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RECORD OF OBSERVATIONS AT  
MEANOOK MAGNETIC OBSERVATORY  
1946

H. E. Cook, A. B. Cook and R. G. Madill

*Price 50 cents*



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# MEANOOK MAGNETIC OBSERVATORY

Geographic Latitude  $54^{\circ} 37'N$   
Geographic Longitude  $113^{\circ} 20' W$

Geomagnetic Latitude  $61.8^{\circ}N$   
Geomagnetic Longitude  $301.0^{\circ}E$

*Officer-in-Charge:* H. E. Cook

*Assistant:* Anne B. Cook

1946

## Introduction

Meanook Magnetic Observatory has been in continuous operation since July 1916 with H. E. Cook as resident Officer-in-Charge. The observatory is a section of the Division of Geomagnetism, Dominion Observatory, Ottawa, and is one of a world network supplying disturbance data for composite K-indices.

The activity of the magnetic field at Meanook during 1946 was greater than in 1945 and in a general way similar to that registered in 1938. An interesting macropulsation in declination occurred on May 18, 1946, from 0735 to 1335 h. G.M.T. forming a leisurely series of serrations of an average arc of  $37'$ .

The year was noted for excessive humidity in the variometer basements during the summer months resulting in some loss of definition in magnetograms. Drive-clocks became erratic and a breakdown of insulation in electric power cables to the observatory caused a loss of recordings for an interval in October. Corrective measures were taken, order restored, and serious thoughts were given to the advisability of moving the variometers from below to above the surface where humidity and water seepage could be eliminated or subdued.

During the past five years, 1941-1946, the average annual changes in the elements were,  $+4.4 \gamma$  in H;  $-5.7'$  in D;  $-29.2 \gamma$  in Z;  $+13.0 \gamma$  in X;  $-17.2 \gamma$  in Y;  $-0.6'$  in I; and  $-27.8 \gamma$  in F.

## Instruments

The same instrument continued in use for horizontal intensity and declination, namely, Elliott magnetometer No. 98 while earth inductor MS No. 1 was replaced by earth inductor MS No. 2 for inclination.

The corrections adopted for use in reducing observations to International Magnetic Standard are as follows:

- for D, I.M.S. = Elliott 98 + 0.20'
- for H, I.M.S. = Elliott 98 - 0.00121H
- for I, I.M.S. = M.S. 2 + 0.47'

Variometers in operation were: a la Cour set of normal speed and sensitivity; a la Cour set of normal speed and low sensitivity; and a Kew-type set of two variometers, D and H.

Scale values for the la Cour standard set were, D =  $0.967' /mm$ ; H =  $7.79 \gamma /mm$ ; and Z =  $10.79 \gamma /mm$ . For the low sensitivity set the values were, D =  $2.3' /mm$ ; H =  $22.2 \gamma /mm$ ; and Z =  $16.2 \gamma /mm$ . Scale values for the Kew-type set were, D =  $1.30' /mm$ ; and H =  $9.22 \gamma /mm$ .

The root mean square values of the observed minus adopted photographic base-line values were for D,  $\pm 0.5'$ ; for H,  $\pm 6\gamma$ ; and for Z,  $\pm 20 \gamma$ . In this connection it is of interest to note that in the computation of Z from H and I results, an error of  $1 \gamma$  in H produces an error of  $5 \gamma$ , and an error of  $0.1'$  in I produces an error of  $8 \gamma$  in the value of Z.

## Magnetic Reductions

The mean hourly, daily, and monthly values of horizontal intensity, declination, and vertical intensity together with daily extreme and range values of these elements and their diurnal inequalities are given in Tables 1 to 57.

The monthly and yearly mean values of H, D, Z, X, Y, and F are based on mean hourly values for H, D, and Z. Values of X, Y, I, and F are computed from H, D, and Z. The results of H, D, and I absolute observations made during the year, not corrected for daily variation, differ from the means of all days by  $+2 \gamma$  in H;  $+0.5'$  in I; and  $+0.2'$  in D.

A list of mean annual values from 1917 to 1946, inclusive, completes this part of the 1946 record.

K-indices and character figures have been supplied regularly to the Association of Terrestrial Magnetism and Electricity of the International Union of Geodesy and Geophysics for inclusion in their "Geomagnetic Indices C and K" bulletins.

## Mean Values for Months and Year

Month	D		H	Z	X	Y		I	F
	East					East	North		
1946	°	'	γ	γ	γ	γ	°	'	γ
January.....	25	13.4	12739	59091	11524	5429	77	50.1	60449
February.....		10.8	719	091	510	11		51.2	444
March.....		12.0	710	113	500	12		51.9	464
April.....		09.3	709	104	504	02		51.9	455
May.....		10.0	749	107	539	22		49.7	466
June.....		08.5	784	119	573	32		47.9	485
July.....		10.5	751	019	540	24		48.5	381
August.....		11.6	750	58996	537	27		48.3	358
September....		12.2	708	984	498	11		50.5	337
October.....		09.6	738	981	527	14		48.8	341
November....		08.6	750	985	542	17		48.2	347
December.....		07.1	762	59007	555	17		47.8	371
Year.....	25	10.3	12739	59050	11529	5418	77	49.6	60408

## Mean Annual Values, Meanook

Year	D		H	Z	X	Y		I	F
	East					East	North		
	°	'	γ	γ	γ	γ	°	'	γ
1917	27	46.1							
1918		44.3	12938	60393	11450	6022	77	54.5	61763
1919		41.1	944	400	463	14		54.2	770
1920		38.6	923	246	445	5996		53.6	617
1921		33.3	909	190	444	71		53.7	559
1922		28.5	904	133	449	53		53.3	502
1923		23.3	882	031	439	25		53.2	398
1924		17.7	866	59943	434	5899		53.2	308
1925		10.7	852	934	433	70		53.8	296
1926		04.2	832	844	427	40		53.8	205
1927	26	56.2	815	756	425	06		53.7	115
1928		48.5	794	737	419	5770		54.6	092
1929		42.9	781	721	417	46		55.1	062
1930		39.2	755	675	400	22		56.1	022
1931		33.2	758	587	412	03		54.9	60937
1932		27.2	738	466	405	5674		54.6	815
1933		21.9	736	413	412	56		54.0	761
1934		15.3	736	367	422	34		53.5	718
1935		08.2	732	367	430	08		53.7	716
1936		03.4	728	291	435	5591		53.0	642
1937	25	59.6	729	266	442	79		52.7	618
1938		54.8	726	252	446	62		52.7	603
1939		51.6	710	225	438	44		53.2	573
1940		45.0	719	210	456	26		52.6	561
1941		38.7	717	196	464	04		52.6	547
1942		33.6	728	188	483	5492		51.8	541
1943		29.4	724	170	486	76		51.8	523
1944		23.2	740	159	509	62		50.8	515
1945		16.8	740	061	520	41		49.6	420
1946		10.3	739	050	529	18		49.6	408

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 1 Meanook

H = 12,000  $\gamma$  +

January 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	759	758	768	768	762	762	765	758	772	737	684	645	694	714	735	741	743	747	718	735	747	752	751	751	740	
2	741	753	754	758	752	752	752	746	744	742	730	696	718	729	737	753	744	730	741	745	747	747	749	750	742	
3 D	751	751	750	747	745	745	741	743	622	564	536	631	307	769	689	329	351	642	654	731	751	763	757	753	659	
4 D	926	911	946	1012	985	950	876	798	622	579	646	685	552	595	669	669	652	678	705	739	761	739	769	759	759	
5	749	742	745	743	737	742	732	731	716	696	731	728	704	735	742	743	738	735	735	728	728	731	735	742	733	
6	731	743	745	745	741	740	739	736	736	741	728	742	735	731	730	751	731	728	738	738	730	742	743	750	738	
7	746	748	752	751	750	746	746	746	745	743	730	711	718	740	746	747	750	746	723	723	736	741	742	739	740	
8	739	745	743	745	743	743	744	745	744	743	743	743	745	745	745	745	743	736	733	735	737	743	745	744	742	
9 Q	743	743	746	748	745	746	745	747	742	741	741	747	749	747	749	747	742	740	727	725	727	725	738	742	741	
10	752	750	752	756	757	752	756	756	752	751	751	754	759	764	764	758	748	748	747	743	739	742	747	747	752	
11 D	744	756	749	734	760	658	669	751	715	629	540	660	738	756	767	751	751	743	738	738	732	727	743	754	721	
12	747	747	747	747	745	737	751	751	744	697	657	720	743	755	763	759	758	752	734	735	731	731	741	749	739	
13 Q	771	765	746	749	749	747	738	745	743	738	736	732	735	747	752	754	747	741	727	725	725	732	736	743	743	
14 Q	748	754	753	752	747	748	752	752	750	740	751	755	756	757	757	759	759	753	747	742	741	744	752	757	751	
15	751	756	758	755	751	746	749	743	737	758	756	755	755	757	759	764	764	751	746	745	743	745	745	745	751	
16	751	751	755	769	770	763	750	746	743	752	752	756	753	752	748	766	759	745	737	735	737	739	746	749	751	
17	745	742	742	747	762	750	738	632	505	694	755	763	757	759	761	763	758	745	730	745	734	739	741	743	731	
18	751	750	754	751	750	749	750	749	744	676	727	725	719	741	731	754	761	748	728	723	716	715	734	749	737	
19	778	797	789	775	759	751	746	752	742	744	746	749	748	750	754	756	751	748	744	745	744	744	753	754	755	
20 Q	755	755	755	762	762	762	758	752	750	748	750	750	750	750	751	751	746	743	742	744	744	744	746	750	751	
21 Q	750	754	757	757	752	752	751	754	750	749	754	754	754	751	749	751	747	741	736	736	750	750	746	751	750	
22	760	767	757	774	851	903	847	824	760	758	742	704	698	753	762	758	749	738	732	733	741	742	744	746	764	
23	742	750	746	740	743	743	757	757	719	672	641	696	766	758	749	751	746	738	730	732	730	730	750	738	734	
24 D	751	758	757	757	761	758	718	637	625	586	364	617	477	397	701	717	741	741	712	695	695	727	734	746	674	
25	754	754	749	749	744	744	750	744	744	742	734	723	697	682	699	716	734	751	742	738	732	737	742	749	735	
26 D	757	755	746	748	760	754	769	739	551	629	730	704	723	743	762	752	741	696	689	734	741	738	742	743	727	
27	753	751	747	742	739	751	749	745	751	747	749	751	749	749	755	756	756	749	743	738	731	735	739	743	747	
28	748	752	755	750	754	755	755	755	753	748	758	762	759	761	760	766	764	758	747	742	741	738	738	750	753	
29	754	759	759	759	747	750	752	753	747	730	713	713	728	742	749	756	763	759	754	748	742	735	743	745	746	
30	754	758	758	758	750	748	751	751	751	748	751	754	756	758	760	763	765	758	754	734	717	732	742	748	751	
31	754	758	757	755	752	749	758	755	758	754	756	746	746	755	752	758	743	736	734	732	734	741	741	754	749	
Mean	757	759	756	761	762	758	753	745	719	712	706	722	709	730	747	736	734	738	732	735	736	738	744	748	739	



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 2 Meanook

D = 25° E + ...'

January 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	13.8	14.0	14.8	15.9	12.9	14.0	13.9	13.5	14.6	22.4	25.9	25.8	27.2	23.5	18.5	20.8	19.7	13.0	06.9	04.9	11.5	13.0	12.4	11.9	16.0	
2	13.2	13.4	15.8	16.2	15.1	15.3	17.9	15.6	16.4	13.7	14.2	10.8	16.4	15.3	11.9	15.1	13.9	07.6	06.2	10.0	12.4	13.3	14.3	14.2	13.6	
3 D	14.4	14.7	15.1	15.2	14.9	14.5	14.1	13.6	16.0	23.4	25.5	26.7	26.7	20.5	15.6	08.5	-3.5	07.5	08.7	10.2	09.2	09.8	08.5	14.0	14.3	
4 D	14.2	13.5	15.2	09.0	09.1	02.9	17.4	-9.7	15.9	17.7	23.2	17.4	19.2	21.5	19.2	19.5	16.2	08.2	10.9	13.3	11.3	11.3	15.6	13.0	13.5	
5	13.1	14.8	17.3	17.3	18.3	18.1	16.8	16.3	14.0	12.4	13.5	15.5	12.3	13.5	16.7	17.8	18.4	15.5	14.3	12.2	10.1	10.6	12.3	10.6	14.7	
6	14.0	14.6	14.7	15.6	16.0	16.4	13.8	17.6	17.3	14.5	11.9	15.5	12.8	14.5	15.7	17.4	16.3	13.5	09.5	08.5	10.8	11.4	12.4	13.0	14.1	
7	13.7	14.6	14.8	15.2	14.9	14.6	14.0	14.1	13.4	12.7	12.0	12.7	12.6	13.9	17.0	16.1	16.0	14.3	11.9	08.5	11.0	11.4	11.7	13.0	13.5	
8	13.4	13.6	15.7	15.8	16.1	22.5	16.4	13.9	13.6	13.0	13.3	13.4	14.3	14.6	14.7	15.4	17.5	16.8	16.3	15.3	14.4	12.9	13.0	13.4	15.0	
9 Q	13.7	14.4	14.8	15.0	14.7	14.7	14.6	15.5	14.8	14.2	14.8	14.8	14.8	15.8	15.8	16.8	18.1	17.8	15.8	13.0	10.3	09.3	10.6	12.0	14.4	
10	13.1	13.1	14.0	14.9	15.4	15.7	14.4	13.3	12.4	12.5	12.3	12.4	12.5	13.2	15.1	16.3	15.4	14.6	13.1	12.9	10.2	09.9	11.3	12.7	13.3	
11 D	11.1	12.7	13.7	18.2	15.6	46.9	29.2	19.0	16.0	16.0	-1.9	20.6	18.5	15.4	14.2	16.3	17.7	16.6	13.2	13.9	11.7	11.1	12.6	12.6	16.3	
12	12.1	12.5	13.5	14.1	14.7	13.0	17.5	17.1	16.8	12.5	11.1	20.2	15.3	15.5	16.1	17.7	17.9	16.9	13.6	11.6	10.2	10.5	11.5	12.1	14.3	
13 Q	13.2	14.4	14.4	14.6	14.4	14.8	15.4	15.4	14.2	14.2	14.1	11.3	11.3	12.7	15.8	17.7	19.2	19.0	17.1	14.2	13.2	13.2	13.5	13.2	14.6	
14 Q	12.2	12.9	13.7	13.9	17.1	13.1	13.4	14.7	16.8	14.2	14.9	13.8	12.3	13.7	14.4	16.1	17.7	18.1	16.8	15.8	12.2	11.0	12.5	13.0	14.3	
15	12.5	13.4	13.5	13.6	13.4	13.4	14.8	15.4	11.6	14.6	13.5	13.4	12.9	13.4	13.9	16.3	19.0	19.3	17.2	14.4	11.6	08.5	08.6	07.8	13.6	
16	08.2	08.0	12.7	13.6	12.5	13.0	12.2	12.5	14.6	14.7	12.7	12.4	12.7	13.0	11.0	16.6	15.9	16.6	16.6	14.5	11.8	11.5	11.9	11.4	12.9	
17	11.7	12.9	13.9	18.5	17.9	13.6	14.8	16.6	02.1	19.8	15.4	09.7	10.0	12.1	13.6	14.9	16.9	15.8	14.2	11.4	05.7	08.3	10.0	11.2	13.0	
18	11.7	11.9	13.3	13.4	13.5	17.5	13.5	13.7	09.1	09.1	16.5	18.8	18.5	19.9	19.6	22.7	18.3	15.6	11.7	12.1	09.1	03.6	07.2	07.9	13.7	
19	09.6	08.5	09.5	11.0	12.4	13.1	13.7	11.2	09.8	12.4	13.4	13.0	14.8	14.9	14.7	16.8	16.7	15.6	13.7	11.4	08.6	05.6	07.2	07.9	11.9	
20 Q	07.0	08.4	11.3	14.4	12.0	12.7	11.3	10.3	10.6	11.3	11.5	11.9	12.0	12.1	13.8	15.4	16.1	14.9	12.8	12.5	11.5	11.5	11.6	11.6	12.0	
21 Q	11.4	11.7	12.0	12.3	12.3	12.3	12.0	11.1	11.1	12.5	13.2	13.1	12.6	13.6	14.2	16.1	16.2	16.3	14.4	10.7	05.5	04.3	04.6	03.3	11.5	
22	05.3	07.7	09.2	09.4	-0.6	01.7	11.5	11.6	09.2	10.7	14.2	23.7	23.1	18.1	16.8	16.1	16.4	15.5	14.0	10.4	09.4	09.3	10.2	10.4	12.6	
23	11.8	12.5	13.2	16.0	13.5	13.5	21.8	13.1	10.5	12.8	21.7	15.0	15.6	12.5	12.3	16.5	15.5	13.6	12.2	10.6	07.5	07.5	08.4	07.9	13.0	
24 D	09.7	09.8	13.7	21.5	17.7	13.3	34.5	28.7	07.4	10.7	11.1	21.8	10.4	09.3	14.9	15.7	21.3	17.8	12.8	11.5	07.9	09.1	09.1	13.2	14.7	
25	12.6	11.9	13.5	15.2	15.3	14.0	14.1	13.5	10.2	11.1	11.0	11.8	11.0	09.9	10.0	10.0	10.1	12.2	12.6	13.1	09.9	09.3	09.9	10.7	11.6	
26 D	10.7	10.3	10.6	15.8	06.6	23.5	21.8	16.7	11.8	09.0	18.0	14.1	13.3	14.4	15.5	15.2	14.0	09.3	00.3	06.2	11.9	10.3	08.5	09.8	12.4	
27	11.1	11.4	11.7	11.9	12.4	12.8	12.9	13.3	16.6	11.5	12.3	12.4	11.6	11.7	13.5	14.8	16.8	17.2	16.1	14.0	12.2	10.8	10.8	10.8	12.9	
28	10.9	11.1	11.6	11.8	11.9	11.6	12.9	12.3	10.0	08.8	11.9	12.6	12.1	12.1	10.7	13.3	15.7	17.7	17.1	15.6	12.7	10.0	09.4	09.5	12.2	
29	10.2	10.9	11.2	11.1	09.8	13.8	12.2	13.8	14.0	15.5	16.8	15.0	14.4	13.9	13.4	12.9	16.7	14.5	14.0	12.7	11.2	10.2	09.9	09.2	12.8	
30	09.8	09.6	10.2	11.3	10.7	11.7	12.8	12.5	12.3	10.5	10.7	11.1	11.2	12.3	13.0	14.4	16.3	16.1	14.4	14.1	12.1	09.6	08.6	08.9	11.8	
31	10.3	10.3	10.8	12.2	11.5	14.7	14.6	13.5	10.0	10.5	10.9	09.8	09.3	11.0	12.3	15.6	15.4	10.3	09.4	09.5	08.3	07.6	08.7	09.2	11.1	
Mean	11.6	12.0	13.2	14.3	13.3	14.9	15.8	13.9	12.7	13.5	14.2	15.2	14.9	14.4	14.3	16.0	16.1	14.8	12.8	11.9	10.5	09.9	10.5	10.9	13.4	

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 3 Meanook

$Z = 58,500 \gamma +$

January 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	597	598	599	600	602	603	627	622	611	599	590	530	514	500	514	536	557	571	572	583	594	596	605	607	580	
2	616	616	622	620	610	603	600	590	592	580	578	548	530	530	551	574	571	581	578	584	590	596	596	597	585	
3 D	600	600	569	600	600	600	595	564	430	400	268	624	482	523	487	500	449	644	667	703	698	640	581	595	559	
4 D	572	581	590	626	594	640	613	563	482	589	623	630	522	484	502	520	556	556	608	638	646	646	673	638	587	
5	635	627	637	636	631	621	545	584	576	538	578	591	579	591	603	605	599	600	603	604	611	611	616	619	602	
6	634	622	612	615	613	610	591	590	582	588	570	577	563	555	558	590	590	595	603	602	605	611	613	611	596	
7	605	603	606	605	610	607	606	604	600	592	581	552	534	545	574	581	586	584	592	602	605	610	611	605	592	
8	600	603	604	605	608	615	608	599	600	595	597	596	596	598	600	603	603	607	600	603	605	606	604	603	602	
9 Q	603	603	603	599	593	595	594	594	582	582	585	585	591	593	588	591	588	585	586	585	586	585	591	588	591	
10	592	597	599	599	603	603	604	603	595	592	592	591	584	589	588	590	585	583	588	588	590	590	591	592	593	
11 D	592	608	609	632	651	479	461	607	604	482	460	475	559	597	609	599	584	581	588	590	586	579	590	593	571	
12	592	603	608	606	606	603	599	594	594	544	419	449	547	579	605	605	600	598	598	603	606	600	600	605	582	
13 Q	595	599	597	593	592	586	583	579	579	576	572	559	556	576	582	580	576	578	570	570	570	570	570	570	578	
14 Q	602	603	600	598	602	600	597	592	580	581	577	586	594	595	596	598	599	597	597	595	595	599	595	594	595	
15	597	603	598	597	596	599	599	598	564	590	592	592	593	594	594	597	597	599	597	594	595	595	594	600	595	
16	612	617	632	637	646	608	599	594	572	584	594	594	595	590	585	589	591	594	597	600	602	603	603	603	602	
17	603	603	603	605	609	603	595	497	430	510	577	592	600	599	598	597	592	592	589	594	592	595	598	600	582	
18	596	595	595	595	598	599	598	598	592	533	537	522	516	538	545	570	590	585	583	613	623	621	634	645	585	
19	676	684	671	680	643	606	605	611	613	613	606	603	597	594	590	586	590	592	592	594	599	603	606	607	615	
20 Q	613	622	630	637	629	621	607	603	604	600	600	600	602	599	602	604	603	603	604	605	600	603	602	597	608	
21 Q	599	598	598	599	599	599	600	600	600	598	597	597	600	598	596	595	594	598	602	596	600	599	599	607	599	
22	621	626	618	624	684	673	624	653	635	635	615	561	527	586	603	603	604	605	606	604	604	605	604	614		
23	603	605	615	631	615	612	597	576	552	473	419	471	561	592	599	600	589	598	596	598	611	613	675	635	585	
24 D	622	644	693	664	654	633	578	514	516	448	381	414	446	455	498	540	606	610	609	612	624	615	627	630	568	
25	622	615	615	615	608	599	594	574	577	583	582	576	538	550	565	581	596	610	615	624	609	608	608	607	595	
26 D	606	608	621	654	615	589	588	578	384	446	536	538	555	572	590	597	581	581	577	581	597	597	603	607	575	
27	603	606	609	619	613	611	603	598	592	592	592	592	594	594	596	599	599	602	603	604	610	608	607	606	602	
28	603	603	603	598	596	597	595	593	582	572	588	594	589	588	591	594	595	596	595	595	596	597	597	598	594	
29	597	596	597	603	613	637	619	603	589	538	541	522	539	556	575	592	591	590	594	597	599	600	600	600	587	
30	598	598	599	599	599	604	604	600	591	578	581	584	588	591	593	595	595	594	594	597	600	597	600	599	593	
31	599	602	603	608	606	604	593	600	602	599	596	582	562	579	583	592	595	595	595	595	596	600	598	596	595	
Mean	607	609	611	616	614	605	594	590	568	559	552	562	560	569	576	584	586	594	597	602	605	603	606	605	591	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4 Meanook

January 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	08 40	814	11 20	558	256	10 52	32.3	19 25	01.1	31.2	06 20	640	11 33	484	156
2	01 55	767	11 29	683	84	06 32	22.9	18 00	01.7	21.2	03 05	629	12 07	514	115
3 D	13 51	863	11 28	-559	1422	11 25	96.0	11 15	-90.3	186.3	11 05	926	16 55	270	656
4 D	03 44	1078	08 58	268	810	08 11	57.5	08 32	-32.9	90.4	04 24	831	08 23	318	513
5	02 17	769	09 27	669	100	06 29	23.5	23 53	07.5	16.0	03 03	652	06 41	493	159
6	06 35	766	10 08	704	62	15 03	22.0	19 03	04.3	17.7	00 07	646	06 46	521	125
7	16 45	760	11 35	690	70	14 47	20.2	16 31	05.7	14.5	22 10	619	12 46	522	97
8	04 26	755	12 02	721	34	05 25	29.5	12 20	11.5	18.0	05 14	624	12 03	586	38
9 Q	04 16	780	20 10	714	66	14 23	20.4	21 21	08.4	12.0	05 11	624	10 15	564	60
10	14 00	778	10 28	732	46	16 08	19.0	20 43	08.4	10.6	06 50	605	10 31	578	27
11 D	14 06	821	09 52	407	414	05 30	77.7	11 29	-17.2	94.9	04 31	680	08 50	-182	862
12	06 25	778	10 24	618	160	11 27	25.5	10 09	02.6	22.9	05 57	643	10 02	367	276
13 Q	01 05	780	12 33	717	63	17 31	22.1	11 53	10.8	11.3	02 05	620	12 21	548	72
14 Q	07 48	762	09 40	729	33	05 40	24.7	21 20	10.1	14.6	05 40	611	10 11	562	49
15	15 26	770	08 07	724	46	17 05	20.9	23 55	05.9	15.0	07 26	607	08 42	522	55
16	03 55	799	08 00	731	68	15 22	18.5	04 00	04.7	13.8	04 02	676	08 50	551	125
17	04 07	798	08 03	303	495	08 30	34.4	08 07	-25.7	60.1	04 35	636	08 01	249	387
18	15 38	781	09 23	579	202	15 15	26.5	09 07	-7.8	34.3	23 35	657	09 25	483	174
19	02 07	812	20 35	736	76	16 10	18.0	02 08	02.7	15.3	01 35	700	15 32	581	119
20 Q	04 45	769	17 40	741	28	03 38	20.2	00 40	05.5	14.7	04 24	638	15 00	592	46
21 Q	22 09	762	19 54	733	29	16 26	17.9	23 44	01.5	16.4	23 48	613	16 30	593	20
22	05 20	964	12 27	656	308	11 49	33.3	04 52	-15.3	48.6	05 16	732	12 16	506	226
23	07 00	796	10 56	594	202	06 56	33.9	22 42	-1.2	35.1	22 48	732	10 52	390	342
24 D	14 30	801	13 11	-79	880	07 10	52.9	09 47	-24.2	77.1	02 22	712	10 09	249	463
25	00 46	781	13 09	670	111	07 26	17.9	13 15	03.9	14.0	19 11	639	12 35	500	139
26 D	04 34	816	08 40	364	452	06 08	36.6	04 40	-11.1	47.7	03 27	700	08 38	271	429
27	00 34	774	20 17	725	49	08 12	20.1	00 12	07.7	12.4	03 13	630	10 07	584	46
28	16 18	772	22 13	731	41	18 05	19.0	09 35	03.6	15.4	23 30	609	09 35	559	50
29	16 45	778	11 38	692	86	16 46	21.1	04 45	06.9	14.2	04 53	646	11 30	503	143
30	16 07	770	20 25	699	71	06 54	19.0	09 22	06.9	12.1	06 50	613	09 50	568	45
31	06 03	772	11 58	727	45	05 49	20.2	11 53	04.0	16.2	05 51	611	12 17	545	66
Mean		800		580	220		29.8		-3.2	33.0		661		465	196
No. days		31		31	31		31		31	31		31		31	31

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 5 Meanook

H = 12,000  $\gamma$  +

February 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	758	762	763	764	755	754	755	752	751	750	741	761	758	757	757	758	758	746	737	736	730	734	745	754	752	
2	755	769	765	777	773	785	824	774	762	754	747	730	738	746	754	762	754	748	741	740	738	740	744	744	757	
3	750	758	762	764	765	766	763	760	758	756	750	742	742	754	748	750	741	744	746	741	738	730	734	763	751	
4	771	760	755	751	746	744	744	742	736	691	649	626	600	663	738	719	712	742	728	730	732	732	749	746	721	
5	789	790	828	875	804	763	762	746	740	728	714	705	712	712	727	730	716	711	719	718	719	730	745	741	747	
6	744	762	761	758	758	757	750	754	751	750	747	742	637	688	749	748	730	703	703	715	711	719	730	758	734	
7 D	741	754	753	752	752	753	757	737	710	585	201	-269	604	479	091	004	670	604	622	628	739	850	859	779	590	
8 D	571	822	1107	1008	866	778	680	331	307	109	109	183	353	250	375	615	697	697	741	737	739	735	720	720	594	
9	733	734	735	739	739	739	740	711	673	542	647	726	726	724	671	671	737	726	706	715	737	740	715	723	710	
10	736	739	743	762	776	742	735	726	683	714	742	731	684	591	662	605	726	742	745	739	734	729	729	728	718	
11 Q	727	726	736	737	736	736	743	733	711	698	706	717	722	710	740	747	748	734	724	718	719	724	722	726	727	
12	734	737	740	733	737	739	736	738	728	712	722	722	728	723	704	687	686	727	719	732	729	695	723	733	724	
13	737	739	748	753	750	740	730	687	664	604	500	617	741	517	652	757	763	765	741	735	730	729	719	730	702	
14 D	736	742	744	749	748	746	746	595	709	622	550	602	702	773	762	754	749	746	746	769	783	781	743	744	723	
15	746	754	741	758	765	749	588	693	744	744	738	747	750	741	751	761	762	753	744	740	741	743	744	742	739	
16	741	744	744	745	748	746	742	742	740	744	744	744	744	744	744	748	742	735	730	712	728	742	749	741	743	
17	743	744	746	749	746	743	746	744	733	740	744	744	744	744	744	741	735	727	717	715	723	730	736	741	738	
18	741	744	746	748	749	748	746	746	741	736	745	746	748	749	752	750	742	732	723	725	723	727	734	741	741	
19 D	748	755	751	753	762	799	786	642	610	411	487	703	710	734	758	765	763	715	715	696	705	730	754	763	709	
20	740	738	741	735	728	734	734	740	746	709	656	723	741	742	754	755	748	727	719	703	719	754	794	783	736	
21 D	796	977	903	1003	1010	860	747	508	387	192	333	557	387	252	273	475	689	691	720	742	742	733	729	733	643	
22	742	750	825	922	907	852	772	692	632	425	655	738	743	737	737	738	735	742	728	726	725	721	727	733	738	
23	752	736	735	735	751	759	747	677	580	644	479	486	716	745	741	712	714	725	714	720	735	739	742	747	701	
24	750	744	745	746	746	744	740	735	720	656	672	649	738	760	754	759	757	746	727	697	727	734	744	734	730	
25	749	744	758	754	777	781	773	749	689	707	579	614	730	742	751	758	749	735	728	725	728	741	749	728	731	
26 Q	729	744	746	750	742	742	743	746	743	727	738	721	746	751	752	754	744	730	717	727	730	727	734	735	738	
27 Q	741	746	747	755	743	742	744	744	746	750	750	748	754	750	749	746	744	740	730	727	732	737	740	742	744	
28 Q	744	744	750	749	748	749	751	754	755	756	757	758	758	754	754	751	746	738	719	723	727	741	748	754	747	
29																										
30																										
31																										
Mean	741	759	772	779	772	760	744	704	687	641	629	643	695	680	684	697	734	731	723	723	731	742	743	743	719	

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 6 Meanook D = 25° E + ... ' February 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	09.4	09.1	10.0	10.9	11.0	10.7	10.9	10.9	11.5	11.7	10.7	11.2	12.2	12.7	12.5	12.9	12.9	12.7	13.5	12.6	10.7	08.4	08.8	08.9	11.1
2	09.8	07.7	08.4	08.6	06.5	07.4	14.9	09.9	09.6	11.0	12.3	13.4	14.5	15.6	16.6	17.7	19.2	16.9	14.5	11.8	09.4	07.3	08.6	09.6	11.8
3	09.8	10.2	10.4	10.5	11.3	09.8	09.3	08.9	09.9	10.1	11.2	11.2	10.4	12.2	21.4	23.6	24.6	15.6	12.8	15.2	17.4	14.3	10.3	09.4	12.9
4	10.2	10.2	11.6	12.2	12.4	12.5	11.4	11.4	10.0	11.0	18.6	23.6	22.6	21.6	17.5	14.6	13.2	14.7	14.2	12.3	10.4	09.2	07.9	08.6	13.1
5	04.8	07.1	04.5	03.9	10.0	13.8	11.4	08.7	10.1	10.6	13.9	16.5	18.8	17.9	16.5	15.0	18.4	15.3	12.5	09.4	08.3	05.3	07.0	07.2	11.1
6	07.3	07.8	09.1	10.5	11.6	10.3	10.5	10.6	10.1	10.8	11.1	12.1	10.6	11.5	15.0	15.9	19.5	22.4	17.4	12.5	09.2	07.5	07.6	06.7	11.6
7 D	08.2	09.6	09.6	10.5	12.5	13.5	11.9	23.7	09.0	18.8	-5.4	07.0	20.3	24.5	24.5	30.5	47.5	14.5	01.5	01.5	24.5	25.5	30.3	41.4	17.3
8 D	12.5	35.4	17.1	13.5	17.4	10.4	-1.9	-5.0	-28.4	-36.6	-43.6	09.4	11.1	-27.0	-34.2	05.4	15.7	17.7	21.4	18.5	14.8	12.1	13.8	11.5	03.4
9	09.9	10.0	09.8	10.8	11.1	11.1	10.4	06.3	15.0	19.6	17.4	11.0	13.0	08.1	06.1	07.8	17.3	17.2	18.4	21.4	23.0	19.2	14.0	15.2	13.5
10	15.5	15.8	14.1	15.8	14.1	05.9	05.9	-1.1	-2.8	00.3	-2.0	-4.0	-7.7	-11.7	-10.9	05.6	14.6	23.6	23.0	20.2	20.4	12.1	09.5	09.7	07.7
11 Q	10.2	11.8	11.9	11.9	11.8	09.4	10.6	09.7	13.1	12.6	10.5	09.7	09.0	00.3	05.2	10.7	14.8	15.4	13.4	15.1	12.6	10.6	08.8	07.3	10.7
12	08.3	08.9	09.5	11.9	10.5	10.9	11.0	13.9	11.9	09.7	11.4	09.5	10.3	09.2	05.6	03.8	07.8	16.5	14.1	12.9	17.3	14.0	10.6	12.3	10.9
13	11.7	11.5	11.7	11.4	09.7	10.7	10.7	09.0	09.0	-5.7	-5.4	12.8	-9.2	-12.3	-3.4	11.4	18.3	18.8	16.7	15.5	14.8	12.6	10.2	09.7	07.0
14 D	09.3	09.1	08.4	08.6	09.8	09.5	05.3	22.5	-37.6	03.8	00.4	11.7	15.1	13.1	12.8	15.1	16.3	18.5	14.0	12.2	17.1	14.5	08.2	09.3	09.5
15	09.9	11.5	13.6	19.8	31.6	17.7	11.7	-1.3	07.4	09.7	09.2	12.0	12.2	14.1	16.2	18.4	18.5	17.1	15.0	12.7	09.7	08.6	08.7	09.5	13.1
16	09.7	09.1	09.3	09.8	09.6	09.3	09.5	09.1	08.7	10.5	11.3	10.9	11.2	11.2	13.2	16.9	18.0	17.8	14.2	10.7	08.5	07.3	07.1	08.2	10.9
17	08.3	08.6	09.3	10.0	09.3	13.9	15.8	08.2	06.9	08.4	09.7	10.9	10.8	11.4	13.0	14.8	16.0	14.9	11.5	09.3	08.1	08.4	09.0	09.0	10.6
18	08.2	08.8	08.9	09.1	09.1	09.5	08.6	08.6	08.7	08.8	09.8	11.3	11.3	11.9	13.7	17.0	18.8	15.7	13.5	09.3	05.9	06.1	07.4	07.9	10.3
19 D	07.1	07.6	07.7	09.3	07.4	08.4	13.4	04.5	06.4	28.7	07.0	09.6	11.3	13.6	18.7	20.9	17.7	21.6	08.6	16.4	02.6	04.8	02.7	06.3	10.9
20	07.7	09.2	09.4	10.7	11.9	11.1	10.6	10.3	11.3	20.6	17.8	11.3	13.7	17.3	17.1	16.6	16.9	16.3	09.8	09.8	04.5	14.9	05.7	01.4	11.6
21 D	02.7	13.7	-3.0	-4.7	-9.0	05.0	13.6	-2.8	16.7	15.1	22.2	04.5	00.8	-4.4	-13.5	05.9	05.9	06.5	06.1	09.3	10.3	11.5	10.3	10.0	05.5
22	10.3	09.0	09.5	16.6	10.0	18.4	13.3	12.8	31.9	31.9	11.3	13.9	12.7	12.9	14.9	15.3	15.1	14.9	13.2	09.0	10.5	10.0	09.1	09.8	14.0
23	10.7	08.7	08.3	10.3	17.5	10.3	13.7	09.5	12.5	28.9	27.7	35.4	12.7	12.1	12.7	11.5	11.3	07.3	08.4	07.4	09.1	08.7	09.1	09.1	13.0
24	09.3	09.5	09.9	09.9	10.1	11.0	13.6	11.8	10.7	04.0	09.5	03.5	15.6	12.9	11.7	14.2	15.3	14.5	15.5	06.4	02.7	05.5	02.8	04.3	09.8
25	05.3	08.1	07.0	12.1	15.2	13.5	11.4	13.2	07.7	14.9	11.7	16.6	19.2	14.8	13.6	14.6	15.3	15.1	12.6	11.0	07.8	06.1	05.3	07.4	11.6
26 Q	08.4	08.5	11.5	11.0	10.5	10.6	10.1	12.4	11.9	11.9	16.6	06.2	09.2	11.9	12.6	15.3	17.2	15.1	08.8	06.2	07.2	07.7	07.4	08.2	10.7
27 Q	08.4	08.2	08.6	08.6	08.6	11.1	09.3	09.7	09.6	09.5	09.6	09.6	11.0	11.5	12.7	14.2	15.1	14.6	12.9	10.6	09.3	08.6	08.1	08.3	10.2
28 Q	08.4	07.6	07.6	07.8	07.8	08.4	08.1	08.0	08.6	09.2	09.3	09.8	10.7	10.6	12.7	14.5	16.9	16.7	15.3	10.3	07.2	05.9	05.5	05.8	09.7
29																									
30																									
31																									
Mean	09.0	10.4	09.4	10.4	11.4	10.9	10.5	09.0	06.8	11.4	08.4	10.5	11.2	09.2	10.5	13.9	17.1	16.0	13.3	11.8	11.2	10.2	08.7	09.7	10.8

