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RECORD OF OBSERVATIONS AT  
MEANOOK MAGNETIC OBSERVATORY  
1947 – 1948

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

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# MEANOOK MAGNETIC OBSERVATORY

Geographic Coordinates: 54° 37'N; 113° 20'W

Geomagnetic Coordinates: 61.8°N; 301.0°E

Officer-in-Charge: H.E. Cook

Assistant: Anne B. Cook

1947 - 1948

## Introduction

Meanook Magnetic Observatory has been in continuous operation since July 1916 with H.E. Cook as resident Officer-in-Charge. The observatory is a section of the Division of Geomagnetism, Dominion Observatory, Ottawa. It is one of a world network supplying disturbance data for composite K-indices and has a disturbance field closely related to the auroral zone situated about 350 miles in a northeasterly direction.

The activity of the magnetic field at Meanook has been increasing since 1945 and the 1947-1948 period was in a general way similar to that of 1940 to 1941. Special attention was given to a preliminary analysis of magnetic activity during the period 1933 to 1948 as expressed by daily extreme values. A portion of the results appears in the following text.

During the past five years, 1943 to 1948, the average annual changes in the elements were, +8.0 $\gamma$  in H; -6.6' in D; -29.0 $\gamma$  in Z; +17.6  $\gamma$  in X; -18.8 $\gamma$  in Y; -0.8' in I; and -26.6 $\gamma$  in F.

## Instruments

The same instruments continued in use: Elliott magnetometer No. 98 for declination and horizontal intensity and earth inductor MS No. 2 for inclination.

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

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

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

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

The root mean square values of the observed minus adopted photographic baseline values were for D,  $\pm 0.5'$ ; for H,  $\pm 6\gamma$ ; and for Z,  $\pm 20\gamma$ . In the computation of Z from H and I values, an error of 1 $\gamma$  in H produces an error of 4.6 $\gamma$ , and an error of 0.1' in I an error of 8.4 $\gamma$  in the value of Z.

## Magnetic Reductions

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

The monthly and yearly means values of H, D, Z, X, Y and F are based on mean hourly values for H, D and Z. Values of X, Y, I and F are computed from H, D and Z.

K-indices and character figures have been supplied regularly to the Association of Terrestrial Magnetism and

## Magnetic Activity and Ratios

Month	Mean Daily Extremes			$Z/[H^2 + D^2]^{1/2}$		
	H	D	Z	D/H	Angle	Angle
1947						
January	237	117	195	0.4937	26°16'	0.7386 36°27'
February	221	112	157	.5068	26 53	.6331 32 20
March	600	252	461	.4200	22 47	.7081 35 18
April	355	163	262	.4592	24 39	.6700 33 50
May	310	148	231	.4774	25 31	.6715 33 53
June	401	155	265	.3865	21 08	.6163 31 39
July	359	155	231	.4318	23 21	.5908 30 34
August	575	270	389	.4696	25 09	.6126 31 29
September	544	282	397	.5184	27 24	.6476 32 56
October	464	227	319	.4892	26 04	.6170 31 41
November	283	139	244	.4912	26 09	.7746 37 46
December	222	130	195	.5856	30 21	.7588 37 11
Mean	381	179	279	.4774	25 28	.6699 33 45
1948						
January	212	118	203	.5566	29 06	.8354 39 53
February	267	117	225	.4382	23 40	.7705 37 37
March	344	188	271	.5465	28 39	.6913 34 39
April	245	145	214	.5918	30 37	.7509 36 54
May	410	185	276	.4512	24 17	.6133 31 31
June	213	126	170	.5915	30 36	.6883 34 32
July	253	141	225	.5573	29 08	.7759 37 48
August	454	232	313	.5110	27 04	.6137 31 32
September	377	192	305	.5093	26 59	.7210 35 48
October	506	284	410	.5613	29 18	.7069 35 15
November	309	170	279	.5502	28 49	.7904 38 19
December	258	144	211	.5581	29 10	.7153 35 34
Mean	321	170	258	.5352	28 07	.7227 35 47

Electricity of the International Union of Geodesy and Geophysics for inclusion in *Geomagnetic Indices C and K* bulletins.

A preliminary analysis of magnetic extremes data made considerable progress. The mean monthly values of the daily ranges in H, D and Z were used, without smoothing, to compute ratios  $D/H$  and  $Z/[H^2 + D^2]^{1/2}$ . These ratios, being equivalent to tangents of angles, were translated into magnetic azimuth and inclination sweeps of the disturbing force. The data relevant to 1947 – 1948 are included in this text.

Angles were computed from mean annual ranges for the 16-year period 1933 to 1948 resulting in a mean of  $27^\circ 42'$  for magnetic azimuth and  $35^\circ 48'$  for inclination arcs with r.m.s. values of  $\pm 2.0^\circ$  and  $\pm 2.2^\circ$ , respectively. The addition of half the azimuth arc to the declination of each year gave a mean true bearing of the disturbing force of  $39^\circ 32'$  with an r.m.s. value of  $\pm 1.2^\circ$ . This true bearing suggests that the disturbing force is perpendicular to the auroral zone in the case of Meanook.

A list of mean annual values for 1917 to 1948, inclusive, completes the text.

Mean Values for Months and Year, Meanook

Month	D East	H	Z	X	Y East	I North	F
1947	° ' γ	γ	γ	γ	γ	° ' γ	
January	25 06.1	12752	59036	11584	5410	77 48.7	60398
February	05.1	759	079	556	09	48.8	441
March	04.6	710	049	512	5387	51.2	401
April	02.9	746	58998	547	96	48.5	359
May	01.5	771	981	572	5402	47.0	348
June	00.3	778	59055	580	01	47.5	421
July	24 59.9	771	023	575	5397	47.6	389
August	25 01.6	735	022	539	87	49.4	383
September	04.3	733	058	533	96	50.0	415
October	02.4	737	073	540	91	49.9	431
November	01.7	766	054	567	5401	48.2	418
December	24 58.9	775	048	580	5395	47.5	414
Year	25 02.4	12753	59040	11554	5398	77 48.7	60402
1948							
January	24 59.6	12754	59071	11560	5389	77 49.0	60432
February	59.6	757	068	562	90	48.8	430
March	59.9	750	021	556	88	48.6	382
April	58.3	769	58966	575	91	47.2	333
May	57.3	762	59017	571	84	47.9	381
June	54.9	785	026	595	86	46.7	395
July	54.7	784	58995	595	85	46.4	364
August	55.0	755	59012	568	74	48.2	375
September	53.7	763	016	577	73	47.8	380
October	54.1	740	028	556	64	49.2	387
November	55.0	769	059	580	80	48.0	424
December	55.3	782	026	592	86	46.9	394
Year	24 56.4	12764	59025	11574	5382	77 47.9	60390

Mean Annual Values, Meanook

Year	D East	H	Z	X	Y East	I North	F
	° ' γ	γ	γ	γ	γ	° ' γ	
1917	27 46.1	.....	.....	.....	.....	.....	.....
1918	44.3	12938	60393	11450	6022	77 54.5	61763
1919	41.1	944	400	463	14	54.2	770
1920	38.6	923	246	445	5996	53.6	617
1921	33.3	909	190	444	71	53.7	559
1922	28.5	904	133	449	53	53.3	502
1923	23.3	882	031	439	25	53.2	398
1924	17.7	866	59943	434	5899	53.2	308
1925	10.7	852	934	433	70	53.8	296
1926	04.2	832	844	427	40	53.8	205
1927	26 56.2	815	756	425	06	53.7	115
1928	48.5	794	737	419	5770	54.6	092
1929	42.9	781	721	417	46	55.1	062
1930	39.2	755	675	400	22	56.1	022
1931	33.2	758	587	412	03	54.9	60937
1932	27.2	738	466	405	5674	54.6	815
1933	21.9	736	413	412	56	54.0	761
1934	15.3	736	367	422	34	53.5	718
1935	08.2	732	367	430	08	53.7	716
1936	03.4	728	291	435	5591	53.0	642
1937	25 59.6	729	266	442	79	52.7	618
1938	54.8	726	252	446	62	52.7	603
1939	51.6	710	225	438	44	53.2	573
1940	45.0	719	210	456	26	52.6	561
1941	38.7	717	196	464	04	52.6	547
1942	33.6	728	188	483	5492	51.8	541
1943	29.4	724	170	486	76	51.8	523
1944	23.2	740	159	509	62	50.8	515
1945	16.8	740	061	520	41	49.6	420
1946	10.3	739	046	529	18	49.5	404
1947	02.4	753	040	554	5398	48.7	402
1948	24 56.4	764	025	574	82	47.9	390

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

Table 1 Meanook

H = 12,000  $\gamma$  +

January 1947

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	774	772	771	774	774	771	773	766	767	754	722	756	789	788	782	792	792	785	771	767	763	759	763	768	771
2	771	777	775	776	771	770	770	767	754	774	777	779	785	785	776	730	729	785	770	762	758	762	766	777	769
3	783	784	780	771	777	774	840	811	781	774	771	768	755	742	750	772	761	732	719	740	733	753	760	773	767
4 D	794	783	786	785	777	774	770	770	770	770	768	615	755	767	733	599	740	784	751	733	757	759	757	763	752
5 D	781	780	782	786	789	773	891	823	731	680	680	738	749	737	743	771	748	715	715	703	737	768	776	759	756
6	802	808	738	714	769	793	749	654	618	685	680	758	691	694	729	773	771	753	753	747	742	725	733	733	734
7	752	768	763	761	759	761	772	766	730	712	723	726	739	746	752	766	759	754	750	739	741	734	732	746	748
8	768	790	814	790	768	757	759	759	752	731	752	757	770	766	763	759	759	754	761	748	748	746	752	763	762
9 Q	774	770	770	768	766	772	774	763	768	761	759	761	770	774	770	768	763	761	757	757	746	746	754	759	764
10 Q	766	770	770	772	772	770	766	768	766	770	770	774	774	774	774	774	763	748	746	746	752	761	768	774	766
11 Q	774	772	774	774	772	770	779	777	774	774	777	774	772	772	770	770	763	757	748	752	757	770	774	774	770
12 Q	776	776	778	778	776	773	769	767	771	776	773	769	769	767	767	767	762	765	760	751	753	767	773	773	769
13 Q	776	776	773	776	776	773	771	769	769	773	771	769	769	771	765	762	751	736	745	751	755	759	764	771	765
14	766	777	779	781	780	780	777	775	775	775	775	774	775	779	781	774	766	763	758	756	760	770	776	773	773
15	777	777	776	780	780	780	777	774	765	739	779	781	779	781	781	779	771	764	758	754	749	750	762	778	770
16 D	777	789	797	869	1027	1070	999	961	887	770	658	678	657	711	745	763	715	682	696	710	694	750	749	753	788
17	764	776	773	769	758	776	774	775	756	625	425	727	767	762	758	756	755	746	732	732	732	735	757	758	737
18	758	761	760	765	766	766	762	760	719	666	731	750	763	744	747	801	764	753	754	741	724	732	750	752	750
19	748	770	770	774	774	769	763	766	753	746	668	719	771	781	777	774	763	759	750	748	740	737	748	750	755
20	756	766	774	781	781	782	777	763	762	766	771	772	773	773	777	777	774	757	737	729	733	744	760	774	765
21	764	763	772	774	781	778	781	777	774	772	767	772	774	777	781	781	774	766	758	749	742	746	756	762	768
22	767	766	766	767	768	774	775	774	766	768	775	775	775	775	781	787	778	757	751	757	749	742	763	772	768
23	770	775	775	777	782	782	778	775	771	772	773	773	775	777	781	782	777	767	758	751	749	749	757	765	770
24	764	768	772	773	775	772	750	482	568	345	615	743	747	756	753	782	781	757	749	743	740	755	762	767	717
25 D	767	771	769	763	668	564	482	304	479	171	-047	171	263	167	264	408	531	672	669	750	786	814	860	881	539
26 D	833	773	775	871	895	870	837	775	703	475	650	666	568	503	778	756	761	751	732	753	749	757	765	751	739
27	764	768	764	766	779	775	763	756	756	749	742	702	711	720	693	729	770	757	737	736	733	740	744	753	746
28	774	774	780	786	782	772	771	774	762	757	755	763	763	754	750	771	766	760	738	743	740	727	738	753	761
29	756	768	776	774	770	779	779	773	773	747	631	641	670	721	690	761	781	756	743	740	740	748	758	772	744
30	775	772	778	779	779	782	779	783	787	777	768	737	758	779	770	782	775	759	756	754	754	761	754	746	768
31	763	772	788	793	775	781	778	769	769	768	765	770	771	782	771	778	775	765	755	747	743	746	751	755	768
Mean	772	775	775	780	783	780	778	751	744	707	701	724	734	733	744	753	756	752	745	745	745	752	761	766	752

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 2 Meanook

D = 24° E + ...'

January 1947

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	65.7	65.7	65.8	65.5	65.9	66.5	68.7	67.7	67.5	63.0	73.8	73.9	70.8	67.9	65.8	65.0	66.0	69.6	69.8	67.6	65.9	64.8	64.1	63.7	67.1
2	65.2	65.6	65.7	65.9	66.1	66.0	66.1	66.8	67.0	67.1	65.8	65.7	65.8	66.5	65.9	66.8	55.0	55.3	64.0	66.9	65.8	64.2	64.0	64.5	64.9
3	65.8	65.8	65.8	66.5	66.3	67.5	77.3	68.8	64.9	65.8	65.7	68.1	67.6	65.4	66.6	70.6	68.8	61.0	56.2	59.7	57.5	60.9	57.9	61.4	65.1
4 D	61.8	62.9	65.8	65.7	68.3	68.4	67.5	66.8	66.7	66.8	66.5	79.8	64.4	70.9	71.8	62.6	77.3	71.8	64.5	64.3	64.6	63.5	63.5	63.5	67.1
5 D	65.7	64.6	65.7	66.5	66.3	74.2	70.6	63.9	60.5	60.6	72.6	73.3	69.2	66.8	68.7	71.6	72.1	58.6	57.1	57.0	58.6	59.1	59.8	61.4	65.2
6	62.0	71.2	66.3	64.8	74.2	59.5	68.2	60.7	62.9	73.3	75.1	69.4	70.5	60.0	55.6	60.2	60.2	60.2	60.0	64.1	65.3	63.6	61.8	62.9	64.7
7	66.8	66.1	67.0	69.3	68.6	68.6	67.9	67.7	65.6	68.6	68.8	67.0	64.0	67.4	70.0	69.3	68.6	69.1	67.0	67.4	67.7	65.6	62.8	62.2	67.2
8	64.0	63.1	61.2	63.8	66.3	67.4	67.0	67.2	65.6	71.1	70.4	68.4	66.1	66.3	66.8	69.1	71.4	70.2	77.0	67.7	66.5	66.3	65.8	64.5	67.2
9 Q	65.8	66.0	66.4	66.7	66.0	65.5	64.1	65.3	65.7	65.5	64.6	65.7	65.3	66.0	66.2	67.8	68.0	69.7	68.5	66.6	63.9	62.5	63.0	63.7	65.8
10 Q	64.0	64.0	63.3	65.6	66.1	66.1	64.5	63.8	64.7	65.4	65.6	64.7	65.6	66.3	67.2	68.4	70.0	70.2	67.9	66.1	63.8	63.1	63.3	63.8	65.6
11 Q	64.7	64.7	65.6	66.1	65.6	65.4	64.3	64.5	64.3	64.5	64.5	65.0	65.4	66.1	66.8	69.2	71.2	71.4	69.6	65.5	61.0	61.5	63.6	64.0	65.6
12 Q	64.3	64.7	65.4	65.6	66.1	65.6	65.4	65.4	65.4	65.9	65.9	65.4	65.2	66.3	67.0	69.1	70.7	70.9	69.1	65.6	62.0	60.4	62.2	63.6	65.7
13 Q	63.9	64.4	64.6	65.5	66.0	65.1	64.9	63.7	65.3	66.0	66.2	66.5	67.1	67.6	68.3	69.0	70.1	70.4	67.4	65.9	62.2	61.1	61.8	62.4	65.6
14	64.1	63.7	65.1	66.0	66.7	65.9	65.1	65.2	65.1	64.8	65.3	66.0	67.2	67.8	69.9	69.9	70.0	68.8	68.2	65.2	63.4	63.8	63.5	61.9	65.9
15	61.7	64.1	65.3	65.4	65.4	65.8	65.2	64.9	65.2	64.5	71.7	68.3	67.8	67.8	68.3	69.7	71.2	70.7	69.7	68.4	66.0	61.9	60.8	62.3	66.3
16 D	62.2	61.1	64.6	60.5	73.6	65.4	60.9	60.2	57.5	61.0	70.1	71.8	73.6	73.0	74.3	72.8	78.6	63.8	69.3	70.4	68.0	57.8	59.4	58.8	66.2
17	62.2	64.9	65.3	65.4	66.3	66.0	65.0	64.4	65.6	63.3	64.5	67.7	67.6	68.9	69.9	71.5	73.1	73.8	72.8	70.1	66.6	65.2	64.0	62.7	67.0
18	63.3	63.3	65.7	65.9	66.2	66.1	65.2	64.9	62.0	67.9	67.7	66.8	68.2	67.2	71.0	69.2	72.7	71.4	70.1	69.5	65.8	62.2	61.9	61.5	66.5
19	61.5	62.3	63.0	66.7	66.9	66.9	67.1	67.7	65.6	68.1	67.6	70.5	69.5	68.9	68.8	70.0	72.4	71.5	72.1	70.7	68.2	65.9	63.5	61.1	67.4
20	61.1	61.5	63.2	64.4	65.2	64.8	64.5	64.5	65.2	65.6	65.7	65.7	65.9	66.8	66.9	69.3	71.1	72.5	69.5	65.2	61.4	61.2	60.7	61.0	65.1
21	62.8	62.9	62.8	63.2	63.9	63.4	62.2	63.3	64.4	65.2	65.2	65.5	65.8	65.9	66.0	68.0	71.1	71.9	71.5	68.7	65.8	64.4	63.2	63.0	65.4
22	64.5	64.5	64.4	64.9	65.2	65.0	64.3	64.7	63.9	67.0	66.6	66.9	66.9	66.9	68.7	69.5	69.6	67.9	63.4	64.2	63.5	62.6	63.1	60.9	65.4
23	61.5	62.7	63.5	65.1	66.6	62.8	64.0	64.1	64.6	65.4	65.3	65.7	65.9	65.9	66.3	68.5	69.7	69.3	65.4	61.8	60.1	61.1	63.9	64.0	64.7
24	64.5	64.8	65.2	65.1	65.1	65.0	65.9	93.0	72.0	79.1	75.1	66.1	65.0	63.3	61.6	68.5	68.2	66.1	63.7	59.9	59.7	59.9	62.8	64.3	66.8
25 D	65.9	65.2	65.1	65.7	73.1	79.4	66.7	61.3	72.2	58.9	63.5	41.9	52.7	68.1	70.4	66.9	63.0	65.9	69.1	64.3	65.2	64.2	64.0	64.0	64.9
26 D	62.3	62.1	65.7	63.1	62.0	61.1	55.5	65.0	67.6	72.2	77.2	84.6	93.0	76.1	80.7	72.1	72.0	63.2	62.6	60.6	61.4	61.4	63.3	65.8	67.9
27	64.3	64.3	65.4	67.0	70.1	69.4	65.9	64.5	64.5	65.0	65.9	63.3	64.0	66.9	63.4	64.0	67.9	69.0	65.1	64.7	62.8	61.5	61.7	60.9	65.1
28	59.7	60.6	69.1	65.3	64.8	64.7	66.5	67.0	64.5	65.2	64.9	65.4	65.8	67.3	67.0	72.1	73.8	74.0	71.4	69.9	66.7	63.9	62.2	62.3	66.4
29	63.0	63.4	60.4	66.0	69.1	64.5	65.5	61.7	67.7	67.8	73.7	85.6	84.2	77.3	67.4	75.2	70.7	69.9	70.9	68.4	63.6	62.4	61.4	61.2	68.4
30	61.2	61.9	62.9	63.6	64.5	64.6	63.4	65.2	65.3	68.0	68.7	75.5	74.2	70.6	68.5	70.6	70.9	71.3	70.9	69.1	67.8	63.0	61.7	61.4	66.9
31	60.2	61.8	63.4	72.6	65.3	65.9	66.2	66.8	66.4	66.3	66.1	65.9	65.9	66.0	66.7	68.6	69.8	69.3	70.7	69.4	66.3	62.9	61.8	61.8	66.1
Mean	63.4	64.0	64.8	65.6	66.8	66.2	65.7	65.8	65.3	66.4	68.1	68.3	68.1	67.7	67.8	68.9	69.8	68.3	67.6	66.0	64.1	62.6	62.5	62.6	66.1

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

Table 3 Meanook

$z = 58,500 \gamma +$

January 1947

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	514	512	513	515	512	511	509	504	498	436	335	392	460	474	474	488	502	502	506	509	511	513	513	513	488	
2	516	516	515	517	517	517	515	511	458	483	507	508	510	504	499	467	489	502	508	504	510	521	521	516	505	
3	516	514	515	517	526	542	560	550	532	524	516	505	477	424	442	462	496	497	492	502	499	527	556	554	510	
4 D	553	553	551	547	534	526	521	519	519	518	513	366	429	474	483	342	415	506	528	522	539	556	542	533	504	
5 D	548	546	541	543	536	557	647	613	536	438	407	463	495	502	487	491	490	494	497	528	562	554	559	569	525	
6	586	593	616	619	627	580	537	495	451	461	392	274	237	412	492	536	526	511	512	532	535	546	548	543	507	
7	536	540	544	552	544	546	536	531	498	500	480	449	478	522	522	522	521	521	523	533	531	526	527	530	521	
8	534	537	553	560	557	545	536	529	472	480	512	518	523	523	525	526	523	519	526	532	531	527	524	523	526	
9 Q	526	523	523	522	521	524	520	528	524	524	521	519	518	524	525	526	525	524	524	524	523	525	526	525	524	
10 Q	524	523	523	520	519	518	518	521	518	519	519	518	518	519	523	525	524	525	525	526	526	527	525	524	520	522
11 Q	520	520	520	520	518	515	516	516	516	516	516	515	515	515	516	521	523	524	524	525	519	519	518	514	518	
12 Q	517	517	518	517	517	516	518	518	518	518	517	516	516	517	520	522	525	526	527	522	515	516	515	515	518	
13 Q	519	518	518	519	519	519	519	524	525	524	522	521	519	518	517	522	523	524	525	524	523	524	521	517	521	
14	524	527	527	527	528	527	529	531	524	516	522	524	524	518	513	510	515	522	523	518	517	520	523	526	522	
15	531	528	530	533	539	542	538	531	527	453	519	532	532	531	531	529	530	529	525	526	526	531	546	554	529	
16 D	575	590	613	683	705	705	614	577	626	599	487	482	446	465	482	502	508	510	527	573	600	621	563	562	567	
17	575	592	574	560	560	565	568	576	552	522	425	517	540	544	546	547	548	547	546	544	544	547	550	554	548	
18	553	560	557	553	549	547	544	535	499	431	490	509	532	519	522	560	535	537	566	564	557	554	557	550	537	
19	555	573	580	565	552	550	544	534	520	515	436	451	515	541	546	545	545	546	547	546	546	548	554	553	538	
20	553	555	556	553	549	550	549	546	534	534	536	537	539	539	540	539	539	538	540	535	538	547	550	552	544	
21	550	555	564	565	564	562	558	547	546	548	544	544	542	539	539	540	541	542	542	540	541	541	540	540	547	
22	541	541	542	541	542	542	541	538	538	549	548	541	539	528	528	522	525	532	541	541	544	544	552	557	540	
23	552	553	555	554	557	554	551	547	545	543	541	538	539	538	537	540	538	540	543	546	546	545	544	542	545	
24	543	542	541	540	539	539	526	342	467	383	448	520	500	519	527	532	544	538	547	553	543	547	554	558	516	
25 D	560	555	557	572	501	450	601	577	540	696	787	558	705	759	515	491	472	517	587	612	609	603	601	581	584	
26 D	584	592	594	609	619	571	551	557	579	366	523	521	531	464	553	546	576	568	577	606	600	601	583	580	560	
27	586	595	593	593	601	590	582	573	564	563	549	520	525	516	500	494	520	533	547	559	572	585	584	579	559	
28	591	606	622	584	571	575	579	580	576	570	566	567	566	556	560	577	575	576	578	579	581	587	593	579	579	
29	568	576	579	584	619	604	600	591	576	562	425	390	441	479	481	507	550	568	573	582	580	577	578	577	549	
30	579	579	581	584	585	585	592	595	596	575	563	496	520	559	582	570	574	572	571	578	578	578	580	587	573	
31	596	590	607	614	612	601	596	586	577	572	569	570	572	574	576	576	576	575	572	576	576	580	580	583	584	
Mean	549	552	556	557	556	551	552	539	531	514	508	496	510	520	519	519	526	531	538	544	546	550	549	548	536	



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4 Meanook

January 1947

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Range	Maximum 24° East +			Minimum 24° East +			Range	Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range
	h.	m.	$\gamma$	h.	m.	$\gamma$		h.	m.	'	h.	m.	'		h.	m.	$\gamma$	h.	m.	$\gamma$	
1	15	13	800	10	25	711	89	10	40	81.4	09	30	55.1	26.3	03	27	522	10	43	308	214
2	17	26	838	16	02	686	152	18	54	74.6	16	00	43.8	30.8	18	42	527	08	52	386	141
3	06	33	906	18	13	637	269	06	30	84.4	18	04	49.4	35.0	06	37	588	13	35	416	172
4 D	12	01	842	11	41	408	434	11	37	115.0	15	34	47.0	68.0	21	44	571	11	49	172	399
5 D	06	40	969	09	55	522	447	05	48	89.0	09	53	42.8	46.2	06	41	692	09	55	291	401
6	01	12	861	07	52	525	336	04	53	84.9	05	11	30.3	54.6	04	40	643	12	12	164	479
7	15	04	781	09	55	701	80	03	22	73.0	23	53	60.6	12.4	03	39	560	11	47	436	124
8	02	25	825	08	57	681	144	09	27	77.6	08	50	54.8	22.8	03	21	572	08	50	394	178
9 Q	00	35	781	23	50	734	47	16	28	71.0	06	34	61.1	09.9	07	10	535	06	22	508	27
10 Q	23	47	786	18	45	741	45	17	08	71.4	20	47	61.7	09.7	19	15	534	05	45	514	20
11 Q	06	24	786	18	16	737	49	16	45	72.3	20	56	60.4	11.9	17	31	529	06	34	513	16
12 Q	03	46	782	18	44	742	40	17	30	71.6	21	26	60.8	10.8	18	22	531	23	05	513	18
13 Q	05	05	780	19	21	731	49	17	20	71.3	21	12	59.8	11.5	18	00	530	07	07	516	14
14	15	09	791	20	00	754	37	16	48	72.1	23	25	61.4	10.7	07	07	543	15	52	502	41
15	10	34	790	09	41	683	107	10	04	73.0	09	29	54.9	18.1	23	57	565	09	37	400	165
16 D	05	04	1190	12	20	541	649	03	52	94.8	08	48	50.8	44.0	05	06	782	12	25	391	391
17	05	45	795	09	58	271	524	10	17	86.3	09	56	41.2	45.1	01	27	604	10	21	301	303
18	15	44	814	08	57	588	226	16	17	76.7	09	50	53.7	23.0	15	29	581	09	02	365	216
19	12	53	795	10	41	617	178	16	15	73.0	02	02	59.2	13.8	02	13	593	10	40	373	220
20	15	55	791	19	34	723	68	17	17	76.6	22	06	55.7	20.9	01	12	567	09	39	528	39
21	04	30	788	20	42	741	47	17	45	73.9	06	07	60.6	13.3	03	24	572	23	47	537	35
22	15	04	792	21	14	728	64	16	56	71.6	08	23	58.2	13.4	23	21	568	15	37	517	51
23	04	44	791	21	17	737	54	04	13	72.5	20	50	58.4	14.1	04	08	561	16	50	532	29
24	15	32	821	06	48	109	712	07	38	124.9	09	30	55.6	69.3	08	04	591	09	23	272	319
25 D	22	55	962	10	21	-332	1294	11	48	154.3	08	53	17.5	136.8	10	08	1011	14	46	213	798
26 D	04	05	927	09	30	338	589	09	36	112.0	09	22	35.5	76.5	04	31	675	09	18	189	486
27	01	22	802	14	18	653	149	17	13	76.8	18	16	52.2	24.6	04	20	619	12	21	472	147
28	02	17	794	21	59	713	81	17	10	78.5	22	17	56.4	22.1	02	31	652	13	43	548	104
29	15	47	805	16	12	569	236	12	00	96.0	07	36	53.0	43.0	04	38	633	11	52	370	263
30	08	35	795	11	40	712	83	11	44	82.5	22	52	58.5	24.0	08	37	620	11	47	459	161
31	03	18	817	20	33	737	80	03	21	79.4	00	23	58.8	20.6	03	08	635	10	07	560	75
Mean			832			595	237			84.3			52.6	31.7			603			408	195
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 1947

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	757	761	766	777	798	823	813	732	704	758	781	773	773	773	776	774	765	758	755	753	756	760	764	768	
2	766	770	771	777	779	776	776	777	777	776	777	776	778	776	776	772	771	770	763	757	765	763	764	767	772
3	768	772	777	777	783	779	780	780	780	769	764	772	777	777	777	773	766	760	780	773	763	756	763	771	772
4	777	762	757	782	816	777	780	701	639	663	698	693	658	715	782	780	776	766	764	763	768	762	760	759	746
5	762	767	768	774	772	771	770	770	763	765	763	773	773	771	778	780	774	769	765	764	763	763	760	760	768
6	762	770	772	773	772	766	787	787	608	762	775	771	754	773	782	787	782	765	751	751	753	756	762	764	762
7	771	773	772	776	777	775	775	776	782	773	761	753	747	747	722	781	781	760	737	750	761	754	755	760	763
8 D	758	764	770	779	783	782	785	773	692	683	574	363	534	696	610	676	737	701	697	698	719	748	821	808	706
9 D	776	789	812	842	772	801	783	708	555	565	643	779	799	782	771	758	735	736	740	737	715	715	753	756	743
10	787	789	792	787	782	779	783	773	763	643	514	701	761	742	649	747	777	756	744	742	742	745	751	756	742
11	765	766	770	770	770	770	775	775	773	773	772	772	773	779	779	781	779	766	750	742	743	740	745	758	766
12	767	772	776	776	776	776	775	774	776	780	782	781	773	762	771	783	779	762	747	739	741	751	752	769	
13	759	769	773	773	769	769	773	771	774	775	776	776	767	763	776	785	782	773	759	755	750	745	749	757	767
14 Q	766	772	773	773	773	773	769	765	770	778	781	783	784	786	787	787	787	780	768	755	745	743	748	752	771
15 Q	759	766	773	773	773	771	775	776	776	776	780	781	784	784	785	787	782	777	768	755	747	744	748	752	770
16 D	760	763	767	780			778	772	633								780	735	713	736	726	777	832		
17 D	1027	943	1037	869	875	872	799	723	555	493	598	563	550	608	675	697	724	692	717	735	740	737	737	748	738
18	757	764	800	809	800	806	787	809	694	700	745	692	653	742	741	724	732	738	740	737	749	748	753	750	749
19 D	755	760	783	785	783	794	836	799	790	768	759	716	710	556	530	642	751	748	706	743	761	814	827	809	747
20	804	783	776	768	783	777	757	755	756	757	759	769	759	761	762	766	755	745	736	727	727	732	736	749	758
21 Q	755	750	762	765	765	769	771	770	770	771	773	762	755	775	776	774	773	761	743	732	728	732	741	753	759
22 Q	758	762	768	771	773	774	775	775	776	777	779	780	780	781	781	781	780	771	757	751	744	743	749	760	769
23 Q	766	767	768	769	771	769	773	776	778	781	780	782	786	785	783	780	780	775	751	749	746	747	752	763	770
24	772	776	780	783	786	786	780	780	780	779	780	770	716	777	791	791	788	772	755	741	741	744	755	755	770
25	770	774	772	773	775	773	774	772	752	673	601	593	627	726	786	808	784	759	747	741	743	747	740	762	740
26	772	816	855	839	802	769	763	744	667	747	761	766	765	762	770	775	782	767	751	735	726	734	749	759	766
27	755	765	775	778	779	774	773	772	770	773	773	774	763	769	775	775	765	755	741	734	740	740	741	752	763
28	759	765	773	773	778	786	786	780	777	776	774	776	778	770	768	770	780	767	757	749	740	741	747	751	768
29																									
30																									
31																									
Mean	776	777	788	785	784	783	780	766	733	735	734	733	736	750	750	764	770	758	748	745	745	748	756	761	759

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 6 Meanook

D = 24° E + ... ' 1

February 1947

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	60.2	57.8	62.6	62.2	65.0	64.5	69.0	55.9	57.8	66.0	64.4	65.0	65.4	65.7	66.2	67.3	68.7	68.2	68.0	66.3	65.2	64.5	63.5	63.6	64.3
2	64.3	64.1	64.3	64.5	64.5	64.1	63.9	64.2	64.5	65.0	65.9	66.9	67.3	67.2	67.7	69.4	70.9	70.3	67.5	65.3	63.1	62.0	61.7	62.9	65.5
3	62.0	62.1	63.6	63.8	63.8	64.0	62.5	63.3	68.8	73.3	72.4	70.9	67.7	66.3	66.8	70.4	71.1	61.4	60.4	64.3	63.5	63.9	63.3	63.8	65.6
4	61.0	60.6	62.4	63.3	67.0	64.8	64.6	64.8	77.4	83.1	79.2	82.9	80.5	67.9	69.3	70.9	71.1	68.8	66.8	66.3	65.4	65.6	65.2	65.1	68.9
5	64.8	64.4	64.2	64.3	64.2	64.4	64.6	64.6	65.2	65.9	65.8	67.2	66.5	65.0	66.3	67.9	67.9	65.3	64.9	63.2	64.4	64.3	63.5	62.8	65.1
6	64.1	63.5	63.2	63.3	63.5	69.2	69.4	67.5	60.8	63.8	66.6	66.1	65.9	66.3	67.5	68.3	70.1	67.8	64.2	60.8	61.7	62.3	62.7	63.0	65.1
7	63.3	63.7	63.7	64.1	63.8	63.7	63.9	65.2	68.1	66.3	67.8	64.5	65.5	70.7	65.3	73.1	72.3	68.9	59.2	59.1	59.4	61.4	62.9	63.5	65.0
8 D	63.5	63.5	63.6	62.8	62.1	62.5	63.0	64.6	76.0	80.3	80.6	81.9	98.0	81.9	81.5	68.5	65.6	61.8	59.5	57.8	56.6	60.2	59.4	55.9	68.0
9 D	60.6	58.3	64.4	62.5	62.3	64.8	64.6	62.6	66.1	69.6	82.6	73.4	69.9	68.3	68.6	70.0	70.5	69.2	69.0	68.9	67.5	56.8	57.4	56.7	66.0
10	57.1	54.1	61.0	64.1	64.1	64.5	62.9	64.4	66.5	67.6	60.3	79.2	71.2	66.9	61.0	65.2	69.2	68.5	67.5	65.3	62.9	62.3	62.1	62.2	64.6
11	62.3	62.7	63.5	64.4	64.9	65.3	64.7	64.5	64.4	64.5	64.9	65.4	65.8	66.4	67.6	69.7	71.9	71.9	70.2	68.7	65.3	62.1	61.5	61.8	65.5
12	63.1	63.4	63.4	63.5	63.5	63.5	64.0	63.7	64.2	65.2	65.1	65.0	65.3	64.9	63.7	65.2	68.1	70.7	69.5	67.0	64.7	61.5	61.1	61.6	64.6
13	61.5	62.2	63.2	63.5	63.6	64.0	64.3	65.3	66.0	65.1	64.6	64.5	63.6	64.3	63.9	68.8	71.6	69.1	68.7	66.8	66.7	64.9	63.8	62.5	65.1
14 Q	62.3	62.4	62.6	62.7	63.1	63.2	66.2	64.1	66.9	65.9	65.0	64.8	65.2	65.7	66.8	68.2	70.7	69.1	67.8	68.0	66.8	64.4	63.3	62.8	65.3
15 Q	62.4	62.3	62.8	62.9	62.9	63.4	63.0	63.3	64.0	63.6	65.8	65.3	65.2	65.3	65.6	64.8	65.5	67.8	68.0	66.0	65.4	64.1	63.3	63.3	64.4
16 D	62.9	62.4	62.6	61.5				62.6	73.3									65.9	59.7	59.6	59.0	56.9	58.3	61.8	
17 D	58.2	54.7	53.2	49.4	60.5	63.9	59.6	53.2	54.8	74.8	74.9	78.5	77.2	84.3	77.2	73.5	76.6	63.5	65.4	67.4	67.5	66.1	64.5	62.6	65.9
18	61.3	60.7	55.7	55.4	61.4	62.1	56.6	58.5	64.9	77.0	73.6	71.9	73.1	70.9	71.6	70.9	72.0	68.9	65.0	62.0	58.8	59.3	59.9	60.8	64.7
19 D	60.9	60.5	61.0	61.9	60.7	56.9	56.2	60.9	64.7	64.8	66.6	74.8	76.4	89.9	73.7	77.5	74.6	65.4	56.2	58.3	61.2	60.7	57.6	59.1	65.0
20	60.3	59.1	64.7	71.9	70.5	65.4	64.2	63.8	64.2	64.4	63.7	64.3	63.6	64.9	65.6	68.5	70.7	70.5	68.3	66.5	64.7	62.5	61.9	61.9	65.3
21 Q	62.0	62.4	62.6	62.9	63.0	63.1	62.8	63.0	63.6	63.7	63.8	61.9	61.1	65.2	66.3	67.8	68.7	69.7	68.4	67.3	65.1	63.0	62.6	62.3	64.3
22 Q	61.8	61.8	62.0	62.4	62.4	62.2	63.2	62.3	63.1	63.6	63.8	63.9	64.6	65.2	66.6	68.4	69.7	70.6	68.5	66.5	62.8	61.5	60.4	61.4	64.1
23 Q	61.6	62.1	61.9	62.6	62.8	63.2	62.8	62.7	62.4	62.8	63.4	63.9	64.6	65.0	66.0	67.3	69.3	70.3	68.1	65.1	62.3	60.6	59.8	60.5	63.8
24	61.3	61.3	60.7	61.6	61.5	61.2	61.8	62.4	64.3	64.5	64.3	64.7	61.3	67.7	69.4	69.5	69.9	71.2	63.9	60.7	60.5	60.5	60.7	60.5	63.6
25	61.1	61.2	62.0	61.5	62.0	64.4	65.9	62.3	67.5	72.0	79.9	78.1	79.2	79.0	72.0	69.6	70.1	69.4	65.2	62.0	60.2	58.7	59.0	57.8	66.7
26	56.9	55.0	57.8	63.2	66.9	63.0	64.3	65.3	61.7	65.1	64.9	65.3	64.6	63.9	66.5	69.8	71.1	71.5	71.6	69.0	64.8	62.5	59.2	58.5	64.3
27	59.4	57.7	58.0	60.7	66.7	62.1	63.5	63.3	63.7	63.5	63.1	63.9	62.6	64.6	66.2	68.1	68.3	68.1	66.4	64.8	63.4	61.0	59.6	59.3	63.2
28	58.4	58.7	58.2	60.3	60.4	61.2	70.1	62.5	62.5	63.7	62.9	64.9	65.1	64.3	67.5	67.0	67.2	67.9	66.5	65.0	60.8	59.0	58.4	58.3	63.0
29																									
30																									
31																									
Mean	61.3	60.8	61.7	62.4	63.6	63.5	63.8	62.9	65.0	67.6	68.0	68.9	68.8	68.8	68.0	69.1	70.2	68.4	66.1	64.8	63.4	62.1	61.4	61.3	65.1

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

Table 7 Meanook

$z = 58,500 \gamma +$

February 1947

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	603	613	615	626	659	646	624	547	492	579	597	588	586	584	583	584	584	585	585	589	586	584	581	581	592	
2	582	580	577	580	577	576	576	577	577	578	579	576	574	576	576	581	582	577	579	581	581	582	578	578	578	
3	584	589	588	589	588	587	592	592	559	588	568	572	579	583	586	586	575	567	567	578	579	579	578	578	580	
4	590	599	619	624	589	558	610	535	432	438	468	493	513	551	582	591	582	582	588	589	591	586	585	584	562	
5	590	587	584	586	587	584	582	583	578	579	567	572	578	571	578	577	572	577	580	578	579	580	579	582	580	
6	583	583	581	583	589	601	607	599	484	506	565	570	540	538	564	568	573	579	578	585	586	589	588	585	572	
7	586	583	582	584	586	585	585	583	563	560	553	535	494	497	499	545	568	568	570	567	582	584	587	586	564	
8 D	586	593	591	588	593	602	604	596	482	506	496	509	354	423	412	438	493	555	606	641	650	655	682	664	555	
9 D	646	639	647	654	549	627	621	590	534	443	406	566	587	590	593	592	579	588	590	595	603	628	627	626	588	
10	640	638	630	604	592	599	600	597	582	544	467	496	562	537	486	505	556	576	583	593	597	600	601	601	574	
11	597	596	594	593	594	596	591	589	589	588	588	587	586	586	585	587	586	583	582	586	586	590	591	589	589	
12	590	582	584	584	587	587	588	590	587	577	581	581	584	577	568	574	577	581	583	590	589	590	593	591	584	
13	588	587	583	586	588	591	590	584	582	579	579	579	565	538	560	576	580	579	577	579	577	581	588	587	579	
14 Q	588	582	580	581	581	583	589	574	578	580	582	582	582	582	580	581	583	584	583	580	582	589	588	585	582	
15 Q	585	582	582	581	582	585	583	580	584	578	570	571	571	575	577	578	577	578	585	589	588	584	582	581	580	
16 D	580	580	581	582				580	519									591	605	603	610	620	639	659		
17 D	594	679	555	396	487	520	578	609	579	566	572	628	576	523	493	486	553	572	601	620	620	618	613	614	569	
18	619	638	651	682	676	633	611	635	606	563	588	596	549	583	594	572	565	564	570	581	593	603	614	614	604	
19 D	614	620	621	616	610	630	643	615	621	608	600	548	489	408	343	386	537	554	573	603	630	670	673	661	578	
20	651	624	637	647	667	647	607	593	591	589	578	586	578	578	583	594	596	597	596	599	600	600	600	597	606	
21 Q	595	591	588	588	587	586	588	586	586	587	587	572	560	572	584	585	586	579	579	582	590	595	593	592	585	
22 Q	585	583	583	579	577	577	578	578	579	580	578	578	579	582	582	583	585	582	578	578	584	583	584	583	581	
23 Q	582	581	582	579	579	578	579	581	577	576	576	576	577	577	576	578	582	581	575	576	583	585	588	587	580	
24	586	584	582	581	582	581	580	576	574	566	559	549	504	528	555	570	574	573	576	578	580	581	584	585	570	
25	580	579	576	574	578	582	590	580	555	463	487	439	438	531	555	595	589	583	583	588	589	599	593	595	559	
26	623	667	677	647	626	593	588	555	436	521	558	566	571	562	568	564	566	569	574	580	584	588	598	594	582	
27	587	590	597	604	622	606	587	576	572	568	566	562	547	540	565	572	577	578	577	583	587	587	584	583	580	
28	573	572	578	581	584	591	571	563	558	556	554	556	558	555	551	551	557	562	562	563	577	582	579	584	567	
29																										
30																										
31																										
Mean	597	602	599	593	593	594	594	584	557	554	554	560	547	550	551	559	572	576	581	587	592	596	597	596	579	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8 Meanook

February 1947

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,500 $\gamma$ +		58,500 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1	08 17	877	08 29	602	275	08 23	77.4	08 31	39.9	37.5	04 36	684	08 30	284	400
2	12 24	782	19 03	753	<u>29</u>	17 30	74.0	22 18	60.7	13.3	00 55	585	11 32	566	19
3	08 02	816	08 50	741	75	09 11	76.9	17 53	56.2	20.7	09 34	608	08 23	533	75
4	04 24	902	08 08	559	343	11 03	90.9	06 10	50.6	40.3	04 10	643	09 13	376	267
5	15 16	785	10 04	747	38	11 02	69.2	10 00	60.3	<u>08.9</u>	01 40	593	10 07	556	37
6	06 45	832	08 37	478	354	05 47	73.4	08 28	52.6	20.8	06 47	635	08 49	368	267
7	15 28	799	14 20	691	108	13 16	79.0	14 09	52.3	26.7	00 42	591	12 40	456	135
8 D	23 15	867	11 11	299	568	12 03	<u>120.1</u>	10 57	35.5	<u>84.6</u>	22 38	706	12 24	274	432
9 D	03 55	955	09 15	507	448	10 00	88.6	04 03	<u>26.8</u>	61.8	03 04	673	10 32	387	286
10	01 59	814	10 09	365	449	11 04	92.7	09 58	31.8	60.9	00 35	644	10 27	409	235
11	14 49	787	21 46	726	61	16 43	74.1	21 42	60.3	13.8	00 10	600	18 14	576	24
12	16 47	788	20 52	735	53	17 23	71.5	22 34	59.8	11.7	22 42	598	14 56	555	43
13	15 43	790	12 45	738	52	16 34	73.3	13 00	60.2	13.1	05 15	597	13 17	527	70
14 Q	15 48	794	22 17	740	54	16 42	72.0	07 29	50.6	21.4	21 53	593	07 58	555	38
15 Q	15 45	790	21 15	739	51	16 58	73.6	01 00	61.7	11.9	19 35	593	10 20	561	32
16 D															
17 D	00 20	<u>1165</u>	09 04	<u>259</u>	<u>906</u>	09 12	96.4	08 52	30.4	66.0	01 53	699	08 51	<u>210</u>	<u>489</u>
18	06 24	920	12 52	548	372	09 18	87.1	06 05	32.2	54.9	06 15	<u>739</u>	08 16	472	267
19 D	07 00	917	14 22	438	479	15 17	96.7	06 47	44.0	52.7	22 18	697	14 22	593	104
20	00 03	868	20 31	723	145	03 18	80.4	00 02	56.0	24.4	00 07	708	12 56	567	141
21 Q	13 38	783	21 17	726	57	17 47	70.5	12 29	58.6	11.9	21 36	598	12 32	551	47
22 Q	12 53	784	21 24	729	55	17 21	72.3	22 37	58.9	13.4	14 00	587	18 48	573	<u>14</u>
23 Q	13 45	788	20 30	744	44	17 07	70.9	22 48	59.0	11.9	23 00	592	19 12	572	20
24	13 57	804	12 40	688	116	17 38	76.9	12 17	56.1	20.8	01 43	592	12 42	468	124
25	15 27	816	11 47	477	339	12 42	93.1	23 17	53.3	39.8	15 22	609	12 45	383	226
26	03 05	967	08 06	612	355	04 22	79.0	08 48	48.5	30.5	02 48	695	08 43	413	282
27	04 12	790	19 35	730	60	04 17	77.1	05 03	54.6	22.5	04 12	636	13 13	525	111
28	06 28	805	20 30	731	74	06 12	81.5	23 13	56.8	24.7	05 52	605	06 41	534	71
29															
30															
31															
Mean		844		623	221		81.1		50.7	30.4		633		476	157
No. days		27		27	27		27		27	27		27		27	27

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

Table 9 Meanook

H = 12,000  $\gamma$  +

March 1947

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	757	768	772	773	777	783	786	780	773	727	742	773	755	752	772	777	767	757	748	745	749	752	752	749	762
2 D	770	780	777	773	785	797	833	917	826	644	659	364	219	126	535	801	759	664	508	628	730	808	893	917	688
3 D	862	870	952	893	839	791	695	671	227	-131	-03	-139	005	489	414	441	601	552	593	766	967	1022	919	1022	597
4	963	934	804	796	574	403	486	644	001	313	706	738	749	669	653	701	730	706	704	734	741	720	740	745	665
5	753	737	749	752	752	748	752	715	752	739	743	761	759	747	745	739	734	721	713	713	717	722	733	749	739
6 Q	741	749	755	759	761	761	763	765	766	773	759	759	768	765	759	751	745	726	707	702	709	720	726	741	747
7	752	759	759	765	766	773	773	699	574	643	754	759	447	699	788	776	770	753	726	720	724	737	743	753	725
8 D	768	771	775	773	768	762	682	586	220	091	169	149	058	153	233	-13	331	620	626	682	728	850	871	975	526
9	897	870	956	788	861	804	738	465	317	371	301	173	399	603	727	752	741	737	734	726	725	718	725	753	662
10 Q	753	759	755	764	759	760	757	757	759	763	760	739	726	702	766	776	759	749	735	726	728	734	746	742	749
11 Q	751	756	757	759	762	765	765	765	730	749	771	756	765	775	771	769	765	745	735	737	726	732	736	745	754
12	759	756	757	769	776	783	780	769	751	749	757	667	648	788	794	782	784	769	756	745	736	736	741	756	755
13	765	770	773	769	771	769	773	769	769	771	787	791	788	780	782	784	774	751	741	732	726	741	744	754	766
14	766	767	777	791	775	758	770	675	495	563	532	559	497	431	626	619	569	732	750	745	739	750	768	766	676
15 D	809	804	797	793	813	825	723	540	166	442	287	337	532	034	-188	100	392	742	764	740	715	740	723	754	558
16	741	752	752	750	754	760	762	750	676	750	753	747	742	717	631	559	622	643	672	715	757	805	898	957	736
17	976	924	889	856	887	849	680	704	494	579	627	537	638	754	732	739	746	743	743	740	745	743	763	747	743
18	753	752	768	761	770	764	757	760	762	751	716	669	736	708	715	753	737	751	735	733	730	736	741	754	742
19	775	753	775	778	765	757	761	747	764	770	770	771	764	761	761	750	725	725	726	728	729	729	751	751	754
20	759	782	793	814	798	806	775	751	710	776	769	761	751	758	759	760	759	752	736	712	715	750	749	751	760
21 Q	753	756	767	763	760	771	775	775	763	748	747	761	775	781	777	764	738	751	746	743	743	751	724	733	757
22	745	767	794	846	898	852	861	783	578	565	564	649	557	678	746	793	786	758	742	744	746	754	754	769	739
23	768	764	765	765	772	817	776	792	612	508	725	699	596	771	781	367	334	647	751	734	725	734	752	758	696
24	768	780	852	907	806	666	611	630	704	670	754	775	774	769	764	759	757	737	733	732	736	746	767	771	749
25	767	764	768	775	776	778	771	718	685	630	761	759	736	746	759	756	754	728	729	740	747	754	765	812	749
26	808	822	840	877	927	776	538	635	575	409	417	468	559	503	589	639	670	678	725	756	766	764	791	786	680
27	770	775	780	787	799	899	943	726	640	425	573	718	776	787	785	755	730	700	705	734	769	705	758	817	744
28 D	847	978	1052	931	951	873	437	328	409	557	406	277	238	394	187	335	403	664	733	695	737	780	896	882	625
29	865	781	763	762	779	769	758	756	754	756	755	729	678	698	710	742	734	725	707	749	787	748	817	791	755
30	992	851	908	947	869	694	791	709	667	487	448	335	499	793	771	768	690	643	681	698	733	719	713	746	715
31	752	807	908	815	819	755	691	796	565	507	616	402	476	460	690	748	762	756	755	751	746	746	746	744	701
Mean	797	795	810	802	796	770	734	706	596	584	617	588	594	632	656	663	683	714	715	727	744	756	772	790	710

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 10 Meanook

D = 24° E + ...'

