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RECORD OF OBSERVATIONS AT  
MEANOOK MAGNETIC OBSERVATORY  
1956

H. E. Cook and Anne B. Cook

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## CONTENTS

	PAGE
INTRODUCTION.....	115
TABLES	
1-48 Hourly Values of Horizontal Intensity, Declination, and Vertical Intensity for January 1956-December 1956; Hourly Daily, and Monthly Means and Daily Extremes.....	117
49-57 Diurnal Inequalities of Horizontal Intensity, Declination and Vertical Intensity not corrected for non-cyclic changes, on all days, and on International Quiet and Disturbed Days by month, season, and year, 1956.....	165



# MEANOOK MAGNETIC OBSERVATORY

Geographic Latitude 54° 37'N  
Geographic Longitude 113° 20'W

Geomagnetic Latitude 61.8°N  
Geomagnetic Longitude 301.0°E

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

*Assistant:* Anne B. Cook

## Introduction

Meanook magnetic observatory has been in continuous operation since July 1, 1916. From that time until his retirement at the end of 1956, H. E. Cook was officer-in-charge.

During 1956, preparations were made for the observatory's participation in the program of the International Geophysical Year 1957-58. Since Meanook magnetic observatory played an important role in the Second International Polar Year of 1932-33, it is interesting to note the development of the station in the 25 years between these two international projects. During the Second International Polar Year, the station consisted of two buildings—the observatory of 1916 with its variometer basement which was added in 1927, and a standard Polar Year hut, on a two-acre site. On the eve of the International Geophysical Year, the station possessed 15 buildings, including a new magnetic observatory, and an administration building with dark rooms and laboratory facilities, situated on a protected area of 540 acres.

Between 1933 and 1956, the geomagnetic field at Meanook has shown a rather small secular change, with a decrease in east declination of approximately 2°, an increase in H of 158 $\gamma$ , a decrease in Z of 678 $\gamma$ , and a decrease in I of 17'.

## Variometers

Two sets of photographically recording magnetic variometers were operated continuously at a paper speed of 15 mm per hour, one at standard sensitivity and the other at low sensitivity. These instruments, designed by la Cour, were originally installed for the Polar Year 1932-33, but were later moved to the new magnetic observatory which was completed in 1951. Scale coefficients adopted for 1956 are given in the following table:

Standard sensitivity H 7.84 $\gamma$ /mm +1 $\gamma$ /°C

D 0.98'/mm

Z 10.83 $\gamma$ /mm

Low sensitivity H 22.56 $\gamma$ /mm

D 2.40'/mm

Z 16.76 $\gamma$ /mm

## Absolute Instruments

Cooke magnetometer No. 15 was used for the determination of absolute values of D and H. To reduce the observations to International Magnetic Standard, a correction of -0.3' was applied in D, and -0.00106H was applied in H. A portable electrical magnetometer of the saturated core type (P.H. Serson and W. L. W. Hannaford, *Can. J. Technol.* Vol. 34, p. 232-243, 1956) was used for the determination of D, I, and F. Quartz horizontal magnetometer No. 259 was adopted as the practical standard for H. Earth inductor Toepfer No. 1911 was the standard for I, with a correction of -0.25' applied to reduce the observations to I.M.S.

## Absolute Observations of Base-line Values

Absolute observations were made once a week, on the average. Simultaneous marks were made on la Cour records, and the base-line values were determined by calculation from the observed values and the measurement of the recorded ordinates at the corresponding times. The root mean square values of the observed minus adopted photographic base-line values were  $\pm 0.8'$  in D,  $\pm 2.8\gamma$  in H, and  $\pm 13\gamma$  in Z.

## The Magnetic Reductions

The time used throughout the IGY is Universal Time (U.T.). The hourly values of D, H and Z were obtained from the magnetograms by means of a ruled transparent scale. Each value represents the mean reading for 60 minutes, centred on the half hour. The product of the ordinates and the scale value is added to the adopted base-line value and the sum obtained is the appropriate hourly value printed in the text. From the tabulated mean values for each calendar month the mean value for each hour of the day and the mean daily value for each day of the month are derived.

The mean diurnal inequalities of the elements D, H, and Z (not corrected for non-cyclic changes) for all days and International Quiet and Disturbed Days are given for the same period in the tables.

## Magnetic Activity and Disturbance Indices

The three-hour range indices from which the internationally accepted K-indices were derived were sent to De Bilt and Göttingen each month. Lower limit of K=9 is 1500 $\gamma$ .

## Mean Values for Months and Year—Meanook

Month	D East	H	Z	X	Y East	I North	F
1956							
January	24 24.8	12878	58716	11727	5323	77 37.8	60112
February	24.2	889	731	710	25	37.3	129
March	22.9	890	731	741	21	37.3	129
April	21.6	899	731	751	20	36.8	131
May	22.8	882	732	733	15	37.7	128
June	20.6	903	724	756	19	36.5	125
July	21.0	902	713	754	20	36.4	114
August	20.3	900	714	754	16	36.5	114
September	21.0	890	725	743	15	37.2	123
October	20.9	895	718	748	16	36.8	117
November	25.1	888	787	708	28	38.1	183
December	24.3	912	798	759	35	36.9	199
Year	24 22.5	12894	58735	11740	5321	77 37.1	60134

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

Table 1 Meanook

H = 12,000  $\gamma$  +

January 1956

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	Mean
1	859	890	872	863	871	859	861	861	858	855	833	810	829	871	872	847	769	846	846	826	814	822	881	877	850
2	883	878	877	892	882	865	855	857	859	854	858	858	861	861	861	843	846	830	774	792	807	840	856	853	852
3	871	878	874	871	878	878	865	849	847	816	753	790	868	851	864	866	869	853	874	874	875	875	875	875	858
4	868	866	867	864	867	871	868	875	879	708	889	902	871	867	869	867	867	868	839	847	855	863	863	843	860
5	868	889	886	871	871	878	874	867	863	850	873	828	871	875	874	874	863	839	852	856	856	856	862	862	865
6	872	852	882	884	883	882	878	874	874	874	878	882	859	725	780	820	847	878	885	889	896	886	894	902	866
7	910	910	915	915	913	910	910	911	910	900	896	912	907	896	879	878	882	906	900	891	892	890	902	891	901
8 Q	902	913	921	914	914	911	909	912	899	882	883	910	914	907	910	914	915	908	902	891	896	900	904	911	906
9	910	915	915	915	909	900	904	904	868	813	756	616	651	871	921	921	928	914	902	894	894	892	896	902	871
10	908	910	911	910	914	920	933	866	612	777	864	816	847	805	751	608	781	829	847	924	914	885	868	925	847
11 D	930	1152	972	933	946	983	918	792	296	376	-015	376	501	628	577	725	811	821	822	933	922	922	910	914	756
12	916	910	913	906	904	925	907	891	891	827	819	611	812	764	883	878	872	835	818	835	863	930	918	929	865
13	918	946	914	910	910	894	886	882	892	895	896	897	895	904	910	905	904	898	895	896	893	894	897	905	902
14	913	912	914	914	933	918	904	902	900	879	878	902	913	907	910	912	912	906	892	889	889	888	892	904	903
15 Q	908	906	905	902	901	901	904	904	902	891	882	886	874	913	922	919	918	911	902	900	898	898	896	896	902
16 Q	901	909	906	913	910	913	910	909	907	890	887	921	921	917	917	917	917	906	906	901	896	901	901	909	908
17	913	913	918	918	916	929	921	916	901	906	906	866	870	896	920	928	927	913	904	893	881	893	895	895	906
18 D	903	899	895	995	940	940	929	815	791	595	783	901	909	856	747	889	946	917	901	885	882	956	909	924	879
19 D	917	898	898	895	917	921	901	842	707	635	619	351	259	499	543	825	862	842	888	885	882	878	895	890	777
20 Q	903	903	907	903	903	902	898	907	882	862	891	903	903	907	913	909	909	906	901	897	891	887	891	901	899
21	901	907	909	909	909	909	909	909	909	909	909	909	906	906	904	901	887	912	899	891	879	889	900	924	904
22	888	943	956	1265	1162	1136	952	904	892	888	890	889	905	899	906	906	906	904	893	888	888	894	895	905	940
23	905	905	905	904	905	909	909	901	901	904	905	905	905	906	909	918	917	905	890	867	851	846	906	893	899
24 D	894	902	901	899	946	911	934	929	816	765	588	190	620	803	835	871	820	797	777	798	913	928	933	1012	824
25	1040	1023	945	922	918	930	911	910	781	787	770	851	890	898	891	914	914	905	878	860	860	885	886	895	894
26 Q	902	902	902	902	904	904	902	905	905	904	902	905	905	902	906	906	907	904	899	902	902	897	894	902	903
27	908	907	913	914	911	914	915	891	876	813	790	883	875	908	898	929	926	898	851	797	872	900	895	908	887
28 D	930	997	1032	1110	860	1059	1000	891	852	851	851	732	605	765	902	919	915	903	891	887	875	887	881	911	896
29	899	907	915	923	926	947	931	903	883	852	911	895	895	891	830	853	875	899	934	900	897	903	910	910	900
30	900	921	921	919	936	919	921	908	900	898	897	879	877	875	874	861	898	900	897	898	895	872	887	892	898
31	899	919	930	923	926	915	917	908	923	881	856	755	907	909	900	908	895	900	869	864	858	892	889	907	894
Mean	904	919	913	925	916	921	908	887	844	824	816	798	827	851	857	875	884	883	875	876	880	889	893	902	878

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

Table 2 Meanook

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

January 1956

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	19.7	22.8	19.7	25.5	26.0	27.0	26.0	23.7	23.6	24.6	27.3	28.6	26.5	28.5	27.6	28.6	14.8	10.4	22.8	22.6	22.8	20.4	20.2	21.2	23.4		
2	23.7	19.3	22.5	22.1	25.0	24.0	24.6	23.7	22.6	23.9	24.7	25.1	25.1	24.7	25.0	25.0	25.8	22.8	23.9	18.5	15.2	18.9	21.0	22.3	22.9		
3	23.1	20.9	22.3	25.4	26.5	27.2	26.0	26.5	24.6	19.6	18.9	24.3	25.7	23.4	24.1	27.4	29.2	25.4	22.0	20.8	21.0	22.2	23.1	25.2	24.0		
4	20.8	28.6	21.2	23.2	25.8	31.2	26.5	27.1	27.1	15.3	26.9	29.2	26.3	25.9	25.7	24.1	26.7	24.1	30.0	27.3	24.4	19.2	18.7	19.2	18.9	24.6	
5	20.2	22.6	22.4	25.2	26.3	30.3	28.1	27.7	25.9	25.2	24.6	20.8	23.4	24.4	24.6	25.7	26.0	26.9	26.5	24.1	18.2	19.7	20.6	21.4	24.2		
6	21.4	27.8	21.2	23.6	24.9	25.6	25.2	25.0	24.2	24.6	24.4	24.6	26.5	13.3	13.8	24.1	26.1	21.3	23.9	22.3	22.3	21.3	22.6	23.9	23.1		
7	23.1	23.6	23.9	24.1	24.6	25.0	24.5	24.2	24.8	24.8	25.1	25.4	25.4	24.2	21.5	17.7	26.5	19.7	23.8	22.7	22.3	23.2	22.5	22.6	23.6		
8 Q	24.1	23.2	22.9	24.0	25.5	24.8	25.1	24.6	24.6	21.9	22.1	23.2	23.6	24.8	25.0	25.5	28.6	28.5	24.6	22.7	22.6	22.3	22.2	22.2	24.1		
9	23.0	22.2	21.2	35.9	26.9	25.6	27.2	25.6	21.2	30.4	36.4	34.9	42.6	35.3	25.5	28.7	30.0	24.5	21.2	21.1	21.6	22.1	22.6	23.0	27.0		
10	23.2	24.1	24.9	25.0	27.1	25.6	25.9	26.0	21.6	23.6	32.4	34.9	39.7	37.9	15.1	20.2	25.0	18.2	10.4	18.1	19.0	19.1	18.1	19.3	23.9		
11 D	19.3	32.9	25.7	26.0	27.9	28.3	37.8	08.2	16.5	31.9	58.3	17.4	53.9	50.5	23.2	26.5	23.0	10.4	15.2	18.1	18.2	22.1	22.2	24.2	26.6		
12	25.0	25.1	26.0	28.0	28.5	33.9	22.6	23.1	25.0	23.1	29.9	34.8	41.7	31.9	37.8	32.4	27.0	14.3	19.7	18.2	12.3	15.2	24.6	23.1	26.0		
13	23.6	27.6	26.0	25.9	25.0	29.0	26.0	24.2	24.2	24.1	25.0	25.0	25.5	28.5	29.0	28.6	27.9	24.1	23.1	23.1	23.1	21.2	21.2	21.5	25.3		
14	21.1	22.7	20.2	20.2	25.0	24.1	23.1	25.0	26.0	26.0	32.0	31.9	27.0	26.1	25.6	26.5	28.0	27.0	25.5	24.1	23.2	22.6	22.6	23.5	25.0		
15 Q	23.2	23.7	24.6	25.5	25.0	25.0	25.0	24.2	24.2	24.1	28.0	26.0	22.1	25.1	23.0	27.0	27.0	26.5	26.5	25.5	24.1	22.6	22.6	22.6	24.8		
16 Q	22.6	23.0	24.1	24.2	24.1	24.0	23.1	23.1	25.0	25.5	26.9	25.0	23.1	25.1	25.5	26.9	27.0	27.0	27.1	26.0	24.1	22.1	23.0	23.0	24.6		
17	23.2	24.0	24.1	24.1	25.0	22.2	22.2	24.6	23.3	25.0	26.0	23.1	26.0	27.0	27.5	28.5	27.5	26.0	25.0	24.1	22.1	20.6	20.2	20.8	24.2		
18 D	16.2	19.3	26.6	33.9	30.4	30.9	23.1	23.1	25.0	25.0	32.0	34.8	24.1	28.0	27.5	35.8	31.0	27.0	24.1	23.2	18.2	18.2	18.2	25.0	25.9		
19 D	25.0	25.1	28.0	28.0	30.9	32.9	24.1	25.1	40.7	24.1	49.6	45.6	43.2	47.6	16.3	21.7	15.7	08.9	13.3	20.6	23.1	21.3	22.1	23.1	27.3		
20 Q	23.1	24.0	25.0	24.7	24.7	25.6	32.9	30.0	23.2	22.0	22.6	26.0	25.5	24.0	25.5	27.0	28.5	27.9	26.0	25.5	24.2	21.6	21.1	21.1	25.1		
21	22.1	22.1	23.5	24.6	24.6	24.2	23.6	23.1	23.1	23.1	23.6	24.1	24.1	25.0	23.0	25.5	23.1	20.1	23.6	24.5	20.2	17.7	18.2	(17.7)	22.7		
22	20.1	24.1	21.1	04.6	19.2	23.1	24.0	22.0	22.7	22.6	25.0	26.0	26.1	24.1	26.0	28.0	30.0	29.9	28.9	27.5	23.0	23.1	23.1	23.1	23.6		
23	24.0	24.6	25.0	25.0	25.0	25.0	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.6	25.0	26.0	28.0	28.9	29.0	25.0	26.2	28.0	23.2	19.7	22.1	25.0
24 D	20.2	23.1	24.0	23.6	34.0	39.8	32.9	34.0	36.4	26.0	40.7	(26.5)	27.0	25.0	25.0	16.2	18.7	16.2	12.9	12.9	12.9	16.1	19.9	24.2	24.5		
25	23.6	23.7	20.6	22.8	23.6	25.0	27.2	29.5	27.0	27.0	24.4	28.5	30.0	25.7	22.8	27.1	29.0	29.1	27.6	22.1	19.7	21.1	23.0	24.2	25.2		
26 Q	22.2	22.1	23.6	25.0	24.6	23.6	24.6	24.0	23.6	24.2	25.5	25.0	25.0	25.2	26.9	26.9	28.0	26.9	25.5	24.7	24.6	23.7	23.8	23.5	24.7		
27	22.8	23.6	24.6	24.8	24.8	24.2	22.1	23.6	23.5	32.7	43.2	44.2	38.9	26.1	36.3	35.9	31.8	30.9	34.4	32.4	06.4	14.4	21.6	23.0	27.8		
28 D	21.2	25.1	19.7	30.0	48.6	45.5	25.0	20.7	26.6	25.5	27.0	28.5	29.6	30.9	27.7	30.9	30.0	29.5	27.6	26.4	24.1	20.6	19.9	22.6	27.6		
29	21.5	21.8	24.1	20.2	24.6	22.3	22.0	29.7	18.7	25.5	27.3	28.4	28.5	29.5	26.1	26.5	23.2	26.4	28.0	25.0	24.5	22.4	22.2	22.0	24.6		
30	20.7	25.2	25.5	25.5	21.7	27.5	24.8	24.6	25.5	26.1	28.5	30.0	25.0	27.1	28.1	25.6	25.4	28.2	25.0	26.5	21.6	19.7	18.7	20.2	24.9		
31	19.2	22.8	20.4	26.3	31.4	26.0	25.5	25.2	27.7	25.5	27.3	17.7	24.6	26.0	23.0	24.6	31.3	30.0	24.6	21.6	21.6	19.7	20.6	19.4	24.2		
Mean	22.0	23.9	23.4	24.7	26.7	27.4	25.6	24.7	24.9	24.7	29.4	27.9	29.0	27.8	25.2	26.6	26.4	24.1	23.7	23.1	20.8	20.6	21.3	22.2	24.8		

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

Table 3 Meanook  $Z = 58,000 \gamma +$  January 1956

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	800	746	831	811	811	788	787	786	775	765	742	692	690	720	721	737	711	709	718	707	705	681	670	683	741
2	762	759	764	815	786	757	733	731	731	731	731	727	731	727	727	691	722	733	719	718	745	756	772	759	743
3	798	797	801	802	811	804	783	737	749	707	640	749	768	761	771	771	768	764	744	727	733	733	762	783	761
4	724	759	757	757	786	808	762	731	667	574	603	584	625	679	706	735	731	707	775	818	793	791	791	797	728
5	803	803	802	803	803	813	811	779	978	767	754	727	758	771	772	775	771	768	763	772	778	775	781	781	788
6	793	819	802	789	789	789	781	779	779	779	779	779	764	619	608	666	717	754	688	688	692	691	689	691	738
7	688	681	682	682	682	682	682	682	682	671	652	688	665	657	624	634	639	667	666	682	693	693	696	699	674
8 Q	693	688	696	696	693	688	688	688	664	634	636	688	677	678	678	686	687	677	668	666	660	675	673	676	677
9	676	672	682	706	694	682	682	662	612	568	439	461	405	510	623	668	678	658	693	693	694	694	694	694	635
10	693	689	689	689	696	681	731	682	645	561	619	601	554	499	456	541	638	699	716	704	714	720	722	742	653
11 D	750	861	821	790	770	767	667	612	634	921	635	619	375	375	375	461	554	618	706	747	715	701	694	703	661
12	707	700	699	702	704	694	699	693	680	623	614	498	586	555	624	628	604	586	684	717	772	789	760	748	669
13	759	771	738	738	760	765	738	717	717	728	728	728	717	718	717	717	717	717	728	728	728	728	728	728	732
14	729	728	738	765	771	771	749	749	738	717	695	706	711	717	717	728	728	718	728	728	729	729	729	729	731
15 Q	730	730	729	728	728	728	728	728	727	716	694	705	684	706	728	727	723	723	728	728	728	728	728	728	722
16 Q	727	727	727	727	727	727	728	728	717	696	675	723	718	717	727	728	728	728	728	728	728	728	728	728	723
17	724	724	724	724	724	717	749	735	728	723	722	683	634	647	689	707	708	710	719	722	728	733	733	733	714
18 D	755	785	763	819	828	783	759	709	639	608	608	693	699	657	613	679	698	628	736	765	791	840	801	762	726
19 D	777	745	741	742	773	736	732	685	547	539	500	463	553	503	628	666	668	682	715	732	727	731	733	725	668
20 Q	724	729	727	720	721	725	729	721	695	679	698	706	707	711	719	720	721	721	732	732	731	733	731	727	719
21	722	721	721	721	720	718	719	714	713	713	713	713	713	711	711	711	709	699	701	711	713	714	714	744	715
22	765	828	785	748	724	810	774	721	710	708	709	699	699	699	701	703	701	699	721	722	723	722	721	721	730
23	722	722	722	723	722	721	720	719	720	720	720	720	719	719	719	721	719	714	711	711	729	744	777	743	724
24 D	736	738	733	734	779	765	779	721	673	548	566	593	530	583	581	626	625	655	645	745	831	748	786	805	688
25	798	786	786	789	786	795	764	773	722	645	643	665	686	720	720	738	737	738	742	749	741	741	737	732	739
26 Q	734	740	742	746	746	747	747	742	742	739	736	734	735	733	736	737	734	734	732	737	737	736	736	736	738
27	733	732	732	734	740	742	709	691	675	645	588	655	638	672	656	678	713	704	712	732	762	745	740	747	703
28 D	764	855	834	764	710	734	780	753	734	743	727	699	622	675	732	747	736	734	745	762	762	751	758	744	
29	752	753	762	762	775	794	775	747	701	705	742	736	732	724	694	699	688	721	747	749	745	754	762	753	740
30	763	774	764	760	763	774	754	742	730	726	724	686	656	665	656	651	656	718	729	738	732	734	753	751	725
31	754	763	773	766	775	764	745	753	754	732	678	601	710	712	716	732	721	742	740	734	750	768	953	764	746
Mean	744	752	750	750	752	751	741	723	709	688	668	668	660	663	672	691	698	704	718	728	736	736	743	738	716

MEANOOK MAGNETIC OBSERVATORY, 1956

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4 Meanook

January 1956

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.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$
1	02	31	904	16	30	714	190	15	23	33.5	17	12	2.0	31.5	01	53	872	11	10	657	215
2	03	20	912	19	34	762	150	15	10	30.8	20	06	11.2	19.6	03	52	863	15	08	653	210
3	19	33	890	11	12	752	138	16	23	31.8	10	01	0.3	31.5	04	28	815	10	08	532	283
4	01	10	914	11	11	808	106	05	35	41.5	09	16	9.6	31.9	19	30	988	09	28	514	474
5	17	01	922	13	50	666	256	05	45	38.8	19	14	14.3	24.5	05	35	836	11	11	699	137
6	17	00	921	13	50	665	256	17	01	36.8	17	33	4.0	32.8	01	15	829	13	50	524	305
7	17	40	929	15	40	858	71	16	59	31.3	17	50	7.4	23.9	16	53	741	16	08	596	145
8 Q	02	22	933	09	26	856	77	17	43	31.4	09	25	16.6	14.8	00	40	701	09	25	602	99
9	16	32	949	11	47	465	484	12	44	63.4	11	59	8.2	55.2	03	23	740	11	55	326	414
10	03	29	966	08	55	458	508	15	46	53.6	15	13	-6.9	60.5	05	54	772	14	40	410	362
11 D	01	34	1318	10	25	-265	1583	11	15	152.7	10	00	-51.4	204.1	09	56	1081	12	14	257	824
12	21	45	969	11	26	520	449	12	27	48.5	21	12	5.4	43.1	21	36	814	11	23	411	403
13	01	13	969	07	49	838	101	15	06	32.8	22	35	20.2	12.6	01	04	807	07	45	706	101
14	04	44	968	09	37	831	137	11	13	36.6	05	08	17.3	19.3	05	17	796	11	08	663	133
15 Q	13	52	929	12	27	858	71	20	20	30.9	12	16	17.9	13.0	00	01	738	10	11	674	64
16 Q	11	25	928	10	27	852	76	09	56	30.6	21	19	21.3	9.3	22	05	729	10	27	647	82
17	05	31	953	11	56	825	128	02	04	31.0	06	06	15.0	16.0	06	17	775	13	09	610	165
18 D	03	22	1069	09	44	352	717	03	33	43.8	09	36	-2.0	45.8	03	18	871	09	36	523	348
19 D	00	07	950	12	55	136	814	13	17	92.7	12	24	2.9	89.8	12	20	857	13	00	269	588
20 Q	15	14	916	08	56	836	80	06	43	34.8	09	00	18.4	16.4	06	13	739	09	27	677	62
21	23	10	967	16	44	853	114	16	39	31.5	17	15	14.3	17.2	23	15	749	16	51	690	59
22	03	27	1447	19	46	819	628	03	08	48.2	03	33	-58.2	106.4	03	31	932	04	41	505	427
23	22	36	974	21	24	830	144	17	13	35.9	22	32	11.4	24.5	22	31	828	19	11	691	137
24 D	23	27	1094	11	40	-288	1382	12	00	101.5	11	30	-67.4	168.9	23	29	879	11	34	-316	1195
25	00	55	1190	10	12	705	485	06	28	39.5	01	17	15.7	23.8	01	22	817	09	53	613	204
26 Q	15	46	925	22	21	886	39	16	08	29.9	01	02	21.0	8.9	03	05	751	13	58	725	26
27	15	00	1008	10	30	655	353	16	36	62.7	20	01	-4.1	66.8	20	20	781	10	26	471	310
28 D	05	20	1244	12	04	491	753	04	35	82.0	04	13	-44.6	126.6	01	23	900	04	06	507	393
29	05	32	975	14	36	756	219	15	25	40.1	08	40	8.4	31.7	05	30	806	08	58	592	214
30	04	17	966	15	13	830	136	05	48	36.5	22	24	15.9	20.6	01	26	805	15	13	624	181
31	01	58	949	11	13	634	315	04	09	41.9	11	25	11.1	30.8	03	05	814	11	14	523	291
Mean			998			645	353			47.7			1.8	45.9			820			535	285
No. days			31			31	31			31			31	31			31			31	31

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

Table 5 Meanook

H = 12,000  $\gamma$  +

February 1956

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	915	926	925	938	931	928	895	829	892	861	895	903	889	895	883	879	903	898	895	875	864	801	869	916	892
2	911	914	923	926	939	925	922	942	919	903	864	843	876	901	922	906	903	845	901	884	875	903	879	900	901
3	912	900	923	915	916	921	915	906	898	868	860	873	903	903	908	912	911	903	887	869	883	890	883	890	898
4	887	906	915	908	905	923	911	911	908	906	900	859	889	898	911	908	899	897	884	884	887	884	891	892	898
5	908	911	914	915	915	919	919	912	911	911	908	911	903	903	906	911	908	903	892	886	873	883	887	910	905
6	911	903	916	916	911	908	911	917	912	911	887	821	915	915	911	911	911	901	895	899	900	901	901	907	904
7 Q	909	910	909	911	914	915	915	915	913	912	912	914	912	913	912	919	915	907	899	898	901	901	895	903	909
8 Q	908	909	911	912	912	912	914	915	915	915	920	915	907	919	922	923	919	915	907	906	899	898	900	906	912
9 Q	912	913	915	919	919	916	915	915	913	913	919	911	926	923	923	922	919	912	901	903	905	907	911	915	914
10 Q	919	919	923	922	919	922	919	917	919	919	923	922	923	924	924	922	914	907	899	895	903	903	905	913	916
11 D	922	934	915	935	931	921	921	916	918	916	916	910	881	843	889	899	917	911	903	875	883	908	958	939	911
12 D	926	950	931	981	961	978	958	933	637	404	313	327	852	903	938	923	915	911	897	895	896	903	915	897	839
13	899	905	903	901	897	893	895	903	901	903	881	805	905	906	908	915	915	900	893	890	890	889	892	895	895
14 Q	903	903	901	898	903	905	909	905	907	905	909	911	912	915	919	919	915	915	903	884	880	883	889	895	903
15	911	911	911	911	910	911	908	911	912	911	911	915	915	919	919	915	905	892	876	867	869	872	897	905	904
16	904	915	911	919	937	958	950	911	911	911	911	911	864	798	856	851	879	869	879	872	869	875	891	900	894
17	908	908	915	916	916	916	913	907	905	912	908	911	915	919	919	919	915	903	892	883	874	874	884	892	905
18	903	908	911	914	909	908	903	907	895	875	883	906	915	923	923	923	918	908	895	887	879	879	888	892	902
19	905	907	923	923	923	926	923	915	910	915	797	706	739	760	908	947	943	930	902	897	890	892	892	899	886
20	903	903	906	907	907	907	908	908	911	911	911	911	913	869	818	915	916	905	887	879	879	883	892	898	898
21	903	910	909	908	906	908	908	908	908	913	912	913	912	905	910	906	906	892	887	878	884	892	898	903	903
22	930	923	926	942	942	922	914	909	908	911	915	923	915	901	865	883	919	911	898	884	876	878	892	903	908
23	906	913	908	908	908	910	911	908	909	907	899	892	915	908	906	907	895	887	893	883	880	879	883	897	900
24	903	910	909	909	909	909	911	911	908	908	899	856	891	934	923	923	914	903	898	890	890	890	895	899	904
25 D	907	911	914	969	1056	1079	445	139	201	645	612	402	102	759	551	271	387	782	895	856	848	876	879	903	683
26	891	879	895	891	903	923	907	895	829	806	805	757	622	817	908	906	898	887	884	879	890	887	883	883	864
27	911	939	1031	946	954	903	908	759	765	908	899	895	891	891	892	893	891	889	869	829	852	895	915	926	894
28 D	883	898	915	884	915	952	934	908	899	875	805	856	899	897	895	853	829	831	832	887	883	907	903	923	886
29 D	1102	908	946	937	1040	975	903	836	526	613	735	558	848	915	989	666	766	887	899	879	848	857	907	919	852
30																									
31																									
Mean	914	912	919	920	928	927	899	875	854	864	856	832	857	889	895	878	884	893	890	882	881	886	896	904	889

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

Table 6 Meanook

D = 24° E + ...'

