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RECORD OF OBSERVATIONS AT  
MEANOOK MAGNETIC OBSERVATORY  
1953 - 1954

H. E. Cook and A. B. Cook

*Price: 25 cents*

**CONTENTS**  
**Meanook Observatory**

	PAGE
Introduction.....	385
Instruments.....	385
Magnetic Reductions.....	385
Mean Values for Month and Year, Meanook.....	386

**1953**

**TABLES**

1-48	Hourly Values of Horizontal Intensity, Declination, and Vertical Intensity; Hourly, Daily, and Monthly Means; Daily Extremes and Range; Monthly Means.....	387
49-57	Diurnal Inequalities of H, D, and Z; Monthly, Annual, and Seasonal.....	435

**1954**

1-48	Hourly Values of Horizontal Intensity, Declination, and Vertical Intensity; Hourly, Daily, and Monthly Means; Daily Extremes and Range; Monthly Means.....	438
49-57	Diurnal Inequalities of H, D, and Z; Monthly, Annual, and Seasonal.....	486



# MEANOOK MAGNETIC OBSERVATORY

Geographic Latitude  $54^{\circ}37'N$   
Geographic Longitude  $113^{\circ}20'W$   
*Officer-in-Charge*: H. E. Cook

Geomagnetic Latitude  $61.8^{\circ}N$   
Geomagnetic Longitude  $301.0^{\circ}E$   
*Assistant*: Anne B. Cook

1953-1954

## Introduction

Meanook Magnetic Observatory has been in continuous operation since July 1916 with 1918 being the first year for which a complete set of magnetic results are available.

The 1954 values of the main magnetic elements were lower than those of 1918 by  $64\gamma$  in H,  $3^{\circ} 14.0'$  in D,  $1574\gamma$  in Z, and  $15.3'$  in I. During the 36-year interval horizontal intensity decreased until 1939 then reversed its trend. Inclination decreased until 1924 then increased to 1930 when a sustained decrease commenced. Both declination and vertical intensity decreased throughout the interval with more or less regularity.

Mean annual rates of change in the 10-year period 1944 to 1954 are as follows: for D,  $-5.3'$ ; H,  $+13\gamma$ ; Z,  $-34\gamma$ ; X,  $+21\gamma$ ; Y,  $-12\gamma$ ; I,  $-1.2'$ ; and for F,  $-30\gamma$ .

## Instruments

The same absolute instruments continued in use, namely, Elliott magnetometer No. 98 for declination and horizontal intensity and earth inductor MS No. 1 for inclination.

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

$$\text{for D, I.M.S.} = \text{Elliott 98} + 0.04'$$

$$\text{for H, I. M. S.} = \text{Elliott 98} + 0.00039H$$

$$\text{for I, I.M.S.} = \text{M.S.1} - 0.85'$$

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,  $D = 0.984'/\text{mm}$ ;  $H = 7.82\gamma/\text{mm}$ ; and  $Z = 11.05\gamma/\text{mm}$ . For the low sensitivity la Cour set the values were,  $D = 2.4'/\text{mm}$ ;  $H = 22.4\gamma/\text{mm}$ ; and  $Z = 17.1\gamma/\text{mm}$ . Scale values for the Kew-type set were,  $D = 1.30'/\text{mm}$ ; and  $H = 9.22\gamma/\text{mm}$ .

The root mean square values of the observed minus adopted photographic base-line values were for D,  $\pm 0.6'$ ; for H,  $\pm 6\gamma$ ; and for Z,  $\pm 16\gamma$ .

## 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 of each year.

The 1945 large seasonal variation in vertical intensity was repeated to a lesser extent in 1953 and in many respects the magnetic activity of the years 1953 and 1945 were similar. In a general way, however, the magnetic activities of the years 1953 and 1954 corresponded to those of 1943 and 1944.

The monthly and yearly mean values of H, D, Z, X, Y, and F for 1953 and 1954 which follow 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.

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, Meanook

Month	D East	H	Z	X	Y East	I North	F
1953	° ' "	γ	γ	γ	γ	° ' "	γ
January.....	24 39.4	12871	58854	11697	5370	77 39.8	60245
February.....	39.8	877	851	702	73	39.5	243
March.....	38.3	862	851	691	62	40.3	240
April.....	40.5	863	828	688	70	40.0	218
May.....	36.4	873	824	704	60	39.4	216
June.....	36.4	879	776	709	63	38.4	170
July.....	37.3	866	750	696	60	38.8	142
August.....	37.6	862	749	692	60	39.1	140
September.....	37.3	862	752	693	59	39.1	143
October.....	35.8	862	761	695	54	39.2	152
November.....	35.2	869	768	702	54	38.9	161
December.....	33.4	887	797	721	56	38.3	193
Year.....	24 37.3	12869	58797	11699	5362	77 39.2	60189
1954							
January.....	24 32.3	12872	58806	11709	5346	77 39.2	60198
February.....	31.6	855	803	695	36	40.1	192
March.....	31.5	858	815	698	37	40.1	204
April.....	30.9	870	828	710	40	39.6	219
May.....	30.3	885	836	725	44	38.8	230
June.....	29.9	892	832	731	46	38.4	228
July.....	30.1	885	815	725	44	38.6	210
August.....	29.9	879	816	720	40	38.9	210
September.....	29.9	863	814	705	34	39.8	204
October.....	29.5	863	823	706	32	39.9	213
November.....	28.7	881	825	723	37	38.9	219
December.....	28.7	889	811	731	41	38.3	207
Year.....	24 30.3	12874	58819	11715	5340	77 39.2	60211

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

Table 1 Meanook

H = 12,000  $\gamma$  +

January 1953

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	889	912	889	903	903	892	885	878	795	721	802	727	767	874	906	885	884	869	858	856	863	873	877	871	857
2	891	891	892	890	889	878	881	847	833	859	776	820	854	873	854	864	871	841	845	826	865	877	880	892	862
3	892	900	900	898	904	885	881	881	885	876	876	878	869	873	881	903	892	866	867	874	875	882	883	885	884
4 Q	886	885	885	892	892	892	886	885	885	881	885	881	885	885	884	881	883	878	885	877	881	885	891	892	885
5 D	898	900	899	899	896	885	913	978							962	897	908	885	775	779	863	878	880	873	849
6	867	869	865	860	865	864	860	856	796	798	810	806	814	825	830	724	847	857	853	856	843	874	890	896	843
7	875	877	874	874	872	869	867	865	874	872	842	873	720	825	865	865	880	886	881	886	888	889	890	890	867
8	890	885	864	886	888	881	874	878	878	878	865	853	881	885	885	887	881	877	875	874	891	889	890	884	880
9	870	874	885	883	881	874	876	882	878	877	874	864	870	889	889	882	886	889	886	881	880	889	898	900	882
10 Q	896	890	890	899	895	889	888	885	885	887	888	887	881	882	885	896	897	892	890	889	882	886	885	899	889
11	884	885	900	903	897	904	898	885	878	856	837	858	865	885	892	892	889	885	894	889	884	886	890	890	884
12	892	889	882	892	891	890	889	885	888	881	890	889	877	871	878	881	879	892	890	895	896	892	889	889	886
13	889	895	896	894	889	890	890	887	876	856	842	911	881	875	881	892	882	881	891	894	867	885	892	885	884
14	884	881	878	896	903	915	905	892	885	881	883	884	881	883	884	877	874	869	864	872	880	881	885	885	884
15 Q	889	892	893	889	888	887	885	889	883	892	884	888	885	881	884	886	885	881	882	881	859	883	878	881	884
16 Q	881	890	893	892	889	884	881	885	885	888	890	890	889	889	890	888	889	883	882	878	879	888	892	889	887
17 Q	890	894	896	895	891	892	889	889	892	889	880	890	892	892	896	889	882	881	882	882	881	884	881	881	888
18	887	889	889	885	888	881	881	889	889	874	798	787	783	575	874	896	881	877	874	869	877	888	892	892	859
19 D	852	856	853	847	744	811	853	853	853	677	723	805	894	873	909	894	873	873	878	867	860	881	892	899	847
20	894	903	889	889	892	892	895	772	755	802	821	880	857	861	885	888	880	874	866	873	874	881	889	893	867
21	892	892	892	892	889	885	885	885	861	850	861	839	864	896	892	886	884	881	871	873	879	890	889	888	880
22	894	896	892	881	885	877	889	889	889	884	878	873	878	891	896	896	892	885	878	881	885	897	895	897	887
23	892	884	892	891	892	881	885	889	888	881	885	885	889	889	889	889	885	877	880	874	877	881	885	886	885
24	892	894	896	896	885	881	887	885	877	786	626	692	881	903	892	856	888	889	858	864	874	892	889	889	861
25	889	889	890	889	889	888	889	889	864	876	585	377	779	911	890	873	875	874	885	861	857	884	892	874	845
26 D	892	910	968	947	920	910	946	955	970	721	673	673	692	701	739	808	837	814	828	838	894	896	936	924	850
27 D	924	943	915	900	907	912	892	783	843	836	791	562	803	665	622	776	837	838	781	785	890	867	867	875	826
28 D	881	881	890	885	890	899	888	873	789	770	774	680	845	848	868	764	759	868	885	864	881	876	888	881	847
29	904	939	909	920	897	910	849	904	881	834	801	874	839	748	754	873	855	845	866	885	885	875	882	886	867
30	887	881	897	913	933	897	906	858	884	872	838	819	878	874	851	829	849	866	889	881	894	889	882	889	877
31	869	896	912	916	916	907	889	885	885	884	729	764	834	889	885	889	885	878	882	874	881	881	882	889	875
Mean	887	892	892	893	889	887	886	876	867	845	817	810	848	850	864	867	873	872	872	870	877	884	888	889	871

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 2 Meanook

D = 24° E + ...'

January 1953

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	38.8	39.8	39.8	48.6	37.8	37.7	38.9	36.8	26.5	36.3	45.7	53.1	37.8	46.6	44.7	46.7	41.7	36.8	34.9	32.3	29.9	33.7	35.3	38.7	39.1
2	39.8	39.9	40.8	40.8	39.8	43.7	41.5	34.9	32.3	42.7	38.8	39.8	44.7	40.7	42.6	41.7	35.8	32.8	29.4	22.1	27.0	31.9	35.3	38.5	37.4
3	37.8	40.8	41.8	45.8	44.2	39.8	38.3	37.8	38.8	38.7	39.8	38.8	42.7	46.7	46.7	46.7	42.7	38.8	35.8	34.9	32.9	35.8	36.9	37.8	40.0
4 Q	37.8	38.8	43.6	40.8	39.8	39.8	39.7	38.8	37.9	37.9	38.8	38.8	39.8	39.8	41.7	40.7	42.7	43.2	37.8	35.8	35.8	37.8	36.8	37.3	39.2
5 D	38.2	38.7	39.3	40.8	39.8	41.8	40.8	50.1	21.1	39.8	15.0	84.3	74.9	44.2	47.6	48.6	44.7	34.9	24.0	28.9	35.9	35.9	35.8	37.7	45.1
6	39.8	40.8	40.8	40.3	39.8	39.8	38.8	41.7	42.7	34.9	39.8	37.8	45.7	43.8	42.8	39.8	37.9	31.9	25.0	20.1	22.1	32.9	36.8	34.9	37.1
7	37.3	39.7	40.8	35.3	39.3	41.7	38.3	40.8	41.7	41.7	39.3	37.3	30.9	39.5	42.3	36.4	34.9	35.3	35.8	25.3	36.3	37.8	39.2	38.8	37.7
8	38.6	38.8	52.0	42.5	38.6	37.7	37.7	38.4	38.7	39.3	38.6	37.7	40.8	41.1	40.8	40.9	40.8	40.9	37.7	33.9	32.0	33.0	33.9	35.9	38.8
9	40.7	39.8	39.7	39.7	38.7	37.7	38.7	41.6	41.6	41.6	39.7	34.8	40.7	42.6	41.6	40.1	41.6	41.6	37.7	34.3	33.8	34.7	35.7	36.8	39.0
10 Q	37.8	39.7	43.5	38.7	38.6	38.7	37.7	38.6	37.6	37.7	39.2	38.7	38.8	38.7	40.7	40.7	41.0	40.7	38.7	36.2	35.7	36.3	36.7	36.2	38.6
11	37.0	35.6	38.1	37.9	37.2	39.2	34.7	37.7	38.7	37.8	40.7	42.6	44.1	38.7	40.7	41.6	41.4	39.8	39.7	38.7	36.7	34.3	35.7	37.2	38.6
12	38.2	36.7	38.4	37.1	37.7	37.6	39.6	37.7	38.6	39.2	40.6	40.4	39.7	41.6	39.1	41.5	40.8	40.7	36.7	36.7	36.3	38.6	39.7	39.7	38.9
13	39.2	38.6	38.7	38.7	38.7	38.7	38.7	38.7	39.2	40.2	47.2	53.0	48.5	50.5	49.6	43.6	39.7	38.7	35.8	36.7	34.8	32.8	37.6	39.7	40.7
14	37.6	37.7	39.7	39.7	37.7	39.2	31.9	36.7	38.2	39.3	39.7	39.7	39.7	39.7	40.7	39.7	40.5	39.6	34.7	34.8	34.3	35.7	39.1	40.7	38.2
15 Q	39.5	40.2	39.7	38.7	38.8	38.7	38.5	38.7	39.7	40.3	40.7	40.7	41.7	39.7	40.7	39.7	39.6	39.7	38.7	38.4	37.7	36.8	36.7	35.8	39.1
16 Q	36.7	38.7	38.7	39.7	38.7	38.2	37.7	38.7	37.7	37.2	38.2	38.7	39.7	38.7	41.6	41.6	38.6	38.7	36.7	36.1	35.6	36.2	36.7	37.6	38.2
17 Q	38.7	38.7	39.7	39.7	38.8	38.7	37.8	38.7	40.2	37.7	37.8	40.7	40.6	40.3	40.7	41.1	41.1	40.2	37.7	36.2	36.2	36.7	37.7	38.6	38.9
18	38.7	38.8	39.6	38.7	37.7	37.7	38.6	42.0	39.2	42.7	51.5	57.9	58.4	44.6	50.5	49.6	38.7	32.9	30.2	29.1	29.6	30.3	33.1	36.3	40.3
19 D	36.7	35.8	37.8	60.5	56.2	33.5	53.0	36.7	36.7	54.0	78.9	59.5	41.0	39.0	41.0	51.5	38.7	39.0	38.2	33.7	30.8	31.0	35.7	37.7	43.2
20	45.6	42.6	47.1	50.4	39.2	40.7	40.8	34.7	25.9	37.7	42.6	42.7	41.0	36.8	39.6	45.1	40.8	39.6	35.7	35.6	33.8	34.8	37.3	38.7	39.5
21	39.8	40.3	39.8	41.5	40.5	47.1	42.6	37.8	37.8	34.3	38.0	38.6	38.2	45.6	44.5	44.1	41.6	39.7	37.7	34.9	34.8	35.7	36.7	38.7	39.6
22	39.7	41.1	40.7	42.7	39.7	41.6	44.1	41.1	36.5	37.7	37.8	35.7	36.5	38.7	40.6	42.1	42.1	41.7	39.7	37.2	35.7	34.9	35.8	36.7	39.2
23	35.7	36.7	36.7	40.7	40.6	39.1	39.1	38.7	38.7	37.8	39.2	38.1	39.2	39.2	40.7	41.1	42.1	41.7	40.7	39.7	38.7	37.7	38.1	38.7	39.1
24	38.8	38.8	39.7	39.3	38.8	39.8	39.3	39.8	39.7	38.8	22.1	52.6	49.5	43.1	40.8	35.7	43.1	35.2	31.9	29.3	32.3	34.9	36.7	37.7	38.2
25	38.8	38.8	39.9	40.5	39.8	39.8	38.7	38.8	41.6	43.7	38.7	38.7	71.3	49.1	49.6	47.2	39.9	38.8	35.9	35.8	32.9	35.8	35.8	34.4	41.0
26 D	34.0	35.0	38.7	49.1	36.8	42.7	38.8	31.5	47.6	46.7	45.7	64.9	39.8	46.7	33.0	36.8	39.8	37.9	32.9	34.9	33.3	34.9	35.9	37.3	39.8
27 D	37.8	51.6	52.6	40.8	40.8	40.7	37.8	28.0	35.8	34.5	34.3	37.7	55.1	41.7	40.8	51.6	41.3	36.3	31.6	24.0	34.4	34.2	38.1	38.9	39.2
28 D	39.1	39.1	38.5	41.1	39.5	44.0	42.2	38.1	31.6	30.8	41.3	48.3	44.2	43.9	43.5	40.3	33.1	30.8	31.9	34.9	35.2	35.8	42.7	41.7	38.8
29	37.8	53.1	39.8	48.1	42.8	39.3	26.0	42.7	41.9	29.9	58.5	43.7	48.1	34.4	35.6	45.9	36.9	32.9	35.8	39.3	39.3	37.8	37.3	38.7	40.2
30	37.8	40.8	39.8	39.3	35.8	39.9	41.7	30.9	42.7	40.6	39.3	35.8	39.8	42.7	41.7	41.2	39.3	36.3	34.4	35.3	37.3	37.9	37.8	37.8	38.6
31	41.7	44.2	38.8	38.8	49.7	37.8	36.8	38.9	40.8	49.1	43.6	45.7	56.4	42.2	41.7	41.7	41.2	38.7	37.3	36.8	36.7	37.3	38.8	37.8	41.4
Mean	38.6	40.0	40.8	41.8	40.1	39.8	39.0	38.3	37.7	39.4	44.2	44.4	44.8	42.0	42.2	42.7	40.1	37.9	35.2	33.6	34.1	35.4	37.0	37.8	39.4

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

Table 3 Meanook

$Z = 58,000 \gamma +$

January 1953

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	882	896	905	927	897	881	873	863	773	765	753	765	842	851	886	866	877	849	860	866	877	877	881	880	858	
2	876	877	873	871	871	864	870	804	746	841	782	804	823	849	805	800	841	829	877	838	849	860	871	883	842	
3	882	883	879	879	871	871	871	870	871	866	863	862	853	851	863	887	877	866	858	863	863	870	870	871	869	
4 Q	871	871	876	871	871	870	866	866	864	859	860	858	861	860	860	858	855	854	838	849	860	862	862	862	862	
5 D	862	866	864	863	863	876	917	736	295	644	960	1006	905	827	866	878	873	843	847	870	870	876	892	895	841	
6	884	883	881	878	877	877	882	883	852	805	795	773	782	815	806	758	815	827	811	809	829	858	869	880	839	
7	882	881	881	878	878	883	851	860	886	872	830	833	737	793	811	808	801	813	831	854	870	871	872	873	848	
8	880	882	899	903	880	881	878	877	874	872	854	798	849	860	860	860	867	868	860	862	869	870	873	871	869	
9	893	896	882	872	871	871	876	864	863	855	849	825	804	840	855	860	862	860	854	850	857	861	866	871	861	
10 Q	871	874	880	872	870	871	869	870	867	861	864	863	863	861	863	864	855	869	851	850	855	861	867	871	865	
11	871	882	876	877	892	905	893	873	877	841	804	815	843	871	871	869	860	862	860	858	855	866	870	870	865	
12	871	873	880	882	887	890	893	893	893	884	876	866	871	859	860	858	857	861	853	854	855	860	861	861	871	
13	861	863	868	868	867	868	867	870	869	810	812	861	860	843	839	852	854	864	866	859	854	868	880	879	858	
14	881	893	899	897	899	858	843	881	880	870	869	864	863	866	864	867	867	861	867	869	873	876	876	876	873	
15 Q	874	871	869	869	867	867	870	871	871	858	862	864	860	854	854	857	861	866	864	864	867	868	869	870	865	
16 Q	870	870	870	869	869	869	871	869	867	863	870	866	860	859	854	854	854	855	850	852	858	861	866	861	863	
17 Q	866	866	866	866	866	860	866	866	867	866	858	858	859	854	853	852	850	851	839	842	847	863	861	862	858	
18	860	860	859	860	859	860	859	849	843	838	752	743	746	728	771	803	830	857	859	863	869	872	861	863	831	
19 D	867	878	897	930	889	897	819	801	863	804	621	771	841	823	804	832	847	864	863	868	867	871	880	897	846	
20	925	893	895	886	872	874	848	748	772	760	748	843	832	839	863	862	860	860	854	860	866	867	871	873	849	
21	876	871	871	869	866	860	841	849	821	726	813	805	827	855	859	850	851	858	860	861	861	866	867	868	848	
22	861	866	867	866	864	867	848	828	850	859	858	842	839	861	860	855	854	854	851	852	857	858	859	861	856	
23	859	888	903	887	886	878	864	860	860	854	850	851	854	855	855	855	855	855	855	855	855	855	855	855	862	
24	857	857	858	858	858	860	830	844	833	769	665	695	821	854	843	805	792	804	818	833	840	867	860	860	824	
25	860	860	860	860	860	860	854	854	840	822	650	564	677	844	844	832	849	833	860	858	853	872	881	872	826	
26 D	921	910	960	980	920	905	928	765	835	743	725	792	820	743	829	799	863	853	860	897	936	937	955	960	868	
27 D	917	938	912	910	910	887	871	723	804	816	782	718	721	587	620	805	821	824	896	868	879	864	878	883	826	
28 D	878	879	898	903	872	844	879	844	706	726	728	723	819	841	844	790	808	844	849	872	906	893	929	886	840	
29	905	961	921	910	884	898	804	866	864	819	743	831	810	757	728	820	853	838	863	883	883	873	876	871	853	
30	876	881	893	906	906	893	883	893	861	876	847	820	838	838	829	811	819	843	863	860	872	876	876	881	864	
31	891	899	903	903	916	903	874	876	863	831	776	704	810	854	860	854	860	860	871	871	873	876	871	873	861	
Mean	878	883	885	886	879	876	866	846	827	822	804	809	825	829	835	839	848	850	855	858	865	870	875	875	854	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4 Meanook

January 1953

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° East +		Minimum 24° East +		Range '	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	14 22	953	09 40	656	297	03 05	62.9	08 55	17.1	45.8	03 13	960	11 30	595	365
2	12 55	932	10 27	704	228	12 18	54.0	19 25	15.6	38.4	18 50	919	08 08	641	278
3	15 35	947	17 54	853	94	03 53	61.4	20 25	31.9	29.5	15 36	927	12 41	838	89
4 Q	18 49	912	18 41	853	59	02 35	47.2	19 27	32.8	14.4	02 50	882	18 43	840	42
5 D											11 31	1362	08 16	55	1307
6	23 18	912	16 05	661	251	15 52	50.6	19 27	17.0	33.6	00 31	893	15 46	688	205
7	20 27	902	12 45	630	272	06 02	54.0	12 57	17.7	36.3	05 55	899	12 28	696	203
8	21 59	908	11 36	830	78	02 33	63.4	21 58	30.9	32.5	02 58	918	11 40	782	136
9	22 45	925	11 51	842	83	17 22	46.7	11 30	30.9	15.6	01 05	916	11 57	773	143
10 Q	23 30	915	02 30	871	44	02 35	50.3	21 03	35.2	15.1	02 10	883	16 17	842	41
11	05 55	917	10 07	819	98	11 00	45.7	06 00	30.0	15.7	05 22	928	10 10	792	136
12	05 58	908	14 42	853	55	09 47	45.1	09 05	35.1	10.0	08 07	912	15 29	843	69
13	11 32	971	10 54	764	207	11 02	59.3	21 24	28.9	30.4	11 44	908	10 55	756	152
14	06 05	950	18 02	855	95	05 47	53.5	06 09	15.1	38.4	02 10	906	06 02	760	146
15 Q	09 15	924	22 36	866	58	09 15	44.1	23 32	35.7	08.4	09 14	882	09 24	828	54
16 Q	02 42	907	16 26	867	40	15 12	43.6	22 32	35.4	08.2	02 49	872	16 29	840	32
17 Q	08 22	905	10 15	869	36	08 07	42.7	19 48	35.3	07.4	07 23	871	14 42	849	22
18	15 19	916	13 30	441	475	12 02	69.1	18 45	28.1	41.0	03 34	866	13 25	626	240
19 D	04 53	1108	09 30	599	509	10 20	109.2	20 47	29.3	80.9	09 56	1283	10 30	471	812
20	01 05	939	08 24	693	246	03 00	59.4	08 20	13.7	45.7	00 34	949	08 15	581	368
21	06 13	908	11 32	767	141	06 53	54.4	09 05	24.0	30.4	01 40	880	09 20	661	219
22	06 28	924	11 54	845	79	03 03	54.3	12 00	31.9	22.4	05 55	879	12 10	804	75
23	01 50	908	01 15	863	45	11 20	43.1	02 18	34.8	08.3	02 09	896	10 16	843	53
24	13 40	921	10 19	430	491	11 36	63.3	10 25	-4.4	67.7	13 41	871	10 16	559	312
25	13 34	940	11 17	237	703						21 34	890	11 45	256	634
26 D	07 00	1096	11 34	476	620	11 33	89.0	07 43	20.2	68.8	03 10	1063	11 10	607	456
27 D	01 37	1080	12 03	245	835	02 20	71.0	19 12	11.3	59.7	01 36	1050	11 53	501	549
28 D	08 10	965	11 37	459	506	05 26	70.4	08 23	18.4	52.0	20 10	893	12 26	579	404
29	01 15	1112	13 56	683	429	01 26	69.8	06 35	-6.9	76.7	01 14	1061	06 26	682	379
30	07 00	1003	10 40	764	239	04 43	77.3	07 15	08.4	68.9	04 00	949	07 14	703	246
31	04 19	939	10 41	675	264	04 42	66.8	10 57	32.8	34.0	04 21	947	11 00	669	278
Mean		952		699	253		59.4		23.7	35.7		949		676	272
No. days		30		30	30		29		29	29		31		31	31

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

Table 5 Meanook

H = 12,000  $\gamma$  +

February 1953

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	892	891	888	885	884	885	897	892	892	886	889	888	890	889	888	885	880	878	870	877	879	881	880	889	886	
2	895	896	891	879	888	889	887	885	871	870	890	888	885	892	892	864	872	878	884	885	885	884	886	889	885	
3	892	891	879	895	895	896	893	894	893	894	866	842	896	899	895	889	880	870	877	885	886	892	892	893	887	
4	896	900	902	896	896	895	894	892	892	892	891	884	881	885	854	872	883	877	869	873	881	885	890	891	886	
5 Q	889	890	889	889	889	885	886	885	885	884	883	881	888	892	894	892	880	881	874	875	883	888	891	892	886	
6 Q	893	893	893	893	892	890	889	885	889	892	892	892	892	885	893	886	881	877	874	878	880	966	967	967	897	
7 Q	893	894	894	893	892	891	889	892	892	893	892	892	899	899	899	899	899	899	886	886	892	894	894	896	894	
8	894	894	893	889	886	889	892	892	894	889	904	904	902	901	893	892	892	891	886	887	887	887	891	889	892	
9	885	885	889	892	900	908	893	892	892	892	892	865	816	845	885	895	885	886	892	897	895	871	881	881	884	
10	889	889	885	888	888	888	887	887	887	889	885	884	889	881	874	869	889	892	890	885	864	876	888	907	885	
11	886	898	909	897	886	886	886	886	893	879	878	875	861	839	886	893	893	892	879	882	886	877	886	884	884	
12	886	888	886	886	889	887	887	887	887	887	865	872	879	886	880	878	876	874	883	883	883	883	883	883	882	
13 Q	883	883	883	883	883	883	883	883	883	883	883	883	883	883	883	883	883	883	887	890	893	886	886	893	884	
14	893	882	893	897	898	897	893	908	753	784	854	895	903	903	900	894	900	894	882	870	884	891	889	890	881	
15	892	885	881	885	893	924	895	878	879	873	873	901	901	897	896	895	890	886	886	882	886	890	900	890	890	
16	875	881	888	886	886	884	878	873	854	670	862	873	872	870	854	879	838	839	877	887	886	886	886	887	865	
17	895	901	900	894	897	908	937	870	811	788	850	901	900	904	903	897	891	891	886	884	886	893	897	897	887	
18	897	897	895	893	890	887	887	894	895	882	894	893	897	897	899	898	895	889	882	883	890	894	892	886	892	
19	890	901	902	895	897	901	895	900	864	859	889	886	872	897	895	886	892	881	879	878	882	880	893	890	888	
20	884	893	893	896	896	900	892	890	897	894	893	891	889	895	893	893	890	889	871	870	875	879	886	893	889	
21	898	886	879	893	900	894	893	880	854	891	893	896	889	894	893	886	885	878	879	880	879	880	880	880	886	
22 D	897	887	902	896	902	897	902	902	882	885	897	906	882	906	911	902	882	882	840	817	987	923	889	962	897	
23 D	943	932	985	987	1011	938	902	923	776	675	923	923	870	770	750	797	880	817	842	854	893	888	890	897	878	
24 D	895	908	1121	917	1001	933	878	861	771	829	833	745	614	743	872	862	850	874	862	843	839	878	900	944	866	
25 D	944	963	939	893	933	875	795	361	518	438	623	772	643	652	858	879	876	854	831	831	829	934	882	900	793	
26 D	899	918	952	1004	945	900	818	730	373	714	347	330	487	831	838	858	782	838	846	857	906	951	909	925	790	
27	937	926	895	879	886	909	931	918	823	571	706	546	857	875	864	809	868	868	870	870	792	893	900	872	844	
28	884	878	900	933	862	1081	902	868	859	846	846	864	858	864	855	860	873	870	868	854	858	874	878	879	880	
29																										
30																										
31																										
Mean	896	898	907	900	902	904	888	864	834	826	846	845	850	867	878	879	878	876	873	873	881	893	892	898	877	



DECLINATION  
Mean values for periods of sixty minutes; Universal Time

Table 6 Meanook

D = 24° E + ...'

February 1953

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	39.5	39.7	39.6	38.8	39.1	39.4	39.1	36.4	37.2	39.3	40.5	41.5	41.2	40.8	40.5	41.7	41.2	39.6	37.6	36.8	36.0	36.4	37.1	39.1	39.1	39.1
2	39.5	38.3	37.8	41.5	40.0	38.4	39.1	40.2	35.4	36.7	41.2	44.2	44.6	43.4	42.3	43.6	39.4	38.3	36.2	36.1	36.1	36.8	37.2	38.5	39.4	39.4
3	38.4	37.5	40.4	39.9	39.9	39.7	39.2	39.7	37.2	41.5	41.0	34.4	43.2	41.5	41.9	42.6	41.4	38.9	38.6	37.1	35.6	37.3	38.5	39.6	39.4	39.4
4	39.4	39.6	39.3	40.4	40.4	39.7	39.4	39.3	39.3	39.5	40.8	42.1	41.4	42.0	38.6	39.3	40.4	42.1	35.7	36.0	36.4	36.0	37.8	39.0	39.3	39.3
5 Q	39.5	40.0	40.0	40.0	40.0	39.5	39.4	40.2	39.5	37.9	40.2	42.1	44.3	43.1	43.3	42.3	40.5	40.7	37.7	35.9	36.1	36.5	37.3	37.9	39.8	39.8
6 Q	38.4	38.9	39.3	39.4	39.4	39.3	39.7	40.4	40.4	40.5	40.1	40.3	40.3	39.0	42.3	43.3	44.1	43.2	39.7	38.2	37.2	38.3	38.3	39.1	40.0	40.0
7 Q	39.3	39.4	39.4	39.4	39.4	39.4	40.1	39.4	40.2	42.1	40.8	39.3	41.6	41.3	41.7	42.0	42.1	40.7	39.8	38.5	37.5	37.6	38.6	38.5	39.9	39.9
8	38.6	39.2	39.4	39.2	39.2	39.4	39.4	40.3	39.4	39.0	38.9	41.4	41.4	40.1	41.3	42.3	41.9	40.6	39.5	38.4	37.6	38.7	38.3	37.5	39.6	39.6
9	37.5	38.3	38.2	37.9	37.9	47.7	39.7	40.3	39.2	39.3	40.0	40.3	37.5	47.3	44.2	43.3	41.6	36.9	37.0	36.1	37.3	37.0	33.5	35.9	39.3	39.3
10	35.4	35.5	38.1	39.5	39.5	39.4	39.6	40.5	41.1	43.3	42.0	42.9	43.0	45.5	39.1	40.3	40.8	39.5	38.2	38.3	39.4	36.4	34.7	39.8	39.7	39.7
11	37.4	36.0	36.4	35.6	35.6	40.0	39.4	40.4	42.5	46.7	45.2	44.7	40.2	38.0	38.1	39.6	41.3	42.0	39.8	39.5	38.6	37.7	38.5	38.4	39.6	39.6
12	38.5	38.5	39.3	39.2	39.2	39.3	39.8	40.3	40.9	41.5	41.3	42.4	45.0	41.5	42.3	39.5	38.3	38.0	35.5	37.6	36.2	36.9	37.6	38.6	39.5	39.5
13 Q	39.3	39.3	39.3	39.3	39.3	39.8	39.2	39.5	40.0	40.5	40.5	39.7	42.3	41.3	41.3	42.5	42.5	42.1	39.4	38.3	37.5	37.4	36.4	36.6	39.7	39.7
14	36.1	35.6	34.4	36.7	36.7	38.5	39.3	47.5	45.8	40.9	50.4	44.4	41.3	41.3	40.4	38.9	38.8	42.0	40.2	38.2	37.3	37.4	38.2	37.9	39.9	39.9
15	37.5	38.2	37.6	38.3	38.3	41.9	38.3	42.0	44.7	40.6	39.1	41.9	42.5	42.8	38.5	41.1	42.8	42.6	41.3	39.4	38.8	38.3	36.5	36.4	39.9	39.9
16	32.5	38.4	39.1	39.9	39.9	40.2	40.4	41.3	49.1	31.8	45.3	44.6	44.5	46.3	46.3	40.2	39.4	28.7	31.5	37.4	36.9	37.3	37.5	37.4	39.4	39.4
17	39.4	39.2	39.6	39.2	39.2	41.9	41.0	38.5	43.7	37.0	42.0	44.2	42.9	40.4	40.7	41.7	42.6	42.2	40.0	38.2	35.5	36.3	38.2	39.4	40.1	40.1
18	40.3	40.4	40.5	40.5	41.2	41.2	40.4	40.5	40.6	37.4	40.2	41.2	41.5	41.4	42.0	43.1	43.9	42.6	40.3	37.4	35.4	35.3	35.4	37.3	40.0	40.0
19	38.6	39.2	37.2	42.9	43.0	38.4	40.9	42.1	35.6	35.4	39.3	37.8	39.0	41.5	41.3	43.0	41.2	41.3	38.1	36.7	36.2	37.5	38.5	37.5	39.3	39.3
20	40.9	39.4	39.2	40.1	40.1	40.1	41.3	42.1	41.1	40.8	40.2	40.9	39.5	41.1	41.3	41.9	41.0	40.8	37.5	34.5	35.2	35.3	35.8	36.2	39.4	39.4
21	34.7	33.3	36.4	39.0	39.0	42.9	45.6	41.9	41.3	42.4	40.3	40.3	41.1	39.8	41.3	44.0	41.2	41.8	39.5	38.3	37.4	35.2	35.5	35.5	39.5	39.5
22 D	35.6	36.4	37.1	37.1	37.1	23.2	47.7	42.4	40.3	39.7	39.7	40.9	41.9	44.0	46.1	49.8	50.8	41.1	41.1	42.4	33.7	30.1	33.9	34.4	39.4	39.4
23 D	41.0	34.1	32.2	38.7	38.7	36.6	33.8	43.0	29.2	53.8	44.9	41.6	41.6	43.0	32.2	32.9	38.7	37.3	33.1	31.1	36.9	36.3	36.0	35.1	37.6	37.6
24 D	42.0	39.3	40.5	47.8	47.8	64.9	43.5	58.0	18.4	40.9	41.1	37.7	35.1	38.4	41.7	41.7	42.0	42.3	40.5	41.1	41.4	44.1	36.6	40.0	42.0	42.0
25 D	40.8	54.5	53.2	41.5	41.5	49.2	48.9	33.1	34.3	53.6	34.6	38.6	46.1	47.8	36.9	42.8	45.5	40.9	36.1	34.2	30.5	32.4	35.3	41.1	41.4	41.4
26 D	41.6	36.4	44.0	46.9	46.9	41.9	37.9	45.2	36.9	41.8	39.2	23.6	57.2	43.2	46.8	46.4	40.9	41.5	43.0	38.9	40.7	41.0	36.4	34.8	41.4	41.4
27	40.6	41.1	44.9	38.7	38.7	41.1	45.9	42.1	32.8	08.4	51.9	27.8	41.2	44.0	43.7	42.8	39.2	41.1	39.5	41.1	39.1	38.9	40.2	36.9	39.2	39.2
28	37.9	38.8	39.0	43.5	43.5	43.1	43.0	39.0	37.7	38.0	39.6	40.4	40.1	40.1	41.9	42.4	44.0	43.9	43.1	39.0	37.6	37.4	36.6	39.3	40.4	40.4
29																										
30																										
31																										
Mean	38.6	38.7	39.3	40.0	40.0	40.9	40.8	41.3	38.7	39.6	41.4	40.0	42.2	42.1	41.4	42.0	41.7	40.4	38.6	37.7	36.9	37.0	36.9	37.8	39.8	39.8

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

Table 7 Meanook

$Z = 58,000 \gamma +$

February 1953

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	871	871	871	872	880	883	863	866	870	871	876	871	866	863	863	863	863	867	862	863	867	870	870	871	871	869
2	871	871	873	878	872	867	868	869	854	838	869	870	860	860	860	859	860	858	860	864	870	870	872	869	865	
3	871	871	881	882	872	867	861	869	863	866	847	796	839	859	859	859	859	857	858	861	861	861	861	861	860	
4	860	860	860	864	863	859	858	858	858	858	849	839	815	825	820	827	838	839	847	851	857	860	859	859	849	
5 Q	855	855	855	855	855	855	852	852	852	842	837	839	839	848	845	849	851	851	849	853	855	858	858	855	851	
6 Q	854	854	854	854	854	854	855	855	849	849	851	851	849	835	839	850	850	850	849	850	852	860	858	854	851	
7 Q	855	855	855	855	855	855	854	854	851	844	850	841	847	848	849	850	850	849	848	852	852	855	855	855	851	
8	858	858	858	860	862	861	860	859	849	804	837	845	850	850	851	850	850	850	844	849	849	851	854	854	851	
9	858	859	860	862	890	882	871	864	860	854	849	830	725	723	793	814	838	849	848	850	859	860	883	873	844	
10	871	860	850	851	850	857	860	860	857	849	837	833	838	827	838	828	815	819	827	825	827	838	862	884	844	
11	869	884	916	902	881	866	859	864	876	847	840	840	827	804	844	851	851	853	848	848	850	851	857	857	858	
12	855	855	855	855	855	855	860	859	858	848	814	804	813	830	838	849	849	849	850	855	860	858	858	858	848	
13 Q	858	858	858	858	858	858	854	854	854	849	849	844	841	845	848	848	848	848	841	849	849	849	850	851	851	
14	854	872	882	880	871	867	867	853	648	704	776	838	849	849	849	847	839	841	842	849	850	849	851	859	837	
15	854	861	872	882	893	911	854	793	839	816	794	847	849	843	845	845	845	845	844	849	849	849	854	866	850	
16	916	913	879	860	855	854	850	854	786	634	737	794	806	779	770	810	805	838	832	849	854	854	853	859	827	
17	859	860	861	870	892	882	902	871	755	684	790	838	840	848	849	848	845	845	838	840	843	849	854	854	842	
18	852	852	852	852	852	852	851	835	835	814	829	849	849	849	849	849	849	849	849	849	851	855	855	855	847	
19	857	860	870	878	869	895	881	866	821	849	829	838	815	844	850	849	860	855	849	849	857	858	861	862	855	
20	871	866	860	858	858	858	858	854	849	848	848	848	848	848	848	848	848	848	844	844	849	851	851	859	853	
21	861	883	903	881	893	905	903	860	818	835	835	849	850	851	858	850	847	838	835	839	850	857	859	861	859	
22 D	869	874	881	880	879	882	858	847	835	830	810	835	805	827	828	815	832	827	837	823	858	940	910	929	855	
23 D	898	929	975	942	955	889	887	918	649	718	823	927	827	753	744	748	808	832	896	883	884	871	871	897	855	
24 D	926	913	958	932	938	815	843	737	637	751	799	760	737	737	818	829	844	861	877	877	921	947	924	960	848	
25 D	960	999	969	916	882	859	810	654	602	663	728	752	748	804	866	859	860	857	866	876	860	877	893	929	837	
26 D	897	905	964	910	860	848	703	803	838	757	637	659	655	854	827	864	806	843	893	882	927	921	909	927	837	
27	928	916	883	871	877	911	899	873	677	734	743	737	814	854	858	823	867	860	858	866	863	877	927	921	852	
28	882	872	884	936	905	969	895	905	872	849	849	860	858	857	862	859	871	877	878	863	873	882	878	881	880	
29																										
30																										
31																										
Mean	875	878	884	878	876	872	859	847	808	804	815	826	820	829	838	841	845	848	852	854	861	867	870	876	851	



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8 Meanook

February 1953

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,000 $\gamma$ +		58,000 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1 Q	07 02	914	22 24	862	52	06 00	45.1	07 05	32.2	12.9	05 25	889	06 48	849	40
2	01 59	914	09 00	845	69	13 12	46.3	08 25	33.5	12.8	03 27	882	09 15	818	64
3	09 34	907	11 23	814	93	02 55	45.3	11 30	29.2	16.1	02 51	893	11 23	772	121
4	01 12	908	14 24	830	78	13 10	48.9	14 48	33.3	15.6	03 40	871	12 12	804	67
5 Q	13 35	900	16 35	861	39	12 30	45.7	09 45	32.5	13.2	16 36	860	12 00	825	35
6 Q	14 15	900	18 22	862	38	16 25	45.2	13 12	36.0	09.2	06 25	860	13 55	818	42
7 Q	23 40	900	21 00	881	19	09 55	44.0	11 02	36.3	<u>07.7</u>	22 10	860	09 40	838	<u>22</u>
8	11 24	908	09 05	874	34	15 10	44.3	09 08	30.5	13.8	04 50	866	09 12	772	94
9	04 52	885	12 32	862	23	04 55	56.4	12 20	31.5	24.9	04 57	967	12 34	690	277
10	23 22	955	15 18	835	120	13 24	46.8	14 55	30.4	16.4	23 10	905	15 19	804	101
11	02 18	843	13 05	822	21	09 20	53.0	02 25	28.6	24.4	02 33	957	13 05	782	175
12	12 58	893	10 17	853	40	12 35	47.3	17 30	36.1	11.2	01 28	861	11 54	792	69
13 Q	02 17	880	17 25	862	<u>18</u>	16 15	45.1	22 30	34.6	10.5	05 40	860	11 34	838	22
14	07 59	1010	08 34	654	356	07 52	66.9	09 10	22.5	44.4	02 04	890	08 05	592	298
15	05 50	944	07 04	846	98	07 48	49.7	06 38	28.6	21.1	05 37	930	07 35	748	182
16	04 45	909	09 10	538	371	08 25	56.4	09 50	15.6	40.8	00 46	947	09 45	570	377
17	06 36	957	09 49	705	252	09 10	49.1	09 45	26.3	22.8	06 40	918	09 42	605	313
18	07 36	917	09 46	861	56	17 22	48.3	09 40	30.2	18.1	22 42	862	09 46	782	80
19	05 18	918	09 12	826	92	07 22	48.2	12 00	31.4	16.8	05 30	937	09 10	760	177
20	01 57	917	18 55	854	63	17 32	46.7	19 25	31.3	15.4	00 36	881	09 05	838	43
21	05 22	918	08 28	799	119	06 00	49.6	01 28	31.3	18.3	05 24	925	08 46	793	132
22 D	23 55	1243	19 59	774	469	06 30	65.1	24 00	18.5	46.6	23 55	1015	12 35	783	232
23 D	00 02	1198	09 05	534	664	08 55	77.4	08 35	-29.7	107.1	04 50	1014	08 42	353	661
24 D	02 40	<u>1632</u>	12 11	534	1098	07 50	90.0	08 10	-10.9	100.9	02 46	1072	08 06	514	558
25 D	01 03	1213	08 02	222	991	09 35	<u>91.2</u>	07 20	-11.6	102.8	01 00	<u>1140</u>	07 55	<u>136</u>	<u>1004</u>
26 D	03 26	1214	11 01	-38	1252	12 30	82.4	11 30	06.9	75.5	02 25	999	10 36	514	485
27	08 26	1061	11 17	388	673	10 35	64.7	09 10	-55.7	<u>120.4</u>	00 23	998	09 04	372	626
28	05 05	1208	04 16	706	502	05 30	77.5	05 10	-11.2	88.7	04 35	1036	04 07	508	528
29															
30															
31															
Mean		999		724	275		56.3		19.6	36.7		932		688	244
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 1953

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	870	882	878	882	886	886	870	893	737	709	827	850	886	890	884	878	870	870	858	862	861	866	895	899	862	
2 D	903	911	984	992	1069	1097	882	886	536	375	168	163	348	232	318	402	625	713	729	819	917	867	870	909	696	
3	901	895	937	1093	1039	976	838	675	666	717	690	563	820	892	897	897	890	882	870	867	874	890	875	882	855	
4	897	893	886	890	882	882	881	880	878	868	878	882	886	891	890	885	874	859	865	866	867	882	882	881	880	
5	886	890	885	877	882	877	882	882	882	882	882	886	886	883	880	875	862	865	872	872	873	868	858	875	882	
6	890	885	882	882	882	882	890	886	875	878	881	881	883	880	882	873	875	872	870	871	878	890	889	898	881	
7	975	976	865	866	874	873	896	846	870	816	803	827	843	827	858	886	882	866	841	843	864	873	870	878	867	
8	882	882	882	878	878	878	878	882	881	827	818	870	899	882	837	792	858	865	882	870	835	879	990	1248	886	
9 D	1344	989	1007	955	1003	1062	973	862	854	820	808	469	702	818	850	835	870	854	867	875	891	891	896	969	894	
10	967	1030	953	1053	1002	857	927	889	817	776	807	755	759	761	886	866	849	834	865	877	874	869	872	896	877	
11 Q	892	900	928	889	874	881	878	872	872	873	873	877	874	874	873	873	877	865	863	856	857	869	874	881	877	
12 Q	885	872	881	881	879	879	881	886	885	885	881	885	878	885	881	881	885	874	858	865	872	878	877	877	879	
13 Q	881	881	885	888	881	885	885	885	885	881	885	889	888	886	885	881	873	871	866	872	874	872	881	896	882	
14	896	885	887	900	904	898	892	892	892	893	896	892	896	888	889	890	885	878	871	874	866	877	871	876	887	
15	881	885	885	885	885	885	900	900	887	769	849	838	858	861	891	894	885	871	863	863	871	880	886	889	873	
16	881	877	881	858	890	884	880	868	858	861	872	881	872	886	886	885	872	859	787	869	873	867	877	874	871	
17 Q	881	886	879	881	889	875	877	878	889	889	892	892	896	889	889	881	876	865	855	857	863	873	878	881	880	
18 Q	885	885	885	892	882	885	885	889	889	892	877	885	881	889	890	889	878	864	858	861	873	881	881	889	882	
19	898	889	881	906	939	936	943	900	873	849	874	795	853	874	880	889	850	874	873	869	881	881	878	881	882	
20	921	921	890	875	872	873	869	874	873	869	849	849	874	886	886	885	881	863	860	849	858	850	857	904	874	
21	873	912	1096	1013	904	1004	907	821	607	849	802	617	839	874	889	856	864	850	816	849	903	871	880	871	865	
22	910	896	882	884	891	838	881	887	841	705	791	830	879	881	871	868	871	871	881	881	866	834	855	889	862	
23 D	896	905	913	1046	936	939	820	896	827	681	720	795	834	885	878	654	834	842	838	755	858	863	882	882	849	
24 D	904	917	945	916	860	889	787	747	853	311	559	473	669	830	819	791	842	845	756	808	848	975	1009	873	801	
25 D	912	890	889	935	896	905	834	632	571	619	595	655	481	842	771	834	834	788	818	863	903	888	889	889	797	
26	939	881	896	896	889	896	849	849	880	873	849	689	849	849	839	864	827	861	853	864	845	853	873	889	860	
27	889	913	904	907	911	891	927	881	824	857	500	452	834	896	865	885	873	864	858	853	856	869	874	896	845	
28	896	900	885	873	889	889	850	866	727	642	767	769	791	845	892	881	853	856	853	833	867	874	881	899	845	
29	943	920	896	889	899	920	900	818	838	881	881	896	894	897	894	887	882	865	849	845	854	865	877	879	882	
30	900	894	889	896	950	908	886	888	888	881	881	865	869	827	861	869	864	857	847	838	839	861	879	892	876	
31	892	888	889	885	882	881	888	888	889	889	892	882	845	888	885	882	865	849	842	839	831	853	866	838	872	
Mean	915	904	907	915	910	907	882	858	824	791	792	766	821	848	855	849	859	855	848	854	867	874	885	900	862	

MEANOOK MAGNETIC OBSERVATORY 1953 1954

DECLINATION  
Mean values for periods of sixty minutes; Universal Time

Table 10 Meanook

D = 24° E + ...'

March 1953

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	39.7	39.1	38.5	39.5	41.2	45.0	42.6	39.8	34.6	31.7	49.7	42.7	44.1	44.7	42.7	42.9	43.3	42.7	39.0	38.4	35.5	36.0	34.7	32.6	40.0	
2 D	39.0	33.5	42.4	49.3	39.5	43.9	45.4	46.3	21.8	45.9	75.8	87.7	36.5	28.7	08.0	45.4	44.8	35.5	36.9	26.2	35.5	37.0	36.5	35.4	40.7	
3	37.0	34.6	34.7	32.7	43.3	38.5	38.4	28.2	34.1	39.0	37.4	38.4	37.5	42.3	47.2	47.3	45.4	45.4	41.9	38.0	37.4	35.4	35.6	36.4	38.6	
4	35.5	44.4	45.2	38.4	39.3	39.4	38.9	39.4	38.9	37.4	38.3	38.9	38.9	40.4	43.3	43.3	43.3	41.3	38.4	37.3	35.9	35.9	36.4	38.3	39.4	
5	38.3	38.9	39.1	38.9	39.4	39.4	38.9	38.9	39.3	39.4	39.4	39.4	39.9	40.4	40.4	43.2	44.3	38.3	37.4	35.9	35.9	35.3	34.9	37.4	38.9	
6	38.4	38.5	38.6	39.3	39.3	39.4	38.9	39.3	38.9	41.9	40.5	40.4	40.1	40.5	41.3	42.8	43.4	42.9	37.4	34.5	34.0	34.0	34.0	32.6	38.8	
7	41.1	42.4	37.4	38.2	39.3	32.4	47.0	42.0	45.7	38.9	37.4	40.5	37.5	34.0	42.2	44.3	44.4	43.3	35.9	28.4	31.0	32.1	33.5	35.3	38.5	
8	36.3	36.2	34.9	34.0	35.3	38.4	38.4	38.4	38.9	39.4	38.3	41.5	40.3	42.3	38.5	37.9	42.2	36.3	40.9	39.9	37.3	33.5	28.5	37.4	37.7	
9 D	39.3	33.3	37.4	39.8	34.4	38.3	48.6	40.2	41.2	37.2	41.7	20.6	38.9	42.1	46.9	42.2	43.5	41.7	39.7	40.3	38.8	37.3	31.4	37.2	38.8	
10	34.4	35.2	38.2	41.3	42.1	30.3	37.9	39.2	32.0	29.4	40.2	39.3	37.2	32.3	44.1	46.1	43.6	38.3	34.7	38.2	37.3	36.4	34.4	33.3	37.3	
11 Q	32.2	33.8	39.2	32.3	35.2	38.0	40.2	38.3	39.2	38.3	39.2	39.2	40.1	41.0	41.1	41.9	43.3	43.6	44.1	40.4	36.3	35.7	35.3	35.2	38.5	
12 Q	35.3	37.2	37.2	37.2	37.2	39.8	37.2	39.1	38.7	39.2	40.2	42.1	41.8	44.1	43.1	45.1	44.2	41.1	38.1	35.1	33.2	35.1	34.7	36.1	38.8	
13 Q	36.6	37.1	37.2	37.1	37.2	38.0	39.1	38.1	39.0	39.5	39.6	39.6	40.1	40.0	40.4	42.0	42.9	43.2	40.9	38.2	37.1	34.2	34.2	32.2	38.5	
14	31.2	33.3	37.0	36.0	39.1	37.1	38.6	39.1	39.1	40.1	38.6	39.0	39.0	36.6	41.9	46.9	46.1	43.5	39.1	38.1	34.2	32.7	33.2	35.0	38.1	
15	36.1	36.1	37.2	38.1	38.1	38.2	47.9	46.0	38.1	31.6	43.0	44.1	34.6	41.5	46.9	45.6	44.0	41.7	39.1	37.1	34.3	35.1	34.6	34.3	39.3	
16	35.1	35.6	36.1	37.6	42.0	42.0	46.0	43.5	43.5	36.2	34.2	38.6	39.1	38.6	41.0	44.0	44.0	43.5	40.0	35.1	33.2	33.2	34.6	34.6	38.8	
17 Q	37.1	38.1	40.0	39.1	38.6	41.0	47.9	40.2	38.1	37.1	39.1	38.1	39.2	39.1	41.0	43.0	45.0	44.5	41.5	38.6	36.1	35.2	36.2	37.1	39.6	
18 Q	38.1	38.1	38.2	38.1	39.1	38.1	38.1	38.1	38.0	37.2	36.1	39.1	38.2	40.1	43.5	46.0	46.9	46.0	40.5	36.6	32.1	32.2	33.1	33.1	38.5	
19	32.1	31.2	35.2	42.4	46.8	38.0	43.5	41.5	41.0	36.2	44.5	40.1	42.0	42.9	41.0	41.5	42.9	43.1	40.1	35.6	32.2	34.2	33.1	30.2	38.7	
20	28.6	32.1	36.4	36.1	38.0	39.9	40.1	40.9	40.1	39.0	35.0	39.0	39.0	40.8	40.9	42.9	44.9	45.4	39.5	33.1	32.0	28.1	28.0	29.2	37.0	
21	31.9	28.6	45.0	34.5	40.9	42.8	42.9	41.8	43.4	39.0	42.4	30.1	34.2	40.0	42.9	45.9	42.9	39.0	37.0	34.1	34.9	35.0	35.0	34.9	38.3	
22	34.1	44.9	40.4	33.1	38.4	36.5	43.0	40.9	39.0	32.0	37.9	41.9	40.4	43.4	41.9	41.0	41.3	37.9	36.9	37.9	36.6	31.2	33.1	35.5	38.3	
23 D	33.1	34.0	35.0	52.3	40.1	47.8	40.0	41.9	46.4	46.4	28.6	37.5	47.8	42.9	43.9	41.9	33.0	32.1	37.0	24.3	25.2	29.1	34.1	35.8	37.9	
24 D	37.4	36.0	40.9	45.4	40.8	44.8	40.0	23.0	39.8	18.7	45.8	40.9	34.2	38.9	49.2	43.9	38.9	40.8	26.0	28.5	27.2	34.0	39.8	30.0	36.9	
25 D	29.5	55.6	36.4	45.8	38.9	36.4	37.9	39.0	40.9	46.7	42.7	40.7	38.9	43.3	45.8	41.9	39.9	37.0	32.0	30.7	36.3	35.4	36.8	34.4	39.3	
26	35.4	37.0	36.8	38.4	32.0	39.9	32.5	37.8	40.9	37.9	35.8	30.1	34.4	38.4	38.4	41.8	40.8	40.0	37.8	37.8	41.3	39.9	34.4	31.5	37.1	
27	35.4	34.0	43.8	39.4	44.9	38.4	35.9	27.9	45.8	34.0	33.5	38.9	37.4	38.9	39.0	42.7	43.3	42.8	38.4	35.9	34.4	33.0	34.8	34.0	37.8	
28	34.8	35.7	38.8	46.6	38.8	40.8	27.9	34.9	44.8	36.8	27.9	38.8	28.8	43.2	41.5	41.7	39.8	45.2	43.2	39.6	36.8	37.7	35.3	32.0	30.9	37.6
29	30.9	36.9	32.9	34.8	36.3	40.7	37.8	30.9	35.3	37.9	37.7	38.8	39.9	40.2	42.2	46.6	46.6	44.7	43.2	38.3	33.9	31.4	27.9	32.0	37.4	
30	31.9	31.9	34.8	37.7	41.2	43.2	38.8	37.8	39.3	38.3	37.8	35.3	27.5	33.4	41.2	39.3	47.6	42.7	36.3	30.9	27.5	25.0	28.8	31.8	35.8	
31	34.8	35.8	35.3	36.8	37.7	38.7	37.8	37.6	38.7	39.8	39.8	38.7	37.7	39.3	44.6	45.7	45.7	43.8	40.7	35.8	31.9	25.9	27.8	29.0	37.5	
Mean	35.2	36.8	38.1	39.0	39.2	39.5	40.3	38.4	39.2	37.5	39.8	39.7	38.7	39.8	41.5	43.4	43.5	41.5	38.4	35.4	34.4	33.7	33.6	34.0	38.3	

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

Table 11 Meanook

Z = 58,000  $\gamma$  +

March 1953

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	873	873	872	871	873	860	849	886	743	698	793	804	833	860	867	866	863	870	864	861	869	872	883	882	849	
2 D	905	917	970	939	940	905	850	780	694	936	659	738	236	737	587	719	798	823	913	905	903	877	864	877	811	
3	877	876	882	960	889	810	715	655	686	658	776	837	841	866	866	861	863	863	861	863	868	882	872	873	833	
4	877	910	900	882	876	870	866	860	866	843	831	854	853	860	860	863	863	861	866	864	864	864	864	864	866	
5	864	862	866	866	871	870	866	866	860	860	860	860	859	859	860	861	854	854	843	847	853	860	863	861	860	
6	866	866	866	863	859	860	860	866	854	859	861	860	860	858	861	859	855	855	841	853	854	855	855	866	859	
7	966	955	877	863	866	878	800	755	821	815	777	793	815	805	833	854	854	854	854	876	866	861	858	857	848	
8	864	866	878	899	889	870	866	860	855	726	727	804	854	849	828	776	833	843	844	849	864	899	944	877	851	
9 D	683	916	949	944	956	900	888	852	837	818	804	670	744	782	830	852	867	860	855	866	882	916	910	955	856	
10	958	971	944	952	911	809	927	910	810	777	813	777	772	800	860	849	843	854	838	860	861	864	871	887	863	
11 Q	899	916	926	895	892	905	900	871	860	858	858	860	864	864	866	866	871	872	850	850	852	860	863	868	874	
12 Q	877	877	871	866	866	870	871	870	868	859	844	833	833	844	854	850	854	854	849	853	854	854	857	860	858	
13 Q	866	864	860	859	860	860	866	867	864	861	860	859	854	854	860	863	854	854	843	847	850	852	854	855	858	
14	859	876	876	898	910	899	877	860	844	845	854	852	843	843	844	854	854	853	850	857	860	866	862	866	863	
15	866	864	867	863	867	864	870	860	860	665	771	732	715	773	843	866	861	858	853	852	852	860	860	866	834	
16	866	866	876	931	905	893	876	809	810	799	821	852	848	854	864	863	858	860	853	852	853	860	867	871	859	
17 Q	866	871	869	867	861	863	852	860	854	853	852	853	860	855	854	855	855	855	854	864	864	863	862	860	859	
18 Q	860	860	860	860	860	860	854	853	853	854	827	805	827	840	849	850	854	853	832	832	844	845	853	854	847	
19	861	876	882	910	889	921	931	870	827	796	827	684	760	777	840	832	820	852	860	859	862	878	882	895	850	
20	927	956	876	862	863	859	859	855	842	828	770	770	837	850	859	855	854	848	843	849	860	869	871	877	856	
21	861	895	936	971	926	969	910	867	828	789	785	786	801	837	859	848	860	857	861	883	909	876	871	869	869	
22	903	931	883	886	866	703	774	859	833	666	670	726	798	828	838	858	853	843	839	851	860	889	878	866	829	
23 D	877	877	921	917	940	882	592	821	804	722	811	665	726	821	843	849	863	848	889	882	899	887	860	867	836	
24 D	888	889	927	920	743	860	860	561	793	660	560	793	721	745	787	843	820	855	877	955	945	944	957	899	825	
25 D	910	911	912	878	877	872	771	793	598	669	776	786	732	798	776	876	843	849	888	890	899	897	887	878	832	
26	882	877	877	898	909	888	764	770	822	849	832	753	815	822	843	860	849	860	866	870	883	927	905	895	855	
27	882	899	899	921	877	859	860	810	769	916	737	687	764	866	855	876	872	866	864	864	876	888	892	888	854	
28	888	897	936	926	916	866	771	827	718	693	684	732	687	726	821	860	843	866	833	827	849	876	877	881	825	
29	921	910	888	888	903	916	882	889	895	821	844	868	866	864	864	864	854	860	860	861	876	872	876	880	876	
30	877	874	893	895	883	876	872	861	855	860	854	827	813	793	815	833	843	849	849	859	860	867	871	866	856	
31	866	866	866	866	870	881	871	871	859	855	854	841	815	837	847	853	854	854	843	854	849	871	882	903	860	
Mean	879	892	894	897	884	871	844	832	816	799	793	792	789	825	837	849	851	855	856	863	869	876	876	876	851	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12 Meanook

March 1953

Day	Horizontal Intensity						Declination					Vertical Intensity									
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° East +			Minimum 24° East +		Range		Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +			Range		
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1	07	02	917	09	01	579	338	10	07	55.4	09	28	09.9	45.5	07	05	911	09	00	581	330
2 D	05	51	1230	11	40	92	1138	03	35	62.9	06	58	-0.3	63.2	03	07	1031	06	50	434	597
3	03	25	1171	11	07	264	907	01	55	64.2	00	48	34.0	30.2	01	49	966	10	29	815	151
4	00	10	922	17	52	846	76	15	50	47.0	19	48	32.6	13.4	05	00	880	17	45	843	37
5	19	33	901	16	55	846	55	15	45	46.7	23	55	31.1	15.6	23	59	916	08	35	832	84
6	23	59	948	15	36	848	100	06	05	76.3	01	18	23.3	53.0	01	03	1043	07	00	659	384
7	00	09	1090	09	51	722	368	23	58	59.6	22	18	19.1	40.5	22	50	1027	09	57	658	369
8	23	20	1325	09	58	768	557	06	35	57.4	00	35	-1.4	58.8	02	16	994	00	22	531	463
9 D	00	30	1564	11	55	316	1248	04	30	58.1	05	10	-3.4	61.5	06	10	1016	05	12	687	329
10 Q	02	00	1267	12	32	685	582	02	15	49.6	00	20	29.3	20.3	02	10	994	10	20	860	134
11 Q	02	04	962	20	15	848	114	15	58	48.0	20	37	33.0	15.0	00	50	882	11	16	820	62
12 Q	11	25	894	17	55	861	33	17	30	46.4	23	59	27.8	18.6	06	50	871	23	43	849	22
13	23	50	928	22	49	853	75	15	02	50.4	00	01	26.8	23.6	04	49	938	14	15	832	106
14	00	34	942	19	24	834	108	07	07	55.5	09	42	22.0	33.5	06	20	893	09	42	548	345
15	06	44	932	11	50	413	519	03	32	56.2	21	25	30.4	25.8	03	26	1048	07	34	781	267
16	03	19	1055	07	36	853	202	06	30	52.8	21	05	34.4	18.4	01	30	879	06	55	839	40
17 Q	01	28	900	18	17	846	54	16	30	48.9	10	38	26.8	22.1	01	00	861	10	59	771	90
18 Q	14	17	908	18	35	838	70	04	15	67.1	05	25	24.7	42.4	06	22	974	11	46	579	395
19	04	16	1065	11	46	719	346	16	50	44.4	01	02	22.7	21.7	01	10	971	11	01	715	256
20	00	40	971	21	23	799	172	02	20	72.1	11	28	23.3	48.8	19	57	1024	10	55	706	318
21	02	19	1426	08	06	552	874	01	45	77.0	05	35	05.8	71.2	01	30	994	05	32	503	491
22	01	30	1002	09	18	620	382	10	05	76.9	06	12	-2.0	78.9	02	58	1005	06	30	468	537
23 D	03	08	1123	09	43	541	582	07	05	115.7	09	32	28.6	144.3	22	16	1047	09	25	372	675
24 D	03	55	1203	09	39	162	1041	12	00	93.9	05	47	18.6	75.3	03	33	1009	08	39	481	528
25 D	03	31	1242	12	04	282	960	06	25	65.9	06	57	11.3	54.6	21	05	949	06	46	593	356
26	06	23	1026	11	21	621	405	02	10	65.9	05	25	00.0	65.9	03	49	992	10	42	631	361
27	03	41	1190	11	22	327	863	06	07	72.6	11	05	16.4	56.2	02	55	980	08	45	559	421
28	07	09	946	09	39	541	405	01	05	53.7	00	35	27.0	26.7	01	00	1016	08	12	731	285
29	01	00	1019	07	27	791	228	04	40	80.2	20	30	26.2	54.0	04	19	938	13	35	753	185
30	04	34	1229	13	33	791	438	14	25	48.3	21	48	23.2	25.1	23	15	906	12	44	786	120
31	23	53	939	12	43	814	125														
Mean			1072			620	452			62.3			18.2	44.1			979			651	328
No. days			31			31	31			30			30	30			31			31	31

### HORIZONTAL INTENSITY

Mean values for periods of sixty minutes, Universal Time

Table 13 Meanook

H = 12,000  $\gamma$  +

April 1953

Day	Hour U. T.	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		933	891	888	889	889	894	885	899	867	802	830	856	797	869	878	869	853	837	849	856	863	870	881	910	869
2		896	900	892	889	898	941	904	874	646	570	806	881	899	900	887	871	850	835	845	845	855	865	955	963	861
3		888	894	896	896	893	897	901	892	897	895	889	889	881	881	871	863	860	863	849	849	850	863	886	908	881
4	D	1035	1114	1147	1047	918	908	950	952	880	794	773	704	720	693	772	812	848	853	795	831	856	880	887	874	877
5	Q	869	870	866	866	871	870	871	869	865	853	825	847	877	870	853	855	855	856	850	847	854	854	856	865	860
6	Q	874	880	893	909	919	891	871	856	839	825	798	866	863	866	870	865	855	847	846	845	854	857	858	859	863
7	Q	871	872	874	867	869	869	871	874	876	876	879	878	878	877	871	853	845	846	854	861	863	869	870	877	868
8		873	863	871	878	892	908	885	889	874	875	855	835	839	857	860	874	864	855	857	857	865	866	861	855	867
9		873	896	891	905	900	889	879	879	879	879	850	863	885	881	878	869	867	856	870	881	881	872	877	874	878
10		878	879	889	889	916	949	947	917	881	796	744	726	861	902	892	878	877	875	863	861	871	866	864	878	871
11		891	885	883	889	913	804	658	485	537	520	663	778	873	887	870	870	830	789	863	863	869	873	889	879	802
12		890	881	877	878	879	896	903	874	831	726	713	545	857	875	891	882	878	877	864	866	865	871	871	879	849
13		890	877	864	878	877	878	871	863	753	830	892	842	760	740	867	867	853	852	850	865	877	881	886	854	854
14	Q	884	891	885	875	874	879	881	885	883	884	884	871	863	877	881	878	863	853	853	853	863	866	871	881	874
15		880	880	866	876	878	888	887	891	863	799	791	862	877	893	894	885	877	858	855	845	855	859	869	883	867
16	D	884	881	892	947	744	794	686	542	726	771	681	795	693	650	634	759	852	868	881	880	858	873	915	909	796
17		931	932	971	871	873	880	902	831	892	892	872	658	719	795	884	880	863	864	860	861	863	861	866	869	862
18		840	858	861	822	812	823	923	790	832	942	966	889	876	883	885	884	885	885	881	876	873	886	884	884	872
19		890	881	893	941	877	853	851	872	876	848	854	796	442	790	847	814	816	877	889	884	876	883	880	904	847
20	D	940	920	952	912	934	841	555	614	818	857	818	714	819	734	698	852	883	866	875	876	876	877	920	908	836
21	D	999	926	935	966	961	938	903	482	509	780	725	837	821	823	859	887	862	822	836	878	895	895	906	920	848
22		898	911	904	887	904	904	897	793	714	760	769	775	798	756	726	754	818	848	877	897	910	900	945	905	844
23	D	919	889	928	920	896	895	849	862	768	811	771	817	779	850	830	818	853	860	865	894	894	894	897	919	862
24		907	890	891	890	890	891	889	887	890	890	891	897	894	894	894	894	883	874	885	885	885	886	888	892	890
25		886	888	892	892	897	902	904	903	904	900	847	866	885	912	912	906	897	890	877	886	881	883	898	898	892
26		898	902	887	898	877	872	877	898	898	875	855	898	866	855	854	875	887	875	881	883	889	887	890	895	882
27		908	916	902	885	884	889	891	884	883	884	885	884	883	873	884	894	881	866	861	861	870	872	890	893	884
28	Q	903	917	910	894	897	897	909	867	847	867	873	863	842	901	896	884	873	861	866	870	873	878	883	889	882
29		911	913	897	897	897	897	901	889	900	900	886	881	895	883	882	877	873	860	858	861	865	872	889	889	886
30		905	912	904	901	892	885	885	881	876	881	853	868	880	890	889	863	856	865	861	858	854	867	860	880	878
31																										
Mean		901	900	903	898	887	884	866	830	827	824	822	824	830	846	849	861	862	858	861	865	870	874	886	891	863



**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 14 Meanook

D = 24° E + ...'

