46.9	49.0	52.8	58.8	61.7	60.5	58.8	55.3	
12	49.8	50.8	48.8	48.6	47.0	52.0	49.9	51.8	48.5	50.3	54.3	57.7	60.1	59.5	57.6	55.6	
13	49.5	50.0	49.3	48.3	46.7	46.1	45.7	45.6	46.4	48.8	52.5	55.5	57.7	58.2	57.7	56.0	
14 **	50.9	50.7	48.5	48.3	49.3	52.5	50.0	49.8	52.2	53.3	54.4	58.2	62.0	61.3	56.7	54.6	
15	49.5	49.8	50.0	50.6	49.8	49.6	48.1	47.5	47.9	50.8	53.6	57.0	58.9	57.6	56.3	55.5	
16	51.6	50.1	50.0	49.9	49.9	49.9	49.6	48.5	48.5	49.3	52.0	56.4	58.9	59.2	57.2	55.3	
17	51.8	49.1	45.5	44.8	48.3	49.5	49.4	48.8	48.0	47.8	50.0	53.3	55.6	56.0	55.0	53.4	
18	50.8	50.3	50.6	50.8	48.3	49.6	49.8	49.0	48.8	48.8	50.0	52.4	55.0	56.4	57.3	56.4	
19 *	50.9	50.9	50.8	50.3	49.9	50.0	50.0	49.4	48.7	48.9	50.8	53.3	54.7	56.0	55.2	54.3	
20	50.1	48.3	48.1	47.1	47.1	47.0	49.1	51.0	51.7	52.3	53.3	54.6	56.4	56.1	56.0	56.5	
21 *	51.5	51.0	50.6	50.3	50.1	50.0	49.4	48.5	47.7	47.6	49.7	50.7	52.9	53.9	54.7	54.6	
22	51.6	51.2	50.8	50.6	50.5	50.1	49.6	48.7	47.9	49.3	52.6	55.6	58.0	58.5	57.3	56.4	
23 *	52.2	51.6	51.4	50.9	50.5	50.0	48.8	47.7	47.4	49.5	52.9	56.0	57.4	57.3	56.4	54.7	
24 **	51.9	52.0	52.0	51.9	51.5	51.0	50.1	48.7	47.7	51.9	55.3	58.9	58.2	62.2	64.2	60.6	
25 **	51.4	49.7	49.8	54.7	49.3	47.3	51.1	50.0	51.3	51.6	54.6	56.8	57.4	56.8	57.1	53.7	
26	51.6	54.1	52.8	49.5	50.1	50.3	50.1	49.2	48.6	49.6	53.0	56.1	57.7	57.6	55.7	52.6	
27	47.8	49.5	49.9	50.0	53.8	54.6	53.1	53.3	53.4	51.6	53.8	57.3	56.8	58.5	57.9	56.1	
28	50.8	50.7	51.0	50.9	50.8	50.5	49.5	48.0	47.0	47.4	49.3	52.0	54.5	55.9	55.9	55.1	
29	50.2	49.7	49.8	50.6	51.7	51.7	50.9	49.7	48.6	49.7	52.0	55.0	56.1	55.8	56.0	55.7	
30 **	51.1	51.1	51.0	50.6	51.7	49.5	50.3	49.8	48.8	48.6	50.0	53.9	56.3	58.2	57.1	56.0	
Mean	51.0	50.8	50.2	50.0	49.9	49.9	49.4	49.1	48.9	50.3	53.0	55.9	57.7	58.0	57.1	55.3	
Mean *	51.8	51.4	51.0	50.5	50.1	49.8	49.2	48.4	48.1	49.5	52.3	54.7	56.3	56.7	56.0	54.8	
Mean **	51.6	50.5	50.2	51.2	50.3	50.2	51.0	50.3	50.4	51.9	53.8	56.3	58.0	59.3	58.5	56.1	
<b>OCTOBER</b>																	
<i>g</i> <sup>o</sup> + Tabular Quantities																	
1 **	34.8	34.5	34.9	34.3	42.1	51.0	55.7	54.9	52.4	50.9	51.4	54.5	57.4	55.0	53.8	52.8	
2	50.1	49.8	49.9	50.0	50.1	50.3	50.1	48.9	47.0	46.5	48.3	51.0	53.4	54.6	54.6	52.7	
3	50.8	50.6	50.6	50.3	50.3	50.0	49.6	48.0	46.6	46.6	48.6	51.8	55.0	55.3	54.7	53.7	
4	50.3	49.8	49.6	49.1	48.4	49.0	49.5	49.1	48.4	48.7	51.0	54.5	56.6	57.5	56.1	54.0	
5	49.5	50.7	50.8	50.5	50.3	50.0	49.5	48.5	47.7	49.0	51.0	54.8	57.5	57.9	57.5	55.8	
6	51.1	50.6	50.7	50.1	49.9	49.4	49.4	48.8	48.1	48.6	51.1	53.5	55.2	55.8	56.0	55.1	
7	49.7	52.9	51.5	47.8	47.1	47.4	47.7	47.0	46.3	47.4	50.4	55.1	56.9	57.6	56.3	53.9	
8	51.2	50.9	50.8	50.8	50.6	49.8	50.4	51.5	49.7	49.1	50.6	53.5	56.1	57.8	56.9	55.1	
9	51.1	51.4	51.7	50.9	51.5	50.7	50.6	49.3	48.2	47.7	49.5	53.2	56.0	57.5	56.1	54.3	
10 *	51.3	51.4	51.6	51.6	51.0	50.6	49.9	48.6	47.5	47.8	49.7	52.8	55.4	56.3	56.5	55.1	
11	51.1	50.2	50.8	50.7	50.7	50.3	50.0	48.6	47.3	48.7	52.9	56.8	57.5	57.1	58.2	56.7	
12	46.7	47.4	46.3	46.7	47.8	49.3	51.0	49.6	48.7	49.3	51.0	54.3	56.3	58.8	58.5	58.9	
13	43.9	44.9	47.5	48.5	53.3	52.4	51.0	50.1	50.5	49.6	48.7	52.1	55.0	56.2	55.7	54.3	
14	46.3	46.6	49.5	49.7	50.4	50.3	50.2	50.6	49.5	48.8	50.1	53.4	55.5	56.1	56.0	54.8	
15 *	50.3	50.7	50.9	51.0	50.9	50.8	50.6	49.7	48.6	48.6	50.0	52.9	56.1	57.0	56.2	54.9	
16 *	50.7	50.6	50.6	50.7	50.8	50.6	50.3	49.4	47.8	47.5	48.9	51.5	54.5	56.4	56.2	54.3	
17 *	50.6	50.6	50.6	50.8	51.0	50.9	50.8	49.8	48.1	47.4	48.4	51.8	55.1	56.0	55.5	54.1	
18 *	51.4	51.3	51.2	51.0	51.1	51.1	51.0	50.1	48.6	47.8	48.7	51.7	54.6	56.0	55.6	54.8	
19	50.8	50.7	50.1	47.9	48.5	48.9	49.8	49.9	48.9	49.0	50.7	52.8	54.2	55.1	55.0	54.2	
20	50.6	36.6	40.0	42.0	42.6	43.9	45.7	48.0	47.1	48.0	50.6	53.0	54.8	55.0	54.1	52.8	
21	50.5	50.7	49.9	50.5	50.6	50.9	50.6	49.5	48.4	47.9	50.1	53.5	55.8	56.6	55.0	54.2	
22	48.7	49.7	49.7	49.8	50.7	50.3	50.1	49.0	48.3	48.4	49.8	52.7	56.1	56.7	56.5	54.0	
23	51.0	51.4	51.4	51.4	51.0	50.6	49.9	48.8	48.1	48.6	51.1	54.1	55.8	56.3	55.7	54.6	
24	52.1	51.8	51.8	51.4	51.6	51.8	51.1	50.1	49.4	50.6	52.3	55.9	57.2	57.1	56.1	54.7	
25	50.8	50.8	51.3	51.6	51.2	50.8	50.1	49.3	48.3	48.8	50.6	54.7	57.6	57.8	58.2	57.8	
26 **	50.3	50.6	52.4	52.0	50.7	54.3	51.8	51.0	51.0	53.1	56.0	60.4	62.9	61.9	59.7	59.1	
27 **	47.8	48.7	47.5	53.0	49.7	52.3	51.2	51.1	49.2	49.4	50.0	52.6	54.6	55.5	55.1	53.6	
28 **	46.5	48.0	49.4	49.1	51.1	50.7	50.3	49.5	49.6	55.1	53.9	57.1	61.4	64.6	71.2	69.9	
29 **	49.6	58.8	64.5	59.9	58.6	54.8	57.8	54.5	49.4	47.6	48.5	49.5	51.4	52.5	52.7	52.6	
30	49.5	49.6	49.9	50.3	50.5	50.4	50.1	49.5	48.7	48.0	47.8	49.1	53.8	55.3	54.7	53.2	
31	49.7	49.7	49.6	50.3	50.3	50.4	51.2	50.1	48.8	48.4	49.2	52.1	54.0	54.7	54.4	53.4	
Mean	49.3	49.4	49.9	49.8	50.1	50.5	50.5	49.8	48.6	48.8	50.4	53.4	55.9	56.7	56.4	55.1	
Mean *	50.9	50.9	51.0	51.0	51.0	50.8	50.5	49.5	48.1	47.8	49.1	52.1	55.1	56.3	56.0	54.6	
Mean **	45.8	48.1	49.7	49.7	50.4	52.6	53.4	52.2	50.3	51.2	52.0	54.8	57.5	57.9	58.5	57.6	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
9° + Tabular Quantities														SEPTEMBER
'	'	'	'	'	'	'	'	'	'	h m	'	h m	'	
53.1	54.2	46.7	45.4	47.9	47.7	46.7	47.8	51.7	13 03	58.9	18 52	39.6	19.3	1 **
53.2	52.9	51.6	51.3	50.8	52.4	51.0	51.0	52.0	12 30	59.0	06 26	47.1	11.9	2
52.9	52.4	51.9	52.4	53.0	52.4	52.4	52.0	52.8	12 36	60.7	08 28	48.8	11.9	3
51.9	51.9	52.5	52.9	52.9	51.3	50.8	50.4	52.1	12 40	57.9	06 54	47.9	10.0	4
53.4	51.8	51.6	51.2	48.2	48.1	50.1	51.4	51.4	14 18	58.9	20 54	43.3	15.6	5
53.9	53.0	52.6	52.2	52.1	51.9	52.0	51.9	52.5	13 48	59.2	06 45	47.8	11.4	6
53.7	53.0	53.3	53.5	52.8	52.8	52.8	52.5	52.5	12 55	58.8	07 25	47.3	11.5	7 *
54.2	54.1	53.9	53.7	53.7	53.1	52.4	52.7	53.1	13 02	58.8	07 35	48.3	10.5	8 *
52.8	52.2	52.9	53.3	52.6	52.3	51.2	51.5	53.0	12 27	62.4	06 21	45.2	17.2	9
54.4	53.7	53.3	52.4	52.5	51.9	51.7	51.5	52.4	13 18	59.8	07 39	46.6	13.2	10
52.6	51.4	49.0	46.6	48.4	44.5	45.6	47.1	51.2	12 28	62.9	21 22	42.7	20.2	11
53.8	53.0	52.1	51.3	50.1	51.7	50.7	49.1	52.3	12 22	60.7	04 05	45.9	14.8	12
55.7	55.8	54.9	53.1	53.0	50.3	47.9	48.0	51.4	13 59	58.3	06 14	45.4	12.9	13
54.0	54.0	54.0	50.6	48.0	51.0	45.3	45.1	52.3	12 50	63.0	22 58	40.6	22.4	14 **
54.1	53.0	52.7	52.4	52.0	50.7	50.1	51.5	52.0	12 24	59.0	07 38	46.8	12.2	15
53.8	52.7	52.3	51.5	49.5	47.9	50.7	51.5	51.9	13 14	59.8	21 11	46.6	13.2	16
52.1	51.3	50.7	51.8	52.1	52.0	51.7	51.5	50.8	13 15	56.3	03 02	43.0	13.3	17
54.8	54.4	53.5	52.8	52.7	52.4	52.0	51.5	52.0	14 42	57.8	04 09	47.8	10.0	18
53.5	53.1	52.8	53.0	52.8	52.3	51.5	51.0	51.8	13 55	56.8	08 49	48.4	8.4	19 *
58.4	57.0	55.3	52.8	49.9	51.4	51.9	51.7	52.2	16 18	59.4	03 45	45.9	13.5	20
54.0	53.1	52.3	52.6	52.5	52.2	51.9	51.8	51.4	14 25	54.9	08 50	47.1	7.8	21 *
53.9	52.7	52.4	52.7	51.9	51.6	52.4	52.5	52.5	13 03	59.5	08 31	47.7	11.8	22
53.3	53.1	52.9	52.9	52.5	52.0	52.0	52.1	52.3	12 57	57.8	08 12	46.7	11.1	23 *
60.5	53.3	43.8	48.7	47.3	43.3	42.5	48.7	52.3	14 02	68.6†	22 04	36.7	31.9	24 **
53.8	52.8	52.4	50.5	48.5	49.0	50.5	49.7	52.1	12 35	59.1	04 57	44.5	14.6	25 **
52.4	47.5	49.5	49.0	49.0	48.3	49.8	50.9	51.5	12 09	58.2	17 32	40.2	18.0	26
54.3	47.6	52.1	51.7	50.6	48.6	50.7	50.9	52.7	13 52	59.5	17 23	42.7	16.8	27
53.8	53.1	52.5	52.0	50.3	50.5	50.3	52.1	51.4	14 38	56.0	09 20	46.7	9.3	28
53.8	53.1	53.1	52.5	51.7	51.7	51.9	51.7	52.2	12 39	56.4	08 33	48.2	8.2	29
54.5	53.5	52.6	52.8	48.0	39.0	30.6	42.8	50.3	13 20	59.0	22 29	20.1†	38.9	30 **
54.0	52.8	52.0	51.7	50.9	50.1	49.7	50.5	52.0	-	59.2	-	44.5	14.7	Mean
53.7	53.3	53.0	53.1	52.9	52.5	52.1	52.0	52.2	-	57.4	-	47.6	9.9	Mean *
55.2	53.6	49.9	49.6	47.9	46.0	43.1	46.8	51.7	-	61.7	-	36.3	25.4	Mean **
9° + Tabular Quantities														OCTOBER
'	'	'	'	'	'	'	'	'	'	h m	'	h m	'	
51.9	51.5	51.2	51.0	51.1	51.0	50.0	50.3	49.1	06 57	64.2	01 36	20.5	43.7	1 **
51.1	49.3	48.0	51.7	51.7	51.5	51.3	51.0	50.5	14 03	55.1	17 58	44.9	10.2	2
52.7	51.0	49.0	50.7	50.7	50.0	50.3	50.1	50.7	12 57	56.0	09 24	45.9	10.1	3
52.7	50.9	50.5	50.4	49.9	48.5	48.6	48.0	50.9	13 36	58.8	23 30	46.4	12.4	4
53.8	52.5	51.6	50.3	51.0	51.5	51.5	51.5	51.9	13 48	58.0	00 00	47.6	10.4	5
53.8	51.4	52.1	50.9	48.9	48.5	50.1	49.8	51.2	13 32	56.4	20 56	47.4	9.0	6
52.6	52.4	52.0	51.5	51.4	51.4	51.5	51.3	51.2	14 04	57.9	05 12	45.8	12.1	7
53.9	53.4	53.0	52.5	52.1	51.6	51.5	51.3	52.3	13 50	58.2	09 42	48.7	9.5	8
52.5	52.0	51.6	51.3	51.0	51.0	51.1	51.3	51.7	13 22	57.7	09 03	47.0	10.7	9
53.8	53.3	52.6	52.0	51.5	51.0	51.3	50.6	51.8	14 18	56.8	09 07	46.9	9.9	10 *
54.5	53.6	52.7	52.4	48.8	48.0	49.6	48.7	51.9	12 44	58.8	08 12	46.8	12.0	11
53.1	52.1	52.1	51.0	50.1	46.5	46.3	46.2	50.8	14 56	59.6	24 00	43.6	16.0	12
52.4	50.0	51.9	52.0	51.8	51.5	50.4	48.4	50.9	13 32	56.7	00 08	43.5	13.2	13
53.2	52.3	51.8	51.6	51.3	51.3	51.0	50.6	51.3	13 23	56.8	00 48	45.6	11.2	14
53.8	53.0	52.4	51.8	49.8	50.6	51.0	50.9	51.8	13 20	57.6	08 55	47.9	9.7	15 *
53.1	52.8	52.6	52.0	51.9	51.6	51.3	51.0	51.5	14 10	56.8	08 55	46.8	10.0	16 *
53.1	53.1	53.0	52.7	52.4	52.1	52.1	51.7	51.7	13 50	56.1	09 14	46.9	9.2	17 *
53.5	53.0	52.7	52.1	51.9	51.6	51.7	51.5	51.8	13 16	56.6	09 28	47.2	9.4	18 *
53.8	53.5	53.0	52.7	51.8	51.6	49.6	50.1	51.4	14 24	56.0	03 28	47.0	9.0	19
51.6	51.7	51.8	51.8	51.4	51.2	50.9	50.5	49.0	00 10	58.3	01 40	34.6	23.7	20
53.8	53.6	53.5	52.1	50.6	47.0	44.7	47.7	51.2	13 56	57.7	22 42	41.8	15.9	21
53.3	52.3	51.3	51.0	51.0	51.0	50.0	50.4	51.3	13 40	57.3	09 09	47.0	10.3	22
53.3	52.5	51.8	51.8	50.3	45.6	48.7	51.6	51.5	13 46	56.8	21 45	43.2	13.6	23
53.5	52.5	51.7	51.0	50.3	50.2	50.0	50.6	52.3	12 11	57.7	08 32	48.7	9.0	24
56.4	53.3	49.0	50.0	48.3	47.7	44.0	47.5	51.5	12 50	58.2	22 21	40.8	17.4	25
58.6	54.0	52.1	50.0	42.2	38.0	37.2	43.6	52.2	12 53	63.9	21 03	33.8	30.1	26 **
52.6	53.5	48.8	44.7	44.3	40.0	40.4	43.1	49.5	03 31	58.0	21 44	32.4	25.6	27 **
61.9	58.9	60.0	19.6	26.6	28.6	38.7	38.6	50.4	18 51	82.3†	19 04	-2.4†	84.7	28 **
52.5	51.5	50.8	50.6	49.8	49.2	47.7	49.7	52.7	02 04	67.9	00 00	41.9	26.0	29 **
51.7	47.5	51.5	50.9	50.6	49.5	49.4	49.6	50.5	13 12	55.9	17 19	45.5	10.4	30
52.5	52.0	51.5	51.0	50.9	50.6	50.6	49.9	51.1	14 00	54.8	09 25	47.8	7.0	31
53.6	52.4	51.9	50.2	49.5	48.7	48.8	49.3	51.2	-	58.8	-	42.3	16.5	Mean
53.5	53.0	52.7	52.1	51.5	51.4	51.5	51.1	51.7	-	56.8	-	47.1	9.6	Mean *
55.5	53.9	52.6	43.2	42.8	41.4	42.8	45.1	50.8	-	67.3	-	25.2	42.0	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE I. - HOURLY MEANS OF MAGNETIC DECLINATION WEST

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>NOVEMBER</b>																	
9° + Tabular Quantities																	
1	49.2	49.6	49.9	50.1	50.0	50.3	50.0	50.0	49.4	49.2	50.3	52.1	53.8	54.6	54.3	53.1	
2	50.3	50.5	50.7	50.9	51.1	51.0	50.5	50.0	50.1	50.4	52.7	53.9	55.5	57.4	55.8	54.8	
3	48.4	48.8	49.7	48.9	49.3	49.7	49.8	49.5	48.3	48.1	49.8	52.0	53.8	53.8	53.6	52.7	
4	49.5	49.8	50.2	50.5	50.5	50.4	49.9	49.6	48.6	48.1	50.2	52.5	53.9	54.5	54.0	52.9	
5 **	47.0	48.2	49.5	50.4	49.5	51.0	51.0	49.8	49.5	50.7	52.9	54.5	57.5	57.9	59.9	56.7	
6	48.7	49.3	50.5	50.9	52.7	52.8	50.1	50.6	52.5	53.2	52.7	54.4	54.3	53.9	53.1	52.4	
7 **	49.8	49.9	49.8	50.0	49.9	50.5	50.0	50.7	52.9	51.3	50.6	53.0	56.0	58.7	57.6	54.0	
8 **	50.5	44.6	44.0	47.6	49.6	50.7	51.6	51.7	48.4	47.0	47.7	50.5	53.1	53.7	54.3	53.3	
9	50.2	51.5	52.2	50.3	50.5	50.5	49.8	49.5	48.5	48.7	50.6	53.6	56.3	56.7	56.4	54.9	
10	49.5	49.8	50.8	51.5	52.0	51.2	50.0	49.2	48.0	48.4	49.7	52.2	53.8	55.2	54.2	52.5	
11	50.3	50.4	50.9	51.1	51.2	50.9	50.4	49.5	48.0	48.0	49.5	51.6	53.7	54.7	54.4	53.6	
12	49.8	47.6	47.8	48.5	48.4	48.5	49.7	49.2	49.5	49.6	50.6	52.6	54.9	57.5	57.3	57.2	
13	46.9	49.3	49.3	49.9	50.8	50.7	50.7	50.2	49.5	48.8	49.4	50.7	52.2	52.7	52.5	51.9	
14	48.6	49.6	50.6	50.1	51.1	51.9	51.1	51.6	52.5	48.6	49.1	50.3	52.6	52.7	52.8	52.3	
15 *	49.5	50.1	50.3	50.8	50.7	50.5	50.3	49.6	48.6	48.2	49.4	51.3	53.1	53.6	53.4	52.8	
16	49.8	50.1	50.3	50.5	50.7	50.5	50.3	49.9	48.9	48.8	50.0	52.2	53.8	53.9	53.6	52.6	
17 **	47.9	49.0	50.6	49.8	50.0	50.2	50.2	49.8	49.4	49.6	50.8	52.2	53.5	55.3	56.1	54.8	
18 **	46.9	43.8	47.3	50.9	50.9	51.7	51.8	55.1	52.6	54.9	58.6	57.7	55.4	55.6	58.2	57.3	
19	44.1	45.6	51.2	51.4	51.2	51.4	51.6	50.2	49.2	49.2	51.1	51.9	53.1	53.1	52.8	51.7	
20	50.1	50.4	50.3	50.8	51.1	51.5	50.6	51.3	50.8	50.8	51.9	53.6	53.8	54.4	52.6	51.5	
21	48.4	46.8	46.6	47.8	49.1	49.6	49.9	49.6	49.4	49.4	50.4	51.5	52.4	52.2	51.9	51.6	
22 *	50.6	49.6	50.4	50.5	50.5	50.1	49.6	49.1	48.8	48.8	50.5	51.9	53.1	53.5	52.4	52.1	
23 *	50.3	50.5	50.9	51.1	50.8	50.7	50.4	50.1	49.2	48.8	50.0	51.8	53.4	53.4	52.5	51.9	
24 *	49.7	49.5	49.7	50.1	50.1	49.6	49.2	49.2	49.1	48.6	49.5	51.6	53.2	54.1	53.1	52.3	
25	49.3	50.3	50.7	51.3	50.8	50.6	50.6	50.3	49.9	50.6	51.3	52.8	54.1	55.2	55.1	53.9	
26	50.1	50.5	50.8	51.3	51.5	51.4	50.9	50.5	50.1	49.4	49.9	51.1	52.1	53.5	53.8	53.2	
27	47.4	48.4	50.7	51.4	51.3	50.8	50.6	50.2	49.6	48.9	49.1	51.2	53.1	53.7	53.3	53.1	
28	49.9	50.4	50.7	51.1	50.8	50.8	50.1	49.9	49.2	49.2	49.8	51.4	52.7	53.2	53.3	52.9	
29	50.0	50.1	51.0	51.4	51.4	51.5	50.6	50.1	49.5	49.5	50.9	52.3	53.6	53.7	53.4	52.5	
30 *	49.9	49.8	50.5	50.7	51.0	50.8	50.4	49.7	48.9	48.6	49.2	50.6	52.3	53.4	52.8	52.7	
Mean	49.1	49.1	49.9	50.4	50.6	50.7	50.4	50.2	49.6	49.4	50.6	52.3	53.8	54.5	54.3	53.3	
Mean *	50.0	49.9	50.4	50.6	50.6	50.3	50.0	49.5	48.9	48.6	49.7	51.4	53.0	53.6	52.8	52.4	
Mean **	48.4	47.1	48.2	49.7	50.0	50.8	50.9	51.4	50.6	50.7	52.1	53.6	55.1	56.2	57.2	55.2	
<b>DECEMBER</b>																	
9° + Tabular Quantities																	
1 **	50.3	50.7	51.1	51.5	51.8	52.1	51.8	50.7	48.9	49.4	51.5	54.7	55.5	60.4	64.4	62.7	
2 **	43.4	47.5	46.8	50.1	52.8	56.5	52.7	51.9	49.6	50.5	52.3	54.1	55.2	53.7	59.1	58.4	
3 **	33.8	32.6	36.3	40.7	49.4	54.0	58.2	55.7	52.3	52.9	53.4	53.7	57.3	54.8	55.5	54.4	
4	49.3	50.4	51.1	50.8	50.2	49.9	50.0	49.6	49.7	50.9	52.1	52.7	53.4	53.7	52.8	51.9	
5	49.4	49.9	50.2	50.7	50.2	49.8	49.3	49.2	48.6	48.4	49.7	51.4	52.8	53.4	54.2	52.3	
6	48.4	50.4	52.2	51.9	53.4	49.9	49.2	49.0	48.6	48.6	49.3	51.1	53.7	55.4	56.6	55.1	
7	50.2	50.4	50.8	50.8	50.7	50.3	50.0	49.4	49.1	48.9	49.7	52.5	52.9	53.0	52.9	52.3	
8 *	50.0	50.1	50.3	50.3	50.2	50.0	49.4	49.0	48.2	48.0	48.8	51.1	51.9	52.6	52.4	51.9	
9	50.4	50.8	51.1	51.2	51.1	50.6	50.1	49.4	49.0	48.5	49.3	51.1	52.1	53.1	52.7	52.2	
10	50.0	50.5	50.8	51.1	51.1	51.0	50.1	49.8	49.1	48.6	49.5	51.6	53.8	53.3	52.8	52.1	
11	48.7	49.6	47.4	49.9	50.3	50.0	50.5	51.1	50.6	52.8	52.5	53.2	55.8	56.9	56.6	56.3	
12	46.8	47.0	48.6	48.5	49.7	50.6	50.1	49.6	49.1	48.5	49.2	50.6	51.8	53.0	53.2	52.2	
13	49.4	49.8	50.0	50.4	50.6	50.5	50.2	49.8	49.5	48.9	49.8	50.9	51.8	52.4	52.3	51.6	
14	45.8	48.4	49.6	49.9	50.1	50.0	49.7	49.8	49.9	49.9	50.6	50.9	51.6	52.3	52.0	51.7	
15	49.0	50.5	50.7	51.6	52.1	51.8	50.9	50.6	50.2	50.4	50.8	51.2	52.2	52.9	53.1	51.6	
16	49.1	49.5	50.1	50.9	50.6	50.4	50.7	50.8	50.6	50.2	51.2	51.6	52.1	52.8	52.6	51.2	
17	48.5	49.3	50.8	50.5	50.6	50.0	49.8	49.7	49.3	49.3	50.4	51.1	52.3	52.8	51.9	51.3	
18 *	50.2	50.6	50.9	51.2	50.1	49.9	49.9	49.9	49.7	49.7	50.4	51.4	52.1	52.6	52.4	51.7	
19 *	50.4	50.5	50.9	50.9	50.7	50.3	50.1	49.9	49.2	49.1	50.2	51.7	52.8	53.2	52.4	51.5	
20 *	50.7	50.9	50.8	50.6	50.3	50.2	49.9	50.1	49.8	49.5	50.3	52.4	53.4	53.8	52.7	51.9	
21	50.4	50.8	51.1	51.2	51.0	50.1	49.9	49.6	49.0	48.4	49.5	51.5	53.1	53.5	52.3	51.1	
22	50.2	50.7	51.4	50.9	50.7	50.7	50.0	49.7	49.4	48.9	49.8	52.4	54.4	54.9	55.1	53.6	
23	50.1	50.5	51.2	50.1	48.7	49.8	49.8	49.4	49.8	49.5	50.1	51.9	53.7	54.6	53.4	52.9	
24	48.6	49.1	50.7	51.1	51.4	51.4	50.9	50.1	49.3	48.9	50.1	51.6	53.1	52.6	55.0	53.2	
25 *	49.7	50.0	50.3	50.7	50.6	50.2	49.9	49.5	48.8	48.1	48.8	51.2	53.0	53.3	52.7	52.0	
26	49.6	50.1	50.6	51.0	50.8	50.8	50.6	50.0	49.6	48.8	48.9	50.8	53.0	54.5	53.8	52.8	
27	48.4	49.9	48.3	49.9	51.1	50.9	50.9	51.1	50.2	49.7	49.8	51.1	53.3	54.7	53.9	52.4	
28 **	49.9	49.2	48.4	49.1	49.5	50.0	50.6	50.5	50.7	51.7	51.7	51.8	54.9	54.4	55.1	53.1	
29	47.7	50.9	50.3	50.1	50.1	50.0	49.9	49.4	48.9	48.8	49.5	50.9	53.1	53.2	51.8	50.9	
30 **	48.9	50.0	49.9	50.2	49.4	49.9	49.0	49.7	49.8	48.4	48.1	52.0	51.8	52.8	52.2	50.3	
31	48.6	49.0	49.7	50.0	50.2	50.0	49.4	49.0	48.9	49.0	50.1	51.7	53.7	54.1	53.8	52.0	
Mean	48.6	49.3	49.8	50.3	50.6	50.7	50.4	50.1	49.5	49.5	50.2	51.8	53.3	53.8	53.9	52.9	
Mean *	50.2	50.4	50.6	50.7	50.4	50.1	49.8	49.7	49.1	48.9	49.7	51.6	52.6	53.1	52.5	51.8	
Mean **	45.3	46.0	46.5	48.3	50.6	52.5	52.5	51.7	50.3	50.6	51.4	53.3	54.9	55.2	57.3	55.8	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date
9° + Tabular Quantities													
NOVEMBER													
/	/	/	/	/	/	/	/	/	/	h m	/	h m	/
52.5	52.0	52.0	50.0	49.9	50.5	50.1	50.0	51.0	14 12	54.8	19 59	46.7	8.1
53.4	52.1	51.8	51.1	50.9	50.7	50.6	49.6	51.9	13 32	57.8	24 00	47.7	10.1
52.1	52.0	51.9	51.8	51.0	50.7	49.7	49.7	50.6	12 40	54.1	08 10	47.0	7.1
52.9	53.0	52.4	52.1	51.9	50.7	48.8	48.3	51.1	13 00	54.8	23 23	46.7	8.1
55.7	53.2	50.6	48.3	47.6	49.3	44.1	44.6	51.2	14 23	61.9†	22 47	42.7	19.2
52.0	51.2	51.1	51.1	50.8	50.6	50.6	50.4	51.7	09 09	55.8	00 00	44.8	11.0
44.6	46.0	47.5	42.6	34.1	41.5	41.8	46.6	49.1	13 36	61.6	20 12	26.0†	35.6
51.9	51.0	50.5	50.0	42.2	46.1	46.6	49.3	49.4	14 14	54.6	01 45	37.7	16.9
52.3	50.8	47.4	46.2	48.2	48.7	48.2	48.6	50.9	14 02	57.5	18 58	41.6	15.9
51.7	51.3	51.1	50.6	50.2	49.8	49.9	50.2	50.9	13 50	55.7	08 38	47.6	8.1
52.4	51.9	51.3	51.2	50.6	50.3	47.4	48.4	50.9	13 40	55.0	22 52	45.5	9.5
54.5	53.9	52.2	51.4	50.2	46.4	49.7	48.1	51.0	14 50	58.2	21 19	43.4	14.8
51.6	51.2	51.2	51.3	50.8	50.2	49.6	49.4	50.5	13 55	52.7	00 00	45.7	7.0
52.6	52.6	51.6	50.4	49.2	49.3	48.9	49.1	50.8	08 24	54.1	10 02	47.8	6.3
52.4	51.8	51.5	51.3	50.9	50.5	49.3	49.5	50.8	13 08	53.7	09 08	47.7	6.0
52.5	52.1	51.6	51.4	51.2	50.8	45.0	44.6	50.6	13 00	54.6	22 11	44.0	10.6
53.3	51.9	50.6	49.4	48.3	46.6	43.4	42.9	50.2	14 54	58.4	23 41	38.3	20.1
55.4	46.8	46.6	44.7	42.3	45.5	42.8	39.5	50.5	10 23	59.7	19 55	31.0	28.7
50.8	50.5	50.4	50.1	50.1	50.1	49.8	50.1	50.4	12 44	53.7	00 00	40.2	13.5
48.5	46.9	48.6	47.3	46.3	46.9	48.2	49.6	50.3	13 34	55.9	16 22	45.4	10.5
51.3	50.9	50.6	49.6	49.6	49.6	49.4	49.5	49.9	23 54	53.4	02 08	45.5	7.9
51.7	51.2	50.7	50.5	50.2	50.0	50.0	50.1	50.7	13 12	53.6	08 05	48.5	5.1
51.5	51.2	50.9	50.5	50.1	49.9	49.8	49.8	50.8	12 54	54.5	09 14	48.5	6.0
51.9	51.8	51.3	50.5	49.9	48.7	47.6	48.4	50.4	13 10	54.4	22 39	46.9	7.5
52.4	52.2	51.8	50.7	50.0	49.8	49.3	49.5	51.4	13 38	55.6	00 00	48.5	7.1
52.1	51.8	51.1	50.6	50.1	49.4	47.2	46.3	50.8	14 01	54.4	22 56	44.5	9.9
52.2	51.7	49.5	50.5	50.1	49.5	49.6	49.7	50.7	13 57	54.0	00 45	46.6	7.4
52.5	52.5	51.2	50.7	50.1	49.5	49.6	49.9	50.9	14 15	53.5	09 11	48.7	4.8
51.9	51.5	51.2	50.8	50.6	50.3	49.2	49.7	51.1	12 40	53.9	22 15	48.5	5.4
52.3	52.3	52.3	51.7	50.7	50.0	49.9	49.8	50.8	12 30	53.7	09 00	48.6	5.1
52.1	51.3	50.7	49.9	48.9	49.1	48.2	48.4	50.7	-	55.5	-	44.4	11.1
52.0	51.7	51.3	50.9	50.4	49.8	49.3	49.5	50.7	-	54.0	-	48.0	5.9
52.2	49.8	49.2	47.0	42.9	45.8	43.7	44.6	50.1	-	59.2	-	35.1	24.1
9° + Tabular Quantities													
DECEMBER													
/	/	/	/	/	/	/	/	/	/	h m	/	h m	/
59.5	54.0	48.0	48.3	48.2	46.6	43.7	40.9	51.9	14 07	70.5†	23 22	36.4	34.1
43.1	47.0	42.2	44.0	32.1	23.8	25.9	28.9	46.7	14 53	62.3	21 05	14.4†	47.9
53.9	52.0	50.1	47.4	48.2	47.6	47.9	48.2	49.6	06 22	60.6	00 04	25.2	35.4
48.1	49.7	50.0	49.8	49.7	49.1	47.9	49.4	50.5	14 00	54.0	22 23	45.8	8.2
52.7	47.7	50.1	49.9	48.0	48.8	48.1	48.1	50.1	14 04	56.1	17 44	37.0	19.1
57.3	50.5	48.1	47.9	46.5	45.7	47.4	49.2	50.6	16 02	59.2	20 10	41.0	18.2
51.4	50.5	49.9	49.6	49.1	49.0	49.1	49.7	50.5	12 37	54.3	10 05	48.5	5.8
51.1	50.9	50.3	49.9	49.8	49.8	49.8	49.9	50.2	13 38	52.7	09 30	47.6	5.1
51.9	51.6	51.0	50.3	48.5	48.7	48.9	49.6	50.5	13 34	53.4	09 31	48.0	5.4
50.9	49.4	51.2	50.1	47.5	44.7	44.9	47.8	50.1	12 26	54.3	22 18	43.5	10.8
58.2	59.6	56.1	52.8	45.8	43.9	45.4	46.0	51.7	16 52	60.2	21 15	42.8	17.4
51.5	51.1	50.3	49.9	49.5	49.3	49.1	49.1	49.9	14 20	53.3	00 55	46.0	7.3
51.8	51.8	51.0	50.5	50.2	47.0	44.2	43.5	49.9	14 17	52.9	21 56	41.3	11.6
51.1	51.0	50.9	50.2	50.1	50.0	48.9	46.9	50.1	13 51	52.4	00 20	44.8	7.6
50.6	50.3	50.2	50.3	49.9	45.8	46.7	48.7	50.5	14 08	53.8	22 01	41.2	12.6
51.2	50.7	50.4	50.2	49.9	49.8	47.6	48.1	50.5	13 53	53.1	22 53	45.7	7.4
51.1	51.1	50.8	50.2	50.0	49.1	49.1	49.9	50.4	13 00	52.9	00 22	48.2	4.7
50.9	50.4	50.2	50.1	49.9	49.7	49.8	50.1	50.6	13 40	52.8	21 56	49.1	3.7
50.9	50.4	50.7	50.7	50.1	49.8	49.9	50.3	50.7	13 36	53.3	09 05	48.9	4.4
51.3	51.4	50.9	50.3	49.8	48.6	48.4	50.0	50.7	13 22	54.0	22 02	47.7	6.3
50.7	50.6	50.3	49.9	49.7	49.2	49.1	49.8	50.5	13 02	53.7	09 42	48.1	5.6
51.6	51.9	50.8	49.2	48.5	49.0	48.8	49.6	50.9	14 01	55.9	20 07	47.9	8.0
52.0	51.3	50.2	50.1	49.8	49.1	37.5	44.8	50.0	13 40	55.1	22 37	31.0	24.1
52.0	51.9	50.9	48.8	48.6	46.0	48.7	49.6	50.6	14 40	55.7	21 21	45.0	10.7
51.4	51.1	50.5	50.3	50.1	49.4	49.2	49.3	50.4	13 10	53.3	09 51	48.0	5.3
52.5	52.7	51.9	50.9	49.9	49.3	49.0	48.4	50.8	14 00	54.9	23 38	48.0	6.9
51.8	51.7	51.1	50.8	50.1	49.6	49.3	49.2	50.8	13 26	55.1	02 13	46.6	8.5
55.1	52.9	50.2	49.8	46.0	46.4	46.4	47.1	50.6	15 05	57.4	20 57	43.9	13.5
50.5	51.8	51.0	50.3	49.9	47.7	39.9	45.0	49.7	12 21	54.1	22 24	34.9	19.2
44.3	50.8	50.8	49.9	47.4	46.9	47.8	49.1	49.6	03 53	54.2	16 33	40.4	13.8
51.5	50.1	48.6	47.0	49.7	49.1	49.1	48.0	50.1	13 40	54.2	19 06	43.9	10.3
51.7	51.2	50.3	49.7	48.5	47.4	46.7	47.6	50.3	-	55.5	-	42.6	12.9
51.1	50.8	50.5	50.3	49.9	49.5	49.4	49.9	50.5	-	53.2	-	48.3	5.0
51.2	51.3	48.3	47.9	44.4	42.3	42.3	42.8	49.7	-	61.0	-	32.1	28.9