February 1956

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	18.7	19.7	20.1	24.5	24.6	26.5	18.2	16.2	27.0	27.3	26.5	27.1	28.5	26.5	27.5	25.0	25.1	19.6	24.6	26.7	23.6	21.1	18.2	20.3	23.5	
2	20.2	22.8	25.0	28.0	30.9	22.6	24.6	32.4	26.4	23.0	28.0	26.9	28.6	27.7	29.4	30.0	30.0	29.5	22.6	22.2	21.6	18.3	18.3	21.1	25.5	
3	21.6	23.7	23.5	30.0	44.3	24.1	25.4	23.6	23.0	24.1	26.0	29.3	22.6	23.6	26.1	27.5	29.5	30.0	30.4	23.1	22.1	19.3	18.3	16.7	25.3	
4	22.6	22.6	23.6	24.1	25.9	30.9	22.6	24.6	22.7	24.1	25.5	23.6	23.1	27.1	26.3	27.5	29.0	28.1	25.6	23.6	21.1	20.6	18.3	19.7	24.3	
5	21.6	21.7	23.6	24.1	24.6	25.5	24.6	24.0	23.2	24.0	24.0	24.1	25.0	24.1	24.1	27.6	28.3	28.1	26.5	24.1	22.6	19.2	17.7	18.6	23.8	
6	19.3	15.7	22.6	24.1	25.0	25.5	25.7	27.5	26.0	24.1	27.3	21.4	25.3	26.8	26.5	26.5	29.5	27.9	26.0	24.6	23.7	23.6	22.1	22.6	24.6	
7 Q	22.6	23.6	23.6	22.6	27.5	24.6	24.2	24.2	24.0	24.2	24.1	25.0	24.6	25.5	25.5	27.1	29.0	28.7	27.5	26.1	24.2	23.6	21.4	20.1	24.7	
8 Q	20.2	22.6	23.1	23.6	23.6	24.1	24.1	24.2	23.6	23.5	24.6	26.0	24.8	25.0	25.0	27.6	29.0	27.9	26.0	25.5	23.6	23.6	22.1	21.1	24.4	
9 Q	20.6	22.1	22.6	22.8	23.6	23.6	24.6	24.4	26.1	26.1	22.1	26.3	24.8	26.0	27.3	27.5	27.0	25.0	22.6	21.1	20.6	20.4	22.1	23.9		
10 Q	22.6	23.6	23.6	23.6	24.1	23.6	23.6	24.5	25.0	23.6	26.0	26.0	26.5	26.0	25.7	26.9	27.7	31.0	28.5	22.6	20.6	21.1	21.1	18.7	24.4	
11 D	19.6	17.7	19.4	20.6	24.1	25.0	24.8	23.6	23.6	24.1	26.5	31.6	35.2	26.7	33.2	32.4	32.2	26.1	24.6	23.4	19.7	15.7	15.7	13.6	24.1	
12 D	16.7	23.1	24.1	25.5	28.1	38.7	36.9	27.9	06.4	30.9	57.8	34.8	36.5	27.5	28.1	30.1	30.9	30.9	27.0	25.0	24.5	23.6	22.1	22.6	28.3	
13	22.1	22.1	22.6	23.1	23.6	23.3	36.8	31.1	23.6	24.6	21.6	24.2	29.5	25.1	24.6	26.0	29.1	29.4	24.6	23.2	21.6	21.1	21.1	21.7	24.8	
14 Q	22.6	22.5	23.1	22.6	23.6	24.1	24.0	23.2	23.6	23.1	23.1	23.6	23.1	23.1	24.0	26.1	29.0	31.0	29.0	26.4	23.1	21.2	20.6	20.6	24.0	
15	21.1	22.0	22.8	23.6	24.1	23.1	25.6	23.5	25.1	24.2	24.6	25.0	25.5	25.0	25.6	29.0	31.8	32.0	28.0	25.0	21.2	19.1	18.2	18.2	24.3	
16	19.7	20.2	20.2	20.2	33.0	26.0	29.0	24.0	23.1	23.2	24.0	24.6	22.6	21.4	14.3	23.1	23.2	25.5	20.6	22.0	21.6	21.1	21.1	20.2	22.7	
17	20.2	21.1	22.1	22.3	23.5	23.6	22.8	24.0	23.1	26.1	24.9	24.6	24.1	25.0	25.1	28.5	31.0	33.9	30.4	27.5	25.0	23.0	21.0	21.1	24.8	
18	21.1	21.3	22.0	23.1	23.1	26.0	26.0	24.1	25.4	26.0	26.5	25.0	25.5	25.5	28.5	27.9	30.4	30.1	28.0	24.6	23.1	21.7	20.8	25.0		
19	21.2	22.1	22.0	21.1	21.2	20.2	23.1	24.1	25.1	25.0	24.6	54.0	40.1	40.3	31.7	30.9	30.9	30.0	29.8	23.6	23.1	22.3	21.6	21.0	27.0	
20	21.1	22.5	23.1	23.6	23.6	23.6	23.1	23.6	23.6	24.0	24.1	24.1	23.2	16.2	22.6	25.7	30.0	30.0	29.0	26.4	24.1	22.0	22.0	22.0	23.9	
21	21.1	22.1	22.6	23.5	23.1	23.1	23.3	24.1	24.1	23.5	24.2	24.2	23.6	23.1	25.6	26.1	26.0	29.5	27.5	25.5	23.2	21.8	22.2	21.5	23.9	
22	19.2	20.6	18.3	21.6	27.0	21.6	22.6	22.6	24.1	24.2	24.1	24.2	26.0	27.0	26.4	23.1	33.4	32.2	28.0	25.5	23.1	21.2	20.5	21.1	24.1	
23	21.3	22.1	22.6	22.6	22.6	22.6	22.6	22.6	22.6	23.1	23.2	25.9	25.0	26.0	26.0	26.4	24.0	24.1	23.9	21.9	22.4	22.4	22.4	22.4	23.4	
24	20.7	21.6	21.7	21.7	21.7	21.7	21.2	21.2	21.7	22.0	19.9	20.7	24.7	29.1	28.6	30.5	31.2	29.6	25.7	23.7	21.2	19.8	18.8	18.7	23.2	
25 D	18.3	19.7	20.7	21.7	20.7	14.3	24.6	44.6	29.6	-6.8	26.1	37.9	-4.2	01.7	66.8	67.3	32.0	12.4	29.7	33.4	23.2	19.4	22.9	21.2	24.9	
26	23.2	23.2	22.1	22.7	21.7	25.7	20.7	22.6	11.0	24.9	24.8	20.7	21.2	28.1	31.0	33.5	33.5	31.5	28.6	26.6	19.8	19.3	19.7	20.7	24.0	
27	16.8	21.7	16.8	17.8	21.7	21.7	20.4	-2.3	17.9	24.2	22.7	23.7	23.7	24.7	27.6	29.7	31.5	31.5	31.5	25.6	10.9	18.8	18.3	22.8	21.6	
28 D	20.3	18.7	15.4	36.4	19.7	21.7	26.5	23.2	20.6	26.7	28.1	29.6	24.6	23.7	23.7	25.6	23.2	19.7	20.3	17.8	19.8	20.7	20.3	18.3	22.7	
29 D	20.3	15.4	12.4	34.5	09.0	26.5	21.9	23.7	26.2	13.9	38.4	07.0	25.7	29.1	33.0	13.3	14.9	21.2	31.5	25.7	22.8	15.9	16.7	20.7	19.5	
30																										
31																										
Mean	20.6	21.3	21.6	24.0	24.5	24.3	24.6	24.0	21.2	23.1	26.5	26.1	25.2	25.0	27.8	28.6	28.6	27.9	27.0	24.7	22.0	20.8	20.2	20.4	24.2	

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

Table 7 Meanook

Z = 58,000  $\gamma$  +

February 1956

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	799	791	775	791	786	777	745	716	721	688	710	730	729	732	712	700	706	705	708	729	745	754	748	769	740
2	762	768	756	765	766	766	773	688	741	742	705	640	679	699	734	729	724	719	740	742	742	755	741	754	735
3	763	745	754	764	762	762	753	737	723	685	678	686	719	732	735	737	738	733	729	729	736	741	740	773	736
4	743	742	735	737	738	729	723	734	729	729	723	685	697	697	719	734	732	732	727	732	737	737	742	742	728
5	740	734	733	738	737	745	742	734	730	730	730	729	721	721	721	724	727	727	722	723	730	741	738	752	732
6	773	773	748	736	734	734	743	723	736	730	702	676	711	723	730	732	732	730	738	740	737	734	735	735	733
7 Q	734	734	734	734	740	716	741	741	716	716	730	730	732	730	734	737	737	737	732	732	730	732	732	738	732
8 Q	740	734	733	716	716	716	733	716	730	730	730	725	705	701	713	725	727	729	725	730	730	732	732	732	725
9 Q	737	736	737	740	742	742	741	742	740	727	716	722	721	725	725	725	725	723	724	727	730	730	730	730	731
10 Q	729	729	729	729	729	730	733	716	730	720	729	726	722	722	726	729	729	729	725	732	732	737	732	733	728
11 D	733	742	753	747	734	734	735	730	726	723	720	701	666	721	645	678	678	692	701	706	721	754	812	786	722
12 D	805	840	812	786	753	751	676	733	777	(341	828	719)	719	709	749	748	742	742	740	745	745	743	754	745	738
13	741	738	737	737	734	734	737	708	682	701	690	740	672	705	720	721	722	723	725	733	741	741	742	740	724
14 Q	737	736	735	742	742	739	739	730	727	723	722	723	729	721	723	729	730	730	723	729	732	733	733	734	731
15	732	732	732	732	732	732	730	732	721	699	700	726	730	730	721	727	730	727	722	729	732	734	734	745	728
16	742	736	740	880	816	829	817	753	729	722	730	729	675	598	613	640	705	715	740	762	768	753	753	753	737
17	753	762	763	758	751	740	737	732	735	727	727	726	721	729	727	732	732	725	726	729	729	732	734	734	736
18	732	732	732	730	732	739	733	733	721	694	676	707	722	732	732	732	734	734	732	733	733	733	733	733	727
19	737	732	734	730	730	742	774	736	712	709	490	298	371	(310)	630	759	745	735	726	732	739	746	741	740	671
20	734	732	732	732	732	732	732	732	729	729	729	729	721	686	624	700	726	730	729	729	732	735	733	732	723
21	729	727	727	727	727	729	729	725	725	725	725	725	721	720	721	721	729	725	727	727	732	729	727	727	726
22	729	725	732	770	769	742	736	728	725	700	716	714	715	706	694	674	705	716	715	716	736	738	737	737	724
23	728	726	726	726	726	726	727	727	721	716	699	661	704	710	721	726	733	727	738	732	734	732	730	732	722
24	726	726	726	725	725	725	726	726	726	725	709	641	636	710	721	722	722	722	726	726	736	726	726	725	717
25 D	726	725	726	746	726	608	493	752	856	943	1146	1099	974	915	768	710	543	624	715	732	779	764	760	769	775
26	770	759	764	769	791	804	796	781	721	713	634	634	708	721	748	760	754	742	742	747	750	749	748	749	744
27	767	800	829	807	892	775	769	591	694	748	758	748	747	747	748	738	737	732	742	749	764	775	803	759	
28 D	761	761	791	807	786	805	812	760	693	705	661	678	736	732	735	721	714	724	732	764	764	774	780	801	750
29 D	876	908	815	781	759	791	770	715	714	678	640	640	672	736	671	597	645	748	759	758	756	753	772	804	740
30																									
31																									
Mean	751	753	750	755	752	745	738	727	729	711	719	703	706	708	712	718	717	724	728	734	740	742	745	750	731

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8 Meanook

February 1956

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.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1	06	48	995	07	26	726	269	09	54	34.9	07	28	-11.0	45.9	00	53	826	06	58	584	242	
2	07	21	993	11	40	806	187	07	13	59.2	07	41	11.8	47.4	04	10	802	11	48	589	213	
3	00	06	942	10	28	821	121	04	29	40.2	23	13	13.0	27.2	23	330	793	11	56	656	137	
4	05	48	960	11	37	838	122	05	46	49.2	06	02	14.2	35.0	05	46	764	05	56	629	135	
5	06	16	925	20	50	858	67	18	05	31.4	22	14	15.7	15.7	23	59	766	13	18	708	58	
6	07	42	929	11	24	775	154	07	45	33.0	01	06	11.9	21.1	01	21	786	11	27	616	170	
7 Q	05	36	923	21	58	888	35	04	40	35.2	23	53	18.8	16.4	06	42	747	10	49	721	26	
8 Q	14	20	929	20	37	892	37	16	26	30.0	00	33	19.2	10.8	00	27	742	13	11	694	48	
9 Q	12	43	931	11	30	898	33	16	15	28.4	21	10	20.4	8.0	07	06	748	11	53	702	46	
10 Q	10	28	927	21	20	887	40	17	28	32.5	23	25	18.1	14.4	08	40	737	09	15	700	37	
11 D	22	28	1016	13	43	781	235	12	47	40.3	23	59	8.1	32.2	22	26	862	13	43	564	298	
12 D	05	53	1045	08	54	-29	1074	10	33	(62.1)	08	59	-36.2	(98.3)	09	45	1012	(10 32)	(67)	(945)		
13	12	58	937	11	20	774	163	06	42	52.5	10	50	16.9	35.6	06	35	786	12	46	548	238	
14 Q	14	40	923	19	23	872	51	17	18	34.2	23	30	20.1	14.1	04	45	750	09	56	718	32	
15	08	04	924	21	10	860	64	17	03	34.4	22	53	16.2	18.2	07	01	737	09	26	679	58	
16	05	50	997	13	16	738	259	04	06	39.2	14	33	9.8	29.4	06	04	858	13	30	548	310	
17	03	38	927	21	07	861	66	17	40	36.3	00	47	18.9	17.4	01	54	769	10	40	713	56	
18	13	10	926	10	04	845	81	05	52	37.3	23	34	20.2	17.1	05	52	751	09	58	658	93	
19	02	25	984	11	23	551	433	11	20	87.3	14	48	15.3	72.0	06	38	786	11	07	163	623	
20	15	25	937	14	04	750	187	16	25	24.1	13	44	4.5	19.6	13	43	755	14	09	351	404	
21	01	18	915	20	04	839	76	17	44	31.2	23	42	19.8	11.4	20	58	742	13	40	711	31	
22	04	06	1003	15	01	854	149	04	12	38.9	03	06	10.9	28.0	04	10	840	15	39	646	194	
23	02	27	945	11	25	885	60	15	25	30.0	19	00	10.5	19.5	16	15	748	11	21	633	115	
24	13	14	946	12	03	826	120	16	54	38.4	11	27	15.5	22.9	02	03	733	11	56	570	163	
25 D	05	03	1368	12	31	-113	1481	15	30	103.8	06	00	-43.9	147.7	10	10	1653	(06 25)	(-254)	(1907)		
26	08	27	1017	12	31	580	437	08	25	48.7	08	36	-31.3	80.0	05	12	823	08	35	475	348	
27	02	08	1087	07	57	511	576	01	58	37.3	07	50	-51.9	89.2	01	50	881	07	42	445	436	
28 D	05	29	981	10	33	781	200	03	25	50.2	23	43	10.9	39.3	02	50	834	10	46	626	208	
29 D	00	26	1215	08	45	335	880	10	51	57.5	08	56	-101.7	159.2	00	17	930	11	59	415	515	
30																						
31																						
Mean			984			720	264			43.4			2.2	41.2			826			547	279	
No. days			29			29	29			29			29	29			29			29	29	

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

Table 9 Meanook

H = 12,000  $\gamma$  +

March 1956

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	917	914	929	926	937	947	907	783	805	727	637	798	875	908	914	911	898	891	857	867	881	942	911	866	873
2	908	929	919	972	930	843	837	839	763	891	860	682	825	879	893	908	899	860	859	879	879	906	883	903	873
3 D	915	931	1020	1118	1228	1211	1087	938	966	240	146	641	561	399	399	748	799	811	778	836	994	1122	1032	931	827
4	887	947	895	901	926	1028	1173	914	891	851	836	790	851	814	797	868	907	895	884	879	879	879	889	884	894
5	887	895	898	896	898	900	907	906	899	899	891	891	879	872	875	875	868	848	861	852	864	899	889	889	885
6	895	914	923	938	934	924	915	879	903	891	868	864	891	899	899	907	900	883	864	844	864	868	868	883	892
7 Q	895	898	898	899	899	899	899	900	900	903	897	860	908	903	891	907	903	883	868	864	869	875	883	887	891
8 Q	894	897	901	899	900	900	902	902	898	903	906	908	914	915	915	911	903	893	881	872	870	872	879	883	897
9 Q	895	903	907	907	907	911	911	911	915	915	915	915	914	908	911	912	905	890	879	875	875	884	891	895	902
10	903	912	915	920	922	930	926	919	914	887	903	919	922	921	919	915	905	887	875	848	856	891	981	1103	916
11	1189	1126	1175	922	884	887	887	852	835	781	821	905	906	906	903	879	869	860	867	865	868	895	895	891	911
12	866	883	891	891	891	892	899	887	883	890	890	907	907	914	906	899	875	875	859	875	868	876	881	885	887
13	887	895	907	899	907	911	879	840	734	832	821	859	915	908	908	902	899	903	883	877	874	882	898	916	881
14	900	906	914	903	895	895	899	900	872	676	829	907	793	735	821	900	903	892	879	869	876	880	885	901	868
15	930	926	922	919	911	906	901	892	874	874	819	840	901	919	909	891	881	877	872	875	875	879	869	898	890
16	908	912	908	908	909	912	912	904	892	884	916	923	920	915	923	915	897	876	869	862	873	885	880	900	900
17 Q	912	908	908	909	906	909	909	908	912	912	909	915	916	916	916	915	904	884	880	885	886	898	901	904	905
18 Q	904	906	907	909	915	915	913	909	910	916	923	923	923	924	915	899	876	891	880	873	876	885	888	899	903
19	904	919	917	909	915	915	916	915	924	924	924	923	917	930	908	909	924	916	896	896	901	892	902	956	915
20	939	937	948	943	908	892	893	900	907	907	914	923	924	916	916	912	904	893	892	892	899	900	899	927	912
21 D	948	893	902	910	943	970	901	704	489	638	935	869	805	805	790	847	784	862	779	849	927	935	956	1100	856
22 D	1056	1118	1143	1190	896	888	986	701	647	763	689	638	613	806	865	917	900	873	884	907	930	1070	1118	1093	904
23	1076	1190	1170	1141	835	1006	1003	948	924	892	891	899	896	900	900	893	888	880	877	876	880	874	873	869	941
24 D	876	884	896	900	912	924	923	900	893	885	525	655	716	735	669	693	763	867	890	883	884	959	1002	1015	844
25	1029	970	908	916	932	904	943	876	822	873	744	822	895	884	899	888	865	826	861	869	885	912	910	930	890
26	873	888	924	917	927	939	917	900	767	459	497	684	728	581	822	861	822	884	869	862	865	891	901	911	820
27	900	907	914	920	920	904	904	904	899	884	844	872	904	890	899	910	904	876	849	858	870	880	924	962	896
28	1002	998	1033	994	978	1038	976	909	879	791	751	691	646	830	908	912	904	853	879	900	916	1010	1134	1090	918
29 D	1135	1233	1201	1041	1046	963	916	614	602	732	716	755	826	841	860	880	862	861	868	882	900	893	857	892	891
30	890	896	904	910	920	947	925	906	900	901	904	907	908	904	901	896	897	862	820	853	880	948	1040	1029	910
31	1057	987	971	1028	1035	967	920	923	814	826	837	774	722	833	841	877	898	884	876	884	893	886	896	912	898
Mean	941	949	954	947	931	935	929	874	846	818	805	834	846	852	864	886	881	875	866	871	886	912	923	936	890

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

Table 10 Meanook

D = 24°E + ...'

March 1956

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	19.3	19.3	19.8	18.7	20.7	25.2	27.7	10.0	27.5	27.5	20.7	16.0	15.9	24.2	27.9	29.6	31.5	32.6	26.6	24.8	24.2	24.7	17.8	16.7	22.8
2	17.3	15.0	20.3	22.1	22.2	13.4	18.4	26.6	30.5	30.1	24.2	31.8	16.7	23.2	26.9	29.1	30.1	30.5	28.6	23.2	22.7	21.7	18.8	16.7	22.3
3 D	12.9	11.9	15.0	04.4	14.8	11.8	34.5	23.2	12.1	35.3	21.3	58.1	49.6	49.6	64.7	30.4	26.3	25.4	44.8	32.5	39.4	45.3	25.7	16.3	26.4
4	15.4	21.6	19.8	18.8	45.3	28.6	26.1	23.7	17.7	21.7	25.7	33.5	29.6	32.5	32.5	25.6	27.1	28.1	27.7	26.6	24.2	21.7	22.2	21.7	25.7
5	20.7	20.7	21.2	20.8	22.2	22.7	40.5	22.6	22.7	23.7	25.7	25.7	24.7	24.7	28.6	28.6	28.6	20.7	21.7	12.4	12.4	14.8	14.9	15.9	22.4
6	18.8	15.0	16.8	23.7	17.8	19.8	29.6	22.2	24.7	24.7	23.7	22.2	26.1	29.1	29.1	28.0	29.5	27.1	24.7	21.7	18.8	17.0	17.8	18.7	22.8
7 Q	20.7	20.7	20.7	21.2	21.2	21.7	21.8	22.7	24.6	23.7	23.2	14.4	22.7	23.7	21.9	26.5	28.7	28.7	25.2	20.7	18.8	17.7	16.8	16.8	21.9
8 Q	18.7	19.8	20.8	21.8	21.7	21.7	21.7	22.7	22.6	23.8	23.6	23.7	23.7	23.8	26.1	27.8	29.6	28.8	27.6	25.7	23.1	21.7	20.7	20.7	23.4
9 Q	19.8	20.3	21.2	21.2	21.7	21.7	21.7	22.2	22.3	22.6	22.7	22.7	22.7	22.7	24.7	27.6	29.6	29.6	25.6	21.8	18.8	17.8	16.8	17.8	22.3
10	17.7	18.0	18.7	19.8	18.7	18.7	28.6	24.7	23.9	22.7	23.2	23.2	24.7	24.9	26.6	28.6	29.1	27.1	24.7	31.1	24.7	18.9	22.7	28.7	23.7
11	18.9	17.3	09.1	19.2	21.0	21.7	32.5	35.5	26.6	14.4	24.4	24.7	25.2	25.7	28.6	32.5	31.5	31.5	25.2	18.8	17.8	18.3	17.8	15.9	23.1
12	18.3	18.9	19.8	19.9	19.8	20.7	20.7	22.7	23.2	23.7	24.7	24.7	21.7	24.7	30.1	33.0	36.3	30.5	30.5	22.2	19.3	16.8	16.8	18.3	23.2
13	19.8	21.2	20.7	20.7	29.6	24.7	26.6	30.1	27.6	25.7	19.9	18.3	22.8	25.7	26.6	28.1	28.1	25.7	22.6	19.8	17.8	15.4	15.9	15.7	22.9
14	16.3	18.8	20.3	20.7	19.9	21.7	21.2	21.7	28.6	26.5	35.5	23.7	29.6	08.9	21.6	34.5	37.3	33.5	28.6	24.7	21.2	19.9	18.9	19.9	23.9
15	18.3	21.8	20.7	21.6	20.7	21.2	21.5	27.6	29.8	22.7	23.8	21.2	21.5	24.5	28.8	31.5	35.9	31.2	30.2	23.9	20.7	18.9	18.3	18.2	23.9
16	19.8	20.3	20.7	20.7	20.7	20.7	20.7	21.7	26.8	28.1	24.7	23.0	23.7	25.6	28.5	31.5	32.5	31.6	27.8	24.2	18.9	16.8	13.9	15.8	23.3
17 Q	17.8	18.8	20.3	20.8	21.2	21.2	21.8	22.0	23.6	23.6	22.7	22.6	24.2	25.6	27.8	29.7	30.5	28.8	24.2	19.3	17.3	17.3	17.0	17.8	22.3
18 Q	18.7	19.8	20.7	20.7	20.7	20.7	20.8	22.2	27.1	22.2	22.3	23.2	23.3	24.7	27.1	29.6	25.2	23.7	27.6	24.6	19.3	16.8	16.3	16.3	22.2
19	18.8	18.9	19.8	21.9	19.8	19.8	20.7	22.7	22.7	23.8	23.7	24.6	20.7	23.7	19.7	23.7	27.0	25.2	22.8	21.8	20.7	19.8	13.9	10.9	21.1
20	10.1	14.4	12.8	23.7	20.9	21.6	21.6	21.6	21.7	21.7	22.4	22.6	23.8	25.7	28.0	32.4	33.5	31.5	26.3	21.2	18.8	15.1	15.0	13.9	21.7
21 D	16.8	16.3	18.5	18.8	16.7	26.5	20.3	21.2	20.7	30.1	28.1	22.7	15.9	24.8	29.6	31.5	32.9	25.7	22.7	02.3	13.8	15.0	15.9	21.7	21.0
22 D	20.7	13.9	18.9	10.9	10.0	12.7	06.6	00.3	22.1	24.2	28.1	27.9	21.6	22.7	28.5	29.7	33.5	30.1	26.7	17.0	18.2	24.8	26.1	23.2	19.2
23	25.2	18.8	20.7	17.8	06.2	03.1	23.9	21.4	21.8	21.4	22.2	22.6	23.2	25.2	27.7	30.5	31.5	29.6	26.1	23.7	21.7	20.6	20.8	21.7	21.2
24 D	21.7	21.8	20.8	19.8	17.8	20.8	25.7	21.7	21.7	24.7	16.8	40.3	35.9	40.3	28.1	31.1	20.3	21.7	24.6	17.8	20.7	22.7	19.3	17.8	23.9
25	16.9	16.8	15.8	19.8	30.5	22.7	18.1	24.7	12.9	27.6	10.9	18.3	25.7	30.4	33.4	36.9	36.5	29.6	21.7	15.4	16.8	16.8	15.4	13.4	22.0
26	13.9	15.9	16.8	19.4	20.3	20.7	24.2	22.6	14.9	33.0	39.9	32.5	30.7	21.7	28.1	31.5	31.5	32.5	21.4	18.1	15.9	15.8	17.8	17.3	23.2
27	18.8	19.9	20.3	18.8	22.2	22.7	20.8	21.7	24.7	23.7	26.5	28.6	28.6	30.1	31.4	33.4	29.6	31.0	18.3	15.4	14.8	16.8	15.9	14.9	22.9
28	15.4	10.0	27.8	08.0	17.8	20.8	29.6	25.6	25.7	25.7	31.5	24.7	34.5	30.5	32.5	35.0	37.4	35.9	27.7	26.2	23.3	30.1	29.6	18.1	26.0
29 D	18.8	29.6	16.9	21.2	15.8	19.3	26.6	05.6	33.0	32.6	19.7	19.8	21.2	23.2	29.5	32.0	33.0	27.7	28.6	25.0	24.3	22.7	18.9	18.8	23.5
30	18.7	20.3	20.7	21.2	22.6	35.0	22.7	23.2	21.8	22.2	20.8	22.6	22.7	27.6	32.0	34.6	35.9	35.0	36.4	24.2	17.7	19.3	17.8	12.4	24.5
31	12.4	12.9	07.5	16.8	16.8	22.7	21.6	20.8	28.6	26.7	28.6	34.4	30.5	33.0	30.5	26.7	28.6	27.6	20.7	18.8	14.9	11.4	10.8	10.9	21.4
Mean	18.0	18.4	17.6	19.2	20.2	20.6	23.8	21.8	23.7	22.9	24.2	25.6	25.3	26.5	29.3	30.4	30.9	29.0	26.4	21.3	20.0	19.8	18.3	17.5	22.9

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

Table 11

Z = 58,000  $\gamma$  +

March 1956

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	769	753	759	770	796	796	770	694	699	651	620	607	705	737	753	753	747	747	759	770	777	812	796	753	741
2	759	766	786	796	769	688	661	732	597	735	688	619	732	723	736	746	747	737	746	748	756	778	764	769	732
3	769	807	834	833	516	567	499	719	679	646	682	1184	736	722	763	842	680	653	726	749	844	769	767	759	739
4	790	782	769	783	779	765	737	726	768	721	713	672	742	694	721	737	737	748	748	749	753	759	759	756	746
5	758	753	751	751	758	759	715	721	742	719	725	736	737	719	732	726	725	706	721	737	749	753	748	759	738
6	767	780	786	789	813	807	727	695	758	732	699	685	716	725	736	736	737	732	737	742	753	759	753	746	746
7	748	742	742	742	742	742	742	736	737	732	721	678	726	726	732	742	738	737	740	740	739	748	752	752	736
8	748	747	742	742	742	742	742	742	726	727	726	736	738	737	737	737	739	737	732	732	737	739	741	742	738
9	737	738	737	737	737	737	737	737	737	737	736	736	737	737	738	738	737	737	732	732	732	732	732	732	736
10	732	732	727	732	738	774	747	742	738	704	704	735	737	737	737	737	737	737	737	736	732	769	821	749	740
11	770	715	738	777	780	773	651	688	716	683	685	737	747	742	742	742	738	737	735	737	748	758	764	769	736
12	759	750	746	745	742	752	753	747	725	721	714	737	737	732	737	737	730	732	726	736	741	742	741	738	738
13	737	742	759	762	780	788	727	667	640	678	683	699	738	742	742	740	737	737	737	746	748	753	760	779	734
14	769	758	764	762	760	744	741	736	683	564	586	704	608	607	574	678	720	727	732	737	747	758	760	758	707
15	770	786	802	782	767	742	733	712	683	675	659	672	735	746	740	729	733	737	737	736	734	738	742	742	735
16	740	739	737	738	735	735	736	739	668	673	721	732	737	730	737	739	734	732	724	727	737	744	742	742	730
17	742	734	734	732	732	732	734	729	726	725	726	726	727	732	732	735	726	725	726	727	732	734	741	739	731
18	732	732	732	732	732	732	732	721	679	699	727	726	730	732	728	721	721	709	719	721	724	732	737	735	724
19	732	732	736	746	739	735	732	736	726	714	712	712	705	705	710	704	716	716	718	716	726	740	768	812	729
20	796	813	807	787	770	737	729	730	729	726	721	724	729	735	737	721	721	721	721	719	719	716	718	735	740
21	742	742	736	732	762	760	587	528	648	688	726	720	645	630	619	642	619	679	694	721	737	751	773	747	693
22	661	742	657	494	596	732	748	737	727	790	575	639	672	686	678	720	737	753	764	781	776	798	813	727	708
23	682	673	733	606	656	543	670	768	737	742	748	753	748	759	761	759	758	759	758	749	748	748	748	749	723
24	758	750	751	758	763	738	759	755	732	705	598	564	510	514	511	591	629	699	726	737	759	765	705	694	686
25	662	749	792	791	781	736	759	681	705	726	641	683	732	729	742	737	726	724	737	727	726	748	775	796	734
26	748	741	759	775	769	769	740	726	644	516	467	651	683	626	705	710	727	730	732	732	738	769	760	748	707
27	748	759	766	759	705	721	721	736	715	694	634	660	694	682	705	710	715	727	736	737	748	769	803	844	729
28	834	823	791	835	856	807	790	774	732	726	629	505	490	586	694	732	737	727	759	803	801	850	888	835	751
29	715	629	753	802	715	790	640	478	607	715	792	705	694	693	699	726	737	769	845	781	781	780	769	760	724
30	748	748	748	758	759	726	764	759	748	737	737	742	748	749	748	747	747	740	738	759	780	813	814	833	758
31	833	795	834	818	806	837	791	725	710	695	673	684	662	624	641	683	724	742	748	764	779	770	759	764	744
Mean	750	750	758	754	745	742	720	713	705	700	683	705	702	701	712	726	724	729	738	743	752	761	765	760	731

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12 Meanook

March 1956

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	05 12	985	10 09	465	520	10 09	37.4	07 55	-37.7	75.1	21 50	838	07 49	445	393
2	03 34	1044	11 41	523	521	08 17	57.0	06 16	-31.2	88.2	03 30	844	06 05	468	376
3 D	05 00	1228	09 30	-87	1315	13 51	166.7	09 00	-109.2	275.9	11 28	1533	(04 44)	(279)	(1254)
4	06 23	1474	12 01	590	884	04 30	59.9	06 38	2.0	57.9	06 58	856	06 21	564	292
5	06 07	951	17 21	836	115	06 12	54.7	20 13	6.1	48.6	06 09	801	06 57	667	134
6	03 39	998	07 18	817	181	06 36	43.3	07 07	11.0	32.3	04 30	845	07 02	621	224
7 Q	12 50	916	19 19	820	96	06 20	30.2	11 10	4.0	26.2	22 13	864	11 15	639	225
8 Q	14 05	915	20 00	865	50	16 45	30.5	00 01	16.8	13.7	00 10	750	08 52	707	43
9 Q	10 59	915	19 40	871	44	17 36	30.5	22 10	16.4	14.1	00 04	742	21 22	727	15
10	23 58	1178	19 31	843	335	06 44	36.5	21 49	13.9	22.6	22 46	850	09 50	672	178
11	02 16	1336	10 03	711	625	06 36	55.1	02 13	-12.5	67.6	00 10	818	06 41	499	319
12	13 49	935	00 03	847	88	16 15	38.4	21 57	13.9	24.5	00 01	760	10 12	692	68
13	04 07	947	08 17	645	302	07 04	42.8	23 56	12.3	30.5	04 05	824	08 16	554	270
14	11 06	938	09 35	438	500	10 19	48.2	09 28	-8.6	56.8	00 01	790	10 07	434	356
15	01 19	946	10 36	767	179	16 37	39.3	02 12	15.8	23.5	02 26	823	10 30	602	221
16	08 10	930	09 07	837	93	07 11	36.9	22 16	13.8	23.1	21 48	755	08 56	622	133
17 Q	11 15	920	18 12	870	50	16 30	30.5	22 10	14.0	16.5	22 10	747	09 07	709	38
18 Q	13 15	924	16 48	858	66	08 10	32.5	23 00	14.0	18.5	22 55	745	08 35	662	83
19	23 31	978	21 54	877	101	16 34	28.1	23 08	8.3	19.8	23 09	819	15 06	679	140
20	02 38	1016	22 48	870	146	15 08	36.1	00 15	7.3	28.8	02 27	830	22 48	707	123
21 D	23 18	1144	08 55	203	941	08 42	62.5	08 11	-32.4	94.9	08 04	907	07 08	405	502
22 D	03 21	1425	07 19	326	1099	10 02	82.6	02 35	-121.1	203.7	07 25	953	00 14	429	524
23	01 51	1587	04 19	560	1027	06 18	49.1	05 23	-62.1	111.2	04 33	866	03 57	282	584
24 D	23 58	1041	10 37	364	677	14 42	66.3	10 42	-1.9	68.2	21 23	823	11 48	392	431
25	00 06	1104	10 34	670	434	04 47	41.3	08 15	-1.8	43.1	03 51	813	08 00	535	278
26	05 32	954	09 22	260	694	09 37	116.4	09 18	-14.6	131.0	09 25	807	(09 46)	(256)	(551)
27	23 50	986	10 40	822	164	04 13	43.7	20 06	10.9	32.8	23 03	868	10 40	606	262
28	22 12	1174	12 42	541	633	12 40	63.0	01 57	4.0	59.0	22 09	915	12 41	444	471
29 D	01 32	1377	07 20	299	1078	06 48	54.2	01 30	-76.0	130.2	10 17	834	(01 24)	(251)	(583)
30	22 17	1080	18 37	799	281	05 28	59.1	23 15	8.4	50.7	23 21	852	05 23	618	234
31	04 04	1129	12 01	485	644	12 19	52.1	08 02	1.6	50.5	05 04	909	12 47	575	334
Mean		1080		632	448		52.4		-10.2	62.6		851		540	311
No. days		31		31	31		31		31	31		31		31	31

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

Table 13 Meanook

H = 12,000  $\gamma$  +

April 1956

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	927	931	935	966	1126	947	854	844	864	906	900	912	916	900	888	880	877	877	885	888	884	895	898	908	909	
2	909	896	897	907	911	908	914	916	916	900	767	776	884	759	891	888	835	833	849	845	849	1015	959	974	883	
3	1014	1037	976	1089	923	1006	1026	1035	978	892	761	830	888	920	896	876	870	873	891	884	891	888	901	900	927	
4	912	919	1010	942	920	939	963	953	896	751	892	893	892	876	880	882	880	872	876	885	877	896	896	907	900	
5	927	915	907	920	930	892	735	849	916	923	923	914	904	884	797	853	888	871	873	892	892	899	892	908	888	
6	922	926	920	912	912	916	920	930	920	927	916	896	826	833	912	916	915	892	876	876	885	881	915	917	903	
7	1190	1172	927	896	901	901	902	916	720	896	924	876	790	815	865	862	899	893	898	898	906	908	920	929	908	
8	912	913	916	909	912	916	920	920	833	870	831	902	854	904	923	915	900	885	869	884	895	898	903	910	896	
9	911	909	908	906	908	916	888	916	914	906	939	931	927	911	930	920	899	884	869	877	890	900	909	916	908	
10	909	912	908	907	912	920	892	814	849	814	517	806	853	931	923	813	876	892	884	873	880	892	902	927	867	
11	920	921	927	924	923	913	915	916	923	920	924	923	920	924	920	920	908	861	827	860	873	899	909	898	907	
12	935	939	908	909	909	915	916	908	908	900	913	866	849	779	904	900	891	391	888	889	882	884	893	904	895	
13 Q	918	925	930	920	916	920	924	906	914	912	885	884	869	921	922	908	892	889	885	876	876	881	893	901	903	
14 Q	915	916	920	920	923	915	912	915	924	925	925	916	901	923	932	926	908	901	890	882	876	877	886	900	910	
15 Q	924	932	924	929	932	927	924	923	924	930	932	935	934	938	935	926	912	904	901	893	892	885	885	909	919	
16	930	930	932	943	970	996	916	927	924	924	931	932	932	935	920	880	833	878	876	892	884	938	1018	1072	930	
17	1111	1076	1151	1145	1079	1050	924	959	923	857	837	901	870	822	760	830	876	879	866	873	912	961	959	930	940	
18	918	896	900	959	974	960	892	866	896	869	775	786	923	916	873	873	906	894	885	890	880	886	951	953	897	
19	965	947	957	1012	1076	1033	979	751	780	906	835	796	822	845	763	835	866	862	902	915	909	891	888	894	893	
20	913	926	945	939	926	921	915	915	915	910	910	912	906	894	877	888	880	872	880	882	891	904	934	951	909	
21 D	941	978	968	999	973	966	945	934	837	898	738	516	888	932	943	931	904	822	736	794	1014	1225	1276	1386	939	
22 D	1162	1205	1336	1281	876	802	176	116	650	418	137	467	820	908	884	845	837	849	873	904	921	963	1020	1029	812	
23	908	912	963	918	870	869	874	880	880	855	849	879	901	904	894	891	880	880	890	890	898	888	880	894	889	
24 Q	891	897	902	916	912	902	899	902	902	902	900	893	894	894	893	894	883	872	871	875	879	884	894	913	894	
25 Q	919	914	918	913	912	910	912	914	920	923	924	926	923	923	908	907	884	874	876	875	886	888	881	902	906	
26	919	907	933	964	949	951	951	838	813	937	821	591	727	922	908	903	895	884	883	848	899	991	1165	1344	914	
27 D	1453	1032	811	962	1046	786	552	403	534	681	402	360	244	407	291	278	576	684	908	1025	973	1079	1158	1261	746	
28 D	1238	1237	1132	991	661	1003	930	895	953	871	845	849	825	907	908	906	904	890	894	893	928	950	1004	1281	954	
29	1099	1237	1439	1208	1004	928	468	661	490	746	717	829	840	929	930	926	918	911	898	900	889	889	899	932	904	
30 D	962	937	995	1100	995	1110	966	847	844	869	829	731	849	931	875	926	933	875	875	898	919	883	914	937	917	
31																										
Mean	982	973	973	974	939	935	863	849	855	865	813	821	852	876	872	870	878	871	876	885	898	924	947	980	899	

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

Table 14 Meanook

D = 24° E + ...'