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 7 Meanook

Z = 58,500  $\gamma$  +

February 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	595	597	598	603	603	604	604	604	597	597	584	592	593	591	596	602	600	600	600	602	604	600	600	600	600	599
2	599	603	613	623	632	640	689	643	615	597	593	563	572	583	593	603	600	602	600	599	598	596	602	599	607	
3	599	605	605	605	607	608	606	604	600	597	598	589	576	583	563	572	579	589	597	602	610	617	629	660	600	
4	652	624	618	609	605	603	606	610	600	551	500	473	506	530	590	570	554	581	594	606	611	611	624	636	586	
5	692	697	729	769	700	657	640	619	613	605	588	567	559	567	583	590	584	577	588	592	595	595	608	608	622	
6	613	616	612	603	606	606	608	608	604	604	600	592	495	502	586	603	598	597	597	604	611	609	611	629	596	
7 D	633	619	617	609	606	597	600	567	506	419	084	598	864	887	694	489	570	511	543	613	643	570	556	439	576	
8 D	155	139	244	419	342	586	631	304	552	823	617	480	520	516	484	586	641	675	676	676	667	664	646	633	528	
9	626	626	624	624	622	618	618	574	498	371	484	594	610	611	586	567	617	618	624	638	653	648	633	633	597	
10	624	624	619	622	617	600	592	557	524	541	610	626	597	441	600	589	633	644	635	634	637	629	624	622	601	
11 Q	613	619	619	618	611	597	610	597	551	525	558	567	591	549	585	595	609	609	611	616	620	619	618	618	597	
12	611	611	613	616	617	616	616	607	598	581	553	564	574	562	539	536	528	581	599	617	635	638	647	651	596	
13	638	626	619	616	613	600	607	570	451	351	277	406	567	354	495	617	617	609	600	604	609	605	609	605	552	
14 D	600	597	604	604	600	611	606	377	361	544	568	492	520	611	619	617	613	618	610	609	626	640	624	613	578	
15	615	622	631	646	624	562	457	462	500	590	583	606	621	609	610	615	611	606	603	604	602	603	603	605	591	
16	603	606	606	606	606	604	605	604	600	603	604	606	606	606	610	605	605	602	600	596	596	602	604	604	604	
17	605	605	607	607	616	644	635	615	590	594	603	603	603	603	606	607	607	607	605	605	608	608	610	611	608	
18	606	606	606	606	605	605	605	605	611	591	603	604	603	604	605	605	603	600	604	605	606	611	611	605	605	
19 D	605	606	610	606	630	661	584	568	508	487	460	527	561	570	592	597	600	586	602	603	639	646	653	638	589	
20	619	616	619	620	616	624	611	618	568	528	461	551	567	582	596	603	603	595	600	609	623	691	716	707	606	
21 D	691	659	716	648	605	603	605	468	270	607	381	484	270	006	112	534	570	603	626	618	611	610	605	613	521	
22	618	626	700	695	706	676	651	600	503	603	556	600	616	610	615	609	600	603	592	611	623	616	617	622	620	
23	617	623	639	654	603	597	616	531	462	467	313	402	570	589	592	603	600	600	605	617	623	624	613	609	574	
24	608	610	610	610	611	613	619	604	569	481	495	466	549	596	597	597	600	597	603	610	622	625	639	629	590	
25	630	620	622	665	665	667	657	618	562	559	495	443	520	558	586	604	616	613	613	613	618	617	617	613	600	
26 Q	613	617	622	618	619	616	616	609	597	533	565	581	596	597	603	607	606	605	603	605	608	611	616	613	603	
27 Q	605	604	605	604	608	613	610	606	605	600	595	595	597	600	603	603	602	599	599	600	604	600	602	603	603	
28 Q	604	600	602	603	603	603	603	602	600	599	599	596	597	598	603	602	602	600	596	596	599	600	597	597	600	
29																										
30																										
31																										
Mean	603	601	612	619	611	615	611	570	543	555	519	549	572	558	573	590	599	601	604	611	618	618	619	615	591	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8 Meanook

February 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 Q	02 52	772	20 45	724	48	13 43	14.9	23 05	07.6	<u>07.3</u>	23 35	608	10 50	574	34
2	06 38	875	11 36	723	152	06 50	26.0	03 46	00.8	25.2	06 43	746	11 45	543	203
3	23 40	785	18 00	711	74	14 48	28.2	13 48	04.7	23.5	23 44	678	14 00	539	139
4	00 12	793	12 31	501	292	12 30	30.7	22 13	05.2	25.5	00 06	678	12 07	444	234
5	03 20	913	13 27	672	241	16 55	24.0	03 15	-7.0	31.0	03 18	799	13 25	529	270
6	01 46	773	12 54	526	247	17 13	26.5	12 40	01.4	25.1	23 57	640	12 45	384	256
7 D	12 42	1040	11 15	-988	2028	15 06	148.0	10 23	-48.1	196.1	13 18	1040	10 44	-212	1252
8 D	02 03	1520	09 06	-443	1963	07 14	147.3	13 43	-88.1	235.4	09 45	1057	07 45	-339	1396
9	21 14	775	09 55	493	282	09 47	27.3	07 34	01.7	25.6	21 12	670	09 18	334	336
10	04 37	789	15 29	486	303	17 03	26.4	14 03	-18.0	44.4	15 04	654	13 11	354	300
11 Q	16 19	757	13 15	671	86	09 08	20.2	13 10	-1.2	21.4	01 07	626	09 37	496	130
12	20 00	750	16 00	648	102	20 47	20.8	16 06	-4.8	25.6	23 25	658	16 00	506	152
13	12 35	792	13 25	382	410	17 00	21.1	13 12	-18.6	39.7	12 40	649	10 41	220	429
14 D	20 49	867	08 14	-252	1119	07 32	68.8	08 25	-58.6	127.4	09 45	788	08 59	-190	978
15	03 47	813	07 36	403	410	04 25	41.2	07 37	-28.4	69.6	03 47	678	07 42	306	372
16	23 01	789	23 03	695	94	15 26	20.9	23 05	03.5	17.4	14 48	621	23 05	581	40
17	06 38	777	18 35	710	67	05 34	23.8	07 50	04.3	19.5	05 49	668	09 04	579	89
18	15 57	762	18 17	703	59	16 33	22.7	20 45	03.4	19.3	08 15	617	09 44	578	39
19 D	06 21	863	10 10	319	544	09 52	52.5	20 38	-8.1	60.6	05 28	689	10 27	337	352
20	22 04	838	10 32	610	228	10 45	24.8	23 25	-5.5	30.3	21 52	780	10 32	403	377
21 D	03 45	1099	09 52	-212	1311	10 28	110.7	13 53	-96.7	207.4	09 53	856	13 48	-07	863
22	03 45	973	09 09	334	639	09 12	51.9	09 55	-2.5	54.4	09 22	840	08 10	430	410
23	04 03	895	10 20	361	534	08 42	56.5	08 08	-32.1	88.6	08 33	685	08 07	225	460
24	00 04	773	11 02	550	223	12 37	19.9	09 12	-6.6	26.5	22 30	657	11 03	372	285
25	04 49	824	10 46	419	405	11 40	27.3	08 22	00.4	26.9	03 25	698	11 35	408	290
26 Q	03 22	759	18 35	709	50	10 21	20.4	11 37	03.9	16.5	04 15	625	09 42	493	132
27 Q	11 51	758	18 55	725	<u>33</u>	16 10	18.6	22 15	07.4	11.2	05 22	621	11 42	586	35
28 Q	10 00	762	18 18	703	59	18 17	19.2	22 20	05.0	14.2	00 05	609	18 20	590	<u>19</u>
29															
30															
31															
Mean		852		424	428		40.7		-13.4	54.1		712		359	353
No. days		28		28	28		28		28	28		28		28	28

**HORIZONTAL INTENSITY**  
 Mean values for periods of sixty minutes, Universal Time

Table 9 Meanook

H = 12,000  $\gamma$  +

March 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	753	763	782	917	986	814	797	649	104	740	753	742	750	741	732	731	720	724	727	731	736	758	755	787	737
2	770	797	770	766	813	872	825	805	748	748	753	750	752	748	740	734	724	715	711	711	720	731	734	746	758
3 Q	742	743	746	747	746	749	754	750	748	745	746	746	747	745	744	738	734	724	706	719	731	738	747	754	741
4	741	738	751	752	751	752	746	646	716	744	629	613	754	752	707	677	727	737	728	717	705	723	801	785	725
5	863	746	752	769	755	755	754	738	731	697	692	633	528	586	621	605	714	723	720	711	695	722	738	745	708
6	743	754	801	774	747	761	716	603	691	693	650	622	710	739	741	751	739	725	716	714	716	739	739	741	722
7	752	743	743	755	748	753	749	743	743	655	626	622	735	754	745	725	718	701	700	707	720	732	739	718	718
8	744	744	747	748	748	750	752	755	750	738	749	740	738	745	749	739	725	706	714	713	711	717	720	737	737
9	729	739	749	753	753	756	758	758	754	755	754	759	760	758	727	680	674	706	727	709	716	731	732	738	736
10 D	758	769	882	882	879	776	629	694	512	520	703	748	766	656	610	758	777	765	727	703	812	790	886	1033	751
11	920	898	810	787	793	756	691	672	659	606	553	701	610	629	736	716	736	713	716	721	738	716	756	711	723
12 Q	730	730	737	739	741	739	741	738	727	725	729	736	738	741	743	742	745	735	723	722	726	723	724	726	733
13 Q	733	737	739	743	739	737	742	743	746	742	735	731	746	743	743	745	732	712	700	716	721	725	725	732	734
14 Q	743	747	739	741	747	746	745	746	746	739	745	749	746	746	745	738	732	720	709	712	721	735	735	738	738
15	743	737	743	742	747	749	749	752	735	619	418	463	556	711	751	751	741	731	721	721	729	734	745	751	702
16 Q	747	745	747	746	745	743	746	748	748	746	753	754	751	751	743	741	735	728	722	720	720	727	726	735	740
17	760	766	791	786	749	755	804	734	752	754	749	694	595	659	755	751	760	708	718	720	704	714	736	743	736
18	749	753	747	746	749	745	747	754	712	636	679	755	762	755	762	765	749	719	707	710	716	725	732	739	734
19	745	748	749	749	749	749	751	744	744	754	751	753	742	751	753	754	747	741	729	726	730	737	733	743	745
20	753	747	754	757	754	749	751	750	751	753	749	677	746	756	747	741	746	741	732	722	718	728	730	737	741
21	749	754	754	750	763	765	806	757	753	760	749	582	663	737	776	764	747	743	722	714	718	725	730	735	738
22 D	742	745	750	751	751	759	758	593	587	517	569	658	678	672	737	749	746	730	713	720	726	743	753	784	705
23	751	748	755	756	747	750	753	749	751	749	746	746	737	734	730	735	737	728	720	717	712	728	751	942	749
24 D	779	633	855	604	881	807	765	717	585	102	010	154	006	-230	425	-055	726	779	752	725	705	718	731	763	539
25 D	856	1101	909	789	460	616	104	-08	-82	-261	-142	-99	-191	167	-73	076	377	306	357	767	811	993	926	949	404
26	951	940	939	969	807	750	272	545	425	403	346	622	599	526	630	717	730	701	697	736	803	791	771	772	685
27	789	857	783	856	843	750	742	723	719	694	545	503	620	596	633	682	739	739	727	717	727	780	851	768	724
28 D	805	900	1036	1130	1160	863	465	664	509	537	199	553	444	461	539	792	557	657	618	559	705	760	736	777	684
29	747	742	773	823	693	688	706	686	664	640	666	590	664	697	720	708	688	681	654	674	681	692	708	720	696
30	729	723	719	715	715	724	723	727	721	725	730	728	728	731	730	724	712	695	694	695	706	702	711	719	718
31	728	730	734	739	739	755	767	728	693	565	625	558	643	683	739	723	728	709	711	704	722	737	750	787	708
Mean	769	775	783	783	774	756	703	690	650	630	612	632	636	652	683	685	715	709	700	711	725	742	753	770	710



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 10 Meanook

D = 25° E + ...'

March 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	08.3	06.7	-0.1	-2.7	-5.1	09.7	07.6	12.5	-9.8	19.7	15.9	17.7	18.6	17.1	18.0	19.2	18.3	16.8	13.4	08.6	06.7	06.2	07.6	07.6	09.9
2	06.7	02.3	06.2	09.8	06.7	09.0	06.3	07.8	08.2	10.0	12.4	15.4	15.6	15.3	16.3	19.0	19.0	17.9	14.8	11.7	10.1	09.6	10.0	10.0	10.9
3 Q	10.8	09.6	09.6	09.8	09.9	10.8	09.1	09.1	10.3	11.2	12.7	13.4	14.1	14.6	15.6	16.8	16.8	15.3	12.7	08.4	07.1	07.1	07.6	05.5	11.2
4	07.6	07.6	06.2	07.0	08.8	07.6	10.1	10.7	12.9	12.9	11.6	15.9	18.6	18.5	19.2	17.7	17.7	12.5	12.5	07.9	11.2	07.1	03.3	03.7	11.2
5	06.4	06.9	07.2	07.1	09.8	11.3	18.7	10.7	10.8	10.9	06.7	17.2	25.0	21.7	12.7	12.4	14.4	12.5	12.3	11.9	06.9	06.2	06.9	08.6	11.5
6	07.1	07.0	15.2	05.7	09.2	12.0	05.7	02.8	15.3	09.8	08.8	07.9	14.8	18.6	20.6	19.9	19.1	16.6	15.7	10.5	06.0	05.9	07.6	07.8	11.2
7	06.8	06.6	09.0	10.2	07.6	11.5	11.0	14.5	17.8	13.3	02.6	10.5	09.6	12.4	16.3	19.1	21.2	16.7	13.2	08.1	06.9	06.9	07.9	07.9	11.2
8	08.4	08.6	09.2	09.3	09.1	10.0	09.2	12.4	12.2	10.6	11.4	10.8	10.1	13.4	16.6	20.4	21.0	17.0	15.4	11.3	08.8	06.5	06.9	07.5	11.5
9	07.8	07.9	07.6	07.7	07.2	07.6	07.3	07.8	09.8	10.5	11.2	11.8	12.1	12.5	17.1	12.6	08.9	06.9	09.0	10.7	06.3	08.6	07.5	05.5	09.2
10 D	06.3	09.7	28.3	12.0	08.2	07.8	-4.2	12.8	15.8	16.0	12.7	08.9	12.2	09.4	19.9	18.3	19.2	18.6	17.4	28.9	29.3	28.1	17.3	19.2	15.5
11	18.6	16.7	12.0	09.9	07.9	06.2	-1.1	11.2	11.4	13.4	08.9	11.0	07.4	04.4	12.2	16.0	22.3	22.1	21.5	20.2	14.0	10.8	08.8	10.2	12.3
12 Q	08.1	08.7	09.8	10.7	10.6	13.9	12.3	10.0	09.3	09.9	10.5	10.1	10.2	12.2	12.8	13.4	14.0	15.7	15.7	13.4	10.5	09.9	09.6	09.0	11.3
13 Q	09.2	09.9	09.2	09.7	10.4	10.7	11.8	09.9	11.8	10.6	10.8	10.5	13.4	14.1	13.9	16.6	18.6	18.5	12.0	09.0	07.1	06.9	08.3	08.6	11.3
14 Q	09.7	09.8	09.2	09.7	10.3	10.5	09.2	09.2	09.4	10.8	14.8	12.5	13.1	12.6	12.5	14.9	17.3	16.0	15.2	07.4	07.1	05.7	07.0	08.3	10.9
15	08.6	08.8	08.6	09.0	09.2	09.6	09.8	09.9	09.6	25.0	37.1	24.4	15.2	17.3	20.6	19.1	18.0	14.9	12.5	09.8	09.3	08.9	08.9	08.6	13.9
16 Q	08.9	09.3	09.3	09.5	09.5	10.2	11.7	12.2	10.6	09.0	10.4	11.4	11.4	12.7	15.0	15.7	17.0	15.6	13.2	11.7	10.3	08.9	07.6	06.6	11.2
17	05.1	03.8	04.4	18.5	06.7	08.5	13.2	13.9	17.1	11.1	11.1	13.4	08.6	01.3	13.4	18.5	22.1	18.3	12.5	13.5	08.5	07.0	06.9	07.3	11.0
18	08.9	09.8	10.5	09.8	10.5	10.1	13.1	20.4	13.3	12.1	12.8	10.8	11.3	13.4	14.3	16.5	19.0	18.6	12.5	11.0	09.6	07.1	05.9	05.9	12.0
19	07.4	09.0	09.6	11.7	13.2	09.5	13.5	12.3	09.6	10.3	10.7	09.8	07.6	10.3	12.7	16.3	17.7	15.9	13.8	08.4	06.5	05.4	04.4	04.3	10.4
20	02.7	06.6	06.0	07.4	08.8	09.8	12.7	11.2	12.5	09.9	09.7	09.1	16.3	15.4	14.2	15.4	15.4	15.9	14.7	12.3	08.9	07.3	06.6	07.3	10.7
21	07.9	08.9	09.4	17.3	07.6	07.5	13.6	13.2	10.9	10.0	09.8	03.1	10.5	16.1	20.4	20.5	20.2	16.7	15.9	11.7	09.4	07.5	07.7	07.8	11.8
22 D	08.0	08.8	09.1	09.2	09.1	09.1	08.1	47.3	36.2	18.3	12.7	15.6	15.4	17.8	16.2	20.2	19.9	22.4	15.7	10.8	06.9	06.9	06.7	00.7	14.6
23	04.9	04.9	06.1	07.1	07.0	07.8	08.5	09.4	09.7	12.3	12.3	12.5	13.2	15.3	16.9	17.5	16.8	16.5	16.3	11.6	05.7	04.9	03.4	-9.8	09.6
24 D	05.7	-4.3	18.6	-15.6	03.6	10.5	09.8	08.6	03.5	-11.5	12.9	03.3	05.2	-1.0	25.6	-11.0	23.4	15.8	12.3	09.8	09.5	09.5	09.7	06.9	06.7
25 D	06.0	20.9	-2.8	-17.9	18.9	-9.2	21.3	-7.5	26.7	21.3	56.1	43.6	37.6	37.6	19.9	20.1	32.5	63.2	25.0	34.5	38.4	53.7	14.7	09.7	23.5
26	11.0	02.9	-2.5	-3.3	00.7	-21.1	02.5	03.9	18.6	13.4	10.5	20.1	23.9	29.6	23.1	24.1	21.2	20.4	19.2	14.2	17.5	07.6	07.3	04.7	11.2
27	03.9	05.7	08.1	00.3	17.5	15.8	10.5	09.5	12.7	15.4	08.8	04.9	26.2	17.8	18.9	28.9	24.1	20.0	19.2	19.2	13.6	09.4	08.1	01.6	13.4
28 D	-2.7	-2.0	00.2	-0.9	-20.2	-12.2	-4.6	-4.4	-14.7	10.7	28.7	24.0	26.4	34.7	38.1	32.8	36.5	27.4	10.8	25.4	31.3	27.9	19.7	16.9	13.7
29	13.9	15.7	05.8	02.8	11.8	12.3	11.7	11.8	10.3	14.2	17.3	19.4	20.9	20.7	21.6	21.6	22.8	20.2	14.7	14.4	09.8	10.3	10.3	09.7	14.3
30	09.4	09.9	12.0	12.5	11.5	10.2	10.5	10.3	10.7	10.5	11.4	11.5	12.7	15.4	17.6	20.1	19.2	17.5	13.3	09.9	06.1	04.7	05.8	06.6	11.6
31	07.2	08.0	09.8	08.9	08.3	07.2	18.3	12.1	10.8	18.3	20.7	06.1	05.6	15.4	18.3	12.7	21.8	19.2	15.8	14.4	11.6	10.3	07.9	08.9	12.4
Mean	07.7	07.9	09.3	07.2	07.9	07.6	09.6	10.8	11.4	12.6	14.3	13.4	14.6	15.7	18.4	17.6	19.9	18.8	14.8	13.2	11.3	10.7	08.3	07.2	12.0

**VERTICAL INTENSITY**  
Mean values for periods of sixty minutes, Universal Time

Table 11 Meanook

$Z = 58,500 \gamma +$

March 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	596	599	607	592	593	640	624	512	351	635	623	626	640	624	618	617	617	613	613	613	609	615	608	626	600
2	661	667	650	645	678	691	697	673	633	627	627	617	608	607	604	612	616	618	619	619	616	610	611	609	634
3 Q	605	604	603	602	602	608	610	610	610	608	603	602	603	603	599	599	599	600	600	600	605	610	611	611	604
4	605	613	617	626	635	639	611	468	530	606	531	489	592	597	559	511	531	558	576	599	616	649	693	670	588
5	706	624	635	658	657	632	615	610	605	554	534	462	398	414	509	507	570	588	579	630	626	623	635	643	584
6	633	638	665	681	643	649	605	602	590	583	507	452	535	584	594	617	609	608	616	621	616	624	632	611	605
7	622	624	624	630	644	626	622	619	599	558	509	498	486	574	602	605	603	605	610	619	619	624	622	612	598
8	615	610	607	603	603	606	605	603	606	605	603	603	590	589	592	597	595	600	604	607	610	611	609	604	603
9	603	603	604	606	609	620	618	624	618	613	609	603	605	600	591	536	495	568	567	593	619	640	648	646	602
10 D	646	665	767	755	698	636	470	524	467	544	507	582	622	524	475	615	629	627	609	637	742	732	716	675	619
11	649	664	686	662	625	622	559	562	556	503	452	539	517	557	610	620	625	625	617	627	630	622	632	629	600
12 Q	631	620	616	612	615	613	600	595	591	579	581	591	598	603	606	606	606	606	604	606	608	612	610	607	605
13 Q	603	608	605	605	605	604	606	606	606	599	591	576	598	599	603	600	598	595	590	595	604	611	606	603	601
14 Q	608	608	605	600	598	605	610	606	605	578	542	594	595	600	598	597	599	603	606	612	604	608	610	611	600
15	609	607	603	600	599	603	600	599	577	344	308	389	493	527	579	600	603	603	611	612	622	624	624	617	568
16 Q	606	605	605	605	604	603	602	600	596	589	590	598	598	603	600	600	603	604	603	605	605	611	609	608	602
17	605	608	676	678	627	625	622	516	555	591	594	536	441	497	576	595	590	600	594	600	613	610	609	616	591
18	610	610	611	611	609	607	613	570	561	430	493	572	592	595	605	603	597	595	595	602	600	605	608	606	588
19	603	605	606	608	606	605	595	571	553	590	594	594	586	592	598	599	594	594	589	583	588	595	594	595	593
20	600	603	603	602	603	603	609	606	596	590	583	479	512	561	586	583	589	590	590	591	600	607	607	608	588
21	608	609	609	624	617	613	632	529	568	596	584	462	459	523	593	599	598	599	600	597	596	602	599	599	584
22 D	597	599	600	600	598	603	605	559	571	662	581	549	556	564	606	610	616	610	615	610	605	606	606	613	598
23	617	633	625	615	613	605	607	607	607	600	598	595	592	590	589	597	589	583	590	603	597	608	619	646	605
24 D	335	348	349	372	398	581	580	581	694	727	721	808	816	693	1034	753	680	634	632	635	637	644	652	670	620
25 D	662	400	198	416	441	630	621	862	1222	720	920	1119	551	990	812	1250	1040	964	678	721	626	603	646	631	738
26	529	527	646	608	403	412	308	555	668	761	697	570	538	484	481	529	586	611	635	636	664	659	665	676	577
27	707	702	701	734	698	659	660	653	643	611	565	501	481	481	462	567	633	626	631	629	638	665	711	688	627
28 D	686	738	680	445	473	414	574	670	490	563	673	598	1266	1329	1472	1230	1148	771	703	752	736	714	736	672	772
29	676	664	678	704	658	649	678	668	659	643	643	609	607	626	645	663	660	645	646	652	650	660	663	663	655
30	663	661	660	651	650	638	635	633	621	613	622	627	630	636	638	638	637	636	635	634	638	638	636	634	638
31	633	640	646	642	660	670	603	600	566	470	508	550	536	594	642	650	644	642	642	640	640	661	670	728	620
Mean	617	610	616	616	602	610	600	600	604	590	584	580	588	612	635	642	635	623	613	622	625	629	635	633	613

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12 Meanook

March 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			25° E +		25° E +			58,500 $\gamma$ +		58,500 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1	04 20	1401	08 25	-110	1511	09 12	35.7	08 28	-46.5	82.2	09 08	768	08 29	198	570
2	05 14	935	19 11	706	229	16 20	21.6	06 15	-2.6	24.2	05 35	726	14 36	594	132
3 Q	23 11	764	18 51	703	61	15 53	18.7	23 07	03.6	15.1	23 13	616	18 19	594	22
4	22 37	854	11 08	473	381	16 12	21.4	22 41	-5.0	26.4	22 37	722	07 38	304	418
5	00 30	1010	12 17	473	537	13 37	42.7	00 55	-3.3	46.0	00 47	762	12 55	317	445
6	02 40	826	06 20	476	350	02 41	30.5	07 16	-11.5	42.0	03 12	730	11 23	392	338
7	00 15	770	10 01	424	346	08 18	25.6	10 14	-9.8	35.4	04 32	648	11 56	425	223
8	15 19	758	18 06	688	70	16 13	22.9	21 47	04.0	18.9	00 48	618	12 43	575	43
9	23 04	777	16 01	625	152	19 12	23.3	17 20	-0.8	24.1	23 10	661	16 05	473	188
10 D	23 05	1081	08 50	375	706	19 35	42.6	06 27	-25.3	67.9	02 27	852	08 36	335	517
11	01 12	1071	10 35	497	574	16 52	29.3	06 50	-14.6	43.9	01 06	721	06 50	381	340
12 Q	06 43	755	18 55	714	41	06 00	21.6	06 55	-0.6	22.2	00 20	644	06 44	561	83
13 Q	12 43	754	18 37	693	61	16 45	20.9	20 20	05.4	15.5	21 55	616	11 18	554	62
14 Q	10 50	757	18 50	695	62	17 15	19.0	19 41	04.5	14.5	19 07	622	10 12	500	122
15	16 07	768	10 42	229	539	09 41	53.1	08 45	00.1	53.0	21 56	626	10 35	225	401
16 Q	10 56	759	22 00	708	51	16 06	18.7	23 10	05.5	13.2	21 30	619	09 48	579	40
17	06 16	872	12 58	451	421	03 00	31.5	12 37	-9.8	41.3	03 12	756	12 28	406	350
18	07 00	788	09 51	566	222	07 12	27.0	22 24	05.6	21.4	06 35	624	09 53	361	263
19	06 47	774	08 02	712	62	06 52	19.4	23 13	02.8	16.6	06 25	616	08 05	524	92
20	00 59	776	11 30	620	156	11 55	21.4	11 42	-1.1	22.5	07 16	624	11 52	395	229
21	06 33	846	11 35	463	383	16 26	23.6	11 42	-7.5	31.1	06 39	645	11 53	379	266
22 D	08 05	802	08 23	385	417	08 32	64.3	23 15	-1.9	66.2	09 38	775	08 08	430	345
23	23 47	1109	20 35	699	410	18 33	47.9	23 55	-21.9	69.8	23 35	732	15 03	572	160
24 D	02 34	1013	13 10	-621	1634	13 20	104.0	03 19	-104.4	208.4	14 00	1282	13 05	209	1073
25 D	01 36	1210	09 59	-617	1827	10 39	134.7	15 39	-99.8	234.5	08 45	1608	09 48	049	1559
26	02 05	1148	06 17	-142	1290	05 53	55.7	06 14	-61.0	116.7	10 19	899	06 15	081	818
27	01 47	1091	11 18	386	705	13 05	36.4	11 08	-22.6	59.0	01 48	783	14 00	389	394
28 D	03 18	1294	06 40	-112	1406	11 30	68.5	09 07	-43.6	112.1	14 31	1390	11 35	277	1113
29	03 40	1068	11 17	501	567	16 28	26.3	00 41	-11.4	37.7	03 05	829	12 14	294	535
30	00 53	750	19 50	679	71	15 40	20.8	21 04	00.7	20.1	02 30	665	09 12	611	54
31	06 09	837	11 35	512	325	06 37	35.6	12 03	-7.8	43.4	23 26	749	09 28	438	311
Mean		917		415	502		37.6		-15.5	53.1		722		401	371
No. days		31		31	31		31		31	31		31		31	31

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 13 Meanook

H = 12,000  $\gamma$  +

April 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	757	773	836	727	720	733	749	592	539	716	710	677	703	740	733	733	725	708	705	717	713	722	741	736	717
2	740	739	740	747	774	767	740	703	732	479	567	624	679	698	690	705	701	707	703	709	725	733	736	720	702
3	725	722	722	722	747	736	750	735	728	738	735	715	683	734	733	721	704	700	701	696	701	715	727	722	721
4	735	744	743	744	744	733	755	731	733	727	707	705	729	742	733	720	714	703	683	685	696	716	749	750	726
5	761	727	707	727	741	735	739	739	742	744	744	742	727	711	705	705	690	679	681	690	700	717	724	730	721
6	747	750	760	748	750	754	731	736	731	727	687	644	657	644	687	720	716	694	701	705	709	716	727	731	716
7	731	761	757	840	835	876	828	764	746	727	722	705	701	716	685	676	711	711	710	710	719	730	739	744	744
8	742	743	742	743	743	750	729	754	734	564	738	758	744	717	750	750	743	726	721	720	736	744	744	747	733
9 D	750	753	760	761	754	748	758	751	748	356	214	322	423	371	411	356	682	717	729	717	730	746	788	747	630
10	772	767	739	734	726	728	730	733	737	741	674	599	728	737	737	728	710	708	710	708	714	719	719	730	722
11 Q	730	735	735	735	737	737	730	734	738	739	739	739	730	734	748	757	742	727	722	714	722	732	739	742	735
12	745	745	744	751	743	743	748	747	751	751	753	748	755	753	753	743	737	728	721	728	730	762	750	754	745
13	754	761	784	767	815	811	703	758	734	571	670	722	737	745	758	741	720	722	723	691	731	749	765	761	737
14 D	782	757	736	734	731	737	741	747	752	691	431	204	293	215	422	732	749	727	714	716	716	744	751	788	650
15 D	767	902	921	851	739	579	340	161	143	120	285	172	-242	-221	207	500	731	731	697	735	759	762	754	751	506
16	752	751	762	762	756	738	738	739	740	747	747	740	747	752	746	742	735	730	726	723	737	740	738	736	743
17	752	747	732	736	738	736	740	743	746	749	749	735	709	706	749	745	738	728	717	710	706	707	712	718	731
18	732	743	746	743	756	743	745	748	724	632	604	691	728	748	742	742	739	724	703	704	703	717	721	732	721
19 Q	752	759	750	754	750	748	776	748	748	750	752	754	761	761	756	756	745	731	717	717	711	718	723	724	744
20 Q	721	743	750	745	745	738	742	743	750	752	752	750	752	759	753	745	737	743	737	735	728	731	732	737	742
21 Q	743	756	756	761	749	750	752	761	756	763	763	761	759	745	756	754	743	737	721	723	727	735	735	736	748
22	743	743	749	753	751	754	758	779	680	379	464	614	777	796	793	799	788	788	779	760	760	753	755	757	728
23 D	755	777	762	764	782	616	503	408	471	141	256	391	053	391	245	133	343	239	493	626	812	969	1184	762	525
24 D	757	814	810	784	810	644	667	560	190	455	234	348	515	439	515	607	669	789	751	781	842	853	817	825	644
25	916	992	911	763	807	783	734	714	730	723	715	715	712	719	719	720	717	719	712	715	719	734	744	741	757
26	726	734	756	754																					
27	750	765	769	756	721	730	744	741	744	744	745	747	750	744	732	719	715	719	715	715	719	744	747	769	739
28	774	796	782	758	740	738	738	763	756	741	752	742	733	719	712	700	695	734	719	719	734	744	763	763	742
29	756	741	756	758	761	758	761	715	676	734	741	680	729	758	747	741	726	719	723	737	752	747	747	763	739
30 Q	778	785	767	763	763	767	778	774	767	765	767	767	763	756	756	750	746	738	730	722	725	725	730	737	755
31																									
Mean	756	768	766	756	756	738	722	701	682	637	635	638	639	649	672	678	710	708	713	715	730	732	759	747	709