March 1947

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	61.0	60.1	60.2	60.6	61.0	61.5	63.6	62.8	65.7	63.9	69.8	72.5	65.0	65.5	67.6	67.9	68.0	67.6	63.6	61.0	59.5	59.2	58.7	59.2	63.6
2 D	58.3	58.0	57.6	58.0	59.0	56.0	56.1	53.0	53.3	63.5	67.7	92.5	102.8	65.4	90.9	78.2	74.7	73.8	41.4	40.0	61.7	65.5	63.7	57.1	64.5
3 D	59.1	65.6	46.7	61.2	61.1	69.5	75.0	57.8	60.3	05.6	72.3	78.7	95.3	78.0	78.0	85.4	68.8	66.0	81.5	91.4	112.1	92.1	80.4	88.6	72.1
4	69.0	75.9	75.9	63.2	78.4	49.0	64.1	59.5	60.7	69.8	67.5	67.1	68.8	65.3	62.5	69.4	70.1	69.7	70.2	71.4	66.9	63.4	66.1	65.3	67.0
5	63.4	66.2	64.8	62.6	61.9	65.2	65.9	67.6	62.8	61.0	61.7	59.4	65.2	63.8	67.0	67.0	73.1	73.8	69.6	65.0	62.0	59.7	58.9	60.1	64.5
6 Q	62.0	60.6	61.0	61.3	61.3	61.1	61.6	60.9	63.1	63.5	60.6	61.5	63.2	66.4	68.0	68.3	72.2	72.8	69.9	63.0	60.4	58.8	59.5	59.7	63.4
7	61.1	60.6	60.6	61.5	61.3	60.4	60.0	62.1	78.3	71.1	71.3	68.6	83.2	73.7	71.0	71.2	70.2	71.3	73.9	67.5	63.8	62.3	59.6	61.7	66.9
8 D	61.7	63.1	63.6	63.6	62.4	63.6	65.6	74.6	53.2	102.7	110.9	60.8	52.7	80.6	68.2	58.5	71.8	77.4	69.1	68.3	69.0	62.8	59.1	67.6	68.8
9	62.1	63.4	51.3	48.7	53.6	58.3	61.7	83.0	60.3	63.6	69.7	55.2	51.3	75.1	72.1	68.2	67.3	63.7	68.5	61.2	64.4	61.5	59.9	58.4	62.6
10 Q	60.5	60.3	60.9	60.5	61.1	60.9	61.4	61.8	62.6	63.0	62.7	61.8	60.3	62.3	68.5	74.0	74.8	72.0	68.6	66.7	64.1	61.0	59.5	60.4	63.7
11 Q	60.2	60.8	60.5	60.3	60.3	60.3	60.4	61.5	62.4	65.3	64.0	62.0	60.6	64.3	67.1	68.8	69.9	70.2	67.7	64.4	60.7	59.1	58.7	59.9	62.9
12	59.2	59.5	58.8	58.5	59.3	63.3	58.5	60.1	63.4	64.0	63.6	70.3	88.7	69.0	74.8	74.5	70.2	69.0	66.8	63.0	60.4	58.2	57.5	57.0	64.5
13	58.2	58.6	58.6	60.2	59.8	60.3	60.0	60.5	61.1	63.1	63.5	63.8	65.8	66.6	69.6	72.7	74.7	69.1	68.1	64.7	60.2	61.3	61.9	60.5	63.5
14	61.0	62.1	61.3	58.2	54.9	60.1	58.4	61.6	72.2	74.9	70.8	69.8	65.0	81.4	65.8	81.7	77.4	68.6	71.2	65.9	62.4	60.7	61.1	62.4	66.2
15 D	60.2	62.4	63.2	60.8	56.9	59.0	59.0	57.1	18.7	65.3	72.9	81.4	83.2	66.5	45.7	105.1	91.7	68.7	71.2	66.9	62.1	58.4	61.0	61.6	63.4
16	62.6	63.2	62.6	63.0	62.7	62.5	60.7	60.5	52.9	63.0	64.2	64.0	64.1	65.3	67.8	65.9	66.4	80.1	72.7	71.6	70.1	68.0	69.3	63.1	65.3
17	66.6	65.3	64.8	53.3	47.6	55.5	54.2	61.6	61.6	69.5	70.2	64.9	63.3	63.1	68.0	72.2	74.3	71.9	66.9	65.5	64.7	62.7	59.9	60.3	63.7
18	59.9	60.2	59.4	63.6	66.0	60.1	60.1	60.4	60.6	62.3	67.1	71.7	67.2	66.2	63.4	69.8	72.6	68.9	69.3	69.5	62.3	58.1	57.6	57.6	63.9
19	56.0	57.1	58.2	57.7	59.5	61.1	61.4	66.8	63.0	61.0	61.4	62.1	62.0	64.8	66.4	69.8	72.0	68.7	62.5	58.2	58.1	53.8	55.1	57.0	61.4
20	57.0	58.9	57.4	57.2	55.0	64.9	62.6	55.3	65.0	62.5	61.3	62.5	61.6	64.3	67.9	71.9	70.4	69.5	67.3	61.4	54.0	54.4	55.4	56.0	61.4
21 Q	57.3	58.9	58.9	60.9	62.0	64.0	62.2	61.5	62.8	60.8	59.6	63.2	62.9	64.0	66.4	69.4	71.2	68.5	65.7	63.1	59.1	56.1	53.2	52.1	61.8
22	55.3	56.8	56.3	56.7	60.3	55.4	62.2	60.8	75.6	85.8	77.1	70.8	72.2	64.6	70.0	72.7	73.2	69.1	64.4	59.1	58.6	58.6	58.9	60.0	64.8
23	60.2	59.4	59.2	60.4	60.1	59.4	65.0	60.9	65.9	67.9	65.8	65.8	71.7	68.2	66.4	63.1	60.6	60.2	67.1	64.0	56.7	57.3	59.7	60.2	62.7
24	62.0	63.0	62.3	71.3	79.5	75.6	63.2	69.5	63.8	64.7	63.2	63.1	63.8	66.4	69.4	70.6	74.9	74.7	69.8	66.7	61.8	59.0	58.8	61.1	66.6
25	60.8	59.9	59.1	58.6	61.1	72.2	69.3	62.5	61.0	61.1	64.1	63.9	59.4	61.5	66.7	69.3	70.4	70.5	67.3	66.4	63.9	60.2	57.4	60.5	63.6
26	55.8	54.7	56.0	58.7	52.2	52.2	52.2	64.6	74.4	67.9	75.2	68.9	79.4	70.2	65.8	69.1	72.1	68.3	63.1	65.0	62.0	60.6	60.1	58.6	63.6
27	58.0	57.4	58.5	60.6	63.4	57.6	47.3	59.0	67.7	90.1	80.8	70.2	69.5	71.7	73.6	78.3	77.9	72.2	66.0	66.0	63.8	55.9	54.5	50.3	65.4
28 D	49.5	51.3	51.6	57.1	50.5	62.0	85.3	62.0	62.1	73.2	89.0	86.7	70.0	67.4	76.8	74.5	90.6	81.4	68.2	57.4	58.2	57.6	62.3	61.4	66.9
29	54.1	55.8	59.5	59.8	57.1	59.5	61.3	62.0	62.7	64.9	64.2	65.0	67.3	73.7	75.2	78.4	71.7	69.1	65.7	66.6	57.5	54.7	57.3	55.3	63.3
30	52.4	56.6	51.7	52.4	49.0	51.7	58.4	61.0	67.1	73.0	71.8	75.6	86.1	77.0	80.3	80.3	78.8	68.9	62.3	51.0	55.6	58.4	60.3	59.9	64.2
31	61.6	59.5	58.7	61.4	57.4	65.0	63.5	63.1	63.2	79.5	70.2	74.0	78.7	78.9	76.8	78.8	72.0	70.5	66.2	63.6	61.3	61.0	61.4	62.1	67.0
Mean	59.6	60.5	59.3	59.7	59.9	60.9	61.9	62.4	61.0	66.7	69.5	68.3	70.0	68.7	69.6	73.1	73.0	70.5	67.3	64.4	63.1	60.7	60.2	60.5	64.6

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

Table 11 Meanook

$z = 58,500 \gamma +$

March 1947

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	587	580	577	573	575	580	582	592	572	529	504	534	543	528	544	551	552	548	555	554	558	566	562	561	559	
2 D	566	572	576	571	566	582	607	469	527	620	627	531	510	722	577	584	555	526	490	528	549	594	577	555	566	
3 D	456	116	386	499	594	619	583	535	780	755	679	982	1129	896	602	454	500	564	651	683	587	588	382	227	594	
4	538	574	621	622	416	400	656	670	583	583	628	627	601	580	560	594	594	592	611	632	619	608	605	597	588	
5	599	602	601	584	580	574	510	463	557	557	548	573	575	574	580	584	578	578	578	574	580	584	585	592	571	
6 Q	582	578	573	570	571	573	568	565	544	546	554	555	555	555	557	558	559	560	564	568	572	578	581	578	565	
7	574	568	566	567	566	563	557	436	371	444	503	525	384	492	541	552	560	553	552	557	561	560	566	568	529	
8 D	565	564	561	567	566	542	483	484	639	524	666	548	818	815	844	645	831	685	688	656	651	665	629	556	633	
9	501	489	521	529	617	590	570	477	653	534	564	544	421	372	497	555	568	581	602	596	595	593	576	586	547	
10 Q	577	570	572	578	583	581	574	568	567	563	557	522	496	477	527	553	560	560	561	560	562	567	574	573	558	
11 Q	566	553	559	558	556	556	559	554	478	510	545	534	534	547	550	559	560	556	556	556	559	559	559	566	550	
12	563	557	553	556	587	593	585	554	516	498	509	384	330	509	554	524	540	556	560	558	557	557	557	558	534	
13	546	544	545	545	544	546	546	545	534	511	536	544	542	547	546	545	543	538	542	549	550	555	557	555	544	
14	550	545	545	550	561	546	539	462	375	364	466	292	450	364	470	553	440	542	554	560	560	572	575	583	501	
15 D	606	622	594	586	609	575	525	573	326	649	1005	843	625	638	459	476	455	573	575	573	568	593	581	585	592	
16	582	576	576	580	585	579	573	487	500	552	560	553	552	548	498	439	473	557	578	595	614	622	633	590	558	
17	568	611	615	529	612	618	427	557	579	537	478	488	473	553	555	556	558	564	570	560	564	565	564	561	553	
18	568	558	563	569	561	548	547	547	548	531	458	405	476	481	498	516	520	538	539	545	551	547	540	545	529	
19	563	558	581	586	577	556	533	530	517	540	542	538	535	533	539	536	529	533	532	530	541	544	557	560	545	
20	568	586	578	582	484	587	564	498	482	543	542	535	514	525	529	529	527	528	531	538	542	556	558	553	541	
21 Q	549	540	549	546	548	545	550	545	529	513	493	505	525	526	529	521	522	515	523	529	535	546	545	540	532	
22	528	537	558	621	564	522	561	526	445	401	473	483	470	410	461	506	534	529	537	553	549	548	545	558	517	
23	545	543	544	540	537	550	544	548	468	411	424	432	496	534	433	414	321	496	542	548	556	557	560	557	504	
24	554	563	601	512	437	439	521	460	501	534	535	547	549	549	553	551	547	536	536	541	541	546	560	562	532	
25	546	540	538	546	552	503	458	390	462	379	489	516	510	515	524	524	529	534	540	547	557	567	567	597	518	
26	588	603	611	611	521	474	525	555	611	557	581	419	315	344	412	451	458	507	547	560	561	568	579	557	521	
27	556	567	580	578	526	593	463	519	604	758	578	524	540	546	538	522	521	514	519	546	578	562	559	576	557	
28 D	599	604	429	456	566	559	372	633	706	663	669	756	604	534	304	421	580	566	591	585	607	645	642	627	572	
29	577	584	569	565	571	565	548	545	559	551	544	525	478	483	483	489	497	510	532	570	586	561	583	594	545	
30	598	592	589	466	353	525	575	464	496	489	518	633	369	490	534	534	507	492	544	576	569	550	560	572	525	
31	573	608	620	452	562	490	485	571	548	500	478	514	465	481	479	517	527	528	532	536	541	544	542	538	526	
Mean	563	555	563	555	550	551	538	527	535	537	557	546	529	537	525	526	534	547	559	567	568	571	566	559	549	



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12 Meanook

March 1947

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,500 $\gamma$ +		58,500 $\gamma$ +		
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	
1 Q	06 50	796	09 49	696	100	11 13	75.1	06 50	55.3	19.8	07 33	608	10 12	488	120
2 D	07 27	1127	13 18	-139	1266	14 04	121.7	13 21	25.0	96.7	13 35	1105	13 00	197	908
3 D	23 25	1174	11 20	-302	1476	10 37	150.5	09 25	-76.6	227.1	12 07	1508	01 37	-11	1519
4	00 02	1108	08 19	-228	1336	08 48	115.9	08 40	-06.9	122.8	08 12	916	05 03	71	845
5	06 37	791	06 07	687	104	06 23	79.7	07 11	50.7	29.0	00 38	613	07 27	433	180
6 Q	08 53	785	19 18	699	86	17 36	74.9	10 35	55.5	19.4	00 36	586	08 48	524	62
7	15 21	814	12 38	313	501	12 33	109.7	07 40	49.6	60.1	00 00	582	12 07	293	289
8 D	23 13	1055	14 45	-195	1250	10 38	163.1	12 37	-09.3	172.4	13 50	1398	11 47	-209	1607
9	02 24	1024	11 33	-30	1054	09 10	130.4	12 05	-08.0	138.4	11 34	869	03 18	269	600
10 Q	15 28	783	13 31	674	109	16 42	77.7	22 22	56.4	21.3	04 53	592	13 05	456	136
11 Q	09 44	789	08 45	671	118	18 00	72.3	08 42	55.1	17.2	00 00	572	08 43	386	186
12	14 35	818	12 11	360	458	12 15	113.4	23 20	55.1	58.3	05 41	611	12 16	128	483
13	11 28	823	18 17	695	128	16 26	76.8	00 02	56.3	20.5	22 55	568	09 25	482	86
14	03 08	806	13 16	238	568	13 23	107.2	05 38	35.5	71.7	12 54	682	08 22	216	466
15 D	05 38	853	13 55	-301	1154	09 42	161.0	08 31	-75.0	236.0	10 22	1258	09 04	283	975
16	23 11	1021	15 07	527	494	17 42	85.3	08 13	35.0	50.3	22 14	662	07 53	309	353
17	00 50	1172	08 50	397	775	09 20	84.3	03 30	04.0	80.3	04 37	669	06 23	205	464
18	23 55	790	11 13	619	171	16 14	76.4	23 58	53.6	22.8	00 25	588	11 47	348	240
19	07 53	831	07 38	700	131	17 05	75.3	21 29	51.9	23.4	03 02	593	08 12	461	132
20	04 44	889	09 12	638	251	03 59	89.6	04 10	27.6	62.0	03 44	617	08 02	433	184
21 Q	07 33	790	22 54	715	75	16 15	74.7	23 04	50.2	24.5	02 32	559	10 28	473	86
22	05 00	1009	10 05	480	529	09 51	105.1	05 08	36.2	68.9	03 29	661	09 45	299	362
23	05 31	853	16 05	071	782	16 12	94.0	16 42	36.9	57.1	18 00	583	16 07	159	424
24	03 10	1103	05 16	479	624	04 40	101.5	06 37	43.2	58.3	02 28	642	04 25	290	352
25	23 39	833	09 03	443	390	06 17	83.4	09 56	43.0	40.4	23 20	608	09 18	309	299
26	04 17	1072	10 45	207	865	12 03	92.5	06 08	26.3	66.2	10 54	700	05 25	245	455
27	06 24	1072	09 46	337	735	09 35	111.9	06 50	32.3	79.6	09 15	815	06 37	290	525
28 D	03 05	1157	07 09	090	1067	06 33	124.2	03 00	28.1	96.1	11 55	872	03 05	156	716
29	00 40	908	12 35	647	261	15 14	80.0	00 47	47.4	32.6	23 58	624	12 17	454	170
30	00 39	1187	11 51	129	1058	12 32	102.3	04 55	34.0	68.3	11 32	795	04 42	191	604
31	03 23	1050	09 14	246	804	09 14	110.6	03 45	36.0	74.6	11 15	654	03 38	179	475
Mean		941		341	600		97.4		29.2	68.2		745		284	461
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 1947

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean	
1 Q	755	751	752	758	760	762	770	783	659	733	762	765	819	776	780	783	769	749	730	729	737	741	741	755	755	
2	763	764	768	762	760	762	762	764	765	772	779	777	760	710	772	776	758	735	729	725	726	733	748	760	755	
3	766	777	782	786	772	764	764	771	772	776	779	780	782	783	782	779	764	754	738	729	740	744	755	776	767	
4	759	763	763	768	776	782	778	757	595	451	564	362	521	732	767	747	736	677	710	716	708	751	792	810	699	
5	802	775	762	747	751	755	756	755	761	761	767	757	729	732	763	763	747	720	737	728	729	736	738	747	751	
6	750	778	810	810	796	826	778	718	637	672	732	782	778	778	767	738	734	725	723	722	740	737	744	747	751	
7	753	775	790	770	771	771	771	771	775	776	779	778	753	722	762	725	749	759	743	715	714	724	751	740	756	
8	756	771	771	772	776	773	776	776	779	772	748	772	735	606	699	790	776	759	737	729	705	723	762	861	755	
9 D	877	808	776	811	858	900	795	304	259	238	351	298	727	786	776	702	721	762	752	744	741	765	743	729	676	
10	753	765	784	759	763	777	724	690	745	747	763	749	773	782	786	771	761	756	742	735	727	726	742	780	754	
11	775	749	761	779	813	795	786	722	717	743	772	765	770	773	724	703	677	706	726	738	734	753	755	774	750	
12	767	759	776	777	773	766	735	730	631	631	675	689	752	751	756	757	760	743	755	749	745	797	835	830	747	
13	797	818	800	770	781	780	773	770	761	759	730	706	706	738	720	727	736	730	738	743	753	766	777	776	756	
14	784	796	802	802	808	779	724	601	763	771	738	714	744	733	763	753	753	753	741	731	738	753	753	786	753	
15	792	808	822	833	791	789	775	738	734	621	714	732	724	731	763	744	742	749	734	742	753	740	746	757	753	
16	787	792	771	765	767	784	792	629	720	767	761	747	632	647	729	738	744	731	716	724	738	763	771	801	742	
17 D	786	759	798	798	816	757	770	767	769	761	773	774	710	484	702	519	553	617	629	687	703	698	1084	862	732	
18 D	769	795	734	722	730	733	717	679	664	682	492	373	235	216	387	594	714	796	749	782	796	808	770	764	654	
19 D	761	756	773	753	755	758	636	632	706	686	371	570	570	625	761	781	724	748	752	738	739	745	796	761	704	
20 D	763	766	757	759	788	722	740	712	564	407	537	706	683	765	786	782	769	728	696	703	735	738	755	753	713	
21 Q	761	761	764	772	782	777	652	516	753	787	779	780	784	781	783	778	763	744	736	736	739	744	742	756	749	
22 Q	758	760	765	768	769	770	772	772	771	776	781	782	783	779	786	780	762	735	726	728	724	729	739	754	761	
23 Q	758	769	781	779	774	770	776	778	781	783	785	785	789	797	793	785	770	748	729	729	734	737	744	748	768	
24 Q	759	771	777	777	779	780	780	780	784	784	784	786	789	794	793	784	767	751	738	736	730	735	742	750	769	
25	766	771	778	782	784	784	784	787	788	796	790	790	790	798	793	766	765	796	765	769	743	744	749	762	777	
26	770	773	778	782	784	784	788	794	800	792	812	812	808	808	797	798	791	769	747	753	745	755	745	746	780	
27	741	759	779	777	784	798	790	777	788	724	728	793	800	800	791	802	784	752	733	732	738	745	763	768	769	
28	787	778	764	781	823	851	788	734	779	778	773	780	770	707	633	741	737	739	739	743	744	746	762	748	759	
29	756	764	767	774	782	778	778	783	776	736	683	774	715	736	712	764	767	746	745	743	739	739	748	770	753	
30	787	772	765	778	802	782	782	771	778	757	728	777	743	721	752	753	748	748	736	744	743	750	757	764	760	
31																										
Mean	772	773	776	776	782	780	760	719	719	708	708	715	722	720	746	747	745	741	732	734	736	746	768	771	746	

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 14 Meanook

D = 24° E + ... '

April 1947

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean	
1 Q	62.1	61.4	60.2	60.3	60.9	60.3	63.1	65.3	68.4	64.8	64.6	65.8	67.6	69.1	74.5	77.9	78.1	76.3	68.9	63.1	57.6	55.5	57.0	59.1	65.1	
2	60.2	60.6	61.1	60.8	60.3	61.4	64.1	64.0	63.6	62.2	62.1	61.2	59.0	63.3	73.5	76.6	77.8	70.7	64.4	63.1	58.1	56.5	55.9	56.4	63.2	
3	57.4	59.1	60.9	60.2	59.2	59.1	59.9	63.5	63.9	62.1	62.4	63.1	64.7	68.0	71.8	75.0	76.4	71.8	69.2	64.5	60.4	56.5	52.9	54.1	63.2	
4	54.6	56.5	58.2	59.4	61.1	67.3	66.3	70.5	79.0	83.4	80.0	61.6	71.7	71.0	72.0	74.2	71.3	62.5	61.1	62.6	54.6	55.1	56.3	55.0	65.2	
5	55.3	56.6	57.4	58.4	59.8	60.4	61.0	62.1	62.9	63.3	62.4	62.1	62.2	65.8	69.9	74.2	74.7	74.1	67.6	63.3	60.7	58.1	56.3	56.7	62.7	
6	56.7	56.6	60.3	70.2	59.5	62.5	62.7	63.6	67.5	72.2	69.2	63.6	63.7	68.0	69.6	70.6	71.3	72.1	66.1	65.0	61.2	56.2	56.3	57.1	64.2	
7	56.4	56.8	59.2	59.6	60.3	60.0	60.1	60.5	61.4	61.5	60.5	58.3	61.0	64.8	61.2	62.0	69.7	71.9	71.8	66.8	61.2	58.1	55.6	55.4	61.4	
8	56.2	56.9	58.1	60.3	60.5	60.4	60.4	61.1	61.2	65.1	60.4	61.2	61.4	49.4	68.2	72.3	73.7	74.1	69.9	64.6	59.9	55.9	52.3	50.6	61.4	
9 D	51.6	54.1	54.2	55.7	58.0	53.0	44.4	68.8	59.3	72.1	72.1	51.9	68.5	69.0	70.9	73.8	74.6	71.2	69.0	64.4	61.2	61.4	58.2	57.8	62.3	
10	59.0	60.5	62.3	61.0	61.0	60.3	59.5	66.7	62.7	56.6	57.4	59.5	64.0	69.2	73.6	78.9	76.6	74.8	69.9	66.5	62.9	59.3	57.6	54.7	63.9	
11	55.4	57.8	58.5	57.7	63.8	54.6	56.0	61.9	58.9	61.9	62.6	64.1	66.1	68.0	72.1	74.8	68.8	63.6	60.7	62.8	60.5	57.2	55.2	54.5	61.1	
12	55.4	58.3	58.3	59.7	61.2	62.7	63.1	59.3	52.4	64.8	67.8	63.4	63.5	67.1	71.4	70.9	70.9	70.4	70.7	61.3	59.6	58.7	57.3	53.7	62.6	
13	48.8	48.8	54.9	57.4	57.2	57.4	58.2	60.6	61.4	60.6	60.6	63.9	69.2	66.3	67.7	67.6	68.9	66.2	61.6	60.1	58.7	56.4	54.4	52.3	60.0	
14	50.5	49.3	49.3	51.9	57.7	59.2	65.2	60.6	65.2	61.5	60.2	60.2	64.7	64.0	67.2	69.1	67.9	68.6	68.9	63.8	60.4	54.4	53.7	51.7	60.2	
15	52.2	52.4	56.3	61.1	65.9	63.0	61.9	61.5	64.5	67.8	68.9	64.2	63.2	66.7	71.5	75.9	72.5	66.7	61.6	63.0	62.4	56.2	54.5	53.4	62.8	
16	53.6	56.5	59.8	58.9	60.2	60.4	60.1	59.8	63.4	63.4	63.5	62.4	60.1	68.3	68.4	68.1	68.8	69.8	65.2	59.4	54.7	54.4	54.4	53.2	61.1	
17 D	54.1	54.6	57.1	59.7	64.3	68.3	62.5	63.3	63.3	63.7	64.0	64.0	66.6	97.5	88.5	100.1	88.0	84.8	79.6	83.8	109.6	87.7	73.0	39.4	72.4	
18 D	46.3	55.8	58.2	59.1	59.7	60.5	62.6	67.1	62.1	66.9	65.3	76.6	64.0	97.9	89.2	79.7	62.3	61.1	64.5	66.9	62.5	60.2	55.3	54.4	64.9	
19 D	56.8	55.6	63.0	60.7	60.6	65.1	68.4	71.2	65.0	65.7	59.0	65.9	74.9	84.0	73.9	70.3	76.2	64.9	59.4	57.2	57.7	57.5	54.4	56.0	64.3	
20 D	57.4	58.1	58.9	60.2	60.1	86.6	82.8	48.9	48.3	64.4	63.7	63.0	69.0	67.2	67.9	71.2	70.3	77.5	57.2	53.8	54.4	55.2	55.7	57.9	62.9	
21 Q	59.1	60.2	62.0	62.6	62.2	67.2	55.7	64.9	68.7	62.1	61.7	63.0	64.9	67.0	69.7	70.9	71.5	70.4	65.1	61.0	57.3	55.4	55.3	56.2	63.1	
22 Q	58.1	59.1	59.3	60.1	61.2	60.6	60.1	60.6	60.2	61.0	61.3	61.8	62.3	65.7	69.7	71.0	73.1	70.7	65.9	60.2	57.1	55.2	55.4	56.2	61.9	
23 Q	57.0	57.4	59.2	59.4	59.4	59.8	59.5	59.8	60.1	61.0	61.2	62.9	63.8	66.9	68.7	71.5	74.3	74.6	69.5	64.6	59.9	57.3	56.1	55.7	62.5	
24 Q	55.2	56.4	57.8	59.0	59.1	59.8	59.8	60.1	60.7	60.1	60.9	62.9	65.2	67.8	71.2	72.1	72.1	70.7	66.8	62.0	58.4	56.2	55.4	55.1	61.9	
25	55.5	56.7	57.6	58.5	59.0	59.4	59.9	60.2	60.1	58.9	59.1	61.9	64.9	66.6	57.8	68.3	68.8	66.3	63.1	63.9	63.9	59.3	57.3	56.8	61.0	
26	58.1	59.4	59.3	58.3	58.4	58.9	59.1	62.0	65.6	63.9	62.8	62.5	62.1	64.9	73.1	74.6	77.0	73.6	66.4	57.2	54.9	52.9	52.6	53.8	62.1	
27	55.7	57.4	58.7	60.8	59.8	60.8	62.3	66.7	63.6	61.3	66.8	65.5	65.9	68.0	72.1	72.1	70.7	71.9	63.6	58.3	51.2	51.4	53.3	55.2	62.2	
28	56.6	58.2	59.2	60.2	58.9	66.2	62.2	58.9	63.2	61.7	61.3	62.9	62.2	64.8	72.0	73.8	74.1	73.8	68.3	64.6	56.0	54.9	54.3	55.4	62.7	
29	59.0	60.1	60.4	61.3	61.2	60.1	61.8	60.1	58.5	68.1	79.2	67.4	68.9	71.3	76.0	75.2	72.5	69.8	65.4	60.0	56.0	54.3	53.4	54.9	64.0	
30	58.4	60.1	60.4	60.7	60.1	63.2	63.0	59.6	60.9	64.9	70.2	65.2	65.6	68.1	68.5	68.9	67.4	63.8	62.9	51.2	51.3	51.6	54.6	56.3	61.5	
31																										
Mean	55.8	57.0	58.7	59.8	60.4	62.0	61.5	62.1	62.5	64.2	64.4	63.1	65.0	69.2	71.4	73.4	72.7	70.6	66.1	62.6	60.1	57.3	55.8	54.6	62.9	

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

Table 15 Meanook

$z = 58,500 \gamma +$

April 1947

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24			
1 Q	540	530	530	529	529	530	543	543	474	432	496	514	531	532	531	534	535	530	523	529	536	540	540	537	524	524	
2	526	518	523	524	523	523	522	518	515	515	515	516	510	474	490	513	516	516	517	520	526	526	525	518	516	516	
3	514	521	525	556	556	531	524	518	525	520	517	517	518	521	518	517	515	513	515	521	522	532	543	550	525	525	
4	552	543	533	529	536	543	520	479	423	576	587	543	463	500	528	516	504	489	524	549	565	574	594	608	532	532	
5	591	560	535	522	518	518	519	518	519	518	512	507	480	496	513	514	513	509	518	512	517	524	532	531	521	521	
6	520	524	551	575	570	584	556	492	419	372	450	498	518	520	518	507	508	515	519	523	532	537	528	528	515	515	
7	516	514	527	510	514	513	510	509	508	505	503	496	460	430	471	480	476	494	500	494	501	512	531	527	500	500	
8	512	502	502	500	505	502	502	502	502	488	416	459	416	362	433	493	510	511	504	506	506	510	513	548	488	488	
9 D	618	562	553	571	604	527	432	591	732	607	704	607	506	515	507	495	486	521	523	526	526	615	615	523	561	561	
10	522	526	545	526	519	519	434	411	477	484	514	505	516	519	516	506	498	497	497	505	508	516	520	537	505	505	
11	539	517	504	508	537	526	507	474	453	449	496	498	499	505	487	464	440	458	453	509	512	530	553	563	499	499	
12	538	511	521	533	519	538	468	454	385	417	440	430	453	454	454	463	494	499	520	527	525	540	586	572	493	493	
13	557	561	561	522	523	532	516	511	494	489	443	403	410	451	462	462	480	481	490	496	505	526	537	530	498	498	
14	533	544	558	570	558	505	439	317	449	482	448	407	450	464	482	482	488	493	493	503	520	534	523	527	490	490	
15	535	549	557	567	528	526	510	449	436	382	383	426	431	447	482	504	510	514	515	521	535	530	535	527	496	496	
16	524	543	537	503	494	501	504	352	401	467	467	473	427	365	406	420	449	474	490	503	503	504	516	532	473	473	
17 D	548	528	544	524	527	460	492	481	485	463	463	479	406	276	282	278	292	373	422	417	461	436	363	557	440	440	
18 D	556	547	521	515	515	516	502	441	418	404	437	561	358	342	412	448	480	514	525	536	531	547	525	518	486	486	
19 D	515	528	547	512	512	494	394	450	426	474	576	468	396	428	486	504	498	510	511	504	505	506	512	509	490	490	
20 D	516	510	504	502	506	411	389	435	556	587	502	479	449	483	500	504	503	494	496	502	502	499	503	501	493	493	
21 Q	503	503	506	508	519	522	452	344	428	495	506	503	504	505	503	504	503	496	495	492	492	495	495	496	490	490	
22 Q	500	499	495	494	495	496	495	495	493	494	495	496	497	494	495	495	495	495	490	487	486	497	498	505	495	495	
23 Q	507	501	503	501	507	500	498	496	492	491	491	489	488	488	488	489	487	486	482	476	474	478	487	489	491	491	
24 Q	493	488	489	489	488	488	495	490	492	490	492	494	494	497	497	496	490	487	483	481	485	486	484	484	490	490	
25	492	492	491	490	490	489	490	489	488	489	463	472	489	494	495	485	476	479	483	486	479	489	495	509	487	487	
26	512	512	501	494	491	494	492	498	479	464	471	474	483	482	471	470	473	479	471	483	487	505	523	523	489	489	
27	507	502	503	504	506	529	499	479	480	408	389	475	497	495	483	488	490	489	491	502	513	513	504	499	489	489	
28	503	502	495	499	529	531	534	470	473	489	493	500	497	441	351	468	488	500	502	511	521	525	527	510	494	494	
29	503	502	500	500	505	512	501	503	486	417	391	464	433	453	411	438	464	477	485	494	500	503	503	511	477	477	
30	525	522	498	500	518	522	518	487	479	453	443	483	465	447	478	453	489	494	499	505	501	506	507	505	492	492	
31																											
Mean	527	522	522	519	521	513	492	473	480	477	483	488	468	463	472	480	485	493	499	504	509	518	521	526	498	498	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16 Meanook

April 1947

Day	Horizontal Intensity					Declination					Vertical Intensity										
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range						
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,500 $\gamma$ +		58,500 $\gamma$ +								
	h.	m.	$\gamma$	h.	m.	$\gamma$	h.	m.	'	h.	m.	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$		
1 Q	08	00	800	08	46	530	270	08	40	82.6	21	07	54.4	28.2	07	03	567	09	08	325	242
2	15	00	797	13	18	674	123	16	04	83.4	12	50	54.7	28.7	19	11	529	13	32	431	98
3	14	59	816	19	44	693	123	16	03	80.2	22	46	51.0	29.2	04	06	578	16	04	506	72
4	23	40	833	11	42	229	604	10	00	112.4	11	52	36.0	76.4	11	05	686	11	28	233	453
5	00	16	841	13	11	699	142	17	52	80.9	00	05	52.5	28.4	00	22	612	12	33	250	362
6	03	04	864	08	24	591	273	09	07	85.9	08	23	50.0	35.9	03	10	623	09	39	259	364
7	03	12	790	13	30	697	93	14	52	75.1	22	52	54.3	20.8	22	53	546	13	51	413	133
8	23	46	926	13	25	530	396	16	10	76.0	13	45	41.1	34.9	23	45	571	13	18	288	283
9 D	06	07	1001	11	29	071	930	10	07	119.9	06	17	24.5	95.4	11	12	858	07	19	238	620
10	02	32	808	07	31	639	169	15	52	83.8	06	36	49.1	34.7	02	45	554	06	36	355	199
11	04	35	847	07	35	628	219	15	13	80.6	08	32	27.0	53.6	05	34	575	08	59	397	178
12	22	49	872	09	34	484	388	17	30	79.2	08	35	40.7	38.5	22	50	612	08	47	294	318
13	01	16	827	12	36	686	141	12	37	73.5	00	39	45.6	27.9	01	00	577	11	28	386	191
14	03	55	827	07	21	519	308	07	52	76.8	07	20	36.2	40.6	03	51	583	07	27	193	390
15	03	11	920	09	13	562	358	16	17	79.5	03	19	47.8	31.7	03	15	624	09	44	263	361
16	06	47	857	07	38	499	353	06	55	97.9	07	39	44.9	53.0	02	19	571	07	43	303	268
17 D	22	20	1395	13	05	125	1270	20	48	165.9	23	32	23.3	142.6	21	02	654	15	22	095	559
18 D	01	10	884	13	12	-44	928	13	45	122.0	12	15	36.9	85.1	11	14	739	13	33	176	563
19 D	22	52	857	10	43	107	750	06	57	111.6	06	25	41.0	70.6	10	37	655	07	12	248	407
20 D	06	05	858	09	32	029	829	05	49	119.6	08	20	37.8	81.8	09	46	742	07	29	351	391
21 Q	04	40	804	07	43	217	587	07	50	81.0	06	47	40.7	40.3	05	55	540	07	40	223	317
22 Q	14	27	791	19	07	716	75	16	39	73.9	21	22	54.5	19.4	23	55	508	13	51	485	23
23 Q	14	59	801	19	31	715	86	17	05	76.5	22	31	54.3	22.2	04	37	510	20	18	471	39
24 Q	13	13	796	20	47	728	68	15	33	73.3	22	48	54.3	19.0	06	13	501	18	15	480	21
25	17	04	831	16	27	730	101	16	54	76.4	00	00	55.2	21.2	23	55	518	10	47	444	74
26	15	16	819	23	50	720	99	17	02	86.4	19	31	48.0	38.4	23	10	536	18	18	449	87
27	14	03	821	09	53	595	226	14	40	79.6	20	37	46.8	32.8	06	12	540	09	47	279	261
28	05	12	936	14	48	510	426	16	16	80.1	05	03	51.3	28.8	06	04	567	14	10	297	270
29	23	38	813	10	45	630	183	10	27	87.8	21	25	52.0	35.8	23	40	530	10	30	337	193
30	04	30	848	18	07	715	133	15	33	73.2	19	20	49.5	23.7	00	50	539	10	30	408	131
31																					
Mean			862			507	355			89.2			45.2	44.0			591			329	262
No. days			30			30	30			30			30	30			30			30	30

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

Table 17 Meanook

H = 12,000  $\gamma$  +

May 1947

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	777	815	779	763	787	794	726	742	773	790	789	785	768	726	731	742	706	712	746	747	757	765	774	782	762
2 Q	762	771	780	776	783	783	780	777	773	774	772	774	778	781	781	772	759	752	741	734	734	733	741	749	765
3	764	778	780	789	779	785	778	781	781	781	780	778	783	788	804	787	763	746	745	742	740	741	753	760	771
4	778	782	778	774	781	781	783	784	790	791	788	790	794	802	800	787	774	753	739	749	752	753	763	767	776
5	774	793	806	796	787	782	766	711	754	792	785	791	801	808	801	766	752	741	734	733	734	749	750	768	770
6	778	780	782	778	782	785	788	789	789	790	792	795	799	790	778	733	755	764	757	770	756	754	752	821	777
7	799	774	778	784	783	780	783	782	785	785	789	782	786	789	799	791	782	771	763	757	756	751	748	771	778
8 Q	781	791	791	787	788	787	787	787	787	784	784	778	793	799	801	791	765	754	745	737	749	757	770	776	778
9 Q	777	784	787	780	780	784	786	787	793	792	791	793	798	799	795	782	772	756	751	752	763	757	757	767	778
10 Q	782	789	788	785	785	794	796	789	786	785	777	777	776	775	773	775	761	748	743	749	761	764	771	788	776
11	780	784	788	787	790	798	790	790	785	778	780	786	782	775	756	756	745	742	746	749	754	777	786	815	776
12	856	902	988	826	793	779	775	775	780	787	789	708	706	752	758	759	765	750	748	756	774	779	764	825	787
13	785	749	759	764	779	808	808	797	790	790	787	779	753	764	775	765	748	732	728	757	785	857	898	942	784
14 D	983	1014	1113	1042	925	865	845	751	630	623	461	339	535	755	767	780	742	725	735	753	767	769	792	795	771
15 D	792	806	886	940	804	794	768	785	679	527	691	769	697	637	679	729	764	769	765	750	753	792	847	979	767
16 D	1044	1032	993	899	746	839	609	523	705	603	441	648	706	516	626	781	786	766	750	740	743	777	878	872	751
17	851	847	800	811	800	761	651	753	756	674	636	637	596	669	745	727	743	746	738	732	753	762	800	827	742
18	809	817	791	815	791	791	790	733	726	711	751	791	793	793	767	742	717	726	739	741	737	772	772	787	767
19	777	788	812	824	766	806	765	601	631	711	753	774	796	788	778	792	787	761	745	747	753	756	776	794	762
20	770	782	778	799	791	788	793	773	765	785	760	684	776	780	782	766	745	739	730	731	747	752	753	774	764
21	781	805	788	785	793	797	801	762	780	787	787	783	787	800	808	789	770	749	713	727	747	759	760	819	778
22	779	768	773	770	777	782	782	783	789	793	797	789	782	793	797	792	781	750	722	719	741	746	776	797	774
23 D	792	822	899	1032	1059	938	876	841	818	832	819	813	833	839	845	828	800	775	749	756	751	755	759	768	833
24 D	790	776	790	790	804	847	715	444	572	733	776	811	709	800	824	804	779	763	759	736	728	738	756	751	750
25	739	761	774	759	746	764	764	766	766	700	704	789	739	783	779	795	766	747	744	754	761	783	775	792	760
26	782	817	836	826	815	779	736	651	722	749	686	724	788	792	797	782	763	753	775	772	792	844	818	836	776
27	849	812	826	803	808	790	802	765	622	731	763	745	718	702	734	763	763	729	739	747	757	771	783	802	764
28	788	785	807	777	771	776	779	783	788	790	773	783	791	744	598	729	708	707	699	757	765	809	791	763	761
29	788	771	768	788	788	823	822	727	782	731	547	615	783	788	708	570	617	664	701	749	759	781	803	794	736
30 Q	791	769	768	769	768	770	775	778	779	782	786	785	786	777	763	753	739	727	744	761	770	779	774	768	769
31	773	773	770	766	772	777	783	792	797	807	801	811	828	834	815	778	768	751	768	756	762	738	795	873	787
Mean	802	808	818	812	797	798	774	745	751	751	740	749	760	766	767	765	751	744	742	747	755	768	782	804	771

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 18 Meanook

D = 24° E + ...'

May 1947

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	57.1	58.8	60.6	64.7	62.9	65.0	68.4	62.4	63.1	58.5	57.3	55.7	54.5	65.0	68.5	67.7	68.7	66.9	58.6	58.0	56.9	55.1	57.1	58.5	61.2
2 Q	60.0	60.6	61.2	64.8	62.5	63.2	65.6	60.7	58.5	58.8	59.4	61.7	65.0	66.5	68.6	69.9	71.5	69.8	64.3	58.1	58.0	57.3	57.2	57.0	62.5
3	58.8	60.5	61.8	64.8	62.1	61.6	62.9	61.2	59.0	60.1	58.8	59.8	64.8	71.3	75.6	76.7	77.7	72.8	63.4	59.5	58.0	56.3	55.4	55.8	63.3
4	56.9	57.8	59.0	59.3	60.3	60.8	61.3	61.3	59.9	64.4	61.8	62.2	65.7	68.6	71.6	72.1	71.3	66.2	62.8	56.3	53.4	53.9	52.5	52.9	61.3
5	54.8	57.1	61.2	64.8	59.7	59.3	61.8	62.1	68.6	59.4	58.9	62.8	65.9	70.2	71.8	73.4	73.7	71.1	65.0	58.3	57.0	54.6	53.3	53.3	62.4
6	54.7	56.3	58.1	59.3	60.1	61.8	62.8	61.7	60.3	59.9	59.3	60.8	62.9	66.3	68.8	71.3	71.6	69.9	68.6	62.6	61.0	58.0	56.4	54.8	62.0
7	61.4	59.0	58.6	59.5	60.6	62.9	62.4	60.9	59.8	59.8	59.5	59.0	63.3	66.5	69.5	69.8	69.8	67.7	65.8	62.7	60.0	56.9	55.6	54.7	61.9
8 Q	55.2	56.8	58.6	59.7	59.9	59.9	60.1	60.7	60.5	59.9	59.8	59.6	65.8	68.6	70.7	71.6	70.4	68.1	63.6	61.2	58.0	53.5	53.2	54.0	61.2
9 Q	55.9	56.7	58.3	58.7	58.3	58.9	59.6	59.9	59.9	60.1	61.8	63.2	63.6	65.5	55.2	66.8	64.9	62.8	62.0	60.9	57.8	56.1	54.4	54.9	60.3
10 Q	55.8	55.9	56.2	57.6	58.0	58.2	58.3	58.0	58.0	60.4	59.9	65.0	69.3	75.9	77.8	77.8	75.3	69.5	64.3	57.7	54.5	52.7	51.5	51.2	61.6
11	53.2	56.0	58.1	58.5	58.2	57.5	55.9	58.7	57.7	59.7	62.5	65.2	65.3	67.9	69.6	76.1	72.2	63.3	59.6	57.3	53.2	50.7	46.6	45.5	59.5
12	44.2	43.7	43.7	56.1	57.9	56.9	56.9	57.6	57.9	59.4	55.5	54.0	64.0	68.4	68.6	67.3	70.3	68.6	62.8	58.5	56.4	53.2	52.4	49.4	57.7
13	53.8	54.4	55.2	57.3	58.6	57.5	59.3	60.4	60.5	61.9	61.9	63.4	66.5	69.1	70.9	73.3	76.2	70.9	61.3	61.3	62.7	62.6	57.6	54.7	62.1
14 D	49.2	52.3	65.6	59.1	56.3	58.0	56.9	46.3	53.7	58.7	81.4	78.2	70.7	69.2	70.0	69.2	72.9	65.3	64.4	60.8	58.2	55.9	55.8	55.7	61.8
15 D	54.3	53.8	54.1	56.7	61.8	57.3	55.5	59.7	54.6	58.3	57.9	63.2	66.6	65.3	69.2	71.1	68.5	67.7	62.5	55.4	58.1	57.4	52.3	56.6	59.9
16 D	55.2	57.2	60.4	48.9	53.8	54.0	52.7	56.3	64.8	54.0	59.1	68.8	69.2	71.5	67.2	81.5	77.1	75.2	64.3	60.3	54.7	54.1	57.6	56.2	61.4
17	56.7	56.8	59.3	60.9	59.6	58.7	51.8	56.7	58.3	53.1	61.5	58.5	59.1	68.3	77.2	80.6	73.4	70.7	61.9	53.7	51.2	51.1	53.1	52.2	60.2
18	55.0	58.3	61.6	67.3	62.5	60.7	60.1	68.0	60.3	60.9	57.8	61.5	68.3	72.9	76.2	79.5	82.8	81.0	70.1	60.0	51.5	51.6	53.3	54.7	64.0
19	59.6	60.6	61.4	61.5	54.7	62.3	60.7	63.5	69.7	70.0	64.7	62.2	66.8	70.9	77.9	79.6	79.6	71.6	65.9	58.6	54.7	51.5	49.2	48.9	63.6
20	51.8	54.7	56.8	59.6	63.7	59.7	61.2	62.7	59.3	57.9	56.6	57.7	69.9	74.4	77.9	76.2	71.1	64.9	59.2	55.5	52.0	49.6	49.7	50.9	60.5
21	54.0	53.8	56.9	57.6	56.8	55.5	65.6	57.8	58.6	57.9	58.6	62.9	69.2	76.0	78.1	75.6	73.1	70.7	67.7	62.5	53.7	51.1	52.6	54.7	61.7
22	58.6	59.7	60.3	59.4	57.8	57.5	57.5	57.7	58.2	59.3	58.6	61.5	67.0	75.0	77.0	76.3	73.0	67.6	61.5	54.4	49.8	48.7	49.1	49.2	60.6
23 D	51.3	50.1	45.3	44.0	54.4	45.8	49.9	53.5	56.8	57.9	63.0	65.2	69.6	74.8	78.3	81.3	77.9	69.8	64.2	55.0	50.9	50.2	52.2	54.7	59.0
24 D	56.8	59.5	58.8	59.5	57.6	56.0	50.8	57.8	67.2	66.0	66.0	61.3	72.3	84.5	86.0	85.1	80.6	74.9	70.8	59.7	54.9	49.9	50.7	52.6	64.1
25	57.0	57.8	60.3	61.5	60.3	61.3	62.6	62.1	59.5	54.9	55.5	58.0	65.6	71.3	76.1	79.1	74.0	70.9	68.6	59.2	57.2	54.8	57.0	58.8	62.6
26	62.4	62.5	66.2	64.0	65.0	64.6	56.7	57.5	61.4	58.7	58.7	64.0	69.5	80.7	82.6	76.2	72.7	70.6	63.2	55.6	51.9	57.5	56.6	57.3	64.0
27	55.4	59.7	62.7	58.5	59.6	59.2	61.3	52.2	52.7	55.9	57.5	59.6	65.0	76.9	80.6	81.8	74.6	71.1	56.0	54.6	45.9	50.9	52.4	55.2	60.8
28	56.8	56.4	55.6	59.4	58.0	57.5	56.7	60.1	61.0	56.9	57.4	62.4	69.3	71.0	77.2	73.4	75.0	68.8	61.3	47.7	49.4	50.6	51.4	54.9	60.3
29	56.3	57.8	59.0	60.1	59.4	64.5	61.6	67.8	64.2	53.7	66.1	64.1	66.9	69.3	78.6	79.9	73.3	66.6	59.5	53.8	50.1	55.3	58.4	61.1	62.7
30 Q	63.2	63.2	61.0	59.7	58.6	58.7	57.7	58.4	58.4	58.3	58.2	59.8	63.4	66.9	69.9	73.4	67.4	60.3	55.4	53.6	51.6	51.1	51.6	54.5	59.8
31	56.0	57.3	57.3	57.4	57.4	58.0	58.1	57.2	59.4	61.1	60.6	58.4	66.5	71.9	70.4	71.8	71.6	68.3	59.5	65.2	62.4	55.3	49.7	48.7	60.8
Mean	55.9	56.9	58.5	59.4	59.2	59.1	59.1	59.4	60.1	59.2	60.5	61.9	66.2	71.0	73.8	75.0	73.3	69.1	63.2	58.0	55.0	53.8	53.4	54.0	61.5

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

Table 19 Meanook

$Z = 58,500 \gamma +$

May 1947

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	499	518	518	502	500	526	437	405	471	500	517	511	502	455	437	456	459	456	482	489	492	499	504	516	485	
2 Q	496	497	505	501	495	487	487	492	490	494	492	497	496	494	489	482	484	490	491	496	496	509	511	508	495	
3	500	498	493	500	489	489	488	483	478	472	478	486	491	496	490	489	488	487	486	489	488	489	491	493	489	
4	488	485	483	479	480	482	483	480	477	459	471	485	489	486	482	477	481	476	475	480	484	485	480	475	480	
5	476	485	498	501	497	506	485	392	410	467	481	493	494	494	489	474	467	466	472	493	487	493	489	491	479	
6	486	483	479	480	481	485	488	486	482	465	471	488	494	475	461	378	398	422	454	470	475	485	484	528	471	
7	530	495	477	478	479	481	479	475	473	473	473	472	476	475	477	476	471	466	468	471	481	484	482	484	479	
8 Q	479	473	473	473	473	471	471	470	468	463	462	450	463	473	473	469	464	463	465	471	468	468	467	468	468	
9 Q	466	466	467	466	464	465	466	467	466	463	465	465	466	461	459	457	454	450	449	450	453	458	459	462	461	
10 Q	463	462	462	457	457	458	459	464	469	460	443	438	432	426	415	421	424	428	437	448	463	478	486	489	452	
11	488	487	482	477	470	466	466	463	456	452	445	424	424	410	402	404	409	411	419	445	465	483	511	540	454	
12	573	584	539	532	504	478	465	468	464	463	460	385	347	394	368	448	465	473	470	473	483	490	484	509	472	
13	500	473	458	456	462	477	486	468	464	465	467	464	435	442	453	457	457	444	465	495	570	605	620	481		
14 D	594	499	462	426	488	540	471	446	411	377	319	405	400	436	452	485	485	486	486	508	508	499	499	494	466	
15 D	471	481	536	518	490	502	477	454	430	346	381	453	415	395	348	376	454	473	470	477	497	536	549	607	464	
16 D	585	523	466	364	373	493	402	310	388	356	229	253	376	372	325	497	489	479	478	496	507	530	582	545	434	
17	534	531	522	532	492	436	269	415	444	362	374	339	317	382	432	438	439	456	472	470	487	509	505	501	444	
18	501	524	526	518	489	489	493	390	395	424	444	489	493	490	475	460	446	454	476	511	495	490	500	517	479	
19	505	506	511	511	435	501	495	429	411	407	402	442	481	489	472	483	497	494	488	483	489	493	504	517	477	
20	518	510	497	486	471	450	474	446	442	458	440	382	450	464	470	469	466	468	467	478	490	493	495	491	470	
21	497	499	487	486	488	489	442	349	433	449	460	462	471	467	469	464	461	457	455	468	480	490	489	519	468	
22	521	503	492	480	473	474	475	476	476	476	475	468	457	450	451	459	467	462	460	464	478	476	481	483	474	
23 D	489	491	520	457	412	453	455	489	495	502	502	491	487	487	485	477	467	463	464	466	475	485	489	498	479	
24 D	502	495	489	489	494	508	470	491	902	690	696	605	558	498	504	497	488	480	483	481	480	484	491	508	533	
25	518	521	531	520	511	515	513	509	500	453	466	507	491	473	482	488	491	487	494	505	514	529	543	558	505	
26	546	543	555	553	553	525	495	425	451	459	467	460	470	479	481	490	471	473	486	495	509	540	563	578	503	
27	560	544	560	531	548	529	537	495	393	430	451	471	462	462	483	502	507	513	523	527	523	540	541	540	507	
28	531	523	523	520	513	511	511	499	499	507	503	513	511	479	328	436	477	508	523	540	531	549	555	544	506	
29	547	530	525	530	530	545	520	464	491	459	438	509	503	503	468	359	431	458	482	513	539	556	548	538	499	
30 Q	530	516	510	509	509	512	514	512	515	515	516	519	521	518	513	515	514	500	489	497	500	509	508	509	511	
31	513	512	511	512	513	514	514	513	511	527	525	522	526	521	511	499	495	497	511	515	545	562	597	621	524	
Mean	513	505	502	492	485	492	474	456	473	461	458	463	464	462	453	461	467	469	475	485	493	505	513	521	481	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20 Meanook

May 1947

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° East +			Minimum 24° East +			Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +					
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$
1	05	24	841	06	52	668	173	06	18	76.4	12	31	45.4	31.0	05	27	565	06	50	351	214
2 Q	13	43	790	21	22	725	<u>65</u>	17	26	72.3	20	25	56.1	16.2	22	07	519	15	40	475	44
3	14	35	813	21	10	735	78	17	51	79.3	22	03	54.2	25.1	00	00	508	09	07	464	44
4	14	26	809	18	23	724	85	16	15	74.4	22	36	51.6	22.8	00	58	495	09	50	432	63
5	02	53	815	07	48	657	158	15	34	75.8	21	48	52.1	23.7	05	14	514	07	51	347	167
6	23	52	844	15	13	711	133	15	52	76.0	00	03	53.3	22.7	23	55	552	15	30	354	198
7	00	00	827	21	46	746	81	14	30	71.8	23	48	54.1	17.7	00	17	549	17	28	461	88
8 Q	14	13	806	19	14	729	77	15	14	72.8	22	25	52.3	20.5	00	00	482	11	24	441	41
9 Q	14	12	803	18	07	746	57	15	33	68.2	22	37	54.0	<u>14.2</u>	02	19	472	18	20	448	<u>24</u>
10 Q	06	47	808	18	00	734	74	15	02	78.9	23	16	50.0	28.9	23	44	497	14	31	407	90
11	23	53	844	17	38	734	110	15	06	77.1	23	52	42.2	34.9	23	56	561	14	38	394	167
12	02	14	1152	11	57	630	522	16	35	73.4	02	20	26.3	47.1	01	15	610	12	03	299	311
13	23	17	956	18	48	714	242	17	13	80.9	00	06	48.2	32.7	23	49	629	12	52	427	202
14 D	02	43	1174	11	23	239	935	10	33	111.8	07	20	29.9	81.9	00	37	632	11	03	232	400
15 D	23	51	1060	09	53	372	688	09	20	81.1	08	50	37.6	43.5	23	43	637	08	54	259	378
16 D	01	46	1131	06	05	<u>173</u>	<u>958</u>	04	02	113.9	06	10	<u>-11.0</u>	<u>124.9</u>	22	55	623	10	25	<u>109</u>	514
17	01	35	948	12	08	434	514	15	19	83.2	06	03	41.2	42.0	03	41	568	06	18	169	399
18	07	50	893	07	34	653	240	07	49	85.4	20	53	47.8	37.6	03	35	548	07	33	328	220
19	03	51	913	07	37	460	453	07	35	82.2	04	30	39.9	42.3	03	52	559	07	42	284	275
20	03	38	819	11	22	622	197	14	50	80.0	21	09	48.3	31.7	00	00	525	11	27	313	212
21	06	32	930	18	45	698	232	06	43	88.8	21	53	49.9	38.9	23	45	535	07	14	263	272
22	22	47	879	19	02	706	173	15	28	77.9	22	44	44.6	33.3	00	05	534	13	03	444	90
23 D	04	15	<u>1178</u>	18	53	734	444	15	23	84.9	06	03	24.7	60.2	03	08	595	04	05	272	323
24 D	13	47	933	08	13	274	659	08	13	<u>118.2</u>	08	28	30.4	87.8	08	27	<u>1133</u>	07	08	377	<u>756</u>
25	23	31	815	09	52	440	375	15	02	83.2	09	47	42.0	41.2	23	45	570	09	54	277	293
26	21	36	918	07	00	602	316	13	15	88.7	10	11	46.7	42.0	23	01	627	07	32	319	308
27	00	18	899	08	22	492	407	15	32	83.3	08	07	39.3	44.0	00	13	592	08	18	302	290
28	21	14	843	14	23	539	304	15	04	87.4	19	16	44.8	42.6	22	50	568	14	35	257	311
29	08	27	869	10	30	453	416	15	27	85.5	10	17	45.2	40.3	21	45	564	15	27	324	240
30 Q	00	15	812	17	43	724	88	15	47	78.9	21	07	48.8	30.1	00	12	539	18	25	487	52
31	24	00	974	20	43	708	266	17	02	77.7	23	47	44.4	33.3	24	00	648	16	00	486	162
Mean			909			599	310			82.9			43.0	39.9			579			348	231
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 1947

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	1055	1094	1160	1185	604	746	811	741	692	641	702	639	588	746	762	760	760	759	747	745	746	747	759	770	790	
2 Q	767	769	763	762	761	763	768	773	778	781	780	790	795	790	790	768	754	752	736	733	731	737	762	807	767	
3	834	838	849	881	857	793	789	776	780	781	787	795	851	808	810	793	776	759	772	762	758	755	762	774	798	
4	783	782	778	771	774	776	782	787	796	787	794	801	803	818	815	791	756	761	780	778	776	785	782	789	785	
5 D	787	794	783	781	789	797	785	686	349	507	693	778	819	857	843	841	830	797	777	762	766	824	863	1130	777	
6	1126	816	745	736	734	730	735	748	756	761	766	770	771	762	774	768	761	748	742	748	752	754	766	804	774	
7	835	808	825	831	800	784	802	784	695	716	720	724	728	724	767	742	707	711	735	751	773	853	1022	982	784	
8	1003	989	1061	981	818	802	677	742	739	613	728	721	633	676	696	709	763	726	739	747	760	800	784	785	779	
9	797	810	866	892	828	735	730	672	738	763	553	544	631	654	713	783	785	754	764	766	761	776	772	841	747	
10	832	854	855	850	849	801	787	849	786	762	719	730	762	748	769	804	806	786	764	748	747	734	769	808	788	
11	809	784	779	769	789	806	792	766	749	769	765	754	756	751	777	784	793	773	755	751	749	750	756	776	771	
12 Q	765	775	776	776	783	794	790	780	776	775	774	768	757	746	757	767	767	764	744	744	741	765	788	820	770	
13	791	829	810	792	771	783	786	777	764	768	767	756	760	775	750	753	753	753	750	765	767	831	917	1073	793	
14 D	1219	1232	1084	901	884	839	835	734	707	552	699	615	667	700	800	802	787	764	761	814	788	771	783	861	817	
15	840	792	850	910	830	818	861	814	776	746	704	697	685	772	785	766	766	786	759	768	772	776	775	769	784	
16 Q	776	768	763	774	772	772	777	782	786	791	795	800	812	816	810	795	771	747	750	739	748	761	769	796	778	
17 D	793	801	814	901	871	760	692	669	546	614	638	646	655	669	622	701	754	709	737	772	765	761	768	756	726	
18	752	734	740	742	818	897	816	765	738	600	504	549	781	797	819	811	799	789	759	761	739	765	766	805	752	
19	818	869	841	885	820	816	816	816	780	723	747	785	815	811	779	763	734	712	724	732	702	720	771	782	782	
20	792	811	818	812	809	809	809	721	737	780	782	814	797	791	827	815	797	773	753	759	770	769	776	780	788	
21	780	802	809	803	789	802	797	797	793	787	795	795	782	807	814	798	781	751	765	764	754	780	833	790	790	
22	788	872	821	819	799	791	802	791	796	795	795	798	820	839	852	838	807	755	795	794	795	812	763	795	806	
23	856	810	822	790	792	812	799	810	733	652	756	810	820	838	814	769	761	773	739	726	736	761	775	787	781	
24	791	789	796	808	792	798	804	802	792	731	763	795	757	750	773	789	796	803	775	767	773	775	779	806	784	
25 D	807	801	848	940	908	772	534	609	548	492	503	696	784	614	750	756	753	752	753	767	774	780	760	768	728	
26	788	777	770	788	828	883	845	782	635	565	438	518	720	724	710	720	798	795	796	763	769	791	831	808	743	
27 Q	837	816	790	777	772	778	789	793	798	800	801	798	773	789	812	806	797	791	781	775	782	785	792	793	793	
28	780	780	777	777	783	789	788	794	791	708	779	781	820	837	845	837	819	784	775	783	779	775	777	792	790	
29 Q	806	800	793	781	791	792	791	802	796	792	798	803	812	809	803	791	773	756	761	759	757	758	764	784	786	
30																			771	784	797	800	805	832		
31																										
Mean	842	834	834	835	801	794	779	764	729	709	719	733	757	766	781	780	776	761	758	760	760	774	793	822	778	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 22 Meanook

D = 24° E + ...'