April 1956

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	11.4	10.0	11.9	19.3	13.9	24.7	18.3	17.7	25.7	23.7	25.2	21.7	23.2	25.2	29.1	28.6	29.6	25.7	19.3	18.3	17.8	15.4	15.4	15.9	20.3	
2	12.9	13.9	16.0	16.7	17.8	19.9	20.7	20.7	20.3	28.6	35.5	35.5	26.5	22.7	28.6	32.0	26.6	15.0	17.8	15.9	17.7	18.8	13.4	09.6	21.0	
3	06.9	04.6	05.6	19.3	11.9	13.9	13.4	17.3	20.3	23.7	20.7	27.1	26.6	32.0	33.5	34.0	31.5	22.7	19.8	18.8	16.8	16.1	16.3	16.3	19.6	
4	14.4	15.0	16.9	17.3	20.3	18.0	20.7	22.7	21.2	08.5	24.7	28.5	26.2	26.1	25.7	27.5	29.6	27.5	23.7	21.2	20.2	18.8	18.2	17.8	21.3	
5	16.8	17.8	20.8	18.8	27.3	21.2	07.5	21.2	26.6	22.2	23.3	24.7	24.7	26.5	23.7	23.6	28.6	25.2	23.7	15.9	17.8	15.9	15.8	17.0	21.1	
6	18.8	20.3	20.7	21.2	21.1	19.8	20.7	23.2	27.1	23.6	21.8	22.7	25.7	34.4	29.8	28.7	29.6	29.5	25.7	22.7	19.7	15.4	15.9	16.3	23.1	
7	16.8	25.2	18.3	18.8	19.8	20.7	23.7	23.7	13.9	19.8	24.7	21.6	16.8	24.8	29.9	28.1	28.1	27.0	22.8	19.8	20.7	19.3	19.3	18.8	21.8	
8	21.1	21.6	23.8	24.0	22.2	19.7	19.7	20.7	16.8	17.8	23.8	27.0	27.1	29.1	30.5	31.4	31.5	27.7	23.6	15.4	12.9	14.4	16.8	19.8	22.4	
9	21.7	22.7	21.8	21.6	20.3	19.3	27.7	20.7	21.8	25.7	25.7	23.2	25.7	28.6	32.5	33.5	22.6	28.7	24.6	14.9	15.9	14.0	16.3	17.9	22.8	
10	19.8	20.3	19.8	20.3	19.8	19.8	24.7	17.0	33.5	26.2	22.8	38.4	36.5	30.5	31.5	23.6	33.5	31.4	25.7	30.5	18.8	18.7	19.3	18.8	25.0	
11	18.8	19.8	20.7	19.8	20.4	19.7	21.2	22.7	21.8	22.7	22.7	22.7	22.6	29.6	33.5	35.0	34.5	36.9	31.5	13.9	16.7	18.8	18.3	18.9	23.5	
12	19.8	21.2	22.3	19.9	20.7	20.8	20.7	32.8	20.3	23.8	26.6	20.7	18.3	23.8	31.5	32.5	31.6	30.5	26.7	24.6	20.7	19.8	18.3	17.7	23.6	
13 Q	16.8	17.8	18.7	20.7	22.1	19.8	23.7	21.2	24.7	22.7	22.3	22.7	24.8	30.2	31.0	30.5	29.6	28.3	23.7	21.2	18.8	16.9	17.3	17.9	22.6	
14 Q	17.8	18.8	18.8	18.9	19.9	21.7	23.7	22.6	21.8	22.1	21.2	17.8	18.7	24.7	30.1	30.5	30.5	26.7	24.8	25.0	19.8	17.8	14.9	14.8	21.8	
15 Q	15.0	16.9	17.9	18.9	19.8	23.3	20.7	21.2	21.7	21.7	21.6	21.7	23.8	25.7	28.6	31.5	33.5	28.1	28.7	18.3	16.9	14.9	14.0	14.0	21.6	
16	14.0	15.9	18.3	20.3	20.7	18.0	22.7	25.7	21.8	21.7	22.7	21.2	20.7	22.7	28.1	33.5	31.5	22.7	21.8	26.1	22.2	19.8	18.9	19.3	22.1	
17	22.7	22.6	17.8	13.9	20.7	22.6	19.3	19.8	19.3	33.4	31.0	26.9	25.7	30.1	27.6	26.6	27.6	30.3	25.2	17.8	18.8	21.4	16.3	13.4	23.0	
18	14.7	15.9	19.5	18.1	26.6	22.7	23.0	32.4	23.6	19.1	17.7	26.1	26.5	28.7	32.0	29.1	27.1	27.4	24.6	23.2	19.0	16.7	15.0	14.4	22.6	
19	13.9	14.2	13.2	13.2	09.0	20.7	19.8	-5.2	22.7	22.2	21.4	23.7	28.9	31.7	28.6	26.9	26.6	16.8	15.9	17.1	20.7	21.2	20.5	19.3	19.3	
20	18.7	17.8	19.9	17.8	18.7	17.1	17.8	18.9	19.7	21.7	22.6	25.4	27.6	28.9	28.6	30.3	30.1	27.7	24.7	20.7	16.3	12.9	12.9	11.9	21.2	
21 D	12.9	14.4	11.4	16.8	15.9	19.1	17.8	16.3	08.9	23.7	22.7	61.9	32.6	32.6	34.8	35.0	35.5	40.3	41.3	45.1	34.5	43.3	35.0	23.7	28.2	
22 D	10.9	08.0	42.3	28.2	47.7	27.7	24.9	24.9	17.8	54.1	41.4	34.6	39.1	35.5	38.4	37.4	37.4	32.6	29.3	25.3	20.8	19.1	18.3	16.3	17.5	
23	17.5	16.3	18.2	18.8	19.8	20.5	22.0	20.5	20.7	20.1	27.1	22.7	26.8	28.3	29.1	30.5	29.6	27.6	25.7	23.8	20.5	18.5	18.7	18.3	22.6	
24 Q	18.5	18.5	20.3	20.7	19.5	18.3	19.8	20.5	21.2	21.6	23.4	24.5	26.7	30.8	32.2	32.0	30.6	27.4	20.7	18.0	15.3	15.9	15.7	16.8	22.0	
25 Q	14.2	16.3	20.8	19.3	19.5	19.6	19.5	19.1	19.8	20.5	21.5	23.0	27.9	32.5	33.6	33.9	29.5	25.1	16.3	16.3	12.4	09.5	08.9	12.4	20.5	
26	15.1	16.4	17.7	20.3	32.5	20.9	20.9	18.3	28.6	22.6	22.2	18.3	31.5	33.6	35.7	36.9	36.9	32.5	22.8	13.8	14.9	21.7	23.2	07.9	23.6	
27 D	20.7	13.1	68.3	70.8	37.3	04.8	12.1	17.2	08.0	34.5	06.5	33.4	44.9	49.5	26.9	36.9	35.7	39.4	39.3	36.4	25.7	36.4	39.3	21.2	11.2	
28 D	11.3	08.2	10.5	03.7	05.9	16.0	13.9	10.8	26.3	23.6	24.2	22.8	28.7	34.4	36.5	38.4	38.8	38.6	36.4	27.1	19.1	12.9	06.0	06.5	20.9	
29	09.0	07.7	01.8	15.9	04.0	05.9	22.2	14.8	13.3	08.4	30.4	19.9	24.2	35.5	38.8	38.4	32.1	26.6	24.2	20.8	17.8	16.8	17.6	17.3	17.9	
30 D	20.3	22.1	13.9	14.4	16.7	14.3	13.9	13.1	19.0	29.3	25.2	28.6	29.0	29.4	47.2	44.2	39.8	36.9	26.5	21.8	21.6	17.7	19.4	22.2	24.4	
31																										
Mean	14.7	15.6	12.1	13.7	14.7	16.8	19.1	17.6	20.9	23.6	24.1	26.3	26.9	29.9	31.6	32.0	31.3	28.8	25.2	21.7	19.0	18.6	17.8	16.4	21.6	

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

Table 15 Meanook

Z = 58,000  $\gamma$  +

April 1956

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	780	791	796	790	753	715	742	661	651	726	725	727	759	758	738	736	732	747	749	753	759	769	770	770	746	
2	775	760	748	748	748	748	748	748	747	727	585	598	683	673	683	710	706	705	745	760	780	866	823	803	734	
3	732	758	866	747	725	786	735	721	721	760	716	660	714	732	726	716	726	728	737	738	741	747	748	748	739	
4	753	764	764	752	768	770	779	781	749	597	694	725	737	732	747	732	737	738	742	749	755	755	748	748	742	
5	753	754	759	759	737	695	656	656	699	724	732	727	729	712	672	679	713	725	725	748	752	754	747	742	723	
6	738	737	747	740	737	742	739	736	705	725	721	673	608	565	683	715	726	730	736	744	753	753	759	753	719	
7	813	802	790	737	742	746	737	730	591	682	726	694	634	645	695	737	741	742	748	748	755	748	748	751	728	
8	745	745	748	746	742	733	735	730	513	650	621	699	683	715	725	732	732	730	726	738	747	748	746	742	716	
9	737	733	735	739	734	740	705	714	725	682	726	729	735	725	732	732	732	727	732	737	738	753	749	737	730	
10	732	732	732	732	732	732	721	652	650	641	583	586	642	699	729	637	686	718	726	738	747	749	747	751	700	
11	742	729	733	732	748	742	737	734	726	721	725	726	725	727	719	726	732	727	736	737	759	764	754	744	735	
12	767	784	765	747	735	735	725	688	667	651	682	706	693	630	694	708	709	725	716	720	727	733	732	732	716	
13 Q	735	730	737	750	757	738	715	683	709	716	695	674	708	721	725	725	721	716	714	715	725	721	719	716	719	
14 Q	719	721	719	719	719	726	729	725	720	715	710	687	681	694	725	725	727	726	726	726	727	732	736	732	719	
15 Q	739	742	737	737	737	760	742	737	732	726	724	716	728	726	726	727	727	724	726	736	736	737	738	738	733	
16	742	733	734	742	786	792	705	736	725	710	712	715	725	720	702	705	678	693	710	742	770	826	859	864	743	
17	814	803	813	747	732	739	715	766	764	705	695	727	714	697	691	719	726	739	742	742	755	812	786	774	746	
18	781	766	755	788	793	789	710	634	729	716	688	656	745	749	734	734	745	748	748	755	764	759	786	809	745	
19	818	799	807	796	772	809	767	678	678	728	708	651	661	667	611	651	699	736	758	753	750	750	751	759	732	
20	764	762	770	769	753	750	755	746	740	729	729	732	732	727	712	719	721	718	715	726	748	769	786	796	744	
21 D	799	794	799	824	820	796	766	750	570	691	672	618	737	748	735	737	732	738	732	766	881	833	732	759	751	
22 D	796	708	274	563	537	688	357	729	869	899	863	857	715	748	764	759	756	761	773	786	792	806	846	837	728	
23	802	798	809	787	759	749	739	737	736	719	683	699	732	753	753	749	749	747	740	738	740	741	749	751	748	
24 Q	751	749	746	751	753	753	740	740	740	739	736	736	737	739	735	735	735	736	734	734	733	733	742	761	741	
25 Q	762	774	768	750	749	744	742	740	740	739	734	739	733	733	725	723	723	721	723	729	738	738	742	748	740	
26	754	752	759	802	790	796	745	745	745	751	721	788	736	739	737	736	728	726	732	722	758	773	817	723	753	
27 D	(343	310	304)	510	505	550	721	972	926	887	915	775	699	660	618	678	669	710	823	818	787	841	840	775	693	
28 D	578	543	(238)	383	535	769	761	747	766	774	775	753	752	780	786	783	778	761	761	755	758	764	780	803	704	
29	707	695	408	701	747	750	701	591	546	681	732	794	769	765	755	763	760	765	762	760	753	754	759	782	717	
30 D	812	808	813	725	685	580	648	645	752	755	799	790	710	750	716	728	750	750	764	795	791	775	786	784	746	
31																										
Mean	743	736	706	727	728	739	717	722	711	722	718	712	712	714	716	722	726	732	740	747	757	767	768	764	731	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16 Meanook

April 1956

Day	Horizontal Intensity						Declination					Vertical Intensity										
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +		Range	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +							
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.		m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1	04	41	1261	06	56	587	674	05	24	39.3	05	10	-19.3	58.6	07	05	861	04	34	336	525	
2	21	43	1084	10	29	686	398	10	06	46.6	23	57	5.1	41.5	21	43	883	10	25	513	370	
3	03	15	1158	10	49	736	422	03	45	57.5	01	17	-1.8	59.3	02	56	913	03	50	316	597	
4	02	47	1131	09	43	656	475	02	56	43.1	09	35	-1.9	45.0	03	53	831	09	38	503	328	
5	04	30	963	06	39	598	365	04	30	37.3	06	30	-9.6	46.9	04	23	766	06	51	548	218	
6	23	58	1017	13	21	760	257	13	55	48.1	23	59	7.5	40.6	22	32	775	13	14	505	270	
7	00	39	1342	08	35	568	774	01	05	56.0	08	40	-8.2	64.2	00	28	884	12	10	505	379	
8	13	57	933	08	44	712	221	14	55	34.5	08	36	3.5	31.0	03	11	758	09	41	243	515	
9	07	46	950	07	00	782	168	06	25	42.3	06	56	-6.7	49.0	05	56	754	06	55	572	182	
10	23	52	974	10	19	371	603	10	19	50.1	10	47	-1.8	51.9	06	30	746	07	02	485	261	
11	22	54	943	18	48	784	159	17	18	41.6	19	07	8.7	32.9	21	16	782	14	33	706	76	
12	00	15	991	13	25	713	278	07	15	49.3	12	38	14.0	35.3	01	45	798	13	26	576	222	
13 Q	01	07	946	09	50	861	85	14	30	32.6	07	10	13.9	18.7	04	00	759	07	04	618	141	
14 Q	13	55	943	21	43	856	77	15	30	31.6	23	45	13.8	17.8	22	08	741	12	58	659	82	
15 Q	01	16	951	21	55	873	78	16	36	37.0	19	34	12.9	24.1	05	22	777	18	01	711	66	
16	23	33	1083	16	20	806	280	15	45	37.8	06	05	-0.7	38.5	23	02	881	06	28	613	268	
17	02	17	1241	14	35	736	505	09	30	49.1	04	20	0.8	48.3	00	06	867	03	58	592	275	
18	04	06	1072	10	30	603	409	04	06	41.3	06	29	2.5	38.8	04	03	872	07	35	516	356	
19	04	17	1154	07	54	498	656	06	50	40.8	07	55	-27.3	68.1	04	45	908	07	40	529	379	
20	02	41	1011	17	50	861	150	15	58	31.5	23	50	9.0	22.5	23	59	813	14	22	706	107	
21 D	23	11	1456	07	37	354	1102	10	23	87.9	08	35	-8.8	96.7	03	56	858	11	20	496	362	
22 D	02	46	1598	06	54	-451	2049	09	38	110.2	02	46	-106.3	216.5	11	50	1194	(02 40)	(-286)	(1480)		
23	02	34	1033	10	02	781	252	10	18	36.3	01	43	12.4	23.9	02	30	831	10	16	647	184	
24 Q	01	17	927	18	27	861	66	15	20	33.0	20	30	14.4	18.6	23	32	772	12	05	729	43	
25 Q	11	38	947	18	28	869	78	15	24	35.5	21	59	5.6	29.9	01	53	799	17	23	711	88	
26	23	38	1483	11	51	383	1100	11	59	54.0	11	49	-13.6	67.6	11	40	864	23	55	481	383	
27 D	00	37	1643	06	59	-396	2039	12	50	92.1	(02 41)	(-115.9)	(208.0)	10	15	1295						
28 D	23	33	1449	04	50	168	1281	00	42	64.6	00	47	-104.7	169.3	05	15	969	02	21	130	839	
29	02	19	1635	06	16	158	1477	05	53	46.7	07	35	-61.5	108.2	09	53	891	(07 15)	(179)	(712)		
30 D	03	26	1318	11	00	620	698	14	39	66.8	07	30	-31.6	98.4	02	06	894	03	30	364	530	
31																						
Mean			1155			582	573			49.1			-13.2	62.3			843			490	353	
No. days			30			30	30			30			30	30			29			29	29	

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

Table 17 Meanook

H = 12,000  $\gamma$  +

May 1956

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	944	926	950	937	998	936	888	764	690	532	530	488	696	861	908	898	901	853	906	911	899	903	911	919	840	
2 Q	914	915	910	914	915	913	915	922	910	900	914	911	910	907	907	907	899	891	883	876	875	891	899	900	904	
3	919	936	929	922	919	919	917	919	922	919	844	848	891	915	929	930	915	899	883	907	908	896	893	907	908	
4	907	924	926	920	926	924	923	924	928	926	884	919	844	762	706	894	915	906	892	895	905	911	913	950	897	
5	937	921	914	907	914	915	936	912	932	915	782	710	908	947	942	929	906	876	878	915	896	911	930	922	902	
6	939	933	937	891	934	914	916	911	883	732	907	919	923	895	887	858	879	883	897	903	905	911	934	930	901	
7	937	933	937	931	919	919	915	911	891	903	908	905	875	929	927	926	911	895	879	884	869	908	908	923	910	
8 Q	915	915	920	914	907	911	915	922	923	919	919	924	930	937	924	895	883	872	879	887	895	910	920	919	911	
9 Q	910	916	929	922	915	920	920	929	925	926	929	931	942	942	934	919	907	893	884	899	911	911	911	915	918	
10 Q	919	926	915	923	916	916	925	923	925	931	931	931	937	937	931	923	912	907	889	898	897	906	916	923	919	
11 Q	937	945	925	915	911	914	919	922	923	922	922	923	926	928	923	914	899	895	907	919	919	915	916	939	920	
12	952	971	939	922	981	976	1009	966	945	861	739	664	813	659	519	759	845	915	922	914	950	966	958	981	880	
13	981	951	953	1063	1072	1173	1036	641	262	435	318	358	462	560	799	839	907	936	926	916	915	898	916	981	804	
14	915	915	916	905	923	903	907	883	754	432	699	618	664	766	805	850	891	872	848	891	915	952	976	958	840	
15 D	1002	1041	1085	1157	937	796	713	382	681	476	355	244	364	475	664	710	749	856	968	976	997	1035	1092	1003	782	
16 D	1207	1279	1259	1027	872	561	045	809	724	553	553	617	179	133	119	449	556	705	864	875	955	1101	1392	1360	758	
17 D	1330	1302	1221	774	915	305	710	713	574	361	399	374	360	197	518	848	923	942	927	930	927	919	947	946	765	
18	934	969	951	1020	958	879	770	739	558	861	883	910	926	919	914	892	883	901	916	915	907	911	930	936	891	
19	914	919	919	910	899	908	912	922	890	613	699	883	937	930	907	907	895	883	875	882	898	885	892	906	883	
20	903	908	955	950	926	903	907	887	900	851	652	113	447	938	969	934	924	883	883	881	911	1001	1063	1080	865	
21	1103	1062	1074	1016	917	874	748	605	687	864	901	903	923	922	922	911	891	886	884	884	882	884	895	907	898	
22	926	939	950	931	930	938	836	770	805	527	550	643	605	749	850	890	886	875	907	923	950	928	970	908	841	
23	903	915	907	905	903	909	923	914	914	832	648	777	840	864	754	812	856	887	891	899	905	985	1126	1459	905	
24 D	1389	1290	1266	1063	1039	901	789	684	664	774	288	234	080	284	597	783	947	953	946	731	1085	1344	1451	1427	875	
25 D	1344	1247	1195	1215	1005	950	444	529	700	481	576	660	594	660	831	959	961	950	915	907	923	892	961	1031	872	
26	1064	1171	1028	1028	1053	1016	993	946	923	911	910	911	911	900	895	881	884	883	892	892	913	946	930	958	952	
27	942	924	924	901	909	912	912	911	905	908	915	915	919	915	908	899	891	891	891	891	892	908	910	923	931	911
28	979	1004	1058	1109	949	922	919	910	807	849	910	904	863	897	925	925	914	899	896	897	899	904	915	927	924	
29	941	941	918	910	910	922	918	914	911	922	920	914	922	917	907	920	929	892	856	839	914	983	993	961	920	
30	979	937	905	966	1001	997	941	924	821	930	824	839	908	902	804	859	902	906	878	882	879	922	922	933	907	
31	976	957	941	922	915	910	923	921	922	930	929	933	933	941	941	932	918	910	896	898	896	907	930	957	927	
Mean	996	995	986	961	942	895	853	836	813	771	746	736	756	790	821	869	886	890	895	894	916	943	975	990	882	

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

Table 18 Meanook

D = 24°E + ...'

May 1956

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	21.0	20.8	24.2	26.2	42.8	30.0	38.0	27.9	38.4	28.0	29.6	22.8	29.5	29.6	35.4	34.0	30.5	24.9	23.2	22.6	18.3	18.8	18.8	18.8	27.2	
2 Q	18.3	18.8	19.8	20.5	19.2	21.1	24.7	21.8	20.7	19.8	21.7	23.7	26.7	29.6	31.0	30.6	29.1	27.6	25.1	19.3	15.9	16.3	15.9	16.8	22.2	
3	18.3	19.8	17.3	19.2	27.9	21.7	19.3	19.8	21.1	22.7	16.4	19.9	27.6	35.5	34.4	37.9	36.5	32.0	24.1	20.4	17.4	15.9	14.0	13.9	23.0	
4	15.9	16.9	18.8	19.8	19.7	18.9	18.9	20.4	20.7	23.8	17.9	23.7	27.6	38.4	42.3	33.6	27.8	26.6	23.7	18.9	16.0	15.8	15.8	14.1	22.3	
5	14.8	14.9	20.3	19.5	20.7	20.8	26.0	30.5	23.2	20.7	14.9	25.7	26.6	33.0	32.5	31.5	29.7	30.5	15.4	17.8	13.0	15.9	15.9	16.7	22.1	
6	18.0	19.7	19.6	19.7	20.8	30.5	21.8	18.9	18.3	23.6	27.5	27.6	29.7	28.6	28.6	24.2	25.2	22.5	20.7	17.7	16.3	16.3	15.9	18.3	22.1	
7	19.9	19.3	20.7	29.5	23.7	23.7	21.2	21.2	24.6	21.7	20.8	17.8	20.8	32.5	36.3	35.9	31.9	27.1	22.6	24.7	14.9	14.9	17.1	17.8	23.4	
8 Q	19.5	19.2	19.4	20.7	19.8	19.9	19.8	20.4	21.2	19.1	20.8	24.7	27.8	30.1	34.5	32.5	30.1	23.9	17.8	14.9	13.9	14.5	16.5	18.8	21.7	
9 Q	20.3	20.3	20.7	21.4	21.2	19.8	18.3	18.3	22.2	22.0	21.4	22.8	25.4	27.6	29.6	29.6	29.5	25.2	18.9	14.4	12.0	13.1	14.3	16.9	21.0	
10 Q	18.3	18.8	19.5	19.3	19.8	19.9	20.3	21.2	20.7	21.2	22.4	24.1	25.6	28.1	31.0	30.5	28.6	27.7	22.7	19.8	16.2	13.3	13.1	14.9	21.5	
11 Q	16.4	19.8	24.6	22.1	20.7	19.8	19.8	20.7	19.9	19.3	18.7	20.7	24.2	28.1	30.5	31.2	29.6	25.7	21.2	17.3	16.7	18.3	19.3	18.4	21.8	
12	24.6	22.7	25.7	22.7	28.6	22.7	20.7	18.8	20.3	19.3	17.7	30.5	39.6	43.2	16.8	42.9	40.3	24.7	23.2	18.2	13.4	16.9	08.0	11.9	23.9	
13	13.9	17.8	15.9	12.0	10.5	08.5	24.2	07.5	07.1	40.8	56.0	30.1	36.9	40.3	34.9	33.0	29.6	30.5	26.1	19.3	16.9	16.9	18.8	21.7	23.7	
14	21.2	20.8	21.7	21.2	22.7	20.7	22.2	25.2	20.3	25.6	19.8	22.6	31.1	17.9	23.8	33.0	31.0	29.2	23.2	19.3	14.8	15.9	17.0	17.8	22.4	
15 D	17.7	23.7	20.8	11.9	18.4	23.1	16.8	08.5	19.8	32.5	22.7	21.2	16.9	25.6	23.6	30.5	32.5	31.5	19.8	23.9	26.0	27.4	28.3	24.7	22.8	
16 D	12.1	22.7	29.7	04.0	04.0	00.1	07.2	00.2	12.9	22.7	36.2	30.9	71.8	77.3	64.9	59.4	59.1	42.4	38.4	41.3	37.3	48.2	58.5	47.7	33.9	
17 D	26.6	30.5	32.4	03.8	01.6	07.5	20.3	26.1	29.1	21.7	48.9	31.6	44.3	47.7	29.6	35.9	37.4	30.5	22.8	17.7	18.8	18.8	19.7	19.9	25.6	
18	19.2	19.9	20.7	20.3	20.3	26.5	21.5	20.7	17.8	21.7	20.7	24.2	29.1	31.5	31.9	28.7	25.7	23.1	20.4	17.8	16.8	15.4	17.4	16.8	22.0	
19	18.9	20.8	19.7	20.3	18.9	17.8	20.7	20.7	14.9	59.5	34.5	28.1	28.6	32.0	34.6	36.5	30.0	24.9	18.8	16.3	16.7	14.4	15.4	16.3	24.1	
20	17.5	18.3	19.9	22.2	24.2	19.4	17.7	15.9	19.8	16.8	15.9	45.5	45.5	44.2	40.4	37.9	34.5	33.0	21.7	12.0	13.4	16.8	15.4	12.9	24.2	
21	14.0	11.1	17.9	18.8	21.8	15.8	07.5	12.4	15.8	16.0	19.7	23.7	27.7	30.5	33.5	34.5	33.6	29.6	28.6	21.8	14.9	13.9	14.4	14.9	20.5	
22	15.8	14.4	14.8	18.8	17.9	21.7	21.7	20.3	31.0	27.1	40.3	27.4	38.9	35.0	35.9	34.5	29.5	28.1	23.2	20.2	17.3	16.7	18.3	17.8	24.4	
23	16.3	17.5	18.3	18.7	19.9	20.6	21.2	21.3	20.2	19.1	19.0	29.6	32.4	37.9	28.6	21.7	20.7	18.3	21.2	15.4	18.8	29.1	35.0	23.0		
24 D	13.2	18.8	19.8	01.6	02.7	10.5	02.2	05.1	11.8	17.7	22.7	09.8	26.6	33.5	52.0	42.3	41.3	35.5	27.0	31.0	42.2	55.0	67.3	48.1	25.7	
25 D	14.4	08.0	02.5	55.7	53.2	08.0	04.1	20.3	17.5	23.1	25.7	18.8	39.8	39.3	31.5	32.9	37.4	35.3	26.5	22.7	19.4	15.8	12.8	10.1	14.3	
26	12.9	08.0	10.5	13.0	18.3	18.8	13.9	12.0	19.3	19.9	23.6	25.7	29.6	33.6	36.5	37.3	33.7	32.0	27.1	20.7	13.9	13.0	09.9	13.0	20.7	
27	13.9	16.7	16.9	16.8	17.7	18.8	16.8	19.3	18.2	20.3	20.7	22.6	24.2	27.0	31.4	32.5	31.5	28.2	52.9	19.9	16.8	10.9	08.9	11.4	21.4	
28	12.4	09.6	10.0	23.1	18.8	18.8	17.8	19.8	10.9	15.4	20.4	23.6	23.7	27.5	33.4	31.4	30.1	27.6	25.8	20.7	17.9	16.0	16.8	18.3	20.4	
29	18.1	19.3	19.8	19.3	19.5	19.5	20.7	25.7	25.2	23.4	21.2	24.8	30.1	31.5	34.0	33.0	29.5	31.4	43.4	11.9	09.5	21.7	21.2	19.3	23.9	
30	11.6	17.8	15.9	18.3	20.7	18.7	20.1	20.3	35.2	18.8	20.7	23.7	30.4	31.1	31.2	32.0	29.6	20.3	22.2	17.3	14.9	15.5	14.5	15.9	21.5	
31	17.8	18.8	19.8	20.3	18.5	17.3	16.8	16.8	18.3	19.3	19.4	21.7	26.5	30.1	29.6	29.2	26.1	26.1	23.7	18.4	14.8	12.9	14.4	14.0	20.4	
Mean	17.2	18.2	19.1	15.5	16.9	18.7	17.9	18.3	20.5	23.3	24.8	24.5	31.0	34.0	34.0	34.1	32.0	28.3	24.8	20.0	17.5	18.5	19.4	19.1	22.8	

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

Table 19 Meanook

Z = 58,000  $\gamma$  +

May 1956

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	769	776	796	791	772	694	625	(478)	506	629	681	694	671	701	726	734	746	724	747	753	754	762	760	759	710	
2	Q	748	747	742	746	747	753	742	730	713	695	725	729	737	736	732	732	732	732	729	732	736	740	747	753	736
3		765	768	760	762	748	751	748	737	716	715	657	634	657	699	722	735	732	737	732	737	735	742	744	746	728
4		748	740	740	742	748	748	737	737	735	715	665	694	634	631	660	710	726	735	737	744	747	738	737	742	720
5		748	748	753	748	748	747	741	695	742	726	651	598	697	737	740	730	726	727	737	753	759	766	759	741	730
6		737	735	733	733	742	740	738	737	688	559	705	705	729	727	720	704	713	721	732	732	737	737	746	749	721
7		759	747	759	767	759	748	735	725	700	671	705	706	679	738	732	733	734	732	736	748	765	764	748	746	735
8	C	740	737	732	730	732	732	729	729	728	714	695	715	732	732	730	726	726	722	724	726	732	736	739	738	728
9	C	737	732	734	730	729	730	727	726	714	721	727	732	733	733	733	732	727	724	718	726	735	733	728	728	729
10	Q	732	739	732	732	729	728	729	729	729	729	729	729	729	729	728	726	721	721	715	713	710	714	721	729	726
11	Q	737	747	747	733	726	726	725	721	722	723	722	726	726	726	720	721	721	721	720	729	736	736	738	747	729
12		759	774	767	739	726	779	775	779	624	591	678	603	617	597	537	552	671	749	759	749	765	792	784	796	707
13		791	781	769	824	844	791	705	619	(510)	877	599	533	711	659	602	650	721	760	748	748	758	765	812	722	
14		780	759	742	739	749	758	742	704	608	626	563	575	602	549	570	674	737	736	736	778	790	791	791	782	703
15	D	801	830	835	793	736	640	683	559	659	576	821	554	545	661	543	607	662	770	818	840	845	887	887	829	724
16	D	832	746	608	645	591	764	1039	910	964	833	742	885	932	846	796	807	705	726	759	856	861	886	759	640	797
17	D	574	685	577	494	673	845	804	803	1012	887	899	932	380	580	479	678	758	775	767	770	765	768	786	796	729
18		792	800	786	813	796	726	699	667	714	683	706	737	768	759	748	747	737	738	739	742	758	767	780	780	749
19		769	764	760	759	752	747	742	737	705	542	575	684	749	753	738	732	737	741	742	747	758	759	759	758	729
20		750	750	764	780	790	752	725	695	710	730	652	803	724	738	760	742	738	714	738	737	742	829	812	814	750
21		817	848	802	715	656	735	742	715	704	708	727	742	759	748	749	749	753	751	738	737	737	738	746	748	743
22		753	752	760	780	758	727	510	466	591	786	803	813	597	604	639	688	713	715	753	767	781	742	768	744	709
23		735	732	736	736	738	738	739	742	725	648	651	608	651	669	580	586	653	688	710	732	736	759	845	742	703
24	D	672	591	478	694	753	690	737	914	875	780	563	413	647	716	753	670	747	791	806	813	828	694	553	593	699
25	D	507	559	611	425	600	765	895	978	844	796	789	821	821	664	620	761	774	755	753	753	767	764	783	815	734
26		807	809	818	857	812	802	747	753	753	761	761	759	759	750	745	737	737	732	733	744	753	780	780	796	770
27		775	773	768	753	758	752	751	742	732	732	741	747	751	753	753	753	749	747	732	729	737	748	753	769	750
28		816	827	834	792	773	768	741	723	618	678	713	725	708	710	734	735	734	734	732	735	741	746	747	748	742
29		747	748	742	737	737	742	748	720	720	732	730	722	722	715	695	699	719	714	722	730	763	801	856	842	742
30		805	798	763	783	781	745	729	732	686	719	654	674	710	709	654	694	678	710	747	748	748	770	776	768	732
31		784	775	774	775	751	742	742	738	739	740	740	742	742	742	742	738	736	736	742	732	732	740	758	770	748
Mean		751	752	739	737	740	745	741	724	716	710	702	701	697	704	690	709	725	735	742	751	758	764	763	759	732