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 14 Meanook

D = 25° E + ... ' 1

April 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	02.8	02.1	08.8	05.2	07.8	08.6	08.8	-16.3	10.0	16.0	13.7	14.6	12.7	14.8	16.3	16.0	15.2	14.6	11.8	09.3	05.7	00.4	00.8	00.8	08.4	
2	01.4	07.5	05.2	06.4	07.9	18.3	10.6	04.6	11.0	18.5	29.4	19.9	17.1	17.6	10.9	17.1	14.0	14.8	11.8	10.6	09.2	06.3	03.7	03.7	11.6	
3	05.1	06.8	09.5	10.0	08.8	08.3	11.2	08.3	08.5	10.6	10.4	07.9	06.4	14.4	18.3	18.0	15.2	16.1	10.7	04.6	02.3	02.4	02.2	03.1	09.1	
4	04.0	03.8	06.2	08.1	10.8	10.3	11.4	07.9	09.5	10.9	13.7	10.9	13.9	16.3	17.9	17.4	16.8	16.0	13.9	09.8	05.9	03.0	01.7	00.2	10.0	
5	-0.6	01.7	05.6	07.7	07.7	07.7	07.7	07.9	07.9	11.2	12.6	11.4	10.5	11.7	17.7	17.7	23.5	23.5	18.4	05.8	-3.8	-1.6	00.2	01.0	02.2	09.1
6	02.3	02.8	-0.1	04.5	03.9	02.0	06.6	07.7	07.9	11.0	12.2	10.7	13.5	14.6	17.1	18.2	17.1	12.7	08.6	05.7	03.6	00.3	-1.9	-1.1	07.5	
7	01.2	01.7	02.0	-5.0	00.9	01.2	-0.3	07.7	12.5	11.6	09.1	08.6	04.1	06.0	12.2	07.7	04.3	06.0	07.6	06.2	02.8	03.4	04.1	04.1	05.0	
8	04.8	05.7	05.9	06.5	07.7	06.5	21.4	17.0	18.2	24.4	18.3	11.1	10.2	10.9	17.0	17.3	17.0	15.7	11.5	08.0	07.2	05.3	06.5	07.2	11.7	
9 D	06.7	07.2	06.7	06.2	04.8	05.7	07.5	09.9	09.8	16.1	62.4	46.0	17.5	27.1	16.8	13.9	15.9	09.8	06.7	04.3	05.0	05.0	07.2	09.6	13.7	
10	10.9	11.1	07.9	07.4	07.0	07.3	08.8	10.5	09.0	09.0	02.8	-0.1	09.2	14.4	19.4	19.9	18.4	15.2	11.0	08.8	06.0	05.9	07.0	07.6	09.8	
11 Q	07.9	07.3	07.3	07.3	07.4	07.3	07.6	08.6	11.0	13.7	12.5	08.8	09.4	11.5	15.4	18.4	18.5	15.7	12.1	09.2	06.7	07.2	08.4	09.3	10.4	
12	08.6	07.1	05.0	05.7	05.4	06.8	06.5	07.2	07.9	07.8	07.1	11.0	15.1	13.0	15.8	15.4	19.0	17.2	13.0	07.0	02.9	02.4	02.0	01.2	08.8	
13	05.0	04.6	02.9	02.6	06.1	13.5	23.3	06.9	09.1	07.7	08.5	11.0	11.8	15.3	16.6	15.6	13.6	10.3	07.9	11.4	06.5	04.1	04.7	05.5	09.0	
14 D	06.9	09.3	07.6	07.4	09.6	13.5	08.3	08.9	08.6	09.6	02.6	-10.5	-13.9	18.7	04.8	21.7	17.4	12.7	09.7	06.2	03.8	04.0	02.7	02.2	07.2	
15 D	04.1	03.8	23.3	10.2	11.0	-6.5	-13.7	-26.2	07.9	-12.9	13.0	44.6	08.6	06.3	10.9	27.1	23.6	16.7	13.7	08.0	05.0	05.8	07.7	09.0	08.4	
16	08.8	08.7	08.3	06.9	10.6	07.6	07.9	08.5	08.6	10.0	09.7	09.6	13.6	15.4	15.1	16.0	16.6	15.1	12.4	08.9	08.7	08.1	05.4	03.5	10.2	
17	07.2	05.0	04.3	05.7	06.7	08.2	10.8	11.8	09.9	07.9	07.9	06.8	06.3	07.0	13.2	17.4	18.8	16.4	13.2	09.3	06.7	04.7	03.0	02.2	08.8	
18	03.9	05.7	07.0	08.6	07.9	07.9	07.9	07.9	10.6	16.1	14.6	18.0	14.1	13.9	11.7	14.6	15.1	17.7	13.5	09.3	06.0	04.2	03.1	03.6	10.1	
19 Q	05.0	06.3	06.5	07.9	07.5	07.1	08.6	10.9	09.6	07.7	07.7	09.6	08.4	09.3	11.6	15.1	18.5	17.0	09.6	09.8	05.6	04.4	03.7	03.6	08.8	
20 Q	04.0	05.0	06.9	07.6	07.7	06.9	07.4	07.6	07.7	07.6	07.0	06.9	07.9	10.8	11.9	13.9	12.6	11.4	10.8	09.3	06.0	03.6	03.3	03.8	07.8	
21 Q	04.8	06.0	07.5	07.5	08.6	07.9	08.1	09.1	11.2	10.3	10.3	10.9	11.2	13.5	14.0	15.1	16.3	16.3	13.0	07.4	04.2	03.3	02.3	02.9	09.2	
22	03.8	04.5	05.4	05.9	06.4	06.7	06.4	06.0	06.5	36.2	34.1	28.4	17.6	15.2	17.2	20.4	19.9	18.0	12.7	07.0	02.9	04.8	04.3	04.6	12.3	
23 D	04.3	07.0	12.7	08.6	07.9	04.3	-1.7	04.8	06.3	-1.4	74.6	15.3	53.0	15.8	17.7	37.4	17.5	25.0	08.6	20.6	34.1	39.8	59.0	31.9	21.0	
24 D	-21.9	-9.2	-49.0	-40.4	-34.6	15.8	-1.5	-9.5	-10.6	01.4	03.8	16.3	18.2	39.2	29.9	08.6	22.2	20.2	12.3	11.8	20.5	10.8	05.4	03.0	02.6	
25	11.8	07.9	10.8	03.9	09.7	08.7	07.4	08.4	09.4	09.4	10.7	10.3	10.7	10.7	10.7	09.4	10.7	09.2	07.7	04.7	03.4	02.9	01.3	01.5	08.0	
26	02.4	05.1	05.1	06.0	07.8																					
27	11.8	07.8	08.5	07.3	09.6	09.4	09.0	07.0	07.5	07.5	07.5	07.3	09.2	09.7	11.8	12.5	10.8	09.2	07.3	04.4	01.0	00.0	-0.7	00.5	07.3	
28	02.9	05.3	05.8	07.3	07.7	07.2	07.6	07.5	04.8	05.8	07.8	07.5	08.5	10.2	15.4	17.3	14.7	09.2	11.8	08.8	-3.1	-1.3	02.4	02.9	07.2	
29	03.4	03.9	05.4	06.3	07.3	07.8	07.5	10.8	25.5	11.3	08.5	05.4	08.5	13.9	13.8	15.0	12.5	10.8	02.7	02.7	05.2	00.0	-0.9	01.3	07.9	
30 Q	02.4	05.8	09.4	06.0	06.5	06.8	07.5	07.0	07.5	08.9	09.9	10.7	13.3	16.4	16.8	19.0	19.0	17.3	11.9	05.7	03.0	01.7	01.1	01.9	09.0	
31																										
Mean	04.3	05.2	05.3	04.8	06.1	07.7	07.5	05.8	09.2	10.5	15.2	12.7	12.0	14.5	15.1	17.2	16.4	14.6	10.5	07.8	06.0	04.9	05.2	04.5	09.3	

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 15 Meanook

$z = 58,500 \gamma +$

April 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	672	665	688	642	637	638	629	458	523	575	543	508	543	606	611	620	618	617	623	632	640	652	676	667	612
2	662	662	643	661	667	611	637	606	627	633	475	458	538	541	558	582	591	620	620	622	637	658	658	630	609
3	600	595	598	600	621	622	621	576	583	600	610	596	557	603	610	608	603	612	625	622	624	632	634	632	608
4	634	641	654	637	639	643	629	615	609	606	592	563	559	592	593	592	602	602	598	595	606	619	623	636	612
5	635	637	616	616	617	613	618	619	618	611	603	603	580	563	558	545	561	578	574	588	600	605	616	619	598
6	637	640	641	637	638	639	636	620	606	583	594	575	571	604	604	604	599	597	597	604	620	624	627	636	614
7	622	646	646	700	687	662	646	631	613	598	590	555	542	556	520	507	553	583	605	613	624	622	616	613	606
8	607	609	609	608	608	622	527	547	562	482	535	611	610	583	599	611	611	611	611	611	629	618	620	617	594
9 D	617	617	617	617	616	621	639	630	609	516	203	565	584	441	506	392	511	613	627	622	635	644	664	664	574
10	670	665	617	613	616	613	621	621	619	613	559	477	555	591	616	617	617	619	620	621	621	620	621	627	610
11 Q	622	618	618	611	613	616	624	616	605	603	599	612	604	590	600	611	617	620	622	619	623	624	623	625	614
12	622	615	609	611	611	612	613	611	609	609	605	559	588	600	600	595	584	591	600	604	607	610	616	620	604
13	624	637	665	662	661	619	479	544	597	452	535	584	597	596	600	607	609	613	624	661	654	654	657	607	
14 D	659	640	618	613	613	605	602	603	602	556	365	419	349	398	484	559	592	611	623	635	633	645	659	664	573
15 D	640	649	657	698	484	495	533	475	680	680	775	732	784	980	473	495	608	613	624	658	640	627	616	610	634
16	618	619	633	635	637	618	613	608	608	606	611	605	603	606	604	609	609	610	610	611	621	632	646	647	617
17	659	633	613	612	613	611	617	612	610	607	608	600	572	539	592	606	605	608	605	605	606	611	610	607	607
18	610	612	616	615	613	609	606	604	543	436	406	498	557	588	613	333	604	617	609	610	607	613	602	612	572
19 Q	600	606	610	613	611	616	634	626	620	603	603	606	617	617	620	616	617	619	616	613	604	603	612	624	614
20 Q	613	605	604	603	608	608	605	598	598	597	596	597	595	599	603	597	585	588	600	603	599	603	612	612	601
21 Q	612	606	608	609	599	597	602	604	600	612	612	598	597	594	604	604	604	604	610	604	593	597	603	603	604
22	600	603	603	599	596	595	594	595	549	322	430	518	562	607	616	616	608	612	606	594	597	600	606	612	577
23 D	610	620	627	640	554	570	624	649	852	832	928	944	949	1021	933	722	940	673	640	745	835	776	595	309	733
24 D	058	331	389	338	552	558	597	744	711	775	766	529	473	344	394	501	592	684	664	668	725	701	671	673	560
25	692	677	686	688	665	581	640	640	640	637	636	630	636	627	627	630	627	625	633	640	645	649	657	651	644
26	645	640	645	640	656																				
27	613	605	604	603	608	616	606	596	585	586	588	586	584	584	581	584	584	588	588	588	593	591	591	604	594
28	613	620	610	596	607	608	606	584	569	565	584	571	549	536	528	507	509	537	554	582	598	606	600	588	576
29	593	581	582	581	584	588	580	500	399	535	555	484	548	576	580	584	586	588	576	576	593	588	580	588	564
30 Q	610	623	612	604	604	599	608	603	602	602	603	599	595	582	583	588	583	583	591	592	594	593	595	594	598
31																									
Mean	608	616	617	616	613	607	606	598	605	587	580	579	586	595	586	574	604	608	610	617	628	628	624	615	604

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16 Meanook

April 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	22 22	919	07 56	177	742	08 30	38.6	07 55	-105.8	144.4	02 09	733	07 55	202	531
2	06 03	830	02 55	341	489	10 28	44.2	07 10	01.2	43.0	21 47	700	10 48	408	292
3	06 37	754	12 18	656	98	15 09	20.2	21 04	-0.2	20.4	22 25	637	12 18	530	107
4	06 09	771	19 15	666	105	14 46	19.2	23 15	-0.8	20.0	05 47	664	12 03	529	135
5	00 29	771	18 17	668	103	16 53	25.8	19 33	-11.6	37.4	01 17	639	15 07	530	109
6	02 32	785	15 00	629	156	15 30	21.1	22 30	-3.6	24.7	05 40	668	12 05	541	127
7	05 58	1034	15 41	657	377	07 49	15.6	05 58	-11.7	27.3	03 52	746	15 44	495	251
8	06 58	822	09 35	477	345	06 42	39.1	21 00	03.4	35.7	06 13	633	06 49	414	219
9 D	22 16	829	15 04	177	652	10 13	126.4	15 05	-21.3	147.7	14 45	762	10 15	023	739
10	00 28	826	11 05	505	321	15 25	21.5	11 10	-10.7	32.2	01 30	700	11 17	419	281
11 Q	15 45	761	19 38	706	55	16 35	19.7	06 43	05.7	<u>14.0</u>	18 35	629	13 28	581	48
12	03 15	781	22 48	671	110	11 51	21.3	23 29	-0.9	22.2	23 22	635	11 38	521	114
13	05 03	884	09 32	406	478	06 50	42.0	09 56	-5.7	47.7	05 04	684	09 39	372	312
14 D	23 01	864	13 58	-166	1030	13 40	65.2	11 30	-27.2	92.4	14 01	730	12 20	193	537
15 D	01 59	1170	13 37	<u>-875</u>	<u>2045</u>	11 51	<u>170.7</u>	14 30	-65.8	236.5	13 43	<u>1563</u>	07 29	193	<u>1370</u>
16	02 18	794	19 05	706	88	14 35	18.3	23 25	00.1	18.2	04 20	670	15 01	585	85
17	00 38	777	13 07	661	116	16 36	20.4	22 45	01.9	18.5	00 42	685	13 16	518	167
18	13 37	776	08 55	545	231	09 57	23.0	21 54	01.5	21.5	02 05	630	10 18	312	318
19 Q	06 37	798	22 53	702	96	16 46	23.2	23 17	01.5	21.7	06 40	678	20 42	589	89
20 Q	13 15	771	00 06	712	59	15 28	17.2	22 40	02.6	14.6	00 00	619	16 35	581	38
21 Q	10 53	765	18 56	718	<u>47</u>	17 00	18.7	22 58	00.7	18.0	08 50	620	08 22	581	39
22	07 02	823	09 34	059	764	09 31	62.3	08 45	-8.6	70.9	14 07	627	09 28	318	309
23 D	22 32	<u>1329</u>	15 21	-569	1898	12 46	142.9	15 07	-111.3	<u>254.2</u>	13 07	1248	15 38	284	964
24 D	02 24	1155	10 46	-56	1211	11 26	69.3	02 44	-137.8	207.1	09 00	1029	00 44	<u>-184</u>	1213
25	01 15	1025	05 48	091	934	00 20	26.0	05 49	-11.5	37.5	00 29	723	05 40	513	210
26															
27	23 57	786	16 27	667	119	15 54	12.9	22 37	-1.3	14.2	23 55	635	15 10	579	56
28	01 47	824	16 15	676	148	15 33	19.7	20 55	-6.9	26.6	01 47	625	16 00	489	136
29	00 25	796	08 04	610	186	08 16	46.1	21 53	-2.6	48.7	00 46	612	08 18	158	454
30 Q	01 16	805	18 55	667	138	15 06	20.9	22 42	-1.0	21.9	01 43	635	14 35	576	59
31															
Mean		863		410	453		41.8		-18.2	60.0		730		409	321
No. days		29		29	29		29		29	29		29		29	29

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 17 Meanook

H = 12,000  $\gamma$  +

May 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	747	748	751	760	756	775	744	719	744	744	753	748	740	731	731	722	702	683	691	698	722	729	731	776	735
2	782	821	806	758	706	710	738	741	745	745	741	741	745	741	730	727	719	716	716	730	736	743	749	752	743
3	760	748	775	786	836	818	805	787	809	827	822	804	783	742	724	735	724	705	696	696	726	718	698	698	759
4	711	716	716	702	749	789	760	738	722	647	711	738	722	729	720	717	718	716	709	716	718	727	722	718	722
5	736	759	748	750	770	777	765	768	768	772	772	770	768	768	765	761	759	757	752	759	765	765	728	739	760
6 D	764	782	820	831	813	804	640	538	556	556	587	638	764	798	800	800	796	782	773	769	758	758	718	780	734
7	803	790	805	803	850	817	770	761	828	841	739	732	772	790	803	783	768	783	768	765	763	752	745	741	782
8	753	758	776	760	756	391	280	808	758	764	782	631	589	571	731	769	758	742	751	769	778	780	837	878	715
9 D	915	926	875	849	740	673	809	691	576	398	476	458	236	169	150	238	542	547	738	818	835	871	938	824	637
10	804	804	742	769	800	800	731	751	722	684	707	744	742	747	749	740	742	738	738	738	751	762	769	769	752
11 D	758	796	869	886	875	680	542	411	465	730	758	714	709	682	693	693	707	727	738	771	769	759	764	796	720
12	796	804	787	737	758	760	764	760	778	680	704	747	738	704	740	742	744	738	744	747	756	764	767	787	752
13	802	800	846	824	833	913	878	846	802	813	809	802	802	809	771	754	741	729	733	738	749	753	760	777	795
14 Q	778	769	769	762	743	760	760	760	760	760	762	767	771	767	760	742	729	724	724	731	742	742	756	759	754
15 Q	780	767	758	756	749	760	760	764	760	758	736	758	771	778	780	767	751	735	725	740	742	760	787	761	758
16	774	774	779	770	754	788	803	797	755	761	757	710	734	752	785	777	765	748	734	739	745	745	743	765	761
17	765	725	734	821	812	770	774	790	783	787	781	779	765	677	714	721	721	743	761	741	739	750	745	754	756
18	765	790	805	805	819	779	779	721	678	552	548	504	610	710	751	717	712	750	750	748	750	763	765	770	723
19 Q	770	757	743	763	783	778	774	768	765	752	759	781	783	783	770	761	737	739	739	737	743	748	752	765	760
20	768	770	772	765	770	777	779	777	788	792	792	797	792	792	792	787	781	772	757	760	777	848	892	899	792
21	908	980	916	771	766	844	731	560	267	367	400	551	571	593	576	693	718	759	740	744	806	926	758	780	696
22 D	801	822	751	937	644	571	413	678	333	149	123	154	249	651	782	735	722	680	758	778	851	1000	1015	951	648
23 D	933	971	884	782	771	778	766	778	549	651	518	527	693	682	784	807	769	769	762	760	744	738	740	802	748
24	793	826	846	829	800	707	755	769	773	715	684	655	706	689	611	639	689	696	769	771	762	760	746	775	740
25	772	763	814	814	799	783	790	783	779	766	783	779	774	772	764	763	750	747	741	739	759	785	814	836	778
26	831	804	811	844	875	886	902	897	879	879	893	964	953	875	844	813	809	833	813	806	804	808	817	826	853
27 Q	817	791	808	820	753	742	768	744	717	717	737	753	768	766	742	709	742	746	728	766	771	788	795	808	762
28	795	842	848	839	815	837	808	751	722	724	760	752	740	722	686	684	722	718	742	768	797	793	791	806	769
29	813	826	802	771	802	775	803	673	664	737	744	728	742	748	760	762	746	731	731	762	782	773	784	804	761
30 Q	794	790	785	781	767	759	772	756	763	752	752	767	774	767	752	759	743	741	750	750	774	785	805	847	770
31	843	852	874	858	943	919	847	661	475	670	672	648	779	805	790	781	752	745	750	761	745	763	763	783	770
Mean	795	802	800	797	787	765	742	734	693	693	696	698	712	720	727	729	735	734	743	752	763	779	780	791	749



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 18 Meanook

D = 25° E + ...'

May 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	06.1	07.4	08.1	08.7	08.4	16.3	20.9	21.2	15.3	13.5	12.5	12.5	15.9	19.0	23.8	24.8	23.8	16.1	09.7	02.7	00.8	01.5	01.5	01.4	12.2
2	02.3	05.6	03.9	07.3	07.5	07.3	09.7	15.9	10.4	10.4	09.4	11.8	14.2	15.4	19.5	19.7	17.1	13.5	10.6	06.8	04.9	03.2	02.7	02.5	09.6
3	02.7	04.1	05.3	07.3	08.0	10.1	08.7	09.7	10.4	10.6	09.9	10.6	14.0	16.4	19.0	20.0	18.5	14.7	10.6	06.3	03.7	01.0	01.0	03.2	09.4
4	04.4	04.6	05.6	05.9	09.4	12.3	10.1	08.2	07.0	12.3	16.9	11.8	17.1	16.9	17.3	15.4	13.0	13.3	11.8	08.0	02.7	00.1	-0.2	01.7	09.4
5	03.2	04.9	06.3	06.3	09.9	08.9	09.9	09.7	10.6	09.7	10.4	12.3	14.9	15.9	16.9	16.9	17.6	14.2	12.8	11.1	11.8	07.5	04.4	02.5	10.4
6 D	04.4	05.6	14.7	15.4	09.4	05.8	00.8	01.3	06.3	11.8	10.1	12.3	21.9	20.5	23.6	21.9	21.4	17.8	14.5	10.1	09.7	08.5	08.9	01.7	11.6
7	05.8	04.4	04.4	04.6	02.2	14.0	17.3	18.3	19.5	19.0	19.3	17.3	15.3	15.5	29.6	29.1	24.8	19.7	17.8	11.6	07.0	04.6	04.6	09.2	14.0
8	11.8	16.4	20.5	22.6	17.8	11.3	25.3	03.7	15.4	14.0	13.0	05.8	16.6	18.8	22.6	24.4	17.8	12.8	16.8	05.6	03.2	05.1	04.4	07.5	13.9
9 D	10.1	06.5	08.5	16.4	12.3	08.5	04.9	14.0	23.6	-0.9	00.7	11.8	18.3	-21.3	02.7	16.6	18.5	11.1	10.1	17.1	10.6	10.9	14.7	04.4	09.6
10	05.1	04.1	08.0	07.3	07.7	15.9	06.3	12.3	10.1	09.4	03.9	02.5	15.2	20.7	24.3	22.4	19.3	13.0	08.2	03.7	03.2	03.9	04.4	03.4	09.8
11 D	07.3	09.2	15.2	11.1	06.3	14.2	09.4	-8.8	-1.1	14.7	15.2	17.3	20.0	24.1	26.5	25.0	19.7	18.8	08.7	07.0	05.6	06.5	08.2	10.1	12.1
12	10.4	10.6	11.3	08.7	11.8	10.9	08.0	10.6	10.6	07.3	10.6	11.8	14.0	15.9	19.0	17.1	15.2	11.6	05.3	04.1	00.5	02.7	05.3	06.1	10.0
13	06.5	08.2	09.9	14.7	09.7	09.7	09.7	09.2	12.1	08.9	09.2	11.1	14.7	16.9	19.0	18.1	15.4	11.3	06.3	03.9	01.7	02.7	05.1	06.5	10.0
14 Q	07.0	08.2	09.2	08.9	09.7	07.5	08.0	09.4	09.7	09.7	10.9	12.3	16.9	18.5	19.3	19.0	15.7	11.3	07.3	03.7	03.2	02.7	04.6	07.0	10.0
15 Q	07.5	08.2	08.5	08.0	08.2	07.7	09.2	08.5	09.4	09.4	06.3	11.3	15.2	20.2	20.0	19.0	18.1	14.2	09.9	05.1	02.2	02.7	03.2	04.1	09.8
16	06.8	08.2	09.2	09.4	09.9	11.1	11.8	12.5	08.7	05.8	05.8	-2.1	10.4	20.9	20.9	19.5	17.6	14.0	10.6	00.8	01.0	02.0	03.2	06.1	09.3
17	05.3	08.0	08.5	07.5	14.7	21.9	08.7	07.0	07.7	08.5	07.7	09.7	13.3	14.2	21.9	16.9	16.1	14.2	09.4	04.9	03.4	03.2	03.4	04.9	10.0
18	06.3	09.9	18.8	16.4	13.5	09.9	08.9	06.8	10.9	06.8	14.2	14.3	07.5	22.6	18.8	16.6	18.8	15.2	12.3	06.8	05.1	05.1	03.7	05.8	11.5
19 Q	06.8	08.5	10.4	10.4	08.5	08.9	09.2	08.2	08.2	07.3	09.9	11.1	15.9	17.1	18.8	18.8	16.9	14.7	12.8	09.4	06.8	05.6	04.4	05.8	10.6
20	07.3	08.0	08.7	08.9	09.4	07.5	10.4	10.4	09.2	08.7	07.7	09.9	14.2	17.6	20.0	21.9	18.5	14.5	11.6	03.4	01.0	02.5	09.2	02.2	10.1
21	00.3	10.9	20.7	04.1	05.8	14.0	12.3	02.9	-17.2	-22.0	17.1	23.1	16.4	25.0	28.4	35.8	26.7	24.3	11.1	07.3	06.5	05.6	-2.1	01.3	10.8
22 D	02.9	02.9	04.9	05.8	42.3	-14.3	-12.5	00.3	20.2	11.1	10.4	-6.9	-2.8	12.5	22.4	22.1	22.4	15.4	16.9	12.3	10.6	08.5	04.6	10.1	09.3
23 D	05.1	05.1	09.9	09.9	09.2	08.7	10.1	17.8	03.9	-0.4	00.1	05.6	00.1	12.3	23.6	24.1	16.1	14.0	20.0	11.3	07.3	08.2	15.4	10.4	10.3
24	08.0	06.5	14.7	15.2	-8.4	00.8	10.6	05.1	04.9	05.6	05.1	05.1	14.7	16.6	10.6	13.0	12.1	14.0	13.7	09.2	02.7	01.7	03.7	03.7	07.9
25	05.1	02.9	10.6	09.9	10.1	10.4	09.9	14.2	14.2	08.0	09.2	11.8	14.2	15.4	18.1	19.0	19.3	17.3	15.2	07.5	00.8	00.3	00.5	00.8	10.2
26	03.2	04.6	06.5	08.5	06.1	04.1	07.3	07.3	05.8	02.2	03.4	08.0	12.8	10.9	17.6	21.7	20.2	16.4	10.6	08.2	05.6	04.4	04.6	05.3	08.6
27 Q	05.8	08.2	10.6	10.6	11.1	09.4	08.2	02.2	03.9	03.2	04.6	13.0	20.7	23.1	24.5	17.3	13.5	09.2	01.7	03.2	03.4	05.8	06.5	07.7	09.5
28	09.9	06.8	12.5	10.6	08.0	07.0	04.6	05.3	04.6	07.5	06.1	08.7	10.6	17.3	12.8	15.4	14.0	13.3	07.3	06.8	00.8	-0.4	-0.2	02.7	08.0
29	05.6	07.3	08.5	08.0	07.0	17.6	11.6	03.2	-5.2	06.5	05.8	09.2	14.7	20.0	19.0	20.7	21.4	15.6	14.7	05.8	01.5	00.1	-2.6	-0.2	09.0
30 Q	02.7	03.9	07.3	08.0	13.3	15.2	15.2	11.3	12.8	09.9	12.5	13.7	17.6	20.7	18.3	20.7	21.4	05.1	01.0	01.0	-3.3	-3.3	-3.8	-1.4	09.2
31	-0.2	-2.3	00.5	03.4	-0.9	05.1	04.4	02.2	03.9	-1.6	02.5	-3.3	14.0	17.6	20.7	21.4	20.2	15.2	06.8	00.1	-4.5	-5.7	-4.5	-1.6	04.7
Mean	05.7	06.7	09.7	09.7	09.6	09.6	09.3	08.4	08.6	07.3	09.0	09.8	14.1	16.7	20.0	20.4	18.4	14.4	10.8	06.6	03.9	03.5	03.8	04.4	10.0

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 19 Meanook

$Z = 58,500 \gamma +$

May 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	594	596	597	599	597	603	576	559	581	565	584	596	593	590	591	590	586	577	571	585	612	625	623	616	592	
2	641	675	675	652	620	609	645	635	616	578	576	583	596	588	583	597	603	596	595	596	609	607	609	616	612	
3	624	606	611	635	636	652	636	629	632	622	623	629	634	625	599	578	590	590	608	633	638	629	642	636	622	
4	678	670	662	642	642	633	618	613	602	616	613	608	610	600	602	608	610	600	595	594	602	605	605	597	618	
5	597	610	616	628	642	629	618	610	608	607	610	612	613	612	610	610	607	602	595	595	610	620	612	613	612	
6 D	626	650	710	678	662	660	454	446	562	646	561	544	608	626	616	613	616	610	602	602	610	616	646	649	609	
7	649	642	646	662	548	561	492	511	545	589	623	600	602	616	641	634	613	615	626	633	623	613	616	618	605	
8	642	650	646	646	634	642	633	602	602	616	610	602	594	590	610	629	618	618	616	616	613	616	613	616	620	
9 D	616	613	655	618	638	633	646	586	484	450	411	367	310	310	414	529	544	573	612	707	718	725	686	638	562	
10	605	626	638	638	618	642	597	576	568	576	558	545	594	616	608	616	618	616	615	603	603	618	620	626	606	
11 D	625	646	710	736	574	432	451	458	492	586	620	586	595	576	595	584	594	613	613	626	634	629	628	641	594	
12	657	649	646	634	608	608	597	603	600	553	540	582	610	576	600	602	600	612	613	613	625	628	629	620	609	
13	613	668	688	683	662	662	644	634	633	618	616	616	626	629	618	597	602	610	607	607	615	620	620	613	629	
14 Q	610	608	610	613	616	613	615	610	613	610	613	618	627	610	600	600	603	608	600	602	605	610	612	608	610	
15 Q	608	607	607	608	602	597	599	600	600	594	569	574	600	600	597	594	595	594	600	608	610	608	621	618	600	
16	621	608	613	616	616	626	626	600	602	597	558	587	550	566	605	615	613	603	599	599	595	591	597	602	600	
17	600	618	638	629	633	634	613	616	612	602	589	595	600	497	524	529	552	578	595	589	603	607	625	628	596	
18	613	638	650	688	678	646	634	526	352	357	388	430	492	561	576	576	561	612	613	605	607	649	644	638	572	
19 Q	646	650	659	654	608	613	613	613	594	548	537	591	602	605	602	597	595	586	581	584	589	594	605	608	603	
20	610	616	616	613	626	613	608	587	607	623	613	610	616	603	600	607	605	597	597	591	597	616	678	706	615	
21	706	670	646	621	638	652	544	638	513	613	548	526	605	430	362	544	589	605	587	618	678	686	629	633	595	
22 D	638	652	626	629	634	625	612	597	595	584	508	341	393	429	573	589	589	613	621	629	646	654	678	702	590	
23 D	678	654	654	642	662	646	616	592	597	586	519	532	589	631	634	650	662	649	649	644	646	702	678	655	632	
24	660	662	662	659	644	641	597	600	576	544	544	451	591	560	508	556	589	608	642	644	634	641	642	651	609	
25	655	654	660	667	621	621	620	595	586	605	603	610	616	613	612	608	608	603	600	595	587	586	592	613	614	
26	633	633	652	660	652	656	646	628	600	592	560	560	578	589	618	613	602	600	631	634	644	625	649	641	621	
27 Q	639	638	649	659	659	654	646	636	628	607	597	595	594	594	581	582	589	602	644	644	654	657	650	654	627	
28	654	678	670	648	659	662	636	597	574	573	592	599	573	565	552	573	586	616	649	646	646	654	621	626	619	
29	641	657	647	623	634	625	608	589	521	527	532	540	548	571	586	616	615	612	608	608	608	600	615	638	599	
30 Q	650	650	655	628	639	639	616	623	628	607	578	595	594	594	590	590	576	561	574	597	597	602	616	613	609	
31	616	613	616	631	694	662	628	497	484	613	623	537	561	634	629	623	602	600	602	599	618	628	638	641	608	
Mean	634	639	646	643	632	626	603	587	574	581	568	560	578	574	582	595	598	603	608	614	622	628	630	631	607	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20 Meanook

May 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	05 47	800	17 52	666	134	06 15	33.7	20 09	-5.8	39.5	21 15	636	06 45	498	138
2	01 36	854	17 23	697	157	14 52	21.4	02 47	00.3	21.1	01 17	701	10 31	561	140
3	10 30	857	18 20	687	170	16 08	22.6	21 49	-1.4	24.0	04 05	664	16 13	556	108
4	05 18	854	09 36	620	234	09 21	25.5	21 32	-1.6	27.1	02 44	694	08 00	584	110
5	12 40	781	22 38	719	<u>64</u>	16 46	20.0	23 13	-1.6	21.6	04 46	743	23 17	594	149
6 D	22 30	998	06 41	365	633	22 26	62.2	06 40	-42.9	105.1	03 14	743	06 30	241	502
7	04 07	910	10 50	661	249	14 11	32.0	04 15	-4.5	36.5	05 19	717	06 23	461	256
8	23 55	906	06 08	017	889	06 13	65.8	05 39	-14.3	80.1	06 14	650	13 31	571	79
9 D	22 23	1040	15 25	007	1033	14 29	<u>84.3</u>	13 16	<u>-88.5</u>	<u>172.8</u>	22 11	743	13 00	254	489
10	01 23	840	09 27	671	169	15 04	28.6	11 17	-8.1	36.7	23 53	678	11 26	516	162
11 D	02 43	946	08 56	<u>005</u>	941	06 14	36.3	09 00	-41.7	78.0	03 45	<u>756</u>	08 42	273	483
12	01 31	835	09 50	638	197	14 42	21.4	20 09	-1.1	22.5	00 27	670	10 33	501	169
13	02 59	964	17 52	680	284	08 03	22.4	07 38	-8.8	31.2	03 46	738	14 40	594	144
14 Q	23 58	782	15 21	709	73	14 52	21.9	21 15	00.3	21.6	12 17	641	17 16	592	<u>49</u>
15 Q	22 42	802	15 15	709	93	14 11	22.9	20 05	-0.9	23.8	22 30	638	11 05	548	90
16	07 06	814	11 12	641	173	13 50	28.4	11 24	-7.4	35.8	06 07	633	11 11	393	240
17	03 49	861	13 36	601	260	04 33	26.0	22 00	02.7	23.3	02 55	654	13 37	417	237
18	04 00	850	11 06	388	462	11 32	39.9	08 52	-16.5	56.4	04 35	723	08 23	325	398
19 Q	12 06	799	18 50	730	69	15 32	20.2	09 47	03.2	<u>17.0</u>	03 15	662	08 52	503	159
20	22 51	954	18 20	748	206	16 23	25.3	21 02	-9.8	35.1	22 39	743	06 48	576	167
21	02 11	1068	10 19	092	976	14 09	53.1	08 53	-57.8	110.9	21 13	<u>756</u>	08 32	<u>155</u>	<u>601</u>
22 D	03 49	<u>1144</u>	09 04	056	<u>1088</u>	07 45	58.4	11 54	-55.4	113.8	23 35	718	15 29	268	450
23 D	01 10	1000	11 17	487	513	08 20	30.3	01 22	-51.3	81.6	21 34	714	10 14	492	222
24	04 25	846	11 18	585	261	02 55	40.6	09 55	-33.3	73.9	18 16	701	11 23	471	230
25	23 21	858	19 52	723	135	15 09	21.9	00 25	-4.5	26.4	02 18	678	08 00	545	133
26	12 11	1008	20 15	786	222	15 31	24.1	09 18	-0.7	24.8	03 00	670	10 31	536	134
27 Q	03 35	835	15 06	698	137	13 56	29.3	07 23	-3.8	33.1	04 00	662	14 28	561	101
28	03 21	864	09 00	664	200	14 03	21.4	07 45	-5.2	26.6	06 57	710	14 32	529	181
29	01 03	857	08 03	591	266	16 30	24.3	08 14	-14.3	38.6	01 05	670	08 30	467	203
30 Q	23 35	883	17 55	723	160	17 43	27.2	00 05	-02.1	29.3	01 37	659	17 50	555	104
31	03 25	967	08 29	335	632	15 26	25.5	08 30	-23.0	48.5	05 01	722	08 06	202	520
Mean		896		539	357		32.8		-16.1	48.9		693		463	230
No. days		31		31	31		31		31	31		31		31	31