June 1947

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	49.7	57.2	60.3	52.9	36.1	49.8	51.7	53.1	56.2	60.4	64.5	65.4	64.0	72.4	76.3	75.8	73.2	68.6	58.6	54.7	53.6	53.2	53.3	54.4	59.0	
2 Q	56.6	56.8	56.5	56.6	57.2	57.8	57.7	58.0	58.3	58.6	60.4	64.7	66.7	70.5	74.3	70.4	68.9	63.6	58.1	55.4	53.6	51.7	52.2	56.3	60.0	
3	56.5	61.2	61.2	56.6	56.1	61.7	57.8	55.7	56.1	56.3	57.3	61.1	65.8	69.1	73.8	72.5	73.6	68.8	63.7	59.4	56.2	53.3	52.8	54.4	60.9	
4	56.6	59.4	60.3	60.3	59.3	59.1	58.9	59.9	56.4	57.6	60.1	60.8	65.0	68.8	70.3	68.6	73.8	67.3	58.5	56.7	54.0	51.2	51.0	53.6	60.3	
5 D	56.9	59.4	61.1	60.5	59.1	61.0	60.1	60.8	85.7	71.2	64.6	58.6	66.9	74.9	75.4	78.8	73.2	79.6	68.8	56.0	57.2	54.1	53.5	62.3	65.0	
6	46.6	54.3	54.7	56.0	57.8	59.1	58.9	58.6	58.0	57.7	58.2	60.7	64.0	65.2	70.3	72.7	72.6	68.8	65.9	58.4	51.6	46.7	47.0	47.0	58.8	
7	50.4	52.6	53.3	55.8	56.4	51.7	51.5	50.7	49.4	53.9	56.4	58.9	66.5	71.1	69.5	72.1	67.1	62.9	57.9	60.6	62.2	57.1	53.9	57.2	58.3	
8	43.6	45.7	46.7	43.1	52.2	53.0	60.0	57.1	57.5	52.0	56.3	58.4	66.2	74.8	80.1	81.4	75.5	76.5	67.3	61.4	55.3	54.0	53.6	54.2	59.4	
9	54.4	55.9	55.3	57.8	62.6	58.4	58.0	63.8	62.7	58.9	47.8	66.2	68.7	78.1	76.8	78.6	78.0	74.9	65.6	60.2	54.5	54.0	53.1	50.8	62.3	
10	52.4	51.8	51.9	52.7	54.1	56.6	55.4	52.3	57.4	56.1	59.8	62.8	65.7	68.2	72.5	74.6	73.8	71.6	68.7	64.9	59.8	50.3	48.8	46.6	59.5	
11	49.5	54.3	57.1	58.0	56.2	56.9	54.1	55.6	58.0	55.4	55.9	59.3	60.9	65.7	72.5	74.2	71.3	70.3	67.5	59.0	56.0	53.4	53.0	51.3	59.4	
12 Q	54.3	56.7	58.2	58.4	56.5	57.8	62.3	57.1	56.9	58.7	59.8	62.8	64.8	64.3	66.3	68.2	65.2	65.7	63.4	55.3	46.7	47.6	47.6	49.9	58.5	
13	51.2	49.2	53.1	56.2	58.2	55.5	57.9	54.2	52.9	54.3	54.8	56.0	61.0	69.2	74.1	77.2	70.0	65.4	58.8	49.1	51.9	54.3	49.4	46.8	57.5	
14 D	44.8	34.5	37.5	40.0	57.1	42.8	44.1	44.1	50.5	58.3	49.9	61.2	69.5	70.6	77.9	71.7	68.5	69.4	59.3	58.8	52.5	52.3	52.3	50.2	54.9	
15	53.6	55.1	51.8	50.5	56.6	54.3	53.7	52.0	53.7	53.1	55.7	62.6	67.4	74.0	78.5	77.1	77.1	71.7	59.0	57.4	54.8	52.9	52.5	54.3	59.6	
16 Q	54.2	56.7	56.5	56.1	56.8	57.2	57.3	57.8	59.6	60.8	62.2	64.0	65.8	67.1	69.2	71.7	70.5	68.7	63.3	53.2	50.3	49.5	52.3	55.2	59.8	
17 D	56.6	57.6	58.2	60.6	66.4	45.7	60.7	55.4	73.4	61.3	57.6	62.7	70.5	85.0	98.5	99.7	77.2	86.8	56.9	70.0	52.4	51.2	50.0	51.0	65.2	
18	51.9	54.3	55.8	57.9	60.2	56.0	63.7	60.0	57.2	64.7	68.7	66.1	67.7	74.3	78.0	78.1	77.1	71.4	70.7	63.7	52.1	53.1	50.8	52.0	62.7	
19	54.8	56.1	58.9	57.1	60.7	62.7	58.5	56.0	55.0	55.3	58.2	61.8	68.4	74.3	78.0	79.8	76.1	65.0	63.7	55.4	49.4	46.1	49.2	50.8	60.5	
20	55.9	57.0	59.0	63.1	59.3	60.2	55.2	54.0	57.5	58.8	57.3	58.1	60.1	66.4	72.6	71.3	72.8	70.8	61.0	54.6	52.3	53.1	53.9	55.8	60.0	
21	56.7	59.8	62.7	61.6	59.0	57.9	59.0	57.4	56.8	57.3	56.6	56.9	62.0	71.3	74.0	73.4	70.7	67.5	59.6	54.4	55.2	52.1	52.3	53.1	60.3	
22	53.1	52.8	59.0	59.4	59.4	56.3	56.1	56.4	55.0	58.9	55.8	58.6	66.3	69.1	70.4	68.9	68.0	66.2	56.1	53.7	56.1	53.3	49.6	50.8	58.7	
23	55.0	60.5	61.7	59.8	60.4	61.6	68.9	61.0	58.5	62.7	56.4	57.7	65.3	69.5	70.5	79.2	72.2	71.4	64.9	57.9	55.7	54.0	55.1	55.3	62.3	
24	59.0	61.8	63.6	62.7	61.0	60.8	64.9	61.2	55.9	52.9	56.3	54.7	57.2	62.5	71.6	77.4	76.5	72.3	64.3	63.9	60.1	56.9	50.5	53.8	61.7	
25 D	57.9	61.8	60.7	56.8	57.7	69.5	58.9	59.7	60.0	64.9	58.8	65.4	62.1	71.8	74.8	79.7	76.6	70.5	59.8	50.3	48.8	50.4	54.2	53.1	61.8	
26	54.0	55.3	57.1	58.2	61.3	61.5	60.9	59.9	50.4	59.5	69.8	75.2	70.9	74.6	77.6	71.3	67.3	63.7	60.9	58.9	56.9	57.7	58.9	57.7	62.5	
27 Q	59.8	58.9	61.0	60.6	58.8	58.7	58.7	63.1	56.8	54.1	53.9	56.0	60.0	67.7	70.3	69.2	66.5	61.9	59.1	54.7	49.8	51.6	55.0	56.3	59.3	
28	56.0	57.1	57.1	57.1	57.6	58.5	58.5	56.1	56.8	68.4	59.4	61.7	69.2	72.2	69.8	69.3	67.2	62.4	61.5	55.1	53.8	52.2	52.4	53.8	60.1	
29 Q	57.0	58.8	59.3	58.7	58.1	65.4	63.4	60.9	57.7	56.8	57.7	62.1	64.3	66.0	69.9	70.4	70.0	64.9	58.8	56.8	55.7	54.6	54.8	55.5	60.7	
30																			59.4	56.0	54.1	53.9	54.6	57.0		
31																										
Mean	53.8	55.6	56.9	56.7	57.7	57.5	58.2	57.0	57.9	58.6	58.3	61.4	65.3	70.6	74.3	74.9	72.1	69.3	62.1	57.6	54.1	52.5	52.2	53.2	60.3	

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

Table 23 Meanook

$Z = 58,500 \gamma +$

June 1947

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 D	641	616	567	146	243	495	549	562	597	593	525	477	502	511	507	516	534	544	553	549	537	527	535	532	514	
2 Q	538	537	530	530	529	530	530	529	530	530	529	539	539	535	534	526	526	521	519	512	530	549	564	585	534	
3	602	599	596	583	570	572	567	542	532	536	537	549	555	543	537	531	527	523	519	516	526	532	537	542	549	
4	545	539	538	531	532	533	532	532	533	524	535	545	544	537	531	520	517	520	535	534	536	536	539	540	534	
5 D	541	545	543	537	537	540	536	469	390	491	537	548	525	546	523	513	505	500	493	487	503	539	596	662	525	
6	539	545	548	540	541	538	532	534	539	540	541	547	548	545	550	548	548	539	537	541	544	551	559	578	545	
7	589	583	595	600	575	562	567	543	489	519	468	485	484	458	508	527	517	530	545	560	590	651	703	670	555	
8	687	645	628	426	491	524	504	538	544	512	519	521	497	505	519	518	534	525	543	568	578	579	580	588	545	
9	589	593	615	599	516	462	548	487	495	524	419	489	421	411	475	553	557	545	547	559	554	581	596	622	532	
10	609	606	618	624	602	603	584	595	570	550	491	465	528	532	541	561	562	556	557	560	573	584	591	588	569	
11	588	581	573	564	573	589	581	516	502	542	541	535	535	541	556	566	573	563	567	558	555	555	562	567	558	
12 Q	566	563	564	561	557	562	556	557	554	552	536	535	531	508	510	523	532	536	541	552	552	569	588	618	551	
13	641	613	612	604	573	566	562	550	545	544	542	539	540	560	547	534	535	539	547	539	544	571	612	609	565	
14 D	541	568	546	344	560	522	452	556	592	715	668	586	579	549	567	558	556	558	567	574	577	568	564	592	561	
15	594	593	615	670	645	606	608	602	572	531	531	497	524	546	569	544	535	548	553	556	564	567	563	560	571	
16 Q	556	553	552	552	553	554	554	555	555	556	559	559	564	557	554	555	555	553	555	555	557	566	563	563	556	
17 D	559	570	578	623	493	534	538	601	532	587	584	633	657	608	489	446	486	513	554	587	624	595	571	552	563	
18	558	563	570	575	597	615	568	534	549	558	529	545	556	554	556	556	559	562	561	576	566	579	599	625	567	
19	633	654	644	659	523	615	614	601	614	503	526	556	587	569	550	555	530	528	538	558	564	560	587	612	578	
20	625	615	630	619	606	605	596	557	536	536	544	559	558	545	565	574	569	565	563	569	576	581	589	593	578	
21	581	589	590	580	571	571	579	570	564	560	566	560	532	543	553	556	556	549	558	560	558	572	601	601	568	
22	613	636	624	622	604	572	569	561	560	545	533	539	551	564	560	565	566	549	542	540	548	573	568	567	570	
23	622	623	618	597	595	590	552	576	509	442	513	563	568	574	555	509	501	542	540	547	552	561	569	574	558	
24	577	574	575	585	565	564	567	576	553	514	499	536	512	507	510	499	506	512	527	526	542	570	590	591	544	
25 D	595	587	622	659	685	544	534	569	616	507	607	541	562	504	556	558	564	568	567	579	581	593	618	610	580	
26	568	564	562	567	606	622	555	540	497	485	577	428	463	463	415	409	520	568	571	564	572	587	645	654	542	
27 Q	685	639	622	598	579	571	566	552	564	568	566	565	542	546	544	548	552	551	548	546	548	546	555	570	570	
28	576	570	565	562	567	569	583	570	547	528	513	519	551	573	579	569	565	557	554	556	560	560	566	573	560	
29 Q	583	584	579	568	568	570	543	566	565	564	568	573	568	566	558	561	558	560	560	563	571	577	561	573	567	
30																			557	568	581	589	594	606		
31																										
Mean	591	588	587	556	557	562	556	553	543	540	538	536	539	534	535	534	543	542	547	551	558	568	582	590	555	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24 Meanook

June 1947

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° East +		Minimum 24° East +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 D	02 58	1372	04 33	411	961	02 47	79.2	04 30	<u>08.1</u>	71.1	00 03	657	04 27	<u>-178</u>	<u>835</u>
2 Q	23 53	822	21 07	721	101	14 42	76.4	21 53	49.4	27.0	23 40	588	19 47	509	79
3	04 02	947	20 18	741	206	16 20	76.1	04 25	44.0	32.1	01 03	632	19 05	511	121
4	14 45	827	16 48	734	93	16 52	76.9	22 04	49.6	27.3	11 46	552	16 09	498	54
5 D	23 54	1210	08 18	<u>258</u>	952	08 45	<u>120.3</u>	22 13	44.0	76.3	23 50	719	08 31	212	507
6	00 00	1189	05 17	725	464	15 56	74.9	00 10	34.8	40.1	23 43	581	00 27	482	99
7	22 46	1065	08 21	639	426	13 43	77.2	08 18	37.3	39.9	22 05	733	08 18	411	322
8	03 25	1176	09 11	505	671	15 12	87.0	03 47	26.7	60.3	00 27	726	03 50	253	473
9	03 23	1025	10 32	427	598	05 07	87.3	10 52	34.0	53.3	23 46	638	04 56	279	359
10	04 25	<u>952</u>	10 53	671	281	15 00	79.4	04 51	44.3	35.1	03 24	681	11 00	422	259
11	00 26	832	08 15	695	137	15 26	78.3	00 15	46.8	31.5	06 03	604	07 52	421	183
12 Q	23 53	847	19 54	720	127	15 48	69.5	20 54	44.4	25.1	23 56	640	13 53	491	149
13	23 33	1151	11 57	722	429	15 13	79.3	24 00	38.5	40.8	23 07	653	12 02	496	157
14 D	00 55	<u>1534</u>	09 30	434	<u>1100</u>	09 14	84.5	01 15	10.6	73.9	09 15	<u>763</u>	03 00	197	566
15	03 20	973	12 17	583	390	16 23	79.4	10 37	42.2	37.2	03 12	684	11 02	408	276
16 Q	12 33	835	19 25	726	109	15 44	74.8	21 16	48.2	26.6	23 02	568	18 45	548	<u>20</u>
17 D	04 03	1027	18 54	435	592	08 45	116.9	05 27	34.7	<u>82.2</u>	12 37	692	08 32	267	425
18	05 53	950	11 00	335	615	11 15	88.8	20 46	48.7	40.1	10 47	689	10 15	386	303
19	04 07	1042	10 04	656	386	15 26	77.2	04 11	40.0	37.2	03 39	683	09 47	461	222
20	14 57	848	07 51	675	173	14 44	78.4	07 07	49.2	29.2	03 12	655	10 50	495	160
21	22 40	894	17 23	727	167	15 07	77.5	21 23	49.2	28.3	22 44	625	12 16	514	111
22	01 45	908	17 45	731	177	14 30	74.8	22 07	46.3	28.5	01 45	657	10 31	505	152
23	00 55	913	08 53	512	401	06 10	84.0	09 57	50.2	33.8	00 51	660	09 10	272	388
24	03 19	868	09 55	650	218	15 54	81.3	22 42	48.0	33.3	03 30	607	10 01	413	194
25 D	03 43	1017	06 28	320	697	09 47	91.5	10 43	27.6	63.9	04 07	739	09 03	337	402
26	05 42	915	10 37	304	611	10 45	95.6	08 32	34.0	61.6	10 20	674	08 40	366	308
27 Q	00 53	914	12 38	750	164	07 10	74.1	20 26	47.3	26.8	00 40	716	12 37	390	326
28	14 28	854	09 10	555	299	09 29	79.8	21 17	48.8	31.0	06 29	591	09 10	459	132
29 Q	12 37	819	17 25	746	<u>73</u>	05 55	76.6	19 30	53.9	<u>22.7</u>	01 40	594	06 10	505	89
30															
31															
Mean		991		590	401		82.6		40.7	41.9		655		390	265
No. days		29		29	29		29		29	29		29		29	29

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

Table 25 Meanook

H = 12,000  $\gamma$  +

July 1947

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	826	830	818	806	835	844	814	798	798	796	794	800	792	793	812	819	801	765	761	772	777	782	791	831	802
2	824	809	820	835	855	780	792	751	753	802	791	753	716	776	828	790	768	760	756	767	774	816	771	770	786
3 Q	780	785	785	787	788	795	805	793	736	745	790	800	807	806	814	798	806	791	784	769	767	761	777	775	785
4 Q	781	792	784	785	789	790	792	792	784	781	778	785	797	803	806	799	782	762	746	736	737	745	761	778	779
5 Q	799	803	795	786	785	787	790	790	791	791	795	803	808	816	817	814	799	777	748	746	750	755	761	779	787
6	807	830	797	784	778	792	798	799	784	786	792	789	797	813	799	806	816	806	768	742	735	742	784	807	790
7	792	800	799	800	795	793	786	785	786	785	784	791	800	800	800	796	791	779	769	752	742	753	780	761	784
8	790	774	780	806	816	833	809	798	786	787	785	782	774	752	764	755	771	776	742	743	754	750	753	790	778
9	776	801	775	779	799	808	813	809	786	787	790	797	805	802	802	804	784	767	753	744	760	735	770	827	786
10	846	852	894	860	798	775	780	782	785	780	744	752	797	820	816	788	768	774	764	760	751	737	751	794	790
11	835	774	781	798	797	798	794	785	785	777	777	756	760	783	786	754	750	734	750	749	754	815	810	797	779
12	788	824	835	903	801	769	769	769	772	767	744	745	769	771	776	777	766	745	745	751	751	756	760	790	777
13	816	827	784	771	794	787	784	778	775	774	744	724	783	769	765	748	720	732	730	751	752	746	754	770	766
14 Q	807	788	781	778	774	774	778	778	781	782	786	792	793	799	797	784	747	739	734	750	764	747	772	802	776
15	835	832	835	832	813	805	780	772	774	773	766	781	798	804	797	783	739	734	717	713	719	740	748	776	778
16	822	825	805	798	788	775	774	776	780	783	786	787	791	796	807	797	781	762	741	721	719	737	763	782	779
17 D	799	797	790	787	790	793	796	798	800	797	797	807	807	818	814	797	791	770	735	677	762	825	980	1327	819
18 D	1192	1024	987	1016	907	806	682	763	689	627	537	549	516	646	257	276	495	596	674	705	771	803	812	875	717
19 D	985	1102	1080	888	815	794	635	744	674	549	309	699	715	551	722	779	752	738	727	734	770	746	763	783	752
20 D	813	838	846	938	840	784	782	630	668	694	535	351	392	388	681	612	688	793	781	762	762	782	810	778	706
21	757	782	797	819	798	799	795	758	753	672	616	692	725	805	812	805	798	774	742	756	743	746	753	764	761
22	755	758	770	782	784	787	785	787	738	716	783	793	789	771	762	780	777	766	748	732	755	723	765	833	768
23 D	794	810	798	826	857	848	670	702	726	436	438	732	810	752	798	785	808	768	783	766	797	779	736	788	750
24	779	787	773	826	840	789	796	779	781	771	755	755	737	702	784	794	778	782	763	745	745	741	766	798	774
25	763	847	840	822	773	789	789	779	758	748	783	768	749	709	699	719	762	745	735	706	731	744	769	811	764
26	765	787	849	847	845	804	724	547	662	740	781	667	549	705	752	793	789	755	734	748	742	736	771	766	744
27	789	796	766	840														778	758	754	754	765	761	786	
28	780	770	775	768	762	767	768	761	737	690	753	758	765	764	765	772	767	758	733	726	744	751	747	786	757
29	797	797	810	800	792	766	765	778	745	560	482	637	747	737	775	772	782	778	762	746	741	749	764	774	744
30 Q	775	771	767	767	782	783	771	747	767	777	777	781	797	810	812	794	785	772	764	751	746	763	770	770	775
31	791	808	790	783	784	786	785	784	780	779	775	778	750	785	799	777	750	738	724	716	733	724	771	776	769
Mean	816	821	818	819	806	793	773	764	758	735	719	740	748	755	767	762	764	758	747	741	752	758	776	809	771

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 26 Meanook

D = 24° E + ...'

July 1947

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	60.0	60.0	61.4	54.7	56.0	58.1	57.7	55.0	53.8	53.3	57.1	60.0	60.8	69.7	74.2	75.1	72.4	72.3	55.9	50.3	50.9	55.0	53.0	56.8	59.9
2	59.8	59.5	57.5	55.1	61.2	57.7	57.9	60.4	63.6	58.0	55.9	56.2	62.7	73.3	73.6	73.4	65.3	60.7	59.1	55.6	54.4	55.4	53.8	53.8	60.2
3 Q	55.9	56.0	56.8	56.1	57.7	55.4	59.5	67.6	61.3	58.8	61.9	61.7	63.4	64.6	68.4	70.3	71.8	71.1	65.8	56.6	50.3	48.1	50.2	50.3	60.0
4 Q	53.1	56.7	58.8	58.1	58.1	58.8	57.7	57.0	57.3	57.3	58.9	60.6	63.7	65.4	65.7	66.9	67.8	67.5	62.9	55.9	49.0	46.2	46.7	48.4	58.3
5 Q	51.2	55.2	58.4	58.8	58.7	57.0	56.8	57.2	58.0	58.6	58.9	60.2	62.9	66.4	69.9	74.4	75.4	73.8	69.9	60.4	53.3	49.1	48.4	49.3	60.1
6	50.9	53.9	56.9	57.7	57.2	57.6	56.7	56.8	61.7	59.2	58.3	59.6	63.2	66.5	73.3	72.5	76.3	69.9	66.5	58.6	51.1	45.5	44.1	44.7	59.1
7	50.4	51.3	53.6	53.5	53.3	53.8	55.2	55.9	55.6	55.2	56.1	58.9	62.4	66.5	72.0	70.0	70.6	75.2	73.1	64.0	53.7	51.3	50.0	49.8	58.8
8	50.1	53.4	54.9	53.3	53.9	51.0	56.0	54.7	57.3	58.1	58.0	60.8	62.5	63.9	72.2	75.7	73.5	76.0	68.0	52.9	50.4	48.0	47.7	47.4	58.3
9	51.5	51.8	54.9	54.8	53.3	53.0	51.2	54.8	55.1	56.6	57.8	61.0	64.4	69.6	71.4	71.0	68.4	67.6	66.2	57.3	53.8	47.3	43.6	44.2	57.5
10	46.7	49.1	50.0	52.7	54.3	55.7	54.8	55.1	55.6	55.6	54.4	55.2	63.6	65.5	68.3	71.9	72.1	64.9	61.9	56.0	52.0	50.3	47.2	47.3	56.7
11	50.1	52.3	52.2	52.8	54.2	58.2	55.5	54.5	55.1	55.3	56.3	55.9	57.2	64.1	67.7	70.4	71.7	61.1	58.1	54.7	50.5	51.2	50.3	50.4	56.7
12	48.0	51.5	51.7	52.4	55.7	53.1	53.5	53.8	54.1	53.9	54.3	58.9	62.2	64.9	66.7	71.0	73.3	69.6	63.3	51.0	53.8	53.0	53.1	52.1	57.3
13	50.9	52.0	55.9	55.2	57.5	59.1	56.8	54.7	55.8	59.9	63.8	62.3	69.4	69.6	76.3	77.2	72.0	64.6	54.5	51.0	51.3	49.8	49.7	51.5	59.2
14 Q	53.1	57.0	57.1	56.7	56.9	57.9	58.2	57.2	57.1	58.2	58.9	60.2	62.7	67.7	69.8	73.4	74.0	68.6	61.1	56.7	54.5	53.2	52.1	51.6	59.7
15	55.4	57.0	57.1	54.9	56.2	62.3	56.1	56.1	55.9	55.7	57.8	64.3	67.5	69.5	72.0	74.1	75.7	66.6	62.9	47.9	48.5	49.0	50.4	51.6	59.4
16	51.5	54.3	56.7	57.0	55.7	55.5	55.5	56.1	56.9	57.8	58.0	60.0	64.7	70.1	73.4	73.7	73.4	68.9	61.9	55.4	50.2	49.0	49.9	50.9	59.0
17 D	53.1	55.8	56.9	56.4	56.2	56.2	56.0	56.1	56.9	56.8	57.1	60.8	65.8	71.4	72.4	75.3	78.1	75.7	72.4	73.4	73.4	50.2	50.2	62.7	62.5
18 D	49.1	44.1	50.2	46.2	50.0	47.6	39.1	41.9	45.1	57.6	62.1	70.6	76.2	68.6	89.8	105.9	92.8	78.3	71.7	59.0	50.3	52.8	58.7	59.9	61.2
19 D	62.0	64.0	54.8	50.1	60.3	58.1	65.0	60.3	58.4	59.3	64.3	58.0	60.8	76.6	77.9	76.7	74.2	67.2	57.0	54.1	57.1	51.8	52.9	55.7	61.5
20 D	60.1	62.0	61.8	57.0	63.1	57.4	62.7	71.2	65.1	58.0	62.1	75.9	73.2	75.6	71.4	79.6	70.5	67.9	58.4	53.2	53.4	53.8	56.5	58.3	63.7
21	59.9	59.5	60.0	62.8	59.9	58.3	62.5	58.3	56.5	53.2	49.4	48.3	61.3	70.1	74.4	77.5	75.9	70.8	61.6	53.9	49.3	47.7	48.5	48.9	59.5
22	53.9	56.1	57.2	61.1	61.9	61.4	58.8	57.3	65.9	74.4	57.5	58.6	62.7	69.1	75.1	78.5	79.5	75.4	67.2	61.8	60.3	47.9	48.2	52.4	62.6
23 D	55.9	58.3	63.3	63.4	56.8	57.1	49.2	71.8	64.2	64.3	45.3	61.9	62.7	65.7	73.6	72.6	73.7	70.0	61.7	57.0	57.5	55.2	48.7	53.9	61.0
24	53.9	55.2	55.8	57.1	72.6	56.3	60.1	66.7	61.0	59.6	56.3	58.0	60.0	65.9	69.1	74.4	73.6	68.7	64.8	61.0	59.6	52.6	53.8	56.0	61.3
25	59.0	56.4	61.4	56.3	58.5	58.2	60.0	65.1	61.8	62.2	56.8	56.2	62.2	66.8	74.3	58.9	74.5	72.0	59.6	52.3	49.6	46.5	50.6	54.4	60.6
26	56.9	58.7	58.0	77.2	58.3	59.6	59.1	58.9	60.0	59.8	55.8	51.3	68.2	76.1	73.3	75.2	69.4	62.9	58.1	55.7	54.4	53.1	54.7	57.6	61.3
27	60.1	60.8	61.1	61.1														62.5	55.3	50.6	50.5	51.4	53.5	54.6	
28	58.9	58.6	59.4	58.9	58.9	57.5	61.6	61.3	61.9	52.1	56.0	59.9	64.0	66.3	73.7	76.7	75.5	72.3	62.1	55.0	51.8	54.0	54.0	55.5	61.1
29	59.9	60.6	60.6	64.4	58.7	59.1	59.9	56.5	55.6	61.3	54.5	69.6	67.8	67.4	74.8	75.9	70.6	62.3	58.1	54.2	51.6	50.6	51.2	54.0	60.8
30 Q	57.0	58.5	59.1	58.6	58.6	58.2	58.3	59.3	59.0	59.2	59.3	61.8	65.2	68.8	70.5	72.4	73.1	67.9	63.2	66.0	51.6	51.5	51.2	52.7	60.9
31	55.7	56.5	57.5	56.9	55.2	53.8	53.1	53.4	56.3	56.5	58.7	63.2	68.8	80.2	77.0	74.6	71.2	70.4	59.0	49.8	47.2	44.6	48.0	46.8	58.9
Mean	54.5	55.8	57.0	57.2	57.6	56.8	56.8	58.2	58.1	58.2	57.4	60.3	64.4	68.9	72.7	75.2	73.5	69.3	62.9	56.4	53.2	50.5	50.6	52.3	59.9

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

Table 27 Meanook

$z = 58,500 \gamma +$

July 1947

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	623	622	621	601	608	613	580	574	578	571	569	576	565	532	546	556	566	562	563	559	565	580	597	619	581
2	652	638	622	597	609	565	566	471	501	559	558	534	467	510	549	549	546	534	536	555	564	590	583	575	560
3 Q	566	564	561	555	564	564	583	557	505	471	502	551	564	563	556	548	551	550	548	551	553	553	564	567	550
4 Q	565	567	563	558	555	559	556	552	550	549	539	542	552	556	556	551	548	541	540	543	546	553	560	565	553
5 Q	562	563	564	562	555	553	551	550	551	552	553	558	557	555	551	546	540	535	522	526	528	535	544	552	549
6	569	584	571	552	539	542	541	542	537	548	551	549	552	554	537	527	527	519	516	518	522	532	548	570	544
7	585	584	576	575	565	545	553	545	543	543	546	548	555	557	556	553	538	531	532	540	538	544	556	563	553
8	574	560	545	551	566	582	583	551	550	540	540	539	535	510	517	513	512	511	510	512	524	542	544	555	540
9	557	562	549	547	542	550	556	550	537	535	539	542	550	543	539	547	541	536	521	521	537	543	555	570	545
10	603	611	633	605	586	547	538	522	530	523	502	474	522	545	545	538	513	518	517	517	539	530	537	576	545
11	608	570	545	544	550	547	544	531	522	520	520	500	492	520	531	520	517	513	507	517	527	551	602	597	537
12	574	583	576	588	554	538	523	515	513	508	464	475	508	515	529	537	538	529	528	529	530	538	539	551	533
13	566	568	568	536	535	528	527	522	512	490	475	455	496	486	470	475	475	486	501	506	522	534	531	528	512
14 Q	532	530	524	518	512	510	516	512	516	514	519	523	524	530	529	515	503	508	506	514	524	527	536	543	520
15	581	585	583	571	552	527	527	518	511	507	494	497	518	518	507	502	493	494	495	498	494	504	511	517	521
16	545	551	533	531	525	516	505	503	502	505	505	504	507	504	506	507	505	505	503	498	497	498	504	510	511
17 D	513	515	514	509	503	502	502	500	499	489	489	494	486	481	472	466	478	474	497	489	750	691	824	968	546
18 D	744	508	600	483	553	445	468	528	677	616	592	712	586	521	683	341	312	483	602	627	563	562	600	622	559
19 D	672	597	518	561	574	522	399	498	465	516	534	522	496	472	500	520	518	518	519	520	543	529	525	527	524
20 D	547	574	589	577	544	534	483	390	426	432	375	323	493	545	454	407	459	509	527	517	534	547	569	547	496
21	523	530	538	556	528	527	525	483	487	468	411	420	436	503	526	514	506	497	487	494	479	471	487	497	496
22	503	505	512	524	514	499	519	503	437	340	460	504	503	496	473	461	467	475	476	479	504	516	549	580	492
23 D	566	552	553	550	553	538	577	501	422	450	473	462	501	475	488	480	492	490	507	504	523	553	541	550	513
24	542	539	521	542	510	508	523	488	500	496	470	474	465	434	474	497	488	485	472	480	483	482	495	520	495
25	519	551	571	576	520	518	518	485	414	412	459	474	464	451	401	416	469	477	484	493	509	513	523	550	490
26	541	542	581	577	543	543	466	343	412	433	478	415	328	379	464	489	509	498	485	509	516	509	526	522	484
27	528	530	509	539														487	481	496	493	498	500	520	
28	520	509	507	498	495	489	480	474	444	382	451	473	487	485	479	487	496	500	501	504	505	510	518	527	488
29	540	537	541	531	519	453	480	497	461	402	391	372	461	460	448	434	468	488	496	508	512	512	507	499	480
30 Q	499	497	493	497	498	505	501	438	456	480	497	506	505	501	497	489	496	496	497	499	493	503	511	510	494
31	524	522	520	513	512	511	510	502	497	496	488	488	467	468	478	473	472	468	468	472	478	486	509	523	494
Mean	567	557	556	550	543	529	523	505	502	495	498	500	505	509	512	499	501	508	512	517	530	531	550	563	523



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28 Meanook

July 1947

Day	Horizontal Intensity						Declination						Vertical Intensity						
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° East +			Minimum 24° East +			Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range
	h. m.	$\gamma$		h. m.	$\gamma$		h. m.	'		h. m.	'		h. m.	$\gamma$		h. m.	$\gamma$		
1	01 41	872		17 14	734	138	17 14	83.5		18 15	48.3	35.2	01 44	648		13 20	524	124	
2	14 14	932		08 00	635	297	13 46	77.6		07 48	47.4	30.2	00 42	664		07 50	387	277	
3 Q	07 02	847		08 38	695	152	15 07	75.0		21 20	45.3	29.7	07 02	608		09 14	451	157	
4 Q	14 12	811		19 26	730	<u>81</u>	17 30	68.4		21 50	45.4	<u>23.0</u>	01 22	574		11 45	532	<u>42</u>	
5 Q	13 52	823		19 07	736	87	15 22	76.6		21 58	46.6	30.0	00 53	573		18 42	518	55	
6	01 40	847		20 46	721	126	16 35	79.4		22 30	42.5	36.9	01 40	591		18 15	510	81	
7	01 06	824		19 58	729	95	17 05	80.0		20 02	46.4	33.6	00 07	588		05 38	518	70	
8	05 32	849		19 40	732	117	17 47	82.2		23 40	45.4	36.8	06 05	605		13 43	499	106	
9	01 12	848		21 48	707	141	15 03	75.5		22 43	41.4	34.1	01 14	584		18 24	515	69	
10	02 46	946		10 52	702	244	16 15	75.4		00 10	43.3	32.1	02 53	655		11 20	437	218	
11	00 33	861		17 30	711	150	16 07	75.7		00 24	47.2	28.5	23 02	630		12 06	466	164	
12	03 32	1032		10 49	712	320	16 39	74.7		03 15	41.3	33.4	03 25	648		10 46	419	229	
13	01 30	860		11 07	664	196	14 30	80.0		22 00	47.9	32.1	02 17	588		11 15	428	160	
14 Q	00 40	820		17 46	718	102	15 37	77.4		23 17	49.0	28.4	23 58	553		18 54	497	56	
15	05 07	885		19 55	705	180	16 53	77.5		20 07	48.0	29.5	02 24	594		11 07	475	119	
16	01 40	836		20 11	712	124	16 03	75.1		21 12	47.5	27.6	01 32	564		13 09	496	68	
17 D	23 46	<u>1495</u>		18 12	399	1096	20 15	118.8		20 40	<u>26.5</u>	92.3	23 42	<u>1066</u>		18 05	416	650	
18 D	00 00	1371		14 07	<u>-129</u>	<u>1500</u>	15 08	<u>121.8</u>		08 20	27.1	<u>94.7</u>	14 50	963		15 07	<u>192</u>	<u>771</u>	
19 D	02 41	1328		10 36	-70	1398	06 20	96.3		10 00	26.6	69.7	00 45	701		06 31	281	420	
20 D	03 48	1093		13 12	159	934	11 46	116.8		03 58	34.2	82.6	13 10	806		11 08	243	563	
21	03 35	854		10 07	540	314	16 07	80.0		11 08	43.0	37.0	03 51	584		10 16	355	229	
22	23 30	850		09 23	628	222	09 22	84.9		21 26	42.8	42.1	23 27	598		09 28	240	358	
23 D	05 49	931		10 04	167	764	09 47	84.1		06 35	28.5	55.6	06 48	704		10 00	320	384	
24	04 07	941		13 43	661	280	04 23	83.5		04 58	44.5	39.0	04 12	597		13 47	391	206	
25	01 40	890		14 00	555	335	15 46	87.5		21 10	42.4	45.1	03 25	604		09 06	358	246	
26	03 08	880		07 24	420	460	03 40	87.1		06 33	34.9	52.2	03 16	617		07 47	259	358	
27																			
28	00 08	832		09 12	614	218	15 52	78.9		09 17	43.7	35.2	00 10	539		09 10	315	224	
29	00 05	832		09 47	365	467	11 06	82.0		10 12	36.3	45.7	10 00	562		10 40	281	281	
30 Q	13 43	818		08 53	699	119	16 32	75.8		22 16	49.7	26.1	23 58	526		07 49	367	159	
31	01 42	819		21 05	706	113	13 45	81.7		21 18	42.7	39.0	23 58	544		12 53	454	90	
Mean		928			569	359		83.8			41.9	41.9		636			405	231	
No. days		30			30	30		30			30	30		30			30	30	

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

Table 29 Meanook

H = 12,000  $\gamma$  +

August 1947

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	871	946	861	801	751	773	861	869	797	746	712	760	780	785	786	778	754	735	741	745	748	738	749	763	785	
2	767	769	767	785	786	771	775	782	774	757	739	792	782	783	782	769	745	711	716	722	762	790	814	798	768	
3	778	790	772	765	775	774	777	772	748	751	781	783	780	765	749	742	751	736	730	736	738	745	764	796	762	
4	792	788	783	775	772	788	810	786	767	731	691	638	755	787	797	781	762	742	731	720	726	752	755	780	759	
5 Q	756	785	789	786	785	780	781	779	777	780	785	790	791	799	801	784	763	750	737	742	746	760	766	766	774	
6	780	771	766	775	803	820	817	815	778	786	739	699	773	782	794	774	761	723	711	706	715	720	763	788	765	
7	782	766	795	786	785	780	771	771	772	773	774	778	785	791	782	771	753	725	718	717	732	745	752	795	767	
8 Q	821	806	760	757	764	784	780	776	774	772	781	774	758	732	728	745	745	731	719	717	722	734	749	762	758	
9 Q	770	774	776	778	778	800	780	782	780	778	775	772	780	783	780	770	754	747	741	737	729	756	718	750	766	
10 Q	768	774	769	782	788	785	780	783	785	780	796	772	754	764	771	761	750	738	729	736	746	761	754	767	766	
11	769	766	757	770	773	789	790	786	795	781	784	765	777	757	733	706	744	739	740	730	730	758	757	775	761	
12	797	875	1088	801	892	923	815	535	517	530	741	733	739	768	739	735	750	758	755	751	767	767	752	824	765	
13	710	727	744	759	776	790	805	780	643	577	738	802	774	752	729	697	708	751	716	719	703	731	865	844	743	
14	859	950	853	796	800	784	781	769	759	756	765	773	781	743	712	707	716	717	736	727	730	741	755	763	770	
15 D	770	762	766	778	776	777	774	771	739	760	460	530	643	840	875	844	784	797	776	766	823	1003	1313	1247	807	
16 D	1088	961	835	827	759	777	725	711	691	565	351	383	138	216	052	251	598	724	709	743	761	726	809	804	634	
17	926	1030	1035	937	801	587	486	460	225	500	680	458	435	435	249	305	567	634	708	747	768	808	870	810	644	
18 D	790	1015	974	898	838	559	688	693	498	292	663	459	156	490	411	477	579	660	720	732	762	806	830	872	661	
19	788	774	858	828	797	785	759	172	445	301	196	116	178	579	766	552	537	706	740	729	742	781	971	920	626	
20	923	1023	815	762	766	631	521	734	723	463	484	454	308	648	565	586	559	740	787	740	747	741	809	893	684	
21	864	791	933	997	910	741	405	586	586	279	208	535	677	688	717	702	724	710	725	742	766	827	771	780	694	
22 D	776	770	774	779	794	721	735	441	468	324	356	332	668	380	122	437	653	770	764	770	757	751	757	754	619	
23 D	1002	1065	925	814	752	734	836	596	614	619	512	548	661	468	468	703	716	685	754	769	765	747	757	771	720	
24	782	766	780	805	844	783	532	491	427	490	589	538	617	680	687	748	770	766	736	762	769	786	803	782	697	
25	823	793	872	844	847	714	717	738	183	273	231	609	759	681	706	674	714	720	742	754	759	761	778	808	688	
26	771	769	778	784	792	835	814	675	410	599	728	564	672	719	737	768	747	727	747	766	769	770	784	812	731	
27	806	813	851	830	790	785	784	723	566	453	612	778	799	796	784	767	754	750	751	754	760	774	789	789	752	
28	785	772	776	779	785	784	787	793	790	779	768	787	800	801	803	773	766	740	718	798	763	772	783	816	774	
29	897	913	922	840	845	805	787	794	772	797	799	782	787	805	794	768	759	748	738	744	753	762	775	776	798	
30 Q	774	780	804	795	790	793	796	801	794	781	786	787	789	784	780	771	743	723	716	717	731	755	769	776	772	
31	787	788	792	796	793	790	787	793	796	799	797	796	784	776	764	775	753	718	710	733	751	778	769	784	775	
Mean	818	835	831	807	797	766	744	702	651	625	639	648	667	696	676	691	715	730	734	739	750	769	802	812	735	

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 30 Meanook

D = 24° E + . . . ' 1

August 1947

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	42.7	46.6	48.5	54.5	55.4	51.6	49.8	42.0	55.4	54.0	60.6	67.8	69.7	74.8	81.1	83.3	75.1	71.6	65.8	59.0	52.6	47.4	48.5	51.1	58.7
2	52.6	55.8	54.3	54.9	52.9	52.8	53.6	54.3	55.1	54.5	57.9	62.1	66.0	69.9	74.3	69.0	70.6	68.2	55.8	53.5	55.0	53.6	54.5	54.5	58.6
3	53.4	53.7	54.7	54.8	55.1	56.3	56.3	54.4	54.4	58.3	60.2	62.7	65.8	68.4	72.2	74.0	68.6	65.0	61.4	54.9	52.8	51.6	51.5	52.6	58.9
4	56.2	56.3	54.7	53.7	54.9	56.3	54.4	56.1	54.4	53.4	56.8	58.1	63.3	70.5	72.7	72.6	69.9	65.3	62.3	59.1	56.1	53.5	52.8	52.6	59.0
5 Q	56.8	54.2	56.3	58.0	54.4	55.6	56.4	57.1	58.6	58.6	60.1	61.1	63.2	67.3	69.8	73.2	77.4	70.9	60.9	54.4	50.6	49.6	49.1	52.4	59.4
6	55.6	55.6	56.8	56.4	56.6	58.3	48.3	56.9	57.3	56.2	54.4	58.9	64.1	69.5	71.4	69.4	68.3	67.8	60.1	55.3	49.8	44.7	44.7	48.3	57.7
7	52.4	55.0	54.9	58.2	63.9	59.2	57.3	56.8	57.2	57.5	58.5	61.2	65.1	68.4	71.4	75.1	75.6	73.3	61.6	60.3	50.7	50.0	49.7	49.5	60.1
8 Q	51.0	52.4	57.0	55.3	55.3	55.0	56.3	56.1	56.4	57.6	58.8	57.9	58.7	62.7	65.2	68.8	69.1	67.5	60.5	56.1	53.5	50.5	50.6	53.6	57.7
9 Q	54.8	55.0	54.7	57.4	54.8	53.9	55.7	56.5	54.9	56.7	58.6	63.2	68.3	71.7	74.6	75.5	73.9	70.6	64.5	58.7	53.9	51.0	50.2	49.6	59.9
10 Q	53.6	53.8	54.9	54.5	55.5	63.7	60.3	57.5	57.3	58.4	61.6	61.6	65.6	73.9	72.6	70.1	71.4	66.0	59.5	54.7	52.1	51.1	51.2	50.6	59.6
11	50.5	51.7	55.3	53.6	54.3	53.8	54.8	56.2	59.8	60.3	61.2	65.3	67.2	67.8	70.6	67.4	69.6	66.9	64.9	55.9	53.6	51.8	51.6	50.6	58.9
12	49.7	47.3	50.7	34.0	52.9	49.0	43.7	44.4	57.8	57.5	61.6	66.2	69.8	75.9	80.5	75.3	72.7	67.9	62.1	58.5	55.4	50.9	48.7	47.6	57.5
13	55.5	55.8	57.4	57.6	57.2	57.7	60.6	62.6	56.7	49.7	59.2	61.9	61.6	71.7	72.3	73.4	79.2	57.0	54.6	59.5	44.2	46.6	58.4	61.8	59.7
14	64.1	68.0	62.6	59.3	59.7	60.7	63.5	62.6	57.9	59.8	56.8	59.5	63.7	63.7	69.1	70.2	66.7	60.6	55.1	53.7	51.0	50.5	53.1	54.6	60.3
15 D	58.0	60.0	59.5	58.6	57.7	56.7	57.1	58.9	63.7	65.5	76.1	89.6	98.1	88.9	91.9	98.2	88.2	72.0	63.3	53.2	64.3	81.7	101.0	70.1	72.2
16 D	64.5	46.8	50.8	51.9	51.1	50.8	55.3	55.8	53.9	58.7	70.0	63.1	86.6	50.7	84.8	81.2	78.8	65.0	51.6	54.0	56.9	49.4	53.5	57.4	60.1
17	67.5	70.3	62.0	67.9	60.8	48.9	55.5	58.5	55.8	59.9	57.6	57.6	67.7	76.0	73.7	87.0	74.4	58.7	67.5	54.6	54.5	60.7	62.6	57.0	63.2
18 D	53.6	68.2	62.1	57.2	66.2	62.1	62.5	64.6	57.9	66.1	54.2	66.7	20.8	59.9	73.0	78.0	80.0	75.2	65.3	55.1	51.1	59.3	57.9	63.2	61.7
19	56.1	56.0	69.9	71.2	62.4	58.4	58.3	61.8	40.9	86.7	38.9	52.0	56.8	75.4	74.0	84.9	80.9	71.3	64.3	58.8	54.6	51.5	66.6	58.8	62.9
20	56.3	70.1	57.6	54.4	58.2	66.7	26.9	62.1	64.3	61.3	62.0	67.6	71.8	58.5	56.5	74.0	77.9	63.2	64.3	55.0	56.0	51.2	57.8	59.7	60.6
21	58.7	56.6	58.6	59.3	57.9	68.3	69.0	54.7	57.0	61.9	59.1	71.3	68.1	66.0	68.8	65.1	63.2	54.5	52.9	51.7	57.4	57.9	52.7	54.4	60.2
22 D	56.6	59.0	60.3	59.9	57.9	67.4	66.2	50.6	45.1	22.3	73.1	49.4	68.3	61.4	88.5	85.1	81.6	57.0	54.0	54.5	53.8	54.5	54.5	57.5	59.9
23 D	63.0	63.7	43.0	60.3	61.4	52.0	55.0	36.6	52.0	53.1	48.5	47.8	65.3	66.9	55.2	63.5	71.1	71.7	59.9	59.6	58.8	59.0	59.5	60.5	57.8
24	70.1	69.9	70.0	63.7	67.0	65.6	60.6	59.2	66.3	83.5	74.0	68.4	62.2	67.9	71.5	71.3	66.0	64.0	63.8	69.1	65.3	60.2	58.3	56.7	66.4
25	61.9	64.4	63.8	72.8	62.2	67.3	60.9	60.0	65.5	95.0	85.4	78.2	81.7	81.8	83.1	76.2	67.5	62.8	62.4	58.4	61.5	61.3	63.1	63.1	69.2
26	63.7	61.6	61.5	62.4	62.3	63.5	61.5	58.8	67.2	55.8	69.5	61.4	69.2	75.2	76.0	74.1	68.4	64.1	57.2	57.0	59.0	59.9	62.3	63.2	64.0
27	64.0	64.8	60.3	60.3	58.6	57.4	78.9	82.8	65.8	65.4	73.1	72.0	71.9	76.9	78.9	77.8	74.5	67.4	62.1	58.3	58.0	59.2	60.9	60.9	67.1
28	61.2	60.8	60.7	60.9	59.3	58.6	58.5	60.2	63.3	62.8	66.2	67.8	70.3	75.1	79.4	80.9	75.3	71.6	64.4	61.7	60.6	58.7	54.5	54.3	64.5
29	53.9	52.4	54.5	57.5	59.3	59.8	60.5	64.2	62.0	67.2	64.2	68.0	72.1	74.4	78.0	83.7	77.5	69.0	64.2	59.6	56.8	55.3	56.4	57.9	63.7
30 Q	61.8	60.5	58.4	58.4	58.3	58.7	58.5	62.7	61.7	64.1	66.4	67.2	69.2	72.4	75.8	77.0	75.8	69.2	65.5	59.5	58.5	57.5	59.7	61.7	64.1
31	64.1	61.6	60.3	59.3	60.0	59.6	60.4	60.7	61.4	66.6	66.1	67.0	72.6	77.7	82.8	85.4	83.5	77.2	66.6	52.7	50.6	51.3	53.3	56.9	64.9
Mean	57.5	58.3	57.6	58.0	58.2	58.2	57.3	57.6	58.0	60.9	62.3	64.0	67.3	70.4	74.5	76.2	74.0	66.9	61.2	57.0	55.1	54.6	56.4	56.2	61.6

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

Table 31 Meanook

$z = 58,500 \gamma +$

August 1947

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	602	598	603	576	523	524	510	498	515	487	448	467	488	487	492	493	488	482	483	499	507	506	501	495	511	
2	502	513	512	522	510	500	491	501	430	454	442	489	493	489	491	491	493	503	504	500	523	563	594	563	503	
3	523	515	509	500	496	499	498	494	456	432	473	488	487	480	467	460	474	474	474	487	498	510	518	536	490	
4	556	552	522	513	511	515	532	505	483	459	390	319	442	487	503	503	498	496	501	504	508	515	522	527	494	
5 Q	519	519	527	514	498	498	498	498	497	494	499	503	501	504	499	493	492	491	488	479	479	484	488	492	498	
6	494	490	488	492	500	507	504	504	495	493	413	384	458	474	489	491	491	491	494	493	501	505	514	520	487	
7	527	512	516	521	532	527	507	494	491	492	496	498	501	505	507	516	514	507	504	494	495	491	494	519	507	
8 Q	550	563	529	506	500	510	516	507	502	486	492	487	462	435	440	472	505	524	530	527	520	522	522	523	505	
9 Q	518	508	507	505	501	507	511	508	508	507	506	505	501	499	496	497	489	484	476	484	487	505	503	507	501	
10 Q	518	511	505	509	507	502	498	496	485	475	448	446	461	463	480	492	500	503	504	507	513	517	516	517	495	
11	523	523	507	499	496	502	517	507	496	492	486	473	476	465	437	390	433	462	488	494	491	512	538	543	490	
12	542	589	623	332	529	492	438	590	608	616	516	505	495	510	503	502	513	520	520	517	542	552	540	582	528	
13	550	514	514	515	522	533	510	434	262	257	410	519	515	501	491	461	483	491	512	538	544	547	600	652	495	
14	645	616	599	565	557	539	522	513	494	481	497	511	514	499	485	479	492	496	508	511	521	535	544	539	528	
15 D	535	527	524	528	528	537	538	506	463	432	352	804	591	500	499	488	465	480	489	487	518	559	445	295	504	
16 D	298	567	586	564	543	531	482	505	518	509	482	430	581	486	438	667	533	507	558	589	602	594	607	589	532	
17	625	658	674	593	512	525	549	629	647	520	523	607	606	529	549	642	483	513	578	614	633	665	655	605	589	
18 D	595	556	555	629	530	422	512	512	520	314	383	494	373	325	230	441	492	476	587	605	595	588	624	637	500	
19	568	557	609	589	583	588	530	542	561	546	787	587	790	557	518	471	384	520	551	524	522	529	654	588	569	
20	620	595	584	576	576	420	286	454	467	509	412	498	501	510	338	385	403	506	556	540	553	565	605	640	504	
21	640	599	623	600	561	408	360	571	596	519	525	457	456	512	521	484	534	545	559	572	600	631	574	561	542	
22 D	561	564	566	555	548	439	493	474	447	477	998	1140	911	719	401	486	495	550	560	568	576	572	567	568	593	
23 D	652	540	484	461	495	477	523	477	513	531	367	364	443	456	461	553	579	571	554	580	561	560	563	577	514	
24	592	590	586	574	584	525	381	367	412	492	365	514	506	516	511	563	567	568	565	599	611	618	603	582	533	
25	601	594	627	601	598	404	416	491	319	505	324	467	525	477	491	486	494	541	558	566	568	568	581	580	516	
26	553	549	549	552	564	567	557	431	338	406	497	447	431	455	472	509	523	523	543	557	553	558	560	575	511	
27	605	605	636	628	577	570	486	313	400	511	499	535	569	558	549	547	546	545	550	552	555	555	550	546	541	
28	551	546	553	547	545	552	554	542	534	521	488	501	522	532	539	533	542	543	549	553	557	567	566	587	543	
29	663	658	660	622	612	551	485	465	455	517	567	553	555	563	547	541	533	536	544	548	550	550	550	548	557	
30 Q	546	547	555	565	557	560	558	543	560	553	547	548	545	544	546	546	546	544	544	556	559	562	561	556	552	
31	548	545	544	543	547	546	545	546	551	559	555	546	536	528	508	517	526	519	519	524	533	547	584	587	542	
Mean	559	559	561	542	537	509	493	497	484	486	490	519	524	502	481	503	500	513	527	534	541	550	556	553	522	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32 Meanook

August 1947

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Range $\gamma$	Maximum 24° East +			Minimum 24° East +			Range $\gamma$	Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range $\gamma$
	h.	m.	$\gamma$	h.	m.	$\gamma$		h.	m.	'	h.	m.	'		h.	m.	$\gamma$	h.	m.	$\gamma$	
1	00	55	1021	10	35	637	384	15	17	89.9	07	18	33.6	56.3	00	53	681	10	49	379	302
2	08	27	841	17	23	691	150	14	25	77.5	08	44	34.3	43.2	22	22	616	08	37	293	323
3	23	55	820	08	45	716	104	14	52	77.5	21	27	48.6	28.9	23	55	555	09	15	380	175
4	06	13	841	11	03	533	308	15	52	74.7	09	51	43.9	30.8	01	02	584	11	00	211	373
5 Q	13	15	812	18	19	727	85	16	34	79.8	22	17	47.9	31.9	03	00	535	20	32	471	64
6	23	47	826	11	03	637	189	15	14	75.7	22	10	42.8	32.9	23	57	539	11	04	311	228
7	02	30	835	18	36	684	151	17	28	77.2	21	27	47.8	29.4	04	03	548	21	13	484	64
8 Q	00	22	835	14	10	711	124	15	47	71.9	00	20	47.8	24.1	01	43	574	13	35	421	153
9 Q	05	35	814	22	34	694	120	15	50	77.0	22	55	44.8	32.2	00	00	524	18	40	474	50
10 Q	03	03	807	18	08	726	81	05	38	77.0	23	48	49.7	27.3	00	25	526	11	07	439	87
11	06	07	805	15	20	685	120	11	53	74.8	23	57	48.5	26.3	23	57	556	15	20	373	183
12	02	52	1155	07	21	261	894	14	35	85.3	03	25	12.9	98.2	08	00	767	03	28	127	640
13	22	25	910	09	25	498	412	16	22	87.9	09	25	36.0	51.9	23	58	672	09	15	137	535
14	01	36	1016	14	31	686	330	01	37	78.3	21	20	46.9	31.4	00	15	681	15	12	467	214
15 D	22	58	1403	10	53	301	1102	12	05	118.6	19	41	45.4	73.2	11	28	909	24	00	175	734
16 D	00	31	1322	14	07	-201	1523	14	36	146.1	13	26	07.5	138.6	13	53	935	14	21	246	689
17	01	15	1105	08	41	-77	1182	14	12	137.6	08	35	-31.6	169.2	08	44	928	09	15	325	603
18 D	02	06	1137	09	20	032	1105	01	49	93.3	12	21	-42.5	135.8	11	49	748	14	07	163	585
19	22	51	1113	12	12	-85	1198	09	50	164.9	11	00	-21.4	186.3	12	15	1055	16	00	301	754
20	01	09	1145	12	37	-316	1461	05	31	158.3	06	14	-44.2	202.5	23	54	695	06	12	153	542
21	03	05	1111	10	08	-63	1174	10	37	103.5	10	21	03.7	99.8	10	44	742	06	33	213	529
22 D	18	17	815	11	03	-171	986	10	30	152.1	09	27	-14.5	166.6	11	47	1183	14	53	293	890
23 D	00	17	1325	07	42	246	1079	03	17	96.4	07	37	-59.3	155.7	06	14	723	02	40	121	602
24	04	51	901	08	46	322	579	09	13	116.1	07	06	44.0	72.1	09	15	711	07	00	193	518
25	02	27	941	08	45	-20	961	09	42	114.4	08	09	40.7	73.7	09	31	723	08	28	076	647
26	05	53	874	08	27	175	699	08	06	83.3	09	18	43.6	39.7	23	48	586	08	25	167	419
27	03	05	879	09	18	224	655	06	42	110.2	08	05	48.7	61.5	03	03	682	08	00	186	496
28	23	56	856	18	30	725	131	15	35	82.6	23	05	51.4	31.2	24	00	617	10	14	467	150
29	00	48	973	17	44	716	257	15	32	88.2	01	52	45.6	42.6	22	22	718	07	43	407	311
30 Q	02	25	840	18	25	713	127	15	22	79.6	06	48	53.4	26.2	03	43	584	07	17	514	70
31	23	28	842	17	54	690	152	15	03	92.7	20	35	47.7	45.0	23	45	605	14	24	492	113
Mean			965			390	575			98.1			25.1	73.0			694			305	389
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 1947

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	772	773	793	785	798	799	778	777	784	797	789	793	797	793	786	770	747	730	737	726	728	758	778	772	773	
2	775	774	777	784	785	787	785	787	788	788	787	791	791	795	795	780	753	736	721	724	736	764	776	779	773	
3 D	808	825	849	894	925	793	769	816	544	596	567	647	776	705	624	614	618	586	573	635	742	758	811	896	724	
4	909	816	766	798	741	703	461	664	737	556	753	771	783	785	761	761	733	713	736	718	722	723	753	768	735	
5	827	823	785	772	772	768	774	604	733	610	631	727	640	655	730	739	737	735	741	733	736	761	772	771	732	
6	823	796	777	777	780	783	784	821	811	792	786	785	761	710	714	694	618	677	711	697	735	768	764	831	758	
7	818	939	837	888	837	853	835	468	612	724	567	629	757	639	650	716	721	740	705	762	802	795	787	818	746	
8	866	784	749	753	780	776	768	777	792	799	792	788	792	784	783	772	753	733	720	722	730	741	764	784	771	
9 Q	772	772	768	776	780	777	782	776	780	780	782	776	776	776	766	753	741	737	737	745	754	760	780	776	768	
10 Q	771	769	778	788	782	780	783	784	786	788	788	789	792	788	783	768	749	745	754	783	764	780	784	782	776	
11	778	776	778	784	787	788	792	792	796	799	792	768	702	733	753	781	704	677	711	718	733	769	792	792	762	
12	768	779	798	796	796	797	844	841	684	810	802	785	786	778	776	762	732	728	731	749	775	821	904	904	789	
13	1009	1063	1052	962	763	674	771	475	645	343	382	382	396	460	771	767	737	748	748	767	798	880	893	841	722	
14 D	833	842	840	907	492	649	634	392	536	661	135	170	512	509	698	692	622	556	766	770	762	803	837	840	644	
15 D	856	934	907	887	870	817	822	378	415	536	388	474	439	486	490	445	731	622	700	761	801	848	790	770	674	
16	786	793	772	774	768	804	806	754	810	799	785	793	793	796	800	777	730	695	730	754	744	783	785	849	778	
17	838	820	939	843	831	668	630	741	597	605	355	201	418	494	542	394	550	647	745	753	767	807	807	839	660	
18	868	861	890	907	875	771	497	576	335	422	347	421	506	452	714	761	752	767	771	767	812	815	853	868	692	
19	806	787	787	798	802	787	654	654	565	604	495	479	713	678	758	771	744	775	749	756	767	785	801	857	724	
20	826	791	787	773	787	798	767	600	627	617	459	643	732	736	713	724	732	748	740	736	745	759	794	756	725	
21	771	783	794	817	818	876	814	565	572	502	759	724	672	682	657	759	760	720	713	760	763	767	763	791	733	
22	793	786	785	783	785	790	634	428	598	397	521	727	755	733	484	601	696	776	765	735	790	783	813	846	700	
23	905	786	759	767	788	671	642	274	492	430	268	500	718	827	790	777	757	744	747	749	757	766	770	786	686	
24 D	786	778	782	778	774	679	554	557	482	356	243	433	288	593	444	509	805	503	638	850	878	1037	1054	1035	660	
25 D	901	773	724	627	768	791	618	495	697	705	709	593	423	580	606	526	456	674	767	759	749	872	876	820	688	
26	805	836	926	779	755	743	747	731	739	751	747	755	762	747	752	727	711	727	743	735	743	749	749	733	758	
27	760	797	786	810	857	790	825	793	772	766	762	766	772	758	774	757	754	749	747	741	747	744	746	738	771	
28 Q	762	774	772	770	767	769	772	772	774	772	762	766	751	780	772	767	746	733	739	755	746	755	747	758	762	
29 Q	754	777	769	789	789	789	790	798	734	709	684	703	770	773	765	738	730	734	732	728	745	757	765	771	754	
30	777	773	768	766	765	761	764	766	767	771	769	766	766	773	778	774	771	750	742	729	712	731	754	769	761	
31																										
Mean	817	813	810	804	787	768	730	655	667	653	614	645	678	693	708	706	713	707	729	743	759	788	802	811	733	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 34 Meanook

D = 24° E + ...'