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	709	719	719	725	728	727	733	729	730	725	717	711	717	722	720	715	
2 *	726	725	726	728	731	735	738	743	740	735	733	729	731	730	729	726	
3	731	731	733	731	733	738	743	737	731	730	724	720	725	733	731	724	
4 *	731	731	731	732	734	737	743	737	734	733	732	733	734	738	735	731	
5 *	739	738	738	740	743	747	747	748	744	734	733	734	734	734	736	733	
6	733	733	733	740	742	743	745	743	738	737	733	728	732	734	738	735	
7	730	727	730	731	731	740	745	742	739	740	739	735	743	739	731	727	
8 **	721	704	708	719	717	726	733	723	715	714	720	733	735	727	715	709	
9 **	711	713	716	716	729	737	740	730	712	706	698	695	703	699	699	691	
10	705	707	711	714	716	718	718	722	714	704	706	711	717	714	716	715	
11 *	724	726	726	727	731	733	736	734	728	714	707	706	713	722	726	727	
12	732	733	733	737	738	745	747	745	734	726	719	718	721	728	734	736	
13	732	727	728	728	730	734	738	738	727	719	723	719	708	718	728	732	
14	724	724	725	728	732	734	737	736	734	733	727	724	726	734	736	738	
15	724	723	727	737	734	735	745	748	747	745	741	738	730	724	727	729	
16	722	724	724	734	757	762	740	725	728	717	711	713	718	723	724	724	
17	732	732	741	740	737	744	744	737	737	734	724	718	723	718	715	719	
18	744	741	739	744	746	750	752	754	755	733	737	732	719	699	695	716	
19 **	734	734	727	727	726	730	736	743	745	740	730	728	732	731	727	694	
20 **	685	687	694	700	730	738	705	704	710	693	688	690	688	668	659	657	
21	721	722	721	726	739	731	735	720	720	712	708	691	682	703	710	697	
22 **	728	728	731	730	728	734	742	732	746	732	722	684	696	707	718	720	
23	734	734	725	727	732	731	729	729	724	722	723	724	725	727	727	724	
24	747	743	734	736	734	748	737	732	747	741	733	717	703	703	707	708	
25	751	722	722	727	734	738	736	733	727	723	708	687	697	694	708	718	
26	730	734	732	737	745	750	747	747	745	743	727	722	707	702	720	717	
27	724	733	730	733	737	743	745	739	731	733	719	720	723	723	721	731	
28	757	736	733	729	733	742	743	742	737	727	723	713	713	711	714	713	
29	723	724	728	728	734	741	747	745	734	726	723	718	723	728	730	734	
30	732	733	733	737	740	744	743	740	733	726	723	727	728	732	733	733	
31 *	737	734	736	745	746	747	747	745	744	735	727	722	724	734	741	737	
Mean	728	727	727	730	734	739	739	736	733	727	722	717	718	719	721	720	
Mean *	731	731	731	734	737	740	742	741	738	730	726	725	727	732	733	731	
Mean **	716	713	715	718	726	733	731	726	726	717	712	706	711	706	704	694	
FEBRUARY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	740	739	738	737	738	744	745	747	744	737	728	724	728	732	735	736	
2 *	741	743	744	745	746	748	751	749	747	738	732	729	728	730	736	739	
3	742	742	742	744	745	746	747	746	743	743	727	732	739	738	717	733	
4 **	731	732	731	732	733	734	737	745	746	738	730	729	727	741	722	709	
5	642	648	658	655	690	701	683	695	678	680	682	684	686	688	690	690	
6	707	714	716	715	720	731	737	744	728	723	717	713	712	724	708	681	
7	720	717	714	712	713	721	722	717	709	704	698	695	705	714	722	721	
8	714	713	712	715	718	721	723	721	720	718	713	713	719	725	732	723	
9	724	724	723	725	724	727	734	728	723	715	709	708	709	720	729	724	
10	729	732	730	729	729	732	731	730	732	733	729	724	723	726	730	735	
11	729	730	733	755	737	745	751	747	744	739	726	713	715	724	728	728	
12 *	737	738	738	741	742	745	745	744	738	729	723	722	723	727	732	733	
13	744	744	746	753	754	757	758	761	748	705	676	684	696	691	694	674	
14	727	728	729	732	734	738	737	737	733	723	714	712	714	721	725	726	
15	734	730	733	733	738	745	745	746	746	736	730	718	721	728	726	723	
16 **	745	761	750	747	749	753	758	758	737	731	691	693	693	688	682	693	
17 **	729	730	725	726	728	731	738	747	744	734	728	714	705	733	720	714	
18 **	688	716	693	698	696	707	708	728	728	706	686	687	704	692	723	714	
19	737	721	727	723	726	731	729	732	727	727	721	725	699	718	731	723	
20 **	735	741	722	729	729	727	731	745	731	713	709	716	707	704	731	719	
21	729	730	731	724	734	737	738	729	728	724	716	711	711	708	726	729	
22	731	732	736	741	740	743	743	733	733	723	712	712	712	713	722	714	
23	743	731	734	736	737	736	737	743	743	728	722	718	718	722	726	724	
24	744	746	741	741	743	743	751	742	735	726	718	719	725	732	733	736	
25 *	737	737	737	739	740	743	743	745	743	728	722	724	731	735	736	737	
26 *	737	737	734	735	737	744	747	750	745	734	723	717	721	727	733	734	
27	746	745	746	754	746	756	753	749	746	740	732	729	732	736	744	744	
28	746	738	728	732	743	744	748	751	743	745	732	727	726	734	732	732	
Mean	729	730	728	730	732	737	738	740	734	726	716	714	715	720	724	721	
Mean *	738	739	738	739	741	745	746	747	743	733	726	723	726	730	734	736	
Mean **	726	736	724	726	727	730	734	745	737	724	709	708	707	712	716	710	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m	h m	$\gamma$			
714	724	729	731	731	730	727	727	723	723	06 51	739	00 09	707	32	1
724	728	731	731	732	729	729	735	731	731	07 28	743	16 46	722	21	2 *
721	722	726	727	733	737	735	733	730	730	06 53	743	17 01	717	26	3
730	734	740	746	748	746	746	739	736	736	20 32	750	16 29	729	21	4 *
733	737	742	738	719	723	725	731	736	736	07 21	749	20 27	715	34	5 *
734	731	734	737	739	737	734	734	736	736	03 47	750	11 22	723	27	6
726	730	735	739	740	744	739	731	736	736	21 03	750	02 06	721	29	7
705	683	674	689	714	714	705	714	713	713	00 05	745	18 47	663	82	8 **
677	673	657	657	669	666	694	707	700	700	06 17	744	18 54	640†	104	9 **
716	722	723	721	719	724	723	724	716	716	21 12	727	09 50	700	27	10
727	729	733	732	733	733	733	733	726	726	06 57	738	10 20	706	32	11 *
736	736	734	736	735	737	734	732	734	734	06 48	750	11 01	717	33	12
732	737	738	738	724	724	728	728	728	728	19 09	744	12 33	705	39	13
738	735	737	734	727	720	713	719	730	730	16 28	741	22 12	708	33	14
722	731	737	736	734	724	753	704	733	733	22 19	799†	23 05	690	109	15
724	725	725	734	745	740	737	734	730	730	05 11	773	10 55	710	63	16
724	727	733	738	740	741	737	737	732	732	02 24	747	14 09	710	37	17
728	732	732	713	722	727	734	736	733	733	08 06	762	14 33	678	84	18
668	671	687	694	687	691	705	699	716	716	08 03	749	17 28	657	92	19 **
665	686	707	715	711	718	718	719	697	697	05 20	744	15 16	643	101	20 **
669	695	707	714	721	728	723	728	713	713	04 45	750	16 09	649	101	21
691	722	714	728	741	732	733	731	724	724	23 46	761	16 21	668	93	22 **
728	729	733	733	739	738	737	738	730	730	21 01	743	16 00	718	25	23
708	706	730	704	719	726	732	754	727	727	23 39	769	18 04	692	77	24
723	723	728	732	727	733	730	727	723	723	00 47	761	13 15	681	80	25
714	721	713	720	721	724	727	732	728	728	05 43	754	13 11	690	64	26
733	736	733	738	739	738	738	735	732	732	06 13	749	14 13	714	35	27
718	723	723	723	713	723	728	733	727	727	00 33	778	20 09	702	76	28
728	726	718	717	723	723	733	733	729	729	07 07	750	19 51	709	41	29
731	734	738	742	744	739	734	734	735	735	04 50	748	10 50	720	28	30
734	736	739	744	744	744	741	738	738	738	06 13	751	12 00	720	31	31 *
717	721	724	725	727	728	729	729	727	727	-	752	-	698	54.1	Mean
730	733	737	738	735	735	735	735	734	734	-	746	-	718	27.8	Mean *
681	687	688	697	704	704	711	714	710	710	-	749	-	654	94.4	Mean **

18000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m	h m	$\gamma$			
736	729	734	739	744	741	744	744	738	738	07 48	749	11 30	723	26	1 *
738	738	743	745	745	744	742	742	741	741	06 30	751	12 16	728	23	2 *
742	733	743	747	747	742	739	731	740	740	19 05	753	14 40	708	45	3
721	718	693	673	607	603	610	666	709	709	13 37	753	20 24	567†	186	4 **
693	698	703	704	705	707	708	709	687	687	05 07	716	00 17	623	93	5
709	719	719	717	709	708	700	712	716	716	06 53	761	15 38	657	104	6
722	721	725	728	722	712	720	723	716	716	22 50	732	11 14	691	41	7
724	728	729	714	725	724	731	728	721	721	13 57	735	19 20	707	28	8
728	729	730	732	733	735	732	730	725	725	06 14	742	12 08	703	39	9
738	739	738	736	728	733	733	731	731	731	18 07	742	12 14	721	21	10
732	734	734	734	728	729	733	737	734	734	03 10	764	11 23	710	54	11
731	734	739	744	744	744	739	741	736	736	05 39	748	10 54	720	28	12 *
675	683	690	712	728	728	724	728	719	719	07 53	774	15 57	659	115	13
729	734	738	738	723	726	726	737	728	728	18 22	745	11 35	709	36	14
724	728	734	737	738	742	742	742	734	734	07 52	751	11 37	711	40	15
687	700	717	718	710	724	728	728	723	723	01 24	777†	14 08	666	111	16 **
717	718	712	717	689	705	712	702	722	722	07 44	751	20 30	660	91	17 **
707	714	738	716	721	728	728	732	711	711	17 56	769	10 45	660	109	18 **
709	720	712	731	731	737	738	733	725	725	00 33	742	12 41	680	62	19
709	724	716	723	717	729	749	726	724	724	22 12	755	16 05	677	78	20 **
711	722	732	713	706	719	716	722	723	723	17 46	758	16 31	692	66	21
718	723	731	733	735	737	755	759	730	730	22 43	773	15 20	701	72	22
726	732	736	737	748	735	733	737	733	733	20 49	760	12 50	715	45	23
734	733	735	736	736	736	737	737	736	736	06 08	756	10 42	716	40	24
737	740	744	746	746	744	747	743	739	739	22 42	753	10 55	717	36	25 *
735	737	744	746	746	744	743	745	737	737	07 18	752	11 30	717	35	26 *
744	746	751	754	753	749	746	744	745	745	03 42	763	11 16	727	36	27
734	740	742	737	726	738	727	734	737	737	07 29	753	20 32	719	34	28
722	725	729	729	725	727	728	730	727	727	-	753	-	692	60.5	Mean
735	736	741	744	745	743	743	743	738	738	-	751	-	721	29.6	Mean *
708	715	715	709	689	698	705	711	718	718	-	761	-	646	115.0	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
<b>MARCH</b>																	
	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	733	734	736	737	743	744	746	743	737	732	726	727	720	729	737	739	
2	736	732	735	737	733	734	753	753	744	738	737	732	727	728	732	737	
3 *	732	747	737	741	743	749	751	752	748	736	733	731	731	729	732	731	
4 *	754	752	752	754	756	754	756	756	751	742	738	738	745	743	735	734	
5	747	747	751	754	754	754	756	756	752	743	732	728	734	737	743	744	
6 **	659	662	675	721	727	742	743	736	717	720	724	723	706	705	705	703	
7 *	732	732	733	733	733	733	734	736	738	733	724	719	725	727	731	732	
8 *	733	736	731	731	733	736	737	738	736	733	727	722	726	730	736	736	
9	736	736	740	749	743	736	743	742	739	736	732	725	723	737	743	743	
10 **	747	742	746	743	740	753	769	753	724	673	637	642	663	673	673	675	
11	713	712	717	722	722	724	725	725	722	719	715	715	716	722	721	725	
12	723	720	723	724	731	731	732	733	732	731	721	721	722	723	722	726	
13	726	726	723	729	733	742	745	745	736	737	734	726	728	726	728	716	
14 **	744	762	757	767	750	747	745	734	745	728	709	705	715	710	712	707	
15 **	736	739	740	742	726	742	749	743	736	717	701	712	716	723	718	725	
16	743	750	718	716	723	730	735	701	725	717	720	721	709	729	734	734	
17	743	741	740	745	739	745	747	739	740	716	719	721	723	723	728	728	
18	738	740	736	737	739	743	744	740	728	717	715	716	719	717	713	724	
19 **	745	744	747	748	758	748	747	737	732	717	712	706	696	700	694	724	
20	755	737	726	726	729	731	734	731	732	713	687	696	701	706	703	720	
21	746	739	738	746	735	748	752	752	750	740	732	725	722	723	725	725	
22	745	749	752	747	739	737	744	742	734	747	731	721	716	722	725	731	
23	745	743	744	742	743	743	743	745	742	733	718	716	723	721	713	732	
24	746	747	752	747	746	745	746	748	746	743	743	729	736	741	742	735	
25 *	749	749	746	746	745	746	751	752	746	743	736	732	740	744	740	750	
26	753	753	753	752	755	757	762	760	762	747	742	743	746	733	735	740	
27	756	754	755	755	758	762	754	760	751	732	723	724	715	722	735	752	
28	736	740	752	743	745	741	740	732	727	727	729	722	725	725	723	722	
29	743	744	744	743	743	746	745	742	736	731	717	718	722	725	736	746	
30	750	758	757	750	761	748	741	736	733	729	720	717	720	722	734	739	
31	748	749	752	752	755	757	759	756	746	729	717	713	715	721	731	759	
Mean	738	739	739	741	741	743	746	743	738	729	721	719	720	723	725	730	
Mean *	740	743	740	741	742	744	746	747	744	737	732	728	733	735	735	737	
Mean **	726	730	733	744	740	746	751	741	731	711	697	698	699	702	700	707	
<b>APRIL</b>																	
	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	767	783	784	764	749	762	761	751	734	732	716	712	713	718	728	734	
2	748	744	743	745	741	739	749	753	730	717	706	696	700	704	712	728	
3 **	726	720	725	732	763	745	731	714	696	697	693	692	690	698	699	700	
4 *	751	744	733	732	736	737	737	736	738	728	716	710	713	720	726	732	
5 *	745	742	756	742	753	753	753	749	740	729	721	713	724	732	736	739	
6	752	751	751	753	754	760	759	753	741	726	712	713	720	726	742	757	
7	745	750	747	748	757	755	755	756	752	742	725	725	732	738	742	743	
8	756	755	755	755	756	758	763	757	753	740	726	716	724	727	735	743	
9 **	765	765	765	768	768	762	757	757	755	735	671	678	716	742	732	730	
10	779	753	745	742	746	745	735	747	747	732	715	724	720	720	725	745	
11 **	756	745	753	760	747	762	763	751	743	721	716	714	715	709	719	734	
12	751	744	744	744	745	745	746	733	735	726	713	711	710	730	721	736	
13	747	750	749	747	746	754	755	751	741	720	710	709	718	730	739	749	
14 **	772	762	764	762	763	766	756	743	735	720	710	716	713	726	729	742	
15 **	678	712	749	672	704	703	674	696	695	679	661	665	674	686	687	710	
16	736	731	735	729	731	730	732	725	716	706	699	699	694	699	713	725	
17 *	729	733	734	735	734	738	744	738	729	718	706	701	705	720	726	730	
18 *	748	745	741	742	743	751	753	757	745	722	713	707	710	720	729	736	
19	754	754	747	740	746	755	758	758	753	736	715	704	710	725	736	746	
20	775	759	745	745	744	751	754	754	745	742	731	725	728	730	735	741	
21 *	753	753	751	751	749	751	752	751	741	731	719	717	719	724	730	736	
22	756	756	756	756	755	755	755	754	752	748	742	741	745	741	741	736	
23	744	744	745	744	740	745	746	751	744	741	731	724	721	730	740	742	
24	755	755	759	751	746	751	751	752	742	730	721	719	721	731	736	746	
25	744	751	766	752	751	752	751	751	741	731	724	722	720	723	732	741	
26	754	750	747	762	751	746	762	763	755	739	721	715	714	720	731	728	
27	752	759	762	761	756	762	777	771	751	735	729	731	731	725	745	761	
28	769	746	766	754	755	756	750	741	731	725	724	721	721	728	732	738	
29	756	744	745	747	747	746	744	742	733	728	729	725	730	731	739	754	
30	752	751	751	749	748	752	752	752	744	736	729	729	733	731	751	744	
Mean	751	748	750	746	747	750	749	747	739	727	715	712	716	723	730	738	
Mean *	745	743	743	740	743	746	748	746	739	726	715	710	714	723	729	735	
Mean **	739	741	751	739	749	748	736	732	725	710	690	693	702	712	713	723	

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )													MARCH		
										h m	h m	$\gamma$			
737	742	745	743	739	738	737	734	737	737	07 03	750	12 50	711	39	1
741	742	745	746	746	743	735	726	738	738	07 26	758	23 36	720	38	2
741	748	752	757	755	754	751	752	743	743	19 49	760	00 08	727	33	3 *
741	743	747	750	750	749	749	748	747	747	00 03	757	14 59	729	28	4 *
746	743	748	750	718	693	674	660	736	736	06 39	759	23 32	636	123	5
712	721	718	725	731	732	731	731	715	715	06 26	752	01 16	637	115	6 **
737	738	742	742	737	735	740	735	733	733	19 31	748	11 26	717	31	7 *
733	732	733	733	735	737	726	733	733	733	21 54	742	22 35	719	23	8 *
740	743	739	732	741	741	742	750	739	739	23 56	770	12 38	720	50	9
680	696	717	721	718	717	716	716	710	710	01 57	780	11 05	606†	174	10 **
725	725	730	721	719	724	723	724	721	721	19 01	737	11 50	708	29	11
727	732	734	737	736	734	735	726	728	728	20 09	740	01 08	706	34	12
726	735	742	745	742	742	742	747	734	734	19 14	753	15 38	709	44	13
717	715	730	734	736	746	743	736	733	733	01 43	782	11 19	698	84	14 **
730	731	736	747	747	763	746	727	733	733	22 07	778	14 02	688	90	15 **
726	727	736	742	743	744	743	743	730	730	00 50	762	07 49	688	74	16
730	729	736	744	744	744	745	744	736	736	03 00	756	09 36	706	50	17
723	716	724	736	746	748	764	745	732	732	22 30	776	18 05	699	77	18
726	706	719	722	752	742	753	752	730	730	05 57	771	14 15	679	92	19 **
724	728	730	753	759	736	742	744	727	727	20 02	779	10 28	682	97	20
735	734	732	727	737	742	743	745	737	737	00 37	757	15 28	715	42	21
736	742	743	743	744	745	745	745	739	739	02 13	762	11 35	710	52	22
737	746	742	744	746	746	751	748	738	738	17 40	757	14 04	703	54	23
732	737	742	746	748	744	750	761	744	744	22 51	774	11 16	724	50	24
752	753	754	755	753	753	753	755	748	748	22 59	760	11 47	729	31	25 *
743	747	752	753	752	758	753	746	750	750	07 43	768	13 39	728	40	26
745	714	725	742	730	732	734	736	740	740	15 07	786†	18 00	702	84	27
725	732	740	734	741	743	744	745	735	735	02 04	778	16 13	714	64	28
753	755	759	749	755	745	750	751	742	742	18 30	763	10 26	713	50	29
745	741	742	746	749	750	749	748	741	741	04 18	770	11 41	714	56	30
758	768	767	773	771	768	768	769	750	750	16 57	779	11 32	710	69	31
733	734	739	742	743	742	741	739	735	735	-	763	-	702	61.8	Mean
741	743	746	747	746	746	744	745	741	741	-	753	-	724	29.2	Mean *
713	714	724	730	737	740	738	732	724	724	-	773	-	662	111.0	Mean **
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )													APRIL		
										h m	h m	$\gamma$			
731	729	740	750	743	746	748	752	744	744	02 16	800	11 08	708	92	1
732	742	736	753	746	722	719	725	730	730	07 10	759	11 38	694	65	2
712	720	726	736	742	742	739	734	720	720	04 37	769	12 44	687	82	3 **
740	745	751	745	750	750	751	751	736	736	00 40	758	11 42	708	50	4 *
741	751	753	753	755	754	753	755	743	743	02 28	769	11 20	709	60	5 *
759	753	738	753	766	764	746	750	746	746	20 56	786	11 26	710	76	6
751	752	755	761	761	761	762	756	749	749	22 48	766	11 15	724	42	7
751	755	758	765	766	768	765	765	751	751	19 07	775	11 32	711	64	8
730	737	735	744	753	756	755	752	743	743	04 05	773	10 39	657	116	9 **
749	745	756	759	762	760	762	763	745	745	00 13	796	14 19	706	90	10
745	753	732	743	751	749	751	751	741	741	17 39	789	13 33	699	90	11 **
742	757	761	751	758	752	751	750	740	740	17 57	769	12 05	700	69	12
751	765	766	768	774	772	769	770	748	748	19 53	787	11 03	705	82	13
738	752	737	715	688	717	694	679	733	733	18 24	826†	23 32	644	182	14 **
703	723	740	735	727	727	734	736	703	703	01 48	788	01 11	584†	204	15 **
733	749	745	758	752	735	743	723	727	727	19 49	769	13 05	687	82	16
730	736	742	745	746	746	747	746	732	732	19 26	749	11 44	697	52	17 *
740	749	750	753	751	750	750	753	740	740	07 18	758	11 39	706	52	18 *
752	754	743	755	752	759	761	763	745	745	24 00	796	11 29	703	93	19
741	745	749	752	759	757	759	755	747	747	00 03	799	11 36	723	76	20
743	751	756	756	760	750	756	755	744	744	20 11	761	11 20	716	45	21 *
743	737	750	742	751	744	731	741	747	747	18 50	759	22 20	727	32	22
744	747	759	756	752	752	754	751	744	744	18 20	765	12 27	717	48	23
743	757	757	748	745	746	744	744	744	744	00 56	769	11 41	712	57	24
755	760	761	750	752	752	755	754	745	745	02 25	775	12 46	717	58	25
746	765	773	761	761	756	751	752	747	747	18 11	803	11 57	707	96	26
751	761	766	762	757	754	761	759	753	753	06 22	786	13 30	714	72	27
742	754	759	766	764	758	755	755	746	746	00 26	776	12 18	717	59	28
758	762	767	768	771	762	751	751	747	747	20 08	774	11 22	718	56	29
762	755	762	771	771	772	759	754	750	750	21 37	779	10 30	721	58	30
742	749	751	752	753	751	749	748	741	741	-	778	-	701	76.7	Mean
739	746	750	750	752	750	751	752	739	739	-	759	-	707	51.8	Mean *
726	737	734	735	732	738	735	730	728	728	-	789	-	654	134.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	754	757	752	771	750	748	750	746	735	722	706	712	721	721	744	746	
2	758	741	728	746	751	751	742	735	722	714	720	722	722	732	739	742	
3 *	751	749	747	747	751	752	752	751	741	732	727	725	733	739	740	739	
4	757	755	753	750	749	749	751	752	747	741	744	737	729	734	737	744	
5	748	758	750	752	751	756	755	748	756	755	748	733	738	744	744	747	
6 **	762	759	757	757	756	740	742	743	729	725	693	705	705	702	717	739	
7 **	753	761	753	753	749	748	742	720	740	736	725	707	711	707	715	734	
8	753	742	744	740	741	745	744	750	748	734	727	722	723	730	729	740	
9	755	755	756	751	751	750	743	731	731	706	736	744	744	745	741	731	
10	758	749	747	748	749	752	751	748	744	739	741	739	736	740	748	747	
11	787	765	757	743	755	762	764	754	744	739	742	742	740	732	745	749	
12	758	762	749	762	742	745	747	739	736	724	720	727	727	734	739	746	
13	767	752	756	739	747	743	738	727	722	722	724	718	733	743	738	755	
14	754	754	757	755	750	739	737	730	724	720	705	704	722	727	730	738	
15 *	753	751	750	749	750	750	745	741	735	735	734	733	729	725	730	736	
16 **	759	751	745	746	756	752	760	752	741	730	723	724	730	741	729	740	
17	761	755	747	747	744	743	742	735	731	725	723	717	706	721	732	744	
18 *	757	759	754	751	750	751	748	744	736	722	719	715	722	729	735	746	
19	761	763	760	758	764	759	757	753	741	734	735	732	736	743	745	765	
20	775	755	753	751	767	778	760	744	731	733	740	740	733	730	740	753	
21 *	760	760	759	760	753	751	746	743	742	744	746	751	758	759	755	754	
22	776	773	764	764	764	769	762	761	763	760	760	762	773	777	769	779	
23	774	771	767	775	777	757	756	757	755	753	744	733	738	748	759	754	
24	760	759	761	760	754	750	747	743	738	738	740	742	749	754	764	773	
25 **	772	770	761	760	754	734	793	750	735	730	725	725	724	718	739	739	
26	743	744	744	744	740	739	735	728	728	725	724	719	715	733	747	760	
27	772	755	751	743	751	754	745	735	728	727	736	741	743	748	744	753	
28	751	751	749	752	750	747	743	741	736	734	733	734	740	746	754	775	
29 *	757	758	756	753	752	759	758	751	741	740	737	737	732	734	743	753	
30	763	761	762	759	763	766	758	749	741	742	751	758	751	761	761	761	
31 **	785	782	770	773	773	781	779	765	747	731	732	745	754	753	742	755	
Mean	761	757	754	754	753	752	751	744	738	733	731	730	733	737	742	750	
Mean *	756	755	753	752	751	753	750	746	739	735	733	732	735	737	741	746	
Mean **	766	765	757	758	758	751	763	746	738	730	720	721	725	724	728	741	
JUNE																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	760	752	751	754	757	760	760	753	737	728	730	733	697	741	744	744	
2 **	762	770	762	754	750	754	751	749	721	708	724	719	720	728	730	737	
3	760	759	752	754	753	753	755	740	725	712	720	725	723	728	738	746	
4	760	760	754	750	755	758	760	760	747	732	726	730	724	728	740	743	
5	759	753	754	751	744	761	760	752	737	728	729	732	730	733	737	747	
6	764	763	765	764	769	773	770	761	757	754	749	750	750	745	749	760	
7	758	755	750	749	753	758	753	753	751	745	745	758	753	752	727	736	
8	757	764	756	757	753	748	734	730	732	729	730	725	738	733	729	745	
9	753	752	753	757	761	760	755	748	740	741	742	740	739	741	741	754	
10 *	756	759	757	758	757	757	749	741	740	737	734	736	732	737	750	757	
11 *	761	761	760	760	760	759	756	748	740	738	735	738	745	748	756	769	
12	769	768	770	775	770	756	766	756	751	746	741	736	739	747	753	762	
13 *	761	761	761	761	762	761	758	751	745	740	747	756	759	756	754	765	
14	773	765	764	764	766	768	766	760	756	749	747	745	742	743	751	760	
15	793	783	779	779	781	778	776	772	762	750	748	758	757	744	752	756	
16	785	775	772	754	757	757	749	738	724	724	736	746	750	756	767	778	
17	766	766	767	765	759	760	758	755	745	735	729	724	721	739	756	766	
18	760	758	758	759	764	765	758	755	749	738	729	726	733	744	750	768	
19	748	748	754	752	765	765	755	746	731	719	709	711	719	719	730	738	
20	761	762	758	760	766	761	754	748	750	741	726	727	728	731	742	755	
21 **	765	776	776	746	756	759	753	742	728	732	725	716	707	690	731	716	
22 **	753	738	709	748	779	742	710	689	675	676	678	698	670	677	687	729	
23	747	752	750	738	739	735	731	725	725	721	716	716	716	718	733	728	
24	747	748	752	748	745	744	740	736	731	716	713	713	723	743	751	754	
25	760	758	759	753	755	756	752	744	737	730	726	727	744	749	755	768	
26	756	755	756	755	752	751	746	739	736	735	736	743	746	746	769	765	
27	756	757	758	759	759	758	740	717	728	731	726	726	731	725	728	740	
28 *	760	760	759	764	765	764	759	754	744	734	736	745	756	756	758	765	
29 **	777	776	778	782	780	719	766	754	754	739	725	718	715	718	726	735	
30 *	756	750	746	751	751	749	746	739	735	722	714	715	719	725	737	746	
Mean	761	760	758	757	759	756	753	745	738	731	729	731	731	735	742	751	
Mean *	759	758	757	759	759	758	754	747	741	734	733	738	742	744	751	760	
Mean **	763	762	755	757	764	747	748	737	723	717	716	717	702	711	724	732	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m	h m	$\gamma$			
752	744	754	756	758	763	760	762	745	745	03 32	783	10 27	698	85	1
744	742	746	753	752	753	752	752	740	740	00 33	768	09 30	709	59	2
744	749	750	755	758	760	758	757	746	746	20 52	762	10 55	720	42	3 *
754	767	772	763	762	755	752	729	749	749	19 56	785	23 17	719	66	4
780	732	769	756	754	757	755	744	751	751	16 42	815	17 10	718	97	5
746	754	757	756	753	773	755	755	741	741	21 12	797	10 57	679†	118	6 **
760	764	769	763	754	761	767	758	744	744	17 56	778	11 50	692	86	7 **
763	765	768	760	755	774	761	753	746	746	21 58	788	11 47	717	71	8
749	760	757	755	754	750	750	753	746	746	17 50	767	19 32	689	78	9
754	759	765	768	768	769	774	785	753	753	23 44	798	12 27	729	69	10
749	770	754	776	767	763	762	760	755	755	00 06	796	13 40	725	71	11
750	766	771	765	763	757	760	776	749	749	23 37	788	10 11	713	75	12
746	755	760	753	751	752	753	751	744	744	01 02	788	11 48	708	80	13
744	753	760	761	756	756	757	754	741	741	03 39	769	11 01	693	76	14
754	762	772	768	764	755	756	758	747	747	18 36	777	13 30	723	54	15 *
745	751	759	759	764	759	765	760	748	748	06 33	778	14 53	694	84	16 **
754	758	761	759	758	759	760	758	743	743	00 20	768	12 30	699	69	17
760	765	768	765	764	762	763	765	748	748	18 26	772	11 33	714	58	18 *
763	771	772	775	777	769	773	803	759	759	23 24	821†	10 03	726	95	19
753	772	769	766	773	766	762	761	754	754	05 29	788	13 24	721	67	20
765	774	781	779	769	771	775	772	759	759	19 32	788	07 25	741	47	21 *
792	779	782	775	767	765	767	769	770	770	16 54	805	10 41	756	49	22
780	763	769	757	757	760	761	761	759	759	16 10	802	12 36	728	74	23
759	764	771	770	770	770	773	781	758	758	23 33	788	08 49	737	51	24
749	767	778	745	740	737	736	739	747	747	06 36	806	13 31	712	94	25 **
763	770	774	774	773	768	765	770	747	747	18 46	778	12 17	707	71	26
754	760	761	762	762	759	752	754	750	750	00 12	788	09 23	725	63	27
768	766	772	770	760	770	757	759	752	752	18 03	792	11 10	729	63	28
759	762	768	773	772	771	770	764	754	754	19 50	778	12 41	730	48	29 *
773	773	786	790	784	779	781	793	765	765	23 50	798	08 45	738	60	30
753	756	773	765	761	761	763	761	761	761	00 00	795	10 06	718	77	31 **
757	761	767	764	762	762	761	762	751	751	-	787	-	716	70.9	Mean
756	762	768	768	765	764	764	763	751	751	-	775	-	726	49.8	Mean *
751	758	767	758	754	758	757	755	748	748	-	791	-	699	91.8	Mean **