April 1953

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	34.5	36.9	34.3	35.5	36.8	39.0	35.9	40.9	39.2	43.0	50.6	45.0	40.1	40.9	49.7	50.8	47.0	44.1	37.2	36.3	35.0	34.2	35.0	33.1	39.8
2	32.1	39.3	37.3	34.7	44.1	39.1	39.0	34.3	25.3	37.2	44.9	41.1	41.4	42.1	44.2	46.1	44.1	39.3	35.9	33.0	33.7	32.4	32.4	32.4	37.7
3	30.7	33.2	40.3	34.6	38.2	41.0	35.9	40.0	40.5	38.0	39.0	39.3	41.0	44.2	45.8	47.0	45.0	44.1	41.7	35.9	31.1	28.4	26.4	22.3	37.6
4 D	41.3	31.9	32.9	35.4	42.0	39.2	35.1	36.5	37.5	36.1	36.1	39.6	34.2	43.3	39.0	44.9	45.5	49.1	40.9	35.0	36.3	40.0	39.5	39.5	38.8
5 Q	46.6	45.1	41.4	42.1	42.2	42.1	42.1	43.9	42.9	40.9	41.5	43.1	46.9	49.7	47.7	45.5	43.0	42.9	42.7	40.0	40.9	39.0	37.9	38.7	42.9
6 Q	35.0	34.8	35.0	43.4	39.8	45.7	43.0	40.2	31.9	40.7	41.0	47.4	45.5	48.1	49.7	50.9	51.8	49.1	47.2	45.9	41.6	39.7	38.0	37.0	42.6
7 Q	37.2	38.3	40.1	41.0	41.5	42.0	42.0	42.0	42.0	42.0	42.0	42.1	42.0	43.8	45.9	45.9	46.9	46.1	42.5	40.6	39.0	37.8	35.9	35.2	41.4
8	35.1	37.0	39.8	40.5	40.9	39.0	42.9	41.8	42.5	50.6	44.9	48.5	48.9	46.7	43.0	46.9	48.8	46.8	43.3	40.5	38.1	36.9	34.6	35.0	42.2
9	33.0	31.9	36.0	47.3	44.9	41.9	40.7	40.6	42.3	41.9	41.8	45.8	45.9	48.9	50.0	49.9	49.8	47.7	40.5	39.8	37.4	36.1	36.9	36.1	42.0
10	36.6	38.0	38.4	39.5	39.0	44.6	43.9	42.8	43.6	41.3	37.3	46.4	54.2	53.1	49.7	39.0	48.9	47.7	46.3	45.9	41.9	39.7	38.5	38.1	43.1
11	37.8	38.1	39.8	41.1	53.1	63.3	52.6	44.6	54.3	28.7	35.8	51.7	50.8	47.8	48.9	48.2	45.0	35.7	40.5	36.6	38.0	38.4	37.9	36.7	43.6
12	37.0	40.0	41.6	40.0	39.7	42.9	51.0	54.9	48.7	46.8	38.6	43.8	42.9	52.5	53.6	51.5	48.4	45.9	42.0	41.5	39.1	39.0	39.6	39.8	44.2
13	39.8	40.8	45.2	39.6	39.8	40.5	40.8	42.0	59.4	44.2	44.7	45.5	44.6	42.6	41.7	47.7	45.9	38.7	43.4	39.7	39.4	38.7	38.4	39.1	42.6
14 Q	40.2	40.6	41.7	44.3	42.9	47.8	41.4	40.9	40.9	41.5	41.8	40.5	40.7	47.6	51.7	52.4	51.7	49.5	44.7	39.6	36.8	36.0	37.3	48.6	43.4
15	40.6	40.8	51.7	47.5	41.8	41.7	41.3	40.6	38.8	34.4	37.8	48.4	46.7	48.6	48.5	50.3	52.5	50.8	45.9	40.9	35.7	33.8	33.6	35.8	42.8
16 D	38.8	40.9	42.0	48.6	60.2	49.5	38.5	63.3	48.7	41.4	34.7	41.7	41.9	45.3	51.6	52.9	46.7	46.3	44.8	44.1	40.4	36.3	37.9	35.5	44.7
17	41.1	42.7	39.7	39.2	38.9	39.7	36.0	37.8	41.0	43.3	40.9	44.9	47.1	59.4	53.8	50.6	50.7	48.8	45.4	42.6	40.3	37.7	35.3	35.0	43.0
18																									
19																									
20 D																									
21 D																									
22	32.7	35.8	43.3	43.3	37.5	37.5	40.7	32.6	29.7	25.5	49.4	39.5	39.3	51.3	46.4	41.0	30.3	32.3	37.2	39.6	39.0	34.4	31.6	34.0	37.7
23 D	37.6	32.7	32.6	53.3	53.3	49.2	31.5	39.4	36.8	35.6	36.6	36.3	36.8	41.4	42.5	38.2	37.8	38.4	39.3	41.2	36.3	35.6	35.5	38.5	39.0
24	33.8	34.1	35.5	36.4	36.9	36.8	40.5	39.5	38.1	37.3	37.3	37.4	40.4	40.5	40.7	43.2	45.3	42.8	42.5	36.4	37.5	30.4	29.5	29.6	37.6
25	30.7	33.4	34.6	35.6	35.4	34.7	35.6	36.6	40.7	38.2	38.1	37.8	45.5	46.4	45.5	47.8	46.4	44.7	42.3	35.9	35.0	33.9	31.4	31.2	38.2
26	33.1	33.6	41.0	38.6	40.6	40.4	36.9	40.0	37.3	38.2	36.0	32.6	37.5	41.3	44.6	43.7	44.4	41.9	39.4	37.6	36.5	34.6	32.5	32.6	38.1
27	29.6	29.7	38.9	35.7	35.4	37.4	40.7	37.5	39.2	41.4	41.1	41.0	38.5	38.9	43.4	44.0	44.3	44.4	40.1	37.4	33.4	31.9	31.7	32.5	37.8
28 Q	34.4	33.4	33.5	34.5	37.2	39.8	38.4	48.6	44.9	43.6	40.1	35.5	33.5	42.1	49.2	45.8	46.3	43.4	38.8	35.2	32.4	31.1	31.1	31.5	38.5
29	32.0	32.8	33.6	33.6	34.3	34.0	33.7	37.8	36.7	35.9	36.6	36.9	40.7	44.0	46.2	41.8	43.5	40.6	38.6	33.4	30.3	29.6	30.1	31.3	36.2
30	31.9	32.2	34.0	35.8	34.9	34.7	35.4	45.2	45.3	37.5	36.4	44.0	47.2	47.0	50.8	49.0	48.3	35.2	36.1	33.7	27.0	26.1	28.7	31.4	37.8
31																									
Mean	35.9	36.5	38.6	40.0	41.2	41.7	39.8	41.7	41.1	39.4	40.2	42.1	42.8	46.1	47.1	46.7	46.1	43.7	41.5	38.8	36.6	35.1	34.5	35.0	40.5

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

Table 15 Meanook

$Z = 58,000 \gamma +$

April 1953

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	938	878	873	887	882	810	828	880	832	709	735	793	775	833	854	850	850	858	863	863	860	862	860	874	844	844	
2	888	927	918	890	891	899	889	847	675	631	718	830	858	864	859	860	858	854	864	860	866	877	877	884	849	849	
3	892	911	921	920	899	820	866	862	859	860	860	860	855	854	843	843	849	847	849	859	860	864	878	839	865	865	
4 D	959	958	820	922	927	911	907	870	843	905	765	736	721	715	804	799	804	820	849	871	855	866	848	849	847	847	
5 Q	853	838	832	854	855	827	804	810	810	765	765	789	821	821	821	821	821	821	824	824	829	837	843	850	822	822	
6 Q	857	869	889	909	928	910	860	802	786	782	741	798	803	810	820	827	827	827	827	827	827	827	832	838	834	834	
7 Q	843	838	838	832	832	832	827	827	827	827	827	827	827	827	827	821	821	821	821	827	829	829	830	834	829	829	
8	844	839	830	832	866	887	866	854	829	813	798	775	771	802	810	827	827	818	824	824	821	825	842	849	828	828	
9	852	877	877	882	877	873	838	832	828	824	766	770	802	813	827	827	822	815	811	811	811	818	821	825	829	829	
10	927	927	927	925	861	863	843	860	831	695	604	666	760	804	805	804	815	822	822	822	824	827	832	833	821	821	
11	834	833	834	851	912	747	643	643	576	682	541	704	793	827	814	816	804	783	827	828	829	832	833	833	776	776	
12	840	850	849	849	843	849	831	735	704	698	682	576	771	777	822	825	827	827	827	827	828	832	833	834	797	797	
13	839	852	861	843	834	829	827	805	784	591	743	822	786	725	753	815	818	835	838	838	838	838	838	838	808	808	
14 Q	835	837	838	844	831	828	831	830	827	827	827	804	791	810	876	824	824	824	824	829	829	830	829	831	828	828	
15	834	839	845	833	827	828	827	764	673	676	682	757	789	823	828	825	825	822	822	822	822	821	821	822	801	801	
16 D	832	847	898	879	734	831	754	837	988	889	764	764	741	743	698	771	833	860	832	824	834	860	877	852	823	823	
17	821	805	864	853	843	848	782	587	774	831	820	715	690	698	799	830	828	833	829	823	822	822	821	822	798	798	
18	851	867	904	870	874	838	752	658	748	814	813	861	850	850	849	848	842	849	852	852	851	861	865	863	837	837	
19	869	870	879	914	868	836	809	814	824	812	759	760	648	724	744	733	792	838	852	859	858	870	880	914	822	822	
20 D	923	886	940	865	900	708	666	688	564	748	764	715	797	781	781	836	853	855	857	857	865	876	932	909	815	815	
21 D	949	888	909	897	892	885	887	630	614	731	753	787	783	795	820	855	848	840	885	861	853	865	886	881	833	833	
22	866	897	904	892	890	876	834	688	637	766	684	750	752	775	802	766	775	807	842	863	874	872	904	916	818	818	
23 D	887	865	892	889	829	780	799	820	742	782	725	701	792	809	807	823	836	837	856	867	870	875	876	891	827	827	
24	865	859	853	855	859	858	851	848	842	841	845	850	842	849	845	845	845	843	839	836	836	839	842	848	847	847	
25	845	846	846	846	848	859	865	852	828	842	721	771	787	818	830	841	837	832	826	831	833	842	843	861	831	831	
26	861	852	861	834	843	834	770	781	834	816	801	818	802	818	801	809	820	820	830	833	841	843	865	882	828	828	
27	887	909	898	862	853	856	830	824	818	819	832	837	842	831	831	848	848	848	842	842	840	842	853	859	848	848	
28 Q	865	863	887	892	876	843	867	822	800	814	798	785	748	842	853	853	853	847	841	841	833	836	841	842	839	839	
29	847	852	851	851	853	853	856	831	853	842	822	809	820	830	824	822	829	833	840	842	842	842	842	845	839	839	
30	851	862	881	909	904	861	842	850	775	810	784	795	820	831	810	803	819	841	853	853	865	865	860	853	842	842	
31																											
Mean	868	868	874	873	864	843	822	792	778	781	758	774	788	803	815	822	828	833	839	841	842	846	853	856	828	828	



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16 Meanook

April 1953

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° East +		Minimum 24° East +		Range	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +		Range
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	05 08	997	09 30	730	267	05 20	56.9	06 15	17.3	39.6	00 24	993	09 20	641	352
2	05 45	988	09 08	459	529	04 30	60.3	08 02	11.7	48.6	04 26	950	09 11	525	452
3	05 10	947	19 04	837	110	05 15	51.1	23 55	15.7	35.4	02 10	949	05 25	750	199
4 D	02 45	<u>1363</u>	13 41	593	770	13 45	64.7	02 52	<u>51.8</u>	<u>115.5</u>	00 21	1038	02 49	570	468
5 Q	12 35	892	10 47	791	101	00 20	52.6	23 55	34.7	17.9	00 21	880	10 50	736	144
6 Q	03 44	961	10 06	752	209	08 12	58.2	07 40	29.6	28.6	04 58	971	07 38	718	253
7 Q	23 04	892	16 37	838	54	15 42	48.3	23 40	33.5	<u>14.8</u>	00 15	850	15 41	814	<u>36</u>
8	05 50	931	11 35	808	123	09 15	55.5	05 48	30.9	24.6	05 10	911	11 31	747	164
9	03 42	946	10 32	817	129	03 50	59.5	02 35	29.3	30.2	03 35	917	10 49	737	180
10	05 56	1010	10 57	615	395	12 30	60.7	10 55	08.3	52.4	04 51	893	10 09	517	376
11	04 15	1018	09 11	<u>139</u>	<u>879</u>	08 50	<u>101.2</u>	09 05	13.6	<u>114.8</u>	07 57	983	08 20	403	580
12	07 20	947	11 00	350	597	06 55	72.6	11 10	16.0	56.6	06 44	867	10 55	453	414
13	08 44	939	09 35	640	299	08 45	79.9	09 22	26.2	53.7	02 12	876	09 25	484	392
14 Q	01 40	908	17 24	834	74	04 20	54.5	11 48	37.5	17.0	03 40	860	11 50	771	89
15	12 57	909	10 15	720	189	02 40	60.1	10 08	25.1	35.0	02 35	859	10 04	618	241
16 D	03 56	1087	07 10	403	684	13 18	65.6	07 35	12.8	52.8	08 55	<u>1105</u>	04 02	619	486
17	01 16	1017	11 42	698	319						01 20	989	07 34	492	497
18	14 03	1076	07 59	795	281						02 15	944	07 42	566	378
19	03 12	930	12 12	385	545						03 11	976	12 08	552	424
20 D	02 55	1201	06 23	411	790						02 56	1025	05 41	<u>318</u>	<u>707</u>
21 D	03 42	1053	08 17	425	628						00 25	1010	08 00	463	547
22	22 59	998	08 49	613	385	13 25	61.9	19 02	13.1	48.8	23 56	944	08 47	537	407
23 D	03 00	1053	08 24	630	423	05 18	72.1	06 25	04.6	67.5	03 00	1003	12 00	659	344
24	23 24	951	17 42	864	87	16 15	47.8	24 00	29.6	18.2	00 01	875	20 15	823	52
25	14 58	928	10 43	797	131	12 40	51.2	23 12	26.0	25.2	06 35	875	10 14	685	190
26	06 34	986	06 15	728	258	06 38	63.7	06 08	-9.2	72.9	06 26	777	06 13	488	289
27	01 50	937	13 48	850	87	02 12	48.8	01 02	26.0	22.8	02 03	944	06 44	785	159
28 Q	06 28	942	12 01	787	155	08 55	52.4	12 02	24.5	27.9	03 04	909	12 06	666	243
29	07 13	928	14 35	838	90	14 12	49.4	20 45	29.5	19.9	06 53	877	07 27	775	102
30	07 06	930	07 33	828	102	07 05	53.0	11 40	31.4	21.6	03 55	932	07 35	680	252
31															
Mean		989		666	323		60.0		17.5	42.5		933		620	313
No. days		30		30	30		25		25	25		30		30	30

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

Table 17 Meanook

H = 12,000  $\gamma$  +

May 1953

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	889	890	889	885	884	888	881	885	879	873	859	884	890	893	885	886	884	869	865	862	861	869	876	894	880
2 Q	920	905	901	889	887	888	889	889	890	893	884	865	895	895	896	893	885	873	865	865	867	870	873	880	886
3 Q	893	900	896	894	886	893	896	894	897	894	894	893	889	897	892	888	883	881	868	868	858	869	887	892	887
4	897	890	901	900	892	896	887	887	851	829	883	893	901	900	891	878	872	870	875	879	881	886	898	899	885
5	895	891	885	916	928	912	915	901	734	839	905	881	880	882	894	889	865	847	858	861	870	908	915	941	884
6 D	955	1106	1108	1004	1002	1056	998	940	854	764	380	351	654	787	922	901	901	885	894	886	898	908	928	948	876
7	1013	1020	944	901	900	814	825	721	717	705	807	612	830	900	889	887	880	877	883	881	890	892	908	901	858
8 D	923	925	901	959	894	745	286	784	901	821	764	865	900	889	869	850	845	858	850	888	894	916	912	925	848
9	944	923	889	889	901	915	893	850	820	551	630	784	885	893	853	843	878	876	880	897	901	908	936	917	861
10	891	886	886	889	889	894	894	873	814	651	736	803	873	862	869	878	866	864	886	890	897	883	894	897	861
11	905	905	894	905	892	916	907	854	807	775	917	901	894	889	894	894	886	878	872	876	879	885	889	891	883
12 Q	894	897	900	900	900	894	897	901	898	897	914	901	892	900	901	878	878	869	873	873	875	872	885	886	891
13 Q	892	897	897	892	894	892	894	897	898	892	892	901	908	905	905	893	881	870	873	877	887	890	893	894	892
14 Q	897	896	892	891	892	894	893	900	897	894	900	901	901	898	900	898	892	887	883	887	876	878	886	889	892
15 D	901	901	908	910	916	909	917	909	908	908	898	905	849	657	669	776	837	822	786	839	846	940	798	944	860
16 D	912	953	1028	1009	905	701	560	380	544	364	752	765	867	255	443	466	501	560	849	959	948	1236	1342	1385	778
17	1242	1166	1077	978	936	918	916	885	876	877	870	871	869	870	857	814	881	858	850	865	889	871	897	904	918
18	919	873	884	883	888	862	814	654	764	659	671	846	858	834	885	883	877	861	862	870	883	897	897	936	844
19 D	952	933	916	971	923	920	831	634	650	650	505	729	897	878	889	892	881	869	854	878	876	959	997	979	853
20	987	928	897	893	881	881	870	775	689	862	885	850	869	881	869	869	854	847	845	864	878	889	909	915	870
21	897	897	901	901	894	880	872	823	816	877	877	838	877	893	869	856	846	857	859	865	865	897	901	905	873
22	881	897	892	909	898	897	900	901	894	889	885	869	850	870	876	861	854	853	855	865	865	871	889	912	880
23	905	890	884	895	876	877	885	877	850	849	878	871	885	886	885	871	865	850	847	874	893	903	903	905	879
24	886	887	884	888	888	888	895	900	901	908	910	905	893	905	901	884	861	846	850	858	884	886	889	889	887
25	897	895	897	897	896	893	894	896	900	902	903	897	883	893	893	889	876	867	879	881	881	897	893	896	891
26	891	894	905	897	898	897	901	908	910	899	891	892	912	914	912	897	872	858	852	864	885	894	906	916	894
27	901	908	909	918	966	829	768	637	466	407	466	689	842	852	830	871	902	901	897	829	886	923	899	891	808
28	898	906	916	912	886	892	901	905	894	893	901	885	861	842	854	862	861	869	866	879	901	906	900	901	887
29	896	889	889	880	889	893	895	905	896	869	879	888	858	842	874	877	884	877	870	865	869	873	889	897	881
30	890	884	894	889	887	887	887	888	897	893	885	883	886	886	892	893	892	885	881	881	883	888	890	897	888
31	903	916	901	889	888	892	890	888	889	883	879	881	886	883	889	879	890	885	870	874	865	870	885	903	886
Mean	921	921	915	911	902	884	856	837	826	802	816	835	872	853	863	861	862	857	864	874	882	904	912	923	873

MEANOOK MAGNETIC OBSERVATORY 1953 1954

### DECLINATION

Mean values for periods of sixty minutes; Universal Time

Table 18 Meanook

$D = 24^{\circ} E + \dots'$

May 1953

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	35.1	36.1	36.5	36.1	36.9	38.9	38.9	38.9	37.0	35.1	31.5	34.0	38.9	41.9	44.3	45.4	45.8	42.8	36.0	36.0	31.0	31.0	31.0	31.0	31.0	37.1
2 Q	31.4	33.1	33.1	35.3	35.5	35.5	36.0	36.1	36.9	36.5	35.5	35.0	39.0	42.7	44.8	44.8	44.7	42.7	38.4	34.0	31.0	30.2	29.7	30.9	36.4	
3 Q	33.0	34.0	35.1	36.0	36.0	36.0	36.8	36.8	36.9	38.4	37.9	37.3	38.0	41.9	42.3	41.8	42.8	39.8	37.5	36.0	31.5	30.2	30.0	30.2	36.5	
4	31.0	34.0	36.0	40.0	35.1	36.5	37.9	39.1	41.3	36.0	38.9	38.8	39.9	42.3	43.8	44.8	42.8	40.9	38.9	36.8	34.0	33.0	32.0	30.5	37.7	
5	29.5	29.0	30.4	24.2	34.7	31.5	33.0	32.6	34.0	48.8	40.9	41.7	41.9	45.0	42.8	41.9	41.9	38.9	32.1	30.1	26.5	25.6	23.7	20.2	34.2	
6 D	19.1	24.2	25.5	30.2	34.0	32.0	32.4	30.1	35.0	34.4	33.9	30.1	42.8	57.6	46.8	78.7	43.3	39.9	35.5	31.9	30.5	28.5	29.1	33.0	35.8	
7	31.9	32.0	43.3	30.1	34.0	41.4	32.0	27.1	32.5	31.0	35.2	30.5	34.0	44.9	45.9	44.8	40.4	37.9	33.4	31.0	31.1	32.0	32.1	33.0	35.1	
8 D	33.6	36.0	40.7	39.3	48.7	29.5	-5.0	39.8	40.8	33.4	26.0	31.4	43.8	45.2	48.2	44.7	39.8	33.4	21.2	21.3	22.1	33.1	34.0	37.7	34.1	
9	33.9	37.8	33.9	33.9	34.9	65.9	40.8	44.7	40.8	38.7	25.9	30.4	40.3	44.6	42.3	41.8	38.2	37.9	32.9	32.8	32.9	32.8	36.8	36.8	38.0	
10	33.9	33.8	34.9	39.8	39.7	39.8	35.0	36.7	30.9	33.8	39.3	34.0	38.3	45.2	40.9	41.8	40.8	36.4	33.9	31.9	32.5	30.9	31.9	32.8	36.2	
11	32.5	35.5	35.0	35.3	36.7	36.1	38.3	39.5	31.9	40.3	42.7	40.8	42.7	42.3	42.7	43.7	43.2	40.8	38.3	35.9	33.4	33.4	33.4	32.9	37.4	
12 Q	33.8	35.0	35.9	35.7	36.7	36.4	36.1	35.4	35.9	36.0	35.9	36.5	39.8	40.9	42.8	41.8	40.0	37.8	35.0	33.8	30.0	28.5	29.0	30.0	35.8	
13 Q	32.9	33.9	34.4	33.9	34.3	34.3	34.9	35.3	35.4	35.0	34.4	37.0	40.4	40.8	42.8	41.8	41.2	38.9	34.9	32.9	31.8	30.6	30.9	32.9	35.6	
14 Q	33.4	34.8	34.9	34.9	34.9	34.9	35.0	36.1	37.7	39.3	41.3	38.9	41.8	42.6	42.6	42.7	41.9	42.6	37.3	36.8	34.4	32.9	31.9	32.8	37.4	
15 D	32.9	33.5	34.8	35.9	39.8	36.4	36.5	43.8	38.8	37.4	39.7	40.8	41.3	50.6	58.3	43.6	44.7	40.8	30.4	44.7	42.6	34.0	35.9	42.7	40.0	
16 D	28.0	25.0	54.6	30.9	26.6	22.1	08.2	35.9	43.7	53.1	40.8	28.9	37.8	37.3	04.4	18.0	45.6	52.6	39.3	35.9	38.3	67.3	54.0	32.9	35.9	
17	09.3	28.5	30.4	32.4	32.9	33.9	37.3	33.9	32.9	32.9	34.9	36.9	38.3	38.8	40.8	40.9	39.7	31.0	30.9	31.8	30.9	26.5	27.0	29.0	32.6	
18	31.9	32.9	34.4	38.8	37.8	53.7	33.9	32.0	37.8	33.9	24.0	37.8	40.8	42.6	44.7	46.2	40.3	43.7	36.4	33.9	32.9	30.4	23.0	27.0	35.9	
19 D	30.0	30.9	31.0	45.1	42.6	40.8	28.0	17.2	29.0	24.7	38.7	45.7	47.8	46.7	47.6	44.8	40.4	38.8	36.4	32.9	30.8	35.4	36.4	32.5	36.4	
20	30.0	37.7	34.0	42.7	34.9	36.0	37.8	38.3	41.3	34.9	34.9	37.7	40.8	44.7	48.1	47.7	43.8	41.8	33.9	30.9	26.7	28.0	30.9	34.4	37.2	
21	34.0	34.3	35.8	37.2	37.3	46.7	37.8	25.5	29.5	34.4	34.8	33.9	37.3	41.3	44.7	45.7	44.7	37.8	36.0	32.6	27.4	29.5	30.9	31.4	35.8	
22	32.4	32.9	34.0	55.0	41.4	39.3	40.2	32.9	34.9	34.0	36.3	34.4	42.3	49.1	46.7	45.6	42.7	37.8	33.9	30.0	25.0	26.9	28.0	30.0	36.9	
23	31.9	34.9	34.9	34.9	34.9	34.9	36.0	36.8	30.9	40.8	41.9	41.3	41.4	44.7	43.7	43.7	42.8	39.7	29.0	27.2	27.1	26.9	29.5	30.0	35.8	
24	33.9	34.9	35.9	35.4	35.4	35.8	35.4	37.8	35.9	36.1	37.0	38.3	42.7	43.7	41.5	41.8	43.8	42.6	37.4	31.4	29.5	29.5	30.1	30.8	36.5	
25	31.9	34.4	34.9	34.9	34.5	34.0	37.2	37.7	36.4	36.4	36.7	38.8	47.8	46.7	48.0	47.6	44.8	38.8	35.0	32.9	36.9	29.0	29.0	30.0	37.0	
26	32.0	33.0	34.0	34.0	34.0	34.8	35.9	34.9	37.3	41.8	42.3	41.8	45.7	45.7	44.7	44.7	41.8	38.8	35.0	31.9	28.9	25.0	26.0	28.0	36.3	
27	30.1	30.0	32.9	38.8	44.7	41.8	34.4	-3.0	54.1	29.2	66.4	50.1	48.8	53.6	49.6	47.7	43.7	38.8	37.3	34.9	32.9	33.9	32.4	30.9	38.9	
28	31.0	31.4	34.0	42.7	32.0	33.4	33.9	34.9	35.7	38.8	38.9	40.8	39.9	41.8	40.8	45.7	41.7	34.9	33.9	29.7	29.0	29.6	30.8	32.9	35.8	
29	32.9	33.3	33.9	33.8	37.2	34.2	36.0	34.4	35.8	36.4	36.6	39.8	42.7	47.2	50.1	46.7	45.2	42.7	41.2	38.8	35.9	32.9	30.0	30.0	37.8	
30	30.5	32.9	33.9	34.5	35.3	36.9	35.8	35.9	35.9	35.9	35.4	36.8	40.3	44.5	44.7	43.1	42.3	38.9	36.4	35.9	33.8	31.9	30.9	30.0	36.4	
31	30.4	32.4	33.9	34.4	34.4	34.9	34.9	34.9	34.4	36.8	37.3	41.9	41.8	41.8	45.2	45.7	44.7	41.8	40.3	34.9	28.1	25.5	26.0	27.0	36.0	
Mean	30.9	33.0	35.1	36.3	36.4	37.4	33.6	33.3	36.5	36.6	37.3	37.5	41.3	44.5	43.8	44.5	42.6	39.7	35.1	33.3	31.1	31.4	31.2	31.4	36.4	

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

Table 19 Meanook

$Z = 58,000 \gamma +$

May 1953

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	845	853	853	851	849	847	845	832	826	830	753	803	831	845	842	840	846	841	841	842	845	851	851	853	838
2 Q	859	855	869	865	860	851	843	843	843	842	831	789	831	837	845	843	840	840	836	840	843	850	850	847	844
3 Q	843	848	842	842	842	842	842	842	837	837	840	831	820	831	840	845	842	837	833	842	842	851	853	862	841
4	862	853	863	855	866	867	853	831	793	694	826	845	851	850	842	842	840	838	836	836	836	841	841	842	838
5	842	845	848	876	909	898	887	865	720	765	810	809	798	795	809	830	838	833	842	842	845	853	853	872	837
6 D	905	965	948	898	925	845	837	842	853	876	998	637	792	787	865	865	860	860	865	863	865	889	900	907	869
7	871	906	908	865	865	673	552	644	600	669	731	640	690	784	807	822	837	837	842	833	837	842	862	859	782
8 D	870	920	887	895	808	639	658	647	810	751	648	632	830	826	800	813	804	803	820	828	831	853	853	874	796
9	895	887	845	842	859	804	696	711	725	744	604	675	775	827	827	819	842	841	838	843	843	856	886	886	807
10	853	851	852	849	833	831	821	800	675	607	652	750	800	813	827	833	831	831	842	841	848	842	843	848	807
11	848	857	858	859	866	877	830	754	708	677	829	829	820	808	811	824	832	841	841	841	842	843	842	842	824
12 Q	848	848	848	848	848	831	841	842	838	831	827	832	831	832	833	837	840	839	836	837	838	842	848	849	839
13 Q	845	842	841	842	842	842	843	842	843	830	820	836	841	842	840	833	833	838	838	838	840	840	840	840	839
14 Q	840	842	842	842	842	842	842	840	831	820	822	836	842	839	839	832	831	831	829	829	829	831	838	842	836
15 D	842	837	840	859	910	896	867	773	828	831	828	831	785	604	550	610	755	785	807	832	983	887	976	898	817
16 D	887	886	899	814	708	743	735	570	563	579	540	853	586	695	558	473	753	664	892	886	887	921	787	640	730
17	677	781	731	848	876	867	876	865	866	863	859	855	855	853	850	830	841	845	853	855	872	870	872	898	844
18	909	870	867	848	848	717	754	617	703	630	630	736	787	787	820	845	847	847	856	862	870	887	901	915	806
19 D	908	909	899	923	820	846	824	759	575	717	727	704	785	831	845	850	846	846	851	845	855	898	923	901	829
20	900	887	856	867	863	848	775	733	733	789	814	822	827	851	848	845	843	842	848	852	874	877	885	876	840
21	860	870	885	886	843	845	792	790	741	789	820	800	831	852	842	832	838	845	848	848	859	863	866	866	838
22	859	869	865	876	846	876	872	863	850	831	817	804	785	794	830	831	829	821	830	841	865	876	847	833	842
23	848	853	842	843	842	840	830	775	733	705	781	816	831	837	847	849	847	842	843	832	833	841	840	842	825
24	842	842	842	842	842	842	842	830	833	839	842	837	830	833	833	840	833	829	829	829	833	840	845	849	837
25	845	842	843	843	848	852	865	863	852	851	833	822	794	803	820	827	827	827	820	824	832	842	848	853	836
26	853	847	842	842	842	839	834	828	826	802	790	797	828	834	834	834	834	834	828	827	828	826	827	834	830
27	831	831	839	875	870	694	783	702	836	914	622	648	747	778	762	796	839	842	839	836	831	841	839	837	801
28	834	840	853	872	839	838	845	840	835	834	834	821	790	762	777	792	792	801	805	820	828	835	823	823	822
29	820	821	822	821	820	821	848	854	844	809	773	787	787	753	766	796	809	809	821	821	822	822	829	840	813
30	844	829	837	838	828	828	825	823	823	817	805	789	808	816	817	818	817	813	808	808	816	824	831	820	820
31	834	846	836	825	823	823	825	831	831	825	814	809	814	805	814	813	812	811	825	825	838	848	848	843	826
Mean	852	859	855	856	848	823	812	789	780	781	778	783	801	807	808	812	828	826	837	839	848	854	856	852	824

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20 Meanook

May 1953

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum					
	12,000 $\gamma$ +		$\gamma$	12,000 $\gamma$ +		$\gamma$	24° East +		$\gamma$	24° East +		$\gamma$	58,000 $\gamma$ +		$\gamma$	58,000 $\gamma$ +		$\gamma$			
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$			
1	23	45	920	11	32	834	86	15	15	48.6	10	42	28.0	20.6	23	41	865	10	31	720	145
2 Q	00	50	936	11	05	850	86	15	02	46.3	11	05	27.6	18.7	02	43	887	11	28	765	122
3 Q	01	35	908	20	55	850	58	16	15	46.1	23	07	29.6	16.5	23	40	865	12	20	816	49
4	05	30	913	19	08	677	236	15	31	46.3	09	02	26.9	19.4	05	34	887	09	05	529	358
5	23	11	953	08	12	681	272	09	20	58.7	23	40	18.7	40.0	04	27	932	08	37	608	324
6 D	02	03	1251	11	45	69	1182	11	25	109.6	11	10	-9.9	119.5	10	34	1121	11	10	399	722
7	00	57	1054	11	10	219	835	05	37	91.8	06	25	-18.1	109.9	01	50	937	06	00	296	641
8 D	03	52	1031	06	35	-15	1046	06	42	90.2	06	27	-32.9	123.1	01	31	965	06	47	265	700
9	05	23	1028	09	35	447	581	05	50	89.4	10	45	13.7	75.7	00	56	993	10	30	541	452
10	20	18	952	09	45	607	345	09	32	52.8	08	52	27.1	25.7	20	23	866	09	40	568	298
11	01	10	944	09	10	627	317	08	45	50.6	07	10	19.4	31.2	05	20	896	09	17	619	277
12 Q	05	32	915	18	30	858	57	14	35	46.3	21	25	27.3	19.0	04	45	863	05	43	808	55
13 Q	00	12	915	19	38	858	57	14	50	45.2	21	07	30.3	14.9	00	15	853	10	27	810	43
14 Q	08	25	909	21	00	866	43	17	00	45.2	22	00	30.4	14.8	23	11	853	09	19	809	44
15 D	23	55	1261	13	55	414	847	13	40	82.8	22	05	16.4	66.4	20	25	1045	13	54	477	568
16 D	23	40	1503	11	00	-882	2385								10	50	1666	10	40	65	1601
17	00	05	1389	15	26	796	593	02	45	69.0	00	01	12.7	56.3	04	07	932	02	15	608	324
18	05	00	1002	09	57	422	580	05	05	75.7	07	55	07.7	68.0	22	49	954	09	51	502	452
19 D	03	25	1151	10	17	-125	1276	10	05	106.4	07	50	-15.6	122.0	10	11	1054	07	38	473	581
20	00	47	1061	08	15	429	632	08	40	77.6	08	06	17.3	60.3	00	57	971	08	17	555	416
21	01	07	953	08	01	745	208	05	40	62.8	07	38	13.5	49.3	02	55	907	08	32	708	199
22	23	30	952	17	21	821	131	03	40	68.8	20	00	20.3	48.5	03	35	917	13	18	765	152
23	00	15	932	09	21	788	144	09	50	49.0	18	50	26.0	23.0	01	12	865	09	16	653	212
24	07	06	922	17	56	825	97	16	05	47.1	21	32	27.1	20.0	07	10	856	07	30	810	46
25	06	00	914	16	52	861	53	15	05	50.0	21	01	27.4	22.6	06	54	876	12	40	781	95
26	23	20	952	18	18	847	105	13	25	48.2	22	30	24.1	24.1	00	08	859	09	55	782	77
27	04	09	1028	09	38	20	1008	07	30	124.5	07	20	-40.2	164.7	09	36	1103	07	39	323	780
28	02	57	943	13	05	827	116	03	15	55.2	20	15	26.7	28.5	03	05	912	13	27	745	167
29	07	36	915	12	55	826	89								06	40	865	14	03	732	133
30	00	30	926	00	56	859	67	14	02	48.6	00	35	29.1	19.5	00	35	856	20	35	774	82
31	01	31	926	20	23	850	76	15	32	52.0	21	30	23.8	28.2	01	32	855	10	50	793	62
Mean			1012			573	439			65.0			15.0	50.0			944			616	328
No. days			31			31	31			29			29	29			31			31	31

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

Table 21 Meanook

H = 12,000  $\gamma$  +

June 1953

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	903	904	905	889	881	890	888	869	872	887	891	900	899	898	900	889	871	861	854	869	877	861	869	893	884	
2 D	901	940	983	1033	980	995	988	679	853	619	602	585	837	573	638	959	910	915	873	883	877	887	920	958	850	
3 D	992	946	916	976	897	912	769	648	848	853	819	857	869	721	793	885	873	854	861	873	862	894	894	925	864	
4 D	905	970	928	955	881	850	748	852	861	771	697	772	846	897	900	901	885	873	862	887	889	886	889	905	867	
5	905	892	915	892	928	889	847	704	881	820	843	897	897	897	897	894	870	877	866	846	870	884	897	901	875	
6	920	879	920	921	933	828	789	881	854	865	866	783	885	878	877	880	876	877	865	876	877	879	892	897	875	
7	901	912	908	897	895	895	905	854	807	840	869	908	905	901	894	884	871	858	861	869	884	889	886	901	883	
8	912	897	894	884	886	885	886	882	889	897	901	901	897	897	898	884	875	862	849	854	861	877	879	882	884	
9	897	902	898	886	889	888	886	886	890	883	873	882	898	906	913	908	888	869	851	865	888	892	894	892	888	
10	895	896	900	894	907	909	917	717	749	869	900	901	908	908	898	900	883	869	873	864	871	867	887	885	878	
11	886	910	907	890	893	887	883	822	889	891	870	832	885	901	894	877	869	862	858	876	881	882	873	865	878	
12	887	887	892	881	889	897	901	897	897	893	900	901	908	916	905	896	873	855	881	869	893	912	869	885	891	
13	919	924	931	916	885	869	866	857	819	810	831	869	838	853	881	878	869	854	838	861	863	872	894	898	871	
14	944	930	905	887	884	886	885	760	873	892	890	897	881	870	871	871	873	876	873	873	873	878	873	884	880	
15	893	897	897	900	890	892	888	892	891	893	897	894	886	879	881	878	872	873	881	882	891	873	876	877	886	
16 Q	886	894	901	900	894	893	897	894	889	892	890	894	901	901	893	884	870	869	862	862	862	871	886	901	887	
17	936	904	909	908	905	900	901	879	854	904	912	900	885	873	883	878	890	885	884	879	876	865	885	905	892	
18	912	912	925	886	897	897	881	885	893	897	890	890	893	883	891	887	878	879	862	859	867	861	889	890	888	
19 Q	898	901	905	901	897	897	900	894	900	901	894	886	894	900	905	898	889	871	867	875	872	882	887	900	892	
20	900	890	894	904	907	905	904	916	916	916	912	838	866	842	775	873	893	877	862	861	890	922	905	933	887	
21	892	879	890	895	912	920	889	883	891	799	887	884	881	908	905	894	870	865	853	865	889	867	875	882	882	
22	885	911	893	894	900	889	896	823	787	842	885	851	846	857	887	900	897	877	881	881	877	895	884	887	876	
23 Q	904	909	897	892	889	889	892	889	889	888	886	886	888	886	887	889	877	879	865	865	881	881	869	882	886	
24	897	893	915	917	905	897	901	885	890	896	892	890	886	886	886	881	884	881	873	864	881	897	893	888	891	
25	911	908	909	905	908	899	897	897	891	879	879	881	889	887	877	884	889	883	865	862	873	875	880	889	888	
26 Q	895	890	890	889	889	890	893	893	893	893	895	901	905	906	899	887	873	865	870	873	879	879	881	895	888	
27 Q	894	894	890	889	893	897	893	892	885	892	892	890	881	885	897	894	879	860	843	850	865	880	905	905	885	
28	909	898	898	893	897	897	897	901	901	897	901	901	901	898	896	894	888	874	846	847	860	859	881	909	889	
29 D	912	925	923	908	909	906	909	922	901	736	497	752	901	861	724	873	861	889	875	877	910	878	894	892	860	
30 D	1005	1110	1002	936	901	753	599	564	384	541	717	704	858	838	861	831	838	861	890	873	894	884	912	907	819	
31																										
Mean	910	913	911	907	901	890	874	840	854	848	849	857	884	870	870	888	878	872	865	868	878	881	887	897	879	



**DECLINATION**  
**Mean values for periods of sixty minutes; Universal Time**

Table 22 Meanook

D = 24° E + ...'

June 1953

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	27.2	29.2	29.1	29.1	35.0	35.0	34.9	33.0	40.9	38.9	36.5	37.8	40.9	42.8	43.8	44.8	46.8	44.8	39.4	36.0	33.4	32.1	29.6	29.1	36.2	
2 D	29.1	28.1	25.6	30.5	29.1	27.2	56.7	32.9	36.8	40.6	46.8	42.4	43.3	63.5	55.9	44.3	46.9	42.7	42.3	33.0	29.1	28.6	28.6	30.1	38.1	
3 D	39.9	40.9	44.7	43.3	39.9	36.8	36.5	35.0	36.8	44.2	34.9	39.4	40.4	37.0	39.9	48.0	46.9	41.9	40.4	35.0	27.1	29.6	31.0	31.1	38.4	
4 D	33.0	39.9	41.9	42.0	35.5	36.0	34.5	36.8	39.4	35.9	32.0	52.7	42.9	45.8	45.8	45.0	43.9	41.4	34.6	34.2	32.6	31.0	31.0	31.3	38.3	
5	33.0	34.0	35.9	38.9	45.8	36.0	38.9	33.0	38.8	38.4	35.4	38.8	40.9	42.8	42.8	44.8	43.3	41.0	40.9	34.1	31.0	29.1	28.1	30.5	37.3	
6	31.5	31.0	31.1	45.8	44.9	32.1	31.5	34.9	35.5	34.0	32.1	33.0	41.4	41.0	42.7	42.8	42.8	47.5	35.0	38.8	30.1	28.6	31.0	32.0	36.3	
7	34.0	34.1	42.8	36.0	34.0	34.0	40.9	36.8	43.5	42.8	42.8	40.9	43.2	43.8	44.8	42.8	42.0	37.8	35.0	30.9	39.0	30.1	31.0	32.0	38.1	
8	33.9	36.0	34.9	36.8	37.9	33.0	34.0	36.8	38.9	32.0	35.9	38.9	41.9	44.3	45.3	44.3	42.8	39.9	35.4	32.0	30.1	30.0	29.8	32.0	36.5	
9	33.2	34.0	34.5	34.5	34.0	34.1	36.0	43.8	36.9	36.9	33.0	38.4	39.8	39.8	43.8	46.8	47.0	44.8	42.8	39.9	36.7	33.1	32.0	31.0	31.4	37.4
10	32.5	32.9	34.0	34.5	41.4	50.7	43.8	26.2	34.9	37.0	39.9	39.4	41.9	44.3	48.8	48.6	46.7	42.8	39.4	36.0	32.0	29.6	27.0	26.1	37.9	
11	28.6	29.6	35.5	35.4	34.1	33.9	34.0	26.1	35.5	35.5	30.2	32.9	41.6	45.0	47.7	45.8	43.8	40.9	34.9	32.5	32.5	31.0	31.0	30.1	35.3	
12	30.1	31.5	33.0	33.1	33.0	33.9	35.0	35.0	36.0	35.5	37.8	38.8	42.7	42.8	46.3	44.8	50.1	47.9	32.1	29.6	34.0	32.0	27.0	27.0	36.2	
13	26.2	35.0	33.0	36.8	34.0	34.0	35.1	35.4	29.1	35.0	38.4	36.5	36.0	38.9	44.8	44.8	45.3	42.0	38.4	29.6	26.6	25.6	26.8	28.6	34.8	
14	30.5	36.1	31.9	32.0	36.9	32.0	36.0	32.0	34.5	34.5	36.0	37.8	39.9	40.4	43.8	45.7	45.3	37.9	34.5	33.1	33.1	31.9	31.1	31.0	35.8	
15	31.1	32.0	33.0	34.0	37.0	36.0	36.0	36.0	36.0	36.1	37.8	37.9	39.9	40.8	41.4	41.0	39.9	38.9	35.9	32.0	32.0	30.2	29.1	31.0	35.6	
16 Q	32.0	32.0	33.4	34.0	34.4	35.4	35.1	36.0	36.1	40.0	37.9	38.3	40.4	41.9	44.3	45.3	44.8	42.4	36.4	33.1	31.0	27.6	27.0	28.1	36.1	
17	28.0	30.1	31.0	33.0	34.0	34.0	35.0	35.0	37.9	40.9	37.9	39.9	39.3	42.9	48.3	47.7	46.3	40.9	36.0	32.0	32.0	31.6	29.1	29.1	36.3	
18	29.1	30.0	30.1	34.1	32.9	34.1	31.0	33.0	35.9	35.0	35.0	36.9	39.9	42.4	43.6	46.1	44.8	42.0	38.5	32.9	31.0	28.1	26.1	27.1	35.0	
19 Q	29.1	31.0	34.9	34.0	33.5	33.9	34.0	41.7	37.8	35.9	35.9	35.9	37.9	39.9	42.8	43.8	43.3	40.4	36.1	33.0	29.6	29.2	30.1	30.9	35.6	
20	31.0	33.0	33.0	33.1	33.1	40.0	35.0	34.4	33.5	35.0	36.0	31.7	42.4	44.8	38.9	43.8	44.8	45.2	45.8	35.5	28.0	29.1	26.2	23.6	35.7	
21	26.6	29.1	30.1	32.9	33.0	35.0	22.3	40.3	35.0	28.8	37.5	39.9	39.9	41.9	43.8	44.3	45.4	39.4	40.0	33.9	31.6	32.0	29.6	29.1	35.1	
22	30.5	32.1	34.4	33.9	35.8	37.0	36.8	34.1	33.0	35.5	35.5	36.0	37.9	41.0	42.8	40.4	43.7	41.9	36.9	36.8	34.0	31.0	29.6	31.0	35.9	
23 Q	32.1	35.5	35.0	34.0	32.0	33.0	33.0	34.2	32.7	34.0	36.8	38.4	41.0	42.8	43.3	43.3	42.8	42.7	37.9	33.9	30.8	28.5	27.0	29.1	35.6	
24	30.9	31.7	33.0	34.0	34.0	32.7	33.0	31.0	35.4	35.0	35.0	38.8	41.3	43.7	44.8	43.8	45.5	45.8	42.7	31.9	27.5	28.0	28.2	28.6	35.7	
25	29.1	32.7	32.9	32.0	32.5	32.0	32.7	33.0	36.2	34.0	36.4	36.9	37.0	37.9	40.9	40.9	39.0	37.4	35.0	33.0	32.9	30.5	30.0	31.0	34.4	
26 Q	31.8	33.5	35.0	35.9	35.9	36.0	36.9	36.5	36.5	36.7	36.9	37.5	38.9	40.9	42.3	43.8	43.8	43.3	40.0	35.5	31.9	30.0	29.1	30.0	36.6	
27 Q	30.5	32.9	35.0	35.0	35.0	34.5	34.1	35.0	33.9	33.8	34.9	36.5	40.0	43.8	46.8	46.3	44.7	47.3	40.0	34.5	30.1	27.1	28.0	29.1	36.2	
28	31.4	33.4	34.5	36.0	36.1	35.0	34.9	34.5	34.0	35.5	36.0	37.9	39.9	41.0	42.4	42.3	42.8	42.0	39.9	38.4	34.0	30.1	28.1	28.1	36.2	
29 D	29.1	28.6	28.6	30.1	31.0	31.0	34.0	34.0	34.0	27.1	65.5	59.3	49.7	38.9	50.8	47.8	55.8	44.8	35.8	31.0	35.0	31.0	25.6	27.5	37.8	
30 D	31.4	38.8	36.4	40.0	40.4	46.7	29.6	34.0	32.0	45.3	45.8	35.0	31.9	37.9	44.9	46.8	46.8	41.9	37.0	34.9	33.0	34.0	32.0	32.0	37.8	
31																										
Mean	30.9	33.0	33.9	35.2	35.5	35.2	35.4	34.7	35.9	36.3	37.8	38.8	40.5	42.6	44.7	44.7	44.9	42.3	37.9	33.8	31.6	30.0	29.0	29.6	36.4	

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

Table 23 Meanook

Z = 58,000  $\gamma$  +

June 1953

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	843	849	856	865	839	828	825	755	790	800	811	820	817	813	813	811	811	811	807	813	822	825	822	822	819	
2 D	820	830	873	938	898	875	811	701	897	953	1082	1054	860	748	820	848	831	826	821	835	850	859	863	866	865	
3 D	917	865	880	875	727	814	672	460	774	760	750	784	801	705	716	825	828	823	824	838	828	834	828	837	790	
4 D	830	880	868	811	734	715	858	770	761	647	580	608	696	781	819	820	812	820	813	815	814	817	814	809	779	
5	821	822	834	847	814	774	702	681	728	704	698	781	793	801	803	803	801	797	803	817	835	828	801	801	787	
6	814	815	832	837	825	736	663	750	736	732	758	701	780	787	797	804	808	808	804	816	815	803	807	806	785	
7	804	819	840	804	807	809	775	672	579	672	751	800	806	800	801	795	796	795	795	792	794	801	804	805	780	
8	801	816	809	810	797	788	793	780	750	739	781	792	792	788	789	781	785	785	781	781	787	799	798	798	788	
9	800	800	800	796	797	800	797	740	745	756	742	733	776	790	789	789	786	780	775	776	780	784	785	788	779	
10	787	795	797	798	826	811	793	663	574	730	772	786	791	792	787	784	784	781	777	775	784	791	797	796	774	
11	793	794	813	813	815	808	774	658	749	760	733	684	743	755	770	776	774	771	772	772	779	784	793	797	770	
12	792	781	777	777	777	777	772	771	771	770	770	770	770	770	770	770	770	770	759	770	783	847	811	795	779	
13	797	828	847	828	800	755	724	709	632	589	666	721	701	722	755	760	755	745	755	778	769	766	776	784	748	
14	800	818	803	806	771	777	757	652	719	762	763	770	770	757	758	758	759	757	752	762	766	775	782	786	766	
15	783	781	774	777	780	772	771	770	770	770	768	768	762	759	763	768	759	758	759	759	767	771	771	771	769	
16 Q	771	771	771	771	771	771	771	771	763	757	757	761	767	771	772	763	760	760	763	761	761	761	762	772	772	766
17	784	782	782	782	783	784	774	728	666	748	768	768	760	736	744	749	750	750	755	752	761	768	786	808	761	
18	806	807	827	807	788	788	749	711	736	765	770	772	771	763	768	768	768	767	761	761	761	761	772	778	772	
19 Q	781	781	786	783	774	772	773	773	778	774	768	761	772	778	772	771	771	771	768	768	768	764	770	779	773	
20	784	784	781	782	783	784	778	772	772	772	765	770	767	792	655	712	745	754	758	758	782	811	851	828	772	
21	782	781	784	796	808	822	653	751	761	610	706	749	761	793	794	791	784	778	774	790	793	804	793	781	768	
22	773	784	774	782	794	800	790	726	672	690	751	721	707	716	761	779	773	771	772	772	778	784	788	792	760	
23 Q	794	808	797	794	784	783	781	781	779	772	773	773	776	774	770	767	762	761	761	761	772	784	786	786	778	
24	782	772	782	800	811	801	791	769	765	771	771	773	777	778	778	770	768	762	767	759	761	774	777	778	776	
25	794	800	797	794	799	794	783	783	786	772	750	761	772	773	772	769	767	768	772	762	769	769	768	772	777	
26 Q	767	772	772	772	772	772	772	772	772	772	772	772	772	772	772	772	772	772	754	761	768	772	772	781	771	
27 Q	794	794	787	781	778	779	781	778	772	763	763	770	767	767	767	772	772	768	762	762	761	771	781	790	774	
28	792	793	789	794	790	783	772	768	768	761	739	751	763	768	772	772	772	761	752	751	759	767	769	771	770	
29 D	777	778	773	778	778	777	772	772	767	772	516	656	697	721	552	700	728	774	761	768	781	800	817	794	742	
30 D	859	893	828	815	789	649	728	549	579	460	661	682	728	728	759	759	750	752	768	777	789	794	808	806	738	
31																										
Mean	801	806	808	807	794	783	765	725	737	737	748	760	767	767	765	777	777	777	775	779	785	792	795	796	776	



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24 Meanook

June 1953

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,000 $\gamma$ +		58,000 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1	02 40	881	07 17	838	43	16 35	48.4	07 17	23.6	24.8	03 24	868	07 18	700	168
2 D	06 27	1153	10 29	440	713	10 17	120.0	10 50	08.9	111.1	10 24	1300	07 07	596	704
3 D	03 28	1099	07 10	-220	1319	04 10	78.6	07 07	-53.7	132.3	00 23	970	07 16	100	870
4 D	03 30	1172	06 42	470	702	03 32	85.0	05 20	06.8	78.2	06 45	1057	10 00	517	540
5	04 27	969	07 15	404	565	04 45	60.5	07 15	-23.6	84.1	03 30	887	07 00	354	533
6	05 02	1007	05 15	692	315	03 35	56.3	05 15	-6.1	62.4	03 20	925	06 07	547	378
7	01 24	930	08 13	755	175	09 50	53.0	07 55	26.3	26.7	02 44	861	08 33	528	333
8	00 24	927	18 59	836	91	14 10	48.7	20 22	28.6	20.1	02 26	824	09 15	725	99
9	14 30	923	18 30	842	81	07 22	53.7	21 46	29.6	24.1	06 15	811	07 34	706	105
10	06 13	960	08 03	453	507	08 07	59.1	07 58	00.8	58.3	04 48	871	08 08	420	451
11	01 30	928	07 31	779	149	14 25	50.0	07 30	15.8	34.2	04 48	830	07 26	581	249
12	21 12	944	18 20	807	137	16 50	58.4	22 37	24.4	34.0	21 40	870	18 34	750	120
13	03 18	965	09 26	741	224	14 55	50.3	20 12	24.6	25.7	02 37	872	09 14	547	325
14	00 13	974	07 22	685	289	15 20	49.6	07 12	08.6	41.0	01 12	853	07 14	586	267
15	01 14	905	17 06	857	48	04 12	43.3	21 58	28.5	14.8	04 10	792	17 08	746	46
16 Q	13 01	912	20 10	857	55	15 58	48.1	22 02	26.0	22.1	02 35	776	09 05	745	31
17	00 41	976	08 10	812	164	16 05	51.2	00 42	26.5	24.7	23 16	817	08 25	627	190
18	02 00	944	21 10	850	94	16 00	48.0	22 50	24.6	23.4	02 50	838	07 01	695	143
19 Q	14 08	919	18 44	864	55	07 37	47.0	00 01	28.4	08.6	02 45	793	11 35	761	32
20	23 12	1006	14 05	739	267	18 30	49.7	23 05	21.6	28.1	23 10	868	11 56	571	297
21	06 11	975	09 17	697	278	06 02	66.0	09 15	16.7	49.3	04 58	859	09 15	558	301
22	01 15	936	18 29	701	235	13 47	46.2	07 32	26.6	19.6	23 03	804	08 25	613	191
23 Q	01 00	935	18 50	858	77	16 11	45.4	22 10	26.3	19.1	01 35	816	19 30	763	53
24	02 16	942	19 00	850	92	17 10	49.1	20 07	26.3	22.8	04 29	817	20 10	751	66
25	00 37	948	19 24	856	92	15 00	43.3	00 32	27.2	16.1	04 37	806	10 34	750	56
26 Q	12 48	912	17 56	859	53	15 55	45.6	22 15	28.4	17.2	23 50	791	18 07	759	32
27 Q	22 40	920	18 30	842	78	17 30	50.1	21 40	24.7	25.4	00 51	851	20 58	761	90
28	00 08	920	19 12	842	78	16 12	49.2	22 22	27.2	22.0	03 41	804	10 30	729	75
29 D	21 13	975	09 36	-149	1124	09 35	129.5	09 47	03.3	126.2	09 25	914	10 45	400	514
30 D	01 30	1302				08 50	99.1	09 17	-4.9	104.0	00 56	971	09 35	348	623
31															
Mean		964		685	279		59.0		15.7	43.3		871		608	263
No. days		30		29	29		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 1953

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	920	948	952	937	908	865	879	869	427	560	466	192	728	933	928	925	908	883	862	868	872	886	916	926	815	
2 D	922	948	956	939	901	851	853	823	823	789	803	827	883	889	858	898	892	874	873	869	867	889	890	917	876	
3	864	916	934	894	901	888	869	858	703	677	848	728	846	854	861	862	886	889	873	866	880	871	887	931	858	
4	920	918	919	919	897	917	870	803	819	803	822	545	847	917	908	901	879	873	881	904	889	872	883	886	866	
5	897	905	897	892	908	898	808	791	803	795	803	775	862	905	901	899	894	886	888	888	889	893	892	915	870	
6	953	966	903	901	890	889	881	814	854	858	889	901	901	891	893	887	879	876	886	876	876	897	889	890	889	
7	886	919	952	1028	1112	1097	1048	940	931	899	877	876	870	879	856	861	877	879	872	859	865	872	883	922	919	
8	944	897	888	906	905	888	867	828	801	842	850	849	900	894	889	874	855	865	858	858	858	865	871	905	873	
9	890	875	889	893	883	883	886	889	889	894	889	891	887	871	901	901	890	862	842	826	842	849	867	889	878	
10	906	927	890	879	877	906	889	850	867	883	883	883	883	883	877	877	878	866	857	858	866	866	865	871	879	
11 Q	890	904	905	905	905	896	892	885	887	892	890	881	901	901	900	888	877	879	881	877	877	870	865	881	889	
12	885	890	909	905	893	890	890	889	889	889	889	890	897	897	897	885	881	873	867	868	878	871	858	925	888	
13	914	901	873	885	898	911	879	779	768	565	670	811	837	837	823	869	862	870	873	881	881	862	860	881	841	
14	897	903	891	878	877	879	889	894	898	901	901	908	909	909	909	901	894	886	883	876	876	877	889	905	893	
15	920	928	916	914	961	881	905	867	573	818	884	883	811	818	877	893	886	877	865	889	889	890	886	878	871	
16 Q	887	901	894	878	890	888	887	887	883	886	885	886	890	890	891	884	877	878	879	879	875	875	882	897	885	
17 Q	890	887	893	892	893	894	894	877	847	867	883	892	900	907	909	896	879	874	859	865	867	873	887	890	884	
18 Q	912	901	905	887	892	885	894	901	896	890	898	892	901	890	913	905	895	887	881	878	881	883	886	899	894	
19	902	897	892	894	894	901	891	894	901	899	898	898	901	902	902	898	886	878	871	876	871	874	873	878	890	
20	901	909	928	901	909	895	899	900	900	897	892	846	870	889	894	892	884	877	869	867	859	873	885	894	889	
21 Q	905	901	889	883	887	886	887	878	806	760	838	873	886	886	893	893	886	880	877	879	883	886	877	896	876	
22	889	894	894	894	890	890	889	891	878	859	850	878	897	901	905	894	878	858	867	881	886	889	905	930	887	
23 D	967	1006	1025	1049	975	930	853	898	612	533	415	800	807	536	658	681	807	839	838	886	871	901	952	975	826	
24	955	865	869	865	875	875	878	882	892	898	884	654	889	907	912	889	869	854	850	851	853	853	854	856	868	
25	855	854	855	855	855	851	855	854	854	854	854	854	854	854	852	855	858	858	865	868	870	878	883	909	860	
26	945	930	998	1011	947	905	796	718	462	541	529	662	781	814	761	893	901	901	876	890	905	881	917	948	830	
27 D	940	957	922	1068	991	952	717	443	404	745	450	247	731	932	886	830	850	871	847	887	901	883	893	907	802	
28	924	936	909	969	946	811	744	768	278	793	650	503	752	908	921	917	900	869	873	854	873	873	897	912	824	
29 D	930	937	941	948	941	750	611	781	612	604	494	800	756	818	854	767	867	876	851	884	886	894	906	937	818	
30	924	909	901	937	907	909	884	717	418	596	649	654	789	894	897	906	885	861	861	870	879	894	922	921	833	
31	917	910	952	917	897	897	881	873	881	713	666	826	830	724	826	892	892	890	881	881	888	899	897	896	864	
Mean	911	914	914	920	913	892	863	837	757	787	777	774	851	869	876	878	879	874	868	873	876	879	888	905	866	

**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 26 Meanook

D = 24° E + ...'