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20 Meanook

May 1956

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	04	34	1161	11	51	435	04	42	81.5	11	42	-37.1	118.6	11	36	1028	(08 30)	(386)	(642)		
2 Q	13	55	949	10	55	791	06	30	35.8	07	02	12.8	23.0	05	46	765	08	03	656	109	
3	01	40	946	10	56	789	16	03	39.8	22	56	13.0	26.8	00	58	774	10	55	606	168	
4	23	57	1005	13	36	700	13	36	52.1	10	24	4.1	48.0	23	52	768	10	37	585	183	
5	00	39	992	11	03	529	17	43	47.7	11	08	-1.2	48.9	21	56	776	11	56	522	254	
6	22	56	973	09	38	623	05	33	37.6	08	26	12.8	24.8	05	21	760	09	40	469	291	
7	02	00	981	12	07	809	12	41	38.7	12	10	8.9	29.8	03	07	777	12	07	610	167	
8 Q	13	10	950	17	54	861	14	13	36.5	09	50	10.9	25.6	22	50	745	09	59	656	89	
9 Q	02	43	945	18	39	882	15	01	31.1	10	13	10.1	21.0	20	51	739	08	51	704	35	
10 Q	12	43	944	18	40	880	14	32	31.7	21	50	12.8	18.9	01	20	739	20	00	706	33	
11 Q	23	56	1037	17	06	889	14	31	36.4	00	01	15.4	21.0	23	59	774	15	18	713	61	
12	04	42	1049	14	24	354	15	05	67.8	11	03	-3.8	71.6	22	55	812	15	00	410	402	
13	05	50	1324	08	53	-77	1401	10	24	120.1	05	04	-60.7	180.8	09	54	1092	10	48	226	866
14	22	24	997	09	52	251	746	09	46	58.6	10	05	-15.4	74.0	10	00	1016	08	59	464	552
15 D	03	08	1234	11	59	-204	1438	(11 52	142.7)	12	07	-97.4	(240.1)	10	04	1068	11	48	300	768	
16 D	01	10	1429	06	25	-441	1870	(06 46	142.6)	06	29	-144.1	(286.7)	12	41	1613	04	23	254	1359	
17 D	00	56	1494	13	37	280	1214	13	31	98.2	03	05	-102.7	200.9	08	42	1162	13	23	260	902
18	03	46	1054	08	39	347	707	08	42	39.4	08	20	-10.6	50.0	03	59	841	07	49	523	318
19	01	03	997	09	56	511	486	09	35	78.6	08	35	12.5	66.1	01	01	770	09	32	455	315
20	23	56	1169	11	32	-306	1475	11	58	126.1	11	22	-38.6	164.7	11	22	1196	12	02	506	690
21	04	00	1191	08	04	406	785	04	30	47.6	03	26	-16.4	64.0	01	45	872	06	57	485	387
22	22	34	1000	09	29	283	717	10	11	82.1	06	44	-23.6	105.7	09	44	969	06	35	320	649
23	23	23	1546	09	59	607	939	22	58	57.5	09	30	9.0	48.5	22	54	918	14	54	513	405
24 D	21	51	1576	12	06	-247	1823	11	50	(216.3)	03	00	-58.4	274.7	13	57	1040	11	17	151	889
25 D	00	27	1519	05	50	-208	1727	09	02	117.1	02	36	-27.4	144.5	06	14	1403	00	20	-74	1477
26	01	22	1384	15	22	872	512	14	58	38.5	01	20	-15.7	54.2	03	20	867	06	52	714	153
27	00	15	968	18	05	875	93	16	19	34.3	22	40	6.5	27.8	00	01	800	09	15	724	76
28	03	38	1227	08	34	766	461	03	39	39.0	01	58	3.1	35.9	02	04	854	08	30	594	260
29	22	43	1034	19	38	810	224	18	17	49.3	20	13	-0.3	49.6	22	45	873	14	35	697	176
30	03	58	1053	07	33	709	344	08	24	49.4	22	10	13.3	36.1	00	43	818	14	50	593	225
31	00	21	994	18	50	890	104	15	31	32.3	23	50	10.9	21.4	00	23	792	16	33	726	66
Mean			1133			473	660			68.0			-16.0	84.0			917			499	418
No. days			31			31	31			31			31	31			31			31	31

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

Table 21 Meanook

H = 12,000  $\gamma$  +

June 1956

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	984	1070	1012	1004	1007	890	842	756	694	636	757	772	769	860	843	827	878	906	905	936	941	954	930	961	881	
2	930	918	921	938	980	937	835	882	936	933	929	936	910	915	844	927	918	907	904	900	898	907	913	922	914	
3 Q	962	943	933	919	920	919	922	922	923	925	918	911	918	925	949	935	914	921	923	916	911	914	944	906	925	
4	938	945	913	929	927	925	927	923	917	890	926	912	853	902	928	926	925	925	937	910	907	909	933	951	920	
5	941	945	925	944	925	929	933	891	899	939	933	922	905	932	941	937	909	921	913	919	922	930	943	945	927	
6	935	928	929	925	927	943	929	933	898	882	938	902	922	890	842	903	925	928	905	906	919	933	935	953	918	
7 Q	954	938	941	946	935	930	931	922	918	935	930	936	933	929	938	925	910	886	894	891	912	910	921	929	925	
8	933	963	938	907	926	912	917	914	863	808	805	902	942	938	934	903	922	917	914	887	896	946	957	922	911	
9	964	938	933	931	922	938	806	249	852	844	892	949	954	941	926	929	899	891	883	894	899	902	922	946	884	
10	985	935	932	925	916	932	929	917	918	907	880	888	922	934	930	923	891	860	871	881	883	916	923	955	915	
11	957	1016	986	1011	975	927	886	590	507	800	905	899	820	812	878	922	891	919	902	896	896	885	908	934	880	
12	982	997	983	925	934	930	919	921	858	852	880	905	897	894	911	927	934	911	910	902	903	903	926	947	919	
13	1021	969	947	942	936	910	914	905	897	894	878	781	844	879	863	886	902	905	900	887	926	919	1001	935	910	
14	989	949	997	962	926	935	919	922	891	704	832	905	797	744	824	872	916	902	895	903	908	950	935	939	896	
15 D	1007	1005	1024	1040	974	967	841	693	824	826	852	703	844	910	903	912	914	917	922	910	930	910	973	1059	911	
16	973	957	910	919	941	927	910	895	781	803	863	871	758	907	918	919	896	899	874	888	903	903	914	932	894	
17	911	911	911	927	933	917	911	911	910	916	919	926	921	911	902	884	877	903	903	918	936	917	947	942	915	
18 Q	974	980	954	904	911	913	911	915	909	911	888	907	900	891	884	884	878	872	874	869	888	914	910	928	907	
19 Q	902	903	900	899	908	917	918	908	838	910	919	921	924	938	921	899	888	869	853	860	873	880	927	892	899	
20 Q	920	939	930	931	927	914	919	916	914	910	875	915	915	915	914	893	881	864	845	862	879	918	947	985	910	
21	1017	1068	966	900	892	932	947	917	913	904	908	924	934	924	919	904	896	875	867	864	907	930	915	924	923	
22	947	1005	1045	972	969	956	947	942	907	907	896	908	915	916	903	876	876	881	880	891	900	916	911	923	925	
23	935	905	899	922	932	919	915	915	915	916	911	888	911	916	922	916	901	895	870	875	934	1066	1408	1171	948	
24 D	1078	1122	1128	1081	853	791	890	921	881	751	715	621	829	813	601	583	636	868	923	901	897	916	1033	1145	874	
25 D	1306	1428	1465	1356	947	765	123	594	846	890	763	755	887	909	905	899	837	834	869	888	891	912	924	930	913	
26	931	910	914	907	925	928	857	745	748	759	794	517	331	777	875	820	840	878	920	899	903	932	928	928	832	
27	946	921	943	1059	986	905	922	854	683	585	558	604	748	878	903	902	955	927	920	903	916	909	910	907	864	
28	908	920	923	938	926	939	925	738	602	891	934	915	861	911	943	931	938	928	911	908	908	899	899	928	897	
29	943	932	925	917	932	929	929	851	745	755	433	715	914	963	968	961	935	913	883	902	912	936	933	927	881	
30 D	927	941	914	935	986	1013	914	845	800	823	797	723	727	869	795	791	876	922	924	903	894	936	951	986	883	
31																										
Mean	970	977	968	960	937	920	880	840	840	847	848	844	857	895	891	891	892	898	896	896	906	922	951	955	903	

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

Table 22 Meanook

D = 24°E + ...'

June 1956

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	12.4	12.9	13.9	19.3	19.8	15.8	10.9	13.9	22.7	19.9	21.7	17.8	24.7	34.5	36.5	33.0	25.7	27.1	22.4	25.0	21.7	19.8	16.8	17.7	21.1	
2	17.7	16.8	17.8	18.3	30.5	30.9	29.7	25.2	21.8	18.8	18.8	25.1	23.7	26.1	26.7	29.6	27.6	22.7	16.9	18.8	18.9	17.5	15.9	14.0	22.1	
3 Q	16.9	20.7	22.9	19.5	17.3	18.8	21.2	23.2	20.4	18.5	18.8	19.8	25.2	29.7	31.1	27.6	30.5	24.6	23.8	21.7	18.0	16.7	16.9	16.0	21.7	
4	18.1	19.9	20.7	20.7	20.3	17.7	16.4	18.9	22.8	19.7	20.2	20.3	24.6	27.5	31.5	30.5	28.1	24.7	18.9	16.9	12.9	12.4	14.4	16.7	20.6	
5	17.3	20.3	19.7	20.7	18.8	19.8	23.2	25.7	19.9	20.3	20.4	18.7	22.7	32.5	33.0	32.0	27.0	24.8	20.0	12.4	12.9	12.0	11.9	13.9	20.8	
6	16.7	19.8	19.8	18.9	18.8	18.8	18.8	18.8	22.7	10.1	18.8	19.7	26.6	25.7	29.1	28.1	26.7	24.7	21.7	17.9	13.9	14.8	14.9	19.3	20.2	
7 Q	22.7	21.8	22.6	20.3	19.3	18.8	18.8	19.8	25.2	23.8	18.4	20.3	25.6	28.6	20.7	22.2	28.6	28.1	19.8	16.3	16.5	12.4	12.8	15.9	20.8	
8	19.8	23.8	24.7	20.5	21.7	27.7	18.7	18.8	24.7	13.6	22.2	24.7	28.7	33.6	34.0	33.0	30.5	25.7	23.2	22.3	13.9	20.3	23.2	18.7	23.7	
9	18.8	19.8	19.7	23.8	19.8	22.7	23.7	14.0	18.2	20.3	22.2	24.6	27.1	22.8	34.0	33.5	30.5	22.7	20.4	19.8	10.9	11.0	13.4	16.7	20.1	
10	16.9	16.7	15.9	16.3	18.7	16.8	16.8	17.7	20.8	18.3	20.7	23.7	28.1	28.6	35.5	35.9	35.0	25.2	19.9	14.9	10.5	11.1	07.4	10.0	20.1	
11	09.5	15.0	13.9	14.0	10.9	10.9	15.4	03.1	00.1	22.7	22.7	24.6	22.7	26.7	36.5	37.6	38.4	36.4	34.4	22.2	19.7	16.9	15.8	14.0	20.2	
12	20.8	19.7	20.4	16.8	17.9	17.8	25.0	17.8	15.9	15.9	21.7	22.7	25.7	25.7	28.6	32.4	33.6	35.0	31.5	23.2	19.3	15.0	14.8	14.4	22.2	
13	15.9	13.0	15.0	18.1	24.6	17.3	18.3	18.9	18.8	17.7	19.8	09.0	20.7	29.1	26.6	33.5	32.7	28.7	28.7	18.3	16.9	16.8	16.3	15.0	20.4	
14	12.4	12.4	15.8	14.4	14.1	18.1	25.3	20.0	13.9	14.1	16.9	21.6	23.7	18.3	19.8	26.0	31.4	34.0	29.6	20.3	16.7	15.1	12.4	13.9	19.2	
15 D	14.5	19.7	18.8	14.9	20.7	15.8	17.7	10.9	20.8	24.3	15.9	13.9	20.7	27.1	33.0	32.5	28.6	31.5	29.8	23.7	20.3	15.8	15.9	20.7	21.2	
16	18.7	14.9	15.9	15.9	20.6	25.5	18.8	14.3	13.8	13.0	19.7	21.7	14.9	26.6	30.0	29.6	33.0	32.9	31.7	20.3	17.6	14.5	13.6	16.8	20.6	
17	15.0	16.0	17.8	22.4	22.5	22.7	18.6	17.3	17.4	18.8	18.9	18.9	24.2	24.6	30.6	32.7	31.9	30.5	21.7	18.9	23.7	20.0	17.4	15.9	21.6	
18 Q	13.4	17.5	17.3	16.8	15.4	16.8	19.0	16.7	15.9	15.9	12.9	17.3	21.6	24.8	28.2	29.8	30.0	27.7	21.2	17.3	16.2	14.9	14.0	12.9	18.9	
19 Q	15.6	15.9	16.9	17.9	18.0	17.3	16.9	15.4	10.1	18.3	19.8	20.3	22.1	27.7	28.6	30.6	31.0	29.1	22.5	19.1	13.2	10.9	10.5	13.0	19.2	
20 Q	16.2	16.7	17.4	17.8	16.9	16.0	15.9	19.3	16.1	17.6	15.2	13.3	26.0	30.3	31.0	31.2	25.3	24.7	21.7	18.8	16.5	13.9	10.9	10.9	19.2	
21	14.3	15.9	15.8	16.3	15.9	15.8	13.9	15.9	16.0	16.0	18.3	22.7	25.8	28.5	29.1	31.5	33.3	30.5	23.7	16.7	14.6	12.0	08.8	09.5	19.2	
22	11.9	12.6	10.5	15.8	17.0	14.3	15.1	17.9	15.9	16.8	17.7	21.3	23.0	27.5	31.2	32.5	31.0	28.9	25.7	18.2	12.4	10.3	09.1	10.0	18.6	
23	12.9	15.7	16.1	16.8	17.9	16.8	18.8	16.8	16.0	16.0	13.0	20.4	26.1	30.1	32.4	35.0	30.9	33.5	26.8	14.8	28.0	33.7	26.9	22.2		
24 D	06.5	17.6	07.5	14.9	04.2	17.3	18.1	14.0	15.3	11.7	17.7	04.6	20.8	28.2	20.0	30.6	28.3	21.8	23.8	16.9	20.3	17.7	20.0	16.8	16.9	
25 D	26.2	12.9	01.3	19.0	02.6	14.2	17.8	29.7	14.1	18.0	16.8	13.5	21.7	29.7	37.0	37.4	33.8	28.8	24.6	14.7	14.9	16.9	17.5	18.0	18.4	
26	18.4	19.3	20.7	21.5	22.0	21.4	26.1	33.0	24.7	23.8	18.6	19.3	40.3	28.9	31.5	35.0	36.6	32.6	22.7	16.0	12.8	12.7	13.9	16.9	23.7	
27	18.3	17.4	17.5	32.5	31.4	12.9	15.4	16.0	18.1	37.4	26.8	19.3	24.8	28.1	29.8	36.7	31.6	27.0	25.4	17.0	13.2	14.3	12.9	13.8	22.4	
28	16.5	18.3	19.6	20.5	21.9	20.3	22.3	11.9	15.9	22.9	18.9	17.9	22.7	29.6	31.1	31.4	30.9	26.8	22.6	15.7	13.0	10.4	09.8	11.9	20.1	
29	16.3	17.8	20.3	20.2	20.4	24.0	22.6	23.3	28.7	20.8	01.6	16.0	25.0	31.5	35.9	34.9	30.6	28.6	28.3	19.3	14.2	12.8	11.0	13.9	21.6	
30 D	17.0	19.4	18.6	17.8	20.7	19.1	24.1	14.9	16.6	18.8	16.3	24.3	24.7	27.6	25.6	28.1	25.7	25.1	25.4	22.5	17.4	18.3	15.2	18.7	20.9	
31																										
Mean	16.2	17.3	17.1	17.5	18.4	18.7	19.4	17.2	18.1	18.8	18.5	19.0	24.3	27.9	30.2	31.7	30.8	28.1	24.5	19.1	15.9	15.2	14.7	15.4	20.6	

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

Table 23 Meanook

Z = 58,000  $\gamma$  +

June 1956

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	796	861	840	799	806	682	768	781	769	764	740	747	682	694	683	672	706	737	737	753	753	756	747	773	752
2	767	760	742	747	768	708	640	642	727	726	721	732	683	688	618	695	725	725	713	711	712	729	732	732	714
3 Q	758	764	778	745	737	736	736	730	729	725	702	695	714	715	737	732	720	715	716	725	721	729	748	736	731
4	751	751	746	745	746	732	726	714	697	624	695	712	627	643	680	716	720	719	715	721	732	736	737	744	714
5	738	740	732	740	734	742	737	640	637	701	713	710	678	705	721	722	710	715	713	708	713	719	732	734	714
6	732	730	727	723	723	727	727	726	639	613	678	629	678	656	588	660	672	705	722	726	739	749	748	747	698
7 Q	753	742	739	739	734	732	732	721	714	721	715	712	718	709	721	732	726	726	732	730	736	742	742	742	730
8	752	775	786	753	753	751	736	720	693	613	602	682	732	742	737	705	706	724	721	721	738	759	796	796	729
9	786	736	735	753	742	742	630	753	683	630	624	708	748	732	715	718	718	710	714	721	746	751	769	783	723
10	796	765	760	760	754	745	741	726	699	662	640	669	699	732	733	732	720	720	710	719	732	747	763	802	730
11	794	789	783	788	775	749	739	553	442	618	697	706	651	629	681	753	736	725	710	725	748	754	755	768	711
12	790	784	786	774	780	775	753	753	679	684	704	727	726	725	737	747	747	736	736	726	727	735	758	786	745
13	815	775	776	774	742	730	738	705	704	699	684	599	640	656	678	725	737	732	735	736	744	778	829	814	731
14	798	790	813	795	780	769	705	694	688	549	550	674	642	645	672	709	739	742	736	738	749	760	763	774	720
15 D	800	795	780	813	706	748	722	613	645	676	688	586	710	742	742	759	744	748	758	753	754	756	788	829	736
16	790	753	732	737	773	762	751	719	618	617	678	694	613	721	737	733	726	729	746	741	758	748	742	765	724
17	748	740	736	749	747	746	732	722	726	726	734	738	740	735	725	719	710	730	738	726	750	768	784	766	739
18 Q	769	779	762	741	738	740	734	730	721	719	688	710	722	721	723	729	728	726	736	732	739	750	751	753	735
19 Q	741	732	728	725	725	725	726	720	639	698	719	723	720	725	724	720	715	709	708	708	710	716	742	752	719
20 Q	758	746	734	735	730	721	721	726	710	707	656	690	710	710	708	707	708	702	699	700	702	722	744	777	718
21	827	833	779	729	714	732	700	716	722	710	714	725	732	725	719	709	714	712	711	709	720	762	764	752	735
22	759	794	833	793	783	772	763	752	721	711	706	719	730	732	725	709	705	712	723	728	733	744	750	749	744
23	755	740	730	734	747	735	723	721	721	722	713	669	704	720	745	732	725	724	713	734	780	875	813	727	738
24 D	824	753	791	747	694	718	730	734	726	684	577	564	598	597	452	511	565	705	742	740	758	815	894	886	700
25 D	843	708	669	432	747	726	858	834	756	718	706	723	758	764	742	754	708	709	740	747	747	751	769	767	736
26	764	747	752	760	762	756	662	534	560	655	674	770	643	575	678	674	687	713	740	740	746	755	770	789	704
27	779	749	756	812	734	729	750	748	737	667	613	647	643	700	721	720	740	718	723	725	734	732	741	740	723
28	735	750	750	775	758	742	739	570	597	647	718	719	658	698	737	737	745	734	727	729	729	732	733	742	717
29	756	759	763	750	753	758	740	768	467	575	608	700	672	732	750	740	730	729	732	761	751	764	756	753	720
30 D	754	756	744	740	772	694	709	670	612	544	511	558	580	627	626	630	685	735	741	753	756	778	790	783	690
31																									
Mean	774	763	759	747	749	738	729	704	673	670	672	688	685	696	698	710	714	722	726	730	739	754	765	769	724

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24 Meanook

June 1956

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.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1 D	03	28	1160	09	05	507	653	09	40	58.8	05	45	-25.0	83.8	01	41	882	05	16	571	311	
2	04	34	1019	06	58	670	349	05	40	41.2	23	30	13.8	27.4	00	16	781	06	54	509	272	
3 Q	00	19	994	23	12	889	105	13	48	35.8	00	02	14.1	21.7	02	25	788	10	57	671	117	
4	23	28	976	12	48	793	183	15	03	34.6	21	50	11.1	23.5	01	31	760	12	43	561	199	
5	01	05	968	08	04	860	108	15	02	37.8	21	14	9.4	28.4	01	04	750	07	50	540	210	
6	23	20	964	14	28	772	192	15	52	37.7	09	15	3.5	34.2	21	38	759	14	31	500	259	
7 Q	00	11	974	17	34	866	108	15	42	35.3	21	22	10.4	24.9	00	09	760	08	31	699	61	
8	02	00	1001	09	56	504	497	14	24	43.3	09	45	4.1	39.2	02	01	813	09	58	388	425	
9	05	45	1006	07	20	106	900	07	40	56.2	07	15	-53.3	109.5	07	25	976	07	12	408	568	
10	00	22	1065	16	57	829	236	16	30	40.3	22	50	5.1	35.2	00	22	837	10	05	618	219	
11	03	46	1126	08	40	416	710	17	44	42.3	07	22	-43.5	85.8	04	49	831	08	34	384	447	
12	00	55	1042	08	45	778	264	06	10	41.3	09	00	6.0	35.3	00	34	814	08	45	648	166	
13	00	48	1046	11	26	763	283	04	32	38.2	11	40	6.1	32.1	23	05	846	11	16	570	276	
14	00	23	1059	09	27	620	439	06	56	39.0	09	16	-0.7	39.7	02	22	836	10	32	472	364	
15 D	04	06	1228	06	55	194	1034	06	45	43.1	06	54	-40.4	83.5	23	24	867	07	25	459	408	
16	00	01	1019	12	25	681	338	17	44	37.5	08	45	5.7	31.8	00	01	824	08	33	532	292	
17	22	30	963	16	11	856	107	15	58	35.8	00	16	13.6	22.2	22	58	790	16	10	704	86	
18 Q	01	17	1015	18	25	861	154	15	34	32.5	10	26	10.9	21.6	01	08	814	10	24	675	139	
19 Q	23	00	962	08	40	798	164	15	55	33.4	08	25	5.1	28.3	23	02	768	08	40	587	181	
20 Q	23	57	1008	18	33	841	167	13	30	34.1	22	30	9.0	25.1	23	57	809	10	45	610	199	
21	01	27	1084	17	41	849	235	16	15	35.5	06	50	0.1	35.4	01	16	866	06	40	587	279	
22	02	00	1077	16	14	862	215	15	20	39.3	02	12	6.0	33.3	02	30	854	16	15	693	161	
23	22	50	1568	18	40	825	743	22	42	52.0	23	52	7.9	44.1	21	47	936	23	04	633	303	
24 D	23	53	1325	11	04	431	894	15	48	62.9	04	36	-42.0	104.9	22	36	941	14	21	395	546	
25 D	06	32	1532	02	56	-165	1697	06	54	50.1	03	50	-51.2	101.3	06	40	1034	03	50	214	820	
26	21	34	991	12	30	18	973	12	20	94.3	11	19	-0.7	95.0	11	18	908	07	50	403	505	
27	03	41	1143	10	05	286	857	09	53	65.6	11	44	-4.7	70.3	03	34	866	10	00	489	377	
28	03	06	972	08	05	251	721	09	04	34.5	08	01	-52.8	87.3	05	07	786	07	48	381	405	
29	15	02	991	10	51	-24	1015	09	01	59.2	10	39	-38.1	97.3	11	05	807	08	09	336	471	
30 D	05	13	1090	11	54	106	984	11	50	52.0	08	59	3.7	48.3	23	33	812	11	51	297	515	
31																						
Mean			1079			568	511			44.8			-6.9	51.7			837			518	319	
No. days			30			30	30			30			30	30			30			30	30	

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

Table 25 Meanook

H = 12,000  $\gamma$  +

July 1956

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	943	935	911	917	922	919	917	831	802	893	925	917	916	909	818	861	934	907	904	888	903	901	927	940	902	
2	916	932	927	920	930	915	927	851	772	695	880	913	914	838	842	892	918	919	900	905	895	909	885	919	888	
3	935	950	979	964	934	947	916	665	795	791	697	694	727	917	932	930	948	935	916	910	904	899	902	916	879	
4	911	912	923	936	935	920	839	864	776	861	925	920	925	925	928	925	910	895	878	871	885	896	911	921	900	
5	935	935	925	917	917	918	916	918	907	910	905	873	885	916	943	943	911	914	909	904	924	942	913	932	917	
6	929	926	925	942	921	914	914	911	917	927	925	922	916	935	940	929	907	894	893	901	894	896	905	912	916	
7 Q	925	928	927	925	920	917	915	917	922	925	931	935	938	935	926	915	911	911	910	916	925	930	927	925	923	
8	928	1003	944	972	979	1002	966	937	943	917	955	934	948	954	948	938	918	896	886	893	901	893	910	996	940	
9	989	962	943	923	993	940	916	891	646	851	918	899	853	911	920	917	902	903	908	917	905	908	921	917	906	
10	903	913	916	907	920	913	917	917	921	914	914	917	926	920	920	922	913	903	873	888	898	932	932	959	915	
11	972	978	1013	1005	950	920	916	838	892	913	908	903	901	902	935	917	904	911	916	896	872	905	881	907	919	
12	928	926	925	936	955	977	933	854	874	896	909	913	900	888	907	915	914	914	902	893	881	880	889	953	911	
13 D	987	987	986	940	911	917	912	900	892	815	825	878	911	918	938	881	854	853	880	937	1035	1042	1043	1098	931	
14	1192	1017	959	889	911	911	909	889	895	904	902	911	900	903	896	886	870	891	890	885	887	908	926	917	919	
15	914	917	913	912	914	925	911	908	910	903	914	924	909	917	908	925	904	897	885	878	893	907	912	932	910	
16	932	916	975	960	919	926	911	916	909	910	903	914	912	921	914	891	885	879	865	866	886	893	891	900	908	
17 Q	909	918	920	921	926	927	915	918	921	921	911	931	926	929	924	914	904	897	885	884	892	907	911	938	915	
18 Q	934	932	912	920	917	914	919	919	922	921	921	920	919	909	904	899	890	876	870	896	915	932	950	925	914	
19	925	925	932	893	908	918	926	925	922	919	920	926	932	917	909	914	886	872	893	907	896	932	958	984	918	
20	1019	956	957	966	939	923	934	910	914	887	885	885	864	894	885	887	884	861	871	870	882	885	926	929	909	
21 Q	901	911	915	904	908	905	909	911	911	911	911	908	904	893	899	910	895	889	901	920	915	918	925	925	908	
22 Q	934	953	947	943	937	935	937	940	940	940	934	931	934	942	943	935	921	914	878	873	881	885	897	909	924	
23	927	947	955	923	925	925	925	932	932	929	929	932	931	926	922	908	912	888	889	943	957	983	1080	1086	942	
24 D	919	893	889	893	855	860	769	748	763	656	769	925	954	947	962	935	934	938	919	917	908	901	896	926	878	
25 D	901	920	960	958	933	943	652	831	739	558	085	262	434	428	609	869	932	939	904	896	925	935	975	1080	778	
26 D	1076	967	947	964	1036	951	969	770	112	442	625	395	652	761	856	873	827	860	866	917	927	947	975	1029	823	
27	1069	1010	998	954	955	866	614	624	793	830	830	809	874	889	924	922	934	933	932	917	914	911	962	959	893	
28 D	955	985	971	940	917	916	928	923	720	792	481	902	924	880	824	920	917	888	895	898	906	964	963	970	891	
29	933	908	916	905	920	915	916	854	599	888	931	926	916	863	837	856	835	916	927	921	931	904	903	907	889	
30	924	942	981	942	923	921	927	906	851	731	844	893	902	934	929	920	895	900	903	906	908	912	915	914	905	
31	913	914	924	913	918	920	917	890	916	924	925	855	692	799	856	851	926	916	912	910	907	912	933	929	895	
Mean	951	943	942	932	931	923	897	871	830	848	846	863	875	888	897	906	903	900	895	901	908	918	930	950	902	

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

Table 26 Meanook

D = 24° E+ ...'

July 1956

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	17.0	17.7	18.3	20.2	20.3	21.5	20.7	19.0	20.7	21.8	21.3	20.7	25.6	28.4	26.7	26.1	30.5	26.2	21.4	17.4	14.0	15.8	16.0	17.1	21.0
2	17.3	17.9	16.8	17.8	18.4	18.5	27.8	33.5	25.7	25.1	21.8	22.3	25.7	23.9	27.8	30.5	31.8	30.8	23.9	18.9	18.1	15.9	12.9	16.0	22.5
3	16.3	16.4	16.9	20.0	20.2	18.0	27.4	09.2	19.8	23.6	24.6	13.7	16.7	28.6	27.1	28.6	28.1	26.3	21.9	19.9	18.0	13.8	11.5	14.2	20.0
4	14.6	15.6	17.7	17.5	22.5	29.7	15.7	18.7	21.4	16.9	20.1	21.3	25.1	27.6	30.5	29.2	27.9	26.0	19.9	14.9	12.2	13.5	14.0	15.4	20.3
5	17.5	19.3	18.8	18.3	17.2	16.8	17.8	20.3	19.4	19.9	17.9	16.8	19.0	31.0	32.1	31.5	27.6	25.7	20.6	19.4	16.8	17.3	15.4	17.7	20.6
6	18.3	20.6	21.5	21.6	19.0	22.7	20.1	23.8	18.7	16.8	17.8	19.3	25.7	29.8	30.9	30.5	28.6	25.9	20.5	15.0	15.4	12.9	14.3	16.8	21.1
7 Q	18.6	20.3	21.1	20.5	19.9	20.3	19.5	19.8	19.8	19.8	19.6	19.8	21.2	24.4	28.8	31.1	30.2	26.2	19.3	16.5	14.4	14.5	16.0	17.6	20.8
8	19.4	19.8	20.9	20.5	20.0	27.5	21.7	21.7	19.6	18.0	19.4	20.7	19.7	33.3	32.2	30.5	28.8	27.3	22.7	19.7	14.2	09.1	06.1	06.9	20.8
9	13.3	13.9	15.1	15.9	14.7	22.8	15.9	17.0	03.5	26.4	19.9	21.0	19.0	30.0	33.6	33.5	32.2	27.7	22.9	19.5	14.4	10.7	10.9	14.8	19.5
10	16.1	17.8	20.7	20.7	18.9	19.8	18.8	16.9	19.1	17.4	18.2	21.0	22.8	26.2	30.3	31.8	35.3	29.8	40.0	21.3	16.5	10.2	05.3	04.1	20.8
11	10.5	07.2	12.4	15.0	19.0	18.2	21.4	15.7	16.0	19.5	20.3	19.9	20.9	27.6	32.5	37.9	39.4	34.4	27.9	23.4	13.7	12.2	11.1	11.9	20.3
12 D	14.0	16.3	18.1	18.8	17.6	21.6	19.9	14.1	16.6	17.9	18.5	20.1	21.7	22.6	26.8	27.4	27.8	27.1	22.7	18.7	14.1	10.9	09.8	10.1	18.9
13	13.4	16.8	17.0	17.5	19.9	20.1	20.7	22.8	20.6	16.1	17.9	19.8	32.2	33.6	35.0	35.3	39.3	38.2	36.6	29.4	25.1	23.7	20.8	16.6	24.5
14	14.6	11.3	15.9	15.8	18.1	19.0	21.7	14.1	11.9	14.0	15.9	17.9	20.8	26.6	28.9	30.5	31.8	27.7	21.4	20.7	18.3	15.2	13.4	12.2	19.1
15	13.1	15.4	17.8	15.7	16.9	23.8	15.8	16.9	16.4	16.3	19.5	10.9	23.8	27.2	29.0	28.9	31.1	26.9	26.7	17.3	09.0	09.9	13.5	17.8	19.2
16	20.7	20.6	22.7	19.7	18.5	21.8	21.7	18.8	17.7	17.5	18.5	23.5	27.6	32.0	30.5	30.5	29.8	26.6	21.9	18.8	15.4	15.8	14.5	17.0	21.8
17 Q	17.4	17.1	17.9	19.0	22.6	20.0	17.5	16.1	16.0	15.9	20.7	24.3	27.6	30.5	31.5	30.6	30.5	27.6	20.7	17.6	13.9	11.5	10.1	12.1	20.4
18 Q	14.8	15.8	17.6	17.8	17.8	17.8	18.1	18.8	18.6	18.9	20.7	23.2	26.5	29.7	34.5	38.3	35.8	29.1	21.0	13.7	10.6	10.9	11.2	13.9	20.6
19	14.1	12.8	14.9	15.9	14.5	13.4	16.4	14.9	15.1	18.3	19.8	22.5	25.7	31.9	34.4	33.1	36.3	23.6	08.8	11.9	09.3	08.1	10.0	11.8	18.2
20	14.9	15.3	12.8	16.0	16.1	15.1	19.1	17.7	15.0	14.0	17.8	22.7	25.5	34.3	34.8	29.2	31.6	30.7	20.5	14.2	09.4	05.6	08.8	10.9	18.8
21 Q	14.7	15.9	18.8	18.1	17.4	17.9	17.8	18.0	17.9	18.8	19.2	20.3	23.1	26.9	31.4	32.6	35.5	31.7	27.3	20.8	15.4	13.3	14.4	15.4	20.9
22 Q	17.3	17.8	20.5	20.3	21.2	20.4	21.9	23.0	23.3	22.5	20.7	23.2	26.2	28.6	19.8	32.1	34.0	28.1	17.7	15.9	13.9	13.1	13.8	14.4	21.2
23	14.2	13.1	14.3	15.1	14.0	15.7	16.5	17.9	18.8	20.7	21.1	25.7	29.6	35.5	39.3	35.5	39.4	39.6	13.4	08.7	11.1	09.4	15.0	19.1	21.0
24 D	15.3	15.2	15.2	14.1	14.5	12.6	25.8	21.2	17.1	16.3	20.8	20.9	25.7	33.5	34.5	33.6	32.2	27.1	21.8	16.9	13.9	13.6	13.5	14.5	20.4
25 D	16.3	19.1	22.7	31.5	25.2	17.4	22.6	22.8	16.4	15.8	16.0	37.7	46.8	52.4	47.1	41.4	33.0	27.8	18.5	18.3	14.0	18.6	21.9	23.5	26.1
26 D	26.6	23.6	19.5	19.6	24.6	17.9	14.7	01.3	12.5	68.6	18.9	31.2	37.4	29.4	27.6	25.7	24.9	23.2	07.8	12.7	15.6	16.8	22.5	21.6	21.6
27	20.6	23.5	19.8	19.1	24.7	20.0	20.6	11.6	03.5	29.9	28.3	17.8	22.3	25.9	33.6	35.6	35.5	32.4	29.0	27.6	20.7	17.6	22.4	19.7	23.1
28 D	20.2	19.3	20.7	30.1	16.8	16.3	16.8	19.4	27.3	23.1	43.1	23.7	23.2	28.8	28.2	27.9	27.6	23.6	18.4	18.8	13.1	19.3	18.6	19.9	22.7
29	18.4	16.8	16.0	15.9	17.0	18.3	39.4	19.4	31.0	18.8	19.5	23.7	25.0	23.8	23.7	23.0	23.3	22.7	18.5	20.7	15.9	18.3	17.7	18.4	21.0
30	18.0	18.1	29.9	22.0	15.8	16.0	18.2	25.0	30.7	27.7	20.0	23.8	24.4	31.1	30.3	30.2	25.5	21.7	18.8	13.9	14.8	15.9	15.9	18.8	21.9
31	20.3	19.8	20.0	18.8	18.3	18.8	29.6	26.5	26.9	20.2	19.3	18.3	28.7	39.9	33.1	36.5	31.4	23.8	19.1	20.3	18.2	17.5	16.7	17.3	23.3
Mean	16.7	17.1	18.5	19.0	18.8	19.4	20.7	18.6	17.6	21.2	20.6	21.5	25.3	30.2	31.2	31.6	31.5	27.9	21.7	18.2	14.8	13.9	14.1	15.4	21.0