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 21 Meanook

H = 12,000  $\gamma$  +

June 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean	
1	800	811	794	816	836	798	776	774	787	798	798	789	800	780	780	747	758	838	865	865	860	851	887	900	813	
2 Q	840	831	785	771	747	716	811	891	860	840	858	842	840	796	805	858	785	823	803	776	778	756	760	760	806	
3 Q	701	725	711	709	742	778	809	905	947	982	889	733	755	783	729	760	800	760	755	720	716	729	829	787		
4	849	847	849	859	747	638	616	689	698	718	725	700	745	789	789	756	731	731	751	734	694	709	740	782	745	
5	742	758	738	749	720	754	789	782	777	764	760	764	809	851	860	847	871	867	856	834	767	738	731	734	786	
6	723	731	716	723	676	694	711	711	723	786	811	789	711	738	769	782	851	851	809	845	854	851	816	758	768	
7 D	757	750	724	761	750	752	732	707	743	746	710	808	957	928	934	890	895	877	877	894	854	888	894	874	821	
8 D	895	868	850	877	874	934	963	1008	1052	994	912	850	890	895	899	899	906	906	921	934	883	910	899	906	914	
9	992	986	972	897	728	683	677	710	719	721	668	688	712	610	568	639	690	699	690	712	750	806	828	830	749	
10	761	712	695	668	739	750	786	786	717	706	712	701	661	650	668	652	655	677	684	677	695	679	686	692	700	
11	661	695	684	667	697	717	795	1046	1059	779	431	635	630	677	695	712	699	688	701	695	697	713	710	717	717	
12 D	717	715	713	699	701	721	732	717	712	701	551	399	402	577	533	521	591	606	639	675	690	719	777	795	650	
13	785	829	915	933	838	740	729	696	640	463	438	700	525	662	700	713	702	713	713	698	691	691	693	718	705	
14	729	720	673	673	700	718	711	689	451	707	718	720	722	711	696	700	691	696	713	700	700	702	693	696	693	
15	707	713	704	700	702	760	809	826	815	791	786	827	764	729	735	764	846	871	873	871	891	878	815	815	791	
16	853	889	875	871	869	866	886	860	880	791	860	680	717	746	715	711	746	844	829	772	764	757	765	804	810	
17	773	829	824	869	851	818	789	722	685	679	708	787	884	913	873	862	851	855	878	891	887	887	847	825	824	
18	762	725	718	753	740	784	798	789	800	798	840	969	918	869	784	764	800	815	873	838	807	833	900	918	816	
19 D	922	884	884	889	871	913	895	895	933	922	891	918	969	984	1015	1013	989	1013	1053	1033	900	924	931	902	939	
20	833	836	853	840	802	764	780	798	775	727	665	689	700	749	767	758	762	762	758	793	802	793	802	802	775	
21	775	765	786	771	764	764	764	766	784	773	777	804	768	760	771	766	764	753	740	738	727	733	744	746	763	
22	843	850	879	857	803	797	757	739	801	832	797	792	797	826	837	814	779	774	768	786	821	848	899	923	817	
23 Q	908	890	879	870	801	808	819	752	757	768	783	797	797	810	806	801	801	792	774	774	770	776	784	790	804	
24 Q	800	813	804	804	791	807	798	800	795	800	811	818	820	820	813	802	793	775	764	760	775	798	853	864	803	
25	935	915	897	859	831	838	822	815	675	620	809	811	815	813	793	764	731	727	762	773	771	775	809	815	799	
26	857	863	857	832	830	819	797	782	797	797	774	761	812	792	786	730	748	779	759	774	786	792	817	835	799	
27	818	820	809	805	822	840	844	722	498	307	733	807	776	789	818	827	791	791	778	773	756	762	786	811	762	
28	822	836	818	818	844	813	818	811	813	813	818	816	825	836	842	827	818	807	800	807	811	769	805	844	818	
29 D	867	873	884	907	962	978	858	840	747	623	658	729	658	545	545	503	483	640	747	809	858	922	847	789	761	
30 Q	755	768	772	788	808	797	797	788	779	788	788	795	790	775	761	779	804	792	786	784	781	764	777	790	784	
31																										
Mean	806	808	802	801	786	786	789	794	774	751	750	769	765	772	771	764	770	785	791	792	785	791	801	809	784	

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 22 Meanook

D = 25° E + ...'

June 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	01.0	03.9	05.8	09.2	08.0	13.5	10.9	07.0	05.6	06.1	07.0	12.8	18.3	19.7	21.7	19.7	16.9	12.1	04.1	05.1	02.0	02.0	04.9	06.8	09.3	
2 Q	08.2	10.4	10.9	09.9	03.4	05.1	06.1	10.4	07.0	05.8	08.5	10.9	15.2	16.4	17.1	19.3	19.7	19.3	15.4	08.2	08.2	10.4	03.7	-0.9	10.4	
3 Q	05.1	04.9	06.5	06.8	10.9	15.9	13.5	06.8	01.3	-0.9	02.9	03.9	00.8	-3.3	-1.9	02.2	-2.6	01.5	02.9	06.3	06.8	01.0	-2.6	-8.8	03.3	
4	-13.1	-8.8	-10.7	-11.0	03.4	17.8	14.7	11.3	14.9	15.2	20.7	23.6	22.4	17.6	20.2	14.2	13.0	08.2	11.6	11.3	16.4	20.7	18.8	18.1	11.3	
5	12.8	09.9	11.3	11.8	08.7	06.3	04.9	07.0	07.0	05.1	06.8	08.2	08.7	11.6	14.9	15.9	14.0	08.7	00.8	07.0	10.9	14.2	11.8	12.8	09.6	
6	10.6	14.0	16.4	17.8	13.5	09.2	05.8	03.7	03.7	08.7	-1.2	-14.8	14.0	18.3	20.0	16.9	14.2	12.1	07.5	05.1	02.9	02.2	02.0	01.9	08.5	
7 D	07.0	08.5	08.9	07.3	10.4	13.5	14.2	14.5	08.7	13.0	17.6	15.9	17.6	15.2	12.3	11.1	19.5	18.8	08.7	08.7	04.4	01.5	05.6	12.8	11.5	
8 D	09.9	08.2	06.3	03.9	13.5	21.2	18.5	21.2	20.0	13.1	22.1	22.1	15.4	21.7	10.4	12.1	09.4	10.1	13.0	11.6	08.5	09.2	01.9	08.7	13.0	
9	08.0	08.0	06.1	06.3	05.8	05.3	03.4	01.0	07.0	18.8	15.4	11.3	11.6	11.3	12.8	10.6	10.6	13.5	08.5	03.4	00.8	03.4	03.2	04.1	07.9	
10	04.6	01.5	01.0	-1.4	03.4	08.2	11.1	13.3	05.8	01.3	07.5	08.5	08.7	14.9	16.1	14.0	09.7	08.0	08.9	11.6	15.4	10.6	04.6	-6.7	07.5	
11	-13.6	-15.5	-11.5	01.5	25.0	18.3	04.4	04.9	12.1	08.7	-1.1	08.2	15.2	16.4	20.7	18.3	15.2	13.7	08.5	06.8	02.0	-1.6	-1.4	02.0	06.6	
12 D	05.3	07.0	08.5	06.3	09.4	09.4	03.2	08.2	07.0	03.2	-7.6	-1.1	09.4	11.6	11.8	11.6	05.6	06.8	01.5	-3.8	-0.4	01.5	08.2	06.1	05.4	
13	04.4	02.5	00.1	-3.5	09.2	06.8	11.8	06.5	03.9	-2.4	-10.0	13.0	08.5	17.1	20.7	23.1	20.7	18.8	10.6	06.3	02.7	00.1	-1.1	-0.7	07.0	
14	00.5	01.5	03.2	02.9	04.9	09.4	08.9	11.8	03.6	09.2	08.5	09.4	12.8	12.1	16.1	18.8	19.7	15.9	13.5	04.4	04.4	04.1	03.7	02.0	08.4	
15	03.9	04.5	06.3	07.5	09.9	10.6	15.9	22.6	16.2	08.0	05.3	07.0	10.4	13.3	16.4	15.4	15.7	10.4	05.1	04.6	06.3	05.8	03.2	04.4	09.5	
16	06.3	06.8	06.8	06.8	04.9	03.9	04.4	06.5	12.3	06.1	-12.7	10.6	10.6	16.6	19.3	22.6	19.3	19.7	12.5	08.7	06.1	06.3	-0.2	00.5	08.5	
17	10.4	15.4	15.9	10.4	05.6	-3.5	03.4	04.9	03.9	03.9	04.1	09.2	16.4	19.7	23.1	26.0	26.9	20.0	14.9	08.2	03.4	01.0	-1.4	-3.3	09.9	
18	-3.3	-1.4	-3.1	00.8	-0.9	03.4	01.5	-0.2	02.7	-2.8	-3.1	04.9	11.8	16.1	16.6	19.7	20.7	20.7	14.7	04.4	06.8	00.8	-1.4	-2.1	05.3	
19 D	-1.1	01.0	03.7	04.6	13.0	22.4	37.0	33.2	20.2	07.0	07.0	13.7	03.9	08.5	11.6	15.9	14.0	15.9	20.7	24.1	26.5	21.4	32.5	39.2	16.5	
20	35.1	26.7	19.0	11.1	20.7	14.2	04.6	00.1	00.1	01.3	03.2	04.4	06.3	07.0	11.6	12.3	14.2	14.0	14.2	11.1	08.7	03.2	-0.9	-2.1	10.0	
21	04.1	08.2	06.1	04.8	13.5	16.4	19.3	21.9	24.8	15.7	05.1	02.5	08.2	14.0	16.6	20.0	20.2	17.3	13.7	07.0	03.2	-3.8	-2.1	-0.9	10.7	
22	-1.4	02.0	06.8	02.2	02.9	02.9	03.2	02.5	02.7	02.7	04.1	06.3	07.0	11.1	13.5	13.5	16.1	13.3	15.4	12.3	01.5	-4.0	-2.1	01.5	05.7	
23 Q	03.4	05.6	08.2	10.6	05.8	05.3	05.8	10.4	08.9	05.6	06.8	08.5	09.4	13.5	15.4	16.1	14.9	12.5	08.1	05.3	02.2	00.1	00.1	01.3	07.7	
24 Q	01.7	03.7	05.3	04.6	05.3	06.5	06.8	05.8	05.8	06.3	06.5	08.0	11.6	11.8	14.2	16.4	15.4	12.8	07.5	01.3	-1.6	-3.3	-2.8	-2.6	06.1	
25	00.8	01.5	01.7	01.5	03.4	04.4	01.7	03.7	03.4	08.7	09.7	11.1	14.7	16.4	17.3	20.0	19.0	12.1	06.1	01.3	02.0	00.1	01.5	03.2	06.9	
26	04.9	06.5	09.4	04.8	08.0	05.8	06.3	05.6	09.4	08.2	07.5	07.0	17.8	17.8	14.0	17.8	15.9	15.9	10.6	06.8	02.7	00.8	01.5	04.6	08.7	
27	07.7	06.5	05.8	04.6	05.1	07.7	13.3	23.6	11.3	-5.0	04.4	07.7	09.2	18.1	21.4	22.9	20.7	18.5	12.5	18.3	00.8	-8.8	-5.7	-6.4	08.9	
28	-1.1	00.5	01.0	02.2	01.5	04.5	06.3	11.8	11.3	06.8	06.1	08.7	14.2	17.8	21.2	21.4	21.2	20.0	13.7	05.3	01.0	-1.6	-4.7	-5.5	07.6	
29 D	-2.8	-3.1	-2.8	-3.3	-1.4	-0.2	00.5	01.5	02.0	02.7	03.4	09.9	16.6	30.3	11.1	12.1	12.3	15.7	13.5	17.8	20.7	15.4	-2.8	-6.4	06.8	
30 Q	01.0	02.8	01.6	04.4	06.3	10.1	08.0	06.3	04.6	04.6	05.8	06.3	06.3	10.4	14.2	19.0	19.3	15.4	08.2	07.0	02.2	-2.3	-0.4	02.0	06.8	
31																										
Mean	04.0	04.8	05.2	04.8	07.8	09.1	09.0	09.6	08.2	06.2	05.3	08.6	11.8	14.8	15.7	16.6	15.7	14.1	10.2	07.8	05.9	03.7	02.6	02.9	08.5	

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 23 Meanook

$z = 58,500 \gamma +$

June 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	653	663	653	671	679	645	609	590	601	613	635	640	630	642	658	647	642	647	650	635	630	638	663	640	
2 Q	663	650	653	648	655	653	660	663	660	658	647	637	630	648	660	658	650	642	637	624	624	638	647	648	648
3 Q	655	651	651	660	663	656	653	643	638	638	632	635	635	635	619	629	625	617	627	651	651	642	645	658	642
4	651	653	658	656	648	642	634	625	647	656	656	642	647	651	663	658	656	642	640	633	619	637	648	658	647
5	658	661	647	647	645	643	629	640	642	630	642	651	651	640	630	619	614	601	603	621	624	619	625	627	634
6	638	642	653	660	622	587	590	548	509	480	463	501	530	556	562	562	585	595	613	622	603	606	624	635	583
7 D	655	664	654	663	658	642	635	643	647	647	643	630	655	642	638	614	603	572	569	572	590	614	625	635	630
8 D	635	642	651	643	655	651	647	638	650	647	629	616	622	633	630	598	587	593	603	617	642	663	669	648	634
9	651	653	661	661	656	642	619	601	595	596	577	540	491	463	520	616	647	647	637	616	583	585	619	638	605
10	645	650	642	629	635	642	621	622	596	577	588	604	611	588	593	591	611	619	627	617	609	619	606	603	614
11	619	590	587	609	635	637	651	648	601	551	507	530	512	561	595	625	617	617	617	611	611	612	621	634	600
12 D	635	642	643	643	642	635	638	637	634	622	520	428	491	536	523	447	476	543	588	603	643	682	736	710	592
13	716	757	765	752	642	561	522	476	423	355	355	577	557	587	629	637	632	640	630	629	622	617	606	625	596
14	625	651	619	609	622	669	656	609	497	593	645	643	650	630	606	609	622	637	627	624	637	638	638	629	624
15	625	627	642	643	645	655	651	643	619	603	608	572	554	499	528	525	569	609	627	632	642	655	658	653	612
16	625	591	611	630	645	672	651	658	643	627	625	633	601	522	574	622	625	629	630	621	629	651	638	653	625
17	668	653	647	637	661	655	655	656	642	632	611	585	567	579	604	588	587	606	625	622	616	632	642	622	625
18	655	651	645	653	655	655	660	642	561	539	583	609	596	590	582	585	590	577	561	574	579	616	622	651	609
19 D	638	634	638	655	645	642	658	648	642	627	645	655	622	566	496	541	579	549	541	536	579	601	601	645	608
20	658	666	642	638	638	637	634	600	587	616	621	609	590	587	609	637	619	619	619	625	645	647	600	582	622
21	590	590	593	613	635	660	658	663	655	643	638	622	617	621	640	645	629	622	638	638	655	668	647	624	634
22	609	635	655	658	661	663	651	648	647	634	642	651	625	622	638	637	629	630	634	631	650	655	638	621	640
23 Q	619	635	621	635	625	637	622	546	583	578	598	619	622	635	638	629	625	622	621	619	627	625	625	625	618
24 Q	625	622	625	627	625	619	624	621	616	619	642	645	645	645	634	621	619	614	617	609	609	606	619	634	624
25	655	661	643	658	679	671	655	643	528	580	634	643	637	640	638	622	606	591	600	609	606	619	627	651	629
26	671	697	692	658	658	642	653	630	611	562	546	598	559	491	489	536	570	601	624	643	645	648	666	615	
27	684	653	629	640	645	651	637	525	486	546	522	616	578	609	627	633	622	614	633	648	650	643	647	615	
28	642	637	627	630	645	640	642	624	595	637	638	638	637	627	630	622	614	611	609	608	609	603	614	622	625
29 D	638	642	666	695	671	668	647	627	557	460	441	452	392	287	269	279	374	544	671	723	760	797	700	661	568
30 Q	651	651	645	642	648	639	634	625	600	604	627	638	638	609	608	611	625	619	613	609	627	637	638	642	628
31																									
Mean	645	647	645	649	648	644	636	620	598	594	592	600	594	587	591	594	601	608	616	620	627	637	637	640	619

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24 Meanook

June 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			25° E +		25° E +			58,500 $\gamma$ +		58,500 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1	22 18	934	14 44	723	211	14 25	24.5	20 58	00.3	24.2	04 30	687	07 59	570	117
2 Q	07 05	911	04 30	672	239	16 17	24.8	23 25	-4.0	28.8	08 03	676	20 02	<u>606</u>	70
3 Q	09 45	1002	15 19	674	328	05 16	18.3	23 45	-11.0	29.3	03 20	674	17 55	<u>606</u>	68
4	13 58	896	06 42	576	320	11 45	25.5	00 55	-17.7	43.2	15 05	671	20 14	603	68
5	18 53	905	23 46	716	189	15 45	17.6	18 37	-2.8	20.4	00 53	674	18 27	588	86
6	17 47	898	12 59	631	267	13 27	22.6	11 16	<u>-51.3</u>	73.9	03 45	666	11 28	447	219
7 D	12 27	999	06 09	668	331	17 12	23.3	21 21	00.5	22.8	01 45	674	18 48	549	125
8 D	08 08	1105	11 32	823	282	14 50	34.4	20 18	-2.8	37.2	21 59	679	15 45	583	96
9	02 05	1021	13 44	533	488	09 56	25.0	06 55	-2.8	27.8	04 50	663	12 52	444	219
10	07 05	812	13 09	617	195	14 57	19.7	23 30	-9.3	29.0	05 54	647	09 48	561	86
11	10 52	<u>1145</u>	10 33	342	<u>803</u>	04 00	32.7	11 26	-15.3	48.0	07 15	664	11 10	473	191
12 D	23 09	852	11 17	324	528	12 55	36.3	11 04	-17.9	54.2	22 50	768	12 37	371	397
13	03 14	1000	19 45	331	669	15 34	26.0	11 50	-27.8	53.8	04 02	800	11 48	295	505
14	00 17	740	08 30	225	515	16 32	22.4	08 32	-15.3	37.7	05 42	687	08 35	412	275
15	20 17	900	15 32	678	222	07 16	23.3	21 57	01.5	21.8	22 50	666	13 31	470	196
16	06 18	924	11 50	489	435	15 15	27.2	10 48	-32.6	59.8	05 48	687	13 43	480	207
17	13 29	940	08 24	647	293	16 14	30.3	05 27	-18.7	49.0	04 50	671	13 25	541	130
18	11 48	1029	04 30	696	333	17 13	25.5	10 12	-13.4	38.9	05 35	674	08 43	522	152
19 D	18 55	1100	10 51	840	260	06 59	41.6	12 39	-15.8	57.4	11 12	674	13 48	463	211
20	02 16	895	10 15	647	248	00 30	41.6	22 41	-3.3	44.9	01 10	679	22 45	561	118
21	11 47	826	04 25	713	113	08 48	31.3	21 58	-6.2	37.5	05 12	681	00 18	561	120
22	23 45	943	07 03	710	233	18 42	20.5	21 44	-5.9	26.4	05 00	679	12 48	603	76
23 Q	00 12	925	07 55	681	244	15 05	19.3	21 15	-0.9	<u>20.2</u>	02 03	653	07 42	489	164
24 Q	23 52	931	19 46	735	196	15 03	17.8	21 07	-5.2	23.0	23 55	660	19 47	603	<u>57</u>
25	00 56	953	09 07	476	477	09 28	14.8	09 03	-23.0	37.8	04 45	684	08 56	394	290
26	01 48	885	15 03	626	259	13 00	27.4	21 36	-1.6	29.0	01 52	715	12 20	441	274
27	06 36	847	09 04	<u>152</u>	695	09 04	43.0	09 34	-38.8	<u>81.8</u>	09 14	<u>855</u>	09 47	314	541
28	04 23	891	21 26	733	158	17 09	26.7	23 25	-6.9	33.6	04 25	663	08 18	565	98
29 D	05 16	1100	16 21	245	855	14 23	<u>53.3</u>	09 25	-27.8	81.1	21 41	833	14 00	201	<u>632</u>
30 Q	16 27	824	18 05	750	<u>74</u>	16 22	21.2	21 02	-2.8	24.0	00 00	674	09 00	582	92
31															
Mean		938		589	349		27.3		-12.6	39.9		693		497	196
No. days		30		30	30		30		30	30		30		30	30

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 25 Meanook

H = 12,000  $\gamma$  +

July 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	787	798	798	798	793	804	802	802	800	798	800	807	809	804	804	802	802	809	809	798	787	775	780	782	798
2	793	807	813	820	816	815	802	764	775	771	771	740	716	815	824	804	793	775	789	796	784	793	802	811	791
3	816	823	832	825	828	825	825	623	500	401	356	754	650	657	761	808	824	821	823	821	803	801	814	816	742
4 Q	821	821	821	799	774	812	812	810	819	821	803	750	657	690	799	825	805	799	776	776	799	799	794	816	792
5 Q	838	818	814	812	778	761	756	756	761	763	770	772	774	770	763	739	734	738	734	736	734	740	756	756	766
6	770	772	776	762	765	750	759	768	761	765	763	763	750	728	732	748	737	748	734	737	734	734	739	759	752
7 D	770	779	794	776	825	759	823	847	732	761	717	615	599	683	714	770	714	637	639	706	803	874	1028	1185	773
8	1318	1156	1016	916	865	876	843	785	750	739	675	757	754	688	742	794	781	770	748	739	748	759	759	750	822
9	755	773	866	788	777	782	804	817	806	793	766	698	636	669	673	653	678	729	722	727	749	773	775	802	750
10	795	778	798	766	737	751	742	742	718	711	653	777	777	775	760	749	707	693	715	806	762	766	797	762	752
11	751	800	826	824	804	789	760	673	662	749	731	753	733	711	746	751	762	755	733	762	771	773	761	773	756
12	762	777	793	793	762	784	762	729	688	707	689	693	707	760	777	773	771	738	733	729	731	731	751	778	747
13 Q	773	771	750	762	760	755	760	760	760	762	749	738	766	782	793	784	773	760	733	727	733	735	751	766	758
14	771	775	780	789	782	777	766	755	722	729	556	571	485	378	400	600	704	711	751	744	738	738	744	760	689
15	757	770	765	810	750	692	788	765	752	748	732	706	759	768	759	754	754	732	732	728	672	694	748	766	746
16	746	751	749	744	725	741	730	716	728	721	750	787	779	785	770	752	770	792	792	790	810	812	770	745	761
17	741	714	690	696	719	719	712	725	723	719	743	759	765	741	759	770	752	787	792	810	814	825	850	852	757
18 D	841	823	792	819	756	752	747	747	759	763	716	707	734	752	750	707	673	624	601	741	712	741	787	844	741
19	881	923	918	863	803	756	674	497	463	674	736	685	841	812	667	681	685	712	730	745	750	752	774	801	743
20 Q	823	796	770	756	743	732	734	732	745	750	745	743	748	745	732	721	696	701	696	701	707	745	732	790	741
21	761	779	797	793	797	831	871	891	913	921	915	913	904	886	846	808	782	793	764	753	775	826	837	802	832
22	736	699	725	707	730	770	750	745	730	741	734	707	712	694	681	681	670	685	683	696	725	734	792	810	722
23	779	759	745	721	756	752	752	756	761	752	739	568	723	752	752	752	759	748	736	745	748	743	752	745	741
24	740	752	747	746	754	765	761	763	761	764	768	766	747	748	755	758	751	745	737	732	746	763	773	778	755
25	769	786	787	781	781	771	778	769	738	736	695	735	772	785	793	792	784	707	708	713	732	764	788	763	759
26 D	788	804	792	792	802	767	736	785	718	623	634	647	769	751	764	764	742	755	764	769	771	771	767	713	750
27 D	717	729	713	707	720	733	735	715	698	641	627	592	634	691	642	668	687	694	710	774	776	761	744	709	701
28	694	706	709	708	723	700	703	706	709	709	705	682	566	728	738	739	729	705	653	675	733	741	762	783	709
29 D	786	782	726	690	726	677	494	477	573	555	477	477	614	747	782	782	747	782	786	740	737	761	772	745	685
30	726	709	739	721	666	706	732	608	584	645	686	726	775	678	699	701	660	680	717	704	701	731	758	786	702
31	774	782	775	772	739	735	737	737	751	748	754	743	740	739	747	743	739	715	699	706	711	723	772	793	745
Mean	793	791	788	776	766	763	756	734	721	725	708	714	722	733	739	748	741	737	734	743	752	764	782	792	751



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 26 Meanook

D = 25° E + ...'

July 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	04.1	05.8	06.1	05.8	05.3	04.4	05.8	06.1	04.1	03.9	04.5	06.3	10.6	16.4	17.8	20.0	17.6	13.5	08.2	02.9	01.5	-1.1	-0.7	01.0	07.1
2	03.2	05.3	07.0	07.7	07.0	08.7	08.7	18.8	04.4	07.0	05.1	06.5	11.1	17.3	17.1	16.4	14.0	10.1	06.8	04.6	02.0	01.0	01.5	02.7	08.1
3	04.7	04.9	06.8	07.1	07.3	15.7	09.7	10.9	13.3	-5.6	-1.3	03.7	06.1	06.1	21.5	24.1	20.7	17.4	12.6	06.8	04.2	02.3	00.4	01.3	08.4
4 Q	02.1	03.8	04.5	03.5	03.8	04.0	05.0	05.0	06.2	06.4	05.0	12.9	18.9	26.6	24.4	20.1	17.6	14.1	13.4	05.7	02.1	00.2	-2.7	-1.7	08.4
5 Q	02.1	04.7	05.2	04.7	04.7	04.9	05.9	07.3	08.1	07.1	07.6	10.2	12.4	16.2	17.2	18.6	16.0	12.9	10.7	07.6	02.1	00.6	01.8	04.7	08.1
6	05.0	05.0	04.8	05.0	05.2	06.9	07.2	07.9	07.2	08.6	09.1	08.4	07.9	14.1	20.6	20.6	15.6	12.2	07.9	06.4	06.9	01.9	01.4	04.5	08.3
7 D	05.7	05.9	06.2	10.0	10.0	-7.3	-2.7	09.8	04.2	10.7	12.9	02.1	20.3	21.3	25.8	26.8	19.1	18.6	15.5	08.3	09.3	14.3	18.4	22.5	12.0
8	11.7	04.3	02.9	-3.1	06.5	03.8	02.4	04.5	08.4	05.0	05.7	08.6	12.7	14.4	22.5	21.8	21.8	12.5	09.6	05.0	03.8	06.0	05.0	07.9	08.5
9	09.9	11.1	19.5	08.2	04.4	05.1	07.7	12.5	12.5	10.6	11.1	07.0	08.4	15.4	18.5	16.1	12.5	12.3	06.8	08.4	06.5	05.6	08.2	10.6	
10	09.9	10.6	12.5	12.3	06.8	06.5	08.9	10.6	10.1	11.3	07.0	14.4	14.9	16.1	17.8	18.5	17.6	07.7	02.7	01.2	03.9	05.8	07.5	08.7	10.1
11	08.1	08.4	10.8	18.0	08.6	13.9	13.2	17.7	15.1	10.5	09.1	13.2	15.8	21.3	20.8	18.4	17.0	19.6	10.5	03.1	04.8	06.2	06.9	08.6	12.5
12	08.4	07.2	07.9	08.4	06.5	06.3	04.6	-0.7	00.0	10.8	11.8	11.5	15.6	16.1	19.5	19.9	22.8	15.9	13.7	08.9	06.0	04.6	06.0	08.2	10.0
13 Q	12.1	13.5	14.0	13.8	15.6	10.2	09.7	09.2	09.0	09.7	03.4	08.5	12.1	18.8	21.7	21.7	19.8	14.0	10.6	06.8	04.9	04.9	05.6	06.6	11.5
14	09.1	09.4	11.0	10.6	09.6	11.0	11.8	07.7	10.6	11.5	11.3	11.5	35.8	34.8	24.7	43.2	36.0	15.4	09.8	05.3	01.9	03.4	05.3	02.9	14.3
15	05.1	05.1	06.8	07.0	09.4	11.8	04.4	03.7	05.1	09.4	10.6	07.5	16.6	22.4	23.6	22.6	18.5	16.9	11.8	07.5	06.1	06.3	08.7	09.9	10.7
16	11.8	12.3	12.0	10.3	08.7	09.6	11.8	13.2	04.8	00.5	13.7	05.3	13.0	07.8	14.9	11.3	11.3	09.9	13.0	08.4	12.0	12.0	10.6	03.4	10.1
17	02.1	02.6	03.6	06.2	09.1	15.8	17.5	12.5	09.1	05.0	03.1	03.6	05.5	06.5	09.6	09.6	09.6	05.5	-1.2	00.0	05.0	03.8	05.5	06.9	06.5
18 D	06.4	02.6	-1.3	00.9	06.2	08.1	07.6	08.1	07.6	07.6	09.1	16.5	18.2	20.1	17.2	23.9	26.8	11.7	11.0	16.5	15.8	05.7	10.5	12.4	11.2
19	07.7	09.4	15.9	15.4	10.6	07.7	-0.9	-4.3	-14.6	-8.6	-8.6	01.0	06.3	15.4	13.0	14.9	22.6	23.8	17.8	14.9	11.8	13.0	11.8	12.5	08.6
20 Q	14.4	12.7	10.8	08.4	12.0	11.3	10.8	10.8	10.8	10.3	11.3	12.2	13.2	16.8	20.4	20.4	19.9	18.0	13.2	03.6	-2.9	-1.9	-0.5	01.9	10.7
21	04.4	05.8	03.9	00.8	07.3	10.6	01.5	-1.6	03.9	10.4	11.1	15.9	21.3	39.4	40.4	37.5	37.5	36.3	32.0	27.4	26.0	24.8	21.2	18.3	18.2
22	17.3	16.6	20.4	19.4	15.1	11.3	08.9	08.2	05.1	09.1	10.8	13.5	17.8	15.4	16.8	23.1	22.8	18.5	11.8	07.0	07.7	05.1	04.3	06.0	13.0
23	02.6	02.4	04.5	04.8	06.7	08.9	08.9	09.1	09.6	13.9	11.3	-0.3	12.0	24.2	22.5	22.8	22.5	14.4	12.0	07.2	06.2	04.8	05.5	08.9	10.2
24	09.5	11.3	13.1	13.5	09.1	10.0	11.4	07.9	09.0	08.1	08.3	09.7	14.0	18.3	18.2	17.0	18.2	16.3	11.0	07.5	02.8	01.6	03.4	06.4	10.6
25	06.3	05.1	07.6	10.1	08.6	04.1	04.5	04.0	-1.3	07.6	06.9	04.4	16.3	22.6	22.2	21.6	20.8	23.2	18.9	12.9	08.8	08.6	13.2	16.1	11.4
26 D	20.2	21.8	19.3	18.2	11.7	06.2	01.1	03.5	-1.1	03.2	09.7	16.8	19.6	19.2	24.0	22.7	20.2	16.6	11.4	10.3	17.2	05.1	01.7	-0.9	12.4
27 D	-0.1	04.2	06.7	08.3	09.3	09.8	09.5	13.4	17.8	19.7	22.7	23.6	29.8	31.7	25.8	22.4	20.7	20.2	12.4	08.2	03.3	05.1	05.4	10.4	14.2
28	12.1	11.4	11.4	11.0	11.9	12.7	09.8	09.5	08.0	08.3	07.1	04.3	11.2	19.9	22.2	26.9	25.7	24.4	24.3	18.7	10.1	13.4	09.8	06.7	13.8
29 D	08.7	08.2	04.7	12.1	16.1	22.9	-11.1	-8.3	02.6	00.9	-2.0	-4.4	01.6	02.7	16.4	23.6	24.9	18.4	11.4	14.4	17.4	14.4	09.2	12.6	09.1
30	15.7	04.0	11.6	13.8	12.4	11.2	10.8	06.2	-9.4	00.4	02.2	11.1	14.8	14.8	26.7	22.3	28.1	22.3	10.5	07.3	05.1	03.3	03.7	07.7	10.7
31	04.0	10.3	10.9	08.1	08.0	08.5	08.3	08.0	08.1	02.8	00.4	04.0	05.6	08.0	14.3	19.3	18.6	12.9	07.1	02.7	03.0	02.3	04.5	10.0	07.9
Mean	07.9	07.9	09.1	08.7	08.8	08.9	06.9	07.5	06.1	07.0	07.4	08.7	14.2	18.1	20.5	21.6	20.7	16.3	12.0	08.2	07.0	05.9	06.1	07.6	10.5