July 1953

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	34.1	33.1	43.4	30.6	41.5	39.0	51.8	40.1	22.2	32.1	42.6	30.2	37.0	47.0	48.9	49.8	49.3	45.0	40.4	39.0	35.1	29.7	30.2	27.1	38.3	
2 D	29.1	31.1	55.9	43.0	35.6	42.7	41.0	44.0	40.6	37.1	24.3	31.2	45.9	41.9	39.4	46.9	45.9	44.4	43.4	38.0	30.8	32.0	34.0	34.1	38.8	
3	31.7	32.6	42.1	34.1	39.5	38.0	40.0	39.5	35.1	27.2	31.1	25.2	41.5	41.1	41.1	44.8	44.5	44.3	42.0	37.2	35.1	31.1	31.6	32.6	36.8	
4	35.1	36.6	35.9	38.0	46.9	48.9	38.5	43.8	33.1	28.2	35.9	30.6	39.0	45.0	46.4	45.9	45.8	38.0	34.0	31.1	32.7	32.6	35.1	34.1	38.0	
5	34.1	35.9	40.0	43.8	40.0	44.5	36.1	54.8	46.7	34.1	35.2	32.1	36.1	45.0	46.9	45.9	44.9	41.0	37.0	35.5	32.1	31.1	30.0	30.5	38.9	
6	32.1	41.6	33.1	35.1	36.0	36.1	36.9	35.1	39.5	33.5	34.2	37.9	41.0	42.9	44.0	45.1	45.4	41.1	37.1	34.2	32.5	33.1	31.6	32.0	37.1	
7	31.4	31.7	28.7	38.0	26.7	31.1	35.1	36.2	35.1	35.6	39.6	42.9	43.9	45.8	47.8	47.0	47.9	46.9	40.5	33.0	30.6	30.1	30.3	31.1	37.0	
8	32.1	34.4	34.6	33.6	35.1	39.0	38.6	45.4	39.0	39.5	36.7	34.6	37.5	42.9	46.7	47.9	44.4	38.5	33.0	28.2	26.2	27.7	30.6	36.4		
9	31.6	34.2	38.0	34.2	35.1	35.1	34.1	33.6	35.1	36.1	37.0	39.8	42.0	42.9	49.3	49.0	48.4	42.9	40.5	36.6	28.2	23.8	19.3	22.3	36.2	
10	25.2	31.6	31.1	34.1	35.2	36.1	42.4	38.0	40.0	34.2	35.1	36.6	39.0	41.9	43.5	42.9	43.4	41.5	38.5	33.6	30.5	29.3	29.7	31.6	36.0	
11 Q	33.9	34.1	34.5	33.6	32.1	33.6	34.1	35.1	36.0	37.6	35.6	35.1	41.0	42.0	43.0	44.9	44.9	42.9	39.5	36.3	33.6	31.0	30.3	30.8	36.5	
12	31.2	32.1	32.0	31.8	33.0	32.9	33.1	34.1	34.1	36.1	37.6	39.0	40.0	43.4	44.2	45.9	39.0	42.9	42.0	33.5	37.0	32.1	24.9	29.1	35.9	
13	31.2	31.2	33.2	33.1	32.1	35.1	56.7	37.0	38.1	31.2	45.6	50.3	43.9	47.8	51.8	50.8	39.0	50.9	36.1	35.1	32.1	29.7	55.8	32.2	40.0	
14	32.8	34.1	35.2	34.2	34.2	34.2	34.1	35.1	35.1	36.2	36.1	37.1	40.0	41.9	43.3	48.2	45.9	49.9	38.1	36.6	29.2	29.7	29.7	29.8	36.7	
15	31.1	29.2	32.1	33.1	43.8	52.8	39.0	30.2	19.8	44.0	43.4	42.5	39.5	40.5	44.9	47.9	45.1	43.9	37.9	35.6	32.6	31.1	30.4	31.2	37.6	
16 Q	33.2	35.6	38.1	42.4	36.5	35.9	36.1	37.9	36.2	37.9	36.6	38.0	40.5	42.0	42.9	43.4	42.9	42.0	39.5	36.8	33.6	31.1	31.1	33.1	37.6	
17 Q	35.1	36.1	36.1	35.6	35.2	35.1	35.1	44.4	45.4	42.9	38.0	39.1	42.5	44.9	45.9	46.4	45.9	44.8	37.0	31.1	28.1	28.1	28.1	29.3	37.9	
18 Q	32.1	34.1	34.1	33.0	33.8	35.1	35.1	35.1	37.0	36.1	37.1	35.6	31.1	31.1	34.0	45.8	44.8	42.9	37.1	33.6	31.6	31.3	32.2	33.6	35.3	
19	33.1	31.9	32.9	31.1	32.1	35.1	36.9	39.0	37.1	38.0	38.5	38.9	40.5	41.1	42.0	43.3	43.0	41.5	36.1	33.6	28.2	29.2	29.3	30.2	35.9	
20	30.8	30.6	32.5	31.6	31.1	31.1	32.2	36.6	34.2	35.6	38.1	34.8	40.0	44.9	47.0	57.2	45.4	42.5	38.5	34.6	32.1	31.2	31.0	31.1	36.4	
21 Q	32.6	34.1	33.6	34.6	36.1	39.0	36.6	34.1	32.1	31.1	42.0	43.9	42.9	43.4	43.9	41.1	39.0	38.1	34.1	30.8	29.9	31.0	32.5	34.0	36.3	
22	34.2	34.1	34.6	35.2	35.2	34.6	35.1	35.1	42.0	40.9	45.0	42.0	43.9	45.0	45.9	44.6	43.4	42.0	37.0	35.6	33.9	31.1	30.1	29.7	37.9	
23 D	28.2	24.7	26.2	42.0	33.6	33.7	33.6	36.1	32.1	39.5	60.7	61.6	48.2	65.1	63.6	56.8	35.1	38.1	32.1	30.6	18.3	24.3	25.2	28.3	38.2	
24	28.6	29.2	22.8	34.1	34.6	35.1	36.6	37.0	37.0	36.0	36.1	32.0	39.0	48.0	47.9	42.1	45.9	40.5	38.2	33.9	31.1	28.9	29.8	31.1	35.6	
25	35.0	36.0	36.7	36.7	36.7	36.4	38.4	38.4	34.7	35.4	38.4	36.6	40.5	42.6	44.6	44.4	44.6	40.3	34.3	31.1	22.8	24.3	26.7	29.6	36.0	
26	32.1	31.6	29.2	38.5	39.7	38.0	41.9	35.1	25.2	28.2	33.6	41.0	43.0	44.9	45.9	48.1	44.9	41.1	37.5	33.8	34.2	33.1	24.3	28.1	36.4	
27 D	28.3	39.0	33.0	63.7	41.5	33.6	46.9	41.0	59.7	27.1	28.7	41.0	37.1	44.0	46.9	44.8	42.1	41.9	38.0	35.2	33.2	29.7	31.1	33.0	39.2	
28	34.2	39.0	43.1	41.0	42.8	46.3	33.2	45.4	37.9	47.9	41.7	38.5	32.1	42.9	49.8	49.0	47.1	41.0	37.0	34.2	30.1	29.2	29.2	31.1	39.3	
29 D	33.2	46.9	34.5	56.7	40.0	44.4	52.8	40.1	44.9	44.9	29.3	44.1	39.0	39.0	42.1	37.1	42.9	38.0	33.1	30.0	29.2	31.1	33.1	32.1	39.1	
30	46.3	34.1	32.1	40.5	44.9	39.4	61.6	43.8	16.4	38.0	20.8	31.1	25.6	40.0	45.6	48.0	45.0	37.5	34.1	30.2	30.3	33.0	33.6	34.1	36.9	
31	34.2	35.6	49.8	42.9	36.0	35.6	42.9	33.1	37.9	30.3	39.0	41.5	46.9	33.2	35.6	43.0	45.9	42.8	38.0	34.2	31.1	31.4	31.3	34.6	37.8	
Mean	32.5	34.1	35.4	37.7	36.7	37.7	39.6	38.5	36.1	35.9	37.2	38.2	40.0	43.4	45.3	46.4	44.2	42.2	37.5	34.0	30.9	30.0	30.6	31.0	37.3	

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

Table 27 Meanook

Z = 58,000  $\gamma$  +

July 1953

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	823	818	836	761	792	730	693	736	439	352	516	399	556	748	783	781	770	762	761	771	773	783	794	792	707	
2 D	794	808	830	808	800	644	594	672	705	684	633	661	716	748	742	761	761	772	783	789	792	803	817	815	747	
3	822	822	803	792	807	796	728	683	627	547	661	605	661	712	749	750	750	762	773	773	788	794	784	792	741	
4	817	828	822	744	702	752	728	593	662	655	672	472	694	763	762	772	779	759	762	767	772	772	784	791	734	
5	794	797	797	781	786	765	549	567	649	594	627	683	693	755	763	778	781	773	774	772	773	784	794	811	735	
6	859	841	807	811	802	783	773	649	690	682	719	772	778	772	772	768	768	768	761	762	772	779	783	792	769	
7	794	794	838	860	884	806	789	806	794	794	783	783	778	778	762	759	759	763	758	758	758	761	778	806	789	
8	868	822	783	803	778	781	761	662	639	706	729	738	774	770	765	755	749	744	752	759	769	792	797	796	762	
9	783	783	794	774	770	761	761	761	741	738	759	761	755	728	743	752	752	744	744	752	761	773	793	807	762	
10	811	818	797	783	782	803	782	744	707	751	761	762	762	762	750	748	752	752	750	745	745	750	755	761	764	
11 Q	770	778	778	794	800	728	768	758	752	750	739	703	740	754	754	753	750	744	750	744	741	744	749	759	754	
12	752	752	761	763	762	761	755	755	750	750	750	749	749	749	749	749	751	750	751	751	751	794	781	792	757	
13	786	796	779	769	761	789	722	658	649	677	594	672	711	732	716	734	741	739	741	741	755	749	750	748	730	
14	751	762	768	765	757	750	749	751	749	751	758	759	761	761	761	755	750	747	733	728	732	744	744	760	752	
15	767	793	816	807	800	734	751	728	478	621	712	728	687	638	705	728	750	734	749	759	767	762	763	757	731	
16 Q	761	768	770	784	772	769	768	748	744	750	758	761	762	762	762	762	761	761	761	762	768	768	772	778	764	
17 Q	772	772	771	772	772	772	772	714	674	704	747	757	772	772	772	761	755	752	762	761	760	761	765	770	757	
18 Q	781	791	801	800	784	773	768	772	762	739	735	747	761	751	761	768	762	761	754	752	759	759	767	772	766	
19	783	783	784	786	789	771	738	759	762	762	761	767	767	767	763	760	758	752	755	755	757	767	771	765		
20	783	794	817	804	810	751	773	782	772	768	755	704	719	741	760	759	761	760	768	768	768	764	767	765	767	
21 Q	779	783	778	780	780	774	768	741	663	571	677	716	749	755	758	761	767	768	767	771	774	783	789	793	752	
22	783	774	773	772	771	768	765	762	728	711	705	736	762	784	772	763	760	757	752	755	761	762	773	807	761	
23 D	861	917	895	818	851	818	773	762	750	799	638	773	694	605	581	594	672	730	757	765	781	806	847	845	764	
24	807	792	783	782	783	783	780	778	772	772	763	674	730	763	772	763	752	754	733	730	730	735	745	745	759	
25	748	753	753	753	753	753	758	754	749	749	742	732	745	745	749	732	732	714	745	750	749	762	761	794	749	
26	841	886	908	884	864	833	773	716	850	748	736	704	694	701	655	738	749	754	761	772	779	771	773	786	778	
27 D	848	860	830	816	761	748	468	747	357	408	309	443	680	802	778	771	772	773	778	822	804	796	789	800	707	
28	818	833	856	862	749	624	618	627	335	574	527	583	672	790	794	792	791	772	773	773	794	804	823	817	725	
29 D	828	827	832	752	800	605	677	675	528	513	413	610	647	732	763	695	749	773	761	784	797	802	793	806	715	
30	839	813	806	849	806	778	721	527	689	510	516	546	661	750	761	770	778	761	774	778	786	800	816	823	736	
31	832	828	826	797	806	806	716	593	716	645	588	672	666	593	716	774	782	774	779	781	783	783	784	786	743	
Mean	802	806	806	794	788	758	727	709	674	670	670	683	719	741	748	752	757	756	759	763	768	774	781	788	750	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28 Meanook

July 1953

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° East +			Minimum 24° East +			Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +			Range		
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$
1 D	05	50	1005	11	28	75	930	10	32	100.2	09	15	-43.0	143.2	02	31	897	08	57	108	789
2 D	02	13	1014	09	45	724	290	02	24	73.8	06	32	19.3	54.5	02	15	910	06	00	477	433
3	00	43	981	08	55	346	635	12	45	40.4	09	30	18.4	22.0	02	10	844	09	22	450	394
4	05	09	991	11	29	448	543	05	12	60.1	11	45	17.6	42.5	03	17	851	11	31	382	469
5	06	40	942	07	03	685	257	07	05	66.0	06	05	11.9	54.1	23	59	828	06	11	438	390
6	01	01	1083	07	45	757	326	01	12	51.1	09	45	26.5	24.6	01	00	973	07	43	571	402
7	05	18	1186	14	35	842	344	06	40	49.3	04	57	11.8	37.5	03	10	947	06	10	696	251
8	00	32	989	08	45	764	225	07	30	59.9	21	01	22.4	37.5	00	28	891	07	40	603	288
9	03	45	916	20	10	811	105	15	48	52.1	22	15	17.4	34.7	23	47	816	08	51	695	121
10	02	16	947	08	11	773	174	07	10	48.4	21	45	28.7	19.7	01	14	850	08	14	674	176
11 Q	04	56	975	22	12	855	120	15	50	46.9	05	25	24.4	22.5	04	55	829	05	20	671	158
12	23	13	991	22	50	833	158	16	42	50.8	22	37	22.1	28.7	23	15	820	17	52	740	80
13	06	28	943	09	37	449	494	06	35	70.0	09	48	-12.9	82.9	09	36	928	09	47	460	468
14	23	46	946	20	00	834	112	17	50	59.9	22	15	27.7	32.2	23	50	780	19	45	728	52
15	04	24	1074	08	20	496	578	04	59	78.7	08	17	06.3	72.4	05	19	861	08	19	379	482
16 Q	01	30	915	03	37	865	50	03	42	45.0	21	47	29.8	15.2	03	06	793	07	45	739	54
17 Q	14	22	920	09	20	823	97	08	15	50.3	21	00	26.7	23.6	12	00	783	08	00	639	144
18 Q	01	50	923	19	10	873	50	15	18	47.2	21	00	31.0	16.2	03	00	810	09	24	726	84
19	05	30	921	02	15	853	68	16	05	45.5	21	40	26.7	18.8	04	46	852	06	52	716	136
20	05	25	980	11	29	813	167	15	40	51.4	05	42	20.8	30.6	05	26	839	05	40	672	167
21 Q	01	55	913	09	20	688	225	05	47	50.3	07	02	29.6	20.7	23	33	800	09	22	502	298
22	23	53	959	09	45	830	129	10	45	48.4	23	12	28.3	20.1	23	59	829	09	46	682	147
23 D	03	25	1163	09	20	-250	1413								09	42	1097	10	58	464	633
24	00	36	1006	11	16	533	473	15	35	54.4	11	16	11.8	42.6	00	10	839	11	24	539	300
25	14	45	920	18	17	832	88								23	50	839	18	12	739	100
26	03	16	1126	09	27	335	791	11	15	70.8	10	20	00.2	70.6	08	35	1028	07	49	544	484
27 D	03	30	1282	08	15	29	1253	04	05	116.3	06	35	-10.7	127.0	01	04	918	08	37	9	909
28	05	12	1147	08	10	67	1080	09	37	76.9	08	25	-12.9	89.8	03	47	966	08	00	181	785
29 D	03	13	1074	10	33	270	804	03	17	80.6	10	40	00.7	81.3	03	10	927	10	32	206	721
30	06	23	1011	08	20	184	827	06	30	92.4	08	42	-40.0	132.4	08	24	971	09	05	369	602
31	02	50	966	10	05	374	592	06	45	59.3	09	55	05.7	53.6	02	10	885	10	00	373	512
Mean			1007			575	432			61.9			11.9	50.0			877			522	356
No. days			31			31	31			29			29	29			31			31	31

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

Table 29 Meanook

H = 12,000  $\gamma$  +

August 1953

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	904	919	907	913	900	894	897	886	888	873	880	876	869	890	904	897	876	845	849	866	869	908	900	907	888	
2	892	904	907	903	885	888	895	896	896	841	787	895	912	911	904	896	884	860	868	864	884	888	900	896	886	
3	896	884	884	892	900	888	806	908	884	900	896	892	893	889	884	881	872	861	857	857	876	888	886	889	882	
4	896	907	876	882	889	888	896	896	891	895	899	899	893	904	883	873	881	884	875	865	858	872	885	889	886	
5	896	881	872	888	888	888	886	870	855	876	889	895	897	899	897	893	883	870	861	854	851	867	880	888	880	
6	889	892	889	893	893	894	900	901	896	878	889	906	893	897	896	886	879	870	873	879	885	874	874	882	888	
7	894	903	907	901	897	886	886	880	867	833	791	846	894	896	901	897	882	863	857	856	858	863	880	880	876	
8	893	888	882	889	889	886	872	874	886	874	886	878	880	880	900	897	879	868	859	859	866	883	902	911	882	
9	927	951	943	958	958	882	887	904	897	897	903	909	886	857	900	900	879	868	864	878	861	864	878	890	897	
10	896	905	889	886	896	911	902	859	645	800	759	747	879	884	904	907	882	864	858	869	882	904	978	954	869	
11	998	982	1037	1076	939	945	921	862	714	726	575	696	798	857	863	861	847	847	859	874	888	896	911	938	871	
12 D	937	1064	1193	1272	1217	1037	882	645	410	113	191	504	739	893	864	661	857	858	868	872	874	872	923	958	821	
13	982	1125	1132	1073	1005	886	881	891	913	891	887	886	893	889	894	917	891	897	858	864	853	872	873	898	923	
14	901	886	896	886	875	880	879	889	891	878	850	865	898	898	900	898	886	867	863	875	878	881	900	898	884	
15	896	879	881	894	882	889	852	901	900	889	882	878	886	895	896	882	867	849	831	839	860	867	868	894	877	
16	893	869	889	889	874	887	888	889	880	794	759	864	871	889	866	868	874	864	841	837	846	864	860	880	864	
17 Q	893	889	891	875	878	880	885	885	886	887	886	886	872	849	880	877	871	857	857	863	865	874	877	881	877	
18	887	893	878	872	880	882	886	886	886	886	886	887	896	894	896	884	867	852	849	843	857	876	886	894	879	
19 Q	888	891	890	889	882	880	882	886	888	889	889	889	888	882	889	882	871	863	868	873	875	881	882	883	882	
20 Q	879	885	886	886	886	886	882	884	888	889	888	889	888	890	889	881	878	859	861	858	859	867	885	880	880	
21 Q	888	896	885	885	886	887	886	888	891	880	886	896	896	896	884	880	871	863	868	868	868	875	885	890	884	
22 Q	894	892	895	897	895	885	893	893	884	888	887	880	888	896	888	882	868	859	864	871	876	883	894	897	885	
23 D	919	918	906	929	943	907	925	925	829	786	742	543	662	845	884	797	817	828	833	835	849	915	1044	1084	861	
24 D	915	1041	961	1063	945	665	620	770	770	753	857	770	443	681	876	880	794	819	853	860	880	871	944	1091	838	
25	904	866	892	900	897	862	704	529	506	353	597	756	694	747	835	905	877	875	884	885	889	894	893	905	794	
26	895	905	890	902	897	872	872	858	817	901	901	887	785	727	872	884	867	849	830	860	853	866	889	889	865	
27 D	931	986	1034	1039	926	904	802	632	320	443	454	184	511	645	778	803	842	865	844	864	898	896	904	927	768	
28	925	938	915	958	892	821	830	714	691	376	659	567	817	857	876	817	896	888	876	864	872	894	919	958	826	
29	941	907	913	884	907	770	398	555	560	398	758	860	806	825	860	857	854	866	875	868	889	897	922	782		
30 D	902	960	926	902	924	848	566	550	454	645	735	883	895	876	770	739	884	878	868	872	876	882	911	915	819	
31	905	919	966	896	944	833	875	850	672	622	700	880	622	455	712	849	870	873	880	882	883	904	874	891	823	
Mean	908	923	926	931	915	878	840	828	782	760	777	806	826	844	872	866	869	862	859	864	869	882	899	915	862	



**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 30 Meanook

D = 24° E + ...'

August 1953

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	35.0	35.8	42.9	49.2	36.9	33.9	38.8	36.6	40.0	42.3	40.6	37.7	39.9	44.4	43.3	44.7	44.3	39.6	36.6	30.6	26.8	30.5	32.0	33.3	38.2	
2	35.0	36.9	41.6	46.0	36.5	35.7	36.7	37.9	34.6	33.9	26.7	38.4	42.6	45.7	44.9	45.8	42.0	40.6	36.6	35.5	33.5	30.7	31.0	32.9	37.6	
3	36.0	36.1	36.5	37.1	38.4	36.5	29.7	34.9	36.9	38.0	36.9	38.0	40.8	40.4	42.7	42.4	39.5	37.9	32.1	28.1	27.0	28.1	30.7	32.7	35.7	
4	34.0	34.5	39.6	36.9	34.5	40.8	41.9	36.9	37.0	35.0	37.9	39.1	40.6	43.3	42.4	43.6	42.3	36.0	33.1	31.5	31.0	28.5	29.1	32.0	36.7	
5	34.5	35.1	35.0	35.5	36.0	35.3	36.4	34.7	38.6	43.8	39.4	39.9	41.9	43.2	42.8	42.4	41.9	38.9	37.8	34.1	31.9	28.1	28.1	28.7	36.8	
6	29.6	31.0	32.5	33.0	33.5	34.4	35.0	35.7	34.8	38.9	40.9	40.9	42.8	44.9	44.9	45.8	44.4	40.8	37.4	33.0	31.0	28.1	29.1	31.3	36.4	
7	34.0	34.8	43.8	39.9	38.9	35.5	35.5	40.9	42.4	41.9	40.4	40.4	42.0	43.8	45.5	46.5	44.9	40.9	34.5	32.3	29.6	29.1	30.1	32.5	38.3	
8	39.9	36.0	36.0	35.9	43.5	37.9	33.0	36.5	37.9	36.3	35.0	33.9	36.0	39.8	45.7	47.3	45.8	41.9	35.0	31.0	28.6	28.6	29.4	31.5	36.8	
9	33.3	43.8	36.9	44.8	43.8	48.5	41.9	33.0	35.5	36.9	37.9	40.9	45.8	47.1	52.6	51.7	51.9	44.8	36.9	32.5	28.1	26.6	23.7	29.6	39.5	
10	33.3	35.0	36.9	36.0	35.1	38.9	36.0	55.6	25.1	41.4	20.2	24.2	47.8	50.4	48.8	45.8	42.8	37.4	32.0	26.1	26.1	24.4	31.0	31.0	35.9	
11	32.7	32.5	35.7	42.4	37.4	36.0	33.0	33.0	33.3	45.3	36.9	42.8	49.2	49.5	46.8	44.7	37.4	30.1	31.0	32.5	31.5	32.0	31.9	28.4	36.9	
12 D	28.2	28.2	41.9	13.3	20.7	13.7	-0.5	20.3	52.9	32.8	36.8	64.2	48.3	45.3	58.1	56.1	48.3	38.9	39.4	36.0	32.0	28.1	29.9	28.1	35.0	
13	26.6	31.0	31.0	35.0	34.0	35.8	33.0	32.0	33.0	36.5	39.2	42.0	46.8	51.7	56.1	53.2	51.7	44.8	38.9	38.4	30.1	30.1	31.0	34.1	38.2	
14	34.3	42.9	37.9	50.7	45.8	36.0	40.7	35.3	35.0	30.1	25.4	33.0	39.9	41.9	49.2	47.8	45.9	41.3	36.9	33.0	29.1	28.3	30.1	32.1	37.6	
15	33.0	34.4	34.4	33.9	36.0	35.0	34.7	36.9	40.5	37.0	37.9	41.1	40.6	42.8	45.3	46.1	46.4	46.7	39.2	33.1	31.1	28.5	28.2	28.9	37.2	
16	29.4	34.6	33.9	33.1	34.6	33.1	32.9	34.6	34.7	42.2	45.3	43.7	41.9	39.0	41.1	42.5	42.0	40.3	38.4	32.0	29.4	28.3	28.8	31.0	36.1	
17 Q	33.5	35.3	34.9	34.3	35.1	35.0	35.3	36.0	36.0	36.8	37.5	37.9	37.9	40.9	46.7	49.4	48.1	42.9	37.9	33.9	31.1	30.4	32.3	34.0	37.2	
18	34.2	34.7	41.1	36.0	34.8	37.0	37.0	35.3	36.1	36.7	37.6	39.1	40.8	43.3	46.0	46.3	44.0	41.3	36.9	32.1	29.6	29.6	31.3	32.0	37.2	
19 Q	32.2	32.2	34.7	32.2	38.4	36.3	34.5	34.9	35.1	36.0	36.6	38.0	39.9	42.8	44.0	45.7	43.8	41.0	36.0	33.3	31.4	31.2	32.3	33.7	36.5	
20 Q	35.0	34.9	35.1	34.2	34.2	34.6	35.9	35.9	35.4	36.7	37.8	38.5	39.8	42.3	43.7	43.7	43.0	39.8	36.8	33.0	30.4	30.2	31.2	31.2	36.4	
21 Q	33.4	33.7	33.7	35.2	35.8	35.4	35.7	35.3	35.6	36.1	33.9	38.3	41.8	43.5	43.7	41.5	39.8	37.3	34.2	32.9	32.8	32.8	33.2	33.2	36.2	
22 Q	34.9	34.9	35.4	35.9	36.2	37.8	36.7	35.4	38.3	42.5	40.3	36.8	43.2	46.7	46.7	46.7	44.2	40.1	33.4	32.0	30.0	28.9	30.9	30.9	37.4	
23 D	33.4	30.0	27.1	21.1	26.5	32.4	33.2	33.9	37.8	42.3	47.7	59.8	77.5	48.2	48.2	46.7	40.3	30.0	27.5	29.9	16.2	31.9	28.5	28.5	36.6	
24 D	30.8	47.6	41.2	27.9	27.7	43.9	20.5	38.0	42.6	42.2	32.8	29.9	31.3	39.7	45.7	46.7	40.8	31.0	24.4	28.2	33.8	32.3	42.6	42.6	36.0	
25	35.8	34.3	36.3	56.4	42.6	34.8	09.3	31.7	43.5	37.7	38.8	42.2	47.1	47.5	49.5	47.2	39.0	37.7	32.3	32.0	35.3	36.4	35.0	34.8	38.2	
26	40.7	43.1	35.7	40.7	61.8	40.7	38.2	35.2	29.8	33.1	35.3	36.6	32.8	35.8	44.1	45.5	44.1	42.6	34.7	26.9	27.6	27.9	30.7	30.5	37.2	
27 D	30.8	39.2	63.3	61.3	47.2	42.5	37.7	43.6	64.2	41.3	47.7	42.6	69.6	51.9	51.5	52.9	44.8	43.6	31.8	31.7	33.3	33.7	34.1	34.1	44.8	
28	35.3	43.1	55.1	43.3	47.4	43.5	44.7	28.3	51.5	36.4	43.5	31.7	33.7	40.6	41.7	42.3	42.1	42.1	39.3	35.7	34.7	32.8	34.6	34.6	39.9	
29	39.2	32.2	32.8	50.4	72.0	43.3	19.3	19.3	14.6	52.4	54.7	34.0	42.3	43.0	42.5	45.8	45.0	42.9	40.6	33.7	36.2	34.5	32.7	32.7	39.0	
30 D	32.8	69.6	44.8	35.1	44.8	41.3	45.0	47.4	38.9	36.5	29.9	38.6	38.7	38.6	43.0	38.6	42.5	43.4	42.5	36.0	34.4	31.7	35.0	35.0	40.2	
31	35.7	33.6	50.4	47.0	41.6	35.2	38.1	46.5	33.7	56.3	33.7	40.6	45.0	34.2	33.2	38.6	44.5	40.7	37.6	34.7	34.4	33.9	32.8	32.8	39.0	
Mean	33.8	36.8	38.6	38.5	39.1	36.8	33.5	35.8	37.6	39.2	37.6	39.5	43.5	43.6	45.8	45.9	43.8	39.9	35.5	32.4	30.6	30.2	31.3	32.2	37.6	

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

Table 31 Meanook

$Z = 58,000 \gamma +$

August 1953

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	796	815	833	844	818	792	784	760	712	689	728	739	736	748	781	773	769	763	770	779	771	794	791	789	774	
2	783	792	807	854	819	807	790	743	770	672	580	728	781	783	776	774	774	774	773	783	794	790	784	791	772	
3	804	794	792	789	773	769	636	774	749	764	774	774	777	763	761	769	770	770	770	765	765	767	772	778	767	
4	782	794	815	815	794	783	761	749	754	763	771	773	774	771	750	738	759	744	749	760	762	770	772	773	770	
5	781	778	772	772	781	782	781	752	661	710	753	764	769	769	767	768	763	761	759	760	767	781	781	774	763	
6	772	770	769	768	768	768	770	758	761	749	722	761	762	762	760	753	760	760	759	759	761	759	761	761	761	
7	771	786	847	803	817	787	764	751	725	621	585	694	748	765	765	758	752	752	755	753	755	759	767	783	753	
8	803	783	774	774	761	748	730	710	739	716	738	738	726	742	753	752	751	751	752	755	760	760	763	770	752	
9	792	842	842	829	817	720	739	784	764	760	761	764	744	716	719	741	742	741	736	741	750	763	761	758	764	
10	753	770	782	783	802	812	781	616	259	583	592	574	703	739	776	774	758	755	759	753	763	772	842	817	722	
11	861	862	880	830	815	839	794	742	728	652	694	558	641	695	724	720	730	751	778	802	815	813	818	840	766	
12 D	859	936	916	828	618	580	722	774	789	711	783	554	596	742	694	616	731	729	761	774	783	783	806	813	746	
13	851	895	900	899	899	817	781	783	789	783	783	778	774	769	757	750	743	748	742	761	778	799	802	798	799	
14	815	810	801	783	734	783	763	753	744	723	676	680	751	763	767	769	769	760	767	770	771	771	771	771	761	
15	771	770	769	770	776	771	770	768	780	778	767	760	741	758	770	770	765	760	753	752	772	787	764	773	767	
16	791	776	772	781	781	783	772	763	750	616	525	683	713	761	751	738	739	741	750	748	761	771	770	770	742	
17 Q	773	774	778	773	764	760	761	760	760	759	759	759	749	716	748	749	749	749	749	749	750	757	759	759	757	
18	763	773	791	776	768	763	752	758	758	758	758	758	761	759	758	755	752	751	752	755	753	755	755	761	760	
19 Q	763	770	772	787	789	774	760	752	752	752	752	752	752	750	750	752	753	751	752	750	752	760	761	762	759	
20 Q	761	761	759	757	758	758	758	757	757	752	752	752	751	750	750	750	747	743	741	742	747	751	757	757	753	
21 Q	750	750	750	750	752	751	751	750	751	736	721	736	748	752	752	752	752	752	751	755	757	759	759	759	750	
22 Q	755	755	755	755	755	755	763	745	740	741	754	739	748	750	748	748	748	748	748	748	755	764	762	760	752	
23 D	769	772	786	842	881	791	783	780	668	660	728	685	649	759	767	694	674	693	738	761	774	827	906	875	761	
24 D	839	899	838	711	667	590	574	555	594	685	758	725	577	666	741	743	701	748	739	763	800	799	828	875	726	
25	799	787	803	744	724	661	332	577	371	250	547	605	625	627	725	764	761	760	777	778	782	789	786	811	674	
26	810	803	789	793	750	728	743	670	603	739	771	776	690	608	705	742	751	745	764	772	776	806	833	812	749	
27 D	817	871	866	752	772	574	577	571	637	426	393	781	492	579	655	725	754	791	786	804	802	784	817	837	703	
28	826	833	831	828	683	536	672	471	577	538	577	538	655	735	781	736	806	777	763	769	789	806	817	861	717	
29	808	783	806	828	767	636	783	482	471	505	248	569	689	692	749	752	743	759	783	786	819	825	801	810	704	
30 D	841	884	842	828	700	580	583	603	600	516	581	750	802	792	733	677	772	772	777	794	801	801	825	826	737	
31	808	806	855	799	819	670	651	649	647	642	730	763	633	627	571	722	767	767	772	783	798	803	794	800	736	
Mean	796	806	809	795	772	731	722	705	683	669	679	710	712	729	742	743	752	754	759	765	774	781	790	794	749	



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32 Meanook

August 1953

Day	Horizontal Intensity					Declination					Vertical Intensity										
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range						
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,000 $\gamma$ +		58,000 $\gamma$ +								
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$		
1	21	26	973	12	55	803	170	03	12	58.9	20	50	23.7	35.2	03	48	877	09	32	661	216
2	03	43	943	10	45	678	265	03	42	56.7	10	40	12.7	44.0	03	37	889	10	36	464	425
3	07	40	966	06	41	683	283	06	05	52.1	06	32	12.8	39.3	00	45	815	06	31	548	267
4	01	10	927	20	10	853	74	06	00	50.1	21	35	27.1	23.0	02	35	827	06	50	719	108
5	00	31	913	07	55	821	92	08	50	49.0	08	00	25.6	23.4	06	45	790	08	30	639	151
6	20	25	935	21	10	857	78	15	25	48.6	21	40	25.7	22.9	20	27	779	10	11	705	74
7	02	24	944	10	28	739	205	02	35	51.3	21	22	27.8	23.5	02	30	886	09	53	470	416
8	23	05	931	06	48	833	98	04	45	56.9	06	40	26.6	30.3	00	30	810	06	12	674	136
9	01	22	974	06	02	824	150	14	50	55.1	22	17	18.7	36.4	01	15	904	05	57	658	246
10	22	55	998	08	09	527	471	07	45	79.8	10	45	-4.1	83.9	22	30	872	08	35	217	555
11	03	19	1202	10	27	457	745	04	05	66.9	10	32	08.9	75.8	01	30	933	11	33	507	326
12 D	03	51	1349	09	10	-218	1567	08	25	138.5	06	52	-68.9	207.4	08	43	1020	05	24	360	660
13	02	32	1210	20	41	832	378	15	08	65.4	04	18	19.3	46.1	02	32	943	16	47	722	221
14	00	17	930	10	15	822	108	03	55	76.5	10	08	19.4	57.1	03	50	840	10	11	634	206
15	23	56	936	18	32	825	111	07	57	51.5	23	58	27.0	24.5	08	55	799	12	40	730	69
16	00	01	935	10	00	614	321	10	08	61.2	21	45	26.5	34.7	04	00	806	09	54	499	307
17 Q	00	10	911	13	44	833	78	15	40	51.2	21	30	30.2	21.0	02	47	783	13	46	696	87
18	23	15	913	19	25	835	78	15	15	48.1	20	55	28.6	19.5	02	45	800	16	25	747	53
19 Q	00	48	904	17	31	857	47	15	05	47.3	03	05	27.3	20.0	03	24	815	12	25	743	272
20 Q	01	24	895	17	20	855	40	15	00	45.8	20	40	29.1	16.7	00	10	764	17	45	738	26
21 Q	01	40	904	17	15	857	47	13	20	45.4	20	30	32.1	13.3	21	22	761	10	13	706	55
22 Q	23	31	904	17	32	853	51	13	52	48.9	21	40	28.4	20.5	05	30	772	08	20	728	44
23 D	22	55	1248	11	20	334	914	12	12	133.8	20	25	06.1	127.7	22	50	1024	11	52	402	622
24 D	23	25	1244	13	09	291	953	23	05	99.8	06	05	39.7	139.5	23	07	976	05	55	287	689
25	05	20	1004	08	52	-83	1087	10	17	76.6	07	02	25.8	102.4	02	54	849	08	34	72	777
26	03	10	942	13	26	670	272	04	17	99.2	08	02	21.3	77.9	22	33	852	08	03	472	380
27 D	05	25	1365	08	56	-259	1624	09	15	111.9	11	05	15.4	127.3	10	54	1014	09	47	265	749
28	03	53	1158	09	36	400	758	03	58	72.4	07	10	02.1	70.3	01	20	941	09	38	316	625
29	04	47	1004	09	42	-29	1033	04	30	91.0	07	20	55.6	146.6	03	25	905	10	30	-66	971
30 D	01	11	1134	07	54	161	973	08	00	112.8	08	22	32.9	145.7	01	03	972	07	30	99	873
31	02	25	1226	12	55	248	978	09	10	80.4	05	28	12.2	68.2	02	25	983	05	41	520	463
Mean			1026			573	453			71.0			08.9	62.1			871			514	357
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 1953

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	906	896	891	891	896	911	888	888	567	702	830	740	625	806	861	840	846	880	880	879	886	884	896	895	841
2	908	900	885	892	895	937	839	806	807	807	763	768	828	810	844	842	817	850	881	872	895	904	901	896	856
3 D	894	899	900	896	891	888	889	890	860	837	788	711	819	857	861	850	864	808	846	862	896	932	1080	1098	880
4 D	1059	1059	1162	1044	911	652	576	243	350	424	651	392	670	632	723	817	842	863	827	896	875	899	927	1044	772
5	1162	1188	1358	1264	1175	1102	936	883	820	712	819	880	896	897	892	885	868	855	858	848	867	852	867	889	949
6	889	889	889	882	882	882	880	647	785	920	907	888	776	830	893	880	863	840	842	846	866	887	897	889	860
7	894	895	885	888	886	837	845	893	878	725	706	839	862	857	911	887	854	838	860	901	870	878	904	904	862
8	897	896	887	891	874	880	897	893	827	778	896	888	875	884	887	882	875	859	859	867	879	893	897	897	877
9 Q	889	886	876	882	889	866	896	896	896	896	896	896	897	897	890	876	867	862	864	866	885	893	896	896	885
10	896	896	896	896	894	894	904	904	888	888	900	895	872	896	894	880	860	849	851	859	868	886	885	904	886
11	958	1030	888	888	887	887	886	888	889	914	874	881	889	880	889	888	865	862	855	860	872	883	906	905	893
12	895	895	895	898	899	896	897	895	885	887	888	875	889	896	895	888	887	880	859	862	872	887	910	897	889
13	879	895	895	887	890	895	885	881	816	864	896	888	889	887	887	877	864	860	867	876	887	889	895	895	881
14 Q	888	887	887	889	894	895	895	899	898	894	893	888	895	891	887	879	870	863	871	879	887	892	899	895	888
15	895	894	895	910	911	910	911	910	917	914	881	861	909	895	876	892	879	859	801	839	869	902	888	895	888
16	884	888	881	880	888	886	885	889	889	895	905	903	896	893	893	881	866	849	827	832	859	863	893	888	880
17	887	887	885	877	888	884	865	853	867	878	869	892	871	816	805	846	880	879	867	867	881	895	887	893	872
18	893	881	890	890	890	891	890	899	889	890	891	901	899	899	895	893	887	885	876	863	870	895	954	977	895
19 D	1145	1113	1051	851	1043	802	291	466	571	552	210	721	329	695	652	748	733	782	870	856	906	936	961	906	758
20 D	922	1007	928	931	866	762	636	353	613	771	672	790	734	674	707	762	779	881	869	906	905	899	913	899	799
21	904	897	926	906	905	911	815	503	625	744	562	758	754	860	863	881	863	848	871	879	899	885	892	899	827
22	921	913	1054	1009	1136	977	861	423	489	858	747	874	895	890	884	875	861	851	900	875	889	888	913	913	871
23 D	879	895	890	897	909	784	690	841	917	659	351	473	720	764	521	854	836	879	787	806	860	893	895	918	788
24	890	921	896	887	888	867	794	816	832	714	503	268	422	744	821	898	881	863	851	856	871	871	882	892	797
25	899	887	888	895	893	888	888	852	807	874	888	883	880	895	864	898	885	865	875	873	874	875	897	897	880
26	901	901	897	897	897	897	895	875	854	875	884	886	892	874	859	859	859	854	863	863	872	866	888	895	879
27	903	897	981	941	910	735	584	744	744	707	747	563	744	868	879	872	885	900	888	882	885	887	892	895	830
28 Q	889	878	878	890	898	902	873	870	872	880	891	891	891	891	884	885	880	881	873	878	887	888	888	891	884
29 Q	892	893	893	890	888	889	890	890	890	890	890	896	902	902	890	891	890	882	882	882	881	881	884	885	889
30 Q	891	891	891	891	890	884	882	886	895	901	903	907	912	913	912	903	890	875	872	885	894	905	864	886	893
31																									
Mean	920	925	931	914	915	876	825	786	794	808	783	796	811	846	847	867	860	860	860	867	880	890	905	911	862

DECLINATION  
Mean values for periods of sixty minutes; Universal Time

Table 34 Meanook

D = 24° E + ...'

September 1953

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	34.2	35.7	37.8	35.1	38.1	42.5	44.5	35.0	18.0	27.1	38.6	41.1	43.0	36.7	43.5	41.6	36.5	39.1	37.6	34.4	31.8	32.4	33.7	34.6	36.4	
2	33.2	38.1	38.3	34.9	43.0	52.4	37.6	38.6	31.3	31.0	44.4	37.5	40.5	37.1	39.4	40.0	37.1	33.8	28.3	24.4	30.4	33.5	34.1	36.7	36.5	
3 D	35.6	36.6	35.7	34.5	35.2	36.0	35.7	35.7	37.9	36.6	41.6	36.2	50.4	46.9	46.7	40.8	39.6	40.7	36.7	22.5	27.0	32.6	44.5	56.3	38.4	
4 D	38.3	43.7	18.3	34.8	38.9	20.7	30.0	20.7	05.4	39.5	44.2	45.4	40.6	47.4	45.8	46.3	48.0	39.6	33.0	31.2	28.8	31.0	30.7	28.1	34.6	
5	32.6	32.7	29.8	28.0	37.8	33.7	31.6	31.0	37.6	36.9	39.2	42.0	45.0	47.2	49.8	51.5	48.5	43.7	39.9	35.9	33.4	30.6	31.9	34.6	37.7	
6	36.7	37.6	37.1	36.9	36.7	36.1	47.8	58.8	44.6	36.7	30.2	39.0	37.9	47.9	52.4	39.5	43.4	38.8	38.9	29.1	29.1	30.4	32.9	35.9	38.9	
7	36.4	36.5	36.8	36.8	36.8	32.8	45.7	36.8	35.9	20.4	37.8	45.4	37.5	39.3	45.5	47.7	42.4	37.5	33.9	32.0	31.0	31.1	32.4	34.2	36.8	
8	37.0	35.3	36.9	37.2	39.8	42.1	38.0	33.7	34.6	27.5	35.9	39.0	38.9	39.9	44.4	42.2	36.0	37.1	31.4	29.0	29.3	32.1	35.1	37.1	36.2	
9 Q	37.4	37.4	32.3	37.7	35.7	47.9	34.3	34.8	35.0	36.7	37.8	39.6	40.4	41.8	43.4	43.7	41.9	37.7	38.7	30.9	30.7	31.0	32.8	35.6	37.3	
10	36.7	36.8	36.8	36.5	35.9	35.6	34.9	34.8	36.0	43.3	40.7	39.9	36.4	40.2	43.8	44.7	41.7	36.7	32.7	29.8	30.7	30.5	29.7	29.8	36.4	
11	25.2	45.1	31.6	33.3	33.8	33.9	35.6	36.6	40.7	39.9	40.5	42.7	48.4	46.5	46.7	45.2	43.2	39.9	37.1	34.0	31.9	31.7	32.7	33.7	37.9	
12	34.6	34.9	33.8	34.9	34.9	34.8	35.9	36.5	38.6	38.8	48.9	45.7	46.3	44.4	45.4	45.6	44.2	41.7	37.8	35.9	32.8	33.4	32.0	32.8	38.5	
13	33.5	37.3	37.7	49.6	36.6	34.8	37.6	41.5	36.9	42.0	40.3	41.2	41.8	41.4	41.6	41.7	42.0	39.7	35.5	32.7	32.5	32.7	34.4	34.8	38.3	
14 Q	34.8	35.4	35.4	35.4	35.4	35.8	35.8	37.6	38.4	38.7	38.6	38.6	39.6	40.8	42.4	42.4	41.6	39.8	35.8	32.8	30.9	30.8	31.9	33.7	36.8	
15	34.7	34.8	35.0	34.9	33.8	36.8	32.9	34.2	40.3	44.0	40.9	43.3	46.5	49.2	45.4	46.4	48.6	43.5	39.8	19.9	19.5	24.5	26.8	29.0	36.9	
16	30.5	31.5	32.9	34.5	33.9	34.7	35.4	35.8	36.2	37.6	38.6	39.7	40.3	42.0	43.6	44.2	42.3	36.6	26.1	26.5	26.5	30.3	34.8	35.5	35.4	
17	35.8	36.4	48.0	50.5	35.4	40.5	41.9	42.4	35.8	34.7	32.6	40.4	39.1	35.5	30.3	37.5	40.3	39.4	36.7	34.9	33.6	34.3	34.1	35.4	37.7	
18	36.6	40.7	37.6	36.4	36.4	44.6	37.5	38.5	36.4	34.8	33.1	39.3	39.2	40.5	42.4	44.5	44.4	43.5	39.4	34.8	27.4	30.6	33.6	39.1	38.0	
19 D	35.7	41.8	56.3	60.4	33.4	41.3	41.6	51.5	47.4	40.4	74.0	50.9	66.9	39.4	25.4	51.3	42.3	28.3	24.2	26.4	33.6	40.4	40.5	37.2	42.9	
20 D	35.7	55.1	61.8	48.1	36.5	23.5	40.0	32.8	21.7	36.4	26.3	40.1	53.4	49.2	54.8	33.2	34.1	33.5	29.6	33.6	34.0	35.0	34.7	39.4	38.4	
21	42.1	38.4	52.4	48.2	39.3	33.8	23.5	07.9	35.4	31.5	26.9	47.2	52.1	45.0	47.2	43.2	36.6	33.6	29.5	33.4	31.7	29.5	33.3	36.3	36.6	
22	36.2	37.2	72.7	40.4	34.2	32.3	16.3	15.4	46.8	39.3	46.8	37.7	43.4	44.9	45.3	45.2	43.6	38.7	35.5	33.1	31.2	31.0	35.1	35.4	37.0	
23 D	41.5	38.3	37.4	37.3	44.2	47.9	45.4	34.5	35.2	32.7	16.7	39.7	36.9	45.2	39.2	42.2	39.5	37.1	30.3	25.4	27.5	30.6	34.5	39.2	36.6	
24	39.3	45.5	48.5	36.3	35.5	29.7	34.8	40.3	47.2	38.3	48.1	30.3	31.1	40.5	45.5	44.9	44.1	36.5	38.1	31.1	34.3	32.5	32.2	34.4	38.1	
25	35.5	40.5	41.4	36.3	38.0	35.4	35.1	31.4	32.6	38.2	38.3	42.6	46.7	42.0	40.6	41.5	43.2	41.0	37.7	36.0	30.8	30.2	33.0	34.7	37.6	
26	35.9	35.0	38.5	37.3	36.8	36.8	38.9	36.8	40.1	40.4	43.6	42.1	39.2	38.7	40.8	41.5	39.4	40.8	34.0	32.5	32.5	29.1	30.2	31.1	37.2	
27	30.4	34.3	44.3	52.5	37.2	28.5	42.9	37.5	32.5	34.0	27.9	30.5	37.2	43.5	44.3	40.7	35.3	35.2	35.1	34.6	33.6	34.2	35.7	36.3	36.6	
28 Q	37.4	38.4	38.0	36.9	41.1	38.0	32.5	37.1	39.1	37.6	39.3	38.4	38.9	39.0	39.1	40.1	38.9	37.3	29.4	33.4	33.3	33.3	33.7	34.5	36.9	
29 Q	34.8	35.1	34.8	34.9	34.2	34.4	35.5	36.1	36.2	36.8	38.1	39.3	39.8	42.1	44.5	44.0	41.7	44.0	37.2	35.3	34.2	34.2	34.2	34.2	37.3	
30 Q	34.9	35.4	35.4	35.4	34.7	34.8	36.2	34.2	40.9	41.1	38.1	37.1	38.1	38.7	40.3	40.3	39.2	35.3	28.3	25.6	32.3	32.1	32.2	33.2	35.6	
31																										
Mean	35.4	38.0	39.8	38.9	36.7	36.4	36.5	34.3	35.8	36.4	38.9	40.4	42.5	42.4	43.3	43.1	41.3	38.3	34.1	31.0	30.9	31.8	33.6	35.4	37.3	

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

Table 35 Meanook

$z = 58,000 \gamma +$

September 1953

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	798	793	793	781	790	782	743	745	507	594	641	612	566	711	738	720	728	747	760	777	777	775	775	774	726	
2	789	828	817	800	791	694	509	672	692	681	627	692	705	728	745	750	739	749	753	761	792	802	798	808	738	
3 D	798	788	791	794	783	783	775	775	705	671	631	609	661	716	734	726	744	758	859	772	772	806	833	503	741	
4 D	471	724	637	603	811	629	773	705	362	594	693	681	556	482	560	678	731	763	782	813	797	813	833	895	683	
5	781	826	817	789	739	771	811	809	794	817	741	786	798	797	793	787	781	779	780	784	798	803	794	782	790	
6	778	778	777	777	778	779	713	406	590	789	801	783	681	683	760	768	770	770	771	772	773	783	789	794	744	
7	786	778	772	774	783	726	703	758	747	517	447	683	748	750	774	773	758	764	770	772	777	783	791	798	739	
8	811	813	806	811	788	769	752	765	681	537	726	761	758	769	757	761	769	769	770	774	775	775	781	781	761	
9 Q	781	782	791	791	792	758	782	783	774	771	770	770	770	772	772	772	771	771	772	774	782	781	773	772	776	
10	772	772	772	772	772	772	770	771	752	733	774	770	760	772	770	769	764	765	770	771	780	789	794	816	772	
11	850	928	802	772	765	769	769	747	672	764	761	748	771	761	753	763	771	772	772	774	774	772	769	770	774	
12	770	769	764	767	765	769	774	771	771	702	728	767	780	771	769	763	764	770	767	770	771	775	791	797	767	
13	811	793	799	794	788	778	763	744	646	691	771	775	771	772	771	769	770	770	769	769	771	772	773	773	767	
14 Q	773	772	772	770	769	769	771	768	769	772	771	767	765	765	765	765	770	767	763	762	764	765	767	767	768	
15	765	765	767	769	773	783	784	783	765	787	748	722	755	754	722	725	715	739	752	806	802	773	761	768	762	
16	770	772	770	769	769	769	769	768	767	765	770	769	770	770	778	772	770	771	758	763	769	772	778	774	770	
17	778	780	819	794	782	786	740	700	744	743	732	754	751	722	713	720	751	767	763	772	780	781	772	774	759	
18	781	783	778	774	778	781	722	770	767	768	758	771	773	771	769	769	767	761	761	772	763	778	838	905	777	
19 D	912	791	764	653	711	556	282	509	694	883	420	719	693	700	546	693	734	783	783	780	802	851	842	819	705	
20 D	831	881	847	844	546	586	605	661	507	653	598	635	557	549	657	682	677	758	770	803	800	808	806	844	704	
21	822	807	792	782	783	786	616	393	661	660	588	638	692	786	764	789	779	782	783	791	809	800	799	792	737	
22	806	841	880	841	786	778	660	471	625	754	757	777	790	784	783	781	778	778	781	786	794	796	804	807	768	
23 D	813	794	781	778	758	633	468	605	787	718	546	643	702	680	538	709	750	782	788	800	819	825	813	839	724	
24	806	826	803	783	783	683	551	498	642	652	613	491	579	575	682	758	775	771	772	783	798	796	794	756	708	
25	792	806	800	792	782	759	759	726	632	713	755	747	735	763	757	783	781	772	791	798	801	789	797	797	768	
26	798	798	798	799	798	796	802	760	700	728	783	788	791	782	782	783	782	774	764	772	786	794	807	808	782	
27	822	848	880	858	825	724	597	673	694	671	675	567	607	705	767	770	763	767	774	781	788	781	780	783	716	
28 Q	788	794	797	802	771	803	758	730	749	780	784	780	775	775	770	770	765	772	773	774	781	774	775	779	776	
29 Q	781	781	782	784	786	788	783	779	779	775	772	771	771	769	768	773	774	771	773	770	770	771	772	772	776	
30 Q	772	773	773	773	775	780	767	739	761	771	769	770	771	770	770	772	770	763	760	752	761	770	764	770	767	
31																										
Mean	787	800	791	780	771	745	702	693	691	715	698	718	720	730	734	754	759	768	774	778	784	788	792	788	752	

MEANOOK MAGNETIC OBSERVATORY 1953 1951

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36 Meanook

September 1953

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum					
	12,000 $\gamma$ +		$\gamma$	12,000 $\gamma$ +		$\gamma$	24° East +		$\gamma$	24° East +		$\gamma$	58,000 $\gamma$ +		$\gamma$	58,000 $\gamma$ +		$\gamma$			
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$		
1	05	36	938	08	30	446	492	12	30	58.7	09	00	03.2	55.5	05	05	817	08	32	418	399
2	05	30	1027	07	00	567	460	05	20	94.3	06	50	07.3	87.0	01	40	855	06	47	337	518
3 D	23	00	1553	11	21	637	916	23	30	91.4	19	38	18.3	73.1	22	25	917	23	30	360	557
4 D	01	05	1193	07	55	114	1079	11	18	66.5	05	35	44.3	110.8	07	11	973	03	05	220	753
5	02	15	1452	08	58	589	863	02	55	49.2	02	28	04.5	44.7	02	29	916	00	37	655	261
6	08	51	942	08	40	496	446	14	38	55.1	06	55	25.9	29.2	10	25	806	07	58	302	504
7	05	25	936	09	17	716	220	05	05	63.9	09	35	01.8	62.1	04	58	817	10	22	371	446
8	02	00	919	00	08	678	241	05	45	48.3	08	52	08.4	39.9	03	30	822	09	05	462	360
9 Q	06	47	911	05	32	825	86	05	30	61.3	06	30	29.0	32.3	02	35	806	05	33	711	95
10	23	30	924	18	10	840	84	09	30	56.4	24	00	25.0	31.4	23	32	830	09	16	694	136
11	01	15	1177	17	48	855	322	01	25	54.0	00	30	18.7	35.3	01	07	1029	08	28	617	411
12	09	25	965	09	18	823	142	10	28	53.5	23	15	27.7	25.8	23	18	807	09	35	631	176
13	01	47	917	08	32	758	159	03	22	60.5	08	10	27.9	32.6	00	55	838	08	35	577	261
14 Q	07	30	910	17	45	863	47	15	48	43.8	21	05	29.8	14.0	08	40	781	08	01	754	27
15	11	55	942	18	35	753	189	17	58	54.5	20	05	10.8	43.7	20	13	841	11	05	677	164
16	10	40	930	18	25	785	145	15	30	54.4	18	32	12.5	41.9	22	03	801	18	20	733	68
17	06	45	918	15	00	776	142	03	00	74.9	06	25	15.9	59.0	03	00	856	06	28	619	237
18	23	59	904	19	23	830	74	05	50	57.7	19	58	22.6	35.1	24	00	945	06	13	681	264
19 D	03	02	1302	10	40	-262	1564	07	22	170.1	06	58	43.5	213.6	09	51	1089	06	53	109	980
20 D	01	09	1137	07	32	30	1107	04	30	107.8	04	50	26.0	134.8	01	07	953	04	47	222	731
21	02	13	1152	08	07	222	930	02	15	67.1	07	00	12.8	79.9	02	13	984	07	15	239	745
22	04	26	1224	07	20	190	1034	02	12	89.5	07	40	89.4	178.9	02	13	975	07	37	-18	993
23 D	04	46	1135	10	15	-48	1183	06	32	94.8	10	22	25.1	119.9	23	40	858	06	47	181	677
24	06	57	1036	11	09	-21	1057	11	58	74.7	06	02	-7.2	81.9	01	57	862	11	12	401	461
25	13	00	918	08	43	774	144	01	58	50.4	07	40	26.3	24.1	01	45	820	08	45	569	251
26	07	00	929	08	46	818	111	07	12	45.5	07	42	20.9	24.6	22	50	817	07	57	636	181
27	02	46	1082	06	19	409	673	03	20	64.6	10	42	10.8	53.8	02	35	925	06	13	361	564
28 Q	05	28	923	07	44	819	104	04	40	49.3	06	22	21.5	27.8	05	44	817	07	45	664	153
29 Q	12	40	910	20	25	870	40	15	20	47.1	05	25	31.2	15.9	05	23	794	14	30	763	31
30 Q	20	50	920	22	03	847	73	14	20	44.0	07	12	27.5	16.5	01	16	774	06	25	689	85
31																					
Mean			1038			567	471			66.8			06.0	60.8			871			488	383
No. days			30			30	30			30			30	30			30			30	30

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

Table 37 Meanook

H = 12,000  $\gamma$  +

October 1953

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	898	894	902	1015	956	909	894	887	882	898	887	866	793	815	878	878	884	870	867	870	878	870	876	880	885	
2	886	884	890	891	890	891	889	890	889	888	884	874	894	898	890	877	867	858	860	876	882	884	886	886	884	
3	902	895	895	893	889	886	890	874	875	855	828	791	844	905	898	889	882	874	875	881	885	892	892	901	879	
4	886	890	891	893	891	892	890	891	890	885	894	888	891	898	894	890	878	876	870	876	878	882	886	890	887	
5 Q	886	890	891	898	893	890	895	897	896	894	878	898	905	903	898	891	881	871	872	880	889	894	895	894	891	
6 Q	887	886	891	895	892	894	891	894	894	894	898	902	904	898	896	890	878	867	872	884	890	898	897	894	891	
7	897	905	905	902	902	902	898	826	768	785	894	882	815	855	902	898	883	873	867	877	884	894	891	877	874	
8	889	888	895	898	909	918	911	895	891	891	885	886	894	890	881	891	886	878	870	878	884	875	880	889	890	
9	890	898	896	890	891	933	890	930	897	880	902	891	885	889	891	882	878	874	872	874	882	889	885	889	891	
10	897	886	877	897	889	889	887	889	889	891	894	894	894	887	875	874	873	870	851	841	841	883	890	886	881	
11	889	896	898	894	894	894	889	890	890	897	883	883	839	844	895	891	890	853	858	865	867	875	880	892	881	
12 Q	890	893	898	892	892	894	894	894	894	891	891	894	891	896	894	891	882	866	850	845	852	870	875	889	884	
13 Q	890	893	889	890	890	891	891	891	891	891	892	885	892	893	892	878	866	868	855	858	864	878	886	886	883	
14 Q	887	891	894	894	894	891	893	891	891	891	894	895	898	897	894	886	874	868	867	876	882	886	893	894	888	
15 D	896	896	896	896	896	896	896	896	901	903	897	902	898	904	726	545	717	748	898	902	870	872	898	967	863	
16 D	1075	976	882	909	851	870	569	624	811	849	811	823	839	819	811	773	779	781	848	867	957	917	949	941	847	
17	898	937	897	874	878	870	687	742	267	424	820	886	851	840	750	757	844	839	844	858	833	891	917	889	804	
18 D	883	891	962	863	945	906	735	674	346	494	228	275	244	189	440	551	729	755	812	858	895	927	952	864	684	
19 D	972	1007	914	843	867	707	612	451	318	357	307	694	467	671	866	852	839	864	898	894	894	884	897	898	749	
20 D	893	884	941	936	856	859	808	811	538	717	734	562	604	781	786	815	878	887	874	858	878	878	886	886	814	
21	888	884	894	894	892	887	891	862	674	502	502	620	843	815	877	880	882	883	881	878	884	883	886	889	828	
22	891	889	894	878	891	867	761	803	779	745	741	823	836	859	888	851	867	853	851	861	862	876	886	881	847	
23	882	886	896	892	910	847	809	835	874	870	808	836	849	878	877	878	878	876	875	874	876	880	884	888	869	
24	887	887	887	887	887	887	889	889	870	820	866	889	870	685	850	898	894	876	867	870	876	885	884	886	870	
25	881	891	878	888	894	888	880	880	878	866	866	882	881	886	887	886	878	866	862	866	873	889	887	890	880	
26	893	894	894	897	889	889	890	888	858	885	902	897	897	893	885	882	874	874	861	867	877	879	889	897	885	
27	890	888	890	888	885	901	824	681	486	812	857	858	863	876	890	881	865	857	850	868	888	881	875	882	847	
28	890	896	890	888	889	881	881	882	881	883	879	882	890	889	885	879	873	869	871	875	879	885	883	884	883	
29	881	876	885	885	896	896	898	897	897	893	890	893	886	893	894	893	885	875	881	875	890	889	883	879	888	
30	884	889	886	886	885	883	888	879	883	875	890	897	890	890	888	882	881	871	865	873	877	890	895	897	884	
31	888	889	893	889	888	880	886	889	896	889	888	888	888	889	885	881	881	873	874	880	885	896	896	897	887	
Mean	898	898	896	895	893	883	848	839	790	810	816	833	830	840	857	851	863	858	865	871	879	886	892	892	862	



DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 38 Meanook

D = 24° E + ...'

October 1953

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	33.3	34.0	35.3	35.3	36.3	36.1	37.0	36.4	37.1	37.0	39.0	34.7	38.0	40.9	40.5	38.6	36.8	32.2	32.7	35.5	33.6	33.2	31.7	32.2	35.7	
2	32.8	33.2	35.2	34.8	35.7	35.6	36.6	36.6	36.6	36.6	38.6	33.7	37.6	40.1	40.5	38.5	35.9	31.7	28.3	29.7	32.7	33.7	33.7	34.7	35.1	
3	34.7	34.8	34.8	34.7	37.1	46.5	40.5	41.5	40.6	38.6	37.6	33.7	46.4	45.5	42.5	43.5	41.1	38.6	35.2	33.5	32.2	31.3	32.2	30.7	37.8	
4	32.6	32.6	34.1	33.6	35.1	35.1	36.5	35.5	36.0	35.1	37.0	35.6	36.5	37.6	38.6	39.5	40.4	38.0	34.3	32.3	31.1	31.7	33.6	34.6	35.3	
5 Q	35.4	35.4	35.5	35.1	34.6	34.7	37.0	35.5	35.4	36.5	33.6	36.6	38.5	38.4	39.2	40.3	39.5	37.5	33.6	31.6	30.6	30.6	32.6	33.6	35.5	
6 Q	32.7	32.7	34.1	34.6	34.7	35.5	35.5	34.6	35.5	35.5	36.5	37.0	37.1	37.5	38.5	40.5	40.4	40.4	35.5	33.1	30.6	30.6	31.6	33.6	35.3	
7	33.5	33.5	33.4	33.5	33.6	34.0	33.5	56.0	41.3	52.2	43.8	43.8	38.1	36.9	42.3	44.3	42.8	40.4	37.4	34.4	31.5	31.5	31.1	30.5	38.0	
8	27.7	29.5	31.0	33.5	33.9	33.0	37.4	37.4	36.9	37.4	37.4	39.5	37.4	36.4	34.5	37.4	41.3	39.5	35.9	32.6	32.0	31.5	30.5	31.5	34.8	
9	31.6	32.6	33.4	35.3	35.4	50.4	39.1	36.5	37.4	36.3	36.4	37.9	40.4	38.9	40.4	41.8	41.8	39.9	36.4	33.4	31.5	31.5	32.4	34.0	36.9	
10	32.4	33.4	34.4	34.5	35.3	35.1	35.3	35.2	36.3	35.3	35.8	36.3	36.3	38.8	39.3	39.8	38.3	42.2	36.2	32.3	25.0	29.4	29.4	33.0	35.0	
11	35.2	35.3	35.3	35.2	35.3	35.4	36.2	35.3	35.3	36.3	34.5	37.8	34.8	28.5	41.2	41.2	37.3	38.4	34.4	32.5	30.9	31.1	32.5	33.5	35.1	
12 Q	34.3	34.4	35.1	34.5	33.9	34.9	34.4	34.4	34.8	35.4	37.2	36.8	36.3	37.3	39.8	41.1	42.1	41.2	38.3	33.4	25.4	26.4	29.4	33.5	35.2	
13 Q	34.3	34.3	35.2	35.3	35.3	35.3	35.2	35.2	35.3	36.3	36.3	36.2	36.7	38.3	41.1	42.1	38.2	37.3	34.2	32.4	30.5	31.3	31.8	33.3	35.5	
14 Q	34.8	35.3	35.2	35.3	35.3	41.6	37.2	34.3	35.7	35.2	36.7	36.7	37.2	38.1	39.2	41.6	40.2	37.2	33.0	30.3	29.9	30.8	32.4	33.8	35.7	
15 D	33.7	34.2	34.8	35.1	35.1	35.2	35.2	36.7	36.1	38.7	39.1	39.7	39.1	40.2	41.7	36.5	31.3	32.4	34.3	33.3	32.3	27.5	32.8	33.8	35.4	
16 D	47.1	32.9	37.2	43.6	43.6	42.2	22.5	27.9	33.3	35.2	34.3	33.3	35.2	35.2	33.3	30.3	24.2	23.4	39.3	32.8	36.7	34.2	31.3	32.3	34.2	
17	34.4	41.1	39.2	42.6	42.6	38.2	40.2	33.3	32.3	56.4	36.6	41.6	43.7	37.2	36.7	34.3	31.3	30.3	34.3	33.8	27.5	29.8	31.8	31.4	36.7	
18 D	32.3	33.8	41.1	37.2	37.2	39.6	26.4	33.8	47.2	62.3	09.6	50.0	61.8	24.4	32.3	24.4	36.7	21.6	23.5	24.4	27.3	31.2	32.3	41.1	34.6	
19 D	37.2	38.2	54.7	43.6	43.6	36.3	39.3	35.1	40.2	27.1	39.2	58.1	49.1	24.4	33.2	33.3	32.8	33.3	37.2	34.3	34.0	35.2	34.0	35.2	37.9	
20 D	38.7	39.2	56.9	42.1	42.1	35.2	43.6	33.8	20.5	31.8	47.2	50.5	30.3	27.9	32.3	26.9	28.5	36.7	34.3	36.7	38.2	36.7	34.4	35.0	36.6	
21	36.2	37.1	43.6	35.2	35.2	38.1	36.2	37.2	49.9	08.7	58.8	54.9	36.2	44.1	41.6	38.7	39.7	37.7	35.2	33.8	33.3	33.4	33.4	35.2	38.1	
22	35.2	34.8	34.8	57.9	57.9	37.1	27.9	40.2	25.3	29.8	35.0	31.3	36.5	34.4	38.2	37.2	37.2	36.7	33.8	32.3	31.4	32.3	35.3	36.3	36.2	
23	34.3	37.7	38.0	39.0	39.0	38.7	29.4	29.7	36.0	38.1	32.7	37.1	38.1	36.6	37.1	37.6	39.1	38.2	36.4	33.2	33.2	34.2	35.1	35.7	36.0	
24	35.4	35.5	36.1	36.1	36.1	36.1	36.1	38.0	37.6	45.0	37.2	39.2	40.1	22.5	39.1	40.9	43.5	41.0	37.1	34.2	33.2	33.3	34.2	35.0	36.8	
25	34.3	34.7	40.2	33.7	53.2	38.0	39.1	36.6	37.2	33.2	31.7	34.2	35.2	37.1	37.1	39.1	40.2	39.0	36.2	33.0	32.4	32.2	33.7	34.0	36.5	
26	33.7	34.7	35.8	35.1	35.1	35.1	36.1	41.0	38.2	40.2	36.3	35.2	37.1	37.6	39.1	40.2	39.1	36.6	34.3	29.2	29.2	30.2	31.9	30.7	35.5	
27	31.2	37.1	37.2	39.6	37.6	35.2	44.5	35.7	14.5	35.1	40.9	39.1	39.1	42.6	38.2	37.6	32.2	28.3	28.4	28.4	29.3	31.2	31.2	34.2	32.9	
28	37.2	38.2	37.0	38.6	37.1	35.2	35.1	34.7	34.7	35.6	35.7	35.1	37.1	38.1	39.1	40.2	39.1	38.6	32.2	30.6	31.2	33.7	34.8	33.4	35.8	
29	33.2	35.0	35.1	38.8	42.0	36.1	37.1	35.8	35.1	33.7	35.1	36.1	39.0	38.1	38.1	38.8	39.1	40.1	35.1	33.7	29.7	26.3	30.7	27.8	35.4	
30	28.7	33.7	33.7	34.7	35.0	36.1	36.1	34.3	36.1	33.2	33.4	35.2	39.1	36.2	35.6	37.6	36.1	35.2	32.4	32.3	31.7	32.3	31.7	30.9	34.2	
31	29.7	34.1	32.1	34.2	34.7	42.5	29.2	35.1	32.7	32.7	33.3	34.7	35.6	35.6	37.6	38.0	37.8	36.3	34.0	33.2	33.2	32.7	32.7	32.7	35.8	
Mean	34.1	34.9	37.1	37.2	38.0	37.4	35.7	36.2	35.5	36.8	36.7	38.8	38.8	36.3	38.3	38.1	37.6	36.1	34.3	32.5	31.3	31.6	32.5	33.5	35.8	

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

Table 39 Meanook

$z = 58,000 \gamma +$

October 1953

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	778	783	789	819	835	813	780	772	738	761	762	753	654	646	714	736	739	750	758	770	779	773	780	781	761	
2	783	778	773	779	778	774	772	772	768	758	750	726	749	759	771	772	771	767	760	759	770	778	779	780	768	
3	780	779	779	783	800	804	783	748	724	716	697	674	693	740	768	770	770	770	772	777	774	774	774	781	760	
4	781	781	781	780	783	780	773	773	773	763	770	768	768	762	763	770	771	770	768	768	773	781	781	781	773	
5 Q	779	779	773	772	772	772	770	761	759	764	757	761	765	765	765	765	764	763	759	758	761	762	770	770	766	
6 Q	770	771	772	772	772	771	751	759	767	767	768	768	768	768	768	767	767	764	761	761	761	761	761	761	766	
7	761	761	761	761	761	761	767	615	655	650	722	733	705	711	751	761	763	768	772	772	772	773	774	775	742	
8	790	790	806	810	812	812	804	794	779	772	767	754	767	757	759	772	772	772	767	771	772	779	794	783	781	
9	775	782	783	794	794	783	734	801	772	757	761	755	763	770	773	772	772	772	772	770	769	771	770	770	772	
10	772	793	793	778	772	771	767	767	767	767	767	767	763	763	753	754	753	755	761	772	763	778	780	775	769	
11	772	772	772	772	772	772	768	768	768	763	750	739	722	690	733	757	778	772	781	780	778	773	773	773	762	
12 Q	772	772	769	772	781	781	778	768	768	768	767	767	761	769	772	769	769	769	768	768	761	761	767	767	769	
13 Q	770	777	777	774	770	770	767	767	767	767	767	752	761	767	770	770	770	763	755	757	765	767	772	767	767	
14 Q	772	772	772	767	767	772	770	769	769	769	769	769	767	767	767	767	767	765	762	762	762	762	767	767	767	
15 D	764	764	764	764	764	764	763	767	762	758	752	755	736	736	604	477	587	712	801	796	793	816	838	867	746	
16 D	828	884	833	778	689	735	715	655	711	750	739	749	767	750	730	723	761	744	806	840	852	857	867	899	778	
17	850	845	828	796	783	759	606	661	583	566	627	722	695	703	674	703	762	745	774	796	817	845	833	822	741	
18 D	819	832	828	607	784	748	622	538	677	511	237	426	597	728	733	600	674	728	783	806	860	851	841	915	698	
19 D	846	833	652	650	661	618	538	440	509	663	488	623	548	743	777	752	778	796	823	787	811	800	804	806	698	
20 D	817	839	839	817	650	726	722	733	512	551	612	634	714	657	672	734	759	778	792	811	845	860	839	811	738	
21	816	816	808	800	800	794	783	738	560	433	413	578	728	691	783	797	780	778	772	773	777	778	778	779	731	
22	779	777	790	781	790	779	621	667	712	634	682	735	744	779	790	768	799	794	801	812	811	812	822	812	762	
23	809	823	823	820	812	655	699	732	755	739	644	667	684	734	765	779	787	786	784	783	783	779	780	783	759	
24	778	778	778	778	778	778	778	768	725	655	721	755	738	610	666	755	778	777	770	774	778	779	783	783	753	
25	779	780	797	823	797	779	790	768	772	759	754	768	767	772	783	789	786	779	779	781	780	786	786	782	781	
26	783	783	783	783	786	786	790	745	687	716	765	778	783	783	783	783	779	774	774	775	779	783	783	783	773	
27	790	833	839	812	810	812	723	790	661	734	741	739	739	745	783	783	768	768	778	797	794	789	799	801	776	
28	831	831	811	817	829	812	790	787	783	778	768	759	778	778	778	778	778	774	774	774	783	783	786	786	789	
29	789	789	797	808	807	819	812	794	797	794	788	779	772	773	774	779	777	767	769	772	778	792	800	810	789	
30	794	786	786	784	784	786	783	774	774	750	752	779	767	778	772	777	778	778	778	778	782	789	789	789	778	
31	799	835	811	789	794	778	700	778	794	790	790	793	793	793	793	793	793	783	783	783	783	783	783	783	787	
Mean	791	797	789	779	777	770	743	734	721	714	705	727	734	741	751	751	763	767	776	780	786	789	792	795	761	



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40 Meanook

October 1953

Day	Horizontal Intensity						Declination						Vertical Intensity						
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum			
	12,000 $\gamma$ +		$\gamma$	12,000 $\gamma$ +		$\gamma$	24° East +		$\gamma$	24° East +		$\gamma$	58,000 $\gamma$ +		$\gamma$	58,000 $\gamma$ +		$\gamma$	
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	
1	03	50	1106	13	03	729	03	35	56.4	12	42	19.2	04	42	859	12	48	557	302
2	02	46	916	17	14	847	13	25	42.3	18	40	27.3	22	17	790	11	45	709	91
3	13	35	839	11	30	745	05	07	55.1	11	25	28.5	05	02	826	11	55	639	187
4	14	23	910	17	55	866	16	28	42.8	21	25	30.1	04	21	789	14	25	758	31
5 Q	07	00	912	10	15	862	15	35	42.1	10	17	29.0	06	40	774	10	15	739	35
6 Q	21	32	916	17	59	867	06	20	43.8	06	50	29.1	01	05	778	06	52	739	39
7	14	32	921	08	41	642	07	45	84.6	08	41	19.1	23	57	789	07	45	506	283
8	06	36	934	21	58	830	06	56	44.0	00	40	26.1	04	58	836	14	40	742	94
9	07	05	1020	06	48	848	05	26	59.7	22	00	29.4	07	07	850	06	31	709	141
10	22	06	918	20	15	825	17	32	44.9	20	37	22.0	01	40	817	14	40	745	72
11	16	01	913	13	14	775	15	02	45.7	13	27	23.9	16	03	784	13	15	674	110
12 Q	06	01	909	20	05	838	16	20	43.8	20	45	23.9	05	45	789	21	15	753	36
13 Q	01	55	901	18	22	851	14	55	44.4	20	25	29.7	01	10	780	11	37	749	31
14 Q	02	19	902	17	55	862	05	32	50.5	20	30	29.6	05	32	786	06	00	753	33
15 D	23	59	1035	14	24	253	14	45	70.6	15	07	27.4	23	42	923	15	15	353	570
16 D	00	30	1248	06	00	197	03	55	69.2	06	37	01.8	23	27	973	06	16	440	533
17	22	14	1010	08	33	-108							21	05	896	08	32	348	548
18 D	23	19	1258	13	18	-112							13	50	1217	10	31	120	1097
19 D	01	30	1122	09	07	-429							08	55	1186	06	59	-131	1317
20 D	03	36	1050	11	57	174							21	55	895	08	10	348	547
21	15	24	925	08	45	-26							00	51	828	08	56	54	774
22	04	44	926	06	36	636	03	43	83.4	06	30	34.9	03	22	839	06	23	376	463
23	04	55	1093	07	00	569	05	00	61.2	07	05	04.3	01	52	852	05	09	538	314
24	15	51	916	13	35	581	09	27	48.4	13	37	03.8	22	03	792	14	00	496	296
25	04	21	935	09	55	846	04	35	86.7	10	02	26.9	04	18	857	04	45	705	152
26	07	15	924	08	30	829	07	07	46.8	20	08	27.2	06	08	794	08	30	656	138
27	05	56	971	08	20	313	06	40	70.3	08	40	10.6	02	17	849	08	31	526	323
28	02	43	902	17	00	846	15	53	43.4	19	30	28.6	01	14	851	11	04	742	109
29	20	53	930	17	40	856	04	17	47.3	21	28	24.6	05	58	839	12	22	761	78
30	11	33	915	09	50	853	12	37	42.4	00	05	25.0	00	00	811	09	50	710	101
31	06	12	971	06	30	830	05	57	78.5	06	20	07.1	01	43	849	06	23	597	252
Mean			973			597			55.7			17.0			855			562	293
No. days			31			31			26			26			31			31	31

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

Table 41 Meanook

H = 12,000  $\gamma$  +

November 1953

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	891	891	886	889	887	885	893	888	889	888	861	877	901	897	893	896	890	884	866	870	874	874	888	880	885	
2 Q	889	895	893	890	890	886	890	890	894	889	880	890	889	889	894	894	886	877	877	877	879	885	890	891	888	
3	893	894	893	893	892	890	893	889	892	894	894	890	881	880	888	896	893	880	875	881	882	886	889	891	889	
4	890	890	896	891	891	889	886	893	893	891	881	899	897	896	896	893	888	882	875	877	883	886	883	883	889	
5	889	888	897	950	944	963	874	736	633	569	525	430	529	819	877	890	899	897	880	877	877	882	886	889	812	
6	890	884	882	886	884	882	877	819	874	890	903	893	890	877	873	888	894	881	877	877	885	886	893	894	882	
7	894	895	893	889	884	893	893	885	879	877	886	875	897	894	890	889	888	882	878	882	881	889	893	893	887	
8	901	897	889	891	888	882	885	879	869	888	889	861	866	897	897	897	893	883	881	881	886	893	897	889	887	
9 Q	882	897	897	904	897	897	901	901	897	895	897	893	896	896	897	890	882	874	871	875	877	882	885	888	890	
10 Q	893	893	896	896	897	897	893	893	893	893	893	893	896	896	897	893	886	881	882	886	891	894	897	897	893	
11	899	899	899	899	899	897	894	894	894	894	896	896	893	890	897	900	896	886	873	873	873	876	888	889	891	
12	873	885	888	890	890	890	889	882	881	849	791	803	877	869	896	901	901	888	858	874	874	874	902	897	876	
13 D	908	908	904	952	913	713	724	749	620	720	537	505	486	747	916	902	880	885	846	866	869	869	892	877	800	
14 D	889	908	895	890	905	886	712	767	736	615	727	696	437	822	916	900	877	877	803	836	883	890	877	880	818	
15 D	888	892	889	889	881	897	756	670	713	685	748	461	594	709	723	764	882	888	839	865	861	883	888	897	798	
16 D	893	890	893	908	921	882	908	780	677	745	812	819	839	885	891	873	838	803	845	897	874	877	881	889	855	
17	900	890	878	890	888	897	884	886	874	885	873	792	875	888	901	889	857	847	845	873	879	864	879	893	876	
18	897	897	899	888	913	919	869	893	869	853	621	793	885	893	885	871	880	874	877	869	873	881	880	894	870	
19 D	872	886	927	944	896	881	846	707	764	883	665	793	728	435	803	901	888	896	883	883	848	849	893	904	832	
20	901	895	924	898	898	896	883	844	556	790	863	879	871	867	867	810	861	882	865	877	870	897	878	885	861	
21	916	899	887	887	887	877	882	846	801	725	644	775	872	893	901	901	892	881	873	865	861	872	883	892	859	
22	891	888	892	892	892	889	879	886	885	877	890	887	882	889	896	896	890	884	888	874	867	881	884	884	886	
23	888	895	893	886	878	878	880	831	722	534	528	789	813	886	905	902	886	885	889	876	864	880	884	881	840	
24	901	903	905	894	893	929	892	892	874	868	836	859	892	887	885	876	860	866	884	883	885	884	890	892	885	
25	890	892	897	894	885	910	907	890	880	886	880	862	847	887	887	885	880	877	880	874	874	880	880	892	884	
26	888	889	894	900	893	893	894	900	888	887	887	887	887	887	887	882	882	879	876	876	878	878	884	885	887	
27	892	893	884	889	886	885	891	838	882	878	871	879	871	890	892	878	878	872	879	884	885	888	888	883	882	
28 Q	890	892	891	896	896	896	903	896	892	892	892	892	892	892	892	892	887	879	876	878	885	885	883	884	890	
29	896	896	883	884	888	889	884	886	885	864	853	892	888	892	890	889	887	887	885	885	885	888	892	893	886	
30 Q	893	893	893	893	893	893	892	892	892	892	892	892	894	898	895	895	892	893	892	889	889	889	889	893	896	893
31																										
Mean	893	894	895	898	895	889	872	850	827	826	807	815	826	858	884	884	883	878	870	876	876	881	887	889	869	

DECLINATION  
Mean values for periods of sixty minutes; Universal Time

Table 42 Meanook

D = 24° E + ...'