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

Table 27 Meanook

Z = 58,000  $\gamma$  +

July 1956

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	746	750	745	752	747	740	737	615	603	642	712	732	729	722	644	650	716	721	720	725	734	730	751	763	714
2	764	758	737	732	734	737	672	(537	544)	587	643	707	720	654	642	673	723	724	726	733	730	741	738	756	696
3	766	783	796	809	768	756	704	(556)	646	597	646	619	(572)	676	718	729	746	740	733	724	726	734	737	747	710
4	746	740	740	739	767	724	654	646	603	664	719	726	732	626	625	624	623	621	624	620	625	625	730	736	678
5	735	736	728	725	725	726	723	715	666	662	696	642	655	697	716	624	718	718	711	709	624	741	739	746	703
6	747	742	735	738	728	736	729	691	681	713	718	719	719	723	718	710	706	707	706	715	716	719	723	732	720
7 Q	734	729	726	724	721	721	719	719	718	719	719	721	716	710	705	694	699	709	709	706	710	720	732	741	718
8	741	772	769	768	787	783	761	742	736	670	722	734	737	730	727	720	710	707	700	707	719	723	728	763	736
9	781	791	778	739	772	749	725	698	715	684	698	704	643	707	718	714	715	718	718	724	721	721	724	728	724
10	725	726	728	722	719	714	713	713	709	709	708	712	713	708	708	709	710	710	704	710	720	733	745	774	718
11	778	778	794	720	756	747	698	571	644	707	712	709	706	707	730	719	713	709	707	698	699	716	712	719	714
12	730	723	719	724	747	764	737	630	636	655	681	708	706	687	704	713	713	711	718	724	728	723	715	740	710
13 D	768	789	801	760	721	715	716	709	700	611	596	613	698	711	734	704	694	693	725	821	845	840	832	826	734
14	781	775	788	761	751	742	714	718	719	722	726	732	729	728	730	736	722	723	724	723	733	756	758	742	739
15	739	745	744	729	733	698	720	720	713	687	707	719	714	715	709	724	728	722	720	721	715	724	738	752	722
16	755	750	763	754	748	750	680	725	721	716	713	726	729	727	728	723	724	730	726	724	719	723	726	735	730
17 Q	734	735	735	734	737	723	727	723	721	714	669	704	720	725	724	718	719	716	715	713	713	723	725	728	721
18 Q	728	732	726	729	722	719	715	715	715	715	715	714	706	696	692	694	697	707	709	725	737	739	732	716	
19	730	741	766	755	724	708	714	713	714	688	713	718	723	715	705	705	696	690	683	681	686	702	720	754	714
20	832	779	767	778	758	737	721	709	711	683	676	675	668	692	691	709	713	715	718	718	723	728	730	732	724
21 Q	720	719	720	706	705	701	699	698	699	700	700	700	698	694	701	712	709	707	697	701	696	696	699	697	703
22 Q	701	720	729	723	714	706	705	696	699	699	701	697	699	706	704	697	693	692	691	687	690	698	706	708	702
23	701	705	713	711	700	700	699	699	698	696	686	699	691	691	672	668	667	664	674	692	736	832	848	706	
24 D	756	725	713	710	705	694	549	601	810	921	837	730	727	737	730	722	713	709	706	702	707	707	712	727	723
25 D	722	729	758	779	750	726	494	610	674	707	733	560	675	579	716	688	693	694	702	712	737	762	793	843	702
26 D	882	758	735	775	746	699	701	665	(303)	694	539	531	681	662	668	660	643	685	706	730	745	756	812	822	692
27	816	810	801	857	747	707	532	626	575	577	598	668	695	685	723	733	730	719	718	716	735	722	756	780	709
28 D	793	779	768	735	726	726	736	729	708	599	606	638	714	670	597	684	709	710	730	732	752	773	782	810	717
29	761	740	730	723	728	735	602	514	544	671	727	732	726	683	653	673	674	711	710	729	730	728	733	734	696
30	735	748	779	740	726	723	724	702	643	591	653	672	686	725	729	723	715	714	718	721	726	741	746	740	713
31	734	729	732	727	727	730	733	642	697	724	720	638	457	499	636	671	715	745	773	725	721	724	734	735	694
Mean	754	750	750	744	737	727	692	669	667	682	690	687	694	690	697	698	705	708	710	714	718	729	744	754	713

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28 Meanook

July 1956

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	23	55	997	08	35	748	249	07	38	32.5	07	15	10.2	22.3	23	55	791	07	46	531	260
2	06	34	998	09	15	521	477	07	14	44.5	09	13	10.1	34.4	00	01	780	(08 10)	(471)	(309)	
3	02	48	1037	06	22	360	677	07	00	37.5	07	16	-18.8	56.3	03	03	845	12	09	489	356
4	05	05	954	08	26	627	327	05	39	37.6	08	25	3.6	34.0	04	34	790	08	25	525	265
5	21	36	957	11	30	824	133	13	30	34.4	11	28	11.4	23.0	23	55	755	11	37	588	167
6	03	25	960	20	09	885	75	14	17	32.9	21	05	12.2	20.7	00	01	753	08	07	648	105
7 Q	12	13	943	18	21	898	45	15	47	33.4	20	36	13.0	20.4	23	35	747	15	24	691	56
8	23	19	1059	09	45	863	196	05	34	36.2	23	14	1.2	35.0	05	02	813	09	45	573	240
9	00	32	1060	08	31	479	581	09	20	36.5	08	30	-15.6	52.1	00	33	816	09	26	535	281
10	23	58	1022	18	50	826	196	18	50	52.6	23	07	1.2	51.4	23	55	814	18	25	688	126
11	02	57	1163	07	49	891	272	16	25	44.0	03	12	3.0	41.0	02	57	838	07	51	498	340
12	05	03	1118	07	47	817	301	05	25	30.5	23	18	8.0	22.5	05	58	804	07	49	575	229
13 D	23	29	1130	09	14	723	407	16	35	47.9	09	17	7.0	40.9	21	15	983	11	09	559	424
14	00	20	1348	16	16	855	493	15	58	34.5	00	51	6.9	27.6	00	16	828	06	50	683	145
15	00	34	950	19	40	872	78	05	25	35.1	20	08	7.2	27.9	23	55	760	09	48	658	102
16	02	38	997	18	43	857	140	06	02	36.4	21	29	13.9	22.5	02	29	775	06	19	681	94
17 Q	23	57	946	19	27	878	68	14	15	32.9	21	55	10.0	22.9	04	20	748	10	25	655	93
18 Q	22	33	964	17	52	857	107	15	36	39.3	20	35	9.8	29.5	21	54	746	14	55	687	59
19	23	12	1034	17	25	853	178	16	27	40.3	18	15	5.2	35.1	23	56	781	19	50	671	110
20	00	26	1061	17	46	850	211	14	25	37.4	21	17	3.1	34.3	00	18	869	09	31	656	213
21 Q	00	03	932	13	53	882	50	16	43	36.6	22	00	11.7	24.9	00	01	737	13	51	688	49
22 Q	01	20	963	19	45	866	97	16	51	35.9	21	00	12.4	23.5	02	31	733	19	05	684	49
23	23	07	1154	18	16	851	303	16	49	46.1	19	05	3.7	42.4	23	00	875	18	16	647	228
24 D	12	40	1013	09	52	431	582	09	18	47.8	09	53	-19.4	67.2	09	29	1116	06	33	437	679
25 D	23	55	1181	10	24	-150	1331	12	37	117.8	10	21	-70.1	187.9	10	36	986	11	04	350	636
26 D	00	02	1146	08	45	-100	1246	09	33	94.3	08	55	-77.8	172.1	09	09	952	(08 15)	(-40)	(992)	
27	03	15	1114	06	48	377	737	07	24	56.1	08	24	-28.7	84.8	07	19	874	06	26	320	554
28 D	01	08	1043	10	37	197	845	10	45	83.4	10	29	-5.9	89.3	10	29	857	10	49	441	416
29	00	01	1019	08	33	300	719	06	40	70.7	07	58	9.9	60.8	00	01	812	06	49	357	455
30	02	12	1004	09	16	674	330	08	10	50.2	09	55	6.9	43.3	02	33	813	09	14	517	296
31	23	37	965	12	40	634	331	13	00	47.1	11	23	13.0	34.1	06	24	754	13	03	412	342
Mean			1040			660	380			46.5			-1.4	47.9			824			544	280
No. days			31			31	31			31			31	31			31			31	31

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

Table 29 Meanook

H = 12,000  $\gamma$  +

August 1956

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	956	993	990	931	916	911	913	915	914	916	904	880	910	879	899	921	915	902	906	924	922	924	915	945	921
2	916	919	917	931	925	918	919	920	913	800	866	862	847	894	924	903	890	886	893	897	920	921	927	936	902
3	917	914	915	915	916	917	931	919	895	917	901	901	892	888	887	912	898	887	888	890	895	902	934	929	907
4 Q	916	929	911	911	925	919	920	925	924	924	928	931	929	928	924	910	902	893	879	880	892	917	924	954	916
5 Q	956	934	913	923	923	924	917	927	927	928	930	933	939	946	942	931	915	895	891	895	908	917	923	923	923
6	924	922	926	928	931	931	931	931	934	938	937	938	945	950	934	925	918	895	880	880	880	895	911	921	921
7 Q	931	938	938	942	939	927	921	920	923	924	926	929	933	936	929	909	873	842	840	847	870	888	906	919	910
8	952	933	946	928	928	930	945	955	946	966	966	938	942	938	910	877	845	833	849	864	888	942	941	948	921
9	954	949	933	939	963	919	929	936	927	928	864	465	559	784	839	899	855	873	942	939	948	931	967	985	884
10	934	931	933	966	974	934	916	908	931	930	931	933	940	934	927	937	928	910	896	897	902	918	946	933	929
11 D	942	949	941	975	992	1070	1055	987	964	872	678	872	910	898	863	853	866	810	857	903	924	1014	982	995	924
12	1001	971	974	984	933	963	1100	982	900	888	656	805	849	744	770	892	891	857	852	900	931	929	902	911	899
13	915	900	899	907	905	908	910	923	919	(913	912	911	910	907	906	897	893	886)	885	892	899	918	938	946	908
14	972	954	917	912	916	913	930	920	916	920	916	913	902	892	900	899	891	884	891	894	905	919	910	918	913
15	910	906	913	921	922	925	924	928	929	927	921	920	926	922	927	913	898	881	875	883	872	888	923	915	911
16	934	924	919	924	923	921	924	925	928	925	924	918	910	910	913	895	862	863	874	884	884	918	934	970	912
17	939	946	918	937	957	1011	865	931	920	958	865	587	890	932	923	949	924	898	902	906	913	914	915	930	910
18	926	918	921	922	923	925	925	925	926	917	916	924	923	921	911	903	894	886	879	890	897	907	915	930	914
19 Q	920	914	918	923	923	920	924	924	924	925	926	924	928	930	928	909	886	875	870	880	899	919	932	938	915
20 Q	934	920	920	920	923	931	930	928	927	930	931	931	929	931	923	907	883	864	869	879	892	908	933	939	916
21	935	925	924	923	922	934	934	938	930	952	937	934	949	871	763	888	872	858	864	875	902	924	958	997	913
22	899	909	910	914	912	919	910	919	925	927	930	936	939	924	942	911	912	880	877	857	884	937	942	955	915
23 D	948	941	946	992	974	942	929	900	806	743	919	874	639	604	644	869	872	839	828	817	887	910	1081	1181	878
24 D	1324	1122	1210	1086	1034	646	769	607	892	646	416	722	411	043	132	-077	768	856	899	891	927	929	924	1002	758
25 D	942	940	921	943	922	953	580	864	817	650	424	376	679	708	699	798	940	872	898	923	920	946	1017	1022	823
26 D	1212	1256	1214	1033	954	933	928	487	667	753	919	946	914	896	857	835	852	863	845	874	902	928	917	910	912
27	899	898	906	914	942	886	703	918	895	832	836	796	844	834	832	888	880	862	871	880	892	910	923	960	875
28	973	968	952	938	915	912	909	908	910	916	901	897	914	905	855	839	865	869	863	875	874	897	902	918	903
29	927	927	920	919	913	921	925	910	910	901	916	867	890	909	818	868	879	879	854	854	878	894	932	945	898
30	934	923	923	939	927	930	922	852	882	930	799	858	909	904	909	901	871	872	881	891	902	915	927	936	902
31	940	930	925	927	928	930	930	933	930	900	364	427	826	822	901	836	806	861	854	876	900	909	923	928	854
Mean	958	948	946	941	936	923	909	899	905	887	844	840	865	854	853	861	882	872	876	885	900	919	936	953	900

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

Table 30 Meanook

D = 24° E + ...'

August 1956

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	18.0	27.6	24.1	16.8	17.1	19.9	20.0	18.1	18.8	18.5	19.4	13.4	20.2	23.6	28.6	27.2	24.8	22.0	19.0	12.3	14.8	16.8	16.5	17.0	19.8
2	20.7	21.7	18.7	18.2	18.9	18.3	17.0	18.8	16.9	12.5	19.0	24.4	22.0	34.0	31.5	29.3	27.1	21.5	18.8	18.9	16.6	16.0	17.1	18.1	20.7
3	18.5	17.5	17.0	17.5	17.9	17.5	18.9	26.6	21.1	20.0	18.9	24.3	28.7	33.1	33.0	29.7	24.8	22.1	18.8	14.7	14.0	14.9	15.8	17.6	21.0
4 Q	17.2	17.1	18.1	16.8	16.4	16.5	17.5	17.9	20.0	20.7	21.6	23.7	25.4	27.1	27.6	28.1	27.3	24.5	15.8	11.2	10.9	11.9	12.1	15.8	19.2
5 Q	19.0	21.7	21.0	19.8	19.2	19.8	18.9	20.8	18.6	18.8	18.0	19.4	24.3	28.2	30.1	30.3	28.6	22.9	15.7	11.9	09.0	10.2	11.4	14.6	19.7
6	18.8	20.3	19.2	18.4	18.2	17.8	18.2	18.9	19.6	21.0	22.0	23.6	25.9	29.2	31.6	33.2	31.1	31.2	21.9	21.6	15.7	13.3	12.9	13.8	21.6
7 Q	15.9	18.4	18.5	17.3	18.1	18.0	16.5	17.1	18.1	19.0	20.6	23.1	26.6	29.3	32.1	33.6	33.3	27.8	19.7	11.1	04.4	04.6	08.6	13.6	19.4
8	14.9	16.9	17.2	17.7	15.6	16.3	15.1	19.9	15.0	18.8	21.5	23.8	27.6	29.8	32.3	31.5	27.5	27.4	08.3	03.6	05.6	09.8	10.9	12.0	18.3
9	15.9	15.9	19.4	17.9	15.8	19.5	15.9	16.8	16.3	15.8	13.9	44.3	58.3	40.5	33.9	41.9	44.3	23.8	13.3	10.1	18.5	21.3	22.2	18.3	23.9
10	20.7	22.1	22.3	19.4	24.1	20.1	20.4	28.1	19.0	16.2	17.8	19.8	23.0	27.6	34.4	35.5	32.6	25.7	19.8	15.8	12.0	11.3	11.9	12.9	21.4
11 D	13.4	09.8	10.9	08.0	06.9	10.0	11.0	06.2	21.0	23.5	27.6	39.2	36.7	32.5	32.4	44.5	34.4	30.5	20.5	24.7	08.7	10.5	11.5	12.3	20.3
12	09.0	17.7	10.0	12.0	10.8	15.1	06.7	10.0	12.1	14.7	03.7	25.7	28.7	26.8	23.7	30.1	30.5	30.1	21.7	13.6	11.0	11.9	11.8	14.9	16.8
13	15.8	16.8	16.2	16.3	16.5	16.8	17.0	18.1	19.0	20.7	21.0	21.2	21.4	22.1	22.2	22.1	21.9	21.5	20.9	16.9	14.6	12.6	10.9	11.2	18.1
14	12.9	15.1	17.2	18.1	18.1	18.8	18.1	16.8	17.9	18.7	19.5	20.9	22.7	25.7	28.1	29.5	28.0	24.1	19.8	14.7	11.8	11.4	11.9	14.0	18.9
15	16.9	17.8	17.8	17.3	16.9	16.8	17.2	17.8	18.0	19.2	20.4	21.2	23.7	25.6	27.8	28.7	27.9	26.6	21.9	18.2	10.9	09.0	10.9	13.6	19.2
16	15.9	17.1	17.9	17.8	17.1	17.9	18.2	18.7	19.4	19.7	21.9	21.7	24.7	29.5	33.7	33.3	27.8	17.1	12.7	10.9	10.2	09.1	08.5	08.5	18.7
17	10.4	08.7	08.8	11.3	10.9	03.6	15.9	16.7	18.2	21.3	15.9	10.7	19.7	25.7	36.4	32.0	30.5	26.1	18.8	14.8	11.8	12.1	14.9	17.9	16.3
18	19.2	19.3	17.8	17.8	20.0	19.8	17.5	17.8	18.8	18.9	19.9	24.0	27.6	30.1	31.5	31.5	28.7	23.7	18.0	12.5	10.7	10.9	13.8	17.0	20.3
19 Q	19.8	20.0	18.3	17.8	17.9	17.8	18.0	18.7	19.9	20.9	21.6	24.0	26.6	29.0	29.7	30.5	28.9	23.1	16.1	10.1	08.0	09.0	11.0	14.8	19.6
20 Q	17.6	18.8	16.5	16.3	16.2	15.8	16.9	16.8	18.0	19.9	21.3	23.1	25.6	28.6	33.5	34.6	31.1	23.9	17.4	13.5	10.9	10.3	12.9	16.8	19.8
21	19.5	19.5	17.8	16.7	16.8	14.9	14.7	16.2	20.5	20.7	22.3	28.2	30.6	26.8	40.5	41.6	39.6	30.4	06.2	09.8	06.6	09.1	09.2	10.9	20.4
22	10.1	16.3	17.8	16.0	16.8	13.6	16.3	16.8	16.9	18.0	20.7	23.1	25.7	29.8	32.4	32.6	30.1	27.6	21.8	14.6	07.1	09.2	12.4	16.5	19.3
23 D	19.7	20.4	18.2	16.6	23.7	17.6	21.2	23.6	36.2	25.3	27.7	17.8	18.7	44.3	39.2	34.7	29.6	22.5	20.2	07.6	13.8	22.8	33.6	34.1	24.6
24 D	35.9	15.7	10.2	27.3	-0.4	09.9	19.7	05.2	19.5	12.5	21.4	34.3	31.9	19.7	34.3	49.6	33.7	25.6	24.5	13.5	18.8	20.8	21.8	22.3	22.0
25 D	24.6	20.7	18.4	24.1	24.4	23.2	02.7	18.9	15.4	32.5	29.6	44.2	44.3	38.4	34.4	42.3	31.2	25.1	16.8	18.7	17.6	17.9	19.1	25.2	25.4
26 D	25.6	30.9	29.4	27.5	24.3	21.5	27.6	18.3	20.7	22.3	18.9	19.9	23.3	27.2	29.1	33.4	30.8	28.6	20.2	12.9	14.2	15.1	16.3	17.7	23.2
27	19.4	20.0	23.9	25.2	20.7	13.0	00.0	21.8	18.7	19.2	15.0	22.6	31.2	24.3	30.7	35.5	31.1	26.1	18.2	16.1	12.9	14.9	17.9	19.4	20.7
28	22.8	21.4	20.8	22.7	20.7	19.4	18.8	17.6	18.4	19.8	17.9	19.4	23.4	24.8	24.8	26.6	28.8	23.8	22.2	17.1	14.5	15.0	15.2	16.7	20.5
29	18.8	20.0	18.8	17.7	19.9	19.7	18.4	20.3	20.4	13.8	15.9	15.4	21.7	27.2	22.3	30.1	29.0	26.9	25.7	18.0	10.7	10.5	12.9	14.9	19.5
30	18.2	18.4	20.1	25.2	22.7	18.9	18.8	14.0	19.5	20.7	11.7	19.5	26.8	30.1	32.9	31.2	25.7	19.8	17.3	16.0	15.1	14.8	15.9	18.7	20.5
31	19.7	21.2	22.6	21.2	21.8	19.2	17.0	19.8	21.8	20.7	11.4	47.2	40.4	35.5	29.1	35.0	29.1	12.9	02.6	10.0	09.1	11.7	16.8	19.3	21.5
Mean	18.2	18.9	18.2	18.5	17.6	17.0	16.4	17.8	19.2	19.5	19.3	23.9	27.7	29.2	31.1	33.2	30.0	24.7	17.9	14.0	12.0	12.9	14.5	16.5	20.3

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

Table 31 Meanook

Z = 58,000  $\gamma$  +

August 1956

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	751	796	778	740	730	729	724	721	707	697	674	659	693	662	675	714	729	724	716	714	718	729	739	750	720	
2	750	750	735	729	728	721	713	724	696	546	598	694	693	664	707	715	710	713	720	726	725	719	730	740	706	
3	728	713	711	710	709	709	715	680	681	701	686	693	686	674	670	695	708	708	712	714	713	715	726	737	704	
4	735	729	724	723	723	720	715	715	713	712	715	716	716	710	708	702	700	705	706	712	718	733	737	756	718	
5	763	751	737	732	730	733	720	740	723	715	719	727	728	724	720	719	722	724	722	728	735	738	740	735	730	
6	733	729	725	722	719	716	714	715	715	718	722	724	725	724	715	713	707	702	701	702	709	715	730	742	718	
7	741	740	734	735	750	736	719	715	715	715	716	718	722	721	719	715	706	704	697	698	710	715	718	720	720	
8	728	729	734	724	716	713	718	739	735	721	732	720	726	719	697	680	653	657	688	722	748	776	767	765	721	
9	772	780	778	773	767	708	747	753	736	723	641	458	537	673	647	674	683	706	762	748	764	791	832	853	721	
10	801	788	756	764	784	756	728	694	719	724	726	730	735	729	719	728	726	719	716	721	723	726	729	721	736	
11	713	712	715	721	725	719	671	630	681	692	698	670	705	697	657	647	674	678	722	734	807	829	795	778	711	
12	774	772	766	815	759	761	741	708	664	712	571	636	626	576	615	707	735	735	729	722	734 (734)	723	724	710		
13	723	720	721	719	713	714	713	716	711 (711)	714	713	722	723	728	724	729	732	730	732	733	747	759	761	725		
14	786	769	742	727	724	718	723	722	721	715	713	712	708	706	707	718	721	718	718	721	722	719	721	724		
15	723	719	716	718	715	713	709	708	708	708	702	691	704	710	712	713	714	709	706	715	719	718	725	714	712	
16	718	715	715	716	714	711	711	710	710	706	699	690	681	685	685	692	682	665	685	698	712	724	726	737	704	
17	744	760	772	746	749	644	650	714	705	715	718	686	672	720	718	747	729	727	732	730	726	725	728	735	720	
18	734	730	726	732	729	734	734	730	729	728	724	726	729	721	715	714	713	713	714	715	713	715	715	716	723	
19	715	714	714	714	714	714	714	714	714	714	714	715	716	715	715	711	706	704	710	711	714	718	719	719	714	
20	721	716	715	715	715	720	719	709	705	713	715	715	715	714	714	715	710	709	712	714	724	725	724	716		
21	719	715	714	714	712	712	716	672	670	716	714	708	716	662	512	605	654	675	694	706	734	759	778	808	699	
22	828	780	739	729	720	721	708	708	708	713	715	716	718	711	719	711	716	714	722	734	745	768	798	786	734	
23	787	772	767	805	800	756	734	688	586	567	672	682	519	400	414	607	667	674	693	694	761	813	871	898	693	
24	759	772	726	608	721	657	712	601	704	672	550	571	484	681	892	531	702	715	736	767	774	775	776	806	696	
25	804	768	759	795	753	693	610	639	642	507	536	654	693	681	659	655	753	734	755	770	768	789	786	800	708	
26	762	695	701	752	762	758	681	613	416	575	668	740	747	737	730	708	716	723	728	749	765	762	742	737	707	
27	734	732	745	746	739	665	442	683	669	594	632	565	626	654	642	683	714	724	737	746	746	745	740	752	686	
28	782	778	773	748	742	748	725	707	712	726	718	706	728	729	695	669	710	724	740	742	741	754	751	744	733	
29	744	741	737	740	736	735	734	718	691	647	701	662	679	706	626	674	713	729	741	754	760	751	761	763	718	
30	767	766	762	756	740	736	739	593	603	694	580	634	701	696	697	714	719	728	737	747	747	742	740	740	712	
31	742	742	738	736	732	727	736	736	715	694	554	830	673	639	697	643	651	655	684	715	753	752	749	759	710	
Mean	751	745	738	736	734	719	704	697	687	684	675	686	685	686	685	688	706	708	717	726	737	746	751	756	714	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32 Meanook

August 1956

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	02	09	1049	11	13	856	193	01	50	36.2	11	29	9.1	27.1	01	55	822	11	12	628	194
2	23	05	952	09	30	762	190	13	29	37.1	09	30	7.4	29.7	01	06	760	09	50	519	241
3	22	42	956	08	27	870	86	14	57	36.3	07	10	12.9	23.4	23	26	741	07	43	640	101
4 Q	23	10	967	19	00	874	93	15	21	29.2	19	52	9.1	20.1	23	49	760	16	36	696	64
5 Q	00	20	969	17	50	882	87	14	25	31.5	20	32	8.6	22.9	00	21	767	06	35	695	72
6	13	37	956	19	00	875	81	15	00	35.5	23	14	11.8	23.7	23	20	749	19	00	697	52
7 Q	03	54	953	18	15	826	127	16	11	35.5	21	03	2.2	33.3	04	35	766	19	20	692	74
8	10	00	998	17	28	759	239	17	30	38.4	19	09	1.1	37.3	21	50	786	17	21	622	164
9	05	09	1012	11	38	345	667	13	21	77.5	10	46	7.0	70.5	23	45	864	11	39	488	376
10	04	11	1018	07	29	885	133	14	55	38.4	21	31	10.9	27.5	00	01	832	07	29	673	159
11 D	04	58	1131	10	33	602	529	15	10	53.0	07	29	-16.3	69.3	21	15	855	07	36	564	291
12	06	34	1166	13	47	581	585	11	20	37.3	10	29	-12.6	49.9	03	43	855	14	09	499	356
13	23	38	960	18	39	880	80	(18 40)	(22.6)	(22 54)	9.9	(12.7)	(23 59)	(768)	(06 50)	(708)	(60)				
14	00	48	1000	17	30	877	123	15	11	30.6	21	42	10.6	20.0	00	45	802	14	00	700	102
15	22	40	940	20	20	862	78	16	17	29.6	21	30	8.5	21.1	22	41	732	11	24	680	52
16	23	49	992	16	55	848	144	14	29	35.5	23	58	7.4	28.1	23	50	749	17	21	656	93
17	05	35	1176	11	08	494	682	05	59	47.1	05	44	-43.9	91.0	06	38	792	05	43	197	595
18	00	05	953	18	40	871	82	14	51	33.4	21	01	9.6	23.8	00	06	750	15	16	707	43
19 Q	23	55	945	18	09	867	78	15	17	31.6	20	27	7.9	23.7	21	06	722	17	10	699	23
20 Q	23	11	950	17	38	859	91	15	29	35.9	20	45	10.1	25.8	23	11	727	08	41	695	32
21	23	48	1051	14	10	656	395	14	47	52.0	20	20	1.2	50.8	23	46	833	14	11	483	350
22	00	00	1036	19	24	846	190	15	04	36.3	00	33	4.1	32.2	00	42	844	15	05	695	149
23 D	23	36	1256	14	07	512	744	13	35	56.9	19	35	1.2	55.7	23	37	921	14	06	315	606
24 D	00	34	1450	15	05	-414	1864	(13 25)	162.4	13 40	-107.5	269.9	13 28	1277	13 46	08	1269				
25 D	23	04	1070	11	03	267	803	11	27	111.5	06	12	-38.0	149.5	11	34	911	10	04	241	670
26 D	00	37	1462	07	59	199	1263	08	05	77.5	00	47	-13.9	91.4	00	22	835	08	07	90	745
27	05	00	1018	06	23	470	548	12	33	42.2	06	14	-45.4	87.6	23	24	767	06	16	211	556
28	03	15	1006	14	54	818	188	16	34	32.5	21	01	13.0	19.5	02	36	805	15	11	648	157
29	23	54	995	14	26	755	240	15	29	32.6	21	20	9.0	23.6	23	54	781	14	33	573	208
30	00	02	975	11	00	696	279	14	19	35.3	07	33	-3.8	39.1	00	04	775	07	54	422	347
31	00	23	944	10	45	-361	1305	11	36	84.5	10	34	-33.3	117.8	11	05	1084	10	35	348	736
Mean			1042			649	393			47.6			-4.6	52.2			820			532	288
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 1956

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	931	912	915	917	930	955	901	879	877	814	505	784	719	891	917	901	865	877	876	879	891	926	942	910	871	
2 D	914	965	1003	1056	1205	1042	1183	1198	681	296	378	416	669	735	876	847	844	865	873	905	923	917	928	921	860	
3 D	917	948	1082	1117	1016	738	775	677	562	511	140	340	541	634	703	850	893	879	897	906	934	937	933	948	787	
4	941	918	903	907	911	898	766	627	806	887	797	783	862	854	902	903	887	862	855	864	883	903	911	916	864	
5	945	918	922	927	907	907	912	918	920	923	926	927	927	924	919	904	889	877	860	869	881	898	906	932	910	
6	974	899	927	942	1007	939	900	830	906	767	872	617	652	534	657	808	888	911	884	860	867	932	917	966	852	
7	962	953	949	916	908	910	910	916	915	915	918	927	916	911	913	910	880	880	871	873	875	891	903	904	909	
8 D	906	911	921	920	919	920	927	919	753	825	601	497	621	382	597	659	908	918	884	906	905	922	908	877	813	
9	895	904	898	906	920	919	941	786	866	888	702	686	673	818	872	880	861	862	877	914	929	904	927	912	864	
10	942	883	900	912	904	902	900	901	893	895	902	905	898	884	898	888	878	856	862	876	898	900	893	902	895	
11	920	905	914	925	950	943	968	944	914	820	873	799	820	886	900	883	890	881	875	881	899	899	896	906	896	
12	912	918	921	921	925	925	924	925	927	926	926	925	921	925	920	908	896	885	872	875	909	965	1043	1076	928	
13	1011	973	997	857	924	1019	951	920	892	899	904	898	897	903	888	889	878	863	885	896	911	896	896	903	915	
14 Q	901	911	914	917	920	917	916	916	923	921	911	912	913	907	903	889	878	872	871	878	883	898	907	932	905	
15	923	915	925	925	926	925	922	922	925	920	921	923	926	928	928	919	903	894	889	889	898	907	946	917	917	
16	894	907	917	922	921	923	926	927	926	926	926	926	930	923	904	877	832	879	891	897	907	894	909	907	908	
17 Q	912	917	923	921	921	925	931	929	922	921	911	918	922	921	900	881	885	876	877	882	885	902	914	918	909	
18 Q	925	916	911	918	921	925	925	925	928	929	929	929	926	928	924	911	894	881	878	888	901	912	918	917	915	
19 Q	917	918	922	928	929	929	931	934	934	935	935	932	932	929	921	903	893	895	897	908	915	921	925	921	921	
20	918	929	943	963	978	1011	965	856	943	943	967	966	943	950	952	913	857	903	911	903	894	914	912	940	932	
21 D	913	1019	1105	1152	926	681	763	924	873	600	742	860	755	646	883	897	875	871	881	878	893	920	925	914	871	
22 D	928	941	946	953	824	896	582	606	878	629	489	474	890	927	918	791	871	871	885	886	910	918	917	914	827	
23	922	927	949	924	907	907	914	863	878	895	692	789	847	879	902	903	899	891	881	885	891	899	908	902	886	
24	911	912	914	919	919	923	925	922	919	914	911	896	888	867	887	900	894	888	875	875	875	895	910	916	902	
25	926	932	928	922	911	911	917	921	922	924	926	926	922	914	891	869	891	887	878	877	877	895	914	918	908	
26	926	946	970	1047	1063	1011	844	801	746	499	785	891	883	918	917	917	903	907	903	893	893	903	913	918	892	
27	922	921	917	915	916	916	917	918	916	916	905	838	805	840	845	914	913	900	879	880	865	887	903	910	894	
28	916	922	932	971	924	943	930	918	861	793	897	917	918	912	907	914	917	911	901	906	899	903	899	911	909	
29 Q	907	918	921	923	924	925	926	925	925	925	926	931	932	930	926	918	907	887	891	900	909	917	911	930	918	
30	927	918	920	942	944	926	936	930	932	924	903	888	930	939	935	921	905	899	889	889	895	903	907	899	917	
31																										
Mean	925	926	940	946	940	920	904	886	875	829	804	814	846	851	880	883	886	884	882	887	896	909	918	922	890	

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

D = 24°E + ...'