18000  $\gamma$  + Tabular Quantities (in  $\gamma$ )

JUNE

										h m	h m	$\gamma$			
777	753	770	767	763	761	760	767	751	751	16 23	826	12 12	679	147	1 **
761	757	763	759	758	758	760	760	746	746	01 07	789	09 16	695	94	2 **
753	760	766	763	760	760	760	761	747	747	18 30	767	09 43	707	60	3
745	752	759	762	761	762	762	760	750	750	21 36	767	12 48	715	52	4
761	771	775	777	763	763	768	770	752	752	18 55	783	10 08	722	61	5
785	822	776	770	772	767	762	759	765	765	17 20	863†	13 26	737	126	6
758	774	774	775	760	764	764	760	755	755	17 30	792	14 39	699	93	7
753	762	766	770	764	768	760	759	748	748	19 37	775	15 07	715	60	8
751	758	766	780	765	765	758	757	753	753	19 17	783	09 03	734	49	9
760	763	764	765	763	762	762	761	752	752	18 10	766	12 48	724	42	10 *
773	769	768	770	773	771	771	769	758	758	20 15	775	10 22	732	43	11 *
770	772	772	769	766	764	763	762	760	760	16 32	779	11 24	732	47	12
766	772	775	773	772	770	768	768	761	761	17 59	776	09 33	739	37	13 *
766	771	776	782	782	780	774	780	764	764	23 45	805	12 22	741	64	14
767	775	781	773	769	770	776	776	769	769	00 04	802	14 03	737	65	15
759	770	777	776	774	767	761	764	759	759	00 58	803	09 10	720	83	16
772	778	781	784	776	768	766	764	758	758	19 22	785	12 33	715	70	17
764	792	797	788	784	794	766	755	761	761	21 38	821	11 40	722	99	18
752	765	769	770	770	771	766	760	747	747	21 01	776	10 46	706	70	19
773	785	796	784	790	788	793	786	761	761	18 51	811	10 34	723	88	20
744	755	772	777	751	735	716	718	741	741	24 00	792	13 23	678	114	21 **
722	759	804	796	776	778	771	769	731	731	18 38	832	12 31	662†	170	22 **
747	757	756	758	763	759	755	755	739	739	00 02	773	11 56	712	61	23
758	754	756	760	761	760	758	760	745	745	19 20	764	10 42	710	54	24
775	780	764	760	764	767	766	756	754	754	17 35	784	11 01	714	70	25
770	763	750	765	764	759	758	758	753	753	14 42	793	10 04	732	61	26
750	755	759	762	764	762	759	759	746	746	20 57	765	07 28	711	54	27
769	774	776	777	772	773	772	771	761	761	19 39	781	09 05	732	49	28 *
746	756	770	765	758	755	757	755	751	751	04 19	796	05 20	683	113	29 **
750	760	768	765	765	765	766	762	746	746	18 23	774	11 02	710	64	30 *
760	768	772	771	767	766	763	762	753	753	-	790	-	715	75.3	Mean
764	768	770	770	769	768	768	766	756	756	-	774	-	727	47.0	Mean *
750	756	776	773	761	757	753	754	744	744	-	807	-	679	127.6	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	760	763	763	768	764	754	745	741	741	739	727	723	736	731	734	741	
2	765	759	757	756	755	750	749	737	729	736	735	733	742	747	760	772	
3	775	765	765	765	766	765	748	746	746	747	741	724	714	725	730	746	
4	767	765	765	767	770	769	762	755	747	745	744	745	753	755	767	766	
5 **	754	754	767	759	744	757	754	744	735	725	720	714	728	727	740	730	
6	756	758	758	747	761	757	754	737	735	735	730	728	737	739	747	766	
7	762	759	742	752	749	746	735	721	732	725	718	725	733	734	756	748	
8	760	761	761	757	752	754	752	740	731	729	737	742	728	735	745	755	
9	757	755	757	764	764	770	741	744	744	738	723	719	725	739	746	761	
10	760	775	765	768	757	775	761	735	731	715	715	715	733	738	747	767	
11 *	753	754	760	763	763	757	755	753	743	735	725	730	734	735	752	763	
12 **	759	757	759	759	765	765	755	738	725	725	709	729	745	755	765	774	
13 **	764	763	762	765	767	769	767	757	747	737	738	755	757	786	885	822	
14 **	728	738	733	736	745	743	739	728	658	541	592	639	650	707	719	717	
15 **	724	728	732	725	709	696	689	688	682	674	677	685	689	705	739	728	
16	704	714	736	716	707	713	713	707	700	694	694	707	719	724	743	728	
17	748	750	747	746	734	733	734	742	730	715	694	680	689	707	698	724	
18 **	752	737	751	737	736	716	741	714	706	697	682	687	610	664	683	762	
19	696	707	732	733	729	711	706	701	692	688	688	694	702	713	713	731	
20	737	737	736	742	737	737	734	742	737	732	728	725	722	728	738	746	
21	766	774	796	758	752	742	704	686	689	700	696	698	700	707	716	725	
22	755	750	744	748	745	750	733	721	711	732	737	735	728	724	714	729	
23	754	750	748	750	754	755	748	737	734	727	719	727	737	750	758	755	
24	745	745	741	747	748	745	754	745	734	716	716	724	705	719	729	753	
25	756	752	749	754	755	764	742	741	717	703	703	717	726	727	741	754	
26	784	766	764	760	766	760	764	751	744	734	724	724	725	720	728	744	
27 **	802	802	802	812	811	803	793	782	610	466	551	711	731	738	704	678	
28	727	706	708	699	704	704	702	706	696	685	701	709	705	708	720	728	
29 *	729	732	732	725	726	742	730	721	719	714	715	718	718	724	723	732	
30 *	757	752	737	742	749	751	740	725	728	720	718	718	723	729	730	734	
31 *	749	751	750	750	750	755	750	745	737	726	718	712	711	718	723	735	
Mean	752	751	752	751	749	749	742	733	720	706	707	716	718	728	738	746	
Mean *	749	749	748	748	751	754	746	736	730	724	717	721	726	732	739	748	
Mean **	760	759	763	762	761	758	759	745	691	633	657	701	695	724	746	742	
AUGUST																	
	18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																
1	760	761	760	762	759	760	760	747	733	722	725	730	736	740	744	746	
2 **	822	767	768	772	749	750	746	739	724	729	721	698	702	693	705	721	
3	762	756	754	751	758	741	733	725	706	703	718	721	713	714	739	743	
4 **	758	746	754	749	751	742	735	738	732	721	705	709	726	730	730	748	
5	757	756	754	751	752	748	752	742	741	727	719	736	750	750	738	738	
6	773	756	757	759	756	756	755	749	738	737	729	736	752	750	749	759	
7 *	755	756	757	759	759	759	754	753	746	740	739	740	745	746	743	750	
8	763	762	762	762	767	773	747	760	751	723	710	717	735	741	739	753	
9 *	756	754	759	762	757	746	742	737	730	729	732	733	730	726	733	743	
10	767	770	774	765	766	769	771	753	739	728	723	725	723	729	714	720	
11 **	773	769	766	765	772	764	761	753	733	723	734	739	738	734	729	723	
12	751	747	744	740	749	746	741	727	720	715	712	722	732	730	733	739	
13 *	757	761	766	759	755	757	751	739	733	734	730	730	728	728	731	741	
14	763	760	760	759	760	759	754	742	729	720	717	724	723	725	739	757	
15	768	764	761	760	760	757	743	733	731	730	730	733	736	744	745	755	
16	773	764	761	759	752	760	758	747	736	728	727	730	738	745	750	761	
17	763	760	763	766	762	759	752	745	736	731	727	737	749	759	765	759	
18	767	767	767	762	764	766	760	755	748	737	728	732	744	756	757	760	
19	773	771	775	769	765	776	764	751	761	749	731	724	723	726	733	737	
20	762	759	760	760	759	758	755	750	743	734	728	720	726	736	743	761	
21	760	760	760	760	759	760	757	750	741	731	728	727	731	738	747	756	
22 *	767	764	763	764	764	764	760	750	740	735	736	739	748	757	759	763	
23 *	765	764	762	763	763	760	756	747	741	741	739	735	738	744	750	756	
24	769	769	769	769	768	766	762	756	744	732	731	740	747	755	767	768	
25	781	786	776	772	773	766	764	757	744	740	749	745	750	761	745	751	
26	767	773	771	767	772	776	766	757	745	734	745	753	753	759	761	765	
27	756	742	755	755	759	758	750	747	746	742	741	738	739	741	750	760	
28	773	762	763	757	762	760	756	746	735	726	723	728	737	744	750	758	
29	764	770	762	761	759	760	758	752	743	738	737	730	733	743	753	757	
30 **	781	740	735	740	752	753	753	742	733	725	707	700	682	694	713	743	
31 **	742	758	740	740	748	738	734	716	696	719	721	716	712	726	716	730	
Mean	766	761	761	759	760	758	753	745	736	730	727	729	733	738	741	749	
Mean *	760	760	761	761	760	757	753	745	738	736	735	735	738	740	743	751	
Mean **	775	756	753	753	754	749	746	738	724	723	718	712	712	715	719	733	

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$	JULY	
756	754	766	775	774	768	763	763	752	19 42	777	11 34	716	61	1
759	756	775	776	769	770	775	783	756	19 03	801	10 50	722	79	2
757	766	777	785	785	774	768	768	756	18 45	792	12 18	691	101	3
779	768	775	785	797	787	754	742	764	20 59	807	10 48	731	76	4
735	739	758	764	759	765	774	752	746	22 07	790	15 43	702	88	5 **
787	776	760	769	762	756	755	755	753	16 44	812	11 03	721	91	6
763	758	764	765	768	763	760	759	747	16 53	779	11 09	711	68	7
758	775	771	765	765	763	763	765	753	17 46	785	12 27	723	62	8
759	764	769	772	764	759	761	761	752	05 23	775	10 48	714	61	9
754	753	764	767	765	764	756	754	751	05 03	781	09 41	710	71	10
775	794	793	773	780	766	770	765	758	18 38	801	10 45	721	80	11 *
780	783	775	767	770	768	766	765	757	17 06	784	10 36	691	93	12 *
752	830	800	777	768	753	775	755	773	14 31	962†	11 17	670	292	13 **
715	741	743	723	738	713	705	725	705	15 17	800	09 47	461	339	14 **
738	747	748	745	756	744	731	719	717	19 57	773	09 45	669	104	15
748	775	786	768	759	754	748	745	729	18 43	800	00 54	680	120	16
737	754	794	816	776	806	747	754	740	21 16	860	11 19	671	189	17
812	810	752	733	714	718	694	687	721	17 28	840	12 20	564	276	18 **
746	746	752	745	741	737	739	739	720	18 37	754	00 15	679	75	19
767	779	797	796	794	781	771	774	751	18 47	820	12 17	714	106	20
732	733	740	743	741	744	750	750	731	02 29	809	07 47	672	137	21
745	754	757	755	754	754	754	754	741	00 25	761	08 47	706	55	22
744	786	784	766	758	763	754	744	750	17 36	808	16 09	715	93	23
752	759	772	773	762	757	759	758	744	18 58	777	12 25	700	77	24
766	766	764	764	762	759	763	765	746	19 47	771	10 37	699	72	25
756	762	760	769	814	782	784	798	758	19 53	861	13 57	716	145	26 **
682	701	735	733	747	793	758	733	728	21 20	860	09 23	401†	459	27 **
725	738	743	751	744	746	738	731	718	18 53	759	09 40	680	79	28
746	757	762	764	758	758	754	756	736	19 33	769	09 32	710	59	29 *
738	752	761	762	771	759	754	753	742	20 20	781	10 46	713	68	30 *
740	758	766	759	759	762	761	760	744	18 50	770	11 40	706	64	31 *
752	762	767	765	764	761	755	753	743	-	801	-	680	120.6	Mean
756	769	771	765	768	763	761	760	747	-	781	-	708	72.8	Mean *
739	764	758	746	745	748	741	730	734	-	850	-	560	290.8	Mean **
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$	AUGUST	
752	751	762	769	767	763	770	779	752	23 56	783	09 55	721	62	1
738	758	753	748	743	755	761	762	743	00 35	857†	13 35	682	175	2 **
751	762	757	761	758	762	767	766	743	22 52	775	09 19	691	84	3
755	761	767	764	760	763	759	755	744	18 08	775	11 02	690	85	4 **
748	747	752	757	762	761	766	769	749	24 00	785	09 53	705	80	5
758	757	757	762	762	764	762	758	754	00 00	785	10 54	725	60	6
755	762	769	767	767	768	771	766	755	22 50	782	11 00	737	45	7 *
757	766	773	744	753	756	757	759	751	18 27	784	10 29	704	80	8
755	759	764	767	768	769	768	766	749	20 49	770	13 53	724	46	9 *
730	745	749	756	763	762	760	763	749	02 14	779	14 28	707	72	10
724	752	762	773	779	759	749	770	752	23 20	795	15 50	712	83	11 **
752	766	770	786	773	769	780	764	746	19 34	794	10 32	710	84	12
753	762	769	770	771	769	767	765	751	20 00	775	13 08	725	50	13 *
779	747	761	778	775	773	771	767	752	16 46	791	12 24	717	74	14
754	760	757	764	765	762	763	767	752	23 53	777	10 55	722	55	15
762	760	765	770	773	771	770	763	755	00 05	778	10 48	725	53	16
762	775	775	770	774	762	761	764	757	17 51	781	10 35	724	57	17
773	769	768	769	771	773	775	776	760	23 09	780	10 18	727	53	18
747	761	758	759	757	760	761	766	754	05 17	780	12 08	713	67	19
772	754	747	756	761	761	761	761	751	16 22	780	11 38	711	69	20
764	758	763	765	771	771	772	769	754	20 52	775	11 32	721	54	21
768	774	774	773	771	769	768	768	760	18 34	776	09 22	732	44	22 *
760	764	769	773	773	774	773	771	758	21 31	777	11 54	733	44	23 *
773	781	769	784	787	782	780	783	765	17 08	797	09 55	728	69	24
762	769	774	775	776	789	778	773	765	21 03	794	09 39	737	57	25
767	769	773	787	781	765	768	757	764	19 53	801	09 19	724	77	26
756	762	766	767	767	768	768	769	754	23 48	773	11 59	737	36	27
759	764	766	772	771	762	763	764	754	00 12	777	10 47	718	59	28
769	785	778	759	738	756	762	787	756	23 36	810	20 12	726	84	29
719	713	729	753	751	773	752	749	735	21 24	800	12 53	656†	144	30 **
753	769	755	757	757	756	776	778	740	22 30	794	07 58	684	110	31 **
756	761	763	766	766	766	766	767	752	-	786	-	715	71.4	Mean
758	764	769	770	770	770	769	767	755	-	776	-	730	45.8	Mean *
738	751	753	759	758	761	759	763	743	-	804	-	685	119.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
SEPTEMBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	765	768	735	746	739	720	714	746	740	716	696	712	727	728	731	735	
2	751	749	747	747	750	749	746	729	731	711	716	730	729	732	736	750	
3	768	752	752	754	745	752	744	749	745	738	722	722	727	732	741	741	
4	760	757	755	758	758	753	752	739	734	731	734	735	742	744	750	752	
5	756	763	762	752	753	754	752	740	743	743	738	733	728	734	734	744	
6	760	759	761	761	752	754	751	745	740	733	725	726	726	734	746	749	
7 *	766	766	764	761	759	763	760	757	752	750	745	743	748	754	755	752	
8 *	769	766	765	765	765	763	763	765	762	754	750	747	752	756	761	766	
9	775	773	774	775	772	764	757	768	767	743	741	747	757	764	764	762	
10	762	754	758	760	758	754	751	736	726	729	735	748	751	755	759	756	
11	770	766	765	765	760	756	762	759	794	743	741	745	752	751	752	749	
12	752	752	756	757	751	762	731	738	734	725	718	711	718	726	735	747	
13	757	754	756	757	757	758	755	751	738	730	725	734	744	754	762	760	
14 **	776	777	764	763	755	763	768	762	741	742	733	747	739	723	716	745	
15	747	750	749	753	754	750	742	736	724	715	705	714	726	732	745	747	
16	759	757	753	754	754	753	754	753	744	736	727	719	730	736	742	752	
17	771	780	757	754	743	743	758	750	742	732	733	725	726	738	743	742	
18	760	760	762	764	756	752	752	751	745	742	739	741	744	747	743	736	
19 *	762	762	761	766	763	760	761	762	759	754	744	743	741	744	746	752	
20	770	765	763	768	773	775	773	779	772	764	751	741	735	735	741	744	
21 *	768	767	766	766	766	765	762	758	755	752	747	737	734	735	741	750	
22	767	766	766	766	768	766	767	766	762	758	757	751	747	739	751	755	
23 *	766	766	765	765	765	764	760	752	744	737	736	741	744	752	760	760	
24 **	773	774	774	774	777	783	786	782	766	752	743	731	748	757	740	712	
25 **	750	754	740	741	762	739	732	721	733	717	710	712	695	702	720	734	
26	753	750	753	764	753	755	754	755	750	730	721	711	717	734	731	735	
27	767	763	754	760	747	751	762	737	729	712	691	691	704	732	730	731	
28	754	753	752	752	752	752	752	750	746	738	731	731	737	742	744	745	
29	769	759	755	758	760	764	763	761	751	742	735	731	730	736	744	743	
30 **	763	765	760	762	770	776	762	760	758	750	741	737	731	738	746	751	
Mean	763	762	758	760	758	757	755	752	746	737	731	731	734	740	744	747	
Mean *	766	765	764	765	764	763	761	759	754	749	744	742	744	748	753	756	
Mean **	765	768	755	757	761	756	752	754	748	735	725	728	728	730	731	735	
OCTOBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	674	670	649	698	734	763	689	697	640	636	700	669	660	674	694	701	
2	720	718	717	719	720	722	726	729	727	720	710	702	703	710	718	719	
3	734	737	738	738	740	740	738	732	724	716	711	711	714	719	723	732	
4	739	739	740	744	745	745	746	743	735	724	716	718	720	726	723	732	
5	751	742	746	750	751	750	749	749	741	729	721	719	722	727	734	738	
6	754	754	753	755	756	756	757	758	750	740	732	728	725	729	734	736	
7	747	749	765	765	766	768	759	752	746	736	730	732	727	736	746	749	
8	758	757	757	758	758	756	757	760	767	754	741	733	730	735	740	743	
9	762	767	760	761	760	759	761	762	755	747	736	733	731	738	741	748	
10 *	756	754	756	758	759	760	760	758	749	739	730	729	731	738	745	750	
11	761	763	760	761	766	770	771	779	761	735	735	727	719	729	739	742	
12	772	745	763	757	749	752	753	751	731	722	726	722	725	729	720	717	
13	751	754	750	751	752	769	759	759	740	729	728	723	722	728	734	740	
14	768	749	749	749	750	752	753	748	747	744	729	719	720	723	739	742	
15 *	756	755	756	757	759	759	759	759	751	741	731	730	739	748	755	758	
16 *	763	762	761	760	759	760	759	761	757	748	737	731	735	743	749	750	
17 *	763	763	764	764	764	764	764	765	764	758	748	742	748	758	761	762	
18 *	779	778	777	777	777	775	777	769	763	758	749	742	740	746	747	751	
19	766	769	771	777	769	767	766	763	759	751	747	743	744	748	753	756	
20	753	755	733	748	745	745	742	745	744	734	731	725	725	730	736	745	
21	749	750	756	753	755	757	759	756	751	742	747	750	742	739	747	754	
22	750	751	753	750	754	757	757	755	751	744	732	737	739	742	742	740	
23	757	755	756	759	763	761	760	755	750	742	742	739	741	748	751	748	
24	759	759	761	763	759	760	759	761	754	743	733	741	742	743	743	745	
25	764	763	762	763	765	767	767	765	759	751	743	744	750	748	745	739	
26 **	757	758	759	773	762	763	784	765	738	709	712	711	712	719	726	724	
27 **	748	745	739	753	779	767	757	750	739	726	716	729	727	728	744	741	
28 **	741	743	745	747	741	743	748	748	760	749	730	695	635	649	672	661	
29 **	696	700	658	677	669	693	706	734	720	717	718	696	697	701	707	712	
30	726	728	729	729	733	734	735	736	730	723	722	720	704	717	723	725	
31	741	739	738	737	741	742	736	745	745	739	726	719	719	719	727	733	
Mean	749	747	746	750	752	754	752	752	743	734	729	724	722	728	734	737	
Mean *	763	762	763	763	764	764	764	762	757	749	739	735	739	747	751	754	
Mean **	723	723	710	730	737	746	737	739	719	707	715	700	686	694	709	708	

\* International Quiet Day. \*\* International Disturbed Day.

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
SEPTEMBER															
										h m	h m	$\gamma$			
743	757	756	766	747	750	759	755	740	740	18 58	797	10 30	682	115	1 **
748	751	756	762	765	758	766	763	745	745	23 58	779	09 46	695	84	2
752	748	752	753	759	756	758	757	747	747	00 02	780	10 53	708	72	3
755	763	764	764	766	771	763	764	753	753	21 30	779	11 17	727	52	4
744	752	764	760	748	754	755	757	748	748	01 58	774	12 42	721	53	5
755	761	765	767	769	768	766	766	752	752	20 02	770	12 40	720	50	6
752	760	766	773	773	774	773	772	760	760	20 49	778	11 28	743	35	7 *
772	773	775	775	776	778	781	775	766	766	22 01	784	11 24	747	37	8 *
759	758	762	767	769	770	760	764	763	763	08 02	779	09 52	734	45	9
761	754	763	767	771	772	769	773	755	755	23 26	778	08 54	726	52	10
755	763	762	754	745	742	751	752	755	755	00 48	772	21 40	730	42	11
752	754	754	756	756	757	758	782	745	745	24 00	784	11 30	699	85	12
768	772	754	760	767	772	762	766	755	755	00 06	790	10 15	724	66	13
750	742	760	752	745	758	776	774	753	753	22 33	790	14 34	699	91	14 **
746	750	752	757	759	756	754	755	742	742	20 28	759	10 35	702	57	15
753	755	751	758	757	754	758	764	749	749	24 00	768	11 19	713	55	16
748	746	750	752	755	758	756	757	748	748	00 24	786	11 51	719	67	17
729	745	758	760	762	762	762	763	751	751	03 35	771	16 26	725	46	18
757	757	762	762	762	761	763	764	757	757	03 26	769	12 19	738	31	19 *
749	747	759	762	754	753	765	767	759	759	07 30	785	13 40	731	54	20
760	769	773	772	768	768	770	769	759	759	18 13	776	12 43	731	45	21 *
756	766	774	773	760	761	767	768	762	762	18 23	777	13 13	731	46	22
764	773	776	780	776	776	776	775	761	761	19 48	782	09 38	736	46	23 *
721	715	740	753	742	756	744	731	753	753	06 42	789	17 49	690	99	24 **
744	749	752	754	753	754	757	761	737	737	04 18	777	12 20	681	96	25 **
730	755	752	757	769	760	757	765	746	746	17 35	795	11 31	708	87	26
730	742	745	752	758	762	760	758	740	740	00 10	777	11 58	673†	104	27
747	750	754	759	761	760	759	768	750	750	23 49	783	10 35	727	56	28
743	746	754	760	761	763	769	765	753	753	05 44	768	12 29	728	40	29
755	758	763	770	749	872	750	719	759	759	21 12	958†	23 38	690	268	30 **
750	754	759	762	760	765	762	762	752	752	-	785	-	716	69.2	Mean
761	766	770	772	771	771	773	771	761	761	-	778	-	739	38.8	Mean *
743	744	754	759	747	778	757	748	748	748	-	822	-	688	133.8	Mean **
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
OCTOBER															
										h m	h m	$\gamma$			
706	712	716	721	723	721	723	721	695	695	05 07	832†	02 45	530	302	1 **
722	723	739	739	737	736	736	734	723	723	18 52	741	12 13	698	43	2
736	738	740	740	739	733	739	739	731	731	18 30	743	10 49	706	37	3
733	729	732	742	743	737	742	750	735	735	23 45	762	10 57	714	48	4
744	746	751	756	755	754	755	754	743	743	00 02	763	11 42	718	45	5
743	739	743	750	753	755	750	752	746	746	21 00	770	11 58	723	47	6
750	752	755	758	758	759	760	759	751	751	05 04	772	12 47	724	48	7
750	752	759	762	764	764	764	762	753	753	08 32	770	12 36	727	43	8
750	753	758	759	759	758	758	758	753	753	01 30	768	11 53	728	40	9
757	760	765	767	763	760	761	765	753	753	23 03	774	11 40	727	47	10 *
748	756	758	761	745	749	755	761	752	752	07 20	783	12 23	707	76	11
724	746	742	744	749	748	755	753	741	741	00 30	785	14 53	713	72	12
739	729	741	753	758	757	754	763	745	745	24 00	786	13 05	722	64	13
742	748	752	757	758	758	756	761	746	746	00 00	786	11 43	713	73	14
757	759	762	765	767	767	763	763	755	755	21 28	769	11 12	727	42	15 *
755	757	761	762	763	764	764	764	755	755	00 05	765	11 46	728	37	16 *
763	767	769	770	771	771	782	781	764	764	22 11	786	11 22	741	45	17 *
758	763	769	766	762	763	761	762	763	763	00 12	783	12 35	737	46	18 *
760	764	767	769	764	759	755	749	760	760	03 03	784	11 35	743	41	19
750	751	752	753	754	752	751	750	744	744	01 19	769	11 57	724	45	20
753	742	739	742	753	744	745	745	749	749	02 08	758	13 24	734	24	21
749	757	761	762	761	761	763	761	751	751	22 44	765	10 10	730	35	22
749	759	763	763	764	767	750	755	754	754	21 30	776	11 32	736	40	23
748	749	752	755	755	759	760	762	753	753	03 20	766	10 44	731	35	24
732	739	730	741	747	757	764	759	753	753	22 00	775	18 20	721	54	25
721	739	744	748	756	702	709	721	738	738	20 19	796	22 52	696	100	26 **
736	727	719	737	722	710	738	736	738	738	03 58	796	21 32	679	117	27 **
632	657	586	563	490	531	637	696	679	679	08 32	776	19 28	444†	332	28 **
719	723	723	725	725	725	735	728	709	709	22 31	755	02 28	627	128	29 **
722	729	736	738	735	737	740	743	729	729	23 30	746	12 15	701	45	30
739	744	747	748	747	747	744	744	738	738	19 46	750	13 40	715	35	31
738	742	743	746	743	742	747	750	742	742	-	773	-	702	70.5	Mean
758	761	765	766	765	765	766	767	758	758	-	775	-	732	43.4	Mean *
703	712	698	699	683	678	708	720	712	712	-	791	-	595	195.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE II. - HOURLY MEANS OF HORIZONTAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	747	745	746	745	747	753	757	758	748	739	730	723	728	738	743	748	
2	748	749	751	752	756	758	758	754	746	738	733	733	728	737	740	745	
3	753	752	751	748	752	756	758	756	745	735	731	729	730	735	741	746	
4	755	751	752	752	754	756	759	757	753	748	740	739	739	745	752	756	
5 **	764	754	756	757	766	765	770	769	753	737	734	735	738	711	703	723	
6	745	743	744	743	748	770	764	762	737	726	724	718	719	727	738	742	
7 **	760	754	758	751	754	759	758	747	737	722	702	681	680	687	683	707	
8 **	730	747	762	740	740	732	738	731	736	728	716	708	701	711	729	734	
9	740	743	752	746	748	751	754	759	741	738	726	714	711	720	731	738	
10	748	746	742	743	748	753	760	762	756	745	737	734	734	738	742	747	
11	753	752	752	753	757	760	761	759	751	745	739	738	742	749	752	752	
12	767	770	758	750	758	760	760	760	748	740	734	728	720	720	720	719	
13	755	754	750	748	748	751	752	755	754	750	746	746	747	750	753	753	
14	760	759	760	763	768	776	772	762	752	761	753	750	748	751	755	756	
15 *	752	753	754	756	758	759	758	756	750	746	741	740	741	747	753	756	
16	760	760	759	759	760	760	761	761	757	750	745	746	753	755	760	762	
17 **	754	755	757	759	761	769	771	772	767	762	758	754	757	763	746	723	
18 **	788	749	745	757	751	754	763	774	740	693	709	719	689	701	711	691	
19	734	737	735	749	754	752	750	741	749	743	739	733	732	738	746	747	
20	752	752	752	756	762	766	775	760	754	759	756	746	731	722	730	739	
21	747	757	751	757	759	758	758	756	751	751	750	747	746	749	753	755	
22 *	758	760	750	753	758	760	764	765	762	758	755	750	750	757	758	757	
23 *	758	757	758	759	759	762	765	767	765	758	755	751	756	759	759	760	
24 *	757	756	752	754	756	757	761	762	760	757	752	747	748	753	753	753	
25	764	762	763	764	765	768	769	769	766	756	755	754	752	752	752	750	
26	760	759	760	760	765	767	768	758	767	759	759	749	757	758	759	760	
27	757	755	755	756	758	760	764	766	766	760	754	750	749	748	755	757	
28	765	762	761	763	766	768	768	767	765	760	755	752	754	754	755	755	
29	765	761	762	764	761	762	765	764	764	758	755	754	757	762	766	766	
30 *	765	764	764	764	766	767	767	766	762	756	749	746	749	754	760	762	
Mean	755	754	754	754	757	760	762	760	753	746	741	737	736	740	743	745	
Mean *	758	758	756	757	759	761	763	763	760	755	750	747	749	754	757	758	
Mean **	759	752	756	753	754	756	760	759	747	728	724	719	713	715	714	716	
DECEMBER																	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	766	767	770	774	782	782	784	773	755	764	745	717	711	661	635	694	
2 **	707	757	737	724	730	742	739	744	735	726	698	692	704	682	662	666	
3 **	711	734	758	779	766	750	736	709	689	680	693	686	662	697	707	706	
4	738	737	738	742	743	746	746	750	745	726	728	727	724	736	738	736	
5	749	748	747	746	752	755	755	754	754	750	746	740	739	744	754	757	
6	745	746	755	758	756	753	754	756	756	750	748	747	739	727	725	727	
7	750	754	756	755	759	765	768	763	759	751	748	741	725	737	746	747	
8 *	752	752	751	754	756	758	758	758	756	751	749	748	748	752	756	757	
9	759	760	760	763	765	767	767	768	765	757	750	749	749	754	755	758	
10	760	759	759	765	765	764	766	767	766	758	752	744	744	752	757	753	
11	756	768	757	752	763	766	769	767	750	740	739	738	737	739	738	737	
12	744	745	745	752	748	749	751	753	755	752	752	751	750	750	751	754	
13	761	760	760	761	762	765	766	767	767	764	761	759	760	762	763	765	
14	757	759	761	762	765	767	766	765	766	759	755	753	755	760	764	771	
15	760	762	765	770	772	779	775	773	770	761	752	744	739	745	750	757	
16	758	760	760	762	768	771	772	774	774	766	755	750	752	756	760	764	
17	762	761	760	768	767	767	766	766	763	760	752	751	757	760	762	760	
18 *	766	767	767	772	775	777	776	776	772	768	762	758	759	762	766	769	
19 *	767	766	767	769	772	775	776	776	774	767	760	757	760	765	767	770	
20 *	769	769	771	772	775	777	778	776	774	766	754	750	754	761	766	767	
21	767	767	767	776	777	778	781	779	778	767	757	756	761	767	773	775	
22	771	769	770	774	776	782	782	783	779	772	759	755	755	748	751	756	
23	765	763	767	783	777	776	784	776	775	769	759	747	738	745	758	761	
24	775	768	766	767	769	774	777	780	778	775	763	756	751	755	757	744	
25 *	766	765	766	766	767	768	769	771	768	761	755	749	750	755	761	763	
26	769	768	768	770	773	774	774	775	774	769	765	758	756	756	759	764	
27	771	785	779	763	766	771	770	769	777	775	767	759	759	767	769	772	
28 **	766	767	764	762	768	774	775	777	776	761	744	735	747	750	748	699	
29	765	754	759	766	757	761	763	762	762	758	749	748	752	755	759	765	
30 **	754	758	762	767	772	757	771	770	767	753	748	744	735	741	741	732	
31	761	759	758	761	761	764	767	762	761	755	747	741	743	749	759	761	
Mean	757	760	760	763	765	766	767	766	763	756	749	744	742	745	747	749	
Mean *	764	764	764	767	769	771	771	771	769	763	756	752	754	759	763	765	
Mean **	741	757	758	761	764	761	761	755	744	737	726	715	712	706	699	699	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
749	750	745	739	748	750	750	748	745	07 01	759	11 37	719	40	1
749	750	754	754	753	750	752	753	748	23 53	762	12 26	724	38	2
753	756	756	755	753	754	756	756	748	22 29	765	12 15	726	39	3
762	759	760	758	760	753	753	748	753	23 58	773	23 35	736	37	4
725	733	744	738	746	745	779	772	747	22 48	801	13 53	693	108	5 **
749	754	756	759	760	759	760	763	746	05 34	776	09 08	712	64	6
714	700	669	680	701	708	717	727	719	00 19	768	19 33	661†	107	7 **
739	741	744	745	739	731	734	739	733	01 54	794	12 45	694	100	8 **
739	746	746	751	749	750	752	747	741	07 23	764	12 42	710	54	9
748	750	750	752	757	758	757	756	748	07 20	765	12 03	731	34	10
755	759	761	763	763	762	769	760	754	22 27	777	11 41	736	41	11
709	727	747	752	750	750	751	769	744	00 42	782	16 54	706	76	12
754	756	760	763	760	760	760	761	754	22 22	765	10 58	743	22	13
757	752	736	731	737	748	758	754	755	04 35	780	18 54	725	55	14
757	758	759	759	759	758	766	760	754	22 47	771	11 33	739	32	15 *
763	765	766	767	766	760	753	758	759	23 13	771	22 39	741	30	16
750	756	754	753	745	744	743	766	756	23 53	816†	15 23	708	108	17 **
701	722	739	713	721	721	732	727	730	00 00	812	12 17	676	136	18 **
748	749	752	754	753	751	754	752	745	04 58	763	00 01	725	38	19
738	735	729	718	729	738	739	751	745	06 45	780	13 38	713	67	20
757	757	757	758	759	757	758	759	754	24 00	765	00 47	741	24	21
757	758	759	762	761	761	759	759	758	00 07	766	12 21	747	19	22 *
763	765	759	759	765	766	765	765	761	07 04	767	11 32	751	16	23 *
755	759	760	763	765	768	768	765	758	21 52	772	11 54	744	28	24 *
756	761	759	762	763	761	762	762	760	06 45	773	15 20	750	23	25
761	758	755	758	765	760	761	757	760	06 39	772	11 22	744	28	26
756	757	759	760	764	767	767	767	759	07 48	769	13 28	745	24	27
754	753	746	755	757	761	764	765	759	06 03	771	18 13	741	30	28
766	767	768	767	766	764	764	761	763	17 56	770	11 34	753	17	29
763	762	761	762	762	766	768	768	761	06 01	771	10 43	744	27	30 *
748	751	750	750	753	753	756	757	751	-	775	-	726	48.7	Mean
759	760	760	761	762	764	765	763	758	-	769	-	745	24.4	Mean *
726	730	730	726	730	730	741	746	737	-	798	-	686	111.8	Mean **