September 1947

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	57.7	59.9	57.4	56.4	57.3	57.9	60.7	62.2	63.9	63.0	64.9	66.3	68.5	73.1	77.2	77.9	77.7	74.4	72.0	63.2	50.1	52.2	56.1	58.4	63.7	
2	59.2	60.7	58.3	58.6	60.2	61.9	63.1	63.1	64.1	64.5	65.0	66.5	69.9	73.7	76.6	78.6	76.1	74.3	68.2	62.9	59.0	57.4	55.7	55.4	64.7	
3 D	52.7	48.6	47.7	51.9	53.3	58.1	57.4	56.0	72.9	71.4	88.2	76.7	70.5	82.1	77.4	74.8	74.6	74.8	64.0	56.2	52.2	55.3	58.9	61.1	64.0	
4	60.8	61.6	63.3	67.8	62.5	68.8	73.0	68.8	67.3	60.9	62.5	65.7	69.8	72.7	80.4	82.4	81.2	78.5	65.9	57.2	59.1	58.3	59.1	57.6	66.9	
5	63.9	63.7	61.2	64.0	65.8	61.9	63.5	59.7	63.1	62.5	76.0	71.6	72.3	76.6	72.8	75.5	73.7	64.5	62.9	57.1	56.8	55.4	56.1	56.3	64.9	
6	51.8	51.6	56.4	56.6	58.5	58.3	60.2	58.8	59.8	63.9	59.6	70.6	73.5	71.6	80.3	79.3	82.7	65.3	65.7	66.8	58.1	60.8	57.6	54.0	63.4	
7	58.4	63.8	62.0	64.5	68.1	60.1	61.8	62.5	69.1	70.5	61.3	65.7	70.5	72.5	65.1	78.7	73.9	76.1	83.8	80.6	77.8	52.2	48.5	48.0	66.5	
8	54.1	55.5	61.8	62.8	62.6	63.8	61.8	62.3	61.8	63.8	65.0	65.5	68.6	74.4	78.2	77.8	76.3	72.1	65.8	58.0	54.1	53.7	56.5	58.1	63.9	
9 Q	60.4	59.9	59.3	59.1	58.6	60.3	61.2	61.2	62.7	64.1	65.3	65.1	69.2	73.3	76.8	76.7	74.8	70.4	64.6	59.8	56.9	55.0	56.4	60.5	63.8	
10 Q	61.5	60.8	59.7	58.7	59.7	59.3	60.7	61.5	62.4	63.5	63.6	64.4	65.5	68.4	71.3	74.2	71.3	66.5	58.7	55.8	56.8	58.5	58.9	59.8	62.6	
11	60.3	58.9	58.7	58.9	59.7	60.2	60.2	60.5	62.1	64.0	64.5	66.9	62.6	79.5	79.8	78.1	61.9	62.1	53.4	56.8	51.3	55.0	57.8	61.1	62.7	
12	61.5	60.3	58.0	57.5	56.9	56.9	57.7	61.3	66.8	76.5	70.6	71.2	70.4	72.2	74.1	76.0	76.0	70.6	63.3	57.7	61.0	55.3	54.4	60.6	64.4	
13	58.5	54.7	60.5	62.9	57.6	62.6	53.7	69.4	65.1	76.4	78.5	108.8	89.0	84.2	74.5	67.0	64.3	61.9	58.5	54.7	55.6	62.9	61.4	56.6	66.6	
14 D	56.6	59.5	59.5	58.5	64.2	61.4	66.3	61.3	67.2	63.1	85.8	84.3	96.7	95.2	90.0	82.7	68.7	61.9	52.5	60.0	57.4	62.2	60.9	61.2	68.2	
15 D	56.7	60.4	65.7	60.4	60.8	56.5	71.0	24.9	34.5	77.1	86.1	70.7	59.3	46.8	66.5	64.5	62.1	54.7	48.9	57.7	66.0	59.4	58.1	58.2	59.5	
16	60.4	61.3	60.4	59.6	60.4	65.2	63.3	58.5	67.1	67.1	65.9	62.3	63.3	69.1	72.7	71.6	69.1	66.2	54.6	59.1	58.4	60.2	58.6	61.4	63.2	
17	60.3	61.7	64.1	62.2	60.7	58.4	58.3	64.3	64.1	72.8	51.0	70.0	59.7	72.4	81.5	69.4	52.7	57.4	59.3	57.4	60.3	62.9	60.3	60.7	62.6	
18	66.9	59.4	70.4	67.0	61.2	45.7	46.4	62.4	59.7	72.4	52.8	68.9	75.3	69.4	72.8	71.9	71.7	65.3	64.1	63.2	64.1	63.4	66.1	72.2	64.7	
19	59.2	61.1	60.6	83.4	66.4	60.9	50.5	63.1	66.0	67.9	85.3	43.5	61.1	79.3	79.9	81.2	72.7	70.4	66.9	62.6	63.6	65.0	60.2	66.9	66.6	
20	60.2	64.9	63.7	60.0	59.1	68.8	57.2	40.7	67.8	62.9	53.1	66.0	68.8	66.8	75.3	76.0	77.3	70.7	63.9	55.8	59.1	61.0	61.9	61.0	63.4	
21	61.5	62.0	61.9	79.6	68.3	63.0	58.9	38.8	66.8	95.3	71.2	67.8	70.9	76.9	81.6	76.5	71.7	68.8	54.7	52.8	57.2	59.1	59.3	60.3	66.0	
22	60.7	61.3	60.9	60.8	62.3	64.4	32.7	75.5	71.6	73.5	57.7	70.8	65.8	71.6	88.0	80.1	70.0	66.9	68.7	66.7	58.0	57.5	57.6	58.5	65.1	
23	62.8	57.9	59.1	58.9	60.8	75.8	56.0	74.4	77.3	82.1	93.5	77.3	77.1	70.0	75.1	78.0	76.7	72.4	67.1	62.9	60.6	58.9	59.7	60.8	67.8	
24 D	62.4	58.0	57.8	56.8	65.6	63.1	65.1	74.0	80.3	87.2	87.1	74.1	67.4	56.9	73.2	54.5	72.9	91.1	93.6	94.1	88.8	86.8	70.2	69.4	72.9	
25 D	67.4	65.0	42.1	21.3	31.7	39.5	11.0	-7.4	68.4	72.4	74.9	71.3	74.9	104.3	92.7	85.0	74.2	61.2	61.8	68.3	62.0	59.7	56.0	53.9	58.8	
26	54.6	52.8	60.3	62.5	58.6	60.0	62.5	61.8	66.1	66.2	65.7	65.5	65.4	68.3	71.2	72.1	71.5	67.3	65.3	63.4	61.1	58.6	57.1	55.8	63.1	
27	55.7	50.9	51.2	63.4	53.2	59.3	58.6	59.5	62.4	63.3	65.2	66.7	66.2	68.4	70.2	73.0	61.8	68.6	69.1	67.4	63.5	61.4	56.6	56.2	62.6	
28 Q	53.4	54.5	56.4	57.6	59.4	59.0	60.3	61.3	62.3	62.8	66.0	63.7	65.3	66.6	68.1	69.2	73.9	69.5	63.2	60.4	58.6	56.6	56.0	54.7	61.6	
29 Q	57.1	54.4	58.3	57.8	57.3	57.3	57.5	60.2	64.1	73.2	71.2	69.1	63.5	64.1	66.0	69.9	69.9	65.5	65.5	58.1	55.3	54.4	51.9	55.1	61.5	
30	56.2	59.2	59.2	57.3	57.4	59.2	59.7	60.1	59.9	61.2	60.9	59.6	60.1	63.2	66.3	70.0	72.7	71.0	73.5	69.0	60.4	48.3	50.5	49.5	61.0	
31																										
Mean	59.1	58.8	59.2	60.2	59.6	60.3	57.7	58.0	64.9	69.5	69.3	69.2	69.4	72.8	75.9	74.8	72.5	68.7	64.6	62.2	60.1	58.9	57.9	58.8	64.3	

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

Table 35 Meanook

$z = 58,500 \gamma +$

September 1947

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 Q	574	563	577	561	568	568	550	536	536	536	531	542	542	542	547	547	552	547	539	533	530	530	531	536	547
2	539	536	531	531	530	529	531	530	531	530	533	533	538	538	537	536	535	531	534	531	538	546	549	545	535
3 D	547	554	558	649	640	563	530	540	797	752	854	601	542	536	556	504	461	471	536	543	579	579	595	609	587
4	617	612	590	568	552	476	275	445	515	509	530	547	563	574	558	559	547	548	535	545	554	562	579	590	540
5	622	614	601	585	561	542	558	385	480	452	412	465	466	423	482	531	548	556	570	558	563	560	552	547	526
6	558	558	558	553	547	550	551	498	574	562	542	536	529	480	450	455	441	450	515	572	579	573	568	595	533
7	605	622	617	622	574	628	590	434	515	531	509	520	536	488	471	515	522	551	562	639	714	714	660	655	575
8	649	612	595	574	568	574	562	547	556	547	542	542	547	552	552	552	552	552	551	558	562	561	553	561	563
9 Q	563	553	548	549	549	547	545	544	544	543	543	540	539	547	542	540	536	542	547	556	558	558	558	556	548
10 Q	550	552	547	550	547	545	542	542	542	542	540	540	540	542	542	542	536	538	547	547	548	546	547	542	544
11	540	535	536	539	538	538	542	545	545	542	515	486	415	444	461	488	536	531	536	564	588	579	592	583	530
12	551	551	578	585	581	574	548	558	488	547	564	548	549	545	545	542	536	534	531	542	557	605	676	666	563
13	635	550	504	583	454	434	515	576	622	851	849	806	763	498	542	558	558	566	568	574	590	633	681	656	607
14 D	619	633	606	486	450	547	609	633	711	720	477	606	730	628	504	488	525	508	574	595	617	629	639	648	591
15 D	644	644	612	580	612	609	493	220	547	428	687	682	396	385	450	363	493	558	558	590	639	666	617	593	544
16	586	590	579	562	568	560	385	374	547	568	549	547	547	557	558	548	540	536	552	560	584	609	622	657	554
17	618	519	537	614	603	407	385	552	525	471	474	363	212	266	353	374	396	471	595	601	633	653	655	622	500
18	614	643	545	614	609	549	417	547	617	622	419	358	285	477	536	536	547	579	592	600	618	621	620	632	550
19	595	581	595	590	592	568	307	363	504	409	396	396	397	380	498	525	524	579	574	579	606	614	606	631	517
20	606	603	574	573	572	495	515	482	477	439	452	477	523	539	499	509	536	568	568	561	571	579	590	583	537
21	579	568	567	579	558	573	527	558	525	509	517	475	466	477	503	531	542	552	574	588	599	599	602	607	549
22	585	579	574	575	574	553	531	369	542	687	577	612	592	547	442	459	520	575	567	596	639	618	633	636	566
23	622	575	566	567	549	463	547	667	601	676	746	595	520	592	581	563	563	563	558	560	563	562	565	568	580
24 D	590	609	612	566	586	493	502	561	572	694	584	730	666	876	890	833	817	860	747	739	715	663	585	293	658
25 D	293	380	358	461	407	543	542	666	602	628	605	713	662	536	509	498	477	617	612	601	628	644	635	644	553
26	628	650	639	619	601	573	581	581	570	566	548	547	560	567	572	563	551	549	552	553	558	567	573	573	577
27	574	590	617	607	644	606	590	563	584	579	568	564	566	558	562	556	557	558	558	560	563	574	575	568	577
28 Q	570	592	574	573	564	562	562	562	560	552	534	520	515	558	558	561	551	546	531	543	547	560	558	563	555
29 Q	558	567	562	581	595	579	579	579	606	605	530	493	530	552	558	548	542	540	547	548	568	592	607	620	566
30	612	577	571	577	570	557	550	545	546	547	549	546	542	556	560	563	560	562	558	557	551	560	563	568	560
31																									
Mean	581	580	568	572	562	544	515	517	563	571	556	548	526	525	531	530	537	555	563	573	589	595	596	588	558

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36 Meanook

September 1947

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum			Minimum			Range	Maximum			Minimum			Range	Maximum			Minimum			Range
	12,000 $\gamma$ +			12,000 $\gamma$ +				24° East +			24° East +				58,500 $\gamma$ +			58,500 $\gamma$ +			
h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1 Q	05	05	817	20	05	698	119	15	38	81.0	20	57	48.3	32.7	02	30	587	23	47	524	63
2	23	30	902	18	55	707	195	15	34	80.5	23	43	49.5	31.0	23	33	574	23	45	519	55
3 D	04	25	1006	08	28	173	833	09	45	116.2	09	00	22.0	94.2	08	56	1003	17	15	434	569
4	00	21	972	06	00	331	641	05	57	117.1	19	17	49.8	67.3	00	37	644	06	18	113	531
5	00	50	859	12	55	418	441	13	07	92.4	07	30	49.3	43.1	00	52	639	08	57	294	345
6	00	54	880	16	30	601	279	16	26	96.2	00	45	46.4	49.8	19	55	606	17	18	401	205
7	01	20	1056	07	51	231	825	16	15	100.2	23	35	46.6	53.6	20	35	811	07	40	123	688
8	00	27	899	02	05	661	238	16	03	80.7	00	05	47.8	32.9	00	19	676	07	10	529	147
9 Q	00	15	797	17	54	729	68	14	35	78.9	21	10	53.8	25.1	00	15	566	15	50	532	34
10 Q	21	24	796	17	45	737	59	15	40	76.4	19	54	55.4	21.0	03	52	553	15	15	536	17
11	22	36	831	17	13	644	187	16	36	86.9	17	45	51.1	35.8	22	35	609	12	50	369	240
12	22	40	931	08	21	508	423	09	00	88.1	21	30	50.9	37.2	21	25	687	08	15	398	289
13	02	03	1105	09	40	105	1000	11	06	124.2	01	50	48.0	76.2	10	24	1043	07	15	333	710
14 D	03	18	948	11	05	-79	1027	11	55	126.0	04	40	-46.8	172.8	12	46	954	10	45	207	747
15 D	01	15	1024	07	56	112	912	10	45	146.7	07	45	-75.9	222.6	10	20	812	10	15	169	643
16	23	50	892	06	44	621	271	07	00	90.0	06	36	24.6	65.4	23	45	698	06	25	288	410
17	02	42	1138	11	18	019	1119	02	32	115.4	05	50	23.5	91.9	22	25	668	12	48	056	612
18	02	35	1040	10	25	136	904	13	18	121.8	05	51	48.5	73.3	01	54	689	06	32	114	575
19	05	53	911	10	42	314	597	10	48	92.4	11	48	12.0	80.4	23	12	638	06	40	158	480
20	00	42	845	10	21	345	500	05	10	87.1	07	45	23.8	63.3	01	27	643	07	32	380	263
21	05	55	966	07	35	354	612	09	52	103.7	07	32	-14.1	117.8	07	35	687	08	50	280	407
22	23	57	910	06	32	206	704	07	13	114.1	06	33	-68.3	182.4	09	37	790	07	25	207	583
23	00	24	996	07	23	-28	1024	11	25	129.4	07	15	04.3	125.1	10	20	929	05	20	266	663
24 D	23	25	1146	10	32	-114	1260	16	26	146.1	11	03	04.9	141.2	15	07	1237	23	20	207	1030
25 D	05	30	964	12	12	-230	1194	13	10	132.9	07	12	-69.5	202.4	07	40	1032	07	18	185	847
26	02	12	1002	16	18	702	300	16	00	77.0	00	40	50.0	27.0	02	00	702	11	40	540	162
27	07	00	922	22	00	718	204	07	00	76.9	04	36	45.9	31.0	04	44	659	07	15	464	195
28 Q	01	14	794	16	55	721	73	16	40	81.5	01	20	48.7	32.8	01	25	598	12	25	493	105
29 Q	07	19	816	10	47	627	189	10	15	76.2	06	40	50.7	25.5	24	00	633	08	42	439	194
30	20	43	799	20	43	683	116	16	15	74.5	21	15	41.9	32.6	00	02	639	11	23	538	101
31																					
Mean			932			388	544			100.3			24.1	76.2			734			337	397
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 1947

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	764	785	891	1038	912	824	810	625	711	775	756	726	788	785	769	780	764	750	765	750	757	789	828	826	790
2 D	847	887	940	886	929	906	471	479	726	352	488	429	396	454	408	307	561	637	586	742	800	882	987	972	670
3	1030	943	976	878	711	812	812	757	320	343	426	547	750	660	773	771	750	728	728	730	738	789	771	765	730
4	738	765	770	759	778	797	793	782	777	707	751	770	772	769	751	742	725	716	712	716	723	732	739	755	752
5	762	768	770	768	774	779	774	774	777	776	775	783	782	787	779	778	758	739	719	719	733	740	757	765	764
6	771	768	772	781	780	781	781	781	782	780	780	751	781	757	766	771	777	764	734	730	730	732	740	767	765
7	772	770	772	778	780	784	788	786	763	503	688	784	795	792	788	780	760	724	679	721	737	741	729	760	749
8	756	772	773	787	817	830	808	770	713	639	736	727	740	739	736	779	791	771	748	742	745	746	763	769	758
9 D	768	799	834	919	896	802	601	535	593	440	359	423	354	328	418	690	683	685	700	697	739	788	751	784	649
10 D	807	1050	1028	815	768	496	351	223	301	114	275	460	339	201	577	673	72p	764	759	760	772	816	880	860	617
11	791	923	887	885	729	604	563	348	565	646	544	463	717	660	681	592	540	694	701	699	759	798	837	831	686
12 D	928	923	887	757	785	833	647	286	514	295	208	596	489	445	629	768	730	738	707	791	768	761	777	767	668
13	791	774	792	776	810	765	634	591	644	718	681	658	760	778	742	757	683	702	772	777	776	792	799	792	740
14	847	860	772	761	761	746	700	504	598	251	356	543	529	473	594	751	765	769	738	755	785	811	793	833	679
15 D	777	763	773	772	773	779	373	668	567	574	634	364	229	637	680	659	681	699	737	737	739	781	816	839	669
16	789	802	814	818	808	824	681	518	676	521	559	476	701	707	758	613	754	742	738	744	757	761	772	779	713
17	772	776	792	809	795	790	776	751	773	760	667	674	678	691	706	721	735	734	698	721	737	768	776	767	744
18	778	768	777	792	799	792	786	762	592	586	675	731	729	772	775	765	762	753	722	725	737	772	773	750	745
19	773	773	774	783	825	816	803	734	657	606	435	633	618	600	756	730	698	682	684	735	839	765	754	773	719
20	769	793	779	775	800	789	734	633	604	626	779	691	602	711	761	766	768	754	760	750	751	773	800	831	742
21	814	801	802	794	791	722	691	743	785	777	769	716	711	747	783	773	750	735	701	725	732	754	763	761	756
22	769	769	781	801	807	854	750	716	725	736	763	708	725	761	776	767	759	747	742	745	747	755	761	761	759
23	760	769	768	781	776	776	806	764	730	776	697	593	714	741	730	742	745	721	715	725	721	753	768	778	744
24	793	835	810	807	782	770	769	770	753	688	730	769	761	761	784	793	780	771	761	758	758	760	760	759	770
25	765	770	783	786	783	782	789	788	786	785	784	785	773	773	777	778	765	751	746	747	747	758	765	765	772
26 Q	769	770	776	778	785	785	791	794	777	792	789	783	785	783	778	777	772	765	759	760	760	765	768	768	776
27 Q	770	777	783	785	785	788	790	792	791	793	793	793	794	793	789	789	780	774	765	761	763	765	769	769	781
28 Q	777	785	788	788	787	789	788	789	794	795	796	796	795	793	789	785	781	773	766	765	765	773	772	773	783
29 Q	782	784	786	786	788	793	793	793	793	793	797	793	793	791	793	788	771	757	750	754	761	765	769	772	781
30 Q	782	786	786	786	788	788	788	788	788	786	786	786	793	791	780	764	755	753	761	765	769	774	776	781	779
31	781	785	788	792	800	793	799	800	793	803	807	796	796	792	793	789	781	769	758	765	769	773	779	777	787
Mean	793	809	814	807	797	780	717	672	683	630	648	663	677	686	723	733	737	737	729	742	755	772	784	789	737

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 38 Meanook

D = 24° E + ...'

October 1947

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	51.0	51.2	53.5	52.4	68.2	59.7	59.5	52.4	64.8	65.9	66.9	65.8	63.5	66.8	71.0	73.3	76.1	72.7	69.6	71.2	58.2	53.1	52.4	51.8	62.1
2 D	60.3	55.2	56.2	42.1	37.0	44.1	39.3	48.5	58.4	51.6	74.9	76.1	76.1	62.3	76.6	63.7	64.6	71.2	75.5	55.4	65.2	68.7	70.7	62.0	60.7
3	70.1	64.4	57.0	50.4	55.9	65.6	63.9	57.2	39.6	51.1	78.4	78.2	70.3	72.0	70.6	75.1	74.1	70.5	60.4	58.9	56.1	54.2	54.0	52.1	62.5
4	57.3	55.5	56.8	57.9	56.3	58.8	59.5	61.8	67.5	62.4	65.3	66.1	66.7	69.4	75.2	76.0	74.4	70.8	63.1	61.2	58.3	57.3	57.3	57.3	63.0
5	58.2	56.7	57.2	57.2	57.5	58.2	59.6	60.1	60.7	61.6	62.5	64.3	64.9	67.4	70.3	72.2	72.2	71.0	64.0	61.1	55.7	54.4	54.3	54.3	61.5
6	53.8	55.3	56.7	56.7	57.2	59.1	58.9	60.4	61.4	62.9	61.6	59.6	62.0	64.0	65.4	68.7	71.2	71.7	68.8	65.5	62.5	57.7	54.9	54.6	61.3
7	56.7	57.2	57.2	57.7	57.8	58.2	58.4	60.4	61.7	73.2	72.0	64.6	62.3	63.0	66.1	70.0	76.9	79.4	63.0	56.7	57.9	54.6	54.7	53.9	62.2
8	55.2	56.6	57.7	55.8	56.4	57.5	60.2	63.9	66.3	70.0	60.5	64.4	60.0	60.0	64.2	62.5	65.1	67.8	58.4	59.5	59.5	59.2	56.6	58.7	60.7
9 D	56.5	55.7	61.8	50.8	60.8	60.9	63.8	66.5	68.4	56.0	84.8	96.3	79.7	96.6	63.0	72.1	69.2	73.3	61.9	55.5	50.2	57.3	60.1	60.4	65.9
10 D	61.6	57.5	57.8	60.4	56.6	35.3	43.2	63.5	58.9	76.9	78.9	79.6	83.1	85.4	77.0	61.8	68.6	61.0	60.4	62.2	60.6	59.4	56.3	53.8	63.3
11	56.7	55.1	64.7	59.4	58.5	52.5	58.0	52.4	68.5	68.1	74.0	62.3	66.3	76.8	68.1	71.3	55.6	50.7	54.5	50.5	57.5	64.4	60.4	57.7	61.0
12 D	55.6	58.7	57.8	58.7	58.5	59.2	90.3	88.8	75.3	72.4	81.9	80.7	85.1	71.8	67.2	71.7	69.6	62.3	65.2	63.4	56.3	58.4	59.5	60.9	67.9
13	57.8	59.2	64.8	57.5	57.2	61.2	71.8	59.2	57.1	59.6	61.5	56.3	58.3	61.1	58.2	60.9	63.5	58.5	53.6	57.2	56.6	59.5	62.3	58.0	59.6
14	53.6	58.2	58.9	60.2	59.4	68.7	88.6	72.3	66.0	73.2	92.3	87.5	69.9	60.5	53.4	67.4	68.9	63.5	61.5	58.5	63.9	55.5	51.7	54.6	65.3
15 D	61.4	60.1	58.6	58.9	71.8	59.7	56.5	63.3	65.0	63.9	68.5	82.8	80.2	85.9	68.6	59.4	57.9	63.3	59.4	57.3	55.7	58.2	59.4	62.3	64.1
16	59.4	52.7	61.2	67.3	59.4	63.3	57.3	69.1	63.9	62.2	66.0	67.7	61.0	70.6	70.2	63.8	62.1	60.0	59.0	59.6	58.9	59.6	60.0	60.4	62.3
17	61.4	60.5	59.3	61.2	62.3	58.9	55.4	61.1	57.7	62.3	61.4	63.3	72.5	66.8	63.3	67.2	60.9	63.3	61.2	52.2	53.0	57.0	59.2	60.5	60.9
18	59.2	59.8	60.0	64.7	67.3	59.3	59.3	62.9	71.7	76.7	67.4	62.1	60.8	68.1	66.8	65.6	61.2	60.9	58.4	54.7	49.4	54.5	57.6	58.2	61.9
19	57.6	59.5	58.9	58.7	64.9	58.1	60.1	57.0	69.3	77.8	96.4	83.8	81.2	63.1	65.6	65.9	62.0	55.6	54.4	59.8	56.2	54.2	55.4	59.4	64.0
20	60.1	59.1	61.9	61.1	57.5	60.2	71.2	60.8	71.2	71.4	65.8	69.3	69.3	63.5	64.5	68.8	57.8	62.5	56.7	60.6	59.4	58.3	55.9	60.6	62.8
21	57.3	52.0	53.9	60.7	60.7	58.8	66.1	61.3	60.7	61.2	62.2	61.3	57.6	64.6	66.7	69.9	68.6	66.0	59.7	56.3	56.3	56.8	57.3	57.9	60.6
22	57.9	57.1	57.0	56.6	58.4	56.9	60.8	64.7	68.1	71.4	65.6	62.5	69.7	67.1	68.5	69.9	69.5	67.1	63.5	60.8	58.9	58.2	58.0	58.2	62.8
23	59.1	57.1	57.1	58.1	57.9	62.6	58.0	57.9	64.8	68.6	64.9	82.9	72.5	72.0	70.1	64.8	64.8	64.3	54.3	56.2	55.7	57.1	59.9	58.2	62.5
24	56.7	57.1	57.0	57.8	58.9	59.3	61.0	60.1	63.9	75.0	70.7	64.8	63.4	62.0	65.4	68.5	69.6	68.2	62.2	60.9	59.0	56.9	56.8	57.3	62.2
25	56.3	57.9	58.2	58.2	59.2	58.7	58.6	59.9	60.3	62.5	63.5	65.0	63.2	61.8	63.3	65.9	69.8	68.0	64.0	59.5	56.4	56.3	56.5	57.7	60.9
26 Q	57.0	58.2	58.3	58.7	58.6	58.2	57.0	61.1	61.6	63.6	62.8	62.5	63.6	64.7	66.3	67.3	67.1	67.9	61.6	60.6	59.0	59.0	58.8	58.7	61.3
27 Q	58.8	58.6	58.8	59.5	59.8	59.4	59.7	60.2	61.0	62.2	63.1	63.4	63.3	64.6	66.8	68.8	69.9	68.9	64.6	62.0	60.7	60.2	59.3	58.3	62.2
28 Q	57.4	57.4	58.9	59.3	59.3	59.4	59.5	59.8	60.3	60.8	61.8	62.3	62.8	63.2	65.0	66.6	67.8	67.7	64.2	62.3	60.4	59.8	59.2	57.9	61.4
29 Q	60.4	60.9	60.9	60.9	61.3	62.2	62.2	62.5	62.7	65.0	65.5	65.5	65.5	68.4	67.3	69.8	74.2	71.9	63.2	57.0	56.8	57.5	59.3	58.5	63.3
30 Q	60.3	60.0	60.7	61.0	61.4	62.2	62.6	62.8	63.3	64.6	64.0	65.1	65.3	66.0	67.9	69.9	72.0	64.6	62.0	60.5	60.3	59.6	60.7	60.3	63.2
31	59.4	58.9	58.9	58.4	57.4	59.8	64.1	59.6	61.2	68.9	65.3	64.9	65.4	64.1	66.0	68.8	69.7	66.1	63.5	61.7	60.1	57.8	57.7	55.6	62.2
Mean	58.2	57.5	58.6	58.0	59.1	58.6	61.4	61.7	63.3	65.9	69.4	69.4	67.9	68.2	67.1	68.0	67.6	66.2	61.7	59.3	57.9	57.9	57.9	57.7	62.4

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

Table 39 Meanook

$z = 58,500 \gamma +$

October 1947

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	565	579	600	493	401	594	567	342	547	571	572	520	553	567	565	571	565	553	544	545	553	579	640	612	550	
2 D	605	600	497	389	584	564	476	530	593	546	492	476	373	379	350	386	412	567	625	638	643	665	632	605	526	
3	492	594	546	427	392	511	583	570	616	615	621	643	594	546	594	584	570	557	553	551	557	578	584	585	561	
4	573	578	582	580	584	594	585	567	545	534	526	546	557	565	560	562	559	551	544	537	546	547	567	573	561	
5	558	561	560	556	565	569	557	564	556	547	534	545	549	556	557	556	548	546	545	550	557	559	566	569	555	
6	560	556	555	557	564	563	559	556	554	540	545	515	525	535	545	548	554	555	550	556	566	568	566	566	552	
7	558	557	555	554	557	557	559	555	545	377	438	524	543	555	557	557	548	539	527	544	553	581	570	565	541	
8	559	560	554	567	601	597	590	552	500	403	504	495	485	476	487	540	546	549	543	556	540	548	556	560	536	
9 D	562	623	628	652	610	489	413	489	527	629	645	764	672	419	413	538	562	548	675	678	667	663	659	678	592	
10 D	683	682	704	686	581	507	590	628	865	710	547	773	742	450	370	439	580	650	633	648	677	691	706	671	634	
11	650	655	656	628	510	537	515	640	454	511	576	575	580	479	515	557	515	565	615	628	668	693	720	709	590	
12 D	697	638	680	630	644	601	307	513	638	586	531	556	433	539	519	607	627	638	649	697	674	650	648	660	598	
13	661	656	659	641	635	588	482	546	565	578	574	543	590	607	610	612	614	615	652	643	648	675	678	680	615	
14	691	717	664	643	634	569	540	592	561	546	482	536	561	383	408	542	613	609	637	680	727	732	683	702	602	
15 D	649	630	627	640	641	599	593	577	630	545	517	652	323	426	556	573	560	577	612	627	625	647	673	679	591	
16	649	649	655	601	646	623	394	553	557	498	482	590	556	547	590	527	582	601	606	617	618	622	622	627	584	
17	629	640	640	654	646	638	616	594	602	602	492	481	446	494	559	590	604	605	636	636	621	620	619	613	595	
18	611	609	619	620	611	619	616	571	469	479	564	566	560	558	556	576	588	598	601	614	627	636	631	621	588	
19	625	617	610	621	616	612	621	529	421	400	446	508	528	524	560	535	556	545	582	637	690	648	626	620	570	
20	614	633	621	610	621	601	433	347	535	465	567	524	449	470	546	584	600	600	597	614	616	640	633	654	566	
21	619	646	673	661	614	538	530	522	587	596	587	543	528	549	584	587	582	587	599	601	599	600	602	605	589	
22	596	607	612	612	616	611	519	541	492	519	540	487	482	535	566	581	587	588	582	589	598	600	601	603	569	
23	596	598	585	587	592	583	618	581	539	529	516	421	463	473	471	539	546	576	587	611	615	608	600	613	560	
24	633	676	628	643	617	592	584	584	567	455	514	530	549	557	574	584	581	586	578	579	579	589	594	584	582	
25	586	587	589	587	581	581	581	575	560	568	564	564	557	554	564	571	571	568	573	576	575	575	575	575	573	
26 Q	576	574	574	575	576	581	577	575	581	580	577	576	571	568	570	576	576	572	571	571	570	571	571	571	574	
27 Q	566	566	566	566	566	566	565	565	566	566	564	564	566	566	566	571	571	571	567	565	571	571	571	566	567	
28 Q	566	567	566	566	566	566	565	566	566	566	566	566	566	566	567	572	578	578	572	572	569	561	559	561	567	
29 Q	561	563	561	563	561	561	561	561	561	561	561	561	561	557	557	560	561	561	561	560	557	562	562	561	565	561
30 Q	563	565	563	563	563	563	563	563	563	562	562	562	562	563	565	563	562	549	555	561	561	561	561	566	562	
31	563	563	562	565	573	574	570	573	564	552	586	572	562	560	555	555	564	566	568	573	573	577	569	568	567	
Mean	601	608	603	588	580	576	543	549	562	540	542	557	538	520	534	556	567	576	588	599	605	610	611	610	573	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40 Meanook

October 1947

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$		Maximum 24° East +		Minimum 24° East +		Range '		Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$				
	h. m.	$\gamma$	h. m.	$\gamma$			h. m.	'	h. m.	'			h. m.	$\gamma$	h. m.	$\gamma$			h. m.	$\gamma$	$\gamma$
1	03	40	1093	07	44	470	623	09	46	93.8	07	45	26.6	67.2	22	40	660	07	35	101	559
2 D	02	35	1043	06	42	049	994	14	45	109.7	06	48	-13.1	122.8	04	48	727	14	17	<u>087</u>	640
3	00	33	1184	09	52	-22	<u>1206</u>	10	49	104.7	09	02	-01.1	105.8	08	28	785	04	35	188	597
4	06	40	836	09	37	644	192	16	12	80.1	06	43	48.6	31.5	05	08	611	09	54	497	114
5	11	25	796	19	54	710	86	15	20	<u>76.1</u>	22	00	48.0	28.1	22	02	577	10	43	527	50
6	12	56	793	19	47	709	84	16	50	75.0	23	06	52.8	22.2	23	09	575	11	31	480	95
7	11	55	803	09	16	437	366	09	41	90.6	23	41	50.1	40.5	21	53	598	09	17	531	67
8	04	38	849	09	11	488	361	09	21	82.0	04	07	50.3	31.7	04	32	635	09	07	308	327
9 D	03	54	991	12	40	137	854	13	11	149.2	06	15	-21.0	170.2	12	10	921	06	10	219	702
10 D	02	26	<u>1195</u>	07	30	-07	1202	09	46	<u>156.0</u>	05	45	-17.4	<u>173.4</u>	09	04	<u>1003</u>	10	12	218	<u>785</u>
11	01	47	1087	07	37	117	970	08	25	117.7	06	26	24.7	93.0	07	47	792	07	34	281	511
12 D	01	42	1114	09	45	122	992	10	30	117.3	09	08	39.9	77.4	09	18	762	06	55	201	561
13	22	18	845	07	35	458	387	06	30	108.9	07	46	38.0	70.9	07	41	713	06	50	294	419
14	01	15	951	09	51	-137	1088	07	30	117.2	09	45	06.5	110.7	07	21	773	13	15	292	481
15 D	23	19	884	12	13	<u>-162</u>	1046	12	16	120.3	06	27	<u>-37.2</u>	157.5	11	55	879	12	26	239	640
16	02	36	874	07	12	310	564	03	15	81.2	07	07	-26.9	108.1	11	25	714	06	55	226	488
17	03	35	820	11	10	616	204	12	20	82.6	19	36	46.1	36.5	03	24	670	13	17	424	246
18	04	13	816	08	54	168	648	09	03	93.0	20	32	43.6	49.4	22	06	649	09	14	359	290
19	04	26	881	10	40	296	585	10	14	117.3	07	49	42.6	74.7	20	55	813	10	13	293	520
20	06	12	913	09	01	409	504	06	20	93.0	07	46	44.3	48.7	21	31	670	07	26	230	440
21	00	00	870	06	19	593	277	06	43	81.2	06	35	45.9	35.3	02	41	692	06	15	450	242
22	05	45	890	11	40	621	269	08	47	80.6	06	30	44.2	36.4	04	46	634	12	00	387	247
23	06	03	842	11	06	513	329	11	25	99.6	06	11	45.0	54.6	06	28	638	11	24	368	270
24	01	16	880	09	28	637	243	09	57	80.6	01	32	51.7	28.9	01	15	703	09	13	401	302
25	07	49	800	18	01	736	64	16	07	72.0	07	35	53.4	18.6	01	56	598	13	27	535	63
26 Q	06	48	808	19	43	754	54	17	30	68.6	06	44	43.8	24.8	07	40	599	06	50	524	75
27 Q	10	48	800	20	35	758	42	16	47	70.6	23	17	57.3	13.3	15	36	574	10	27	557	<u>17</u>
28 Q	11	00	798	20	30	758	<u>40</u>	17	02	68.4	01	17	56.5	<u>11.9</u>	16	45	578	22	24	557	21
29 Q	12	25	804	18	10	723	81	16	27	75.8	20	10	55.8	20.0	21	45	572	12	30	543	29
30 Q	09	00	806	18	30	749	57	16	11	76.6	00	37	58.7	17.9	06	41	575	18	17	546	29
31	09	53	820	19	04	750	70	16	42	75.0	23	18	51.8	23.2	10	21	595	09	00	524	71
Mean			896			432	464			94.0			32.6	61.4			686			367	319
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 1947

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	774	781	789	789	789	789	797	766	797	793	785	765	777	793	796	789	781	773	765	765	774	777	757	769	780	
2	781	775	776	792	788	788	788	787	788	779	787	791	788	790	788	782	772	764	757	764	765	772	771	772	779	
3 Q	774	782	785	788	788	789	789	793	796	793	789	769	804	796	793	789	781	765	758	754	757	765	769	765	780	
4	769	777	785	789	794	793	793	789	793	793	789	734	765	774	785	726	758	754	758	758	758	758	765	769	772	
5 Q	780	780	781	784	782	780	784	784	787	788	788	788	788	791	788	788	780	772	762	768	773	772	776	780	781	
6 Q	776	784	784	788	788	788	788	788	788	790	792	792	792	788	785	785	782	780	768	768	764	764	768	774	782	
7 Q	783	787	791	792	787	791	792	794	798	795	797	798	795	791	794	791	783	775	767	768	779	783	787	775	787	
8 D	796	805	796	803	810	810	756	774	703	512	632	694	732	767	774	774	779	772	763	752	759	770	783	794	755	
9 D	799	804	802	811	807	795	769	694	698	411	632	599	-08	058	038	464	757	729	725	764	912	1061	1130	1174	684	
10 D	1059	1105	903	786	802	779	747	684	582	590	515	542	550	578	614	762	716	692	723	743	770	841	836	962	745	
11 D	955	977	822	786	771	764	785	817	716	645	626	478	490	472	455	513	532	554	724	739	777	790	774	778	698	
12	802	843	831	855	820	785	784	774	613	668	769	773	765	731	718	754	761	746	750	750	756	757	769	763	764	
13	778	786	813	790	790	796	786	766	751	747	599	661	786	784	771	770	755	751	732	739	753	764	776	763	759	
14	775	780	779	779	791	783	776	777	767	662	701	736	678	658	778	779	777	768	756	744	741	748	756	768	752	
15	776	783	775	798	810	794	779	752	638	767	803	791	787	780	779	787	780	772	756	752	756	768	771	767	772	
16	775	783	791	802	826	798	690	765	728	616	593	693	752	777	798	786	775	771	767	756	756	763	767	770	754	
17	786	793	797	801	793	786	784	779	776	766	645	719	801	805	804	800	786	779	769	762	762	766	771	779	775	
18	782	778	779	784	792	793	792	774	736	801	800	800	793	772	777	762	774	779	766	756	754	762	766	774	777	
19 D	786	799	793	786	804	759	604	586	475	489	460	571	759	724	748	742	762	764	755	734	718	760	771	773	705	
20	770	777	773	774	777	781	785	798	777	770	739	703	777	785	789	777	773	767	750	757	765	761	753	769	769	
21	779	783	784	787	791	794	806	787	778	764	794	794	787	767	746	771	764	749	749	752	755	749	759	767	773	
22	775	780	787	794	801	798	801	798	791	783	771	671	756	752	791	794	772	756	755	756	759	759	767	771	772	
23	780	780	780	780	780	784	772	733	702	781	788	795	795	788	781	772	780	784	764	764	764	764	771	772	773	
24	787	792	792	795	795	795	792	788	792	781	779	799	802	797	795	795	788	786	765	728	718	757	776	780	782	
25	788	788	785	788	799	827	819	834	795	760	714	795	795	788	784	780	772	773	768	767	768	773	777	781	784	
26 Q	787	787	790	792	795	795	795	795	802	799	792	788	780	779	781	788	780	779	764	764	768	771	776	785	785	
27	784	785	788	788	795	803	795	811	795	796	795	795	792	788	788	788	781	776	772	784	784	792	793	793	790	
28	797	797	793	793	797	793	793	788	793	786	790	790	786	786	782	784	784	781	773	773	784	787	788	792	788	
29	800	796	800	797	843	807	807	785	777	758	789	804	796	795	785	773	781	774	773	765	765	765	769	777	787	
30	785	785	789	789	796	798	796	793	796	793	789	793	796	796	796	789	785	777	761	746	751	770	774	780	784	
31																										
Mean	798	805	794	793	797	791	778	772	744	726	728	734	735	735	740	758	765	759	757	756	766	780	786	795	766	

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 42 Meanook

D = 24° E + ...'

November 1947

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	58.3	57.8	59.1	59.1	59.3	59.6	60.3	55.7	59.3	61.3	64.2	63.4	59.1	63.9	65.2	67.4	66.3	63.6	63.9	61.7	60.2	58.4	58.8	57.7	61.0	
2	57.2	55.9	59.8	58.5	58.7	59.3	58.7	61.2	60.4	61.9	63.3	62.0	63.0	63.3	64.7	66.6	67.1	66.2	62.7	61.9	60.6	59.8	60.1	59.3	61.3	
3 Q	59.8	59.3	59.3	59.6	59.9	60.5	60.7	60.7	61.4	62.0	64.3	66.7	66.6	64.6	65.3	68.2	67.0	67.5	61.5	59.0	58.6	59.3	56.9	55.2	61.8	
4	56.0	58.7	59.0	60.0	60.6	61.0	61.0	61.1	60.3	61.9	63.9	60.3	61.8	63.5	61.3	59.4	63.2	65.9	62.8	60.5	60.2	59.5	58.7	58.9	60.8	
5 Q	58.5	58.6	60.7	60.1	60.5	61.1	60.8	60.7	60.9	62.1	62.5	62.9	62.7	62.9	64.0	65.1	66.5	64.6	63.8	61.9	60.9	60.4	59.5	58.7	61.7	
6 Q	59.2	59.2	59.9	60.2	60.1	60.9	60.8	60.8	61.0	61.2	61.3	62.0	62.1	62.8	63.9	64.9	65.9	65.5	63.7	61.2	60.2	59.6	58.6	57.9	61.4	
7 Q	57.2	57.9	59.1	59.3	59.9	60.3	60.5	60.2	60.2	61.7	62.0	62.5	63.1	63.9	64.4	64.8	67.3	63.0	60.3	58.9	57.8	58.1	57.7	57.3	60.7	
8 D	56.5	55.8	58.6	57.2	61.2	61.2	69.8	66.2	65.7	49.6	57.4	71.5	71.7	73.7	67.1	57.9	55.1	56.3	57.8	57.7	58.7	59.2	57.3	58.0	60.9	
9 D	60.3	61.7	63.4	62.7	61.7	77.2	64.6	57.4	64.6	65.4	87.8	82.1	77.3	61.2	63.5	53.2	57.5	53.5	53.1	64.3	84.2	92.0	84.8	73.7	67.8	
10 D	63.9	62.5	61.2	62.9	60.7	75.1	64.6	54.9	51.4	74.5	80.3	81.2	75.0	79.1	66.1	66.6	67.8	61.2	59.5	61.4	69.9	74.8	66.1	65.2	66.9	
11 D	60.8	58.5	62.7	62.7	60.8	59.3	68.6	71.2	62.2	56.9	66.5	84.4	86.5	75.5	32.0	58.9	58.9	42.7	59.7	58.0	61.8	61.7	62.2	62.2	62.3	
12	58.9	60.3	67.6	64.6	65.3	63.3	70.5	65.6	58.5	63.3	61.7	64.3	63.7	62.8	60.3	65.3	65.6	67.5	64.2	63.5	62.0	61.2	59.8	61.0	63.4	
13	60.2	58.8	69.9	63.1	65.0	60.4	63.1	57.2	58.2	63.4	58.4	50.9	66.2	67.5	67.3	66.9	66.9	64.0	61.8	61.7	61.3	60.4	59.4	60.6	62.2	
14	60.9	60.9	60.8	61.4	64.0	61.6	61.6	63.5	60.6	54.1	60.0	67.9	72.7	70.8	69.3	66.5	63.0	62.1	59.5	59.5	56.9	56.8	57.2	59.4	62.1	
15	59.7	58.9	60.1	61.5	62.0	61.5	61.3	59.7	43.6	60.8	62.2	63.5	64.6	64.6	63.1	66.0	69.9	66.0	63.5	60.1	59.1	58.6	59.3	58.6	61.2	
16	59.1	58.9	59.3	64.6	63.9	66.9	56.7	64.7	67.4	72.6	66.3	60.6	70.7	66.5	65.7	65.7	63.8	66.3	66.8	64.7	62.4	60.1	59.0	58.7	63.8	
17	59.0	58.8	60.6	62.8	62.6	61.7	60.9	61.2	63.8	63.8	56.6	65.6	65.2	64.6	65.6	65.9	65.9	66.8	65.8	64.0	61.9	60.4	59.7	60.0	62.6	
18	60.5	59.9	60.3	60.8	59.9	60.3	60.8	64.1	69.5	65.2	60.7	61.0	63.0	62.9	63.9	61.8	62.9	64.9	59.3	59.7	59.1	58.1	59.7	58.7	61.5	
19 D	58.7	59.5	60.5	59.1	64.8	59.5	57.0	63.0	63.0	51.5	74.0	76.0	67.1	67.1	62.3	63.0	62.3	57.3	58.8	60.2	55.9	55.4	56.9	58.4	61.3	
20	59.6	59.7	58.9	60.7	60.5	60.0	59.9	59.7	59.2	62.5	61.6	62.6	61.6	63.4	64.3	64.5	65.4	64.0	61.1	59.2	58.5	59.8	58.1	57.3	60.9	
21	57.7	58.2	58.6	59.8	58.5	62.1	58.7	58.2	57.7	59.9	59.7	61.9	64.5	62.6	63.2	67.4	68.2	64.0	54.8	57.9	58.2	58.5	60.6	60.2	60.5	
22	59.6	59.6	59.4	58.6	58.2	58.6	60.0	59.6	59.6	60.3	59.5	62.5	67.5	68.5	64.9	64.2	68.7	63.4	58.6	59.7	59.7	60.5	59.6	59.1	61.2	
23	58.6	58.9	59.0	58.4	59.0	57.5	59.5	73.0	69.2	63.3	62.4	62.6	62.2	63.2	63.3	63.5	64.0	65.5	62.3	61.6	60.4	57.5	57.8	57.7	61.7	
24	57.3	56.5	56.8	57.8	58.8	60.1	59.5	59.8	60.8	61.3	61.4	61.8	62.7	62.7	63.1	64.4	65.6	64.2	69.0	64.7	54.5	49.2	51.7	52.8	59.9	
25	54.4	56.5	58.5	59.4	60.2	59.7	60.3	64.1	64.3	66.0	75.5	68.9	64.6	64.0	64.1	65.1	64.1	63.1	62.2	61.3	58.3	57.1	57.3	56.6	61.9	
26 Q	57.3	58.1	58.2	58.8	59.4	60.3	59.3	59.7	60.7	58.8	60.4	62.0	62.3	62.4	63.8	65.3	65.9	64.5	61.7	60.0	56.3	55.4	55.4	53.5	60.0	
27	53.7	58.2	60.1	60.6	60.2	58.7	57.7	55.3	58.2	59.3	60.5	62.1	62.1	62.0	62.8	64.0	65.9	64.5	65.1	59.6	57.4	56.1	57.1	58.2	60.0	
28	59.3	58.2	60.0	60.5	60.0	60.0	60.0	60.7	61.4	60.5	62.3	62.3	62.3	63.2	63.0	65.3	64.1	62.1	61.6	60.0	57.6	57.6	57.1	57.9	60.7	
29	57.4	57.5	58.1	54.9	55.5	57.8	59.4	57.5	57.4	55.4	60.0	61.5	62.3	61.6	63.2	62.3	60.3	64.2	58.8	57.2	56.5	56.8	58.0	58.8	58.8	
30	59.8	59.6	59.7	59.1	58.9	58.1	55.8	57.5	58.9	59.6	61.5	60.3	61.5	62.0	62.7	64.4	64.6	65.1	59.4	56.8	54.2	54.3	56.7	55.0	59.4	
31																										
Mean	58.6	58.8	60.3	60.3	60.7	61.5	61.1	61.1	60.6	61.3	63.9	65.2	65.9	65.2	63.1	64.2	64.7	63.0	61.4	60.6	60.1	59.9	59.4	58.9	61.7	

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

Table 43 Meanook

$z = 58,500 \gamma +$

November 1947

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	565	568	567	568	568	573	567	527	546	570	565	536	546	540	561	564	562	562	569	575	573	577	568	569	562	562	
2	575	579	588	600	609	578	566	577	566	557	554	565	565	563	566	568	572	575	580	585	577	568	566	566	574	574	
3 Q	565	564	564	564	565	565	564	565	564	564	549	490	553	565	566	565	565	560	568	571	576	578	584	586	563	563	
4	592	581	571	562	564	564	560	562	560	558	548	472	506	517	525	511	533	554	554	562	564	571	573	567	551	551	
5 Q	566	572	576	579	576	570	559	560	558	563	559	565	564	563	570	573	570	566	569	574	573	565	566	564	568	568	
6 Q	563	562	562	561	562	562	565	563	563	563	562	562	557	557	563	564	563	562	568	569	568	563	563	562	563	563	
7 Q	561	561	561	560	560	560	562	561	560	561	560	560	558	558	559	560	562	562	561	566	566	566	566	560	566	561	
8 D	571	578	585	593	606	598	496	546	518	437	400	452	471	484	517	525	549	549	574	574	587	593	598	618	542	542	
9 D	616	621	605	600	580	541	562	492	469	337	416	329	637	449	616	351	508	525	570	594	639	599	497	522	528	528	
10 D	532	444	619	613	606	502	488	510	447	425	417	475	553	542	525	563	563	573	581	582	614	663	670	678	549	549	
11 D	687	675	666	622	599	587	539	437	547	585	507	531	495	454	331	363	450	498	590	586	609	604	599	612	549	549	
12	611	648	604	494	621	607	549	538	508	507	571	573	562	530	517	540	556	566	589	586	587	583	593	589	568	568	
13	596	604	617	592	604	603	562	517	492	506	420	452	551	559	555	561	569	572	581	587	578	573	573	570	558	558	
14	571	571	570	569	559	561	561	529	545	398	433	492	450	454	486	530	542	574	583	582	579	580	579	580	537	537	
15	585	589	592	601	588	571	559	532	336	450	552	570	562	556	559	579	567	568	570	584	580	580	579	576	558	558	
16	585	588	615	620	595	508	460	523	512	455	479	505	502	533	546	547	557	561	573	579	580	578	579	580	548	548	
17	577	579	587	597	583	571	572	540	524	512	413	446	545	560	555	551	551	553	557	561	566	566	565	565	550	550	
18	561	566	572	572	567	565	567	497	432	539	554	556	551	536	522	526	520	530	540	551	562	558	578	573	546	546	
19 D	568	579	579	578	565	529	505	489	526	510	550	451	518	508	521	534	555	566	578	585	595	596	594	588	549	549	
20	581	582	581	573	570	569	570	565	565	562	529	497	557	562	563	564	562	565	565	571	572	576	581	577	565	565	
21	578	575	578	585	597	600	603	566	555	518	531	562	554	529	482	510	542	551	558	559	570	564	565	562	558	558	
22	563	564	564	571	581	581	585	570	568	554	542	445	484	474	489	542	554	544	559	565	565	565	562	564	548	548	
23	563	564	564	565	564	561	542	470	459	558	558	567	564	556	557	538	541	551	564	564	569	569	562	558	551	551	
24	559	559	557	563	564	563	560	551	544	536	513	540	548	549	549	552	552	547	550	546	557	563	564	566	552	552	
25	571	569	563	561	570	594	568	594	574	533	482	536	556	555	551	551	551	550	552	554	555	554	553	553	556	556	
26 Q	555	553	553	554	554	554	559	563	565	551	559	552	542	540	545	547	550	549	552	552	553	555	556	559	553	553	
27	561	566	560	561	562	571	571	562	562	555	549	548	545	545	544	546	547	547	547	548	548	547	545	545	553	553	
28	551	553	553	550	556	559	554	558	559	554	551	548	546	540	541	545	545	545	538	546	548	549	549	548	549	549	
29	546	545	546	559	613	586	586	538	526	521	537	551	543	540	532	537	537	537	537	548	548	545	549	552	553	549	
30	552	547	547	547	557	558	542	536	552	549	542	543	538	542	544	542	542	542	547	547	552	558	558	557	548	548	
31																											
Mean	574	574	579	574	579	567	553	538	527	520	517	516	541	532	535	535	548	553	564	568	574	574	571	572	554	554	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44 Meanook