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 27 Meanook

$Z = 58,500 \gamma +$

July 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	620	617	619	620	624	620	611	607	607	609	607	607	601	595	591	603	607	614	609	609	591	607	609	606	609
2	624	624	620	629	656	641	604	535	556	572	575	523	471	559	598	607	601	588	591	607	617	614	617	617	594
3	625	619	625	620	620	641	637	488	345	394	376	522	512	543	544	569	603	607	607	609	617	609	619	616	565
4 Q	616	614	620	622	624	624	617	616	629	620	583	528	445	481	554	607	624	619	624	625	624	627	624	611	599
5 Q	605	609	609	594	597	604	604	618	621	620	618	612	609	620	621	630	630	630	636	625	617	613	613	612	615
6	570	574	552	569	553	591	591	587	598	606	591	567	574	575	570	598	590	579	579	574	574	577	601	643	582
7 D	597	587	608	619	637	617	617	617	592	592	542	527	466	519	524	550	551	553	563	619	694	775	764	723	602
8	594	632	628	644	644	617	592	607	595	600	607	628	608	563	579	595	587	571	571	571	563	560	566	576	592
9	567	572	656	588	551	515	510	519	559	572	546	562	521	543	536	527	517	514	527	559	593	613	617	621	559
10	596	593	596	582	569	543	559	559	543	540	522	543	567	546	538	533	507	519	514	543	572	575	596	599	556
11	570	591	625	623	623	614	541	549	530	557	549	575	573	594	589	578	570	581	583	581	549	565	578	589	578
12	589	577	583	581	577	599	585	533	528	525	517	520	541	543	533	555	528	515	557	565	573	573	578	573	556
13 Q	568	563	568	571	558	547	531	520	549	539	510	487	513	539	539	499	505	510	512	512	533	547	555	552	534
14	558	558	555	552	552	550	539	507	505	502	499	487	434	367	299	353	374	408	515	508	520	539	568	581	460
15	575	555	550	555	555	539	528	518	518	526	531	542	531	547	528	520	503	503	520	542	555	523	542	541	535
16	542	548	545	542	542	492	501	492	480	505	510	510	505	503	510	516	511	492	508	513	510	510	508	521	513
17	535	537	536	537	535	500	503	500	509	519	522	550	545	545	538	534	530	519	535	506	532	532	519	535	531
18 D	523	512	515	518	515	509	496	499	454	465	455	437	467	499	483	410	434	405	429	424	470	536	593	607	486
19	559	559	535	540	551	481	481	566	524	546	533	462	465	381	384	422	433	454	478	491	498	517	527	530	497
20 Q	530	502	478	472	472	470	459	449	434	426	428	456	443	435	417	439	449	426	410	402	422	443	438	462	448
21	481	443	446	449	462	470	443	438	433	433	426	446	462	443	462	462	483	490	465	443	462	481	462	480	457
22	480	483	481	486	484	491	475	451	397	422	433	436	438	422	413	428	430	428	447	449	462	499	491	514	422
23	507	481	475	486	481	478	478	462	434	430	397	295	336	413	472	489	491	488	488	489	491	478	477	475	458
24	455	470	468	464	455	454	449	446	439	439	440	440	410	387	406	417	420	428	431	439	441	445	447	454	439
25	451	452	460	468	465	454	469	457	382	320	358	352	393	419	430	430	439	448	447	440	452	460	452	444	431
26 D	446	449	432	432	441	428	420	452	439	412	334	304	446	448	447	456	459	467	464	464	462	434	461	557	440
27 D	534	495	488	493	516	541	523	549	644	657	593	568	507	476	483	490	490	496	484	480	482	473	472	484	517
28	485	468	460	452	482	473	474	473	471	467	464	464	484	492	492	512	493	468	519	519	493	525	534	527	454
29 D	523	494	483	514	501	480	458	379	372	336	374	451	471	489	506	490	438	393	441	471	471	490	464	490	457
30	523	544	541	541	503	440	426	320	228	309	411	455	480	469	460	458	469	469	471	480	468	472	445	433	451
31	432	446	453	453	460	452	452	455	460	456	457	455	451	435	453	455	431	427	420	414	418	440	471	489	451
Mean	545	541	542	542	542	535	522	509	496	501	494	494	493	496	499	507	506	503	514	519	527	537	542	550	519

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28 Meanook

July 1946

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 25° E +			Minimum 25° E +			Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +					
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$
1 Q	18	13	820	21	41	769	<u>51</u>	15	22	21.2	21	29	-2.8	24.0	04	36	633	12	33	586	<u>47</u>
2	04	47	849	12	15	602	247	07	23	28.4	12	14	-1.4	29.8	04	46	664	12	22	348	316
3	02	53	854	10	00	<u>095</u>	759	09	25	40.9	09	37	-30.1	71.0	06	41	653	07	35	264	389
4 Q	02	22	845	12	48	617	228	13	42	31.6	22	25	-3.2	34.8	21	25	637	13	02	423	214
5 Q	00	28	841	18	17	730	111	15	21	20.5	21	13	-1.8	22.3	18	35	646	06	46	587	59
6	02	15	792	20	37	717	75	15	02	23.5	21	57	-0.5	24.0	23	23	648	04	15	533	115
7 D	23	30	1310	12	25	488	<u>822</u>	12	26	45.0	06	14	-40.9	85.9	21	27	<u>793</u>	12	08	372	421
8	00	27	<u>1398</u>	13	25	643	755	14	12	25.2	06	40	-19.7	44.9	11	07	687	13	43	550	137
9	02	19	883	12	02	574	309	02	30	37.7	23	00	01.0	36.7	02	23	734	12	26	505	229
10	22	55	849	10	29	631	218	16	09	22.8	10	38	-4.5	27.3	22	55	624	09	44	476	148
11	02	46	844	08	05	533	311	17	54	26.4	10	27	-1.7	28.1	03	25	680	14	03	461	219
12	02	18	800	11	57	629	171	14	35	23.8	08	07	-12.5	36.3	06	09	627	08	05	476	151
13 Q	15	02	804	18	56	711	93	14	51	23.8	10	17	01.3	22.5	09	39	575	16	52	468	107
14	04	37	806	13	55	200	606	13	31	<u>87.6</u>	14	07	-29.0	<u>116.6</u>	23	55	606	14	20	150	456
15	04	17	959	04	55	599	360	04	33	45.2	05	44	-2.1	47.3	00	05	601	17	44	465	136
16	23	55	825	02	50	659	166	10	00	26.9	16	30	00.5	26.4	01	38	565	17	52	467	98
17	23	50	869	02	08	670	199	06	17	22.3	19	34	-10.8	33.1	11	43	568	19	21	482	86
18 D	23	55	885	18	22	552	333	15	50	30.2	02	46	-11.1	41.3	23	12	621	11	32	368	253
19	01	48	945	08	15	152	793	17	13	27.4	08	32	-22.1	49.5	09	55	600	14	12	354	246
20 Q	00	12	852	18	35	685	167	14	52	22.8	20	53	-4.8	27.6	00	59	551	14	47	381	170
21	10	00	944	19	08	735	209	13	43	45.2	07	07	-5.0	50.2	00	18	498	10	32	417	81
22	23	02	836	16	12	665	171	17	09	26.9	08	31	-2.9	29.8	23	57	522	08	43	350	172
23	10	58	796	11	42	308	488	14	07	28.3	11	15	-8.4	36.7	00	10	536	11	44	200	336
24	23	23	786	19	30	730	56	13	10	22.7	21	02	00.6	<u>22.1</u>	01	45	480	13	37	369	111
25	16	36	815	17	23	668	147	15	48	24.3	09	03	-6.2	30.5	06	25	493	09	40	236	257
26 D	04	20	820	11	05	598	222	14	09	27.2	08	48	-11.8	39.0	23	35	585	11	18	210	375
27 D	19	30	797	12	11	552	245	13	05	34.4	20	17	00.1	34.3	08	53	698	23	00	458	240
28	23	26	807	12	35	465	342	15	36	29.6	22	06	02.7	26.9	22	15	560	04	07	426	134
29 D	18	00	824	11	08	388	436	05	23	48.8	07	00	<u>-58.6</u>	107.4	03	37	570	09	10	296	274
30	12	25	804	08	47	463	341	16	45	33.5	08	29	-25.0	58.5	04	18	584	08	03	<u>113</u>	<u>471</u>
31	01	00	804	18	13	672	132	16	06	20.6	10	13	-2.7	23.3	02	39	464	17	55	410	54
Mean			873			565	308			31.4			-10.1	41.5			603			394	209
No. days			31			31	31			31			31	31			31			31	31

**HORIZONTAL INTENSITY**  
Mean values for periods of sixty minutes, Universal Time

Table 29 Meanook

H = 12,000  $\gamma$  +

August 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	798	783	789	756	738	751	767	800	768	768	772	761	746	707	742	753	761	765	742	729	742	746	750	750	758
2	772	783	770	770	761	759	756	754	750	752	752	748	744	760	770	757	743	731	728	736	741	744	742	757	753
3	771	767	765	768	771	753	751	748	743	752	761	764	768	775	773	768	754	737	724	718	717	726	743	754	753
4	761	763	765	764	769	757	758	765	767	768	768	768	775	786	789	786	772	752	732	718	732	738	748	754	761
5	754	758	756	757	759	757	757	764	768	783	768	770	775	772	768	764	753	746	737	735	746	768	781	783	762
6	803	803	786	783	776	757	763	761	763	749	734	763	744	739	765	768	770	764	746	748	761	781	787	804	767
7 D	757	792	783	772	807	785	764	698	656	656	672	720	622	531	502	663	659	677	715	734	735	775	796	789	711
8	756	752	754	757	763	755	755	755	754	756	757	764	769	778	776	761	765	750	736	726	728	744	734	757	754
9	773	779	761	762	760	761	764	765	768	771	771	774	781	778	764	749	724	726	715	726	746	750	764	757	758
10	757	754	753	754	761	765	765	764	768	771	779	775	785	778	750	742	718	702	707	726	761	768	749	778	755
11 D	800	809	776	811	1040	1033	809	726	772	768	722	731	775	770	746	735	691	683	718	746	764	800	813	816	786
12	771	852	827	768	745	752	696	715	641	735	750	754	752	739	732	729	702	697	709	709	729	748	776	750	741
13	769	751	748	744	750	761	732	745	757	749	752	741	739	729	730	718	713	708	694	696	708	737	748	752	736
14 D	783	783	785	763	769	767	784	657	457	418	413	413	635	833	806	764	722	736	716	727	767	833	727	771	701
15 D	845	872	919	826	810	808	758	741	740	731	738	769	766	767	734	745	703	682	705	728	728	720	763	773	765
16	757	769	783	767	750	763	773	715	682	696	710	705	750	761	710	716	720	728	728	714	697	687	853	817	740
17	734	738	753	765	761	769	695	422	380	594	682	641	734	755	686	686	736	725	712	716	729	746	778	771	696
18	771	772	756	759	765	763	768	750	752	750	740	743	757	764	763	756	732	713	709	718	734	749	756	789	751
19	785	763	754	750	759	757	765	754	761	757	757	761	765	759	763	754	734	720	714	722	734	744	751	758	752
20	760	760	771	779	757	741	750	748	741	743	739	737	748	746	739	730	713	696	687	707	721	730	746	746	739
21 Q	739	752	752	739	743	757	757	757	764	751	752	752	758	757	752	749	725	718	718	728	727	734	751	758	745
22 Q	758	755	755	748	752	755	760	759	760	762	765	766	768	768	766	752	737	726	719	726	733	739	757	770	752
23 Q	760	758	758	758	758	765	766	768	765	762	763	766	771	768	766	751	730	711	712	729	758	776	782	784	758
24	778	772	758	759	764	768	770	777	768	760	765	765	768	764	756	747	739	727	721	731	737	741	766	769	757
25	784	773	775	774	759	766	766	759	759	759	761	766	767	766	759	749	727	717	720	722	750	766	769	771	758
26 Q	767	759	757	760	759	764	764	761	761	762	763	765	767	769	765	755	742	725	722	728	734	740	748	754	754
27	761	761	768	781	777	773	769	761	759	759	744	750	759	769	770	758	734	713	729	756	761	777	771	771	759
28	773	770	768	770	770	765	765	765	765	767	768	769	771	763	767	764	746	722	716	729	743	748	761	765	762
29 Q	769	766	767	772	771	767	758	755	758	758	760	760	760	762	753	754	747	724	723	735	751	754	761	769	756
30	767	759	763	771	772	770	769	769	767	769	770	772	773	777	773	771	770	756	746	745	745	752	756	791	763
31 D	811	822	966	1009	915	1031	807	819	767	693	569	751	720	475	628	676	705	720	744	732	724	721	728	745	762
Mean	769	776	778	775	778	780	761	740	728	733	733	741	752	747	744	744	732	726	721	727	738	751	763	770	750

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 30 Meanook

D = 25° E + ... ' .

August 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	14.8	14.3	17.4	14.1	11.1	11.6	11.7	08.0	05.9	03.5	03.0	05.1	07.5	16.4	21.4	25.1	21.7	19.5	16.2	12.4	11.1	09.3	08.3	10.5	12.5	
2	12.5	14.1	15.0	14.8	14.1	12.0	11.5	13.2	13.1	09.3	08.5	09.1	12.1	17.7	21.3	23.1	22.0	18.4	13.1	08.5	07.0	05.7	06.8	08.2	12.6	
3	11.4	13.3	14.3	13.6	09.5	09.6	11.2	12.8	14.0	11.4	11.5	12.4	16.1	20.0	23.3	26.5	27.6	23.6	16.2	10.4	07.1	05.7	05.7	07.8	14.0	
4	10.0	10.6	10.6	10.0	10.0	09.5	09.5	09.5	09.3	09.6	10.7	12.0	14.8	17.8	20.8	23.1	24.7	20.9	15.9	07.7	03.3	03.3	05.6	06.4	11.9	
5	08.5	10.9	11.8	11.2	10.0	10.4	10.6	13.1	15.3	12.4	08.8	10.4	19.0	22.4	21.9	24.5	23.0	18.8	13.4	09.0	04.9	06.4	08.0	08.8	13.1	
6	10.2	10.4	09.9	07.8	07.5	08.0	09.4	10.3	11.4	15.5	21.1	17.8	15.3	26.5	28.9	28.9	23.9	17.1	13.0	08.3	05.9	06.8	07.0	08.0	13.7	
7 D	11.6	12.4	13.5	13.5	12.4	12.8	14.3	17.1	18.5	18.0	15.5	18.8	11.1	20.5	21.9	25.8	19.3	18.0	11.8	05.3	04.5	04.2	04.9	08.3	13.9	
8	12.4	14.2	13.6	11.1	10.5	11.2	12.3	14.5	12.0	10.7	10.5	11.3	13.0	16.1	19.3	22.3	23.0	18.0	19.0	19.7	09.0	07.2	05.0	06.8	13.4	
9	08.4	09.5	10.0	09.3	08.8	09.3	09.6	10.1	10.7	11.0	11.6	14.6	15.8	17.5	20.2	18.4	17.3	12.4	09.2	-1.4	00.9	04.0	06.0	07.9	10.5	
10	09.8	10.0	08.7	07.3	08.5	08.1	08.6	09.2	10.0	11.5	12.7	15.0	18.0	19.5	22.0	19.4	17.5	16.0	04.0	03.6	02.9	05.0	06.0	06.5	10.7	
11 D	09.3	10.0	14.4	14.6	16.4	18.9	04.7	13.1	14.4	12.7	11.2	20.2	21.7	27.6	30.1	27.1	27.9	15.5	06.2	06.9	01.1	06.5	09.7	06.5	14.4	
12	07.4	11.2	13.1	10.5	06.5	09.3	20.6	01.9	-2.7	10.0	10.5	12.7	16.2	21.5	23.2	21.5	23.6	15.1	12.2	08.5	07.6	06.7	08.2	04.7	11.7	
13	03.6	06.2	06.6	07.8	08.8	11.1	06.6	09.7	11.9	09.6	10.8	13.6	16.5	19.1	21.7	23.7	19.6	16.2	09.3	04.6	-0.7	00.9	05.0	07.6	10.4	
14 D	09.1	09.1	07.4	05.0	08.1	05.9	06.1	13.7	05.0	05.0	12.6	26.6	25.9	26.9	28.5	26.3	21.3	16.7	13.8	11.4	10.5	04.0	02.5	14.1		
15 D	00.6	05.1	11.0	07.0	10.6	04.8	11.2	08.1	07.1	06.3	08.4	10.9	13.1	17.3	22.6	23.9	28.3	16.3	07.9	06.4	01.3	00.7	02.8	07.1	10.0	
16	08.5	13.1	16.7	09.1	08.3	14.2	16.7	13.0	11.4	13.1	14.5	16.2	18.0	19.7	21.8	23.5	26.2	26.5	19.9	17.0	16.5	-2.7	01.0	03.5	14.4	
17	06.4	09.1	10.1	09.5	18.3	35.8	28.9	15.7	-18.8	07.6	10.7	-1.5	15.5	22.1	21.0	21.4	24.2	18.0	13.6	10.3	13.8	13.8	06.6	07.2	13.3	
18	07.7	08.4	10.4	10.8	09.5	09.1	09.3	03.0	08.0	07.6	08.5	09.9	13.8	18.9	21.1	21.6	21.1	18.0	11.1	06.0	03.4	02.2	02.5	03.3	10.2	
19	04.7	07.8	07.9	07.3	08.3	12.8	09.6	08.5	08.5	09.1	09.6	10.3	11.2	15.1	18.5	20.6	20.3	18.0	11.4	06.0	02.9	03.6	05.6	07.2	10.2	
20	08.5	08.5	08.2	08.1	08.5	09.9	09.0	08.3	08.3	08.7	09.0	09.5	11.1	16.1	19.8	21.9	19.5	15.6	10.2	06.1	00.6	-0.4	02.0	06.0	09.7	
21 Q	08.7	09.5	09.9	08.7	08.7	08.3	08.6	08.6	09.5	11.4	10.4	11.4	12.4	15.5	18.5	21.6	18.7	18.0	11.7	04.5	02.4	03.6	05.9	07.3	10.5	
22 Q	08.7	08.7	08.5	08.7	08.9	09.1	09.3	09.9	10.8	11.6	12.1	13.1	14.4	18.9	21.2	21.6	20.3	16.4	11.3	06.7	03.4	03.6	05.2	07.2	11.2	
23 Q	09.0	09.0	08.5	08.6	08.6	09.2	09.6	10.1	10.5	11.5	13.1	14.3	16.3	18.6	18.6	19.0	17.7	12.7	06.2	02.3	01.4	03.6	06.5	07.3	10.5	
24	08.0	06.4	04.7	04.4	05.1	05.4	06.5	07.6	11.4	12.8	14.5	14.9	18.0	22.0	21.2	16.3	15.3	07.3	02.7	01.9	03.4	04.1	04.7	06.5	09.4	
25	05.4	05.4	01.4	06.8	09.7	06.4	07.7	08.1	09.3	11.2	12.1	13.1	14.9	17.8	17.8	17.8	17.0	13.3	11.0	07.9	06.4	06.4	07.2	08.6	10.1	
26 Q	09.6	10.2	09.5	09.5	09.3	09.5	09.9	10.3	10.9	11.5	12.5	14.0	15.3	17.2	18.1	18.2	16.5	14.3	09.2	07.5	05.1	06.6	07.2	07.2	11.2	
27	06.7	07.1	08.0	08.5	06.0	03.2	07.5	09.0	10.3	13.8	14.5	16.3	21.6	18.9	20.2	20.2	19.9	17.3	12.4	05.3	03.2	03.5	03.2	03.5	10.8	
28	04.8	05.1	08.0	06.4	09.5	08.8	09.1	09.7	10.2	10.3	11.2	12.4	14.3	17.7	19.9	18.4	19.9	18.5	08.8	04.2	03.5	03.7	05.4	08.8	10.4	
29 Q	10.2	10.8	09.4	08.5	08.5	10.8	09.6	08.9	09.2	09.6	10.5	11.8	14.2	17.8	20.4	22.3	22.3	18.6	13.6	09.1	04.8	04.6	06.2	07.8	11.6	
30	09.7	10.0	09.5	09.7	09.9	10.1	09.7	09.9	10.2	11.0	11.1	11.2	13.7	11.0	09.7	22.4	23.2	21.3	17.7	12.0	06.4	04.1	00.3	-1.9	10.9	
31 D	-1.9	05.4	10.6	03.0	-13.8	-22.5	09.9	10.6	11.1	10.1	08.3	07.6	07.8	09.7	27.7	22.4	25.1	27.6	10.4	07.8	04.8	06.6	08.4	10.7	08.6	
Mean	08.2	09.6	10.3	09.2	08.9	09.1	10.6	10.9	09.6	10.6	11.0	12.3	15.1	18.8	21.3	22.3	22.0	18.3	11.8	07.7	05.1	04.8	05.5	06.6	11.6	

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 31 Meanook

$z = 58,500 \gamma +$

August 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	487	485	469	460	459	458	464	471	454	455	474	480	474	471	457	461	468	471	471	470	438	473	483	482	468	
2	471	460	457	460	460	458	453	451	442	434	432	432	423	435	449	452	457	446	452	458	464	473	473	469	453	
3	476	474	474	472	471	454	460	454	447	441	455	462	466	471	468	460	461	460	455	449	453	460	461	466	461	
4	462	457	447	449	449	448	443	439	443	446	447	448	449	451	449	451	451	449	447	446	444	449	452	460	449	
5	462	457	458	457	456	458	458	458	458	457	457	442	451	473	468	459	455	440	442	438	455	459	466	478	457	
6	471	474	468	458	457	454	449	455	455	445	383	410	439	412	396	426	446	442	427	438	448	465	460	471	444	
7 D	458	476	493	517	528	494	459	404	258	284	325	398	388	222	226	294	359	415	457	482	505	490	474	466	411	
8	458	458	457	451	455	447	441	423	447	446	448	449	452	455	452	448	446	440	442	448	466	469	449	446	450	
9	446	448	445	441	441	439	441	446	444	442	443	447	449	447	468	455	428	431	430	441	442	459	468	466	446	
10	464	461	454	452	444	439	444	446	444	446	448	447	447	446	454	440	435	435	435	453	468	480	474	492	452	
11 D	506	522	506	492	480	431	394	412	375	458	415	399	492	483	442	447	440	440	446	476	489	507	552	517	463	
12	540	544	531	506	466	454	388	413	330	404	447	455	459	453	453	438	454	455	449	455	482	501	508	460		
13	495	480	465	458	466	458	462	448	440	442	455	465	455	446	435	435	422	430	430	440	438	440	440	440	451	
14 D	438	465	471	483	460	452	449	457	482	462	584	611	530	520	490	465	448	459	453	480	502	577	526	488	490	
15 D	498	550	521	503	482	493	433	439	445	428	387	435	458	460	441	446	439	442	449	458	471	471	476	482	463	
16	471	482	469	485	487	471	469	377	348	369	390	411	432	443	416	440	452	449	446	460	493	522	554	509	452	
17	471	457	460	471	482	428	288	282	592	469	396	320	406	426	392	434	449	449	447	460	460	475	458	466	435	
18	458	460	455	455	452	446	442	445	442	440	435	439	453	451	452	454	447	444	437	437	451	466	472	484	451	
19	487	487	461	449	449	439	435	439	442	440	443	445	446	447	449	452	457	446	447	445	442	442	443	445	449	
20	443	443	443	443	443	446	444	440	427	424	434	427	419	414	417	411	403	414	417	420	434	419	414	430	428	
21 Q	444	444	442	440	441	444	441	439	439	439	438	436	431	432	431	425	430	440	443	429	434	426	426	436	436	
22 Q	446	444	441	437	439	441	437	440	439	439	441	444	442	448	445	439	437	439	437	438	435	432	437	441	440	
23 Q	439	437	437	435	439	441	437	439	437	431	434	439	440	441	440	439	435	429	426	426	432	437	438	441	436	
24	439	439	439	437	434	431	441	447	446	441	438	437	439	432	428	421	417	420	428	435	430	439	441	451	435	
25	462	461	482	503	471	444	451	447	440	439	441	439	443	437	433	431	434	439	437	434	439	447	444	440	447	
26 Q	439	435	433	433	432	428	429	431	430	430	431	432	437	435	431	429	428	425	426	428	429	425	428	428	430	
27	430	432	433	439	439	470	479	447	442	440	434	415	425	433	442	438	432	428	421	426	433	439	441	446	438	
28	449	458	462	475	471	449	437	435	435	435	435	438	439	434	434	433	433	435	431	433	440	439	437	437	442	
29 Q	436	434	434	435	435	434	431	431	434	434	437	435	428	434	434	435	431	430	430	431	439	441	440	441	434	
30	439	431	430	431	432	433	433	433	433	435	432	434	437	439	435	435	433	428	420	426	434	439	439	444	434	
31 D	493	498	509	523	378	164	423	421	408	413	401	405	404	276	318	354	380	413	437	439	449	455	456	458	411	
Mean	464	466	466	466	454	440	437	433	432	433	434	438	444	434	430	434	436	438	439	445	452	461	462	462	446	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32 Meanook

August 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	06 30	833	13 12	663	170	15 09	29.6	10 13	01.0	28.6	00 20	496	20 35	423	73
2	01 25	797	18 07	712	85	15 07	24.2	21 44	04.2	20.0	22 20	480	12 42	408	72
3	13 30	777	20 04	716	61	16 05	28.6	21 42	05.2	23.4	04 32	485	09 10	426	59
4	15 32	798	19 41	716	82	16 22	26.7	21 10	01.8	24.9	00 05	469	07 35	435	34
5	13 50	786	18 27	709	77	15 29	28.4	21 06	02.8	25.6	23 45	487	12 00	383	104
6	00 05	811	10 14	698	113	13 42	34.2	20 58	03.9	30.3	23 49	493	10 14	320	173
7 D	04 42	840	13 30	489	351	14 23	39.9	13 46	-9.1	49.0	04 28	557	14 53	140	417
8	14 02	783	19 00	716	67	16 33	25.1	22 26	03.6	21.5	20 52	475	07 28	399	76
9	01 36	832	16 44	702	130	14 40	23.5	19 42	-4.3	27.8	12 27	483	16 48	422	61
10	23 45	813	17 47	669	144	14 30	24.4	19 07	-0.5	24.9	23 36	507	17 40	427	80
11 D	05 12	<u>1217</u>	17 48	672	545	14 04	40.0	06 34	-7.8	47.8	23 36	596	08 06	310	286
12	02 28	931	08 12	534	397	06 23	53.4	08 09	-26.9	80.3	02 50	600	08 18	213	387
13	00 53	1002	18 40	685	317	15 49	26.9	20 43	-1.4	28.3	00 38	503	17 05	420	83
14 D	21 30	900	10 50	358	542	11 44	<u>90.6</u>	11 26	-54.5	145.1	11 05	752	09 45	280	472
15 D	02 37	1048	18 00	652	396	16 12	31.2	21 52	-1.4	32.6	01 37	584	10 27	361	223
16	22 50	900	08 00	654	246	17 00	31.2	20 58	-9.3	40.5	19 27	584	08 00	331	253
17	05 39	803	08 19	360	443	05 45	43.6	08 21	-47.5	91.1	08 28	<u>775</u>	11 42	128	647
18	01 13	792	18 07	699	93	15 26	22.8	07 16	-4.8	27.6	23 20	493	19 26	428	65
19	00 09	821	18 12	697	124	15 00	21.3	00 05	01.0	20.3	01 05	503	06 10	430	73
20	04 42	798	18 17	685	113	04 36	24.1	20 45	-2.1	26.2	04 21	479	16 15	400	79
21 Q	09 17	767	19 12	715	<u>52</u>	15 25	22.3	20 15	-0.6	22.9	07 55	453	17 00	423	30
22 Q	23 43	778	18 11	717	61	15 30	22.0	21 00	02.3	19.7	13 32	455	21 50	426	29
23 Q	23 56	805	17 45	704	101	15 20	19.2	20 15	00.5	18.7	14 17	449	19 07	418	31
24	00 01	802	18 26	716	86	13 52	24.4	18 55	00.4	24.0	23 55	457	15 21	415	42
25	00 27	801	17 57	713	88	16 07	20.9	02 08	-1.4	22.3	03 34	516	14 57	428	88
26 Q	00 23	777	18 10	715	62	15 12	19.4	20 03	03.7	<u>15.7</u>	00 34	441	15 12	420	<u>21</u>
27	22 00	796	18 03	705	91	12 38	24.1	05 30	-2.8	26.9	06 25	498	11 53	398	100
28	00 33	792	18 05	708	84	16 36	22.6	19 47	00.2	22.4	03 51	490	18 30	428	62
29 Q	03 55	778	18 35	716	62	15 32	23.3	21 30	02.4	20.9	21 26	447	17 15	426	<u>21</u>
30	23 58	830	22 37	713	117	16 20	24.7	22 44	-6.0	30.7	23 55	464	18 48	414	50
31 D	02 35	1190	05 40	<u>009</u>	<u>1181</u>	14 23	45.2	05 37	<u>-129.1</u>	<u>174.3</u>	04 00	576	05 21	<u>-257</u>	<u>833</u>
Mean		848		642	206		30.3		-8.9	39.2		518		356	162
No. days		31		31	31		31		31	31		31		31	31

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 33 Meanook

H = 12,000  $\gamma$  +

September 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean	
1 Q	745	743	745	748	746	747	747	753	754	755	753	752	750	746	743	742	726	709	713	718	719	719	767	767	743	
2	779	743	750	755	765	739	755	750	746	746	745	746	752	746	744	757	731	718	710	725	734	737	757	762	746	
3	761	759	750	748	750	756	752	748	737	737	737	741	752	741	741	745	755	752	740	728	744	752	763	780	745	
4	777	782	781	770	774	779	704	695	653	568	322	618	755	704	712	738	738	751	726	724	740	739	758	784	712	
5	778	759	759	762	764	761	762	737	669	645	762	744	649	782	770	770	727	718	733	738	738	756	748	759	741	
6 Q	762	758	776	774	774	779	766	768	769	770	771	774	774	776	776	771	756	747	739	741	744	750	751	750	763	
7	753	758	764	768	768	777	785	788	741	428	488	511	548	425	507	724	782	761	745	725	723	742	753	784	702	
8	785	803	761	771	776	765	777	750	750	717	672	729	720	750	789	775	761	752	708	750	764	771	771	739	754	
9	760	770	768	760	771	776	761	760	760	759	758	756	733	710	693	706	673	710	710	749	749	753	742	764	744	
10	756	751	754	756	761	763	763	610	501	757	802	777	751	741	741	758	737	730	729	729	739	765	774	803	740	
11	751	753	753	754	757	759	756	756	751	752	696	768	774	776	772	749	738	711	714	725	739	749	752	754	748	
12	749	756	760	763	763	767	784	725	756	774	766	747	632	693	767	772	745	724	717	715	738	741	733	737	743	
13	759	759	767	765	771	771	771	765	764	767	767	767	771	771	756	751	752	751	734	724	724	739	748	755	757	
14	758	742	756	760	762	762	763	764	767	776	768	760	764	767	764	750	737	714	713	717	730	735	762	765	752	
15 Q	766	761	767	766	768	774	771	771	744	778	777	777	771	770	769	740	752	741	736	738	741	745	759	759	760	
16	772	759	757	764	767	770	768	770	768	774	774	770	767	776	776	770	733	620	601	739	754	712	789	848	754	
17	833	782	766	757	755	772	777	754	697	585	631	648	702	726	732	750	742	723	722	744	757	761	775	734		
18 D	847	1056	863	695	682	675	524	306	-02	386	521	222	-131	026	194	070	507	754	672	820	743	767	757	809	532	
19 D	958	1044	960	685	787	836	680	692	734	568	424	389	205	022	367	386	687	758	755	754	763	753	772	790	657	
20	763	762	753	748	755	773	776	720	720	775	769	762	745	740	732	716	709	707	695	706	723	734	752	755	741	
21	751	745	741	747	745	752	755	755	753	750	736	732	752	736	723	721	734	693	697	713	737	773	790	767	742	
22 D	763	841	806	959	544	351	427	526	297	248	297	089	351	130	-03	680	864	717	714	783	755	755	766	755	559	
23 D	754	941	918	734	591	010	-95	-118	-83	139	178	306	345	104	-437	-523	381	669	735	852	834	980	1010	969	425	
24	919	780	859	829	793	774	759	681	657	728	681	644	736	752	772	767	752	732	727	728	730	734	740	744	751	
25 Q	746	745	747	748	748	749	749	754	754	751	748	748	750	748	749	746	734	716	713	720	720	733	750	748	742	
26 Q	740	743	747	754	753	753	754	754	731	719	711	698	751	750	741	756	751	734	722	722	727	727	735	754	739	
27	742	765	757	751	752	769	738	738	742	758	730	698	752	749	695	594	563	647	750	730	764	767	766	741	727	
28 D	765	765	803	839	862	811	366	-65	430	196	150	-48	028	034	-35	273	426	566	687	804	856	987	926	929	515	
29	979	1063	956	936	943	783	788	760	662	700	743	732	630	586	603	676	659	728	725	753	755	744	761	768	768	
30																		720	720	752	747	735	750	745		
31																										
Mean	782	800	784	775	759	726	696	661	646	659	644	633	630	613	609	642	702	716	716	741	747	759	773	780	708	



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 34 Meanook

D = 25° E + ...'