18000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
672	688	696	706	707	699	694	725	728	05 49	787	14 21	582†	205	1 **
651	664	650	660	656	656	646	675	696	01 40	778	20 45	614	164	2 **
706	720	726	735	735	756	734	738	721	03 30	791	12 23	644	147	3 **
722	746	751	751	749	747	755	755	741	22 28	764	16 25	711	53	4
746	712	717	718	733	738	745	748	744	16 01	763	17 35	691	72	5
711	720	727	728	743	749	746	748	742	02 55	769	17 02	694	75	6
749	755	757	758	758	757	756	755	753	06 47	772	12 08	719	53	7
760	762	765	765	765	764	762	760	757	19 49	766	11 35	744	22	8 *
762	763	764	760	758	758	761	760	760	07 50	770	12 03	742	28	9
755	747	746	740	736	744	750	753	754	03 47	768	20 13	730	38	10
738	718	708	699	712	736	744	744	742	01 37	780	19 39	692	88	11
759	760	761	762	762	762	762	762	754	20 50	764	01 07	740	24	12
761	766	768	768	767	764	757	755	763	18 41	772	22 26	751	21	13
772	772	771	768	767	765	758	758	763	17 40	775	22 43	753	22	14
763	765	764	762	761	756	766	757	761	22 08	790	12 10	736	54	15
765	767	763	764	764	763	762	758	763	07 33	777	11 32	749	28	16
758	759	760	764	763	766	766	766	762	03 38	771	11 24	749	22	17
771	772	774	772	771	770	769	767	769	05 59	778	11 46	756	22	18 *
772	767	767	768	768	768	769	768	768	07 00	779	11 10	758	21	19 *
765	764	765	767	765	771	769	768	767	06 30	781	11 06	749	32	20 *
775	775	776	774	771	770	770	770	771	08 12	783	10 52	756	27	21
755	747	748	751	753	760	763	763	763	07 08	783	17 54	741	42	22
766	766	765	766	767	762	777	768	766	22 56	797	12 54	731	66	23
748	754	754	756	765	768	766	767	764	07 15	784	15 52	736	48	24
763	766	767	768	767	768	768	768	764	07 18	772	11 40	748	24	25 *
761	761	759	758	762	765	767	771	766	07 20	777	13 24	754	23	26
774	774	775	776	778	776	774	766	771	01 04	790	12 00	755	35	27
703	729	748	746	747	755	748	767	752	23 53	799†	15 19	690	109	28 **
759	762	765	761	759	760	779	759	760	00 00	794	10 50	739	55	29
734	740	755	758	762	759	753	760	754	04 23	777	15 53	713	64	30 **
759	761	750	751	762	759	762	765	757	06 42	770	11 52	739	31	31
747	749	750	751	753	755	755	756	755	-	778	-	723	55.3	Mean
766	766	768	768	767	768	767	766	765	-	775	-	751	24.2	Mean *
693	708	715	721	721	725	715	733	730	-	786	-	649	137.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JANUARY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	524	523	522	519	517	513	511	512	511	511	512	509	507	513	519	522	
2 *	515	516	516	517	516	515	514	513	511	509	509	508	506	507	511	514	
3	512	512	513	514	514	514	512	510	506	505	508	506	503	506	510	513	
4 *	510	511	512	512	513	513	513	512	509	507	509	510	511	513	512	512	
5 *	507	508	509	509	510	511	512	511	508	506	503	502	502	507	510	511	
6	510	509	509	509	510	510	511	510	507	504	505	506	505	510	512	513	
7	512	512	511	513	512	511	510	510	509	507	507	505	503	507	510	509	
8 **	512	513	514	514	511	510	508	510	512	509	503	500	500	508	514	520	
9 **	519	517	514	510	510	510	509	506	510	512	516	520	520	530	533	539	
10	520	520	520	520	520	520	520	520	519	517	516	513	512	515	515	518	
11 *	514	514	513	513	513	512	514	514	516	517	519	514	512	514	514	513	
12	512	510	510	510	509	510	510	510	512	512	509	509	509	510	511	513	
13	513	513	511	511	511	511	510	510	511	510	507	505	506	510	511	514	
14	521	519	516	514	510	510	510	510	507	510	510	510	510	511	514	514	
15	524	521	519	515	511	509	506	503	502	501	504	505	506	510	515	514	
16	500	504	510	510	502	493	490	494	500	501	508	505	505	510	511	513	
17	510	510	509	510	510	510	509	505	504	503	505	504	505	508	513	516	
18	506	504	506	509	508	507	506	503	500	496	500	495	499	503	515	517	
19 **	504	504	500	502	505	510	510	509	505	503	502	496	495	499	509	519	
20 **	488	486	485	493	497	496	498	506	509	508	505	507	510	516	507	556	
21	515	514	514	513	506	506	507	509	508	509	509	513	513	514	515	525	
22 **	514	512	511	510	513	514	511	508	509	511	509	511	515	518	519	521	
23	510	504	504	504	505	506	510	511	511	512	512	508	504	507	511	514	
24	511	508	505	504	503	504	502	502	508	508	506	505	503	506	513	516	
25	505	500	503	506	502	500	503	505	506	507	507	510	506	505	522	520	
26	513	512	510	510	507	506	506	506	506	505	503	502	506	521	519	518	
27	512	508	508	511	511	510	508	510	513	513	514	512	511	513	517	515	
28	511	504	506	506	506	507	506	507	507	507	505	501	502	510	515	511	
29	512	512	511	511	510	508	506	507	510	511	506	505	506	512	520	516	
30	512	512	511	510	505	506	506	505	505	505	504	502	500	503	510	511	
31 *	509	511	507	507	506	505	505	505	506	509	507	506	504	505	511	513	
Mean	512	510	510	510	509	509	508	508	508	508	508	507	506	510	515	517	
Mean *	511	512	511	512	512	511	512	511	510	510	509	508	507	509	512	513	
Mean **	507	506	505	506	507	508	507	508	509	509	507	507	508	514	522	531	
FEBRUARY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 *	507	507	507	508	507	507	505	505	505	506	504	502	501	506	511	509	
2 *	507	508	508	508	507	507	506	505	504	504	504	503	501	503	507	505	
3	505	506	506	506	507	508	507	505	503	498	497	494	491	490	502	509	
4 **	510	509	509	510	509	510	510	508	505	502	500	499	501	505	514	523	
5	505	511	521	526	498	497	511	512	511	515	518	523	523	525	532	534	
6	519	518	518	518	518	516	515	514	513	513	513	512	512	512	518	534	
7	520	519	519	518	518	515	515	516	515	515	513	511	510	514	518	519	
8	520	522	521	520	519	519	518	518	520	517	514	512	513	516	519	523	
9	517	519	517	513	513	514	514	514	516	513	508	508	510	513	516	519	
10	515	514	512	512	512	512	512	513	514	516	515	514	514	513	512	513	
11	520	517	516	509	506	507	507	508	510	506	502	500	504	506	507	512	
12 *	510	511	510	509	508	508	507	508	510	509	507	508	509	509	508	509	
13	509	510	509	506	506	505	505	505	504	499	494	496	500	514	521	535	
14	517	516	517	517	515	514	510	508	507	506	505	506	509	512	515	516	
15	507	507	511	512	511	510	508	508	505	499	496	497	505	508	511	515	
16 **	507	506	503	505	506	506	502	500	498	497	499	504	506	519	524	528	
17 **	514	513	513	515	517	517	516	513	511	504	495	492	500	505	507	518	
18 **	457	427	443	471	487	498	500	505	507	503	504	509	514	532	535	531	
19	515	512	512	513	515	517	515	512	511	508	507	501	507	514	511	521	
20 **	515	509	505	502	504	506	510	511	510	508	505	504	504	515	512	522	
21	508	504	502	504	508	510	512	513	516	514	508	501	503	509	518	518	
22	508	509	508	500	503	507	508	509	513	511	508	508	505	504	509	522	
23	501	502	503	508	508	508	507	508	511	509	502	497	493	499	503	509	
24	509	503	506	507	507	499	498	502	511	511	508	502	503	508	509	512	
25 *	511	510	509	509	509	509	509	510	513	510	504	499	499	503	508	509	
26 *	509	510	508	508	509	509	508	509	510	509	502	498	494	499	501	507	
27	509	509	508	505	502	503	501	503	507	502	493	489	489	496	501	506	
28	510	509	509	509	503	503	501	502	504	501	497	491	493	501	507	511	
Mean	509	508	508	509	508	509	508	509	509	507	504	503	504	509	513	517	
Mean *	509	509	508	508	508	508	507	507	508	508	504	502	501	504	507	508	
Mean **	501	493	495	501	505	507	508	507	506	503	501	502	505	515	518	524	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m	h m	$\gamma$			
519	521	519	517	516	515	514	514	516	516	01 11	527	12 13	506	21	1
516	516	516	516	515	513	512	511	513	513	16 04	518	13 10	505	13	2 *
515	515	516	516	515	512	511	510	511	511	17 06	517	12 52	502	15	3
513	514	516	514	512	510	508	508	511	511	18 46	516	23 48	506	10	4 *
511	511	512	513	515	516	514	511	510	510	21 17	518	10 40	503	15	5 *
514	514	516	517	516	514	513	512	511	511	19 49	517	12 11	504	13	6
511	513	514	514	513	511	511	512	510	510	17 54	516	12 02	502	14	7
524	543	561	563	544	531	528	531	520	520	18 49	569	12 14	498	71	8 **
544	554	571	581	572	566	559	528	531	531	19 06	586†	07 14	506	80	9 **
520	520	520	520	520	520	518	518	518	518	00 09	522	12 13	510	12	10
512	513	513	513	514	514	513	512	514	514	10 05	517	12 28	513	4	11 *
512	512	512	514	517	514	512	512	511	511	20 50	519	11 58	508	11	12
514	514	513	513	515	521	521	521	512	512	21 50	525	11 30	505	20	13
513	511	510	511	513	521	530	527	514	514	22 57	529	08 26	507	22	14
514	514	511	511	511	517	521	501	511	511	22 05	549	22 57	496	53	15
514	514	511	511	509	507	510	510	506	506	15 05	516	06 48	488	28	16
518	517	514	511	509	506	506	509	509	509	16 43	517	11 56	502	15	17
516	516	516	520	526	514	513	509	509	509	20 16	534	12 04	496	38	18
537	549	546	559	530	535	506	504	514	514	19 46	576	22 30	487	89	19 **
562	561	548	532	526	522	518	516	516	516	17 36	575	02 42	479†	96	20 **
547	543	536	531	525	520	517	515	518	518	16 30	551	05 21	504	47	21
537	526	524	522	521	514	514	512	516	516	16 39	545	10 39	505	40	22 **
520	519	516	516	516	514	513	513	511	511	17 18	518	02 57	503	15	23
521	531	535	520	522	520	515	514	512	512	18 17	555	07 31	500	55	24
521	521	521	515	515	515	515	515	510	510	14 25	524	04 41	496	28	25
522	522	523	522	521	522	515	513	513	513	18 30	528	11 13	500	28	26
513	513	514	513	512	512	512	511	512	512	14 51	519	01 50	506	13	27
514	515	531	516	521	518	515	513	511	511	18 38	539	11 48	498	41	28
516	515	516	520	520	515	512	512	512	512	20 00	528	11 50	504	24	29
506	506	506	506	505	505	507	508	507	507	00 03	511	12 23	498	13	30
512	511	510	508	506	505	506	507	508	508	15 35	512	13 16	502	10	31 *
520	521	522	521	519	517	515	513	513	513	-	532	-	501	30.8	Mean
513	513	513	513	512	512	511	510	511	511	-	516	-	506	10.4	Mean *
541	547	550	551	539	534	525	518	519	519	-	570	-	495	75.2	Mean **

43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m	h m	$\gamma$			
507	508	511	509	507	507	507	506	507	507	14 13	511	12 45	499	12	1 *
505	507	509	508	507	506	504	504	506	506	18 35	510	12 32	500	10	2 *
505	508	513	513	512	511	509	509	505	505	19 29	514	13 18	488	26	3
527	537	576	604	629	590	554	515	527	527	20 55	684†	22 58	468	216	4 **
532	528	527	526	524	523	522	519	519	519	14 58	532	04 40	489	43	5
534	524	524	525	528	533	528	524	520	520	15 42	542	10 22	508	34	6
521	521	522	523	523	528	530	524	519	519	22 49	539	11 53	509	30	7
519	519	521	526	524	525	525	519	520	520	22 00	531	11 50	511	20	8
518	518	517	518	518	518	517	519	515	515	01 41	524	10 00	506	18	9
514	514	514	515	518	519	519	519	514	514	21 08	521	03 42	511	10	10
515	514	514	514	515	515	513	511	510	510	00 16	522	10 42	500	22	11
510	510	509	508	509	509	510	510	509	509	00 50	512	10 29	505	7	12 *
563	550	549	538	526	520	519	517	517	517	16 31	583	11 07	487	96	13
515	512	510	510	515	516	515	511	512	512	00 20	519	23 53	503	16	14
516	516	516	512	511	509	508	508	509	509	16 38	516	10 23	493	23	15
540	542	532	526	527	521	516	514	514	514	17 03	544	10 43	494	50	16 **
520	523	525	532	540	535	522	482	514	514	20 40	545	23 32	476	69	17 **
535	557	532	523	521	519	518	517	506	506	17 38	588	01 36	416†	172	18 **
526	524	531	525	518	516	515	515	515	515	18 44	536	11 32	498	38	19
546	528	532	533	525	525	510	506	514	514	16 16	555	11 51	498	57	20 **
532	540	533	527	528	526	517	512	515	515	17 40	556	12 02	497	59	21
531	529	519	519	519	522	512	501	512	512	17 00	535	03 27	497	38	22
513	516	515	517	521	512	513	513	508	508	20 20	530	12 06	491	39	23
513	513	513	512	512	512	511	511	508	508	16 30	515	06 34	496	19	24
509	508	509	509	510	509	511	509	508	508	22 36	515	11 57	497	18	25 *
510	509	509	509	509	509	509	509	507	507	16 41	513	12 36	494	19	26 *
509	507	505	505	505	504	507	508	503	503	16 19	508	12 24	487	21	27
512	512	511	513	517	517	513	511	507	507	19 53	521	11 44	489	32	28
521	521	521	521	522	520	516	512	512	512	-	536	-	493	43.4	Mean
508	508	509	509	508	508	508	508	507	507	-	512	-	499	13.2	Mean *
534	537	539	544	548	538	524	507	515	515	-	583	-	470	112.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MARCH																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	510	510	510	510	509	505	505	503	506	501	493	488	489	499	502	507	
2	512	511	511	510	509	503	501	501	502	501	498	493	497	499	501	505	
3 *	513	511	508	508	508	508	505	505	504	502	497	491	492	500	506	510	
4 *	504	504	506	506	506	506	505	504	504	501	493	489	490	496	500	504	
5	504	504	504	503	503	502	502	503	505	504	493	482	482	490	498	502	
6 **	480	484	476	473	472	472	472	474	482	489	496	500	502	513	522	528	
7 *	512	510	511	511	512	512	511	510	510	509	504	501	500	503	509	514	
8 *	510	510	509	510	510	510	510	510	509	504	494	485	487	494	502	510	
9	513	510	509	504	503	504	506	504	504	500	491	484	486	492	497	503	
10 **	511	510	509	505	505	501	498	493	485	485	494	501	524	525	527	534	
11	520	518	516	515	515	514	516	516	513	511	510	503	504	511	517	519	
12	520	515	511	511	511	513	513	513	511	506	501	497	499	502	509	514	
13	519	517	511	511	510	510	510	509	507	503	498	491	491	499	507	515	
14 **	511	504	495	484	485	492	492	493	493	493	487	492	499	506	515	523	
15 **	512	511	512	512	505	506	506	507	506	500	495	498	507	513	537	527	
16	490	484	491	501	507	504	505	500	501	496	488	484	493	503	509	517	
17	511	512	512	512	513	512	512	506	508	503	500	493	493	499	509	519	
18	509	510	510	512	514	515	515	515	512	506	496	493	493	500	513	525	
19 **	505	508	509	510	510	498	496	507	504	498	491	485	486	496	507	515	
20	493	492	502	506	508	512	514	516	509	497	493	492	494	497	507	515	
21	506	503	502	502	503	504	509	512	508	502	493	489	486	492	502	515	
22	507	506	502	503	503	503	507	507	508	505	502	496	495	497	504	512	
23	508	507	506	506	505	505	509	512	512	505	494	487	486	493	509	514	
24	508	506	505	505	506	506	508	511	507	503	492	485	487	492	501	512	
25 *	503	503	505	506	506	507	509	512	505	496	489	481	476	482	492	501	
26	506	505	504	504	503	502	502	501	495	487	481	476	480	484	493	501	
27	505	504	504	503	503	502	503	504	502	493	489	484	484	489	499	507	
28	519	516	513	506	497	501	503	504	503	496	487	482	482	489	497	512	
29	512	511	511	511	508	508	511	511	507	501	492	483	481	489	496	503	
30	509	506	500	493	492	493	499	503	498	494	486	483	483	493	503	511	
31	507	507	507	507	506	506	509	510	504	494	486	477	474	482	494	502	
Mean	508	507	506	505	505	504	505	506	504	500	494	489	491	497	506	513	
Mean *	508	508	508	508	508	509	508	508	506	502	495	489	489	495	502	508	
Mean **	504	503	500	497	495	494	492	495	494	493	493	495	504	511	522	525	
APRIL																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	503	497	487	479	486	497	501	500	497	492	485	480	479	487	499	510	
2	507	507	508	509	509	507	506	505	501	496	492	488	490	494	504	512	
3 **	513	510	508	497	477	481	487	490	488	486	486	481	480	485	503	520	
4 *	505	499	503	508	509	510	510	511	508	500	491	483	479	486	494	503	
5 *	509	510	510	507	504	505	510	512	507	497	485	480	481	486	495	504	
6	506	506	504	503	503	503	505	509	508	502	489	477	476	484	493	500	
7	507	505	506	502	503	503	506	507	502	493	485	482	481	488	497	504	
8	504	504	504	503	504	505	509	511	507	500	490	484	481	484	491	499	
9 **	504	504	501	500	502	500	502	502	495	488	480	476	491	490	496	503	
10	497	494	500	500	502	500	505	507	504	497	496	492	494	496	504	508	
11 **	505	505	498	494	487	489	494	501	502	502	498	491	487	497	507	520	
12	509	509	509	509	507	507	505	506	502	496	490	486	491	501	512	518	
13	508	506	507	507	505	508	510	512	509	503	495	491	488	496	510	523	
14 **	508	509	509	509	508	507	507	510	506	496	496	494	495	504	519	541	
15 **	462	432	456	446	463	478	475	488	499	496	503	505	506	512	523	541	
16	514	515	512	515	518	521	523	525	524	516	506	497	495	505	516	524	
17 *	508	511	514	514	516	517	519	517	511	503	493	482	475	485	496	505	
18 *	511	511	511	512	512	511	512	513	508	497	488	484	486	492	504	513	
19	509	509	508	507	510	511	515	517	513	508	495	486	478	482	493	503	
20	501	496	497	501	504	506	510	514	515	510	499	488	485	489	500	509	
21 *	506	506	507	508	508	510	512	513	512	505	492	478	475	483	496	506	
22	507	507	507	507	507	508	510	509	503	494	484	473	474	483	496	504	
23	511	510	510	510	509	508	507	506	504	496	490	482	476	481	489	501	
24	502	500	494	492	499	500	502	503	502	494	482	475	476	483	492	504	
25	510	506	494	496	498	498	502	503	504	501	492	484	483	487	495	503	
26	510	508	505	499	500	499	496	499	499	489	477	464	458	468	487	501	
27	508	507	506	503	505	505	502	500	501	499	492	483	476	484	498	503	
28	504	502	497	497	495	495	497	499	497	491	484	479	478	485	497	504	
29	507	507	508	508	509	507	507	506	502	495	484	475	474	484	497	504	
30	507	507	504	506	507	506	504	503	502	494	482	476	479	486	495	500	
Mean	505	503	503	502	502	503	505	507	504	498	490	483	482	489	500	510	
Mean *	508	507	509	510	510	511	513	513	509	500	490	481	479	486	497	506	
Mean **	498	492	494	489	487	491	493	498	498	494	493	489	492	498	510	525	

\* International Quiet Day. \*\* International Disturbed Day.

1969]

## MAGNETIC RESULTS 1961 (HARTLAND)

D 145

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
510	509	509	509	509	509	512	513	505	23 29	516	12 09	485	31	1
509	508	508	509	508	508	510	513	505	22 58	516	12 07	494	22	2
513	511	507	505	504	503	503	503	505	01 07	516	11 54	490	26	3 *
509	510	508	508	506	504	503	504	503	16 37	510	11 40	487	23	4 *
508	508	508	508	519	525	518	493	503	21 57	536	23 59	475	61	5
529	523	520	519	514	512	512	511	499	16 08	528	03 31	467†	61	6 **
519	513	511	510	512	513	512	510	510	16 10	519	12 13	498	21	7 *
513	512	514	520	520	520	521	518	508	19 40	523	11 53	483	40	8 *
508	510	514	520	520	520	520	514	506	19 46	524	11 54	483	41	9
541	535	529	523	521	522	521	520	513	17 10	539	09 00	477	62	10 **
520	519	517	521	521	520	520	520	516	20 29	525	11 35	499	26	11
513	513	511	511	511	513	513	516	510	23 50	518	11 48	496	22	12
519	514	511	511	512	513	511	511	509	16 12	518	12 13	489	29	13
530	541	534	522	516	516	512	512	506	18 05	554	03 31	483	71	14 **
523	518	512	512	513	520	500	498	510	14 21	545	23 56	491	54	15 **
521	517	515	511	509	508	508	509	503	16 40	521	01 05	481	40	16
525	523	517	514	512	510	509	509	510	16 34	527	12 06	489	38	17
537	536	540	522	515	512	510	503	513	18 13	550	11 53	492	58	18
528	567	544	533	527	511	506	500	510	17 36	581†	12 20	484	97	19 **
517	521	522	527	513	511	507	505	507	19 30	533	01 17	488	45	20
519	522	523	526	521	514	513	511	507	19 15	529	11 37	485	44	21
515	515	513	512	513	512	511	508	507	17 03	517	12 55	492	25	22
514	518	517	515	516	513	512	508	507	17 42	521	12 10	483	38	23
513	513	513	513	513	513	514	505	505	22 42	519	11 50	484	35	24
505	505	506	506	507	509	508	508	501	07 04	511	12 22	476	35	25 *
504	504	504	504	505	505	511	507	499	22 48	515	10 56	475	40	26
540	554	543	540	539	533	525	522	511	17 18	560	11 46	482	78	27
521	519	515	515	515	513	511	512	505	16 27	522	12 19	479	43	28
507	507	508	511	515	510	509	508	505	20 19	518	12 13	479	39	29
514	511	508	505	504	504	505	506	500	15 57	515	11 40	480	35	30
504	503	503	502	502	501	502	502	500	07 07	510	11 58	473	37	31
518	519	516	515	514	513	511	509	506	-	527	-	484	42.5	Mean
512	510	509	510	510	510	509	509	505	-	516	-	487	29.0	Mean *
530	537	528	522	518	516	510	508	508	-	549	-	480	69.0	Mean **
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
										h m	h m	$\gamma$		
517	521	518	514	513	510	507	506	499	17 00	522	12 03	478	44	1
514	518	522	523	516	518	516	514	507	18 57	530	11 33	487	43	2
532	541	544	534	524	520	511	510	505	17 55	546	04 40	471	75	3 **
514	517	517	514	512	510	508	509	504	18 35	518	12 12	480	38	4 *
506	510	511	510	508	507	505	505	503	02 20	515	11 13	480	35	5 *
508	519	518	519	521	514	508	508	503	20 55	526	12 12	474	52	6
507	509	509	508	507	506	505	505	501	00 06	511	12 28	480	31	7
505	509	507	507	505	505	505	505	501	07 34	513	12 53	480	33	8
507	512	516	519	516	514	512	510	502	19 19	522	11 30	469	53	9 **
513	515	518	508	508	509	511	505	503	18 12	522	11 37	490	32	10
535	551	525	515	512	510	511	511	506	17 30	576	04 23	485	91	11 **
517	519	512	505	505	509	506	507	506	17 50	521	11 47	485	36	12
519	517	511	506	505	506	506	507	506	15 21	532	12 14	487	45	13
567	585	578	565	544	549	515	473	521	18 21	610†	23 50	444	166	14 **
539	539	533	532	535	526	519	515	501	15 37	546	01 08	370†	176	15 **
531	533	528	528	519	516	503	501	516	16 49	537	12 13	492	45	16
511	518	519	518	515	512	511	511	508	18 07	520	12 38	473	47	17 *
520	521	519	517	514	513	512	510	508	16 52	522	11 25	483	39	18 *
510	516	523	519	516	512	509	507	507	18 21	527	12 31	477	50	19
514	518	518	516	515	511	507	506	505	17 45	519	12 42	484	35	20
507	511	511	510	511	512	510	508	504	07 28	514	12 15	474	40	21 *
515	517	524	524	528	524	518	513	506	20 12	530	11 59	471	59	22
507	510	517	519	520	519	517	510	505	20 53	523	12 20	475	48	23
513	524	528	530	522	519	519	514	503	19 06	533	11 59	474	59	24
510	517	521	520	517	514	512	512	503	19 24	521	12 30	482	39	25
507	515	521	513	510	509	510	509	498	18 12	529	12 31	456	73	26
508	515	518	515	515	517	511	507	503	18 07	518	12 25	474	44	27
507	511	514	514	509	507	507	508	499	19 16	517	12 12	477	40	28
504	504	504	505	507	508	513	507	501	22 30	517	11 55	472	45	29
507	509	511	507	507	509	507	508	501	21 29	512	11 36	475	37	30
516	521	521	518	515	514	510	507	505	-	528	-	473	55.0	Mean
512	515	515	514	512	511	509	509	505	-	518	-	478	39.8	Mean *
536	546	539	533	526	524	514	504	507	-	560	-	448	112.2	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
MAY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	509	507	504	499	495	497	497	498	493	484	479	474	475	483	493	502	
2	505	488	475	472	488	500	501	501	499	497	492	484	488	495	503	507	
3 *	507	508	509	509	517	512	516	515	511	503	498	491	487	487	496	505	
4	507	508	508	509	510	512	512	510	506	502	492	483	486	494	495	498	
5	511	508	508	508	511	512	513	508	506	502	489	484	485	489	497	504	
6 **	508	504	504	504	508	499	497	500	499	495	490	493	489	500	515	509	
7 **	506	497	497	501	503	503	503	500	504	498	488	484	488	489	499	511	
8	502	502	504	504	505	507	507	508	507	504	502	493	490	493	497	502	
9	508	508	507	506	506	502	502	501	500	499	498	490	485	490	501	511	
10	507	508	508	509	509	508	508	506	503	499	496	488	491	501	509	510	
11	494	495	500	502	501	502	500	497	492	490	490	487	485	489	495	503	
12	510	502	496	499	502	503	503	503	503	495	492	491	490	495	499	504	
13	491	483	477	483	485	496	503	501	499	498	498	495	498	503	511	518	
14	510	507	504	498	498	509	511	511	507	498	493	492	490	497	510	515	
15 *	510	510	511	511	513	513	511	505	498	493	484	476	476	484	492	503	
16 **	503	495	499	506	511	507	498	497	497	499	493	485	485	493	506	522	
17	499	501	504	510	514	515	517	515	511	505	490	480	483	494	500	510	
18 *	507	506	507	510	512	515	512	511	509	503	490	479	474	476	487	499	
19	506	506	507	510	511	511	511	506	501	493	485	482	481	486	490	500	
20	493	499	503	506	503	496	492	492	489	486	477	475	477	487	498	508	
21 *	508	505	504	505	510	512	505	500	493	486	477	472	470	476	486	495	
22	503	502	502	503	505	506	502	496	487	479	474	470	472	482	491	498	
23	508	507	506	506	503	510	508	504	503	497	488	483	485	494	506	513	
24	509	503	498	501	503	508	509	508	504	497	493	492	492	498	501	507	
25 **	504	497	489	493	493	481	471	473	478	483	486	485	486	498	522	532	
26	516	505	504	508	512	513	509	508	509	502	496	491	494	498	502	508	
27	505	505	508	508	510	510	506	505	498	489	491	486	484	492	505	512	
28	512	511	511	510	510	511	508	503	495	482	472	471	475	485	495	503	
29 *	510	511	512	512	511	507	506	505	502	492	483	480	480	483	487	497	
30	506	506	507	508	511	510	503	499	491	482	470	461	465	475	485	495	
31 **	502	502	503	505	503	503	502	500	491	485	486	490	493	501	506	515	
Mean	506	503	502	504	505	506	505	503	500	494	488	483	484	491	499	507	
Mean *	508	508	509	509	511	512	510	507	503	495	486	480	477	481	490	500	
Mean **	505	499	498	502	504	499	494	494	494	492	489	487	488	496	510	518	
JUNE																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	504	503	504	508	509	511	510	506	498	489	487	482	483	493	503	513	
2 **	506	496	500	504	509	513	513	512	509	506	497	486	491	501	517	536	
3	508	508	509	508	506	497	501	503	502	498	498	491	491	493	502	511	
4	507	506	507	504	505	506	511	513	513	510	504	495	492	494	500	504	
5	508	507	507	507	506	504	504	506	505	499	492	487	486	484	492	499	
6	508	507	506	505	507	507	506	504	503	498	492	489	487	492	498	503	
7	514	513	512	513	513	512	506	504	494	493	494	496	494	500	504	517	
8	508	492	494	499	507	510	506	504	497	496	493	487	492	499	507	517	
9	511	513	513	514	515	515	510	511	508	504	496	490	488	493	502	512	
10 *	511	510	511	511	513	514	510	509	506	500	496	494	495	497	503	510	
11 *	510	510	511	513	515	516	514	510	503	495	484	478	486	491	496	506	
12	508	509	509	509	506	505	500	501	500	494	485	481	491	500	508	511	
13 *	509	510	511	514	514	512	510	507	500	490	477	469	476	487	500	510	
14	507	508	510	511	512	512	512	511	508	500	491	483	479	488	500	507	
15	502	503	505	508	511	509	510	510	506	499	487	478	481	485	497	510	
16	504	492	497	502	509	510	508	506	501	497	486	479	477	486	497	511	
17	506	507	507	507	511	511	509	505	500	496	483	475	469	473	486	497	
18	506	506	506	509	511	511	506	501	505	501	492	480	475	476	483	497	
19	507	508	510	508	505	502	506	506	506	505	493	488	489	487	493	504	
20	504	506	506	506	503	507	508	504	504	503	499	487	482	485	487	492	
21 **	506	485	476	485	497	507	504	501	497	487	477	477	477	486	505	513	
22 **	457	459	457	454	455	466	478	484	477	482	493	494	501	512	516	520	
23	509	508	504	510	516	516	518	518	515	512	505	496	492	503	515	521	
24	510	508	508	507	509	513	513	515	512	505	500	495	499	501	504	509	
25	515	515	513	515	517	520	518	512	506	504	503	505	506	507	510	518	
26	513	514	514	516	516	516	515	513	510	503	495	491	494	498	508	516	
27	513	514	513	513	515	517	514	508	502	499	491	488	494	502	511	517	
28 *	512	513	512	514	514	514	512	509	502	496	490	488	489	491	503	513	
29 **	509	508	507	486	467	465	478	492	500	496	495	491	497	507	513	523	
30 *	509	508	512	518	521	524	523	517	510	502	495	487	482	490	501	513	
Mean	507	505	505	506	507	508	508	507	503	499	492	487	488	493	502	511	
Mean *	510	510	511	514	515	516	514	510	504	497	488	483	486	491	501	510	
Mean **	496	490	489	487	487	492	497	499	496	492	490	486	490	500	511	521	

\* International Quiet Day. \*\* International Disturbed Day.



TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
JULY																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	508	507	506	505	507	509	508	508	509	507	497	492	492	493	503	510	
2	508	507	508	511	516	517	517	513	509	508	499	491	488	488	497	509	
3	506	507	509	511	515	515	519	518	511	500	482	479	486	493	500	506	
4	510	509	509	510	514	515	517	511	505	497	481	471	464	472	482	490	
5 **	476	467	450	459	449	469	483	489	490	492	488	491	501	508	519	542	
6	504	503	502	499	503	509	508	508	508	503	500	494	492	493	502	513	
7	513	503	491	495	504	509	512	512	512	511	504	503	501	506	518	521	
8	515	513	509	505	509	513	510	508	506	504	497	491	493	501	507	513	
9	507	509	510	510	508	508	508	509	508	500	493	489	488	498	509	515	
10	512	511	508	505	498	496	498	501	507	509	499	492	497	499	504	517	
11 *	513	515	512	511	515	517	513	512	508	501	499	491	486	490	501	509	
12 *	511	512	512	516	517	519	516	513	510	505	501	486	481	485	494	502	
13 **	509	510	511	512	516	517	514	509	500	489	486	479	461	457	489	495	
14 **	489	484	499	514	522	527	527	521	509	509	522	538	549	575	603	624	
15	509	510	504	508	509	509	516	513	510	506	508	508	511	519	545	549	
16	499	471	482	491	516	527	529	528	522	518	511	502	499	508	519	523	
17	521	514	513	513	517	520	523	524	520	511	496	490	498	510	514	519	
18 **	493	490	497	490	492	465	459	487	492	490	468	464	471	500	530	582	
19	483	480	490	488	491	515	527	530	528	523	519	510	502	502	510	520	
20	521	521	521	520	518	523	519	519	520	514	504	494	487	492	499	505	
21	510	504	488	477	464	462	477	487	496	503	503	499	500	509	527	545	
22	525	523	522	522	526	527	525	521	516	518	519	515	509	513	521	526	
23	520	519	518	519	520	521	523	521	516	509	501	499	495	502	518	532	
24	519	515	511	514	511	508	513	520	518	511	510	511	513	514	523	532	
25	520	505	494	500	501	504	511	521	522	521	513	508	506	510	515	523	
26	512	509	510	506	506	511	511	512	514	508	502	494	496	505	515	520	
27 **	512	510	514	516	513	511	513	513	496	487	495	515	509	519	533	546	
28	520	518	519	526	528	534	531	529	521	510	504	501	506	511	520	533	
29 *	524	527	528	528	523	523	522	523	520	514	506	504	504	505	513	523	
30 *	517	517	520	523	526	528	525	521	517	515	509	502	496	498	509	515	
31 *	517	518	519	521	524	525	522	522	521	513	506	499	491	494	504	515	
Mean	510	507	506	507	509	511	513	514	511	507	501	497	496	502	514	525	
Mean *	516	518	518	520	521	522	520	518	515	510	504	496	492	494	504	513	
Mean **	496	492	494	498	498	498	499	504	497	493	492	497	498	512	535	558	
AUGUST																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	516	514	509	511	517	522	523	521	520	515	505	501	497	499	510	517	
2 **	505	483	493	502	499	488	496	506	506	505	501	504	506	515	520	532	
3	512	513	514	514	508	509	517	523	522	521	515	506	501	509	517	527	
4 **	506	493	500	505	512	518	519	521	519	516	508	506	503	508	519	529	
5	519	518	517	518	518	518	518	518	512	508	505	502	501	508	517	525	
6	515	514	516	516	518	518	515	516	513	508	502	496	501	508	516	519	
7 *	518	518	517	516	519	520	517	515	513	508	502	501	498	501	508	515	
8	513	515	516	515	514	513	511	511	507	502	500	499	500	501	506	516	
9 *	520	520	517	515	516	517	515	514	512	504	497	492	495	504	515	524	
10	517	517	515	515	516	514	513	510	509	503	497	496	498	508	527	541	
11 **	518	509	507	501	502	515	518	517	507	495	492	492	499	503	523	536	
12	517	520	523	524	523	523	520	516	509	500	495	491	492	498	504	515	
13 *	513	515	514	513	517	520	519	516	509	497	480	474	477	485	496	507	
14	514	515	516	517	519	523	527	526	518	509	498	480	481	487	495	509	
15	513	514	515	516	519	523	521	519	516	503	487	482	481	490	501	512	
16	505	507	508	512	513	519	522	521	518	510	501	492	493	499	509	519	
17	514	514	514	514	517	519	518	515	512	509	501	493	487	489	493	501	
18	512	512	512	512	516	518	518	515	514	509	503	500	498	498	504	516	
19	512	512	510	510	510	512	509	505	506	502	494	490	498	506	510	516	
20	515	515	516	516	517	518	518	519	517	510	502	493	494	500	513	520	
21	517	516	516	517	518	520	523	526	525	518	508	498	493	494	501	508	
22 *	514	514	513	513	513	514	514	515	510	506	495	488	487	491	497	503	
23 *	514	514	514	514	514	515	515	514	512	506	498	495	493	498	505	511	
24	512	512	513	512	513	512	513	514	512	506	497	491	491	494	503	509	
25	511	509	509	509	511	512	510	506	504	496	488	488	492	501	517	524	
26	512	513	514	511	510	510	509	505	500	494	489	487	488	497	509	515	
27	503	508	512	516	518	518	516	515	515	505	493	491	497	505	517	528	
28	509	508	511	512	515	520	520	520	516	510	502	495	498	502	508	517	
29	510	511	511	512	515	518	520	520	518	507	495	488	487	493	505	513	
30 **	493	487	490	495	505	513	518	518	512	499	491	490	496	510	519	532	
31 **	489	489	469	472	481	492	508	515	516	515	508	501	498	505	517	526	
Mean	516	510	510	511	513	515	516	516	513	506	498	494	494	500	510	519	
Mean *	516	516	515	514	516	517	516	515	511	504	494	490	490	496	504	512	
Mean **	502	492	492	495	500	505	512	515	512	506	500	499	500	508	520	531	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date		
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )															
										h m	h m	$\gamma$			
519	524	529	527	519	512	509	509	509	509	18 42	530	12 55	489	41	1
517	523	527	522	519	518	514	510	510	510	18 35	528	13 02	487	41	2
512	523	522	522	519	515	513	512	508	508	17 28	528	11 14	477	51	3
499	507	512	512	513	516	511	494	501	501	21 34	520	12 44	463	57	4
547	542	538	533	529	522	509	509	500	500	16 04	551	04 30	445†	106	5 **
532	540	533	525	522	519	518	517	510	510	17 13	548	12 52	491	57	6
523	523	523	523	520	514	514	514	511	511	15 45	525	02 46	491	34	7
518	523	521	518	517	514	514	513	510	510	18 09	524	11 26	489	35	8
521	524	523	519	513	511	511	511	508	508	17 11	526	12 24	486	40	9
526	528	528	522	517	518	515	514	509	509	17 07	529	11 26	491	38	10
517	529	529	522	518	514	512	512	510	510	17 52	532	12 36	486	46	11 *
508	514	519	514	512	509	508	509	507	507	18 35	521	12 32	482	39	12 *
523	561	593	623	562	543	521	482	515	515	19 27	674†	13 36	450	224	13 **
646	631	619	580	548	532	528	519	546	546	16 20	661	01 20	476	185	14 **
560	563	557	552	549	534	519	510	524	524	17 08	566	02 25	505	61	15
529	537	550	549	541	531	528	523	518	518	18 39	556	01 07	468	88	16
525	531	538	543	560	511	510	515	518	518	20 54	568	21 37	487	81	17
618	618	615	590	573	540	522	508	519	519	17 15	627	06 06	451	176	18 **
528	530	534	534	531	527	524	522	515	515	18 50	538	01 10	462	76	19
511	518	528	530	534	529	526	517	515	515	20 15	536	12 16	487	49	20
557	568	570	558	543	534	529	527	514	514	17 45	576	05 14	455	121	21
528	529	528	526	524	524	522	522	522	522	04 49	530	12 26	508	22	22
539	544	546	539	534	529	521	520	521	521	18 01	553	12 36	493	60	23
532	529	529	528	525	524	522	522	519	519	15 34	535	05 26	505	30	24
528	529	527	522	520	520	521	520	515	515	16 20	530	02 44	493	37	25
523	524	520	517	514	523	524	505	512	512	19 52	542	23 35	494	48	26
553	569	591	573	553	521	514	513	525	525	18 15	595	09 24	473	122	27 **
538	543	539	537	542	530	524	524	525	525	20 23	550	11 25	497	53	28
526	526	526	527	525	522	521	520	520	520	03 22	530	12 20	502	28	29 *
526	530	535	538	531	521	515	515	519	519	19 50	542	12 30	494	48	30 *
522	526	532	538	531	525	521	518	518	518	19 37	540	12 49	489	51	31 *
534	539	541	538	531	523	518	514	515	515	-	552	-	483	69.2	Mean
520	525	528	528	523	518	515	515	515	515	-	533	-	491	42.4	Mean *
577	584	591	580	553	532	519	506	521	521	-	622	-	459	162.6	Mean **

43000  $\gamma$  + Tabular Quantities (in  $\gamma$ )

AUGUST

										h m	h m	$\gamma$			
522	524	527	524	525	526	522	518	516	516	18 40	527	13 05	495	32	1
545	545	544	548	546	533	524	518	515	515	16 40	549	01 25	478	71	2 **
532	532	539	540	535	532	521	511	520	520	18 32	545	12 06	498	47	3
527	526	528	529	531	526	522	520	516	516	20 20	535	01 30	490	45	4 **
529	528	529	531	529	524	523	522	518	518	19 45	533	12 22	499	34	5
523	523	521	522	521	521	519	517	515	515	17 20	524	11 28	494	30	6
516	519	518	519	516	515	516	514	513	513	05 15	521	12 25	498	23	7 *
525	535	542	544	532	522	520	520	516	516	19 05	549	10 58	498	51	8
522	522	523	520	517	515	515	516	514	514	15 38	524	11 40	490	34	9 *
546	545	543	541	532	526	523	522	520	520	17 32	548	11 51	495	53	10
543	553	559	550	544	534	527	522	519	519	18 32	561	11 10	490	71	11 **
521	522	522	522	520	517	515	511	513	513	03 30	525	12 00	490	35	12
518	522	522	517	514	513	512	513	508	508	18 00	523	11 50	473	50	13 *
525	530	532	527	520	517	515	514	513	513	18 05	533	11 54	477	56	14
525	529	530	525	518	517	515	513	512	512	18 15	533	12 20	477	56	15
524	526	523	519	517	515	514	514	513	513	17 28	526	11 50	491	35	16
510	516	518	522	520	519	515	515	510	510	19 45	525	12 44	485	40	17
524	525	522	518	517	516	514	513	513	513	17 28	524	13 08	497	27	18
524	528	525	520	519	518	518	518	511	511	17 25	527	11 14	488	39	19
530	539	542	534	528	522	519	519	517	517	18 38	544	12 10	492	52	20
515	517	518	516	515	515	514	514	513	513	08 05	526	13 15	491	35	21
509	510	509	510	510	512	512	513	507	507	06 36	515	12 06	486	29	22 *
514	515	514	511	512	515	513	511	510	510	06 08	515	12 25	492	23	23 *
511	514	508	505	506	508	512	510	507	507	17 10	515	11 58	489	26	24
522	519	512	509	510	509	509	511	508	508	15 35	525	11 06	484	41	25
516	513	507	506	511	514	514	510	506	506	22 28	517	12 03	485	32	26
530	528	519	515	515	511	510	511	512	512	15 54	530	11 15	490	40	27
522	522	519	515	515	515	513	511	512	512	17 05	522	11 42	493	29	28
518	518	536	541	530	518	513	509	513	513	18 46	549	11 50	487	62	29
559	562	554	538	532	523	510	503	515	515	16 39	574†	01 43	484	90	30 **
535	547	542	533	531	523	517	501	510	510	17 23	553	02 39	463†	90	31 **
525	528	527	525	522	519	516	514	513	513	-	533	-	488	44.5	Mean
516	518	517	515	514	514	514	513	510	510	-	520	-	488	31.8	Mean *
542	547	545	540	537	528	520	513	515	515	-	554	-	481	73.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
SEPTEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	495	491	499	508	511	509	505	503	501	495	497	502	495	496	507	524	
2	505	509	511	512	515	519	518	517	509	501	499	496	498	504	510	525	
3	505	506	511	513	510	506	506	507	507	505	499	500	499	505	512	517	
4	516	515	515	515	515	515	517	518	516	503	495	494	494	499	508	517	
5	512	505	505	507	509	512	515	515	510	501	495	494	490	496	509	520	
6	514	514	513	510	508	510	512	511	506	501	496	494	496	501	509	513	
7 *	512	512	511	511	511	511	513	514	508	495	483	478	484	496	506	514	
8 *	510	511	513	512	511	510	512	511	505	489	486	486	492	500	506	510	
9	509	510	510	510	509	510	509	504	496	486	477	476	485	496	506	517	
10	514	514	511	514	514	514	515	515	509	497	489	487	494	506	518	524	
11	508	508	511	513	513	511	511	511	506	496	485	481	485	493	503	511	
12	511	515	518	517	514	506	499	499	502	499	489	485	490	503	512	518	
13	507	508	511	513	513	513	513	511	507	498	487	486	490	500	507	515	
14 **	507	503	509	513	511	507	507	507	501	494	490	487	488	510	517	526	
15	500	511	515	516	517	519	521	520	515	504	497	495	490	497	509	514	
16	513	515	515	515	517	517	517	517	515	507	500	490	494	504	517	520	
17	513	508	498	501	501	508	510	513	514	510	504	499	498	503	510	515	
18	519	517	514	511	512	513	515	517	518	513	509	503	501	504	509	518	
19 *	520	519	518	517	516	516	517	518	520	516	507	501	497	502	507	513	
20 *	520	516	515	513	511	507	505	504	505	506	500	496	498	498	505	515	
21 *	523	522	519	517	515	516	517	520	520	515	510	506	502	502	505	510	
22	518	518	518	516	515	514	514	515	513	507	497	490	487	494	503	512	
23 *	517	518	518	518	517	516	517	517	511	503	497	493	495	502	506	510	
24 **	512	513	513	513	513	512	509	512	509	498	488	494	494	497	516	536	
25 **	501	507	503	499	502	507	507	513	506	502	496	496	505	518	524	534	
26	507	503	508	513	514	516	516	516	513	505	499	501	511	515	526	538	
27	503	495	494	493	492	496	503	507	512	511	505	504	516	515	520	524	
28	516	517	517	518	520	520	523	523	519	509	502	497	499	502	506	513	
29	507	510	512	514	514	515	516	520	517	511	504	501	500	501	504	512	
30 **	514	513	513	513	510	509	509	513	514	510	504	498	495	500	504	510	
Mean	511	511	511	512	512	512	512	513	510	503	496	494	495	502	510	518	
Mean *	516	516	516	515	514	514	515	516	513	504	497	493	494	500	506	511	
Mean **	506	505	507	509	509	509	507	510	506	500	495	495	495	504	514	526	
OCTOBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	403	359	368	416	485	471	474	483	491	499	509	510	519	526	529	531	
2	530	530	530	529	527	529	530	534	534	530	525	520	519	523	526	531	
3	526	525	524	524	523	524	526	530	531	521	508	502	507	513	519	524	
4	526	526	525	524	524	522	521	524	526	522	513	507	509	514	521	524	
5	518	519	519	520	521	521	520	522	520	515	507	500	501	505	508	515	
6	521	522	521	520	519	518	517	517	514	509	502	500	503	505	510	517	
7	520	515	510	510	509	508	508	513	513	506	494	490	497	504	511	518	
8	518	518	519	517	516	516	513	512	513	513	505	499	502	510	515	520	
9	515	515	514	517	515	515	515	516	515	512	507	499	504	509	515	521	
10 *	515	517	517	517	517	515	517	518	517	512	503	498	499	503	509	517	
11	513	513	514	514	514	513	513	513	512	509	497	492	500	508	514	522	
12	510	494	490	492	499	503	506	511	514	511	505	499	501	511	521	526	
13	512	508	505	509	505	504	508	511	513	506	515	510	504	506	514	522	
14	506	505	507	511	514	517	518	519	522	518	510	504	501	505	513	520	
15 *	514	514	514	515	515	516	516	520	520	516	509	500	497	501	507	512	
16 *	512	511	512	512	513	514	514	515	517	514	507	501	498	497	503	511	
17 *	513	513	512	512	512	512	513	514	517	515	503	491	487	492	500	505	
18 *	510	508	507	506	507	508	509	511	512	509	500	490	484	490	500	505	
19	512	511	508	504	503	505	505	509	510	509	504	500	498	500	505	507	
20	513	511	506	506	501	499	502	510	516	514	509	506	506	512	517	520	
21	519	519	517	515	514	513	513	516	517	512	501	496	502	509	514	517	
22	518	517	517	517	516	515	514	515	515	515	510	503	505	511	517	523	
23	513	514	514	514	513	513	513	512	512	505	498	493	498	506	512	518	
24	513	514	515	515	515	514	512	511	510	509	502	500	505	514	517	522	
25	512	513	513	513	515	514	512	511	511	506	500	495	498	506	514	521	
26 **	506	510	510	507	507	506	506	506	505	503	495	492	501	512	522	530	
27 **	501	498	510	496	485	485	493	502	510	510	510	508	510	513	516	521	
28 **	507	507	510	512	514	517	520	521	516	502	496	502	534	576	635	618	
29 **	482	463	451	468	501	522	525	529	541	542	530	525	527	528	533	537	
30	530	530	530	530	531	532	532	535	536	537	534	522	513	524	530	537	
31	527	527	526	526	527	528	526	529	532	529	523	519	517	522	526	528	
Mean	511	508	508	509	512	513	513	516	517	514	507	502	505	511	519	524	
Mean *	513	513	512	512	513	513	514	516	517	513	504	496	493	497	504	510	
Mean **	480	467	470	480	498	500	504	508	513	511	508	507	518	531	547	547	

\* International Quiet Day. \*\* International Disturbed Day.

1969]

## MAGNETIC RESULTS 1961 (HARTLAND)

D 151

## AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )													SEPTEMBER	
										h m	h m	$\gamma$		
533	529	545	535	526	523	510	506	510	18 50	555	00 50	488	67	1 **
526	526	524	521	517	516	516	512	513	16 33	528	12 08	496	32	2
519	521	524	522	520	518	518	517	511	18 22	526	11 58	498	28	3
518	516	513	513	514	515	516	515	511	07 41	521	12 23	493	28	4
524	523	520	519	525	520	514	514	511	20 54	530	12 34	489	41	5
515	513	512	511	511	511	511	512	509	01 25	515	11 00	493	22	6
511	509	507	509	509	508	509	509	505	07 10	515	11 55	478	37	7 *
509	506	506	508	508	508	508	508	505	07 12	514	09 45	486	28	8 *
517	517	514	513	511	511	514	514	505	17 19	520	11 04	475	45	9
521	517	511	511	509	508	508	509	510	15 42	524	11 40	486	38	10
524	532	539	536	528	526	518	510	511	19 02	544	11 05	480	64	11
521	521	520	520	519	517	518	510	509	22 56	524	11 26	483	41	12
517	518	522	526	522	521	517	516	510	18 42	527	10 58	485	42	13
533	527	527	532	532	525	521	497	511	19 51	536	11 50	484	52	14 **
519	521	521	521	519	519	518	514	512	06 31	520	00 00	487	33	15
523	527	529	529	527	525	517	515	515	18 21	529	11 40	488	41	16
523	529	529	526	524	522	521	520	512	17 52	530	02 05	496	34	17
524	524	522	522	521	520	520	520	515	16 15	525	12 32	499	26	18
515	517	517	520	520	522	522	522	515	08 20	521	12 39	498	23	19 *
522	526	527	530	533	532	527	524	514	20 15	536	11 05	496	40	20
513	515	516	515	516	517	518	518	514	00 00	523	12 45	500	23	21 *
513	515	515	515	518	520	517	517	511	21 05	521	12 10	486	35	22
513	513	511	510	509	511	511	512	510	03 12	519	12 00	493	26	23 *
544	563	566	542	534	531	510	501	517	18 00	593	10 42	486	107	24 **
531	527	524	525	523	520	513	511	512	15 28	538	02 55	492	46	25 **
540	545	532	530	517	515	512	504	517	17 27	560	10 47	498	62	26
531	541	531	531	526	523	516	516	513	17 20	552	03 47	491	61	27
517	520	521	522	522	518	518	513	515	07 20	526	11 42	496	30	28
521	524	523	523	523	522	519	516	514	16 56	526	12 10	499	27	29
513	515	519	518	529	511	478	441	506	21 11	596†	24 00	390†	206	30 **
522	523	523	522	520	519	515	510	511	-	533	-	487	46.2	Mean
512	512	511	512	512	513	514	514	510	-	518	-	491	27.4	Mean *
531	532	536	530	529	522	506	491	512	-	564	-	468	95.6	Mean **
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )													OCTOBER	
										h m	h m	$\gamma$		
533	534	531	532	531	532	533	531	493	22 09	537	02 46	233†	304	1 **
533	536	535	527	527	528	527	527	529	17 58	542	11 56	517	25	2
525	527	531	529	528	529	529	527	523	18 30	533	11 14	500	33	3
531	535	535	532	530	531	529	529	524	18 21	537	12 00	507	30	4
521	521	522	522	519	519	519	520	516	07 22	522	11 42	499	23	5
524	526	525	525	525	522	519	520	517	17 40	529	11 04	497	32	6
518	517	517	515	515	515	515	516	511	00 30	521	11 20	489	32	7
522	520	519	517	515	514	515	516	514	16 20	523	11 50	498	25	8
522	519	518	515	514	513	513	514	514	15 40	522	11 35	497	25	9
518	515	514	514	513	513	513	512	513	07 30	520	11 51	497	23	10*
524	521	520	519	525	524	520	516	514	20 52	527	11 04	489	38	11
534	533	528	526	525	525	519	513	512	16 48	538	01 42	485	53	12
530	533	529	525	521	519	518	516	514	17 15	535	04 42	502	33	13
523	524	522	521	519	517	515	515	514	16 40	526	12 35	501	25	14
516	515	517	517	516	514	511	511	513	08 10	521	12 20	497	24	15 *
516	515	516	516	516	515	514	513	511	08 25	517	13 20	497	20	16 *
509	509	510	510	511	511	510	509	508	08 00	517	12 20	485	32	17 *
510	510	510	511	512	512	512	513	506	07 57	512	12 20	484	28	18 *
508	508	510	511	512	514	519	519	508	23 48	522	12 30	500	22	19
520	518	516	516	516	516	518	519	512	15 10	521	05 39	496	25	20
519	521	522	525	524	526	524	518	516	19 23	526	11 20	495	31	21
523	520	516	514	513	513	514	512	515	15 25	526	11 50	501	25	22
520	517	514	512	513	517	512	512	511	16 12	520	11 15	492	28	23
524	522	521	517	516	516	513	513	514	16 10	524	11 40	498	26	24
524	527	534	530	526	521	516	506	514	18 26	537	11 50	495	42	25
529	529	527	529	521	508	500	506	511	19 45	536	11 00	490	46	26 **
526	531	542	536	532	522	512	509	512	19 10	551	04 37	482	69	27 **
671	694	731	603	486	512	468	475	547	19 01	898†	22 58	408	490	28 **
538	538	537	537	536	536	534	528	520	09 04	543	02 25	445	98	29 **
538	542	533	533	533	532	531	528	531	17 11	547	12 00	501	46	30
531	529	529	528	527	527	527	526	527	08 40	532	12 21	516	16	31
528	529	530	525	520	520	517	516	516	-	541	-	484	57.1	Mean
514	513	513	514	514	513	512	512	510	-	517	-	492	25.4	Mean *
559	565	574	547	521	522	509	510	517	-	613	-	412	201.4	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE III. - HOURLY MEANS OF VERTICAL COMPONENT OF MAGNETIC INTENSITY

U.T.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>
NOVEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1	526	525	524	524	524	524	523	524	524	523	518	513	515	517	520	522	
2	525	524	522	522	522	520	522	524	525	525	519	519	518	516	519	522	
3	524	521	519	519	519	519	518	520	523	521	517	517	517	519	522	523	
4	522	522	521	521	520	520	519	521	524	522	516	515	517	518	521	521	
5 **	519	518	517	516	517	514	514	516	519	516	511	512	514	521	532	537	
6	510	515	518	517	514	511	513	516	517	521	521	517	518	523	527	528	
7 **	519	520	516	516	516	516	514	514	514	517	518	527	536	549	562	578	
8 **	521	514	497	496	500	507	512	517	525	527	523	518	520	528	532	534	
9	525	524	519	519	520	521	521	521	523	521	514	512	514	519	527	533	
10	522	522	524	524	524	524	524	523	521	516	514	513	515	518	525	532	
11	520	523	523	523	524	524	524	525	525	519	517	516	512	517	523	526	
12	515	512	509	513	517	518	517	518	518	517	515	515	516	519	526	535	
13	517	516	517	518	520	523	523	524	524	523	518	515	512	515	520	523	
14	519	518	517	519	518	515	517	515	517	520	515	508	506	508	513	515	
15 *	520	519	518	519	519	519	522	525	526	524	517	513	513	514	518	518	
16	517	516	516	516	516	516	518	520	521	520	516	512	511	515	518	519	
17 **	517	516	515	515	515	515	517	516	518	516	513	513	514	515	517	525	
18 **	495	502	504	501	504	510	512	505	512	515	514	517	531	537	536	544	
19	515	514	510	511	512	512	513	518	519	518	515	515	519	522	523	525	
20	523	524	524	521	519	516	514	514	517	515	511	512	522	528	533	534	
21	522	521	515	515	513	513	514	515	517	518	516	517	519	524	526	526	
22 *	516	518	519	521	521	519	519	518	517	516	514	515	515	519	523	524	
23 *	518	519	519	519	519	519	517	517	517	517	513	511	513	516	520	523	
24 *	516	517	518	520	520	520	519	518	519	516	515	509	509	514	519	520	
25	514	514	514	515	517	518	517	515	515	514	513	510	506	507	513	518	
26	515	515	515	515	516	517	516	515	516	515	510	506	506	507	513	515	
27	514	513	512	514	515	517	518	518	518	515	509	508	509	513	515	515	
28	515	515	515	516	516	516	517	518	518	515	510	509	508	509	514	516	
29	515	515	514	514	515	516	518	518	518	515	510	509	510	510	514	515	
30 *	516	515	514	515	515	515	516	517	518	517	515	512	511	512	515	515	
Mean	518	518	516	516	517	517	518	518	519	518	515	513	515	518	523	526	
Mean *	517	518	518	519	519	518	519	519	519	518	515	512	512	515	519	520	
Mean **	514	514	510	509	510	513	514	514	518	518	516	517	523	530	536	544	
DECEMBER																	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )																	
1 **	516	515	514	511	510	510	510	511	515	514	512	510	513	542	581	572	
2 **	511	497	496	507	515	512	516	519	524	523	523	530	534	545	556	584	
3 **	488	469	475	465	450	456	467	487	503	517	525	529	537	551	548	548	
4	526	525	522	523	525	524	525	525	524	524	525	525	526	528	531	535	
5	522	523	523	523	522	522	520	520	519	519	517	517	518	522	526	526	
6	527	525	521	518	515	518	519	519	519	518	516	516	517	520	528	535	
7	523	524	523	522	522	520	519	519	519	518	518	517	521	523	525	527	
8 *	525	525	525	525	525	524	523	519	520	519	515	515	517	521	525	525	
9	519	519	520	521	521	521	520	519	517	516	511	510	514	517	522	524	
10	519	518	520	521	521	522	521	520	520	517	515	512	513	518	521	526	
11	522	519	518	518	519	521	520	519	519	518	521	521	519	521	526	532	
12	531	528	523	521	521	524	526	527	526	524	522	519	516	520	525	527	
13	521	520	521	521	522	522	523	523	523	522	517	515	515	517	521	523	
14	518	514	515	517	519	520	521	521	521	520	519	518	516	517	519	520	
15	520	517	517	516	516	516	517	517	518	518	517	518	518	521	523	524	
16	519	518	516	516	517	517	517	516	517	517	517	519	519	521	522	522	
17	518	517	514	514	513	514	515	516	518	520	519	519	518	519	520	519	
18 *	516	516	516	511	511	512	511	512	514	514	513	513	515	517	518	518	
19 *	516	516	514	512	512	511	511	511	513	511	509	509	510	516	519	518	
20 *	514	515	515	513	513	511	510	511	511	510	508	509	510	515	520	520	
21	513	513	514	513	511	511	510	509	509	509	509	509	511	515	518	520	
22	511	511	512	513	513	512	511	510	510	508	506	507	510	514	518	520	
23	513	514	513	512	512	510	510	508	507	507	508	509	509	512	518	520	
24	507	508	509	510	511	513	512	511	509	508	506	504	501	504	513	521	
25 *	512	512	513	515	515	515	516	515	513	511	507	502	506	510	516	517	
26	511	510	511	512	512	513	514	513	513	511	507	500	498	503	510	515	
27	509	506	504	503	506	509	511	511	512	512	510	509	508	510	514	516	
28 **	511	511	510	510	511	512	512	512	511	508	508	513	509	511	516	532	
29	501	501	504	507	511	515	516	517	518	517	514	512	511	514	519	518	
30 **	509	510	511	510	508	508	512	513	515	517	518	513	517	520	522	530	
31	514	513	513	515	515	516	516	516	517	517	513	513	515	519	521	521	
Mean	516	514	514	513	513	514	515	515	516	516	514	514	515	519	525	528	
Mean *	517	517	517	515	515	515	514	514	514	513	510	510	512	516	520	520	
Mean **	507	500	501	501	499	500	503	508	514	516	517	519	522	534	545	553	

\* International Quiet Day. \*\* International Disturbed Day.