November 1953

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	33.4	33.6	34.1	33.6	34.1	34.6	38.1	34.6	34.1	35.0	30.1	32.6	35.5	37.1	38.1	38.5	37.0	35.0	32.1	29.8	28.2	30.2	32.1	33.1	33.9	
2 Q	34.1	35.0	35.0	34.9	34.2	35.0	46.0	35.2	34.9	34.8	33.1	37.0	36.2	35.0	38.1	40.0	38.7	36.7	34.1	32.2	31.3	31.2	33.0	33.1	35.4	
3	34.1	34.1	34.1	34.1	34.5	34.2	34.2	34.2	35.2	34.2	34.2	35.0	35.0	35.0	37.0	38.1	39.8	38.0	33.2	33.0	32.0	32.0	31.6	31.1	34.5	
4	32.1	35.1	36.1	35.0	34.8	34.6	36.5	35.4	33.9	34.2	29.5	34.9	36.0	36.0	37.0	38.0	38.5	38.9	37.1	34.6	33.2	32.5	32.2	30.2	34.8	
5	28.6	29.1	30.0	29.6	36.1	38.5	39.1	33.6	43.7	47.0	53.1	38.1	38.5	30.1	41.4	31.6	33.9	32.1	31.6	33.1	33.2	33.9	34.6	34.1	35.6	
6	34.0	33.2	34.0	34.5	34.0	33.5	34.8	31.0	30.1	34.1	34.8	35.9	35.8	36.9	34.1	39.0	39.6	36.9	34.0	32.0	31.0	32.7	33.0	34.9	34.3	
7	34.5	34.7	35.0	34.5	34.0	35.3	34.9	32.5	33.0	34.7	35.0	34.1	37.9	36.5	36.9	38.0	38.9	37.0	33.9	33.2	32.0	32.0	32.6	34.0	34.8	
8	34.9	35.8	35.9	35.9	34.9	35.9	34.9	33.1	35.4	40.8	35.9	32.1	35.9	40.8	39.9	40.7	39.9	36.9	35.4	34.0	33.0	32.5	30.5	30.9	35.7	
9 Q	33.0	34.9	35.8	35.8	35.9	41.7	39.9	34.1	34.2	34.9	35.8	36.4	36.4	37.9	37.9	38.0	39.0	38.8	37.6	34.5	33.7	33.5	33.6	33.5	36.1	
10 Q	34.0	34.5	34.9	34.9	35.0	35.0	34.8	35.7	35.2	35.5	35.3	35.8	36.7	36.7	36.9	38.8	39.8	38.8	37.2	35.8	34.7	33.9	33.9	33.9	35.7	
11	34.7	34.9	35.8	35.8	35.8	35.3	35.2	35.7	36.3	36.7	36.3	36.2	37.8	36.9	33.9	37.2	38.2	37.9	34.8	29.6	28.9	29.9	30.9	31.9	34.9	
12	33.9	31.8	34.8	35.8	35.0	34.8	34.8	35.0	40.7	40.8	34.4	42.7	45.7	46.6	39.9	41.2	36.8	36.8	30.9	30.8	29.0	30.0	33.4	34.1	36.2	
13 D	34.0	34.8	42.8	53.0	44.2	40.3	21.1	49.2	28.1	31.0	34.8	35.3	17.1	11.3	42.9	40.3	36.2	37.3	28.9	32.4	32.9	31.4	37.3	32.9	34.6	
14 D	36.8	38.8	38.8	60.4	46.2	41.7	25.0	33.9	44.7	27.0	28.0	32.8	19.1	33.9	36.8	38.8	36.8	28.0	28.1	28.1	30.4	30.4	34.4	35.3	34.8	
15 D	36.7	36.8	36.7	36.3	73.7	55.5	57.5	35.0	43.6	27.5	35.9	24.6	23.6	24.0	34.1	22.1	20.6	20.6	30.8	31.4	28.8	31.9	34.9	36.8	35.0	
16 D	35.6	35.7	52.0	53.5	41.1	40.6	40.7	34.5	23.4	30.3	34.8	30.7	35.2	35.7	35.7	33.9	33.9	27.0	19.5	31.1	30.8	33.8	37.3	41.0	35.3	
17	36.2	36.4	55.9	37.3	36.2	37.1	32.1	37.2	34.2	35.2	36.3	31.0	38.1	40.1	36.2	36.8	36.8	31.6	26.4	32.1	33.8	34.3	39.1	35.1	36.1	
18	34.8	39.5	40.9	52.0	44.0	36.2	30.3	35.0	33.2	31.1	20.4	23.2	35.5	39.2	37.6	36.2	35.8	32.1	35.7	32.2	33.1	34.2	34.2	36.0	35.1	
19 D	37.7	40.8	40.2	50.1	44.7	43.3	38.4	32.9	38.2	36.0	24.8	31.4	46.3	34.2	27.9	39.9	38.4	38.8	33.5	33.7	31.8	30.2	31.9	33.0	36.6	
20	34.9	36.0	39.1	37.4	36.1	54.8	33.1	34.6	17.1	32.9	32.2	36.5	36.6	34.1	33.6	26.7	25.7	34.5	32.7	33.0	33.0	37.0	33.9	32.9	34.1	
21	40.7	37.0	36.4	36.3	35.9	36.7	37.8	37.8	37.5	31.8	20.3	30.3	44.4	36.3	37.8	39.6	39.8	37.3	34.7	32.0	28.1	28.2	31.9	35.7	35.2	
22	35.0	36.2	37.1	36.6	36.2	36.8	36.9	37.6	33.9	33.2	34.6	36.4	37.7	36.1	36.9	37.8	39.6	37.4	35.5	31.8	30.9	32.1	31.7	34.5	35.5	
23	35.5	36.5	36.5	36.5	36.9	37.7	37.6	30.9	38.0	34.7	38.6	41.6	39.7	46.3	42.6	44.6	38.7	37.7	31.5	30.3	29.8	28.0	30.8	32.5	36.4	
24	35.9	38.6	37.3	37.3	37.9	53.6	38.4	36.4	34.9	33.5	30.3	31.0	36.7	36.8	36.2	38.8	36.5	30.6	30.9	30.7	31.7	31.7	33.3	31.8	35.4	
25	34.6	34.6	35.2	35.3	37.7	44.2	31.6	32.5	33.8	33.9	35.4	33.9	37.8	40.5	40.6	40.4	39.3	36.6	34.5	32.5	31.1	32.0	30.7	31.0	35.4	
26	34.5	33.8	37.4	35.8	36.6	35.1	36.7	34.6	34.0	34.6	36.4	36.3	35.6	36.1	36.5	37.0	38.5	36.7	34.5	32.7	31.8	32.7	31.9	32.4	35.1	
27	33.6	34.5	36.7	35.8	36.5	38.2	36.7	27.4	34.6	34.8	33.7	36.4	31.5	36.5	37.5	38.6	38.5	35.4	32.1	29.7	30.6	31.5	32.9	32.9	34.4	
28 Q	34.7	34.9	35.4	36.3	36.2	36.4	37.0	33.8	33.5	33.7	34.2	35.0	35.3	36.9	36.3	36.7	37.4	36.6	35.5	33.9	32.5	32.7	32.4	31.6	35.0	
29	32.0	32.5	32.6	35.4	34.9	36.4	36.6	37.1	36.5	33.7	28.9	35.5	35.6	35.5	35.7	36.5	36.5	36.2	33.5	33.5	33.5	33.5	33.3	33.2	34.5	
30 Q	33.5	34.1	33.0	34.3	34.5	34.5	34.5	34.7	34.4	35.1	35.4	35.4	35.4	35.2	35.1	35.5	36.4	36.3	34.6	33.6	34.1	32.4	33.5	33.8	34.6	
31																										
Mean	34.6	35.3	37.3	38.5	38.3	38.9	36.2	34.8	34.7	34.4	33.4	34.3	35.6	35.8	37.0	37.3	36.8	35.2	32.8	32.3	31.6	32.1	33.2	33.6	35.2	

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

Table 43 Meanook

$Z = 58,000 \gamma +$

November 1953

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	780	780	780	780	783	786	768	777	775	774	757	747	780	778	778	778	778	778	783	790	789	786	792	788	779
2 Q	787	789	786	786	789	797	777	786	779	778	745	761	777	773	778	778	779	778	772	772	772	772	773	773	777
3	780	779	779	779	779	779	778	777	775	774	774	774	772	768	757	751	765	765	768	773	773	779	781	781	773
4	783	788	789	791	789	789	783	757	748	757	763	774	774	775	775	777	777	777	774	778	778	778	778	781	776
5	789	811	848	890	906	835	789	700	713	652	721	655	755	677	666	721	754	758	761	767	771	775	779	779	761
6	790	793	789	789	786	786	786	701	656	730	772	772	768	758	772	757	757	761	772	772	773	779	777	779	766
7	780	782	780	783	800	806	793	777	768	754	768	754	783	778	780	784	779	769	771	770	772	773	774	774	777
8	774	774	774	774	774	778	774	758	711	733	755	754	735	754	762	757	757	759	773	773	773	773	777	778	763
9 Q	779	774	774	781	792	783	783	771	772	772	772	772	772	772	772	774	774	774	774	774	774	774	774	774	775
10 Q	774	774	774	774	774	774	773	772	772	772	771	771	768	768	768	767	767	767	768	768	768	768	768	768	770
11	768	768	768	768	768	768	768	767	765	767	767	767	767	758	763	757	761	757	763	764	768	763	770	783	766
12	801	831	812	788	778	773	768	768	734	687	646	629	690	656	728	747	768	777	761	774	783	786	801	790	753
13 D	839	833	875	878	845	638	532	634	555	632	538	588	479	511	722	767	761	800	780	783	806	810	812	788	717
14 D	783	797	813	809	808	747	544	615	638	616	618	639	364	681	755	767	765	774	790	810	845	812	812	791	725
15 D	789	779	777	779	779	757	743	594	510	588	554	555	473	513	661	707	793	765	790	817	779	779	793	788	703
16 D	789	800	850	847	835	700	757	745	723	623	712	744	762	778	780	767	755	767	792	800	790	799	812	822	773
17	803	806	823	799	794	778	755	773	761	775	771	695	718	755	784	787	760	773	781	789	794	811	828	807	780
18	797	807	806	817	825	823	758	780	764	734	550	662	750	761	772	768	783	778	791	796	798	789	789	804	771
19 D	802	816	829	791	803	794	765	724	692	697	646	692	663	583	683	771	762	772	774	783	794	791	806	792	751
20	794	792	867	806	794	765	745	724	581	685	731	758	767	763	762	735	761	759	778	782	808	847	822	819	769
21	833	806	792	786	783	783	762	705	650	604	568	672	711	683	783	784	784	784	778	794	793	788	791	792	750
22	794	794	791	789	789	786	783	769	768	767	781	781	774	782	780	783	782	780	783	783	781	782	788	783	782
23	783	783	783	783	783	792	777	699	592	433	486	783	786	790	781	786	780	783	772	774	789	809	808	817	748
24	828	800	794	800	809	772	778	789	778	763	725	739	778	779	778	778	768	761	768	775	783	787	783	788	779
25	786	768	784	790	810	833	800	781	772	772	767	754	705	759	775	786	789	778	780	779	779	782	786	802	781
26	803	808	829	816	803	800	803	790	790	788	786	781	784	784	784	783	781	779	778	778	778	781	789	785	791
27	790	792	801	804	806	806	802	684	756	773	760	773	777	780	793	787	785	790	784	785	785	790	795	795	783
28 Q	802	803	803	805	805	805	809	807	802	791	791	791	791	791	791	791	791	791	791	791	791	791	791	791	796
29	787	816	831	831	814	814	811	808	795	767	747	786	799	797	798	798	800	796	797	797	797	797	797	797	799
30 Q	803	803	803	803	803	803	803	803	801	799	800	800	800	800	803	804	804	804	800	800	800	802	803	803	802
31																									
Mean	793	795	803	801	800	782	762	744	723	719	711	731	727	737	763	770	774	775	778	783	786	788	792	790	768

MEANOOK MAGNETIC OBSERVATORY 1953 1954

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44 Meanook

November 1953

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum					
	12,000 $\gamma$ +			12,000 $\gamma$ +			24° East +			24° East +			58,000 $\gamma$ +			58,000 $\gamma$ +					
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$			
1	11	56	913	10	40	824	06	12	44.3	10	45	24.5	19.8	22	43	806	10	57	703	103	
2 Q	06	10	908	17	24	868	06	12	56.5	10	25	29.3	27.2	06	03	817	10	42	724	93	
3	23	25	940	13	37	862	16	00	42.4	20	45	29.5	12.9	23	10	784	15	15	742	42	
4	07	15	901	10	16	865	07	02	39.5	10	32	26.5	13.0	02	03	802	08	30	736	66	
5	05	25	886	11	06	287	09	50	82.5	03	38	17.7	64.8	04	47	938	09	45	505	433	
6	08	09	932	07	43	705	15	42	42.3	07	42	17.7	24.6	14	07	794	07	45	570	224	
7	07	02	910	11	15	861	12	15	41.3	21	00	31.5	09.8	05	05	827	09	10	736	91	
8	14	49	908	11	40	838	13	30	43.3	07	50	25.8	17.5	05	35	783	08	35	579	204	
9 Q	06	15	920	17	53	869	05	20	48.9	00	01	31.5	17.4	05	50	806	05	38	768	38	
10 Q	04	23	901	17	50	877	16	32	41.8	21	00	33.3	08.5	08	05	777	16	32	761	16	
11	14	23	909	13	54	861	13	32	41.3	19	58	25.0	16.3	23	10	790	13	56	736	54	
12	22	34	929	10	21	748	13	20	51.8	19	22	25.5	26.3	01	35	847	13	00	597	250	
13 D	03	24	994	13	00	176	05	48	100.4	05	58	34.6	135.0	03	08	938	06	00	211	727	
14 D	03	09	1027	12	25	279	03	55	82.1	12	05	-8.8	90.9	03	08	917	06	17	360	557	
15 D	04	55	958	11	03	255	06	30	80.3	12	10	02.7	77.6	16	20	841	13	04	340	501	
16 D	05	00	1106	08	35	515	05	05	91.3	05	42	-1.5	92.8	02	34	920	09	52	574	346	
17	05	55	938	11	49	708	02	20	70.7	06	08	12.4	58.3	02	12	862	11	47	607	255	
18	04	20	948	10	55	468	03	42	61.6	10	30	07.1	54.5	03	20	860	10	50	437	423	
19 D	02	57	1081	13	16	340	03	00	78.4	14	00	-9.0	87.4	03	00	917	13	53	499	418	
20	02	40	1002	08	10	435	05	40	73.7	08	12	03.2	70.5	02	42	939	08	05	471	468	
21	00	27	937	10	42	522	00	50	50.7	10	50	11.1	39.6	00	28	866	10	42	498	368	
22	21	07	947	20	52	811	07	10	44.8	20	15	28.9	15.9	13	35	797	07	32	744	53	
23	05	50	1048	10	25	810	10	28	73.6	09	08	-1.7	75.3	11	45	846	10	25	354	492	
24	15	54	944	10	28	305	05	50	68.8	11	05	26.0	42.8	04	53	846	10	37	696	150	
25	05	15	936	12	26	813	123	05	10	56.2	20	32	23.7	32.5	05	17	868	12	30	661	207
26	07	08	915	01	56	853	02	28	41.3	20	40	29.7	11.6	02	43	844	07	44	774	70	
27	06	54	975	07	17	774	06	52	50.2	07	12	06.1	44.1	06	55	847	07	12	607	240	
28 Q	06	22	909	18	31	868	06	10	44.3	23	30	29.7	14.6	06	00	813	00	00	797	16	
29	00	57	907	10	25	837	08	00	41.3	10	30	23.8	17.5	02	55	853	10	15	730	123	
30 Q	17	05	907	17	03	876	17	02	39.4	02	08	31.6	07.8	16	20	808	09	35	792	16	
31																					
Mean			948			670			278			57.5				845			610	235	
No. days			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 1953

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	896	896	893	892	892	892	889	893	891	891	893	896	896	895	896	892	892	888	884	887	892	893	896	898	893
2 Q	900	901	901	896	892	884	881	889	889	885	892	893	896	900	900	893	893	889	885	885	885	885	890	893	892
3	898	900	889	889	891	892	891	893	891	888	885	867	882	891	900	903	902	896	892	892	892	900	901	899	893
4	883	893	901	900	900	892	896	887	891	890	887	893	898	896	896	895	888	880	884	892	893	892	898	893	892
5	889	890	885	892	896	892	885	884	885	883	885	889	889	889	887	884	880	876	883	890	892	893	898	900	888
6	907	901	899	896	896	896	896	896	893	893	896	892	872	853	881	896	896	892	888	888	892	888	896	901	892
7	896	896	881	895	900	896	895	892	880	881	872	881	891	891	892	889	883	877	878	878	882	889	885	893	887
8	896	900	900	893	892	893	899	892	893	896	895	896	898	896	888	878	887	890	883	880	884	885	888	894	892
9	889	900	901	901	899	893	890	886	882	882	886	890	891	886	891	890	892	874	871	869	860	883	892	896	887
10	899	899	892	892	893	892	890	893	885	866	855	885	892	890	889	890	890	885	888	892	895	896	893	895	889
11 D	890	893	900	906	910	909	892	889	874	772	532	770	782	486	817	920	889	858	833	859	862	911	896	900	840
12 D	915	906	906	909	885	917	770	759	807	809	882	821	810	874	877	856	896	871	872	863	870	892	892	872	864
13 D	889	889	892	890	885	885	884	878	864	809	833	862	842	860	889	896	893	888	872	856	868	869	884	890	874
14	892	890	891	884	881	880	884	880	872	865	878	884	884	877	890	892	888	880	880	878	873	880	888	888	882
15	892	892	892	891	890	887	878	877	903	889	889	885	884	885	894	893	889	881	881	868	862	862	875	884	884
16	893	889	880	887	887	887	884	881	817	860	878	889	896	896	896	896	889	886	887	887	896	896	896	900	886
17	903	896	900	896	896	903	890	892	888	889	889	895	895	895	884	900	893	895	892	891	890	885	885	900	893
18	903	900	897	895	895	889	893	892	889	889	885	890	896	896	888	896	903	893	884	885	889	892	896	896	893
19	900	896	896	895	896	896	887	892	888	895	895	889	895	900	897	903	895	878	873	892	896	895	896	900	894
20	896	899	896	893	893	896	904	895	892	891	890	890	889	887	895	896	902	889	878	888	895	893	894	896	893
21	900	896	896	889	891	888	889	883	883	885	884	892	896	890	895	894	891	888	888	889	892	893	890	889	890
22 D	901	907	907	907	896	873	887	889	887	888	889	892	893	889	889	895	892	895	885	868	871	876	887	900	890
23 Q	900	892	888	888	887	886	885	888	888	887	888	889	889	889	880	888	896	889	864	873	888	891	895	900	888
24	900	904	903	904	903	907	887	872	873	860	868	870	896	895	889	887	881	880	876	880	887	896	896	896	888
25	894	896	896	896	895	895	892	890	887	882	884	885	880	889	895	896	889	884	887	891	892	895	885	896	890
26	907	907	900	894	893	891	889	889	889	889	893	894	896	896	896	896	892	889	890	891	896	876	884	895	892
27	902	899	896	896	893	892	886	881	887	888	890	890	892	892	893	889	888	892	893	886	889	893	887	896	891
28	903	901	893	893	896	893	888	887	886	881	884	887	887	881	889	896	889	883	876	871	883	894	903	901	889
29 D	888	893	899	896	896	894	896	896	892	892	895	896	891	888	896	906	900	886	880	878	889	896	885	881	892
30 Q	896	896	892	896	892	888	881	881	884	892	884	886	887	900	904	900	896	889	875	878	884	896	896	900	891
31 Q	902	903	900	889	892	889	872	890	892	884	888	895	896	896	896	896	889	884	876	876	879	889	896	900	890
Mean	897	897	896	895	894	892	885	883	881	876	872	882	883	876	889	894	892	885	880	881	884	889	892	895	887



**DECLINATION**  
Mean values for periods of sixty minutes, Universal Time

Table 46 Meanook

D = 24° E + ...'

December 1953

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	33.5	33.9	34.4	35.0	34.9	35.0	34.8	34.9	33.9	33.6	33.6	34.0	34.6	34.9	35.8	35.9	36.0	35.9	34.4	36.4	31.7	31.8	31.9	31.7	34.3	
2 Q	32.6	33.8	34.8	34.2	34.5	34.7	34.9	33.9	33.9	33.4	34.4	35.5	36.3	35.5	35.1	35.5	35.9	32.9	32.9	32.8	32.9	32.9	32.9	32.9	34.1	
3	33.5	34.3	34.8	34.4	34.8	34.8	34.8	34.3	33.0	33.8	33.5	33.8	38.8	40.8	35.9	37.8	35.4	33.0	31.4	30.9	32.4	32.9	31.9	31.9	34.3	
4	30.8	31.8	32.3	33.7	34.7	34.7	33.7	33.7	34.7	34.7	35.7	34.7	35.7	35.7	35.2	35.3	36.7	37.6	31.3	29.9	31.3	31.4	32.2	31.9	33.7	
5	33.3	32.7	33.5	34.6	35.6	35.1	34.5	35.5	35.6	34.6	34.6	35.2	34.6	35.1	35.6	35.7	35.6	35.1	33.7	32.7	31.9	32.2	32.2	32.2	34.2	
6	32.6	33.6	34.5	34.1	32.7	34.1	34.5	34.6	34.5	33.6	34.1	37.6	36.6	34.6	35.6	39.5	35.5	34.3	33.2	32.2	31.6	31.6	31.2	32.4	34.1	
7	33.2	32.6	33.2	34.4	35.5	35.4	36.5	36.4	32.6	33.9	35.0	36.0	35.5	36.0	36.0	36.0	36.0	35.0	33.1	33.2	32.8	31.2	31.6	32.7	34.3	
8	33.9	33.9	33.4	33.5	36.5	34.4	34.5	35.5	34.3	32.0	33.5	33.4	33.5	34.5	35.4	34.0	34.9	34.5	32.4	30.5	31.0	31.0	31.0	30.0	33.4	
9	27.5	31.6	34.3	35.3	34.8	34.3	34.3	34.3	34.6	31.3	33.1	34.2	35.4	34.8	34.8	36.2	35.3	33.8	29.4	28.5	26.0	26.0	29.3	29.9	32.5	
10	30.8	32.3	34.0	34.2	34.1	37.8	34.1	31.4	38.9	22.9	34.1	36.2	37.1	36.3	37.0	36.9	35.3	32.3	31.3	29.3	31.3	32.3	30.8	33.5		
11 D	33.1	34.1	34.1	33.1	44.3	46.4	37.1	35.7	35.0	32.9	11.5	44.3	56.3	26.3	36.0	39.0	34.3	31.7	23.8	29.2	31.7	31.7	31.2	28.3	34.2	
12 D	37.0	35.1	33.5	38.8	38.9	49.7	39.9	21.7	26.3	24.2	33.0	35.1	30.1	34.9	33.2	30.1	34.1	30.1	25.3	26.2	26.2	31.1	32.1	38.9	32.7	
13 D	36.5	33.9	33.9	34.0	38.8	40.8	36.9	32.9	29.1	24.2	23.2	33.9	35.1	33.9	35.4	36.9	35.5	32.9	30.5	28.0	29.0	26.0	28.9	32.0	32.6	
14	33.0	33.9	34.4	34.8	35.0	33.9	33.9	33.8	30.1	31.7	33.4	34.8	34.9	32.9	33.9	34.9	34.9	33.9	31.7	31.0	28.4	28.2	31.0	33.0	33.0	
15	33.5	33.8	33.8	33.8	34.3	34.1	34.3	39.2	35.7	33.1	32.7	34.8	33.8	32.8	33.8	35.8	36.3	36.8	34.8	31.9	28.0	27.9	28.0	32.7	33.6	
16	34.8	34.8	35.0	35.8	34.9	34.9	35.3	35.7	24.9	32.0	36.5	34.9	34.5	33.7	33.9	34.3	34.8	33.7	31.9	31.9	30.9	30.6	30.0	32.4	33.4	
17	33.8	34.5	34.5	34.8	34.3	33.3	35.8	35.3	33.7	33.7	33.3	33.3	33.7	33.8	31.4	35.8	34.9	33.8	32.9	32.9	31.9	30.9	30.1	32.8	33.6	
18	33.0	33.8	33.7	34.8	34.9	33.9	33.3	34.0	33.8	33.8	33.7	34.4	34.3	33.4	33.8	33.7	34.8	32.8	29.9	30.4	30.9	30.9	31.9	32.9	33.2	
19	32.8	33.0	33.8	34.4	34.3	33.9	35.3	30.9	32.5	32.6	33.4	33.8	32.1	34.7	34.9	35.8	34.9	32.8	28.4	26.9	25.7	26.9	29.4	32.0	32.3	
20	33.7	33.8	34.2	33.9	33.7	32.5	32.8	30.4	31.4	32.0	33.9	35.4	34.8	34.8	35.7	34.3	30.4	29.0	31.0	29.8	29.0	30.4	31.4	32.4	32.5	
21	33.4	33.7	33.7	34.6	32.8	33.8	32.8	32.8	33.7	34.2	32.7	34.7	34.8	34.6	34.7	34.7	34.6	33.8	31.3	31.3	29.8	29.8	30.3	32.2	33.1	
22 D	34.2	34.7	34.8	35.2	34.4	46.0	33.8	31.9	30.4	32.7	33.2	33.6	33.7	33.7	34.2	35.7	34.7	29.9	34.6	34.1	26.2	26.3	29.9	32.7	33.4	
23 Q	33.2	34.7	34.6	34.7	34.2	34.2	33.7	33.7	33.2	32.7	33.7	33.7	33.8	33.6	35.7	36.7	33.7	36.6	26.9	26.9	26.7	29.5	30.3	32.9		
24	30.8	30.7	34.3	37.5	32.6	33.6	31.2	34.6	33.9	29.2	30.7	30.2	33.7	34.6	34.8	35.6	36.1	35.5	34.1	30.2	29.2	30.6	30.6	32.1	32.8	
25	32.7	33.5	34.1	33.9	34.8	33.7	37.7	32.5	32.7	32.5	35.7	35.1	36.5	36.3	37.2	37.1	36.5	33.6	31.2	29.7	27.7	28.7	29.8	28.2	33.4	
26	31.2	33.6	34.7	35.6	35.1	34.1	33.6	33.5	32.7	33.1	33.6	33.7	33.7	34.6	34.6	35.5	35.6	34.6	33.3	31.7	30.2	30.2	27.7	28.9	33.1	
27	32.6	33.7	34.6	34.6	34.6	34.6	35.7	33.7	34.6	35.6	34.2	32.7	32.8	32.7	33.9	35.1	35.6	37.6	35.7	29.3	28.7	28.2	30.7	30.6	33.4	
28	30.6	30.6	33.4	35.4	34.0	33.5	33.5	33.5	33.5	34.0	34.5	32.4	37.0	37.5	33.4	47.2	46.5	34.0	32.5	28.6	29.2	30.7	32.4	32.1	34.2	
29 D	33.4	34.0	34.0	33.6	33.5	32.6	32.9	32.5	31.7	32.7	33.2	33.5	34.5	31.6	33.6	48.4	47.1	33.5	29.7	27.7	29.7	29.2	29.2	29.2	33.4	
30 Q	32.6	33.5	34.4	34.9	33.5	34.4	34.6	34.7	36.5	35.5	36.2	35.4	33.9	34.2	33.9	35.4	36.4	35.8	32.5	29.7	29.4	30.6	31.1	32.4	33.8	
31 Q	33.2	33.4	34.4	34.4	33.6	34.0	30.0	35.6	35.5	35.6	34.4	33.5	32.7	33.0	34.0	34.9	37.0	36.9	36.4	33.3	31.1	30.8	30.0	30.1	33.7	
Mean	32.9	33.5	34.1	34.7	35.0	35.6	34.7	33.7	32.9	32.8	32.5	34.6	35.3	34.4	34.7	36.4	36.1	34.0	32.0	30.6	29.7	30.0	30.7	31.7	33.4	



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

Table 47 Meanook

$Z = 58,000 \gamma +$

December 1953

Day	Hour U. T.	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	799	799	799	808	805	810	810	806	804	799	804	799	798	798	798	799	799	805	803	803	803	803	803	803	802	802
2	Q	803	803	803	803	804	803	782	794	798	788	798	800	799	799	799	799	799	799	799	799	799	799	799	799	799	799
3		799	802	805	810	808	821	815	809	808	799	791	753	756	764	772	781	786	786	793	795	798	799	803	804	804	794
4		814	828	817	809	814	821	821	818	811	805	803	800	798	796	798	798	798	798	801	802	804	803	804	804	804	807
5		813	825	851	842	827	817	811	811	804	799	798	799	803	803	803	803	803	803	803	804	803	803	803	803	803	810
6		803	803	803	803	803	803	803	802	802	809	805	791	775	745	756	781	786	798	809	809	809	809	809	814	814	797
7		809	814	825	832	824	821	820	812	803	786	786	786	810	810	810	809	799	798	801	801	801	801	801	801	802	807
8		802	802	802	809	814	809	808	814	810	810	809	804	802	802	798	793	792	790	796	799	803	803	803	812	804	
9		824	814	809	808	803	803	803	799	799	791	792	803	798	794	798	804	798	792	798	799	805	804	809	809	802	
10		803	803	803	803	803	803	799	776	761	744	704	779	798	792	805	801	799	798	801	801	801	801	801	801	801	791
11	D	803	803	804	825	840	803	804	805	769	703	536	649	654	619	707	786	772	780	783	810	828	870	835	839	768	
12	D	849	820	825	857	831	812	723	664	727	751	805	759	703	751	753	765	809	792	823	821	805	820	820	834	788	
13	D	837	818	813	815	820	802	803	795	767	725	745	761	747	747	781	798	798	798	803	809	828	814	809	809	793	
14		805	805	805	814	811	810	808	800	747	722	764	792	789	803	803	802	798	798	801	801	801	808	806	804	796	
15		803	803	803	803	803	803	802	784	798	798	799	798	795	798	803	805	799	796	803	803	803	815	820	813	802	
16		814	814	813	811	806	803	803	793	701	703	770	786	799	802	801	801	799	798	798	798	798	799	799	799	799	792
17		801	799	802	803	803	801	809	799	795	798	798	798	799	798	792	800	798	798	801	801	801	802	803	803	800	
18		804	810	805	804	803	803	802	799	799	799	793	792	792	786	786	783	779	786	792	798	796	798	802	798	796	
19		802	801	799	801	802	802	805	781	785	799	794	783	775	781	788	789	792	789	781	786	788	798	799	800	792	
20		798	803	803	804	809	810	814	778	800	800	800	796	793	780	786	796	788	782	783	791	792	791	802	802	796	
21		799	803	804	804	810	810	803	803	799	798	794	792	792	798	798	798	798	798	796	796	796	796	796	803	799	
22	D	802	802	802	802	802	817	802	803	801	802	799	798	798	793	786	783	794	788	791	789	798	800	803	804	798	
23	Q	804	805	805	803	803	803	803	803	803	803	803	803	799	790	798	798	796	788	790	791	791	798	800	801	799	
24		805	814	825	827	828	853	823	805	786	770	786	790	802	799	798	798	798	799	799	796	796	795	799	799	804	
25		802	802	802	802	802	802	812	805	803	790	790	790	780	792	788	786	788	796	799	794	794	794	791	792	796	
26		799	803	802	798	798	798	798	798	798	798	798	798	798	798	798	798	798	798	793	794	791	792	794	798	797	
27		809	808	799	798	794	798	809	809	799	803	802	793	794	794	794	794	794	794	788	783	785	801	814	802	798	
28		803	814	825	815	799	796	799	802	803	803	802	803	793	794	809	798	794	794	792	792	794	801	803	803	801	
29	D	804	804	803	801	801	801	801	794	802	801	799	794	788	786	786	786	786	786	788	795	795	792	792	795	795	
30	Q	803	803	803	803	810	810	814	798	791	798	788	786	792	802	809	803	803	799	794	794	794	800	800	800	800	
31	Q	799	805	805	806	812	817	770	790	803	801	799	794	794	799	799	799	799	799	794	794	794	794	794	794	798	
Mean		807	807	809	810	809	809	803	795	790	784	782	786	784	784	790	795	795	794	797	798	800	803	804	805	797	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48 Meanook

December 1953

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° East +		Minimum 24° East +		Range '	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 Q	13 00	898	18 46	879	<u>19</u>	16 25	37.4	19 26	30.8	<u>06.6</u>	06 00	811	19 09	799	<u>12</u>
2 Q	01 35	903	16 35	831	<u>72</u>	06 48	37.8	06 57	30.4	<u>07.4</u>	07 36	811	06 37	761	<u>50</u>
3	14 51	915	11 47	856	<u>59</u>	13 12	42.4	18 43	28.9	<u>13.5</u>	05 30	827	11 36	741	<u>86</u>
4	02 19	910	17 50	874	<u>36</u>	16 38	39.5	01 00	28.0	<u>11.5</u>	01 15	838	17 37	794	<u>44</u>
5	23 40	903	17 33	871	<u>32</u>	15 12	38.6	00 03	29.5	<u>09.1</u>	02 30	864	10 07	786	<u>78</u>
6	16 30	917	13 37	826	<u>91</u>	15 32	41.7	22 40	29.1	<u>12.6</u>	23 21	819	14 10	727	<u>92</u>
7	00 58	903	11 30	857	<u>46</u>	07 37	40.9	22 26	30.1	<u>10.8</u>	03 07	842	11 15	770	<u>72</u>
8	08 45	907	18 58	868	<u>39</u>	05 12	38.5	24 00	24.3	<u>14.2</u>	07 40	820	17 23	783	<u>37</u>
9	02 40	912	20 23	841	<u>71</u>	15 28	40.0	21 12	23.0	<u>17.0</u>	00 12	839	10 07	779	<u>60</u>
10	07 05	921	10 02	819	<u>102</u>	06 33	42.8	10 07	12.7	<u>30.1</u>	06 28	811	10 17	660	<u>151</u>
11 D	21 20	<u>962</u>	09 20	418	<u>544</u>	05 05	<u>67.3</u>	10 25	<u>00.6</u>	<u>66.7</u>	21 22	<u>904</u>	10 25	<u>473</u>	<u>431</u>
12 D	05 40	964	07 14	581	<u>383</u>	07 00	58.6	07 12	10.3	<u>48.3</u>	03 20	890	07 09	485	<u>405</u>
13 D	05 00	915	09 40	773	<u>142</u>	04 55	50.7	10 12	19.9	<u>30.8</u>	00 10	851	09 45	695	<u>156</u>
14	02 51	900	09 30	846	<u>54</u>	04 48	36.8	09 53	26.4	<u>10.4</u>	22 03	815	09 05	697	<u>118</u>
15	08 17	917	20 08	835	<u>82</u>	07 12	41.3	20 12	25.5	<u>15.8</u>	21 53	818	07 12	773	<u>55</u>
16	23 50	906	08 36	770	<u>136</u>	10 28	39.7	08 30	15.0	<u>24.7</u>	01 29	821	08 33	617	<u>204</u>
17	23 25	918	14 31	870	<u>48</u>	15 33	38.3	23 00	26.9	<u>11.4</u>	06 26	817	14 32	784	<u>33</u>
18	01 05	918	18 30	837	<u>81</u>	16 43	36.3	18 45	26.9	<u>09.4</u>	01 37	817	16 30	781	<u>36</u>
19	22 33	909	18 48	868	<u>41</u>	06 56	38.7	20 33	22.9	<u>15.8</u>	06 35	812	07 37	757	<u>55</u>
20	06 55	929	18 52	872	<u>57</u>	16 00	38.3	07 20	24.5	<u>13.8</u>	06 45	823	07 20	745	<u>78</u>
21	00 23	909	11 07	876	<u>33</u>	13 35	35.9	20 03	29.3	<u>06.6</u>	04 45	814	11 00	782	<u>32</u>
22 D	17 31	920	19 42	844	<u>76</u>	05 28	58.6	20 40	23.2	<u>35.4</u>	05 35	831	15 18	771	<u>60</u>
23 Q	23 37	913	18 23	857	<u>56</u>	16 25	38.7	19 42	24.2	<u>14.5</u>	00 15	812	19 55	781	<u>31</u>
24	05 05	938	09 20	<u>-377</u>	<u>1315</u>	03 25	41.8	06 15	24.1	<u>17.7</u>	05 38	870	09 20	747	<u>123</u>
25	22 02	910	12 45	866	<u>44</u>	06 18	43.4	20 10	26.2	<u>17.2</u>	07 10	821	12 44	765	<u>56</u>
26	15 02	915	21 48	860	<u>55</u>	15 10	39.0	22 48	25.3	<u>13.7</u>	01 07	809	23 12	784	<u>25</u>
27	23 37	910	09 34	874	<u>36</u>	17 10	40.0	21 53	21.3	<u>18.7</u>	22 20	823	19 20	778	<u>45</u>
28	23 53	917	19 25	866	<u>51</u>	13 25	41.3	19 52	25.3	<u>16.0</u>	02 53	837	13 07	782	<u>55</u>
29 D	15 55	921	17 02	867	<u>54</u>	15 35	42.1	19 15	25.6	<u>16.5</u>	01 00	809	17 03	775	<u>34</u>
30 Q	21 31	915	12 49	868	<u>47</u>	08 05	38.8	20 58	27.1	<u>11.7</u>	05 12	820	11 43	775	<u>46</u>
31 Q	07 20	915	06 30	832	<u>83</u>	05 55	39.5	06 30	22.2	<u>17.3</u>	05 57	831	06 27	734	<u>97</u>
Mean		916		788	128		42.1		23.9	18.2		830		738	92
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 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
Table 49 Meanook HORIZONTAL INTENSITY (gammas) (All Days) 1953																								
January	+16	+21	+21	+22	+18	+16	+15	+5	-4	-26	-54	-61	-23	-21	-7	-4	+2	+1	+1	-1	-6	+13	+17	+18
February	+19	+21	+30	+23	+25	+27	+11	-13	-43	-51	-31	-32	-27	-10	+1	+2	+1	-1	-4	-4	+4	+16	+15	+21
March	+52	+42	+45	+52	+48	+45	+20	-4	-38	-71	-70	-36	-41	-14	-7	-13	-3	-7	-14	-8	+5	+12	+23	+38
April	+38	+37	+40	+35	+24	+21	+3	-33	-36	-39	-41	-39	-33	-17	-14	-2	-1	-5	-2	+2	+7	+11	+23	+28
May	+48	+48	+42	+38	+29	+11	-17	-36	-47	-71	-57	-38	-1	-20	-10	-12	-11	-16	-9	+1	+9	+31	+39	+50
June	+31	+34	+32	+28	+22	+11	-5	-39	-25	-31	-30	-22	+5	-9	-9	+9	-1	-7	-14	-11	-1	+2	+8	+18
July	+45	+48	+48	+54	+47	+26	-3	-29	-102	-79	-89	-92	-15	+3	+10	+12	+13	+8	+2	+7	+10	+12	+2	+39
August	+46	+61	+64	+69	+53	+16	-22	-34	-80	-102	-45	-56	-36	-18	+10	+4	+7	0	-3	+2	+7	+20	+37	+53
September	+58	+63	+62	+52	+53	+14	-37	-76	-68	-54	-75	-66	-51	-16	-16	+5	-2	-2	+5	+18	+28	+43	+49	
October	+36	+36	+34	+33	+31	+21	-14	-23	-72	-52	-46	-29	-32	-22	-5	-11	+1	-4	+3	+9	+17	+24	+30	+30
November	+24	+25	+26	+29	+26	+20	+3	-19	-42	-43	-62	-54	-43	-11	+15	+15	+14	+9	+1	+7	+7	+12	+18	+20
December	+10	+10	+9	+8	+7	+5	-2	-4	-6	-11	-15	-5	-4	-11	+2	+7	+5	-2	-7	-6	-3	+2	+5	+8
Year	+35	+37	+38	+37	+32	+19	-4	-25	-48	-52	-55	-49	-25	-14	-2	+1	+2	-2	-4	0	+7	+15	+23	+31
Winter	+17	+19	+22	+20	+19	+17	+7	-8	-24	-32	-40	-38	-24	-13	+3	+5	+6	+2	-2	-1	+4	+11	+14	+17
Equinox	+46	+44	+47	+43	+39	+25	-7	-34	-54	-54	-59	-58	-39	-17	-10	-5	-1	-4	-4	+2	+12	+19	+30	+36
Summer	+42	+48	+46	+47	+38	+16	-12	-34	-65	-71	-65	-52	-12	-11	0	+3	+2	-4	-6	0	+6	+16	+28	+40
Table 50 Meanook DECLINATION (minutes) (All Days) 1953																								
January	-0.8	+0.6	+1.4	+2.4	+0.7	+0.4	-0.4	-1.1	-1.7	0.0	+4.8	+5.0	+5.4	+2.6	+2.8	+3.3	+0.7	-1.5	-4.2	-5.8	-5.3	-4.0	-2.4	-1.6
February	-1.2	-1.1	-0.5	+0.2	+0.2	+1.1	+1.0	+1.5	-1.1	-0.2	+1.6	+0.2	+2.4	+2.3	+1.6	+2.2	+1.9	+0.6	-1.2	-2.1	-2.9	-2.8	-2.9	-2.0
March	-3.1	-1.5	-0.2	+0.7	+0.9	+1.2	+2.0	+0.1	+0.9	-0.8	+1.5	+1.4	+0.4	+1.5	+3.2	+5.1	+5.2	+3.2	+0.1	-2.9	-3.9	-4.6	-4.7	-2.3
April	-4.6	-4.0	-1.9	-0.5	+0.7	+1.2	-0.7	+1.2	+0.6	-1.1	-0.3	+1.6	+2.3	+5.6	+6.5	+6.2	+5.6	+3.2	+1.0	-1.7	-3.9	-5.4	-6.0	-5.5
May	-5.5	-3.4	-1.3	-0.1	0.0	+1.0	-2.8	-3.1	+0.1	+0.2	+0.9	+1.1	+4.9	+8.1	+7.4	+8.1	+6.2	+3.3	-1.3	-3.1	-5.3	-5.0	-5.2	-5.0
June	-5.5	-3.4	-2.5	-1.2	-0.9	-1.2	-1.0	-1.7	-0.5	-0.1	+1.4	+2.4	+4.1	+6.2	+8.3	+8.3	+8.5	+5.9	+1.5	-2.6	-4.8	-6.4	-7.4	-6.8
July	-4.8	-3.2	-1.9	+0.4	-0.6	+0.4	+2.3	+1.2	-1.2	-1.4	-0.1	+0.9	+2.7	+6.1	+8.0	+9.1	+6.9	+4.9	+0.2	-3.3	-6.4	-7.3	-6.7	-6.3
August	-3.8	-0.8	+1.0	+0.9	+1.5	-0.8	-4.1	-1.8	0.0	+1.6	0.0	+1.9	+5.9	+6.0	+8.2	+8.3	+6.2	+2.3	-2.1	-5.2	-7.0	-7.4	-6.3	-5.4
September	-1.9	+0.7	+2.5	+1.6	-0.6	-0.9	-0.8	-3.0	-1.5	-0.9	+1.6	+3.1	+5.2	+5.1	+6.0	+5.8	+4.0	+1.0	-3.2	-6.3	-6.4	-5.5	-3.7	-1.9
October	-1.7	-0.9	+1.3	+1.4	+2.2	+1.6	-0.1	+0.4	-0.3	+1.0	+0.9	+3.0	+3.0	+0.5	+2.5	+2.3	+1.8	+0.3	-1.5	-3.3	-4.5	-4.2	-3.3	-2.3
November	-0.6	+0.1	+2.1	+3.3	+3.1	+3.7	+1.0	-0.4	-0.5	-0.8	-1.8	-0.9	+0.4	+0.6	+1.8	+2.1	+1.6	0.0	-2.4	-2.9	-3.6	-3.1	-2.0	-1.6
December	-0.5	+0.1	+0.7	+1.3	+1.6	+2.2	+1.3	+0.3	-0.5	-0.6	-0.9	+1.2	+1.9	+1.0	+1.3	+3.0	+2.7	+0.6	-1.4	-4.8	-3.7	-3.4	-2.7	-1.7
Year	-2.8	-1.4	0.0	+0.9	+0.7	+0.8	-0.2	-0.5	-0.5	-0.3	+0.8	+1.7	+3.2	+3.8	+4.8	+5.3	+4.3	+2.0	-1.2	-3.5	-4.8	-4.9	-4.4	-3.7
Winter	-0.8	-0.1	+0.9	+1.8	+1.4	+1.8	+0.7	+0.1	-1.0	-0.4	+0.9	+1.4	+2.5	+1.6	+1.9	+2.6	+1.7	-0.1	-2.3	-3.4	-3.9	-3.3	-2.5	-1.7
Equinox	-2.8	-1.4	+0.4	+0.8	+0.8	+0.8	+0.1	-0.3	-0.1	-0.4	+0.9	+2.3	+2.7	+3.2	+4.6	+4.8	+4.2	+1.9	-1.0	-3.6	-4.7	-4.9	-4.4	-3.5
Summer	-4.9	-2.7	-1.2	0.0	0.0	-0.2	-1.4	-1.4	-0.4	+0.1	+0.6	+1.6	+4.4	+6.6	+8.0	+8.4	+7.0	+4.1	-0.4	-3.6	-5.9	-6.5	-6.4	-5.9
Table 51 Meanook VERTICAL INTENSITY (gammas) (All Days) 1953																								
January	+24	+29	+31	+32	+25	+22	+12	-8	-27	-32	-50	-45	-29	-25	-19	-15	-6	-4	+1	+4	+11	+16	+21	+21
February	+24	+27	+33	+27	+25	+21	+8	-4	-43	-47	-36	-25	-31	-22	-13	-10	-6	-3	+1	+3	+10	+16	+19	+25
March	+28	+41	+43	+45	+33	+20	-7	-19	-35	-52	-58	-59	-62	-26	-14	-2	0	+4	+5	+12	+18	+25	+25	+25
April	+40	+40	+46	+45	+36	+15	-6	-36	-51	-47	-70	-54	-40	-25	-13	-6	0	+5	+11	+13	+14	+18	+25	+28
May	+28	+35	+31	+32	+24	-1	-12	-35	-44	-43	-46	-41	-23	-17	-16	-12	+4	+2	+13	+15	+24	+30	+32	+28
June	+25	+30	+32	+31	+18	+7	-11	-51	-39	-39	-28	-16	-9	-9	-11	+1	+1	-1	+3	+9	+16	+19	+20	
July	+52	+56	+56	+44	+38	+8	-23	-41	-76	-80	-80	-67	-31	-9	-2	+2	+7	+6	+9	+13	+18	+24	+31	+38
August	+47	+57	+60	+46	+23	-18	-27	-44	-66	-80	-70	-39	-37	-20	-7	-6	+3	+5	+10	+16	+25	+32	+41	+45
September	+35	+48	+39	+28	+19	-7	-50	-59	-61	-37	-54	-34	-32	-22	-18	+2	+7	+16	+22	+26	+32	+36	+40	+36
October	+30	+36	+28	+18	+16	+9	-18	-27	-40	-47	-56	-34	-27	-20	-10	-10	+2	+6	+15	+19	+25	+28	+31	+34
November	+25	+27	+25	+33	+32	+14	-6	-24	-45	-49	-57	-37	-41	-31	-5	+2	+6	+7	+10	+15	+18	+20	+24	+22
December	+10	+10	+12	+13	+12	+12	+6	-2	-7	-13	-15	-11	-13	-13	-7	-2	-2	-3	0	+1	+3	+6	+7	+8
Year	+31	+36	+37	+33	+25	+8	-11	-29	-44	-47	-52	-38	-31	-20	-11	-5	+1	+4	+8	+12	+17	+22	+26	+28
Winter	+21	+23	+28	+26	+24	+17	+5	-10	-30	-35	-40	-30	-28	-23	-11	-6	-2	-1	+3	+6	+10	+14	+18	+19
Equinox	+33	+41	+39	+34	+26	+9	-20	-35	-47	-46	-60	-45	-40	-23	-14	-4	+2	+8	+13	+18	+22	+27	+30	+31
Summer	+38	+44	+45	+38	+26	-1	-18	-43	-56	-60	-56	-41	-25	-14	-9	-4	+4	+4	+8	+12	+19	+26	+31	+33

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

Table 52 Meanook

HORIZONTAL INTENSITY (gammas) (Quiet Days)

1953

Hour 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
January	+2	+4	+5	<u>+7</u>	+4	+2	-1	0	-1	+1	-1	0	0	-1	+1	+1	0	-4	-2	-5	<u>-10</u>	-2	-1	+2
February	+1	+1	0	-1	-1	-3	-1	-2	-1	-2	-2	-2	+1	0	+2	0	-5	-6	<u>-11</u>	-8	-4	+14	+14	<u>+17</u>
March	+5	+5	<u>+12</u>	+6	+1	+1	+2	+2	+4	+4	+2	+6	+4	+5	+4	+1	-2	-12	<u>-20</u>	-18	-12	-5	-2	+6
April	+10	<u>+16</u>	<u>+16</u>	+12	<u>+16</u>	+11	+11	0	-8	-9	<u>-18</u>	-5	+5	+8	+4	-3	-12	-17	-16	-15	-8	-5	-2	+4
May	<u>+9</u>	<u>+9</u>	+7	+3	+2	+2	+4	+6	+6	+4	+7	+2	+7	<u>+9</u>	0	-6	-14	<u>-17</u>	-16	-17	-14	-5	-1	
June	+8	<u>+10</u>	+9	+6	+5	+6	+7	+5	+4	+6	+4	+6	+8	+8	+3	-10	-19	<u>-26</u>	-23	-16	-9	-2	+9	
July	+11	+13	+11	+4	+8	+4	+5	-2	<u>-26</u>	-7	-1	+10	+9	<u>+16</u>	+8	+3	-6	-10	-10	-9	-8	-6	+7	
August	+7	<u>+9</u>	+8	+4	+2	+6	+5	+6	+5	+5	+6	+5	+1	+6	-2	-10	<u>-22</u>	-18	-15	-13	-6	+3	+4	
September	+2	-1	-3	0	+4	-1	-1	0	+2	+4	+7	+8	<u>+11</u>	<u>+11</u>	+5	-1	-9	-15	<u>-16</u>	-10	-1	+4	-2	+3
October	+1	+4	+6	+7	+5	+5	+6	+7	+6	-15	+4	+8	<u>+11</u>	<u>+11</u>	+9	+1	-10	-19	<u>-24</u>	-18	-11	-2	+2	+5
November	-1	+3	+3	<u>+5</u>	+4	+3	<u>+5</u>	+4	+3	+2	0	+2	+4	+3	+4	+2	-4	-10	<u>-12</u>	-10	-6	-4	-1	-1
December	<u>+8</u>	+7	+4	+2	0	-3	-9	-2	-2	-3	-2	0	+3	+5	+5	+3	+3	+3	<u>-14</u>	-11	-5	0	-4	<u>+8</u>
Year	+5	<u>+7</u>	<u>+7</u>	+5	+4	+3	+3	+2	0	-2	0	+2	+6	+6	+6	+1	-5	-12	<u>-16</u>	-13	-9	-3	-1	+5
Winter	+1	+5	+4	+5	+2	0	-1	0	0	0	-1	0	+2	+2	+3	+1	-1	-5	<u>-12</u>	-8	-6	+2	+2	<u>+6</u>
Equinox	+5	+6	+8	+6	+6	+4	+5	+2	+1	-4	-1	+4	+8	<u>+9</u>	+5	+1	-8	-16	<u>-19</u>	-15	-8	-2	-1	+4
Summer	+9	<u>+10</u>	+9	+4	+4	+5	+5	+4	-1	-2	+2	+2	+8	+7	<u>+10</u>	+1	-6	-15	-15	<u>-16</u>	-13	-9	-4	+5

Table 53 Meanook

DECLINATION (minutes) (Quiet Days)

1953

Hour 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
January	+0.2	+0.3	+2.1	+0.6	0.0	-0.1	+0.4	-0.2	-0.3	-0.8	0.0	+0.6	+1.2	+0.5	<u>+2.2</u>	+1.8	+1.7	+1.6	-1.0	-2.4	<u>-2.7</u>	-2.2	-2.0	-1.8
February	-0.5	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	-0.5	-0.2	+0.4	+0.7	+0.9	+2.2	+1.4	+2.1	<u>+2.7</u>	+2.4	+1.6	-0.8	-2.2	<u>-2.8</u>	-2.4	-2.2	-1.4
March	-2.9	-1.9	-0.4	-2.0	-1.3	+0.2	+1.7	0.0	-0.2	-0.5	+0.6	+0.8	+1.1	+2.1	+3.0	<u>+4.8</u>	<u>+5.7</u>	+4.9	+2.2	-1.2	-3.8	<u>-4.3</u>	-4.1	-4.0
April	-3.4	-3.6	-3.7	-1.0	-1.3	+1.4	-0.7	+1.1	-1.5	-0.3	-0.8	-0.3	-0.3	+4.2	<u>+6.8</u>	+6.0	+5.9	+4.2	+1.3	-1.8	-3.9	-5.3	<u>-6.0</u>	+3.3
May	-3.4	-2.2	-1.7	-1.2	-0.9	-0.6	-0.4	+0.2	+0.8	+0.7	+0.6	+3.5	+5.4	<u>+6.7</u>	+6.2	+5.8	+4.0	+0.3	-1.6	-4.6	-5.9	<u>-6.0</u>	-5.0	
June	-4.9	-3.0	-1.3	-1.4	-1.8	-1.4	-1.4	+0.7	-0.6	+0.1	+0.5	+1.4	+3.7	+5.9	<u>+7.9</u>	<u>+8.5</u>	+6.9	+7.2	+2.1	-2.0	-5.3	-7.4	<u>-7.8</u>	-6.6
July	-3.2	-2.0	-1.5	-0.9	-1.0	-1.0	-1.4	+0.6	+0.4	+1.1	+1.6	+2.8	+3.9	+5.2	<u>+7.6</u>	+6.7	+5.4	+0.6	-3.0	-5.4	<u>-6.3</u>	-5.9	-4.6	
August	-3.4	-3.0	-2.5	-2.9	-1.3	-1.4	-1.6	-1.7	-1.2	+0.4	0.0	+0.7	+3.3	+6.0	<u>+7.7</u>	<u>+8.2</u>	+6.5	+3.0	-1.6	-4.3	-0.2	<u>-0.6</u>	<u>-5.3</u>	-4.6
September	-0.9	-0.4	-1.6	-0.7	-0.5	+1.4	-1.9	-0.8	+1.2	+1.4	+1.6	+1.8	+2.6	+3.7	+5.2	<u>+5.3</u>	+3.9	+2.1	-2.9	<u>-5.2</u>	-4.5	-4.5	-3.8	-2.5
October	-1.3	-1.2	-0.6	-0.7	-0.9	+0.7	+0.2	-0.8	-0.3	-0.9	+0.4	+1.0	+1.5	+2.3	+3.9	<u>+5.5</u>	<u>+6.4</u>	+3.1	-0.7	-3.5	<u>-6.2</u>	-1.7	-4.1	-2.1
November	-1.6	-0.7	-0.6	-0.2	-0.3	+1.1	+3.0	-0.7	-1.2	-0.6	-0.7	+0.5	+0.6	+0.9	+1.4	+2.4	+2.8	<u>+4.0</u>	+0.4	-1.4	-2.2	<u>-2.7</u>	-2.1	-2.2
December	-0.7	+0.1	+0.8	+0.9	+0.4	+0.7	-0.2	+0.8	+0.8	+0.4	+0.7	+0.7	+0.5	+0.5	+0.7	+1.7	<u>+2.6</u>	+1.3	+0.8	-1.9	<u>-3.4</u>	-3.2	-2.7	-2.3
Year	-2.2	-1.5	-0.9	-0.8	-0.8	0.0	-0.2	-0.2	-0.2	0.0	+0.4	+0.9	+1.9	+3.0	+4.4	<u>+5.0</u>	+4.8	+3.5	+0.1	-2.6	-3.8	-3.9	<u>-4.3</u>	-2.8
Winter	-0.7	-0.2	+0.5	+0.3	0.0	+0.4	+0.8	-0.2	-0.2	-0.2	+0.2	+0.7	+1.1	+0.3	+1.6	+2.1	<u>+2.4</u>	+2.1	-0.2	-2.0	<u>-2.8</u>	-2.6	-2.3	-1.9
Equinox	-2.2	-1.8	-1.6	-1.2	-1.1	+0.9	-0.2	-0.1	-0.2	-0.1	+0.4	+0.8	+1.2	+3.0	+4.7	+5.4	<u>+6.5</u>	+3.6	0.0	-3.0	<u>-4.6</u>	-4.0	-4.5	-1.3
Summer	-3.7	-2.6	-1.7	-1.6	-1.2	-1.2	-1.2	-0.2	-0.2	+0.4	+0.6	+1.1	+3.3	+5.3	+6.9	<u>+7.6</u>	+6.5	+4.9	+0.4	-2.7	-3.9	-5.0	<u>-6.3</u>	-5.2

Table 54 Meanook

VERTICAL INTENSITY (gammas) (Quiet Days)

1953

Hour 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
January	+8	+8	<u>+10</u>	+7	+6	+5	+6	+6	+4	-1	0	-1	-2	-5	-6	-6	-8	-4	<u>-14</u>	-11	-5	0	+2	+2
February	+4	+4	+4	+4	<u>+6</u>	<u>+6</u>	+1	+2	+1	-4	-2	-5	-6	-7	-6	-3	-2	-2	-5	-1	0	+4	+4	+3
March	+14	<u>+18</u>	<u>+18</u>	+10	+8	+12	+9	+5	0	-2	-11	<u>-17</u>	-12	-8	-3	0	-2	-2	-14	-10	-7	-5	-2	0
April	+20	+18	+26	<u>+36</u>	+34	+17	+7	-12	-21	-28	<u>-39</u>	-30	-33	-9	+9	-1	-1	-3	-3	-1	-1	+1	+4	+8
May	+7	+7	<u>+9</u>	+8	+7	+2	+2	-1	-8	-12	<u>-15</u>	-7	-4	0	-2	-2	-3	-5	-2	-1	+3	+6	+8	
June	+9	<u>+13</u>	+10	+8	+3	+3	+3	0	-5	-6	-5	-2	0	-2	-3	-5	-6	<u>-11</u>	-10	-6	-2	+2	+9	
July	+13	+19	+20	<u>+27</u>	+22	+4	+10	-13	-40	<u>-56</u>	-28	-22	-2	0	+2	+2	+20	-2	0	-1	+1	+4	+9	+15
August	+6	+8	+9	<u>+10</u>	+10	+6	+5	-1	-2	-6	-6	-6	-4	<u>-10</u>	-4	-4	-4	-5	-6	-5	-2	+4	+6	+5
September	+6	+8	+10	<u>+12</u>	+6	+7	0	<u>-13</u>	-6	+1	-1	-1	-2	-12	-4	-2	-2	-4	-4	-6	0	0	-2	0
October	+5	<u>+7</u>	+5	+4	+5	+6	0	-2	-1	0	-2	-4	-3	0	+1	0	0	-2	<u>-6</u>	-6	-5	-5	0	0
November	+5	+4	+4	+6	<u>+8</u>	<u>+8</u>	+5	+4	+1	-2	<u>-3</u>	-5	-3	-3	-2	-1	-1	-1	-3	-3	-3	-3	-3	-3
December	+1	+3	+3	+5	+7	<u>+9</u>	-4	-1	0	-2	-1	-3	-3	-2	+1	0	0	-2	<u>-4</u>	-3	-3	-1	0	0
Year	+8	+10	<u>+11</u>	<u>+11</u>	+10	+7	+4	-2	-5	-9	<u>-10</u>	<u>-10</u>	-7	-5	-1	-2	-1	-3	-6	-5	-3	0	+2	+4
Winter	+4	+5	+6	+6	<u>+7</u>	<u>+7</u>	+3	+3	+2	-2	-3	-4	-4	-4	-3	-3	-3	-2	<u>-6</u>	-5	-3	0	+1	+1
Equinox	+11	+13	<u>+15</u>	<u>+15</u>	+13	+10	+4	-6	-7	-7	<u>-13</u>	<u>-13</u>	<u>-13</u>	-7	+1	-1	-2	-3	-7	-6	-4	-2	0	+2
Summer	+9	<u>+12</u>	<u>+12</u>	<u>+12</u>	+10	+4	+5	-3	-10	<u>-18</u>	-14	-13	-4	-4	-1	-2	+2	-4	-5	-4	-2	+2	+5	+9