September 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean	
1 Q	13.9	13.3	12.3	11.4	10.9	10.0	09.0	10.3	11.6	12.9	14.2	15.6	16.8	18.7	22.3	23.0	23.4	18.7	09.2	05.1	04.8	07.3	09.9	12.2	13.2	
2	09.7	09.2	09.4	08.7	06.9	09.0	09.4	10.4	12.0	12.6	12.8	15.5	16.1	19.6	21.7	22.4	23.7	20.3	11.8	07.0	03.9	03.2	06.0	08.0	12.1	
3	10.5	11.5	12.3	11.8	11.5	09.9	08.9	10.3	12.3	12.3	11.5	10.8	15.4	20.4	22.4	23.8	21.5	12.8	10.3	08.9	07.9	06.0	07.9	09.5	12.5	
4	11.4	10.6	08.9	08.9	08.7	09.0	20.3	18.2	18.4	22.6	15.9	20.2	19.5	19.3	26.2	27.3	23.2	18.7	16.5	07.6	03.9	03.8	06.5	07.5	14.7	
5	11.9	10.6	09.5	09.5	09.6	09.4	13.8	08.7	17.4	23.4	18.4	15.5	15.5	22.0	25.6	23.7	20.7	11.6	07.7	03.9	05.8	07.9	07.9	08.1	13.3	
6 Q	10.1	09.7	07.6	20.8	19.5	08.1	08.4	08.2	09.4	10.1	10.6	11.6	13.3	15.5	17.7	19.1	19.2	16.6	13.5	12.0	10.3	09.7	08.9	08.7	12.4	
7	07.7	07.2	07.0	07.7	07.7	06.7	06.7	17.1	11.4	29.5	58.0	26.1	31.2	33.8	32.1	28.0	20.7	19.9	16.9	13.5	11.1	09.7	08.9	08.5	17.8	
8	07.0	04.5	07.7	06.8	07.4	07.4	07.4	06.8	18.1	13.7	10.4	14.3	18.1	13.5	17.2	17.4	15.7	15.4	15.3	09.7	08.1	08.7	09.6	09.3	11.2	
9	08.7	08.6	08.1	08.4	08.3	10.9	12.5	10.3	11.8	13.0	14.2	15.0	16.5	18.0	19.5	17.7	15.3	15.3	05.0	06.1	07.5	09.0	09.9	08.4	11.6	
10	08.9	07.2	08.5	08.6	08.6	08.2	09.4	-4.8	-14.2	21.0	15.5	16.6	20.8	22.2	18.2	19.6	21.5	15.5	14.0	10.5	08.8	07.4	07.6	07.8	11.1	
11	06.9	06.1	08.5	09.7	09.0	09.3	09.4	09.7	13.7	17.8	15.9	22.7	19.3	16.8	17.6	24.5	20.6	18.6	08.2	08.0	03.8	04.0	05.3	06.7	12.2	
12	08.9	09.2	09.2	09.4	09.4	07.5	20.3	18.6	05.6	12.6	12.7	11.8	09.4	16.6	23.2	21.9	19.6	15.7	13.5	09.7	07.3	04.5	03.9	05.0	11.8	
13	07.4	08.2	08.4	08.6	09.0	16.8	08.7	07.0	08.5	09.9	10.8	11.7	12.3	14.4	16.4	18.2	19.3	18.3	15.9	08.0	05.4	02.9	03.8	04.0	10.6	
14	04.6	08.4	08.5	09.6	09.6	09.7	09.7	09.4	14.1	14.5	16.4	13.2	13.5	16.4	18.8	20.9	20.6	18.4	14.5	08.0	05.4	03.9	03.2	04.6	11.5	
15 Q	06.9	08.1	08.1	08.9	08.9	09.5	08.6	09.9	06.9	10.6	12.0	12.8	14.1	15.1	17.7	19.7	17.6	16.3	13.5	10.2	09.0	08.3	06.9	07.4	11.1	
16	06.6	07.6	08.4	08.7	08.9	09.0	09.0	09.5	10.8	11.6	12.3	12.8	15.0	15.2	18.8	21.3	28.5	30.0	28.8	21.6	18.6	12.8	09.9	07.2	14.2	
17	07.9	15.7	20.8	12.0	06.0	05.4	08.0	08.5	11.8	10.4	10.9	13.5	13.8	14.7	18.4	21.5	20.8	20.2	14.5	11.4	09.9	06.9	05.5	07.2	12.3	
18 D	20.3	17.9	04.3	-15.7	-41.3	-15.4	-22.2	-8.2	35.4	05.4	25.4	27.8	-41.8	31.6	43.8	22.4	19.4	23.9	22.9	18.8	07.8	04.8	09.3	09.0	08.6	
19 D	19.8	16.9	-3.0	-1.0	00.2	08.8	-15.0	16.2	10.9	-17.3	-8.0	24.6	75.7	31.1	35.3	19.8	19.1	18.1	10.9	10.4	08.1	10.2	09.8	08.7	12.9	
20	10.6	08.1	10.1	11.3	10.7	09.0	15.2	15.6	12.4	11.4	12.2	13.8	15.5	18.1	21.5	24.5	23.1	22.2	18.0	08.7	09.0	08.8	07.5	08.2	13.6	
21	09.9	10.4	09.7	09.7	09.6	09.9	10.6	10.3	10.6	12.3	13.5	12.4	14.8	18.2	21.1	19.5	19.5	25.8	16.7	06.3	01.7	06.6	05.3	01.1	11.8	
22 D	02.9	04.5	06.3	-2.4	-1.0	-15.8	-37.4	-9.3	-45.3	-11.7	28.5	93.3	65.7	107.7	117.7	61.7	45.8	24.3	06.9	05.0	04.2	02.9	06.9	13.2	19.8	
23 D	17.9	31.4	01.1	37.7	18.9	-79.4	-91.4	-131.5	-60.2	07.4	-0.2	06.9	35.8	42.4	-14.6	35.8	39.3	23.0	14.7	13.5	15.3	15.7	14.3	09.7	00.0	
24	07.4	04.8	06.1	13.2	10.6	09.3	12.0	05.6	06.5	12.0	14.3	14.8	13.5	17.4	19.3	18.1	16.9	15.3	14.4	09.4	07.5	07.4	08.3	09.0	11.4	
25 Q	10.9	10.6	10.3	09.7	09.7	09.7	09.7	10.4	10.9	11.5	11.1	11.3	11.5	13.5	16.4	18.2	20.1	18.7	12.9	09.1	06.2	05.5	06.1	08.1	11.3	
26 Q	10.4	10.4	09.9	09.7	09.7	09.9	12.8	18.1	16.1	17.0	12.2	09.4	13.1	15.2	17.3	21.3	22.4	21.6	15.7	11.6	09.4	07.4	07.7	09.2	13.2	
27	10.1	08.3	08.0	08.7	09.4	12.2	16.6	18.5	17.2	14.2	14.8	13.8	12.6	18.2	17.8	21.3	23.5	21.3	22.4	13.4	04.3	05.6	05.8	08.7	13.6	
28 D	08.0	10.9	10.3	16.2	16.6	04.5	33.8	18.9	05.0	11.5	-26.6	26.2	26.2	28.5	-2.9	23.8	23.8	27.7	14.7	18.4	24.0	17.7	06.9	11.1	14.8	
29	01.9	02.9	08.4	07.7	01.4	09.6	12.8	09.7	12.5	17.7	17.4	18.2	12.1	08.9	06.9	09.2	08.7	10.9	13.0	13.4	07.3	05.8	06.8	09.2	09.7	
30																		10.9	11.3	08.3	05.2	06.0	07.9	09.7		
31																										
Mean	09.6	10.1	08.4	09.5	07.4	04.4	04.7	04.8	07.3	12.1	13.3	18.4	18.5	22.9	21.5	23.0	21.8	19.5	13.9	10.3	08.1	07.7	07.5	07.8	12.2	

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 35 Meanook

$Z = 58,500 \gamma +$

September 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	471	467	466	466	464	466	464	462	449	450	455	460	465	458	457	456	462	460	465	471	478	473	477	480	464	
2	492	489	472	462	464	423	444	465	444	446	450	449	457	450	458	467	465	465	475	480	486	480	481	481	464	
3	471	478	473	473	471	465	468	468	439	442	445	438	449	442	430	438	445	445	469	475	481	493	489	485	462	
4	473	467	473	461	466	481	351	372	385	385	394	416	446	439	426	438	450	477	486	494	496	480	484	507	448	
5	506	478	464	463	462	461	460	392	297	370	434	439	381	451	432	453	448	448	452	486	489	489	484	482	447	
6 Q	494	494	500	517	481	500	480	462	459	458	457	457	460	460	459	459	459	457	457	457	457	459	462	461	469	
7	461	460	459	458	457	462	481	462	439	275	275	424	412	407	248	340	447	469	475	475	482	491	505	501	432	
8	492	508	493	489	486	472	490	464	451	440	446	407	419	451	469	459	454	454	459	485	491	498	500	488	469	
9	486	486	480	471	473	489	480	469	465	461	457	451	430	407	383	405	386	414	459	463	464	467	480	473	454	
10	480	469	463	461	459	464	469	461	291	275	455	472	457	439	444	455	464	465	464	467	469	480	491	519	451	
11	491	481	468	463	455	458	459	459	441	433	311	400	439	455	461	457	457	457	454	467	471	477	477	468	452	
12	467	463	461	465	463	462	426	313	318	448	450	448	372	395	437	460	460	466	471	479	476	482	478	471	443	
13	462	458	461	457	464	486	480	461	455	457	460	459	461	459	450	446	450	451	448	453	457	462	471	475	460	
14	484	477	466	457	457	455	459	458	399	443	460	451	453	454	455	449	437	424	448	446	451	464	464	471	453	
15 Q	459	451	455	457	457	462	469	460	403	437	457	452	450	448	448	445	444	445	445	450	455	453	459	461	451	
16	481	479	475	478	479	481	485	483	479	479	473	472	474	477	468	466	461	450	500	543	587	622	574	520	495	
17	455	438	498	514	541	529	501	511	533	433	376	369	452	460	473	482	498	492	522	549	538	524	533	528	490	
18 D	598	532	402	393	458	439	566	646	712	789	757	741	256	287	830	393	402	513	529	555	566	515	522	588	541	
19 D	550	615	598	579	514	472	501	447	488	525	537	471	501	553	385	413	469	482	512	533	524	519	526	533	510	
20	536	515	511	507	504	519	488	385	471	513	538	529	519	514	514	510	504	498	501	500	509	514	514	520	506	
21	522	511	501	499	497	500	512	514	512	502	485	477	477	482	479	479	479	487	489	484	477	489	496	509	494	
22 D	535	597	589	592	336	243	241	398	484	533	743	709	605	813	813	630	576	522	533	560	533	534	543	552	551	
23 D	563	569	382	338	322	554	727	727	1007	984	527	735	576	513	542	576	457	528	555	578	545	556	524	533	580	
24	554	554	570	546	507	504	522	455	457	506	489	511	527	520	525	514	514	515	519	522	520	520	519	515	517	
25 Q	515	512	512	508	507	507	507	502	500	500	500	497	498	500	502	501	504	504	504	500	500	511	514	515	505	
26 Q	512	510	509	509	504	506	502	497	471	450	444	427	473	485	468	483	489	489	495	500	511	514	514	522	491	
27	511	519	533	520	513	513	425	398	414	430	446	462	486	451	436	423	444	507	565	511	573	579	590	540	491	
28 D	543	530	567	527	555	522	317	463	597	473	473	792	635	446	716	759	495	522	588	643	692	682	541	511	566	
29	382	341	468	511	487	557	554	540	535	538	511	500	456	441	414	437	468	468	476	527	526	519	520	522	487	
30																		525	543	543	540	524	526	532		
31																										
Mean	498	495	489	484	473	478	473	469	476	475	473	494	465	467	484	472	465	472	490	502	507	508	505	505	484	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36 Meanook

September 1946

Day	Horizontal Intensity						Declination						Vertical Intensity									
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 25° E +			Minimum 25° E +			Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +						
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$				
1 Q	22	20	781	19	17	701	80	16	11	27.3	19	50	02.4	24.9	23	57	482	15	30	455	27	
2	00	27	798	18	35	703	95	05	20	30.9	21	03	01.1	29.8	00	27	502	05	15	389	113	
3	23	05	796	15	15	726	70	15	04	27.2	21	07	02.7	24.5	00	25	504	11	34	283	221	
4	03	10	816	10	23	143	673	10	22	61.9	10	50	-30.0	91.9	10	06	529	10	36	237	292	
5	03	25	797	08	55	536	261	09	10	32.1	07	50	-11.6	43.7	00	28	515	08	50	205	310	
6 Q	05	03	801	18	30	735	66	03	48	31.3	05	33	01.9	29.4	03	29	547	10	12	450	97	
7	08	00	805	09	50	258	547	10	37	66.7	08	05	03.9	62.8	13	10	529	14	14	167	362	
8	07	23	831	10	24	619	212	08	30	23.8	07	52	-2.9	26.7	01	35	513	12	03	382	131	
9	05	42	786	16	00	651	135	15	23	23.5	18	50	-3.1	26.6	05	22	502	14	57	356	146	
10	09	40	851	07	52	340	511	09	18	37.7	08	55	-22.3	60.0	23	34	547	09	08	173	374	
11	11	55	798	09	38	622	176	15	33	29.5	20	10	01.9	27.6	00	04	502	10	26	214	288	
12	06	26	809	12	32	538	271	06	35	30.3	08	41	-7.7	38.0	22	00	494	08	07	281	213	
13	05	58	791	20	23	711	80	05	55	30.0	21	35	00.0	30.0	05	44	507	15	00	439	68	
14	07	00	809	18	43	706	103	15	40	23.2	22	27	01.7	21.5	00	47	489	17	07	399	90	
15 Q	09	16	787	08	25	693	94	15	20	23.9	08	30	03.3	20.6	06	23	480	08	29	381	99	
16	23	45	860	17	50	530	330	17	59	39.6	00	10	05.2	34.4	21	52	636	18	48	427	209	
17	23	59	884	09	29	481	403	02	12	27.5	00	40	04.6	22.9	02	57	571	11	27	322	249	
18 D	01	37	1190	08	07	-508	1698	08	20	174.5	12	34	-120.5	295.0	14	37	969	13	00	-108	1077	
19 D	01	05	1096	12	22	-118	1214	12	35	126.6	06	48	-47.5	174.1	12	57	800	15	45	372	428	
20	09	15	853	06	59	639	214	06	25	28.8	06	53	03.9	24.9	00	05	555	07	42	357	198	
21	22	03	840	17	16	643	197	17	18	49.8	23	35	-5.1	54.9	00	21	533	11	15	452	81	
22 D	04	26	1147	11	40	-362	1509	13	50	184.9	08	44	-115.9	300.8	13	29	1321	08	49	166	1155	
23 D	09	45	1237	08	52	-624	1861	08	30	206.1	07	25	-223.3	429.4	08	42	1180	13	55	182	998	
24	00	20	1059	08	04	514	545	03	42	35.8	03	50	-8.3	44.1	04	40	608	08	07	368	240	
25 Q	07	30	767	11	24	705	62	17	03	26.9	21	00	03.8	23.1	23	12	522	08	10	487	35	
26 Q	15	31	770	11	24	643	127	16	50	25.2	11	00	05.1	20.1	23	28	527	11	18	377	150	
27	06	18	788	16	55	469	319	17	17	33.3	19	48	-8.2	41.5	20	18	662	06	55	301	361	
28 D	21	27	1043	07	25	-273	1316	13	26	105.3	10	20	-84.1	189.4	15	05	1061	06	30	166	895	
29	01	15	1217	14	05	539	678	10	37	21.8	01	24	-28.1	49.9	08	25	597	01	32	315	282	
30																						
31																						
Mean			890			412	478			54.7			-23.3	78.0			623			310	313	
No. days			29			29	29			29			29	29			29			29	29	

**HORIZONTAL INTENSITY**  
 Mean values for periods of sixty minutes, Universal Time

Table 37 Meanook

H = 12,000  $\gamma$  +

October 1946

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	745	761	760	753	737	744	623	255	492	695	461	557	581	575	717	749	753	735	747	753	753	748	739	741	674
2	748	756	774	773	760	751	732	699	737	739	746	712	644	629	731	748	730	740	746	745	746	747	740	751	734
3	739	750	759	759	748	735	757	753	748	759	761	750	681	654	697	732	721	731	732	739	743	747	747	750	737
4	760	750	769	763	766	787	758	713	626	762	766	751	756	763	754	720	740	734	739	732	744	746	746	759	748
5	756	759	761	772	763	759	756	741	752	727	699	749	677	533	633	754	726	723	750	740	749	757	760	764	732
6	755	763	763	789	805	694	725	562	628	772	771	764	756	755	746	742	734	725	717	719	736	766	757	739	736
7	749	761	759	764	759	767	720	708	597	537	327	399	741	749	665	693	752	751	749	755	760	761	762	762	697
8 Q	759	762	762	762	761	762	765	765	767	767	767	769	771	771	768	760	751	751	752	759	763	769	770	769	763
9 D	775	780	843	937	886	794	657	770	635	617	748	744	709	762	747	740	734	727	724	740	744	790	808	763	757
10	755	765	761	758	753	758	761	750	748	744	720	727	755	764	762	750	732	730	724	722	728	748	759	770	748
11	762	763	763	765	775	765	763	763	761	765	764	764	762	755	745	748	739	736	724	732	744	755	759	757	755
12	769	752	757	765	767	745	771	763	763	767	768	768	768	763	756	755	741	740	734	738	746	752	754	758	757
13 Q																									
14																									
15																									
16																									
17 Q																									
18 Q	754	758	758	760	760	758	758	758	754	750	750	762	758	754	751	748	744	744	743	744	749	750	749	758	753
19	764	764	768	771	769	769	768	766	765	769	771	771	774	771	768	762	743	729	742	739	750	756	764	753	761
20 D	758	758	761	762	845	790	857	720	659	716	776	773	759	753	755	758	754	741	732	740	723	728	755	754	755
21	751	749	750	751	753	755	755	758	758	755	765	764	764	762	755	744	737	736	733	737	751	752	760	761	752
22	751	761	761	763	761	762	756	742	735	760	768	755	737	765	764	754	740	735	733	740	749	751	750	750	752
23	752	752	754	750	743	722	733	746	740	758	752	762	762	762	753	748	736	726	733	747	754	753	754	761	748
24	759	761	762	762	762	764	765	767	761	761	764	738	705	750	771	756	741	734	733	741	747	761	758	752	753
25	758	760	761	764	762	758	743	721	656	768	768	768	766	765	758	738	730	734	742	749	760	758	761	757	751
26 D	783	812	810	827	801	763	810	668	587	663	664	749	773	768	741	731	740	718	709	729	755	921	795	944	761
27 D	980	1108	788	802	615	713	487	225	132	105	345	401	312	640	773	705	721	745	729	735	743	755	755	749	627
28	749	751	748	747	748	726	717	643	665	764	755	743	724	742	743	731	728	722	724	732	741	743	745	742	732
29	749	758	760	760	759	756	744	729	667	637	704	751	743	745	755	758	742	735	729	724	731	735	744	751	736
30 Q	749	754	754	757	759	755	763	751	742	732	735	755	760	773	770	763	757	747	738	735	737	742	749	752	751
31 D	763	763	765	763	763	765	751	531	679	765	710	584	687	728	759	747	689	703	709	722	736	748	744	749	722
Mean	765	774	767	773	765	754	738	683	675	702	705	713	716	729	744	744	737	733	733	738	749	759	757	762	738

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 38 Meanook D = 25° E + ... ' October 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	10.3	09.7	09.3	03.8	17.1	13.4	12.3	30.6	06.4	14.2	25.7	20.3	19.2	22.4	16.9	18.2	12.2	08.0	05.1	04.7	07.2	08.3	08.6	08.9	13.0
2	08.4	06.2	09.9	14.2	04.5	07.4	12.1	18.7	14.9	14.5	14.4	09.2	06.4	05.5	12.2	14.6	11.0	07.9	08.2	08.2	07.4	07.3	08.4	07.9	09.9
3	11.5	07.4	06.6	06.1	26.9	06.7	11.7	13.0	12.6	11.7	11.4	10.1	07.6	14.4	12.9	13.1	10.6	10.3	07.6	07.1	08.2	09.6	09.3	08.8	10.6
4	07.7	10.5	11.3	05.5	04.4	06.7	09.5	08.1	15.9	15.8	13.4	12.4	10.2	14.4	14.4	09.7	04.3	06.8	06.9	06.1	06.4	08.1	09.3	09.0	09.5
5	08.4	07.4	07.1	10.1	06.2	06.7	07.5	11.0	16.7	12.2	17.1	15.0	15.9	13.3	17.1	14.4	10.3	07.3	06.9	04.1	05.5	07.3	08.1	07.4	10.1
6	07.9	05.8	07.6	06.0	11.7	05.9	06.0	20.9	11.3	14.4	14.4	13.6	14.5	14.9	13.5	11.5	10.3	06.4	05.4	03.2	04.9	05.0	04.3	03.9	09.2
7	06.4	07.7	08.8	08.1	07.9	09.0	08.4	16.5	21.4	29.1	34.5	16.1	22.1	17.8	07.4	03.7	06.2	06.2	02.2	04.7	05.7	07.1	08.6	08.4	11.2
8 Q	08.4	07.7	08.1	07.5	08.5	08.4	08.2	08.2	09.1	10.0	10.7	11.3	12.2	14.2	16.3	15.8	13.2	10.8	06.9	06.0	06.3	07.6	08.4	07.0	09.6
9 D	03.5	00.6	-7.9	00.3	-0.5	13.2	24.8	06.6	13.6	12.0	12.0	16.6	16.6	15.0	16.4	14.6	14.2	12.2	05.6	04.7	06.2	03.5	12.9	09.9	09.4
10	09.6	08.8	09.6	08.2	08.2	09.9	07.3	10.3	11.7	10.9	05.8	11.9	13.2	19.4	17.9	16.3	12.9	10.5	11.0	08.2	05.9	05.9	03.5	04.5	10.1
11	08.0	07.3	07.1	08.3	10.7	07.2	08.2	08.3	10.3	10.9	10.5	10.9	11.1	17.0	14.4	16.3	15.1	11.3	09.3	06.0	05.5	07.3	08.2	07.4	09.9
12	05.9	14.7	09.6	02.8	12.2	11.7	07.4	07.9	11.0	10.9	08.2	11.4	12.2	18.2	16.2	15.4	14.0	10.9	10.2	07.1	05.7	06.6	05.8	06.0	10.1
13 Q																									
14																									
15																									
16																									
17 Q																									
18 Q	07.0	07.0	07.2	07.4	07.9	11.4	09.4	08.9	10.3	10.0	09.7	11.8	11.8	12.6	14.9	13.6	11.7	10.0	07.4	07.2	07.1	05.6	05.2	05.0	09.2
19	05.4	05.7	06.6	07.1	07.2	08.0	08.2	09.3	12.4	10.3	09.6	10.0	10.0	11.8	12.9	14.6	14.0	04.9	01.6	02.8	02.9	02.6	03.1	04.7	07.7
20 D	05.9	07.4	05.8	05.2	09.1	08.6	06.0	05.7	09.1	12.2	13.5	14.9	15.3	14.4	17.2	18.0	14.2	10.8	05.0	05.2	03.5	04.7	07.5	08.3	09.5
21	09.0	08.6	08.6	09.1	08.6	08.6	08.3	08.4	08.1	07.2	08.6	08.6	09.2	11.9	15.1	16.3	14.3	11.5	07.7	07.7	07.4	06.7	06.1	05.7	09.2
22	06.3	07.1	07.3	07.3	07.3	07.4	08.6	03.3	05.5	11.1	11.2	11.2	05.3	11.4	15.7	16.1	13.2	11.2	06.7	06.7	07.4	08.2	07.9	07.0	08.8
23	06.0	05.7	05.9	07.7	10.1	14.6	13.4	15.1	15.3	13.2	14.1	12.4	10.5	11.3	10.2	12.2	13.5	08.8	07.4	06.1	06.0	07.1	06.6	06.1	10.0
24	07.1	07.0	06.8	06.5	06.5	07.4	08.3	08.6	09.6	11.3	14.0	14.8	07.4	08.3	14.2	13.2	08.7	05.0	02.0	03.3	05.5	05.2	05.8	05.7	08.0
25	06.6	05.9	06.6	08.8	06.7	09.8	15.9	06.2	10.9	08.4	09.5	10.1	10.5	11.9	13.7	11.1	08.1	00.9	-0.3	01.4	04.0	05.6	04.7	03.4	07.5
26 D	00.2	03.5	10.4	18.8	18.3	10.6	12.9	11.3	-3.2	10.3	08.6	21.2	14.4	16.8	15.4	09.5	07.0	05.7	06.1	06.4	04.7	-0.1	03.5	04.7	09.0
27 D	19.7	19.7	-4.8	00.9	11.3	08.6	12.0	22.9	15.5	37.2	38.4	27.5	19.2	08.4	12.8	13.6	11.3	12.0	07.8	10.9	09.3	07.2	07.6	11.3	13.2
28	07.6	08.2	09.1	19.9	19.0	13.1	14.4	04.3	01.8	09.6	12.0	09.5	07.6	10.3	13.7	13.4	15.1	11.7	09.5	07.5	06.5	07.0	06.4	06.3	10.1
29	05.7	13.3	10.1	08.2	08.2	07.9	09.3	12.1	08.9	12.2	08.9	11.5	12.5	09.9	09.9	11.3	10.8	11.5	05.9	03.7	04.5	05.6	06.4	05.5	08.9
30 Q	05.7	06.4	06.4	07.4	07.3	14.4	10.5	09.6	11.5	10.0	08.7	12.2	11.5	10.9	11.5	11.5	10.2	10.3	08.3	06.7	06.2	05.6	05.4	05.6	08.9
31 D	05.7	06.2	06.4	06.6	06.7	07.2	07.2	10.8	13.9	12.1	20.9	20.3	19.0	15.9	11.9	09.5	03.8	-1.3	-4.2	-1.0	02.8	02.0	01.5	02.0	07.7
Mean	07.5	07.9	06.8	07.8	09.7	09.3	09.4	11.4	10.9	13.1	14.1	13.6	12.5	13.6	14.0	13.4	10.8	08.5	06.0	05.6	05.9	06.0	06.7	06.6	09.6

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 39 Meanook

Z = 58,500  $\gamma$  +

October 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	529	517	513	471	469	489	412	548	527	466	367	415	380	365	422	469	478	487	515	534	513	507	508	508	475	
2	466	472	493	530	516	493	488	467	469	467	427	413	424	435	471	487	486	489	493	493	493	493	494	502	478	
3	505	510	519	515	407	440	482	488	478	484	488	477	397	335	375	448	469	478	482	484	493	489	490	488	468	
4	489	504	525	518	533	536	519	490	383	472	492	478	482	475	478	468	481	487	484	493	490	491	488	489	489	
5	489	490	509	521	502	484	489	469	469	437	375	446	407	291	318	435	460	486	502	492	488	482	482	489	458	
6	491	502	521	526	488	448	440	451	324	434	489	487	479	479	480	480	480	486	502	514	534	532	527	513	486	
7	512	513	510	500	499	431	416	424	398	314	430	426	423	457	424	406	437	460	478	482	491	492	489	481	454	
8 Q	481	480	479	489	482	486	490	490	488	480	478	478	481	480	478	478	473	475	476	478	480	481	478	477	481	
9 D	480	488	413	493	472	364	299	491	532	467	482	477	469	500	491	491	482	492	491	494	494	521	558	502	477	
10	489	498	486	481	480	485	488	468	454	467	457	448	471	475	476	480	479	479	491	494	493	500	494	513	481	
11	504	494	499	502	494	488	481	481	480	480	481	480	477	474	466	466	469	481	488	491	489	488	487	482	485	
12	486	494	493	505	489	432	491	487	477	474	473	464	463	470	470	470	473	478	485	490	487	485	484	480	479	
13 Q																										
14																										
15																										
16																										
17 Q																										
18 Q	478	479	479	477	477	475	476	473	474	467	477	476	476	478	472	472	469	467	466	471	476	478	478	477	474	
19	480	480	478	477	477	477	478	479	480	482	480	475	476	477	478	478	478	475	472	471	480	491	528	528	482	
20 D	518	492	482	502	500	503	500	500	381	375	494	486	478	477	474	469	473	472	482	473	460	435	441	438	471	
21	455	475	481	479	478	475	466	469	474	467	477	476	476	478	477	477	473	475	480	482	482	486	485	481	476	
22	478	478	478	478	476	480	478	394	375	438	465	457	449	466	475	475	477	475	482	488	485	482	480	479	464	
23	480	480	485	493	481	436	428	434	402	440	439	454	457	465	469	472	469	478	486	491	488	486	481	480	466	
24	478	479	477	479	480	480	478	473	452	445	453	423	424	432	445	453	459	465	478	480	481	489	488	491	466	
25	508	515	510	509	503	484	462	424	418	480	480	479	478	478	480	477	469	469	472	487	502	504	506	522	484	
26 D	558	599	585	541	504	454	504	487	421	467	423	461	489	489	469	476	484	485	502	523	547	566	553	502	504	
27 D	316	324	324	493	475	510	510	599	802	604	405	540	416	402	489	496	520	507	513	521	512	525	521	518	493	
28	530	524	523	522	485	488	482	446	438	509	506	504	497	508	502	504	513	509	511	518	520	519	519	520	504	
29	534	533	526	520	514	512	482	454	403	401	461	484	486	497	498	502	506	513	520	520	516	522	528	524	498	
30 Q	522	522	524	529	536	510	526	505	489	483	483	486	491	489	500	506	506	508	508	505	506	511	512	513	507	
31 D	511	509	506	510	511	512	505	447	448	483	446	448	460	487	505	493	497	500	513	522	534	543	549	552	500	
Mean	491	494	493	502	490	476	476	471	459	461	459	467	458	456	465	474	479	484	491	496	501	504	502	498	481	

MEANOOK MAGNETIC OBSERVATORY—1946

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40 Meanook

October 1946

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 25° E +			Minimum 25° E +			Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range		
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$
1	06	06	790	07	40	056	734	10	32	42.2	08	00	-21.8	64.0	07	30	651	13	04	312	339
2	03	44	809	13	35	582	227	03	07	26.3	03	40	00.4	25.9	03	08	545	12	15	387	158
3	05	52	811	13	13	621	190	04	30	46.0	12	43	-0.2	46.2	03	43	526	13	05	313	213
4	05	53	820	08	00	526	294	08	32	24.0	07	47	-10.7	34.7	05	10	554	08	36	329	225
5	03	15	788	13	57	421	367	13	57	32.5	07	38	-1.6	34.1	03	14	542	13	45	194	348
6	04	39	903	07	55	320	583	08	05	45.8	05	12	-16.0	61.8	20	58	546	08	12	200	346
7	05	34	810	09	47	159	651	09	46	62.0	11	04	-10.0	72.0	10	50	623	10	21	261	362
8 Q	22	46	789	18	07	742	47	15	31	17.7	23	55	05.0	<u>12.7</u>	03	33	494	20	07	469	25
9 D	03	04	1020	08	53	529	491	06	02	50.9	02	56	-28.4	79.3	22	35	594	06	16	170	424
10	01	14	813	10	03	681	132	13	52	23.8	23	18	-0.2	24.0	23	22	528	10	00	405	123
11	03	23	792	18	13	706	86	14	00	19.0	20	34	02.3	16.7	00	14	515	15	14	451	64
12	04	43	809	05	14	670	139	05	18	26.7	05	05	-21.6	48.3	03	58	556	05	10	340	216
13 Q																					
14																					
15																					
16																					
17 Q																					
18 Q	23	55	766	17	28	736	<u>30</u>	15	31	18.3	23	14	03.9	14.4	23	55	481	18	30	464	<u>17</u>
19	22	51	785	18	03	725	60	15	50	19.8	20	53	-1.5	21.3	23	05	557	18	07	462	95
20 D	04	42	980	08	14	558	422	04	28	28.0	08	55	-4.4	32.4	07	42	548	08	53	232	316
21	11	50	784	18	05	714	70	15	29	20.3	23	45	04.7	15.6	20	48	492	00	10	439	53
22	09	47	779	08	03	708	71	15	26	19.2	07	30	-1.5	20.7	19	52	491	08	06	331	160
23	09	38	771	05	15	707	64	05	49	24.3	05	05	03.5	20.8	03	34	504	08	52	391	113
24	10	15	776	12	21	680	96	11	46	17.8	18	24	00.8	17.0	21	40	499	11	46	394	105
25	08	55	796	08	08	482	314	06	58	21.2	07	53	-3.2	24.4	23	55	534	08	13	349	185
26 D	23	46	1069	08	10	399	670	04	49	25.8	08	40	-15.1	40.9	01	23	626	08	30	340	286
27 D	01	35	<u>1176</u>	08	28	<u>-156</u>	<u>1332</u>	07	25	<u>81.5</u>	02	33	<u>-58.8</u>	<u>140.3</u>	08	27	<u>952</u>	01	09	<u>159</u>	<u>793</u>
28	09	07	773	07	35	578	195	03	55	31.3	07	57	-11.0	42.3	00	59	535	08	16	371	164
29	01	46	774	09	48	566	208	09	47	21.9	08	13	02.7	19.2	01	36	542	09	40	372	170
30 Q	06	08	779	09	55	714	65	05	10	17.8	04	28	02.6	15.2	06	03	548	10	55	475	73
31 D	09	30	781	07	50	420	361	10	37	23.5	17	15	-5.7	29.2	23	57	565	10	56	428	137
Mean			836			532	304			30.3			-7.1	37.4			560			348	212
No. days			26			26	26			26			26	26			26			26	26

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 41 Meanook

H = 12,000  $\gamma$  +

November 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	769	799	816	827	798	820	809	559	389	345	284	291	390	531	625	587	595	687	763	765	751	765	790	769	647
2	757	763	761	763	760	758	724	672	738	758	759	738	725	746	759	765	760	746	740	734	739	742	753	759	747
3	762	763	767	767	767	767	765	766	773	769	769	767	766	765	764	763	763	757	746	747	749	754	754	757	762
4	760	762	763	763	763	763	763	763	767	768	712	717	767	773	765	770	767	752	747	746	751	760	753	756	757
5	763	767	767	767	770	780	775	756	734	679	714	748	782	782	776	771	771	765	761	767	773	778	773	777	762
6 D	778	781	783	782	796	791	796	847	743	723	606	504	763	847	654	631	731	722	742	752	753	754	755	756	741
7	743	769	769	769	784	781	765	761	762	760	760	762	763	763	762	760	748	742	740	736	742	749	748	751	758
8	756	759	761	766	762	764	763	762	763	766	767	766	756	756	764	776	769	762	741	735	741	753	756	755	757
9	740	763	769	769	768	763	764	765	769	765	731	753	762	772	779	773	767	756	746	746	756	763	755	749	760
10	771	769	768	770	766	766	766	767	766	765	769	769	768	770	770	761	756	750	727	717	703	698	730	750	755
11	754	768	795	891	774	757	758	768	743	756	748	771	781	776	775	771	756	739	725	733	737	737	746	758	763
12	767	771	773	852	823	818	844	782	727	744	768	766	761	759	756	752	747	732	727	718	727	740	747	754	765
13	755	758	763	765	765	764	764	764	758	757	762	764	762	761	764	761	753	733	731	741	741	741	740	751	756
14 Q	759	763	763	763	765	767	767	767	765	765	763	753	749	763	765	767	764	752	735	734	738	743	753	758	758
15	763	767	766	770	770	771	771	773	773	720	760	772	770	763	767	760	767	757	753	740	738	749	765	774	762
16	770	820	849	882	831	769	765	741	734	733	734	733	732	761	773	773	765	761	730	718	724	753	748	749	764
17	759	759	765	765	770	766	765	763	761	763	765	767	773	772	770	767	763	753	746	741	741	738	731	746	759
18	767	761	760	766	761	766	765	765	759	763	763	774	771	772	771	775	771	760	741	738	741	747	757	755	761
19	749	772	779	773	776	757	767	756	638	601	670	747	779	772	763	758	759	749	728	722	722	747	772	786	743
20	780	761	768	782	792	781	773	771	763	763	771	775	775	754	716	772	776	755	729	738	734	743	751	773	762
21 D	783	772	781	789	803	800	790	789	773	652	455	444	557	738	740	783	771	738	716	722	741	752	752	751	725
22	775	792	775	765	761	742	772	716	580	737	765	766	762	752	761	761	736	741	732	730	730	741	749	760	746
23	762	764	772	770	768	772	754	760	742	696	730	702	743	718	764	776	764	760	740	735	739	746	757	762	750
24 D	764	766	770	771	770	770	692	777	669	524	640	630	268	181	718	787	797	757	733	739	746	750	759	758	689
25 D	760	760	766	764	776	778	762	748	707	548	688	697	661	631	726	644	756	723	721	729	749	758	764	764	724
26	774	781	771	778	770	764	764	766	760	761	764	767	764	762	762	768	764	760	741	739	744	749	757	764	762
27 Q	771	773	776	776	770	770	770	764	764	770	775	777	778	777	774	771	767	757	746	745	750	754	758	764	767
28 Q	769	774	775	771	769	769	771	762	763	761	772	780	780	781	779	779	773	765	754	751	753	755	761	766	768
29 Q	764	764	765	775	774	774	774	774	776	774	775	777	778	777	774	776	775	771	750	746	746	750	757	758	768
30 Q	763	768	774	774	774	773	772	771	768	769	771	775	776	778	780	782	784	771	761	751	752	751	755	763	769
31																									
Mean	764	770	774	783	777	773	768	756	731	715	717	718	725	735	754	755	758	750	740	738	742	749	752	760	750



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 42 Meanook

D = 25° E + ...'