AND EXTREME VALUES RECORDED EACH DAY

16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	24 <sup>h</sup>	Mean	Maximum	Minimum	Range	Date	
43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
									h m		h m		Y	
522	523	524	530	529	526	526	525	523	19 59	533	11 35	512	21	1
523	525	525	524	524	526	526	527	523	23 35	527	13 30	517	10	2
523	523	522	522	523	524	525	524	521	22 22	528	12 14	516	12	3
520	519	519	521	521	524	527	525	521	22 40	528	10 40	514	14	4
536	537	536	536	534	528	527	511	522	16 58	539	23 51	507	32	5 **
527	525	522	520	519	519	519	519	519	15 32	530	00 20	508	22	6
573	563	567	576	551	519	525	524	535	15 55	592†	21 12	506	86	7 **
533	529	528	527	534	527	526	523	521	20 31	540	03 14	491†	49	8 **
535	534	535	530	526	525	524	523	524	18 42	541	11 40	510	31	9
530	529	527	526	525	523	520	520	523	15 30	531	10 45	512	19	10
527	527	525	524	522	520	523	517	522	17 00	529	12 00	511	18	11
544	545	540	536	533	534	526	520	523	17 05	546	02 19	508	38	12
524	524	524	523	523	523	522	521	521	07 10	524	12 25	511	13	13
518	520	527	533	534	531	525	523	519	20 45	534	12 12	503	31	14
519	520	521	522	522	523	523	519	520	08 20	528	11 45	511	17	15 *
518	519	519	520	520	522	527	522	518	22 00	531	11 35	511	20	16
524	523	524	526	529	531	531	518	519	22 10	534	24 00	501	33	17 **
549	558	539	540	539	534	528	523	523	17 40	571	00 50	492	79	18 **
525	524	523	521	521	523	523	523	519	16 20	526	05 02	509	17	19
538	536	533	536	538	533	528	524	525	16 10	543	10 41	508	35	20
526	524	521	521	520	520	520	519	519	15 30	528	04 20	511	17	21
524	523	520	518	517	517	517	517	519	15 31	524	10 16	513	11	22 *
523	523	521	520	518	515	515	515	518	14 50	521	11 18	511	10	23 *
523	523	522	520	519	518	517	515	518	18 16	523	11 35	510	13	24 *
523	523	523	523	520	519	517	516	516	17 00	522	12 50	505	17	25
518	519	522	523	520	518	519	516	515	19 13	522	12 48	504	18	26
518	519	523	520	519	518	516	515	515	18 32	525	11 30	509	16	27
519	519	524	525	524	521	519	516	516	18 31	526	12 58	508	18	28
517	518	517	517	518	517	519	516	515	07 52	520	11 08	510	10	29
517	518	518	519	519	519	518	516	516	19 55	521	11 00	511	10	30 *
527	527	526	527	525	523	523	520	520	-	533	-	508	24.6	Mean
521	521	520	520	519	518	518	516	518	-	523	-	511	12.2	Mean *
543	542	539	541	537	528	527	520	524	-	555	-	499	55.8	Mean **

43000 $\gamma$ + Tabular Quantities (in $\gamma$ )														
									h m		h m		Y	
591	577	572	555	546	546	545	527	534	16 21	611	23 54	512	99	1 **
615	585	585	570	554	521	517	515	536	16 32	641†	01 51	485	156	2 **
549	546	542	541	537	517	521	526	512	13 28	553	04 44	443†	110	3 **
538	533	528	526	526	526	527	523	527	16 46	542	23 38	522	20	4
526	546	541	539	542	536	531	528	526	17 44	573	11 00	518	55	5
543	553	548	542	537	531	527	525	527	17 26	564	11 35	513	51	6
529	527	526	525	523	521	523	521	522	16 35	529	11 20	514	15	7
526	525	521	520	519	518	517	517	521	16 10	525	11 20	513	12	8 *
525	525	523	521	522	520	519	518	519	16 30	525	11 08	511	14	9
528	530	528	531	538	540	532	525	523	21 09	543	11 50	512	31	10
535	544	558	571	573	559	544	538	531	20 22	576	09 26	515	61	11
528	528	528	528	526	524	522	521	524	00 00	534	12 06	515	19	12
523	523	523	523	522	527	527	522	521	21 55	533	13 01	514	19	13
520	520	520	522	522	522	524	524	520	22 53	527	12 55	515	12	14
523	522	521	521	522	529	522	519	520	22 00	535	04 24	515	20	15
521	520	520	521	521	522	523	521	519	22 53	525	03 38	515	10	16
519	518	518	518	519	519	520	518	518	21 31	522	04 00	513	9	17
517	515	513	513	514	515	516	515	514	15 20	520	06 40	512	8	18 *
516	515	512	512	512	513	513	512	513	14 45	521	12 00	510	11	19 **
519	517	516	516	517	516	515	513	514	14 50	523	11 40	507	16	20 *
517	516	514	513	512	512	512	511	513	15 00	519	11 20	507	12	21
522	523	525	523	522	519	518	515	515	18 05	526	10 30	504	22	22
521	520	519	518	516	516	527	509	514	22 23	536	23 50	506	30	23
526	523	523	524	521	518	513	512	513	19 57	526	12 40	498	28	24
517	518	518	517	514	515	513	512	513	18 21	519	11 40	504	15	25 *
516	517	518	520	520	519	517	513	512	18 55	522	12 58	497	25	26
516	517	517	517	515	514	512	511	511	16 25	518	02 58	502	16	27
542	543	540	533	533	527	523	517	519	17 03	547	24 00	505	42	28 **
519	520	520	520	521	522	520	508	514	22 22	531	01 34	497	34	29
541	527	525	524	525	522	520	517	518	16 33	546	03 52	504	42	30 **
521	520	523	525	520	521	519	519	518	19 01	529	10 50	512	17	31
531	529	529	527	526	523	522	518	519	-	540	-	507	33.3	Mean
519	518	516	516	515	515	515	514	515	-	522	-	509	12.4	Mean *
568	556	553	545	539	527	525	520	524	-	580	-	490	89.8	Mean **

\* International Quiet Day. \*\* International Disturbed Day. † Indicates extreme monthly value.

TABLE IV. - K-INDICES

Date	January		February		March		April		May		June							
	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum	Indices	Sum						
1	2231	2201	13	1000	1121	6	0212	3023	13	5332	1123	20	2313	3403	19	3324	5532	27
2	0001	1012	5	0100	1000	2	2321	0013	12	2232	2233	19	5322	1211	17	3233	4441	24
3	1110	1100	5	1003	4322	15	3110	1110	8	3433	2223	22	1200	1100	5	2322	2112	15
4	0000	1001	2	1211	4366	24	0001	2001	4	3120	1111	10	0001	0234	10	1222	3201	13
5	0010	0032	6	5442	1200	18	1211	1145	16	3311	1100	10	2332	2543	24	1311	1222	13
6	1201	2011	8	2233	3433	23	5533	3110	21	2111	2244	17	3544	4244	30	1221	2543	20
7	3311	2113	15	3321	2124	18	0001	1123	8	4311	1111	13	3243	3433	25	2234	5433	26
8	4333	3443	27	2211	2233	16	2110	1123	11	1123	1122	13	2222	2333	19	3232	3332	21
9	3333	2355	27	3222	2102	14	2220	3334	19	2225	4333	24	1234	3322	20	1112	1232	13
10	2001	1111	7	2000	0022	6	4455	4310	26	4323	3333	24	2111	2123	13	2111	2000	7
11	0000	0000	0	3323	1022	16	1112	2131	12	4422	3532	25	4332	3342	24	0101	2110	6
12	0211	1132	11	0001	0101	3	3011	2102	10	2121	3333	18	3322	2333	21	1322	2210	13
13	2012	2132	13	1134	3542	23	3121	1322	15	1221	3432	18	5422	3322	23	0111	2111	8
14	1010	0113	7	2112	1133	14	4433	3442	27	3223	3566	30	3423	2211	18	2000	0013	6
15	3232	2206	20	2112	2111	11	2323	4235	24	7542	3333	30	0011	1222	9	2223	3321	18
16	3330	0033	15	3334	3322	23	4242	3310	19	3222	3334	22	4443	4432	28	4213	2332	20
17	2112	2123	14	2023	4345	23	2243	2211	17	1221	2110	10	3112	3311	15	1101	3212	11
18	3122	4343	22	5444	4652	34	2121	2443	19	1121	1101	8	1010	1110	5	1112	2435	19
19	3221	3465	26	3222	4442	23	1553	4543	30	2221	1333	7	2122	2334	19	2311	1232	15
20	5433	3442	28	3233	4544	28	3223	3242	21	4121	1121	13	3432	3331	22	1322	0333	17
21	2333	3411	20	2233	3534	25	3322	1331	18	0000	1111	4	2211	1232	14	4444	4445	33
22	1234	3443	24	3322	2324	21	2333	2200	15	0011	3233	13	2222	2332	18	5433	3554	32
23	2111	1212	11	3222	2242	19	1222	3221	15	0111	2223	12	2323	4431	22	3110	2322	14
24	3233	2354	25	2331	2100	12	1123	2213	15	3112	2333	18	3210	2313	15	2211	2121	12
25	4423	3222	22	0001	0023	6	2011	2112	10	3210	1222	13	3552	3441	27	1213	2223	16
26	1222	3223	17	2100	1110	6	0222	3213	15	2322	3440	20	3211	3212	15	1100	3330	11
27	2112	2121	12	0321	2310	12	1222	3542	21	2233	3322	20	3222	1101	12	0132	3200	11
28	4212	2352	21	2222	2132	16	3333	3221	20	3221	1122	14	1112	3333	17	0111	1111	7
29	2211	3232	16				0112	3231	13	3002	2113	12	1221	1121	11	3533	3321	23
30	2202	0001	7				2331	2220	15	2111	3323	16	2113	3323	18	2000	1111	6
31	2110	1010	6				0011	2322	11				3333	4433	26			

1969]

## MAGNETIC RESULTS 1961 (HARTLAND)

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FOR THE YEAR 1961

Date	July			August			September			October			November			December		
	Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum		Indices	Sum	
1	2122	2311	14	3310	1122	13	4443	2354	29	7655	4212	32	1111	1031	9	0134	6544	27
2	1222	2443	20	5534	3432	29	2233	3323	21	0011	2330	10	0010	1012	5	5434	4665	37
3	3234	4431	24	2333	3333	23	3323	2221	18	0001	2221	8	2220	0002	8	6553	4344	34
4	2222	3335	22	5323	3322	23	0012	1102	7	1111	2223	13	1000	0123	7	2121	2313	15
5	5533	4433	30	2223	3223	19	4221	2333	20	2110	0020	6	3322	4334	24	1110	2542	16
6	2322	2432	20	3212	3222	17	1201	2100	7	1011	1233	12	3333	2112	18	3301	3443	21
7	3233	3321	20	0010	1122	7	0100	1111	5	3212	2000	10	3234	3564	30	2223	3000	12
8	2122	3312	16	1233	2341	19	0000	0111	3	0022	1210	8	5332	3043	23	0001	0000	1
9	2232	1310	14	1210	1110	7	0133	2112	13	2111	1000	6	3231	2241	18	0001	1121	6
10	3432	2322	21	3221	3221	16	3012	2322	15	0000	1012	4	2211	1100	8	0101	1233	11
11	3212	2232	17	3423	3334	25	1122	2333	17	2132	2233	18	0000	0003	3	3232	1352	21
12	1124	1120	12	1211	1233	14	2343	2113	19	4331	2323	21	3222	2324	20	3300	0100	7
13	0116	7765	33	2110	0010	5	2210	0333	14	3422	1323	20	3101	0001	6	0001	0114	7
14	4367	5553	38	0011	3430	12	3333	4234	25	4112	2101	12	2332	2132	18	3000	1013	8
15	2322	4343	23	1132	2322	16	2111	1102	9	1001	1120	6	0000	0002	2	2211	1104	12
16	5322	3442	25	2210	0111	8	2112	2123	14	0000	0000	0	0000	0003	3	1112	1003	9
17	2223	3356	26	0002	2222	10	4312	1120	14	0000	0002	2	3201	4425	21	2111	0001	6
18	4554	6645	39	1001	2311	9	1301	2310	11	0000	1110	3	5354	3553	33	2100	0000	3
19	5410	2220	16	2332	2101	14	0200	1000	3	2201	1023	11	4221	2000	11	0000	0100	1
20	1332	1344	21	1002	1431	12	2221	1333	17	6331	0100	14	0233	3333	20	0001	1012	5
21	4542	2332	25	2101	1210	8	0001	0110	3	2112	2323	16	3201	1123	13	0200	0011	4
22	2232	3311	17	1010	0001	3	0011	3232	12	2111	2201	10	2001	1000	4	1100	2221	9
23	1123	3543	22	0010	1112	6	0010	1111	5	0001	0224	9	0000	1011	3	2221	3215	18
24	2332	3222	19	0010	2332	11	1124	5645	28	1221	1011	9	1000	0112	5	2111	2222	13
25	4233	3322	22	2222	3223	18	4443	3333	27	1101	2334	15	2111	0110	7	0001	0001	2
26	4421	2254	24	2213	3234	20	3222	3443	23	3342	2355	27	0102	1123	10	1000	1111	5
27	3478	5446	41	3131	1221	14	3433	4423	26	3523	3355	29	3001	1120	8	3221	2112	14
28	4233	3443	26	2211	1021	10	1010	0023	7	2245	6687	40	0001	1220	6	2213	4434	23
29	1321	2222	15	2001	2444	17	2210	1211	10	6454	2103	25	2100	0002	5	4212	2215	19
30	3221	1232	16	5323	5444	30	2212	2057	21	0012	3312	12	1000	0000	1	2323	2423	21
31	1111	3221	12	4433	3434	28				1022	1000	6				2111	1142	13

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

All Days

DECLINATION WEST (Unit 0'.01)

Month and Season, 1961	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-196	-141	-82	-97	-55	-63	-20	-15	-38	+9	+85	+187	+319
February	-231	-212	-150	-67	-59	-61	-57	-71	-104	-93	+30	+241	+417
March	-192	-225	-210	-219	-180	-118	-130	-179	-226	-203	-47	+228	+479
April	-214	-176	-180	-152	-161	-191	-235	-391	-482	-388	-142	+215	+514
May	-141	-196	-207	-189	-216	-267	-318	-395	-395	-287	-76	+166	+378
June	-115	-115	-190	-162	-252	-355	-490	-523	-483	-356	-102	+169	+413
July	-126	-117	-168	-212	-214	-324	-395	-476	-517	-410	-149	+144	+393
August	-142	-147	-179	-177	-210	-322	-436	-473	-431	-288	-3	+279	+514
September	-100	-124	-177	-200	-213	-211	-257	-293	-313	-170	+103	+385	+569
October	-189	-179	-131	-141	-107	-76	-66	-144	-262	-241	-86	+223	+472
November	-162	-158	-78	-32	-9	+2	-32	-52	-108	-126	-10	+159	+309
December	-174	-98	-57	-7	+31	+38	+12	-22	-79	-86	-8	+148	+296
Year	-165	-157	-151	-138	-137	-162	-202	-253	-287	-220	-34	+212	+423
Winter	-191	-152	-92	-51	-23	-21	-24	-40	-82	-74	+24	+184	+335
Equinox	-174	-176	-175	-178	-165	-149	-172	-252	-321	-251	-43	+263	+509
Summer	-131	-144	-186	-185	-223	-317	-410	-467	-457	-335	-83	+189	+425

INCLINATION (Unit 0'.01)

January	-15	-7	-11	-31	-63	-94	-98	-78	-58	-16	+16	+43	+35
February	-21	-32	-20	-31	-48	-75	-85	-94	-57	-5	+52	+60	+55
March	-16	-24	-26	-43	-44	-60	-75	-49	-26	+23	+59	+61	+57
April	-61	-53	-67	-42	-50	-60	-53	-33	+16	+74	+133	+129	+102
May	-64	-46	-22	-19	-13	-4	-2	+41	+70	+93	+86	+76	+62
June	-58	-55	-41	-34	-44	-20	+1	+49	+89	+121	+116	+87	+90
July	-74	-77	-87	-73	-61	-48	+2	+61	+144	+220	+199	+128	+112
August	-96	-66	-62	-52	-49	-33	+3	+55	+108	+131	+126	+103	+76
September	-74	-66	-41	-50	-39	-33	-17	+5	+35	+76	+96	+87	+72
October	-60	-59	-49	-72	-74	-90	-74	-66	-6	+50	+61	+78	+100
November	-39	-29	-32	-33	-51	-69	-81	-67	-21	+26	+48	+71	+81
December	-27	-50	-54	-73	-83	-93	-97	-87	-63	-18	+25	+59	+69
Year	-50	-47	-43	-46	-52	-57	-48	-22	+19	+65	+85	+82	+76
Winter	-25	-29	-29	-42	-61	-83	-90	-81	-50	-3	+35	+58	+60
Equinox	-53	-51	-46	-52	-52	-61	-55	-36	+5	+56	+87	+89	+83
Summer	-73	-61	-53	-45	-42	-26	+1	+51	+103	+141	+132	+99	+85

HORIZONTAL INTENSITY (Unit 0.1γ)

January	+17	0	+4	+36	+79	+123	+127	+97	+67	+3	-46	-91	-81
February	+19	+30	+13	+33	+55	+98	+112	+126	+74	-13	-111	-130	-117
March	+31	+38	+36	+59	+59	+81	+107	+71	+29	-64	-144	-165	-152
April	+95	+74	+94	+51	+65	+86	+82	+59	-24	-139	-262	-285	-249
May	+104	+66	+28	+28	+27	+16	+7	-66	-124	-181	-197	-202	-179
June	+86	+73	+52	+46	+66	+35	+1	-76	-150	-218	-238	-217	-219
July	+87	+78	+91	+75	+64	+55	-14	-99	-234	-368	-362	-272	-252
August	+137	+87	+82	+69	+73	+59	+8	-71	-163	-226	-252	-238	-195
September	+109	+96	+61	+76	+59	+51	+29	-1	-58	-147	-210	-208	-177
October	+70	+56	+39	+81	+97	+122	+101	+100	+16	-82	-126	-174	-197
November	+48	+33	+31	+34	+62	+90	+110	+92	+28	-47	-95	-135	-144
December	+23	+51	+56	+84	+99	+116	+124	+111	+79	+11	-59	-112	-123
Year	+69	+57	+49	+56	+67	+78	+66	+29	-38	-123	-175	-186	-174
Winter	+27	+29	+26	+47	+74	+107	+118	+107	+62	-11	-78	-117	-116
Equinox	+76	+66	+57	+67	+70	+85	+80	+57	-9	-108	-185	-208	-194
Summer	+103	+76	+63	+55	+57	+41	+1	-78	-168	-248	-262	-232	-211

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## All Days

## DECLINATION WEST (Unit 0'.01)

Universal Time. Hour commencing											Range	Month and Season, 1961
13	14	15	16	17	18	19	20	21	22	23		
+380	+283	+201	+113	+ 66	- 14	- 68	-137	-193	-267	-261	6.47	January
+438	+414	+336	+152	+ 96	+ 13	- 74	-136	-249	-270	-296	7.34	February
+576	+470	+362	+204	+ 89	+ 44	- 7	- 62	-116	-171	-168	8.02	March
+697	+690	+569	+395	+196	+ 78	- 22	- 50	-179	-191	-207	11.79	April
+513	+518	+447	+355	+266	+133	+ 73	+ 43	- 11	- 67	-119	9.13	May
+552	+607	+525	+424	+275	+122	+ 75	+ 47	+ 2	- 14	- 59	11.30	June
+584	+645	+603	+435	+288	+127	+ 34	+ 19	- 18	- 62	- 91	11.62	July
+646	+600	+498	+324	+166	+ 33	+ 7	- 26	- 41	- 66	-126	11.19	August
+602	+506	+327	+202	+ 82	+ 4	- 35	-109	-186	-230	-154	9.15	September
+550	+520	+393	+237	+119	+ 65	-105	-168	-252	-242	-195	8.12	October
+382	+357	+259	+139	+ 60	+ 4	- 76	-177	-165	-251	-234	6.33	November
+351	+361	+254	+135	+ 90	- 4	- 66	-185	-295	-363	-277	7.24	December
+523	+498	+398	+260	+149	+ 50	- 22	- 78	-142	-183	-182	8.97	Year
+388	+354	+263	+135	+ 78	0	- 71	-159	-225	-288	-267	6.85	Winter
+606	+547	+413	+259	+121	+ 48	- 42	- 97	-183	-209	-181	9.27	Equinox
+574	+593	+518	+385	+249	+104	+ 47	+ 21	- 17	- 52	- 99	10.81	Summer

## INCLINATION (Unit 0'.01)

+ 41	+ 43	+ 58	+ 86	+ 63	+ 47	+ 32	+ 15	+ 5	- 10	- 15	1.84	January
+ 35	+ 24	+ 55	+ 61	+ 36	+ 16	+ 15	+ 45	+ 26	+ 6	- 22	1.55	February
+ 56	+ 67	+ 54	+ 48	+ 43	+ 6	- 17	- 26	- 22	- 25	- 19	1.42	March
+ 76	+ 63	+ 38	+ 26	- 5	- 19	- 38	- 49	- 41	- 38	- 40	2.00	April
+ 52	+ 47	+ 17	- 20	- 33	- 63	- 52	- 44	- 52	- 50	- 60	1.57	May
+ 81	+ 55	+ 23	- 19	- 55	- 72	- 79	- 63	- 67	- 57	- 55	2.00	June
+ 65	+ 28	+ 11	- 4	- 61	- 81	- 80	- 92	- 97	- 71	- 68	3.17	July
+ 62	+ 66	+ 38	+ 13	- 14	- 29	- 59	- 64	- 74	- 84	- 94	2.27	August
+ 56	+ 52	+ 55	+ 43	+ 18	- 13	- 36	- 28	- 68	- 59	- 72	1.70	September
+ 81	+ 62	+ 60	+ 61	+ 37	+ 35	+ 1	+ 4	+ 11	- 33	- 53	1.90	October
+ 67	+ 56	+ 52	+ 36	+ 20	+ 20	+ 20	+ 2	- 5	- 27	- 41	1.62	November
+ 66	+ 66	+ 64	+ 84	+ 66	+ 55	+ 48	+ 33	+ 13	+ 7	- 13	1.81	December
+ 61	+ 52	+ 44	+ 35	+ 10	- 8	- 20	- 22	- 31	- 37	- 46	1.90	Year
+ 52	+ 47	+ 57	+ 67	+ 46	+ 35	+ 29	+ 24	+ 10	- 6	- 23	1.71	Winter
+ 67	+ 61	+ 52	+ 45	+ 23	+ 2	- 23	- 25	- 30	- 39	- 46	1.75	Equinox
+ 65	+ 49	+ 22	- 7	- 41	- 61	- 67	- 66	- 73	- 65	- 69	2.25	Summer

## HORIZONTAL INTENSITY (Unit 0.1γ)

											γ	
- 72	- 55	- 68	- 97	- 57	- 30	- 13	+ 4	+ 13	+ 27	+ 24	22.4	January
- 66	- 33	- 60	- 52	- 15	+ 16	+ 18	- 24	- 5	+ 9	+ 31	25.6	February
-123	-103	- 53	- 24	- 12	+ 33	+ 63	+ 72	+ 61	+ 58	+ 40	27.2	March
-182	-114	- 35	+ 9	+ 77	+ 98	+115	+119	+101	+ 82	+ 72	40.4	April
-136	- 90	- 11	+ 67	+104	+160	+136	+112	+114	+104	+111	36.2	May
-181	-104	- 17	+ 71	+150	+187	+186	+146	+134	+105	+ 92	42.5	June
-154	- 46	+ 25	+ 86	+193	+234	+216	+206	+177	+119	+ 95	60.2	July
-149	-114	- 33	+ 33	+ 83	+105	+139	+136	+136	+140	+145	39.7	August
-125	- 84	- 54	- 21	+ 24	+ 69	+ 99	+ 81	+132	+101	+103	34.2	September
-139	- 78	- 54	- 36	+ 3	+ 10	+ 38	+ 13	+ 2	+ 55	+ 81	31.9	October
-109	- 73	- 53	- 24	- 1	- 3	- 3	+ 19	+ 21	+ 51	+ 59	25.4	November
- 99	- 77	- 61	- 78	- 56	- 43	- 37	- 20	- 2	+ 1	+ 16	24.7	December
-128	- 81	- 39	- 5	+ 41	+ 70	+ 80	+ 72	+ 74	+ 71	+ 72	34.2	Year
- 87	- 59	- 61	- 63	- 32	- 15	- 9	- 5	+ 7	+ 22	+ 33	24.5	Winter
-142	- 95	- 49	- 18	+ 23	+ 53	+ 79	+ 71	+ 74	+ 74	+ 74	33.4	Equinox
-155	- 89	- 9	+ 64	+133	+171	+169	+150	+140	+117	+111	44.7	Summer

TABLE V. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL  
All Days

Month and Season, 1961	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 35	+ 13	+ 12	+ 45	+ 83	+127	+127	+ 97	+ 70	+ 2	- 53	-107	-110
February	+ 40	+ 49	+ 27	+ 39	+ 60	+102	+116	+131	+ 83	- 4	-112	-151	-154
March	+ 49	+ 58	+ 55	+ 79	+ 75	+ 91	+118	+ 87	+ 50	- 44	-137	-184	-195
April	+114	+ 89	+109	+ 64	+ 79	+103	+103	+ 95	+ 21	-101	-245	-301	-293
May	+116	+ 83	+ 47	+ 45	+ 47	+ 41	+ 37	- 28	- 85	-151	-187	-215	-212
June	+ 95	+ 83	+ 69	+ 60	+ 89	+ 68	+ 47	- 26	-103	-181	-225	-230	-254
July	+ 97	+ 88	+105	+ 94	+ 83	+ 85	+ 23	- 53	-182	-324	-343	-281	-285
August	+148	+ 99	+ 98	+ 85	+ 92	+ 88	+ 49	- 26	-120	-196	-248	-261	-240
September	+117	+106	+ 77	+ 94	+ 78	+ 70	+ 53	+ 26	- 28	-129	-216	-241	-228
October	+ 87	+ 72	+ 51	+ 93	+106	+127	+106	+112	+ 40	- 58	-116	-192	-238
November	+ 62	+ 47	+ 38	+ 36	+ 62	+ 88	+111	+ 95	+ 38	- 35	- 93	-148	-171
December	+ 39	+ 59	+ 60	+ 83	+ 95	+111	+121	+111	+ 85	+ 19	- 57	-124	-149
Year	+ 83	+ 71	+ 62	+ 68	+ 79	+ 92	+ 84	+ 52	- 11	-100	-169	-203	-211
Winter	+ 44	+ 42	+ 34	+ 51	+ 75	+107	+119	+109	+ 69	- 5	- 79	-133	-146
Equinox	+ 92	+ 81	+ 73	+ 83	+ 85	+ 98	+ 95	+ 80	+ 21	- 83	-179	-229	-239
Summer	+114	+ 88	+ 80	+ 71	+ 78	+ 71	+ 39	- 33	-123	-213	-251	-247	-248
	WEST COMPONENT (Unit 0.1γ)												
January	-102	- 76	- 43	- 46	- 16	- 13	+ 11	+ 9	- 9	+ 5	+ 38	+ 85	+157
February	-121	-109	- 78	- 30	- 22	- 16	- 11	- 16	- 43	- 52	- 3	+107	+204
March	- 98	-114	-107	-107	- 87	- 49	- 51	- 84	-116	-120	- 50	+ 94	+231
April	- 99	- 82	- 81	- 73	- 75	- 88	-112	-200	-263	-232	-121	+ 66	+233
May	- 58	- 94	-106	- 97	-111	-141	-170	-224	-233	-185	- 75	+ 54	+172
June	- 47	- 49	- 93	- 79	-124	-185	-263	-294	-285	-229	- 96	+ 53	+184
July	- 53	- 49	- 75	-101	-104	-165	-215	-273	-318	-284	-142	+ 31	+168
August	- 53	- 64	- 82	- 83	-100	-163	-233	-266	-260	-194	- 45	+109	+243
September	- 35	- 50	- 85	- 94	-104	-105	-133	-158	-178	-117	+ 19	+171	+275
October	- 89	- 87	- 64	- 62	- 41	- 20	- 18	- 60	-138	-144	- 68	+ 90	+220
November	- 79	- 79	- 37	- 11	+ 6	+ 17	+ 2	- 12	- 53	- 76	- 22	+ 60	+141
December	- 89	- 44	- 21	+ 11	+ 34	+ 40	+ 28	+ 7	- 29	- 44	- 14	+ 62	+138
Year	- 77	- 75	- 73	- 64	- 62	- 74	- 97	-131	-160	-139	- 48	+ 82	+197
Winter	- 98	- 77	- 45	- 19	+ 1	+ 7	+ 7	- 3	- 33	- 42	0	+ 79	+160
Equinox	- 80	- 83	- 84	- 84	- 77	- 65	- 79	-125	-174	-153	- 55	+105	+240
Summer	- 53	- 64	- 89	- 90	-110	-163	-220	-264	-274	-223	- 89	+ 62	+192
	VERTICAL COMPONENT (Unit 0.1γ)												
January	- 13	- 24	- 28	- 26	- 37	- 42	- 46	- 46	- 45	- 49	- 51	- 62	- 65
February	- 28	- 43	- 39	- 32	- 38	- 35	- 36	- 34	- 27	- 48	- 77	- 92	- 81
March	+ 16	+ 3	- 6	- 12	- 17	- 20	- 12	- 7	- 24	- 69	-128	-172	-154
April	+ 9	- 12	- 17	- 29	- 23	- 11	+ 5	+ 21	- 1	- 66	-145	-213	-223
May	+ 19	- 7	- 13	- 1	+ 16	+ 23	+ 8	- 10	- 43	- 97	-157	-203	-200
June	- 4	- 22	- 21	- 12	0	+ 10	+ 7	- 4	- 38	- 85	-148	-202	-193
July	- 55	- 86	- 93	- 80	- 63	- 39	- 25	- 17	- 43	- 87	-146	-185	-194
August	- 16	- 28	- 27	- 20	- 1	+ 21	+ 30	+ 28	- 2	- 68	-147	-195	-189
September	- 6	- 7	- 2	+ 3	+ 2	+ 3	+ 8	+ 14	- 14	- 86	-153	-178	-161
October	- 48	- 77	- 80	- 63	- 34	- 31	- 23	+ 2	+ 16	- 17	- 81	-132	-109
November	- 25	- 26	- 40	- 37	- 33	- 30	- 26	- 20	- 7	- 17	- 53	- 67	- 53
December	- 39	- 56	- 58	- 60	- 60	- 55	- 49	- 44	- 35	- 38	- 50	- 55	- 45
Year	- 16	- 32	- 35	- 31	- 24	- 17	- 13	- 10	- 22	- 61	-111	-146	-139
Winter	- 26	- 37	- 41	- 39	- 42	- 41	- 39	- 36	- 29	- 38	- 58	- 69	- 61
Equinox	- 7	- 23	- 26	- 25	- 18	- 15	- 5	+ 7	- 6	- 59	-127	-174	-162
Summer	- 14	- 36	- 39	- 28	- 12	+ 4	+ 5	- 1	- 31	- 84	-149	-196	-194

## COMPONENTS OF MAGNETIC INTENSITY

All Days

## NORTH COMPONENT (Unit 0.1γ)

Universal Time. Hour commencing											Range	Month and Season, 1961
13	14	15	16	17	18	19	20	21	22	23	γ	
-106	- 81	- 86	-106	- 62	- 28	- 6	+ 17	+ 31	+ 52	+ 48	23.7	January
-106	- 71	- 91	- 65	- 24	+ 15	+ 25	- 11	+ 18	+ 34	+ 58	28.5	February
-175	-145	- 86	- 43	- 20	+ 28	+ 63	+ 77	+ 71	+ 73	+ 55	31.3	March
-245	-177	- 88	- 28	+ 57	+ 89	+115	+122	+116	+ 99	+ 90	42.3	April
-182	-137	- 53	+ 33	+ 78	+145	+127	+106	+113	+109	+120	36.0	May
-230	-159	- 66	+ 30	+122	+173	+176	+139	+132	+105	+ 96	43.0	June
-206	-106	- 32	+ 44	+163	+219	+210	+201	+176	+123	+102	56.2	July
-207	-168	- 79	+ 2	+ 66	+100	+136	+136	+138	+144	+155	41.6	August
-179	-130	- 84	- 40	+ 16	+ 68	+101	+ 90	+147	+121	+116	38.8	September
-188	-126	- 90	- 58	- 8	+ 4	+ 47	+ 29	+ 26	+ 77	+ 98	36.5	October
-143	-105	- 76	- 37	- 7	- 3	+ 4	+ 35	+ 36	+ 74	+ 80	28.2	November
-130	-110	- 84	- 89	- 64	- 42	- 30	- 2	+ 26	+ 35	+ 42	27.0	December
-175	-126	- 76	- 30	+ 26	+ 64	+ 81	+ 78	+ 86	+ 87	+ 88	36.1	Year
-121	- 92	- 84	- 74	- 39	- 15	- 2	+ 10	+ 28	+ 49	+ 57	26.9	Winter
-197	-145	- 87	- 42	+ 11	+ 47	+ 81	+ 79	+ 90	+ 93	+ 90	37.2	Equinox
-206	-143	- 57	+ 27	+107	+159	+162	+145	+140	+120	+118	44.2	Summer