November 1947

Day	Horizontal Intensity						Declination						Vertical Intensity					
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range			
	12,000 $\gamma$ +		12,000 $\gamma$ +			24° East +		24° East +			58,500 $\gamma$ +		58,500 $\gamma$ +					
h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$	h. m.	'	h. m.	'	'	h. m.	$\gamma$	h. m.	$\gamma$	$\gamma$				
1	13 16	824	07 45	713	111	13 20	70.7	07 40	46.5	24.2	08 40	594	07 46	463	131			
2	03 20	813	18 05	756	57	02 59	70.3	03 27	51.9	18.4	04 21	621	10 07	530	91			
3 Q	12 04	806	11 12	733	73	15 20	70.9	23 39	51.8	19.1	23 48	592	11 16	453	139			
4	14 40	798	11 31	695	103	16 44	68.8	00 14	53.3	15.5	00 34	600	11 33	438	162			
5 Q	11 20	795	18 40	760	35	16 30	67.5	22 59	56.8	10.7	04 00	583	09 58	549	34			
6 Q	12 32	795	20 21	763	<u>32</u>	16 37	67.0	23 50	57.2	<u>09.8</u>	20 31	570	12 24	555	<u>15</u>			
7 Q	07 30	806	19 05	758	48	16 30	69.7	23 09	55.2	14.5	06 50	570	07 36	546	24			
8 D	06 07	839	09 33	299	540	11 27	81.3	09 34	23.1	58.2	23 35	628	09 44	303	325			
9 D	23 15	<u>1239</u>	12 40	<u>-264</u>	<u>1503</u>	11 57	<u>130.2</u>	13 40	<u>-10.1</u>	<u>140.3</u>	12 55	<u>1295</u>	09 23	179	<u>1116</u>			
10 D	00 01	<u>1339</u>	11 29	358	981	10 02	103.3	08 11	44.6	58.7	23 01	786	09 52	306	480			
11 D	01 00	1199	14 02	116	1083	14 08	99.2	13 37	<u>-39.5</u>	138.7	13 35	879	14 18	171	708			
12	03 11	944	08 42	465	479	03 05	99.9	03 07	18.7	81.2	02 03	686	03 05	<u>129</u>	557			
13	02 09	837	10 18	531	306	02 04	80.3	11 12	33.3	47.0	02 08	673	11 03	346	327			
14	15 09	815	13 24	576	239	12 47	77.6	09 33	44.7	32.9	22 01	594	09 45	317	277			
15	03 45	826	08 13	586	240	16 45	73.6	08 52	34.9	38.7	02 56	627	08 35	274	353			
16	04 35	856	09 50	506	350	09 48	86.4	06 08	26.1	60.3	02 53	638	06 07	271	367			
17	03 14	817	10 32	556	261	15 27	70.6	11 40	49.3	21.3	02 45	607	10 32	316	291			
18	09 32	809	08 33	696	113	08 50	77.7	21 18	55.9	21.8	02 05	583	08 35	383	200			
19 D	05 03	844	19 06	360	484	10 57	107.4	08 23	39.5	67.9	10 51	664	10 00	291	373			
20	07 10	810	12 08	664	146	16 25	68.4	07 55	51.9	16.5	02 07	593	11 10	466	127			
21	06 09	826	14 15	725	101	15 56	71.2	18 34	48.0	23.2	06 08	624	14 18	461	163			
22	06 03	806	12 18	588	218	12 35	72.9	11 04	53.8	19.1	06 14	592	11 12	398	194			
23	12 17	805	08 02	616	189	07 39	83.8	05 28	55.7	28.1	11 27	575	08 00	364	211			
24	12 03	804	20 00	695	109	18 05	74.8	20 44	44.0	30.8	22 20	581	10 12	498	83			
25	06 24	866	10 02	587	279	10 17	85.3	06 33	44.7	40.6	06 52	622	10 12	402	220			
26 Q	08 53	834	20 01	754	80	08 58	69.7	23 48	51.3	18.4	08 58	576	09 07	512	64			
27	07 22	831	18 37	764	67	16 43	67.5	07 45	48.4	19.1	07 50	579	13 25	540	39			
28	02 59	817	19 30	768	49	16 07	71.0	22 07	54.2	16.8	05 43	564	13 07	522	42			
29	04 17	860	09 15	722	138	17 43	68.4	03 58	46.6	21.8	04 39	640	07 43	492	148			
30	06 25	810	19 59	733	77	17 46	66.5	21 05	49.7	16.8	21 47	572	06 10	523	49			
31																		
Mean		869		586	283		79.1		41.4	37.7		644		400	244			
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 1947

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	786	772	790	797	797	797	790	790	786	498	697	813	805	803	797	793	787	782	770	762	766	774	782	787	772	
2	793	793	793	792	790	789	793	787	789	789	782	773	777	785	789	769	743	765	781	769	769	773	773	777	781	
3 Q	789	796	796	796	796	796	794	796	797	796	794	790	789	792	789	789	782	771	765	759	761	765	773	781	786	
4	792	795	795	795	795	795	799	795	792	788	802	803	795	795	789	772	768	780	768	764	765	768	772	784	786	
5	788	780	788	780	788	788	786	784	788	772	742	787	788	795	780	781	793	781	768	764	764	773	781	780	780	
6 D	831	873	982	943	834	807	779	760	687	640	523	663	422	499	638	765	776	734	640	694	765	768	760	788	732	
7	787	789	791	779	787	794	780	759	666	779	787	787	786	779	783	779	771	775	759	736	749	771	778	779	772	
8	780	786	779	786	791	783	748	794	795	787	778	728	759	783	798	794	787	777	767	766	771	775	780	787	778	
9 D	787	787	787	772	787	801	779	794	771	693	469	694	763	565	654	805	779	744	693	720	779	783	767	775	740	
10	791	798	814	802	791	787	717	740	736	678	560	791	791	775	787	794	794	787	779	766	769	767	767	772	765	
11	786	791	787	780	780	771	748	780	778	749	674	504	724	767	795	814	800	767	733	733	756	770	782	778	756	
12 D	779	794	787	822	833	794	787	798	775	736	700	627	518	769	793	756	685	744	740	767	775	779	771	768	754	
13 D	795	796	795	803	807	792	768	773	741	698	545	581	655	690	788	780	757	764	785	780	768	724	773	780	747	
14	780	781	788	795	803	795	764	536	686	586	554	601	718	686	710	760	788	764	769	764	764	771	780	780	730	
15	772	795	799	788	780	772	772	761	725	764	772	764	764	772	729	749	784	780	764	760	760	764	772	778	768	
16	787	787	787	784	787	801	787	778	763	749	600	732	802	794	794	794	793	787	775	769	764	767	772	779	772	
17 Q	787	791	794	791	789	785	783	783	783	772	774	780	783	785	798	805	798	798	778	769	767	769	777	779	784	
18	779	784	792	795	795	787	784	757	757	788	793	788	795	802	804	804	802	795	779	770	756	764	768	768	784	
19	777	789	789	781	780	777	779	781	766	703	711	773	787	796	796	797	805	796	789	773	765	769	773	780	776	
20 Q	781	788	792	795	788	785	788	788	780	780	776	780	784	792	801	796	803	792	780	776	772	772	776	785	785	
21 Q	792	795	799	799	796	795	795	795	795	799	795	796	799	799	797	795	791	780	772	771	774	776	780	788	791	
22	792	795	795	797	796	795	795	794	795	795	795	794	792	803	802	795	811	804	783	776	783	788	788	780	793	
23 D	787	784	783	788	795	811	858	799	803	796	804	807	785	793	776	795	792	792	781	773	776	776	780	788	793	
24	793	793	803	800	800	793	794	794	791	789	789	789	789	796	794	796	784	779	765	765	765	774	788	793	788	
25	796	801	804	800	804	804	803	797	796	789	800	797	793	793	796	796	788	780	765	773	789	789	789	796	793	
26	800	804	804	812	804	797	789	782	687	781	782	789	796	785	774	778	780	774	773	773	777	777	781	783	783	
27	783	790	795	800	803	824	831	839	839	835	835	825	816	800	782	781	773	765	769	765	773	776	778	773	798	
28	781	794	801	797	797	794	790	790	787	790	784	781	766	778	790	793	786	785	781	781	775	782	773	770	785	
29	789	796	796	803	796	796	796	796	796	796	793	782	773	754	730	687	725	779	775	772	777	781	773	780	787	776
30	789	789	793	796	796	796	793	795	795	796	796	796	789	789	796	800	794	785	781	781	788	789	789	789	792	
31 Q	793	793	796	796	796	796	797	796	796	789	796	800	803	800	800	800	796	788	788	780	782	785	800	794	794	
Mean	788	794	800	799	796	793	786	778	769	752	729	752	758	764	774	785	783	777	765	764	770	773	778	781	775	

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 46 Meanook

D = 24° E + ...'

December 1947

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	54.0	58.9	59.4	60.1	59.8	59.2	59.2	59.7	60.2	62.1	66.1	63.7	65.6	64.7	64.2	64.7	64.1	64.2	61.8	60.8	58.9	57.4	57.1	56.9	61.0
2	57.0	58.2	58.8	58.9	59.2	59.3	59.1	58.7	60.2	59.6	69.8	69.8	70.4	69.6	68.6	64.2	59.9	53.0	56.3	56.8	56.3	55.4	55.9	55.5	60.4
3 Q	56.9	57.5	57.7	58.6	59.1	57.6	58.9	60.2	58.6	57.9	58.9	59.8	60.6	61.4	61.7	62.5	64.0	64.4	62.1	59.1	57.7	57.2	56.3	56.9	59.4
4	57.2	57.6	56.6	57.6	58.6	58.7	58.4	57.6	57.7	57.4	58.0	59.5	61.6	60.0	60.5	60.6	56.1	54.7	57.1	56.8	55.8	56.6	56.5	55.2	57.8
5	55.1	57.0	57.8	62.3	62.1	58.8	60.2	58.0	61.0	62.1	64.1	63.4	65.2	64.3	57.8	58.7	64.4	60.9	60.8	58.5	55.6	55.6	56.0	54.4	59.8
6 D	54.8	51.6	43.5	61.9	63.5	60.2	59.2	60.0	59.4	71.7	76.3	78.8	57.2	61.3	58.9	53.6	59.7	60.1	49.8	48.6	51.5	55.6	55.6	55.6	58.7
7	57.4	59.2	59.8	60.1	59.9	67.1	62.0	58.8	56.6	58.0	60.0	60.1	61.3	58.6	57.9	59.8	61.7	55.5	55.0	56.4	55.1	55.4	56.4	57.6	58.7
8	58.3	58.2	59.0	58.9	59.2	58.6	74.7	62.0	57.5	58.3	59.7	58.1	57.5	61.6	60.2	62.1	63.6	61.1	59.8	56.9	56.3	56.4	57.3	57.8	59.7
9 D	58.2	58.6	58.5	59.1	59.5	64.7	62.6	58.6	58.4	62.8	65.4	60.6	72.5	73.4	59.1	64.0	63.0	58.7	52.0	44.2	53.8	55.2	56.2	57.0	59.8
10	57.6	59.0	63.9	60.0	58.6	58.9	50.2	58.1	61.6	67.5	51.1	69.1	64.5	64.7	59.1	64.4	63.4	64.6	61.4	59.0	57.9	56.1	54.4	54.7	60.0
11	56.0	57.2	58.0	58.9	61.0	62.3	58.1	57.1	58.9	59.7	59.1	72.3	72.5	70.7	61.8	60.9	62.7	57.0	48.8	50.0	55.9	58.0	57.5	57.3	59.7
12 D	57.9	57.7	56.9	62.2	59.0	56.8	58.8	67.3	60.8	58.0	58.9	61.2	72.3	64.6	63.6	61.9	52.8	48.1	47.0	52.8	54.0	54.8	56.1	56.4	58.3
13 D	56.9	57.4	57.9	65.1	59.4	58.8	59.0	62.2	65.1	66.5	62.7	74.1	65.6	55.9	58.0	52.9	55.0	53.0	57.9	56.8	56.6	55.8	57.3	57.9	59.5
14	58.8	58.8	60.8	64.1	63.8	60.0	64.4	54.5	68.3	71.9	59.2	57.7	73.8	65.4	54.6	48.4	56.8	59.9	60.8	55.9	54.5	55.0	57.7	56.9	60.1
15	56.3	62.1	58.7	61.6	64.5	62.8	60.8	60.2	58.1	57.8	59.8	57.6	59.2	58.7	56.8	50.5	61.6	62.6	60.7	56.8	55.9	54.7	55.8	57.2	58.8
16	56.8	56.9	57.9	57.9	60.7	59.9	58.2	60.2	60.7	60.5	50.8	54.9	60.7	60.7	60.5	60.8	61.4	61.6	60.2	59.0	58.5	57.6	57.5	56.7	58.8
17 Q	56.7	57.5	57.5	57.5	59.8	60.3	57.7	57.7	58.0	56.4	55.7	61.9	62.3	60.1	61.2	62.1	61.0	60.3	59.1	57.7	57.8	56.9	56.7	56.2	58.7
18	56.6	56.3	56.6	57.7	58.4	58.7	60.6	56.3	57.7	61.3	61.0	60.1	60.4	59.1	59.4	60.7	62.5	61.5	62.3	61.6	57.2	55.6	55.8	54.7	58.8
19	56.5	57.2	57.8	58.5	64.9	60.1	62.0	62.7	64.3	59.1	73.0	67.7	62.7	60.6	58.5	58.6	62.0	62.4	61.0	58.1	55.5	54.8	55.1	55.6	60.4
20 Q	56.7	57.1	58.3	58.1	58.0	58.3	63.4	60.7	58.5	61.9	61.5	61.4	60.6	61.3	61.4	61.4	63.5	61.4	59.3	58.5	56.5	55.6	56.6	56.6	59.4
21 Q	56.7	56.6	57.1	57.8	58.4	58.3	58.4	58.1	57.9	57.9	58.4	57.5	57.2	57.6	58.1	60.6	63.0	64.3	62.7	60.4	58.0	56.5	55.7	55.9	58.5
22	56.8	57.3	57.6	57.6	57.6	57.5	56.7	57.2	58.2	57.7	59.4	60.4	61.4	63.6	63.4	58.8	64.4	61.5	59.4	56.1	54.3	52.9	54.2	54.4	58.3
23 D	53.7	54.7	56.1	57.6	57.1	54.8	56.1	50.6	46.8	61.9	60.5	60.5	63.5	61.9	67.1	65.4	61.5	60.9	59.4	57.6	56.9	55.8	55.5	54.6	57.9
24	54.8	56.0	56.6	57.6	56.6	56.4	56.6	56.7	56.8	57.7	59.3	58.5	57.4	58.1	59.0	60.6	62.5	60.9	59.3	55.8	52.2	53.8	55.8	54.9	57.2
25	56.1	56.7	59.0	59.1	57.7	57.0	56.8	57.1	57.7	57.9	59.7	59.5	59.8	60.7	60.8	60.4	61.4	62.4	57.1	52.5	51.3	51.4	54.7	56.1	57.6
26	56.2	56.1	55.8	57.6	57.1	57.1	58.6	58.2	57.9	62.3	62.2	58.6	57.6	63.5	62.4	57.9	60.5	58.2	59.0	58.6	56.7	55.6	55.6	54.7	58.2
27	58.5	61.9	63.8	59.5	55.6	54.4	55.3	55.9	55.9	53.6	56.2	56.1	56.5	56.6	58.0	59.5	61.6	64.1	59.4	55.1	54.5	54.8	57.1	56.0	57.6
28	54.5	57.7	59.3	59.4	58.4	58.2	58.4	57.7	58.4	58.6	58.7	60.6	61.3	58.4	63.5	62.7	62.4	60.6	59.3	57.6	56.7	55.4	55.8	54.2	58.7
29	54.7	54.7	56.6	56.7	59.0	57.7	57.0	58.3	57.9	58.5	62.2	63.4	62.6	65.8	62.5	59.5	61.3	57.0	57.6	56.6	54.7	54.2	55.8	55.4	58.3
30	56.5	56.7	58.3	58.7	58.6	57.7	57.6	58.5	57.5	57.4	57.9	58.6	58.0	60.4	61.6	62.9	63.2	61.9	58.5	56.1	54.5	55.5	57.3	58.5	58.4
31 Q	57.6	57.6	58.1	58.4	58.3	57.7	57.7	57.7	56.5	56.7	57.6	58.9	59.4	60.0	60.5	61.0	60.8	60.4	59.4	56.1	54.7	54.7	55.0	56.4	58.0
Mean	56.5	57.4	57.9	59.3	59.5	59.0	59.2	58.6	58.8	60.4	60.7	62.1	62.6	62.0	60.7	60.1	61.3	59.9	58.2	56.3	55.7	55.5	56.1	56.1	58.9

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

Table 47 Meanook

$z = 58,500 \gamma +$

December 1947

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	554	565	552	542	542	536	542	550	539	276	447	536	538	542	536	536	536	537	542	547	544	544	537	537	527
2	541	538	537	537	537	537	538	545	551	551	530	476	481	508	519	510	514	528	520	530	541	541	540	545	529
3 Q	546	543	546	547	548	547	554	534	557	546	546	541	538	538	541	541	541	541	537	541	545	545	543	544	544
4	542	543	542	542	542	542	540	546	535	516	535	532	528	533	532	529	535	519	523	533	543	545	545	550	536
5	552	553	563	587	603	574	551	524	476	489	467	532	527	529	525	517	531	528	535	544	544	546	546	549	537
6 D	624	664	725	631	607	571	543	519	398	323	398	435	384	355	398	480	506	526	522	562	554	580	574	580	519
7	565	562	567	555	559	555	552	548	411	504	536	546	539	532	539	513	522	560	549	547	542	544	555	554	540
8	558	560	554	555	554	557	522	532	556	546	539	512	517	528	549	555	549	544	549	553	549	549	549	549	545
9 D	548	550	548	554	555	557	520	546	531	466	324	397	464	365	423	531	535	527	538	539	577	573	559	565	512
10	568	569	586	568	557	561	430	502	486	462	406	527	535	519	533	538	551	559	553	554	557	557	559	564	533
11	566	560	567	567	566	549	539	543	543	500	415	382	413	465	506	549	533	519	528	536	565	562	566	561	525
12 D	556	567	566	581	576	570	559	512	516	507	462	448	316	458	479	518	443	475	529	542	542	554	556	557	516
13 D	571	576	589	582	565	556	536	492	519	463	459	419	428	431	497	513	524	514	536	555	562	560	569	572	524
14	562	561	569	574	587	572	511	442	408	398	336	369	401	398	446	494	542	541	541	552	558	558	561	569	502
15	577	591	570	563	560	558	548	494	469	502	530	535	516	530	504	499	505	528	545	551	562	564	565	563	539
16	561	561	562	563	578	563	553	539	504	483	417	486	550	550	550	551	551	551	553	553	554	555	555	555	542
17 Q	557	557	555	553	558	558	550	540	532	529	521	529	529	529	540	542	542	542	537	548	550	553	556	556	544
18	559	559	559	559	559	555	552	497	451	510	529	528	520	530	542	551	550	550	551	556	556	553	556	564	542
19	571	569	561	557	561	563	550	526	505	459	396	472	483	518	526	526	527	541	544	548	550	554	554	561	530
20 Q	563	563	563	562	562	563	558	557	552	521	525	529	529	534	545	545	544	544	549	551	551	558	558	561	549
21 Q	561	561	560	560	558	556	559	559	552	554	554	554	555	555	560	559	560	559	564	564	564	559	559	561	559
22	564	564	563	563	563	563	562	562	558	550	542	538	518	519	536	525	521	535	555	559	562	568	571	573	551
23 D	586	591	594	594	595	599	605	600	556	581	589	577	550	562	504	535	556	569	577	576	576	576	576	574	575
24	576	576	583	585	587	579	574	575	575	573	573	571	566	571	573	570	571	570	574	568	565	576	587	585	575
25	582	581	580	580	582	580	582	583	582	570	574	575	569	569	574	575	575	575	569	569	568	577	575	578	576
26	584	589	588	583	583	583	588	574	471	535	561	573	568	561	552	558	568	566	573	583	581	583	584	584	570
27	589	586	588	607	618	640	624	605	567	540	519	514	526	532	539	553	571	584	589	589	587	596	594	600	577
28	599	599	593	593	594	604	599	598	586	583	582	560	561	551	577	588	588	590	594	594	594	594	593	599	588
29	604	610	608	610	608	600	599	603	606	599	583	563	535	510	448	490	556	572	594	602	602	604	609	609	580
30	605	604	604	603	594	598	599	599	599	598	598	593	582	577	594	593	598	601	601	599	599	600	600	599	597
31 Q	598	598	599	598	596	596	598	598	594	590	593	594	596	598	598	598	599	599	605	605	599	599	601	601	598
Mean	571	573	576	573	573	569	556	547	525	510	503	514	512	516	525	538	543	548	554	560	563	565	566	568	548

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48 Meanook

December 1947

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Range	Maximum 24° East +			Minimum 24° East +			Range	Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range
	h.	m.	$\gamma$	h.	m.	$\gamma$		$\gamma$	h.	m.	'	h.	m.		'	'	h.	m.	$\gamma$	h.	
1	11	30	836	09	17	303	533	10	27	82.2	09	28	09.1	73.1	01	17	576	09	33	047	529
2	14	33	800	16	14	724	76	11	56	73.1	17	31	48.2	24.9	09	00	562	11	49	454	108
3 Q	07	16	839	19	55	754	85	17	02	65.6	07	47	54.3	11.3	08	26	564	07	43	514	50
4	06	36	807	16	31	750	57	12	37	64.8	16	48	47.9	16.9	23	25	552	17	32	493	59
5	08	30	828	10	23	710	118	04	01	75.2	23	58	51.9	23.3	02	38	625	10	25	433	192
6 D	02	53	1046	12	37	157	889	13	11	77.3	12	46	-38.9	116.2	02	08	757	08	58	188	569
7	00	10	822	08	14	529	293	05	47	71.1	07	52	38.0	33.1	00	11	587	08	15	304	283
8	07	53	814	06	35	696	118	16	17	99.5	11	30	51.4	48.1	07	50	574	11	37	463	111
9 D	15	47	837	09	35	269	568	13	42	97.3	19	36	37.8	59.5	20	26	594	10	50	197	397
10	02	03	833	10	14	439	394	11	00	78.4	10	15	23.1	55.3	02	11	609	10	11	324	285
11	14	05	838	11	03	522	316	11	45	93.2	06	02	36.7	56.5	22	48	582	11	05	293	289
12 D	03	45	890	12	05	342	548	12	39	91.7	16	55	36.4	55.3	04	20	618	12	15	186	432
13 D	14	26	831	10	40	309	522	11	51	91.9	10	51	37.4	54.5	02	27	598	11	50	292	306
14	04	38	815	07	29	266	549	09	43	84.0	11	06	36.6	47.4	04	51	598	10	54	203	395
15	01	59	813	08	33	684	129	01	03	68.8	15	05	44.5	24.3	01	15	599	08	15	443	156
16	12	06	814	10	11	522	292	04	11	69.1	10	19	39.6	29.5	04	53	589	10	13	331	258
17 Q	02	44	803	09	56	740	63	12	20	64.0	09	54	-37.0	101.0	05	50	563	10	00	505	58
18	08	49	809	08	56	676	133	09	45	64.3	07	52	41.8	22.5	23	24	570	07	59	362	208
19	13	19	808	10	09	626	182	10	27	79.6	21	00	53.7	25.9	01	04	577	10	15	337	240
20 Q	16	29	809	21	47	765	44	06	14	67.0	21	13	54.6	12.4	05	52	574	09	49	512	62
21 Q	12	02	802	18	50	768	34	17	15	65.1	08	53	54.6	10.5	19	09	572	09	01	541	31
22	16	29	822	20	50	768	54	16	30	65.8	21	30	51.9	13.9	23	50	580	12	45	498	82
23 D	06	18	883	08	44	696	187	14	39	73.5	08	46	27.4	46.1	08	09	642	14	40	463	179
24	02	25	807	21	07	756	51	16	29	65.1	20	31	50.9	14.2	22	06	593	12	47	561	32
25	04	07	810	18	25	761	49	17	30	63.4	21	18	48.9	14.5	23	50	596	09	39	562	34
26	09	42	824	08	44	620	204	13	34	70.1	08	55	49.8	20.3	07	06	597	08	31	426	171
27	07	12	843	19	05	752	91	17	35	64.5	21	02	50.0	14.5	05	30	645	11	45	503	142
28	02	41	808	22	58	751	57	15	18	66.1	23	12	52.7	13.4	23	50	612	12	23	529	83
29	03	13	814	14	48	634	180	13	34	71.2	16	53	46.4	24.8	01	19	623	14	15	430	193
30	15	18	808	19	15	769	39	15	13	64.6	20	50	52.9	11.7	00	13	612	13	19	570	42
31 Q	11	52	810	19	36	775	35	17	12	62.2	21	15	53.4	08.8	19	07	607	09	45	584	23
Mean			830			608	222			73.9			38.9	35.0			618			423	195
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

Table 49 Meanook HORIZONTAL INTENSITY (gammas) (All Days) 1947. A table with 24 columns representing hours of the day (0 to 23) and rows for months (January to December), Year, Winter, Equinox, and Summer. Values range from -60 to +62.

Table 50 Meanook DECLINATION (minutes) (All Days) 1947. A table with 24 columns representing hours of the day (0 to 23) and rows for months (January to December), Year, Winter, Equinox, and Summer. Values range from -5.4 to +4.6.

Table 51 Meanook VERTICAL INTENSITY (gammas) (All Days) 1947. A table with 24 columns representing hours of the day (0 to 23) and rows for months (January to December), Year, Winter, Equinox, and Summer. Values range from -37 to +36.









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

Table 1 Meanook

H = 12,000  $\gamma$  +

January 1948

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	775	776	779	779	775	768	768	775	764	759	767	768	780	775	752	698	753	745	733	734	737	757	759	744	759
2 D	777	782	771	780	782	774	778	756	766	769	766	761	738	761	765	776	714	664	652	706	753	753	776	745	753
3 D	761	769	769	765	776	823	870	784	730	690	652	340	096	293	263	453	570	618	667	707	745	738	730	742	640
4 Q	757	753	753	753	752	753	754	753	753	753	754	753	753	753	753	752	745	738	731	730	734	745	745	753	749
5	753	754	757	761	754	749	761	752	753	749	738	745	753	745	718	738	752	758	761	753	752	745	745	757	750
6	769	766	769	766	759	766	757	738	637	692	761	761	745	745	761	776	761	749	755	745	745	746	759	762	750
7	760	769	773	769	769	765	761	718	622	769	769	721	519	759	792	792	776	765	757	754	746	738	746	759	744
8 D	773	765	776	785	769	769	750	683	675	741	738	491	505	754	784	768	754	765	691	726	757	769	769	760	730
9 D	761	823	783	769	777	784	765	757	714	721	695	644	722	753	776	776	776	769	761	754	761	753	761	769	755
10	768	768	768	768	768	775	768	760	725	701	705	721	744	768	733	705	768	768	752	748	748	752	753	761	750
11	752	760	771	772	760	760	775	768	744	755	759	744	745	752	768	775	768	764	752	751	748	760	765	768	760
12	768	761	768	775	775	775	772	775	775	775	761	701	787	783	779	775	772	760	745	747	753	752	760	769	765
13	775	775	774	774	774	774	771	775	774	767	732	720	767	779	782	782	778	759	751	748	756	757	767	767	766
14 Q	768	775	775	775	776	775	775	775	775	768	768	752	772	775	775	777	775	764	744	747	756	760	768	768	768
15	772	775	772	768	768	779	775	775	775	775	760	768	775	775	767	775	779	764	752	753	757	761	757	761	768
16	774	774	782	781	774	767	774	774	767	747	759	769	767	765	763	774	774	763	747	743	744	751	759	766	765
17 D	773	776	779	780	775	775	775	775	779	752	737	787	717	452	468	698	764	721	710	731	737	752	768	760	731
18	775	783	782	793	784	779	775	765	761	754	694	754	775	777	772	772	770	760	752	740	752	752	752	752	764
19	761	760	780	804	796	784	776	769	753	627	772	757	656	745	787	784	776	771	761	773	757	761	761	768	760
20	776	776	783	784	792	800	787	784	715	745	769	754	674	667	714	784	792	773	753	758	752	745	745	769	758
21	765	780	792	784	784	785	783	776	769	762	765	737	663	706	758	784	773	742	746	722	745	741	769	776	759
22	784	793	788	769	776	780	781	769	769	759	766	765	749	714	754	791	780	777	761	746	741	745	750	761	765
23	767	762	770	762	785	778	777	777	774	770	746	770	777	777	777	774	784	774	757	747	746	751	744	758	767
24 Q	765	768	769	769	776	776	776	773	769	762	765	768	762	773	776	776	776	769	757	753	746	745	752	760	766
25 Q	769	769	769	773	769	769	769	768	761	766	769	761	773	784	776	776	773	765	754	746	746	748	757	769	766
26 Q	771	780	776	769	776	780	777	779	776	776	776	776	776	776	773	776	776	769	761	759	757	760	767	773	772
27	776	776	776	776	780	776	776	784	788	749	750	769	762	699	730	780	784	769	757	754	757	754	762	769	765
28	772	776	776	776	776	769	769	769	753	749	769	746	732	780	784	792	792	784	776	768	761	760	762	776	769
29	778	758	766	773	774	777	769	766	762	770	775	774	754	758	779	758	707	770	755	746	739	724	746	766	760
30	770	774	770	758	762	766	763	715	715	715	707	715	645	613	746	770	754	746	731	755	755	755	758	763	738
31	770	777	777	789	785	777	774	770	770	770	770	777	766	762	754	762	777	770	755	747	746	753	762	774	768
Mean	769	773	774	774	774	775	774	763	747	747	749	728	708	726	738	757	761	754	743	745	749	751	757	763	754

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

Table 2 Meanook

D = 24° E + ... ' 1

January 1948

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	56.8	57.4	57.7	58.0	57.9	60.5	58.4	58.2	56.5	57.4	58.5	60.5	60.5	63.3	59.9	58.8	59.6	59.5	58.9	55.5	53.5	53.6	52.7	52.7	57.8
2 D	54.3	55.9	59.7	60.6	58.8	57.8	59.4	59.1	60.6	58.2	58.7	59.8	57.7	61.2	60.7	60.7	57.7	57.0	51.9	49.8	56.6	55.9	52.7	56.3	57.5
3 D	56.1	57.9	59.7	58.1	57.8	54.7	59.7	57.7	61.0	63.5	58.8	73.5	83.0	74.8	44.8	71.6	66.6	68.8	63.5	57.6	55.6	56.5	56.7	57.8	61.5
4 Q	58.4	59.6	59.6	60.9	60.8	60.6	60.2	59.7	58.7	58.7	59.6	59.7	59.7	59.8	60.6	62.6	64.8	65.4	63.6	62.7	61.5	58.7	58.7	58.9	60.6
5	58.9	58.9	59.3	60.0	60.0	59.6	61.7	60.9	58.7	59.4	58.9	60.7	60.5	60.8	55.9	58.7	61.6	62.6	64.4	62.2	59.8	56.1	56.1	58.3	59.8
6	58.7	59.0	59.8	60.1	60.0	61.5	60.9	59.7	61.8	67.7	62.3	59.0	56.1	61.0	60.8	63.3	65.5	59.0	59.4	59.6	56.9	57.0	56.0	56.8	60.0
7	56.3	57.9	58.9	60.4	61.0	59.5	60.0	58.8	59.0	63.1	62.1	64.6	64.3	63.7	62.4	64.6	60.5	60.9	54.7	58.2	56.3	54.7	51.5	58.2	59.6
8 D	56.1	57.1	57.6	68.6	68.3	59.6	61.2	60.1	59.3	59.6	62.0	62.1	64.0	63.9	65.9	60.0	61.8	62.9	61.5	46.8	54.4	57.2	59.3	59.1	60.4
9 D	59.7	61.5	62.0	59.5	72.8	66.5	61.6	57.3	55.4	54.5	57.4	59.3	56.2	58.6	58.7	60.4	62.6	63.8	63.0	61.3	58.3	58.1	61.0	59.1	60.4
10	58.4	58.3	59.1	61.0	72.1	61.4	58.5	58.8	53.4	55.2	57.6	60.3	58.2	58.2	58.4	49.2	62.3	64.0	60.8	59.2	57.9	56.4	57.3	57.9	58.9
11	59.3	58.9	59.4	59.5	61.8	61.7	59.1	58.3	59.5	59.7	61.1	58.4	55.5	60.3	61.7	60.4	63.3	65.6	63.5	61.7	58.4	57.9	57.3	58.5	60.0
12	58.0	58.9	59.2	58.9	59.0	58.9	60.0	59.3	59.4	58.1	61.5	59.3	59.2	59.9	61.0	61.9	63.0	63.2	58.5	55.8	55.4	56.5	56.1	57.0	59.1
13	56.9	57.0	57.5	58.4	58.6	58.5	58.3	59.2	57.7	58.7	56.5	56.0	62.3	61.4	63.2	61.3	63.8	59.5	56.3	55.7	53.6	54.5	55.7	57.3	58.2
14 Q	58.4	57.7	58.3	58.6	58.6	58.5	58.4	58.8	57.6	58.6	59.6	55.7	59.1	61.9	62.9	63.9	62.2	62.4	61.4	59.4	57.8	57.4	56.6	57.0	59.2
15	58.2	57.9	58.2	58.5	59.0	59.1	58.2	58.3	57.8	56.9	57.2	58.6	60.0	60.7	59.4	61.6	65.2	63.1	61.1	59.4	57.5	55.3	56.3	57.2	58.9
16	57.7	57.7	58.2	59.2	59.1	59.1	58.6	59.1	58.5	58.8	61.7	61.9	60.5	59.0	57.7	59.7	64.9	63.3	60.6	58.6	57.7	55.8	55.9	56.8	59.2
17 D	57.4	57.0	58.3	58.8	59.3	59.9	62.1	60.1	58.1	55.7	58.4	63.6	65.9	77.6	81.7	68.4	70.3	62.1	56.2	56.3	57.0	54.5	50.8	55.1	61.0
18	57.7	53.0	57.4	58.9	59.3	61.1	59.8	59.6	60.6	44.2	55.3	67.9	65.5	63.7	63.3	64.6	63.1	62.7	61.8	59.8	57.4	56.0	54.5	55.9	59.3
19	56.4	55.5	55.2	56.0	58.9	60.7	58.9	59.0	58.9	59.1	63.7	67.1	59.3	59.8	62.9	64.5	65.2	63.3	61.8	60.3	57.9	57.1	56.3	58.1	59.8
20	58.2	58.0	56.5	56.1	59.7	55.3	59.5	60.9	59.7	61.1	61.4	65.8	58.2	60.8	56.1	62.8	65.7	66.3	59.1	56.1	55.2	56.1	56.9	54.7	59.2
21	53.3	56.5	57.1	58.0	59.7	58.7	59.9	60.0	60.9	61.8	61.7	59.7	62.2	51.6	60.0	64.6	68.6	68.1	62.2	55.1	55.9	56.1	54.9	51.2	59.1
22	56.9	52.7	51.5	55.3	58.9	60.4	61.6	60.1	60.1	58.2	59.5	61.2	60.1	54.4	55.2	61.0	64.8	64.9	65.8	60.8	57.7	56.7	55.7	56.9	58.8
23	54.8	55.7	57.3	65.0	62.0	60.5	59.4	59.1	59.5	60.5	57.6	60.0	60.5	59.6	60.8	61.0	64.8	65.9	64.9	62.0	61.0	56.1	57.1	57.1	60.1
24 Q	59.1	58.7	58.4	58.5	58.3	59.0	58.2	58.3	58.7	59.9	61.0	62.1	59.3	59.6	59.9	62.5	64.5	65.1	62.8	62.2	60.1	58.4	56.7	56.5	59.9
25 Q	57.3	57.8	58.5	59.2	62.6	63.1	59.8	62.0	56.4	60.3	62.3	62.7	62.2	60.7	61.2	64.1	65.6	64.6	62.9	61.1	60.8	58.2	57.4	57.2	60.8
26 Q	57.2	57.3	57.4	58.2	58.4	57.5	61.4	59.4	59.7	58.9	59.2	59.6	60.1	60.1	59.7	62.1	65.0	65.5	63.6	61.2	59.3	57.2	55.9	55.3	59.6
27	54.5	53.9	54.5	58.5	59.1	57.8	57.8	53.9	61.6	62.2	65.5	68.9	66.3	63.1	64.4	70.9	71.3	68.1	62.6	59.7	59.3	58.1	57.8	57.3	61.1
28	57.9	58.2	58.9	59.4	60.1	59.7	60.1	59.8	56.3	61.8	63.7	61.1	55.0	65.1	62.3	63.2	64.2	59.4	61.8	60.7	58.9	57.2	57.4	56.5	59.9
29	56.6	58.3	57.3	60.7	61.0	60.3	62.0	60.3	59.5	60.5	58.7	58.9	58.9	55.0	62.1	58.8	45.7	62.4	66.0	65.1	59.8	55.6	56.5	56.0	59.0
30	57.6	58.3	59.8	61.0	60.9	62.3	61.5	66.2	60.2	66.4	62.8	63.1	56.6	55.0	58.7	65.4	64.6	63.3	55.7	60.2	59.6	56.4	57.4	56.7	60.4
31	56.8	58.5	58.1	58.7	61.2	62.6	60.6	58.7	58.1	58.0	58.6	59.8	58.0	58.4	58.6	61.0	62.3	65.1	64.3	62.5	59.1	56.6	56.4	57.5	59.6
Mean	57.2	57.5	58.1	59.4	60.8	59.9	59.9	59.4	58.8	59.2	60.1	61.6	60.8	61.1	60.7	62.4	63.6	63.5	61.1	58.9	57.7	56.5	56.2	56.8	59.6

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

Table 3 Meanook

Z = 58,500  $\gamma$  +

January 1948

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	587	587	587	587	589	600	591	589	579	581	572	556	569	581	550	486	511	545	576	599	587	599	608	610	576	
2 D	609	634	609	609	624	619	565	563	581	592	591	580	532	555	578	559	545	536	560	600	590	595	614	601	585	
3 D	600	610	608	619	637	668	636	494	495	516	514	425	369	365	607	559	593	603	648	656	629	624	617	617	571	
4 Q	627	618	618	614	613	608	607	606	606	598	598	598	601	601	601	604	604	603	603	602	596	596	601	600	605	
5	596	596	600	600	601	604	589	575	585	580	575	558	569	576	548	559	568	571	595	601	613	607	605	602	586	
6	607	598	601	601	600	609	606	591	429	480	568	579	564	563	595	602	568	569	590	603	610	609	610	607	582	
7	605	608	608	601	599	595	595	488	457	550	574	545	363	513	574	580	563	575	585	587	594	599	606	617	566	
8 D	617	611	625	635	620	617	594	502	456	553	563	416	357	519	557	557	566	577	594	615	589	610	606	611	565	
9 D	609	651	628	606	596	606	583	563	533	550	541	522	546	572	599	603	599	599	601	601	601	607	618	610	589	
10	613	613	598	601	604	601	592	577	515	504	501	514	547	574	538	524	560	583	595	596	595	601	599	597	573	
11	603	607	598	607	607	597	602	590	554	574	576	546	548	554	560	578	585	586	594	594	593	591	591	594	585	
12	587	592	589	589	584	584	588	583	579	579	525	484	562	587	585	583	580	583	589	588	589	595	593	596	579	
13	593	588	591	584	588	588	593	593	583	575	556	513	547	571	567	591	587	578	578	582	588	590	590	590	579	
14 Q	585	586	587	587	586	587	584	587	579	572	568	560	556	568	572	572	572	582	587	591	593	592	593	591	581	
15	583	579	581	581	582	570	575	579	569	568	558	550	568	570	569	570	580	580	581	581	580	581	581	584	575	
16	578	578	577	578	588	600	588	578	550	497	508	549	554	560	564	578	576	573	577	578	583	583	585	583	569	
17 D	577	577	577	579	579	581	582	577	565	512	490	544	501	528	329	468	530	540	555	571	593	604	599	588	548	
18	601	626	620	609	607	605	607	584	566	424	456	517	538	554	566	567	575	581	584	576	572	575	585	581	570	
19	582	588	597	604	599	589	579	577	543	440	527	549	434	473	557	570	559	559	564	575	573	572	572	575	557	
20	573	574	574	590	601	650	606	588	549	542	552	542	455	413	401	535	569	557	600	581	579	585	585	596	558	
21	590	596	597	590	592	596	584	577	569	562	562	533	454	441	476	558	574	566	578	579	595	606	610	650	568	
22	625	600	604	606	591	586	584	572	568	550	551	562	553	521	523	571	573	563	564	568	570	575	578	576	572	
23	582	582	593	603	599	587	572	571	571	561	540	545	550	561	566	564	571	563	566	564	571	577	571	574	571	
24 Q	570	568	568	569	569	571	569	569	561	542	539	542	555	560	572	571	571	571	568	575	575	574	571	571	565	
25 Q	570	570	572	572	575	584	578	564	527	540	558	525	516	548	560	565	565	559	558	561	560	560	565	569	559	
26 Q	566	567	567	573	572	593	591	580	573	570	569	569	569	565	565	564	562	562	570	570	569	568	568	568	570	
27	568	573	581	582	580	580	575	597	588	562	527	554	558	516	498	540	551	558	566	567	569	569	569	571	562	
28	570	570	570	570	570	570	569	569	545	487	537	526	483	515	569	575	569	570	573	573	569	569	569	573	557	
29	577	596	610	591	578	594	583	573	550	537	560	559	532	516	541	537	478	530	559	569	580	582	581	581	562	
30	572	581	591	592	591	585	581	487	491	486	470	468	451	401	457	527	545	559	573	575	574	580	580	577	537	
31	581	619	610	591	589	594	588	569	566	573	570	562	556	543	547	543	558	567	575	575	575	572	573	575	574	
Mean	590	595	595	594	594	597	588	568	548	541	545	535	518	532	545	560	565	569	581	586	586	589	590	591	571	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4 Meanook

January 1948

Day	Horizontal Intensity					Declination					Vertical Intensity										
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$						
	h.	m.	$\gamma$	h.		m.	$\gamma$	h.	m.		'	h.	m.	$\gamma$		h.	m.	$\gamma$			
1	07	53	800	15	33	673	127	05	08	74.0	22	09	50.7	23.3	23	36	620	15	35	463	157
2 D	06	16	833	18	27	624	209	06	23	67.0	19	20	45.5	21.5	00	54	644	06	33	500	144
3 D	06	37	983	12	07	-117	<u>1100</u>	12	27	<u>132.6</u>	15	30	-21.0	<u>153.6</u>	14	48	<u>889</u>	12	20	<u>123</u>	<u>766</u>
4 Q	00	26	766	19	02	723	43	17	08	69.2	00	33	57.7	11.5	00	40	629	20	25	594	<u>35</u>
5	06	35	787	14	30	706	81	07	13	68.0	15	05	52.6	15.4	06	09	619	06	59	520	99
6	06	52	793	08	21	568	225	05	37	79.6	08	24	44.3	35.3	05	55	629	08	56	323	306
7	15	04	821	12	17	323	498	08	38	78.1	08	09	32.6	45.5	23	57	638	08	04	250	388
8 D	14	19	811	12	10	317	494	04	00	78.8	12	03	37.6	41.2	19	41	649	12	05	250	399
9 D	01	27	875	11	05	568	307	04	29	93.8	12	15	48.8	45.0	01	31	712	11	06	464	248
10	04	43	786	15	16	658	128	04	23	79.6	15	24	42.6	37.0	04	25	620	08	51	493	127
11	05	47	801	09	00	712	89	05	41	71.6	12	32	52.1	19.5	03	55	622	11	40	532	90
12	12	31	803	11	26	655	148	11	04	67.2	20	01	52.8	14.4	23	13	608	11	29	433	175
13	15	37	791	11	00	669	122	16	45	74.5	10	54	43.2	31.3	02	06	601	11	05	479	122
14 Q	13	08	786	19	27	740	46	16	10	66.3	11	44	53.0	13.3	23	31	596	12	01	541	55
15	05	50	793	10	43	742	51	16	04	66.6	10	43	53.7	12.9	06	29	592	11	12	539	53
16	02	52	788	09	38	720	68	16	48	66.3	08	50	54.0	12.3	05	34	614	09	43	456	158
17 D	15	58	822	14	30	417	405	14	30	131.2	14	00	43.8	87.4	13	36	697	14	30	156	541
18	09	11	<u>1177</u>	09	34	598	579	09	45	81.5	09	18	-3.4	84.9	09	11	650	09	33	261	389
19	03	31	817	09	07	515	302	09	19	73.1	09	30	46.8	26.3	03	44	611	12	50	375	236
20	15	44	813	12	55	589	224	12	06	68.5	14	42	46.2	22.3	06	20	668	14	11	353	315
21	15	11	812	12	23	634	178	17	12	73.7	23	22	45.3	28.4	23	56	673	13	44	391	282
22	02	11	804	13	37	667	137	19	15	68.9	14	07	49.4	19.5	00	06	663	13	49	473	190
23	16	47	795	10	30	713	82	03	30	70.8	10	33	52.2	18.6	03	52	613	10	34	520	93
24 Q	14	10	786	21	14	738	48	17	16	66.7	23	40	56.1	<u>10.6</u>	22	08	579	09	27	528	51
25 Q	13	23	793	11	53	734	59	04	33	69.1	08	29	52.1	17.0	06	01	588	12	03	465	123
26 Q	07	03	791	21	01	749	<u>42</u>	17	04	66.2	05	31	49.6	16.6	05	42	619	13	30	557	62
27	08	09	833	13	45	632	201	16	36	73.1	07	46	49.6	23.5	07	27	627	14	17	473	154
28	15	43	801	12	27	695	106	16	35	66.8	08	48	46.8	20.0	15	05	584	12	32	454	130
29	17	30	795	16	28	669	126	18	48	71.3	16	20	38.6	32.7	02	01	620	16	28	444	176
30	07	05	805	13	05	527	278	07	10	82.8	13	02	44.9	37.9	06	45	597	13	11	445	152
31	03	54	802	14	58	733	69	01	44	67.4	01	36	53.1	14.3	01	48	689	14	58	519	170
Mean			821			609	212			76.2			44.2	32.0			637			431	206
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 1948

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	770	767	777	777	777	777	777	777	777	777	777	777	781	784	784	785	781	772	763	758	750	754	754	766	772
2	774	781	777	777	770	770	777	739	700	700	684	630	700	711	739	762	742	762	769	762	749	742	758	770	744
3 D	770	777	801	789	793	793	813	647	294	145	433	378	201	403	816	797	785	777	762	754	754	766	770	775	658
4	776	769	761	761	761	761	751	738	769	753	757	753	637	726	749	761	749	769	765	745	745	745	745	761	750
5	769	776	769	785	776	776	769	761	768	769	752	745	761	776	762	738	745	753	769	761	738	760	753	761	762
6	772	774	775	775	768	772	772	776	768	748	720	736	751	764	775	791	783	783	772	764	756	763	760	740	765
7	768	782	782	782	772	775	772	772	775	775	775	760	694	756	776	782	782	775	764	760	756	760	768	760	768
8	768	776	779	779	779	779	775	775	775	775	775	764	774	787	791	792	784	775	754	752	754	758	752	760	772
9 Q	774	774	775	775	774	774	775	778	775	778	778	778	778	786	782	786	776	774	767	760	759	759	759	771	774
10	775	782	790	790	787	782	781	781	778	778	790	782	785	789	786	767	783	793	771	769	767	767	767	774	780
11	776	778	772	774	783	783	781	780	779	779	772	757	768	771	770	758	787	770	756	750	750	748	764	777	770
12	781	783	781	781	780	779	772	779	779	779	785	782	752	740	773	789	785	770	754	751	752	759	764	771	772
13	754	773	780	783	782	778	774	771	747	740	770	779	775	781	787	784	783	771	756	755	754	758	761	764	769
14	772	777	777	777	777	775	775	785	767	705	733	742	734	629	778	785	772	759	752	729	732	754	775	776	756
15 D	783	775	779	797	801	791	776	733	706	709	583	511	491	631	764	747	740	759	729	668	729	775	753	839	724
16 D	924	834	807	818	982	838	803	750	654	558	527	631	697	758	783	740	722	740	752	752	745	745	751	765	753
17	763	779	826	850	854	802	819	797	740	678	606	657	691	605	724	769	762	743	759	761	762	761	768	766	752
18 D	776	775	798	785	782	781	766	721	760	627	721	778	783	769	693	692	743	771	758	743	739	761	755	761	752
19	767	775	786	786	797	784	782	788	730	741	662	757	735	738	706	750	759	759	759	760	761	757	750	769	757
20 Q	781	770	777	774	778	780	780	785	790	778	778	770	769	776	776	776	769	770	776	773	792	785	778	766	777
21 Q	772	775	779	779	777	776	776	779	779	778	782	783	784	782	781	779	779	775	760	754	753	752	756	766	773
22 Q	774	770	775	777	778	777	777	778	763	760	760	774	764	774	779	781	778	765	755	756	760	766	777	777	771
23 D	775	775	777	791	824	807	800	791	788	694	509	394	168	337	413	588	736	705	760	779	772	759	768	760	678
24	768	778	775	765	768	768	768	729	588	791	783	768	730	707	744	784	786	759	750	744	739	722	759	759	751
25	761	762	762	763	764	765	764	762	753	611	738	786	778	776	776	771	776	765	761	755	753	749	755	764	757
26	766	770	774	776	780	778	779	781	781	781	778	775	779	785	778	775	771	754	752	756	758	761	771	772	772
27	782	777	774	773	782	784	783	778	778	770	744	759	789	791	782	774	785	777	758	754	753	748	750	767	771
28	816	883	945	1027	865	869	836	770	645	629	621	739	791	784	769	753	762	770	752	749	742	750	748	762	782
29	764	769	781	779	793	804	829	808	777	761	763	780	773	757	727	757	762	746	753	752	754	752	766	763	770
30																									
31																									
Mean	778	781	787	791	793	785	783	766	734	713	712	718	704	723	754	763	768	765	759	752	753	756	760	768	757

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

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

Table 6 Meanook

D = 24° E + ...'