November 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	02.8	04.8	11.5	08.0	09.5	08.0	10.5	09.3	03.5	14.2	23.3	51.8	19.9	23.7	21.3	09.3	00.4	-1.4	04.0	06.8	06.8	09.6	05.8	08.0	11.3
2	08.1	08.4	08.2	07.6	07.6	07.6	27.7	14.8	13.7	11.7	10.0	07.0	05.9	07.4	11.1	12.7	11.9	09.5	04.7	05.1	04.5	05.5	06.8	06.6	09.3
3	08.1	08.3	07.3	07.3	06.8	07.1	10.3	06.9	08.6	07.8	07.8	07.8	08.2	08.6	08.9	09.3	09.8	09.2	06.0	05.4	05.3	06.1	05.7	04.9	07.6
4	06.6	06.8	06.8	06.8	07.3	06.9	07.5	08.8	08.7	08.3	06.9	06.2	12.2	12.4	08.8	11.1	11.6	10.3	06.9	04.4	03.7	03.5	06.8	06.7	07.8
5	06.4	06.6	06.0	06.4	05.8	08.3	06.4	07.6	09.7	13.1	13.6	17.3	16.6	12.8	15.2	14.2	13.4	13.2	10.5	05.9	04.4	04.4	04.7	04.5	09.5
6 D	05.5	04.8	04.7	05.3	02.4	01.9	03.3	11.1	09.9	14.5	25.6	45.1	14.2	14.9	25.1	09.0	12.4	11.2	10.0	06.9	06.3	06.6	07.6	05.4	11.0
7	07.3	07.6	07.0	07.4	08.3	11.5	07.8	07.3	07.6	08.1	08.0	09.5	09.5	09.6	11.5	12.2	12.1	11.2	10.1	09.0	06.5	05.8	06.4	06.8	08.7
8	06.6	06.6	06.9	07.1	07.5	07.3	07.3	07.3	07.4	07.4	08.4	08.8	08.8	08.4	11.8	13.1	14.2	13.4	11.5	07.4	06.2	04.8	03.9	02.7	08.1
9	03.4	03.2	04.1	06.4	07.9	06.6	07.3	08.2	07.8	06.3	04.2	09.8	14.6	17.2	13.4	14.8	13.2	11.4	08.2	05.8	03.9	01.8	04.5	02.8	07.8
10	03.2	03.7	05.3	06.5	07.3	06.8	06.8	06.8	06.8	07.9	08.4	09.1	09.5	09.6	10.4	13.4	13.3	12.7	11.5	07.8	05.5	00.9	01.1	04.7	07.5
11	04.7	03.7	10.3	10.3	08.8	08.8	08.6	10.5	13.7	07.8	11.2	07.6	08.8	10.5	11.7	13.1	16.8	14.4	10.0	07.6	06.4	04.5	03.4	04.0	09.0
12	04.4	05.8	05.4	06.6	08.8	07.8	04.7	02.7	07.6	05.5	07.8	07.9	09.8	09.8	11.7	13.1	15.4	15.4	13.5	12.3	07.9	05.9	05.7	06.8	08.4
13	06.8	07.4	07.4	08.2	08.5	08.4	12.1	07.3	07.4	06.0	07.2	06.8	09.1	09.3	09.0	11.5	15.1	17.1	09.5	07.3	03.1	05.0	02.6	05.0	08.2
14 Q	06.4	07.3	07.6	07.5	07.6	07.6	07.6	07.5	07.5	07.6	07.7	09.5	08.8	10.2	10.7	13.4	15.6	14.8	09.8	07.6	05.0	05.0	04.6	05.1	08.4
15	05.7	05.9	06.6	07.3	07.4	07.4	07.4	06.9	-2.6	19.2	19.5	12.4	13.4	15.7	16.4	15.6	15.6	15.8	07.6	12.0	06.3	03.9	03.7	03.0	09.7
16	02.8	01.0	04.7	03.3	05.6	07.5	09.2	18.2	12.1	08.8	08.7	07.4	08.5	07.6	07.4	10.9	12.4	13.6	11.9	07.8	06.4	04.7	05.6	04.7	08.0
17	05.4	06.8	06.6	12.4	06.3	06.6	06.9	06.9	07.6	08.8	09.0	08.8	08.9	09.2	09.7	11.6	13.4	10.5	10.2	08.5	06.8	05.4	02.7	03.9	07.0
18	06.1	05.7	07.9	07.6	08.1	07.6	06.9	08.9	06.3	08.8	07.3	09.2	08.8	09.7	10.9	12.4	12.9	13.2	12.0	09.3	07.9	06.0	04.2	04.0	08.4
19	03.7	04.9	06.6	05.9	06.8	-9.8	08.8	08.9	14.1	21.2	12.3	04.7	10.5	12.4	12.4	08.6	11.7	13.7	12.4	10.4	08.6	04.4	01.3	02.6	08.2
20	02.1	05.8	06.6	05.2	06.5	08.3	05.5	06.3	06.3	07.2	07.8	08.4	09.3	10.4	01.0	13.2	13.5	11.5	07.1	04.5	04.3	05.4	07.2	06.3	07.1
21 D	04.4	07.4	03.7	04.0	05.1	03.9	05.9	04.7	04.5	12.6	36.6	50.0	29.4	21.4	13.1	04.7	10.3	08.9	05.7	04.4	03.4	04.0	03.4	04.0	10.7
22	06.8	07.4	09.0	09.6	19.7	09.7	09.2	07.6	-2.1	12.2	08.3	08.8	06.4	09.7	07.8	09.8	09.4	10.0	07.6	06.4	05.0	04.9	05.9	05.8	08.1
23	06.6	13.3	08.5	07.7	08.5	14.4	09.9	07.8	07.4	05.7	09.3	05.9	11.7	05.5	10.0	13.5	12.7	12.0	09.4	06.4	05.0	04.9	04.6	04.9	08.6
24 D	05.8	06.5	06.7	07.3	06.9	06.9	04.8	10.5	12.6	05.8	13.9	22.3	36.6	42.9	21.3	16.6	16.6	12.0	11.0	07.6	05.9	15.3	15.6	15.8	13.6
25 D	06.9	07.8	08.4	10.1	12.1	04.0	03.7	07.0	12.8	05.4	12.7	21.3	25.7	07.8	09.9	08.0	11.3	05.2	-3.4	00.7	04.4	03.5	03.2	04.6	08.0
26	06.5	06.1	06.8	17.3	06.8	08.8	05.8	06.5	06.5	07.6	07.7	07.9	08.0	08.2	08.2	09.8	11.6	10.2	07.7	05.8	05.2	05.7	05.7	05.7	07.7
27 Q	06.3	06.4	06.9	06.8	06.9	07.1	06.9	06.5	06.9	05.9	06.7	07.2	07.6	07.8	08.8	10.1	12.1	11.3	10.7	08.1	06.8	05.8	05.2	05.1	07.5
28 Q	05.9	06.5	06.2	07.1	06.9	07.6	08.4	08.2	10.8	08.0	08.5	07.8	08.3	08.8	08.9	10.5	10.8	10.2	09.3	07.2	05.8	04.6	04.9	05.3	07.8
29 Q	05.8	06.8	07.0	07.2	06.9	06.6	06.1	06.0	06.4	06.4	06.8	07.0	07.5	07.8	08.4	09.3	10.6	11.7	08.0	08.0	05.7	04.8	03.7	04.4	07.0
30 Q	05.3	06.6	07.5	07.9	07.4	06.9	06.7	07.6	07.4	08.3	08.6	07.7	08.3	08.9	09.7	10.5	11.2	10.9	09.9	08.4	06.5	05.1	03.7	02.8	07.7
31																									
Mean	05.5	06.4	06.9	07.6	07.7	06.9	08.0	08.2	07.9	09.3	11.1	13.4	12.2	11.9	11.5	11.5	12.4	11.4	08.4	07.2	05.3	05.3	05.0	05.2	08.6

**VERTICAL INTENSITY**  
**Mean values for periods of sixty minutes, Universal Time**

Table 43 Meanook

$Z = 58,500 \gamma +$

November 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 D	545	558	507	521	504	527	515	482	466	457	363	372	472	378	416	396	394	467	513	513	520	545	536	510	478	
2	500	496	489	491	486	486	440	424	448	481	485	466	461	469	480	491	493	490	499	501	502	504	502	506	483	
3	513	513	502	490	488	492	490	443	488	486	486	486	486	486	486	486	491	490	487	491	496	498	493	491	490	
4	491	491	489	486	486	485	485	486	488	481	433	412	445	460	474	482	481	481	487	492	488	489	486	489	478	
5	487	490	482	481	493	515	513	494	465	471	446	461	480	494	481	485	480	481	480	479	476	478	474	477	482	
6 D	478	480	480	481	505	510	532	529	365	416	372	180	453	521	359	372	427	448	476	486	493	501	493	499	452	
7	502	501	509	504	522	495	488	489	487	481	484	481	480	480	482	484	484	489	474	480	482	486	488	489	489	
8	489	485	482	484	484	484	480	480	484	485	480	480	477	459	466	482	484	480	480	486	488	489	488	489	482	
9	494	510	514	512	500	496	495	489	482	435	414	446	453	466	480	477	479	480	481	491	492	493	486	488	481	
10	491	504	526	502	491	484	481	480	480	480	479	480	477	477	480	481	481	478	488	492	500	500	496	488	488	
11	492	510	550	581	518	495	489	473	462	475	467	480	493	484	488	484	487	485	487	486	484	482	480	478	492	
12	482	489	523	536	568	459	506	505	541	489	486	526	521	515	509	462	451	478	502	510	504	499	493	489	501	
13	488	487	482	480	478	477	477	472	471	465	464	476	477	472	471	480	487	482	480	488	491	492	491	489	480	
14 Q	484	481	480	480	478	478	477	478	479	478	476	466	463	462	478	487	489	489	485	480	482	481	482	480	479	
15	480	482	481	480	482	481	482	486	369	290	455	462	467	469	477	467	448	452	457	459	464	478	487	459		
16	510	521	477	439	413	408	372	398	423	443	457	439	464	486	491	499	485	486	493	500	513	546	513	496	470	
17	499	494	502	505	507	494	484	482	478	478	480	482	486	487	487	489	491	489	486	485	485	489	490	489	489	
18	502	500	491	485	484	480	479	479	459	467	482	480	479	478	478	486	487	485	487	491	489	490	491	490	484	
19	494	528	536	521	520	448	494	506	367	408	448	471	501	491	486	494	492	488	499	503	512	514	567	559	494	
20	527	510	502	514	536	525	513	498	492	493	491	492	482	462	455	469	475	477	482	489	493	496	493	496	494	
21 D	500	492	496	507	547	525	519	513	498	467	420	405	363	482	493	532	505	504	529	532	532	556	551	548	501	
22	542	536	550	549	482	480	495	494	526	543	514	505	508	532	545	527	520	521	510	516	518	521	516	515	519	
23	510	517	513	513	513	475	466	490	464	351	421	397	445	439	468	492	482	488	500	502	502	502	502	501	477	
24 D	500	498	494	492	502	475	416	440	427	356	370	408	473	486	448	466	500	495	502	509	515	514	513	505	471	
25 D	504	503	502	504	503	500	493	493	467	494	446	403	403	437	468	466	473	481	489	502	515	515	516	529	484	
26	523	526	537	532	515	510	509	504	499	500	493	493	491	488	486	486	495	505	500	502	503	503	502	500	504	
27 Q	499	495	493	492	493	498	499	494	488	491	493	493	490	490	491	498	498	493	496	495	499	498	496	494	494	
28 Q	494	493	492	491	492	493	486	466	467	461	471	487	484	489	490	491	492	491	495	496	494	493	494	494	487	
29 Q	493	493	492	491	489	488	486	485	491	489	490	489	488	489	489	490	493	498	486	487	491	491	494	493	490	
30 Q	496	496	499	494	493	491	489	488	487	477	478	487	488	489	489	491	493	493	492	491	491	489	496	493	490	
31																										
Mean	500	503	502	501	499	485	485	481	467	460	458	453	468	477	476	480	482	485	491	494	497	500	500	498	485	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44 Meanook

November 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 D	02 35	908	10 07	-65	<u>973</u>	11 40	55.6	09 52	-44.0	<u>99.6</u>	12 27	526	11 14	167	359
2	08 17	792	07 15	625	167	06 47	45.8	07 29	02.8	43.0	23 47	513	07 07	399	114
3	07 17	791	19 20	742	49	06 47	18.0	07 34	01.3	16.7	01 07	523	07 35	380	143
4	12 45	786	10 53	652	134	12 02	17.5	11 05	-5.8	23.3	19 20	496	11 11	380	116
5	05 47	808	09 45	580	228	11 45	29.1	20 35	01.8	27.3	05 48	542	10 42	370	172
6 D	07 52	956	11 17	352	604	11 42	55.9	08 07	-15.2	71.1	07 36	556	11 26	<u>047</u>	<u>509</u>
7	04 22	812	00 03	722	90	05 29	17.5	02 07	04.4	13.1	04 19	541	19 06	472	69
8	15 10	788	13 03	726	62	16 41	16.3	23 42	01.8	14.5	23 34	494	13 03	439	55
9	13 54	795	10 33	710	85	13 32	19.4	21 35	-0.9	20.3	01 45	517	09 52	392	125
10	03 05	784	21 47	688	96	15 34	16.6	21 45	-2.3	18.9	02 31	545	12 53	467	78
11	03 06	<u>961</u>	08 20	710	251	07 53	23.0	11 27	-2.7	25.7	03 45	608	08 47	453	155
12	04 52	<u>961</u>	05 12	685	276	04 03	25.0	04 37	-8.8	33.8	04 15	<u>633</u>	16 25	423	210
13	06 52	771	18 40	718	53	18 00	18.9	20 55	00.0	18.9	20 55	502	14 38	454	48
14 Q	15 40	783	12 33	718	65	17 43	18.1	22 34	01.8	16.3	15 42	495	12 57	450	45
15	08 15	843	09 51	629	214	10 00	38.5	08 28	-13.6	52.1	10 30	496	09 15	254	242
16	03 03	949	12 16	698	251	07 35	33.0	03 44	-4.0	37.0	21 49	574	06 37	340	234
17	03 52	787	22 22	730	57	16 53	17.3	22 32	01.7	15.6	04 20	513	08 35	472	41
18	13 32	786	19 45	732	54	17 50	14.4	08 17	00.1	14.3	00 52	510	08 20	413	97
19	22 50	853	09 23	489	364	09 48	39.3	05 45	-25.5	64.8	22 51	618	09 23	174	444
20	15 38	805	14 12	685	120	17 55	21.8	14 29	-7.9	29.7	04 12	556	12 17	297	259
21 D	05 38	814	10 50	288	526	11 15	<u>77.6</u>	15 00	-5.4	83.0	14 03	562	12 15	298	264
22	01 12	811	08 18	490	321	04 25	38.5	08 23	-12.5	51.0	03 20	567	05 00	434	133
23	05 42	797	09 16	614	183	05 26	23.1	13 34	-2.9	26.0	01 23	527	09 25	311	216
24 D	07 30	816	13 06	<u>-103</u>	919	13 44	57.1	05 52	-4.3	61.4	05 11	523	09 20	312	211
25 D	05 16	798	09 11	404	394	12 00	36.6	18 35	-5.0	41.6	23 30	537	11 14	380	157
26	03 36	806	19 21	736	70	03 20	28.9	02 25	04.2	24.7	03 12	559	15 22	478	81
27 Q	10 56	785	18 25	744	41	16 17	13.4	08 04	04.6	08.8	06 44	504	07 51	475	29
28 Q	06 04	784	07 35	744	40	08 03	15.1	06 54	-2.4	17.5	06 00	500	07 48	446	54
29 Q	02 32	781	18 56	743	<u>38</u>	17 31	12.4	23 02	02.9	<u>09.5</u>	22 54	502	07 32	484	<u>18</u>
30 Q	16 00	789	21 15	747	42	17 00	13.1	23 45	02.5	10.6	02 32	500	09 45	457	43
31															
Mean		823		598	225		28.6		-4.4	33.0		534		377	157
No. days		30		30	30		30		30	30		30		30	30

HORIZONTAL INTENSITY  
Mean values for periods of sixty minutes, Universal Time

Table 45 Meanook

H = 12,000  $\gamma$  +

December 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	769	772	771	771	770	771	772	772	771	773	773	775	775	775	775	777	770	749	744	738	749	753	756	749	765
2	756	769	766	762	764	763	763	764	766	772	769	773	778	771	759	777	778	765	745	742	743	749	753	756	763
3	759	768	793	770	774	771	762	762	744	720	707	746	762	772	770	768	765	764	758	756	754	752	757	765	759
4	771	769	775	772	771	768	761	751	771	775	775	775	771	772	774	774	775	775	772	768	767	771	772	778	771
5 D	781	784	785	785	782	783	783	780	768	787	771	743	725	782	781	773	744	760	762	758	754	757	756	771	769
6	774	777	778	788	834	823	805	783	778	771	770	770	771	774	771	771	768	767	754	754	751	754	757	766	775
7	782	785	799	806	814	800	791	780	775	769	766	768	768	771	772	765	737	723	735	747	749	751	753	759	769
8	757	774	778	778	778	775	774	782	787	781	784	784	784	776	772	771	764	764	757	752	753	758	764	770	772
9 Q	770	779	780	776	779	779	781	781	779	778	779	778	781	778	773	773	767	757	746	750	741	751	762	770	770
10 D	772	779	786	787	787	783	778	776	772	768	772	756	762	777	766	725	756	772	758	751	752	755	749	764	767
11 D	779	786	786	786	784	785	779	776	773	760	726	760	787	783	754	764	754	754	736	713	705	730	752	765	762
12 D	771	768	778	785	785	783	777	773	771	771	763	630	701	740	734	742	749	753	733	732	740	751	754	755	752
13	769	780	783	783	780	779	776	768	734	779	774	776	779	772	758	764	776	764	752	751	754	757	763	769	768
14 Q	775	779	782	782	782	786	784	783	782	780	784	781	779	781	783	779	775	769	757	745	753	759	760	769	775
15 Q	777	778	780	783	784	784	784	783	781	779	770	774	778	783	783	783	783	775	765	755	754	755	760	770	775
16	776	777	782	783	785	786	783	783	777	778	783	783	783	785	785	786	783	778	768	765	764	771	766	760	778
17	778	775	775	775	781	796	793	785	689	689	687	724	761	747	767	778	781	775	763	755	754	754	757	767	759
18	778	777	771	774	778	786	767	790	782	781	779	782	784	779	772	778	781	778	768	763	759	762	764	771	775
19 D	777	779	772	765	768	764	758	698	587	482	581	616	385	429	696	700	698	752	737	733	744	754	758	762	687
20 Q	763	756	755	760	762	768	764	751	749	747	742	744	758	768	768	767	769	767	759	752	748	748	744	748	757
21	753	756	759	759	761	761	765	763	668	426	636	770	786	751	745	748	766	766	763	756	751	750	749	758	736
22	769	766	778	781	781	782	768	755	723	647	767	755	747	758	785	786	774	773	754	755	755	757	764	760	
23	772	775	778	778	782	786	786	786	787	792	780	760	706	661	777	778	778	773	756	756	756	759	757	765	766
24	766	771	778	786	800	783	774	770	772	768	766	766	768	769	764	769	769	759	752	760	799	793	749	760	771
25	743	726	726	754	765	737	763	776	787	733	719	684	672	667	726	774	776	765	755	754	756	756	728	771	742
26	768	765	764	760	760	765	758	751	705	711	749	600	564	688	748	721	756	766	744	741	746	750	755	760	733
27	759	767	768	799	808	802	801	779	728	736	771	764	770	772	776	780	777	773	747	743	753	763	754	771	769
28	769	781	774	766	769	769	770	731	665	762	766	753	745	748	770	777	785	778	762	753	746	747	754	761	758
29	766	766	770	774	778	770	766	727	742	779	778	774	758	754	774	780	778	777	770	754	754	753	754	758	765
30 Q	766	769	771	771	770	774	777	776	774	774	776	777	781	780	781	781	780	775	770	758	753	754	760	764	771
31	772	770	766	766	760	765	762	770	774	775	777	781	781	772	781	786	787	781	775	761	757	758	762	769	771
Mean	769	772	778	776	780	778	775	768	750	740	753	749	744	750	766	768	768	766	755	751	752	756	754	764	762

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 46 Meanook

D = 25° E + ... †

December 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	04.8	06.1	06.5	06.9	06.7	06.5	06.5	06.5	07.2	06.9	07.0	07.1	07.5	08.0	08.7	10.4	12.4	04.4	-1.0	-1.3	00.0	02.5	03.0	04.3	05.7	
2	06.2	07.3	07.3	07.5	08.9	09.6	11.7	10.3	07.5	06.9	07.0	07.9	09.0	09.5	05.1	08.0	11.4	08.9	06.0	05.1	04.3	03.8	03.2	01.1	07.2	
3	-2.0	-0.2	06.7	06.0	08.9	07.4	08.6	08.1	06.2	04.4	05.4	11.8	06.7	06.7	08.4	08.0	07.7	08.5	07.3	05.6	06.1	06.2	06.1	05.8	06.4	
4	06.7	06.9	06.9	09.9	06.7	06.9	08.0	06.0	09.0	07.4	07.9	07.9	06.9	06.7	07.4	07.9	08.9	08.8	08.1	05.6	04.8	04.9	05.3	04.8	07.1	
5 D	05.6	05.6	05.6	07.4	05.3	05.1	06.0	08.7	14.6	08.6	09.8	13.2	13.1	12.5	13.0	14.2	08.5	01.0	03.5	04.0	04.8	01.0	01.1	04.0	07.3	
6	06.0	03.6	05.0	05.8	-4.4	00.1	04.0	03.1	04.8	05.3	07.5	06.9	07.8	08.6	09.3	09.3	10.3	08.7	07.9	05.9	05.1	04.0	02.4	04.3	05.5	
7	05.0	06.3	09.6	11.6	08.6	10.2	08.7	06.3	05.5	04.8	06.9	07.8	09.1	09.1	09.3	11.6	07.5	01.8	03.8	05.3	04.6	03.4	04.1	04.8	06.9	
8	03.8	03.3	06.5	04.9	09.1	06.5	04.8	05.3	04.9	05.1	07.1	08.0	08.9	08.2	08.9	09.6	09.6	08.7	07.8	07.2	04.8	04.0	03.5	03.8	06.4	
9 Q	04.0	05.3	06.0	06.7	07.2	07.0	06.7	04.3	04.4	05.3	07.4	08.2	08.7	09.2	09.3	10.4	11.1	10.0	08.5	07.4	05.3	03.6	02.9	02.6	06.7	
10 D	02.9	03.6	06.8	06.6	06.9	06.3	06.0	06.7	06.1	05.0	06.4	09.2	05.3	09.2	10.3	07.7	04.5	08.5	07.6	05.6	05.3	03.5	01.9	03.8	06.1	
11 D	05.3	05.9	07.2	06.5	06.5	06.6	06.3	06.2	06.8	07.7	-0.1	06.3	08.0	07.9	04.0	08.4	07.4	08.7	09.8	07.2	02.9	02.0	04.0	04.1	06.1	
12 D	02.6	04.7	05.9	06.7	07.7	07.6	05.9	05.3	06.4	05.7	08.4	02.4	17.4	20.3	13.4	11.8	09.1	11.8	09.4	05.1	01.9	01.1	02.6	02.9	07.3	
13	02.7	06.5	06.3	06.9	07.0	06.7	07.5	08.0	04.0	07.4	06.9	08.9	07.5	09.8	05.3	06.7	10.6	10.4	10.1	08.0	06.0	05.0	04.8	04.6	07.0	
14 Q	05.1	05.9	05.9	06.1	06.0	06.2	05.9	06.7	06.5	06.5	07.1	06.9	06.9	06.9	06.9	08.3	11.1	11.8	11.1	08.9	06.4	04.6	03.8	03.3	06.9	
15 Q	04.3	04.5	05.3	05.7	06.4	07.0	06.7	06.7	06.7	06.6	05.7	07.0	08.6	07.1	08.0	09.2	11.6	11.8	11.1	08.9	06.8	05.6	05.1	03.6	07.1	
16	03.6	04.5	04.7	05.5	06.7	06.9	06.4	07.5	08.0	07.4	06.6	07.7	08.5	07.1	07.6	09.0	09.6	09.6	09.4	07.6	05.0	03.0	02.9	00.6	06.5	
17	-0.2	00.4	02.7	04.1	06.7	07.7	06.7	07.1	12.7	16.4	11.1	15.7	13.9	02.4	05.2	08.4	09.6	09.1	07.7	05.9	04.6	04.6	05.3	05.3	07.2	
18	03.4	01.8	03.9	04.0	04.8	07.0	02.7	08.5	07.0	07.0	06.4	07.0	07.9	09.2	07.9	07.9	10.6	09.6	08.3	05.5	05.0	05.9	06.2	06.1	06.4	
19 D	05.8	06.4	06.7	06.6	06.7	09.0	09.1	13.3	13.0	32.8	25.1	33.8	29.3	41.5	26.0	13.8	13.5	09.6	-4.4	00.3	03.7	07.0	07.5	07.0	13.5	
20 Q	07.4	07.5	07.4	07.7	04.9	03.5	02.5	03.0	05.8	03.4	04.3	06.9	06.9	06.7	08.2	09.0	10.8	10.9	10.5	10.4	10.2	10.2	08.4	07.0	07.2	
21	07.0	07.2	06.7	06.7	06.5	05.5	05.3	06.2	22.9	13.5	15.6	12.5	13.9	14.5	06.7	08.6	08.9	09.6	09.0	08.7	07.9	05.9	05.5	04.0	09.1	
22	03.8	04.3	05.5	04.2	05.7	10.9	13.8	04.0	07.1	09.1	14.1	19.0	22.2	20.1	15.8	13.5	15.4	13.5	09.0	06.7	05.9	05.8	06.0	05.5	10.1	
23	05.8	05.8	06.1	05.9	05.9	05.6	06.0	05.5	05.2	03.5	07.3	11.4	08.7	07.9	11.1	12.4	12.5	09.9	06.2	04.3	04.2	04.6	04.6	03.7	06.8	
24	04.8	03.7	04.3	04.1	07.9	07.0	04.4	04.7	05.1	06.0	07.5	07.7	07.5	07.3	07.0	07.1	09.3	10.3	10.6	08.7	06.7	05.4	05.4	03.9	06.6	
25	03.7	04.7	04.4	-6.7	02.0	10.1	10.6	11.6	17.9	12.3	24.3	-5.2	-2.8	-1.6	06.3	09.2	07.0	-2.0	02.5	07.4	02.2	02.7	-0.8	00.7	05.0	
26	05.6	05.6	06.0	06.9	07.9	07.0	08.8	10.3	06.9	15.3	09.4	06.3	16.8	17.1	09.1	-3.5	03.5	04.8	03.0	01.6	01.5	00.8	02.2	02.6	06.5	
27	03.1	04.0	02.9	08.4	03.9	13.9	10.8	08.0	08.5	12.3	05.4	07.0	06.7	07.3	07.5	08.4	10.1	11.3	10.4	09.0	04.8	05.2	05.5	04.8	07.5	
28	04.5	09.8	05.8	08.4	08.4	09.8	08.8	05.7	-8.4	10.6	07.4	08.7	06.7	03.5	05.3	07.7	09.0	07.3	08.5	07.5	06.3	04.8	04.6	04.6	06.5	
29	04.8	07.0	08.9	07.9	07.6	06.9	08.3	08.3	10.3	07.2	05.7	07.1	06.4	03.7	06.6	09.0	08.4	07.5	06.9	05.9	05.9	05.2	04.7	05.3	06.9	
30 Q	06.0	05.9	06.1	06.5	07.3	09.1	05.6	06.0	06.0	06.3	06.1	06.0	06.4	06.4	06.5	07.0	08.9	08.9	09.3	09.2	07.2	05.9	05.2	04.7	06.8	
31	05.8	05.9	05.6	06.2	06.7	06.5	06.9	08.7	06.2	09.8	07.0	06.4	06.0	04.1	06.4	08.5	09.8	09.6	09.6	08.4	05.7	04.5	04.4	04.8	06.8	
Mean	04.4	05.2	06.0	06.2	06.4	07.3	07.1	07.0	07.6	08.6	08.5	09.0	09.6	09.6	08.7	09.0	09.6	08.5	07.3	06.3	05.0	04.4	04.2	04.1	07.1	

**VERTICAL INTENSITY**  
 Mean values for periods of sixty minutes, Universal Time

Table 47 Meanook

Z = 58,500  $\gamma$  +

December 1946

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	510	512	510	510	512	510	503	501	503	501	501	500	496	496	492	501	501	499	497	497	499	509	517	517	504
2	513	512	511	510	512	509	495	456	483	500	501	499	492	478	458	454	472	482	489	494	498	505	508	512	493
3	526	542	566	545	537	536	524	511	456	388	372	426	471	491	494	492	494	496	496	501	499	500	503	504	495
4	504	502	501	509	511	510	491	470	488	492	496	492	488	489	494	494	492	495	494	492	496	494	492	496	495
5 D	496	499	499	503	499	499	519	489	487	525	510	427	423	469	483	477	475	471	486	498	497	497	498	500	489
6	510	512	516	533	570	568	549	525	515	510	503	503	500	496	496	499	499	500	509	503	502	501	502	510	514
7	514	516	558	587	584	545	537	523	515	516	510	503	499	496	496	494	485	476	490	504	509	512	512	510	516
8	512	516	535	535	545	525	522	513	512	513	508	503	500	498	500	503	508	510	510	510	510	510	505	504	513
9 Q	510	512	513	514	512	510	506	503	510	510	506	503	502	499	499	501	502	497	503	509	505	510	511	512	507
10 D	514	512	511	511	505	501	503	502	501	488	498	487	489	490	489	458	482	491	501	511	511	506	510	515	499
11 D	514	513	509	506	506	508	503	501	499	479	440	458	485	494	464	469	471	491	506	546	535	552	544	535	501
12 D	528	537	531	527	522	515	514	514	512	511	494	339	350	420	438	486	523	523	505	512	512	517	515	516	494
13	525	519	518	515	512	515	512	503	412	467	512	510	512	498	499	491	512	510	509	516	520	514	514	512	505
14 Q	512	510	511	512	510	510	510	510	512	512	511	510	510	505	509	509	514	514	512	512	511	510	509	509	511
15 Q	509	508	509	510	510	506	508	505	505	503	490	481	488	494	499	504	509	509	508	512	511	511	511	512	505
16	523	522	521	521	521	520	520	514	511	511	513	515	513	514	514	514	518	513	513	515	514	514	513	522	516
17	528	533	543	550	557	575	563	536	459	442	417	409	466	481	498	512	512	511	515	521	520	521	522	522	510
18	530	529	533	535	546	543	518	526	525	524	522	515	511	504	509	509	507	506	509	511	513	511	510	513	519
19 D	513	512	510	512	515	514	522	464	425	422	479	455	481	274	344	444	468	543	541	520	519	522	521	523	481
20 Q	523	522	522	529	522	519	523	510	506	506	500	502	505	512	520	520	519	520	519	522	523	524	524	522	517
21	521	520	518	514	518	520	522	516	450	284	371	513	500	478	477	489	507	515	520	525	519	520	516	525	494
22	527	523	535	525	520	518	526	513	515	500	500	487	457	450	468	502	505	512	522	522	522	520	518	515	508
23	518	514	513	514	514	520	524	533	524	491	508	479	403	430	485	493	498	502	509	510	515	513	516	519	501
24	522	524	535	541	551	552	534	530	520	515	512	509	509	508	507	509	511	509	508	533	557	546	552	589	528
25	574	570	593	593	621	549	541	541	538	538	557	571	546	589	615	609	574	506	509	510	505	499	498	520	557
26	523	522	525	530	530	530	511	494	439	425	489	349	317	296	388	419	450	479	488	498	509	513	523	533	470
27	536	538	545	549	562	562	554	514	460	454	522	522	524	520	523	522	522	524	541	547	547	546	554	530	
28	554	567	563	554	545	535	534	465	387	485	496	497	486	468	479	489	500	506	513	516	521	524	522	530	510
29	527	529	529	533	528	525	520	492	446	500	513	512	493	459	491	506	511	512	513	513	520	522	523	523	510
30 Q	522	519	516	519	521	521	520	513	513	514	514	514	513	513	513	514	514	513	513	506	511	513	513	514	515
31	519	512	512	514	514	514	513	507	479	482	496	505	504	489	481	488	495	501	504	510	510	511	516	519	504
Mean	521	522	526	528	530	525	521	506	487	484	492	484	482	477	488	496	502	504	508	513	517	515	515	520	507