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

Hour U. T. Month Season	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
Table 55 Meanook HORIZONTAL INTENSITY (gammas) (Disturbed Days) 1953																								
January	+45	+55	<u>+64</u>	+53	+23	+41	+53	+24	+22	-91	-102	<u>-162</u>	-34	-70	-58	-32	-16	+6	+1	-4	+39	+38	+54	+53
February	+69	+75	<u>+134</u>	+93	+112	+62	+13	-91	<u>-182</u>	-138	-122	<u>-110</u>	-147	-66	0	+50	+9	+7	-2	-6	-45	+69	+48	+79
March	<u>+184</u>	+115	+140	+161	+145	+171	+52	-3	-79	-246	-238	<u>-297</u>	-201	-86	-80	-104	-7	+1	-6	+16	+76	+89	+102	+97
April	+112	+103	<u>+128</u>	+116	+48	+32	+54	-152	+70	-40	-107	-70	-76	-93	-84	-17	<u>-160</u>	+11	+8	+29	+33	+41	+62	+63
May	+129	+119	+127	+126	+83	+21	-127	-116	-74	-147	<u>-185</u>	-122	-12	-152	-87	-68	-52	-46	+2	+45	+47	+147	+150	<u>+191</u>
June	+92	<u>+127</u>	+99	+110	+62	+12	-48	-118	-82	-147	<u>-185</u>	-117	+11	-73	-68	+39	+22	+27	+21	+28	+35	+35	+51	+66
July	+108	+132	+132	<u>+161</u>	+116	+42	-45	-65	-252	-181	<u>-302</u>	-254	-46	-6	+9	-7	+37	+41	+27	+51	+52	+63	+84	+105
August	+99	+172	+182	<u>+220</u>	+170	+51	-62	-117	-265	<u>-274</u>	-226	-245	-172	-34	+13	-46	+17	+28	+32	+39	+54	+66	+123	+174
September	+180	<u>+195</u>	+187	+124	+124	-22	-183	-241	-137	-151	<u>-265</u>	-182	-145	-75	-107	+7	+11	+43	+40	+66	+90	+112	+156	+174
October	<u>+152</u>	+139	+127	+98	+91	+56	-68	-100	<u>-209</u>	-128	-196	-140	-181	-119	-66	-84	-3	+15	+74	+84	+107	+104	+125	+120
November	+69	+76	+81	<u>+96</u>	+82	+31	-32	-86	-119	-91	-123	-166	<u>-204</u>	-101	+29	+47	+52	+47	+22	+51	+46	+53	+66	+69
December	+25	+26	+29	<u>+30</u>	+23	+24	-6	-10	-7	-38	-66	-24	-28	<u>-72</u>	+2	+23	+22	+8	-3	-7	0	+17	+17	+17
Year	+105	+111	<u>+119</u>	+116	+90	+43	-42	-90	-109	-139	<u>-176</u>	-157	-103	-79	-41	-16	-5	+16	+18	+33	+44	+69	+86	+101
Winter	+52	+58	<u>+77</u>	+68	+60	+39	+7	-41	-71	-89	-104	<u>-115</u>	-103	-77	-7	+22	+18	+18	+4	+9	+10	+44	+46	+55
Equinox	<u>+157</u>	+138	+145	+125	+102	+59	-63	-124	-89	-141	<u>-201</u>	-172	-151	-94	-84	-49	-40	+18	+29	+49	+76	+86	+111	+114
Summer	+107	+137	+135	<u>+154</u>	+108	+31	-70	-104	-168	-187	<u>-224</u>	-184	-55	-66	-33	-21	+6	+12	+20	+41	+47	+78	+102	+134
Table 56 Meanook DECLINATION (minutes) (Disturbed Days) 1953																								
January	-4.1	-1.2	+0.2	+5.2	+1.4	-0.7	+1.3	-4.3	-6.7	0.0	<u>+21.8</u>	+17.7	+9.8	+1.9	0.0	+4.5	-1.7	-5.4	-9.5	<u>-9.9</u>	-7.3	-6.9	-3.6	-2.6
February	-0.2	-0.2	+1.0	+2.0	+2.0	+2.8	+2.0	+4.0	<u>-8.5</u>	<u>+5.6</u>	-0.4	-3.9	+4.0	+2.9	+0.4	+2.4	+3.2	+0.3	-1.6	-2.8	-3.7	-3.6	-4.7	-3.3
March	-3.1	-0.2	-0.3	+7.8	0.0	+3.5	+3.7	-0.6	-0.7	+0.3	<u>+8.2</u>	+6.8	+0.5	+0.9	0.0	+4.3	+1.3	-1.3	-4.4	<u>-8.7</u>	-6.1	-4.2	-3.0	-4.2
April	-1.6	+5.6	-5.0	+5.0	<u>+11.0</u>	+5.2	<u>-5.8</u>	+5.6	+0.2	-3.1	-5.0	-1.6	-3.2	+2.5	+3.6	+4.5	+2.5	+3.8	+0.8	-0.7	-3.2	-3.5	-3.2	-3.0
May	-7.7	-6.5	+0.9	-0.2	+1.9	-4.3	<u>-16.4</u>	-3.1	+1.0	+0.2	-0.6	-1.1	+6.3	<u>+11.0</u>	+4.6	+9.5	+6.3	+4.7	-3.9	-3.1	-3.6	+3.2	+1.4	-0.6
June	-5.6	-2.8	-2.6	-0.9	-2.9	-2.5	+0.2	-3.5	-2.3	+0.6	+6.9	+7.7	+3.6	+6.6	+9.4	+8.3	<u>+10.0</u>	+4.5	0.0	-4.4	-6.7	+7.2	<u>-8.4</u>	-7.7
July	-8.2	-3.8	-0.2	+8.4	-0.3	-0.1	+6.4	+1.5	+2.1	-2.6	-1.7	+2.8	+2.7	+8.6	<u>+9.4</u>	+8.3	+4.3	+2.7	-1.4	-4.2	<u>-9.5</u>	-9.4	-8.1	-7.9
August	-7.3	+4.4	+5.1	-6.8	-5.1	-3.8	<u>-11.3</u>	-1.9	+8.8	+0.5	+0.5	+8.5	<u>+14.6</u>	+6.2	+10.8	+9.7	+4.8	-1.1	-5.4	-6.2	-8.6	-7.0	-4.5	-4.9
September	-0.4	+5.3	+4.1	+5.2	-0.2	-3.9	+0.8	-2.8	-8.3	-0.7	+2.8	<u>+4.7</u>	<u>+11.8</u>	+7.8	+4.6	+5.0	+2.9	-2.0	-7.0	<u>-10.0</u>	-5.4	-6.1	-5.2	-3.2
October	+1.6	+0.6	+8.7	+4.1	+4.1	+1.5	-2.8	-2.8	-0.8	+2.8	+1.7	<u>+10.1</u>	+6.9	-5.8	+5.7	-5.9	-5.5	<u>-6.7</u>	-2.5	-3.9	-2.5	-3.3	-3.3	-0.7
November	+0.9	+2.1	+6.9	<u>+15.4</u>	+14.7	+9.0	+1.3	+1.9	+0.4	-4.9	-3.6	-4.3	-7.0	<u>-7.4</u>	+0.2	-0.2	-2.1	-4.9	-7.1	-3.9	-4.3	-3.7	-0.1	+0.6
December	+1.3	+0.8	+0.5	+8.3	+4.5	<u>+9.6</u>	+2.6	-2.6	-3.0	-4.2	<u>-6.7</u>	+2.5	+4.4	-1.5	+0.9	+4.5	+3.6	-1.9	-4.8	-4.5	-5.0	-4.7	-3.3	-1.3
Year	-2.9	-0.7	+1.6	+4.5	+2.6	+1.4	-1.5	-0.7	-1.5	-0.5	+2.0	+4.2	+4.5	+2.8	+4.1	<u>+4.6</u>	+2.5	-0.7	-3.9	-5.2	<u>-5.5</u>	-4.7	-3.8	-3.2
Winter	-0.5	+0.4	+2.1	<u>+7.7</u>	+5.7	+5.2	+1.8	-0.3	-4.5	-0.9	+2.8	+3.0	+2.7	-1.0	+0.4	+2.8	+0.8	-3.0	<u>-5.8</u>	-5.3	-5.1	-4.7	-2.9	-1.6
Equinox	-0.9	-0.3	+1.9	<u>+5.6</u>	+3.7	+1.6	-1.0	-0.1	-2.4	-0.2	+1.9	+5.0	+4.0	+1.2	+3.5	+1.9	+0.3	-1.6	-3.3	<u>-5.8</u>	-4.3	-4.3	-3.7	-2.8
Summer	<u>-7.2</u>	-2.2	+0.8	+0.1	-1.6	-2.7	-5.3	-1.7	+2.4	-0.3	+1.3	+4.5	+6.8	+8.1	+8.5	<u>+9.0</u>	+6.3	+2.7	-2.7	-4.5	-7.1	-5.1	-4.9	-5.3
Table 57 Meanook VERTICAL INTENSITY (gammas) (Disturbed Days) 1953																								
January	+45	+50	+62	<u>+73</u>	+46	+38	+38	-70	<u>-144</u>	-98	-81	-42	-23	-80	-52	-24	-2	+1	+19	+31	+47	+44	+62	+60
February	+64	+78	<u>+103</u>	+70	+56	+12	-26	-54	<u>-134</u>	-102	-87	-60	-92	-51	-30	-23	-16	-2	+28	+22	+44	+65	+55	+82
March	+21	+70	<u>+104</u>	+88	+59	+52	-40	-71	-87	-71	-110	-102	<u>-200</u>	-55	-67	-4	+6	+15	+52	+68	+74	+72	+64	+63
April	<u>+81</u>	+60	+63	+62	+28	-6	-26	-60	-78	-18	-74	<u>-88</u>	-62	-60	-47	-12	+6	+14	+27	+27	+27	+32	+55	+48
May	+74	<u>+95</u>	+86	+70	+26	-14	-24	<u>-90</u>	-82	-57	-60	<u>-77</u>	-52	-60	-84	-86	-4	-16	+39	+43	+76	+82	+80	+36
June	+58	<u>+66</u>	+62	+61	+2	-17	-15	<u>-132</u>	-27	-64	-65	-26	-26	-46	-50	+8	+7	+16	+15	+24	+30	+38	+43	+40
July	+103	<u>+118</u>	+117	+63	+73	-19	-87	-10	-172	-177	<u>-226</u>	-151	-69	-1	+1	-8	+17	+34	+40	+58	+61	+70	+80	+84
August	+91	<u>+138</u>	+115	+58	-6	-111	-86	-78	-77	<u>-135</u>	-86	-35	-111	-27	-16	-43	-8	+12	+26	+45	+58	+64	+102	+111
September	+54	+84	+53	+23	+10	-74	-131	-60	-100	-8	<u>-134</u>	-54	-78	-86	-104	-14	+16	+57	+85	+82	+87	+109	<u>+114</u>	+69
October	+83	+99	+52	-8	-22	-13	-80	-105	-97	-85	<u>-166</u>	-94	-59	-9	-28	-74	-20	+20	+20	+76	+101	+105	+106	<u>+128</u>
November	+87	+71	<u>+95</u>	+87	+80	-6	-65	-71	-110	-102	-120	-90	<u>-185</u>	-120	-13	+22	+34	+42	+52	+65	+69	+65	+73	+63
December	+30	+21	+21	<u>+32</u>	+30	+18	-2	-16	-15	-32	<u>-52</u>	-36	-50	-49	-26	-5	0	+9	+15	+22	+31	+23	+27	
Year	+64	<u>+79</u>	+78	+57	+32	-12	-44	-68	-94	-79	<u>-105</u>	-71	-84	-54	-43	-22	+3	+16	+38	+46	+58	+65	+71	+68
Winter	+52	+55	<u>+71</u>	+66	+53	+15	-14	-52	<u>-101</u>	-84	-85	-57	-88	-76	-30	-8	+5	+10	+26	+33	+48	+51	+53	+50
Equinox	+59	+78	+68	+42	+19	-11	-64	-74	-90	-45	<u>-121</u>	-84	-100	-52	-62	-26	+2	+26	+58	+63	+71	+80	<u>+85</u>	+78
Summer	+81	<u>+104</u>	+95	+63	+24	-40	-54	-78	-91	-108	<u>-109</u>	-72	-64	-34	-37	-32	+2	+12	+30	+42	+55	+64	+75	+68

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

Table 1 Meanook

H = 12,000  $\gamma$  +

January 1954

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	885	875	879	879	876	875	876	875	832	853	867	879	883	882	882	882	877	876	875	877	879	879	883	886	888	
2 D	901	894	879	894	890	886	933	887	868	857	832	792	825	799	698	807	879	839	856	856	872	879	871	872	857	
3	875	875	878	872	878	876	876	876	870	856	863	855	867	870	872	871	864	864	864	867	863	876	872	869	870	
4 Q	875	878	879	875	878	878	875	875	870	872	871	872	875	875	872	872	870	866	867	872	872	875	879	883	874	
5	886	885	881	882	880	878	875	871	871	873	876	875	876	876	884	886	877	871	865	863	861	854	842	882	874	
6	886	879	877	878	879	894	864	854	875	870	859	861	863	879	889	890	879	879	864	859	862	867	870	876	873	
7	879	879	878	874	871	872	869	869	872	872	875	875	879	879	889	883	885	879	875	864	858	863	871	875	874	
8	879	859	878	879	875	866	862	842	786	726	875	879	878	878	882	886	878	871	867	867	867	875	879	879	863	
9	870	878	878	878	874	874	878	878	871	870	869	869	858	850	878	886	885	877	868	863	851	868	877	878	872	
10 Q	885	886	886	886	876	875	876	872	862	862	871	878	855	865	883	894	886	879	871	869	870	877	879	879	876	
11	883	879	883	886	887	895	879	870	864	839	878	883	878	882	883	883	878	868	861	863	863	864	872	881	875	
12	881	879	883	884	886	879	876	879	878	875	829	866	890	890	878	838	851	879	855	855	864	872	862	879	871	
13	878	877	878	893	892	886	892	878	877	863	800	862	878	886	878	878	874	869	869	867	865	864	876	878	873	
14	884	885	882	882	877	875	871	869	874	870	871	876	886	885	886	886	885	878	870	870	869	875	874	878	877	
15	877	884	884	884	881	876	865	862	892	875	873	869	876	873	884	884	885	888	885	885	877	878	881	868	879	
16	876	884	884	884	873	873	876	870	873	873	869	876	874	870	876	877	875	870	838	864	874	873	860	873	872	
17	878	878	878	874	874	878	878	877	878	871	869	874	866	878	878	874	877	862	854	876	871	874	874	877	874	
18	878	882	878	878	885	878	878	887	877	874	871	877	850	867	882	885	885	878	874	878	885	885	855	863	876	
19 D	889	943	879	871	876	877	877	886	846	777	789	739	870	879	878	870	851	807	777	839	837	952	883	878	857	
20 D	891	884	888	885	875	873	874	884	862	820	860	838	860	873	849	858	861	849	859	866	867	871	874	874	866	
21 D	866	866	890	893	890	884	888	877	882	870	865	861	845	884	874	870	868	868	857	876	873	873	875	877	874	
22	877	900	885	869	877	883	866	797	855	795	866	882	874	877	876	867	875	862	858	858	859	867	871	877	866	
23 D	878	878	869	878	881	874	878	831	730	870	855	831	861	878	860	867	853	850	854	854	854	863	874	874	858	
24	871	874	882	882	882	878	874	869	871	874	869	869	869	871	880	879	870	860	853	853	856	873	871	878	871	
25	884	886	886	878	876	876	872	872	872	870	872	871	876	875	876	876	872	867	866	860	859	852	870	876	872	
26 Q	879	871	875	875	878	876	875	871	871	871	872	872	872	872	872	862	870	852	864	867	870	871	872	878	871	
27	880	879	879	879	878	858	873	873	873	873	876	873	857	873	879	877	885	887	880	876	876	876	876	881	876	
28 Q	880	884	880	880	880	877	887	880	879	879	863	871	880	881	884	880	880	878	870	870	870	870	870	880	877	
29 Q	881	880	871	880	877	878	864	872	872	872	873	874	877	879	871	871	877	873	874	874	869	877	881	885	875	
30	882	881	874	875	875	874	878	870	872	862	874	874	874	878	886	878	874	875	872	874	873	872	875	875	875	
31	880	887	880	880	878	877	877	876	878	876	873	864	871	880	883	863	872	880	880	879	873	869	873	865	876	
Mean	880	882	880	880	879	877	877	869	863	857	862	862	869	874	872	874	874	868	863	866	866	874	872	876	872	



**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 2 Meanook

D = 24° E + . . .'

January 1954

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	30.7	32.0	32.8	32.0	32.4	34.2	31.4	35.3	28.9	34.3	35.3	33.2	33.3	33.2	33.4	33.4	34.3	33.4	33.3	31.3	29.4	29.4	29.9	29.5	32.3	
2 D	28.8	27.4	30.5	31.9	31.4	32.6	38.3	26.1	32.3	37.3	30.4	27.5	35.3	29.4	17.6	32.5	36.3	24.4	29.5	25.0	28.4	29.5	28.4	32.3	30.1	
3	32.4	32.4	34.2	33.8	33.9	32.8	33.8	35.3	25.9	29.2	37.3	35.6	35.3	37.3	36.5	36.2	34.4	33.8	32.7	31.4	30.9	31.2	31.9	33.2	33.4	
4 Q	33.3	33.4	33.8	33.8	33.4	33.0	32.3	31.6	32.4	33.2	34.3	33.3	33.8	34.3	34.3	34.8	35.4	34.3	32.4	31.4	30.5	30.6	31.4	31.9	33.0	
5	31.9	32.8	34.3	33.8	33.3	32.9	32.4	32.4	32.4	33.2	32.4	34.3	35.3	36.3	38.4	38.2	36.3	35.3	32.3	29.9	28.3	24.0	22.4	36.1	32.5	
6	31.5	34.8	35.4	36.3	45.6	36.3	42.2	32.4	31.1	33.2	31.9	33.3	32.8	36.0	38.2	38.6	38.2	35.2	33.4	31.9	30.3	29.9	30.9	32.2	34.7	
7	33.2	33.4	34.3	35.8	36.8	37.1	31.5	32.2	30.9	31.4	32.2	33.3	33.2	34.4	36.3	34.8	31.9	30.3	27.4	25.9	27.5	28.4	30.4	31.9	32.3	
8	32.3	34.9	35.3	35.3	33.8	40.2	49.2	34.3	41.1	30.4	32.3	33.8	33.8	32.4	36.8	37.3	34.8	34.3	33.2	30.4	28.5	29.9	29.9	30.9	34.0	
9	31.3	32.3	34.0	34.4	34.3	32.9	35.3	33.2	29.3	32.3	33.2	33.8	31.4	30.4	38.9	39.2	36.4	34.3	33.8	33.3	31.6	30.8	30.9	32.2	33.3	
10 Q	33.2	33.3	34.7	34.4	34.4	34.3	34.3	32.8	30.9	31.5	33.2	33.8	30.3	28.5	35.3	36.3	35.3	34.4	32.4	31.9	30.3	29.9	30.9	32.3	32.9	
11	32.4	33.3	33.8	33.8	34.5	39.7	28.3	36.3	31.5	26.4	34.3	33.0	34.3	34.8	34.6	35.4	36.3	36.3	34.8	32.0	30.3	30.4	30.4	30.9	33.2	
12	31.4	32.3	33.8	34.3	34.0	34.0	33.8	32.3	31.7	32.6	29.3	31.2	35.4	35.3	36.3	29.1	29.4	26.9	22.5	19.1	23.0	27.9	28.5	29.3	30.6	
13	29.2	30.3	31.5	34.2	34.3	35.4	39.7	36.9	31.9	31.5	26.4	34.3	35.8	37.3	36.8	35.3	35.2	33.9	32.8	31.9	30.9	30.5	31.0	33.2	33.3	
14	32.4	32.4	34.2	33.8	33.3	33.3	34.3	34.3	33.3	34.3	33.2	31.7	32.3	32.3	34.3	35.3	35.2	35.3	32.9	29.5	28.9	29.8	29.9	31.9	32.8	
15	31.9	31.5	33.3	32.3	33.3	33.3	34.8	28.4	36.8	32.3	34.3	35.4	33.2	29.5	32.8	35.3	35.4	35.4	33.0	31.9	32.0	30.9	31.9	31.9	32.9	
16	33.3	29.9	31.8	31.8	32.7	32.8	32.8	32.3	33.3	33.3	33.8	36.3	36.2	29.5	32.3	34.5	34.9	34.3	29.4	24.9	27.8	28.8	31.4	31.9	32.1	
17	32.8	32.3	32.8	32.8	31.8	31.7	33.8	30.9	31.9	32.7	33.7	35.3	31.8	33.9	34.8	33.7	33.3	29.4	23.6	27.8	28.8	30.1	31.0	31.8	31.8	
18	31.4	31.8	34.2	36.5	32.7	30.9	31.9	30.9	30.6	32.8	34.8	32.7	33.7	36.8	32.8	35.3	35.0	33.3	31.4	31.7	29.4	28.9	28.8	33.8	32.6	
19 D	31.9	33.8	32.7	32.8	31.0	31.7	31.9	33.8	30.4	40.1	35.7	39.8	38.8	32.0	34.7	36.7	35.3	30.4	09.2	10.2	23.5	21.4	23.0	31.0	30.5	
20 D	32.8	32.8	38.8	33.0	32.0	31.1	31.5	38.7	37.8	30.8	37.6	31.8	33.3	38.7	37.6	39.2	34.8	30.9	31.4	31.0	28.9	29.8	30.9	31.9	33.6	
21 D	32.3	37.7	34.8	31.9	29.8	39.7	34.9	29.9	29.8	29.8	32.8	35.8	35.7	32.0	34.9	35.3	34.9	32.9	28.0	27.4	26.9	28.9	31.5	32.7	32.5	
22	33.3	33.8	29.9	38.7	39.2	31.0	32.9	31.0	31.8	26.9	29.4	32.8	35.3	36.3	33.1	34.8	36.8	34.8	31.8	29.4	27.8	27.3	29.1	31.0	32.4	
23 D	31.9	30.7	30.9	45.6	32.3	33.0	36.8	12.4	07.6	34.3	34.5	28.8	31.1	32.8	32.8	34.9	36.1	33.8	32.0	30.7	29.6	29.6	31.0	29.9	31.0	
24	30.8	34.8	34.6	34.1	34.5	32.9	34.7	35.8	32.3	31.4	33.3	33.3	33.8	33.8	33.8	35.8	36.1	35.3	33.3	30.3	29.1	29.0	29.8	30.4	33.0	
25	31.4	31.8	31.7	31.8	32.8	32.9	31.9	31.8	31.8	31.4	31.8	31.9	32.8	29.9	31.4	34.2	33.9	31.7	29.8	29.9	30.0	28.0	29.0	29.8	31.4	
26 Q	29.0	29.4	31.1	31.0	31.9	32.9	32.8	31.8	32.0	33.2	32.9	33.3	33.9	33.3	33.3	33.8	34.8	31.9	30.8	29.3	28.9	29.3	30.4	30.9	31.8	
27	31.8	31.8	32.5	32.2	32.3	32.1	32.8	32.9	33.7	33.2	33.2	34.7	34.8	30.9	34.8	35.2	34.9	32.9	31.8	30.3	29.9	29.0	29.0	30.0	32.4	
28 Q	30.9	31.0	31.8	31.8	31.8	31.7	30.9	31.0	32.0	33.8	30.9	30.9	32.7	32.9	33.7	33.7	33.8	32.7	30.8	29.7	29.9	29.9	30.0	29.4	31.6	
29 Q	30.4	31.0	31.4	31.4	31.7	31.7	32.7	33.7	32.7	32.3	31.9	33.3	32.9	31.8	32.8	33.3	33.3	30.3	29.0	28.8	29.0	29.4	29.3	29.0	31.4	
30	29.4	30.8	29.9	31.4	31.6	31.0	34.7	30.1	30.9	31.9	32.7	30.9	32.8	31.6	32.8	32.8	31.9	30.9	28.9	27.4	28.9	28.0	25.9	26.4	30.6	
31	29.4	28.9	31.4	31.4	34.8	31.8	31.9	33.3	32.8	25.9	36.3	38.2	35.6	36.9	32.9	33.9	31.0	27.9	28.0	28.0	29.0	27.8	25.0	26.0	31.1	
Mean	31.6	32.2	33.1	33.8	33.6	33.6	34.2	32.1	31.3	32.2	33.1	33.5	33.9	33.4	34.1	35.1	34.7	32.8	30.3	28.8	28.9	29.0	29.5	31.2	32.3	

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

Table 3 Meanook

Z = 58,000  $\gamma$  +

January 1954

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	795	807	810	808	819	825	832	828	770	769	787	804	799	798	798	798	798	794	794	794	794	794	799	799	801	
2 D	805	811	826	821	832	826	815	800	821	803	773	713	708	746	636	698	787	788	781	780	795	806	805	804	782	
3	814	814	817	816	816	811	807	804	772	783	801	795	800	801	810	812	807	798	798	798	798	811	811	806	804	
4 Q	807	808	806	806	806	807	807	807	802	802	802	802	801	800	800	801	801	801	806	806	806	806	806	806	804	
5	808	808	808	806	806	806	806	806	806	806	806	802	798	802	796	796	802	802	803	802	802	802	807	825	829	806
6	818	818	821	818	836	838	803	779	785	802	793	780	763	791	798	802	807	803	803	803	804	806	807	807	804	
7	807	807	807	808	808	808	804	797	791	791	805	805	803	803	792	780	769	777	776	786	803	804	814	809	798	
8	815	822	822	815	814	812	799	774	692	683	760	799	795	803	803	798	792	802	806	805	804	804	806	807	793	
9	808	817	817	815	815	823	815	810	809	809	804	799	780	785	792	803	797	799	802	803	803	803	803	803	805	
10 Q	804	805	805	805	805	808	805	805	796	791	795	800	783	783	783	793	792	792	798	798	798	800	800	800	798	
11	800	803	805	806	804	809	775	789	789	761	781	804	798	798	804	804	800	800	800	800	800	805	809	810	798	
12	809	809	809	809	809	809	809	805	798	796	789	724	725	776	799	791	770	724	761	777	758	775	792	800	807	784
13	819	832	874	868	836	844	786	817	821	806	716	840	793	796	802	802	802	802	802	802	802	802	816	812	812	
14	811	816	810	811	810	810	808	808	790	792	793	793	796	797	805	799	797	799	801	805	805	806	806	806	803	
15	810	832	821	817	812	811	816	808	797	817	808	799	799	794	805	810	812	812	819	819	819	820	822	823	813	
16	836	839	828	825	823	822	832	812	826	820	816	807	800	809	807	813	807	807	807	806	811	817	817	812	817	
17	811	809	813	817	819	813	816	816	817	813	810	798	784	789	806	806	806	794	791	798	802	811	811	811	807	
18	812	809	820	822	823	833	839	826	829	817	812	807	755	754	802	803	794	795	800	809	807	811	836	858	811	
19 D	851	926	862	829	818	834	833	842	755	792	740	796	812	809	809	807	785	773	786	788	832	837	869	870	819	
20 D	858	862	862	831	826	828	821	841	807	780	823	812	801	803	795	803	807	802	824	831	829	819	817	823	821	
21 D	834	857	851	881	842	859	836	833	819	828	831	821	803	841	829	834	828	829	824	828	831	837	856	861	837	
22	851	851	849	869	863	835	835	738	786	752	801	827	817	808	808	804	809	809	808	819	824	822	822	825	818	
23 D	823	824	857	885	853	829	813	685	619	761	808	793	802	808	813	820	820	818	821	813	813	819	822	822	806	
24	819	821	830	827	823	821	813	800	807	814	812	811	811	808	815	803	803	803	819	815	815	815	815	815	814	
25	816	816	816	816	816	816	816	816	816	816	810	810	800	805	805	797	805	805	809	805	805	805	810	810	810	
26 Q	814	813	816	819	828	828	816	810	808	802	802	802	800	801	809	811	811	803	803	803	803	809	809	809	810	
27	812	812	811	811	811	811	812	805	804	804	804	801	790	787	776	785	785	786	796	798	801	808	808	809	801	
28 Q	810	810	810	810	810	810	767	811	809	806	801	782	798	799	799	799	799	798	798	798	798	806	806	806	802	
29 Q	806	806	806	807	811	822	822	811	800	802	802	802	802	802	802	802	802	798	806	805	805	804	804	804	806	
30	799	799	799	799	799	799	801	802	802	802	819	793	787	782	788	797	798	798	789	792	792	804	806	805	780	
31	816	814	814	818	841	836	838	823	823	796	793	793	788	786	789	790	805	811	800	800	800	812	813	813	809	
Mean	816	822	823	822	820	821	813	803	792	794	795	797	792	796	795	798	798	799	801	802	806	810	814	816	806	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4 Meanook

January 1954

Day	Horizontal Intensity					Declination					Vertical Intensity										
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range						
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° E +		24° E +			58,000 $\gamma$ +		58,000 $\gamma$ +								
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$			
1	06	05	905	08	52	793	112	05	53	40.1	08	45	22.5	17.6	07	16	845	08	43	723	122
2 D	06	25	1006	15	00	597	409	06	38	60.9	14	48	07.1	53.8	06	28	913	15	05	561	352
3	08	16	914	09	02	820	94	07	43	43.5	09	00	14.1	29.4	02	55	822	09	04	735	87
4 Q	23	57	889	08	35	859	30	16	15	36.3	08	28	29.4	06.9	07	30	810	08	40	798	22
5	23	26	905	22	20	799	106	14	55	39.7	22	18	16.3	23.4	23	28	851	14	35	788	63
6	05	29	927	07	20	818	109	04	40	51.5	07	15	25.7	25.8	05	42	881	12	25	746	135
7	16	52	890	20	50	851	39	05	07	43.2	19	25	23.5	19.7	22	52	822	16	20	759	63
8	15	33	897	09	18	546	351	08	52	53.5	09	25	22.0	31.5	01	30	830	09	03	574	256
9	16	05	896	13	00	835	61	14	58	41.5	08	12	25.8	15.7	08	05	819	12	53	761	58
10 Q	15	25	900	09	15	847	53	06	13	38.2	22	05	27.1	11.1	05	45	813	14	00	765	48
11	05	07	930	09	39	806	124	05	52	53.5	09	45	19.1	34.4	05	32	829	09	53	709	120
12	16	55	915	15	47	794	121	14	23	38.7	19	37	17.1	21.6	02	30	814	10	42	687	127
13	06	40	921	10	40	764	157	06	32	53.5	10	35	20.7	32.8	02	55	896	06	55	691	205
14	23	56	901	19	52	860	41	06	41	37.0	20	29	25.9	11.1	23	57	815	08	30	780	35
15	08	05	926	07	50	863	63	08	08	43.2	07	47	16.9	60.1	01	46	846	07	50	703	143
16	20	10	892	19	00	830	62	12	23	38.2	18	56	22.0	16.2	01	00	848	12	02	789	59
17	19	30	886	18	15	836	50	11	52	37.7	18	47	21.0	16.7	06	30	822	12	45	771	51
18	13	45	909	13	03	811	98	07	00	41.2	07	30	24.0	17.2	22	50	934	13	05	696	238
19 D	01	28	1050	10	13	709	341	09	35	44.6	18	55	01.6	46.2	01	40	985	09	02	561	424
20 D	00	35	951	09	34	787	164	07	32	48.1	09	06	14.6	33.5	02	20	884	13	07	743	141
21 D	05	17	918	12	38	824	94	05	25	59.1	07	25	23.0	36.1	05	18	922	12	40	781	141
22	10	36	899	07	42	671	228	03	55	51.8	07	33	03.8	48.0	03	45	895	07	45	590	305
23 D	06	42	910	08	45	684	226	03	15	56.9	08	02	06.0	62.9	03	07	917	08	12	547	370
24	07	33	888	07	20	842	46	07	03	53.0	21	05	27.8	25.2	02	30	837	07	15	760	77
25	02	00	894	17	29	839	55	17	20	36.8	18	15	24.2	12.6	17	40	825	14	00	795	30
26 Q	00	08	887	18	50	859	28	16	20	35.8	20	50	26.9	08.9	05	19	836	17	40	801	35
27	00	45	895	12	37	843	52	12	08	37.3	18	53	27.2	10.1	00	45	816	14	10	765	51
28 Q	06	30	910	10	48	846	64	06	06	37.7	06	40	23.7	14.0	08	03	823	06	42	716	107
29 Q	23	22	888	17	05	865	23	07	15	34.8	18	51	27.4	07.4	06	05	838	17	05	796	42
30	21	10	889	21	35	857	32	06	14	39.2	22	28	24.5	14.7	07	13	813	13	20	779	34
31	10	05	923	09	47	755	168	09	17	40.7	09	40	11.7	29.0	09	09	858	09	46	725	133
Mean			913			797	116			44.1			18.5	25.6			853			722	131
No. days			31			31	31			31			31	31			31			31	31

MEANOOK MAGNETIC OBSERVATORY 1953 1954

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

Table 5 Meanook

H = 12,000  $\gamma$  +

February 1954

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	872	877	889	919	937	979	966	775	924	896	838	830	834	791	779	693	781	802	840	877	878	857	879	870	858
2	866	884	924	889	903	900	908	889	849	850	834	773	780	734	809	834	866	869	866	868	873	874	871	870	858
3	897	896	888	885	870	868	874	850	866	802	905	740	701	830	874	872	873	865	857	858	859	870	874	872	856
4	877	877	880	866	881	873	879	872	858	861	861	874	881	874	869	858	866	864	855	856	866	877	877	871	870
5 Q	862	863	874	874	878	877	877	879	872	866	858	874	875	872	873	881	865	861	841	842	858	861	866	867	867
6 Q	872	878	877	880	866	873	877	874	866	871	874	874	877	881	878	874	871	865	861	866	867	872	881	885	873
7 Q	877	871	882	881	881	885	888	871	880	880	880	881	881	881	881	881	877	854	857	858	864	878	887	878	876
8 Q	881	881	879	880	880	880	877	877	877	874	874	877	870	841	881	881	873	863	863	855	851	866	877	877	872
9	879	880	880	881	880	880	880	852	855	877	887	884	880	879	864	865	860	864	863	858	862	863	871	873	872
10	880	887	880	872	873	879	856	801	873	864	863	865	821	856	880	880	883	872	865	869	862	876	873	876	867
11	878	878	879	897	886	879	872	871	872	864	870	878	879	887	886	885	879	863	843	851	855	831	853	864	871
12 Q	874	874	867	868	869	869	870	853	868	863	867	871	874	871	871	874	874	874	874	874	874	870	866	866	870
13	871	876	879	879	876	875	866	848	835	816	849	870	876	864	865	878	879	877	870	867	868	864	867	875	866
14	877	880	880	877	877	873	876	880	879	871	852	802	872	873	873	864	887	887	869	849	840	855	864	866	868
15 D	873	877	878	887	880	974	938	897	877	873	829	662	629	856	815	535	856	874	849	846	840	848	862	880	839
16	880	887	882	891	892	875	876	867	865	852	860	867	857	856	777	676	857	835	865	836	836	862	872	887	855
17	915	904	895	954	884	866	864	848	826	742	696	636	637	730	695	789	879	864	844	807	828	855	865	856	820
18	874	874	878	885	885	879	874	872	873	870	809	513	840	896	853	849	841	726	842	861	874	856	864	869	844
19	874	876	874	878	881	872	756	709	868	857	827	787	787	841	878	853	874	865	847	842	830	857	858	872	845
20	867	880	880	879	877	880	874	874	874	872	872	865	879	876	866	870	869	865	858	857	855	861	862	869	870
21	870	885	879	872	871	880	885	881	872	834	773	856	871	866	822	822	830	822	736	849	874	843	853	1010	856
22 D	1080	897	908	974	903	881	944	881	725	590	607	628	763	701	712	832	888	872	841	834	823	849	873	873	828
23 D	882	897	890	888	921	898	875	858	866	942	770	819	846	827	823	795	741	819	870	867	852	850	842	866	854
24	865	875	870	870	870	872	871	866	835	872	835	662	711	819	866	874	877	857	857	851	851	862	862	880	847
25	880	874	874	867	870	874	873	871	865	849	819	857	853	842	880	857	854	854	850	857	850	849	858	885	861
26 D	886	882	878	859	867	875	865	859	803	835	431	541	914	902	878	856	833	863	858	820	812	811	968	898	833
27 D	881	882	875	867	866	906	880	773	431	514	597	655	780	873	842	692	733	858	850	859	866	875	881	879	796
28	920	891	875	873	875	871	859	828	842	841	851	860	850	835	841	866	870	874	852	857	857	864	857	862	861
29																									
30																									
31																									
Mean	886	882	882	885	882	885	879	853	843	836	810	789	826	845	844	828	855	855	852	853	854	859	871	878	855

**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 6 Meanook

D = 24° E + . . .'

February 1954

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	26.9	27.9	29.9	25.1	35.7	30.0	09.2	30.0	32.8	31.9	30.8	35.9	34.3	35.8	40.6	26.8	20.0	19.1	13.1	28.3	26.9	26.0	29.0	26.9	28.4
2	29.8	29.4	34.4	37.6	38.4	32.0	39.2	35.9	33.8	33.5	33.9	38.7	32.3	34.8	35.9	34.2	33.9	31.8	29.4	28.4	28.7	28.7	28.5	28.5	32.6
3	30.9	30.9	34.6	31.3	31.4	31.4	30.0	38.7	30.3	51.1	35.8	33.3	31.8	34.3	35.2	37.6	34.8	32.7	31.0	30.1	28.0	28.4	29.0	30.4	33.0
4	31.4	32.7	30.9	44.6	33.8	31.0	29.3	29.8	29.0	25.7	28.0	32.7	35.3	35.1	33.9	33.7	33.2	31.1	27.9	27.0	27.0	27.9	29.4	30.4	31.2
5 Q	30.4	31.4	31.9	32.3	32.8	31.9	31.9	30.2	31.2	31.7	30.9	32.9	35.8	34.7	36.4	33.9	33.8	31.4	26.0	21.4	23.5	26.4	28.0	29.4	30.8
6 Q	29.4	30.7	31.0	32.0	34.2	35.7	29.9	32.8	31.4	31.8	31.8	32.9	32.9	34.2	33.3	33.8	33.7	33.3	31.9	30.9	29.4	28.4	28.4	28.9	31.8
7 Q	29.1	30.9	31.8	32.8	33.8	32.1	31.0	29.9	31.8	31.8	32.3	32.8	32.8	33.9	33.8	33.9	35.9	35.8	31.8	27.0	23.0	23.0	25.5	25.8	30.9
8 Q	26.4	26.8	28.8	33.7	33.3	32.3	32.4	32.3	31.7	31.5	32.9	33.0	35.3	27.9	33.8	38.2	39.7	38.7	36.2	33.8	27.9	28.9	26.9	28.9	32.1
9	29.9	30.9	32.8	33.8	33.0	34.8	38.8	31.0	36.8	34.3	32.1	33.3	33.3	34.8	33.8	35.3	35.2	34.7	32.5	31.4	30.9	29.9	29.9	30.4	33.1
10	31.4	32.0	31.0	31.6	31.9	31.8	30.8	23.9	35.8	33.8	30.7	33.5	29.4	28.9	35.8	36.8	35.0	32.8	32.7	28.9	26.9	28.4	27.4	27.4	31.2
11	27.0	27.0	28.9	32.8	31.0	32.8	35.9	36.8	36.8	35.3	35.3	35.8	34.8	35.3	35.8	36.7	37.7	38.6	28.6	27.4	26.4	25.9	23.1	28.9	32.2
12 Q	32.8	34.2	32.8	32.8	32.8	32.8	32.9	35.3	32.9	36.8	35.7	36.3	35.8	33.0	32.8	32.8	33.0	32.1	30.4	29.9	28.9	28.9	28.9	27.0	33.6
13	28.9	30.1	32.7	31.4	31.9	31.8	31.8	42.7	34.8	35.8	28.0	31.4	33.8	32.8	29.9	31.8	33.8	33.8	30.9	30.4	29.4	29.2	30.4	31.4	32.0
14	30.9	31.0	30.9	30.9	31.5	31.5	32.2	33.3	32.9	33.7	33.9	26.9	32.8	37.6	33.8	28.9	31.8	35.8	32.8	29.9	27.4	25.0	25.8	29.9	31.2
15 D	30.0	31.0	32.3	32.1	31.4	54.0	34.8	30.1	30.9	29.5	35.5	31.7	23.9	37.6	39.2	21.0	29.4	36.8	29.4	29.0	26.4	26.9	30.4	28.9	31.8
16	28.0	31.9	35.9	33.3	34.3	53.8	32.7	31.6	31.0	31.0	30.9	32.8	32.7	33.8	27.9	23.0	27.3	25.4	27.3	31.0	28.6	27.3	23.4	25.4	30.8
17	28.9	30.3	31.9	41.2	31.0	31.1	31.9	35.8	33.8	35.8	20.0	33.8	27.3	42.7	25.9	22.4	33.8	33.8	33.3	28.9	26.0	27.0	30.9	28.4	31.0
18	30.0	29.9	34.4	36.7	31.2	36.8	29.0	30.8	31.8	30.9	34.8	16.6	38.6	37.8	41.7	35.3	28.8	29.0	27.9	28.0	27.9	28.9	29.9	30.8	31.5
19	31.4	31.9	31.9	32.8	31.8	33.9	02.1	03.8	41.2	31.8	31.8	34.1	30.9	36.8	40.2	38.6	35.8	35.8	33.9	31.4	29.9	29.8	28.4	29.9	30.2
20	30.9	32.8	31.8	33.2	32.8	35.9	34.3	28.9	30.9	32.8	31.1	30.9	33.5	33.8	33.5	32.9	34.3	33.9	31.5	30.3	29.9	29.0	29.0	29.8	32.0
21	30.3	31.0	34.8	35.4	33.3	33.3	34.8	34.9	33.8	32.8	17.2	34.8	36.9	39.4	33.3	37.8	39.8	33.7	24.1	09.2	23.3	28.0	28.0	25.4	31.0
22 D	33.3	36.3	28.9	53.0	41.0	41.6	28.0	30.3	31.4	22.0	10.2	39.7	49.9	27.0	34.3	30.9	35.8	37.8	36.1	32.3	33.0	31.2	27.9	27.0	33.3
23 D	28.0	25.0	52.5	35.3	31.2	46.7	33.8	33.7	38.7	36.9	35.3	28.4	27.4	28.9	30.2	31.4	28.0	25.1	32.8	32.0	30.9	33.1	28.9	25.4	32.5
24	26.2	31.0	22.1	32.8	32.9	33.3	32.8	33.1	32.8	34.7	31.0	21.5	32.3	43.8	31.8	34.7	35.8	33.8	32.9	29.4	28.2	29.4	30.4	30.4	32.0
25	30.4	31.0	33.2	34.3	39.7	37.7	31.2	31.8	32.7	30.3	28.3	33.0	34.3	33.9	35.8	36.3	36.3	31.4	30.4	29.0	28.0	27.0	28.3	28.3	32.2
26 D	30.8	30.0	31.4	37.7	33.3	30.4	33.1	30.9	38.8	40.1	32.3	43.2	38.7	36.3	38.8	40.6	31.8	28.4	31.4	30.8	27.8	23.0	28.0	29.4	33.2
27 D	29.1	29.9	30.8	35.3	35.8	35.8	32.3	26.9	04.3	15.0	08.2	32.8	27.0	32.8	35.9	29.0	16.1	28.9	25.9	26.9	26.4	28.4	27.9	27.9	27.0
28	26.9	30.0	30.9	32.9	34.8	32.8	30.4	27.8	31.3	29.3	32.3	34.2	33.3	31.9	33.5	29.2	35.9	34.3	33.3	31.8	30.8	30.0	28.9	28.9	31.4
29																									
30																									
31																									
Mean	29.6	30.6	32.7	35.6	33.2	35.3	30.8	31.2	32.3	32.5	29.6	32.4	33.4	34.6	34.5	32.8	32.9	32.5	30.2	28.7	27.9	28.0	28.2	28.6	31.6

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

Table 7 Meanook

z = 58,000  $\gamma$  +

February 1954

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	822	821	821	856	879	879	688	754	790	821	780	789	786	734	711	722	705	719	727	789	800	802	820	833	785
2	856	857	911	845	857	867	866	823	812	811	785	732	766	767	752	794	794	794	797	799	812	811	811	933	819
3	867	867	864	834	823	813	802	799	677	679	841	772	700	756	797	797	808	808	811	811	812	816	822	822	800
4	825	825	835	847	823	824	758	794	795	797	793	806	808	804	808	801	806	806	801	803	813	813	813	813	809
5 Q	813	813	812	812	812	813	824	819	817	794	781	778	797	794	791	812	805	800	797	798	801	805	813	813	805
6 Q	817	817	815	819	819	824	817	813	790	801	803	801	801	801	801	801	801	801	808	808	808	808	808	808	808
7 Q	804	807	807	807	807	806	805	807	805	805	805	804	801	802	801	802	803	802	801	801	800	802	810	809	804
8 Q	814	826	846	829	819	818	805	804	804	801	792	791	791	768	784	801	802	802	808	808	806	809	809	809	806
9	809	814	815	817	817	816	816	769	745	762	794	805	804	805	798	809	807	790	795	805	808	807	807	807	801
10	815	815	815	815	825	838	836	748	815	782	768	792	769	769	790	797	795	790	790	801	808	810	814	814	800
11	815	841	872	851	841	831	821	797	797	803	803	810	802	803	803	803	803	792	796	808	805	807	824	819	814
12 Q	821	820	807	803	803	806	814	795	814	808	803	808	806	802	814	810	810	806	806	806	808	813	814	820	809
13	824	820	820	820	818	820	827	818	778	750	777	788	798	798	809	806	811	808	809	809	809	809	815	815	806
14	815	812	814	814	815	815	822	820	804	798	771	709	767	770	764	730	756	780	792	792	798	809	811	820	792
15 D	816	804	807	814	820	827	895	856	816	804	770	441	635	759	686	556	742	787	798	809	816	822	831	827	772
16	828	905	895	872	850	832	826	808	808	788	803	804	804	784	754	672	793	793	805	808	828	834	840	872	817
17	930	970	868	871	833	821	821	794	769	624	565	577	739	704	751	701	795	805	832	832	832	842	843	827	789
18	827	836	848	839	826	829	806	784	800	804	749	604	751	818	789	805	794	794	817	840	824	816	816	813	801
19	817	811	811	813	810	824	762	685	796	817	860	740	727	761	805	805	829	822	819	816	819	828	818	818	801
20	824	823	814	814	813	809	799	776	782	799	809	797	810	806	805	807	807	811	807	810	812	814	812	812	807
21	812	819	822	825	825	824	829	810	770	629	732	795	784	750	746	772	795	753	830	830	830	830	859	912	799
22 D	920	909	911	820	830	852	834	831	757	746	627	685	695	774	800	819	842	842	819	820	828	851	849	871	814
23 D	863	892	888	861	864	838	849	804	732	708	719	785	798	782	784	768	758	796	846	831	829	858	853	854	815
24	872	867	863	856	850	849	850	848	733	822	810	649	667	772	847	845	849	842	848	852	857	874	861	861	827
25	824	819	819	819	824	816	820	815	807	765	708	869	787	778	814	802	798	807	796	809	814	825	820	836	808
26 D	840	821	822	826	823	815	822	770	745	814	656	414	799	832	808	784	777	796	808	808	875	964	889	863	799
27 D	848	866	837	833	841	854	844	731	576	610	594	633	755	809	793	699	732	777	799	799	808	822	828	852	772
28	915	856	833	829	807	811	787	756	755	738	745	785	790	794	783	805	805	816	805	805	805	815	818	823	803
29																									
30																									
31																									
Mean	838	841	839	831	828	828	816	795	776	772	755	732	770	783	784	775	793	799	803	811	817	826	826	835	803



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8 Meanook

February 1954

Day	Horizontal Intensity						Declination						Vertical Intensity									
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum						
	12,000 $\gamma$ +		$\gamma$	12,000 $\gamma$ +		$\gamma$	24° E +		$\gamma$	24° E +		$\gamma$	58,000 $\gamma$ +		$\gamma$	58,000 $\gamma$ +		$\gamma$				
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$				
1	06	30	1198	06	45	426	772	06	42	60.4	07	00	41.5	101.9	05	55	947	06	45	501	446	
2	02	47	1016	12	06	685	331	02	56	54.7	04	47	20.5	34.2	03	45	984	11	50	701	283	
3	08	42	1006	12	15	528	478	09	43	56.0	08	52	07.3	63.3	02	10	900	08	50	579	321	
4	06	28	942	06	52	806	136	03	33	54.5	06	47	07.0	47.5	08	15	870	06	50	661	209	
5 Q	09	25	890	18	45	838	52	14	34	37.9	19	36	22.8	15.1	06	45	829	11	00	753	76	
6 Q	06	10	888	04	44	853	35	05	04	41.1	08	02	25.0	16.1	05	55	828	08	25	780	48	
7 Q	22	15	899	18	25	845	54	04	05	35.8	21	39	19.9	15.9	22	15	818	21	45	794	24	
8 Q	15	35	900	13	24	814	86	16	05	40.7	13	32	25.0	15.7	02	40	843	13	50	762	81	
9	06	32	902	07	42	822	80	06	31	46.1	07	08	24.5	21.6	15	50	829	08	30	701	128	
10	06	56	993	07	12	701	292	08	02	38.7	07	08	06.0	44.7	06	20	855	07	05	632	223	
11	03	30	910	21	15	822	88	17	36	42.5	22	10	14.4	28.1	02	15	901	07	50	767	134	
12 Q	07	10	888	07	40	802	86	07	03	46.9	07	38	18.6	28.3	00	30	830	07	40	755	75	
13	16	10	890	09	20	753	137	07	36	48.6	10	25	26.6	22.0	06	02	845	09	46	705	140	
14	16	25	898	11	15	728	170	13	20	40.2	11	33	23.0	17.2	06	10	828	11	17	644	184	
15 D	05	20	1165	11	55	171	994	05	23	72.7	12	00	06.0	78.7	05	16	930	12	48	259	671	
16	01	55	954	15	32	633	321	05	30	63.1	15	20	15.3	47.8	01	40	966	15	40	632	334	
17	03	37	1130	14	00	484	646	14	12	73.7	10	35	04.8	68.9	03	35	992	10	10	496	496	
18	06	23	917	11	10	407	510	12	10	49.6	11	16	05.1	54.7	19	36	875	11	02	548	327	
19	06	30	929	07	45	539	390	07	45	56.0	06	40	58.7	114.7	07	35	950	07	02	406	544	
20	13	00	900	20	23	841	59	05	41	43.0	07	35	22.7	20.3	00	45	833	07	42	764	69	
21	23	55	1165	15	28	664	501	15	47	50.5	19	10	06.0	56.5	23	59	999	10	45	535	464	
22 D	03	05	1206	09	37	409	797	03	45	86.8	10	30	-0.6	87.4	00	30	1036	09	45	576	460	
23 D	05	09	1081	10	36	694	387	02	45	73.1	17	00	19.3	53.8	02	05	949	08	55	657	292	
24	14	28	920	11	22	607	313	12	43	46.4	11	45	13.5	32.9	24	00	897	11	51	609	288	
25	23	08	908	10	40	794	114	04	45	47.5	10	20	23.7	23.8	23	14	854	09	40	694	160	
26 D	23	30	1044	10	30	134	910	10	50	82.5	10	26	40.5	123.0	10	17	1044	12	15	182	862	
27 D	00	50	945	08	30	189	756	11	40	61.9	08	44	36.5	98.4	23	57	926	09	30	414	512	
28	00	10	956	09	40	802	154	04	12	44.6	07	15	21.2	23.4	00	06	947	09	42	700	247	
29																						
30																						
31																						
Mean			980			635	345			53.4			05.0	48.4			904			615	289	
No. days			28			28	28			28			28	28			28			28	28	

MEANOOK MAGNETIC OBSERVATORY 1953 1954

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

Table 9 Meanook

H = 12,000  $\gamma$  +

March 1954

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	864	864	866	869	874	873	873	872	866	869	870	873	872	866	869	865	865	861	850	856	856	865	858	845	865	
2	874	872	888	905	924	908	886	819	858	845	783	866	879	876	874	874	865	849	830	845	858	869	871	858	866	
3 Q	871	871	861	865	908	874	874	877	874	872	868	866	863	857	866	870	857	855	848	852	861	864	877	874	868	
4	878	874	878	872	871	874	877	877	809	741	755	701	794	838	869	874	876	861	849	857	862	853	871	881	846	
5	877	902	913	905	881	888	889	880	827	771	775	636	744	783	849	869	877	857	849	847	856	872	869	866	845	
6	873	881	881	882	882	880	866	857	858	863	857	850	877	877	874	874	863	857	857	856	857	858	850	863	866	
7	873	896	906	898	878	878	880	873	859	709	732	727	823	823	867	866	874	854	858	857	851	867	871	859	849	
8	867	882	882	896	889	875	875	869	854	835	859	843	870	889	889	879	873	867	851	858	862	860	886	867	870	
9	869	881	874	880	887	905	897	874	861	645	787	874	881	866	866	877	856	791	752	803	861	877	878	874	851	
10	871	873	879	879	876	873	873	887	841	865	884	879	841	849	869	880	864	856	837	837	848	864	869	879	866	
11	896	915	903	968	1012	915	942	839	904	863	786	754	755	675	830	840	876	873	862	844	857	852	849	876	862	
12	888	880	878	877	888	874	900	896	880	880	885	871	806	819	881	877	858	858	857	856	849	858	858	869	868	
13	872	885	878	874	873	871	872	871	874	874	877	877	851	857	833	819	877	864	853	831	816	863	896	858	863	
14 D	881	891	928	974	912	903	415	716	819	787	795	819	863	857	837	689	685	770	864	859	871	858	841	897	822	
15 D	924	882	873	917	905	873	865	811	845	771	676	810	759	834	839	842	869	857	849	838	842	869	885	874	846	
16	888	881	878	881	896	878	874	692	725	670	801	866	803	736	822	866	861	854	841	826	841	880	881	889	835	
17	872	881	889	881	874	881	880	872	865	823	872	881	889	881	880	833	795	841	858	850	848	866	900	881	866	
18	913	1015	889	920	935	885	787	818	767	740	826	872	858	842	858	880	872	873	856	834	845	870	878	888	863	
19	869	878	886	886	878	885	885	883	876	885	886	882	871	808	788	861	854	855	850	860	855	866	870	882	867	
20 D	885	878	897	871	864	874	882	878	816	861	869	744	839	878	884	866	839	819	839	838	852	861	885	886	859	
21	886	872	872	875	870	870	871	861	816	821	864	878	886	878	879	871	864	855	848	847	839	848	875	883	864	
22	879	867	870	875	878	879	878	876	856	831	829	910	886	883	872	859	864	837	855	851	843	832	869	895	866	
23 D	919	879	902	902	887	879	836	945	801	718	768	749	702	745	734	836	876	859	824	824	843	838	934	1012	842	
24 D	912	919	885	887	887	887	852	676	598	610	750	852	876	875	865	837	852	926	786	815	876	876	880	887	836	
25	895	904	894	899	880	888	887	797	692	817	865	840	833	821	848	863	877	871	857	840	840	877	886	886	857	
26	884	891	865	873	891	886	900	888	857	719	844	794	774	837	873	864	852	843	844	849	848	838	879	880	853	
27 Q	880	899	879	876	879	870	870	774	774	857	812	867	864	870	864	867	867	866	852	848	844	860	865	884	858	
28 Q	876	872	880	884	884	884	879	875	870	877	875	873	876	887	880	877	868	860	862	862	860	859	873	875	874	
29 Q	871	877	887	888	884	884	882	880	880	873	884	887	874	862	871	879	880	872	872	868	871	871	867	866	876	
30	873	885	888	876	879	884	880	884	884	884	884	887	876	838	746	805	887	876	873	860	860	845	849	884	818	863
31	871	880	880	899	884	884	758	806	899	899	887	860	857	863	868	873	861	862	868	868	868	879	876	876	868	
Mean	882	888	885	891	891	883	858	846	832	809	829	835	839	838	855	859	858	855	846	846	852	862	875	878	858	

**DECLINATION**  
Mean values for periods of sixty minutes, Universal Time

Table 10 Meanook

D = 24° E + . . .'

March 1954

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	29.0	29.9	30.9	31.1	31.7	31.7	33.8	33.3	33.8	33.3	32.3	33.3	32.8	32.9	33.8	33.8	35.7	35.7	32.3	30.0	28.4	27.4	25.0	21.5	31.3
2	22.0	29.3	29.9	26.4	54.0	32.9	27.1	25.0	35.3	32.3	31.4	33.9	35.7	35.3	35.3	35.8	35.8	37.6	32.7	30.6	29.6	29.0	29.3	21.8	32.4
3 Q	32.8	30.9	31.9	31.4	32.8	35.8	31.8	31.8	32.9	33.8	33.3	34.0	35.3	35.4	34.9	35.3	33.3	34.8	31.5	29.0	27.8	28.0	28.9	30.2	32.4
4	30.8	31.4	31.4	31.4	34.3	33.7	32.9	32.8	34.3	35.5	37.8	29.0	35.3	32.8	33.8	38.7	37.8	36.2	33.3	30.4	27.8	26.4	25.1	24.5	32.4
5	25.9	27.9	36.3	32.0	30.2	31.9	32.7	36.8	33.3	26.4	28.4	25.5	24.5	30.4	33.8	38.7	40.8	39.7	36.3	32.7	29.9	29.8	28.0	28.0	31.6
6	29.3	28.9	28.8	35.3	29.9	32.3	31.1	32.7	31.8	29.1	29.4	33.8	36.3	34.3	35.8	37.3	39.7	37.7	34.3	31.8	30.9	26.9	27.8	25.9	32.1
7	27.8	29.4	31.0	31.4	30.5	40.2	39.2	34.3	33.7	30.9	24.4	33.8	26.4	34.8	32.9	37.3	36.8	35.8	34.9	32.8	27.9	28.6	26.9	24.5	31.9
8	28.4	28.9	32.7	35.8	35.7	32.7	32.7	31.9	22.9	30.4	34.4	29.9	32.3	33.8	35.8	37.3	37.7	36.3	34.8	30.8	28.9	25.9	22.9	27.0	31.7
9	26.9	27.9	28.9	29.4	30.8	37.3	35.9	39.2	33.3	29.9	26.4	30.4	33.5	35.9	34.2	36.2	38.7	29.8	14.2	10.2	18.6	26.4	26.4	29.5	29.6
10	30.0	31.9	32.8	31.9	32.9	33.3	35.0	33.3	37.3	37.3	34.8	35.7	34.3	33.8	38.2	36.3	36.8	35.8	34.3	32.8	26.0	26.9	25.9	25.8	33.0
11	28.6	32.8	33.8	35.3	39.7	35.3	43.7	45.5	51.6	37.7	29.9	33.8	33.8	30.4	31.4	30.3	34.9	38.7	35.8	30.9	30.3	27.8	27.9	25.9	34.2
12	25.9	29.9	30.9	31.9	32.0	28.9	43.7	41.2	39.2	34.8	34.3	35.8	33.8	30.9	39.2	39.7	36.2	33.5	34.2	31.8	27.9	26.4	24.0	25.0	32.9
13	26.5	29.3	29.4	28.9	30.8	32.3	32.8	32.8	31.4	30.5	31.7	31.8	32.8	30.4	32.1	33.3	37.6	34.9	33.8	31.8	24.5	26.9	27.0	25.4	30.8
14 D	26.9	28.9	28.2	33.8	36.8	39.2	17.6	23.3	32.8	29.9	27.0	32.8	32.3	32.7	35.9	37.3	30.9	31.0	30.8	28.0	28.9	25.1	24.0	25.0	30.0
15 D	35.8	30.0	25.9	25.4	47.1	29.8	34.3	09.2	36.2	40.7	19.1	31.8	41.7	31.2	35.3	36.9	40.2	37.6	36.9	30.9	28.9	28.4	32.1	30.4	32.3
16	29.0	34.3	34.3	31.0	43.7	34.9	31.9	14.4	35.8	39.7	47.5	36.8	36.8	32.8	28.0	33.8	36.3	36.2	32.3	27.4	31.0	27.9	28.9	27.9	33.0
17	27.9	29.9	29.4	30.8	34.8	34.9	30.9	33.3	31.9	25.3	29.0	33.7	32.9	35.7	36.6	33.3	36.9	25.4	30.0	30.9	28.4	26.5	25.4	28.4	30.5
18	25.0	41.2	40.2	27.4	48.1	34.7	31.8	29.8	30.0	28.4	31.8	29.9	33.8	33.0	36.2	38.7	38.2	35.3	32.0	27.3	25.8	27.4	28.0	28.4	32.6
19	28.9	30.4	29.9	29.6	31.4	31.7	31.4	31.9	31.8	33.8	33.3	33.8	33.9	31.0	30.9	30.3	29.9	32.8	27.9	26.0	24.6	27.0	28.4	29.6	30.4
20 D	27.4	27.4	42.2	33.5	31.4	31.4	30.4	33.8	33.8	31.6	31.8	30.4	29.9	33.3	36.3	36.7	37.3	33.9	26.9	26.0	26.0	27.4	27.4	35.3	31.7
21	32.9	27.9	28.4	30.6	31.8	34.3	36.9	27.9	25.1	28.9	31.8	31.4	22.7	34.3	35.8	36.8	37.3	33.9	31.8	28.8	26.9	24.0	24.5	27.0	30.9
22	28.0	33.4	33.3	28.9	30.9	29.8	29.3	28.9	27.9	27.9	37.9	32.8	33.8	35.8	35.8	32.8	31.8	29.9	20.5	29.0	32.9	22.3	21.0	24.0	29.5
23 D	24.0	35.3	29.9	32.7	26.9	25.8	31.4	33.8	10.2	11.1	29.9	33.9	48.1	34.8	30.4	32.9	39.6	35.3	34.8	29.9	28.4	20.9	25.0	33.8	30.0
24 D	23.5	22.0	27.9	32.8	39.7	34.7	29.9	14.1	10.2	11.1	39.7	45.7	41.2	34.8	36.8	38.7	41.6	40.2	30.1	20.0	26.0	27.9	26.4	26.2	30.0
25	25.8	40.7	30.9	35.3	39.2	34.8	33.8	23.0	18.1	34.9	32.9	30.9	28.4	29.9	32.3	34.8	35.8	34.7	31.8	28.9	25.4	25.4	27.9	29.4	31.0
26	29.9	29.9	30.9	30.9	28.9	42.7	42.7	37.7	36.9	15.2	33.8	32.2	30.9	29.4	38.7	39.7	36.8	30.9	29.0	30.8	30.0	26.9	26.9	26.4	32.0
27 Q	26.9	26.9	39.7	29.9	33.3	31.4	32.5	23.5	28.4	40.2	31.5	29.6	32.3	22.5	34.6	37.2	37.7	37.5	35.3	31.4	27.9	27.8	27.4	26.2	31.7
28 Q	27.3	28.9	29.9	30.0	29.9	32.8	31.5	35.4	33.8	34.8	31.7	32.7	32.9	34.8	36.7	37.6	36.3	34.8	33.8	31.4	29.4	27.9	27.4	25.0	32.0
29 Q	26.8	29.5	29.7	29.9	30.3	30.6	30.9	31.3	33.9	34.3	34.3	33.9	34.8	32.3	31.9	33.3	34.8	34.8	33.8	29.9	26.9	26.0	25.9	23.9	31.0
30	23.7	26.9	30.8	30.0	32.8	32.8	32.2	30.9	31.4	31.8	32.2	33.1	35.4	36.9	45.7	40.2	38.7	36.3	35.3	30.9	25.1	22.0	21.5	21.5	31.6
31	25.0	25.4	25.1	24.5	31.0	36.3	18.0	31.4	35.9	32.3	32.3	31.8	29.9	30.3	33.3	33.8	32.3	31.4	30.4	27.9	25.1	25.3	25.4	25.9	29.1
Mean	27.7	30.2	31.5	30.9	34.4	33.5	32.5	30.4	31.4	30.8	31.8	32.7	33.8	33.1	34.9	36.0	36.3	34.8	31.8	29.0	27.6	26.5	26.4	27.0	31.5

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

Table 11 Meanook

z = 58,000  $\gamma$  +

March 1954

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	822	822	822	820	820	820	817	810	808	808	811	811	808	810	810	810	806	801	801	802	808	812	815	832	813
2	845	836	831	877	867	862	839	811	795	750	656	766	805	812	812	811	811	811	817	835	833	830	830	830	816
3 Q	824	824	835	835	832	839	823	824	812	810	809	807	806	794	787	810	806	817	812	817	819	822	824	823	817
4	820	818	818	825	831	831	828	823	735	680	791	682	741	812	824	836	813	813	813	817	818	823	824	827	802
5	846	890	886	891	857	855	858	836	802	718	729	663	790	713	790	812	825	824	820	818	818	825	826	836	814
6	846	852	868	859	881	859	826	780	770	783	770	778	808	813	813	813	804	803	803	810	817	819	817	830	818
7	841	841	886	908	864	861	825	826	802	657	658	725	775	735	786	803	813	813	817	814	816	829	832	806	
8	841	840	854	875	877	857	830	821	768	728	781	774	792	825	825	819	713	813	803	803	803	803	819	844	813
9	835	824	821	841	841	817	825	812	812	590	656	736	788	797	802	819	807	790	797	794	792	791	808	814	792
10	827	820	826	827	827	827	828	826	798	781	820	815	782	875	780	827	810	809	805	811	805	813	815	820	816
11	837	865	849	893	909	901	860	747	775	790	769	715	707	782	749	763	781	808	814	818	827	827	845	843	811
12	853	839	827	838	846	739	759	791	793	793	814	804	747	742	798	803	802	803	804	804	816	826	827	817	804
13	819	821	840	850	847	832	819	821	814	815	814	810	793	780	750	750	806	806	805	828	839	840	838	828	815
14 D	867	818	901	921	882	854	682	779	796	784	762	763	815	837	826	732	760	819	854	839	843	843	828	837	818
15 D	917	850	838	882	882	837	804	582	750	750	732	740	727	828	804	815	827	826	827	837	846	850	881	837	811
16	839	844	849	835	828	827	829	661	668	666	695	773	773	762	806	819	806	806	817	817	851	862	851	843	797
17	844	842	836	845	846	872	841	816	863	717	794	812	829	828	829	790	773	785	816	828	859	862	863	890	828
18	884	986	930	930	907	838	763	773	761	761	816	828	816	815	840	849	845	851	851	852	863	863	861	860	848
19	857	853	864	857	857	850	846	846	824	831	835	831	808	782	757	788	797	804	824	835	841	852	849	853	831
20 D	853	869	882	853	851	842	843	802	826	668	791	707	784	819	833	830	826	830	842	842	842	842	853	903	826
21	899	854	854	847	842	843	820	823	768	720	749	814	832	832	842	838	841	832	820	829	837	826	843	853	827
22	847	870	853	846	838	825	823	823	789	731	731	775	812	809	816	809	817	814	809	818	847	899	864	850	821
23 D	899	926	919	911	878	853	770	720	698	698	715	653	621	737	766	776	816	826	839	833	893	854	884	940	809
24 D	898	928	909	885	832	837	777	565	555	703	692	764	809	832	832	820	815	815	839	839	826	832	843	855	804
25	885	883	880	872	852	889	875	709	633	727	800	800	800	788	799	800	826	829	827	727	844	733	833	833	810
26	829	840	840	846	860	827	810	827	800	628	732	740	749	791	808	808	716	825	817	726	847	847	845	842	800
27 Q	841	880	887	868	868	864	850	817	764	764	778	800	820	838	838	831	831	831	834	834	831	831	837	831	832
28 Q	834	835	858	835	835	845	835	824	813	799	803	808	812	826	828	833	766	823	828	828	828	828	835	838	825
29 Q	836	836	828	829	829	829	827	827	812	793	807	807	813	812	801	801	807	812	823	824	829	836	836	842	821
30	856	882	888	851	854	855	847	830	824	813	818	813	769	599	651	784	816	823	723	723	723	727	858	896	801
31	1043	1043	852	899	881	839	681	647	774	824	824	802	801	798	803	808	812	819	823	819	817	825	837	830	829
Mean	858	862	859	863	856	843	815	781	774	744	766	771	785	794	800	807	803	815	817	814	828	828	839	845	815

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12 Meanook

March 1954

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +			Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +			Range		
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$
1 Q	07	40	885	23	00	808	77	16	27	38.2	23	57	20.7	17.5	23	55	839	17	42	795	44
2	03	05	1018	07	10	640	378	04	25	73.4	07	05	03.6	69.8	03	07	908	09	30	600	308
3 Q	03	30	1033	13	50	822	211	04	28	45.3	05	00	23.2	22.1	04	30	902	05	00	728	174
4	15	52	898	11	13	563	335	08	53	56.9	11	27	19.8	37.1	14	55	849	09	05	598	251
5	01	50	951	11	43	491	460	07	12	45.1	11	53	17.1	28.0	03	02	945	11	31	566	379
6	03	14	917	22	12	831	86	03	12	49.6	23	45	24.3	25.3	02	50	902	09	11	744	158
7	03	00	948	09	50	576	372	06	05	48.9	10	20	13.6	35.3	03	05	978	10	12	540	438
8	23	42	905	09	10	801	104	15	50	45.1	08	40	14.3	30.8	03	00	864	09	08	682	182
9	05	35	955	09	30	524	431	05	35	48.3	19	40	07.0	41.3	05	00	886	09	36	522	364
10	08	01	923	08	32	797	126	08	25	43.9	20	48	22.0	21.9	08	11	865	09	00	708	157
11	03	49	1065	13	52	594	471	07	12	87.4	07	39	13.1	74.3	03	47	968	07	18	608	360
12	06	08	972	12	47	732	240	06	08	64.8	05	32	11.3	53.5	00	55	879	05	32	656	223
13	22	20	922	20	37	697	225	17	07	43.7	02	35	16.5	27.2	03	45	860	15	50	732	128
14 D	03	07	1176	06	40	55	1121	06	17	54.8	06	20	50.3	105.1	03	03	988	06	18	313	675
15 D	07	03	1087	10	02	540	547	04	13	59.9	07	30	42.9	102.8	00	08	983	07	10	444	539
16	04	40	931	09	24	522	409	09	25	62.7	05	35	06.0	68.7	04	20	882	07	35	538	344
17	22	22	939	16	02	736	203	05	00	40.2	17	05	19.5	20.7	23	16	912	09	15	670	242
18	02	15	1216	09	53	537	679	04	32	70.7	06	55	08.4	62.3	24	05	1035	06	47	685	350
19	02	05	918	15	04	733	185	12	52	37.3	20	10	21.3	16.0	02	10	882	14	06	700	182
20 D	02	22	941	11	35	686	255	03	32	63.0	19	17	21.9	41.1	03	25	989	09	00	632	357
21	00	12	949	09	18	789	160	06	12	44.1	08	27	18.5	25.6	00	12	926	09	45	702	224
22	23	22	936	10	55	781	155	20	30	39.7	21	45	09.7	30.0	21	20	919	11	00	669	250
23 D	23	15	1190	14	00	598	592	14	02	57.3	08	40	41.5	98.8	23	10	1049	09	00	455	594
24 D	04	35	986	09	12	472	514	04	38	61.7	09	00	35.6	97.3	01	13	965	08	00	449	516
25	03	30	954	08	21	531	423	01	11	51.0	08	15	00.8	50.2	05	55	821	08	17	578	243
26	06	05	970	09	15	588	382	06	04	59.7	09	25	03.7	63.4	05	02	903	09	20	533	370
27 Q	05	50	930	07	52	673	257	02	15	48.6	07	50	12.7	35.9	02	00	944	07	35	672	272
28 Q	06	40	911	21	26	845	66	05	48	41.2	06	20	23.3	17.9	06	40	861	09	05	760	101
29 Q	03	43	901	09	10	840	61	12	40	36.6	23	50	21.3	15.3	23	55	849	09	19	779	70
30	23	06	945	13	40	692	253	14	50	50.3	23	27	15.6	34.7	02	10	927	12	40	531	396
31	08	50	918	06	50	588	330	06	55	44.5	05	45	02.8	41.7	03	50	907	07	37	584	323
Mean			974			648	326			52.1			06.5	45.6			915			618	297
No. days			31			31	31			31			31	31			31			31	31

MEANOOK MAGNETIC OBSERVATORY 1953 1954

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

Table 13 Meanook

H = 12,000  $\gamma$  +

April 1954

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	884	884	884	880	891	903	910	910	895	891	891	893	891	890	883	880	864	858	873	873	873	873	875	877	884	
2	875	883	882	886	886	886	886	886	893	893	879	816	875	800	843	871	898	890	883	875	870	872	856	887	872	873
3	878	878	876	886	878	863	905	858	728	726	808	882	870	850	863	886	869	852	831	846	856	876	886	901	856	
4	885	881	901	931	956	859	896	892	861	855	767	873	888	885	881	871	848	842	846	852	866	865	881	893	874	
5	884	872	872	876	863	880	891	864	648	845	837	864	880	883	883	883	869	856	845	848	856	875	881	883	860	
6	884	876	883	876	880	883	887	884	876	876	868	891	883	875	876	876	876	860	852	851	859	869	873	869	874	
7 Q	877	884	885	877	884	884	893	867	871	877	889	881	877	877	877	868	857	849	848	849	855	857	859	873	871	
8	874	881	882	882	884	884	881	881	877	891	865	854	859	881	888	881	874	868	861	857	849	862	873	888	874	
9	892	904	873	870	873	882	893	888	881	884	891	891	884	857	837	853	862	856	851	857	858	860	861	862	872	
10	885	882	878	874	882	883	882	886	885	886	878	831	877	894	882	869	844	842	866	874	875	874	871	874	874	
11 D	878	885	878	874	878	882	882	889	889	889	877	835	886	886	882	858	855	838	787	808	862	899	986	1273	890	
12 D	1223	1089	1121	753	800	1012	925	911	824	753	587	491	635	925	895	886	879	863	867	870	893	908	901	902	871	
13	914	882	890	871	858	859	864	861	864	851	856	843	820	734	671	851	828	832	848	859	875	854	867	879	847	
14	879	883	879	903	919	895	879	859	832	762	851	839	824	817	820	851	867	861	851	855	859	867	870	890	859	
15 D	887	879	883	892	890	870	867	715	808	867	875	851	839	800	762	854	861	847	827	826	851	883	869	876	849	
16	871	866	872	881	881	881	876	893	825	881	879	883	873	878	881	872	863	827	865	853	874	872	894	866	871	
17	872	872	873	871	879	873	879	886	879	879	877	881	871	876	879	870	861	825	863	851	872	870	892	864	871	
18	890	875	890	873	878	878	830	886	886	885	844	812	859	883	872	874	867	847	848	849	862	867	854	879	866	
19	885	885	867	875	875	879	879	882	874	716	790	879	883	875	872	876	847	859	855	851	861	871	894	886	863	
20 D	886	895	898	875	890	917	745	851	851	870	856	868	847	730	859	886	876	839	831	839	859	882	899	877	859	
21	870	898	878	879	895	872	793	804	902	890	890	817	667	847	879	875	855	843	861	872	875	876	893	879	859	
22	890	887	870	883	890	893	886	890	882	863	878	875	856	879	882	885	871	867	864	867	869	876	883	902	879	
23 D	886	877	885	879	886	887	898	900	869	812	651	760	886	886	881	863	843	831	832	848	856	909	886	879	858	
24	885	895	883	914	898	887	887	887	837	742	890	890	890	884	883	864	860	863	867	855	870	879	897	897	875	
25 Q	893	886	887	879	886	887	851	800	879	877	879	887	883	890	886	875	863	863	863	872	872	878	895	887	876	
26	890	906	929	950	969	937	903	890	862	872	879	886	887	859	817	839	870	863	851	856	856	872	901	925	886	
27	1094	1028	1027	886	902	887	879	828	816	851	796	769	828	859	878	878	863	877	870	877	890	887	883	890	885	
28 Q	894	886	887	886	878	883	886	875	890	893	886	872	878	877	878	870	871	872	878	885	883	894	886	894	883	
29 Q	879	871	883	883	883	887	887	887	887	887	890	893	887	872	875	876	879	871	861	864	872	870	876	886	883	879
30	886	890	883	890	911	933	910	722	783	895	751	706	855	868	890	871	866	854	861	864	872	870	877	879	858	
31																										
Mean	902	895	896	881	887	890	878	865	852	852	840	842	852	862	863	871	863	853	853	857	867	875	885	897	870	



**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 14 Meanook

D = 24° E + . . .'