February 1948

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 Q	57.7	58.0	58.2	58.5	58.6	58.9	59.3	59.1	58.6	58.6	58.7	58.8	58.6	59.3	59.5	61.6	63.5	64.5	64.2	62.7	60.4	57.0	56.7	57.3	59.5
2	57.5	57.7	57.9	57.4	59.5	59.4	60.6	63.5	63.9	69.0	69.6	78.8	74.8	70.3	67.1	67.7	64.1	51.5	57.7	57.5	56.7	54.4	55.7	55.2	62.0
3 D	56.3	58.1	59.4	58.8	59.4	59.6	59.1	61.5	63.5	39.8	76.4	81.2	96.9	45.0	64.6	66.1	68.3	66.3	60.7	60.0	59.2	57.2	56.7	56.7	62.1
4	56.2	58.2	58.1	59.6	59.6	60.5	70.2	73.4	59.1	59.6	59.2	58.7	54.2	60.4	60.5	65.4	62.4	59.5	59.7	59.2	57.2	57.0	57.0	58.3	60.1
5	57.7	55.8	59.8	64.5	59.6	59.5	58.9	59.6	62.7	61.8	59.5	56.8	61.7	61.1	58.9	56.8	58.3	55.8	59.3	59.7	58.7	57.2	58.9	59.3	59.2
6	58.9	58.3	58.9	59.2	59.5	59.3	62.6	63.3	65.8	64.3	69.7	63.9	58.4	52.9	60.7	63.5	63.0	64.1	61.5	59.3	58.9	58.2	55.8	55.3	60.6
7	56.6	57.5	57.4	58.7	61.4	61.6	61.1	58.9	59.7	58.5	58.5	56.8	53.3	55.2	62.0	60.8	62.2	63.7	63.1	62.9	61.0	57.8	56.8	55.6	59.2
8	55.0	55.4	57.9	57.9	60.2	60.6	60.9	63.5	59.7	58.6	58.6	58.9	58.4	60.0	60.1	60.6	63.3	65.3	62.1	61.1	58.6	56.8	53.9	55.3	59.3
9 Q	56.9	57.7	57.6	58.2	60.3	60.5	59.9	59.6	58.9	58.9	59.8	59.7	59.0	54.5	60.5	60.8	63.1	64.1	62.5	61.5	59.9	56.9	56.5	56.1	59.5
10	56.4	56.5	56.8	57.7	58.0	57.6	67.3	60.7	56.9	56.8	58.2	61.2	59.7	59.8	59.6	59.0	55.4	52.3	59.6	60.7	60.0	59.6	58.4	57.7	58.6
11	57.8	57.6	57.6	58.1	59.2	59.9	59.6	59.0	58.6	58.5	58.6	57.0	57.7	59.9	57.6	56.6	65.1	64.6	61.2	59.6	56.9	53.7	54.0	55.7	58.5
12	57.5	57.8	58.5	58.9	58.7	58.5	59.6	58.7	57.2	57.2	58.6	62.4	58.8	55.4	57.5	63.9	64.6	60.7	57.8	55.7	54.0	53.8	55.0	54.5	58.1
13	54.1	56.1	58.2	58.9	58.8	58.1	57.9	58.8	59.3	60.0	60.1	61.0	60.0	61.0	61.8	62.3	63.9	61.1	62.8	61.3	59.6	56.8	55.7	55.8	59.3
14	58.5	57.9	58.8	59.3	58.9	58.8	58.7	61.8	58.7	59.1	63.5	65.8	70.7	60.2	57.6	62.7	61.0	58.7	56.0	53.3	48.2	49.6	49.4	50.3	58.2
15 D	50.4	53.8	58.9	60.8	60.8	60.0	62.0	69.5	68.1	62.5	74.8	71.1	89.1	94.4	72.2	81.8	74.7	63.5	64.9	48.2	48.1	54.2	55.3	48.5	64.5
16 D	54.8	53.1	57.6	56.8	64.9	66.0	63.9	65.5	63.2	63.6	79.7	72.4	57.9	62.8	63.2	66.4	67.1	64.0	61.8	62.0	61.5	60.0	54.8	52.3	62.3
17	54.8	57.2	57.1	63.0	68.9	58.8	56.7	61.9	56.5	62.2	49.6	57.9	65.5	60.9	59.1	65.0	64.5	62.5	57.9	58.9	59.8	58.6	55.2	55.3	59.5
18 D	55.2	60.3	58.1	57.1	56.0	55.7	56.7	45.2	65.4	57.2	50.4	60.8	60.8	61.7	56.7	55.2	57.0	62.5	60.8	61.3	58.9	55.0	54.4	55.2	57.4
19	56.4	56.4	57.8	60.0	60.5	55.2	57.4	55.9	59.0	61.7	64.9	64.6	61.9	56.8	60.4	60.8	60.7	60.4	58.0	58.0	57.0	57.4	56.1	56.7	58.9
20 Q	56.3	57.8	57.1	57.4	56.7	56.4	58.0	58.4	60.1	60.2	60.6	60.1	58.2	59.6	60.6	62.1	63.0	61.1	58.2	56.0	57.8	57.3	58.8	57.6	58.7
21 Q	57.1	56.4	57.3	58.2	58.0	57.8	58.0	58.0	58.2	58.2	59.1	59.6	59.9	60.2	61.3	61.8	64.5	64.6	62.7	62.2	59.6	58.7	57.6	56.3	59.4
22 Q	55.7	52.0	53.2	54.2	56.2	58.1	58.5	58.3	60.0	61.0	63.0	66.3	62.7	60.9	59.9	60.6	61.5	62.2	59.8	57.8	56.2	55.4	55.7	56.8	58.6
23 D	57.0	55.9	56.4	57.0	53.0	55.3	55.0	56.4	62.0	61.1	73.6	73.6	90.2	71.8	28.6	56.4	56.8	52.4	53.5	55.5	56.2	58.1	60.9	60.9	59.1
24	59.6	58.9	58.8	59.5	59.2	58.1	57.3	57.3	57.9	65.1	61.5	63.1	61.8	62.8	63.0	64.2	63.9	63.3	59.6	60.0	55.6	49.0	55.4	58.6	59.7
25	59.4	59.1	59.1	59.5	59.4	59.0	58.5	58.5	61.2	58.2	62.1	61.1	61.3	61.6	61.8	63.8	64.7	64.1	61.0	59.2	57.4	56.5	57.3	57.9	60.1
26	58.2	58.2	58.3	58.3	58.5	58.2	58.4	58.0	58.2	58.7	59.2	59.4	59.0	59.8	61.4	63.2	65.0	64.8	64.0	62.6	58.2	56.8	56.4	56.1	59.5
27	56.0	54.4	56.9	57.3	58.4	60.0	59.1	58.5	60.0	62.6	59.6	63.6	64.1	64.0	62.1	60.2	63.0	64.2	63.1	60.3	58.9	57.3	53.2	51.7	59.5
28	48.6	60.4	41.3	48.8	63.6	58.1	61.2	61.2	61.7	66.2	63.0	60.4	59.8	61.3	65.3	62.7	61.6	63.3	62.0	62.7	60.3	56.4	56.1	53.7	59.2
29	53.3	56.2	53.7	56.7	59.3	58.6	56.3	62.0	61.3	62.3	62.5	62.9	62.1	60.2	61.7	64.4	62.3	62.2	59.5	56.4	58.4	56.7	54.9	54.8	59.1
30																									
31																									
Mean	56.2	57.0	57.1	58.3	59.5	58.9	59.7	60.2	60.5	60.1	62.5	63.4	64.0	61.3	60.2	62.6	63.1	61.6	60.5	59.2	57.7	56.3	56.0	55.7	59.6

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

Table 7 Meanook

$z = 58,500 \gamma +$

February 1948

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	571	573	571	568	568	568	565	565	563	563	563	563	565	565	566	568	568	568	574	570	569	569	569	568	568
2	561	560	561	568	582	595	590	561	531	400	475	421	421	464	474	488	518	524	557	564	569	571	570	569	529
3 D	569	571	575	567	564	575	594	351	475	460	543	460	370	375	560	570	577	570	564	563	561	561	561	561	529
4	563	563	564	568	580	569	508	411	530	543	515	532	495	509	516	518	528	594	567	577	587	583	588	593	546
5	586	592	605	604	594	576	573	562	518	554	548	524	535	550	551	546	562	573	580	578	576	584	583	580	568
6	581	580	580	578	576	577	578	551	524	524	505	512	506	517	545	573	576	583	576	580	576	576	583	583	560
7	585	592	589	589	593	593	579	563	558	565	566	552	482	524	554	575	584	576	582	583	583	585	584	583	572
8	600	604	597	600	599	593	586	578	575	567	553	518	522	560	572	574	574	572	579	583	583	585	586	589	577
9 Q	592	588	598	598	585	588	579	573	576	576	575	575	574	575	575	576	576	577	577	579	579	579	578	579	580
10	575	575	576	577	577	577	601	598	578	569	551	533	546	565	572	552	550	550	563	569	572	572	575	577	569
11	580	584	582	580	577	580	576	574	574	571	563	540	526	530	529	525	541	558	572	579	582	580	577	579	565
12	581	581	581	580	575	575	580	585	575	558	549	549	540	519	528	559	560	564	570	573	574	581	581	581	567
13	589	617	594	574	573	574	581	581	546	523	556	570	560	565	575	575	574	573	573	575	575	580	583	586	574
14	596	585	580	575	575	576	592	585	579	508	494	527	526	495	540	553	549	559	564	578	594	607	611	611	565
15 D	628	650	641	635	638	617	588	460	457	448	500	451	450	441	561	581	577	554	565	563	593	619	617	661	562
16 D	673	649	631	636	681	663	639	598	671	574	468	514	565	581	591	561	592	593	597	586	594	600	606	616	603
17	610	617	643	658	647	638	637	617	565	541	453	489	500	501	498	564	582	580	579	584	584	584	593	589	577
18 D	594	619	634	606	587	591	583	451	568	501	490	596	582	569	522	529	558	569	583	588	603	601	601	610	572
19	603	606	605	607	603	599	594	596	581	583	565	580	560	562	531	553	565	577	585	594	600	607	617	611	587
20 Q	606	589	596	594	588	594	595	592	582	587	583	573	567	569	575	582	582	582	600	564	549	542	562	583	581
21 Q	577	574	574	577	577	577	580	580	575	569	576	576	577	575	577	576	579	575	582	580	574	578	581	588	577
22 Q	584	589	600	605	601	592	594	572	527	544	516	535	542	538	552	562	572	573	579	584	581	579	576	576	570
23 D	573	587	594	615	637	632	623	605	505	438	410	524	725	518	345	348	497	575	593	602	594	596	587	580	554
24	579	582	583	581	577	574	571	558	463	554	575	568	540	523	542	558	569	561	560	579	610	606	590	579	566
25	581	581	572	568	570	570	571	572	559	494	503	569	570	569	573	574	575	572	581	576	578	580	581	580	567
26	576	569	569	567	567	566	568	567	565	565	567	562	555	547	562	568	568	568	569	571	571	573	574	574	567
27	573	585	609	601	589	591	582	571	556	543	481	503	539	549	543	557	552	555	565	565	565	563	565	592	563
28	638	661	696	710	649	664	642	593	457	476	453	512	552	564	561	557	554	561	563	561	563	571	573	575	579
29	596	591	593	600	616	623	624	594	556	526	503	541	550	549	513	528	524	536	553	559	571	579	581	587	566
30																									
31																									
Mean	590	594	596	596	595	593	589	557	548	532	524	533	536	533	541	550	561	568	574	576	580	582	584	588	568

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8 Meanook

February 1948

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 Q	15 02	789	22 15	744	45	17 03	65.4	22 06	54.2	11.2	01 07	585	10 37	559	<u>26</u>
2	06 28	797	11 12	557	240	11 19	88.8	08 19	47.8	41.0	06 33	612	12 12	372	240
3 D	06 48	857	09 03	<u>-166</u>	<u>1023</u>	12 20	142.7	09 14	<u>-23.4</u>	<u>166.1</u>	08 52	836	07 45	<u>-38</u>	<u>874</u>
4	01 00	800	12 42	593	207	06 52	93.6	12 12	43.2	50.4	23 40	610	07 15	327	283
5	03 21	800	16 07	706	94	02 56	72.1	11 24	54.2	17.9	03 04	622	08 28	468	154
6	15 33	807	10 09	694	113	10 13	<u>73.4</u>	13 45	52.4	21.0	23 42	598	10 16	466	132
7	15 48	808	12 26	673	135	17 08	67.7	13 43	51.0	16.7	15 47	612	12 29	450	162
8	15 45	799	11 55	737	62	17 54	68.2	22 45	51.1	17.1	01 55	613	11 58	491	122
9 Q	07 36	790	20 14	750	40	17 10	65.6	02 47	55.4	<u>10.2</u>	02 34	601	07 42	561	40
10	16 46	815	16 05	739	76	06 49	81.9	16 34	50.0	31.9	07 01	629	11 44	525	104
11	16 21	800	11 46	723	77	16 47	66.7	21 26	52.3	14.4	05 33	591	11 54	496	95
12	15 02	802	13 17	701	101	15 43	67.2	13 30	51.0	16.2	07 00	596	13 18	498	98
13	14 11	807	09 32	711	96	14 10	68.6	01 00	53.0	15.6	01 36	646	10 01	492	154
14	14 51	807	13 35	561	246	12 28	72.5	20 31	47.1	25.4	23 17	624	10 43	467	157
15 D	23 56	970	12 11	360	610	13 11	109.9	19 50	37.1	71.9	23 57	735	15 13	274	461
16 D	04 22	<u>1140</u>	10 24	407	733	10 11	109.8	04 27	33.0	76.8	08 18	758	10 15	369	389
17	04 04	1018	13 21	525	493	04 10	96.6	10 46	38.8	57.8	04 02	721	10 14	401	320
18 D	06 28	827	09 35	425	402	08 08	70.5	07 13	25.7	44.8	02 32	646	07 15	281	365
19	09 17	852	10 41	565	287	04 12	71.8	09 12	40.8	31.0	09 05	650	14 17	486	164
20 Q	05 17	807	17 04	753	54	16 28	66.4	00 36	52.5	13.9	00 22	622	20 30	531	91
21 Q	07 58	789	19 18	746	43	17 03	66.7	09 03	54.9	11.8	00 05	593	09 05	545	48
22 Q	06 02	789	18 03	750	<u>39</u>	11 13	68.2	01 42	50.2	18.0	03 31	612	10 53	497	115
23 D	08 20	904	12 56	<u>-62</u>	<u>966</u>	11 58	<u>147.7</u>	14 29	<u>-4.1</u>	<u>151.8</u>	12 05	<u>894</u>	15 05	224	670
24	09 22	822	08 02	464	358	08 45	80.1	08 17	33.2	46.9	21 03	623	08 14	368	255
25	11 37	796	09 37	461	335	10 07	68.5	09 35	49.5	19.0	00 46	594	10 01	390	204
26	14 26	789	19 09	735	54	19 44	67.3	23 04	52.4	14.9	23 02	585	13 43	544	41
27	12 55	801	22 09	719	82	16 11	67.6	22 29	50.3	17.3	03 00	630	10 31	444	186
28	03 15	1120	09 35	559	561	01 38	84.8	02 47	24.6	60.2	03 51	775	08 32	356	419
29	06 33	858	14 04	687	171	16 03	69.2	00 18	48.3	20.9	06 34	650	10 48	481	169
30															
31															
Mean		847		580	267		80.6		42.3	38.3		650		425	225
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 1948

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 D	769	825	896	815	956	904	545	722	589	549	500	245	485	723	753	784	793	785	760	754	759	776	801	804	720	
2 D	808	787	761	769	785	783	783	771	679	673	429	214	715	784	779	789	773	773	754	753	753	769	792	835	730	
3	776	760	766	776	768	679	730	761	729	589	465	371	566	730	769	771	774	778	769	761	759	760	754	761	713	
4	767	774	777	778	777	784	789	785	751	661	777	785	777	765	777	785	781	770	755	747	747	754	760	770	766	
5	771	775	784	787	785	785	784	782	775	771	778	764	775	786	790	781	771	756	740	744	748	763	771	782	773	
6	785	784	783	784	782	778	778	784	752	626	732	786	724	746	791	767	774	727	719	723	733	763	765	774	757	
7	769	777	793	790	792	785	758	776	779	777	715	746	784	770	756	777	777	775	755	755	750	750	760	770	768	
8	779	785	786	786	786	784	778	786	786	789	791	794	785	732	755	771	771	762	763	755	747	747	756	770	773	
9	777	783	783	785	785	784	784	785	784	777	749	746	793	794	795	789	778	754	750	746	742	753	766	770	773	
10	777	781	785	785	785	789	785	785	785	785	786	786	786	784	777	781	776	762	739	735	737	739	753	766	773	
11	771	786	788	789	793	790	790	787	786	786	786	786	790	790	786	786	781	763	749	747	754	761	763	803	780	
12	778	764	790	810	821	799	794	823	763	712	733	751	611	581	647	669	771	756	747	747	748	755	767	776	746	
13 D	806	796	802	871	814	820	802	686	551	323	-21	152	336	508	644	725	729	729	697	751	754	841	841	863	659	
14 D	856	876	866	866	985	1012	546	653	708	529	539	572	634	727	734	708	735	700	704	740	810	796	806	799	746	
15 D	825	946	974	1043	907	337	357	221	032	250	-01	119	288	325	405	256	146	328	765	758	735	788	820	839	519	
16	811	790	796	772	780	780	782	759	751	755	755	757	757	761	759	753	741	731	725	732	741	736	750	761	760	
17	763	762	771	769	789	802	785	662	689	489	509	688	709	753	772	757	732	731	744	742	742	742	758	765	726	
18 Q	773	773	766	787	772	772	768	766	731	728	741	758	766	768	778	775	768	759	752	746	739	742	742	752	759	
19	767	761	757	768	775	782	804	741	666	768	778	781	782	782	782	781	771	759	748	740	743	743	748	757	762	
20	765	771	771	775	775	775	776	777	734	784	780	770	753	732	722	728	764	764	747	743	750	751	765	775	760	
21	779	775	781	781	790	790	807	802	790	721	736	781	796	790	797	792	771	764	757	747	743	753	750	752	773	
22	773	775	775	775	769	773	776	776	781	782	781	756	718	751	776	782	773	763	751	740	743	755	771	779	767	
23 Q	776	778	778	773	778	775	775	775	778	782	779	772	780	786	792	789	778	763	750	743	747	752	761	764	772	
24 Q	776	781	781	781	778	777	780	781	786	784	784	784	781	765	774	788	779	759	741	728	737	751	760	768	771	
25 Q	776	781	780	782	782	782	783	785	790	790	790	790	790	792	796	799	799	789	771	748	745	750	757	764	775	779
26	781	781	783	785	786	784	786	790	790	797	801	796	799	798	743	735	781	767	743	737	743	747	767	780	775	
27	774	776	772	774	783	786	763	791	790	790	790	781	781	781	768	755	758	758	748	751	754	766	766	769	772	
28	790	776	767	777	777	778	782	786	774	781	774	758	762	776	781	758	772	755	733	719	729	739	754	776	766	
29 Q	776	777	782	781	782	781	782	782	783	784	785	782	776	760	774	777	755	739	719	716	734	756	760	757	767	
30	776	791	783	781	797	799	807	811	784	777	666	703	776	775	775	776	773	758	744	751	741	729	741	762	766	
31	786	785	784	825	830	798	799	790	790	789	789	790	787	795	797	797	797	784	772	758	743	755	762	786	787	
Mean	782	788	792	797	802	779	753	751	724	700	671	673	715	739	753	751	749	743	745	744	747	758	768	779	750	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

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

Table 10 Meanook

D = 24° E + ...'

March 1948

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	52.4	52.7	54.1	58.9	51.5	56.7	28.1	68.1	71.3	64.0	74.1	74.1	68.6	69.3	68.1	65.3	66.6	63.3	64.0	60.5	63.0	59.6	57.6	56.3	61.2
2 D	55.8	59.4	60.2	60.2	61.8	81.4	64.4	60.8	61.1	58.6	54.5	68.3	67.9	61.7	63.8	66.0	62.2	64.2	60.5	60.2	59.6	58.4	57.5	67.2	62.3
3	59.6	58.2	59.2	60.4	63.6	65.2	67.3	61.9	57.6	62.2	78.8	86.8	67.5	55.0	59.9	60.4	59.9	61.6	63.7	62.3	61.3	60.3	58.4	58.3	62.9
4	59.3	57.6	57.7	58.5	60.6	64.6	58.9	59.3	60.1	52.6	64.2	60.6	59.4	60.8	59.7	63.0	66.3	65.3	62.4	61.3	59.7	58.0	57.7	55.6	60.1
5	55.6	57.1	58.5	58.4	58.3	58.2	58.0	61.7	58.5	62.0	62.7	62.3	59.1	64.5	63.4	63.4	62.6	60.0	61.5	57.2	56.7	58.0	58.1	57.8	59.7
6	57.2	57.7	58.0	58.0	58.5	59.2	58.4	58.6	61.6	65.0	64.5	62.9	56.4	56.1	63.4	60.4	64.3	62.5	57.7	56.1	56.6	55.7	55.0	54.9	59.1
7	56.8	57.6	58.9	59.7	65.0	58.7	53.9	61.6	60.1	59.6	51.3	56.7	62.3	62.7	55.6	59.0	60.9	60.5	60.0	58.7	57.6	57.3	57.1	56.4	58.7
8	56.5	57.2	57.7	58.2	58.4	58.6	61.7	59.6	58.5	58.6	59.4	59.6	56.9	50.4	58.6	61.0	59.5	57.7	54.2	54.8	53.6	52.7	54.7	56.5	57.3
9	57.3	57.7	58.1	58.4	58.4	58.4	58.4	60.2	66.5	61.6	56.7	55.7	62.4	62.3	64.0	64.9	63.6	61.9	61.3	59.2	55.2	55.9	55.2	57.1	59.6
10	57.8	58.0	58.4	57.8	61.0	58.7	57.7	59.5	59.6	60.4	60.7	60.7	60.7	61.9	63.0	66.0	66.9	63.4	62.3	57.7	56.0	55.4	55.7	55.5	59.8
11	56.2	55.9	56.2	58.9	58.0	57.8	57.7	57.7	58.4	58.8	59.6	60.0	60.1	60.8	64.0	66.4	68.1	68.1	65.6	62.2	58.4	56.8	53.3	51.3	59.6
12	54.6	55.4	57.3	60.9	65.8	57.3	53.5	62.8	54.9	59.5	60.8	58.8	60.6	66.9	70.7	70.4	68.7	66.5	60.6	57.8	55.0	54.2	55.0	55.7	60.2
13 D	54.9	54.3	55.5	52.2	57.4	56.0	59.5	67.7	70.6	67.8	28.9	75.4	67.1	90.1	63.0	70.6	63.7	62.3	50.0	52.8	55.7	58.7	59.1	55.2	60.4
14 D	57.1	55.2	57.5	59.3	72.4	59.0	34.5	38.1	58.0	54.2	64.6	67.2	69.3	68.8	73.0	74.3	65.5	69.3	64.9	63.7	61.7	58.7	54.2	55.5	60.7
15 D	53.9	53.6	57.9	78.7	39.5	18.4	10.5	43.2	46.0	57.4	45.0	57.0	87.8	84.4	77.7	57.9	54.4	74.0	60.7	57.5	49.8	56.9	56.9	61.2	55.8
16	58.7	58.4	54.4	59.0	60.5	60.8	64.5	60.6	59.7	59.7	60.0	60.4	60.8	62.5	66.5	70.2	71.0	68.4	65.3	62.1	59.3	56.3	56.3	55.7	61.3
17	55.0	55.9	56.2	57.1	54.9	55.1	58.1	50.3	66.5	70.8	71.8	69.0	61.3	61.6	64.6	68.1	71.2	66.2	64.5	62.2	59.0	57.6	56.2	54.9	61.2
18 Q	56.3	56.3	59.9	64.2	57.8	57.8	58.8	58.7	56.8	58.4	57.5	57.8	57.7	59.0	62.3	67.5	68.4	69.7	65.9	62.5	60.6	57.7	55.9	55.8	60.1
19	56.7	57.7	56.3	56.8	58.3	58.7	70.1	64.2	81.3	68.6	61.4	61.0	61.6	62.6	64.4	66.5	69.2	69.2	66.6	64.7	59.6	58.7	57.0	55.9	62.8
20	56.2	55.9	56.9	57.2	57.9	57.8	58.3	58.8	61.6	66.9	61.7	59.2	57.7	60.9	60.2	62.2	64.6	67.2	67.0	64.5	61.5	56.7	54.9	53.3	60.0
21	53.2	55.6	58.8	59.7	57.6	57.5	75.7	60.6	55.5	60.2	60.9	62.1	63.7	65.5	66.9	68.6	67.8	66.6	66.6	60.2	56.7	54.8	54.8	54.9	61.0
22	56.8	57.1	57.9	58.5	59.8	58.8	58.8	61.8	62.0	61.4	59.3	57.6	50.9	55.5	60.4	65.3	67.5	66.5	64.8	61.7	57.7	55.0	53.9	53.9	59.3
23 Q	56.9	57.8	61.3	57.9	58.0	58.0	58.0	58.7	58.8	58.8	59.6	57.2	57.4	60.0	63.7	67.0	69.3	69.3	67.4	63.8	59.8	55.8	55.1	55.8	60.2
24 Q	56.9	56.6	56.9	56.9	58.4	58.8	59.8	58.8	57.8	59.0	58.6	58.3	57.1	56.2	59.5	65.9	69.0	68.8	65.8	61.9	57.9	55.9	55.9	56.7	59.5
25 Q	57.1	57.1	57.3	57.9	58.0	58.1	58.7	58.6	58.0	58.0	58.6	58.9	58.7	60.8	63.5	67.6	70.2	69.5	67.0	60.8	55.6	53.1	54.0	55.1	59.7
26	56.1	56.2	56.9	57.3	57.7	57.9	57.9	57.9	58.0	58.1	58.5	59.5	60.0	58.6	58.4	59.6	67.4	70.3	69.5	64.0	58.4	54.8	52.4	50.3	59.0
27	50.9	53.0	54.2	57.9	58.1	64.1	70.6	59.8	57.9	58.8	60.1	60.9	61.5	63.5	64.8	64.8	65.3	65.3	61.5	58.1	55.1	53.8	53.9	54.2	59.5
28	52.1	52.0	53.7	57.0	57.1	57.2	57.3	58.7	64.2	65.0	62.4	60.0	62.6	65.6	68.1	65.6	66.5	65.7	61.3	56.3	53.5	52.0	51.6	53.0	59.1
29 Q	55.5	56.0	55.5	55.7	56.8	57.5	56.9	56.8	58.5	59.9	59.4	59.1	59.7	59.5	66.4	70.0	69.4	68.0	64.2	55.8	49.8	49.4	48.0	48.8	58.2
30	51.0	53.8	54.8	56.5	57.6	56.1	58.4	65.5	61.0	71.5	60.7	68.8	62.6	64.6	67.2	67.2	66.3	67.5	62.2	60.6	59.3	53.8	50.4	52.6	60.4
31	52.2	51.0	49.8	52.1	59.0	56.6	57.8	58.6	59.1	59.4	60.7	61.8	63.3	64.2	67.5	70.3	72.5	70.3	65.3	61.9	55.6	55.3	53.4	50.9	59.5
Mean	55.7	56.1	57.0	58.7	58.6	58.0	56.8	59.0	60.6	61.2	59.9	62.5	62.0	63.1	64.3	65.7	66.1	66.1	63.0	60.1	57.4	56.0	55.1	55.4	59.9

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

Table 11 Meanook

$Z = 58,500 \gamma +$

March 1948

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	598	659	661	647	681	549	501	561	529	471	443	507	483	498	507	572	583	575	565	576	594	619	629	613	568
2 D	643	603	574	575	590	587	576	571	481	488	268	388	437	557	549	565	568	571	562	576	583	591	616	644	548
3	610	573	567	568	590	545	502	555	513	320	231	234	391	525	542	557	557	567	578	573	571	573	572	575	516
4	569	562	553	564	565	566	543	544	521	421	514	543	540	532	548	550	552	548	553	554	561	563	565	564	546
5	550	548	548	548	548	549	549	557	542	442	498	501	503	524	536	548	546	548	547	557	565	563	555	551	538
6	553	545	546	547	548	549	555	549	500	417	431	522	479	474	526	502	524	534	546	552	560	572	565	572	528
7	559	551	557	563	563	558	497	518	535	528	462	451	504	521	514	521	537	548	548	556	558	553	551	548	533
8	542	542	542	542	542	543	547	545	541	539	537	539	531	468	469	501	501	502	520	525	548	555	549	550	530
9	542	540	540	541	540	539	537	530	498	530	498	466	522	540	544	537	532	531	537	544	554	555	554	550	533
10	540	540	541	541	548	543	535	535	535	526	535	530	529	529	528	530	538	530	535	545	548	556	551	545	538
11	534	535	535	540	536	533	530	530	529	526	524	525	530	534	535	533	530	523	527	533	536	536	538	562	533
12	593	545	562	617	607	560	465	452	488	479	517	525	476	452	481	440	506	532	544	548	550	548	548	551	524
13 D	564	580	525	647	588	581	507	469	406	488	474	474	546	489	516	520	469	481	549	548	567	611	569	605	532
14 D	609	622	622	623	514	388	406	505	514	496	515	483	471	511	502	505	530	540	559	600	616	606	613	600	540
15 D	619	651	621	536	232	430	568	783	665	824	689	910	742	737	313	306	414	419	552	583	576	565	579	599	580
16	567	553	581	584	584	587	582	555	550	550	550	548	548	549	549	550	547	547	543	550	553	553	553	557	558
17	554	554	554	561	592	530	571	495	491	422	518	420	484	523	540	544	530	525	540	540	547	550	560	529	529
18 Q	554	549	554	547	537	537	538	535	483	483	488	494	503	511	530	531	527	527	533	530	530	537	536	541	526
19	545	552	551	543	544	545	543	403	383	479	516	524	525	528	527	527	518	521	525	521	527	520	521	523	517
20	520	522	520	518	518	518	518	518	445	479	502	473	464	335	445	448	475	502	518	527	531	531	531	530	495
21	529	520	540	532	532	541	527	519	519	484	474	493	503	511	513	513	509	508	514	506	511	513	515	514	514
22	511	511	511	521	521	512	506	509	503	491	504	483	441	475	500	507	510	511	513	508	513	524	524	521	505
23 Q	517	517	514	509	506	501	501	503	503	501	492	480	479	495	511	506	506	501	503	506	506	509	511	509	504
24 Q	506	506	503	504	504	508	506	501	490	484	489	489	492	491	495	501	500	498	498	494	495	500	500	499	498
25 Q	497	497	495	495	494	492	492	492	492	492	492	490	488	495	496	497	496	495	496	491	492	490	492	495	493
26	495	486	487	489	490	489	489	489	489	488	488	482	484	487	449	412	447	476	487	490	492	498	519	536	485
27	532	531	514	500	506	467	435	487	491	490	488	486	491	492	482	474	474	474	482	485	491	498	500	508	491
28	511	520	510	493	488	487	489	492	477	467	457	416	418	457	470	457	461	470	477	487	491	496	498	498	479
29 Q	495	494	499	504	504	498	491	491	482	482	482	479	474	461	474	474	475	477	476	479	486	487	503	497	486
30	496	513	521	515	526	547	529	490	501	470	410	393	455	468	464	461	469	480	483	490	493	498	493	490	486
31	490	502	517	543	545	511	511	494	491	486	481	478	478	482	477	474	473	470	475	481	478	481	491	491	491
Mean	547	546	544	547	535	525	518	522	503	492	483	491	497	505	501	502	510	514	525	531	536	540	541	545	521

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12 Meanook

March 1948

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum			Minimum			Range	Maximum			Minimum			Range	Maximum			Minimum			Range
	12,000 $\gamma$ +		$\gamma$	12,000 $\gamma$ +		$\gamma$		24° E +		'	24° E +		'		58,500 $\gamma$ +		$\gamma$	58,500 $\gamma$ +		$\gamma$	
h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1 D	05	03	1053	11	47	-30	1083	11	02	100.5	06	13	-71.8	172.3	06	05	878	05	00	259	619
2 D	23	23	886	11	14	-90	976	11	09	101.0	10	56	21.9	79.1	00	27	698	10	47	080	618
3	00	03	843	11	04	212	631	10	58	116.4	05	43	36.2	80.2	12	55	649	10	51	034	615
4	06	48	805	09	47	600	205	17	18	68.4	09	12	44.8	23.6	05	26	579	09	20	333	246
5	14	45	815	18	44	728	87	09	30	68.4	08	55	43.2	25.2	20	12	573	09	17	398	175
6	11	01	813	09	33	515	298	09	24	74.7	13	01	48.8	25.9	21	14	586	09	31	299	287
7	02	59	806	10	42	688	118	04	08	69.4	06	47	46.2	22.7	03	03	575	10	46	413	162
8	11	03	796	13	42	708	88	06	10	63.6	13	28	46.0	17.6	22	48	559	13	47	409	150
9	12	07	809	11	12	692	117	08	22	71.2	10	58	47.5	23.7	20	57	560	11	18	420	140
10	15	59	803	18	52	715	88	16	41	70.7	23	35	53.7	17.0	21	17	567	17	30	518	49
11	23	26	828	21	41	724	104	16	48	69.5	23	47	48.8	20.7	24	00	597	17	45	521	76
12	07	05	899	12	48	432	467	13	49	82.0	06	57	42.2	39.8	03	42	646	06	47	260	386
13 D	23	55	993	11	40	-203	1196	11	42	135.3	11	50	-27.2	162.5	12	00	852	10	45	162	690
14 D	05	06	1186	06	45	153	1033	06	20	105.3	06	48	-62.0	167.3	07	08	820	06	28	125	695
15 D	03	05	1185	11	36	-189	1374	08	33	153.1	10	22	-68.6	221.7	10	12	1212	10	50	122	1090
16	00	11	859	18	52	720	139	16	28	73.3	02	39	47.5	25.8	02	43	623	02	34	530	93
17	05	22	816	09	53	269	547	10	00	112.4	10	31	40.8	71.6	05	34	654	09	26	349	305
18 Q	03	22	804	08	44	675	129	03	12	73.2	08	45	53.9	19.3	00	52	570	08	46	427	143
19	06	35	829	08	02	551	278	08	42	95.8	07	45	50.0	45.8	06	30	575	08	04	230	345
20	07	42	796	08	34	646	150	17	43	72.6	23	21	51.1	21.5	23	23	545	08	23	335	210
21	06	05	874	10	02	594	280	06	14	87.5	10	07	47.7	39.8	06	08	581	09	38	462	119
22	15	18	797	12	29	690	107	17	17	69.5	12	25	47.2	22.3	22	34	535	12	32	411	124
23 Q	13	30	798	20	01	739	59	17	25	70.4	21	25	52.8	17.6	02	17	528	12	12	468	60
24 Q	15	56	794	19	48	722	72	16	28	69.9	13	44	55.1	14.8	05	51	517	09	22	471	46
25 Q	15	11	808	19	05	742	66	16	13	71.7	21	50	50.8	20.9	02	46	500	11	55	486	14
26	10	35	811	14	54	690	121	18	03	73.5	23	16	49.2	24.3	23	48	544	15	34	399	145
27	05	18	821	06	22	737	84	06	11	84.2	01	03	48.5	35.7	01	09	545	05	48	365	180
28	08	05	797	19	55	715	82	09	12	69.8	01	55	50.0	19.8	01	29	524	12	00	383	141
29 Q	08	33	798	19	26	705	93	16	04	72.0	23	06	46.0	26.0	04	36	509	13	19	445	64
30	07	15	873	10	51	408	465	07	23	79.3	10	39	40.0	39.3	05	15	558	10	50	246	312
31	23	42	856	20	37	719	137	16	17	75.9	23	45	40.6	35.3	04	21	559	18	00	463	96
Mean			859			515	344			83.9			33.0	50.9			620			349	271
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 1948

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	798	822	824	825	880	820	725	699	716	627	753	772	782	754	773	776	776	755	745	735	728	748	768	780	766	
2	777	783	771	776	783	758	768	779	779	762	564	738	791	782	777	783	778	761	746	741	736	746	770	784	760	
3	790	784	783	783	801	781	782	759	745	744	721	747	783	797	796	791	765	754	744	737	737	739	751	760	766	
4	772	780	778	783	783	776	757	741	692	774	777	776	790	801	801	800	789	772	762	751	748	753	762	768	770	
5 Q	776	779	785	791	775	782	785	786	788	787	785	786	790	791	789	785	769	754	744	737	737	749	760	772	774	
6 D	779	783	783	781	796	790	790	783	788	790	798	801	804	804	808	801	793	774	755	739	737	751	783	779	783	
7	783	782	805	791	804	806	785	789	783	781	784	779	778	783	774	767	758	747	748	736	744	766	767	766	775	
8 Q	774	776	769	776	770	769	769	770	776	783	782	781	785	788	789	782	769	749	736	737	741	744	753	768	768	
9 Q	773	776	778	780	780	780	782	782	776	777	783	784	786	787	786	780	765	743	731	734	744	744	752	776	770	
10	790	798	789	780	777	782	778	779	785	788	790	791	790	773	765	765	744	737	735	741	744	740	761	772	771	
11	786	772	793	798	808	793	784	784	783	783	777	785	789	786	784	785	769	760	751	744	738	734	745	765	775	
12	783	792	778	784	800	822	799	768	735	734	676	745	769	791	772	759	730	731	744	744	746	751	752	753	761	
13	776	783	821	852	819	801	792	796	776	776	761	732	772	781	783	776	772	759	723	714	725	754	742	756	773	
14	836	868	808	797	800	786	781	780	778	776	785	783	758	783	783	770	751	762	753	751	744	748	758	752	779	
15	764	778	789	790	811	811	777	739	776	783	789	790	791	781	754	694	684	696	721	752	734	722	722	735	758	
16 Q	754	771	772	774	776	776	782	783	784	786	787	777	768	785	807	808	795	776	779	762	755	752	751	757	776	
17	769	777	784	775	782	780	784	787	788	789	790	787	791	792	794	785	780	769	745	749	750	752	752	759	775	
18	770	778	779	782	782	784	787	790	782	781	777	786	784	789	785	773	769	757	752	747	753	752	760	759	773	
19 Q	763	777	780	785	785	786	790	792	794	799	799	795	770	762	789	790	774	769	753	748	762	764	775	777	778	
20	817	770	767	786	792	798	799	799	802	799	810	812	813	825	824	813	802	778	757	764	770	774	785	875	797	
21 D	1038	1113	996	764	785	771	751	785	774	774	778	776	778	772	764	755	742	740	739	774	743	752	752	759	802	800
22 D	862	898	1093	1256	894	735	524	558	392	464	440	462	231	332	627	781	764	744	723	799	823	827	832	822	703	
23	809	803	771	771	793	770	761	760	762	767	762	755	717	731	749	768	758	753	754	753	756	753	758	758	762	
24	762	780	784	789	793	827	766	782	778	778	770	766	762	776	798	799	787	774	768	757	758	765	820	824	782	
25	809	774	801	800	847	789	776	785	744	708	715	725	700	752	774	771	771	755	725	731	746	750	754	765	761	
26	762	771	771	774	774	774	777	778	780	728	559	674	764	725	695	663	711	755	743	740	732	756	747	778	739	
27	805	821	799	784	805	794	702	746	709	710	775	780	786	742	763	762	760	739	721	729	756	754	778	776	762	
28	766	778	793	790	799	795	786	752	783	776	772	778	754	762	783	771	762	754	756	754	756	757	768	771	772	
29 D	767	775	779	782	782	805	764	546	765	818	808	812	812	789	780	758	777	775	754	745	746	738	747	771	766	
30	784	787	796	793	790	787	793	802	723	597	670	772	789	811	813	807	793	790	773	771	790	780	788	755	773	
31																										
Mean	793	801	804	803	799	788	767	759	755	751	745	762	759	764	776	774	765	756	746	746	750	754	764	774	769	

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

Table 14 Meanook

D = 24° E + ...'

April 1948

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	50.0	52.4	56.0	59.0	67.1	66.6	63.3	72.4	72.0	60.5	58.7	58.6	59.6	60.6	61.8	66.6	67.9	69.5	65.7	63.2	57.0	55.4	54.8	55.6	61.4	
2	55.5	55.9	58.7	59.5	63.5	67.0	64.7	60.9	61.5	59.5	49.5	59.4	61.1	62.8	65.2	65.4	67.8	67.6	66.0	60.4	54.5	52.8	51.2	49.1	60.0	
3	51.0	62.5	62.5	60.0	61.8	58.2	59.8	56.3	56.3	60.9	68.6	59.8	64.3	61.6	64.4	67.2	68.3	65.8	64.6	61.6	57.4	54.7	53.6	53.0	60.6	
4	53.9	55.2	55.9	57.4	61.9	60.1	65.5	68.1	72.6	64.5	63.5	58.4	59.4	61.2	63.5	63.6	65.4	66.3	64.1	62.2	55.9	53.2	53.3	54.4	60.8	
5 Q	55.1	56.0	56.5	57.6	60.7	57.8	57.5	57.7	59.8	60.6	58.6	58.7	59.5	60.4	61.4	65.9	65.4	66.8	63.1	59.6	55.5	52.2	52.3	53.5	58.8	
6 D	54.7	55.7	56.6	56.5	56.8	61.0	66.3	59.3	60.6	59.5	59.6	58.8	60.6	61.2	62.6	64.3	66.5	71.1	52.0	63.4	44.3	46.7	49.7	53.0	58.4	
7	51.7	52.9	50.7	51.8	51.9	54.3	55.7	56.5	58.2	58.4	60.3	60.6	62.3	65.8	68.0	68.9	68.3	66.6	64.2	62.6	59.2	53.7	52.4	52.6	58.6	
8 Q	53.7	54.5	56.7	56.5	57.2	57.4	57.4	58.3	59.5	59.3	58.2	57.8	58.6	60.4	63.2	66.8	68.8	68.0	63.4	58.9	55.5	53.5	52.6	52.5	58.7	
9 Q	53.5	54.6	56.3	57.2	57.4	57.3	57.2	57.1	56.3	56.5	58.2	59.3	60.4	62.1	65.1	69.1	71.7	71.9	66.7	63.4	57.4	53.3	49.8	49.7	59.2	
10	49.3	49.4	53.7	53.4	57.2	57.4	57.1	57.9	58.1	57.9	57.7	58.3	60.1	60.9	65.1	69.5	72.8	71.1	62.3	58.0	55.4	50.9	48.4	46.8	57.9	
11	48.4	50.6	52.3	52.6	57.0	51.9	57.9	59.1	57.9	57.5	58.0	59.0	60.9	62.2	65.7	67.4	69.0	68.0	67.3	61.3	56.4	52.3	50.1	48.4	58.0	
12	49.5	51.3	52.8	52.4	54.2	55.0	57.8	61.5	64.8	62.6	69.5	64.7	65.8	65.0	67.0	70.6	66.8	62.9	65.2	56.0	54.4	54.1	51.5	49.2	59.4	
13	55.4	57.0	71.4	67.8	66.2	62.1	61.2	61.6	59.8	59.3	57.0	60.0	63.9	64.2	65.1	69.5	70.2	70.2	67.1	61.6	51.7	48.4	47.2	46.0	61.0	
14	41.3	51.6	53.1	59.3	54.5	57.0	56.7	56.4	57.2	57.6	56.4	54.0	55.5	62.4	64.3	66.3	67.7	62.5	63.2	58.9	55.2	53.2	50.9	51.1	56.9	
15	52.1	54.0	55.9	56.1	54.0	58.5	60.1	72.1	63.8	58.0	58.5	58.8	60.0	62.3	64.7	69.0	63.1	56.5	50.0	62.4	57.7	54.9	53.7	53.9	58.8	
16 Q	54.5	54.9	55.5	55.9	55.9	56.5	56.5	56.6	58.1	57.7	57.6	56.6	56.7	63.9	65.5	67.4	67.0	65.8	60.5	58.7	53.8	54.1	53.3	52.5	58.1	
17	52.7	54.1	55.6	54.4	54.5	54.8	55.0	55.7	56.6	56.7	57.1	58.1	60.4	62.9	66.2	67.4	68.1	65.0	60.6	54.6	53.6	52.0	51.4	50.9	57.4	
18	51.6	53.3	53.7	54.2	55.9	56.5	56.4	56.8	68.0	59.9	60.2	59.4	59.9	62.3	64.3	65.2	65.7	62.7	56.5	54.9	51.7	53.7	52.2	52.7	57.8	
19 Q	53.8	53.3	54.5	55.3	55.4	55.0	55.4	55.6	56.4	55.6	55.4	54.9	56.4	63.2	68.2	67.3	65.2	62.3	60.1	61.1	60.2	57.2	55.6	53.6	58.0	
20	50.0	53.6	54.5	53.4	56.3	58.4	56.2	58.7	59.5	55.5	56.9	58.6	62.0	65.0	68.6	67.9	68.1	62.8	59.0	53.7	53.5	53.5	52.2	49.0	57.8	
21 D	45.5	52.2	55.4	53.4	53.7	56.6	57.3	57.0	56.2	58.0	58.1	59.8	61.0	64.0	65.6	66.8	67.7	64.8	58.3	53.1	49.4	48.9	47.4	46.8	56.5	
22 D	46.7	43.0	54.1	53.1	24.4	32.9	35.7	41.9	44.4	58.0	57.0	65.8	55.4	80.7	69.7	69.0	68.7	62.4	51.9	49.0	48.5	47.9	47.3	47.5	52.3	
23	48.8	52.6	54.2	55.7	56.8	54.0	55.0	55.2	53.2	56.0	56.6	57.9	57.0	61.1	64.7	63.9	64.4	63.5	58.0	55.2	52.3	50.9	50.4	50.5	56.2	
24	51.8	51.4	53.1	53.8	51.2	51.9	61.5	56.2	56.7	56.4	56.0	56.7	57.6	63.5	66.6	66.5	65.3	64.2	61.4	56.0	52.3	51.3	50.4	52.4	56.8	
25	50.5	52.1	52.9	53.2	53.8	55.7	55.9	53.3	56.9	59.8	62.5	62.8	63.7	65.7	65.2	68.6	69.3	63.3	66.6	51.2	56.0	55.0	52.3	51.9	58.3	
26	52.6	53.1	53.7	54.2	55.3	56.0	55.9	56.1	56.2	58.5	82.1	74.0	68.0	69.1	71.2	71.4	71.9	60.0	57.0	56.8	51.8	52.3	51.8	49.8	60.0	
27	51.8	49.9	53.9	54.2	53.6	53.7	48.3	53.2	61.7	54.9	58.0	60.0	58.9	61.7	63.9	65.3	65.9	66.5	59.1	59.9	58.0	53.2	52.0	50.3	57.0	
28	50.0	51.0	50.9	56.4	64.0	55.9	56.2	54.5	57.0	56.5	53.1	56.8	58.0	60.7	65.6	66.1	63.9	62.9	59.7	57.7	55.9	52.9	47.9	46.4	56.7	
29 D	47.9	50.1	53.6	54.8	61.0	58.0	53.8	62.4	59.1	59.9	61.2	61.1	63.3	60.5	65.4	64.6	64.5	62.2	59.3	56.5	54.9	49.3	48.6	50.0	57.6	
30	49.2	51.3	52.1	52.9	56.2	54.2	54.9	62.9	67.1	65.4	65.5	63.9	64.0	63.5	60.8	61.6	62.2	63.4	61.9	57.6	55.3	55.0	53.6	52.7	58.6	
31																										
Mean	51.1	53.0	55.2	55.7	56.3	56.4	57.1	58.4	59.5	58.7	59.7	59.8	60.5	63.4	65.3	67.0	67.3	65.2	61.2	58.3	54.5	52.6	51.3	50.9	58.3	

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

Table 15 Meanook

Z = 58,500  $\gamma$  +

April 1948

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	512	556	582	580	495	516	458	407	365	331	436	465	474	485	476	479	484	487	490	495	503	502	515	527	484
2	503	513	494	489	491	468	502	483	467	446	211	397	462	470	475	481	487	482	483	481	481	480	484	498	468
3	501	531	522	518	494	492	442	430	394	406	347	358	433	479	487	491	484	485	495	487	479	474	474	476	466
4	475	477	478	477	476	472	401	411	291	380	428	431	443	469	471	472	468	468	467	469	468	470	476	475	451
5 Q	468	469	471	476	478	474	471	467	464	468	466	467	470	470	471	465	465	466	462	462	464	470	470	473	469
6 D	473	472	470	473	472	469	462	451	450	431	440	464	465	468	468	461	459	464	462	477	493	470	464	461	464
7	460	461	471	473	490	500	472	466	465	460	464	458	460	460	460	461	462	461	463	464	487	514	516	507	473
8 Q	483	475	470	470	469	467	463	464	466	451	462	462	466	470	473	472	469	467	467	471	474	472	470	470	468
9 Q	462	463	462	462	459	460	456	456	443	438	440	453	457	459	458	459	458	456	463	467	473	476	476	483	460
10	488	493	489	491	475	471	463	460	459	456	460	461	458	447	427	424	445	461	456	457	459	463	476	491	464
11	514	485	479	498	525	523	488	476	472	468	456	429	456	457	455	454	456	456	460	459	462	467	468	474	472
12	478	485	486	499	509	521	499	448	442	444	388	430	433	459	453	441	435	459	476	458	457	473	488	498	465
13	504	510	528	540	530	514	496	494	475	459	402	446	425	440	425	449	468	455	459	465	475	486	486	481	476
14	516	563	552	475	512	489	478	475	467	465	456	456	414	456	470	469	465	458	458	457	461	469	479	470	476
15	468	469	472	482	515	497	451	403	440	460	467	472	471	460	437	388	403	429	472	485	473	477	480	480	460
16 Q	476	478	471	470	469	468	465	463	457	453	453	453	437	442	452	458	458	455	463	458	463	464	466	469	461
17	477	477	478	469	466	461	460	463	457	457	457	459	460	460	457	453	453	454	450	451	453	454	454	459	460
18	462	462	459	458	458	459	461	455	433	452	440	453	462	464	459	454	453	454	451	451	454	455	462	459	455
19 Q	458	459	461	461	456	457	457	457	457	454	454	453	427	403	421	442	446	445	462	462	454	455	466	478	452
20	492	473	462	456	473	473	453	456	456	456	450	452	452	451	465	453	452	456	462	467	465	475	482	535	465
21 D	568	293	500	496	498	492	479	469	463	462	454	463	468	471	469	465	458	459	459	462	466	466	474	489	468
22 D	532	581	609	339	175	404	361	494	542	491	562	548	678	447	395	458	477	477	499	518	531	530	518	517	487
23	532	526	500	491	505	489	468	475	478	476	474	471	437	444	453	467	471	472	476	478	473	476	482	483	479
24	482	482	481	488	503	513	463	492	487	479	466	450	422	431	460	461	462	463	465	466	470	470	503	528	474
25	534	511	512	508	532	511	483	485	477	382	366	394	420	436	469	471	465	471	470	478	489	497	491	491	473
26	484	474	468	466	467	466	468	471	467	383	290	321	424	418	410	416	439	477	461	468	474	476	481	493	444
27	514	511	510	501	511	488	348	427	384	342	432	453	470	447	474	483	479	481	468	477	492	487	488	487	465
28	481	481	484	500	519	508	465	433	459	436	427	445	453	457	470	469	468	476	476	476	485	492	492	498	473
29 D	491	478	481	482	485	487	458	217	432	482	468	465	467	464	466	453	464	461	465	469	472	481	478	485	460
30	483	487	477	480	485	472	471	456	383	322	313	410	447	470	482	484	487	473	471	480	482	481	490	473	457
31																									
Mean	492	486	493	482	480	483	459	450	446	436	428	445	457	455	457	458	461	464	468	470	474	477	482	487	466



DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16 Meanook

April 1948

Day	Horizontal Intensity						Declination						Vertical Intensity					
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range	Maximum 24° E +		Minimum 24° E +		Range	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range			
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$		$\gamma$		
1 D	04 31	952	09 27	547	405	07 14	85.0	00 53	40.7	44.3	03 37	610	09 28	275	335			
2	23 38	824	10 27	466	358	04 41	78.0	10 31	33.7	44.3	04 38	537	10 28	069	468			
3	04 20	850	10 06	668	182	04 36	89.6	00 38	47.5	42.1	01 24	552	10 56	275	277			
4	15 34	810	08 18	626	184	08 08	81.6	22 17	52.0	29.6	01 13	487	08 24	214	273			
5 Q	03 26	808	20 18	730	78	17 21	68.8	21 40	51.5	17.3	04 12	487	19 29	456	31			
6 D	04 02	850	20 48	707	143	19 59	86.8	20 37	34.6	52.2	20 26	516	09 55	421	95			
7	02 26	838	20 07	719	119	16 51	78.5	02 36	46.7	31.8	05 30	527	09 16	447	80			
8 Q	13 51	792	19 03	729	63	16 20	70.9	22 06	51.3	19.6	00 13	508	09 17	439	69			
9 Q	23 57	798	19 18	728	70	17 06	74.6	24 00	47.8	26.8	23 55	497	09 09	419	78			
10	01 25	800	18 08	726	74	17 06	75.5	23 48	44.6	30.9	23 56	518	15 17	416	102			
11	04 14	837	21 07	728	109	16 22	70.1	00 04	45.4	24.7	05 07	551	11 12	413	138			
12	05 46	832	10 08	518	314	10 10	82.1	00 21	48.2	33.9	05 35	531	10 06	346	185			
13	03 46	883	11 03	692	191	03 25	73.2	23 56	41.5	31.7	03 46	575	11 10	329	246			
14	01 34	941	04 00	603	338	03 44	78.9	04 06	29.8	49.1	01 45	591	03 50	308	283			
15	04 52	836	16 37	667	169	07 13	80.9	18 05	38.6	42.3	04 41	526	07 18	367	159			
16 Q	14 28	816	20 04	737	79	15 55	69.5	20 34	51.6	17.9	01 27	487	12 49	422	65			
17	02 15	809	18 57	729	80	16 38	71.1	22 48	49.9	21.2	02 16	487	18 54	441	46			
18	13 17	808	19 36	736	72	08 34	71.8	20 12	50.2	21.6	09 11	471	08 50	421	50			
19 Q	14 53	805	13 13	737	68	15 00	70.9	24 00	52.3	18.6	24 00	484	13 17	378	106			
20	24 00	937	18 38	745	192	15 43	71.0	00 38	46.2	24.8	23 55	576	07 56	434	142			
21 D	01 50	1199	06 45	706	493	02 42	93.6	00 40	31.5	62.1	00 14	620	01 37	131	489			
22 D	03 42	1377	12 29	061	1316	13 24	127.4	04 34	-58.6	186.0	12 44	812	04 03	-19	831			
23	01 03	831	12 47	709	122	14 24	67.0	00 00	48.3	18.7	00 55	541	12 37	425	116			
24	05 57	850	06 36	739	111	06 08	71.3	06 40	46.3	25.0	05 53	547	12 07	413	134			
25	04 35	889	12 47	637	252	15 48	75.3	09 30	44.2	31.1	04 49	559	08 57	332	227			
26	24 00	840	10 05	470	370	10 46	89.6	23 55	47.2	42.4	23 55	515	10 46	221	294			
27	05 51	846	08 24	604	242	05 48	72.6	06 26	36.8	35.8	01 44	528	06 20	261	267			
28	04 49	818	07 04	690	128	04 13	71.1	07 03	44.2	26.9	04 13	541	10 08	393	148			
29 D	10 46	850	07 40	151	699	07 18	109.4	07 41	16.6	92.8	00 07	510	07 27	078	432			
30	07 45	842	09 56	518	324	10 07	79.4	00 26	47.3	32.1	22 32	513	09 45	252	261			
31																		
Mean		872		628	244		79.5		40.3	39.2		540		326	214			
No. days		30		30	30		30		30	30		30		30	30			

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

Table 17 Meanook

H = 12,000  $\gamma$  +

May 1948

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	765	789	783	787	782	782	786	786	786	780	786	771	788	787	777	781	779	764	747	740	747	767	768	756	774	
2	777	803	789	791	807	787	791	750	683	780	747	569	571	730	741	741	790	791	755	720	702	733	761	773	745	
3	801	781	819	847	794	796	789	758	757	737	753	730	645	727	764	771	778	747	766	772	762	766	748	763	765	
4	787	789	801	791	784	785	791	794	793	800	801	799	787	794	782	741	766	757	745	748	764	794	878	864	789	
5	788	774	766	768	773	777	780	782	785	783	784	784	784	780	782	776	756	752	776	784	790	794	804	811	781	
6	801	842	854	835	807	806	796	774	758	647	648	667	649	715	703	651	699	702	699	728	766	804	881	916	756	
7 D	870	882	812	785	788	781	482	612	316	320	367	425	664	794	826	809	752	727	741	752	734	761	797	794	691	
8	807	774	761	768	792	791	823	709	787	728	694	699	796	780	726	769	768	759	759	760	758	784	746	760	762	
9 D	762	769	791	784	783	775	782	792	512	520	475	551	570	538	646	812	793	757	809	792	783	770	767	767	712	
10	767	769	792	804	802	783	734	721	735	730	725	724	762	751	774	737	714	723	763	763	769	770	810	813	760	
11	820	818	774	792	796	782	774	736	617	684	688	778	803	791	791	799	778	736	735	763	775	764	779	853	768	
12	821	789	794	809	804	794	776	774	741	715	763	756	742	747	772	774	774	756	737	758	757	779	745	747	768	
13	835	967	894	881	891	814	783	769	757	609	609	724	663	791	796	799	792	776	763	750	751	753	750	756	778	
14	764	771	781	775	775	775	775	775	775	778	781	787	796	799	797	782	760	736	717	743	748	763	754	801	771	
15 D	881	884	849	914	836	609	466	512	604	552	363	367	544	707	821	809	802	770	757	768	836	801	888	1187	730	
16 D	906	1001	1253	1049	764	810	749	577	608	618	701	515	713	814	719	683	792	842	813	780	786	813	773	800	787	
17	780	751	761	761	768	778	779	778	778	765	764	737	757	763	760	761	748	734	726	737	746	753	790	841	853	766
18	839	828	845	798	792	782	769	766	748	758	765	773	775	771	762	726	704	714	742	757	761	798	791	797	773	
19 Q	776	766	767	766	766	770	775	774	782	780	780	753	749	749	752	772	766	761	759	762	764	766	758	759	766	
20 Q	740	786	792	788	784	784	782	786	781	777	770	749	723	711	721	754	748	734	725	733	745	768	799	809	762	
21 D	839	875	978	968	956	860	570	549	580	721	704	588	430	273	157	621	681	796	786	811	781	732	743	768	699	
22																										
23																										
24																										
25	857	848	829	833	819	824	779	769	761	748	723	711	692	703	727	766	779	787	740	731	742	755	791	815	772	
26 Q	842	875	820	788	770	767	770	773	775	770	774	764	765	746	749	731	735	754	742	741	751	756	756	771	770	
27	837	836	795	789	788	788	773	762	675	639	637	671	716	735	764	777	772	767	761	766	767	778	790	812	758	
28 Q	808	765	785	789	788	786	788	789	791	791	791	793	795	799	800	794	784	754	749	751	757	764	790	827	784	
29	809	844	957	887	791	789	782	768	772	788	780	724	492	704	685	708	805	812	772	764	779	774	830	825	777	
30	908	822	832	845	849	838	796	779	777	784	781	785	791	791	797	775	743	697	690	717	729	765	759	763	784	
31	776	779	779	779	783	795	800	790	768	789	807	797	820	842	847	811	793	797	780	786	780	782	808	866	798	
Mean	813	821	830	820	801	786	751	739	714	710	705	697	707	737	741	758	762	757	752	757	762	773	789	815	762	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

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

Table 18 Meanook

D = 24° E + ...'