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48 Meanook

December 1946

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 25° E +		Minimum 25° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	16 05	788	18 05	732	56	16 12	14.9	19 48	-3.4	18.3	22 34	523	19 30	489	34
2	16 11	791	20 35	734	57	06 53	17.4	23 55	-2.3	19.7	23 55	519	15 02	430	89
3	02 40	820	10 20	666	154	11 18	15.4	01 03	-4.1	19.5	02 58	586	09 02	350	236
4	17 22	782	08 09	719	63	12 44	19.5	17 23	-2.0	21.5	06 08	514	07 05	422	92
5 D	08 16	810	11 39	688	122	12 43	19.1	17 20	-2.2	21.3	07 12	545	12 04	395	150
6	04 50	874	20 28	738	136	16 50	12.0	04 55	-11.7	23.7	05 03	619	14 05	488	131
7	04 36	837	17 38	708	129	02 50	24.1	02 33	-6.3	30.4	03 33	612	17 45	464	148
8	08 30	789	19 41	746	43	04 27	18.1	01 06	00.2	17.9	04 26	560	14 57	490	70
9 Q	06 04	789	20 07	735	54	17 08	12.9	07 40	01.1	11.8	03 27	519	13 45	490	29
10 D	13 36	795	15 42	678	117	11 40	14.7	21 56	-3.4	18.1	12 03	518	15 21	434	84
11 D	01 00	795	20 20	670	125	17 06	14.5	19 20	-4.6	19.1	21 46	563	10 33	389	174
12 D	16 30	802	11 31	529	273	12 50	25.4	11 42	-1.3	26.7	17 07	555	11 33	265	290
13	06 43	812	08 20	682	130	07 44	17.4	08 03	-10.7	28.1	00 27	539	08 11	366	173
14 Q	06 15	794	19 25	743	51	18 07	13.0	23 00	03.0	10.0	20 10	517	13 33	504	13
15 Q	13 20	792	21 58	751	41	17 42	13.2	10 25	03.3	09.9	23 40	513	10 56	469	44
16	05 12	791	23 08	754	37	07 25	12.3	23 35	-1.0	13.3	23 55	532	08 50	500	32
17	06 45	814	08 48	607	207	09 48	21.5	00 37	-2.5	24.0	06 47	584	11 05	360	224
18	07 02	825	06 30	717	108	07 00	20.2	06 25	-12.6	32.8	06 58	584	06 40	459	125
19 D	17 50	807	12 31	141	666	13 46	62.5	08 38	-16.0	78.5	12 35	662	13 39	157	505
20 Q	06 01	774	11 07	733	41	16 53	11.8	05 58	01.7	10.1	04 02	534	11 08	495	39
21	11 12	804	09 25	288	516	09 05	46.4	09 35	-8.4	54.8	23 50	539	09 38	194	345
22	05 57	800	09 16	540	260	12 20	23.2	02 15	00.9	22.3	02 40	551	13 52	395	156
23	09 12	848	13 10	573	275	16 03	15.9	09 44	-5.1	21.0	08 42	564	12 36	343	221
24	04 18	804	20 30	725	79	04 16	19.4	04 35	-6.3	25.7	04 47	655	19 35	477	178
25	15 20	792	13 30	629	163	11 00	30.3	03 15	-15.7	46.0	13 35	638	18 05	477	161
26	14 50	803	12 05	417	386	12 10	25.0	11 48	-13.4	38.4	22 48	543	13 00	255	288
27	03 37	895	08 20	599	296	03 53	32.3	03 11	-22.8	55.1	03 26	630	08 47	390	240
28	02 30	802	08 22	615	187	01 27	19.0	08 20	-20.4	39.4	01 23	595	08 17	304	291
29	18 50	789	08 00	645	144	08 05	15.4	13 06	-1.0	16.4	02 05	538	08 08	382	156
30 Q	05 23	785	20 11	746	39	05 27	12.7	23 18	04.3	08.4	05 15	530	20 32	504	26
31	16 05	789	19 58	750	39	18 50	09.9	21 37	04.0	05.9	23 25	522	08 50	448	74
Mean		806		645	161		20.3		-05.1	25.4		561		406	155
No. days		31		31	31		31		31	31		31		31	31

DIURNAL INEQUALITIES OF MAGNETIC ELEMENTS  
Departure from mean of the day not adjusted for non-cyclic change

Hour U. T. Month Season	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
HORIZONTAL INTENSITY (gammas) (All Days)																									
Table 49 Meanook																								1946	
January	+18	+20	+17	+20	+23	+19	+14	+6	-20	-27	-33	-17	-30	-9	+8	-3	-5	-1	-7	-4	-3	-1	+5	+9	
February	+22	+40	+53	+60	+53	+41	+25	+6	-15	-32	-78	-90	-76	-24	-39	-35	-22	+15	+12	+4	+4	+12	+23	+24	+24
March	+59	+65	+73	+73	+64	+46	-7	-20	-60	-80	-98	-78	-74	-58	-27	-25	+5	-1	-10	+1	+15	+32	+43	+60	
April	+47	+59	+57	+47	+47	+29	+13	-8	-27	-72	-74	-71	-70	-60	-37	-31	+1	-1	+4	+6	+21	+23	+50	+38	
May	+46	+53	+51	+48	+38	+16	-7	-15	-56	-56	-53	-51	-37	-29	-22	-20	-14	-15	-6	+3	+14	+30	+31	+42	
June	+22	+24	+18	+17	+2	+2	+5	+10	-10	-33	-34	-15	-19	-12	-13	-20	-14	+1	+7	+8	+1	+7	+17	+25	
July	+43	+40	+37	+25	+15	+12	+5	-17	-30	-26	-43	-37	-29	-18	-12	-3	-10	-14	-17	-8	+1	+13	+31	+41	
August	+19	+26	+28	+25	+28	+30	+11	-10	-22	-17	-17	-9	+2	-3	-6	-6	-18	-24	-29	-23	-12	+1	+13	+20	
September	+74	+92	+76	+67	+51	+18	-12	-47	-62	-49	-64	-75	-78	-95	-99	-66	-6	+8	+8	+33	+39	+61	+65	+72	
October	+27	+36	+29	+35	+27	+16	0	-55	-63	-36	-33	-25	-22	-9	+6	+6	-1	-5	-5	0	+11	+21	+19	+24	
November	+14	+20	+24	+33	+27	+23	+18	+6	-19	-35	-33	-32	-25	-15	+4	+5	+8	0	-10	-12	-8	-1	+2	+10	
December	+7	+10	+16	+14	+18	+16	+13	+6	-12	-22	-9	-13	-18	-12	+4	+6	+6	+4	-7	-11	-10	-6	-8	+2	
Year	+33	+40	+40	+39	+33	+22	+7	-13	-34	-44	-48	-42	-35	-30	-19	-15	-3	-3	-6	0	+7	+16	+24	+31	
Winter	+15	+22	+28	+32	+30	+25	+18	+1	-21	-40	-41	-35	-24	-19	-5	-4	+6	+4	-5	-6	-2	+4	+6	+11	
Equinox	+52	+63	+59	+56	+47	+27	-2	-32	-53	-58	-67	-62	-61	-54	-39	-29	0	0	-1	+10	+22	+32	+44	+49	
Summer	+32	+36	+34	+29	+21	+15	+4	-8	-30	-33	-37	-28	-21	-16	-13	-12	-14	-13	-11	-5	+1	+13	+23	+32	

DECLINATION (minutes) (All Days)																								
Table 50 Meanook																								1946
January	-1.8	-1.4	-0.2	+0.9	-0.1	+1.5	+2.4	+0.5	-0.7	+0.1	+0.8	+1.8	+1.5	+1.0	+0.9	+2.6	+2.7	+1.4	-0.6	-1.5	-2.9	-3.5	-2.9	-2.5
February	-1.8	-0.4	-1.4	-0.4	+0.6	+0.1	-0.3	-1.8	-4.0	+0.6	-2.4	-0.3	+0.4	-1.6	-0.3	+3.1	+6.3	+5.2	+2.5	+1.0	+0.4	-0.6	-2.1	-1.1
March	-4.3	-4.1	-2.7	-4.8	-4.1	-4.4	-2.4	-1.2	-0.6	+0.6	+2.3	+1.4	+2.6	+3.7	+6.4	+5.6	+7.9	+6.8	+2.8	+1.2	-0.7	-1.3	-3.7	-4.8
April	-5.0	-4.1	-4.0	-4.5	-3.2	-1.6	-1.8	-3.5	-0.1	+1.2	+5.9	+3.4	+2.7	+5.2	+5.8	+7.9	+7.1	+5.3	+1.2	-1.5	-3.3	-4.4	-4.1	-4.8
May	-4.3	-3.3	-0.3	-0.3	-0.4	-0.4	-0.7	-1.6	-1.4	-2.7	-1.0	-0.2	+4.1	+6.7	+10.0	+10.4	+8.4	+4.4	+0.8	-3.4	-6.1	-6.5	-6.2	-5.6
June	-4.5	-3.7	-3.3	-3.7	-0.7	+0.6	+0.5	+1.1	-0.3	-2.3	-3.2	+0.1	+3.3	+6.3	+7.2	+8.1	+7.2	+5.6	+1.7	-0.7	-2.6	-4.8	-5.9	-5.6
July	-2.6	-2.6	-1.4	-1.8	-1.7	-1.6	-3.6	-3.0	-4.4	-3.5	-3.1	-1.8	+3.7	+7.6	+10.0	+11.1	+10.2	+5.8	+1.5	-2.3	-3.5	-4.6	-4.4	-2.9
August	-3.4	-2.0	-1.3	-2.4	-2.7	-2.5	-1.0	-0.7	-2.0	-1.0	+0.6	+0.7	+3.5	+7.2	+9.7	+10.7	+10.4	+6.7	+0.2	-3.9	-6.5	-6.8	-6.1	-5.0
September	-2.6	-2.1	-3.8	-2.7	-4.8	-7.8	-7.5	-7.4	-4.9	-0.1	+1.1	+6.2	+6.3	+10.7	+9.3	+10.8	+9.6	+7.3	+1.7	-1.9	-4.1	-4.5	-4.7	-4.4
October	-2.1	-1.7	-2.8	-1.8	+0.1	-0.3	-0.2	+1.8	+1.3	+3.5	+4.5	+4.0	+2.9	+4.0	+4.4	+3.8	+1.2	-1.1	-3.6	-4.0	-3.7	-3.6	-2.9	-3.0
November	-3.1	-2.2	-1.7	-1.0	-0.9	-1.7	-0.6	-0.4	-0.7	+0.7	+2.5	+4.8	+3.6	+3.3	+2.9	+2.9	+3.8	+2.8	-0.2	-1.4	-3.3	-3.3	-3.6	-3.4
December	-2.7	-1.9	-1.1	-0.9	-0.7	+0.2	0.0	-0.1	+0.5	+1.5	+1.4	+1.9	+2.5	+2.5	+1.6	+1.9	+2.5	+1.4	+0.2	-0.8	-2.1	-2.7	-2.9	-3.0
Year	-3.2	-2.5	-2.0	-1.9	-1.6	-1.5	-1.3	-1.4	-1.4	-0.1	+0.7	+1.8	+2.8	+4.7	+5.3	+6.6	+6.4	+4.3	+0.7	-1.6	-3.2	-3.9	-4.1	-3.8
Winter	-2.4	-1.5	-1.1	-0.4	-0.3	0.0	+0.4	-0.4	-1.2	+0.7	+0.6	+2.0	+2.0	+1.3	+1.3	+2.6	+3.8	+2.7	+0.5	-0.7	-2.0	-2.5	-2.9	-2.5
Equinox	-3.5	-3.0	-3.3	-3.4	-3.0	-3.5	-3.0	-2.6	-1.1	+1.3	+3.4	+3.8	+3.6	+5.9	+6.5	+7.0	+6.4	+4.6	+0.5	-1.6	-3.0	-3.4	-3.8	-4.2
Summer	-3.7	-2.9	-1.6	-2.0	-1.4	-1.0	-1.2	-1.1	-2.0	-2.4	-2.0	-0.3	+3.7	+7.0	+8.2	+10.1	+9.0	+5.6	+1.0	-2.6	-4.7	-5.7	-5.6	-4.8

VERTICAL INTENSITY (gammas) (All Days)																								
Table 51 Meanook																								1946
January	+16	+18	+20	+25	+23	+14	+3	-1	-23	-32	-39	-29	-31	-22	-15	-7	-5	+3	+6	+11	+14	+12	+15	+14
February	+12	+10	+21	+28	+20	+24	+20	-21	-48	-36	-72	-42	-19	-33	-18	-1	+8	+10	+13	+20	+27	+27	+28	+24
March	+4	-3	+3	+3	-11	-3	-13	-13	-9	-23	-29	-33	-25	-1	+22	+29	+22	+10	0	+9	+12	+16	+22	+20
April	+4	+12	+13	+12	+9	+9	+2	-6	+1	-17	-24	-25	-18	-9	-18	-30	0	+4	+6	+13	+24	+24	+20	+11
May	+27	+32	+39	+36	+25	+19	+4	-20	-33	-26	-39	-47	-29	-33	-25	-12	-8	-4	+1	+7	+15	+21	+23	+24
June	+26	+28	+26	+30	+29	+25	+17	+1	-21	-25	-27	-19	-25	-32	-28	-25	-18	-11	-3	+1	+8	+18	+18	+21
July	+26	+22	+23	+23	+23	+16	+3	-10	-23	-18	-25	-25	-26	-23	-20	-12	-13	-16	-5	0	+8	+18	+23	+31
August	+18	+20	+20	+20	+8	-6	-9	-13	-14	-13	-12	-8	-2	-12	-16	-12	-10	-8	-7	-1	+6	+15	+16	+16
September	+14	+11	+5	0	-11	-6	-11	-15	-8	-9	-11	+10	-19	-17	0	-12	-19	-12	+6	+18	+23	+24	+21	+21
October	+10	+13	+12	+21	+9	-5	-5	-10	-22	-20	-22	-14	-23	-25	-16	-7	-2	+3	+10	+15	+20	+23	+21	+17
November	+15	+18	+17	+16	+14	0	0	-4	-18	-25	-27	-32	-17	-8	-9	-5	-3	0	+6	+9	+12	+15	+15	+13
December	+14	+15	+19	+21	+23	+18	+14	-1	-20	-23	-15	-23	-25	-30	-19	-11	-5	-3	+1	+6	+10	+8	+8	+13
Year	+15	+16	+18	+20	+13	+10	+1	-9	-20	-22	-29	-24	-22	-20	-13	-9	-5	-2	+3	+9	+15	+18	+19	+19
Winter	+14	+15	+19	+23	+20	+14	+9	-7	-27	-29	-38	-32	-23	-23	-15	-6	-2	+2	+6	+12	+16	+15	+16	+16
Equinox	+8	+8	+8	+9	-1	-3	-7	-11	-10	-17	-22	-16	-21	-13	-3	-5	0	+1	+5	+14	+20	+22	+21	+17
Summer	+24	+26	+27	+27	+21	+18	+2	-10	-23	-20	-26	-25	-21	-25	-22	-15	-12	-10	-4	+2	+9	+18	+20	+23



DIURNAL INEQUALITIES OF MAGNETIC ELEMENTS  
Departure from mean of the day not adjusted for non-cyclic change

Hour Month Season	U. T.																							
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24

HORIZONTAL INTENSITY (gammas) (Quiet Days)

Table 52 Meanook 1946

January	+6	+7	+4	+6	+4	+4	+2	+3	0	-4	-1	0	+2	+3	+4	+5	+1	-4	-11	-13	-10	-8	-4	+1
February	-2	+3	+7	+9	+3	+3	+6	+4	0	-5	-3	-1	+6	+3	+9	+10	+6	-4	-16	-15	-14	-9	-4	+1
March	+2	+3	+4	+6	+6	+6	+8	+8	+6	+2	+4	+6	+8	+8	+6	+4	-2	-13	-25	-19	-13	-8	-6	0
April	0	+11	+7	+7	+4	+3	+11	+7	+7	+9	+10	+9	+8	+6	+9	+8	-2	-10	-19	-23	-22	-17	-13	-10
May	+27	+14	+12	+16	-2	-1	+6	-2	-8	-13	-12	+4	+13	+11	0	-13	-20	-24	-28	-16	-6	+4	+18	+27
June	+4	+9	-5	-8	-19	-16	+10	+30	+31	+39	+36	+31	-1	-6	-3	-8	0	-19	-27	-32	-35	-16	+10	+10
July	+37	+30	+20	+14	-1	+2	+2	+1	+6	+8	+2	-9	-20	-13	+7	+3	-9	-10	-21	-23	-19	-12	-8	+11
August	+6	+5	+5	+2	+4	+9	+8	+7	+9	+6	+8	+9	+12	+12	+7	-1	-17	-32	-34	-24	-12	-4	+7	+16
September	+2	+1	+7	+9	+8	+11	+8	+11	+1	+5	+3	0	+10	+9	+7	+2	-2	-17	-26	-23	-19	-15	+3	+6
October	+2	+2	+2	+4	+4	+3	+6	+2	-1	-6	-5	+6	+7	+10	+7	+1	-5	-8	-11	-10	-6	-2	0	+4
November	-1	+2	+5	+6	+4	+5	+5	+2	+1	+2	+5	+6	+6	+8	+9	+7	-3	-17	-21	-18	-15	-9	-4	-4
December	+1	+3	+4	+5	+6	+9	+8	+5	+3	+2	+1	+1	+6	+8	+8	+7	+5	-1	-10	-18	-20	-16	-12	-5
Year	+7	+7	+6	+6	+2	+3	+7	+7	+4	+4	+4	+5	+5	+5	+6	+3	-4	-10	-20	-19	-16	-11	-4	+5
Winter	+1	+4	+5	+6	+4	+5	+5	+4	+1	-1	+1	+2	+5	+6	+7	+8	+5	-3	-14	-17	-16	-12	-7	-2
Equinox	+2	+4	+5	+6	+6	+6	+8	+7	+3	+2	+3	+5	+8	+8	+7	+4	-3	-12	-20	-19	-15	-10	-4	0
Summer	+18	+14	+8	+6	-4	-2	+6	+9	+8	+10	+8	+9	+1	+1	+3	-4	-14	-16	-26	-22	-17	-12	0	+16

DECLINATION (minutes) (Quiet Days)

Table 53 Meanook 1946

January	-1.9	-1.0	-0.1	+0.7	+0.7	+0.2	0.0	0.0	+0.1	-0.1	+0.3	-0.4	-0.8	+0.2	+1.4	+3.1	+4.1	+3.9	+2.0	-0.1	-2.8	-3.5	-2.8	-2.7
February	-1.5	-1.4	-0.6	-0.4	-0.5	-0.4	-0.7	-0.3	+0.5	+0.5	+0.9	-1.2	-0.1	-1.1	+0.7	+3.0	+4.9	+4.4	+2.3	+0.5	-1.1	-2.2	-2.8	-3.0
March	-1.8	-1.7	-1.8	-1.3	-1.0	0.0	-0.4	-1.1	-0.9	-0.9	+0.7	+0.4	+1.3	+2.1	+2.8	+4.3	+5.6	+5.0	+2.6	-1.2	-2.8	-3.5	-3.2	-3.6
April	-4.0	-3.0	-1.5	-1.8	-1.5	-1.8	-1.2	-0.4	+0.4	+0.6	+0.4	+0.3	+1.0	+3.3	+4.9	+7.3	+7.9	+6.5	+2.4	-0.8	-3.9	-5.0	-5.3	-4.7
May	-3.9	-2.4	-0.6	-0.6	+0.3	-0.1	+0.1	-1.9	-1.0	-1.9	-1.0	+2.5	+7.4	+10.1	+10.4	+9.0	+7.3	+1.1	-3.3	-5.3	-7.4	-7.1	-6.8	-5.2
June	-3.0	-1.4	-0.4	+0.4	-0.5	+1.7	+1.2	+1.1	-1.3	-2.6	-0.8	+0.7	+1.8	+2.9	+4.9	+7.7	+6.5	+5.4	+1.6	-1.2	-3.3	-5.7	-7.3	-8.3
July	-2.2	-1.1	-1.0	-1.9	-0.9	-2.2	-1.7	-1.5	-1.5	-1.7	-2.8	+0.9	+4.3	+9.8	+11.1	+11.0	+9.0	+5.3	+2.1	-3.8	-7.6	-8.6	-8.3	-6.7
August	-1.8	-1.4	-1.8	-2.2	-2.2	-1.6	-1.6	-1.4	-0.8	+0.1	+0.7	+1.9	+3.5	+6.6	+8.4	+9.5	+8.1	+4.6	-0.6	-5.0	-7.6	-6.6	-4.8	-3.6
September	-1.8	-1.8	-2.6	-0.1	-0.5	-2.8	-2.5	-0.9	-1.3	+0.2	-0.2	-0.1	+1.5	+3.4	+6.0	+8.0	+8.3	+6.1	+0.5	-2.6	-4.3	-4.6	-4.3	-3.1
October	-2.2	-2.2	-2.0	-1.8	-1.3	+2.2	+0.1	-0.3	+1.1	+0.8	+0.5	+2.5	+2.6	+3.3	+5.0	+4.4	+2.5	+1.1	-1.7	-2.6	-2.7	-3.0	-2.9	-3.4
November	-1.7	-1.0	-0.6	-0.4	-0.5	-0.5	+0.1	-0.4	+0.5	+0.1	-0.4	+0.2	+0.4	+1.0	+1.4	+3.1	+4.4	+4.1	+1.9	+0.2	-1.7	-2.6	-3.3	-3.1
December	-1.6	-1.1	-0.8	-0.4	-0.6	-0.4	-1.5	-1.6	-1.1	-1.3	-0.8	+0.1	+0.6	+0.3	+0.8	+1.8	+3.8	+3.7	+3.2	+2.0	+0.2	-1.0	-1.9	-2.7
Year	-2.3	-1.6	-1.2	-0.8	-0.7	-0.5	-0.7	-0.7	-0.3	-0.5	-0.2	+0.7	+1.9	+3.5	+4.8	+6.0	+6.0	+4.3	+1.1	-1.7	-3.8	-4.4	-4.5	-4.2
Winter	-1.7	-1.1	-0.5	-0.1	-0.2	-0.3	-0.7	-0.6	+0.4	-0.3	+0.1	-0.3	0.0	+0.1	+1.1	+2.8	+4.3	+4.0	+2.4	+0.6	-1.4	-2.3	-2.7	-2.9
Equinox	-2.4	-2.2	-2.0	-1.2	-1.1	-0.6	-1.0	-0.7	-0.2	+0.2	+0.4	+0.8	+1.6	+3.0	+4.7	+6.0	+6.1	+4.7	+1.0	-1.8	-3.4	-4.0	-3.9	-3.7
Summer	-2.7	-1.6	-1.0	-1.1	-0.8	-0.6	-0.5	-0.7	-1.2	-1.5	-1.0	+1.5	+4.2	+7.4	+8.7	+9.3	+7.7	+4.1	0.0	-3.8	-6.5	-7.0	-6.8	-6.0

VERTICAL INTENSITY (gammas) (Quiet Days)

Table 54 Meanook 1946

January	+8	+11	+11	+11	+9	+6	+2	-1	-5	-7	-8	-9	-6	-2	-1	-1	-2	-2	-2	-4	-4	-3	-3	-3
February	+6	+7	+9	+9	+8	+6	+8	+3	-10	-30	-20	-14	-6	-13	-2	+1	+3	+2	+1	+3	+7	+6	+6	+6
March	+8	+7	+4	+2	+2	+4	+3	+1	-12	-21	-10	-4	-1	-1	-2	-1	-1	0	+1	+3	+8	+7	+6	
April	+5	+5	+4	+2	+1	+1	+8	+3	-1	-3	-4	-1	-4	-2	-6	-3	-5	-3	+2	0	-4	-2	+3	+5
May	+21	+21	+26	+22	+15	+13	+8	+7	+3	-17	-31	-15	-6	-9	-16	-17	-18	-20	-10	-3	+1	+4	+11	+10
June	+12	+10	+7	+10	+11	+8	+7	-12	-13	-13	-3	+3	+2	+2	0	-2	-3	-9	-7	-10	-4	-2	+5	+9
July	+27	+20	+18	+15	+14	+12	+3	+1	+7	+2	-12	-23	-39	-27	-17	-5	+2	-1	-3	-6	-4	+6	+7	+8
August	+6	+4	+2	+1	+2	+2	0	+1	+1	-1	+1	+2	0	+3	+1	-2	-3	-3	-5	-1	-3	-1	+2	+2
September	+14	+11	+12	+15	+7	+12	+6	+1	-20	-17	-13	-17	-7	-6	-9	-7	-4	-5	-3	0	+4	+6	+9	+12
October	+6	+6	+7	+11	+11	+3	+10	+2	-4	-11	-8	-7	-5	-5	-4	-2	-5	-4	-4	-3	0	+3	+2	+3
November	+5	+4	+3	+2	+1	+2	-1	+6	-6	-9	-6	-4	-5	-4	-1	+3	+5	+5	+3	+2	+3	+2	+4	+3
December	+4	+3	+3	+6	+4	+2	+2	-3	-2	-2	-7	-9	-7	-6	-3	-1	+1	0	0	+1	+1	+3	+3	+3
Year	+10	+8	+9	+9	+7	+6	+5	0	-4	-10	-11	-9	-7	-7	-5	-3	-2	-3	-2	-2	0	+2	+4	+5
Winter	+6	+6	+6	+7	+6	+4	+3	-2	-6	-12	-10	-9	-6	-6	-2	0	+2	+1	0	0	+2	+2	+2	+2
Equinox	+8	+7	+7	+8	+5	+5	+7	+2	-6	-11	-12	-9	-5	-6	-5	-4	-4	-3	-1	0	-1	+4	+5	+6
Summer	+16	+11	+13	+12	+10	+9	+4	-1	0	-7	-11	-8	-11	-8	-8	-6	-6	-8	-6	-6	-2	+1	+6	+8

DIURNAL INEQUALITIES OF MAGNETIC ELEMENTS  
Departure from mean of the day not adjusted for non-cyclic change

Hour U. T. Month Season	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24
Table 55 Meanook <span style="float: right;">1946</span>																								
HORIZONTAL INTENSITY (gammas) (Disturbed Days)																								
January	+78	+78	+82	+92	+94	+65	+47	+26	-81	-111	-145	-49	-149	-56	+10	-64	-61	-8	-8	+19	+26	+31	+41	+43
February	+87	+158	+200	+201	+176	+135	+91	-89	-107	-268	-316	-297	-101	-154	-200	-129	+62	+39	+57	+63	+90	+114	+109	+96
March	+171	+213	+270	+215	+210	+148	-72	-85	-194	-334	-349	-214	-276	-271	-169	-153	+20	+31	+17	+78	+135	+184	+190	+245
April	+171	+210	+206	+188	+172	+74	+11	-66	-130	-238	-307	-304	-383	-352	-231	-179	+44	+50	+86	+124	+181	+224	+268	+184
May	+137	+162	+142	+160	+71	+4	-63	-78	-202	-201	-205	-199	-167	-101	-54	-43	+10	+4	+56	+82	+94	+128	+138	+133
June	+17	+1	-6	+10	+15	+43	+19	+16	+20	-20	-73	-76	-42	-31	-32	-52	-44	-9	+30	+52	+20	+56	+53	+36
July	+50	+53	+33	+27	+36	+8	-23	-16	-34	-61	-96	-122	-60	-5	0	+8	-17	-32	-30	-4	+30	+52	+90	+109
August	+54	+71	+101	+91	+122	+140	+39	-17	-67	-92	-122	-68	-41	-70	-62	-28	-48	-45	-25	-12	-1	+25	+20	+34
September	+279	+392	+332	+245	+156	-1	-157	-269	-262	-230	-224	-346	-378	-474	-520	-360	+35	+155	+175	+265	+253	+311	+309	+313
October	+87	+120	+69	+94	+58	+41	-12	-142	-186	-151	-75	-74	-76	+6	+31	+12	+3	+2	-4	+9	+16	+64	+47	+67
November	+86	+70	+78	+81	+84	+87	+65	+39	-49	-147	-171	-192	-178	-120	-13	-19	+25	+20	+30	+36	+43	+51	+59	+54
December	+29	+32	+34	+34	+34	+32	+28	+13	-13	-34	-25	-46	-75	-45	-1	-7	-7	+11	-2	-10	-8	+2	+6	+16
Year	+100	+130	+129	+120	+102	+65	-2	-56	-109	-157	-176	-165	-161	-139	-103	-84	+2	+18	+32	+59	+73	+104	+116	+111
Winter	+60	+84	+98	+102	+97	+80	+58	-3	-62	-140	-164	-146	-126	-94	-51	-55	+5	+16	+19	+27	+38	+50	+69	+52
Equinox	+177	+234	+222	+186	+149	+66	-58	-140	-193	-238	-239	-234	-278	-273	-222	-170	+26	+59	+68	+119	+146	+196	+204	+202
Summer	+64	+72	+68	+72	+61	+49	-7	-24	-71	-94	-124	-116	-78	-52	-37	-29	-25	-20	+8	+30	+36	+65	+75	+78

Table 56 Meanook <span style="float: right;">1946</span>																								
DECLINATION (minutes) (Disturbed Days)																								
January	-2.2	-2.0	-0.6	+1.7	-1.5	+5.9	+9.2	-0.6	-0.8	+1.1	+0.9	+5.9	+3.4	+2.0	+1.6	+0.8	-1.1	-2.4	-5.1	-3.2	-3.8	-4.1	-3.4	-1.7
February	-1.4	+5.8	-1.4	-1.9	-1.7	0.0	-0.9	-0.7	-16.1	-3.4	-13.2	-0.9	+2.4	-5.4	-7.7	+6.2	+11.3	+6.4	+1.0	+2.3	+4.5	+4.4	+3.7	+6.4
March	-10.1	-8.2	-4.2	-17.4	-10.9	-13.6	-8.7	-3.4	-1.3	-3.8	+9.8	+4.3	+2.6	+4.9	+9.1	+1.3	+11.5	+14.7	+1.4	+7.1	+8.3	+10.4	-1.2	-4.1
April	-10.6	-7.0	-10.3	-12.2	-10.8	-4.0	-10.8	-13.0	-6.2	-8.4	+20.7	+11.8	+6.1	+10.8	+5.4	+11.2	+8.7	+6.3	-0.4	-0.2	+3.1	+2.5	+5.8	+0.6
May	-4.6	-4.7	+0.1	+1.1	+10.6	-6.0	-8.0	-5.7	0.0	-3.3	-3.3	-2.5	+0.9	-1.0	+9.2	+11.4	+9.0	+4.8	+3.5	+1.0	-1.8	-2.1	-0.2	-3.2
June	-7.0	-6.3	-5.7	-6.9	-1.7	+2.6	+4.0	+5.1	+0.9	-2.8	-2.1	+1.5	+1.9	+6.8	+0.8	+1.9	+9.5	+2.8	+0.8	+1.0	+1.3	-0.8	-1.6	+1.4
July	-3.6	-3.2	-4.7	-1.9	-1.1	-3.8	-10.9	-6.5	-5.6	-3.6	-1.3	-0.9	+6.1	+7.2	+10.1	+12.1	+10.6	+5.3	+0.6	-0.2	+0.8	-2.9	-2.7	-0.4
August	-6.5	-3.8	-0.8	-3.6	-5.5	-8.2	-2.8	+4.8	+0.8	-1.8	-2.5	+1.8	+3.9	+8.0	+13.6	+13.3	+13.2	+7.5	-1.6	-4.2	-7.6	-6.5	-6.2	-5.2
September	+2.6	+5.1	-7.4	-4.3	-12.5	-30.7	-37.7	-34.6	-22.1	-12.2	-7.4	+24.5	+21.1	+37.0	+24.6	+21.5	+18.3	+12.2	+2.8	+2.0	+0.7	-1.0	-1.8	-0.9
October	-2.8	-2.3	-7.8	-3.4	-0.8	-0.1	-2.0	+1.7	0.0	+7.0	+8.9	+10.3	+7.1	+4.3	+5.0	+3.3	+0.3	-1.9	-5.7	-4.5	-4.5	-6.3	-3.2	-2.5
November	-5.8	-4.7	-3.9	-4.0	-3.7	-6.0	-5.3	-2.4	-2.3	-0.4	+11.5	+27.2	+14.2	+9.2	+7.2	-1.4	-0.7	-3.7	-5.5	-5.6	-5.6	-3.1	-3.8	-3.4
December	-3.6	-2.8	-1.6	-1.3	-1.4	-1.1	-1.4	0.0	+1.3	+3.9	+1.9	+4.9	+6.6	+10.2	+5.3	+3.1	+0.5	-0.1	-2.9	-3.6	-4.3	-5.1	-4.6	-3.7
Year	-4.6	-2.8	-4.0	-4.5	-3.4	-5.2	-6.3	-4.6	-4.3	-2.3	+2.0	+7.3	+6.3	+7.8	+7.0	+7.1	+6.9	+4.3	-0.9	-0.7	-0.7	-1.2	-1.6	-1.4
Winter	-3.2	-0.9	-1.9	-1.4	-2.1	+0.3	+0.4	-0.9	-4.5	+0.3	+0.3	+9.3	+6.6	+4.0	+1.6	+2.2	+2.5	0.0	-3.1	-2.5	-2.3	-2.0	-2.0	-0.6
Equinox	-5.2	-3.1	-7.4	-9.3	-8.8	-12.1	-14.8	-12.3	-7.4	-4.4	+8.0	+12.7	+9.2	+14.2	+11.0	+9.3	+9.7	+7.8	-0.5	+1.1	+1.9	+1.6	-0.1	-1.7
Summer	-5.4	-4.5	-2.8	-2.8	+0.6	-3.8	-4.4	-0.6	-1.0	-2.9	-2.3	0.0	+3.2	+5.2	+8.4	+9.7	+8.6	+5.1	+0.8	-0.6	-1.8	-3.1	-2.7	-1.8

Table 57 Meanook <span style="float: right;">1946</span>																								
VERTICAL INTENSITY (gammas) (Disturbed Days)																								
January	+26	+36	+44	+63	+51	+16	-5	-7	-89	-99	-118	-36	-59	-46	-35	-21	-17	+22	+38	+53	+58	+43	+42	+41
February	-22	-34	-2	+19	-2	+53	+47	-102	-119	+18	-136	-42	-11	-40	-58	+6	+40	+40	+53	+65	+79	+68	+58	+29
March	-84	-119	-151	-152	-148	-97	-99	-30	+19	-26	+11	+62	+93	+151	+210	+222	+153	+52	-22	+2	0	-10	+2	-17
April	-98	-43	-33	-34	-51	-45	-16	+5	+76	+57	-7	+23	+13	+22	-57	-81	+34	+24	+21	+51	+79	+64	+26	-31
May	+39	+46	+74	+63	+37	+2	-42	-62	-51	-27	-74	-123	-98	-83	-31	-4	+4	+14	+22	+44	+53	+68	+66	+60
June	+34	+38	+44	+53	+48	+41	+39	+32	+20	-5	-31	-50	-70	-74	-95	-111	-83	-44	-12	+4	+36	+65	+60	+53
July	+24	+7	+5	+15	+22	+15	+2	-1	0	-8	-41	-43	-29	-14	-12	-21	-26	-38	-24	-9	+15	+41	+50	+72
August	+31	+55	+52	+56	+18	-41	-16	-21	-54	-39	-25	+2	+7	-55	-64	-46	-34	-14	+1	+19	+36	+52	+49	+35
September	+8	+19	-42	-64	-113	-104	-81	-13	+108	+111	+58	+140	-35	-27	+108	+5	-70	-36	+6	+24	+22	+12	-18	-6
October	-12	-7	-27	+19	+3	-20	-25	+16	+28	-10	-39	-7	-27	-18	-3	-4	+2	+2	+11	+18	+20	+29	+35	+13
November	+28	+29	+19	+24	+35	+30	+18	+14	-33	-39	-83	-124	-44	-16	-40	-31	-17	+2	+25	+31	+38	+49	+45	+41
December	+20	+22	+19	+19	+17	+15	+19	+1	-8	-8	-9	-60	-47	-63	-49	-26	-9	+11	+15	+25	+22	+26	+25	+27
Year	0	+4	0	+7	-7	-11	-14	-14	-8	-5	-41	-22	-26	-22	-11	-9	-2	+3	+10	+27	+38	+42	+37	+26
Winter	+13	+13	+20	+31	+25	+28	+20	-24	-62	-32	-86	-66	-40	-41	-46	-18	-1	+19	+33	+44	+49	+46	+43	+34
Equinox	-46	-38	-63	-58	-77	-66	-57	-6	+58	+36	+6	+54	+11	+32	+64	+36	+30	+10	+1	+24	+30	+24	+11	-10
Summer	+32	+36	+44	+47	+31	+4	-4	-13	-21	-20	-43	-54	-48	-56	-50	-46	-35	-20	-3	+14	+35	+56	+56	+55