Table 34 Meanook

September 1956

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	20.7	19.7	17.8	17.3	18.3	25.2	15.9	19.8	23.6	23.7	22.7	26.5	38.3	38.9	40.3	33.0	30.5	22.2	19.8	16.9	08.7	11.0	12.9	15.2	22.4	
2 D	17.3	15.5	18.8	34.5	11.8	65.0	36.1	05.9	14.1	38.4	41.5	27.7	26.9	39.5	44.6	44.9	34.8	21.0	24.8	13.5	16.8	17.7	19.9	21.0	17.6	
3 D	22.1	21.4	24.7	40.0	18.8	11.3	02.8	03.0	10.9	01.6	44.5	66.5	62.8	41.1	34.5	36.7	31.2	24.8	17.7	14.9	16.0	15.9	18.0	20.2	24.7	
4	24.0	24.1	22.9	21.1	20.6	19.4	15.6	02.8	18.0	21.7	15.1	13.9	26.5	34.8	37.8	34.2	30.6	25.7	21.5	17.7	15.3	15.9	18.9	21.5	21.4	
5	23.1	25.7	22.6	20.0	19.3	17.8	17.8	18.3	19.8	20.8	21.3	22.0	25.3	27.2	28.5	27.4	26.8	22.7	19.6	16.5	15.2	16.7	18.0	18.3	21.3	
6	19.8	21.0	20.2	18.6	11.4	24.4	18.9	20.7	24.7	27.5	25.8	28.7	23.7	30.7	32.5	28.7	25.3	24.4	22.7	22.7	17.8	21.2	15.1	16.5	22.6	
7	19.3	14.8	21.1	18.9	18.3	18.4	18.8	22.8	20.8	20.7	20.9	21.6	23.9	29.8	32.6	31.2	29.6	27.1	21.6	17.7	14.4	13.7	13.9	14.7	21.1	
8 D	15.9	17.0	17.7	17.7	18.0	19.0	19.0	26.6	08.1	30.1	36.0	54.2	41.3	52.9	36.0	63.1	22.7	32.7	18.2	09.1	15.4	14.9	12.9	17.6	25.7	
9	17.8	19.7	16.8	15.2	17.3	15.9	05.2	17.0	20.8	12.8	36.8	39.5	46.5	24.1	31.8	37.2	35.5	27.8	25.0	24.9	20.1	15.0	14.2	15.0	23.0	
10	13.6	17.3	17.8	19.0	19.8	19.2	19.8	19.0	18.4	24.2	22.7	23.1	22.9	21.2	28.1	29.6	28.6	28.6	20.8	12.9	12.9	14.2	15.9	16.3	20.2	
11	15.9	16.9	17.7	17.2	16.3	15.9	15.0	11.5	20.1	26.9	24.4	29.8	26.6	31.1	28.8	27.0	27.6	24.4	19.6	18.3	13.9	13.9	15.8	18.1	20.5	
12	18.3	17.1	17.3	17.4	16.7	17.3	18.4	19.8	19.9	20.7	20.7	20.8	23.2	24.5	26.9	29.6	29.6	26.8	25.8	17.4	19.0	14.9	14.1	11.9	20.3	
13	15.9	13.3	14.7	01.3	16.7	18.8	16.6	16.2	22.7	21.8	20.7	22.3	23.9	26.8	25.7	28.1	30.4	30.5	20.4	15.2	15.8	17.6	18.5	20.5	19.8	
14 Q	20.3	18.8	17.8	18.2	17.4	17.8	17.4	17.7	16.8	20.4	21.2	22.1	23.2	25.2	29.2	30.5	28.2	26.6	21.5	18.0	16.1	15.6	16.7	15.3	20.5	
15	16.6	16.7	15.9	16.9	15.8	17.8	18.8	19.8	19.9	20.5	20.9	22.4	23.1	25.3	28.2	30.3	30.5	28.6	23.2	17.3	13.8	14.4	12.4	13.6	20.1	
16	16.3	16.8	16.8	17.1	18.2	18.3	18.3	19.3	20.3	21.6	21.8	22.7	22.8	26.6	28.8	26.6	19.8	14.9	15.7	15.7	15.1	13.5	16.0	18.3	19.2	
17 Q	19.8	18.8	17.9	17.4	17.8	20.0	17.7	18.6	19.8	20.7	22.7	27.7	26.6	27.9	30.1	30.3	26.1	25.9	19.9	17.0	11.9	13.9	16.3	18.3	21.0	
18 Q	18.3	17.4	17.2	17.8	17.8	17.5	17.9	18.8	19.8	20.4	21.2	22.3	23.9	27.5	29.1	30.5	28.7	25.8	19.9	15.4	13.7	15.0	17.3	18.7	20.5	
19 Q	18.0	17.1	16.9	17.0	17.5	17.8	18.0	18.8	19.8	20.7	21.3	22.2	23.7	26.1	29.6	30.2	29.7	26.1	20.6	16.0	15.3	15.2	16.5	17.3	20.5	
20	17.0	15.9	15.1	16.9	14.9	17.8	14.0	16.8	19.3	19.5	20.7	25.5	28.1	24.0	25.7	23.9	20.7	11.9	13.8	12.9	11.8	14.1	15.5	17.2	18.0	
21 D	19.8	17.7	22.5	15.1	02.2	03.1	23.2	20.0	16.9	21.7	24.7	21.2	23.3	21.7	32.1	30.3	26.6	26.5	20.0	13.4	16.8	17.1	18.5	17.6	19.4	
22 D	15.9	19.8	21.7	24.9	21.1	19.6	05.4	12.8	15.6	21.9	26.9	28.7	41.3	32.5	34.4	33.7	27.4	26.9	25.3	16.7	20.7	21.6	22.8	22.8	22.9	
23	22.7	24.7	34.1	18.1	18.3	19.0	34.5	17.3	22.7	21.4	20.7	10.0	22.7	24.7	31.2	29.1	29.5	28.1	24.9	21.3	18.3	17.8	18.3	19.7	22.9	
24	19.3	18.8	19.0	18.9	18.9	18.8	18.8	19.8	20.3	22.7	22.6	18.8	19.8	19.8	23.6	28.7	30.1	30.1	25.8	23.0	16.8	15.9	15.9	16.1	20.9	
25	16.7	15.7	17.4	18.8	16.8	17.5	18.3	19.0	19.8	20.3	20.5	20.5	21.7	23.2	26.1	25.7	25.9	25.6	23.7	18.8	15.9	11.9	11.4	12.9	19.3	
26	10.1	11.9	12.2	13.9	17.8	20.7	34.0	23.7	21.5	18.8	27.6	24.0	16.3	21.4	25.7	26.1	26.9	23.7	21.2	20.1	18.7	17.8	17.8	17.8	20.4	
27	18.1	18.9	19.1	19.3	19.0	19.3	20.7	20.1	20.5	20.9	20.7	18.1	24.2	24.7	20.1	30.5	28.1	26.9	23.6	20.3	15.9	14.9	15.1	16.1	20.6	
28	17.7	18.3	17.1	18.8	24.2	21.7	20.3	22.7	23.9	29.6	24.7	23.1	22.7	25.7	26.9	27.3	26.1	25.7	24.2	22.8	21.5	19.0	18.3	15.8	22.4	
29 Q	15.9	15.4	17.3	17.8	18.8	18.8	19.3	21.6	21.7	21.7	21.7	22.2	23.7	26.1	28.0	28.3	26.9	22.7	15.4	13.6	12.4	14.9	17.7	15.9	19.9	
30	14.9	16.3	14.9	14.3	16.3	17.9	18.7	18.7	19.9	20.7	22.7	25.7	25.2	27.1	28.1	28.5	25.7	23.0	20.3	18.9	17.9	17.1	17.1	17.3	20.3	
31																										
Mean	18.0	18.1	18.8	18.6	17.2	15.2	15.7	17.2	18.4	21.7	24.5	25.8	27.5	28.4	30.2	31.4	28.0	25.3	21.2	17.3	15.8	15.7	16.4	17.2	21.0	

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

Table 35 Meanook

Z = 58,000  $\gamma$  +

September 1956

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	765	752	747	736	747	554	597	667	681	669	777	626	570	672	715	706	716	738	745	752	755	765	767	740	707	
2 D	728	760	843	854	755	494	699	617	788	840	993	926	790	733	756	745	725	750	753	780	767	762	768	761	766	
3 D	755	770	794	719	693	599	759	701	821	813	627	786	627	605	608	664	724	739	760	786	804	793	784	789	730	
4	783	779	770	760	754	734	610	564	637	699	664	621	688	667	709	745	756	759	761	767	772	768	756	754	720	
5	775	778	766	758	741	737	737	740	742	740	738	737	739	738	736	735	733	736	742	749	755	759	752	752	746	
6	767	750	751	759	762	710	715	681	721	640	672	608	535	538	597	669	728	747	746	759	779	812	784	789	709	
7	802	814	802	750	736	735	739	735	739	732	734	735	730	725	724	725	720	725	734	734	735	733	733	729	742	
8 D	726	728	732	730	726	724	728	694	591	603	529	642	759	552	773	273	768	760	714	756	773	765	756	749	690	
9	751	756	744	746	759	752	740	690	733	669	600	618	722	658	685	708	724	739	754	772	769	750	756	764	723	
10	768	746	740	740	730	728	729	727	709	710	710	726	723	713	728	726	726	728	735	732	739	748	741	740	731	
11	746	735	735	737	748	745	775	766	740	629	655	591	630	692	720	723	735	736	736	730	740	739	730	729	718	
12	728	732	730	729	729	732	730	733	728	726	726	724	725	726	728	725	726	723	720	727	738	769	793	804	736	
13	782	803	776	664	714	748	752	732	656	712	726	730	730	736	732	737	739	741	742	741	746	740	741	746	736	
14 Q	741	741	737	734	732	730	728	728	719	748	737	730	732	730	732	732	732	732	732	729	733	737	739	740	742	734
15	737	735	732	730	730	729	728	726	726	726	725	725	728	728	727	725	724	718	716	719	716	728	742	734	727	
16	727	722	725	725	721	721	722	722	722	722	722	722	721	726	718	710	667	678	699	710	739	745	738	732	719	
17 Q	728	725	726	727	737	745	737	742	735	727	701	692	719	721	714	708	714	715	713	718	725	725	722	723	722	
18 Q	724	723	720	720	720	720	720	720	720	719	719	719	718	722	721	721	720	720	720	726	729	728	723	722	721	
19 Q	720	719	719	719	719	719	719	720	720	719	718	719	719	719	719	718	713	705	710	713	721	724	719	718	718	
20	713	714	723	767	769	765	707	683	728	732	726	730	715	720	716	692	669	657	707	748	760	772	769	778	728	
21 D	770	817	753	694	539	702	700	736	768	749	654	724	685	583	681	727	742	752	760	761	756	767	766	748	722	
22 D	748	775	755	750	591	674	754	756	764	778	821	730	660	724	726	688	747	741	780	775	754	749	750	753	739	
23	752	760	753	738	732	735	710	591	683	711	590	591	629	683	710	721	737	735	727	721	723	726	727	726	705	
24	733	732	732	732	728	728	730	732	723	700	705	688	682	685	704	714	720	726	726	726	726	721	727	737	719	
25	748	760	765	753	742	734	727	727	724	724	723	722	724	721	707	698	704	707	714	721	727	736	742	746	729	
26	748	768	804	846	846	762	629	694	694	705	618	699	710	726	726	735	737	741	739	738	737	737	737	737	734	
27	732	732	732	732	732	732	730	726	725	719	710	645	583	634	661	695	713	724	728	739	744	753	737	736	712	
28	734	742	752	748	729	755	764	742	710	640	688	712	724	725	721	724	721	721	726	733	737	738	733	734	727	
29 Q	732	732	729	729	729	729	729	732	726	724	724	722	721	721	721	718	719	716	710	712	716	721	721	729	723	
30	732	738	754	775	786	748	733	728	735	720	678	626	688	714	724	721	719	719	721	722	726	729	735	735	725	
31																										
Mean	746	751	751	743	729	714	719	708	720	715	704	699	694	691	711	701	724	728	732	740	745	748	746	746	725	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36 Meanook

September 1956

Day	Horizontal Intensity						Declination					Vertical Intensity										
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +		Range	Maximum 58,000 $\gamma$ +		Minimum 58,000 $\gamma$ +							
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.		m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1	05	40	977	10	14	277	700	12	15	46.3	10	20	-19.4	65.7	10	16	903	12	16	531	372	
2 D	05	27	1367	11	06	-37	1404	09	40	108.8	(05	40	-129.4	238.2)	11	13	1235	05	18	214	1021	
3 D	03	04	1262	10	55	-83	1345	12	07	113.4	09	46	-83.8	197.2	12	43	1012	12	30	302	710	
4	00	43	956	07	23	302	654	13	56	39.4	07	35	-38.1	77.5	00	01	794	07	15	289	505	
5	23	59	985	18	07	844	141	14	43	29.5	20	18	14.5	15.0	01	05	786	14	31	729	57	
6	04	55	1058	13	40	314	744	12	57	53.0	12	50	-1.8	54.8	21	14	828	12	49	424	404	
7	01	56	1003	18	24	861	142	15	03	38.5	01	46	11.0	27.5	01	54	845	16	36	713	132	
8 D	17	14	1095	14	05	10	1085	(14	10	114.6)	13	55	-74.8	(189.4)	14	21	1227	14	14	76	1151	
9	06	50	1070	10	54	548	522	12	00	46.1	06	55	-36.6	82.7	12	30	845	06	50	507	338	
10	00	07	986	18	15	840	146	17	00	33.6	19	40	10.8	22.8	00	09	789	08	56	618	171	
11	06	56	1004	09	12	712	292	09	21	45.7	07	04	-0.8	46.5	05	51	798	11	32	576	222	
12	23	48	1239	18	18	862	377	15	30	33.6	22	54	7.2	26.4	23	49	870	18	16	712	158	
13	00	01	1130	03	25	641	489	17	10	36.7	04	01	-41.1	77.8	04	06	890	04	23	510	380	
14 Q	23	50	951	18	22	865	86	15	37	33.0	08	33	12.8	20.2	09	34	754	08	27	694	60	
15	22	09	956	18	47	887	69	16	05	32.4	23	07	10.9	21.5	00	04	749	17	35	714	35	
16	12	12	939	16	05	813	126	14	54	31.0	18	15	11.0	20.0	21	05	752	16	24	648	104	
17 Q	04	55	946	17	25	871	75	15	44	32.5	20	31	11.7	20.8	05	17	758	11	07	667	91	
18 Q	08	51	932	17	27	876	56	15	24	31.2	20	28	13.3	17.9	20	34	732	03	50	716	16	
19 Q	10	40	940	18	01	890	50	16	06	31.5	20	59	14.7	16.8	20	56	726	17	30	701	25	
20	05	09	1090	07	34	800	290	12	09	37.6	17	20	1.2	36.4	23	37	828	07	08	613	215	
21 D	04	08	1213	04	53	273	940	14	21	47.3	05	03	-57.5	104.8	08	51	914	04	45	303	611	
22 D	05	55	1131	06	43	41	1090	09	59	112.9	06	39	-69.4	182.3	11	01	1045	04	20	371	674	
23	02	29	965	10	39	605	360	06	49	47.2	11	25	2.9	44.3	02	09	781	07	34	542	239	
24	05	53	932	13	27	841	991	17	07	31.5	21	20	14.7	16.8	23	59	744	13	28	666	78	
25	01	06	950	15	28	853	97	01	29	34.2	23	55	10.0	24.2	02	09	770	15	37	687	83	
26	03	59	1128	09	24	139	989	09	37	62.2	09	24	30.1	32.1	04	12	886	09	37	537	349	
27	15	29	931	12	10	754	177	15	38	32.7	11	44	12.1	20.6	21	24	759	12	17	553	206	
28	03	30	1032	09	05	699	333	05	35	37.9	04	05	6.9	31.0	05	34	782	09	31	598	184	
29 Q	23	41	940	18	04	883	57	15	39	30.6	19	58	10.5	20.1	07	08	738	18	59	704	34	
30	03	41	957	11	32	868	89	15	18	30.4	03	47	10.1	20.3	04	15	803	11	12	603	200	
31																						
Mean			1036			602	434			47.8			-11.2	59.0			845			551	294	
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 1956

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	914	913	925	940	935	937	930	930	928	901	919	842	833	891	884	877	895	906	897	891	893	906	941	922	906
2 D	935	965	918	916	915	931	906	679	587	646	675	764	620	487	808	910	900	895	914	926	884	914	963	983	835
3	960	917	914	922	915	914	925	899	790	826	867	770	706	859	911	932	904	840	844	859	906	900	898	929	880
4	900	919	915	906	908	908	913	932	917	880	888	921	928	920	913	914	899	886	883	877	888	928	909	906	907
5	906	909	913	913	914	916	925	879	389	661	764	879	930	923	914	903	891	881	866	869	866	896	909	923	864
6	920	920	922	937	961	943	940	928	919	902	873	870	915	874	877	876	878	884	865	870	880	903	924	925	904
7	921	928	928	943	938	925	925	922	888	834	906	932	930	890	899	905	898	861	833	850	864	883	914	907	901
8	920	922	923	922	932	935	898	922	919	895	905	891	926	919	921	912	898	870	870	877	873	858	901	914	905
9	914	928	917	920	926	931	931	931	902	859	896	927	901	902	919	917	916	890	883	881	899	901	908	916	909
10	921	920	922	930	930	930	928	928	928	931	931	930	928	928	926	925	919	910	895	887	887	891	897	902	918
11	915	920	925	923	923	932	931	931	918	884	897	934	929	925	925	925	920	910	900	894	893	891	900	904	914
12	915	922	925	928	929	931	932	932	932	932	930	932	932	939	938	933	925	904	899	894	899	892	905	912	921
13 Q	914	924	928	929	929	929	930	932	932	933	936	936	936	935	931	933	925	915	901	896	896	907	911	917	923
14 Q	918	925	925	925	927	931	933	932	931	932	936	936	937	932	929	925	916	907	903	902	902	910	916	918	923
15 Q	923	926	931	931	932	935	936	935	934	934	934	934	931	929	929	922	918	909	900	892	893	906	910	916	922
16	923	931	936	937	937	935	931	923	898	917	923	932	939	936	935	932	921	907	897	900	912	923	923	923	924
17 Q	929	936	939	939	946	942	943	943	939	943	943	942	939	940	935	923	909	896	884	889	898	910	918	923	927
18	923	926	935	935	941	935	932	932	932	936	934	940	936	936	936	927	917	902	892	895	903	915	921	925	925
19	929	932	932	931	921	918	921	921	925	925	930	918	927	943	939	928	912	892	883	886	895	901	915	923	919
20 D	928	936	931	931	965	970	882	872	633	463	468	402	464	366	805	840	857	805	841	890	935	939	974	983	795
21 D	975	1026	992	1031	908	963	908	693	469	677	528	565	587	587	742	916	874	811	816	882	890	900	920	908	815
22	908	908	930	966	922	903	907	911	915	914	908	916	901	816	831	858	849	864	860	861	879	879	908	908	893
23	922	937	984	954	951	948	932	882	735	879	879	828	728	826	868	890	892	883	877	886	890	911	934	922	889
24	915	911	919	919	926	926	922	916	916	915	908	922	919	923	926	918	906	901	893	893	889	902	910	911	913
25 Q	915	919	921	923	922	920	920	923	919	916	901	937	936	933	932	924	915	903	889	890	893	902	906	910	915
26 D	921	924	926	948	971	963	971	944	933	926	926	926	925	908	828	834	901	879	777	853	945	988	999	1085	925
27 D	1157	1120	1056	1031	970	933	914	714	601	603	587	775	658	877	922	926	915	898	869	841	882	904	908	893	873
28	893	912	944	979	1024	1012	850	755	755	536	430	509	512	791	868	920	908	908	898	908	898	901	918	906	831
29	895	903	906	915	911	910	922	914	899	781	707	795	885	893	885	885	872	872	885	876	886	903	906	904	880
30	904	904	908	912	915	916	915	901	808	861	832	809	846	872	889	941	922	904	901	890	888	895	904	907	889
31	908	912	912	912	912	912	916	915	908	791	885	833	885	922	926	926	902	899	893	883	886	898	906	908	898
Mean	927	932	932	937	934	933	922	893	839	836	837	850	847	862	896	910	902	887	878	883	893	905	919	924	895

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

Table 38 Meanook

D = 24° E + ...'

October 1956

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	15.9	15.6	15.4	12.9	19.1	17.8	17.5	19.3	21.2	26.6	27.9	31.5	26.6	32.5	29.1	21.2	17.8	18.7	20.3	16.3	13.9	14.9	15.9	16.7	20.2
2 D	15.9	22.6	18.3	18.0	17.3	17.4	37.4	10.6	31.3	35.5	39.6	27.6	24.2	49.2	33.5	30.3	24.8	18.7	18.3	22.7	16.8	17.9	20.8	21.7	23.7
3	19.0	18.9	19.6	22.7	18.9	18.7	24.8	21.1	10.5	35.5	30.1	21.7	14.9	30.5	29.5	29.2	29.5	26.1	17.8	5.3	12.9	18.7	20.7	19.7	21.5
4	18.3	18.8	20.0	18.8	19.3	18.8	20.1	28.3	23.9	25.5	25.8	26.7	26.6	28.5	29.4	30.3	28.9	26.7	18.4	19.9	19.9	13.9	15.6	19.6	22.6
5	19.5	18.3	18.7	18.7	18.7	18.7	19.1	20.3	37.9	35.9	28.1	20.2	25.6	26.5	28.4	30.1	30.5	28.0	26.6	20.3	10.9	12.2	15.1	15.4	22.6
6	14.6	15.4	18.2	14.8	13.2	17.0	17.7	19.9	21.2	22.2	25.8	28.1	26.6	27.5	23.7	26.2	25.7	26.6	22.7	20.0	16.2	14.6	14.0	15.9	20.3
7	15.9	13.4	15.4	16.7	16.6	17.8	19.8	20.2	20.3	16.1	20.7	21.9	22.2	23.2	25.7	25.2	31.0	32.4	21.2	17.3	12.8	12.4	15.4	13.4	19.5
8	13.9	18.3	18.1	18.1	17.3	18.3	18.8	21.7	20.5	18.7	20.3	18.3	19.9	21.9	24.8	26.8	24.8	20.3	19.2	14.9	10.0	12.9	12.9	14.1	18.5
9	15.4	13.7	20.5	18.9	18.8	18.8	18.7	18.8	20.3	25.0	32.5	25.8	22.2	19.1	24.7	29.9	28.5	30.6	20.9	17.8	15.9	15.1	15.4	15.4	21.0
10	14.4	16.9	18.6	18.4	18.8	19.6	19.8	20.1	20.1	20.1	20.7	20.9	21.7	22.7	25.4	18.1	29.1	29.9	22.7	22.5	18.7	15.9	15.1	16.2	20.3
11	16.3	16.9	17.9	18.7	17.6	18.0	18.8	19.7	19.2	17.3	17.8	21.1	22.5	22.7	24.6	26.1	28.6	28.4	26.1	21.8	19.3	18.1	16.8	17.3	20.5
12	16.6	17.8	18.2	18.3	18.3	18.3	19.1	19.7	19.8	20.3	19.5	23.2	21.2	22.5	23.7	27.1	28.6	27.4	24.7	22.2	18.7	15.8	14.4	13.4	20.4
13 G	14.9	17.0	18.7	18.5	18.5	18.5	19.0	20.0	20.7	21.7	21.6	21.0	21.3	22.0	23.4	25.5	27.1	27.9	26.1	20.7	17.8	15.4	15.0	15.4	20.3
14 G	16.3	15.9	15.9	16.2	17.3	18.3	18.8	19.1	20.2	21.2	21.3	21.2	21.3	22.4	24.1	26.6	27.8	26.4	24.7	20.3	18.9	17.7	17.3	17.3	20.3
15 G	17.1	17.6	18.1	18.3	18.6	18.9	19.5	19.8	20.1	20.3	20.5	20.7	21.0	21.0	24.7	28.1	28.1	27.9	25.9	22.7	19.3	17.1	16.3	16.3	20.8
16	16.3	16.9	17.3	17.7	17.9	18.1	19.3	23.6	29.2	32.5	26.7	23.2	21.7	21.7	23.3	25.7	27.6	27.4	23.4	20.3	17.7	16.8	16.8	16.8	21.6
17 G	17.1	16.7	17.3	16.7	15.0	15.6	17.3	19.7	19.8	21.7	22.6	23.2	23.2	23.7	26.6	28.2	29.7	27.6	23.2	19.7	18.2	17.3	17.7	17.7	20.6
18	17.0	17.8	17.7	18.3	19.0	17.9	18.4	18.7	19.0	20.3	21.7	22.2	21.9	23.2	26.1	29.1	30.3	28.1	23.2	18.7	16.6	16.6	17.8	18.0	20.7
19	17.7	17.8	18.1	18.1	19.0	18.6	18.5	21.2	22.8	21.6	21.7	21.8	24.7	24.7	27.1	29.1	28.6	23.0	19.8	16.5	15.2	14.4	16.3	17.8	20.6
20 D	18.1	17.7	17.8	16.8	18.8	19.9	23.2	24.2	14.4	18.8	34.5	34.5	52.0	43.6	27.6	26.7	26.6	24.9	09.5	16.1	19.2	14.6	18.3	19.8	23.2
21 D	16.3	10.5	19.3	22.2	26.7	22.0	20.7	17.1	12.3	14.8	30.1	62.8	36.4	27.6	20.1	29.9	27.1	23.9	07.5	13.0	17.6	19.0	17.0	18.8	22.2
22	17.3	18.3	20.0	27.1	21.7	22.7	20.4	20.3	20.7	20.7	21.0	21.7	20.9	14.9	20.7	23.6	18.6	17.2	12.8	11.8	12.9	12.9	13.3	14.8	18.6
23	14.7	19.1	21.7	19.9	22.9	20.5	19.9	15.9	20.1	18.3	24.9	23.7	23.7	30.0	22.6	20.7	17.8	16.8	15.4	17.9	19.5	18.7	17.3	20.2	
24	18.3	18.8	17.7	19.5	21.9	21.9	20.3	20.5	20.7	21.2	20.6	21.4	20.5	22.6	24.2	26.6	26.9	24.6	24.0	22.0	18.8	18.8	18.8	18.8	21.2
25 G	19.3	18.3	18.7	18.7	18.8	20.3	20.7	22.2	20.4	19.8	17.3	19.7	12.4	12.9	24.2	25.8	27.1	27.1	25.2	21.6	19.1	18.8	18.6	19.1	20.2
26 D	17.3	16.3	15.2	16.7	17.3	30.1	24.6	19.6	19.6	20.7	21.6	21.2	21.7	21.5	21.6	20.7	29.1	27.1	14.4	20.7	27.4	25.9	16.8	18.7	21.1
27 D	07.0	09.9	06.5	07.5	07.5	13.6	21.7	28.6	33.4	25.7	32.4	25.7	23.2	22.7	20.7	20.3	20.7	22.6	22.7	11.9	15.1	14.9	16.8	18.8	18.8
28	17.1	19.3	17.9	17.9	14.4	16.2	16.8	11.8	26.9	18.8	34.2	35.0	35.7	28.1	18.2	22.2	21.7	21.2	21.4	21.4	19.5	19.6	19.7	20.3	21.5
29	19.7	19.1	20.2	19.9	20.4	24.0	23.2	18.7	20.1	28.5	33.8	32.5	32.2	21.8	23.6	22.4	27.3	20.0	19.5	19.0	19.3	19.5	18.9	18.2	22.6
30	18.2	18.1	18.8	18.8	19.6	20.0	20.1	26.1	25.6	25.6	21.7	21.4	36.4	25.7	24.2	23.2	24.0	18.8	17.9	18.7	18.3	19.2	19.9	19.5	21.7
31	19.1	19.1	19.0	18.9	18.9	18.9	19.1	19.5	22.2	16.9	28.0	14.1	21.9	24.4	24.8	24.7	23.6	23.2	23.2	19.1	17.3	17.0	17.0	16.2	20.2
Mean	16.6	17.1	17.9	18.2	18.3	19.2	20.4	19.5	21.8	22.8	25.3	25.0	24.7	25.0	25.1	25.8	26.5	24.8	20.6	18.4	17.2	16.7	16.9	17.4	20.9

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

Table 39 Meanook

Z - 58,000  $\gamma$  +

October 1956

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	732	732	739	771	760	744	729	731	730	643	678	729	541	594	622	667	682	712	724	738	745	757	765	765	710
2 D	782	818	739	724	721	732	722	502	749	810	726	753	510	435	531	703	718	727	746	750	786	768	776	792	709
3	788	783	777	777	739	746	730	651	546	613	681	669	564	615	680	724	732	723	756	745	739	721	746	759	708
4	755	764	763	745	735	738	737	708	711	661	688	713	725	725	725	722	721	721	733	736	738	748	742	730	728
5	731	730	730	730	730	730	731	718	444	621	667	704	737	732	730	729	727	726	727	729	729	725	726	734	709
6	740	758	753	753	783	753	753	738	721	674	661	634	678	685	713	711	725	730	726	732	734	742	746	755	725
7	753	756	750	761	751	736	734	725	691	624	670	718	721	703	710	729	724	727	737	743	743	740	743	756	727
8	757	751	732	730	750	744	713	732	724	704	701	699	721	719	727	727	727	724	726	726	723	725	735	732	727
9	732	746	748	730	730	735	734	726	661	602	647	705	691	705	718	724	724	719	714	717	721	730	735	734	714
10	734	733	732	726	727	727	724	721	722	722	722	722	722	724	731	730	729	721	712	709	713	721	727	726	724
11	726	726	731	734	739	731	723	723	705	634	639	699	704	710	722	731	731	723	718	712	711	716	719	721	714
12	722	722	722	721	721	721	721	721	721	719	705	699	705	716	722	722	721	719	710	708	711	719	721	723	717
13 Q	727	724	721	720	720	720	721	721	719	712	718	718	718	719	720	723	721	721	714	709	709	710	711	714	718
14 Q	718	720	724	725	726	724	718	718	719	719	719	719	720	720	721	721	724	721	711	708	709	713	713	713	718
15 Q	718	718	718	718	718	718	718	718	718	718	717	717	717	718	721	725	725	719	716	716	714	714	714	714	718
16	716	717	718	718	718	718	721	708	656	688	703	697	719	721	723	725	725	723	719	718	718	716	716	717	713
17 Q	721	721	721	725	733	737	736	727	723	720	716	710	718	719	721	721	721	721	720	719	721	721	721	720	722
18	719	719	720	720	723	743	729	721	720	719	707	711	718	719	722	722	721	718	714	714	714	714	714	714	719
19	712	712	712	714	720	726	712	721	719	711	799	672	661	712	720	721	719	719	719	721	722	722	721	721	717
20 D	719	719	720	734	755	696	693	724	699	643	660	687	666	687	594	699	721	757	778	795	818	798	797	788	723
21 D	788	812	734	699	688	753	738	624	392	486	738	431	400	546	613	694	708	708	714	749	760	764	758	748	668
22	753	763	784	772	757	739	730	732	738	731	735	732	719	631	638	672	672	690	705	724	743	750	760	755	726
23	771	785	789	790	804	786	756	722	645	688	694	688	605	608	680	700	712	730	733	745	743	763	779	762	728
24	744	734	743	757	762	747	752	725	740	732	721	724	723	730	738	738	738	738	739	739	735	736	736	732	738
25 Q	732	732	730	730	731	735	721	721	721	714	707	725	723	723	725	727	729	731	731	731	729	727	729	729	726
26 D	729	730	732	757	732	721	760	757	744	737	727	726	723	710	618	569	638	664	673	738	800	813	815	739	723
27 D	810	803	761	713	677	721	718	727	578	667	553	664	613	661	712	733	738	734	738	743	755	757	766	768	713
28	753	755	784	820	851	794	745	611	624	732	721	629	729	637	703	735	735	743	751	761	756	752	757	757	735
29	753	757	750	751	746	740	739	739	721	624	598	678	721	719	718	718	712	717	740	745	751	756	750	748	725
30	747	748	753	753	753	750	740	713	667	661	609	592	609	607	607	717	732	729	738	745	752	756	753	744	707
31	740	740	735	735	734	734	733	734	719	588	656	639	656	703	718	729	729	732	732	734	739	743	743	743	716
Mean	743	746	741	740	740	737	730	708	680	678	690	687	674	679	692	713	719	722	726	732	738	740	743	740	718

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40 Meanook

October 1956

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	04	39	957	11	46	759	198	11	50	38.7	03	20	9.7	29.0	03	41	784	12	25	502	282
2 D	00	25	1060	13	16	259	801	12	15	<u>123.2</u>	07	34	<u>-44.4</u>	167.6	01	30	888	13	00	<u>222</u>	666
3	00	02	1023	12	30	585	438	09	25	42.4	19	30	-0.9	43.3	00	04	817	08	52	492	325
4	07	32	979	10	04	809	170	07	30	37.0	19	37	7.9	29.1	01	10	778	09	53	616	162
5	07	05	953	08	21	184	769	08	24	94.4	08	12	0.9	93.5	12	17	750	08	40	371	379
6	04	45	992	13	48	790	202	16	04	37.6	23	07	9.5	28.1	04	47	817	11	25	605	212
7	01	30	969	09	22	779	190	16	44	40.4	22	54	7.5	32.9	01	27	779	09	30	570	209
8	04	25	963	06	30	778	185	15	40	32.6	06	10	-2.3	34.9	05	14	776	06	18	637	139
9	11	13	950	09	01	828	122	15	50	37.7	01	41	9.5	28.2	02	13	774	09	20	568	206
10	00	24	945	22	05	876	69	16	30	35.4	22	45	11.5	23.9	01	25	747	17	52	711	36
11	12	03	947	09	24	861	86	04	36	32.2	09	20	13.7	18.5	04	13	758	09	26	606	152
12	14	03	942	21	06	882	60	16	52	31.9	23	26	12.0	19.9	08	10	727	10	54	688	41
13 Q	08	31	940	20	03	890	50	17	05	29.5	00	02	12.2	17.3	00	22	732	09	11	702	30
14 Q	06	48	939	20	28	895	44	16	14	38.6	00	10	14.5	24.1	04	08	732	06	43	709	23
15 Q	12	13	940	20	23	888	52	16	52	28.9	21	43	15.1	13.8	16	00	732	12	20	711	21
16	02	54	943	08	23	870	73	09	04	37.7	21	21	16.3	21.4	07	08	729	08	23	624	105
17 Q	04	47	954	18	25	878	76	16	52	31.7	04	48	10.7	21.0	06	43	746	11	21	702	44
18	04	47	951	19	24	884	67	16	23	31.1	04	57	11.0	20.1	04	07	753	10	34	690	63
19	13	02	947	19	57	876	71	16	05	31.1	21	23	12.5	18.6	07	07	733	11	50	604	129
20 D	05	02	1110	12	08	78	1032	14	08	92.8	09	10	-30.8	123.6	13	13	980	09	10	386	594
21 D	01	50	1129	12	06	310	819	10	08	42.8	07	10	-28.9	71.7	10	18	949	11	24	373	576
22	03	22	1051	13	32	775	276	03	50	34.6	19	00	9.4	25.2	03	00	801	13	41	611	190
23	02	22	1102	12	26	688	414	02	23	37.6	07	20	-2.3	39.9	01	55	827	13	42	562	265
24	05	00	956	19	02	874	82	16	12	29.2	02	47	15.5	13.7	04	30	781	07	30	708	73
25 Q	06	40	949	10	03	876	73	06	10	29.3	06	48	11.3	18.0	06	08	741	06	47	678	63
26 D	23	59	1222	19	32	739	483	05	40	39.9	23	27	-6.5	46.4	21	33	834	15	22	547	287
27 D	00	02	<u>1234</u>	08	07	310	924	08	01	57.4	06	13	-39.9	97.3	00	34	872	10	10	472	400
28	06	36	1104	10	17	249	855	10	15	68.9	06	18	-38.5	107.4	06	18	<u>1035</u>	11	52	499	536
29	06	52	932	10	34	587	355	10	55	46.8	17	37	14.6	32.2	01	56	773	10	30	539	234
30	15	35	976	09	21	719	257	12	29	43.5	17	15	13.0	30.5	16	04	758	12	04	545	213
31	15	16	941	09	24	689	252	09	58	31.2	09	06	-1.7	32.9	07	30	742	09	20	481	261
Mean			1000			692	308			44.1			1.4	42.7			795			572	223
No. days			31			31	31			31			31	31			31			31	31

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

Table 41 Meanook

H = 12,000  $\gamma$  +

November 1956

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	894	914	933	929	937	949	942	933	926	923	923	924	925	919	887	877	893	891	895	894	908	902	906	908	914
2	923	923	921	922	924	924	926	926	932	933	908	907	930	933	922	911	903	897	896	893	899	915	915	932	917
3	933	928	940	943	949	955	955	935	911	770	789	862	916	923	926	917	904	885	871	877	880	894	911	925	904
4	918	927	931	931	927	928	925	923	918	928	923	920	927	927	923	911	905	893	884	884	890	902	914	909	915
5 Q	912	923	932	932	932	932	932	931	934	923	929	929	930	927	925	916	902	891	883	880	887	894	902	909	916
6	919	925	938	938	933	942	934	932	935	925	934	925	931	931	925	909	886	894	880	880	880	878	909	920	917
7 Q	911	928	928	931	931	933	930	927	922	923	927	927	927	924	920	916	902	884	875	865	883	896	904	908	913
8 Q	913	923	925	931	934	941	950	940	934	931	930	930	924	923	931	925	914	894	887	887	894	903	909	912	920
9	923	925	928	934	934	939	937	933	930	925	933	933	927	942	936	923	896	908	894	886	910	909	931	941	924
10 D	949	1037	1223	1107	1080	1013	902	764	474	713	427	591	521	439	447	874	825	691	731	873	927	901	938	1000	810
11 D	1128	1114	1285	1159	1024	741	701	701	771	552	681	734	751	719	740	825	879	830	801	867	903	1031	1062	1193	883
12	1066	919	880	895	901	916	900	847	713	866	944	857	396	466	717	678	635	792	882	852	851	892	916	909	820
13	929	1001	953	948	920	903	902	899	894	887	854	762	775	873	905	909	899	888	877	880	878	884	896	889	892
14 D	896	905	972	1056	1042	917	966	800	371	557	575	635	716	716	839	918	844	886	915	865	1035	1058	1098	1141	863
15 D	1066	1032	1089	1100	1058	925	836	571	-503	-221	129	-040	456	666	894	911	911	909	890	883	909	909	927	909	717
16 D	941	997	1030	1053	916	1105	963	528	557	523	724	688	915	921	902	886	881	873	862	880	934	909	908	900	866
17	917	907	917	920	918	919	923	933	844	923	917	915	857	868	850	855	815	831	883	880	902	923	925	949	895
18	998	959	922	934	924	943	758	754	874	903	875	849	799	769	860	914	904	891	881	884	888	899	906	907	883
19 Q	909	912	912	912	912	916	917	919	918	917	916	920	919	902	905	916	909	903	891	892	895	907	911	915	910
20	920	925	927	927	928	928	927	925	917	886	905	916	919	919	823	831	894	894	892	899	907	904	912	922	906
21	913	943	1023	1023	1014	1011	980	866	678	539	616	690	600	708	933	917	891	880	891	858	898	927	931	923	861
22	990	931	937	932	952	948	907	883	783	738	869	869	501	683	860	882	835	851	863	895	905	916	1022	1099	877
23	1051	1020	1023	997	1051	981	840	816	899	785	499	581	616	699	760	857	861	855	879	900	903	889	906	906	857
24	906	912	910	918	925	922	918	918	913	913	895	868	867	883	898	907	863	863	884	900	903	893	893	903	899
25	920	924	918	928	939	934	939	924	863	783	816	897	738	150	628	935	935	899	895	895	899	904	912	909	854
26 Q	912	910	939	941	929	928	926	924	922	921	921	921	920	920	918	913	901	884	884	885	895	900	907	914	
27	917	923	929	933	941	942	937	932	935	928	927	921	921	919	916	911	903	901	905	902	881	883	902	953	919
28	1087	1063	961	922	943	932	940	945	832	777	877	916	906	910	914	922	921	910	909	906	908	907	907	908	922
29	912	921	921	926	942	940	943	945	934	928	926	928	926	924	924	926	924	905	871	898	905	900	900	912	920
30	926	932	944	967	963	947	926	924	916	914	852	875	906	910	919	919	926	926	922	916	916	906	909	913	920
31																									
Mean	950	950	966	963	954	938	913	870	795	797	811	818	809	810	862	894	882	877	879	885	902	911	926	941	888

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

Table 42 Meanook

D = 24° E + ...'