## WEST COMPONENT (Unit 0.1γ)

											γ	
+192	+143	+ 96	+ 44	+ 26	- 13	- 39	- 73	-101	-139	-136	33.1	January
+224	+217	+170	+ 73	+ 49	+ 10	- 37	- 77	-135	-143	-154	37.8	February
+288	+235	+185	+105	+ 46	+ 29	+ 7	- 21	- 52	- 82	- 83	40.8	March
+343	+351	+300	+214	+119	+ 59	+ 8	- 6	- 79	- 88	- 99	61.4	April
+252	+263	+238	+202	+161	+ 99	+ 63	+ 42	+ 14	- 18	- 45	49.6	May
+265	+308	+279	+240	+174	+ 98	+ 72	+ 50	+ 24	+ 11	- 16	60.2	June
+287	+339	+328	+248	+188	+108	+ 55	+ 46	+ 21	- 13	- 33	65.7	July
+321	+303	+262	+180	+103	+ 36	+ 28	+ 9	+ 1	- 11	- 43	58.7	August
+302	+257	+166	+105	+ 48	+ 14	- 2	- 45	- 77	-106	- 65	48.0	September
+271	+266	+202	+121	+ 64	+ 37	- 50	- 88	-135	-121	- 91	41.5	October
+186	+179	+130	+ 71	+ 32	+ 2	- 41	- 92	- 85	-126	-116	31.2	November
+171	+181	+126	+ 59	+ 39	- 10	- 42	-103	-159	-195	-146	37.6	December
+259	+253	+207	+139	+ 87	+ 39	+ 2	- 30	- 64	- 86	- 86	47.1	Year
+193	+180	+131	+ 62	+ 37	- 3	- 40	- 86	-120	-151	-138	34.9	Winter
+301	+277	+213	+136	+ 69	+ 35	- 9	- 40	- 86	- 99	- 85	47.9	Equinox
+281	+303	+277	+217	+157	+ 85	+ 55	+ 37	+ 15	- 8	- 34	58.5	Summer

## VERTICAL COMPONENT (Unit 0.1γ)

											γ	
- 24	+ 23	+ 46	+ 75	+ 86	+ 94	+ 83	+ 63	+ 46	+ 27	+ 4	15.9	January
- 32	+ 6	+ 54	+ 92	+ 91	+ 93	+ 93	+100	+ 78	+ 41	- 6	19.2	February
- 90	- 5	+ 64	+113	+123	+ 99	+ 86	+ 75	+ 64	+ 49	+ 26	29.5	March
-156	- 46	+ 52	+112	+162	+160	+133	+107	+ 93	+ 59	+ 29	38.5	April
-133	- 45	+ 32	+ 87	+127	+152	+135	+108	+ 82	+ 66	+ 48	35.5	May
-137	- 51	+ 39	+ 99	+157	+183	+158	+119	+ 77	+ 44	+ 22	38.5	June
-131	- 10	+ 97	+186	+236	+260	+222	+156	+ 73	+ 28	- 16	45.4	July
-129	- 34	+ 57	+121	+144	+142	+118	+ 91	+ 59	+ 32	+ 9	33.9	August
- 95	- 15	+ 67	+102	+117	+114	+103	+ 89	+ 70	+ 30	- 11	29.5	September
- 41	+ 35	+ 83	+128	+136	+144	+ 90	+ 43	+ 42	+ 11	+ 2	27.6	October
- 19	+ 27	+ 58	+ 70	+ 69	+ 62	+ 64	+ 52	+ 30	+ 24	- 5	13.7	November
+ 1	+ 51	+ 82	+112	+101	+ 91	+ 80	+ 68	+ 41	+ 25	- 9	17.2	December
- 82	- 5	+ 61	+108	+129	+133	+114	+ 89	+ 63	+ 36	+ 8	28.7	Year
- 19	+ 27	+ 60	+ 87	+ 87	+ 85	+ 80	+ 71	+ 49	+ 29	- 4	16.5	Winter
- 95	- 8	+ 67	+114	+135	+129	+103	+ 79	+ 67	+ 37	+ 11	31.3	Equinox
-133	- 35	+ 56	+123	+166	+184	+158	+119	+ 73	+ 43	+ 16	38.3	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

Month and Season, 1961	International Quiet Days												
	DECLINATION WEST (Unit 0'.01)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	- 37	- 39	+ 5	- 11	- 21	- 29	- 91	-131	-143	-111	- 31	+ 73	+177
February	- 86	- 94	- 76	- 44	- 60	- 88	- 92	-140	-188	-214	-118	+ 64	+258
March	-182	-226	-166	-144	-130	-128	-146	-210	-292	-286	-158	+ 86	+406
April	-111	-107	-143	-123	-113	-139	-227	-377	-519	-455	-213	+ 73	+381
May	- 67	- 75	- 99	-147	-187	-269	-383	-447	-435	-305	-119	+113	+355
June	+ 40	+ 34	- 40	-100	-236	-392	-546	-600	-574	-418	- 72	+266	+490
July	- 98	-118	- 86	-174	-194	-390	-424	-430	-480	-382	-182	+112	+378
August	- 60	- 78	-146	-206	-298	-432	-510	-524	-478	-320	- 42	+268	+540
September	- 44	- 86	-122	-170	-210	-240	-304	-386	-412	-276	+ 6	+250	+410
October	- 88	- 82	- 76	- 72	- 78	- 94	-122	-222	-362	-392	-260	+ 40	+340
November	- 70	- 80	- 34	- 6	- 8	- 36	- 72	-116	-178	-210	- 98	+ 74	+232
December	- 34	- 12	+ 10	+ 20	- 16	- 42	- 70	- 86	-140	-166	- 84	+102	+210
Year	- 70	- 80	- 81	- 98	-129	-190	-249	-306	-350	-295	-114	+127	+348
Winter	- 57	- 56	- 24	- 10	- 26	- 49	- 81	-118	-162	-175	- 83	+ 78	+219
Equinox	-106	-125	-127	-127	-133	-150	-200	-299	-396	-352	-156	+112	+384
Summer	- 46	- 59	- 93	-157	-229	-371	-466	-500	-492	-356	-104	+190	+441
	INCLINATION (Unit 0'.01)												
January	+ 15	+ 22	+ 16	- 3	- 21	- 40	- 55	- 52	- 32	+ 19	+ 44	+ 50	+ 32
February	+ 3	+ 1	+ 3	- 5	- 14	- 42	- 55	- 59	- 32	+ 34	+ 75	+ 84	+ 61
March	+ 14	- 10	+ 13	+ 6	0	- 10	- 26	- 32	- 17	+ 14	+ 32	+ 36	+ 2
April	- 34	- 23	- 16	+ 4	- 14	- 31	- 38	- 25	+ 14	+ 75	+115	+127	+ 90
May	- 15	- 14	+ 2	+ 12	+ 23	+ 15	+ 29	+ 46	+ 79	+ 88	+ 75	+ 59	+ 35
June	- 10	- 6	+ 8	+ 1	+ 3	+ 12	+ 35	+ 72	+ 92	+114	+ 98	+ 51	+ 30
July	- 11	- 5	+ 6	+ 10	- 6	- 24	+ 21	+ 81	+112	+139	+170	+118	+ 73
August	- 20	- 18	- 32	- 34	- 18	+ 2	+ 30	+ 76	+113	+108	+ 84	+ 70	+ 54
September	- 19	- 14	- 8	- 13	- 9	- 5	+ 11	+ 29	+ 49	+ 56	+ 69	+ 73	+ 66
October	- 29	- 23	- 26	- 29	- 30	- 30	- 29	- 14	+ 26	+ 70	+110	+113	+ 79
November	0	+ 1	+ 17	+ 10	- 5	- 17	- 30	- 30	- 6	+ 22	+ 43	+ 59	+ 47
December	+ 11	+ 13	+ 8	- 11	- 27	- 42	- 45	- 47	- 28	+ 10	+ 46	+ 68	+ 62
Year	- 8	- 6	- 1	- 4	- 10	- 18	- 13	+ 4	+ 31	+ 62	+ 80	+ 76	+ 53
Winter	+ 7	+ 9	+ 11	- 2	- 17	- 35	- 46	- 47	- 25	+ 21	+ 52	+ 65	+ 51
Equinox	- 17	- 17	- 9	- 8	- 13	- 19	- 21	- 11	+ 18	+ 54	+ 81	+ 87	+ 59
Summer	- 14	- 11	- 4	- 3	+ 1	+ 1	+ 29	+ 69	+ 99	+112	+107	+ 75	+ 48
	HORIZONTAL INTENSITY (Unit 0.1γ)												
January	- 23	- 29	- 23	+ 7	+ 33	+ 61	+ 85	+ 77	+ 43	- 35	- 73	- 89	- 65
February	+ 3	+ 7	+ 1	+ 13	+ 25	+ 67	+ 81	+ 89	+ 53	- 49	-125	-149	-119
March	- 8	+ 24	- 10	+ 2	+ 12	+ 28	+ 50	+ 60	+ 30	- 34	- 92	-124	- 74
April	+ 62	+ 44	+ 40	+ 14	+ 40	+ 70	+ 88	+ 72	- 4	-134	-240	-294	-248
May	+ 46	+ 44	+ 22	+ 10	+ 2	+ 16	- 12	- 50	-120	-164	-184	-188	-162
June	+ 31	+ 25	+ 9	+ 31	+ 33	+ 23	- 21	- 91	-149	-215	-225	-177	-135
July	+ 23	+ 21	+ 5	+ 7	+ 35	+ 69	- 11	-107	-167	-231	-301	-257	-209
August	+ 54	+ 52	+ 68	+ 68	+ 50	+ 26	- 20	- 94	-166	-188	-194	-192	-168
September	+ 56	+ 48	+ 36	+ 40	+ 30	+ 24	+ 6	- 18	- 62	-112	-162	-184	-168
October	+ 55	+ 45	+ 49	+ 53	+ 57	+ 57	+ 59	+ 45	- 11	- 91	-189	-231	-193
November	- 3	- 3	- 27	- 11	+ 11	+ 27	+ 47	+ 49	+ 15	- 33	- 79	-115	- 95
December	- 10	- 12	- 6	+ 16	+ 40	+ 60	+ 64	+ 64	+ 38	- 24	- 90	-126	-108
Year	+ 24	+ 22	+ 14	+ 21	+ 31	+ 44	+ 35	+ 8	- 42	-109	-163	-177	-145
Winter	- 8	- 9	- 14	+ 6	+ 27	+ 54	+ 69	+ 70	+ 37	- 35	- 92	-120	- 97
Equinox	+ 41	+ 40	+ 29	+ 27	+ 35	+ 45	+ 51	+ 40	- 12	- 93	-171	-208	-171
Summer	+ 39	+ 35	+ 26	+ 29	+ 30	+ 33	- 16	- 85	-151	-199	-226	-203	-169

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## International Quiet Days

## DECLINATION WEST (Unit 0'.01)

Universal Time. Hour commencing											Range	Month and Season, 1961
13	14	15	16	17	18	19	20	21	22	23		
+227	+175	+123	+ 91	+ 87	+ 39	- 13	- 77	-119	- 97	- 59	3.70	January
+316	+262	+188	+124	+120	+ 80	+ 42	- 16	- 48	-106	- 86	5.30	February
+474	+432	+316	+198	+172	+166	+108	+ 48	- 48	-120	-166	7.66	March
+575	+587	+471	+309	+181	+ 91	+ 57	+ 5	- 47	- 63	- 81	11.06	April
+487	+507	+429	+355	+261	+175	+ 65	- 33	- 31	- 43	- 95	9.54	May
+594	+584	+464	+268	+110	+ 46	+ 12	+ 16	+ 14	+ 14	+ 22	11.94	June
+586	+666	+602	+440	+264	+ 88	- 68	- 62	- 18	+ 2	- 28	11.46	July
+662	+584	+436	+290	+148	+ 36	+ 40	+ 64	+ 36	+ 20	- 28	11.86	August
+452	+378	+262	+152	+106	+ 82	+ 92	+ 64	+ 26	- 10	- 20	8.64	September
+460	+426	+290	+172	+130	+ 92	+ 38	- 24	- 36	- 26	- 60	8.52	October
+290	+214	+166	+126	+ 96	+ 64	+ 20	- 34	- 88	-138	-118	5.00	November
+256	+198	+126	+ 58	+ 30	- 2	- 28	- 60	-108	-112	- 62	4.22	December
+448	+418	+323	+215	+142	+ 80	+ 30	- 9	- 39	- 57	- 65	8.24	Year
+272	+212	+151	+100	+ 83	+ 45	+ 5	- 47	- 91	-113	- 81	4.55	Winter
+490	+456	+335	+208	+147	+108	+ 74	+ 23	- 26	- 55	- 82	8.97	Equinox
+582	+585	+483	+338	+196	+ 86	+ 12	- 4	0	- 2	- 32	11.20	Summer

## INCLINATION (Unit 0'.01)

+ 9	+ 3	+ 24	+ 32	+ 11	- 15	- 25	- 6	- 7	- 9	- 14	1.05	January
+ 43	+ 24	+ 17	+ 21	+ 20	- 12	- 35	- 43	- 33	- 30	- 31	1.43	February
+ 11	+ 29	+ 35	+ 18	0	- 21	- 32	- 22	- 20	- 9	- 16	0.68	March
+ 51	+ 40	+ 32	+ 19	- 20	- 47	- 52	- 70	- 57	- 71	- 77	2.04	April
+ 30	+ 31	+ 27	- 27	- 54	- 81	- 82	- 68	- 66	- 77	- 69	1.70	May
+ 31	+ 14	- 20	- 29	- 48	- 67	- 75	- 78	- 78	- 78	- 66	1.92	June
+ 41	+ 26	- 9	- 44	-115	-123	- 82	-112	- 93	- 91	- 85	2.93	July
+ 54	+ 58	+ 32	- 8	- 43	- 76	- 88	- 93	- 91	- 89	- 75	2.06	August
+ 55	+ 42	+ 34	+ 3	- 33	- 62	- 72	- 63	- 63	- 70	- 59	1.45	September
+ 37	+ 25	+ 24	+ 10	- 14	- 39	- 44	- 39	- 39	- 50	- 56	1.69	October
+ 20	+ 14	+ 10	+ 5	- 4	- 2	- 13	- 24	- 35	- 46	- 39	1.05	November
+ 42	+ 25	+ 11	+ 3	0	- 15	- 19	- 15	- 21	- 17	- 12	1.15	December
+ 35	+ 28	+ 18	0	- 25	- 47	- 52	- 53	- 50	- 53	- 50	1.60	Year
+ 29	+ 17	+ 15	+ 15	+ 7	- 11	- 23	- 22	- 24	- 25	- 24	1.17	Winter
+ 39	+ 34	+ 31	+ 13	- 17	- 42	- 50	- 49	- 45	- 50	- 52	1.47	Equinox
+ 39	+ 32	+ 7	- 27	- 65	- 87	- 82	- 88	- 82	- 84	- 74	2.15	Summer

## HORIZONTAL INTENSITY (Unit 0.1γ)

											γ	
- 21	- 3	- 29	- 41	- 9	+ 33	+ 45	+ 15	+ 13	+ 11	+ 15	17.4	January
- 79	- 37	- 23	- 27	- 25	+ 27	+ 59	+ 69	+ 53	+ 49	+ 49	23.8	February
- 62	- 60	- 42	0	+ 20	+ 48	+ 66	+ 52	+ 48	+ 30	+ 38	19.0	March
-158	- 96	- 44	- 2	+ 74	+114	+114	+134	+110	+124	+130	42.8	April
-138	-104	- 54	+ 54	+114	+168	+170	+144	+128	+134	+122	35.8	May
-113	- 47	+ 47	+ 79	+119	+145	+143	+133	+125	+121	+105	37.0	June
-149	- 85	+ 5	+ 87	+217	+243	+179	+205	+155	+139	+127	54.4	July
-144	-114	- 40	+ 36	+ 96	+144	+154	+154	+152	+148	+126	34.8	August
-124	- 80	- 46	+ 4	+ 58	+ 98	+118	+104	+108	+120	+104	30.4	September
-113	- 65	- 37	+ 1	+ 33	+ 73	+ 81	+ 73	+ 71	+ 83	+ 91	32.2	October
- 43	- 17	- 7	+ 7	+ 21	+ 13	+ 27	+ 41	+ 55	+ 69	+ 51	18.4	November
- 60	- 18	+ 2	+ 12	+ 12	+ 26	+ 30	+ 22	+ 32	+ 24	+ 12	19.0	December
-100	- 61	- 22	+ 17	+ 61	+ 94	+ 99	+ 95	+ 87	+ 88	+ 81	30.4	Year
- 51	- 19	- 14	- 12	0	+ 25	+ 40	+ 37	+ 38	+ 38	+ 32	19.7	Winter
-114	- 75	- 42	+ 1	+ 46	+ 83	+ 95	+ 91	+ 84	+ 89	+ 91	31.1	Equinox
-136	- 87	- 11	+ 64	+137	+175	+161	+159	+140	+135	+120	40.5	Summer

TABLE VI. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL  
International Quiet Days

Month and Season, 1961	NORTH COMPONENT (Unit 0.1γ)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	- 19	- 25	- 23	+ 8	+ 34	+ 63	+ 92	+ 88	+ 56	- 24	- 69	- 94	- 81
February	+ 11	+ 16	+ 8	+ 17	+ 30	+ 74	+ 88	+101	+ 70	- 28	-112	-153	-141
March	+ 9	+ 45	+ 6	+ 15	+ 24	+ 40	+ 63	+ 79	+ 57	- 7	- 76	-130	-111
April	+ 71	+ 53	+ 53	+ 25	+ 50	+ 82	+108	+106	+ 45	- 89	-216	-296	-280
May	+ 52	+ 50	+ 31	+ 24	+ 19	+ 41	+ 24	- 7	- 77	-133	-170	-196	-193
June	+ 27	+ 21	+ 13	+ 40	+ 55	+ 59	+ 30	- 33	- 93	-173	-215	-199	-179
July	+ 32	+ 32	+ 13	+ 23	+ 53	+104	+ 29	- 65	-120	-192	-279	-264	-241
August	+ 59	+ 59	+ 81	+ 86	+ 77	+ 66	+ 28	- 44	-119	-155	-187	-214	-216
September	+ 59	+ 55	+ 47	+ 55	+ 49	+ 46	+ 34	+ 18	- 23	- 84	-160	-205	-204
October	+ 62	+ 52	+ 55	+ 59	+ 63	+ 65	+ 70	+ 65	+ 23	- 53	-162	-231	-222
November	+ 4	+ 5	- 23	- 10	+ 12	+ 30	+ 53	+ 59	+ 31	- 13	- 69	-120	-115
December	- 7	- 11	- 7	+ 14	+ 41	+ 63	+ 70	+ 71	+ 51	- 8	- 81	-134	-126
Year	+ 30	+ 29	+ 21	+ 30	+ 42	+ 61	+ 57	+ 37	- 8	- 80	-150	-186	-176
Winter	- 3	- 4	- 11	+ 7	+ 29	+ 57	+ 76	+ 80	+ 52	- 18	- 83	-125	-116
Equinox	+ 50	+ 51	+ 40	+ 39	+ 47	+ 58	+ 69	+ 67	+ 25	- 58	-153	-215	-204
Summer	+ 43	+ 41	+ 35	+ 43	+ 51	+ 67	+ 28	- 37	-102	-163	-213	-218	-207
	WEST COMPONENT (Unit 0.1γ)												
January	- 24	- 26	- 1	- 5	- 6	- 5	- 34	- 57	- 69	- 66	- 29	+ 24	+ 84
February	- 46	- 49	- 41	- 21	- 28	- 36	- 35	- 60	- 92	-123	- 85	+ 9	+118
March	- 99	-117	- 91	- 77	- 68	- 64	- 70	-102	-152	-159	-101	+ 25	+205
April	- 49	- 50	- 70	- 64	- 54	- 63	-107	-190	-279	-267	-156	- 11	+162
May	- 28	- 33	- 49	- 77	-100	-142	-208	-249	-254	-192	- 96	+ 28	+163
June	+ 27	+ 23	- 20	- 48	-121	-207	-297	-338	-334	-261	- 77	+112	+240
July	- 49	- 60	- 45	- 92	- 98	-198	-230	-249	-287	-245	-150	+ 16	+167
August	- 23	- 33	- 67	- 99	-151	-228	-277	-298	-285	-204	- 56	+111	+261
September	- 14	- 38	- 59	- 84	-108	-125	-162	-210	-232	-168	- 25	+103	+191
October	- 38	- 36	- 32	- 30	- 32	- 41	- 55	-111	-196	-226	-172	- 18	+149
November	- 38	- 43	- 23	- 5	- 2	- 15	- 31	- 54	- 93	-118	- 66	+ 20	+108
December	- 20	- 9	+ 4	+ 13	- 2	- 12	- 27	- 35	- 69	- 93	- 61	+ 33	+ 94
Year	- 33	- 39	- 41	- 49	- 64	- 95	-128	-163	-195	-177	- 89	+ 38	+162
Winter	- 32	- 32	- 15	- 5	- 9	- 17	- 32	- 51	- 81	-100	- 60	+ 21	+101
Equinox	- 50	- 60	- 63	- 64	- 65	- 73	- 99	-153	-215	-205	-113	+ 25	+177
Summer	- 18	- 26	- 45	- 79	-117	-194	-253	-283	-290	-225	- 95	+ 67	+208
	VERTICAL COMPONENT (Unit 0.1γ)												
January	- 1	+ 9	+ 3	+ 5	+ 5	+ 1	+ 5	- 1	- 11	- 15	- 17	- 31	- 41
February	+ 16	+ 20	+ 12	+ 12	+ 8	+ 8	- 2	+ 2	+ 12	+ 4	- 30	- 52	- 64
March	+ 29	+ 21	+ 23	+ 27	+ 29	+ 31	+ 25	+ 27	+ 9	- 31	-101	-161	-165
April	+ 25	+ 21	+ 37	+ 45	+ 45	+ 53	+ 73	+ 79	+ 39	- 49	-155	-239	-261
May	+ 56	+ 52	+ 58	+ 66	+ 86	+ 90	+ 72	+ 44	- 2	- 74	-164	-232	-254
June	+ 36	+ 36	+ 48	+ 74	+ 88	+ 94	+ 72	+ 38	- 24	-100	-182	-234	-210
July	+ 16	+ 30	+ 34	+ 50	+ 62	+ 76	+ 48	+ 34	+ 4	- 52	-106	-184	-232
August	+ 55	+ 59	+ 47	+ 39	+ 55	+ 69	+ 57	+ 45	+ 9	- 61	-159	-203	-203
September	+ 63	+ 63	+ 57	+ 49	+ 39	+ 37	+ 51	+ 59	+ 27	- 65	-135	-173	-161
October	+ 27	+ 25	+ 23	+ 23	+ 27	+ 29	+ 37	+ 55	+ 65	+ 31	- 57	-141	-171
November	- 8	- 4	- 4	+ 8	+ 8	+ 4	+ 6	+ 10	+ 14	0	- 32	- 60	- 58
December	+ 14	+ 16	+ 14	0	0	- 6	- 10	- 16	- 10	- 22	- 48	- 56	- 36
Year	+ 27	+ 29	+ 29	+ 33	+ 38	+ 41	+ 36	+ 31	+ 11	- 36	- 99	-147	-155
Winter	+ 5	+ 10	+ 6	+ 6	+ 5	+ 2	0	- 1	+ 1	- 8	- 32	- 50	- 50
Equinox	+ 36	+ 33	+ 35	+ 36	+ 35	+ 37	+ 47	+ 55	+ 35	- 29	-112	-179	-189
Summer	+ 41	+ 44	+ 47	+ 57	+ 73	+ 82	+ 62	+ 40	- 3	- 72	-153	-213	-225

## COMPONENTS OF MAGNETIC INTENSITY

## International Quiet Days

NORTH COMPONENT (Unit 0.1 $\gamma$ )

Universal Time. Hour commencing											Range	Month and Season, 1961
13	14	15	16	17	18	19	20	21	22	23	$\gamma$	
- 42	- 19	- 40	- 49	- 17	+ 29	+ 46	+ 22	+ 24	+ 20	+ 20	18.6	January
-107	- 61	- 40	- 38	- 36	+ 19	+ 54	+ 69	+ 57	+ 58	+ 56	25.4	February
-105	-100	- 71	- 19	+ 4	+ 32	+ 55	+ 47	+ 52	+ 41	+ 53	20.9	March
-209	-150	- 87	- 31	+ 56	+104	+107	+132	+113	+128	+136	43.2	April
-182	-150	- 93	+ 20	+ 88	+149	+161	+145	+129	+136	+129	35.7	May
-167	-101	+ 3	+ 53	+107	+139	+140	+130	+122	+118	+101	35.5	June
-202	-146	- 51	+ 45	+189	+231	+183	+208	+154	+137	+128	51.0	July
-204	-167	- 80	+ 8	+ 81	+138	+148	+146	+146	+144	+127	36.4	August
-164	-114	- 70	- 10	+ 47	+ 89	+108	+ 96	+104	+119	+104	32.4	September
-154	-104	- 64	- 15	+ 20	+ 63	+ 76	+ 74	+ 73	+ 84	+ 95	32.6	October
- 69	- 37	- 22	- 5	+ 12	+ 7	+ 25	+ 44	+ 62	+ 81	+ 61	20.1	November
- 83	- 36	- 10	+ 6	+ 9	+ 26	+ 32	+ 27	+ 42	+ 34	+ 18	20.5	December
-141	- 99	- 52	- 3	+ 47	+ 85	+ 95	+ 95	+ 90	+ 92	+ 86	31.0	Year
- 75	- 38	- 28	- 21	- 8	+ 20	+ 39	+ 41	+ 46	+ 48	+ 39	21.1	Winter
-158	-117	- 73	- 19	+ 32	+ 72	+ 87	+ 87	+ 85	+ 93	+ 97	32.3	Equinox
-189	-141	- 55	+ 31	+116	+164	+158	+157	+138	+134	+121	39.7	Summer

WEST COMPONENT (Unit 0.1 $\gamma$ )

											$\gamma$	
+118	+ 93	+ 61	+ 42	+ 45	+ 27	+ 1	- 39	- 62	- 50	- 29	18.7	January
+156	+134	+ 97	+ 62	+ 60	+ 48	+ 33	+ 3	- 17	- 49	- 38	27.9	February
+244	+222	+162	+106	+ 96	+ 97	+ 69	+ 35	- 18	- 59	- 83	40.3	March
+282	+299	+245	+166	+110	+ 68	+ 50	+ 26	- 6	- 13	- 21	57.8	April
+238	+254	+221	+200	+160	+123	+ 64	+ 7	+ 5	0	- 30	50.8	May
+300	+306	+257	+158	+ 80	+ 50	+ 31	+ 31	+ 29	+ 28	+ 30	64.4	June
+289	+343	+324	+251	+179	+ 89	- 6	+ 2	+ 17	+ 25	+ 7	63.0	July
+331	+294	+227	+162	+ 96	+ 44	+ 48	+ 61	+ 45	+ 36	+ 7	62.9	August
+221	+189	+133	+ 82	+ 67	+ 61	+ 70	+ 52	+ 33	+ 15	+ 7	45.3	September
+228	+218	+149	+ 93	+ 75	+ 62	+ 34	0	- 7	+ 3	- 17	45.4	October
+148	+112	+ 88	+ 69	+ 55	+ 37	+ 15	- 11	- 38	- 62	- 55	26.6	November
+127	+103	+ 68	+ 33	+ 18	+ 3	- 10	- 28	- 53	- 56	- 31	22.0	December
+223	+214	+169	+119	+ 87	+ 59	+ 33	+ 12	- 6	- 15	- 21	43.8	Year
+137	+111	+ 79	+ 51	+ 45	+ 29	+ 10	- 19	- 43	- 54	- 38	23.8	Winter
+244	+232	+172	+112	+ 87	+ 72	+ 56	+ 28	+ 1	- 13	- 29	47.2	Equinox
+289	+299	+257	+193	+129	+ 77	+ 34	+ 25	+ 24	+ 22	+ 3	60.3	Summer

VERTICAL COMPONENT (Unit 0.1 $\gamma$ )

											$\gamma$	
- 19	+ 5	+ 15	+ 17	+ 19	+ 23	+ 17	+ 13	+ 5	- 5	- 13	6.4	January
- 32	- 2	+ 6	+ 10	+ 12	+ 22	+ 14	+ 12	+ 8	+ 10	+ 4	8.6	February
-105	- 37	+ 23	+ 63	+ 47	+ 37	+ 43	+ 43	+ 43	+ 39	+ 31	22.8	March
-189	- 83	+ 9	+ 63	+101	+101	+ 85	+ 67	+ 55	+ 39	+ 33	36.2	April
-216	-132	- 30	+ 30	+ 78	+108	+108	+ 96	+ 66	+ 44	+ 42	36.2	May
-154	- 60	+ 38	+ 84	+110	+102	+ 72	+ 36	+ 18	+ 10	+ 14	34.4	June
-204	-106	- 20	+ 50	+102	+134	+130	+ 86	+ 34	+ 6	0	36.6	July
-145	- 61	+ 17	+ 55	+ 73	+ 69	+ 51	+ 35	+ 37	+ 33	+ 31	27.6	August
- 97	- 41	+ 13	+ 21	+ 19	+ 13	+ 23	+ 23	+ 31	+ 35	+ 37	23.6	September
-135	- 63	- 1	+ 37	+ 27	+ 33	+ 35	+ 35	+ 29	+ 19	+ 15	23.6	October
- 30	+ 10	+ 20	+ 32	+ 34	+ 24	+ 18	+ 10	+ 4	0	- 16	9.4	November
+ 6	+ 44	+ 44	+ 38	+ 28	+ 8	+ 4	0	+ 2	- 4	- 14	10.0	December
-110	- 44	+ 11	+ 42	+ 54	+ 56	+ 50	+ 38	+ 28	+ 19	+ 14	22.9	Year
- 19	+ 14	+ 21	+ 24	+ 23	+ 19	+ 13	+ 9	+ 5	0	- 10	8.6	Winter
-131	- 56	+ 11	+ 46	+ 49	+ 46	+ 47	+ 42	+ 39	+ 33	+ 29	26.5	Equinox
-180	- 90	+ 1	+ 55	+ 91	+103	+ 90	+ 63	+ 39	+ 23	+ 22	33.7	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE MAGNETIC ELEMENTS

Month and Season, 1961	International Disturbed Days												
	DECLINATION WEST (Unit 0'.01)												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	-397	-239	-183	-203	-107	-87	+33	+155	+101	+123	+211	+297	+461
February	-277	-375	-231	-17	+83	+129	+173	+97	+95	+133	+207	+447	+637
March	-397	-445	-567	-569	-347	-27	+87	-33	+101	+149	+275	+479	+635
April	-575	-307	-321	-223	-121	-265	-199	-369	-443	-253	-15	+439	+641
May	-229	-307	-361	-275	-199	+111	+165	-167	-255	-291	-89	+95	+319
June	-413	-329	-537	-311	-353	-357	-553	-547	-397	-197	-21	+275	+581
July	-215	-117	-217	-273	-227	-237	-277	-541	-753	-541	-123	+253	+483
August	-297	-349	-373	-151	-153	-187	-383	-395	-263	-179	-1	+239	+497
September	-17	-123	-153	-51	-145	-159	-71	-149	-137	+15	+209	+457	+629
October	-499	-267	-105	-113	-35	+183	+257	+141	-47	+43	+117	+403	+675
November	-168	-300	-186	-36	-12	+72	+82	+132	+46	+60	+202	+348	+500
December	-443	-369	-319	-137	+89	+281	+277	+201	+57	+89	+171	+357	+525
Year	-327	-294	-296	-197	-127	-45	-34	-123	-158	-71	+95	+341	+549
Winter	-321	-321	-230	-98	+13	+99	+141	+146	+75	+101	+198	+362	+531
Equinox	-372	-285	-287	-239	-162	-67	+19	-103	-131	-11	+147	+445	+645
Summer	-289	-275	-372	-253	-233	-167	-262	-413	-417	-302	-59	+215	+470
	INCLINATION (Unit 0'.01)												
January	-73	-59	-77	-95	-142	-186	-176	-143	-134	-78	-46	-10	-38
February	-95	-186	-103	-100	-92	-107	-133	-202	-156	-80	+17	+27	+41
March	-24	-49	-79	-164	-141	-187	-220	-146	-83	+46	+141	+142	+155
April	-101	-128	-191	-123	-196	-177	-95	-53	-5	+79	+210	+182	+132
May	-124	-130	-82	-77	-70	-40	-134	-20	+30	+78	+140	+126	+104
June	-158	-169	-125	-140	-190	-59	-55	+23	+111	+141	+136	+123	+233
July	-242	-244	-267	-247	-239	-220	-224	-119	+221	+595	+435	+154	+196
August	-254	-155	-133	-128	-122	-73	-30	+34	+118	+102	+123	+154	+162
September	-131	-147	-54	-67	-89	-61	-40	-45	-11	+52	+110	+90	+88
October	-182	-217	-122	-224	-220	-274	-204	-204	-62	+14	-47	+52	+175
November	-177	-129	-166	-150	-156	-159	-184	-174	-84	+39	+63	+97	+156
December	-118	-242	-251	-272	-294	-274	-263	-206	-123	-66	+12	+89	+118
Year	-140	-155	-137	-149	-163	-151	-147	-105	-15	+77	+108	+102	+127
Winter	-116	-154	-149	-154	-171	-181	-189	-181	-124	-46	+11	+51	+69
Equinox	-109	-135	-111	-145	-161	-175	-140	-112	-40	+48	+103	+117	+137
Summer	-195	-175	-152	-148	-155	-98	-111	-21	+120	+229	+209	+139	+174
	HORIZONTAL INTENSITY (Unit 0.1γ)												
January	+58	+32	+52	+84	+160	+230	+212	+164	+156	+70	+16	-40	+8
February	+80	+184	+66	+88	+94	+128	+168	+270	+196	+68	-88	-98	-104
March	+19	+55	+87	+199	+159	+221	+263	+163	+65	-133	-277	-267	-251
April	+115	+129	+233	+109	+211	+197	+83	+43	-31	-175	-377	-349	-263
May	+183	+167	+93	+99	+97	+31	+153	-19	-95	-175	-283	-267	-231
June	+194	+184	+112	+128	+204	+28	+40	-66	-210	-274	-276	-272	-422
July	+255	+243	+285	+273	+261	+231	+243	+105	-433	-1013	-779	-333	-393
August	+326	+134	+100	+106	+118	+68	+32	-50	-190	-192	-250	-302	-306
September	+172	+194	+64	+90	+124	+80	+42	+60	-6	-128	-236	-204	-202
October	+114	+114	-18	+178	+252	+340	+250	+270	+76	-44	+34	-118	-256
November	+224	+150	+188	+160	+176	+190	+232	+218	+98	-84	-130	-174	-238
December	+105	+263	+279	+309	+333	+307	+307	+243	+141	+65	-47	-155	-185
Year	+154	+154	+128	+152	+182	+171	+169	+117	-19	-168	-224	-215	-237
Winter	+117	+157	+146	+160	+191	+214	+230	+224	+148	+30	-62	-117	-130
Equinox	+105	+123	+91	+144	+187	+209	+159	+134	+26	-120	-214	-235	-243
Summer	+239	+182	+147	+151	+170	+89	+117	-7	-232	-413	-397	-293	-338