April 1954

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	25.6	27.0	29.2	30.0	29.9	30.0	33.8	33.9	32.9	32.4	32.8	32.7	33.3	34.8	36.3	37.7	33.8	28.9	29.3	27.9	27.8	27.5	25.9	25.9	30.8	
2	28.8	29.9	30.0	30.9	30.9	30.9	32.8	32.7	31.9	32.9	24.5	38.2	53.5	56.6	47.7	45.7	43.8	38.6	33.2	29.4	28.9	25.5	19.5	22.0	33.7	
3	25.9	28.9	30.9	30.6	39.7	46.1	33.9	27.8	32.9	35.8	34.7	31.9	37.7	38.7	38.8	37.3	37.7	35.9	31.8	24.0	22.0	20.5	23.0	25.4	32.1	
4	24.5	25.0	25.1	31.9	29.0	28.8	33.8	31.0	28.9	30.9	27.8	30.3	35.7	36.3	36.9	37.8	38.7	34.3	30.9	27.6	24.9	23.0	22.5	23.0	29.9	
5	24.1	24.0	27.9	29.8	34.7	31.8	31.4	27.4	15.7	38.7	25.9	33.8	35.8	37.7	39.2	39.2	36.9	35.4	31.5	27.9	25.1	25.0	25.9	26.9	30.5	
6	27.9	28.9	28.9	30.4	32.7	30.4	31.8	35.4	32.8	32.7	31.0	34.2	33.3	35.2	35.7	37.7	37.3	35.3	32.7	27.4	25.3	25.1	26.1	26.9	31.5	
7 Q	29.9	31.2	31.8	32.2	30.3	30.3	33.7	32.3	33.9	31.3	33.8	33.8	33.3	35.8	38.9	41.2	40.2	35.3	30.4	27.4	24.7	24.0	24.5	26.4	31.9	
8	27.9	29.9	30.4	30.4	30.0	30.3	30.9	31.3	30.9	32.5	26.8	29.4	30.9	34.9	38.8	40.6	37.7	33.9	31.0	27.8	26.0	21.0	19.5	24.0	30.3	
9	23.1	32.8	29.9	28.9	31.8	30.9	31.8	29.9	31.7	35.3	31.3	32.4	33.9	36.8	33.3	35.8	36.7	32.9	31.4	29.0	28.0	26.9	27.8	28.4	31.3	
10	28.8	28.9	28.8	33.7	30.4	30.1	30.4	31.8	29.8	30.4	30.4	31.4	36.8	37.8	38.8	38.2	32.9	21.4	21.9	23.0	25.4	25.4	25.0	25.1	29.9	
11 D	31.0	30.9	29.3	32.8	30.9	28.8	30.9	31.8	31.8	32.8	33.3	27.9	34.7	39.7	41.2	39.7	34.8	34.8	32.9	20.1	17.1	20.0	21.0	44.6	31.4	
12 D	31.9	20.1	22.9	19.5	01.3	21.9	27.0	43.2	18.1	32.9	34.8	34.3	32.9	45.7	42.2	44.7	42.7	37.3	32.8	29.9	27.9	25.0	25.0	24.0	29.9	
13	25.8	29.9	33.8	28.9	31.5	30.0	31.8	26.9	30.5	27.3	30.9	29.9	32.1	32.8	36.8	33.3	28.4	30.8	27.4	29.3	27.8	27.9	29.9	29.4	30.1	
14	28.9	27.9	35.8	40.7	42.7	40.8	31.8	29.9	28.4	19.5	30.4	33.8	30.6	32.8	36.9	38.1	37.7	35.7	32.3	29.8	28.4	27.9	28.4	27.9	32.4	
15 D	28.9	35.8	30.4	31.4	39.8	29.9	33.9	20.5	28.9	29.4	31.4	31.9	35.3	29.9	31.0	33.9	34.9	38.2	34.3	28.4	23.5	24.5	24.5	25.9	30.7	
16	26.0	28.9	28.9	30.4	30.8	35.8	37.7	15.6	32.8	35.3	31.8	31.9	33.8	36.6	36.8	36.7	36.3	35.4	32.9	25.1	20.0	19.2	20.0	23.0	30.0	
17	26.0	28.4	30.9	33.9	32.0	31.9	32.1	29.9	30.9	30.9	30.4	33.8	33.2	37.9	40.6	39.7	37.7	35.7	22.5	19.2	24.7	24.5	24.5	26.3	30.7	
18	24.4	30.3	29.9	28.9	29.9	28.9	29.5	31.8	30.9	30.4	32.8	27.9	31.8	39.7	43.7	40.8	38.7	36.9	31.4	27.9	25.9	22.5	22.5	25.9	31.0	
19	26.9	27.9	30.9	31.8	37.3	45.1	31.8	30.9	27.0	20.7	31.0	35.7	34.9	34.9	38.2	41.7	39.6	32.7	29.9	28.9	27.0	26.0	25.0	23.5	31.6	
20 D	25.9	26.4	28.9	44.6	46.9	33.9	16.6	22.0	33.9	27.4	29.4	33.8	35.3	29.9	35.3	39.7	38.3	36.8	28.9	25.1	19.0	24.4	24.1	26.4	30.5	
21	27.8	28.9	28.9	31.8	39.2	32.8	35.2	39.7	29.4	27.4	32.8	31.8	32.8	34.8	39.7	41.6	36.7	36.6	30.0	29.0	28.4	28.7	27.9	27.6	32.4	
22	28.4	27.7	43.5	31.0	38.2	33.7	30.4	31.6	28.4	29.4	31.4	32.3	28.6	32.9	36.3	37.3	37.2	35.7	31.8	28.4	26.7	27.4	27.9	25.9	31.8	
23 D	25.4	25.4	29.4	28.9	28.4	27.0	28.9	37.3	33.8	31.9	32.3	32.3	42.6	45.6	39.7	38.7	35.3	30.9	23.1	20.1	17.1	25.1	23.5	23.5	30.3	
24	24.0	25.0	38.2	34.8	30.0	30.4	32.9	28.4	24.0	42.8	38.2	32.7	32.6	34.8	46.3	38.7	33.3	31.8	29.0	25.8	24.1	23.1	23.5	27.9	30.9	
25 Q	25.0	31.0	28.4	33.9	32.9	31.8	25.9	28.8	30.4	31.4	30.9	31.8	32.8	34.3	35.8	37.7	37.4	35.3	31.4	28.0	24.1	24.7	25.7	24.5	30.6	
26	25.4	23.0	29.4	36.8	29.0	34.8	36.3	33.8	32.8	27.8	31.4	32.8	34.8	37.7	38.7	35.3	32.9	32.8	31.7	27.9	23.5	24.0	22.9	20.0	30.6	
27	25.4	19.2	38.7	24.9	27.0	27.8	48.7	36.9	34.6	28.4	27.9	24.0	31.9	36.9	37.3	35.9	34.9	33.3	30.9	28.9	28.9	26.4	25.8	25.9	30.8	
28 Q	27.8	26.0	26.0	27.0	31.4	31.0	27.4	25.9	30.4	30.0	31.0	30.0	32.8	32.3	34.5	34.8	35.6	32.7	29.6	28.0	26.4	25.8	25.0	24.1	29.4	
29 Q	23.1	25.4	26.9	28.4	30.8	30.5	30.0	29.5	30.4	31.0	31.8	32.3	32.8	34.3	38.2	37.3	35.8	32.9	27.9	25.9	23.0	24.5	26.0	27.0	29.8	
30	27.8	28.4	28.4	27.9	28.9	28.9	26.9	21.1	33.9	31.8	26.0	35.8	48.7	42.2	39.2	37.6	33.9	32.9	27.9	26.4	25.0	24.5	25.1	25.8	30.6	
31																										
Mean	26.7	27.7	30.1	31.2	31.9	31.8	31.6	30.3	30.1	31.0	31.0	32.2	35.0	36.7	38.1	38.4	36.6	34.0	30.1	26.8	24.9	24.7	24.4	26.1	30.9	

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

Table 15 Meanook

Z = 58,000  $\gamma$  +

April 1954

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	836	836	836	837	842	870	891	891	863	848	848	848	848	848	847	847	845	836	836	833	842	852	868	859	850	
2	858	857	853	853	855	852	848	845	844	797	681	736	692	724	759	808	841	858	859	859	879	880	917	919	828	
3	858	856	856	878	893	858	860	838	793	684	778	842	838	831	838	860	849	837	842	846	853	860	890	891	843	
4	870	860	893	938	838	708	838	868	837	760	879	814	841	848	848	848	847	847	843	843	843	849	864	864	846	
5	865	865	861	861	865	872	870	825	649	783	758	759	816	827	837	839	838	838	837	837	837	839	841	845	828	
6	850	848	848	854	854	850	839	807	783	821	774	830	839	837	838	830	834	827	832	832	830	836	839	848	832	
7 Q	850	847	843	834	839	839	805	797	805	794	837	831	816	821	826	827	826	825	823	830	830	830	830	839	827	
8	835	835	839	839	838	836	838	833	795	817	784	767	766	800	826	828	826	822	826	826	840	850	859	873	825	
9	851	895	862	856	866	878	863	862	828	825	850	849	839	817	773	873	803	822	828	833	833	833	841	836	842	
10	840	840	844	851	851	851	835	806	768	820	797	738	788	831	822	820	808	806	795	817	828	835	833	838	819	
11 D	856	845	839	841	840	831	832	825	840	828	817	752	883	807	809	818	826	818	827	851	879	885	930	929	842	
12 D	829	827	505	434	852	841	706	618	689	827	794	851	651	827	856	847	845	834	834	829	832	855	867	870	780	
13	896	867	875	874	852	841	827	828	827	792	823	822	795	793	740	834	812	817	821	836	841	845	852	852	832	
14	842	864	887	886	886	885	852	830	795	708	775	788	790	808	829	840	841	842	842	837	835	833	834	845	832	
15 D	868	902	885	884	848	777	808	742	799	819	826	802	793	774	748	784	813	824	833	841	860	871	847	846	825	
16	848	842	842	842	852	847	813	686	706	802	820	820	835	826	833	832	830	829	835	832	832	842	847	842	822	
17	843	843	843	843	843	852	861	849	834	825	827	827	821	816	819	819	819	820	809	809	823	825	843	843	824	
18	863	869	854	845	842	781	665	814	819	819	780	754	765	808	803	808	819	830	836	837	843	847	843	838	816	
19	836	838	842	843	843	816	808	825	793	693	727	791	805	803	791	804	808	808	820	828	831	821	842	843	811	
20 D	840	844	874	899	873	855	723	781	808	812	799	822	800	732	792	831	825	826	855	873	855	843	859	848	828	
21	853	859	850	859	820	764	663	732	853	848	848	766	676	766	815	824	826	837	835	835	836	834	837	840	812	
22	846	859	882	865	870	794	808	844	836	826	825	825	804	820	825	828	828	828	827	827	828	827	828	844	833	
23 D	849	864	870	876	867	860	855	802	773	777	672	671	767	815	829	827	826	826	826	829	853	871	869	865	822	
24	840	856	893	906	895	858	796	793	760	699	807	827	836	836	836	827	827	827	827	836	850	844	850	883	834	
25 Q	860	858	840	839	827	825	798	699	795	813	813	832	832	838	832	826	828	832	827	827	827	827	844	843	824	
26	856	877	918	918	919	917	830	814	771	814	819	841	840	823	806	803	826	837	827	830	838	849	862	906	848	
27	963	929	936	884	885	871	750	703	772	796	800	744	783	811	818	837	837	845	846	838	846	851	845	845	835	
28 Q	861	857	857	857	866	861	854	807	838	837	837	821	824	828	837	837	841	840	837	837	837	839	846	850	842	
29 Q	863	857	851	849	862	846	842	840	837	834	838	834	823	819	818	828	830	829	824	824	824	831	838	837	836	
30	833	835	834	851	890	907	885	763	750	430	724	626	727	790	815	831	831	831	828	827	838	834	834	833	798	
31																										
Mean	855	858	850	850	859	842	815	797	795	785	798	794	798	811	816	829	828	830	831	835	841	845	853	857	828	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16 Meanook

April 1954

Day	Horizontal Intensity						Declination						Vertical Intensity						
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum			
	12,000 $\gamma$ +			12,000 $\gamma$ +			24° E +			24° E +			58,000 $\gamma$ +			58,000 $\gamma$ +			
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	
1 Q	06	56	937	16	55	829	06	25	41.6	22	18	23.4	06	35	921	17	00	828	93
2	15	25	925	12	57	704	13	55	60.9	22	50	13.6	22	55	964	12	20	652	312
3	06	10	948	08	35	652	05	26	56.2	20	18	17.6	23	55	926	09	47	646	280
4	05	00	1011	11	13	718	05	11	56.9	06	00	11.0	03	40	979	05	20	618	361
5	08	50	1024	09	15	545	09	12	55.0	08	12	19.5	07	10	874	08	11	469	405
6	07	20	923	10	00	829	15	15	41.4	21	46	24.8	04	02	865	10	10	739	126
7 Q	06	18	923	17	26	841	15	46	42.6	20	55	22.8	01	00	857	06	00	776	81
8	09	55	904	19	56	835	15	30	41.2	21	35	18.1	23	25	892	12	35	752	140
9	01	25	935	14	25	830	02	43	44.3	00	43	21.8	01	40	944	15	05	759	185
10	07	40	911	11	45	811	15	05	40.2	17	38	18.6	03	25	860	08	16	707	153
11 D	23	25	1367	19	20	754	22	23	63.9	19	45	04.0	23	15	1090	11	36	745	345
12 D	00	25	1329	04	00	366	06	45	72.2	04	02	38.5	04	33	1027	03	45	176	851
13	00	02	953	14	05	632	15	27	43.7	00	05	19.1	00	16	912	14	02	711	201
14	04	49	933	09	25	672	04	04	57.2	09	22	10.9	05	06	941	09	18	638	303
15 D	05	26	922	07	46	552	04	33	63.5	08	08	07.2	01	35	911	07	52	688	223
16	22	10	906	07	35	816	06	30	46.6	07	30	18.0	05	00	857	07	35	328	529
17	22	15	914	17	55	810	15	40	42.1	19	25	17.6	06	49	877	19	40	807	70
18	07	08	953	11	05	773	05	18	43.2	05	55	06.8	01	17	892	06	13	635	257
19	05	37	914	09	37	671	05	35	53.0	09	23	17.0	05	12	861	09	55	655	206
20 D	06	00	962	06	42	505	03	33	54.0	07	10	02.1	03	31	922	06	32	596	326
21	08	27	953	12	15	511	04	04	60.2	08	57	20.5	08	27	890	12	12	569	321
22	06	45	930	09	35	836	05	48	53.0	09	35	25.0	02	27	901	06	04	740	161
23 D	21	15	953	10	20	587	07	55	49.6	20	12	11.2	02	52	894	11	00	626	268
24	09	55	997	09	40	659	09	30	63.0	08	30	19.7	03	24	928	09	37	580	348
25 Q	22	53	915	06	50	709	03	45	43.2	07	00	13.4	01	15	871	07	35	660	211
26	03	00	1039	14	45	796	06	17	45.6	23	33	16.6	02	52	975	08	55	739	236
27	00	19	1219	07	56	722	02	35	64.6	11	10	12.2	00	15	1028	06	55	636	392
28 Q	22	00	918	07	18	851	16	02	37.3	07	17	20.5	00	35	884	07	27	783	101
29 Q	05	57	907	01	12	840	04	53	41.4	20	18	21.5	04	50	878	13	30	808	70
30	05	13	961	07	55	547	12	25	54.0	08	53	00.1	05	23	926	11	20	597	329
31																			
Mean			980			707			51.0			11.2			918			655	263
No. days			30			30			30			30			30			30	30

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

Table 17 Meanook

H = 12,000  $\gamma$  +

May 1954

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	883	885	882	877	887	883	883	879	883	893	890	893	885	890	883	875	863	856	861	867	870	872	879	903	880	
2	902	895	901	919	937	901	933	898	890	870	869	895	896	890	886	883	879	871	863	864	870	875	887	888	890	
3	886	879	879	879	879	886	879	883	885	883	862	887	897	894	890	887	875	864	855	864	867	878	883	887	880	
4 D	886	894	893	895	895	906	910	909	885	814	892	890	887	890	886	883	875	845	832	848	890	898	926	900	885	
5	886	890	878	870	875	883	871	878	872	878	886	879	872	880	878	871	851	853	863	867	869	869	869	876	874	
6	893	886	886	883	883	883	856	851	894	887	879	884	886	886	886	883	879	875	864	861	863	867	871	879	878	
7 Q	887	887	888	888	891	893	895	896	893	899	899	899	901	902	895	888	879	879	873	876	877	880	887	880	889	
8	898	894	886	885	884	886	890	886	886	887	875	877	886	890	886	862	839	870	879	873	864	879	884	906	881	
9 D	932	966	961	969	987	890	890	776	864	843	816	879	887	862	858	875	878	866	864	873	875	884	889	886	886	
10	890	887	890	885	886	895	884	873	900	900	887	889	886	887	887	882	883	883	886	886	877	878	886	877	886	
11 D	903	959	924	925	942	928	822	898	887	746	845	832	800	871	883	886	875	867	859	856	884	890	900	903	878	
12	891	884	887	886	886	888	888	888	887	876	840	856	873	888	880	876	872	864	865	879	880	886	884	895	879	
13	883	893	883	892	898	902	894	895	893	886	895	893	875	824	864	883	879	875	872	871	865	870	883	883	881	
14	905	905	900	887	882	890	892	885	886	866	831	863	886	886	885	878	878	875	869	869	863	871	876	885	880	
15	890	891	895	898	899	892	890	895	901	897	900	901	895	903	878	876	883	870	856	856	870	886	898	898	888	
16	910	896	896	888	895	880	884	884	891	891	891	895	895	894	884	880	871	857	847	860	872	878	890	899	884	
17 Q	901	901	898	898	898	893	895	895	898	901	897	898	898	897	887	886	875	871	864	864	870	883	886	890	889	
18 D	899	926	930	962	949	912	898	895	893	854	849	779	848	830	891	895	876	865	841	825	863	878	909	930	883	
19	896	891	899	899	891	896	884	882	887	829	873	903	896	899	876	871	880	873	863	870	869	894	884	911	884	
20	926	910	916	910	896	891	896	880	873	887	899	884	872	880	891	880	876	873	884	880	888	876	888	888	889	
21 D	918	888	915	899	896	886	887	889	887	863	810	873	902	884	872	856	857	848	860	880	881	884	895	891	880	
22	902	894	891	894	899	901	903	875	877	891	880	884	888	887	875	872	873	875	863	864	873	891	881	891	884	
23	892	896	899	891	888	894	896	832	884	898	896	894	895	895	895	891	884	884	880	880	873	873	880	888	887	
24	899	899	901	891	891	891	887	860	800	822	886	896	899	899	887	887	879	865	849	857	871	886	887	887	878	
25 Q	907	899	900	894	888	899	899	882	899	895	895	895	899	899	895	895	887	873	868	871	877	884	887	887	891	
26	881	891	903	901	896	888	895	896	895	896	895	904	904	907	891	884	865	860	873	873	887	896	897	909	891	
27	919	904	910	917	912	897	903	903	902	899	895	895	888	895	891	884	979	865	868	873	880	888	887	894	898	
28	903	906	898	895	893	895	893	893	890	878	893	891	898	898	902	893	886	870	867	862	865	872	890	894	888	
29	927	930	923	958	948	935	777	731	898	903	909	905	914	916	902	879	863	851	848	869	885	894	906	906	891	
30 Q	907	899	905	889	889	889	889	897	897	905	908	908	907	902	897	886	871	869	871	876	883	892	894	901	893	
31	902	905	901	896	889	890	902	910	910	910	907	910	899	899	878	870	882	872	871	872	885	897	893	902	894	
Mean	900	901	901	901	901	895	886	877	887	876	879	885	888	888	885	881	877	867	863	867	874	883	889	894	885	

**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 18 Meanook

D = 24° E + . . .'

May 1954

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	26.8	30.8	30.9	30.4	30.4	29.8	28.4	27.3	25.0	27.9	29.9	31.7	34.3	35.3	36.9	36.7	35.3	32.3	28.4	25.9	25.5	25.1	25.8	25.1	29.8
2	25.9	26.0	20.5	22.5	42.6	32.6	33.2	29.4	26.6	28.7	28.8	32.8	33.8	36.8	37.6	37.8	36.9	34.9	31.8	28.4	25.1	25.3	24.9	24.9	30.3
3	24.9	24.1	25.7	28.3	43.8	31.5	35.9	37.7	32.8	31.8	27.0	32.7	37.3	39.7	40.8	40.2	38.6	36.8	33.6	31.4	29.0	26.4	25.9	25.0	32.5
4 D	25.1	25.0	26.4	27.0	28.4	28.4	28.9	31.0	27.8	35.9	34.8	34.5	35.9	35.8	38.7	38.6	37.3	41.2	30.6	22.0	26.0	24.1	23.0	23.1	30.4
5	24.5	26.4	28.9	30.9	31.7	30.9	39.6	39.2	33.8	31.5	31.2	32.3	30.9	33.9	36.8	37.7	39.4	36.9	31.8	27.9	25.9	25.0	25.7	25.9	32.6
6	26.0	27.4	28.9	33.9	34.8	31.8	27.8	27.4	30.0	30.0	29.9	31.8	32.8	34.3	35.8	35.7	34.3	32.9	29.9	26.6	25.3	24.5	24.0	24.6	30.0
7 Q	25.8	27.4	27.8	28.4	28.9	28.8	28.9	30.4	31.8	31.0	30.8	31.6	34.3	35.9	36.8	37.3	37.7	37.6	33.8	30.0	27.9	27.0	26.4	26.4	31.0
8	25.4	26.0	29.9	29.4	28.4	29.9	29.0	33.8	33.9	31.4	28.9	32.8	35.8	37.6	39.7	41.0	31.8	34.3	34.5	30.4	25.1	23.0	22.1	19.2	30.6
9 D	19.5	20.5	26.4	25.6	34.9	25.0	27.9	22.5	38.2	34.6	38.2	40.8	37.0	36.0	36.3	38.7	38.8	37.7	33.5	30.9	27.8	28.4	27.6	27.7	31.4
10	27.4	27.9	28.8	29.8	29.0	27.4	36.8	32.3	32.9	32.8	32.8	33.9	34.8	35.7	36.2	36.2	36.3	33.8	32.5	29.0	24.1	32.9	21.0	22.9	30.7
11 D	22.1	25.9	25.9	24.1	28.4	36.8	22.2	29.9	34.8	23.0	32.3	34.9	27.9	36.8	34.9	35.8	35.3	33.8	32.9	25.4	26.3	26.0	24.9	25.8	29.4
12	25.8	25.9	26.8	26.9	28.4	28.0	28.0	28.9	29.3	33.2	32.8	34.6	35.9	36.8	35.3	34.8	31.9	28.9	24.1	22.1	23.9	26.4	26.8	25.9	29.2
13	26.9	26.4	27.9	26.8	29.8	35.8	27.9	26.9	28.9	29.7	31.7	33.3	32.8	31.5	34.8	36.9	36.9	36.8	31.8	27.4	23.1	23.1	23.1	24.5	29.8
14	24.0	28.8	28.6	30.9	28.0	28.9	32.8	29.9	27.9	28.4	24.7	27.6	33.3	35.4	37.3	37.6	37.7	34.4	30.9	27.9	25.4	23.5	22.9	24.9	29.6
15	25.9	25.9	26.8	26.9	35.8	30.9	32.7	30.0	31.0	30.9	31.4	33.3	35.9	37.7	40.7	40.7	37.8	35.7	31.8	27.8	26.9	24.0	23.1	23.9	31.1
16	28.0	26.8	32.9	27.9	38.2	32.7	30.0	29.0	29.8	30.3	29.9	31.4	32.8	35.3	37.8	38.7	38.2	36.3	31.9	28.6	24.5	22.1	22.4	24.0	30.8
17 Q	24.6	26.4	27.8	27.8	28.9	27.9	27.9	28.9	29.4	30.1	31.2	32.8	34.7	36.9	36.8	37.3	36.3	34.8	28.8	26.4	24.0	22.9	21.5	22.5	29.4
18 D	24.0	23.2	26.9	38.8	32.3	28.4	27.9	27.4	27.9	32.7	34.9	34.3	37.6	30.9	41.7	42.7	40.2	35.3	28.9	22.9	20.0	18.1	18.1	18.2	29.7
19	19.8	25.9	27.6	28.9	39.2	34.8	28.9	26.4	37.8	20.0	25.0	31.8	33.8	36.8	37.7	34.7	37.3	35.3	30.9	30.4	27.0	25.5	22.0	21.0	29.5
20	18.8	19.1	23.1	29.4	33.1	29.4	33.7	32.9	34.3	32.4	30.4	32.3	35.3	36.8	37.3	39.2	39.2	36.3	31.8	27.4	25.0	25.0	24.0	24.0	30.4
21 D	24.0	26.9	24.5	25.8	28.8	28.4	28.4	28.3	38.2	31.4	27.4	29.4	34.3	38.3	38.6	38.8	32.3	31.9	27.9	25.6	24.5	22.7	22.1	24.0	29.2
22	25.1	25.4	26.5	27.8	29.0	28.4	24.0	22.1	25.4	29.4	30.4	29.7	32.8	34.8	35.8	36.8	35.8	32.9	30.4	26.4	24.0	23.9	22.0	21.9	29.4
23	22.9	25.4	25.8	25.8	27.9	27.9	37.6	31.4	36.3	29.9	29.7	31.9	33.8	35.2	36.9	37.7	37.6	34.9	32.8	31.0	26.6	25.9	24.1	22.1	30.5
24	24.8	27.8	27.8	28.7	30.4	32.9	40.9	34.9	34.9	37.6	35.8	33.9	35.9	37.3	39.8	39.8	38.2	36.9	31.8	25.4	25.0	24.5	24.0	24.5	32.2
25 Q	25.0	25.4	25.9	30.9	30.0	25.9	27.4	25.9	32.1	31.9	32.5	33.8	34.8	35.8	35.8	35.8	35.3	34.3	32.4	29.9	27.6	24.0	23.7	23.5	29.9
26	24.5	29.3	27.9	26.9	26.9	33.3	33.8	31.4	29.4	29.9	31.0	33.5	34.9	35.3	35.5	35.8	38.7	33.3	28.4	27.4	24.9	25.1	24.1	23.5	30.2
27	22.1	23.5	24.0	27.1	33.9	35.8	28.4	28.9	33.3	30.8	30.9	32.8	34.3	34.9	36.9	37.8	37.3	34.3	28.9	27.9	26.9	26.4	25.4	26.4	30.4
28	28.0	28.9	29.5	29.0	28.8	28.8	29.9	32.1	34.9	33.8	36.8	30.8	35.3	37.7	40.2	38.8	37.8	34.8	31.0	26.9	22.2	21.9	21.5	22.0	30.9
29	22.0	20.0	22.0	24.1	25.0	26.7	22.9	-1.1	28.8	31.5	32.8	34.3	36.9	37.3	36.8	36.5	37.7	33.9	27.0	25.0	22.9	25.0	26.9	26.9	27.6
30 Q	26.9	28.9	28.4	28.9	28.8	28.8	28.9	29.4	29.4	31.8	31.5	33.3	35.7	35.8	36.8	36.8	35.9	31.9	28.4	25.6	24.5	24.0	24.5	25.1	29.9
31	26.9	27.9	29.4	29.9	32.0	32.8	28.8	26.8	28.7	29.9	30.9	34.7	37.2	37.8	37.9	36.8	35.8	32.9	31.4	25.1	23.0	22.1	22.4	23.7	30.2
Mean	24.6	25.9	27.1	28.4	31.5	30.3	30.3	28.8	31.1	30.8	31.2	32.9	34.5	36.0	37.4	37.7	36.3	34.8	30.8	27.3	25.1	25.3	24.7	24.0	30.3

MEANOOK MAGNETIC OBSERVATORY 1953 1954



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

Table 19 Meanook

$z = 58,000 \gamma +$

May 1954

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	840	851	860	851	851	851	846	833	823	820	834	842	842	838	838	838	838	835	831	831	831	831	831	831	842	839
2	847	841	876	920	869	861	889	871	838	820	798	840	850	838	838	835	834	831	835	835	834	838	843	850	847	
3	854	862	863	872	836	841	830	835	847	843	819	824	830	835	835	835	830	830	831	830	830	830	831	835	837	
4 D	835	840	839	841	845	876	884	874	861	819	824	824	823	831	831	830	821	820	821	821	841	848	912	909	844	
5	853	851	853	848	836	835	825	811	817	830	831	825	821	832	837	837	835	831	820	820	820	820	820	831	830	
6	852	853	853	864	842	842	800	715	809	829	820	821	829	831	831	833	833	833	831	831	831	831	831	831	828	
7 Q	834	834	834	834	834	834	834	843	832	831	832	832	832	832	830	830	826	823	822	821	822	827	832	832	831	
8	841	845	854	848	850	841	838	834	821	823	800	798	815	816	818	805	794	810	821	823	823	837	854	878	829	
9 D	932	932	917	911	813	815	826	627	753	733	698	783	829	822	822	833	836	836	832	838	844	854	845	836	824	
10	835	838	845	851	846	854	787	833	844	842	833	811	824	833	832	827	821	819	816	821	827	827	831	831	830	
11 D	850	934	929	934	944	803	662	812	822	722	784	779	762	790	820	834	829	828	822	816	825	834	845	878	827	
12	879	839	834	834	833	833	830	832	822	799	729	750	799	820	828	828	828	828	826	823	820	823	832	845	821	
13	846	855	858	857	857	846	853	844	835	825	835	835	826	766	790	823	833	824	826	826	833	833	846	846	834	
14	866	885	899	888	875	876	873	855	840	813	723	779	835	839	835	835	835	835	835	835	835	837	846	846	842	
15	847	847	847	847	848	847	853	838	836	836	836	837	832	838	820	819	812	814	814	820	827	836	845	867	836	
16	892	877	869	853	834	804	838	836	834	830	826	822	839	838	834	834	834	830	830	825	825	825	825	836	837	
17 Q	837	837	837	837	837	837	837	836	836	837	837	837	837	837	835	832	828	826	826	817	817	817	819	823	837	
18 D	837	839	900	948	948	893	858	848	838	748	768	653	765	750	802	832	832	832	831	838	861	860	861	881	834	
19	882	866	870	858	849	821	848	824	816	733	781	832	838	838	827	820	827	827	818	826	827	848	851	884	834	
20	895	914	905	905	879	851	827	821	813	824	839	739	832	829	827	829	829	829	818	823	829	851	856	860	843	
21 D	872	895	903	903	905	872	848	839	773	805	772	783	841	838	828	805	828	837	838	839	840	839	844	850	842	
22	863	862	865	862	882	879	855	814	805	830	738	827	840	840	840	844	844	839	830	827	827	839	858	860	840	
23	879	868	862	851	845	842	806	748	789	838	840	841	849	842	842	839	838	835	830	830	834	841	843	842	836	
24	851	849	849	840	844	841	820	802	746	746	824	841	841	842	838	831	831	829	820	826	830	838	840	842	828	
25 Q	852	852	858	877	861	862	846	772	816	835	835	835	832	836	841	839	833	827	821	827	831	839	841	843	838	
26	846	858	859	852	852	836	841	832	839	840	839	837	840	839	834	827	830	827	827	827	830	839	846	859	840	
27	876	888	889	906	853	843	864	859	822	836	832	842	841	847	844	837	836	838	826	828	833	841	841	842	848	
28	842	842	842	842	842	842	842	840	828	821	796	814	827	827	831	808	831	831	831	831	831	842	851	854	833	
29	886	918	933	952	929	895	803	742	832	843	841	841	843	847	842	840	841	842	842	841	842	836	842	851	855	
30 Q	851	851	853	862	853	862	851	847	810	820	842	843	843	843	842	840	830	831	831	832	842	842	842	842	842	
31	843	843	847	847	848	843	843	843	843	842	843	843	843	843	831	814	812	813	822	833	832	842	842	843	837	
Mean	859	863	868	871	859	848	834	818	821	813	808	813	829	829	830	829	829	829	826	828	831	837	844	851	836	



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20 Meanook

May 1954

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +			Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +					
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$			
1 Q	23	27	924	17	00	847	77	15	20	38.4	08	48	20.0	18.4	02	20	866	09	00	794	72
2	04	22	1063	10	03	814	149	04	34	59.2	04	46	18.4	40.8	04	20	941	05	00	696	245
3	00	05	911	10	27	847	64	04	16	52.0	01	20	23.1	28.9	04	12	889	11	52	799	90
4 D	22	50	961	08	56	713	248	17	02	44.0	08	55	09.8	34.2	23	42	949	09	30	782	167
5	07	10	922	16	25	843	79	06	58	51.0	00	00	23.5	27.5	00	25	864	07	30	783	81
6	00	25	904	07	10	804	100	03	48	49.1	06	35	19.3	29.8	03	46	899	07	08	671	228
7 Q	12	30	903	20	20	866	37	16	15	38.9	23	00	25.1	13.8	07	15	846	17	45	814	32
8	23	55	938	17	42	824	114	14	42	43.4	23	48	16.6	26.8	23	59	904	16	45	784	120
9 D	04	53	1064	07	03	702	362	05	55	46.8	07	15	09.1	37.7	02	00	959	07	07	563	396
10	07	20	936	07	05	845	91	06	15	50.6	22	37	19.4	31.2	06	10	890	06	55	710	180
11 D	05	27	1031	06	20	695	336	05	35	64.0	07	10	03.1	67.1	03	06	971	06	15	558	413
12	23	05	921	10	23	825	96	11	43	38.4	18	40	20.2	18.2	00	07	886	10	32	704	182
13	22	15	909	13	22	806	103	04	58	47.1	21	00	20.2	26.9	04	55	867	13	37	747	120
14	01	55	924	10	16	784	140	06	30	41.1	10	03	16.6	24.5	03	00	923	10	15	667	256
15	04	31	912	20	00	847	65	04	28	43.2	23	37	22.7	20.5	23	59	892	18	07	811	81
16	00	03	924	05	02	837	87	04	27	49.1	21	40	21.6	27.5	00	07	905	05	00	740	165
17 Q	00	32	908	21	35	861	47	15	28	44.1	22	45	21.0	23.1	02	00	845	20	30	815	30
18 D	03	10	1042	15	05	721	321	12	05	47.6	21	12	14.7	32.9	03	02	993	11	08	603	390
19	23	28	940	09	20	801	139	05	07	49.6	09	22	15.6	34.0	00	02	896	09	15	692	204
20	03	20	950	22	20	864	86	06	23	41.2	00	38	16.1	25.1	03	15	952	06	30	776	176
21 D	23	35	927	10	11	787	140	08	25	46.1	11	55	20.5	25.6	04	28	926	08	30	707	219
22	06	15	923	08	48	833	90	15	40	37.8	06	16	17.0	20.8	05	22	908	08	03	760	148
23	06	40	935	07	37	769	166	06	40	46.3	07	40	19.5	26.8	00	02	886	07	30	720	166
24	22	07	909	08	50	749	160	08	55	46.3	22	45	23.3	23.0	03	55	896	07	38	748	148
25 Q	00	35	920	18	15	864	56	03	55	46.1	07	10	21.5	24.6	03	55	897	07	38	749	148
26	23	18	930	16	55	848	82	05	26	41.7	23	32	22.5	19.2	23	50	868	07	10	819	49
27	04	15	949	18	00	854	95	05	05	44.4	00	47	19.8	24.6	03	40	931	08	15	797	134
28	23	50	915	09	50	843	72	15	50	43.1	21	50	20.7	22.4	23	45	866	10	35	778	88
29	03	47	981	07	07	436	545	16	30	40.2	06	20	33.6	73.8	04	00	964	07	14	608	356
30 Q	00	05	928	17	00	858	70	15	10	39.2	21	00	23.0	16.2	03	42	864	09	00	800	64
31	15	42	919	15	21	858	61	13	48	40.0	23	30	21.8	18.2	00	20	853	16	32	805	48
Mean			942			801	141			45.5			17.0	28.5			903			735	168
No. days			31			31	31			31			31	31			31			31	31

MEANOOK MAGNETIC OBSERVATORY 1953-1954

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

Table 21 Meanook

H = 12,000  $\gamma$  +

June 1954

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	904	915	904	894	894	888	891	891	891	892	893	899	904	896	885	877	856	853	853	862	873	888	888	900	887	
2	907	910	910	893	889	889	894	902	808	896	861	897	900	893	898	885	877	877	877	877	871	877	893	902	887	
3	898	909	904	885	892	893	896	899	903	904	892	909	915	915	908	896	884	872	865	870	870	873	891	904	894	
4	924	906	904	907	900	911	845	938	693	837	892	896	906	908	908	896	884	873	866	868	885	882	885	885	883	
5 Q	893	900	899	899	896	896	894	896	899	901	901	901	909	908	906	896	884	868	868	874	888	893	900	915	895	
6	912	894	900	896	893	896	900	901	899	900	899	904	909	907	904	896	884	876	869	877	881	880	897	901	895	
7	907	909	904	893	896	900	898	899	899	901	904	908	913	896	900	891	900	891	884	877	874	874	877	893	895	
8 Q	909	917	897	898	892	889	892	896	897	902	900	905	910	908	907	898	889	888	888	888	885	886	894	900	897	
9	913	910	901	893	892	893	894	897	897	897	878	902	918	814	810	893	890	878	868	871	883	896	899	905	896	
10 D	921	943	894	901	896	913	736	869	909	885	885	860	878	895	897	897	885	886	885	886	892	885	876	882	886	
11 Q	878	892	891	894	878	868	886	878	866	876	877	886	893	892	893	899	901	898	862	860	866	878	889	902	883	
12 D	907	907	905	893	889	889	893	894	895	907	909	909	899	901	893	882	877	889	861	853	854	882	902	901	891	
13 D	901	911	906	902	900	901	897	898	898	885	885	890	898	914	909	898	886	859	867	864	879	883	890	903	893	
14 D	913	913	902	892	902	915	909	905	909	900	910	870	658	808	913	913	892	888	867	866	874	885	889	900	887	
15	910	900	901	897	886	893	907	897	897	899	900	901	905	901	895	889	883	871	860	869	884	870	882	897	891	
16 Q	902	900	897	891	892	892	894	893	897	892	894	910	910	910	909	907	895	878	858	860	865	874	878	892	891	
17	909	915	902	898	899	897	897	897	901	902	907	909	914	913	914	904	889	870	858	859	871	878	882	883	894	
18	893	905	910	910	908	902	900	901	905	902	901	901	900	902	905	902	897	877	862	855	846	858	871	893	892	
19	894	905	893	900	898	897	897	898	901	902	907	889	902	915	910	905	893	889	870	867	869	868	883	885	893	
20	892	914	901	913	894	900	896	885	901	900	909	913	910	908	908	905	897	878	864	854	864	875	883	899	894	
21	895	900	900	894	894	894	900	905	900	908	915	905	905	902	900	901	893	889	886	878	886	882	902	915	898	
22	918	936	976	1004	929	905	886	889	890	893	897	897	897	897	897	889	878	871	864	871	878	878	878	887	900	
23	901	902	889	893	894	894	897	899	905	900	894	902	906	903	901	893	893	878	875	876	861	878	892	894	892	
24 Q	891	892	908	900	893	894	898	896	901	902	902	901	901	901	893	889	889	878	878	869	874	884	894	892	892	
25	895	903	898	898	901	895	903	901	911	910	914	870	847	899	903	902	890	868	864	867	879	894	901	893	893	
26	902	906	901	890	895	901	901	906	902	893	870	881	911	918	910	899	886	875	879	888	910	908	903	906	898	
27	890	902	890	894	900	894	900	898	898	896	898	894	883	894	911	893	886	884	879	875	886	890	916	916	894	
28 D	918	948	963	947	894	900	883	858	854	838	852	810	910	900	909	893	886	869	874	880	878	885	897	901	889	
29	906	905	900	890	894	894	875	895	895	895	903	903	903	906	903	899	886	871	870	870	875	883	893	909	893	
30	911	911	911	898	898	893	890	898	890	885	890	898	901	914	914	908	890	878	863	863	876	879	910	926	896	
31																										
Mean	904	909	905	902	896	896	888	896	887	893	895	895	895	903	904	897	888	878	870	870	876	881	891	900	892	

**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 22 Meanook

D = 24° E + . . .'

June 1954

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	25.0	25.9	26.8	27.0	26.9	26.9	28.0	28.8	28.8	30.4	31.6	33.6	35.9	38.7	40.2	40.2	38.7	31.7	27.0	24.9	24.0	24.4	24.5	25.4	29.8	
2	25.9	26.9	27.7	34.8	39.6	27.8	27.4	26.9	26.9	28.4	27.8	34.3	39.3	41.7	42.7	39.7	38.2	23.7	28.8	25.9	24.0	23.3	23.5	25.0	30.8	
3	26.9	27.0	28.0	28.4	26.9	27.9	30.9	29.9	28.8	29.9	29.0	31.8	34.3	37.7	39.6	39.2	38.3	36.8	32.5	27.9	25.0	23.2	23.0	23.1	30.2	
4	24.0	26.0	26.9	26.9	27.9	27.8	39.6	34.3	48.5	38.2	35.3	34.8	37.7	38.6	39.6	40.2	40.7	39.1	32.5	28.8	26.0	23.4	22.4	23.0	32.6	
5 Q	25.0	26.4	28.1	28.9	28.6	28.8	29.0	29.9	29.0	29.0	29.9	33.3	34.4	37.3	39.2	38.8	36.8	33.3	27.9	25.0	24.0	23.1	23.0	23.9	29.7	
6	23.9	25.0	25.4	26.4	27.4	29.8	29.0	26.4	28.4	29.9	30.8	33.9	35.7	36.9	37.8	36.9	34.3	32.9	29.4	27.8	23.5	22.6	22.7	23.0	29.2	
7	23.5	26.4	26.4	29.4	31.8	31.4	28.9	28.4	28.9	30.1	30.6	31.9	33.8	34.3	38.2	33.9	34.8	30.9	31.0	30.4	26.9	25.1	23.0	23.5	29.7	
8 Q	25.0	26.4	27.9	29.2	29.3	28.4	28.9	29.9	30.8	30.4	30.4	34.8	36.1	36.3	36.3	35.8	32.8	30.4	28.9	26.9	26.4	25.4	25.9	30.2		
9	25.4	25.4	28.0	30.9	27.9	27.9	28.8	29.0	28.0	27.9	33.8	37.0	39.2	40.7	36.4	34.8	30.9	28.4	25.9	23.5	23.5	23.5	24.0	29.5		
10 D	25.0	28.0	32.9	25.4	26.0	26.5	19.1	34.8	29.4	29.9	29.4	28.4	31.7	38.1	39.7	27.8	28.6	28.4	28.4	29.8	29.9	27.8	29.4	21.8	29.4	
11 Q	35.2	38.2	38.7	38.7	37.7	34.7	37.3	35.8	33.3	28.9	27.9	28.4	27.9	26.9	25.9	26.8	31.4	27.9	31.5	28.8	25.9	25.6	25.4	25.9	31.0	
12 D	26.4	26.8	26.9	27.4	28.0	28.4	27.9	28.9	28.9	29.4	30.4	30.8	35.8	35.9	37.3	36.7	32.9	30.7	34.7	29.6	17.6	19.8	21.5	23.0	29.0	
13 D	24.5	25.9	30.9	31.8	29.0	26.9	27.9	28.9	29.9	31.8	31.8	34.8	38.2	41.8	41.2	42.7	39.8	40.7	28.8	25.4	21.5	20.5	21.5	22.0	30.8	
14 D	23.0	25.4	27.0	27.8	27.0	31.1	27.9	27.9	30.4	31.4	30.6	29.0	28.9	35.3	38.7	41.6	38.2	33.3	29.4	25.9	25.8	24.2	23.0	25.3	29.6	
15	26.4	27.3	27.2	27.0	28.8	31.1	28.0	28.9	29.3	29.7	30.3	31.8	34.0	35.1	35.3	35.8	35.3	32.3	28.8	27.7	26.2	24.2	23.0	24.1	29.5	
16 Q	24.5	27.0	29.9	29.9	29.0	27.9	27.9	27.9	29.0	32.8	40.7	31.8	33.9	36.3	36.9	38.2	36.8	35.3	31.9	29.7	26.8	24.5	23.0	23.0	30.2	
17	25.0	29.8	30.4	28.8	27.9	28.0	27.8	28.4	28.9	28.9	29.8	31.4	34.3	36.3	39.1	38.8	38.8	37.0	35.3	29.8	25.9	23.5	20.5	21.7	30.2	
18	23.0	25.0	26.9	27.0	27.4	28.4	28.4	29.8	30.1	30.9	29.4	31.7	34.3	37.6	37.7	37.8	39.2	42.0	40.2	30.9	24.9	16.6	17.6	21.0	29.9	
19	23.5	25.4	27.8	27.9	27.9	29.8	28.3	30.7	28.8	29.0	27.9	27.9	29.9	34.8	37.4	38.7	38.7	38.8	35.1	30.9	26.4	25.0	23.5	22.0	29.8	
20	21.9	21.9	26.4	27.0	26.4	26.9	30.4	20.9	28.9	27.8	30.0	31.8	33.8	36.8	37.7	38.2	38.6	38.0	36.9	31.8	26.9	23.0	22.1	22.5	29.9	
21	22.9	24.7	26.9	28.1	28.8	28.4	28.7	28.7	30.1	30.4	31.9	31.9	37.7	38.7	38.8	37.7	37.7	37.6	34.8	31.7	28.4	24.0	22.1	20.5	30.5	
22	28.0	25.5	21.7	23.0	27.4	28.9	24.3	29.0	27.8	27.8	28.4	30.8	33.7	35.3	35.8	36.3	37.3	34.8	33.8	30.8	27.1	23.0	19.9	19.5	28.3	
23	21.0	23.0	27.1	26.9	27.9	27.9	27.9	28.2	28.3	29.9	30.4	32.7	34.6	35.8	35.8	36.7	37.2	37.7	34.3	29.9	23.0	24.0	25.3	24.3	29.6	
24 Q	25.4	25.5	26.5	27.9	31.0	28.9	27.4	27.9	28.5	29.4	30.4	31.9	33.3	35.3	36.9	36.9	35.2	32.7	30.5	26.9	25.0	22.9	22.9	23.5	29.3	
25	24.0	25.1	26.4	26.9	27.0	28.4	27.8	28.4	28.9	29.6	29.9	29.0	27.9	34.8	40.7	40.7	37.7	33.9	31.5	30.8	26.4	23.5	24.0	25.0	29.5	
26	25.9	26.8	27.0	26.9	27.6	27.4	27.9	26.9	29.4	28.1	26.9	27.0	31.8	37.2	37.7	37.7	36.2	34.3	28.9	25.0	24.0	22.1	23.5	25.4	28.8	
27	25.9	27.4	28.0	28.5	28.6	28.3	27.9	27.8	27.4	28.9	29.4	30.0	30.4	33.4	37.7	38.7	37.3	33.9	30.4	27.1	26.2	23.0	25.3	25.0	29.4	
28 D	25.1	27.4	28.7	37.7	25.9	26.2	41.2	37.7	32.3	29.9	26.4	30.4	34.7	37.7	37.8	38.1	36.3	34.8	28.9	26.9	22.6	21.5	23.0	24.0	30.6	
29	26.9	29.9	30.4	30.3	29.4	28.9	43.8	28.6	26.4	26.9	29.7	30.8	34.3	37.3	37.2	37.7	36.9	32.1	25.0	23.5	21.0	21.1	22.9	24.1	29.4	
30	25.9	26.8	27.8	27.3	26.8	28.5	28.0	27.4	31.4	30.9	27.9	31.9	35.3	37.8	40.0	38.7	36.7	33.8	28.8	26.4	25.0	24.0	24.5	21.5	29.7	
31																										
Mean	24.8	26.3	28.0	28.8	28.7	28.6	29.5	29.6	29.9	29.9	29.7	31.5	34.0	36.6	37.9	37.5	36.6	34.4	31.2	28.2	25.0	23.3	23.2	23.7	29.9	

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

Table 23 Meanook

z = 58,000  $\gamma$  +

June 1954

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	850	853	864	856	853	845	844	843	842	831	820	820	842	842	836	835	833	831	828	828	833	833	833	833	833	839
2	840	843	853	870	860	851	844	843	844	814	691	758	826	831	840	840	840	833	831	831	831	840	851	853	832	
3	847	847	850	853	864	862	795	803	825	833	796	814	847	847	843	841	841	841	825	824	831	831	842	847	835	
4	858	859	853	862	864	886	769	755	689	698	808	817	842	847	848	847	836	836	831	830	833	842	842	846	825	
5 Q	842	847	847	846	846	845	842	841	842	828	831	840	842	842	842	836	828	828	831	831	831	833	841	848	839	
6	853	853	853	851	853	853	847	844	837	837	840	842	844	836	836	831	831	826	826	828	831	833	844	851	841	
7	853	855	855	853	847	833	840	840	840	837	838	841	842	828	824	813	817	816	817	818	828	832	833	842	835	
8 Q	843	853	853	853	853	847	844	841	825	831	833	834	840	840	840	840	833	828	828	828	828	831	836	840	838	
9	844	848	854	853	842	842	840	840	840	822	774	787	836	832	833	833	833	832	820	820	820	830	841	846	832	
10 D	854	896	898	855	844	853	750	828	853	820	821	766	786	841	837	836	836	836	836	836	833	820	886	896	838	
11 Q	814	831	831	831	831	831	831	831	832	842	847	847	851	855	855	859	862	847	831	826	825	831	831	832	838	
12 D	833	833	833	835	836	836	834	834	834	834	834	831	825	820	820	820	810	808	818	831	830	842	842	842	830	
13 D	842	858	870	842	846	864	853	851	848	764	777	800	825	834	836	833	822	817	820	814	817	825	831	836	830	
14 D	842	843	844	845	855	875	855	831	837	778	828	774	626	794	842	840	831	831	831	828	831	833	833	833	823	
15	841	841	840	837	840	833	806	817	818	828	835	833	833	836	836	831	827	828	822	822	831	833	840	851	832	
16 Q	853	864	864	864	851	840	838	837	832	764	787	831	840	840	838	831	825	820	811	812	818	826	831	832	831	
17	853	858	854	844	841	840	835	831	831	831	831	832	831	831	831	831	831	821	817	817	817	825	852	833	834	
18	832	833	833	833	833	833	836	833	831	828	828	833	836	831	831	825	818	815	812	817	820	820	831	841	828	
19	840	842	842	841	841	854	847	842	833	836	840	821	820	836	824	833	823	822	820	822	822	828	836	842	824	
20	842	864	870	862	855	853	842	808	898	784	811	828	831	836	831	828	828	828	822	822	822	832	842	853	837	
21	846	841	836	830	830	830	832	821	824	827	814	819	823	825	825	824	816	819	824	819	819	821	835	863	828	
22	885	910	930	951	923	894	846	827	835	835	834	840	841	840	836	832	819	819	824	830	839	841	843	854		
23	843	854	861	843	832	832	839	835	835	827	827	821	831	831	839	835	824	813	814	817	816	816	820	830	831	
24 Q	835	840	844	852	863	857	849	835	819	830	832	832	832	832	834	834	833	829	821	821	824	821	831	832	835	
25	832	832	833	833	832	832	830	830	830	830	830	830	784	724	790	807	807	807	817	819	827	827	824	827	818	
26	830	835	837	831	832	832	831	837	819	805	749	743	785	824	823	827	824	819	824	824	827	827	827	841	819	
27	841	851	839	835	836	842	842	839	829	824	827	824	810	810	824	824	824	821	820	820	827	827	833	852	831	
28 D	869	894	920	892	859	843	796	785	772	705	696	825	840	830	821	824	824	824	829	828	832	832	834	840	826	
29	840	840	841	839	839	840	819	841	835	821	825	824	827	830	834	824	824	823	821	821	824	829	841	846	831	
30	844	842	842	841	840	840	840	832	819	763	796	817	821	831	830	830	829	824	824	824	829	830	841	876	829	
31																										
Mean	845	852	855	851	848	847	831	829	828	810	810	817	822	829	833	831	828	825	823	823	826	830	838	845	832	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24 Meanook

June 1954

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +			Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +					
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$			
1	01	55	931	18	40	845	86	14	41	42.9	21	50	22.3	20.6	03	55	870	10	55	797	73
2	02	05	942	09	55	821	121	04	15	48.6	22	00	22.5	26.1	04	00	898	19	50	662	236
3	23	54	933	21	05	854	79	14	43	42.2	22	13	22.4	19.8	05	12	875	06	48	735	140
4	06	13	937	08	22	452	485	08	22	59.9	22	45	21.0	38.9	05	22	898	09	10	619	279
5 Q	22	53	925	18	48	861	64	15	58	40.2	23	00	21.9	18.3	00	30	853	09	12	822	31
6	00	32	921	18	40	859	62	14	07	39.0	23	00	22.0	17.0	03	40	864	17	55	821	43
7	12	15	926	22	24	861	65	14	35	40.2	22	22	22.4	17.8	00	52	859	15	05	808	51
8 Q	01	00	952	18	54	864	88	14	40	37.7	00	13	23.7	14.0	01	37	863	08	17	808	55
9	23	57	928	19	30	840	88	14	32	42.3	20	35	23.1	19.2	02	55	864	10	07	757	107
10 D	01	22	964	06	50	245	719	06	25	42.8	07	00	32.1	74.9	02	07	967	06	45	394	573
11 Q	16	07	909	09	45	844	65	02	52	40.8	23	12	24.9	15.9	16	40	876	22	05	774	102
12 D	17	42	918	19	33	837	81	19	35	39.2	20	28	15.1	24.1	21	22	856	17	53	805	51
13 D	01	43	922	19	35	843	79	17	33	47.1	20	15	18.1	29.0	02	25	878	09	12	747	131
14 D	00	43	936	12	16	474	462	15	20	42.9	11	55	14.7	28.2	05	20	888	12	15	477	411
15	00	23	934	19	05	858	76	05	46	39.0	22	05	22.3	16.7	23	55	853	06	37	777	76
16 Q	01	00	916	19	12	851	65	15	52	38.8	22	41	22.3	16.5	03	07	872	10	03	828	44
17	12	25	923	19	05	852	71	15	17	41.1	22	38	20.0	21.1	01	20	864	18	00	814	50
18	02	10	913	20	33	827	86	18	10	40.7	21	25	14.2	26.5	23	50	844	12	10	813	31
19	01	16	952	20	27	853	99	15	46	41.2	23	45	21.7	19.5	06	00	864	12	10	811	53
20	03	33	922	19	35	848	74	16	53	40.1	01	45	20.8	19.3	02	35	856	09	02	756	100
21	23	48	931	19	35	866	65	17	14	41.6	23	35	18.1	23.5	23	58	885	07	50	796	89
22	03	18	1073	19	42	862	211	06	42	40.1	01	24	13.8	26.3	03	07	979	06	50	806	173
23	01	37	911	20	10	856	55	17	49	40.7	00	05	20.3	20.4	02	40	869	19	15	805	64
24 Q	22	50	932	19	17	862	70	14	42	38.2	23	30	20.5	17.7	03	07	874	08	25	812	62
25	15	17	916	12	55	822	94	14	12	44.1	21	30	21.7	22.4	00	37	841	13	22	700	141
26	00	32	924	11	16	851	73	15	42	39.6	21	20	21.0	18.6	23	32	844	11	14	720	124
27	23	32	940	12	16	867	73	15	15	40.7	21	22	22.5	18.2	23	35	861	12	18	799	62
28 D	02	45	996	10	04	740	256	06	30	53.0	03	02	19.1	33.9	03	02	967	10	05	574	393
29	23	56	931	06	14	859	72	06	20	41.8	21	05	20.3	21.5	23	55	855	06	42	774	81
30	23	58	953	14	20	855	98	14	55	41.7	23	40	18.1	23.6	23	50	908	09	05	718	190
31																					
Mean			937			801	136			42.3			18.6	23.7			878			744	134
No. days			30			30	30			30			30	30			30			30	30

MEANOOK MAGNETIC OBSERVATORY 1953 1954

98593-6

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

Table 25 Meanook

H = 12,000  $\gamma$  +

July 1954

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	909	955	921	908	918	889	798	866	884	878	875	875	871	855	871	885	885	874	863	869	874	877	886	892	882	882
2 Q	894	899	898	889	890	886	885	885	889	889	892	892	900	883	883	883	878	863	858	860	870	874	884	896	884	884
3 Q	905	908	905	905	904	898	886	901	902	905	907	907	909	901	893	889	892	885	877	869	871	878	889	892	895	895
4 Q	908	902	897	899	902	900	893	897	902	902	905	896	889	901	902	902	902	897	894	890	878	876	886	894	896	896
5	908	900	899	900	886	884	889	892	902	902	902	902	905	908	889	909	897	897	889	889	875	868	871	892	894	894
6	903	914	914	914	903	914	877	699	683	702	718	785	898	929	926	901	897	878	875	885	895	893	892	914	863	863
7	904	919	895	891	887	886	880	884	880	794	801	778	887	903	903	902	895	894	880	879	879	873	873	887	877	877
8	891	895	896	891	888	887	887	888	888	884	888	840	884	902	902	899	888	880	873	873	873	880	880	879	885	885
9 Q	903	919	904	894	886	906	887	880	884	888	888	891	894	904	896	894	884	876	857	863	871	873	877	884	888	888
10 Q	894	901	902	902	892	892	899	892	877	894	900	899	900	899	894	893	897	885	868	867	870	882	893	900	891	891
11	895	899	904	902	903	884	886	889	889	907	907	905	900	907	901	892	882	877	866	882	900	902	902	905	895	895
12	905	885	889	897	897	903	907	907	902	902	902	914	914	917	897	890	885	885	874	871	878	891	897	902	896	896
13	874	889	892	893	892	886	886	889	886	886	900	901	895	886	902	905	894	885	874	874	877	882	897	923	890	890
14 D	897	910	908	925	897	874	892	901	901	878	662	816	900	925	910	893	855	878	889	878	878	889	889	884	880	880
15	880	893	893	901	898	908	872	730	796	864	761	642	863	847	850	886	886	871	871	875	886	887	900	903	857	857
16	897	897	889	892	891	891	893	897	893	889	908	874	862	885	910	897	885	874	886	869	859	869	876	899	887	887
17	890	890	915	918	935	911	794	877	889	884	895	891	891	891	895	896	884	871	858	854	860	874	897	909	886	886
18	929	908	916	939	897	886	880	883	896	897	898	899	900	902	908	903	886	878	862	864	875	884	887	886	894	894
19	896	902	899	891	888	894	895	887	887	896	895	865	864	904	899	904	895	884	888	895	880	892	892	907	892	892
20	912	905	880	902	894	892	912	887	826	763	888	902	902	896	895	885	872	887	886	888	892	892	891	887	885	885
21	902	893	898	894	895	897	889	889	900	897	897	896	892	897	885	885	885	885	892	884	878	885	894	896	892	892
22	892	905	897	896	897	900	897	882	885	901	901	882	886	897	900	902	889	889	878	871	874	874	886	892	890	890
23	893	893	897	898	897	897	900	896	891	906	899	799	877	896	900	896	885	872	867	881	885	891	901	905	888	888
24	863	909	889	893	893	884	885	856	862	877	865	868	876	904	900	897	890	882	870	877	878	894	892	896	883	883
25 D	900	913	895	912	909	959	876	765	765	888	811	744	779	862	893	896	884	876	877	877	884	891	900	904	869	869
26	901	878	886	889	885	892	893	894	886	882	876	835	717	870	869	897	898	878	878	878	886	889	894	895	877	877
27 D	907	909	917	917	894	901	889	892	892	892	894	886	846	839	874	901	897	871	853	860	874	885	925	918	889	889
28 D	887	900	903	906	916	883	880	882	895	890	671	731	649	876	900	887	872	851	876	876	884	884	905	900	863	863
29	915	940	919	898	892	884	891	883	869	813	848	818	889	890	887	898	890	884	874	880	880	887	891	903	884	884
30	932	883	891	888	889	895	888	893	891	885	897	892	896	899	885	892	884	868	862	861	867	873	891	906	888	888
31	909	896	885	896	882	885	891	862	845	891	896	893	896	823	884	901	891	868	859	854	860	873	891	909	881	881
Mean	900	904	900	901	897	895	883	872	872	875	863	855	872	890	894	896	888	879	873	874	878	882	891	899	885	885



**DECLINATION**  
**Mean values for periods of sixty minutes, Universal Time**

**Table 26** Meanook

D = 24° E + . . .'