May 1948

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	52.5	53.1	57.2	57.4	55.8	56.1	56.3	56.9	56.5	55.8	55.0	51.9	57.1	60.6	62.4	64.3	63.0	63.8	64.6	54.3	50.9	52.9	52.4	51.6	56.8
2	50.0	51.1	54.7	57.7	64.5	55.6	55.8	50.5	50.7	57.7	59.1	50.4	55.1	59.2	62.8	62.9	64.3	62.8	61.8	64.2	51.3	44.2	48.2	50.9	56.1
3	52.9	54.7	53.5	54.9	59.4	53.7	56.5	59.5	57.8	62.5	60.5	58.7	57.0	65.4	66.2	66.8	67.4	67.6	59.6	62.8	59.4	55.2	54.7	51.4	59.1
4	50.8	53.2	54.6	55.7	53.4	52.5	53.1	54.9	56.6	57.6	56.6	58.8	62.8	64.9	69.1	67.2	64.5	66.4	55.8	53.3	52.0	52.9	53.2	52.6	57.2
5	55.9	52.9	51.6	52.3	53.0	53.0	53.4	54.2	54.8	55.5	56.6	58.9	61.6	63.4	66.0	68.5	67.6	58.9	57.8	55.3	51.1	49.9	50.9	48.1	56.3
6	46.8	47.9	48.8	54.3	51.9	55.6	51.1	53.3	55.1	65.4	72.7	67.0	70.2	69.5	66.4	61.5	60.9	65.2	56.5	57.6	56.1	56.1	49.5	48.0	57.8
7 D	45.5	48.1	50.1	53.1	52.1	57.7	55.2	33.9	40.0	20.1	60.4	67.5	73.7	66.4	67.3	68.1	71.2	71.2	64.3	49.5	45.7	47.4	47.2	52.0	54.5
8	54.6	54.8	54.6	54.7	55.0	54.8	54.3	56.7	55.2	55.8	56.0	62.6	63.6	62.5	69.3	71.8	70.3	67.4	61.1	56.6	52.7	48.8	48.7	49.3	58.0
9 D	51.3	52.8	52.8	54.7	55.4	54.6	55.4	53.8	23.4	40.7	50.5	65.9	57.5	62.4	77.1	73.3	77.3	71.2	63.8	61.5	58.9	53.0	51.6	52.0	57.1
10	50.4	52.8	56.1	58.9	56.9	55.6	53.6	58.0	59.7	55.9	54.7	53.9	59.5	62.3	66.8	70.5	75.4	72.9	68.2	59.9	54.2	53.1	52.5	49.7	58.8
11	52.2	55.0	55.3	57.6	57.8	58.9	57.6	55.6	62.7	54.9	56.0	56.0	59.4	61.8	66.3	70.1	70.7	72.3	62.9	61.2	57.0	51.8	48.5	48.9	58.8
12	50.1	51.8	54.1	56.4	69.0	60.7	57.0	55.7	55.3	58.6	53.4	54.9	59.0	62.7	68.7	70.4	68.5	67.5	59.9	55.8	53.0	53.6	48.9	51.7	58.2
13	56.5	56.8	70.5	64.2	58.1	53.6	52.8	50.9	53.0	45.9	58.8	57.0	61.6	62.9	67.6	70.1	70.9	69.2	65.5	59.5	54.7	51.7	50.6	50.0	58.8
14	50.4	51.9	52.9	54.7	54.1	55.7	55.8	55.9	56.6	56.6	58.4	60.1	62.5	64.7	67.5	68.1	68.7	66.6	62.8	51.9	48.0	52.0	54.0	52.2	57.6
15 D	52.0	59.2	49.3	54.1	55.4	44.6	44.6	54.4	57.7	54.9	60.6	52.8	76.5	72.6	69.4	71.2	69.4	66.4	61.7	61.3	61.7	56.9	55.5	68.3	59.6
16 D	57.2	54.0	65.9	52.4	31.0	11.2	37.6	45.2	61.6	61.1	59.5	45.5	68.6	69.7	70.3	76.1	72.0	69.8	63.5	59.9	53.2	58.4	54.2	53.8	56.3
17	53.5	53.0	51.5	52.7	50.5	52.2	56.4	57.4	57.9	56.5	55.7	59.2	62.5	66.3	67.7	67.3	66.1	59.5	52.6	50.2	50.8	51.8	51.8	49.3	56.4
18	47.9	48.8	50.3	49.0	50.8	50.6	51.7	48.8	50.1	51.4	52.3	55.7	59.4	63.3	66.0	68.3	66.4	61.6	58.5	51.1	48.5	49.9	51.0	50.7	54.3
19 Q	52.7	53.6	52.9	52.6	53.4	55.5	55.5	54.7	54.9	53.5	55.2	53.7	59.6	63.0	65.0	65.4	63.0	58.5	53.7	54.4	54.7	54.5	54.7	53.6	56.2
20 Q	53.1	53.5	52.5	52.6	55.1	52.3	54.3	53.0	54.1	57.3	62.4	59.4	60.0	63.6	64.4	64.8	66.9	66.7	61.2	53.9	51.7	51.2	50.5	49.9	56.8
21 D	49.8	45.8	45.8	51.0	50.5	55.5	54.3	52.4	61.6	57.7	57.7	48.4	57.5	83.2	76.4	62.6	70.4	65.3	66.2	59.9	54.4	53.5	53.7	56.7	57.9
22																									
23																									
24																									
25	56.7	56.3	57.9	62.2	64.9	65.2	67.5	66.8	66.7	63.2	65.4	62.7	71.9	68.5	68.5	68.8	70.4	64.6	55.7	52.4	52.1	52.1	52.4	53.0	61.9
26 Q	54.9	55.6	54.9	55.2	54.5	53.8	54.3	54.3	53.9	53.9	55.0	56.0	60.9	60.8	68.6	69.1	65.5	61.8	56.0	53.1	46.1	46.1	48.3	48.9	55.9
27	49.1	50.7	53.0	54.9	53.2	55.0	55.5	57.1	61.8	64.6	61.0	65.2	67.1	68.0	69.5	69.2	67.1	66.4	61.3	54.9	52.5	52.6	52.4	54.2	59.0
28 Q	52.0	53.3	52.7	53.0	52.8	54.5	54.1	54.1	55.2	55.9	57.0	58.9	61.8	64.0	66.6	68.3	70.7	64.7	57.7	52.5	47.6	45.3	47.1	47.2	56.1
29	50.6	46.3	44.6	50.8	54.4	54.4	55.3	55.6	56.9	52.6	51.6	51.8	52.7	71.4	66.3	65.3	67.3	69.7	62.2	52.9	48.1	48.1	51.1	50.3	55.4
30	53.2	55.3	57.6	56.6	59.2	53.9	57.3	54.6	55.4	54.9	53.8	55.5	59.9	65.5	70.0	71.0	72.4	66.5	47.9	46.7	45.9	45.9	45.7	46.1	56.3
31	49.6	51.1	51.6	52.2	53.9	55.6	56.9	54.0	61.0	60.6	56.9	56.3	64.0	66.7	66.9	65.9	64.5	62.4	60.3	53.8	56.1	51.7	50.3	47.3	57.1
Mean	51.9	52.6	53.8	54.9	54.9	53.3	54.4	54.0	55.2	55.0	57.6	57.3	62.2	65.5	67.8	68.1	68.3	66.0	60.1	55.7	52.4	51.4	51.1	51.3	57.3

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

Table 19 Meanook

Z = 58,500  $\gamma$  +

May 1948

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean	
1 Q	474	484	490	488	485	476	472	472	464	458	451	425	459	465	461	471	474	476	476	488	490	497	499	498	475	
2	485	493	493	493	447	453	483	393	353	452	424	313	301	380	389	404	459	467	466	482	520	523	490	490	444	
3	519	513	543	554	348	472	511	457	455	422	442	446	408	464	476	482	496	492	482	488	512	503	481	477	477	
4	495	499	510	511	507	491	486	485	474	473	475	478	473	481	478	455	454	465	469	458	475	501	584	571	490	
5	531	498	477	480	477	478	476	476	480	480	478	477	476	472	469	467	466	457	451	469	487	517	538	542	484	
6	534	546	562	559	519	514	514	487	463	351	365	375	351	384	405	385	437	474	507	530	546	551	595	589	481	
7 D	560	565	537	528	511	476	447	626	602	430	493	587	598	560	531	524	516	495	517	517	518	541	580	571	535	
8	538	515	507	509	519	532	519	494	496	492	488	482	529	526	499	515	510	510	502	498	494	511	510	509	508	
9 D	511	514	525	528	516	508	508	438	447	662	666	613	681	621	501	525	523	509	537	517	530	541	538	536	541	
10	528	526	541	553	552	509	487	440	441	450	449	464	508	512	516	504	501	522	555	557	533	536	546	550	512	
11	565	562	528	528	519	517	515	461	315	369	418	495	520	522	520	519	517	515	511	541	558	550	538	566	507	
12	550	508	510	525	510	488	516	508	451	376	456	474	472	474	499	508	520	520	509	522	521	542	519	514	500	
13	555	609	617	578	591	555	526	506	450	334	412	468	459	494	519	525	525	519	512	509	511	522	523	523	514	
14	527	523	516	514	513	512	513	514	514	514	513	518	522	516	514	514	503	503	509	524	520	535	531	529	517	
15 D	571	573	551	601	563	436	397	357	465	433	269	428	458	476	529	530	527	515	508	520	559	573	635	659	506	
16 D	595	620	360	241	379	429	429	604	533	640	645	651	549	567	565	527	595	573	554	543	556	561	584	587	537	
17	539	536	537	536	539	552	544	543	514	533	498	517	536	536	535	527	529	530	536	544	549	560	581	584	539	
18	582	582	565	573	574	572	549	539	501	508	539	548	549	548	545	533	519	514	530	547	543	560	568	574	548	
19 Q	572	545	520	527	525	525	528	527	528	527	525	500	500	507	517	531	531	529	525	523	530	538	538	539	527	
20 Q	546	550	547	546	545	540	534	533	526	523	511	497	478	471	478	503	516	521	527	532	547	573	609	629	533	
21 D	647	635	677	685	620	582	476	453	560	521	533	557	243	288	494	401	509	500	505	559	633	646	641	708	545	
22																										
23																										
24																										
25	565	573	572	526	503	509	540	513	490	502	511	504	506	530	557	558	563	552	532	551	555	563	577	600	540	
26 Q	611	589	576	567	571	583	578	569	570	565	546	532	524	509	499	492	490	503	515	517	510	521	530	553	542	
27	589	605	590	566	550	552	525	502	431	442	437	428	464	480	505	529	535	536	537	540	549	560	564	584	525	
28 Q	569	545	540	542	537	528	532	533	530	528	531	532	537	531	527	525	521	513	517	516	519	524	536	554	532	
29	571	596	623	607	584	566	539	526	534	541	528	493	407	456	383	415	503	535	528	536	546	544	588	618	532	
30	645	619	608	610	617	585	569	518	519	525	529	540	543	541	541	534	516	515	512	516	527	529	531	529	551	
31	530	523	517	521	525	530	528	507	480	498	516	512	519	520	519	507	500	511	509	529	529	539	565	604	522	
Mean	554	552	541	536	523	517	509	499	485	484	487	495	485	494	499	497	509	510	512	520	531	541	554	564	517	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20 Meanook

May 1948

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 Q	01 48	818	19 20	722	96	18 50	69.1	20 05	48.0	21.1	22 44	513	11 24	409	104
2	04 18	834	11 37	392	442	04 14	81.9	11 46	40.5	41.4	21 11	544	12 17	192	352
3	04 15	1030	12 34	589	441	04 15	83.8	05 34	36.9	46.9	03 42	564	04 30	307	257
4	22 12	900	15 13	723	177	14 44	72.4	00 24	46.1	26.3	22 39	597	15 49	439	158
5	00 00	834	17 03	736	98	15 39	70.1	23 55	46.2	23.9	00 20	559	18 18	446	113
6	20 09	957	09 09	561	396	09 37	81.9	20 16	42.4	39.5	22 58	627	09 18	306	321
7 D	01 19	908	08 59	<u>-256</u>	1164	11 16	101.5	09 10	<u>-54.6</u>	156.1	08 27	783	06 22	263	520
8	21 32	874	07 25	543	331	14 36	77.8	21 31	44.1	33.7	00 00	564	07 18	394	170
9 D	07 30	880	08 26	282	598	14 26	94.7	08 04	<u>-10.4</u>	105.1	12 58	<u>811</u>	08 07	222	589
10	03 26	843	15 59	664	179	16 34	79.1	06 05	41.9	37.2	18 59	584	07 46	396	188
11	23 40	881	08 32	462	419	08 47	87.3	09 24	41.2	46.1	23 49	593	08 35	202	391
12	00 06	869	09 11	641	228	04 24	84.9	22 35	46.2	38.7	00 02	586	09 07	333	253
13	01 16	1029	09 31	454	575	02 10	79.2	09 37	24.0	55.2	02 06	679	09 30	212	467
14	23 55	934	18 26	701	233	16 33	71.4	20 01	42.6	28.8	23 55	567	16 31	487	<u>80</u>
15 D	23 30	<u>1420</u>	10 48	170	<u>1250</u>	23 24	<u>104.6</u>	05 46	07.5	97.1	23 23	796	10 17	<u>141</u>	<u>655</u>
16 D	02 47	<u>1392</u>	11 11	244	1148	21 37	<u>117.7</u>	05 50	<u>-76.2</u>	<u>193.9</u>	07 20	761	03 04	166	595
17	23 07	868	17 26	693	175	16 30	70.3	24 00	46.9	23.4	22 32	598	10 26	464	134
18	02 05	891	16 26	697	194	15 15	70.1	03 27	43.0	27.1	02 00	603	09 08	428	175
19 Q	08 46	785	11 40	735	<u>50</u>	15 27	67.0	00 07	51.4	<u>15.6</u>	00 24	576	11 46	481	95
20 Q	23 43	824	13 59	666	158	16 55	69.1	23 46	49.1	20.0	23 44	635	13 55	440	195
21 D	03 10	1037	14 30	<u>-65</u>	1102	13 29	115.4	14 19	07.8	107.6	14 37	806	13 15	180	626
22															
23															
24															
25	05 05	896	12 37	670	226	12 26	74.8	20 55	51.1	23.7	24 00	614	05 23	477	137
26 Q	01 43	899	15 37	716	183	15 21	71.2	21 07	43.5	27.7	00 07	625	16 14	472	153
27	00 52	872	10 00	608	264	11 28	73.8	00 57	47.9	25.9	01 25	620	08 09	404	216
28 Q	00 07	848	17 56	733	115	16 35	74.1	21 56	43.9	30.2	00 08	600	17 58	507	93
29	02 47	1066	12 12	281	785	13 58	81.6	12 05	38.1	43.5	02 26	668	12 30	332	336
30	00 28	972	18 02	670	302	16 54	78.1	21 00	44.5	33.6	00 28	664	18 02	489	175
31	24 00	895	08 46	751	144	14 07	72.5	23 56	44.7	27.8	23 51	625	08 50	449	176
Mean		938		528	410		81.3		31.4	49.9		634		358	276
No. days		28		28	28		28		28	28		28		28	28

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

Table 21 Meanook

H = 12,000  $\gamma$  +

June 1948

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	947	1031	1009	951	669	747	481	774	766	703	639	765	738	747	740	592	640	694	707	720	729	729	765	769	752	
2	747	743	754	771	783	771	751	740	680	658	734	751	760	754	743	729	729	729	744	751	751	774	811	843	750	
3	860	844	800	782	787	797	774	776	776	776	779	780	768	761	741	737	737	748	749	749	761	750	761	793	774	
4 Q	792	789	781	775	781	784	787	787	791	794	796	801	793	788	779	775	767	758	742	735	729	752	761	767	775	
5	787	767	784	798	811	801	802	801	794	794	787	805	822	812	801	788	787	812	792	773	773	766	766	775	792	
6	794	804	813	803	793	794	801	780	797	792	764	793	806	815	819	829	801	793	771	765	766	777	786	782	793	
7	803	815	795	802	793	799	794	794	796	799	807	807	768	673	743	807	796	778	753	747	758	760	774	813	782	
8	815	789	782	781	778	783	782	785	791	802	785	799	796	800	807	827	805	774	768	779	760	743	760	821	788	
9	857	879	869	789	770	774	776	781	783	792	796	799	795	794	808	799	809	798	745	747	754	746	746	770	791	
10	784	805	807	816	804	778	776	784	785	785	786	772	762	782	807	814	802	783	771	768	768	774	778	783	786	
11	790	799	807	798	798	791	791	792	796	798	802	790	805	815	816	813	809	797	753	754	760	770	773	789	792	
12	798	816	802	799	790	793	796	796	802	808	810	800	817	825	817	797	775	780	763	769	789	824	808	869	802	
13	868	837	802	806	805	771	761	791	792	786	782	782	791	773	776	746	784	777	761	771	772	771	784	784	786	
14	786	786	787	785	785	786	782	785	788	796	795	794	799	797	797	777	751	774	786	780	780	769	765	780	784	
15 Q	777	786	790	790	802	793	785	788	790	787	790	794	803	805	804	797	788	774	756	756	761	769	769	776	785	
16 Q	790	794	795	795	793	807	811	811	811	800	800	809	811	811	811	802	789	771	745	767	767	769	793	815	794	
17	815	815	800	811	811	811	800	803	803	801	794	800	795	794	796	788	739	716	723	755	770	770	796	783	787	
18 D	809	843	848	843	825	807	801	795	803	795	720	786	775	810	816	803	780	775	781	774	784	759	820	875	801	
19 D	926	981	961	951	892	926	829	741	642	613	643	543	692	803	820	803	781	767	762	748	771	771	762	784	788	
20	825	854	804	801	795	807	807	790	779	773	768	773	769	769	795	777	768	762	755	762	769	786	754	764	784	
21 D	773	812	844	848	809	798	840	807	773	753	583	713	726	792	766	784	746	735	709	661	785	823	844	891	776	
22	861	858	946	814	936	768	566	695	780	757	741	739	756	789	804	787	771	738	735	741	751	768	758	772	776	
23	775	795	805	787	782	782	782	787	788	788	773	798	775	794	797	786	772	750	743	746	750	772	779	788	779	
24	788	801	801	813	836	813	800	794	790	803	810	813	825	831	827	811	792	766	759	750	754	776	778	797	797	
25	827	824	801	796	794	792	785	788	794	805	811	809	807	780	780	770	761	759	754	747	771	790	819	811	791	
26 D	897	928	858	778	799	825	803	803	803	710	704	791	774	750	725	665	794	796	802	802	765	772	818	773	789	
27	797	812	802	798	828	828	799	708	743	788	792	791	801	811	801	792	803	803	796	774	757	757	757	796	789	
28 Q	802	802	797	793	787	793	799	799	804	805	778	786	804	800	792	785	795	781	779	763	757	767	770	777	788	
29 Q	787	795	795	797	802	802	802	793	793	793	795	799	810	816	814	813	791	791	767	761	755	758	767	785	791	
30	797	804	805	803	811	806	807	812	804	798	796	785	790	795	781	794	810	812	773	763	765	767	795	786	794	
31																										
Mean	816	827	821	809	802	798	776	783	781	775	765	779	784	790	791	780	776	770	758	756	763	773	781	797	785	

### DECLINATION

Mean values for periods of sixty minutes, Universal Time

Table 22 Meanook

D = 24° E + ...'

June 1948

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	47.7	50.1	57.4	57.9	41.8	49.7	30.5	52.0	54.7	52.3	56.3	58.9	60.2	76.8	70.4	67.6	59.5	58.9	54.5	52.7	51.2	51.5	51.2	51.2	54.8	
2	52.1	51.9	51.9	52.6	53.2	63.8	62.9	53.2	45.2	45.2	55.7	58.8	61.8	64.7	67.3	66.4	66.1	64.3	59.4	54.4	50.9	48.6	48.9	50.5	56.2	
3	48.8	50.4	51.8	53.6	51.7	55.2	49.7	52.8	52.6	52.5	54.4	55.8	59.2	63.3	66.1	70.3	71.0	67.3	59.2	52.3	50.7	50.7	51.6	51.2	55.9	
4 Q	50.2	50.4	50.9	50.9	50.7	50.8	52.6	53.8	53.6	54.3	56.3	57.4	58.0	60.7	64.0	65.9	65.4	65.2	59.1	57.3	53.4	51.5	50.5	48.7	55.5	
5	48.7	48.9	50.5	51.7	53.8	52.4	51.3	50.9	52.6	53.5	57.7	57.9	58.4	62.1	62.8	63.2	63.2	62.3	58.1	53.0	48.9	49.2	49.2	49.5	54.6	
6	48.9	50.5	52.5	53.6	54.4	54.0	56.5	59.2	57.7	53.5	56.8	60.2	59.6	65.5	68.7	71.6	65.6	63.4	58.7	55.7	53.4	48.9	48.0	47.2	56.8	
7	48.8	51.6	53.5	53.8	53.5	54.6	52.7	53.8	53.9	54.6	55.4	51.6	53.6	56.5	67.6	72.4	72.3	67.1	59.6	52.3	49.9	47.9	45.7	45.7	55.4	
8	47.6	51.1	52.9	54.0	53.8	52.6	53.1	52.4	52.4	52.6	51.7	56.0	55.5	61.8	67.8	69.6	71.0	63.5	58.4	56.7	50.4	43.4	40.8	44.5	54.7	
9	47.2	52.5	50.1	57.1	55.4	53.7	54.3	55.1	53.0	53.0	51.1	53.9	55.6	59.8	68.2	69.6	69.0	65.5	51.8	48.4	47.9	47.9	45.1	47.3	54.7	
10	49.2	51.4	53.7	55.6	56.1	57.2	65.3	61.4	55.2	52.9	52.0	53.5	58.5	63.1	65.8	65.3	63.8	62.9	60.4	54.8	50.5	48.7	48.0	48.7	66.4	
11	50.6	51.9	54.7	57.4	57.1	54.7	54.7	53.6	53.6	53.0	52.3	52.3	59.1	64.3	66.9	67.5	68.0	65.1	55.6	51.9	47.7	45.9	47.6	46.7	55.5	
12	47.7	50.8	54.5	54.3	51.8	50.8	52.7	52.9	54.5	54.3	53.4	51.6	58.3	62.7	64.7	64.7	64.2	58.5	55.6	51.9	48.9	46.5	43.8	47.2	54.0	
13	52.2	55.3	53.9	55.0	63.7	58.1	57.5	57.7	54.4	53.1	56.8	59.5	65.1	65.6	67.4	65.3	66.3	66.7	68.2	58.9	50.5	49.9	49.9	50.1	58.4	
14	52.5	53.0	53.2	52.9	52.9	53.2	53.6	54.1	54.7	54.7	54.8	56.6	57.7	60.6	64.3	66.5	66.5	66.9	52.4	48.2	48.7	49.7	50.2	52.0	55.4	
15 Q	52.7	52.7	53.9	53.1	54.7	55.8	55.9	58.1	57.7	54.8	54.5	55.3	59.0	61.1	62.8	64.3	65.1	62.7	57.3	53.5	50.3	48.1	48.1	48.7	55.8	
16 Q	50.5	52.0	54.0	54.3	53.3	53.3	53.3	53.8	53.5	53.8	53.8	55.6	58.6	60.7	62.3	62.0	62.0	60.2	61.0	57.3	52.1	51.0	49.4	50.9	55.4	
17	51.8	50.6	52.2	52.9	53.1	51.1	50.8	52.0	52.6	53.8	54.0	57.7	60.4	64.4	65.4	69.6	66.3	59.4	53.0	42.1	45.1	41.5	41.4	46.7	53.7	
18 D	47.8	49.8	54.1	51.7	49.4	49.2	47.5	47.9	50.4	50.4	49.8	58.8	63.5	70.5	71.6	75.1	64.4	61.1	62.0	62.5	49.2	44.3	41.7	43.9	54.9	
19 D	46.4	50.5	49.9	50.1	47.0	41.2	40.5	43.5	46.0	51.8	53.5	57.3	61.3	61.8	66.6	70.2	69.1	65.6	60.3	54.9	50.2	45.4	42.9	43.0	52.9	
20	43.1	45.9	50.7	50.1	49.9	47.9	51.1	49.0	49.0	48.6	50.9	57.6	57.5	59.8	63.7	68.5	68.8	63.1	53.1	51.6	48.0	45.0	39.0	43.2	52.3	
21 D	47.0	47.8	47.0	51.1	52.1	48.7	56.0	53.9	47.8	51.8	50.7	61.9	65.4	67.8	70.0	73.8	73.4	69.4	61.2	51.9	51.3	44.3	43.8	43.8	55.5	
22	48.0	44.4	48.7	47.0	51.8	48.4	46.0	48.4	49.9	46.8	51.9	51.9	59.8	65.2	65.1	65.6	66.4	65.3	58.1	54.1	47.6	44.7	46.0	47.8	52.9	
23	50.9	51.3	51.2	51.9	52.8	52.4	52.4	52.7	52.7	52.7	54.0	57.9	60.5	64.5	66.5	66.5	65.0	62.1	56.8	52.7	44.3	39.2	40.9	43.8	54.0	
24	45.6	46.2	47.0	47.1	48.2	47.7	48.7	52.0	52.5	53.5	53.4	54.5	58.8	62.1	63.5	65.9	63.5	58.3	54.1	51.8	45.0	42.2	42.5	44.2	52.0	
25	47.0	50.6	52.1	51.8	51.0	50.8	51.5	52.7	53.7	54.7	55.6	55.4	58.5	59.7	60.5	63.1	60.4	58.3	57.7	50.8	50.6	47.6	44.2	44.8	53.5	
26 D	43.1	48.1	49.2	50.7	52.8	63.8	64.9	54.3	52.0	47.7	53.9	49.8	54.5	56.8	60.6	59.3	56.6	67.2	63.4	62.4	55.4	47.6	47.9	47.1	54.5	
27	49.6	50.5	51.8	52.8	53.5	62.4	58.8	62.8	59.7	58.5	54.7	58.4	61.2	64.2	62.7	66.5	67.3	62.4	58.3	53.3	47.6	44.6	44.6	45.9	56.3	
28 Q	48.8	51.6	53.3	53.3	52.7	53.4	54.0	53.7	54.3	54.6	50.4	55.5	58.0	58.8	62.1	63.1	64.1	62.7	58.6	55.1	51.7	48.0	46.1	45.9	54.6	
29 Q	47.7	49.7	51.7	52.0	54.4	55.1	53.9	52.8	53.1	53.4	54.5	55.0	58.1	60.6	63.5	64.8	65.9	66.2	57.0	54.6	48.8	47.0	47.8	48.5	54.8	
30	50.1	51.8	52.0	51.7	53.1	53.2	57.0	55.3	54.9	54.6	52.0	52.6	60.4	66.4	67.5	65.6	60.4	58.7	56.3	52.8	52.3	50.6	48.8	49.4	55.3	
31																										
Mean	48.7	50.4	52.0	52.7	52.7	53.2	53.0	53.5	52.9	52.7	53.7	56.0	59.2	63.1	65.5	67.0	65.7	63.3	58.0	53.7	49.8	47.0	46.2	47.3	54.9	

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

Table 23 Meantook

$z = 58,500 \gamma +$

June 1948

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	663	648	597	483	379	549	534	592	520	528	460	533	529	499	510	405	437	490	521	533	537	542	536	528	523	523	
2	534	529	537	547	560	565	507	511	469	424	507	539	552	541	530	531	539	537	539	541	543	556	580	603	534	534	
3	594	585	568	561	560	526	529	535	533	532	535	528	529	515	508	517	519	522	520	516	524	531	543	551	537	537	
4 Q	560	554	538	530	531	530	532	528	529	530	530	537	536	532	531	531	530	529	533	530	536	554	559	562	537	537	
5	569	554	552	551	562	560	552	544	523	498	480	523	537	531	531	532	503	512	527	526	516	514	521	537	532	532	
6	536	532	540	543	536	533	536	502	519	503	442	476	513	516	525	540	538	532	526	525	533	541	554	545	524	524	
7	542	545	539	537	533	534	533	524	524	522	530	524	471	398	443	489	512	510	515	515	527	540	563	579	519	519	
8	573	557	541	537	533	533	524	520	519	522	514	516	515	513	513	524	527	520	520	524	531	547	557	592	532	532	
9	611	626	632	582	556	545	536	524	521	523	514	523	521	520	525	517	515	520	534	530	529	528	532	545	542	542	
10	556	559	556	562	564	543	516	507	523	523	518	491	486	491	507	532	528	523	523	527	525	527	533	534	527	527	
11	532	540	545	543	540	534	529	528	524	524	529	504	520	529	523	520	515	509	513	523	525	528	524	528	526	526	
12	523	534	534	534	523	519	520	521	523	523	523	506	507	525	531	527	515	515	516	521	525	543	555	596	527	527	
13	612	615	569	575	564	497	513	540	534	520	518	521	523	507	507	491	505	515	527	545	558	554	534	522	536	536	
14	524	524	525	522	520	520	522	522	526	526	526	528	525	522	523	519	513	508	507	510	513	516	520	528	520	520	
15 Q	535	533	531	524	534	537	537	518	513	525	525	526	532	530	524	518	516	522	510	508	503	504	510	516	522	522	
16 Q	515	516	520	520	518	523	536	536	530	526	525	528	525	541	536	534	523	501	501	503	507	514	533	546	523	523	
17	555	552	552	546	542	537	535	529	526	516	516	518	506	500	494	503	505	494	494	501	524	544	558	547	525	525	
18 D	526	559	587	575	568	546	548	540	537	526	460	503	465	483	489	501	501	501	506	526	551	570	601	627	533	533	
19 D	669	655	635	613	613	550	537	560	636	629	568	601	546	569	571	550	544	534	535	541	549	554	540	541	577	577	
20	557	582	570	550	549	549	548	535	522	515	520	512	503	489	514	517	516	516	517	516	539	571	574	576	535	535	
21 D	557	553	577	605	570	557	539	529	514	507	335	422	427	507	518	535	522	521	530	546	594	611	609	618	533	533	
22	589	592	613	588	621	524	516	506	524	494	475	460	479	485	546	549	546	535	533	524	522	522	520	520	533	533	
23	521	528	538	533	525	516	516	515	515	514	509	502	491	502	506	500	500	500	502	500	506	518	525	527	513	513	
24	534	538	535	538	547	520	521	515	511	513	515	521	525	524	521	519	517	513	506	513	512	521	514	521	521	521	
25	527	540	534	528	517	516	513	513	515	517	518	513	513	494	482	494	494	502	513	515	527	559	580	599	522	522	
26 D	621	631	610	556	547	545	528	534	521	421	394	473	453	446	434	349	438	511	531	521	535	525	556	535	509	509	
27	544	546	545	544	547	439	417	425	415	452	487	501	515	526	519	512	517	518	512	506	515	515	520	524	503	503	
28 Q	521	521	521	518	517	516	518	518	517	517	492	497	504	500	495	500	502	502	507	512	511	521	521	518	511	511	
29 Q	520	519	513	514	517	520	518	514	514	514	513	512	513	520	519	511	493	502	503	510	510	512	512	517	513	513	
30	518	520	513	510	512	512	509	509	505	508	492	477	470	476	467	474	482	485	490	499	512	524	539	540	502	502	
31																											
Mean	558	560	556	546	540	530	524	523	520	513	499	510	508	508	511	508	510	513	517	520	528	537	544	551	526	526	

MEANTOOK MAGNETIC OBSERVATORY 1947 - 1948



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24 Meanook

June 1948

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 D	02 12	<u>1080</u>	06 38	<u>068</u>	<u>1012</u>	13 38	<u>100.9</u>	06 25	<u>-42.8</u>	<u>143.7</u>	00 46	683	04 42	277	406
2	23 58	871	09 09	619	252	06 04	72.9	09 13	39.4	33.5	23 36	619	09 08	373	246
3	00 00	881	16 45	727	154	16 58	72.5	06 23	42.5	30.0	00 06	607	05 59	477	130
4 Q	11 46	805	20 40	713	92	16 24	67.9	23 38	47.0	20.9	23 52	575	17 24	523	52
5	12 22	838	01 19	752	86	13 18	69.2	00 34	45.7	23.5	00 34	579	10 15	435	144
6	15 36	846	11 04	739	107	15 24	74.1	23 19	45.8	28.3	22 40	561	11 06	411	150
7	01 47	831	13 20	653	178	15 46	76.5	22 42	43.4	33.1	23 52	587	13 12	364	223
8	23 53	848	20 49	726	122	16 34	74.8	22 46	39.3	35.5	23 52	604	10 39	498	106
9	02 08	932	22 12	721	211	15 50	73.5	22 12	43.5	30.0	02 32	656	10 28	501	155
10	03 12	831	12 33	750	81	06 48	71.0	22 46	47.1	23.9	04 14	588	11 48	470	118
11	02 27	831	18 40	745	86	16 10	70.1	23 50	44.0	26.1	02 26	554	11 17	495	59
12	23 33	886	19 34	754	132	15 38	69.8	22 43	42.4	27.4	24 00	610	12 03	484	126
13	00 18	895	15 12	718	177	17 55	72.3	20 43	46.9	25.4	01 24	642	15 26	475	167
14	13 10	807	16 44	739	68	16 04	72.1	20 04	46.7	25.4	23 51	537	17 14	501	<u>36</u>
15 Q	13 57	808	19 34	747	<u>61</u>	16 32	66.5	21 48	47.4	19.1	06 01	554	21 32	501	53
16 Q	23 10	829	18 05	749	80	16 14	65.3	21 29	49.0	<u>16.3</u>	23 59	555	18 20	494	61
17	22 56	819	17 16	699	120	15 50	72.3	19 53	37.5	34.8	23 02	568	17 13	482	86
18 D	23 53	885	10 22	634	251	15 15	78.0	22 05	38.5	39.5	23 55	644	10 00	390	254
19 D	03 04	1027	09 05	512	515	15 18	72.9	05 46	21.9	51.0	08 42	<u>895</u>	06 28	460	<u>435</u>
20	02 51	893	22 04	694	199	15 49	73.5	22 39	34.6	38.9	01 52	616	12 51	460	156
21 D	06 50	935	10 25	474	461	15 46	78.9	18 11	34.4	44.5	03 13	646	10 07	<u>247</u>	399
22	02 38	1061	06 25	398	663	02 58	73.3	06 34	32.2	41.1	03 47	664	05 53	282	382
23	02 23	821	18 52	733	88	16 12	68.0	21 03	38.2	29.8	02 19	543	12 13	477	66
24	04 33	858	19 18	724	134	15 50	67.4	21 17	40.3	27.1	04 36	590	05 08	480	110
25	01 07	867	19 35	731	136	15 36	65.3	22 48	41.3	24.0	23 34	604	14 12	475	129
26 D	01 12	949	09 50	544	405	06 04	78.3	00 33	38.9	39.4	00 56	664	09 58	256	408
27	05 00	903	07 53	593	310	08 26	87.3	22 08	42.6	44.7	04 52	569	05 45	307	262
28 Q	00 00	816	20 12	743	73	16 38	66.6	21 54	45.4	21.2	01 35	534	10 49	476	58
29 Q	13 46	823	20 32	748	75	17 14	69.1	00 05	45.8	23.3	01 12	525	16 27	489	<u>36</u>
30	17 27	825	19 15	758	67	14 16	71.3	22 25	48.5	22.8	22 48	555	14 43	456	99
31															
Mean		877		664	213		73.0		38.9	34.1		604		434	170
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 1948

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	828	849	867	858	829	811	799	793	789	796	798	799	803	820	821	810	791	755	743	741	749	773	797	777	798
2	805	828	815	805	800	807	804	798	797	798	803	786	783	809	820	826	814	776	742	736	757	758	765	775	792
3	778	787	796	789	796	796	798	817	819	820	805	819	822	814	821	801	845	828	796	768	769	769	786	806	802
4 D	827	817	830	794	791	804	807	807	730	763	786	797	794	824	818	795	764	758	763	789	755	752	857	947	799
5	1020	951	778	782	782	797	795	795	794	797	805	803	778	763	780	764	757	761	749	749	747	772	803	893	801
6	890	820	778	778	778	781	774	763	749	784	686	734	784	777	805	823	804	798	767	773	766	766	776	782	781
7	801	807	799	794	801	808	809	817	815	817	786	784	810	839	845	823	794	768	739	744	745	745	762	782	793
8	827	824	836	831	817	761	693	694	570	543	723	704	787	797	802	811	758	746	757	745	746	755	764	775	753
9	781	799	795	795	784	791	792	792	792	785	663	714	781	794	792	774	763	734	770	763	771	791	781	777	774
10	790	803	808	796	819	820	809	807	763	681	710	533	774	787	787	843	826	778	778	786	780	778	793	801	777
11	797	795	789	797	795	797	800	810	804	817	815	777	816	833	836	828	814	799	748	762	765	773	808	804	799
12	817	830	844	825	830	833	790	668	786	784	786	768	772	759	772	781	778	759	751	764	773	796	805	785	
13	811	811	818	828	812	800	795	795	776	784	756	691	677	783	809	798	787	775	761	765	771	781	785	811	782
14 D	888	833	849	810	824	832	815	818	795	755	771	775	792	778	772	757	782	782	763	764	778	778	807	807	797
15	825	805	821	797	787	790	793	794	799	803	787	798	782	780	780	782	783	784	774	778	778	784	788	855	794
16	854	811	813	807	833	861	831	772	527	729	803	792	768	741	769	769	768	737	733	739	747	763	755	778	771
17	787	835	859	903	881	822	835	799	750	743	794	794	799	805	803	787	783	773	733	747	759	764	773	784	796
18	786	797	816	802	787	785	789	791	775	763	773	777	775	779	783	794	768	746	723	731	748	760	774	793	776
19 Q	811	807	799	799	802	803	800	799	799	796	794	793	798	803	796	783	761	745	725	732	741	761	775	798	784
20 Q	811	803	797	804	801	796	793	793	796	797	794	797	800	807	811	799	794	773	766	759	750	772	789	804	792
21	824	807	772	784	789	792	795	799	799	807	799	792	801	803	815	810	793	771	757	753	747	753	780	780	788
22 Q	785	798	798	796	801	803	706	785	801	796	796	745	774	795	812	799	793	774	761	763	772	784	792	800	785
23 Q	803	786	788	786	789	793	793	797	798	789	785	789	789	787	791	797	807	791	781	781	778	779	785	841	792
24 Q	822	809	809	809	801	791	787	788	795	799	798	803	808	812	810	799	787	788	771	763	769	760	763	774	792
25	785	788	817	784	792	803	797	788	789	779	764	780	792	803	803	794	788	774	774	770	778	783	799	809	789
26	801	782	801	804	804	797	792	790	788	799	696	611	748	791	808	790	788	797	788	783	782	799	769	782	779
27	790	786	783	782	807	797	797	797	794	794	794	789	794	801	799	788	797	792	774	773	774	773	782	794	790
28	780	780	783	790	790	793	798	798	797	797	797	797	804	807	801	792	780	762	788	766	780	786	801	809	791
29 D	811	760	796	827	831	832	683	644	679	579	328	294	496	719	737	792	792	782	764	761	750	757	764	771	706
30 D	776	797	813	808	798	821	801	758	739	786	805	798	813	790	750	764	798	808	786	773	744	780	782	876	790
31 D	883	963	974	883	861	822	782	661	614	517	420	404	805	805	808	777	738	767	769	781	788	795	782	798	758
Mean	819	815	814	808	807	804	789	778	762	761	749	737	778	794	799	795	787	774	761	761	763	772	785	806	784

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

Table 26 Meanook

D = 24° E + ...'

July 1948

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	50.6	52.8	54.4	52.3	53.7	52.3	48.9	50.6	50.4	51.8	54.7	57.2	62.1	65.1	67.2	69.9	69.9	67.5	62.2	52.9	43.1	40.7	40.9	43.1	43.1	54.8
2	45.7	49.7	52.3	51.6	51.7	50.6	52.5	51.6	52.4	51.1	51.7	54.5	63.3	66.1	69.6	71.3	68.2	67.0	61.2	49.6	47.1	44.1	42.1	43.3	43.3	54.5
3	45.6	47.9	49.3	50.6	51.2	49.1	50.7	52.2	52.4	54.2	52.5	55.6	56.5	64.7	66.5	65.2	66.0	63.7	60.3	56.3	51.5	47.4	46.8	46.2	54.3	
4 D	45.7	48.9	48.8	53.1	51.5	51.5	52.2	53.4	71.8	57.7	48.8	52.5	59.5	66.2	65.7	65.0	59.4	61.1	41.8	48.0	53.5	43.0	44.2	48.6	53.8	
5	51.5	49.7	51.3	50.9	51.7	53.4	53.0	50.5	50.3	50.0	50.5	51.8	54.4	65.0	69.7	66.1	63.1	57.3	55.1	51.9	48.3	45.1	45.4	52.1	53.7	
6	54.5	52.2	53.2	53.1	53.4	53.8	55.1	55.5	56.2	55.1	49.7	57.5	59.2	62.0	69.3	68.9	66.2	62.0	58.0	50.5	48.3	45.1	43.6	44.5	55.3	
7	46.7	49.7	53.1	52.5	53.9	55.8	51.6	50.0	52.3	52.8	53.0	57.3	61.5	66.9	66.9	68.7	66.6	61.4	54.5	50.5	48.3	44.5	44.7	46.7	54.6	
8	50.1	53.1	54.5	55.2	53.7	48.5	63.1	62.8	65.7	63.1	53.6	63.7	65.6	65.9	71.2	73.3	69.0	58.1	56.2	52.2	49.5	48.9	49.2	49.3	58.1	
9	50.5	51.5	53.2	52.3	52.3	50.1	53.2	51.5	50.4	49.8	40.2	53.1	61.4	64.1	65.5	63.7	60.9	57.2	48.5	45.5	45.1	50.2	47.4	48.6	52.8	
10	51.4	53.0	54.3	53.2	53.4	62.9	60.7	60.1	55.7	64.9	53.2	63.6	62.4	64.5	73.5	71.4	65.0	60.0	55.1	46.9	45.7	45.3	46.9	49.1	57.2	
11	51.8	52.4	52.4	51.0	49.6	49.9	51.0	50.3	52.1	53.7	54.2	51.9	57.2	62.6	66.7	67.0	64.0	60.5	58.2	49.6	44.5	44.5	45.2	47.7	53.7	
12	50.7	51.6	50.2	52.0	49.6	53.3	49.0	47.9	53.4	50.4	51.9	52.3	49.4	60.5	63.6	64.7	64.2	61.3	55.8	54.0	50.3	47.4	47.6	50.1	53.4	
13	51.5	52.4	52.6	51.5	54.4	54.4	53.0	52.0	53.1	52.4	53.0	59.8	63.5	65.4	63.8	66.0	63.8	60.6	55.7	53.9	49.6	49.4	49.1	49.5	55.4	
14 D	47.2	52.1	50.0	52.4	52.0	54.3	63.3	55.1	51.3	56.1	68.3	65.2	68.7	71.9	72.3	67.1	64.2	61.1	59.0	55.4	52.0	50.5	49.6	47.2	57.8	
15	45.7	48.4	48.8	51.1	50.2	48.4	47.8	50.3	52.2	50.4	50.9	54.9	57.7	64.4	65.9	61.0	61.1	58.5	53.4	50.3	45.4	44.7	47.4	46.3	52.3	
16	47.3	50.6	48.8	48.0	48.5	55.4	46.6	49.7	52.5	58.3	58.4	62.8	68.7	69.4	68.7	70.9	65.5	61.7	55.3	50.6	48.9	48.5	48.6	48.5	55.5	
17	49.3	47.7	46.6	55.1	47.7	52.8	51.8	53.5	51.5	50.1	56.3	59.2	61.3	62.4	62.6	65.0	63.5	66.5	66.1	55.3	51.3	47.6	46.8	48.8	55.0	
18	50.1	50.3	50.3	50.5	50.5	50.7	51.0	50.8	55.5	50.7	56.1	56.8	61.1	65.8	66.0	63.0	65.4	62.5	56.5	50.5	48.6	47.6	47.2	47.0	54.4	
19 Q	47.9	49.2	49.1	49.0	48.4	48.4	49.2	49.5	53.0	50.3	52.2	54.1	56.1	57.3	59.0	62.2	62.2	60.5	53.4	49.0	46.0	44.2	42.8	43.8	51.5	
20 Q	46.5	48.2	49.6	51.0	51.8	50.3	51.3	52.1	52.8	53.8	55.3	57.2	61.8	63.8	64.5	64.7	64.8	63.9	60.0	55.1	47.4	43.3	43.0	43.7	54.0	
21	46.2	48.1	49.6	49.2	50.1	51.1	51.4	53.4	52.5	53.2	51.2	51.3	56.6	59.5	63.1	64.2	66.0	64.6	58.3	53.7	49.6	43.3	43.0	46.4	53.2	
22 Q	50.3	52.1	54.7	54.7	52.7	53.5	48.4	61.5	57.0	51.9	49.1	51.7	62.2	63.2	64.6	61.9	62.2	57.5	53.2	50.5	47.7	49.3	48.8	49.9	54.5	
23 Q	52.0	52.3	53.8	53.3	53.2	52.4	53.1	52.9	51.6	53.6	55.4	56.4	58.7	60.0	60.0	63.6	63.1	60.1	58.3	55.3	52.5	51.0	46.9	47.4	54.9	
24 Q	49.3	49.1	51.2	52.8	52.1	51.4	50.3	51.1	52.1	52.2	53.4	54.8	59.8	60.8	60.6	58.1	56.2	55.3	51.3	49.4	46.1	46.4	48.8	50.7	52.6	
25	50.6	51.2	52.3	51.5	50.7	50.7	50.4	50.4	52.9	58.2	57.3	60.7	63.8	64.7	64.9	64.8	64.9	60.9	50.4	50.4	50.4	50.1	48.6	49.4	55.0	
26	52.6	51.2	50.3	52.1	51.6	50.3	52.3	54.0	52.0	50.2	44.5	50.9	68.2	69.0	70.6	69.0	64.0	61.0	57.2	50.4	46.8	45.4	46.3	46.7	54.4	
27	49.2	50.1	51.1	50.4	49.4	47.7	49.5	52.4	53.3	53.8	55.2	57.8	60.3	62.2	64.2	68.8	69.4	63.7	58.1	52.1	49.4	47.7	47.0	48.1	54.6	
28	50.5	51.6	52.1	52.0	52.7	52.3	52.6	52.1	52.4	52.2	52.8	54.4	56.5	59.7	62.2	64.6	67.4	68.9	55.8	51.9	49.1	46.9	45.8	45.6	54.3	
29 D	48.6	54.2	49.5	52.5	56.3	52.4	55.2	61.4	57.6	53.8	65.3	82.3	86.9	72.3	69.8	61.8	63.4	59.6	54.0	49.0	47.7	49.3	48.6	48.9	58.4	
30 D	50.7	51.9	54.4	54.9	52.6	55.7	64.9	62.1	60.7	56.1	54.1	54.4	60.2	62.1	66.1	68.8	68.2	61.7	58.9	61.3	48.6	48.4	45.8	47.4	57.1	
31 D	49.5	48.6	54.2	51.9	55.0	52.4	51.5	52.4	58.4	46.0	42.5	63.9	57.9	61.1	64.3	66.2	61.8	56.7	50.5	52.7	56.1	56.9	55.5	55.3	55.1	
Mean	49.3	50.7	51.5	52.0	51.8	52.1	52.7	53.3	54.4	53.5	53.1	57.4	61.4	64.1	66.1	66.0	64.5	61.4	55.9	51.8	48.7	47.0	46.6	47.7	54.7	

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

Table 27 Meanook

$z = 58,500 \gamma +$

July 1948

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	552	564	586	589	571	555	544	541	529	528	528	521	515	512	509	500	498	490	497	503	516	532	543	541	532
2	531	538	543	542	538	542	540	526	518	518	518	500	489	498	498	504	504	502	499	499	507	518	519	520	517
3	517	515	510	508	509	506	507	510	510	505	485	494	496	458	465	426	466	485	501	501	503	510	515	517	497
4 D	528	526	530	521	512	517	517	514	356	362	453	486	496	506	505	494	479	483	490	515	528	557	571	614	502
5	664	627	556	536	536	522	522	514	507	506	512	512	502	486	493	475	468	471	477	492	495	514	528	603	522
6	634	575	526	512	505	506	505	464	375	451	386	435	500	477	497	519	515	509	505	507	506	513	514	517	498
7	515	517	514	507	516	522	523	517	505	497	463	460	486	507	509	499	495	487	494	496	499	505	507	517	502
8	538	548	559	559	540	439	355	412	259	322	369	362	442	471	475	482	493	493	500	504	513	518	521	520	466
9	513	511	511	513	513	517	503	505	503	498	322	381	469	478	490	482	487	466	482	485	487	509	517	511	486
10	514	513	513	507	513	539	427	484	472	419	427	409	429	443	457	503	503	478	495	499	504	504	505	505	482
11	503	499	497	497	494	501	499	502	484	505	501	439	472	491	497	497	497	505	495	503	504	505	524	553	498
12	579	588	588	582	591	551	503	389	471	483	486	457	483	477	484	483	486	486	502	502	503	510	508	514	509
13	520	522	530	547	555	533	531	511	458	445	433	377	343	466	493	500	497	494	492	500	499	496	496	513	490
14 D	563	575	576	545	541	535	475	492	502	447	449	475	472	461	468	489	489	487	491	501	499	511	536	533	504
15	543	540	556	543	519	501	498	498	491	487	460	478	481	478	479	491	487	484	481	487	500	502	508	540	501
16	551	537	518	517	521	520	482	446	279	405	492	496	469	424	439	451	462	469	478	476	480	489	491	492	474
17	498	523	551	530	550	537	530	508	454	426	496	498	500	500	491	484	483	483	491	507	511	507	499	501	502
18	501	501	511	517	502	499	492	493	499	477	456	467	478	481	483	492	490	491	479	481	489	494	502	508	491
19 Q	518	520	517	502	499	499	499	488	487	486	488	492	499	506	507	503	499	495	493	497	499	497	497	498	499
20 Q	499	499	499	499	492	488	488	487	488	489	488	488	486	479	480	476	468	466	461	463	466	475	477	490	483
21	542	530	499	480	482	482	483	485	480	483	477	453	458	477	486	488	485	476	479	480	488	502	531	550	491
22 Q	543	525	521	505	502	499	331	427	487	491	487	409	431	457	486	487	489	489	484	491	496	498	498	502	481
23 Q	508	496	495	494	496	495	489	489	433	421	451	478	480	475	480	480	481	480	478	479	478	478	489	511	481
24 Q	531	533	524	524	519	510	494	490	488	485	479	490	490	487	490	488	479	481	487	482	479	477	479	490	495
25	492	495	508	499	491	495	503	501	494	479	458	473	477	476	472	476	481	491	491	482	485	491	502	512	488
26	525	509	503	511	517	521	523	520	505	495	477	268	351	429	452	451	453	474	482	491	480	493	492	491	476
27	489	483	482	486	497	502	497	491	488	491	491	488	502	496	491	480	477	476	478	471	476	480	483	484	487
28	489	489	486	487	484	484	490	486	485	486	487	489	490	490	492	492	490	478	470	470	481	494	508	525	488
29 D	551	515	497	535	547	557	414	352	397	429	495	559	461	414	417	495	513	503	497	503	505	520	520	515	488
30 D	523	527	538	548	527	527	480	465	450	472	491	504	515	502	451	424	461	488	491	502	523	538	525	572	502
31 D	603	609	598	568	493	538	516	417	439	452	465	290	484	506	520	493	467	486	509	512	523	538	535	539	504
Mean	535	531	527	523	518	514	489	481	461	466	467	456	472	478	482	483	485	485	489	493	497	506	511	523	495

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28 Meanook

July 1948

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$			Minimum 12,000 $\gamma$ +			Range	Maximum 24° E +			Minimum 24° E +			Range	Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range
	h.	m.	$\gamma$	h.	m.	$\gamma$		$\gamma$	h.	m.	'	h.	m.		'	'	h.	m.	$\gamma$	h.	
1	02	42	895	18	53	732	163	16	53	71.7	21	35	39.0	32.7	03	03	608	18	02	478	130
2	01	19	836	19	14	725	111	15	45	75.0	22	27	40.6	34.4	06	02	556	12	08	480	76
3	16	24	860	15	07	740	120	14	40	70.1	00	07	43.0	27.1	01	12	526	15	22	388	138
4 D	23	15	976	08	56	616	360	08	24	84.5	18	05	38.9	45.6	23	56	668	08	53	215	453
5	00	27	<u>1082</u>	16	36	725	357	15	16	71.9	21	24	41.9	30.0	00	27	721	16	31	439	282
6	00	18	919	10	25	581	338	14	59	72.6	22	51	42.5	30.1	00	18	656	08	16	291	365
7	13	46	857	18	29	723	134	16	23	72.7	22	04	42.2	30.5	06	17	534	10	39	429	105
8	05	22	864	09	18	448	416	08	02	80.4	06	01	26.4	54.0	03	11	573	08	09	155	418
9	03	02	827	10	50	550	277	14	15	67.4	10	48	28.0	39.4	22	16	530	10	47	228	302
10	05	55	879	11	15	341	538	11	28	103.5	11	22	40.1	63.4	05	56	564	11	25	308	256
11	14	26	845	18	43	740	105	15	29	69.4	22	23	42.5	26.9	23	51	570	11	35	416	154
12	02	17	860	06	50	710	150	15	27	66.8	07	15	23.3	43.5	04	22	613	07	18	317	296
13	23	55	846	12	05	631	215	11	47	70.6	20	34	45.9	24.7	04	55	584	12	03	317	267
14 D	06	18	920	09	34	701	219	14	04	75.9	00	07	45.1	30.8	02	17	592	09	58	398	194
15	23	44	875	19	17	763	112	14	32	69.8	20	32	42.1	27.7	02	40	575	10	40	438	137
16	06	58	918	08	32	398	520	14	53	75.5	09	05	34.8	40.7	05	19	564	08	25	154	410
17	03	45	1039	09	16	669	370	03	56	78.1	09	07	39.6	38.5	04	39	616	09	02	341	275
18	02	49	834	18	51	713	121	13	58	67.8	21	59	45.6	22.2	02	50	531	10	32	444	87
19 Q	00	47	820	18	53	715	105	17	03	64.6	21	56	41.8	22.8	01	21	529	08	56	477	52
20 Q	13	51	824	20	28	745	79	17	11	69.8	23	00	41.2	28.6	24	00	530	18	53	458	72
21	01	03	838	20	09	705	133	17	12	69.4	22	10	40.9	28.5	23	53	558	11	52	437	121
22 Q	14	35	819	06	41	634	185	07	00	69.8	06	47	33.6	36.2	00	02	557	06	35	257	300
23 Q	23	49	851	08	51	765	86	15	36	65.1	22	59	45.4	<u>19.7</u>	23	50	536	09	00	381	155
24 Q	00	27	835	21	45	748	87	13	03	63.8	21	07	44.1	<u>19.7</u>	01	27	544	16	31	470	74
25	02	45	831	10	34	738	93	15	40	67.5	07	03	46.2	21.3	23	53	528	10	44	440	88
26	21	43	825	10	50	561	264	15	21	72.1	11	03	37.8	34.3	00	28	530	11	10	234	296
27	04	27	822	19	00	761	<u>61</u>	16	17	72.4	05	07	46.5	25.9	05	36	512	19	27	466	<u>46</u>
28	23	53	860	17	34	716	144	17	41	82.1	23	58	43.1	39.0	23	55	546	17	35	458	88
29 D	00	12	877	10	43	141	736	11	47	<u>165.8</u>	11	46	23.0	<u>142.8</u>	11	51	<u>837</u>	11	46	235	<u>602</u>
30 D	23	18	936	08	24	674	262	15	43	73.7	22	02	42.7	31.0	23	19	593	14	37	393	200
31 D	03	16	1048	11	18	<u>069</u>	<u>979</u>	11	43	106.6	11	00	<u>20.2</u>	86.4	00	49	648	11	46	<u>126</u>	522
Mean			766			548	218			77.0			39.0	38.0			582			357	225
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 1948

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	831	807	805	799	847	806	780	760	675	660	480	588	725	782	817	828	819	802	775	778	783	816	819	768	765
2	821	840	811	799	790	824	747	741	783	704	656	737	730	622	776	820	820	826	778	771	778	748	772	786	770
3	789	789	785	807	796	807	795	728	712	703	677	752	777	800	795	796	768	752	735	741	762	760	773	787	766
4	791	799	813	810	802	800	788	774	784	756	152	179	300	777	787	827	823	758	746	754	784	762	762	769	712
5	774	783	805	832	804	799	786	789	787	786	767	705	754	771	785	782	782	760	746	754	761	769	775	783	777
6	786	790	781	790	799	790	798	799	783	774	772	794	774	784	760	740	791	787	759	762	761	772	774	780	779
7	800	801	798	823	839	809	760	780	819	756	728	791	750	725	827	827	807	785	753	764	772	784	787	827	788
8 D	862	891	838	912	926	714	067	249	535	355	111	355	289	311	282	278	675	762	813	833	918	1111	1155	1129	640
9 D	1074	963	954	873	799	784	814	775	737	567	606	577	570	748	794	778	754	713	717	715	729	774	955	1007	782
10 D	883	1047	892	859	886	822	131	-32	342	696	624	674	626	587	734	677	510	565	688	783	798	781	749	727	669
11 D	751	786	759	759	760	805	893	679	660	692	775	767	768	772	748	727	743	762	774	743	747	800	783	756	759
12	768	835	766	763	778	793	577	153	390	527	661	737	658	724	736	745	759	749	746	770	796	784	831	854	704
13	877	881	787	808	876	830	791	747	721	638	778	775	774	790	767	768	762	753	744	743	741	743	748	756	775
14	755	759	764	761	768	767	770	773	775	776	735	670	759	773	729	733	737	747	730	722	743	772	775	775	753
15	742	764	763	777	777	777	779	779	774	779	777	778	781	770	776	761	763	756	745	738	760	756	782	787	768
16 Q	782	781	783	781	780	779	776	778	778	778	778	776	781	781	778	767	752	744	730	734	743	759	766	778	769
17 Q	783	780	778	778	780	780	781	784	780	781	783	785	786	797	801	801	777	746	722	728	739	758	780	775	774
18 Q	776	776	778	769	774	777	779	781	778	729	793	790	789	789	781	770	745	726	716	720	727	742	759	762	764
19	768	766	776	780	784	782	783	788	794	794	794	800	801	798	794	776	755	727	714	725	750	767	797	854	778
20 D	886	1050	973	956	823	676	612	746	793	793	779	695	635	590	720	814	789	763	736	745	752	736	772	816	777
21	774	785	789	846	798	802	815	816	768	767	725	593	609	550	623	733	749	763	753	742	768	767	755	776	744
22	769	772	773	779	798	796	787	781	780	725	797	787	793	791	782	778	753	733	719	724	727	767	758	757	768
23	781	841	970	876	767	767	767	772	775	765	778	777	789	800	786	769	747	726	703	705	723	750	773	789	779
24	792	797	798	786	783	789	783	795	791	754	750	800	796	794	775	756	726	730	727	732	738	761	767	773	771
25	786	786	793	793	786	786	786	783	774	748	744	793	791	780	781	777	757	745	740	725	748	755	749	766	770
26 Q	769	770	777	785	782	782	784	784	785	786	787	792	792	792	789	777	765	747	742	751	756	755	765	777	775
27 Q	787	785	780	781	789	789	789	785	786	789	781	792	798	808	806	804	783	770	747	754	763	776	787	781	784
28	793	795	786	793	795	797	791	757	662	571	678	799	791	791	782	760	735	755	769	762	770	762	798	802	762
29	809	854	843	863	877	841	683	742	542	457	662	685	346	547	685	771	697	771	781	761	777	793	794	821	725
30	815	800	878	824	851	738	750	615	518	321	553	443	494	581	765	812	803	777	769	757	772	799	796	808	710
31	763	767	773	773	784	790	785	771	670	611	766	769	725	778	762	786	777	754	750	757	763	777	806	804	761
Mean	804	821	812	811	806	787	727	702	711	688	687	704	692	725	754	759	755	750	745	748	762	778	795	804	755

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 30 Meanook

D = 24° E + ...'