## DECLINATION, INCLINATION AND HORIZONTAL INTENSITY

## International Disturbed Days

## DECLINATION WEST (Unit 0'.01)

Universal Time. Hour commencing											Range	Month and Season, 1961
13	14	15	16	17	18	19	20	21	22	23		
+517	+499	+381	+201	+161	+189	-279	-325	-395	-557	-549	10.74	January
+493	+635	+619	+249	+ 55	- 51	-347	-371	-683	-807	-895	15.32	February
+759	+437	+341	+223	-145	- 79	- 59	-163	-351	-201	-115	13.28	March
+905	+879	+795	+539	+163	+109	-151	-121	-289	-383	-439	14.80	April
+569	+511	+415	+293	+179	+ 11	+ 59	- 9	-151	-191	-191	9.30	May
+663	+801	+667	+661	+357	- 47	+129	+ 73	- 43	- 39	- 63	13.54	June
+793	+831	+809	+493	+351	- 17	-221	- 1	- 65	-101	- 97	15.84	July
+685	+681	+681	+407	+147	+ 25	+ 57	-125	-177	-209	-169	10.80	August
+759	+679	+437	+343	+181	-185	-215	-381	-575	-863	-493	16.22	September
+711	+771	+681	+471	+309	+179	-761	-799	-943	-799	-573	17.14	October
+614	+712	+508	+208	- 32	- 94	-310	-720	-430	-636	-552	14.32	November
+553	+757	+609	+149	+165	-143	-181	-531	-743	-735	-685	15.00	December
+668	+683	+579	+353	+158	- 9	-190	-289	-404	-460	-402	13.86	Year
+544	+651	+529	+202	+ 87	- 25	-279	-487	-563	-684	-670	13.85	Winter
+783	+691	+563	+394	+127	+ 6	-297	-366	-539	-561	-405	15.36	Equinox
+677	+706	+643	+463	+259	- 7	+ 6	- 15	-109	-135	-130	12.37	Summer

## INCLINATION (Unit 0'.01)

+ 9	+ 51	+139	+253	+231	+236	+181	+ 92	+ 79	+ 9	- 30	4.39	January
+ 41	+ 23	+ 79	+116	+ 83	+ 86	+137	+288	+198	+107	+ 22	4.90	February
+156	+199	+167	+140	+153	+ 60	+ 4	- 53	- 80	- 83	- 53	4.19	March
+ 78	+106	+ 84	+ 99	+ 51	+ 52	+ 31	+ 27	- 20	- 25	- 25	4.06	April
+131	+142	+ 79	+ 33	- 10	- 61	- 9	+ 2	- 36	- 40	- 32	2.76	May
+202	+148	+120	+ 21	+ 16	- 92	-103	- 45	- 41	- 32	- 63	4.23	June
+ 41	- 38	+ 57	+131	- 16	+ 48	+ 92	+ 21	- 62	- 51	- 15	8.62	July
+162	+173	+110	+109	+ 37	+ 17	- 39	- 40	- 87	- 98	-141	4.27	August
+103	+123	+127	+ 93	+ 86	+ 31	- 18	+ 56	-168	- 75	- 57	2.95	September
+159	+109	+115	+183	+141	+258	+175	+204	+242	+ 2	- 77	5.32	October
+165	+183	+197	+128	+ 94	+ 88	+122	+ 81	+ 58	- 18	- 75	3.81	November
+189	+271	+290	+373	+238	+185	+122	+103	+ 43	+106	- 28	6.67	December
+120	+124	+130	+140	+ 92	+ 76	+ 58	+ 61	+ 11	- 17	- 48	4.68	Year
+101	+132	+176	+217	+161	+149	+141	+141	+ 95	+ 51	- 28	4.94	Winter
+124	+134	+123	+129	+108	+100	+ 48	+ 59	- 7	- 45	- 53	4.13	Equinox
+134	+106	+ 91	+ 73	+ 7	- 22	- 15	- 15	- 57	- 55	- 63	4.97	Summer

## HORIZONTAL INTENSITY (Unit 0.1γ)

											γ	
- 36	- 64	-158	-288	-230	-222	-134	- 56	- 58	+ 10	+ 40	51.8	January
- 60	- 20	- 78	- 94	- 28	- 24	- 82	-288	-198	-122	- 68	55.8	February
-221	-239	-175	-113	-105	- 3	+ 55	+125	+157	+135	+ 81	54.0	March
-157	-147	- 47	- 23	+ 91	+ 61	+ 67	+ 43	+103	+ 67	+ 25	61.0	April
-237	-195	- 65	+ 27	+105	+193	+ 97	+ 65	+103	+ 93	+ 67	47.6	May
-332	-204	-118	+ 60	+120	+318	+288	+172	+134	+ 88	+ 98	74.0	June
-101	+117	+ 73	+ 47	+297	+231	+115	+107	+139	+ 67	- 41	131.0	July
-272	-240	- 96	- 48	+ 80	+106	+164	+154	+186	+168	+202	63.2	August
-186	-176	-128	- 56	- 40	+ 60	+108	- 10	+298	+ 90	- 2	53.4	September
-176	- 32	- 40	- 90	- 2	-142	-130	-286	-340	- 34	+ 86	68.0	October
-222	-224	-212	-110	- 64	- 68	-110	- 64	- 70	+ 42	+ 94	47.0	November
-241	-317	-309	-371	-221	-153	- 93	- 89	- 53	-153	+ 27	70.4	December
-187	-145	-113	- 88	0	+ 30	+ 29	- 11	+ 33	+ 38	+ 51	64.8	Year
-140	-156	-189	-216	-136	-117	-105	-124	- 95	- 56	+ 23	56.3	Winter
-185	-149	- 97	- 71	- 14	- 6	+ 25	- 32	+ 55	+ 65	+ 47	59.1	Equinox
-235	-131	- 51	+ 21	+151	+212	+166	+125	+141	+104	+ 81	78.9	Summer

TABLE VII. - MEAN DIURNAL INEQUALITIES OF THE GEOGRAPHICAL  
International Disturbed Days

Month and Season, 1961	NORTH COMPONENT (Unit 0.1 $\gamma$ )												
	Universal Time. Hour commencing												
	0	1	2	3	4	5	6	7	8	9	10	11	12
January	+ 94	+ 54	+ 68	+102	+168	+235	+206	+147	+144	+ 57	- 4	- 67	- 35
February	+105	+216	+ 87	+ 88	+ 85	+114	+149	+257	+184	+ 55	-106	-138	-162
March	+ 56	+ 96	+139	+249	+189	+220	+251	+164	+ 55	-145	-299	-308	-307
April	+167	+156	+260	+128	+219	+219	+100	+ 77	+ 11	-149	-370	-385	-319
May	+202	+193	+125	+123	+114	+ 20	+135	- 3	- 70	-145	-270	-272	-257
June	+230	+212	+161	+155	+234	+ 61	+ 91	- 14	-170	-251	-270	-294	-470
July	+271	+250	+301	+294	+278	+250	+265	+154	-356	-947	-756	-352	-432
August	+349	+165	+133	+119	+131	+ 84	+ 67	- 12	-163	-172	-246	-320	-348
September	+171	+203	+ 77	+ 93	+136	+ 94	+ 48	+ 73	+ 7	-127	-252	-244	-258
October	+159	+137	- 8	+186	+251	+318	+222	+253	+ 79	- 47	+ 23	-154	-315
November	+236	+176	+203	+161	+174	+180	+221	+202	+ 92	- 88	-147	-204	-281
December	+145	+294	+305	+317	+320	+276	+276	+221	+134	+ 56	- 62	-186	-231
Year	+182	+179	+154	+168	+192	+173	+169	+127	- 4	-159	-230	-244	-285
Winter	+145	+185	+166	+167	+187	+201	+213	+207	+139	+ 20	- 80	-149	-177
Equinox	+138	+148	+117	+164	+199	+213	+155	+142	+ 38	-117	-225	-273	-300
Summer	+263	+205	+180	+173	+189	+104	+139	+ 31	-190	-379	-385	-309	-377
	WEST COMPONENT (Unit 0.1 $\gamma$ )												
January	-203	-123	- 89	- 95	- 30	- 7	+ 54	+111	+ 81	+ 78	+116	+153	+249
February	-135	-170	-113	+ 6	+ 61	+ 91	+122	+ 99	+ 85	+ 83	+ 96	+223	+324
March	-210	-230	-290	-271	-159	+ 24	+ 92	+ 10	+ 65	+ 57	+100	+211	+298
April	-289	-143	-132	-101	- 29	-108	- 93	-191	-243	-166	- 73	+176	+299
May	- 92	-136	-178	-131	- 90	+ 65	+115	- 93	-153	-186	- 96	+ 5	+132
June	-188	-145	-269	-145	-155	-187	-290	-305	-249	-153	- 59	+101	+239
July	- 72	- 21	- 68	-100	- 77	- 88	-107	-273	-479	-465	-200	+ 79	+192
August	-103	-164	-183	- 63	- 62	- 89	-200	-221	-174	-129	- 44	+ 76	+214
September	+ 20	- 33	- 71	- 12	- 57	- 72	- 31	- 70	- 75	- 14	+ 72	+210	+303
October	-248	-124	- 59	- 30	+ 25	+157	+181	+122	- 12	+ 16	+ 69	+196	+319
November	- 52	-135	- 68	+ 8	+ 24	+ 71	+ 84	+108	+ 42	+ 18	+ 86	+157	+228
December	-220	-153	-123	- 20	+105	+204	+202	+150	+ 55	+ 59	+ 84	+165	+250
Year	-149	-131	-137	- 79	- 37	+ 5	+ 11	- 46	- 88	- 67	+ 13	+146	+254
Winter	-153	-145	- 98	- 25	+ 40	+ 90	+115	+117	+ 66	+ 59	+ 95	+175	+263
Equinox	-182	-133	-138	-103	- 55	0	+ 37	- 32	- 66	- 27	+ 42	+198	+305
Summer	-114	-117	-175	-110	- 96	- 75	-121	-223	-264	-233	-100	+ 65	+194
	VERTICAL COMPONENT (Unit 0.1 $\gamma$ )												
January	-120	-130	-146	-136	-122	-114	-122	-116	-104	-108	-124	-126	-114
February	-144	-222	-204	-144	-104	- 76	- 74	- 76	- 88	-122	-144	-134	-100
March	- 39	- 43	- 75	-109	-123	-139	-155	-129	-137	-147	-151	-125	- 41
April	- 84	-148	-124	-176	-194	-158	-138	- 86	- 88	-132	-142	-174	-150
May	- 9	- 65	- 71	- 37	- 19	- 69	-113	-115	-117	-135	-169	-181	-173
June	-100	-162	-176	-190	-190	-140	- 98	- 74	-102	-144	-166	-204	-166
July	-252	-288	-268	-228	-226	-232	-218	-172	-236	-276	-292	-236	-228
August	-128	-228	-232	-200	-152	- 98	- 32	+ 4	- 30	- 90	-150	-164	-146
September	- 57	- 61	- 41	- 23	- 21	- 27	- 41	- 19	- 53	-117	-165	-161	-161
October	-368	-492	-468	-368	-182	-164	-130	- 84	- 40	- 54	- 86	- 92	+ 16
November	- 98	-100	-142	-152	-136	-112	-104	-102	- 64	- 58	- 82	- 66	- 10
December	-168	-234	-226	-232	-250	-242	-204	-154	-102	- 80	- 66	- 48	- 18
Year	-131	-181	-181	-166	-143	-131	-119	- 94	- 97	-122	-145	-143	-108
Winter	-133	-171	-179	-166	-153	-136	-126	-112	- 89	- 92	-104	- 93	- 61
Equinox	-137	-186	-177	-169	-130	-122	-116	- 79	- 79	-113	-136	-138	- 84
Summer	-122	-186	-187	-164	-147	-135	-115	- 89	-121	-161	-194	-196	-178

## COMPONENTS OF MAGNETIC INTENSITY

## International Disturbed Days

NORTH COMPONENT (Unit 0.1 $\gamma$ )

Universal Time. Hour commencing											Range	Month and Season, 1961
13	14	15	16	17	18	19	20	21	22	23	$\gamma$	
-84	-110	-191	-302	-242	-236	-106	-25	-20	+62	+91	53.7	January
-105	-79	-135	-116	-33	-19	-48	-249	-131	-45	+17	50.6	February
-289	-276	-204	-132	-90	+4	+60	+138	+187	+152	+91	55.9	March
-239	-227	-121	-73	+74	+50	+80	+54	+129	+102	+66	64.5	April
-287	-240	-103	-1	+87	+189	+90	+65	+116	+109	+84	48.9	May
-389	-276	-179	-3	+85	+318	+272	+163	+136	+90	+102	78.8	June
-174	+37	-4	0	+260	+229	+134	+105	+143	+75	-31	124.8	July
-332	-300	-158	-85	+65	+102	+156	+163	+200	+185	+215	69.7	August
-254	-237	-167	-87	-56	+76	+127	+26	+347	+169	+44	60.5	September
-240	-104	-103	-133	-31	-157	-57	-207	-247	+41	+138	63.3	October
-276	-287	-256	-128	-60	-58	-79	+4	-29	+101	+144	52.3	November
-289	-383	-361	-379	-233	-137	-75	-38	+17	-82	+91	70.3	December
-247	-207	-165	-120	-15	+30	+46	+17	+71	+80	+88	66.1	Year
-189	-215	-236	-231	-142	-113	-77	-77	-41	+9	+86	56.7	Winter
-255	-211	-149	-106	-26	-7	+53	+3	+104	+116	+85	61.1	Equinox
-295	-195	-111	-22	+124	+209	+163	+124	+149	+115	+93	80.5	Summer

WEST COMPONENT (Unit 0.1 $\gamma$ )

											$\gamma$	
+271	+257	+177	+58	+47	+63	-173	-184	-222	-297	-288	56.8	January
+254	+338	+319	+118	+25	-32	-200	-249	-401	-454	-492	83.0	February
+370	+194	+153	+100	-96	-43	-22	-66	-162	-85	-48	66.0	March
+459	+447	+419	+286	+103	+69	-70	-58	-138	-194	-231	74.8	April
+265	+241	+212	+162	+114	+39	+48	+6	-63	-87	-91	45.1	May
+299	+395	+338	+365	+212	+29	+119	+69	0	-6	-17	70.0	June
+409	+466	+447	+273	+240	+31	-99	+18	-11	-43	-59	94.5	July
+321	+324	+349	+210	+93	+32	+59	-41	-63	-83	-56	57.0	August
+376	+334	+213	+175	+90	-89	-97	-206	-258	-448	-265	82.4	September
+352	+409	+359	+237	+166	+72	-431	-478	-565	-435	-293	97.4	October
+292	+344	+236	+93	-28	-62	-185	-398	-243	-334	-280	74.2	November
+256	+352	+274	+16	+51	-103	-113	-301	-408	-421	-363	77.3	December
+327	+342	+291	+174	+85	+1	-97	-157	-211	-241	-207	73.2	Year
+268	+323	+251	+71	+24	-33	-168	-283	-319	-377	-356	72.8	Winter
+389	+346	+286	+199	+66	+2	-155	-202	-281	-291	-209	80.1	Equinox
+323	+357	+337	+253	+165	+33	+32	+13	-34	-55	-56	66.7	Summer

VERTICAL COMPONENT (Unit 0.1 $\gamma$ )

											$\gamma$	
-52	+30	+116	+214	+272	+306	+320	+192	+142	+56	-12	46.6	January
+2	+34	+94	+186	+224	+244	+286	+334	+230	+90	-82	55.6	February
+29	+139	+177	+225	+291	+201	+141	+105	+85	+25	+5	44.6	March
-92	+28	+182	+292	+388	+324	+262	+194	+170	+68	-30	58.2	April
-93	+41	+123	+179	+209	+237	+193	+159	+113	+75	+43	41.8	May
-66	+44	+146	+214	+334	+418	+308	+242	+168	+94	+8	62.2	June
-92	+138	+368	+564	+632	+702	+588	+320	+106	-22	-148	99.4	July
-68	+46	+160	+268	+316	+304	+246	+218	+128	+50	-22	54.8	August
-73	+21	+145	+193	+207	+247	+189	+173	+105	-51	-203	45.0	September
+144	+304	+308	+428	+486	+570	+308	+46	+54	-72	-68	10.62	October
+60	+118	+196	+190	+180	+148	+170	+134	+38	+34	-42	34.8	November
+100	+208	+294	+438	+318	+290	+208	+152	+28	+14	-34	68.8	December
-17	+96	+192	+283	+321	+333	+268	+189	+114	+30	-49	59.8	Year
+27	+97	+175	+257	+249	+247	+246	+203	+109	+49	-43	51.5	Winter
+2	+123	+203	+285	+343	+335	+225	+129	+103	-7	-74	63.5	Equinox
-80	+67	+199	+306	+373	+415	+334	+235	+129	+49	-30	64.5	Summer

TABLE VIII. - NON-CYCLIC CHANGE ( $24^h$  minus  $0^h$ )

Month 1961	All Days			Quiet Days			Disturbed Days		
	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity	Declina- tion West	Hori- zontal Inten- sity	Vertical Inten- sity
	'	Y	Y	'	Y	Y	'	Y	Y
January	-0.02	+0.9	-0.6	+0.10	+3.8	-1.8	-0.22	- 6.0	+ 3.2
February	-0.05	-0.2	+0.1	+0.04	+3.4	-1.2	-4.26	-18.4	+ 0.4
March	+0.03	+1.1	-0.3	+0.16	+4.2	-0.4	+2.78	+ 7.2	+ 1.4
April	-0.10	-0.5	+0.2	+0.26	+7.6	+0.6	+0.64	- 5.0	+ 1.0
May	-0.04	+0.2	-0.1	-0.40	+7.2	-2.6	+0.28	-12.0	+ 1.4
June	+0.09	0.0	+0.1	-0.02	+8.6	-1.6	+1.98	- 7.4	+ 1.0
July	-0.02	0.0	+0.3	+0.10	+8.4	-2.2	+1.00	-33.2	+ 5.2
August	+0.01	+0.4	-0.6	+0.20	+4.6	-1.8	+1.28	-13.0	+ 2.0
September	-0.44	-2.5	-2.5	-0.10	+4.2	-2.4	-3.90	-22.4	-20.2
October	+0.35	-1.5	+3.4	+0.04	+2.2	-0.8	+2.42	- 1.4	+26.4
November	+0.02	+0.7	-0.3	-0.10	+3.4	-1.0	-1.18	- 8.8	- 1.2
December	-0.06	-0.2	+0.1	+0.02	+1.8	-2.0	-0.30	- 5.0	+ 2.8
Year	..	..	..	+0.02	+5.0	-1.4	+0.04	-10.4	+ 2.0

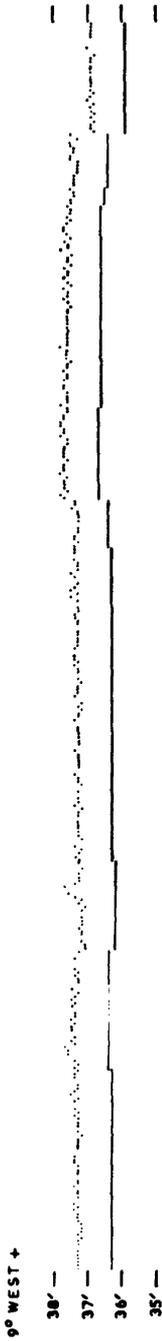
TABLE IX. - MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS

Month 1961	Declination	Inclination	Horizontal	North	West	Vertical	Total
	West		Intensity	Intensity	Intensity	Intensity	Intensity
	o	'	C.g.s.	C.g.s.	C.g.s.	C.g.s.	C.g.s.
January	9 55.8	66 42.8	.18727	.18446	.03229	.43513	.47372
February	9 54.9	66 42.8	.18727	.18447	.03225	.43512	.47371
March	9 55.0	66 42.1	.18735	.18455	.03226	.43506	.47368
April	9 54.0	66 41.7	.18741	.18462	.03222	.43505	.47370
May	9 53.6	66 41.0	.18751	.18472	.03222	.43504	.47373
June	9 53.2	66 40.9	.18753	.18475	.03220	.43507	.47377
July	9 52.3	66 41.8	.18743	.18465	.03213	.43515	.47380
August	9 52.7	66 41.2	.18752	.18474	.03217	.43513	.47382
September	9 52.0	66 41.1	.18752	.18475	.03213	.43511	.47380
October	9 51.2	66 41.9	.18742	.18465	.03207	.43516	.47380
November	9 50.7	66 41.5	.18751	.18474	.03206	.43520	.47388
December	9 50.3	66 41.2	.18755	.18479	.03205	.43519	.47389
Year	9 53.0	66 41.7	.18744	.18466	.03217	.43512	.47377

HARTLAND 1961

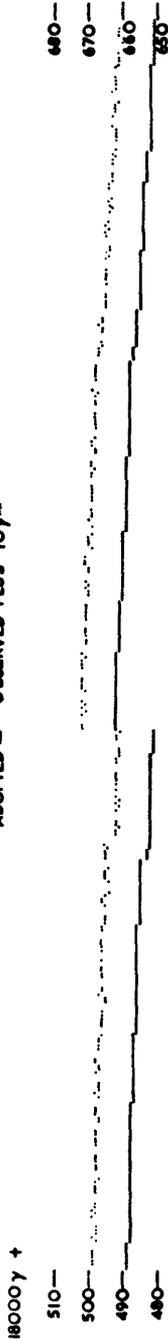
Declination Base line Values

ADOPTED --- OBSERVED PLUS 1' ---



Horizontal Intensity Base line Values

ADOPTED --- OBSERVED PLUS 10γ ---



Vertical Intensity Base line Values

ADOPTED --- OBSERVED PLUS 10γ ---



JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |

TABLE X(A). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS  
DETERMINED AT THE ROYAL OBSERVATORY, GREENWICH,  
BETWEEN THE YEARS 1818 AND 1925

Year	Declination West	Horizontal Intensity	Vertical Intensity	Inclination	Year	Declination West	Horizontal Intensity	Vertical Intensity	Inclination
	° /	c.g.s.	c.g.s.	° /		° /	c.g.s.	c.g.s.	° /
1818	24 19 †	..	..	..	1882	18 22.3	0.1806	0.4375	67 34.2
1819	24 21	..	..	..	1883	18 15.0	0.1812	0.4381	67 31.7
1820	24 21	..	..	..	1884	18 7.6	0.1814	0.4379	67 29.7
1841	23 16.2	..	..	..	1885	18 1.7	0.1817	0.4380	67 28.0
1842	23 14.6	..	..	..	1886	17 54.5	0.1818	0.4377	67 27.1
1843	23 11.7	..	..	69 0.6	1887	17 49.1	0.1819	0.4380	67 26.6
1844	23 15.3	..	..	69 0.3	1888	17 40.4	0.1822	0.4383	67 25.6
1845	22 56.7	..	..	68 57.5	1889	17 34.9	0.1823	0.4380	67 24.3
1846	22 49.6	0.1731	..	68 58.1	1890	17 28.6	0.1825	0.4381	67 23.0
1847	22 51.3	0.1736	..	68 59.0	1891	17 23.4	0.1827	0.4380	67 21.5
1848	22 51.8	0.1731	..	68 54.7	1892	17 17.4	0.1829	0.4379	67 20.0
1849	22 37.8	0.1733	..	68 51.3	1893	17 11.4	0.1831	0.4373	67 17.9
1850	22 23.5	0.1738	..	68 46.9	1894	17 4.6	0.1831	0.4374	67 17.4
1851	22 18.3	0.1744	..	68 40.4	1895	16 57.4	0.1834	0.4378	67 16.1
1852	22 17.9	0.1745	..	68 42.7	1896	16 51.7	0.1835	0.4382	67 15.1
1853	22 10.1	0.1748	..	68 44.6	1897	16 45.8	0.1838	0.4377	67 13.5
1854	22 0.8	0.1749	..	68 47.7	1898	16 39.2	0.1840	0.4377	67 12.1
1855	21 48.4	0.1756	..	68 44.6	1899	16 34.2	0.1843	0.4380	67 10.5
1856	21 43.5	0.1759	..	68 43.5	1900	16 29.0	0.1846	0.4380	67 8.8
1857	21 35.4	0.1769	..	68 31.1	1901	16 26.0	0.1850	0.4381	67 6.4
1858	21 30.3	0.1762	..	68 28.3	1902	16 22.8	0.1852	0.4377	67 3.8
1859	21 23.5	0.1761	..	68 26.9	1903	16 19.1	0.1852	0.4368	67 1.2
1860	21 14.3	..	..	68 30.1	1904	16 15.0	0.1854	0.4359	66 57.6
1861	21 5.5	0.1773	..	68 24.6	1905	16 9.9	0.1854	0.4355	66 56.3
					1906	16 3.6	0.1854	0.4353	66 55.6
1861		0.1759	..	68 15.8	1907	15 59.8	0.1855	0.4357	66 56.2
1862	20 52.6	0.1763	0.4403	68 9.6	1908	15 53.5	0.1854	0.4356	66 56.3
1863	20 45.9	0.1764	0.4396	68 7.0	1909	15 47.6	0.1854	0.4348	66 54.1
1864	..	0.1767	0.4393	68 4.1	1910	15 41.2	0.1855	0.4345	66 52.8
1865	20 33.9	0.1767	0.4388	68 2.7	1911	15 33.0	0.1855	0.4342	66 52.1
1866	20 28.0	0.1773	0.4397	68 1.3	1912	15 24.3	0.1855	0.4340	66 51.8
1867	20 20.5	0.1777	0.4392	67 57.2	1913	15 15.2	0.1853	0.4333	66 50.5
1868	20 13.1	0.1779	0.4395	67 56.5					
1869	20 4.1	0.1782	0.4396	67 54.8					
1870	19 53.0	0.1784	0.4392	67 52.5	1914	15 6.3	0.1853	0.4333	66 50.8
1871	19 41.9	0.1786	0.4389	67 50.3	1915	14 56.5	0.1851	0.4331	66 51.6
1872	19 36.8	0.1789	0.4383	67 47.8	1916	14 46.9	0.1848	0.4326	66 52.2
1873	19 33.4	0.1793	0.4386	67 45.8	1917	14 37.1	0.1848	0.4330†	66 53.0
1874	19 28.9	0.1797	0.4387	67 43.6	1918	14 27.8	0.1846	0.4325	66 52.8
1875	19 21.2	0.1797	0.4383	67 42.4	1919	14 18.2	0.1845	0.4324	66 53.3
1876	19 8.3	0.1799	0.4383	67 41.0	1920	14 8.6	0.1845	0.4325	66 53.6
1877	18 57.2	0.1800	0.4381	67 39.7	1921	13 57.6	0.1845	0.4322	66 53.0
1878	18 49.3	0.1802	0.4382	67 38.2	1922	13 46.7	0.1844	0.4318	66 52.3
1879	18 40.5	0.1805	0.4382	67 37.0	1923	13 35.1	0.1843	0.4314	66 51.9
1880	18 32.6	0.1805	0.4380	67 35.7	1924	13 22.8	0.1843	0.4311	66 51.6
1881	18 27.1	0.1807	0.4379	67 34.7	1925	13 9.9	0.1841	0.4308	66 51.4

† Mean of seven months, June to December.

†† Mean of ten months, March to December.

In 1818, 1819 and 1820 numerous observations of Declination were made with a Dollond needle.

In 1861 new Unifilar Apparatus for absolute Horizontal Intensity and the Airy Dip-Circle were introduced, both sets of apparatus being used in that year. In 1864 the excavation of the Magnetic Basement caused a suspension of Declination Observations. From 1914 the Inclination was determined with an Inductor.

TABLE X(B). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS  
DETERMINED AT THE ABINGER MAGNETIC STATION,  
FOR THE YEARS 1925-1956

Year	Declination		Horizontal	Vertical	Inclination	Year	Declination		Horizontal	Vertical	Inclination		
	West		Intensity	Intensity			West		Intensity	Intensity			
	°	'	c.g.s.	c.g.s.	°	'	°	'	c.g.s.	c.g.s.	°	'	
1925	13	22.7	0.18597	0.42946	66	35.1	1941	10	33.8	0.18539	0.43128	66	44.3
1926	13	10.4	0.18581	0.42947	66	36.3	1942	10	24.8	0.18554	0.43146	66	43.9
1927	12	58.4	0.18575	0.42932	66	36.2	1943	10	16.2	0.18556	0.43172	66	44.5
1928	12	47.0	0.18564	0.42941	66	37.3	1944	10	7.8	0.18566	0.43189	66	44.3
1929	12	35.8	0.18555	0.42918	66	37.2	1945	9	59.5	0.18573	0.43207	66	44.3
1930	12	24.6	0.18542	0.42924	66	38.2	1946	9	51.1	0.18569	0.43235	66	45.4
1931	12	13.7	0.18543	0.42923	66	38.1	1947	9	43.1	0.18577	0.43246	66	45.2
1932	12	2.6	0.18536	0.42940	66	39.1	1948	9	35.4	0.18593	0.43255	66	44.4
1933	11	51.7	0.18532	0.42942	66	39.4	1949	9	27.5	0.18607	0.43273	66	44.0
1934	11	41.1	0.18533	0.42955	66	39.7	1950	9	19.7	0.18628	0.43288	66	43.0
1935	11	30.3	0.18527	0.42981	66	40.9	1951	9	12.2	0.18648	0.43305	66	42.1
1936	11	20.0	0.18524	0.43007	66	41.8	1952	9	4.7	0.18670	0.43316	66	41.0
1937	11	10.4	0.18522	0.43031	66	42.7	1953*	8	57.5	0.18695	0.43321	66	39.5
1938*	11	1.4	0.18522	0.43050	66	43.2	1954	8	50.9	0.18720	0.43332	66	38.1
1939	10	51.9	0.18528	0.43074	66	43.5	1955*	8	43.6	0.18738	0.43348	66	37.3
1940	10	43.0	0.18533	0.43099	66	43.9	1956	8	36.8	0.18750	0.43376	66	37.4

\* Discontinuities of  $-1.7\gamma$  in H and  $-3.9\gamma$  in Z were introduced in 1938.  
" "  $-0.6\gamma$  " H "  $-1.3\gamma$  " Z " " " " 1953.  
" "  $-0.4\gamma$  " H "  $-1.2\gamma$  " Z " " " " 1955.

TABLE X(C). - MEAN ANNUAL VALUES OF MAGNETIC ELEMENTS  
DETERMINED AT THE HARTLAND MAGNETIC STATION,  
FOR THE YEARS 1957-1967

Year	Declination		Inclination	Horizontal	North	West	Vertical	Total
	West							
	°	'	°	'	c.g.s.	c.g.s.	c.g.s.	c.g.s.
1957†	10	17.2	66	47.8	.18627	.18328	.03327	.43451
1958	10	11.0	66	46.3	.18655	.18361	.03298	.43465
1959	10	5.0	66	45.1	.18681	.18392	.03271	.43484
1960	9	58.8	66	43.9	.18707	.18424	.03242	.43504
1961	9	53.0	66	41.7	.18744	.18466	.03217	.43512
1962	9	46.9	66	39.5	.18779	.18506	.03191	.43517
1963	9	40.6	66	37.9	.18807	.18540	.03161	.43528
1964	9	35.2	66	35.9	.18840	.18577	.03137	.43535
1965	9	30.1	66	33.9	.18872	.18613	.03115	.43540
1966	9	25.1	66	32.7	.18897	.18642	.03092	.43554
1967	9	20.3	66	31.6	.18923	.18672	.03070	.43573

† Comparisons of the mean hourly values obtained at Abinger and Hartland during the first quarter of 1957 gave the following mean differences for Hartland minus Abinger:-

D (west)	H	Z	I
°	'	c.g.s.	c.g.s.
1	46.6	-.00146	+.00056
			°
			11.4

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