November 1956

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	19.0	20.6	20.9	25.4	26.9	20.1	21.2	23.5	24.0	24.0	25.0	25.1	25.8	27.9	26.8	27.4	27.7	27.2	28.1	25.6	22.5	21.7	21.0	20.3	24.1
2	19.3	20.5	22.9	22.5	22.5	22.5	23.5	24.0	25.8	25.0	28.0	27.9	27.1	29.0	31.8	33.7	28.2	28.9	25.1	22.0	21.3	20.0	19.1	17.3	24.5
3	17.1	22.0	22.4	21.0	22.5	27.6	29.2	24.9	23.0	30.3	21.0	28.9	28.5	30.9	28.4	28.9	32.3	32.3	26.9	24.9	20.5	19.2	21.3	20.1	25.2
4	19.4	23.3	24.8	23.2	23.7	23.1	25.9	22.4	26.4	23.5	22.0	22.7	24.7	26.5	28.4	30.6	32.5	32.8	28.1	23.4	21.9	20.9	20.0	20.5	24.6
5 Q	19.8	22.2	21.3	22.2	23.0	22.6	22.8	22.9	23.0	23.9	24.5	25.2	26.0	26.9	28.8	32.8	34.3	33.4	26.9	23.9	21.5	20.5	19.1	20.8	24.5
6	21.7	21.9	20.8	20.8	27.4	23.5	24.0	23.3	25.4	25.2	26.9	27.2	24.5	27.8	30.8	31.7	28.8	22.5	23.1	22.3	21.7	21.1	18.3	17.2	24.1
7 Q	21.5	21.0	23.0	24.5	24.7	22.4	23.8	23.3	23.2	23.2	24.1	24.6	25.1	25.9	27.7	30.8	33.5	33.2	30.0	26.6	23.5	21.3	21.0	21.5	25.0
8 Q	21.7	22.0	22.5	22.9	22.9	23.5	22.0	21.8	21.7	23.0	24.0	25.0	25.4	26.0	28.1	31.0	34.2	33.7	29.7	25.7	22.7	21.1	21.7	21.7	24.8
9	21.5	21.8	21.4	22.0	21.9	22.8	22.9	23.0	23.9	23.9	25.4	28.1	24.4	25.9	27.9	30.8	28.9	27.8	26.4	25.3	22.5	19.1	17.5	16.4	23.8
10 D	15.1	14.7	17.3	16.6	26.4	22.1	14.7	26.8	24.5	31.9	48.2	51.2	55.8	41.6	29.4	28.2	32.6	25.9	12.7	15.4	27.2	26.7	25.4	24.3	27.3
11 D	28.6	18.6	-04.5	14.7	10.7	18.8	37.7	27.7	25.4	25.4	37.7	36.2	36.7	36.7	30.9	35.2	36.5	35.2	31.3	22.2	26.9	26.9	18.9	21.0	26.5
12	26.8	25.0	27.4	26.2	27.7	27.0	26.0	30.3	44.1	30.0	24.5	33.3	48.5	39.7	33.9	14.5	05.4	22.3	20.2	14.7	19.3	23.5	24.2	23.4	26.6
13	23.3	28.9	23.9	24.2	26.1	24.6	24.9	24.5	24.8	25.4	25.0	25.4	21.5	24.5	29.2	31.9	32.2	31.3	28.9	26.2	25.3	24.9	23.5	23.5	26.0
14 D	22.9	23.2	40.1	30.3	20.2	37.4	14.2	02.5	-00.2	23.0	57.3	31.8	34.7	30.9	26.9	31.1	36.7	26.4	26.9	37.2	49.0	43.1	41.6	39.9	30.3
15 D	24.2	08.6	06.1	04.9	-11.8	02.9	12.7	14.6	24.9	37.4	43.4	55.3	55.3	41.1	30.0	31.4	31.3	30.3	28.7	24.5	28.1	27.4	27.7	25.9	25.2
16 D	29.4	47.2	27.4	22.2	14.7	22.0	22.0	12.6	24.0	59.3	39.2	25.4	28.9	28.9	29.4	28.9	31.5	32.2	28.1	26.2	26.2	23.8	22.3	23.5	28.1
17	23.5	23.5	23.5	23.5	23.7	23.8	23.5	27.8	25.0	27.3	25.2	27.7	31.1	28.4	24.5	19.7	22.5	14.2	23.0	20.1	21.0	20.7	23.0	23.2	23.7
18	20.5	23.1	24.9	26.4	26.8	22.4	03.4	14.7	20.1	22.5	23.0	23.3	24.1	26.7	25.9	29.3	31.1	29.6	26.0	21.5	22.0	22.0	22.7	24.3	23.2
19 Q	23.9	23.9	23.9	24.1	24.1	23.4	23.0	22.9	22.8	23.9	24.0	24.0	25.6	24.9	24.9	28.7	29.2	27.9	25.9	24.0	22.9	22.2	22.0	22.5	24.4
20	23.0	23.0	23.9	23.7	23.5	23.0	22.9	23.0	24.5	26.4	29.9	29.2	28.9	29.7	13.7	08.8	26.9	29.9	21.0	19.6	20.4	22.0	22.1	21.2	23.3
21	19.1	18.0	19.8	21.0	22.3	27.9	27.8	39.7	02.5	32.8	34.7	48.0	75.9	30.3	26.9	30.3	28.6	25.4	24.1	18.1	17.3	17.2	21.0	19.1	27.0
22	24.0	23.0	24.0	23.9	24.9	27.9	26.8	22.5	23.5	22.0	25.8	27.8	35.7	46.5	32.3	27.9	20.5	20.5	18.1	14.4	22.9	23.7	21.0	19.1	24.9
23	20.9	20.9	24.9	21.5	24.9	24.9	11.7	26.9	27.8	31.8	16.1	33.3	34.3	31.8	27.8	22.5	22.5	17.0	17.1	19.6	21.5	21.6	23.5	23.6	23.6
24	24.0	24.9	24.9	25.1	24.0	23.1	24.1	23.5	23.0	24.0	24.9	21.9	25.4	25.9	27.5	29.0	22.0	25.4	15.5	19.2	22.9	22.0	21.6	21.6	23.6
25	20.1	20.6	22.5	24.9	25.0	24.0	27.1	27.4	24.0	29.9	36.2	30.3	31.8	40.6	34.3	36.6	36.6	35.7	27.4	24.8	23.1	23.0	22.1	21.2	27.9
26 Q	19.0	22.5	20.6	23.9	24.9	24.9	24.1	24.1	24.0	24.2	24.7	24.9	25.2	25.2	26.2	27.4	28.6	28.9	27.9	26.8	25.8	22.9	21.0	20.9	24.5
27	20.9	21.5	22.1	22.0	20.5	19.1	20.7	22.1	22.1	23.0	26.0	25.9	25.1	25.1	25.9	27.9	28.9	27.9	27.0	25.9	24.0	21.2	18.1	18.8	23.4
28	20.8	21.2	20.5	24.0	24.9	25.6	25.8	25.1	25.7	24.0	39.0	34.7	32.7	28.4	27.0	29.4	29.9	28.8	25.4	21.9	21.9	21.7	21.7	21.7	25.9
29	22.9	22.0	22.0	22.9	20.1	20.5	21.0	22.0	22.7	24.0	25.4	25.9	26.1	25.7	26.4	27.4	27.8	32.3	23.0	19.1	21.3	21.3	21.5	21.0	23.5
30	22.9	22.9	20.0	17.6	27.6	20.1	21.9	23.1	24.9	24.9	22.1	24.9	25.4	25.8	26.0	27.0	27.7	28.9	25.1	24.9	24.0	23.1	23.0	22.1	24.0
31																									
Mean	21.9	22.4	21.8	22.2	22.2	23.1	22.4	23.1	23.2	27.2	29.1	29.8	32.0	30.2	27.9	28.4	29.0	28.3	24.9	22.9	23.7	22.9	22.2	21.9	25.1

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

Table 43 Meanook

Z = 58,000  $\gamma$  +

November 1956

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	753	757	757	783	772	782	776	764	745	735	732	730	725	721	713	701	711	722	730	733	743	740	735	732	741	
2	732	730	730	730	729	729	727	725	721	725	709	684	709	714	721	730	721	721	724	727	729	732	730	734	723	
3	759	753	750	747	762	762	756	746	719	563	550	625	678	712	737	737	737	732	734	738	745	740	745	745	720	
4	742	759	752	743	732	732	721	707	727	743	725	721	721	724	730	739	743	737	736	736	736	735	735	730	734	
5 Q	730	730	732	732	732	732	727	723	721	725	726	723	724	725	727	732	731	725	722	727	732	732	731	722	728	
6	724	725	729	739	749	739	732	726	692	694	727	721	722	721	721	717	701	701	718	730	743	743	739	747	725	
7 Q	756	758	747	752	747	738	732	725	724	721	729	724	725	725	729	735	737	732	792	814	813	814	810	803	753	
8 Q	803	803	803	803	805	805	799	822	812	804	801	801	792	789	800	804	810	813	811	812	808	804	804	803	805	
9	803	803	805	807	807	808	808	808	807	798	794	795	795	800	803	801	797	805	803	805	811	805	804	804	803	
10 D	836	903	800	811	850	829	730	695	847	769	800	603	552	695	673	706	727	684	760	854	835	831	850	853	771	
11 D	736	637	706	639	666	655	749	842	865	899	821	792	824	813	752	768	810	800	803	826	860	899	882	808	786	
12	886	868	838	839	839	848	831	751	753	825	864	800	807	700	630	727	749	833	901	866	851	852	857	860	816	
13	866	879	901	898	866	844	833	833	822	814	791	736	720	760	811	827	824	822	822	823	824	826	834	826	825	
14 D	825	825	857	896	764	652	784	784	652	714	834	881	746	746	800	815	795	811	839	836	885	891	817	684	797	
15 D	684	695	833	836	630	773	822	850	407	815	1303	1183	981	863	818	836	831	824	836	846	844	836	860	890	837	
16 D	926	896	944	856	727	771	729	782	515	629	864	851	838	838	835	835	837	827	811	825	842	838	846	836	812	
17	839	831	831	826	825	826	833	779	732	834	842	827	774	761	732	735	768	792	828	842	853	857	868	869	813	
18	881	877	868	855	854	863	706	790	771	812	788	782	760	760	785	816	825	829	829	825	825	826	826	826	816	
19 Q	823	816	815	815	815	815	814	814	814	804	804	805	809	791	783	801	803	809	814	816	816	816	816	816	810	
20	814	814	814	814	814	814	813	813	816	722	739	782	791	790	726	644	721	772	792	796	814	814	817	825	786	
21	837	873	895	885	918	894	814	630	557	717	657	565	538	752	837	837	833	825	846	842	842	854	860	875	791	
22	868	847	836	836	857	833	807	773	714	611	711	727	581	605	642	706	752	782	812	831	847	868	887	867	775	
23	881	879	846	857	881	868	746	810	814	771	811	638	446	657	695	732	773	789	790	817	821	814	824	825	783	
24	825	825	821	827	824	825	818	818	809	809	792	749	747	763	770	797	768	771	782	801	821	824	824	825	801	
25	834	833	833	826	823	815	813	749	803	749	735	790	657	646	652	764	797	803	814	814	816	817	817	815	784	
26 Q	824	834	843	824	815	815	813	812	812	812	812	812	808	808	809	813	814	814	813	818	817	815	814	814	816	
27	812	812	812	812	814	825	842	838	835	821	818	810	809	809	809	810	804	799	805	811	811	813	825	868	818	
28	863	857	857	830	840	844	812	813	803	771	786	811	803	803	812	814	811	801	803	803	803	809	811	811	815	
29	812	814	813	813	821	824	833	824	814	809	808	804	803	803	803	800	800	798	804	814	816	813	814	814	811	
30	814	808	816	844	868	836	823	817	814	803	760	782	788	782	796	799	808	805	801	800	803	807	808	812	808	
31																										
Mean	810	808	813	809	798	796	785	779	748	761	788	768	739	752	755	769	778	783	796	804	810	812	813	808	787	

MEANOOK MAGNETIC OBSERVATORY, 1956

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44 Meanook

November 1956

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	06 40	974	14 55	821	153	17 04	31.8	06 55	10.3	21.5	17 15	753	14 56	685	68
2	00 54	946	19 10	855	91	15 24	37.6	23 14	7.4	30.2	15 33	742	11 27	659	83
3	05 50	988	09 52	690	298	09 58	41.4	10 20	-1.8	43.2	05 50	791	10 10	456	335
4	07 20	957	19 46	874	83	15 26	30.3	07 27	5.2	25.1	01 27	773	07 28	674	99
5 Q	06 10	938	19 27	874	64	16 20	32.4	22 23	10.6	21.8	04 08	737	08 41	712	25
6	08 10	959	20 58	865	94	15 22	30.9	23 45	9.8	21.1	04 33	766	09 00	645	121
7 Q	04 58	943	19 12	856	87	17 22	31.2	01 38	13.4	17.8	01 46	772	09 01	711	61
8 Q	06 08	977	19 08	884	93	16 50	32.0	06 35	10.5	21.5	07 10	826	06 32	767	59
9	20 37	1002	20 32	817	185	15 54	29.1	23 25	6.0	23.1	20 39	856	20 32	772	84
10 D	02 11	1348	14 02	-80	1428	13 38	92.4	03 00	-37.8	130.2	10 34	1054	14 24	461	593
11 D	02 21	1677	09 50	375	1302	06 12	74.4	02 24	-46.9	121.3	09 36	1143	05 10	123	1020
12	00 03	1335	12 58	29	1306	13 01	95.5	16 32	-14.0	109.5	10 12	908	08 01	522	386
13	01 50	1104	11 08	708	396	01 57	41.9	12 35	12.6	29.3	03 34	942	12 46	681	261
14 D	04 35	1224	09 15	287	937	11 40	97.2	07 30	-34.5	131.7	02 26	954	09 01	501	453
15 D	02 28	1210	08 26	-649	1859	01 42	133.2	09 58	-68.8	202.0	12 02	1216	08 40	339	877
16 D	04 08	1325	06 55	-249	1574	09 44	90.1	08 23	-40.4	130.5	06 55	1086	08 20	177	909
17	23 59	972	12 50	776	196	08 33	46.1	08 04	9.4	36.7	09 35	868	07 53	652	216
18	00 51	1053	06 57	467	586	06 10	42.7	06 18	-27.2	69.9	01 08	919	06 16	502	417
19 Q	10 35	929	13 56	878	51	16 41	31.9	10 51	20.4	11.5	21 05	822	13 59	761	61
20	12 36	946	14 47	722	216	13 04	37.5	15 00	-3.0	40.5	23 05	839	15 00	614	225
21	03 13	1144	08 53	282	862	12 03	111.0	08 27	-25.2	136.2	04 09	968	12 19	427	541
22	00 17	1085	12 54	258	827	12 00	93.1	12 30	3.9	89.2	00 15	941	12 41	444	497
23	04 06	1130	10 25	283	847	12 20	51.5	06 45	3.7	47.8	04 04	945	12 15	306	639
24	15 20	934	12 55	821	113	12 57	36.0	19 03	10.7	25.3	03 32	837	11 40	723	114
25	14 10	1310	13 43	-242	1552	13 37	96.2	13 52	-13.8	110.0	13 42	848	12 52	436	412
26 Q	03 10	950	20 05	879	71	16 44	32.1	00 16	15.2	16.9	02 09	868	13 30	803	65
27	23 59	1091	20 37	866	225	16 35	32.5	23 59	9.8	22.7	23 55	978	17 40	600	378
28	00 54	1175	09 21	731	444	10 07	42.9	00 05	1.8	41.1	00 01	943	09 26	691	252
29	05 27	951	18 35	838	113	17 25	38.7	05 00	12.9	25.8	05 20	846	05 40	797	49
30	04 45	998	10 53	748	250	04 34	37.2	10 48	9.9	27.3	04 47	877	10 56	673	204
31															
Mean		1086		542	544		55.0		-4.3	59.3		894		577	317
No. days		30		30	30		30		30	30		30		30	30

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

Table 45 Meanook

H = 12,000  $\gamma$  +

December 1956

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	921	921	921	929	928	929	927	925	922	928	925	920	920	920	909	912	928	929	914	907	901	905	917	929	920
2	944	938	933	920	930	930	930	927	927	811	826	872	913	930	930	920	886	883	906	894	883	905	914	917	907
3	935	936	943	952	949	942	938	933	922	905	878	801	889	921	912	905	905	902	887	890	870	891	902	913	909
4	922	925	935	944	937	929	925	927	921	928	921	912	914	921	925	925	906	897	891	888	893	898	912	922	917
5	940	941	935	940	924	928	920	932	925	936	932	932	920	913	913	908	905	901	898	886	886	894	904	911	918
6	915	918	919	915	931	927	924	903	920	901	924	924	920	925	908	889	913	910	896	889	893	912	918	935	914
7	925	922	923	934	947	936	928	927	942	917	917	926	928	926	927	923	907	876	884	888	889	900	903	904	917
8	920	929	926	921	922	919	913	819	891	666	666	764	787	921	937	937	934	918	917	902	883	895	913	912	880
9	919	920	921	921	921	923	922	909	890	898	914	916	909	895	905	934	934	929	916	903	894	902	912	921	914
10 D	933	933	945	988	996	992	996	972	833	851	746	686	678	828	827	826	905	917	911	898	913	929	886	929	888
11 Q	936	937	932	928	934	932	929	921	918	920	921	920	920	921	921	924	920	915	904	904	905	903	905	913	920
12	919	921	924	925	925	926	925	921	907	865	921	921	924	920	916	901	880	889	890	818	853	882	894	948	905
13 D	937	943	932	929	927	924	913	893	712	838	842	748	724	834	846	869	916	920	913	916	905	901	908	912	879
14	904	904	926	913	924	936	913	912	902	846	830	921	928	926	921	910	920	911	904	902	904	901	898	908	907
15 Q	908	917	919	916	915	911	904	904	897	893	903	911	916	924	920	916	918	919	909	901	897	895	901	907	909
16 Q	908	913	913	915	916	913	911	906	900	904	916	927	921	920	919	915	915	908	904	904	904	902	905	913	911
17 Q	916	916	916	915	915	910	905	890	912	922	928	928	928	929	921	919	912	908	906	904	905	910	908	913	914
18	920	922	922	922	918	914	915	916	920	904	906	927	933	909	910	937	937	933	928	921	917	917	917	922	920
19	928	929	933	933	934	934	932	933	926	925	925	923	941	937	933	929	925	921	907	907	907	909	912	912	925
20	918	929	926	926	923	919	918	908	906	899	890	895	914	934	934	929	914	918	914	910	912	915	915	923	916
21 Q	930	932	930	929	931	936	934	934	934	934	934	939	939	939	939	937	930	929	926	918	918	918	923	929	931
22	934	929	924	922	923	946	942	937	928	918	923	918	903	883	942	942	937	930	922	913	907	911	915	930	924
23	934	934	931	931	931	931	929	923	931	928	905	903	937	934	938	938	931	923	912	903	899	904	910	922	923
24	935	949	972	959	977	969	953	938	935	931	928	923	939	939	938	938	934	923	907	895	898	911	915	926	935
25 D	928	939	942	939	939	939	939	934	934	942	934	887	761	849	882	920	929	898	863	897	905	874	903	923	908
26	938	961	970	976	970	953	977	931	769	903	898	913	931	930	926	927	926	929	915	906	893	893	901	915	923
27	922	922	923	930	935	934	924	923	923	922	904	889	907	915	920	900	885	868	877	867	846	916	914	919	908
28 D	940	1025	936	929	931	932	936	907	985	979	928	931	841	625	720	907	927	914	919	908	922	919	916	919	908
29	915	929	939	934	959	954	946	930	912	841	877	915	923	921	910	914	920	914	902	901	895	903	903	918	916
30 D	923	921	934	934	934	934	886	796	921	874	856	727	874	934	934	921	921	923	918	904	896	904	909	917	900
31	930	928	923	927	931	932	927	923	923	923	926	920	904	907	934	930	923	920	913	908	902	904	910	918	920
Mean	926	932	931	932	935	933	928	915	906	895	891	888	893	904	910	916	918	912	906	898	897	904	908	919	912

MEANOOK MAGNETIC OBSERVATORY, 1956

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

Table 46 Meenook

D = 24° E + ...'

December 1956

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	21.0	22.0	22.5	23.0	23.0	23.0	24.0	24.0	24.0	24.9	24.9	24.9	24.5	27.9	26.9	24.9	28.4	26.4	25.6	24.1	24.5	20.1	21.1	18.3	23.9
2	21.0	15.5	19.2	23.5	24.0	24.0	24.1	23.0	24.1	17.1	17.0	30.8	25.0	23.1	25.8	30.8	26.9	22.5	20.1	22.0	17.1	16.1	17.1	18.2	22.0
3	15.2	15.1	22.1	23.0	22.5	19.1	22.0	24.0	24.0	26.4	24.0	24.0	19.1	27.9	28.4	27.9	30.3	29.9	26.9	25.6	23.0	19.6	19.1	21.0	23.3
4	20.5	19.2	25.8	24.0	23.9	24.5	24.5	25.9	24.9	23.0	24.0	26.9	23.5	25.4	24.9	27.8	32.3	31.7	26.9	24.0	22.3	23.0	23.1	20.0	24.7
5	20.0	19.2	21.0	22.0	24.0	23.9	24.9	24.9	23.1	25.9	24.9	25.0	26.9	24.9	24.0	23.5	20.1	24.9	23.5	24.0	22.9	21.1	22.0	21.5	23.3
6	21.1	21.5	22.0	26.4	24.9	23.9	24.0	24.9	24.9	19.6	24.9	24.0	25.9	27.4	24.5	20.0	26.0	25.4	23.6	22.0	22.0	20.8	17.1	19.6	23.2
7	20.0	23.0	24.0	24.9	24.5	25.0	24.0	26.8	24.1	24.0	24.0	24.6	25.9	24.0	26.4	28.9	30.3	22.1	20.1	21.0	22.0	22.0	22.0	22.8	24.0
8	24.0	24.0	23.1	24.0	24.9	29.9	27.9	31.8	29.9	26.9	50.4	34.7	19.6	24.5	26.0	29.0	29.4	29.8	27.4	24.9	20.1	20.9	21.0	22.0	26.9
9	23.0	23.1	23.0	24.0	24.1	25.8	24.9	25.9	28.8	30.9	27.9	26.8	25.9	21.1	21.0	26.9	30.8	28.4	27.6	25.9	23.1	21.0	19.5	20.1	25.0
10 D	16.1	17.2	22.6	26.8	19.1	24.9	25.0	32.8	15.1	31.8	35.3	40.5	49.9	43.1	34.3	29.4	28.8	28.9	27.3	23.9	20.9	18.0	18.1	17.6	27.0
11 Q	18.1	22.0	24.0	25.5	26.0	24.9	24.5	24.5	24.9	24.9	24.9	24.1	24.6	25.4	25.8	27.4	29.0	28.9	27.4	27.4	25.0	24.1	23.0	23.0	25.0
12	23.1	23.0	23.5	23.5	23.9	24.0	23.9	24.0	24.9	27.0	26.8	27.9	27.4	25.4	23.1	24.9	22.0	25.4	23.5	16.1	09.8	16.1	18.1	13.2	22.5
13 D	21.5	22.5	22.5	24.0	24.9	24.9	24.9	24.9	27.9	31.2	29.4	31.9	34.7	19.1	19.1	17.6	25.4	28.0	26.9	25.0	23.9	21.1	22.0	21.5	24.8
14	21.5	22.1	22.9	24.9	26.9	28.9	27.4	25.9	24.9	23.0	34.7	29.0	28.4	27.4	26.9	24.0	26.9	25.9	24.5	25.5	23.1	23.5	23.5	22.5	25.6
15 Q	22.5	22.5	22.0	23.0	23.0	23.0	24.5	25.0	27.4	29.9	25.4	24.9	24.0	25.4	25.0	25.9	27.9	28.4	28.9	25.9	24.9	23.9	24.0	23.0	25.0
16 Q	24.0	23.5	23.9	24.0	21.9	21.0	22.0	24.9	25.9	25.9	24.5	25.3	25.4	25.4	25.4	25.9	26.8	26.9	27.4	26.8	25.4	24.0	23.0	23.4	24.7
17 Q	23.1	23.9	23.5	23.5	22.5	22.0	23.0	23.0	28.9	26.4	25.9	25.0	25.8	25.2	25.4	25.9	27.9	28.3	26.8	24.1	22.5	22.3	22.5	22.5	24.6
18	23.2	24.0	23.5	23.5	23.0	22.5	24.0	23.9	26.3	23.9	25.9	31.8	27.4	29.5	23.0	28.4	25.9	22.0	22.0	23.0	21.5	20.3	21.1	22.0	24.2
19	22.0	22.5	22.5	23.0	24.0	23.5	22.4	22.5	23.9	24.5	24.0	24.5	24.5	24.9	24.9	26.0	28.8	27.9	23.0	22.3	21.2	20.5	20.0	20.0	23.5
20	21.0	22.0	23.0	24.0	24.0	24.0	22.5	23.4	26.8	24.0	25.9	30.3	24.5	26.9	24.9	25.9	24.9	23.4	23.0	22.9	21.0	20.5	21.5	21.5	23.8
21 Q	22.5	22.5	23.0	24.0	24.5	24.5	24.0	23.6	24.0	23.0	23.0	24.1	24.5	24.9	25.9	26.4	27.0	26.4	24.9	23.0	21.0	20.5	20.5	21.1	23.7
22	22.0	22.0	22.9	21.6	23.0	23.5	24.5	23.1	24.0	21.0	27.8	28.9	29.9	22.0	23.0	24.5	26.9	27.9	24.9	24.0	22.1	21.1	21.0	21.0	23.9
23	22.0	22.0	22.4	23.0	23.9	24.0	24.0	23.7	24.1	25.9	24.5	22.2	25.9	24.9	24.0	25.9	28.9	28.9	28.9	25.9	23.0	21.0	21.1	19.6	24.2
24	19.2	20.1	20.1	17.2	22.0	22.1	26.8	25.4	24.0	24.0	24.0	24.5	23.5	23.0	24.0	24.9	26.0	29.9	29.8	24.0	20.1	20.1	19.1	19.2	23.1
25 D	20.0	21.0	22.0	23.0	22.5	21.9	24.9	24.1	24.9	28.9	26.4	32.8	34.7	29.9	29.8	23.9	34.3	33.8	20.1	22.0	21.0	22.5	19.1	19.2	25.1
26	16.6	18.1	13.1	15.6	24.9	22.0	21.0	23.0	26.9	25.9	27.0	24.0	21.0	22.5	24.5	25.9	27.4	27.9	26.9	25.9	23.5	21.9	21.0	21.0	22.8
27	22.0	22.0	22.9	23.1	23.0	22.9	22.0	26.9	26.9	26.4	24.9	29.9	27.9	28.0	26.4	26.4	30.8	40.7	17.6	21.1	16.1	18.0	20.0	22.0	24.5
28 D	21.6	22.0	21.0	23.0	23.1	23.0	24.5	28.9	22.8	23.0	24.0	24.0	24.9	14.2	22.0	29.9	30.3	29.8	28.9	25.0	25.4	24.0	23.1	23.1	24.2
29	23.0	22.0	22.5	22.1	22.1	24.0	27.9	25.6	26.9	21.1	24.1	28.9	24.0	24.0	24.9	24.0	28.4	29.9	27.5	27.5	25.8	22.5	21.0	21.1	24.6
30 D	21.0	22.0	21.7	22.9	23.0	23.0	24.1	24.1	30.0	28.9	27.8	45.0	32.9	28.9	25.8	27.4	29.8	29.9	27.5	25.4	21.9	19.1	19.2	21.0	25.9
31	20.9	20.0	22.0	24.1	24.9	24.5	24.0	24.0	23.9	23.1	24.2	26.4	21.0	24.1	26.9	27.2	28.8	28.9	27.4	26.0	24.1	22.5	21.3	21.1	24.2
Mean	21.1	21.3	22.3	23.2	23.6	23.8	24.3	25.1	25.3	25.2	26.6	28.0	26.6	25.5	25.3	26.0	28.0	28.0	25.4	24.1	21.9	21.0	20.8	20.7	24.3