July 1954

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	24.5	25.9	27.7	26.4	29.4	38.2	32.3	35.3	28.4	26.8	28.8	31.0	35.3	30.9	36.8	38.6	34.3	32.7	30.4	27.9	26.0	25.7	25.0	24.9	30.1	
2 Q	26.9	28.4	29.9	30.0	29.9	29.2	29.9	28.4	29.0	28.9	29.3	30.7	31.6	33.7	34.8	36.3	37.7	36.8	30.4	27.4	25.1	22.9	23.7	24.7	29.8	
3 Q	26.4	28.4	28.3	26.7	27.9	28.8	34.7	30.1	29.4	29.4	31.3	32.7	33.8	34.9	36.8	36.3	36.7	33.8	30.8	25.1	22.0	21.1	21.1	24.0	29.6	
4 Q	25.3	27.8	28.9	28.4	28.9	28.4	28.4	30.0	31.6	30.7	31.1	31.9	35.8	38.8	37.7	39.2	37.7	35.7	31.9	30.2	27.4	25.1	24.1	24.9	30.8	
5	26.3	27.8	27.9	28.4	28.5	30.4	29.8	28.0	27.9	27.9	30.8	31.8	34.8	36.8	35.8	37.6	35.9	33.9	29.6	25.7	24.6	22.0	22.5	24.0	29.6	
6	25.4	26.9	26.9	26.8	26.4	29.8	29.7	46.6	35.3	35.3	26.4	32.8	38.8	39.6	42.7	41.2	36.8	36.8	33.9	29.4	26.4	23.0	21.0	23.0	31.7	
7	24.0	27.9	30.1	27.0	27.4	27.9	30.8	32.8	29.0	26.8	32.7	31.8	31.8	35.8	38.1	37.7	36.7	34.8	30.4	28.4	28.4	26.4	24.4	24.3	30.2	
8	24.5	25.4	26.9	27.9	27.9	27.9	27.9	28.1	28.8	28.9	26.9	30.3	34.8	35.8	37.3	40.1	39.7	37.3	33.8	27.9	26.9	26.9	26.1	25.9	30.2	
9 Q	25.8	26.6	32.7	29.9	29.4	27.4	27.8	27.7	29.0	27.0	28.6	30.9	32.7	34.2	34.3	34.7	32.9	28.9	26.3	23.5	22.4	23.0	24.0	28.9		
10 Q	25.4	25.9	27.7	27.8	28.0	29.0	26.9	27.3	33.8	31.8	29.9	31.7	33.7	37.7	36.9	36.8	35.8	34.8	30.9	25.9	24.5	24.5	24.4	24.9	29.8	
11	25.3	27.7	27.8	27.5	27.8	32.2	31.1	27.0	26.3	29.4	30.9	32.8	33.1	33.8	35.3	35.3	35.7	35.3	29.9	25.4	22.9	22.9	24.0	24.9	29.4	
12	25.9	26.9	26.4	25.9	27.8	26.4	27.0	27.4	28.9	29.9	31.5	33.8	36.3	37.8	36.8	37.3	35.8	33.1	30.0	25.8	24.6	24.6	24.7	27.8	29.7	
13	26.8	26.4	27.4	28.0	27.8	29.4	29.9	27.9	29.4	31.7	28.9	30.9	31.8	33.7	37.8	40.6	40.7	38.7	33.3	30.0	26.4	23.5	23.5	25.4	30.4	
14 D	27.4	27.7	28.9	33.9	35.9	35.6	36.8	30.0	29.9	29.9	22.0	37.7	39.1	36.9	39.7	41.7	36.8	33.3	30.9	25.8	23.1	23.0	23.5	24.5	31.4	
15	26.4	26.9	27.9	28.9	32.7	29.8	28.9	43.7	33.8	33.7	35.7	31.8	37.3	33.8	36.3	36.4	34.8	31.4	26.9	25.0	25.9	25.1	25.4	25.9	31.0	
16	26.4	27.9	27.8	27.4	27.4	28.4	31.1	32.8	29.4	31.5	31.8	31.2	28.4	30.4	37.3	40.2	38.2	34.3	30.8	30.8	16.8	15.6	18.4	22.6	29.0	
17	25.4	27.1	26.1	28.6	28.7	25.1	16.3	25.3	31.3	30.5	30.3	31.8	34.9	38.1	39.4	38.9	37.9	37.9	30.9	26.9	24.2	23.4	23.1	22.4	29.3	
18	21.1	21.8	23.5	25.1	25.3	26.1	27.2	27.3	28.4	28.6	28.9	31.3	33.2	35.5	36.6	36.5	37.8	37.0	33.3	30.4	27.0	23.9	22.5	23.5	28.8	
19	26.0	26.8	27.4	27.0	27.4	26.8	29.9	29.9	31.9	32.7	29.8	30.4	29.9	35.3	36.1	37.7	37.7	34.7	30.9	24.9	24.0	20.9	23.5	24.0	29.4	
20	25.0	25.8	28.8	28.4	29.9	44.7	34.9	30.8	27.9	22.9	26.9	28.9	34.8	36.8	37.2	38.2	35.7	32.8	29.9	28.2	27.9	27.9	25.9	25.4	30.6	
21	25.8	26.4	27.0	28.9	28.9	29.4	26.9	29.8	29.9	29.9	29.8	29.4	31.4	32.8	34.3	36.3	36.3	35.8	29.4	28.0	26.1	25.1	23.0	23.0	29.3	
22	25.0	25.4	28.4	27.9	27.9	27.8	27.9	29.0	33.9	30.9	28.4	27.9	30.9	34.8	36.8	38.6	37.3	36.3	29.9	25.4	23.0	23.0	25.1	26.0	29.5	
23	26.9	28.3	28.4	28.0	28.9	26.9	28.0	30.9	30.7	30.9	28.9	24.1	35.4	38.7	38.7	35.8	36.8	35.3	32.8	27.9	24.5	23.9	24.4	24.1	30.0	
24	25.4	32.8	27.9	27.9	28.7	37.3	34.9	28.4	38.7	31.5	30.9	31.0	30.4	36.2	40.2	39.7	38.2	35.8	31.4	26.9	26.0	27.9	28.8	27.9	31.9	
25 D	28.3	26.9	27.9	26.4	30.9	31.6	31.8	47.6	42.1	32.8	25.9	36.7	44.6	39.7	40.7	40.5	38.2	34.8	29.4	26.8	25.4	25.4	27.0	28.4	32.9	
26	28.0	26.4	26.3	27.9	32.8	31.9	30.0	29.8	28.9	27.8	27.9	33.7	32.3	34.8	31.9	36.8	35.8	32.8	25.6	24.0	24.0	24.9	25.1	25.0	29.3	
27 D	26.4	26.1	30.4	33.3	27.3	27.4	27.9	26.9	29.0	30.0	30.0	31.6	26.8	29.4	33.3	38.7	34.8	32.9	27.9	24.0	23.0	23.0	25.4	25.9	28.8	
28 D	26.9	27.0	27.4	27.9	39.6	28.8	30.4	30.4	30.8	27.9	20.0	48.6	38.6	33.3	41.2	42.2	35.3	30.1	23.5	23.7	23.7	24.0	25.9	27.4	30.6	
29	27.9	33.3	38.8	29.8	28.3	26.8	30.0	35.6	31.9	31.8	29.9	23.5	34.9	38.6	35.9	38.7	39.2	36.8	33.3	27.0	27.0	25.9	25.9	26.8	31.6	
30	26.8	30.0	27.9	27.4	27.6	27.8	27.0	29.0	29.8	29.0	31.9	30.8	35.2	34.8	34.7	36.9	36.8	34.9	28.9	25.4	23.1	22.8	23.0	24.0	29.4	
31	25.9	27.4	27.9	32.3	32.9	28.9	29.3	43.3	42.7	34.3	28.9	31.0	34.3	31.8	33.1	38.6	38.7	34.8	28.0	22.9	19.5	19.5	24.6	27.4	30.8	
Mean	25.9	27.3	28.3	28.3	29.3	29.9	29.6	31.6	31.2	30.0	29.2	31.8	34.1	35.3	36.9	38.2	36.9	34.9	30.2	26.8	24.6	23.8	24.1	25.1	30.1	

MEANOOK MAGNETIC OBSERVATORY 1953 1954

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

Table 27 Meanook

z = 58,000  $\gamma$  +

July 1954

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	897	909	914	864	872	839	797	807	819	807	805	805	796	785	779	800	793	824	819	819	830	829	832	832	828	
2 Q	840	840	839	839	839	835	840	807	819	819	827	829	830	820	816	820	821	819	830	821	824	830	839	835	828	
3 Q	835	835	835	835	835	842	850	840	839	839	839	831	830	830	830	825	824	824	819	816	816	816	827	827	831	
4 Q	835	839	839	839	835	832	839	830	821	830	827	817	810	820	830	830	825	819	816	821	827	827	827	827	828	
5	839	840	840	841	841	841	835	819	817	817	821	829	827	821	796	796	805	805	807	813	813	819	825	836	823	
6	836	858	873	872	887	888	831	660	639	774	746	685	807	854	858	841	827	824	824	830	830	830	840	846	815	
7	850	888	874	852	840	832	832	835	817	695	607	684	772	810	834	830	827	821	816	816	824	831	830	831	810	
8	829	829	829	827	824	821	819	819	819	819	795	706	752	805	823	824	821	816	817	817	817	817	825	831	812	
9 Q	832	836	845	835	831	824	822	813	819	819	819	819	816	816	819	819	814	813	806	806	810	814	819	817	820	
10 Q	820	823	830	831	841	835	824	825	774	773	825	829	821	821	824	822	822	819	817	817	817	821	827	827	820	
11	836	834	834	835	835	836	830	807	772	816	827	824	824	824	824	827	819	816	810	813	819	824	827	841	823	
12	842	843	841	837	841	832	830	830	827	816	819	827	826	825	819	810	796	791	792	790	796	813	839	863	823	
13	859	841	835	835	836	841	835	832	805	772	799	821	819	799	813	821	819	813	819	819	819	824	829	843	823	
14 D	851	863	873	898	796	736	830	830	819	802	593	652	774	832	840	820	805	821	827	816	816	825	840	841	808	
15	844	839	830	835	846	846	774	531	690	718	596	584	704	757	741	794	810	810	810	814	819	821	821	831	769	
16	829	832	830	830	825	825	827	816	807	791	792	783	772	799	819	819	820	820	815	824	825	831	839	829	817	
17	820	826	848	884	893	845	650	707	815	812	828	822	825	823	820	818	815	813	811	804	806	810	820	838	815	
18	868	852	851	901	870	829	820	818	819	820	824	826	826	826	826	821	818	818	818	816	816	823	824	838	832	
19	851	851	845	838	834	829	829	812	815	815	816	790	773	824	818	812	810	808	806	815	815	818	823	829	820	
20	842	862	851	843	844	818	838	818	695	684	851	783	820	812	812	815	808	806	812	812	813	818	823	823	813	
21	829	829	829	834	823	827	820	782	818	823	822	813	805	804	795	808	809	815	806	806	815	816	827	840	816	
22	826	839	839	834	833	834	826	756	778	813	812	771	883	809	820	811	762	784	813	815	822	820	820	820	814	
23	820	826	829	830	831	829	829	823	818	818	823	673	745	804	815	820	829	829	820	820	820	828	829	840	814	
24	853	890	853	842	844	839	829	805	786	764	764	762	764	826	831	735	834	828	824	826	826	828	834	834	818	
25 D	831	839	840	862	881	894	806	610	712	774	717	570	617	723	800	829	831	835	834	832	829	834	834	851	791	
26	861	851	849	851	851	826	818	818	773	756	740	670	579	740	767	798	808	818	820	820	809	820	829	823	796	
27 D	829	845	887	896	858	831	797	786	826	812	811	811	767	767	776	810	821	820	826	826	831	831	853	863	824	
28 D	862	840	841	844	857	774	783	793	815	814	525	572	564	717	804	783	795	815	825	836	829	834	851	861	785	
29	868	917	868	849	841	768	785	796	791	717	729	694	762	795	825	828	824	818	825	829	828	823	830	838	810	
30	862	861	861	840	834	834	829	829	826	801	820	823	822	823	829	826	826	826	829	826	828	828	828	835	840	831
31	844	849	845	853	835	838	831	793	695	771	818	818	811	756	791	818	824	818	818	819	823	829	840	849	816	
Mean	843	849	848	849	844	830	816	789	790	790	775	759	782	802	813	814	815	816	817	818	820	824	831	837	815	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28 Meanook

July 1954

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range '	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 D	01 05	996	06 10	715	281	05 10	45.6	05 57	19.3	26.3	02 27	922	06 05	707	215
2 Q	12 40	914	21 18	858	56	18 17	38.4	21 12	21.5	16.9	02 20	840	06 33	782	58
3 Q	03 07	914	20 17	867	47	06 27	39.7	22 25	20.3	19.4	06 20	855	21 30	815	40
4 Q	03 18	914	21 05	872	42	13 27	40.7	22 45	23.5	17.2	03 35	841	21 10	805	36
5	13 00	913	21 48	858	55	16 53	39.8	21 25	21.5	18.3	23 40	843	15 00	787	56
6	06 32	945	07 53	587	358	07 45	62.8	11 00	-01.1	63.9	05 02	909	08 27	560	349
7	01 23	936	09 48	654	282	09 31	39.2	09 43	20.0	19.2	02 55	903	10 50	511	392
8	13 47	914	11 13	822	92	15 25	42.7	00 05	24.4	18.3	02 18	841	11 20	696	145
9 Q	02 22	920	19 10	860	60	02 40	36.6	21 30	21.5	15.1	02 30	855	19 05	802	53
10 Q	02 00	916	08 14	839	77	08 30	40.9	21 30	23.7	17.2	04 35	853	08 14	739	114
11	02 22	914	19 35	866	48	05 58	37.7	08 00	19.7	18.0	05 25	851	08 18	752	99
12	11 52	924	19 34	864	60	15 00	39.2	21 08	23.5	15.7	23 42	878	19 32	785	93
13	23 03	936	00 20	866	70	16 02	42.0	22 20	22.9	19.1	00 05	875	19 32	741	134
14 D	03 40	958	09 25	596	362	05 40	52.5	09 05	14.1	38.4	03 35	930	10 25	548	382
15	06 05	937	11 15	421	516	07 10	55.5	11 25	11.2	44.3	05 52	854	10 55	408	446
16	09 52	917	12 45	821	96	15 57	42.2	20 32	12.9	29.3	22 50	853	12 48	751	102
17	05 25	937	06 50	620	317	15 25	40.3	06 32	-05.3	45.6	03 34	921	06 40	526	395
18	00 05	1005	02 00	825	180	17 00	39.7	00 05	15.1	24.6	03 09	945	08 23	810	135
19	16 44	923	12 09	858	65	15 23	41.0	21 22	19.5	21.5	01 17	854	12 10	737	117
20	06 18	941	09 35	680	261	05 30	67.8	09 35	17.6	50.2	03 24	888	09 35	589	299
21	06 32	913	22 02	864	49	15 03	39.7	22 00	21.5	18.2	23 42	851	07 10	766	85
22	07 05	918	07 30	856	62	15 35	42.7	20 50	22.0	20.7	06 05	842	07 16	684	158
23	14 42	907	11 37	751	156	13 03	41.7	11 30	15.6	26.1	23 50	843	11 35	628	215
24	00 25	936	07 49	827	109	05 55	48.6	07 40	21.9	26.7	01 26	908	11 15	726	182
25 D	06 50	1021	10 52	661	360	08 09	55.4	10 55	11.5	43.9	05 25	928	10 55	548	380
26	22 15	924	12 15	545	379	12 56	43.7	11 19	19.7	24.0	03 42	864	12 15	394	470
27 D	03 10	944	12 55	803	141	15 48	42.7	07 03	20.8	21.9	03 00	940	12 57	737	203
28 D	04 44	1031	10 37	534	497	11 30	60.4	10 29	-01.1	61.5	04 15	954	10 39	385	569
29	01 07	959	11 18	739	220	02 27	49.6	05 48	12.7	36.9	01 40	970	11 20	591	379
30	00 27	959	17 50	836	123	17 51	40.2	20 35	21.5	18.7	01 47	881	09 37	770	111
31	23 31	924	13 23	786	138	07 48	63.5	21 15	17.6	45.9	03 48	884	08 03	648	236
Mean		939		760	179		45.6		17.1	28.5		883		669	214
No. days		31		31	31		31		31	31		31		31	31

MEANOOK MAGNETIC OBSERVATORY 1953-1954

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

Table 29 Meanook H = 12,000  $\gamma$  + August 1954

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	913	904	896	896	896	888	891	891	862	713	841	839	614	888	900	899	885	870	883	870	881	886	904	909	867
2	906	906	902	906	904	906	797	899	884	895	877	899	893	896	885	881	873	870	859	866	877	877	888	893	885
3 Q	900	892	893	895	895	891	895	895	895	903	852	905	895	903	900	903	887	869	864	864	869	869	890	912	889
4 Q	908	911	907	903	895	900	904	887	880	902	906	900	883	860	872	876	881	872	869	862	869	872	887	892	887
5 Q	899	900	890	887	887	895	892	892	891	891	883	887	888	886	848	907	891	872	856	845	869	891	905	923	886
6 D	934	938	938	947	926	892	894	876	804	782	884	906	809	806	908	899	876	864	862	880	876	890	883	923	883
7	900	887	903	885	881	883	887	885	887	814	757	757	791	812	828	894	911	884	880	876	880	876	898	898	865
8 Q	896	897	905	896	896	888	896	846	873	892	809	835	875	918	912	895	887	880	883	882	883	884	882	888	883
9	896	891	892	890	892	901	857	921	904	893	897	896	892	885	815	876	881	870	865	860	868	877	896	907	884
10	907	907	896	907	891	901	896	829	821	893	892	891	888	892	896	884	873	859	859	862	875	888	896	896	883
11	903	908	888	888	881	884	888	892	891	849	861	858	890	905	900	893	887	874	865	865	865	870	878	893	882
12	895	898	898	892	897	898	890	890	871	851	898	900	903	906	895	890	876	874	869	869	872	872	888	882	886
13 Q	888	895	895	895	900	887	892	884	857	875	912	907	900	907	900	880	872	864	876	892	895	896	900	907	891
14	900	875	885	896	892	888	895	893	899	803	868	899	896	896	900	884	870	862	865	871	881	896	896	901	884
15	900	900	895	888	890	889	890	885	885	891	894	896	903	905	904	892	877	868	862	853	875	881	907	880	888
16	900	896	898	904	903	904	915	908	841	810	672	657	830	774	877	898	877	877	877	877	878	881	902	890	860
17	904	904	900	897	896	907	846	874	791	732	868	897	904	905	904	896	881	865	862	870	887	887	882	892	877
18	896	894	885	886	894	891	862	877	868	838	900	891	896	823	877	896	885	885	877	877	877	883	893	881	880
19	910	909	902	902	904	902	902	891	893	893	891	893	883	899	893	879	879	868	862	862	868	886	897	900	890
20	893	897	892	893	892	877	885	901	898	898	896	870	877	882	873	877	870	880	877	877	877	874	885	893	885
21	891	903	904	906	931	946	876	892	621	821	535	933	895	903	892	892	883	880	872	862	872	873	883	899	865
22 D	911	919	906	923	959	853	872	876	887	896	883	867	864	848	883	895	884	872	860	854	874	891	864	872	884
23	891	884	876	880	887	887	884	890	890	895	892	866	865	883	882	888	872	859	858	852	858	889	887	905	880
24 D	930	882	904	881	905	812	687	788	901	907	879	902	883	816	725	868	887	860	851	851	874	880	891	905	861
25	876	895	895	898	895	883	899	890	864	883	884	890	892	892	885	875	864	856	867	872	876	880	880	890	883
26 D	887	887	895	905	919	902	906	903	856	861	894	867	856	836	851	868	871	861	868	869	879	875	890	891	879
27	916	970	902	891	887	892	894	902	887	889	869	871	871	892	894	882	866	848	842	849	856	882	890	905	885
28	895	884	895	901	915	865	895	887	890	891	870	728	875	907	905	895	882	869	864	864	872	884	887	911	880
29 D	876	875	887	865	880	911	766	792	535	621	869	916	891	882	911	899	886	858	843	858	872	887	887	901	849
30	907	882	886	885	888	890	854	729	732	878	818	780	873	890	884	850	851	859	884	873	883	888	889	896	860
31	880	880	885	893	891	892	889	881	888	907	894	896	901	885	881	882	870	863	843	859	862	873	880	896	882
Mean	900	899	897	896	899	890	874	876	850	854	856	868	870	877	880	887	879	868	865	866	874	882	890	898	879

**DECLINATION**  
Mean values for periods of sixty minutes, Universal Time

Table 30 Meanook

D = 24° E + . . .'

August 1954

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	28.4	28.8	29.8	34.3	31.4	27.4	27.0	27.7	28.0	21.1	25.9	39.2	28.9	39.8	44.5	44.6	39.7	35.3	28.6	25.9	24.7	24.5	24.6	25.9	30.7
2	27.4	28.5	29.0	43.2	33.8	30.9	21.6	30.0	28.4	30.3	25.0	29.9	33.3	35.8	35.9	35.3	34.9	30.9	24.9	18.6	18.2	18.2	22.1	24.9	28.9
3 Q	26.9	27.1	28.0	27.9	28.8	27.9	28.4	28.0	28.4	29.4	30.9	34.9	35.9	37.7	39.0	40.7	39.2	35.8	31.0	27.7	22.5	18.8	20.0	22.6	29.9
4 Q	25.0	26.9	28.4	28.4	27.0	26.4	26.9	48.1	39.7	32.9	29.8	31.4	31.7	32.8	40.6	42.1	39.7	35.8	30.0	25.0	22.5	22.0	22.2	24.9	30.8
5 Q	26.9	28.8	30.9	32.7	29.6	29.5	29.9	30.4	29.9	27.9	27.9	29.0	30.0	33.3	36.8	41.5	41.5	37.7	32.8	24.0	19.2	21.1	22.1	21.5	29.8
6 D	24.9	23.5	23.5	23.9	30.9	26.9	26.9	29.4	49.6	31.9	30.3	28.9	28.0	47.1	42.8	37.3	36.7	33.9	29.0	27.7	22.9	18.2	22.9	23.5	30.0
7	25.4	28.1	30.9	26.9	28.1	27.8	28.4	29.0	28.4	28.3	39.4	41.3	31.4	34.8	37.3	36.9	35.8	33.9	31.4	31.1	28.9	26.9	26.9	28.1	31.1
8 Q	28.4	30.3	29.4	28.5	28.9	28.4	29.9	25.9	26.4	34.8	22.0	33.8	39.7	37.7	38.2	36.8	33.9	32.8	31.8	30.9	27.9	27.8	26.0	25.9	30.7
9	25.6	26.9	27.9	25.9	26.4	26.9	15.0	26.9	29.4	29.8	31.4	31.8	31.2	31.8	28.0	30.9	32.2	32.7	31.9	29.9	26.9	26.0	24.0	25.0	28.1
10	26.9	26.9	26.9	28.9	26.9	28.9	28.8	31.8	24.0	29.9	28.0	28.9	30.9	34.7	34.8	34.8	34.8	35.3	33.7	27.8	23.5	24.0	24.0	25.0	29.2
11	24.1	28.9	27.1	28.0	28.8	26.9	28.6	32.8	28.8	25.9	28.4	29.4	34.9	34.8	35.8	36.8	38.2	33.3	29.4	27.0	25.4	25.9	27.8	28.4	30.2
12	28.8	29.0	29.0	28.4	30.9	28.9	31.5	37.3	30.0	30.0	31.8	31.9	33.8	33.8	35.8	35.8	35.8	31.8	28.4	26.5	27.9	26.9	26.9	27.5	30.8
13 Q	27.9	27.8	27.9	28.5	28.4	30.9	31.0	30.0	27.8	29.9	32.8	33.8	36.9	36.9	35.8	34.7	33.2	27.9	25.1	23.1	22.1	23.9	25.4	26.5	29.5
14	26.4	26.9	28.8	27.9	27.9	28.9	28.0	26.4	28.4	29.9	25.8	31.7	32.8	35.9	37.7	36.8	34.8	30.9	26.9	22.3	22.1	22.5	24.1	25.0	28.7
15	26.4	26.0	25.4	25.8	26.6	26.9	26.9	27.9	27.9	29.0	30.8	33.8	34.9	36.8	39.7	38.7	35.3	32.8	24.1	21.0	20.5	21.1	21.1	21.1	28.6
16	23.0	24.5	25.4	24.5	25.4	25.0	28.4	30.8	30.4	30.4	25.0	27.9	32.8	29.9	41.8	37.8	34.9	32.8	28.7	26.8	24.1	22.2	24.0	24.6	28.4
17	25.6	26.9	27.8	28.9	28.9	33.2	36.7	35.3	42.2	41.6	32.3	31.4	37.8	36.8	36.7	37.7	37.7	35.8	29.4	25.9	23.5	22.0	23.5	23.9	31.7
18	25.4	28.4	29.9	28.9	35.2	33.7	38.6	36.8	35.8	24.1	28.9	29.9	29.9	25.9	28.6	35.8	37.6	34.7	30.9	28.4	24.9	23.5	23.0	23.0	30.1
19	23.9	30.2	25.8	34.9	31.5	28.4	27.4	25.8	28.4	28.4	28.4	28.4	28.4	31.5	34.9	36.9	36.0	33.8	28.4	26.4	23.5	22.2	23.9	24.6	28.8
20	28.9	28.9	28.8	28.8	31.0	47.1	37.3	30.5	29.8	28.9	27.9	23.5	27.4	32.3	35.8	37.7	34.8	31.4	30.4	26.4	25.9	25.1	26.4	26.4	30.5
21	26.9	25.9	26.0	25.4	31.8	29.4	35.3	36.7	23.1	33.3	26.9	22.0	27.9	36.8	38.2	38.7	37.6	35.3	30.4	25.9	24.9	23.0	24.0	25.0	29.6
22 D	24.5	41.6	42.8	26.9	32.7	55.0	37.1	37.7	32.8	27.8	28.8	28.9	32.8	30.3	35.4	37.9	37.8	33.3	29.4	25.9	24.5	23.5	22.9	25.9	32.3
23	27.9	29.4	30.4	30.6	28.4	28.6	27.9	27.9	28.4	28.9	28.5	27.9	28.9	35.8	35.9	35.6	34.7	32.8	26.8	25.0	20.9	22.0	23.5	26.4	28.9
24 D	25.4	24.9	27.9	27.9	29.4	19.0	15.1	39.7	32.8	31.4	28.8	30.4	31.6	39.7	26.9	35.0	37.1	34.7	30.0	24.7	23.5	24.5	26.4	27.9	29.0
25	34.8	29.4	27.4	28.8	28.5	32.7	35.8	27.9	27.0	28.3	27.4	30.9	32.8	33.8	34.8	35.3	35.2	31.4	26.9	25.1	24.0	25.0	27.4	28.1	30.0
26 D	28.4	28.9	27.9	27.8	31.8	62.0	37.3	29.8	22.0	20.5	30.4	29.4	30.9	30.9	32.8	33.2	30.9	29.8	27.4	24.0	23.5	23.9	25.4	26.4	29.8
27	26.3	32.8	25.1	26.4	26.7	31.9	33.2	29.8	28.0	26.7	25.8	27.6	34.3	36.3	36.5	35.4	34.3	31.5	27.0	21.2	21.1	23.9	24.7	27.5	28.9
28	29.4	30.9	33.3	28.8	36.9	45.5	28.4	26.4	27.0	27.9	26.4	20.8	35.3	37.5	39.7	40.2	36.9	32.8	29.9	27.9	24.1	25.7	26.9	26.9	31.1
29 D	31.4	30.0	27.0	50.8	31.9	30.4	21.5	41.7	16.9	35.3	33.7	31.6	34.8	36.9	36.9	37.3	35.9	34.6	27.0	25.1	23.0	24.1	25.1	28.4	31.3
30	27.7	30.7	29.0	32.3	31.4	33.8	32.0	37.1	17.8	32.3	22.2	31.0	31.0	35.3	37.1	34.8	29.9	28.4	24.5	24.1	24.1	24.5	26.0	27.4	29.4
31	29.0	29.3	28.8	28.5	32.3	33.8	31.0	33.8	31.9	28.4	29.9	29.9	32.3	33.3	35.3	37.2	36.3	29.9	21.5	22.0	29.2	20.0	22.2	25.1	29.2
Mean	27.0	28.6	28.9	29.7	29.9	32.0	29.4	31.9	29.3	29.5	28.7	30.3	32.3	35.0	36.4	37.2	36.0	33.1	28.9	25.7	23.6	23.3	24.4	25.6	29.9

MEANOOK MAGNETIC OBSERVATORY 1953 1954



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

Table 31 Meanook

z = 58,000  $\gamma$  +

August 1954

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	846	849	845	849	840	840	829	829	763	560	673	697	597	748	806	823	820	820	820	824	830	838	838	838	793	
2	832	834	863	919	868	840	686	806	806	806	762	819	828	826	820	823	812	812	816	812	816	820	831	834	820	
3 Q	842	841	834	829	829	829	829	829	828	824	710	795	806	823	826	823	821	838	815	815	818	818	828	834	820	
4 Q	840	840	842	838	829	829	841	751	760	815	840	834	812	742	773	784	798	812	818	823	829	829	829	829	814	
5 Q	838	844	851	852	845	845	839	829	826	818	818	818	815	820	823	829	829	818	815	815	818	826	841	873	831	
6 D	893	907	965	975	952	868	840	806	559	699	732	823	756	715	806	838	826	820	818	828	845	857	858	873	827	
7	871	857	868	835	836	830	826	826	809	728	586	642	762	746	756	826	832	830	831	840	841	840	836	841	804	
8 Q	841	853	848	849	849	838	820	695	741	782	670	706	762	805	808	823	823	818	818	826	826	826	829	831	804	
9	840	831	840	840	840	851	728	840	834	826	829	829	826	813	751	775	806	812	815	818	826	829	841	860	821	
10	862	838	829	838	834	851	840	706	740	778	796	818	818	823	823	823	823	823	823	820	816	826	829	839	845	818
11	862	896	873	862	858	848	834	784	804	778	740	763	812	834	834	829	829	829	818	818	818	818	824	840	825	
12	841	851	851	852	850	823	838	793	753	738	768	818	829	839	829	829	829	824	829	829	829	830	840	840	823	
13 Q	838	829	829	829	829	840	840	829	751	751	802	826	826	829	822	818	818	812	806	816	816	816	826	838	818	
14	860	873	856	840	838	831	808	715	728	795	756	806	824	824	829	818	820	815	826	826	830	839	839	857	819	
15	862	852	857	851	841	829	829	829	829	829	829	829	831	829	829	826	820	815	809	809	818	829	840	839	832	
16	842	840	831	831	831	829	862	834	784	706	649	612	697	645	740	806	823	818	823	823	830	835	840	834	790	
17	835	835	840	838	838	840	736	755	624	589	695	794	818	829	829	828	828	828	826	824	819	823	829	830	797	
18	840	851	845	845	838	809	737	760	731	693	780	790	795	746	762	806	816	813	814	809	818	829	838	840	800	
19	872	876	838	833	802	897	848	794	838	838	838	808	811	820	820	829	823	811	820	820	826	826	838	841	832	
20	852	851	840	840	841	816	795	823	829	826	820	782	793	806	804	806	806	806	811	811	818	823	828	829	819	
21	830	838	838	849	898	887	793	806	675	717	670	692	802	828	829	834	829	829	824	818	818	818	823	833	807	
22 D	851	927	924	928	898	801	794	795	828	829	812	790	798	798	812	820	818	815	815	815	818	834	833	839	833	
23	849	857	860	851	840	834	829	828	828	822	818	790	762	782	825	835	826	826	826	828	834	840	836	838	828	
24 D	862	871	864	873	858	760	604	648	762	820	820	831	829	751	744	784	831	838	838	840	857	850	851	862	810	
25	874	853	839	839	839	840	806	820	791	795	806	823	829	829	829	828	829	829	813	815	818	826	829	838	827	
26 D	838	834	838	838	862	751	802	839	786	770	829	818	806	785	795	795	802	813	818	830	831	841	841	841	817	
27	849	969	882	855	838	845	838	813	811	810	794	795	820	820	820	820	820	814	833	832	838	840	842	861	836	
28	871	884	909	918	901	734	839	831	829	823	782	606	760	815	826	831	826	820	820	823	828	832	840	857	825	
29 D	889	870	871	872	842	845	745	650	476	608	740	839	826	818	838	834	826	826	829	834	829	840	842	851	802	
30	860	863	845	841	839	821	789	697	574	718	712	690	796	823	813	773	771	798	808	818	832	831	829	836	791	
31	839	838	830	828	829	809	795	745	746	818	820	819	819	812	798	798	798	801	804	818	829	835	840	839	813	
Mean	852	860	856	856	849	829	801	784	756	765	764	777	796	798	807	817	819	819	819	822	827	831	836	843	816	



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32 Meanook

August 1954

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +			Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +					
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$			
1	00	10	935	12	18	464	471	12	10	50.2	09	37	00.8	49.4	03	20	860	09	37	436	424
2	05	43	909	06	27	737	172	03	50	56.1	05	50	14.4	41.7	03	37	944	06	18	630	314
3 Q	11	18	919	10	30	814	105	15	27	42.2	21	00	17.4	24.8	01	15	851	10	30	641	210
4 Q	07	07	917	13	26	844	73	07	15	54.4	00	23	17.6	36.8	03	12	850	07	57	709	141
5 Q	23	54	942	18	55	840	102	15	34	44.1	20	17	17.6	26.5	23	55	909	12	00	800	109
6 D	03	53	967	09	45	613	354	08	10	56.9	09	55	08.2	48.7	03	12	996	08	25	502	494
7	22	54	974	11	22	652	322	11	12	55.0	09	31	20.5	34.5	00	02	992	10	25	529	463
8 Q	13	12	927	10	15	786	141	12	44	45.1	11	37	18.1	27.0	01	02	863	10	37	649	214
9	07	17	975	15	38	783	192	12	56	38.5	06	35	07.1	31.4	05	50	873	06	35	650	223
10	00	35	924	07	05	737	187	07	45	43.7	08	30	13.8	29.9	00	30	877	07	03	563	314
11	01	45	934	09	53	794	140	07	10	44.1	09	50	17.2	26.9	01	55	952	10	02	703	249
12	07	35	920	08	11	802	118	07	37	47.8	05	15	24.1	23.7	05	48	873	08	00	698	175
13 Q	12	58	923	07	10	818	105	12	56	44.5	19	43	20.3	24.2	05	55	851	09	23	710	141
14	07	47	947	10	13	841	106	14	02	39.2	08	00	20.6	18.6	01	45	884	08	02	666	218
15	22	37	942	19	40	842	100	15	52	41.7	21	47	18.4	23.3	00	05	871	18	20	806	65
16	06	14	941	10	55	411	530	14	27	45.5	10	45	05.2	40.3	06	27	886	10	51	496	390
17	05	50	982	09	30	665	317	06	00	55.0	06	28	18.6	36.4	05	27	859	08	50	542	317
18	04	50	916	09	20	764	152	06	00	46.1	09	18	16.5	29.6	01	25	862	09	19	586	276
19	06	17	913	19	23	841	72	03	42	45.7	07	07	21.9	23.8	01	13	897	07	20	746	151
20	06	18	920	05	33	854	66	05	42	67.4	11	15	22.0	45.4	00	20	862	05	50	751	111
21	04	54	986	10	30	284	702	06	50	53.0	10	35	02.3	50.7	03	25	909	10	55	588	321
22 D	04	55	1025	05	48	799	226	05	32	86.0	22	32	21.5	64.5	01	32	983	05	45	686	297
23	23	55	934	19	08	832	102	12	52	39.8	20	07	18.1	21.7	01	37	864	11	57	737	127
24 D	05	14	990	07	40	589	401	07	32	59.9	06	37	15.9	75.8	03	05	886	06	27	430	456
25	06	06	919	08	52	825	94	06	27	42.4	06	52	19.7	22.7	00	22	887	08	52	736	151
26 D	04	54	1021	13	45	804	217	05	13	69.2	08	53	13.1	56.1	04	55	940	05	32	705	235
27	01	53	962	17	32	775	187	05	58	42.9	20	35	19.9	23.0	01	40	1003	11	35	798	205
28	05	50	975	11	53	640	335	04	57	66.4	12	25	09.5	56.9	03	50	935	11	38	539	396
29 D	05	15	934	08	36	396	538	03	30	60.1	08	50	13.9	74.0	03	05	918	08	30	383	535
30	00	20	919	08	10	549	370	07	35	49.5	08	10	00.7	48.8	01	25	884	08	11	455	429
31	23	48	924	18	23	839	85	05	53	44.5	20	10	18.3	26.2	23	48	851	07	31	707	144
Mean			945			717	228			50.9			13.4	37.5			899			631	268
No. days			31			31	31			31			31	31			31			31	31

MEANOOK MAGNETIC OBSERVATORY 1953 1954

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

Table 33 Meanook

H = 12,000  $\gamma$  +

September 1954

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	912	893	891	896	902	898	884	861	849	826	798	884	884	794	773	838	846	865	834	863	868	904	917	1014	871	
2	1020	881	946	956	906	880	829	844	843	838	632	876	899	893	883	856	845	842	864	866	871	880	887	948	874	
3	887	891	887	887	887	895	863	863	856	801	629	363	833	895	863	809	825	876	848	829	853	883	911	911	835	
4	916	885	898	887	905	919	887	863	895	892	810	739	766	844	903	852	844	862	864	863	869	882	888	902	868	
5	880	872	885	903	887	881	656	751	809	895	649	785	793	862	868	876	867	848	861	872	880	903	898	895	845	
6	890	881	887	887	889	880	876	898	893	888	895	894	900	899	883	813	765	825	844	858	911	903	892	913	878	
7	900	917	902	1007	885	892	891	848	740	839	887	872	866	872	880	872	852	836	880	887	887	895	880	895	878	
8 Q	895	895	887	888	889	890	887	887	890	888	883	887	876	884	882	859	860	833	847	866	884	884	884	890	880	
9	890	890	890	861	895	892	814	797	809	853	883	887	876	861	782	811	860	852	851	864	876	876	895	894	861	
10	892	881	906	890	924	915	853	851	856	820	822	904	898	884	863	857	863	856	856	864	876	887	892	890	875	
11	887	887	887	880	895	911	880	714	906	911	876	687	574	825	884	887	868	842	856	861	872	881	892	895	852	
12 Q	894	892	897	885	885	890	891	887	887	880	812	852	880	908	903	886	868	850	861	866	880	881	887	888	880	
13 Q	890	890	892	890	891	891	890	872	887	882	880	883	876	894	887	875	868	856	866	872	887	903	895	916	885	
14 D	916	921	905	1013	934	911	919	778	544	872	873	601	769	892	887	895	876	830	872	875	882	887	895	903	860	
15	893	885	898	891	887	895	889	890	845	613	707	762	769	892	887	895	876	870	872	875	881	887	895	903	857	
16	896	877	893	901	900	896	849	799	755	822	888	891	849	790	802	877	876	860	859	864	870	881	888	896	862	
17	906	919	908	895	899	903	884	880	880	876	895	895	895	892	883	883	876	861	860	859	858	880	880	895	886	
18	908	890	882	887	883	887	895	871	785	758	611	840	911	900	887	880	856	844	833	835	867	883	890	892	857	
19 Q	895	903	891	891	891	892	902	749	802	873	903	895	892	887	887	892	869	867	837	844	859	863	880	898	873	
20 D	906	900	898	916	924	903	772	795	752	684	679	704	562	597	718	649	642	828	796	876	892	945	895	938	799	
21 D	905	889	907	887	938	854	843	816	648	592	710	602	765	741	879	852	866	852	871	826	867	876	876	872	822	
22	883	881	891	890	892	890	891	898	873	859	887	806	840	845	897	874	872	872	866	874	883	890	890	895	877	
23 Q	889	889	889	888	888	883	889	886	843	843	849	874	851	884	884	882	874	871	868	868	882	889	890	887	877	
24	872	883	872	891	882	886	891	886	872	872	852	872	899	906	897	872	875	867	871	879	886	888	886	851	880	
25	902	889	876	884	918	965	867	734	798	828	843	844	786	882	871	851	843	853	875	867	849	872	887	896	862	
26	891	892	891	880	883	874	872	847	832	899	891	858	886	881	886	875	874	867	863	871	879	886	887	886	877	
27	891	886	880	875	889	880	888	890	889	894	883	893	898	881	872	871	857	835	835	857	871	858	889	910	878	
28	882	922	906	899	899	910	573	761	672	735	856	845	867	876	875	890	889	871	866	868	876	881	889	875	849	
29 D	890	898	870	875	901	885	871	867	780	752	705	802	827	838	838	889	864	857	858	832	855	872	874	874	849	
30	870	877	885	884	893	917	776	753	704	626	635	861	898	896	897	892	889	870	870	842	850	874	908	890	844	
31																										
Mean	898	892	893	899	898	895	852	835	813	820	804	812	836	860	867	860	854	854	857	861	874	886	891	901	863	

**DECLINATION**  
Mean values for periods of sixty minutes; Universal Time

Table 34 Meanook

D = 24° E + . . .'

September 1954

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	25.9	27.8	28.6	28.7	40.6	32.8	31.4	30.6	28.9	27.8	18.1	29.0	35.3	37.3	35.4	34.8	34.7	26.4	25.0	28.0	24.0	24.5	22.5	24.4	29.3	
2	41.9	24.6	28.0	61.4	37.7	30.0	27.4	30.9	24.5	25.9	17.1	27.9	33.3	36.8	37.3	37.2	34.7	29.9	23.9	23.5	25.0	24.9	25.0	28.4	30.7	
3	27.9	27.9	29.0	28.4	28.6	35.6	29.4	31.9	30.4	29.9	48.3	13.6	30.8	40.2	40.2	33.7	21.5	30.4	26.9	29.7	19.4	18.6	23.2	25.0	28.8	
4	31.7	26.4	28.4	30.5	41.6	37.6	29.0	23.9	27.4	28.1	29.4	25.9	26.8	28.4	40.5	34.8	27.9	30.4	29.4	26.4	24.5	25.4	27.0	28.9	29.6	
5	26.9	29.4	30.9	34.8	39.8	31.8	28.6	28.5	24.0	27.0	16.2	27.9	42.7	40.7	35.8	34.9	32.8	30.9	27.9	26.4	26.0	27.4	28.4	28.0	29.9	
6	29.0	29.8	29.9	31.4	29.4	31.1	31.3	30.4	30.4	30.3	30.4	31.8	33.3	34.8	36.3	28.1	17.2	19.2	21.5	25.0	24.9	24.9	22.9	25.0	28.3	
7	27.9	26.9	29.4	33.3	51.5	30.9	29.0	32.9	28.8	25.0	32.8	32.7	31.6	32.8	34.7	35.6	32.7	26.9	23.0	23.9	25.0	26.5	26.4	29.0	30.4	
8 Q	31.5	30.4	35.9	28.9	28.0	26.5	26.8	27.9	28.4	29.0	31.4	30.4	28.9	33.3	34.8	32.3	31.8	26.9	20.9	23.5	25.9	26.8	28.4	28.9	29.1	
9	29.9	29.9	29.0	44.1	48.7	27.4	21.5	30.8	32.3	27.0	29.4	32.8	31.8	35.3	28.9	23.5	28.1	22.5	22.2	20.6	22.1	25.1	27.7	28.4	29.1	
10	29.4	29.4	28.4	30.4	29.0	29.4	31.0	27.5	30.4	30.0	22.5	32.3	35.6	35.9	36.2	30.4	30.9	26.4	22.1	23.6	23.1	25.4	27.9	30.0	29.0	
11	31.0	29.9	28.4	32.9	32.8	27.0	31.7	08.2	33.3	29.4	29.0	22.0	18.1	35.8	41.7	41.7	35.3	28.4	23.5	19.5	20.1	25.0	27.3	28.5	28.4	
12 Q	29.0	29.9	29.8	28.9	28.4	28.8	28.9	28.4	26.9	31.7	24.5	36.8	41.6	35.3	37.7	37.2	34.3	31.4	28.8	27.0	25.6	25.4	26.8	29.6	30.6	
13 Q	28.9	28.0	28.4	28.4	28.4	28.9	31.4	24.9	32.7	30.8	30.9	29.9	31.4	35.3	35.8	35.3	34.9	31.9	30.4	27.9	26.8	26.9	25.0	20.0	29.7	
14 D	24.1	23.5	27.0	31.7	36.8	43.2	27.4	22.7	00.3	31.4	36.8	35.8	62.3	55.8	35.3	33.3	36.3	34.3	27.3	25.8	25.4	25.8	27.9	27.9	31.6	
15	25.4	26.8	28.9	30.8	28.9	28.4	28.4	28.0	33.9	29.8	39.6	50.0	47.1	42.9	39.8	37.7	32.8	32.3	28.8	27.9	26.4	26.9	27.6	26.8	32.3	
16	28.0	36.8	29.4	42.6	45.1	33.5	34.8	30.7	32.9	27.9	31.7	34.8	26.9	31.7	27.7	36.3	37.3	34.8	28.4	25.9	24.7	25.8	26.4	27.9	31.8	
17	28.4	38.0	28.0	30.9	32.7	31.0	30.4	28.4	30.4	25.4	30.8	31.8	32.2	33.8	34.9	36.0	35.5	34.7	33.1	28.4	24.8	20.9	22.1	25.1	30.3	
18	27.4	32.3	31.4	30.4	32.7	27.5	29.8	25.8	35.8	34.7	32.8	35.3	38.1	37.8	38.1	36.2	35.8	30.2	26.9	19.6	19.8	22.0	25.0	28.4	30.6	
19 Q	29.0	29.4	28.4	28.4	29.4	32.3	26.9	20.8	25.9	31.8	31.8	33.1	32.8	32.9	33.3	34.4	33.3	30.3	25.0	22.2	22.0	21.3	23.1	26.0	28.5	
20 D	27.8	27.7	28.8	40.8	36.3	29.9	26.4	25.3	23.1	31.4	32.7	29.9	26.9	35.8	28.0	25.0	16.6	21.1	21.2	25.0	26.8	29.9	26.4	30.3	28.0	
21 D	33.8	31.0	29.8	41.7	38.8	32.3	31.8	19.5	14.6	25.0	38.7	54.6	33.8	29.4	32.8	28.9	28.9	25.4	27.4	22.0	22.9	24.5	26.4	28.0	30.1	
22	29.9	30.0	27.9	28.4	29.8	28.4	28.9	25.4	20.1	28.8	30.7	25.8	30.1	30.8	35.3	31.8	30.9	30.4	26.9	25.7	25.9	25.4	26.4	27.8	28.4	
23 Q	28.0	29.0	29.0	28.9	28.9	28.8	32.0	26.9	21.9	38.2	35.8	23.5	31.2	34.8	34.7	33.8	32.7	31.4	27.8	25.5	24.1	26.0	27.0	28.4	29.5	
24	29.0	31.0	31.9	29.0	32.9	38.3	34.8	30.0	31.0	27.4	42.7	36.8	35.3	34.9	35.8	37.7	34.8	34.8	30.0	26.9	25.4	25.0	24.5	28.0	32.0	
25	26.9	26.9	33.3	29.9	33.9	26.4	22.1	20.0	34.8	29.9	25.8	31.9	28.4	30.9	32.9	32.9	29.9	26.3	26.9	27.4	23.0	24.1	24.9	26.8	28.2	
26	28.0	29.8	33.3	30.4	29.9	38.1	30.2	21.9	26.8	32.4	31.3	32.3	30.5	34.8	35.7	34.8	34.9	33.3	30.6	27.8	27.8	27.9	27.9	28.8	30.8	
27	28.9	29.9	29.8	32.2	30.9	29.8	28.9	28.4	29.0	30.4	28.4	33.0	32.8	32.8	33.8	31.8	30.3	25.0	23.0	24.0	24.0	19.2	23.0	22.0	28.4	
28	20.8	26.9	39.7	27.4	29.4	32.0	27.9	25.9	41.7	25.4	35.3	35.8	29.9	32.8	35.3	33.3	34.8	33.3	32.9	28.8	25.9	25.4	24.9	25.9	30.5	
29 D	26.2	25.9	32.6	30.9	50.5	32.0	29.9	30.4	32.8	19.1	24.7	36.8	38.7	34.3	31.8	34.8	35.3	34.9	31.4	31.4	29.9	26.9	22.0	20.5	31.0	
30	25.0	29.4	29.9	29.9	33.8	45.5	27.9	38.7	37.6	33.3	23.5	26.9	31.7	28.4	34.8	37.0	37.6	35.3	30.4	28.4	23.5	22.0	21.5	23.4	30.6	
31																										
Mean	28.6	29.2	30.1	32.9	34.8	31.8	28.9	26.8	28.4	29.2	30.4	32.0	33.7	35.3	35.2	33.8	31.8	29.7	26.8	27.5	24.5	24.9	25.5	26.9	29.9	

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

Table 35 Meanook

Z = 58,000  $\gamma$  +

September 1954

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	840	842	848	843	840	823	818	775	783	760	708	793	798	735	688	712	775	812	818	840	869	900	908	962	812	
2	929	867	908	901	876	829	534	762	767	760	634	767	834	834	834	825	825	829	826	828	831	851	873	871	816	
3	859	840	834	834	830	825	775	697	700	617	617	695	717	786	772	772	773	798	818	820	850	850	862	893	785	
4	884	851	851	854	818	830	818	796	829	826	830	726	706	720	775	791	775	816	823	826	836	840	845	857	813	
5	851	874	873	849	796	806	572	695	705	785	616	717	737	818	818	838	829	825	834	835	838	839	838	840	793	
6	846	840	840	836	839	812	772	819	839	831	829	829	833	829	818	774	717	751	786	845	912	873	857	871	825	
7	863	897	890	894	800	844	833	795	651	756	829	818	818	834	840	830	830	829	840	840	851	859	841	851	831	
8 Q	860	857	853	840	838	830	830	831	829	829	829	826	809	829	820	812	818	810	808	813	826	835	825	826	828	
9	828	828	830	858	806	840	763	696	791	801	818	831	824	795	717	712	765	795	822	834	845	851	859	853	807	
10	851	852	859	869	834	841	751	757	746	724	740	829	840	834	818	806	812	816	818	829	831	835	840	846	816	
11	826	849	849	853	874	868	791	619	784	839	829	667	583	695	762	804	820	830	830	831	839	851	853	849	800	
12 Q	840	838	838	838	838	838	804	823	820	818	717	746	789	850	842	830	830	830	818	820	828	828	828	828	820	
13 Q	828	829	824	824	824	824	829	823	829	820	818	820	809	829	829	829	829	829	830	829	829	838	850	868	829	
14 D	907	931	897	909	829	862	882	790	684	766	795	722	516	600	700	773	829	851	832	840	849	857	881	870	807	
15	842	840	843	870	850	840	829	829	731	523	576	628	661	765	773	818	826	826	826	825	831	831	840	846	786	
16	868	913	868	896	851	851	768	762	661	683	804	829	808	751	775	806	818	816	831	838	838	851	857	860	817	
17	896	924	884	893	896	886	846	826	815	793	818	831	831	831	831	829	829	829	826	834	840	849	849	851	847	
18	907	892	858	850	845	845	838	748	712	789	683	728	829	834	828	829	828	825	831	829	840	839	850	849	821	
19 Q	839	846	848	843	851	868	816	687	634	789	829	838	831	829	829	845	834	830	831	840	849	842	840	840	822	
20 D	845	849	863	896	858	851	726	630	678	750	695	706	684	639	736	705	677	800	826	898	918	917	884	907	789	
21 D	884	853	873	897	784	661	762	760	650	604	595	571	790	775	809	806	838	830	862	851	849	845	851	851	785	
22	860	850	849	849	850	845	842	798	760	787	826	751	785	767	809	826	826	829	829	834	842	843	836	838	822	
23 Q	851	842	851	839	840	840	831	806	708	708	792	748	777	818	834	826	826	830	840	840	840	840	840	840	817	
24	835	838	840	840	840	828	815	818	822	784	764	818	818	824	824	824	823	829	824	829	840	851	862	862	827	
25	857	851	857	864	892	896	795	795	764	745	798	792	737	803	800	814	825	826	833	836	840	829	838	849	822	
26	862	848	849	849	857	838	836	760	693	814	834	814	818	806	829	835	835	835	840	840	842	840	840	840	827	
27	840	840	846	843	842	836	834	829	816	818	806	818	828	826	823	812	812	812	816	836	851	838	838	857	830	
28	880	926	915	876	876	816	622	628	558	661	745	746	790	791	812	836	833	833	833	835	835	840	849	849	799	
29 D	845	862	871	873	850	834	828	784	775	657	608	630	751	795	777	830	829	850	846	849	887	948	929	866	816	
30	842	842	851	851	882	838	745	795	706	659	656	767	836	849	849	849	848	848	851	849	850	846	868	873	819	
31																										
Mean	859	860	859	861	844	835	784	764	741	750	748	760	773	790	799	807	811	822	828	836	848	852	854	859	814	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36 Meanook

September 1954

Day	Horizontal Intensity						Declination						Vertical Intensity									
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +			Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +			Range			
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1 D	23	59	<u>1225</u>	14	00	559	666	13	55	55.6	09	45	10.2	45.4	23	52	<u>1074</u>	14	10	617	457	
2	00	00	<u>1224</u>	10	37	497	727	03	30	86.9	07	00	-26.2	113.1	03	08	<u>1006</u>	06	35	461	545	
3	23	52	961	11	30	<u>202</u>	759	11	25	68.7	11	42	05.3	63.4	11	30	1016	11	50	482	534	
4	05	56	974	11	45	<u>535</u>	439	04	11	59.9	12	53	13.6	46.3	00	00	940	11	41	642	298	
5	09	05	934	06	22	477	457	04	15	60.5	06	15	-20.8	81.3	02	53	891	06	18	493	398	
6	23	10	1004	16	12	723	281	14	25	39.2	17	55	12.7	26.5	20	32	935	16	15	688	247	
7	03	55	1154	08	26	590	564	04	10	68.2	08	48	09.7	58.5	01	28	929	07	45	519	410	
8 Q	02	05	912	17	57	818	94	02	10	42.2	19	47	18.6	23.6	02	13	884	12	50	798	<u>86</u>	
9	04	08	926	06	24	595	331	04	06	74.0	06	24	-00.1	74.1	04	04	881	06	25	661	220	
10	03	35	1064	06	33	737	327	04	33	46.1	04	45	15.8	30.3	04	05	927	06	30	614	313	
11	05	05	932	12	15	471	461	14	46	45.4	07	31	-11.1	56.5	04	47	893	07	25	486	407	
12 Q	13	33	929	10	30	761	168	12	25	44.5	10	13	15.6	28.9	13	37	873	10	30	680	193	
13 Q	23	45	958	07	26	848	110	14	43	37.3	07	26	16.6	<u>20.7</u>	23	59	882	08	32	792	90	
14 D	04	02	1179	12	30	359	<u>820</u>	13	05	<u>97.3</u>	08	35	-40.5	<u>137.8</u>	01	00	962	12	25	438	524	
15	23	47	922	09	25	486	436	12	11	74.2	10	41	11.1	63.1	03	35	884	09	20	427	457	
16	03	20	965	08	04	699	266	04	09	61.4	14	21	20.1	41.3	01	22	950	09	55	594	356	
17	00	36	937	20	20	851	<u>86</u>	01	09	46.3	21	35	19.2	27.1	00	58	946	09	42	765	181	
18	00	55	925	10	05	410	515	10	02	47.8	19	28	18.5	29.3	01	03	960	10	20	609	351	
19 Q	06	28	944	06	28	663	281	16	27	39.4	07	26	10.3	29.1	05	36	884	06	21	619	265	
20 D	23	41	1012	14	17	425	587	12	48	54.4	16	00	-04.6	59.0	23	40	949	07	21	524	425	
21 D	04	17	1126	09	10	401	725	04	40	68.4	09	00	00.8	67.6	02	47	982	08	55	501	481	
22	07	40	950	12	48	770	180	07	38	37.4	09	40	13.0	24.4	00	06	938	07	55	697	241	
23 Q	07	20	918	11	45	698	220	09	30	47.9	11	33	14.1	33.8	00	15	853	09	14	639	214	
24	21	15	918	23	10	824	94	09	40	45.1	09	31	22.5	22.6	22	50	875	09	27	740	135	
25	05	25	1028	07	06	573	455	08	38	41.2	06	57	-03.1	44.3	04	33	911	09	00	605	306	
26	00	02	957	08	10	675	282	05	42	41.8	07	40	11.2	30.6	00	03	883	08	10	550	333	
27	23	36	920	18	05	811	109	14	22	35.8	21	26	17.1	18.7	23	42	867	08	56	772	95	
28	01	52	1012	06	55	330	682	08	31	69.2	06	25	-33.1	102.3	01	52	1014	09	00	<u>416</u>	<u>598</u>	
29 D	04	13	928	08	52	576	352	04	19	69.1	09	20	06.8	62.3	21	13	1006	10	50	574	432	
30	05	07	1030	10	15	504	526	05	27	56.4	10	40	11.7	44.7	04	32	903	10	18	570	333	
31																						
Mean			996			596	400			55.4			05.2	50.2			930			599	331	
No. days			30			30	30			30			30	30			30			30	30	

MEANOOK MAGNETIC OBSERVATORY 1953 1954

98693-8



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

Table 37 Meanook

H = 12,000  $\gamma$  +

October 1954

Day	Hour U. T.	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	879	914	1012	954	892	851	832	565	363	313	606	817	845	879	884	876	851	832	823	879	865	879	897	879	808	
2		890	890	889	889	874	903	889	893	888	871	886	899	888	886	889	882	879	873	859	860	864	889	873	888	883	
3	D	904	923	901	920	949	888	755	567	767	877	894	895	896	885	849	762	830	837	865	869	878	870	912	1081	866	
4		1090	1088	959	866	893	824	831	840	865	870	807	806	882	901	890	856	855	865	860	855	851	876	886	879	883	
5		884	885	891	887	888	887	887	884	876	864	888	888	884	888	884	873	869	863	860	863	886	873	873	880	879	
6		886	883	883	889	932	938	905	807	777	654	732	834	826	690	823	790	827	854	893	878	879	861	888	897	843	
7		890	888	888	879	890	893	884	883	874	874	879	780	777	888	878	867	873	849	860	867	870	885	883	872	870	
8		876	886	891	876	895	887	867	886	875	872	876	865	773	741	836	875	886	880	872	872	865	873	873	882	866	
9	Q	869	889	882	891	891	897	881	874	883	889	881	891	889	889	873	872	865	874	868	868	875	879	882	880	880	
10	Q	882	890	889	866	875	881	878	874	875	886	889	893	898	894	895	886	879	871	862	860	871	875	883	883	881	
11		872	886	884	886	889	889	879	875	863	880	886	871	871	891	891	886	879	872	858	860	867	879	886	890	879	
12	Q	892	884	881	894	892	892	881	892	889	889	884	896	898	898	898	886	980	871	860	863	855	880	876	891	888	
13	Q	896	895	892	895	893	892	891	891	884	885	898	901	902	900	895	890	882	873	862	863	880	887	887	891	889	
14		891	891	896	894	894	889	890	886	881	882	876	879	879	883	891	889	879	863	856	863	860	858	864	873	879	
15	Q	887	890	890	893	890	890	890	890	879	801	894	887	887	906	903	895	885	871	863	868	875	886	893	895	884	
16		890	893	899	899	899	896	891	880	871	904	904	907	907	906	879	833	866	871	854	858	868	877	876	883	884	
17		884	884	884	885	889	884	884	889	887	884	873	889	863	889	900	892	887	884	870	865	865	864	865	902	882	
18	D	912	920	978	1080	939	947	904	689	552	819	614	411	811	819	646	790	783	858	877	871	872	877	900	880	823	
19		881	887	895	869	892	892	865	889	736	767	798	355	735	847	873	853	872	872	862	872	878	894	889	887	836	
20		885	885	879	896	886	885	873	711	702	669	645	596	730	826	889	883	864	862	857	860	868	879	892	887	825	
21		888	881	882	888	888	889	890	873	867	864	807	859	871	887	883	889	876	872	864	874	864	881	885	889	875	
22		888	888	888	887	887	874	870	849	835	800	823	912	901	897	898	888	857	806	827	825	863	859	872	921	867	
23	D	963	921	904	913	910	893	881	881	838	717	717	780	644	866	888	835	858	850	789	815	823	896	1008	1061	860	
24	D	1158	1153	1080	1027	971	800	469	469	582	626	399	524	572	681	849	838	779	741	826	862	855	872	894	894	788	
25		905	964	1047	1152	1002	356	645	722	501	733	485	643	587	881	881	882	878	870	870	873	881	885	886	891	809	
26		882	872	885	879	871	886	889	864	810	893	895	898	890	886	885	862	848	846	838	852	864	871	887	875	872	
27		880	873	889	865	880	904	890	889	864	561	641	848	910	894	855	799	862	869	849	863	872	870	876	881	849	
28		873	880	880	873	879	880	882	872	879	861	862	886	889	883	886	879	874	865	858	859	871	872	880	888	875	
29		890	891	893	894	884	894	889	891	886	886	886	863	898	884	890	872	879	861	863	868	869	883	882	871	882	
30		880	882	943	955	957	861	851	860	871	883	888	883	879	833	835	882	883	871	860	857	864	863	867	875	878	
31		879	880	879	872	883	886	871	886	876	796	821	884	871	778	808	816	832	832	855	855	847	867	884	893	856	
Mean		904	908	911	910	902	869	854	826	806	805	801	811	837	861	869	861	865	857	856	862	867	876	887	898	863	



**DECLINATION**  
Mean values for periods of sixty minutes, Universal Time

Table 38 Meanook

D = 24° E + . . .'

October 1954

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	25.5	21.8	29.4	45.6	56.4	38.6	24.0	34.3	17.1	28.4	41.6	31.1	30.9	28.8	33.3	33.8	30.4	22.1	15.1	24.4	26.5	27.4	28.0	27.0	30.5
2	29.0	37.7	42.7	30.0	30.9	35.0	30.3	28.8	28.5	28.9	29.4	29.9	30.0	31.8	33.3	34.8	35.4	34.8	31.7	28.9	25.0	24.5	24.0	23.1	30.8
3 D	25.9	29.9	40.7	28.8	35.3	34.3	40.2	31.7	31.6	31.9	31.9	30.9	30.9	30.9	29.9	24.9	25.0	26.1	22.9	26.3	25.9	27.9	27.8	27.0	29.9
4	31.8	43.7	34.9	28.8	32.8	26.6	31.8	36.3	29.4	31.7	28.4	20.1	37.6	36.3	36.3	31.5	30.4	32.3	30.0	28.9	25.4	26.9	28.0	29.4	31.2
5	30.6	29.9	30.0	36.3	32.1	28.4	29.0	28.9	27.8	29.9	29.0	31.8	31.9	31.8	33.8	34.8	34.7	33.3	27.9	27.0	25.9	25.1	25.9	27.0	30.1
6	27.9	28.3	28.8	27.9	28.9	38.7	28.9	26.8	33.8	24.0	35.8	42.8	42.6	34.9	27.9	26.8	21.9	27.9	31.0	27.0	26.4	26.4	27.8	28.8	30.1
7	27.8	28.4	28.8	33.3	30.4	29.4	28.9	28.0	27.4	28.2	29.9	21.0	32.7	35.9	34.8	32.8	29.9	23.5	22.9	23.5	25.0	25.4	24.0	25.9	28.2
8	27.4	33.9	27.8	28.8	36.8	29.0	32.3	26.8	31.4	30.4	29.4	28.4	25.8	18.1	26.9	28.4	33.8	29.9	28.9	26.9	24.9	24.5	25.6	26.9	28.5
9 Q	28.4	27.0	28.4	28.4	27.8	40.7	32.8	32.8	30.4	30.4	29.8	30.0	29.9	30.8	31.9	33.8	34.9	34.3	32.5	29.4	26.8	26.8	27.0	28.4	30.6
10 Q	29.8	28.7	28.6	40.6	32.3	29.9	31.3	33.8	31.4	29.4	30.7	31.0	30.4	31.0	32.0	33.7	33.9	32.9	29.4	27.8	25.9	25.9	25.9	26.9	30.6
11	28.6	28.4	27.9	29.1	28.5	30.9	44.7	31.9	34.9	33.9	29.6	27.7	25.2	30.4	32.3	34.2	33.9	32.6	31.1	29.0	26.6	25.9	26.4	27.0	30.4
12 Q	28.4	28.9	28.9	29.1	23.1	28.9	29.7	29.7	30.2	29.9	29.9	29.9	30.2	31.6	32.7	35.3	35.4	34.9	33.1	29.5	26.9	25.4	25.9	26.9	30.0
13 Q	27.8	28.8	29.0	29.0	29.0	29.0	28.9	29.0	31.3	32.7	32.3	31.4	31.3	30.6	31.0	33.3	34.2	32.9	30.0	26.0	23.1	23.2	25.4	25.7	29.4
14	26.5	28.0	28.3	28.6	28.9	30.0	30.1	29.0	29.8	29.4	30.9	31.4	33.9	33.0	34.3	34.9	34.3	31.6	24.7	20.9	23.7	21.7	24.1	26.4	28.9
15 Q	27.4	28.4	30.4	30.7	29.0	29.9	30.9	30.8	31.8	24.0	32.8	28.7	27.9	31.0	32.9	34.7	34.8	33.9	29.6	26.4	24.5	25.3	26.1	26.9	29.5
16	27.8	28.3	28.9	29.0	29.0	29.0	29.4	28.2	32.6	32.5	29.9	30.0	30.3	31.7	31.9	19.8	25.8	30.7	27.4	24.0	22.8	22.7	23.5	26.9	28.0
17	27.4	28.4	27.8	31.6	34.7	30.3	30.4	27.2	30.7	31.4	29.3	29.3	26.0	27.4	31.7	34.1	33.3	31.9	28.9	26.6	24.0	23.5	22.9	22.9	28.8
18 D	24.1	30.4	21.0	27.8	31.9	30.6	34.5	23.0	31.4	31.6	34.1	-8.0	31.4	27.4	18.9	18.1	25.1	21.8	28.6	28.1	27.9	27.8	28.9	28.9	26.5
19	28.4	28.5	29.0	36.9	33.9	31.2	22.1	28.4	19.2	27.4	29.4	17.2	17.1	25.9	27.8	23.0	29.8	27.6	27.0	25.1	23.1	24.0	26.2	27.1	26.5
20	28.3	27.0	36.9	30.0	29.2	29.0	36.8	48.6	38.8	46.3	49.8	48.6	30.4	27.5	33.3	33.5	30.6	27.4	24.6	23.2	23.1	24.7	28.9	28.4	32.7
21	26.9	27.9	28.9	29.7	29.4	29.0	32.0	27.1	28.8	31.7	24.2	34.9	30.9	31.9	35.3	33.8	31.8	30.9	27.3	25.8	27.9	29.4	30.4	30.4	29.8
22	29.6	29.2	29.0	30.4	29.4	37.3	35.3	35.8	36.0	28.2	35.3	32.3	30.6	30.9	31.8	34.7	35.6	25.4	18.6	09.7	09.1	22.0	23.0	20.3	28.8
23 D	15.2	19.5	20.9	29.7	31.0	29.9	31.0	29.0	34.7	61.9	50.2	42.2	38.2	40.8	40.2	31.9	26.0	27.4	23.2	21.0	22.0	26.4	27.0	28.0	31.1
24 D	24.5	25.1	24.5	28.0	30.7	37.8	15.5	60.9	42.9	33.9	50.2	51.2	41.8	56.7	36.0	37.2	30.4	13.3	09.2	14.5	19.2	24.5	28.5	27.0	31.4
25	26.5	26.9	38.2	21.0	31.7	11.7	13.2	33.0	36.8	29.8	34.3	28.8	40.9	31.5	32.7	30.9	31.7	31.7	27.0	26.9	26.4	27.4	28.8	29.8	29.1
26	29.9	31.3	32.9	31.2	29.8	29.7	35.9	37.2	35.0	29.5	30.2	29.6	32.8	32.8	34.8	32.9	26.4	23.0	19.8	18.6	22.3	26.1	27.0	29.4	29.6
27	29.7	30.9	30.9	32.8	34.5	32.8	26.8	27.0	27.9	44.2	36.5	35.9	36.2	36.9	25.9	23.0	30.2	30.2	24.5	25.0	25.1	25.5	27.9	28.9	30.4
28	29.2	29.1	32.0	31.4	34.3	33.8	28.4	27.0	28.4	26.3	26.1	28.6	29.0	29.9	31.0	33.8	34.4	33.9	28.9	27.0	25.0	25.5	27.4	28.6	29.6
29	28.8	29.6	29.9	29.9	29.0	28.9	29.0	28.8	28.0	28.4	29.4	24.1	30.0	31.0	32.4	34.3	34.8	32.9	29.9	26.6	24.7	26.4	26.7	25.1	29.1
30	22.0	23.1	25.1	46.1	34.2	36.9	32.0	27.8	28.6	28.0	27.4	29.9	29.0	27.0	24.0	27.9	33.8	31.8	27.0	26.6	25.4	23.0	22.1	25.4	28.6
31	25.9	27.0	28.9	29.9	29.6	36.2	39.2	32.0	28.8	27.9	23.7	30.0	33.1	23.7	15.6	21.0	20.5	22.7	18.1	19.2	22.1	23.9	23.5	25.4	26.2
Mean	27.3	28.8	30.0	31.3	31.9	31.4	30.5	31.9	30.8	31.7	33.0	30.0	31.6	31.6	31.2	30.9	31.1	28.9	26.2	24.8	24.6	25.9	26.3	26.9	29.5

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

Table 39 Meanook

$z = 58,000 \gamma +$

October 1954

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	873	915	925	887	580	717	813	617	522	611	706	831	829	857	860	845	833	862	831	849	841	860	862	845	799	
2	851	873	864	863	802	853	857	843	842	842	842	842	842	843	843	843	843	843	840	840	842	860	862	873	848	
3 D	902	959	954	951	940	806	712	657	717	818	849	853	853	845	818	777	812	824	838	849	864	882	940	971	850	
4	938	927	960	884	851	728	798	792	735	843	818	780	829	857	849	844	839	845	849	853	853	862	871	864	845	
5	861	862	862	853	828	849	849	839	820	811	822	840	842	846	844	840	840	840	840	840	840	851	862	845	843	
6	846	839	842	849	886	858	871	810	648	582	622	720	748	706	717	734	799	818	851	836	848	851	849	851	791	
7	850	850	848	851	849	849	838	842	831	813	824	720	670	784	818	824	831	829	829	838	836	845	843	845	823	
8	858	862	851	851	837	826	831	784	815	839	840	818	719	673	719	767	818	818	818	828	735	833	840	853	810	
9 Q	851	850	853	858	873	820	818	815	814	829	838	838	838	838	838	838	836	836	829	832	839	829	833	832	836	
10 Q	838	838	838	849	848	841	831	820	825	818	829	829	830	830	834	834	834	833	840	840	840	840	840	840	835	
11	840	841	850	868	862	862	820	831	884	809	820	802	772	806	729	834	834	834	839	836	836	836	836	836	830	
12 Q	836	836	836	836	836	836	832	832	832	831	829	829	829	829	829	829	828	829	828	820	828	829	833	832	831	
13 Q	829	829	829	831	831	831	831	829	815	806	818	826	826	829	829	829	829	829	829	829	829	831	829	829	827	
14	829	829	829	829	831	831	829	829	829	818	782	798	793	786	793	816	816	818	829	831	831	848	838	840	821	
15 Q	840	841	841	840	840	851	841	851	818	719	764	798	786	826	842	840	840	835	838	838	838	838	845	845	827	
16	840	840	840	840	840	840	840	840	801	840	845	840	838	838	829	801	895	824	836	834	842	841	838	849	838	
17	845	845	858	861	864	862	840	795	795	818	806	822	820	823	840	836	836	836	840	838	839	840	846	873	837	
18 D	901	916	961	1007	979	849	838	840	740	782	773	530	695	706	695	767	829	873	840	842	851	862	863	851	825	
19	851	851	858	870	860	829	798	820	684	730	738	673	708	751	762	784	816	824	841	839	834	840	840	845	802	
20	851	869	883	868	851	840	841	639	628	595	518	510	630	751	801	842	829	820	829	834	839	842	858	857	776	
21	849	857	844	841	838	838	834	773	800	785	717	751	801	825	829	830	828	828	820	826	826	830	831	832	818	
22	830	830	839	839	842	842	813	762	762	704	715	820	836	831	841	840	840	802	813	815	843	844	887	910	821	
23 D	935	916	904	927	904	907	863	840	796	728	717	775	777	829	835	820	823	845	842	891	912	896	929	918	855	
24 D	907	907	962	934	869	729	550	630	791	678	784	818	494	511	715	762	790	818	829	839	862	862	849	871	782	
25	884	838	890	890	838	641	860	795	697	728	706	684	805	842	849	873	849	849	851	851	851	857	851	851	818	
26	842	849	851	851	840	851	816	764	668	801	840	849	836	829	840	834	824	820	818	829	838	845	850	848	826	
27	844	835	834	840	836	809	829	831	799	524	656	773	839	823	801	753	795	815	824	834	836	842	842	842	802	
28	841	841	849	849	851	833	836	820	812	806	806	823	829	831	840	840	842	840	834	838	839	840	840	840	834	
29	840	839	838	834	831	831	834	829	829	829	820	783	823	829	829	829	829	828	829	831	840	840	836	840	830	
30	857	882	931	870	929	770	806	811	773	809	829	829	831	795	791	813	839	834	826	831	845	860	851	851	836	
31	840	840	840	834	831	851	826	829	829	731	715	795	803	747	740	742	762	782	795	821	839	873	862	858	808	
Mean	858	861	870	866	848	822	819	794	773	764	774	781	786	797	806	815	828	830	832	837	840	849	853	856	823	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40 Meanook

October 1954

Day	Horizontal Intensity						Declination						Vertical Intensity						
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum			
	12,000 $\gamma$ +			12,000 $\gamma$ +			24° E +			24° E +			58,000 $\gamma$ +			58,000 $\gamma$ +			
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	
1 D	04	25	1172	09	20	229	04	32	97.8	06	30	-59.2	03	08	977	08	51	349	628
2	04	25	928	04	36	799	02	02	51.5	04	30	11.1	23	52	888	03	33	661	227
3 D	23	53	1050	07	10	403	07	42	77.1	07	10	-25.7	01	27	1017	07	03	471	546
4	01	30	1243	05	23	752	01	42	69.2	05	16	09.2	00	10	999	05	25	641	358
5	03	55	926	09	27	843	03	46	51.3	08	40	20.1	03	46	873	08	52	790	83
6	03	57	999	13	13	408	13	15	65.8	08	55	11.1	04	47	906	08	49	463	443
7	15	36	911	11	50	682	12	48	44.5	12	03	19.1	05	30	862	12	18	630	232
8	04	38	921	12	55	592	04	25	48.5	13	27	12.4	00	15	873	12	57	563	310
9 Q	05	25	925	07	07	859	05	11	55.5	05	28	24.5	04	48	882	06	05	772	110
10 Q	14	17	905	03	26	850	03	40	48.8	20	52	25.3	03	20	858	07	02	806	52
11	12	48	900	08	57	852	05	05	53.0	12	05	20.5	05	28	884	12	25	751	133
12 Q	11	27	901	19	00	852	16	00	36.2	21	30	24.0	22	00	836	17	30	824	12
13 Q	11	46	905	18	50	856	16	30	34.8	20	37	22.5	21	45	839	09	18	824	15
14	02	15	901	22	00	849	14	55	36.0	10	04	20.3	23	20	849	10	23	741	108
15 Q	12	40	911	09	31	731	06	10	37.4	09	25	08.4	05	50	864	09	30	638	226
16	09	16	913	15	10	821	09	16	35.8	15	50	14.0	07	12	854	15	57	772	82
17	23	28	920	21	39	851	04	15	37.5	23	42	20.5	23	50	889	07	57	758	131
18 D	03	35	1137	11	00	254	10	42	68.7	11	18	-27.1	03	33	1043	11	40	441	602
19	05	45	931	11	40	318	03	53	45.0	12	05	-11.9	03	05	886	11	18	587	299
20	15	23	906	11	10	422	11	05	69.3	13	02	13.9	02	25	920	11	00	404	516
21	07	00	934	10	02	732	06	50	38.4	10	23	12.2	01	35	861	10	23	640	221
22	23	55	964	10	00	747	06	00	50.6	19	27	06.3	23	55	951	10	00	645	306
23 D	23	15	1106	10	07	452	09	50	109.9	01	06	11.1	20	07	996	10	00	458	538
24 D	01	00	1249	06	40	250	11	35	93.7	17	15	-04.9	11	15	1107	07	18	358	749
25	03	00	1229	06	37	070	08	48	62.8	06	00	-69.0	06	10	1074	05	48	372	702
26	11	12	911	09	12	744	06	55	45.1	19	10	16.1	21	17	863	08	22	602	261
27	12	18	933	09	30	330	09	18	64.8	10	14	06.6	12	35	852	09	40	334	518
28	00	23	901	19	50	850	05	16	43.0	21	12	24.3	03	12	860	09	57	792	68
29	12	15	907	11	05	841	16	02	35.3	11	20	20.5	23	40	849	11	28	771	78
30	02	50	1052	05	51	778	03	18	63.3	03	58	13.1	04	13	966	05	45	594	372
31	22	21	957	09	55	679	06	10	53.0	14	26	12.2	22	23	906	09	49	630	276
Mean			982			635			55.6			06.5			913			616	297
No. days			31			31			31			31			31			31	31

MEANOOK MAGNETIC OBSERVATORY 1953-1954

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

Table 41 Meanook

H = 12,000  $\gamma$  +

November 1954

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	884	886	889	891	893	919	922	879	863	802	775	863	845	849	828	738	863	866	851	808	832	871	891	899	859	
2 D	918	853	925	922	818	871	907	873	876	782	812	879	745	683	764	884	888	871	853	848	880	875	874	886	866	
3 D	875	892	892	888	880	847	815	673	663	863	835	847	861	893	871	874	865	868	877	878	879	873	876	882	853	
4	885	876	889	889	882	886	888	886	886	885	845	806	833	879	886	892	888	871	874	877	879	874	892	892	876	
5	871	879	879	883	893	889	886	870	775	831	884	871	863	891	891	884	884	879	875	865	884	886	887	887	874	
6	879	883	883	883	885	881	879	853	843	855	865	865	876	884	882	896	892	875	861	873	873	874	886	883	875	
7	876	876	893	888	897	905	884	892	889	888	888	886	886	884	895	896	892	880	879	880	876	889	891	884	887	
8	890	883	885	886	888	888	892	891	891	891	892	892	889	896	895	894	878	876	865	878	885	888	890	893	887	
9 Q	893	899	897	891	892	897	893	894	895	896	896	898	898	895	889	879	881	878	878	886	875	881	889	889	890	
10 Q	891	875	891	891	887	887	889	889	888	888	899	893	893	893	893	893	889	883	881	881	885	887	888	889	888	
11	896	896	883	885	893	893	883	883	892	876	878	895	893	867	903	899	888	878	869	878	884	888	896	896	887	
12	901	901	898	899	952	913	897	887	887	884	894	878	839	868	875	885	870	870	862	860	870	879	890	883	885	
13	892	890	890	882	891	891	893	892	886	899	899	899	897	896	896	894	888	882	878	877	886	892	891	890	890	
14	890	895	895	892	892	892	894	893	887	877	884	888	894	875	896	892	884	882	873	872	878	871	884	882	886	
15 Q	888	895	896	896	894	892	890	889	888	888	891	888	893	892	892	890	884	882	881	882	870	885	891	894	889	
16 Q	899	898	899	898	898	893	892	892	893	895	897	899	898	898	894	892	884	877	878	873	884	887	892	895	892	
17 Q	893	903	903	903	900	900	896	882	896	886	896	898	898	897	898	896	893	886	883	884	887	887	891	882	893	
18	896	896	900	901	901	897	896	897	896	896	903	905	907	903	896	899	900	900	895	899	899	901	898	896	899	
19	901	902	901	930	925	906	894	881	885	874	885	887	880	880	881	880	874	875	873	856	853	853	866	885	884	
20 D	895	891	894	895	901	878	650	685	692	716	823	791	724	844	875	879	871	854	854	870	886	892	882	835	884	
21	888	891	878	883	875	888	888	877	879	863	889	888	880	856	859	882	889	888	884	875	891	892	886	890	882	
22	891	894	895	891	891	893	879	867	741	877	887	888	892	895	895	892	888	877	871	875	884	887	887	890	880	
23	896	899	887	885	884	881	891	891	886	882	877	882	900	900	895	841	800	877	875	868	870	861	874	891	879	
24	880	882	887	885	887	882	845	847	885	869	859	877	865	877	884	886	877	879	888	880	882	891	892	892	878	
25	894	894	881	887	883	873	886	870	886	879	879	839	876	901	899	901	899	890	891	893	897	897	897	890	887	
26	896	898	900	898	891	892	887	876	873	893	893	880	868	900	900	900	894	874	874	887	887	891	892	894	889	
27	900	897	900	899	891	910	900	898	895	897	895	890	892	902	902	899	892	880	874	863	884	894	895	896	893	
28	898	894	890	890	890	880	889	889	889	889	889	885	862	812	867	905	908	899	889	882	878	877	884	892	884	
29	882	895	892	894	894	892	892	881	882	889	882	861	884	898	871	866	900	886	884	877	885	892	894	874	885	
30 D	879	893	902	900	916	887	891	887	887	887	887	882	863	886	887	892	891	874	861	869	883	884	882	874	885	
31																										
Mean	891	900	893	894	892	891	887	868	862	868	871	878	872	875	882	883	883	879	874	872	879	883	888	880	881	

**DECLINATION**  
**Mean values for periods of sixty minutes; Universal Time**

Table 42 Meanook

D = 24° E + . . .'

November 1954

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	28.9	28.6	32.0	36.9	32.2	33.3	42.7	30.4	30.5	21.7	23.1	33.3	37.3	32.0	31.4	14.2	20.2	28.4	23.0	20.3	18.6	18.1	25.4	27.4	27.9
2 D	24.5	55.8	28.4	30.9	48.6	49.6	29.0	26.4	29.9	22.1	25.8	30.9	28.6	17.5	19.7	26.6	26.2	31.0	28.4	26.5	26.4	26.0	26.5	25.3	29.6
3 D	28.3	40.3	32.7	33.5	40.6	32.0	43.6	23.5	19.1	30.2	30.4	35.0	32.0	33.0	30.2	30.2	28.9	28.3	25.2	26.2	25.9	28.3	28.8	29.0	30.6
4	30.0	29.9	29.9	29.6	29.2	33.5	27.7	28.4	28.2	26.3	22.9	24.7	34.3	33.7	33.2	33.2	30.5	27.4	25.4	25.7	26.6	27.2	27.8	27.9	28.9
5	27.8	29.1	29.4	30.7	30.4	32.1	30.8	26.2	15.6	32.8	35.8	30.2	24.6	29.9	30.4	30.4	29.7	28.0	25.0	25.8	26.8	27.3	28.4	29.5	28.6
6	29.2	29.2	29.1	28.1	31.4	33.5	37.6	29.8	29.1	24.5	31.7	30.2	29.2	28.1	26.9	26.7	26.8	25.9	23.7	21.9	23.0	24.5	25.6	26.8	28.0
7	29.4	30.2	30.7	30.4	30.9	28.7	28.0	28.0	28.9	28.9	30.8	31.3	31.6	32.8	32.3	31.8	31.8	29.8	26.9	26.4	27.0	27.8	28.4	28.7	29.6
8	28.9	30.4	30.1	29.9	29.4	28.9	28.4	29.4	29.4	28.8	30.4	30.9	29.9	31.7	30.6	32.3	28.4	25.9	20.0	19.1	23.1	25.9	28.4	28.8	28.3
9 Q	28.9	29.5	29.1	29.4	29.4	29.0	28.9	29.9	29.4	30.4	30.8	30.9	30.9	31.4	31.8	31.3	31.7	30.3	27.9	25.5	25.2	25.9	26.8	27.6	29.2
10 Q	27.8	28.1	29.0	29.9	30.4	29.9	29.0	28.1	28.9	28.7	28.5	29.9	30.4	30.4	30.9	31.7	31.3	29.1	27.9	26.7	27.0	28.4	28.8	28.6	29.1
11	28.9	29.4	29.4	32.8	29.9	29.2	29.2	28.6	28.4	25.4	25.8	30.2	33.1	28.6	33.6	34.1	33.0	30.6	26.2	24.5	24.5	23.3	26.0	27.4	28.9
12	29.1	29.7	29.6	27.9	42.6	28.2	27.6	27.6	27.4	25.8	30.2	32.0	31.8	36.5	35.3	33.3	33.7	32.0	27.9	24.5	22.0	22.5	25.3	26.9	29.6
13	29.0	29.6	30.0	29.8	30.2	28.8	28.5	28.6	28.9	28.9	29.2	29.4	29.9	30.4	31.1	32.3	31.8	30.9	28.4	26.9	26.5	27.4	26.1	26.4	29.1
14	27.4	26.4	28.4	30.6	30.4	28.8	28.4	28.9	28.8	25.2	26.9	29.6	30.9	29.3	31.5	30.9	29.5	26.9	22.5	22.1	23.7	24.0	25.4	24.7	27.6
15 Q	28.6	29.1	29.8	30.0	29.8	29.0	29.2	28.9	28.4	28.6	28.3	28.5	29.7	29.9	31.1	32.6	32.5	30.8	27.9	26.7	25.5	25.9	26.4	26.5	28.9
16 Q	27.9	28.7	29.6	29.9	29.9	29.7	29.4	29.3	28.9	29.1	28.9	29.4	29.9	30.2	30.9	32.0	33.0	32.3	29.4	28.3	27.3	26.4	26.9	26.9	29.3
17 Q	28.3	28.9	29.0	29.3	29.6	29.3	29.6	28.7	28.4	29.4	29.4	29.7	29.9	29.7	29.9	30.6	31.3	30.6	28.6	28.4	28.2	28.0	27.4	27.9	29.2
18	28.2	28.2	28.2	28.8	28.9	29.1	29.1	28.8	28.8	29.5	30.6	30.6	30.8	31.8	31.5	30.4	30.4	29.4	26.4	25.9	25.9	25.8	27.3	27.2	28.8
19	27.4	27.0	26.1	33.8	30.2	32.4	30.3	29.3	28.8	30.6	30.4	30.2	30.4	30.8	29.2	29.4	29.4	24.1	25.0	24.9	21.6	22.9	24.7	27.1	28.2
20 D	27.7	27.4	26.6	27.4	30.4	30.1	28.4	18.6	30.2	37.5	29.9	34.3	38.2	24.9	31.2	28.8	29.0	24.5	23.7	21.2	19.2	22.5	25.4	27.4	27.7
21	29.2	30.8	32.8	30.0	29.8	29.7	29.6	27.2	28.1	25.3	29.8	30.1	30.6	28.4	25.3	26.1	29.1	29.8	27.9	26.3	25.3	25.4	26.8	28.1	28.4
22	30.1	29.8	29.8	31.5	33.9	32.6	30.4	30.4	05.7	18.6	18.6	30.1	31.4	31.8	31.7	32.3	31.2	29.4	26.4	23.3	24.2	25.8	26.9	28.8	27.7
23	29.6	30.2	30.4	29.9	28.8	37.6	27.9	27.3	27.8	27.8	27.5	27.7	31.4	31.4	32.3	24.0	03.3	21.5	23.0	20.5	19.0	22.0	24.2	25.1	26.3
24	29.9	30.6	31.6	31.6	33.2	29.6	22.8	20.7	29.4	28.7	27.0	30.8	33.0	31.5	28.1	28.8	27.9	27.9	24.9	25.9	26.0	26.0	27.2	28.4	28.4
25	29.2	29.4	29.6	29.6	33.3	29.8	27.9	22.6	28.4	29.9	29.1	26.5	29.4	31.7	31.7	31.8	31.8	29.4	27.9	26.1	25.9	26.1	26.1	26.9	28.7
26	28.9	29.4	30.3	29.9	29.7	27.1	29.1	28.0	25.2	28.2	29.6	30.7	29.8	37.3	35.3	33.1	31.7	28.9	26.0	24.8	24.5	24.5	25.4	26.7	28.9
27	28.4	29.3	29.4	29.4	28.7	30.1	23.1	27.9	27.9	28.1	28.4	30.2	30.8	30.9	30.6	32.2	33.3	30.2	26.4	26.0	23.0	25.7	27.1	27.8	28.6
28	28.7	29.3	29.4	29.4	29.4	28.3	28.3	28.3	27.9	27.9	27.9	27.7	26.1	31.4	32.6	33.1	32.6	30.5	28.4	25.7	24.2	24.7	25.7	27.6	28.5
29	29.5	29.6	29.6	30.0	29.6	29.3	29.0	28.9	28.8	28.9	28.8	26.9	29.7	30.7	29.4	22.2	28.9	28.1	26.4	23.0	18.1	21.3	22.9	25.5	27.3
30 D	27.8	29.1	30.4	31.4	61.4	44.6	31.7	27.7	26.9	27.9	28.0	30.4	28.7	29.0	29.6	33.3	32.2	25.9	22.5	24.1	25.2	25.3	26.4	26.9	30.3
31																									
Mean	28.6	30.4	29.7	30.4	32.7	31.5	29.8	27.6	27.1	27.9	28.5	30.1	30.8	30.6	30.4	30.0	29.4	28.6	26.0	24.8	24.3	25.2	26.5	27.4	28.7



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

Table 43 Meanook

$z = 58,000 \gamma +$

November 1954

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	851	854	874	870	872	884	884	851	821	715	715	755	755	724	719	720	748	793	809	845	858	851	862	869	812	
2 D	941	917	911	888	852	812	862	816	818	719	740	820	744	687	648	799	820	822	831	746	856	858	856	873	818	
3 D	876	896	858	873	783	787	730	652	652	747	755	762	792	829	830	830	838	825	821	836	840	843	845	842	806	
4	841	842	841	841	841	841	836	832	829	802	746	767	815	821	824	826	826	829	830	829	831	833	843	833	825	
5	842	851	853	864	869	854	839	819	660	723	806	779	795	811	822	830	830	833	826	836	837	837	840	839	821	
6	839	841	845	851	852	844	811	797	774	774	792	804	805	821	819	827	819	822	835	849	841	837	839	839	824	
7	840	840	837	835	835	839	824	827	830	823	821	821	817	817	821	822	820	816	815	822	823	827	829	829	826	
8	832	832	832	830	829	827	829	826	830	826	827	827	826	829	823	821	822	823	813	821	831	835	837	839	828	
9 Q	834	837	839	837	834	832	834	839	835	832	833	832	830	827	827	823	824	824	827	839	830	832	832	832	832	
10 Q	837	841	841	840	839	833	829	827	827	824	819	826	829	829	827	826	824	823	826	831	830	830	827	827	830	
11	830	830	831	842	837	830	830	829	826	795	775	813	814	794	816	816	816	817	820	831	832	832	832	831	822	
12	830	831	832	844	900	863	834	826	820	800	815	815	765	768	799	819	820	815	827	830	831	831	830	830	824	
13	836	836	834	835	834	833	828	828	832	832	833	833	830	831	832	831	828	824	828	832	834	834	834	835	832	
14	842	844	850	852	853	837	834	831	832	820	830	833	834	831	830	830	815	818	824	827	825	834	845	858	835	
15 Q	856	844	840	837	833	832	830	830	830	833	835	836	832	833	833	832	832	831	831	833	835	834	834	834	835	
16 Q	835	835	835	835	834	834	832	832	828	828	830	833	833	833	834	836	836	835	833	833	833	833	833	833	833	
17 Q	831	831	831	831	831	831	833	838	831	827	828	828	831	831	833	828	828	828	832	831	833	831	831	831	831	
18	832	832	832	832	832	833	833	831	824	822	823	828	823	817	820	824	822	820	820	827	827	827	828	828	827	
19	830	834	853	909	908	875	856	820	820	791	804	820	831	824	828	820	811	816	823	825	831	846	851	850	836	
20 D	852	855	870	894	903	878	831	688	687	710	702	729	763	735	742	788	807	828	830	838	837	840	842	850	804	
21	842	850	854	857	851	844	842	823	821	775	830	815	818	803	800	817	828	830	828	834	840	842	842	844	830	
22	841	840	838	848	850	851	831	788	689	770	801	820	827	831	834	832	831	826	826	833	834	836	840	840	823	
23	835	836	837	841	843	801	834	833	834	828	818	832	821	823	809	791	754	758	804	827	838	833	839	852	822	
24	852	856	863	852	848	842	776	767	809	815	807	821	815	826	832	829	828	821	828	835	841	836	836	836	828	
25	835	835	835	839	839	849	837	768	825	804	807	773	766	809	819	821	821	821	823	829	832	832	834	837	820	
26	834	834	834	836	843	843	843	821	789	824	824	814	777	790	818	823	823	823	828	834	834	834	836	836	825	
27	839	839	839	843	856	854	836	841	833	824	829	826	831	829	829	827	823	827	827	835	833	833	833	833	834	
28	833	833	833	833	833	829	831	831	831	825	805	781	781	813	793	799	799	778	826	832	835	838	837	843	820	
29	841	838	834	834	834	833	832	832	833	831	815	787	787	815	801	807	804	802	812	825	823	829	839	841	822	
30 D	844	843	843	857	814	832	834	831	831	832	831	824	819	821	823	828	823	818	832	838	838	833	839	836	832	
31																										
Mean	843	844	845	849	846	839	830	812	803	799	803	808	807	808	810	817	817	818	824	829	835	836	838	840	825	



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44 Meanook

November 1954

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° E +		24° E +			58,000 $\gamma$ +		58,000 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1 D	06 15	1029	15 02	688	341	02 55	51.0	09 15	03.4	47.6	06 15	985	09 23	618	367
2 D	01 13	1522	13 03	577	945	01 22	82.0	13 48	13.0	69.0	01 13	1015	09 46	641	374
3 D	04 08	943	07 45	445	498	06 35	74.5	08 10	11.7	86.2	01 33	962	07 48	383	579
4	22 55	902	10 48	791	111	05 27	39.2	10 37	19.5	19.7	22 50	852	10 48	719	133
5	10 50	904	08 26	745	159	09 42	41.8	08 29	07.1	34.7	03 50	878	08 23	620	258
6	15 08	901	07 57	853	48	06 14	44.7	09 37	19.5	25.2	05 28	863	09 46	754	109
7	05 44	918	18 40	871	47	04 52	36.3	05 57	25.4	10.9	01 40	845	05 55	810	35
8	23 13	901	16 25	862	39	15 30	34.2	19 05	17.1	17.1	23 45	841	15 05	809	32
9 Q	11 43	907	19 32	862	45	15 16	34.7	19 45	24.5	10.2	01 30	843	13 46	822	21
10 Q	23 45	900	18 23	876	24	05 55	32.3	18 40	25.9	06.4	02 10	843	10 25	813	30
11	14 13	908	13 15	846	62	03 52	37.7	09 45	21.4	16.3	05 55	852	09 54	759	93
12	04 21	1025	12 55	823	202	04 23	58.9	09 44	19.2	39.7	04 18	959	12 55	733	226
13	08 30	900	20 16	863	37	16 00	35.8	19 35	25.0	10.8	22 05	842	10 30	826	16
14	14 40	902	09 30	860	42	04 05	34.1	19 02	20.0	14.1	23 55	866	09 34	806	60
15 Q	02 45	902	20 16	876	26	14 48	34.1	21 05	25.3	08.8	00 05	869	17 45	827	42
16 Q	23 43	908	17 36	873	35	15 17	34.3	21 42	25.8	08.5	22 10	835	08 48	828	07
17 Q	00 22	909	18 55	879	30	07 50	31.8	08 05	26.2	05.6	07 47	843	09 05	827	16
18	12 34	910	17 35	874	36	14 30	33.6	21 47	23.0	10.6	06 55	838	08 53	811	27
19	04 07	924	20 08	845	79	03 42	45.4	23 13	17.6	27.8	03 16	956	10 10	776	180
20 D	04 43	918	07 20	506	412	09 28	46.3	07 43	02.1	48.4	04 12	940	08 35	619	321
21	10 05	904	13 55	813	91	02 43	36.8	09 08	18.3	18.5	03 35	864	09 26	638	226
22	05 50	909	08 12	604	305	06 48	37.8	08 20	05.7	43.5	05 36	865	08 13	458	407
23	05 25	941	16 09	747	194	05 15	57.5	16 32	05.7	63.2	05 11	876	17 00	699	177
24	06 17	899	06 42	775	124	02 16	37.3	06 43	09.2	28.1	02 20	874	06 45	676	198
25	07 00	907	11 36	821	86	05 43	36.7	08 18	11.1	25.6	05 45	856	07 23	715	141
26	01 52	909	12 17	837	72	13 17	38.9	07 52	20.0	18.9	06 33	854	12 15	754	100
27	05 40	971	20 00	861	110	05 40	39.0	06 31	10.7	28.3	05 40	878	11 33	812	66
28	14 32	908	12 36	772	136	15 32	37.0	12 24	19.2	17.8	23 20	832	12 35	628	204
29	21 55	916	15 15	823	93	17 54	34.1	20 13	16.8	17.3	22 15	832	12 23	759	73
30 D	04 05	1033	18 10	845	188	04 05	75.6	19 04	21.4	54.2	03 59	951	04 35	756	195
31															
Mean		944		790	154		43.1		15.3	27.8		880		723	157
No. days		30		30	30		30		30	30		30		30	30

MEANOOK MAGNETIC OBSERVATORY 1953-1954

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

Table 45 Meanook

H = 12,000  $\gamma$  +

December 1954

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	880	893	899	891	902	894	889	888	888	891	893	892	894	894	892	889	887	880	882	884	880	892	894	894	890	
2	893	895	897	893	890	894	889	890	891	892	884	873	867	884	891	892	887	880	886	890	891	892	892	892	889	
3	890	891	894	891	894	895	882	882	890	899	900	899	899	899	899	901	897	893	884	884	884	891	886	892	892	
4	900	900	899	896	896	892	892	897	898	890	845	862	905	904	905	900	902	896	881	882	894	894	896	897	893	
5	902	902	896	893	899	894	893	882	892	892	892	892	895	895	893	886	868	870	878	884	880	874	889	895	889	
6	902	903	896	898	900	899	893	890	890	865	892	901	900	896	896	896	895	892	887	887	891	893	894	901	894	
7 D	902	907	900	882	896	896	906	902	886	892	882	893	902	902	903	905	892	887	883	873	878	870	892	897	893	
8	894	894	893	884	884	894	891	887	886	884	887	884	887	896	896	895	892	889	891	892	894	894	900	900	891	
9	904	905	905	897	896	897	892	883	900	899	896	900	900	899	894	891	886	886	887	888	893	894	894	899	895	
10 Q	899	849	894	891	891	891	888	894	894	894	892	899	895	896	889	893	892	891	889	887	891	892	892	899	891	
11 Q	900	899	899	899	899	899	894	895	895	895	898	899	900	900	897	897	894	889	884	889	890	893	900	904	896	
12	905	903	902	899	894	882	889	870	877	902	892	884	887	896	900	896	882	874	894	894	899	895	884	884	891	
13	900	910	900	897	897	889	887	889	889	891	891	882	892	892	892	889	888	880	869	869	869	883	886	891	888	
14 Q	882	901	899	899	897	890	889	884	884	888	887	887	882	892	884	884	878	880	877	878	884	887	892	897	888	
15 Q	899	899	899	900	900	900	898	892	892	891	891	891	892	892	892	892	887	877	877	878	888	893	900	900	892	
16 Q	896	902	899	892	900	895	894	894	894	894	889	887	900	897	896	896	896	892	888	892	894	900	902	905	896	
17 D	907	911	905	899	899	890	846	764	725	763	872	785	555	761	904	899	899	891	891	888	891	889	885	885	850	
18 D	893	926	922	906	891	888	883	869	858	813	810	890	887	876	876	886	890	883	877	879	883	883	869	883	880	
19	893	901	891	891	889	889	890	890	890	890	876	891	896	885	871	896	907	891	879	880	871	869	877	891	887	
20 D	898	891	886	886	881	874	891	891	887	887	877	893	844	899	912	907	901	891	883	872	877	891	883	898	888	
21	900	906	901	893	893	891	892	889	891	890	898	879	868	899	911	907	899	890	883	885	888	893	898	899	893	
22	898	893	899	899	898	888	886	896	891	887	881	891	891	895	899	899	897	887	884	883	883	887	893	893	892	
23	883	895	899	898	893	887	890	889	891	881	868	883	886	898	910	907	903	890	890	891	891	891	891	895	892	
24	895	898	896	895	892	892	892	892	893	895	895	899	899	899	899	899	899	895	891	891	891	901	901	901	896	
25	890	890	891	890	890	891	890	882	884	898	898	899	900	901	898	901	900	892	890	898	889	889	893	896	893	
26	899	898	894	889	889	889	889	891	891	890	890	896	869	896	897	891	897	897	898	897	897	901	909	905	894	
27 D	891	915	921	889	884	876	882	888	887	874	846	867	818	675	860	895	902	891	887	891	899	891	889	890	875	
28	888	895	897	898	897	890	888	886	885	875	848	847	883	887	901	900	892	887	887	890	894	899	902	904	888	
29	898	896	897	892	890	885	885	885	888	882	851	881	897	890	889	890	894	885	882	876	882	894	897	897	888	
30	893	897	891	891	891	890	889	891	890	877	875	896	897	897	897	894	887	881	883	888	889	897	897	897	891	
31	900	902	902	902	891	889	888	887	887	888	889	890	892	889	888	885	888	888	888	885	893	901	905	902	892	
Mean	896	899	899	894	894	891	888	884	883	882	880	884	877	883	895	895	893	887	885	885	887	891	893	896	889	

**DECLINATION**  
Mean values for periods of sixty minutes, Universal Time

Table 46 Meantook

D = 24° E + . . .'

December 1954

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	29.9	30.7	30.4	31.3	36.0	29.7	29.2	28.6	28.4	28.1	29.4	29.6	29.4	29.9	30.6	31.4	31.4	30.0	28.8	26.9	25.9	27.0	27.8	28.3	29.6
2	28.5	29.6	29.9	29.3	30.6	30.4	28.7	27.8	26.9	27.8	29.4	26.6	25.8	28.0	27.9	31.4	31.3	28.1	26.7	26.5	25.6	26.6	26.9	27.9	28.3
3	29.9	29.0	29.8	30.2	29.8	29.4	29.0	28.6	27.4	28.1	29.2	29.8	30.0	29.8	29.7	30.0	29.9	29.4	27.7	27.3	27.9	28.1	27.8	28.4	29.0
4	28.1	28.6	29.2	29.7	29.7	29.3	29.4	29.2	28.9	31.5	24.7	32.3	31.8	31.7	30.6	30.4	30.4	29.7	28.1	26.2	25.1	24.1	26.1	27.0	28.8
5	27.0	27.4	28.4	29.0	29.9	30.4	29.4	29.4	29.0	28.4	28.9	28.9	28.4	29.0	29.1	29.1	25.0	21.6	23.7	25.0	24.5	25.5	26.9	28.1	27.6
6	28.0	28.6	28.0	29.4	29.4	28.7	29.4	29.9	29.7	23.8	29.7	32.8	30.4	30.4	29.9	30.0	30.9	29.9	27.1	26.9	26.9	26.6	26.0	25.2	28.6
7 D	27.9	29.7	29.6	30.2	30.4	34.0	35.3	31.9	30.3	27.4	26.5	27.1	29.7	28.4	29.2	31.2	30.4	29.0	25.6	24.8	23.0	21.8	25.4	29.2	28.7
8	29.0	28.9	29.7	33.9	39.8	28.8	28.9	29.3	29.4	28.8	31.1	32.3	33.0	31.8	33.3	32.8	30.9	29.1	27.4	25.2	24.2	25.1	26.4	28.6	29.9
9	28.4	28.9	31.4	29.2	29.3	29.0	29.9	28.0	25.0	33.9	30.3	29.8	29.9	30.9	31.5	30.9	30.7	29.4	27.0	25.9	26.9	26.9	27.3	28.2	29.1
10 Q	29.0	28.9	29.0	28.8	29.0	29.3	26.4	25.5	28.4	27.0	29.3	28.8	29.4	29.3	29.9	29.9	29.9	28.5	26.7	25.7	25.7	26.4	26.4	27.4	28.1
11 Q	28.6	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.0	28.3	28.8	28.9	29.0	29.9	29.9	30.4	31.1	29.6	28.0	27.5	26.7	27.0	27.0	27.0	28.7
12	28.4	29.3	29.9	29.9	29.8	32.9	29.0	27.8	29.6	32.5	30.6	29.9	30.9	34.0	34.5	32.9	33.0	28.4	24.0	21.2	24.5	22.9	25.6	24.5	29.0
13	26.0	28.1	30.6	30.4	30.0	29.5	29.1	29.0	28.7	28.7	29.8	28.8	29.4	29.4	29.0	29.9	30.3	31.0	27.7	25.0	23.6	20.7	21.7	24.5	27.9
14 Q	25.3	27.0	28.9	29.3	29.1	28.4	28.2	28.2	28.2	28.6	28.6	28.6	28.9	29.9	29.9	30.9	32.2	31.5	29.8	28.1	26.4	25.8	26.4	26.5	28.6
15 Q	27.0	28.6	28.8	29.0	29.0	29.0	29.0	29.2	29.3	28.9	29.9	29.9	29.9	29.7	29.7	30.1	30.6	31.4	30.4	29.1	28.1	26.9	26.1	26.9	28.9
16 Q	28.6	29.0	29.0	29.6	29.8	29.0	28.9	28.9	28.4	28.4	29.2	27.5	30.0	29.7	30.7	30.4	30.6	29.6	27.8	26.6	26.2	26.0	26.9	27.3	28.7
17 D	27.7	28.3	30.0	29.9	30.1	28.4	47.5	48.3	37.0	34.8	34.8	34.9	24.1	25.2	28.1	33.1	31.2	29.7	25.0	27.7	26.4	25.1	26.4	26.7	31.3
18 D	25.6	36.7	25.3	23.1	48.5	32.7	29.2	28.0	27.7	26.9	22.0	27.9	29.5	31.2	25.2	27.9	29.8	28.9	25.0	25.9	25.8	26.4	27.3	25.6	28.8
19	28.3	28.8	29.5	30.7	30.5	29.9	29.3	29.0	27.7	28.9	29.5	27.7	28.9	31.2	26.0	26.3	30.9	29.3	27.3	27.3	25.0	24.6	25.4	28.9	28.4
20 D	30.0	29.2	29.9	29.2	29.3	29.7	29.7	29.2	28.2	28.4	30.0	26.0	24.8	28.1	31.9	33.1	31.6	30.7	28.7	27.8	26.4	26.8	26.6	26.8	28.8
21	30.0	29.2	29.8	30.2	30.2	36.1	35.1	31.1	29.8	28.2	30.7	27.7	24.5	30.8	35.7	35.1	32.6	31.2	27.7	24.5	26.2	26.0	28.3	29.0	30.0
22	27.6	29.6	29.6	29.7	29.8	29.6	34.6	29.7	28.5	27.3	27.9	27.6	27.8	28.2	28.6	29.6	30.3	29.3	28.7	28.0	25.9	26.6	27.4	28.0	28.7
23	28.7	28.6	29.1	29.1	29.4	29.7	28.9	27.7	29.3	29.1	23.7	28.1	26.0	26.4	31.4	32.8	32.5	30.6	26.5	24.7	23.7	27.0	28.6	28.7	28.3
24	27.4	28.4	28.2	28.0	28.2	28.6	28.6	28.2	29.3	30.1	29.5	30.4	29.5	29.7	29.6	29.6	29.7	29.6	27.6	27.0	26.0	26.5	27.5	28.2	28.2
25	28.8	29.2	29.7	30.0	29.6	29.0	28.6	27.1	29.0	32.6	29.5	27.9	28.4	30.5	31.6	31.0	32.4	30.5	27.5	25.9	25.0	25.7	26.0	26.5	28.8
26	28.8	28.6	28.9	28.5	28.4	27.9	28.9	27.4	28.4	28.1	26.9	26.9	27.5	28.4	30.1	29.9	30.2	29.4	27.0	25.6	24.9	26.4	26.9	26.4	27.9
27 D	26.3	29.8	28.1	29.8	27.5	27.5	28.2	28.3	28.4	29.8	29.6	33.2	19.6	19.5	22.3	30.2	32.4	29.3	27.5	25.8	25.3	24.4	26.5	27.8	27.4
28	27.2	29.2	29.3	31.8	38.9	28.2	28.1	28.2	27.5	26.8	26.7	28.0	30.9	32.1	32.1	32.5	30.2	29.2	27.5	27.0	24.9	25.2	26.2	28.0	29.0
29	28.2	29.1	29.6	29.0	28.6	29.6	28.1	28.1	27.6	27.6	22.2	27.0	27.1	31.0	33.2	32.5	29.9	27.1	26.1	23.5	21.9	23.3	26.6	28.1	27.7
30	28.0	28.8	29.1	29.1	30.0	29.0	28.0	31.0	25.5	31.8	35.0	34.9	33.9	32.0	30.8	31.4	30.1	29.0	26.0	25.2	23.9	24.1	26.2	27.0	29.2
31	27.1	28.3	29.7	28.8	28.5	28.5	28.1	28.1	28.0	29.0	29.0	28.9	28.9	30.5	30.5	30.7	31.0	27.2	24.4	23.1	23.2	25.1	27.1	28.1	28.0
Mean	28.0	29.1	29.3	29.8	30.9	29.7	30.0	29.4	28.6	29.0	28.8	29.6	28.6	29.6	30.1	30.9	30.8	29.3	27.0	26.0	25.3	25.5	26.6	27.4	28.7

MEANTOOK MAGNETIC OBSERVATORY 1953-1954

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

Table 47 Meanook

z = 58,000  $\gamma$  +

December 1954

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	848	842	842	844	739	832	832	829	829	829	829	829	831	831	831	829	831	831	832	831	831	831	831	832	829	
2	830	831	828	843	831	831	831	818	828	827	825	812	784	803	818	824	825	825	826	830	830	833	832	832	825	
3	839	835	839	839	839	835	837	827	819	829	831	831	830	830	830	830	830	830	830	830	830	829	830	830	832	
4	831	829	829	829	829	829	828	818	818	818	783	751	801	818	812	823	820	820	818	826	823	828	826	829	818	
5	830	830	830	830	830	830	828	828	822	822	822	822	814	822	822	819	819	814	805	811	822	827	828	830	823	
6	827	827	827	827	827	829	838	827	816	792	802	813	816	816	818	822	822	816	816	818	821	826	827	827	821	
7 D	831	831	831	831	831	826	836	823	826	815	815	811	820	810	820	820	819	818	815	821	827	822	838	839	824	
8	831	834	834	848	831	836	827	827	825	814	822	820	826	822	816	816	816	816	816	816	816	816	816	850	850	826
9	819	824	833	835	844	853	840	818	759	804	813	814	814	813	813	813	813	813	814	813	813	818	818	818	818	
10 Q	818	812	817	818	822	823	800	788	800	817	814	814	817	817	817	814	814	817	817	817	817	818	819	819	814	
11 Q	821	821	821	821	821	821	821	821	821	821	821	821	821	821	819	819	821	819	811	816	816	816	816	816	819	
12	815	815	815	815	815	821	812	810	760	807	821	812	793	798	808	811	808	797	796	798	803	810	815	826	808	
13	848	861	840	831	821	819	820	811	811	811	811	814	814	814	814	814	809	809	811	814	820	820	829	820		
14 Q	828	828	828	819	818	819	813	813	812	812	812	812	813	813	813	813	813	813	814	814	814	814	814	814	816	
15 Q	815	813	813	813	813	813	813	813	813	811	811	811	813	813	813	813	813	812	812	812	812	812	812	812	812	
16 Q	811	811	811	811	811	811	811	811	811	811	811	803	806	811	811	811	811	810	806	806	806	806	806	806	809	
17 D	805	805	805	805	805	812	816	738	669	662	789	738	628	676	748	772	793	793	796	805	806	815	816	816	771	
18 D	859	926	895	876	824	839	815	798	776	753	761	804	805	795	815	801	801	806	812	815	826	820	826	827	820	
19	819	833	825	825	819	804	813	813	805	805	784	803	803	800	783	799	790	800	800	804	814	816	814	810	808	
20 D	814	822	822	822	822	825	802	804	802	804	797	755	690	774	813	802	802	802	807	807	813	812	818	815	802	
21	812	812	812	812	811	811	809	809	804	801	801	780	765	792	807	807	803	804	803	809	812	812	809	807	804	
22	811	821	813	811	811	811	811	803	800	800	800	800	800	800	800	800	803	803	807	807	805	805	805	805	806	
23	804	804	804	804	804	805	810	801	799	799	754	764	764	779	794	799	795	794	794	893	794	800	800	800	798	
24	798	798	798	802	806	806	809	800	800	800	792	796	802	803	803	803	803	803	803	803	803	803	803	803	802	
25	799	799	799	802	803	808	808	805	780	797	803	804	810	810	815	830	825	821	829	819	823	824	830	830	811	
26	808	808	827	827	822	819	818	818	818	813	807	807	814	814	813	812	812	808	809	809	809	809	809	807	813	
27 D	827	917	923	834	817	811	808	808	812	800	719	729	657	518	717	776	789	797	803	803	811	808	811	818	788	
28	819	824	837	838	825	813	805	805	801	775	712	711	772	790	809	800	806	808	804	804	804	804	804	804	799	
29	802	802	802	802	802	802	803	800	800	798	760	778	789	782	790	793	794	792	797	794	794	797	803	803	795	
30	801	801	801	801	803	803	807	801	781	787	787	798	803	801	801	798	792	795	800	800	798	798	798	801	798	
31	801	801	801	801	801	801	802	802	802	802	802	801	800	796	797	801	800	799	786	797	800	800	800	800	800	
Mean	820	826	826	823	816	819	817	809	801	801	797	795	791	793	806	809	810	809	809	814	813	814	817	818	811	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48 Meanook

December 1954

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range '	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	04 15	916	00 06	876	40	03 08	49.1	20 05	25.3	23.8	04 08	862	04 32	817	45
2	15 06	902	11 55	855	47	15 06	34.6	12 08	21.7	12.9	21 35	841	12 32	764	77
3	09 26	908	22 45	880	28	11 17	31.7	09 50	24.7	07.0	02 10	841	09 55	805	36
4	08 49	916	10 26	816	100	11 38	39.1	09 47	19.1	20.0	21 20	831	11 15	731	100
5	00 12	908	17 23	859	49	14 53	31.2	17 20	20.1	11.1	23 30	838	17 24	803	35
6	01 56	922	09 20	839	83	11 15	35.9	09 20	19.1	16.8	06 55	846	09 27	765	81
7 D	06 47	925	08 10	851	74	05 35	41.2	21 27	20.0	21.2	08 16	859	08 05	793	66
8	01 55	915	04 30	874	41	04 32	47.6	20 30	23.5	24.1	03 48	844	09 43	805	39
9	08 48	917	07 35	867	50	09 03	41.2	09 12	21.7	19.5	05 45	858	08 28	723	135
10 Q	07 10	914	06 50	877	37	05 57	33.6	06 38	22.6	11.0	05 35	827	07 27	778	49
11 Q	23 47	906	18 35	883	23	16 45	32.3	21 05	25.9	06.4	02 00	822	17 00	808	14
12	09 09	923	08 16	844	79	05 55	41.7	19 32	19.8	21.9	23 50	834	08 05	728	106
13	01 00	921	20 30	855	66	03 18	33.7	21 40	19.3	14.4	01 12	872	18 15	809	63
14 Q	01 27	905	19 00	871	34	16 37	33.2	00 13	23.7	09.5	03 50	830	15 00	810	20
15 Q	03 30	900	18 47	877	23	16 40	32.2	21 28	25.4	06.8	00 55	817	11 30	807	10
16 Q	23 55	909	12 33	877	32	15 22	31.4	20 53	25.3	06.1	01 00	817	11 55	797	20
17 D	06 52	985	12 20	491	494	06 52	80.0	12 25	04.6	84.6	07 46	831	09 06	543	288
18 D	01 10	1032	09 50	726	306	04 15	69.0	09 50	17.9	51.1	01 12	1030	09 52	721	309
19	15 35	921	15 38	844	77	13 50	34.7	15 02	18.2	16.5	01 35	834	14 38	769	65
20 D	06 19	934	12 05	774	160	15 25	35.0	12 00	20.6	14.4	06 02	846	12 05	644	202
21	00 13	923	12 03	835	88	06 12	44.7	12 03	18.4	26.3	00 55	831	12 10	744	87
22	00 07	908	06 28	873	35	06 37	40.3	20 58	24.5	15.8	01 31	824	09 35	797	27
23	15 23	913	10 22	849	64	15 23	33.6	09 13	20.1	13.5	06 07	812	10 35	727	85
24	23 48	906	10 35	885	21	11 03	31.9	20 00	25.0	06.9	04 35	810	11 45	783	27
25	15 10	908	08 04	857	51	09 15	34.9	08 02	20.6	14.3	15 32	841	08 03	730	111
26	23 15	915	06 12	877	38	06 40	30.3	19 55	24.0	06.3	01 00	828	23 18	800	28
27 D	02 03	991	13 00	452	539	01 42	38.6	13 00	15.5	54.1	01 58	987	13 10	272	715
28	03 15	918	10 46	812	106	04 10	48.9	10 45	21.3	27.6	03 15	861	10 08	672	189
29	12 19	908	10 27	828	80	05 51	37.1	10 25	17.1	20.0	22 28	809	11 32	742	67
30	11 35	903	09 53	845	58	10 50	37.1	08 40	21.0	16.1	06 25	812	09 52	752	60
31	00 14	907	12 03	877	30	16 00	32.8	18 54	21.6	11.2	12 02	810	18 15	792	18
Mean		922		827	95		39.3		19.6	19.7		845		743	102
No. days		31		31	31		31		31	31		31		31	31

MEANOOK MAGNETIC OBSERVATORY 1953-1954

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

Hour 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) (All Days)

Table 49 Meanook 1954. Data for months January to December, Year, Winter, Equinox, Summer. Values range from -12 to +24.

DECLINATION (minutes) (All Days)

Table 50 Meanook 1954. Data for months January to December, Year, Winter, Equinox, Summer. Values range from -5.6 to +4.6.

VERTICAL INTENSITY (gammas) (All Days)

Table 51 Meanook 1954. Data for months January to December, Year, Winter, Equinox, Summer. Values range from -36 to +46.



MEANOOK MAGNETIC OBSERVATORY 1953 1954

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	24	
	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 52 Meanook HORIZONTAL INTENSITY (gammas) (Quiet Days) 1954																										
January	+5	+5	+3	+4	+2	+2	0	-1	-4	-4	-5	-2	-4	-1	+1	+1	+2	-5	-6	-5	-5	-1	-2	+6		
February	+1	+1	+4	+5	+3	+6	+5	-1	+1	-1	-1	+3	+3	-3	+4	+6	0	-9	-13	-13	-9	-3	-1	-2	+3	
March	+4	+9	+7	+8	+18	+9	+8	-12	-15	+2	-6	+5	+2	0	+2	+4	-1	-5	-6	-11	-10	-4	0	+1		
April	+6	+3	+6	+2	+5	+10	+6	-1	+5	+7	+9	+5	+1	+3	+1	-5	-14	-18	-14	-9	-8	-3	+1	+4		
May	+9	+6	+7	+1	+3	+3	+4	+2	+6	+11	+10	+11	+10	+10	+3	-2	-13	-18	-21	-17	-13	-6	-1	+4		
June	+19	+25	+23	+21	+15	+13	+18	+17	+17	+20	+20	+26	+30	+29	+27	+23	+17	-10	-21	-22	+1	+8	+15	+25		
July	+14	+17	+14	+11	+8	+9	+3	+4	+4	+9	+11	+10	+11	+11	+7	+5	+4	-6	-16	-17	-15	-10	-2	+6		
August	+11	+12	+11	+8	+8	+5	+9	-6	-8	+6	-15	0	+1	+8	-1	+5	-3	-15	-17	-18	-20	-5	+6	+17		
September	+15	+15	+12	+9	+10	+10	+13	-23	-17	-6	-15	-1	-4	+12	+10	0	-11	-24	-23	-16	-1	+5	+8	+17		
October	+1	+5	+3	+3	+4	+6	0	0	-2	-6	+5	+10	+11	+13	+9	+2	+14	-12	-21	-20	-13	-3	0	+4		
November	+3	+4	+7	+6	+4	+4	+2	-1	+2	0	+5	+5	+6	+5	+3	0	-4	-9	-10	-9	-10	-5	0	-1		
December	-3	-2	+6	+4	+5	+3	+1	0	0	0	0	+1	+1	+4	0	0	-3	-7	-9	-7	-3	+1	+5	+9		
Year	+7	+8	+9	+7	+7	+7	+6	-2	-1	+3	+2	+6	+6	+8	+6	+3	-1	-12	-15	-14	-9	-2	+3	+8		
Winter	+1	+3	+6	+6	+4	+4	+2	-1	0	-1	0	+2	+2	+1	+3	+1	-1	-8	-10	-9	-7	-2	+2	+4		
Equinox	+7	+8	+7	+5	+9	+9	+7	-9	-7	-1	-1	+5	+2	+8	+6	0	-3	-15	-16	-14	-8	-1	+2	+6		
Summer	+13	+13	+14	+10	+8	+8	+9	+4	+4	+11	+7	+11	+13	+15	+9	+8	+1	-12	-19	-18	-12	-4	+5	+13		
Table 53 Meanook DECLINATION (minutes) (Quiet Days) 1954																										
January	-0.8	-0.5	+0.4	+0.4	+0.5	+0.6	+0.5	+0.1	-0.1	+0.7	+0.5	+0.8	+0.6	0.0	+1.8	+2.3	+2.4	+0.6	-1.0	-1.9	-2.6	-2.3	-1.7	-1.4		
February	-2.0	-0.8	-0.4	+1.1	+1.7	-0.6	0.0	+0.4	+0.2	+1.1	+1.1	+1.9	+2.9	+1.2	+2.4	+2.9	+3.6	+2.6	-0.4	-3.0	-5.1	-4.5	-4.1	-3.6		
March	-3.0	-2.4	+0.8	-1.2	0.0	+0.8	+0.5	-0.4	+1.0	+3.7	+1.0	+1.1	+2.0	0.0	+2.8	+3.8	+4.0	+3.9	+1.7	-0.3	-3.5	-4.2	-4.7	-6.2		
April	-4.2	-2.4	-2.0	-0.2	+0.6	+0.2	-0.4	-0.4	+1.1	+0.7	+1.6	+1.6	+2.5	+3.8	+6.2	+7.2	+6.0	+3.5	-0.8	-3.1	-5.3	-5.2	-5.1	-4.9		
May	-4.2	-2.2	-1.8	-0.7	-0.6	-1.8	-1.7	-1.6	-0.5	+0.5	+1.2	+2.6	+3.8	+5.9	+6.6	+6.8	+6.1	+4.2	+0.4	-2.4	-4.9	-5.4	-5.6	-5.5		
June	-3.1	-1.5	+0.1	+0.8	+1.0	-0.4	0.0	+0.1	0.0	0.0	+1.7	+1.0	+2.7	+4.2	+4.9	+4.4	+5.1	+2.3	+0.3	-2.3	-4.4	-5.6	-6.2	-5.7		
July	-3.8	-2.4	-0.3	-1.2	-1.0	-1.2	-0.3	-1.1	+0.8	-0.2	+0.2	+1.8	+3.7	+4.1	+6.3	+6.8	+6.7	+5.0	+0.6	-2.8	-4.3	-6.6	-6.5	-5.3		
August	-3.1	-2.0	-1.2	-0.9	-1.6	-1.5	-0.9	+2.3	+0.3	+0.8	-1.5	+2.4	+4.7	+5.5	+8.9	+9.0	+7.4	+3.9	0.0	-4.0	-7.3	-7.4	-7.0	-5.9		
September	-0.2	-0.1	+0.8	-0.8	-0.8	-0.4	-0.3	-3.7	-2.3	+3.0	+0.4	+0.3	+3.7	+4.9	+5.8	+4.1	+3.9	+1.1	-2.9	-4.2	-4.6	-4.2	-3.4	-2.9		
October	-1.3	-1.3	-0.6	+1.9	-1.4	+2.0	+1.0	+1.5	+1.3	-0.4	+1.4	+0.5	+3.0	+1.3	+2.4	+4.5	+5.0	-2.5	+0.2	-1.9	-4.2	-4.4	-3.6	-2.7		
November	-0.8	-0.3	+0.1	+0.5	+0.7	+0.2	+0.1	-0.2	-0.4	+0.1	0.0	+0.5	+1.0	+1.2	+1.8	+8.5	+2.8	+1.5	+0.8	-2.0	-2.5	-2.2	-1.9	-2.5		
December	-1.5	-0.7	+0.1	+0.2	+0.2	-0.2	+3.0	+3.0	+0.2	+0.5	+1.3	+1.2	-0.8	-0.2	-0.6	+2.0	+2.2	+0.9	-1.3	-1.6	-2.6	-2.9	-2.4	-2.0		
Year	-2.3	-1.4	-0.3	0.0	-0.1	-0.2	+0.1	0.0	+0.1	+0.9	+0.7	+1.3	+2.3	+2.7	+4.1	+5.2	+4.5	+2.2	-0.3	-2.5	-4.5	-4.6	-4.3	-4.1		
Winter	-1.2	-0.6	0.0	+0.5	+0.7	0.0	+0.9	+0.8	0.0	+0.6	+0.7	+1.1	+0.9	+0.6	+1.3	+3.9	+2.5	+1.3	-0.8	-2.2	-3.2	-3.0	-2.5	-2.4		
Equinox	-2.2	-1.6	-0.1	0.0	-0.4	+0.6	+0.2	-0.8	+0.3	+1.8	+1.0	+0.9	+2.1	+2.5	+4.3	+4.9	+4.7	+1.5	-0.4	-2.5	-4.4	-4.5	-4.2	-4.2		
Summer	-3.5	-2.0	-0.8	-0.5	-0.6	-1.2	-0.8	0.0	+0.2	+0.3	+0.4	+1.9	+3.8	+5.0	+6.6	+6.8	+6.3	+3.8	+0.3	-2.8	-5.3	-6.2	-6.3	-5.6		
Table 54 Meanook VERTICAL INTENSITY (gammas) (Quiet Days) 1954																										
January	+4	+4	+5	+5	+8	+11	-1	+5	-1	-3	-4	-6	-7	-7	-5	-3	-3	-6	-2	-2	-2	+1	+1	+1		
February	+7	+10	+11	+8	+6	+7	+7	+1	-2	-5	-10	-10	-7	-13	-8	-1	-2	-4	-2	-2	-2	+1	+4	+5		
March	+10	+18	+24	+16	+15	+18	+9	-1	-20	-28	-20	-15	-10	-6	-9	-5	-19	-5	-2	-1	+1	+4	+8	+12		
April	+18	+15	+10	+7	+11	+12	+2	-27	-8	-11	-1	-3	-7	-5	-4	-3	-2	-3	-6	-4	0	+9	+10			
May	+6	+9	+12	+16	+11	+13	+6	-10	-13	-8	0	+1	+1	0	0	-1	-6	-8	-12	-11	-8	-5	-3	+3		
June	+1	+11	+12	+13	+13	+8	+5	+1	-6	-17	-10	+1	+5	+6	+6	+4	0	-6	-12	-13	-11	-8	-2	+1		
July	+7	+9	+12	+10	+11	+8	+10	-2	-11	-9	+2	0	-4	-4	-2	-2	-4	-7	-8	-9	-7	-4	-2	+1		
August	+22	+24	+23	+22	+19	+19	+16	-31	-36	-19	-49	-22	-13	-14	-7	-2	-4	-2	-3	-2	+4	+6	+13	+24		
September	+20	+19	+20	+14	+15	+17	-1	-29	-59	-30	-26	-29	-20	+8	+8	+5	+4	+3	+2	+5	+11	+13	+13	+17		
October	+8	+8	+8	+12	+14	+5	-1	-2	-10	-31	-16	-7	-9	-1	+3	+3	+2	+1	+2	+1	+4	+2	+5	+4		
November	+7	+5	+5	+4	+2	0	-1	+1	-2	-3	-3	-1	-1	-2	-1	-3	-3	-4	-2	-1	0	0	-1	-1		
December	+5	+3	+4	+2	+3	+3	-2	-5	-3	0	0	-2	0	+1	+1	0	0	0	-2	-1	-1	-1	-1	-1		
Year	+10	+11	+12	+11	+11	+10	+4	-8	-14	-14	-11	-8	-6	-3	-2	-1	-3	-3	-4	-3	-1	+1	+4	+6		
Winter	+6	+6	+6	+5	+5	+5	+1	0	-2	-3	-4	-5	-4	-5	-3	-2	-2	-4	-2	-2	-1	+1	+1	+1		
Equinox	+14	+15	+16	+12	+14	+13	+2	-15	-24	-25	-16	-14	-12	-1	0	0	-4	-1	-1	0	+3	+5	+11	+11		
Summer	+9	+13	+15	+15	+14	+12	+9	-10	-16	-13	-14	-5	-3	-3	-1	-1	-2	-5	-9	-7	-6	-3	-7	-7		

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

Table 55 Meanook

HORIZONTAL INTENSITY (gammas) (Disturbed Days) 1954

Hour U. T. Month Season	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
January	+21	+29	+17	+20	+18	+15	+26	+9	-26	-25	-24	-52	-12	-1	-32	-10	-2	-19	-23	-6	+24	+23	+12	+11
February	+90	+57	+55	+65	+57	+77	+60	+24	-90	-79	-183	-169	-44	+2	-16	-88	-20	-28	-24	-15	+9	+17	+55	+49
March	+60	+45	+53	+66	+47	+39	-74	-39	+1	-95	-72	-49	-36	-6	-12	-30	-20	+2	-12	-9	+13	+16	+41	+67
April	+90	+60	+68	-10	+4	+48	-2	-12	-17	-27	-96	-104	-47	-20	-9	+4	-2	-21	-37	-27	-1	+31	+43	+106
May	+25	+44	+42	+57	+51	+21	-2	-10	0	-59	-41	-22	-18	-16	-5	-4	-11	-25	-32	-27	-4	+4	+21	+19
June	+23	+35	+25	+18	+7	+14	-26	-4	+4	-6	-1	-21	-41	+14	+15	+7	-4	-11	-18	-19	-14	-5	+2	+8
July	+24	+41	+33	+38	+31	+25	-9	-15	-11	+9	-93	-66	-67	-5	+14	+16	+3	-6	-4	-7	-9	-25	+24	
August	+36	+28	+34	+32	+46	+2	-47	-25	-74	-39	+10	-20	-11	-34	-16	+14	+9	-9	-15	-10	+3	+13	+11	+26
September	+65	+60	+54	+77	+80	+50	+18	-17	-125	-95	-87	-121	-79	-68	-21	-15	-21	+6	+6	+14	+33	+57	+51	+80
October	+134	+137	+146	+149	+103	+47	-51	-195	-209	-159	-183	-144	-75	-3	-6	-9	-9	-6	+7	+30	+30	+50	+93	+130
November	+30	+83	+40	+39	+22	+25	+23	-68	-65	-55	-55	-1	-39	-53	-21	-7	+17	+10	-1	-9	+9	+18	+23	+25
December	+21	+33	+30	+15	+13	+8	+5	-14	-28	-32	-20	-12	-76	-55	+14	+21	+20	+12	+7	+4	+8	+8	+6	+14
Year	+51	+54	+50	+47	+40	+31	-7	-31	-53	-55	-70	-62	-45	-20	-8	-8	-3	-8	-12	-6	+9	+19	+28	+47
Winter	+40	+50	+36	+35	+28	+31	+28	-12	-52	-48	-70	-59	-43	-27	-14	-21	+4	-6	-10	-6	+12	+16	+24	+25
Equinox	+87	+76	+80	+70	+59	+46	-27	-66	-88	-94	-109	-104	-59	-24	-12	-12	-13	-5	-9	+2	+19	+38	+57	+96
Summer	+27	+37	+34	+36	+34	+16	-21	-14	-20	-24	-31	-22	-34	-10	+2	+8	-1	-13	-17	-15	-6	+1	+2	+19

Table 56 Meanook

DECLINATION (minutes) (Disturbed Days) 1954

Hour U. T. Month Season	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
January	0.0	+0.9	+2.0	+3.5	-0.2	+2.1	+3.1	-3.4	-4.0	+2.9	+2.7	+1.2	+3.3	+1.4	0.0	+3.2	+4.1	-1.1	-5.5	-6.7	-4.1	-3.7	-3.6	0.0
February	-1.3	-1.1	+3.6	+7.1	+3.0	+10.1	+0.8	-0.2	-2.7	-2.9	-7.3	+4.4	+1.8	+1.0	+4.1	-1.0	-2.3	-0.2	-0.4	-1.4	-2.7	-3.0	-2.9	-3.8
March	-3.7	-2.5	-0.4	+0.4	+5.2	+1.0	-2.5	-8.4	-6.6	-6.4	-1.6	+2.7	+6.6	+2.1	+3.7	+6.3	+6.7	+3.4	+1.0	-4.3	+6.4	-6.3	-4.2	-1.1
April	-1.5	-2.4	-2.0	+1.3	-1.0	-1.8	-2.7	+0.8	-0.8	+0.8	+2.1	+1.9	+6.0	+8.0	+7.8	+9.2	+7.1	+5.5	+0.3	-5.4	-9.2	-6.3	-6.5	-1.2
May	-7.2	-5.8	-4.1	-1.5	+0.5	-0.6	-3.0	-2.3	+3.3	+1.4	+3.4	+5.7	+4.4	+5.5	+8.0	+8.4	+6.7	+4.9	+0.7	-4.7	-5.2	-6.2	-7.0	-6.3
June	-4.4	-3.1	-0.5	+0.2	-2.6	-2.0	-1.0	+1.8	+0.4	+0.7	-0.1	+0.9	+4.1	+8.0	+9.1	+7.6	+5.4	+3.8	+0.2	-2.3	-6.3	-7.0	-6.1	-6.6
July	-4.1	-4.1	-2.3	-1.2	+1.8	+1.5	+1.1	+3.3	+1.3	-1.3	-5.4	+6.3	+4.1	+3.3	+7.6	+9.6	+5.1	+2.0	-2.4	-5.1	-6.5	-6.6	-5.4	-4.6
August	-3.6	-0.8	-0.7	+1.0	+1.1	+8.2	-2.9	+5.2	+0.3	-1.1	-0.1	-0.6	+1.1	+6.5	+4.5	+5.7	+5.2	+2.8	-1.9	-5.0	-7.0	-7.6	-3.9	-4.1
September	-2.4	-2.8	-0.6	+4.8	+10.6	+5.1	-0.6	-4.2	-10.0	-3.0	+10.2	+7.3	+8.8	+8.6	+2.7	+1.4	+0.4	-1.5	-3.5	-3.5	-4.2	-3.6	-4.9	-3.7
October	-7.5	-5.2	-3.2	+1.5	+6.6	+3.8	-0.5	+5.3	+1.0	+3.0	+11.1	+10.8	+9.0	+6.4	+1.2	-1.3	-3.1	-8.4	-10.7	-7.6	-6.2	-3.7	-2.1	-2.9
November	-1.7	+3.1	+0.9	+2.9	+3.5	-8.8	+6.0	-3.8	-1.8	-1.2	-1.7	+3.6	+3.8	-1.8	-0.7	-2.5	-1.8	-1.5	-4.6	-5.5	-6.1	-5.1	-2.6	-1.9
December	-1.2	+2.0	-0.1	-0.3	+4.4	+1.7	+5.3	-5.6	+1.6	+0.7	-0.1	+1.1	+3.2	-2.2	+8.6	+1.4	+2.4	+0.8	-5.1	-2.3	-2.3	-3.8	-2.3	-1.5
Year	-3.2	-1.8	-0.6	+1.6	+2.7	+1.7	+0.3	-1.0	-1.5	-0.5	+1.1	+3.8	+4.7	+3.9	+4.7	+3.9	+3.0	+0.9	-2.7	-4.5	-4.4	-5.2	-4.3	-3.1
Winter	-1.0	+1.2	+1.6	+3.3	+2.7	+1.3	+3.8	-3.2	-1.7	-0.1	-1.6	+2.6	+3.0	-0.4	+3.0	+0.3	+0.6	-0.5	-3.9	-3.9	-3.8	-3.9	-2.8	-1.8
Equinox	-3.8	-3.2	-1.6	+2.0	+5.3	+2.0	-1.5	-1.6	-4.1	-1.4	+5.4	+5.7	+7.6	+6.3	+3.8	+3.6	+2.8	-0.2	-3.2	-5.2	-3.3	-4.8	-4.4	-2.2
Summer	-4.8	-3.5	-1.8	-0.4	+0.1	+1.8	-1.4	+2.0	+1.3	-0.1	-0.6	+3.1	+3.4	+5.8	+7.3	+7.8	+5.6	+3.4	-0.8	-4.3	-6.2	-6.8	-5.6	-5.4

Table 57 Meanook

VERTICAL INTENSITY (gammas) (Disturbed Days) 1954

Hour U. T. Month Season	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
January	+21	+43	+39	+36	+21	+22	+11	-13	-49	-20	-18	-26	-28	-12	-37	-21	-8	-11	-6	-5	+7	+11	+21	+23
February	+63	+64	+59	+36	+41	+43	+54	+4	-69	-58	-121	-203	-58	-3	-20	-69	-24	+5	+20	+19	+37	+69	+56	+59
March	+73	+65	+76	+77	+51	+31	-38	-124	-89	-93	-75	-88	-62	-3	-1	-19	-5	+10	+27	+24	+36	+31	+44	+61
April	+29	+37	-25	-33	+37	+13	-35	-66	-38	-7	-38	-40	-41	-28	-13	+2	+8	+6	+16	+25	+36	+46	+55	+52
May	+31	+54	+63	+73	+57	+18	-19	-34	-25	-69	-65	-70	-30	-28	-14	-7	-5	-4	-5	-4	+8	+13	+27	+37
June	+19	+35	+44	+24	+19	+25	-12	-4	-1	-49	-38	-30	-49	-6	+2	+1	-5	-6	-3	-2	-1	+1	+16	+20
July	+47	+52	+64	+66	+46	+8	-5	-42	-9	-5	-117	-125	-104	-42	-7	+1	+2	+16	+19	+20	+23	+35	+42	+42
August	+49	+64	+75	+79	+65	-13	-60	-70	-136	-75	-31	+2	-15	-44	-19	-4	+3	+5	+6	+12	+18	+27	+27	+35
September	+62	+66	+69	+82	+30	+4	+1	-54	-88	-94	-122	-117	-94	-93	-60	-37	-12	+27	+35	+54	+73	+92	+89	+89
October	+81	+100	+119	+119	+32	-21	-67	-105	-109	-99	-56	-61	-93	-73	-38	-28	-5	+22	+14	+32	+44	+50	+66	+69
November	+58	+59	+57	+62	+30	+24	+14	-47	-53	-70	-66	-36	-40	-55	-62	-21	-7	+3	+10	+6	+31	+31	+34	+40
December	+26	+59	+54	+33	+19	+22	+14	-7	-24	-34	-25	-34	-81	-86	-18	-7	0	+2	+6	+9	+16	+14	+21	+22
Year	+47	+58	+58	+54	+37	+15	-12	-47	-58	-56	-64	-69	-58	-39	-24	-17	-5	+6	+12	+16	+27	+34	+41	+46
Winter	+42	+56	+52	+42	+28	+28	+23	-16	-49	-46	-58	-75	-52	-39	-34	-30	-10	0	+8	+7	+23	+31	+33	+36
Equinox	+61	+67	+60	+61	+38	+7	-35	-87	-81	-73	-73	-76	-72	-49	-28	-20	-4	+16	+23	+34	+47	+55	+64	+88
Summer	+36	+51	+62	+60	+46	+10	-24	-38	-43	-50	-63	-56	-50	-30	-10	-2	-1	+3	+4	+6	+11	+16	+26	+34