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

Table 47 Meanook

$z = 58,000 \gamma +$

December 1956

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	814	814	814	814	814	814	814	810	803	802	799	792	786	787	777	782	797	799	802	803	807	808	814	825	804
2	837	857	862	851	829	821	823	815	803	727	751	766	792	803	814	808	797	792	803	814	810	810	816	817	809
3	827	839	851	831	821	823	823	821	809	788	765	695	744	782	792	801	810	803	802	814	814	814	809	814	804
4	814	820	852	837	820	813	809	798	794	797	787	788	787	788	798	808	803	803	803	803	812	810	810	820	807
5	824	873	825	822	818	824	820	816	791	803	809	809	797	791	787	778	783	781	797	803	810	810	810	811	808
6	813	812	815	824	825	824	814	787	782	748	781	804	803	798	771	744	776	786	795	801	821	863	851	842	803
7	827	820	818	821	824	825	814	824	829	808	803	807	803	810	808	808	808	799	809	813	814	820	820	825	815
8	830	825	815	814	814	810	770	680	753	652	542	672	694	756	798	809	809	809	809	810	815	814	824	816	772
9	824	808	810	815	818	815	810	777	727	743	770	781	771	755	761	798	803	799	808	810	814	812	814	827	795
10 D	830	841	853	851	917	886	841	803	743	797	786	782	727	744	776	721	775	797	803	810	814	825	827	847	808
11 Q	841	830	821	816	814	815	820	821	820	818	814	810	814	814	814	809	809	808	807	808	808	810	813	815	815
12	813	813	813	813	813	813	809	809	795	732	775	792	797	798	792	776	764	771	794	782	797	829	844	847	799
13 D	841	834	836	836	846	840	834	834	679	765	760	732	621	646	717	733	782	800	809	814	820	814	815	823	785
14	830	836	851	836	837	825	818	820	797	721	711	776	800	803	803	799	809	803	803	809	814	816	816	821	806
15 Q	822	816	821	821	825	824	824	809	776	755	769	776	786	789	792	801	810	808	803	803	809	814	814	813	803
16 Q	812	812	810	810	815	824	824	825	813	792	781	787	803	808	809	809	809	809	810	813	814	814	814	814	810
17 Q	812	812	812	810	813	813	814	805	805	805	810	812	809	809	809	809	809	809	812	809	809	809	809	809	810
18	805	805	807	807	807	807	804	805	813	781	751	775	798	771	717	765	783	782	792	797	798	802	803	803	791
19	803	801	802	802	802	802	799	799	799	797	782	775	792	798	798	799	799	799	798	803	803	803	808	807	799
20	812	811	808	808	810	808	808	787	774	756	707	738	751	771	797	797	797	787	787	792	792	798	801	801	787
21 Q	803	797	798	798	799	799	801	798	787	792	790	792	792	791	790	797	794	794	791	792	792	792	794	798	795
22	798	798	800	810	830	847	825	808	798	701	756	765	749	727	765	784	792	792	797	797	797	797	747	797	789
23	797	797	797	797	797	797	797	799	788	785	765	745	764	786	791	792	792	792	792	792	792	792	796	797	789
24	803	803	825	840	841	862	838	816	803	799	792	786	782	792	798	798	798	787	792	792	797	797	801	799	806
25 D	792	795	803	801	803	814	831	814	812	830	803	727	667	643	717	765	786	764	764	778	786	792	811	814	780
26	823	843	855	855	868	836	851	814	635	766	749	775	792	798	798	803	803	803	801	801	801	801	801	801	803
27	798	798	798	798	799	808	810	814	803	792	771	733	737	733	744	749	738	760	775	812	790	790	808	797	781
28 D	823	885	829	809	802	801	809	782	834	831	820	810	734	663	630	685	749	765	795	795	803	800	800	800	786
29	797	814	849	833	837	836	836	810	788	697	725	761	779	782	782	799	800	795	795	801	803	803	803	810	797
30 D	803	804	804	803	803	803	749	737	770	760	727	606	717	777	808	801	797	788	788	794	798	801	801	808	777
31	808	808	816	824	813	803	801	801	794	784	795	782	751	775	799	799	799	797	795	798	797	797	797	797	797
Mean	815	820	822	820	822	820	814	801	784	772	766	766	766	771	779	785	793	793	798	802	805	808	811	813	798

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48 Meanook

December 1956

Day	Horizontal Intensity						Declination					Vertical Intensity									
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +		Minimum 24° E +		Range	Maximum 58,000 $\gamma$ +			Minimum 58,000 $\gamma$ +		Range				
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'		h.	m.	$\gamma$	h.	m.		$\gamma$	$\gamma$		
1	16	48	942	20	20	888	54	16	45	31.3	23	27	14.2	17.1	14	02	844	23	28	763	81
2	00	46	997	10	10	739	258	01	40	37.0	01	28	9.2	27.8	00	36	888	09	32	664	224
3	06	00	972	11	32	770	202	16	30	36.6	01	10	11.5	25.1	05	55	876	11	25	670	206
4	03	24	961	17	47	876	85	02	17	35.4	02	40	14.2	21.2	02	25	891	11	54	771	120
5	01	16	964	19	58	878	86	08	14	30.3	01	19	9.0	21.3	01	30	922	08	23	767	155
6	10	50	939	15	00	863	76	07	57	31.0	15	07	13.7	17.3	21	28	887	15	33	709	178
7	14	28	971	17	45	861	110	15	28	34.9	17	48	16.8	18.1	08	09	846	09	56	790	56
8	14	02	956	10	30	472	484	10	17	61.2	09	22	12.3	48.9	00	31	835	10	20	414	421
9	15	47	943	08	19	834	109	09	23	34.8	14	13	17.5	17.3	23	45	833	08	19	687	146
10 D	06	55	1044	12	10	470	574	12	26	64.6	08	11	-13.8	78.4	04	24	945	11	42	557	388
11 Q	01	18	950	21	02	894	56	17	05	31.3	00	15	15.6	15.7	00	18	853	17	02	803	50
12	23	38	965	19	30	792	173	12	01	29.8	21	41	1.9	27.9	23	58	870	09	37	700	170
13 D	16	27	949	08	03	574	375	08	52	63.6	08	05	-34.5	98.1	07	47	855	08	25	541	314
14	05	35	957	09	52	794	163	10	40	41.6	09	38	15.6	26.0	02	31	857	09	55	645	212
15 Q	13	43	932	09	10	880	52	09	40	33.3	23	28	21.7	11.6	05	07	834	09	32	736	98
16 Q	12	40	930	08	30	896	34	19	31	28.1	05	43	18.6	9.5	07	43	835	10	35	767	68
17 Q	11	56	933	07	31	878	55	08	16	32.4	07	26	25.2	7.2	08	37	823	08	55	792	31
18	11	47	949	14	07	874	75	11	17	35.1	14	08	11.7	23.4	08	28	823	15	19	673	150
19	11	40	939	22	37	901	38	17	24	30.1	23	49	17.6	12.5	22	22	814	12	17	760	54
20	13	36	941	10	31	875	66	11	12	33.7	10	02	15.1	18.6	04	52	817	10	25	681	136
21 Q	12	07	945	03	12	919	26	15	35	28.4	21	30	18.7	9.7	00	50	807	10	37	781	26
22	05	43	958	13	29	847	111	12	16	42.4	09	50	14.7	27.7	05	16	860	09	29	618	242
23	13	40	946	10	56	872	74	16	50	30.8	23	15	18.6	12.2	07	47	807	11	41	729	78
24	04	17	990	20	05	882	108	17	16	31.5	02	58	10.8	20.7	05	44	870	12	05	762	108
25 D	12	28	1019	12	21	543	476	12	05	63.1	12	30	14.0	49.1	09	19	858	12	48	536	322
26	04	00	1013	12	20	574	439	08	46	53.6	09	18	-4.2	57.8	03	55	911	08	16	457	454
27	21	04	967	20	55	784	183	17	18	47.1	22	05	7.9	39.2	19	12	833	10	59	700	133
28 D	01	39	1004	13	31	505	499	14	34	41.1	13	44	3.1	38.0	02	37	925	14	31	576	349
29	02	30	992	09	30	745	247	11	40	31.7	09	18	11.9	19.8	02	25	889	09	26	641	248
30 D	10	27	957	07	12	622	335	11	36	58.8	07	25	5.6	53.2	07	29	835	11	44	513	322
31	14	07	942	12	55	876	66	12	45	28.5	12	49	16.6	11.9	03	32	833	12	40	738	95
Mean			963			780	183			39.1			10.7	28.4			857			675	182
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.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24

HORIZONTAL INTENSITY (gammas) (All Days)

Table 49 Meanook

1956

January	26	41	35	47	38	43	30	9	-34	-54	-62	-80	-51	-27	-21	-3	6	5	-3	-2	2	11	15	24
February	25	23	30	31	39	38	10	-14	-35	-25	-33	-57	-32	0	6	-11	-5	4	1	-7	-8	-3	7	15
March	51	59	64	57	41	45	39	-16	-44	-72	-85	-66	-44	-38	-26	-4	-9	-15	-24	-19	-4	22	33	46
April	83	74	74	75	40	36	-36	-50	-44	-34	-86	-78	-47	-23	-27	-29	-21	-28	-23	-14	-1	25	48	81
May	114	113	104	79	60	13	-29	-46	-69	-111	-136	-146	-126	-92	-61	-13	4	8	13	12	34	61	93	108
June	67	74	65	57	34	17	-23	-63	-63	-56	-55	-59	-48	-8	-12	-12	-11	-5	-7	-7	3	19	48	52
July	49	41	40	30	29	21	-5	-31	-72	-54	-56	-39	-27	-14	-5	4	1	-2	-7	-1	6	16	28	48
August	58	48	46	41	36	23	9	-1	5	-13	-56	-60	-35	-46	-47	-39	-18	-28	-24	-15	0	19	36	53
September	35	36	50	56	50	30	14	-4	-15	-61	-86	-76	-44	-39	-10	-7	-4	-6	-8	-3	6	19	28	32
October	32	37	37	42	39	38	27	-2	-56	-59	-58	-45	-48	-33	1	15	7	-8	-17	-12	-2	10	24	29
November	62	62	78	75	66	50	25	-18	-93	-91	-77	-70	-79	-78	-26	6	-6	-11	-9	-3	14	23	38	53
December	14	20	19	20	23	21	16	3	-6	-17	-21	-24	-19	-8	-2	4	6	0	-6	-14	-15	-8	-4	7
Year	51	52	54	51	41	31	7	-19	-44	-54	-68	-66	-50	-34	-19	-7	-4	-7	-10	-7	3	18	33	46
Winter	32	36	40	43	42	38	20	-5	-44	-47	-48	-58	-45	-28	-11	-1	0	0	-4	-7	-2	6	14	25
Equinox	50	52	57	58	42	37	11	-18	-40	-56	-79	-69	-46	-33	-15	-6	-7	-14	-23	-12	0	16	33	47
Summer	72	69	64	52	40	18	-10	-35	-50	-58	-76	-73	-58	-40	-31	-15	-6	-7	-6	-2	11	29	51	65

DECLINATION (minutes) (All Days)

Table 50 Meanook

1956

January	-2.8	-0.9	-1.4	-0.1	1.9	2.6	0.8	-0.1	0.1	-0.1	4.6	3.1	4.2	3.0	0.4	1.8	1.6	-0.7	-1.1	-1.7	-4.0	-4.2	-3.5	-2.6
February	-3.6	-2.9	-2.6	-0.2	0.3	0.1	0.4	-0.2	-3.0	-1.1	2.3	1.9	1.0	0.8	3.6	4.4	4.4	3.7	2.8	0.5	-2.2	-3.4	-4.0	-3.8
March	-4.9	-4.5	-5.3	-3.7	-2.7	-2.3	0.9	-1.1	0.8	0.0	1.3	2.7	2.4	3.6	6.4	7.5	8.0	6.1	3.5	-1.6	-2.9	-3.1	-4.6	-5.4
April	-6.9	-6.0	-9.5	-7.9	-6.9	-4.8	-2.5	-4.0	-0.7	2.0	2.5	4.7	5.3	8.3	10.0	10.4	9.7	7.2	3.6	0.1	-2.6	-3.0	-3.8	-5.2
May	-5.6	-4.6	-3.7	-7.3	-5.9	-4.1	-4.9	-4.5	-2.3	0.5	2.0	1.7	8.2	11.2	11.2	11.3	9.2	5.5	2.0	-2.8	-5.3	-4.3	-3.4	-3.7
June	-4.4	-3.3	-3.5	-3.1	-2.2	-1.9	-1.2	-3.4	-2.5	-1.8	-2.1	-1.6	3.7	7.3	9.6	11.1	10.2	7.5	3.9	-1.5	-4.7	-5.4	-5.9	-5.2
July	-4.3	-3.9	-2.5	-2.0	-2.2	-1.6	-0.3	-2.4	-3.4	-0.2	-0.4	0.5	4.3	9.2	10.2	10.6	10.5	6.9	0.7	-2.8	-6.2	-7.1	-6.9	-5.6
August	-2.1	-1.4	-2.1	-1.8	-2.7	-3.3	-3.9	-2.5	-1.1	-0.8	-1.0	3.6	7.4	8.9	10.8	12.9	9.7	4.4	-2.4	-6.3	-8.3	-7.4	-5.8	-3.8
September	-3.0	-2.9	-2.2	-2.4	-3.8	-5.8	-5.3	-3.8	-2.6	0.7	3.5	4.8	6.5	7.4	9.2	10.4	7.0	4.3	0.2	-3.7	-5.2	-5.3	-4.6	-3.8
October	-4.3	-3.8	-3.0	-2.7	-2.6	-1.7	-0.5	-1.4	0.9	1.8	4.4	4.1	3.8	4.1	4.2	4.9	5.6	3.9	-0.3	-2.5	-3.7	-4.2	-4.0	-3.5
November	-3.2	-2.7	-3.3	-2.9	-2.9	-2.0	-2.7	-2.0	-1.9	2.1	4.0	4.7	6.9	5.1	2.8	3.3	3.9	3.2	-0.2	-2.2	-1.4	-2.2	-2.9	-3.2
December	-3.2	-3.0	-2.0	-1.1	-0.7	-0.5	0.0	0.8	1.0	0.9	2.3	3.7	2.3	1.2	1.0	1.7	3.7	3.7	1.1	-0.2	-2.4	-3.3	-3.5	-3.6
Year	-4.0	-3.3	-3.4	-2.9	-2.5	-2.1	-1.6	-2.1	-1.2	0.7	1.9	2.8	4.7	5.8	6.6	7.5	7.0	4.6	1.2	-2.1	-4.1	-4.4	-4.4	-4.1
Winter	-3.2	-2.4	-2.3	-1.1	-0.4	0.0	-0.4	-0.4	-0.9	0.4	3.3	3.4	3.6	2.5	2.0	2.8	3.4	2.5	0.7	-0.9	-2.5	-3.3	-3.5	-3.3
Equinox	-4.8	-4.3	-5.0	-4.2	-4.0	-3.7	-1.8	-2.6	-0.4	1.2	2.9	4.1	4.5	5.8	7.5	8.3	7.6	5.4	1.8	-1.9	-3.6	-3.9	-4.3	-4.5
Summer	-4.1	-3.3	-2.9	-3.5	-3.2	-2.7	-2.6	-3.2	-2.3	0.5	-0.4	1.0	5.9	9.2	10.2	11.5	9.9	6.1	1.1	-3.4	-6.1	-6.0	-5.5	-4.6

VERTICAL INTENSITY (gammas) (All Days)

Table 51 Meanook

1956

January	28	36	34	34	36	35	25	7	-7	-28	-48	-48	-56	-53	-44	-25	-18	-12	2	12	20	20	27	22	
February	20	22	19	24	21	14	7	-4	-2	-20	-12	-28	-25	-23	-19	-13	-14	-7	-3	3	9	11	14	19	
March	19	19	27	23	14	11	-11	-18	-26	-31	-48	-26	-29	-30	-19	-5	-7	-2	7	12	21	30	34	29	
April	12	5	-25	-4	-3	8	-14	-9	-20	-9	-13	-19	-19	-17	-15	-9	-5	1	9	16	26	36	37	33	
May	19	20	7	5	8	13	9	-8	-16	-22	-30	-31	-35	-28	-42	-23	-7	3	10	19	26	32	31	27	
June	50	39	35	23	25	14	5	-20	-51	-54	-52	-36	-39	-28	-26	-14	-10	-2	2	6	15	30	41	45	
July	41	37	37	31	24	14	-21	-44	-46	-31	-23	-26	-19	-23	-16	-15	-8	-5	-3	1	5	16	31	41	
August	37	31	24	22	20	5	-10	-17	-27	-30	-39	-28	-29	-28	-29	-26	-8	-6	3	12	23	32	37	42	
September	21	26	22	18	4	-11	-6	-17	-5	-10	-21	-26	-31	-34	-14	-24	-1	3	7	15	20	23	21	21	
October	25	28	23	22	18	12	19	12	-10	-38	-40	-28	-31	-44	-39	-26	-5	1	4	8	14	20	22	25	22
November	23	21	26	22	11	9	-2	-8	-39	-26	1	-19	-48	-35	-32	-18	-9	-4	9	17	23	25	26	21	
December	17	22	24	22	24	22	16	3	-14	-26	-32	-32	-32	-27	-19	-13	-5	-5	0	4	7	10	13	15	
Year	26	26	21	20	17	13	1	-12	-24	-27	-29	-29	-34	-30	-25	-16	-8	-3	4	11	18	24	28	28	
Winter	22	25	26	26	23	20	12	0	-15	-25	-23	-32	-40	-34	-28	-17	-12	-7	3	9	15	16	20	19	
Equinox	19	20	12	15	9	7	-5	14	-22	-22	-28	-26	-31	-30	-18	-11	-3	-3	8	14	22	28	29	26	
Summer	37	32	26	20	19	12	-4	22	-35	-34	-36	-30	-31	-27	-28	-20	-8	2	3	10	17	28	35	39	

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

Hour U. T. Month Season	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24
<b>HORIZONTAL INTENSITY (gammas) (Quiet Days)</b>																								
Table 52 Meanook <span style="float: right;">1956</span>																								
January	0	3	5	3	3	3	1	4	-4	-18	-14	2	0	6	10	10	10	4	-1	-5	-7	-7	-6	0
February	1	0	1	2	3	3	4	3	3	2	6	4	5	8	9	9	5	-2	-13	-14	-13	-11	-10	-3
March	0	3	5	5	6	7	7	6	7	10	10	5	15	14	10	9	-1	-11	-22	-26	-24	-17	-11	-6
April	7	11	13	13	13	9	8	6	11	12	7	5	-2	14	12	6	-10	-18	-22	-26	-24	-23	-18	-1
May	5	9	5	3	-2	0	4	9	7	5	9	10	15	16	9	-3	-14	-23	-22	-19	-15	-8	-2	5
June	30	28	19	7	7	6	7	4	-12	5	-7	5	5	7	8	-6	-19	-30	-35	-33	-20	-6	17	15
July	4	12	7	6	5	3	2	4	6	7	5	8	7	5	2	-2	-13	-19	-29	-19	-11	-2	5	8
August	15	11	4	8	10	8	6	9	9	10	12	13	15	18	13	-3	-24	-42	-46	-40	-24	-6	7	18
September	-1	2	5	8	9	11	12	12	13	12	9	11	11	10	3	-10	-20	-32	-31	-25	-16	-5	1	11
October	-2	4	7	7	9	9	10	11	9	9	8	15	14	12	9	3	-6	-16	-27	-28	-26	-15	-10	-5
November	-3	4	12	15	13	15	16	14	9	9	10	11	9	4	5	3	-7	-20	-31	-33	-26	-16	-10	-5
December	2	6	5	4	4	3	0	-6	-5	-2	1	6	9	10	7	6	2	0	-6	-11	-11	-12	-9	-2
Year	5	8	7	7	7	6	6	6	4	5	5	8	9	10	8	2	-8	-17	-24	-23	-18	-11	-4	3
Winter	0	3	6	6	6	6	5	4	1	-2	1	6	6	7	8	7	2	-4	-13	-16	-14	-12	-9	-2
Equinox	1	5	7	8	9	9	9	9	10	11	8	9	10	12	8	2	-9	-19	-25	-26	-22	-15	-10	0
Summer	14	15	9	6	5	4	5	6	2	7	5	9	10	12	8	-3	-18	-28	-34	-28	-18	-5	7	12
<b>DECLINATION (minutes) (Quiet Days)</b>																								
Table 53 Meanook <span style="float: right;">1956</span>																								
January	-1.6	-1.5	-0.6	0.0	0.1	-0.1	1.5	0.5	-0.5	-1.1	-1.6	-1.6	-0.8	0.2	0.9	2.0	3.2	2.7	1.3	0.2	-0.7	-2.2	-2.1	-2.2
February	-2.6	-1.4	-1.1	-1.2	0.2	-0.3	-0.2	-0.2	-0.2	0.5	0.2	0.9	0.6	1.0	2.7	4.2	4.8	2.9	0.4	-1.8	-2.3	-3.2	-3.8	-3.8
March	-3.3	-2.6	-1.7	-1.3	-1.1	-1.0	-0.9	-0.1	1.6	0.8	0.5	-1.1	0.9	1.7	3.1	5.8	6.3	5.5	3.6	0.0	-3.0	-4.2	-4.9	-4.6
April	-5.2	-4.0	-2.4	-2.0	-1.6	-1.2	-0.2	-0.8	0.1	0.0	0.3	0.2	2.7	7.1	9.4	10.0	9.0	5.4	1.1	-2.0	-5.1	-6.7	-6.6	-6.5
May	-3.1	-2.3	-0.9	-0.9	-1.5	-1.6	-1.1	-1.2	-0.7	-1.4	-0.7	1.5	4.3	7.0	9.7	9.2	7.0	4.4	-0.2	-4.5	-6.7	-6.6	-4.5	-4.5
June	-3.0	-1.4	-0.5	-1.5	-2.6	-2.4	-1.6	-1.1	-2.4	-1.1	-2.9	-1.7	4.2	8.3	8.0	8.3	9.1	6.9	1.9	-1.3	-3.9	-6.2	-6.9	-6.2
July	-4.2	-3.4	-1.6	-1.6	-1.0	-1.5	-1.8	-1.6	-1.7	-1.6	-0.6	1.4	4.1	7.2	8.4	12.2	12.4	7.8	0.4	-3.9	-7.2	-8.1	-7.7	-8.1
August	-1.6	-0.4	-1.1	-2.0	-2.0	-2.0	-2.0	-1.3	-0.6	0.3	1.1	3.1	6.2	8.9	11.0	11.9	10.3	4.9	-2.6	-8.0	-10.9	-10.4	-8.4	-4.4
September	-2.0	-3.0	-3.0	-2.8	-2.6	-2.1	-2.4	-1.4	-0.9	0.3	1.2	2.8	3.8	6.1	8.7	9.5	7.4	5.0	-1.0	-4.5	-6.6	-5.6	-3.6	-3.4
October	-3.5	-3.3	-2.7	-3.8	-2.8	-2.1	-1.4	-0.2	-0.2	0.5	0.2	0.8	-0.6	0.0	4.2	6.4	7.6	7.0	4.6	0.6	-1.8	-3.2	-3.4	-3.2
November	-3.4	-2.3	-2.4	-1.1	-0.7	-1.3	-1.5	-1.6	-1.7	-1.0	-0.4	0.1	0.8	1.2	2.5	5.5	7.3	6.8	3.5	0.8	-1.3	-3.0	-3.7	-3.1
December	-2.5	-3.6	-1.2	-0.5	-0.9	-1.4	-0.9	-0.3	1.7	1.5	0.2	0.2	0.4	0.8	1.0	1.8	3.2	3.3	2.6	0.9	-0.8	-1.6	-1.9	-1.9
Year	-3.0	-2.4	-1.6	-1.5	-1.4	-1.4	-1.0	-0.8	-0.5	-0.2	-0.2	0.5	2.2	4.1	5.7	7.1	7.3	5.4	1.5	-1.8	-4.2	-5.0	-4.8	-4.2
Winter	-2.5	-2.2	-1.3	-0.7	-0.3	-0.8	-0.3	-0.4	-0.2	-0.2	-0.4	-0.3	0.3	0.7	1.4	3.0	4.5	4.4	2.6	0.6	-1.2	-2.3	-2.7	-2.8
Equinox	-3.5	-3.2	-2.5	-2.4	-2.0	-1.6	-1.2	-0.6	0.1	0.4	0.6	0.7	1.7	3.7	6.4	7.9	7.6	5.7	2.1	-1.5	-4.1	-4.9	-4.6	-4.4
Summer	-3.0	-1.9	-1.0	-1.5	-1.8	-1.9	-1.6	-1.3	-1.4	-0.9	-0.8	1.1	4.7	7.9	9.3	10.4	9.9	6.0	-0.1	-4.4	-7.2	-7.8	-7.2	-5.3
<b>VERTICAL INTENSITY (gammas) (Quiet Days)</b>																								
Table 54 Meanook <span style="float: right;">1956</span>																								
January	6	7	8	8	7	7	8	6	-7	-23	-28	-5	-12	-7	2	4	3	1	2	2	1	4	3	3
February	6	4	4	3	4	-1	8	0	-1	-6	-4	-4	-8	-10	-5	0	0	0	-4	1	2	3	2	4
March	8	5	4	4	4	4	4	0	-12	-9	-6	-13	-2	0	1	-1	-4	-3	-3	0	4	7	7	7
April	10	12	10	10	11	13	3	-6	-2	-4	-11	-20	-13	-8	-3	-4	-4	-6	-6	-3	1	2	5	8
May	9	11	8	5	3	4	1	-2	-8	-13	-10	-3	2	2	-1	-2	-4	-6	-8	-4	0	2	5	10
June	29	26	22	11	6	4	3	-1	-6	-12	-30	-20	-10	-10	-4	-2	-7	-11	-8	-7	-5	5	19	26
July	11	15	15	11	8	2	1	-2	-2	-3	-11	-5	-3	-4	-6	-9	-9	-8	-9	-5	3	8	9	9
August	15	10	5	4	7	5	-2	-1	-6	-6	-4	-1	0	-3	-4	-7	-11	-10	-10	-7	1	6	8	11
September	5	4	2	2	4	5	3	5	0	4	-4	-8	-2	-1	-2	-4	-4	-6	-7	-3	2	4	1	3
October	3	2	2	3	5	6	2	0	-1	-4	-5	-3	-1	-1	1	3	3	2	-2	-4	-4	-4	-3	-3
November	14	5	5	2	0	-2	-6	-4	-6	-10	-8	-10	-11	-15	-13	-6	-4	-4	8	15	14	13	12	9
December	12	7	6	4	7	8	10	5	-6	-14	-14	-11	-6	-4	0	0	-1	-2	-2	0	1	2	3	3
Year	11	9	8	6	6	5	3	0	-5	-8	-11	-8	-6	-5	-3	-2	-3	-4	-4	-2	1	4	6	8
Winter	10	6	6	4	5	3	5	2	-5	-13	-13	-8	-9	-9	-5	0	0	-1	1	4	4	5	5	5
Equinox	7	6	5	5	6	7	3	0	-4	-3	-6	-11	-5	-2	-1	-1	-1	-3	-5	-3	0	2	3	4
Summer	16	15	13	8	6	4	1	-2	-6	-8	-14	-7	-3	-4	-4	-5	-8	-9	-8	-7	-2	4	10	14

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

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
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24

HORIZONTAL INTENSITY (gammas) (Disturbed Days)

Table 55 Meanook 1956

January	88	143	113	140	95	136	110	27	-134	-182	-261	-317	-248	-116	-106	19	44	29	29	51	68	88	79	104
February	114	86	90	107	146	147	-2	-88	-198	-144	-158	-224	-118	29	18	-112	-72	30	51	44	37	56	78	82
March	122	148	168	168	141	127	98	-93	-145	-213	-262	-153	-160	-147	-148	-47	-43	-9	-24	7	63	132	129	142
April	278	204	175	193	37	60	-160	-234	-110	-126	-283	-289	-148	-56	-93	-96	-43	-50	-16	29	78	146	201	305
May	444	421	395	237	143	-108	-270	-167	-142	-281	-376	-385	-495	-461	-265	-61	17	71	114	73	187	248	358	343
June	168	221	216	191	61	-7	-170	-131	-83	-107	-116	-178	-81	-20	-83	-90	-64	-3	16	15	18	33	70	124
July	108	90	90	79	70	57	-14	-26	-215	-208	-303	-188	-85	-73	-22	36	33	36	33	53	80	98	110	160
August	215	183	187	147	116	50	-7	-90	-30	-126	-188	-101	-148	-229	-220	-203	1	-11	6	23	53	86	125	163
September	84	125	180	208	147	24	15	33	-82	-259	-361	-314	-136	-167	-36	-23	47	49	53	65	82	91	91	83
October	142	-32	124	130	105	111	75	-61	-196	-178	-204	-155	-190	-196	-20	44	48	17	2	37	66	88	112	128
November	168	189	292	267	196	112	46	-155	-494	-403	-321	-306	-156	-136	-64	55	40	10	12	46	114	134	158	200
December	36	55	41	47	49	47	37	4	-20	0	-36	-101	-121	-83	-55	-8	23	18	8	8	11	9	8	23
Year	164	153	173	160	109	63	-20	-83	-154	-186	-239	-226	-174	-138	-91	-40	3	16	24	38	70	101	127	155
Winter	101	118	134	140	122	110	48	-53	-212	-182	-194	-237	-161	-76	-52	-11	9	22	25	37	58	72	81	102
Equinox	187	111	162	175	108	81	7	-89	-133	-194	-277	-228	-159	-142	-74	-30	2	2	4	35	72	114	133	165
Summer	234	229	222	164	97	-2	-115	-108	-117	-181	-246	-213	-202	-196	-147	-79	-3	23	42	41	80	116	166	198

DECLINATION (minutes) (Disturbed Days)

Table 56 Meanook 1956

January	-6.0	-1.3	-1.6	1.9	8.0	9.1	2.2	-4.2	2.7	0.1	15.1	4.2	9.2	10.0	-2.4	-0.2	-2.7	-8.0	-7.8	-6.1	-7.1	-6.7	-5.9	-2.6
February	-4.9	-5.0	-5.5	3.8	-3.6	1.3	3.0	4.7	-13.1	-6.1	11.5	4.3	0.3	-2.2	13.1	9.8	2.7	-1.8	2.7	1.2	-1.9	-4.8	-4.4	-4.6
March	-4.6	-4.1	-12.3	-7.8	-7.8	-4.6	-0.1	-8.5	-0.9	-7.5	0.0	11.0	6.0	9.3	13.3	8.1	6.4	3.3	6.7	-4.8	0.5	3.3	-1.6	-3.2
April	-13.5	-12.5	-35.4	-33.3	-29.7	-17.1	-8.8	-10.9	-4.4	12.6	3.6	15.8	14.4	15.8	16.3	17.9	17.0	17.1	14.1	10.7	3.9	5.4	3.2	-2.5
May	-7.7	-3.8	-4.4	-32.9	-30.9	-14.7	-19.8	-14.5	-6.3	-1.0	6.8	-2.0	15.4	20.2	15.8	15.7	17.0	10.6	2.4	2.8	4.2	8.6	12.8	5.6
June	-4.4	-3.2	-8.2	-10.1	-7.8	-3.2	-2.0	-3.0	-1.8	-1.1	-2.0	-4.9	2.8	9.7	10.7	12.6	8.7	7.2	5.5	0.9	-0.8	-2.0	-2.6	-1.3
July	-4.7	-4.3	-4.0	-0.5	-2.9	-6.2	-3.0	-5.6	-9.3	-4.9	0.3	3.6	10.0	12.5	11.4	9.7	8.3	4.9	-2.4	-3.8	-6.7	-4.7	-3.6	-3.8
August	0.8	-3.6	-5.6	-2.4	-7.3	-6.6	-6.6	-8.6	-0.5	0.2	2.0	8.0	7.9	9.4	10.8	17.8	8.9	3.4	-2.6	-7.6	-8.4	-5.6	-2.6	-0.8
September	-3.8	-3.8	-1.0	4.4	-7.7	-25.7	-21.3	-9.6	-14.6	0.1	12.7	17.6	17.1	15.5	14.3	19.7	6.5	4.3	-0.8	-8.5	-4.9	-4.6	-3.6	-2.2
October	-8.9	-6.4	-6.4	-5.6	-4.3	-1.2	3.7	-6.0	0.4	1.3	9.8	12.6	9.7	11.1	2.9	3.8	3.9	1.6	-7.3	-4.9	-2.6	-3.3	-3.8	-2.2
November	-3.4	-5.0	-10.2	-9.7	-15.4	-6.8	-7.2	-10.6	-7.8	7.9	17.7	12.5	14.8	8.4	1.8	3.5	6.2	2.5	-1.9	-2.4	4.0	2.1	-0.3	-0.8
December	-8.5	-2.7	-3.6	-1.6	-3.0	-2.0	-0.9	1.4	0.8	3.2	3.0	9.3	9.8	1.5	0.8	0.1	4.2	4.5	0.6	-1.3	-3.0	-4.6	-5.3	-5.1
Year	-5.4	-4.6	-8.2	-7.8	-9.4	-6.5	-1.5	-6.3	-4.6	1.2	6.7	7.7	9.8	10.1	9.1	9.9	7.3	4.1	0.8	-2.0	-1.9	-1.4	-1.5	-2.0
Winter	-5.0	-3.5	-5.2	-1.4	-3.5	0.4	-0.7	-2.2	-4.4	1.3	11.8	7.6	8.5	4.4	3.3	3.3	2.6	-0.7	-1.6	-2.2	-2.0	-3.5	-4.0	-3.3
Equinox	-7.2	-6.7	-13.8	-10.6	-12.4	-12.1	-6.6	-8.8	-4.9	1.6	6.5	14.3	11.8	12.9	11.7	12.4	8.5	6.6	3.2	-1.9	-0.8	0.2	-1.5	-2.5
Summer	-4.0	-3.7	-5.6	-11.5	-12.2	-7.8	-7.8	-7.9	-4.5	0.7	1.8	1.2	9.0	13.0	12.2	14.0	10.7	6.5	0.7	-1.9	-2.9	-0.9	1.0	-0.1

VERTICAL INTENSITY (gammas) (Disturbed Days)

Table 57 Meanook 1956

January	59	99	81	72	74	59	46	-02	-52	-26	-90	-84	-142	-139	-112	-62	-41	-34	10	49	68	59	55	53
February	35	50	34	28	7	-7	-48	-7	8	-67	54	22	8	18	-31	-54	-81	-39	-16	-4	8	13	31	36
March	19	24	36	14	-40	7	-64	-67	-32	-1	-36	52	-59	-61	-56	-6	-30	0	41	44	69	62	55	27
April	-59	-92	-239	-124	-108	-48	-74	44	52	77	80	34	-2	13	-1	12	12	20	46	60	77	79	72	67
May	-59	-54	-115	-126	-66	4	95	96	134	38	26	-16	-72	-43	-98	-32	-7	27	44	70	77	63	17	-2
June	81	52	42	-17	22	-9	35	4	-21	-46	-78	-87	-57	-38	-74	-58	-41	4	21	26	31	48	75	85
July	71	43	42	38	16	-1	-74	-51	-74	-7	-51	-99	-14	-42	-24	-22	-23	-15	0	26	44	54	73	92
August	62	41	31	33	49	14	-21	-69	-97	-100	-78	-40	-73	-64	-33	-73	-1	2	24	40	72	91	91	101
September	16	40	46	20	-69	-91	-2	-29	17	27	-5	32	-25	-90	-21	-110	12	19	24	42	41	38	35	30
October	58	69	30	18	7	17	19	-40	-75	-39	-26	-55	-125	-100	-94	-28	-3	11	22	48	76	73	75	60
November	1	-9	27	7	-73	-65	-38	-10	-143	-35	124	61	-12	-10	-25	-9	-1	-11	9	37	53	58	50	14
December	31	45	38	33	47	42	26	7	-19	10	-8	-56	-94	-92	-57	-46	-9	-4	5	11	17	19	24	31
Year	26	26	4	0	-11	-6	-8	-10	-25	-14	-7	-20	-56	-54	-52	-41	-18	-2	19	37	53	55	54	50
Winter	31	46	45	35	14	7	-3	-3	-51	-29	20	-14	-60	-56	-56	-43	-33	-22	2	23	37	37	40	34
Equinox	8	10	-32	-18	-52	-28	-30	-23	-10	16	4	16	-53	-59	-43	-33	-2	12	33	48	66	63	59	46
Summer	39	21	0	-18	5	2	9	-5	-14	-29	-45	-61	-54	-47	-57	-46	-18	4	22	40	56	64	64	69