August 1948

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	54.4	54.2	54.5	54.2	52.2	58.5	61.8	56.2	67.0	61.4	49.3	59.5	59.4	63.0	65.5	65.3	66.2	60.0	55.1	51.7	50.5	52.4	52.4	50.6	57.3
2	49.6	52.4	55.4	57.2	50.3	55.2	73.4	60.0	51.4	51.9	56.2	47.7	52.4	55.5	65.4	63.9	62.0	58.5	54.8	54.3	53.7	50.8	51.7	52.2	55.7
3	52.5	53.3	52.0	53.7	54.7	54.5	52.5	54.4	56.6	51.8	59.7	56.5	61.7	64.8	67.3	62.2	62.8	58.6	50.6	49.1	48.7	46.9	49.5	53.5	55.3
4	55.4	56.7	56.4	57.1	52.8	53.2	52.5	54.6	58.3	50.6	19.3	87.1	78.4	65.3	70.7	70.0	61.2	60.0	60.7	42.1	47.1	45.2	48.8	51.8	56.5
5	54.2	55.8	56.3	57.3	62.8	51.7	50.5	51.4	51.6	51.5	51.1	60.2	64.3	66.9	65.0	66.4	64.7	61.2	56.5	49.3	44.6	44.8	47.1	49.5	55.6
6	50.9	51.0	51.7	51.7	51.9	63.5	56.1	51.7	49.5	51.4	49.5	51.0	55.5	59.9	62.3	65.2	57.5	52.9	50.8	47.2	46.8	48.1	49.7	52.9	53.3
7	53.1	53.4	53.4	55.6	55.5	56.7	58.9	68.4	56.4	55.3	57.9	60.7	64.4	70.8	69.3	67.3	65.4	61.5	57.0	54.3	51.9	52.3	53.8	55.8	58.7
8 D	57.5	55.3	54.3	50.4	43.9	19.8	05.3	11.0	19.1	40.1	65.6	71.5	77.8	89.9	89.9	58.1	72.6	63.6	69.7	78.2	87.2	99.6	93.2	67.0	60.0
9 D	50.0	47.5	47.3	50.8	54.4	47.9	48.4	46.3	44.0	46.7	56.9	66.5	58.8	69.8	71.8	67.5	66.9	69.5	61.9	53.6	50.5	49.6	52.7	51.4	55.4
10 D	44.6	40.0	45.3	46.7	43.2	30.5	-4.3	14.6	30.7	48.4	58.7	65.3	67.0	61.7	70.9	65.8	80.6	60.1	67.5	45.7	51.7	50.0	46.9	49.5	49.2
11 D	49.8	51.7	54.7	52.5	51.7	50.8	56.7	43.2	47.6	55.8	56.0	59.5	63.4	64.5	64.6	66.5	65.5	60.3	55.4	53.0	47.9	49.0	50.0	50.3	55.0
12	50.5	52.0	61.3	54.5	54.2	73.0	47.9	14.1	37.1	53.2	51.6	57.2	56.6	62.2	69.7	67.2	61.9	59.9	54.9	59.7	58.5	46.1	48.9	50.3	54.3
13	44.8	48.7	52.6	52.6	48.9	52.5	48.8	45.8	54.7	55.7	48.1	54.4	57.3	60.9	67.7	68.2	68.1	66.5	63.8	56.8	52.0	49.7	51.6	51.9	55.1
14	52.9	53.0	52.7	52.1	52.4	52.2	52.8	53.4	53.3	54.4	55.5	52.3	57.7	64.0	67.1	66.6	61.7	60.4	49.9	51.7	43.1	43.1	43.1	46.9	53.8
15	48.8	49.2	52.0	54.2	53.6	52.7	52.6	52.7	52.6	53.9	54.0	55.4	58.6	61.8	65.5	66.6	65.4	61.3	57.7	52.6	50.6	48.2	47.8	49.0	54.9
16 Q	52.6	53.0	53.6	53.7	51.6	51.9	53.0	53.1	53.1	53.3	54.1	55.9	57.7	60.2	61.8	64.5	65.3	63.7	60.1	53.6	47.3	44.6	45.8	48.1	54.6
17 Q	51.6	52.9	54.1	54.0	53.0	52.9	53.0	53.5	53.5	54.4	54.7	55.2	59.0	62.4	66.5	70.3	71.6	69.2	59.8	50.1	46.7	44.6	44.3	48.1	55.6
18 Q	50.8	53.1	53.9	53.7	52.5	52.5	52.7	52.5	51.8	52.7	57.7	56.9	61.6	65.3	66.4	68.3	69.0	63.2	56.4	50.8	44.6	43.0	46.8	50.8	55.3
19	53.0	52.9	51.7	51.7	51.7	51.8	52.1	52.3	53.0	53.6	54.7	55.5	57.3	60.3	64.3	66.8	66.8	60.5	51.0	47.8	42.9	41.3	40.4	40.2	53.1
20 D	43.5	47.1	51.2	46.9	45.6	46.5	52.7	51.5	56.5	52.3	53.8	60.7	73.2	81.0	69.8	70.7	71.5	66.2	56.0	53.7	49.5	42.8	45.9	45.9	55.6
21	49.7	49.8	50.0	52.7	49.6	48.0	48.4	53.7	51.1	50.8	52.8	41.4	79.7	62.3	82.0	71.5	68.8	63.5	57.7	59.9	50.7	50.1	46.9	49.7	55.9
22	51.5	52.9	53.4	53.4	51.9	54.5	52.5	52.6	51.6	47.8	52.8	54.6	57.6	61.3	66.6	72.0	73.1	64.2	56.0	51.8	44.9	43.7	41.8	43.2	54.4
23	48.9	49.0	48.1	51.2	52.8	51.8	51.8	51.3	50.9	51.6	54.4	54.5	57.6	64.6	68.1	69.5	67.1	63.3	54.1	46.7	42.3	42.0	44.8	47.6	53.5
24	49.6	51.8	53.5	53.1	50.4	55.3	49.7	49.9	49.8	52.7	58.3	54.5	56.5	62.9	65.1	65.9	62.9	60.0	54.6	47.5	44.1	43.3	44.3	47.1	53.4
25	49.9	52.0	52.8	56.4	52.4	54.2	51.6	55.3	54.5	53.2	51.3	54.9	58.1	61.1	64.8	63.5	62.0	58.3	55.9	51.8	48.6	44.4	43.5	45.7	54.0
26 Q	50.1	51.6	53.4	52.3	52.4	52.5	52.5	52.5	52.8	53.7	54.5	54.8	57.1	60.9	64.1	67.8	67.3	63.9	57.2	49.8	47.4	46.7	47.8	48.8	54.7
27 Q	51.2	52.3	52.2	52.5	53.2	52.9	52.4	52.4	55.5	54.9	52.5	53.5	57.1	61.3	63.3	64.5	63.4	60.2	53.5	51.2	49.4	48.7	47.1	47.7	54.3
28	49.6	49.6	50.8	51.0	51.9	52.6	53.7	57.9	59.5	53.1	58.1	57.2	60.2	62.3	63.2	63.0	59.8	54.0	51.0	50.5	51.6	49.0	47.5	48.4	54.4
29	52.3	50.4	57.4	50.1	51.6	50.6	63.9	55.2	48.6	33.6	63.4	58.5	57.3	74.8	65.5	67.2	63.7	46.4	49.4	49.8	46.7	48.6	51.4	53.5	54.6
30	54.3	54.3	55.4	54.6	60.9	59.6	54.9	61.0	54.0	20.3	55.5	47.0	46.3	66.3	69.9	65.8	60.6	57.2	53.8	52.3	51.8	49.2	48.9	50.2	54.3
31	53.3	54.3	54.3	52.9	53.1	60.9	56.1	54.6	53.6	56.5	60.2	50.4	62.4	62.8	65.2	62.7	61.0	60.0	53.3	50.4	48.0	49.0	49.8	51.5	55.7
Mean	51.0	51.7	53.1	52.9	52.2	52.3	50.5	49.6	51.0	50.9	54.1	57.1	61.0	64.9	67.7	66.5	65.7	60.9	56.3	52.2	49.7	48.6	49.2	50.0	55.0

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

Table 31 Meanook

Z = 58,500  $\gamma$  +

August 1948

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	549	547	536	524	545	493	465	457	404	396	430	340	458	495	504	505	504	502	500	505	504	521	549	538	490
2	550	551	538	516	516	526	359	364	483	386	416	444	440	391	472	485	492	503	501	509	525	513	515	517	480
3	515	511	507	516	522	522	503	448	463	437	354	440	465	480	478	480	485	494	497	503	506	514	511	516	486
4	515	519	537	549	533	534	515	456	442	476	367	421	515	413	464	481	515	504	535	550	560	538	528	522	500
5	531	540	547	570	549	529	517	513	506	497	483	413	452	477	484	484	489	493	492	498	504	502	504	504	503
6	504	495	495	504	508	510	506	506	492	452	443	478	446	456	452	457	475	486	495	516	514	515	516	521	489
7	517	509	506	525	545	489	432	466	496	472	446	453	401	357	468	507	513	511	506	502	499	511	512	514	486
8 D	571	619	584	582	442	444	515	715	658	741	774	728	812	837	631	587	601	582	596	621	620	535	440	487	613
9 D	529	562	543	444	470	550	553	509	496	534	446	471	464	459	475	494	500	509	519	541	551	593	635	625	520
10 D	594	594	591	597	605	500	488	313	654	671	599	378	430	468	515	473	435	490	529	606	538	520	537	540	528
11 D	553	561	529	524	520	518	418	716	526	529	529	512	510	516	511	495	501	500	502	502	516	540	545	516	525
12	535	583	566	530	526	492	273	670	503	428	400	477	454	489	474	474	493	508	521	557	590	541	556	584	509
13	606	608	580	509	562	553	545	505	459	442	449	509	519	532	523	520	519	524	520	521	521	521	521	521	525
14	521	521	521	517	512	508	504	504	503	509	509	470	390	462	498	487	491	504	511	520	513	512	523	536	502
15	531	529	508	512	510	503	502	510	486	500	510	510	512	510	506	501	499	499	499	508	513	520	531	531	510
16 Q	540	533	532	529	513	509	502	502	502	502	500	507	511	511	511	509	507	503	502	500	502	511	513	511	511
17 Q	512	511	509	507	504	503	500	500	500	500	502	507	507	506	502	500	504	502	500	502	502	511	521	526	506
18 Q	527	523	520	514	506	499	501	501	494	436	474	500	501	501	501	498	493	490	495	500	503	510	511	510	500
19	511	504	502	502	502	501	501	502	502	502	502	503	505	504	503	500	500	491	491	496	495	501	512	556	504
20 D	599	651	588	505	456	351	424	511	508	516	504	475	479	391	450	504	509	512	510	520	532	518	513	540	503
21	532	544	538	556	561	554	557	537	510	506	482	362	328	251	299	413	467	486	508	512	536	566	564	560	489
22	532	524	522	522	533	548	530	520	512	434	509	523	526	526	520	522	522	513	495	503	512	535	537	535	519
23	527	557	604	610	531	515	505	504	511	504	503	515	526	525	520	507	510	511	509	517	530	534	534	536	527
24	534	536	542	542	540	540	527	519	508	464	458	515	521	523	522	510	504	507	523	525	534	545	537	533	521
25	531	535	537	542	543	527	525	505	499	487	468	512	524	519	517	519	518	517	519	520	547	561	547	534	523
26 Q	526	526	528	526	519	516	516	516	516	516	518	521	526	523	519	516	516	514	514	524	526	524	523	522	520
27 Q	519	517	517	518	520	517	518	516	515	508	460	483	509	518	518	517	513	510	507	517	527	533	540	530	514
28	527	524	527	528	527	540	543	507	474	394	389	507	528	524	514	511	503	504	517	525	539	560	592	611	517
29	582	613	595	627	621	534	334	496	467	302	399	445	448	237	337	472	453	469	507	539	554	563	567	580	489
30	596	603	626	609	497	425	518	400	400	517	479	497	596	422	495	553	558	551	555	562	576	587	576	575	532
31	549	544	548	541	540	547	522	521	506	443	488	508	459	509	486	508	541	540	551	560	560	551	562	564	527
Mean	541	548	543	535	525	510	488	507	500	484	477	481	492	478	489	500	504	507	514	525	531	532	534	539	512



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32 Meanook

August 1948

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range $\gamma$	Maximum 24° E +		Minimum 24° E +		Range '	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range $\gamma$
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1	04 44	873	10 10	405	468	08 22	74.8	10 50	35.9	38.9	23 02	571	11 47	298	273
2	01 39	883	13 18	498	385	06 17	80.5	11 07	41.8	38.7	01 42	577	09 55	208	369
3	05 14	817	09 52	562	255	10 47	70.4	09 47	43.8	26.6	05 37	531	10 18	294	237
4	16 02	855	11 57	-105	960	11 55	150.7	10 04	-29.6	180.3	12 04	802	10 20	181	621
5	03 45	868	11 30	634	234	04 18	71.3	20 15	43.3	28.0	03 48	603	11 34	342	261
6	16 46	814	15 18	723	91	05 15	78.7	10 19	43.8	34.9	05 37	545	09 18	406	139
7	23 05	895	10 12	583	312	07 16	81.4	04 55	47.1	34.3	04 45	573	13 33	310	263
8 D	23 02	1288	06 20	-200	1488	14 43	157.1	09 37	-40.7	197.8	13 10	1106	06 45	183	923
9 D	00 31	1177	09 14	448	729	15 00	80.5	08 46	-17.6	98.1	22 17	720	04 55	388	332
10 D	01 33	1343	06 33	-291	1634	18 28	116.5	06 30	-75.1	191.6	06 48	905	07 30	162	743
11 D	06 23	1055	07 34	384	671	16 41	75.0	07 46	20.8	54.2	07 27	775	06 12	370	405
12	22 24	884	07 27	-69	953	05 45	82.9	07 18	-71.0	153.9	07 27	970	06 25	204	766
13	03 48	961	09 22	474	487	15 55	73.0	10 06	30.3	42.7	00 45	638	09 37	392	246
14	22 51	806	12 18	621	185	15 07	68.3	21 28	40.4	27.9	23 27	549	12 18	346	203
15	23 28	802	00 07	705	97	16 41	70.1	00 50	45.4	24.7	00 55	549	08 24	475	74
16 Q	01 18	801	19 55	720	81	17 03	66.2	21 29	44.0	22.2	00 02	548	10 33	493	55
17 Q	14 40	813	18 59	710	103	16 18	73.0	22 25	43.0	30.0	23 00	534	18 05	497	37
18 Q	10 34	807	09 10	670	137	15 45	70.8	21 08	42.1	28.7	00 05	534	09 03	388	146
19	23 45	930	19 38	661	269	15 52	70.1	23 39	36.6	33.5	23 36	577	18 28	484	93
20 D	02 01	1182	05 41	405	777	13 28	96.3	06 42	-34.5	130.8	01 15	696	05 42	197	499
21	03 40	908	13 37	397	511	12 50	95.9	11 10	32.1	63.8	03 34	610	14 48	173	437
22	05 12	812	09 34	616	196	16 12	76.1	09 36	36.9	39.2	05 10	569	09 37	343	226
23	02 53	1168	18 26	694	474	15 34	73.2	03 06	26.1	47.1	03 27	666	09 57	472	194
24	08 12	837	10 03	653	184	10 07	74.0	09 22	40.9	33.1	05 11	569	10 03	385	184
25	02 42	813	19 54	715	98	14 20	66.3	22 08	42.4	23.9	22 06	570	10 12	443	127
26 Q	13 55	803	17 51	737	66	16 24	69.6	21 10	45.5	24.1	02 46	537	18 00	505	32
27 Q	13 37	812	19 10	745	67	15 12	65.2	22 52	46.6	18.6	22 23	545	10 27	430	115
28	23 52	844	10 06	456	388	10 20	65.7	09 49	44.3	21.4	23 50	626	09 51	255	371
29	02 50	935	12 17	322	613	12 17	82.9	09 44	-9.6	92.5	03 45	660	13 27	172	488
30	02 35	954	09 40	101	853	04 50	96.8	09 45	-36.5	133.3	12 23	708	08 54	168	540
31	23 52	824	08 49	502	322	09 47	73.0	11 54	43.0	30.0	22 53	575	09 25	370	205
Mean		921		467	454		82.1		19.4	62.7		643		333	310
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 1948

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	859	1018	933	1009	909	866	810	656	656	646	668	765	373	514	714	803	794	777	757	739	738	751	771	770	762	
2 D	804	801	816	960	754	748	750	532	450	586	654	485	630	734	746	773	767	754	726	749	756	768	768	785	721	
3																										
4	785	785	792	789	771	773	771	724	403	434	695	629	703	754	761	750	731	745	743	754	767	765	791	796	725	
5 Q	792	783	783	789	801	792	793	778	622	718	804	802	796	796	791	775	757	746	739	746	754	773	780	785	771	
6 Q	785	782	785	790	785	793	799	789	795	796	794	785	765	782	786	775	756	759	756	762	771	782	786	780	781	
7	805	788	785	797	799	801	805	805	801	801	783	788	783	790	790	779	761	747	748	749	763	770	778	772	783	
8	788	785	785	784	788	788	791	791	777	781	772	781	784	777	772	774	764	753	749	749	753	762	784	763	775	
9	801	803	771	781	790	792	786	789	787	775	781	785	785	781	783	773	750	730	728	725	738	761	770	776	773	
10	781	778	782	785	785	786	790	792	792	791	792	795	795	799	795	789	759	767	761	769	776	773	784	785	783	
11	785	785	785	785	789	795	809	804	799	800	644	742	750	750	765	715	734	722	726	737	751	777	824	778	765	
12	777	808	828	852	902	878	812	806	785	782	784	783	782	761	531	687	746	729	699	712	742	761	785	790	772	
13	799	784	783	783	784	791	803	799	776	760	768	807	799	798	790	775	753	738	742	753	768	769	783	782	779	
14	775	776	776	791	814	876	838	814	799	733	745	729	791	791	784	768	753	744	744	753	768	776	784	783	779	
15	781	787	788	788	791	791	789	791	791	791	777	737	784	784	736	737	753	733	745	749	749	776	971	978	788	
16	955	904	967	969	869	807	815	612	714	798	791	784	781	760	744	736	721	721	690	734	753	799	815	776	792	
17	781	773	770	777	781	792	789	777	777	772	714	699	738	796	785	767	746	730	754	754	761	777	785	785	766	
18	777	777	777	776	788	786	785	784	783	776	776	765	774	760	765	758	741	737	729	741	741	756	809	846	771	
19	811	788	784	776	779	784	780	780	784	780	776	781	784	784	780	768	753	749	738	753	753	772	784	776	775	
20 Q	772	776	777	784	786	791	791	788	749	798	792	788	784	776	772	753	753	737	729	728	742	760	776	777	770	
21	777	777	777	789	792	792	785	769	769	781	789	777	778	789	789	769	753	741	734	738	746	765	786	785	773	
22	799	800	784	792	793	808	812	800	792	792	796	800	800	801	796	785	768	754	746	749	770	789	820	789	789	
23	783	784	791	780	795	826	808	795	768	791	784	780	698	768	791	791	767	745	744	760	760	768	798	803	778	
24 D	819	840	846	962	877	799	780	791	745	682	597	581	659	737	769	756	725	717	737	747	760	812	792	830	765	
25 D	897	827	760	761	775	807	687	468	417	393	293	242	131	259	592	689	728	702	717	760	749	798	800	846	629	
26	938	814	847	815	862	845	788	737	464	326	619	659	620	741	784	742	768	768	758	756	774	769	780	799	741	
27 Q	780	771	774	775	776	777	778	778	780	757	761	769	787	792	785	780	776	773	768	760	756	760	760	764	772	
28 Q	768	772	780	784	784	784	788	784	788	789	792	792	791	788	788	788	768	768	758	756	760	766	772	772	778	
29 D	776	788	779	777	807	771	776	714	677	533	486	573	643	686	597	554	690	807	772	783	768	761	784	838	714	
30	807	877	810	816	740	791	777	733	730	795	749	620	566	792	745	717	746	760	777	776	774	781	790	784	761	
31																										
Mean	805	805	801	814	802	801	789	751	716	716	723	718	712	746	753	753	751	747	742	750	757	772	793	796	763	

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 34 Meanook

D = 24° E + ...'

September 1948

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	48.8	50.0	47.7	36.4	39.0	45.5	49.4	43.1	47.8	52.4	52.5	56.1	57.6	79.6	73.6	66.3	64.6	61.3	54.7	58.1	65.2	48.5	45.8	48.6	53.9
2 D	50.0	55.3	57.7	48.0	52.0	45.3	52.9	34.5	43.9	42.1	51.6	39.1	52.7	62.4	66.7	66.3	61.9	57.2	50.3	48.1	47.4	51.1	50.2	53.2	51.7
3																									
4																									
5 Q	55.8	55.8	56.6	52.9	54.2	52.9	56.9	61.0	83.5	98.1	59.9	66.2	55.3	63.7	70.8	70.3	66.1	57.1	52.8	51.0	45.3	47.2	49.2	50.2	59.7
	51.4	52.3	52.3	52.3	53.2	53.3	51.0	50.7	44.3	46.9	52.9	55.1	57.0	60.1	62.0	63.7	64.3	61.1	54.4	49.8	46.5	46.8	48.8	51.5	53.4
6 Q	53.0	52.1	51.3	51.8	54.1	57.4	57.9	56.2	54.2	54.1	54.0	50.5	51.0	59.9	62.0	62.0	59.9	56.3	52.9	50.9	50.2	49.8	48.6	49.3	54.1
7	49.8	49.8	50.7	51.6	53.0	87.7	57.8	53.7	52.3	53.7	54.1	53.9	55.0	57.3	59.4	62.4	60.6	60.1	59.9	52.8	48.9	48.4	47.6	48.0	55.4
8	47.0	47.0	48.4	51.1	48.3	51.7	52.0	52.1	54.0	54.8	51.8	54.6	56.5	56.9	57.3	57.8	58.4	57.3	54.0	51.5	49.1	48.3	47.0	48.9	52.3
9	45.2	44.3	51.0	52.2	51.6	54.2	50.9	51.4	51.7	50.3	55.5	54.9	57.5	58.1	61.1	63.9	62.9	57.6	51.5	48.5	45.1	44.3	47.4	49.1	52.5
10	51.2	51.3	50.9	51.3	51.1	51.0	50.9	51.1	51.8	52.6	54.0	54.6	58.0	62.1	64.6	66.0	72.3	57.0	48.2	48.3	48.2	48.6	48.7	48.3	53.8
11	49.5	50.5	50.1	50.3	50.3	49.5	54.1	48.4	53.0	56.2	54.1	55.4	57.0	67.9	71.1	64.6	59.3	51.5	48.9	48.9	47.7	48.2	46.7	47.0	53.3
12	45.2	44.3	52.2	45.2	41.2	50.7	48.7	51.6	51.8	52.8	54.4	55.4	61.6	61.1	60.5	68.9	62.4	64.3	51.2	44.3	46.1	48.4	48.7	49.2	52.5
13	47.8	49.1	51.8	51.3	50.9	49.7	54.7	51.1	54.5	54.0	52.6	55.5	59.8	61.9	62.0	62.2	60.6	57.6	51.9	48.5	48.2	49.6	51.1	52.2	53.7
14	51.1	50.3	49.9	49.8	47.5	56.4	46.3	50.5	51.2	51.8	52.6	56.4	57.6	60.2	59.8	60.2	59.1	57.6	51.3	49.9	48.6	48.5	49.6	50.6	52.8
15	50.9	50.1	49.8	49.1	47.7	48.3	49.0	50.6	52.6	57.3	59.0	56.5	62.7	64.1	61.2	54.9	59.3	58.3	56.7	52.2	48.3	46.2	47.0	42.5	53.1
16	35.6	32.7	39.9	42.2	44.5	46.4	47.0	46.6	51.3	54.7	55.4	55.9	56.9	60.6	62.2	63.8	60.1	52.5	41.4	43.3	45.2	48.5	50.0	50.9	49.5
17	49.9	51.0	50.6	49.6	49.9	50.3	50.1	47.8	53.0	54.1	54.1	61.0	64.4	60.5	60.5	61.6	60.4	57.9	52.1	52.5	50.6	51.5	52.0	52.0	54.1
18	52.5	51.3	50.3	50.3	48.3	49.9	52.2	51.8	53.0	55.0	57.6	56.8	57.9	59.8	64.1	62.2	60.5	58.3	55.9	52.5	47.7	45.2	45.2	43.5	53.4
19	50.0	46.7	48.5	50.6	48.8	53.6	51.5	53.6	52.5	53.2	55.1	55.0	55.8	57.3	59.3	61.7	62.0	59.9	57.8	50.3	49.1	50.3	49.9	51.8	53.5
20 Q	51.1	50.5	50.3	50.9	50.7	50.9	51.8	55.7	57.2	55.9	59.9	59.6	59.3	61.2	62.8	61.5	62.1	64.1	54.7	53.3	50.1	48.6	46.8	49.1	54.9
21	50.0	50.3	51.1	51.5	51.2	51.1	52.6	63.3	58.1	55.7	54.2	51.9	52.6	56.9	61.1	65.7	66.3	63.1	54.7	54.0	45.1	44.1	44.1	47.1	54.0
22	44.2	44.4	46.9	47.9	51.1	48.2	49.4	51.0	52.1	53.1	53.9	54.2	55.2	57.1	60.6	64.3	66.7	62.6	57.0	51.1	45.1	45.3	41.7	44.6	52.0
23	50.5	49.4	49.5	49.8	49.6	50.8	50.4	51.9	56.1	53.9	54.2	55.5	55.0	61.8	67.2	69.0	67.0	62.2	50.1	50.4	48.4	46.6	44.6	43.2	53.6
24 D	43.4	44.3	44.7	49.1	45.4	52.4	53.1	51.7	59.5	61.8	73.4	60.1	55.2	61.1	63.0	59.8	54.3	54.2	48.4	46.4	48.2	47.4	51.4	50.8	53.3
25 D	48.5	52.6	51.2	51.0	50.5	56.6	57.8	57.2	62.7	49.6	85.2	57.0	31.9	72.6	65.2	53.4	55.1	55.1	48.9	46.5	46.3	47.6	48.9	50.0	54.2
26	51.1	49.9	47.3	60.9	46.4	55.1	55.3	51.6	37.2	48.4	65.0	67.2	64.0	65.4	61.4	56.7	57.6	56.6	54.5	48.7	50.8	49.3	50.3	50.1	54.2
27 Q	50.8	50.1	50.3	50.5	50.5	50.5	51.2	52.2	54.2	51.4	56.2	55.6	56.2	55.3	57.0	57.9	58.5	55.2	54.2	55.6	56.5	54.8	53.4	52.3	53.8
28 Q	51.5	51.4	51.3	51.4	51.4	51.5	52.8	53.2	53.8	53.8	54.2	54.3	54.3	56.1	58.1	61.0	62.0	61.5	58.6	56.2	53.3	52.0	52.0	52.0	54.5
29 D	51.2	51.0	50.6	48.4	49.9	59.5	50.6	57.4	47.5	56.5	110.1	66.4	65.9	67.3	69.0	51.4	51.4	52.5	52.2	49.9	50.6	52.3	52.3	51.4	56.9
30	52.0	58.6	49.6	52.9	51.5	51.7	51.5	55.1	56.1	56.8	50.0	54.4	50.7	58.2	61.2	58.7	55.1	53.6	53.1	53.4	51.5	52.1	52.5	53.6	53.9
31																									
Mean	49.3	49.5	50.1	50.0	49.4	52.8	52.1	51.9	53.5	54.9	58.5	56.2	56.4	61.6	62.9	62.0	61.1	58.1	52.8	50.6	49.1	48.6	48.7	49.3	53.7

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

Table 35 Meanook

$Z = 58,500 \gamma +$

September 1948

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	593	638	660	614	551	549	500	488	508	484	454	487	423	292	389	509	545	545	551	564	594	650	589	563	531		
2 D	576	595	597	621	320	454	484	420	362	299	405	395	438	478	499	522	527	531	529	531	546	558	564	552	492		
3																											
4	543	541	547	543	550	552	527	437	223	196	458	424	487	496	491	495	503	534	538	555	562	554	568	565	495		
5 Q	563	554	554	552	541	481	543	508	358	450	523	538	538	538	537	531	530	528	530	530	539	539	538	537	524		
6 Q	530	530	530	529	532	520	487	491	518	519	521	511	477	475	553	556	509	514	522	532	539	552	561	560	524		
7	562	554	546	546	554	473	538	551	538	538	530	539	536	542	542	541	536	528	527	525	521	521	529	529	535		
8	529	529	541	553	550	535	529	520	492	495	483	497	519	521	519	527	528	528	527	528	530	530	537	528	524		
9	542	560	547	522	525	538	540	533	526	506	499	522	520	523	525	522	522	523	524	529	534	536	535	530	528		
10	529	525	522	520	524	522	521	516	527	523	520	521	518	516	509	505	502	496	491	501	511	512	516	516	515		
11	519	520	520	520	521	530	526	534	511	500	417	434	457	444	475	464	496	509	546	559	564	584	580	545	511		
12	538	573	619	616	653	594	550	540	540	537	527	526	516	499	274	328	457	504	509	511	529	544	542	540	524		
13	541	543	529	523	520	530	527	531	491	454	474	524	525	524	517	517	522	523	526	526	527	527	527	527	520		
14	516	518	518	518	536	547	534	543	550	487	474	452	507	513	520	523	524	523	535	535	535	534	525	522	520		
15	516	520	522	522	523	531	522	522	517	512	517	547	473	494	458	432	488	501	511	516	522	527	657	649	521		
16	649	667	581	446	502	519	547	474	491	537	530	526	523	522	517	521	521	520	505	513	526	543	565	559	534		
17	543	528	527	528	525	525	517	521	526	518	444	420	405	513	528	535	535	535	541	536	536	536	531	526	516		
18	528	525	527	527	528	528	530	528	528	523	523	512	509	506	506	513	512	515	517	528	535	537	548	569	525		
19	548	552	554	559	539	524	513	510	517	517	510	513	512	519	517	519	519	519	528	528	528	528	517	526			
20 Q	512	512	512	512	513	516	522	471	396	486	497	497	503	502	504	505	506	506	514	516	525	525	525	538	505		
21	517	506	506	506	509	515	522	483	495	496	507	494	492	508	515	513	513	515	508	522	520	518	515	515	509		
22	516	534	544	531	523	543	548	534	519	518	508	507	507	511	514	518	518	518	512	507	507	510	524	510	520		
23	513	531	560	540	535	527	527	505	492	506	501	500	421	466	500	511	506	501	513	523	527	529	531	555	513		
24 D	572	577	598	628	641	563	526	538	497	545	533	503	480	505	522	516	511	515	527	553	542	563	576	580	546		
25 D	628	615	537	525	530	543	428	431	256	154	432	439	264	415	459	465	466	498	556	562	564	557	567	598	479		
26	574	554	588	512	595	565	535	502	455	449	360	428	384	414	489	485	504	514	530	537	546	545	543	552	507		
27 Q	540	527	518	516	513	513	513	519	514	475	443	480	498	507	509	509	509	509	517	508	507	514	513	513	508		
28 Q	508	508	508	508	508	508	508	508	508	508	508	508	506	506	506	504	502	500	506	501	501	501	502	506	506		
29 D	505	507	517	529	541	441	464	482	575	659	669	616	484	400	445	382	482	525	553	553	551	538	543	572	522		
30	596	591	549	520	466	483	515	454	418	504	504	453	375	469	461	465	499	504	519	524	523	522	523	522	498		
31																											
Mean	546	549	548	537	530	523	519	503	478	479	492	494	476	487	493	498	510	517	525	529	534	539	545	545	516		

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36 Meanook

September 1948

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range	Maximum 24° E +		Minimum 24° E +		Range	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 D	01 40	<u>1205</u>	12 37	130	1075	13 51	90.0	03 35	26.0	64.0	02 42	700	13 26	195	505
2 D	03 55	1046	07 44	204	842	04 16	107.2	08 50	-58.4	165.6	08 00	724	08 23	112	612
3															
4	23 09	820	09 00	-99	919	09 17	148.3	20 46	44.4	103.9	22 35	586	08 45	036	550
5 Q	05 10	835	08 42	450	385	16 18	65.5	08 55	32.0	33.5	00 49	577	08 32	193	384
6 Q	22 16	811	16 22	739	72	06 20	68.6	11 55	45.6	23.0	22 58	571	06 32	455	116
7	06 25	872	18 54	731	141	05 27	122.2	06 15	47.0	75.2	06 25	619	05 31	392	227
8	22 55	823	18 31	737	86	17 36	60.7	00 40	43.5	17.2	03 25	565	08 45	466	99
9	00 42	839	19 09	715	124	15 37	70.2	00 45	41.9	28.3	01 53	587	09 48	445	142
10	15 13	820	18 00	736	84	16 14	77.3	18 50	45.7	31.6	00 55	532	18 02	482	50
11	22 42	851	10 33	504	347	14 06	73.1	10 33	36.5	36.6	21 57	595	10 46	320	275
12	05 05	964	14 43	429	535	15 21	80.9	04 55	32.6	48.3	04 24	684	14 44	182	502
13	11 08	834	17 37	731	103	12 55	63.2	01 02	44.3	18.9	01 07	558	10 17	439	119
14	05 34	928	11 13	665	263	05 47	70.6	06 32	39.9	30.7	06 38	569	11 22	405	164
15	22 27	992	14 55	684	308	13 47	65.8	23 52	36.4	29.4	22 29	686	15 05	406	280
16	03 10	1029	07 38	364	665	08 28	69.4	01 06	25.1	44.3	01 40	696	07 31	311	385
17	05 32	811	12 07	658	153	13 26	67.3	17 16	42.3	25.0	00 12	563	12 10	325	238
18	23 55	885	17 36	725	160	14 53	66.1	23 55	39.4	26.7	23 48	593	14 13	490	103
19	00 00	862	18 26	721	141	18 17	66.3	00 15	44.1	22.2	03 07	597	07 07	494	103
20 Q	07 25	813	18 31	712	101	17 21	66.5	08 47	42.8	23.7	23 23	547	10 25	350	197
21	22 52	812	19 38	721	91	16 41	69.3	21 37	40.6	28.7	19 05	540	07 42	440	100
22	22 12	871	18 45	718	153	16 29	70.1	23 16	35.5	34.6	05 50	577	23 42	480	97
23	05 50	875	12 25	660	215	15 49	72.6	23 16	41.3	31.3	02 54	596	12 27	382	214
24 D	03 21	1021	11 06	498	523	10 45	83.2	04 15	31.2	52.0	04 23	691	11 47	410	281
25 D	00 48	963	11 53	<u>-114</u>	<u>1077</u>	10 34	147.7	12 40	-16.0	163.7	13 37	782	09 07	<u>-92</u>	<u>874</u>
26	00 39	1115	09 09	090	1025	09 38	69.1	09 00	27.8	41.3	09 22	656	09 45	260	396
27 Q	13 21	801	09 36	703	98	16 17	59.5	09 43	44.5	15.0	00 12	552	09 51	431	121
28 Q	12 04	798	17 55	749	<u>49</u>	17 05	62.4	01 47	50.6	<u>11.8</u>	12 14	512	19 30	496	<u>16</u>
29 D	06 15	846	08 55	189	657	10 25	<u>167.1</u>	09 00	<u>-62.9</u>	<u>230.0</u>	10 27	<u>829</u>	11 48	311	518
30	01 18	932	12 16	392	540	04 51	77.6	04 01	25.5	52.1	01 25	632	12 13	343	289
31															
Mean		899		522	377		82.0		30.0	52.0		618		344	274
No. days		29		29	29		29		29	29		29		29	29

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

Table 37 Meanook

H = 12,000  $\gamma$  +

October 1948

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 D	780	846	798	803	850	760	760	815	536	239	076	223	223	480	658	772	788	777	768	768	784	791	788	783	661
2	780	784	776	772	791	530	150	483	472	532	266	328	306	272	466	764	811	784	769	776	784	784	799	798	616
3	784	776	776	783	795	776	784	784	694	679	664	585	456	632	628	628	643	675	760	753	760	772	797	784	715
4	768	776	774	774	776	799	772	754	799	784	784	784	784	783	772	764	760	760	749	733	729	791	822	811	775
5	823	854	803	823	805	760	791	812	774	725	784	767	753	760	784	780	760	746	746	753	760	769	776	768	778
6 Q	784	784	781	784	784	784	784	781	780	780	784	784	784	784	783	776	760	760	753	753	753	760	768	776	775
7	781	781	777	784	784	788	788	791	791	788	788	788	795	795	791	784	775	767	756	753	760	764	767	781	780
8 Q	767	776	783	790	787	787	787	790	783	689	767	791	799	790	783	783	779	767	755	763	763	775	773	779	775
9 Q	781	784	788	788	788	784	788	791	791	795	794	791	791	791	791	791	781	784	761	763	768	774	780	768	784
10	779	783	790	810	801	857	225	406	568	701	712	775	783	775	770	783	779	783	798	791	776	795	783	791	734
11	781	784	791	784	791	819	834	721	781	807	768	698	682	777	730	745	737	753	757	777	795	784	784	776	769
12	776	784	784	788	799	807	803	815	799	791	663	610	745	776	784	768	760	768	775	776	778	791	784	776	771
13	776	778	791	791	791	788	791	791	780	791	791	791	790	790	787	791	768	745	740	760	776	780	783	784	781
14	769	783	788	784	789	799	799	799	783	643	696	703	777	763	751	688	722	746	768	788	799	846	892	1056	780
15 D	1080	1222	1048	788	663	744	725	357	584	534	428	492	251	335	357	605	641	706	741	729	819	768	774	768	673
16 Q	760	763	781	799	799	783	772	772	774	776	776	776	768	776	775	767	753	733	725	746	755	760	768	772	768
17	770	774	774	778	780	780	786	797	821	801	786	786	782	781	782	782	771	766	765	768	781	789	868	657	780
18 D	836	1070	899	976	805	782	789	735	727	770	751	732	697	734	743	727	678	712	704	749	820	766	814	883	787
19 D	800	852	1070	916	785	521	281	028	-109	541	548	348	516	516	443	659	743	774	741	784	805	791	791	788	622
20	780	784	777	772	769	773	769	769	769	769	772	770	768	745	596	562	585	667	721	760	784	791	745	763	740
21 D	808	820	824	785	800	670	715	422	104	242	449	242	715	833	793	686	468	644	729	817	808	781	753	754	653
22	769	777	776	789	785	789	635	496	671	541	289	327	302	571	797	804	775	766	730	707	773	870	816	829	683
23	801	785	792	800	778	754	715	714	808	622	587	390	441	676	519	609	700	747	743	742	776	831	803	806	706
24	800	820	782	791	785	773	723	733	784	788	770	700	395	552	590	729	705	697	722	746	778	753	782	767	728
25	768	781	785	789	787	754	785	753	770	777	767	783	783	743	740	651	730	777	773	757	770	762	759	769	763
26	799	801	855	837	803	806	777	636	769	795	762	662	685	717	715	690	731	715	756	755	764	770	802	824	759
27	804	817	818	799	778	796	785	758	512	687	738	498	141	223	689	775	782	756	731	761	776	757	793	777	698
28	784	785	789	778	792	800	785	785	778	783	781	775	757	778	789	778	769	769	757	757	767	777	777	776	778
29	778	779	777	777	778	782	792	778	778	778	761	705	648	746	801	792	770	761	761	754	756	767	754	754	764
30 Q	769	777	778	788	780	793	793	785	783	785	785	785	779	785	789	789	784	777	773	774	777	781	785	784	782
31	777	785	781	793	792	793	746	699	700	637	715	784	792	746	754	770	777	769	761	765	768	770	785	789	760
Mean	794	815	810	800	787	766	717	689	682	689	671	644	635	685	708	735	735	747	751	761	776	783	789	790	740

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION

Mean values for periods of sixty minutes, Universal Time

Table 38 Meanook

D = 24° E + ...'

October 1948

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 D	53.7	52.8	50.6	47.1	43.1	78.3	61.6	47.9	60.0	55.6	63.4	85.7	57.6	58.0	78.1	64.8	62.6	58.7	54.4	50.9	51.3	50.5	50.3	51.3	57.8
2	50.7	50.4	50.9	52.4	46.7	12.8	45.2	52.6	66.3	76.8	80.4	94.0	85.9	71.0	44.5	67.4	60.2	56.4	51.9	49.3	49.0	51.5	52.5	53.4	57.2
3	54.0	54.0	54.0	54.8	58.8	52.3	50.9	53.7	55.2	58.1	65.3	58.6	64.1	78.1	54.5	56.6	49.9	49.4	54.5	42.8	44.7	47.7	46.9	46.7	54.4
4	49.2	52.1	54.7	54.1	52.6	57.9	65.4	58.9	52.1	53.0	55.7	57.3	56.7	58.7	59.6	58.8	59.2	56.1	54.6	49.9	44.9	46.8	45.6	42.9	54.0
5	41.9	46.8	61.8	48.3	53.1	77.6	49.5	52.4	52.6	52.1	56.7	57.3	56.3	56.3	59.3	60.4	61.1	55.7	51.9	51.5	50.5	50.5	51.2	51.9	54.4
6 Q	50.6	49.5	53.4	50.0	52.1	52.1	52.6	52.4	53.4	54.1	54.1	54.1	55.3	56.8	59.4	61.3	61.3	59.2	56.7	51.7	50.5	50.2	51.5	52.0	53.9
7	49.8	49.9	50.9	51.2	51.7	51.7	52.1	53.6	54.1	57.0	58.1	56.0	56.3	56.6	58.3	61.1	61.8	59.7	57.6	52.2	48.2	46.6	47.3	45.3	53.6
8 Q	48.6	50.7	51.5	50.2	52.1	51.8	51.7	52.8	54.6	61.1	59.3	60.4	59.2	57.5	60.2	61.8	60.5	58.2	56.6	53.5	50.2	50.1	50.7	48.8	54.7
9 Q	48.9	51.2	51.6	51.8	51.8	51.2	52.7	53.8	53.6	53.5	53.9	54.3	55.0	55.5	57.1	60.2	63.4	62.7	53.1	51.8	51.0	49.7	47.3	49.0	53.5
10	50.3	47.4	49.2	49.2	61.2	49.4	58.6	37.0	42.8	61.1	56.8	56.8	55.6	57.6	59.8	60.7	59.8	56.6	54.0	51.5	49.3	48.6	49.1	47.0	52.9
11	46.0	47.6	47.8	49.7	49.5	49.2	53.6	48.3	39.9	57.6	60.8	59.6	58.2	58.8	60.0	61.3	61.3	56.3	55.5	50.0	53.1	52.0	52.4	52.8	53.4
12	52.6	50.7	50.1	49.7	52.5	48.9	52.4	63.1	53.6	52.6	55.5	45.8	60.1	63.3	59.4	61.5	60.2	58.0	54.0	51.1	51.1	50.3	50.6	49.3	54.0
13	48.7	49.3	51.4	55.1	51.3	50.8	50.8	54.9	50.3	52.7	55.8	55.9	56.1	57.1	59.0	59.9	63.2	55.6	50.5	47.1	50.2	51.3	51.4	50.0	53.3
14	51.9	50.6	49.3	50.8	51.0	48.9	52.5	50.8	54.6	69.2	66.2	60.0	62.0	65.0	61.3	59.4	50.4	43.0	48.9	51.8	55.2	58.5	56.8	59.2	55.3
15 D	53.7	42.3	53.8	54.7	47.9	44.8	42.4	26.5	63.6	68.0	67.4	71.3	71.6	66.8	50.7	57.1	45.9	56.6	52.2	52.6	55.4	53.2	56.1	56.0	54.6
16 Q	54.1	53.5	50.8	51.4	53.2	51.3	51.6	51.8	52.7	54.5	55.0	54.7	54.1	56.5	59.3	61.8	60.9	57.6	47.9	49.5	49.8	52.3	54.2	54.8	53.9
17	53.5	52.9	52.9	52.6	52.6	52.5	51.7	53.5	63.6	52.6	53.9	55.5	56.0	57.3	59.3	60.5	61.8	59.4	55.7	53.2	52.5	48.8	67.4	67.6	56.1
18 D	64.7	58.8	50.3	42.6	57.3	51.1	49.1	48.3	52.3	51.2	57.4	57.0	51.5	55.1	60.3	64.4	60.4	60.9	55.7	54.4	52.8	48.8	56.6	64.0	55.2
19 D	59.4	14.6	28.9	44.5	38.1	51.9	48.6	36.4	108.9	21.0	48.4	32.6	59.2	73.5	59.0	51.2	66.5	55.6	52.6	59.0	53.9	53.4	53.1	56.1	51.1
20	56.0	55.5	57.3	56.9	56.7	55.5	54.4	54.1	53.1	53.6	53.9	54.1	53.7	52.3	46.3	34.1	42.8	51.6	47.8	51.5	51.5	51.8	50.5	50.5	51.9
21 D	49.2	59.3	58.7	54.9	68.9	47.3	49.1	60.5	39.4	60.1	68.6	16.9	57.6	58.9	58.4	54.4	52.1	47.3	63.4	58.8	54.1	48.6	48.1	53.1	53.7
22	56.0	55.3	54.7	54.6	54.2	53.0	66.6	33.5	63.6	59.0	31.3	49.8	51.9	55.8	62.9	68.0	66.4	58.2	54.6	51.3	53.7	50.3	50.7	48.8	54.3
23	48.9	51.8	54.6	58.0	53.2	57.4	55.2	48.5	56.5	50.6	43.9	67.4	51.0	55.4	39.3	31.9	53.1	51.3	47.1	50.1	54.1	52.7	50.3	49.6	51.3
24	53.5	58.1	53.2	53.5	54.9	59.9	47.3	60.5	57.6	55.0	56.6	60.1	50.1	63.8	60.5	58.1	53.3	56.1	53.0	54.7	49.8	49.3	50.2	52.3	55.1
25	52.6	53.7	54.7	54.8	53.7	42.0	57.6	58.9	54.7	54.8	53.6	53.7	55.4	54.2	45.0	46.9	54.5	54.5	56.2	52.8	51.8	54.2	52.9	52.7	53.2
26	49.6	50.3	59.4	50.4	53.8	55.8	63.2	39.5	59.5	53.3	55.7	52.7	51.4	60.1	57.1	54.3	57.4	49.4	51.7	51.4	51.3	51.3	51.6	51.6	53.4
27	50.8	54.9	60.4	54.7	52.8	57.2	73.1	54.3	62.4	52.5	60.4	62.5	12.9	72.2	45.7	57.3	59.7	54.3	52.2	52.7	51.6	50.2	51.7	52.0	53.4
28	54.1	54.7	52.0	56.1	54.2	56.0	56.9	54.6	52.7	53.6	54.0	55.1	55.2	58.0	60.0	61.3	61.3	59.0	54.9	53.7	52.9	51.4	52.3	52.2	55.3
29	53.8	51.9	52.9	54.6	55.6	53.6	60.6	50.0	52.4	52.6	53.2	55.4	56.8	57.7	60.1	59.5	57.3	51.8	51.3	50.9	49.8	49.8	50.4	50.5	53.9
30 Q	52.3	52.7	52.8	53.7	60.6	54.3	51.9	50.9	50.7	51.4	53.3	53.7	53.3	55.7	55.5	58.3	60.2	54.8	52.8	51.9	50.9	51.5	53.1	54.1	53.8
31	53.4	52.7	52.4	62.4	54.3	54.3	56.9	52.3	51.7	59.5	64.3	58.1	58.6	53.3	59.1	58.7	57.4	56.6	50.4	52.5	50.2	51.9	53.2	53.5	55.3
Mean	52.0	50.8	52.5	52.4	53.2	52.6	54.4	50.5	56.1	55.4	57.2	57.0	55.3	59.9	57.1	57.8	58.3	55.5	53.3	51.8	51.1	50.8	51.8	52.2	54.1

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

Table 39 Meanook

$z = 58,500 \gamma +$

October 1948

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	515	550	589	548	370	310	375	515	432	444	638	794	673	596	379	444	498	499	520	520	520	520	520	520	512
2	515	515	517	521	520	301	226	393	515	631	473	407	398	346	397	483	531	537	535	542	542	538	537	537	477
3	536	532	542	538	452	491	516	527	478	456	476	445	339	318	290	322	373	452	546	549	538	544	554	553	474
4	532	525	521	521	521	520	435	445	542	532	523	516	515	516	514	511	505	505	516	534	549	570	581	600	523
5	613	624	590	621	584	353	486	527	516	446	510	510	499	502	516	525	517	518	518	520	510	513	521	520	523
6 Q	521	522	530	523	521	522	512	516	516	516	516	516	512	515	515	516	515	512	507	507	511	517	518	518	516
7	523	523	523	523	523	523	517	518	519	509	509	499	505	515	516	516	517	514	513	513	516	531	524	545	518
8 Q	535	521	516	517	525	519	521	518	513	416	448	487	504	515	519	519	519	519	521	521	521	527	524	532	512
9 Q	520	522	522	518	516	516	520	520	522	522	518	515	518	520	521	525	524	522	515	515	515	525	526	526	520
10	520	529	532	551	580	525	391	315	520	606	569	501	524	525	529	538	532	529	528	533	529	528	528	522	520
11	525	538	539	529	539	561	539	389	484	544	519	475	453	506	464	506	501	507	528	545	545	529	530	529	514
12	530	531	535	546	550	563	551	507	486	535	466	433	487	503	539	523	530	546	535	537	535	539	535	535	524
13	542	537	541	548	533	542	544	533	511	509	515	526	526	520	521	524	521	520	515	527	530	536	533	535	529
14	537	533	534	533	534	548	556	546	529	393	391	474	506	484	498	473	496	508	544	544	550	561	631	615	522
15 D	566	471	476	488	444	510	525	314	457	546	498	352	320	379	401	470	525	567	579	586	607	572	564	556	491
16 Q	554	554	559	571	575	558	558	554	552	550	548	547	543	538	553	551	548	550	539	542	547	554	554	554	552
17	556	562	548	545	545	545	547	549	550	508	567	560	550	547	548	552	553	556	556	556	557	558	432	119	528
18 D	190	427	579	613	224	583	563	572	584	524	551	546	540	542	556	557	535	556	563	584	578	570	582	434	523
19 D	298	369	552	260	347	359	504	755	1076	820	745	557	463	387	477	493	613	606	601	617	591	582	582	592	552
20	591	581	584	575	564	567	571	565	564	564	564	564	560	560	489	468	500	510	573	574	581	603	580	571	559
21 D	606	628	602	598	545	377	441	418	318	598	517	565	425	505	523	539	410	507	692	682	658	620	588	587	540
22	583	583	578	578	578	581	512	480	474	470	211	251	330	444	482	551	552	551	577	620	659	661	631	626	523
23	624	629	605	585	569	458	413	391	465	461	332	303	335	497	394	359	494	558	568	584	623	634	619	613	505
24	614	613	584	598	593	550	495	478	544	564	557	485	339	297	399	540	517	549	593	607	603	581	593	598	537
25	591	583	579	572	575	536	545	497	539	545	551	552	560	530	467	464	507	578	567	561	571	575	569	564	549
26	583	619	626	637	609	591	551	386	470	560	540	488	493	454	502	497	540	551	560	569	578	590	624	637	552
27	627	632	616	620	594	592	557	539	442	468	465	346	190	600	419	540	571	572	573	615	615	605	605	602	542
28	589	586	590	585	584	541	533	556	563	568	570	567	547	547	558	563	569	573	570	572	574	575	575	582	568
29	576	575	575	575	576	576	531	531	555	550	532	482	457	463	541	554	559	559	558	563	574	583	578	574	550
30 Q	575	571	565	576	591	585	568	560	554	563	555	553	537	546	556	555	558	561	565	565	567	567	567	568	564
31	565	565	575	609	614	603	533	501	414	420	374	502	555	533	533	537	555	565	571	573	576	576	576	575	542
Mean	540	550	559	552	529	513	504	497	523	527	508	494	474	492	488	507	522	537	553	561	564	564	561	546	528



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40 Meanook

October 1948

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Range	Maximum 24° E +			Minimum 24° E +			Range	Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +			Range
	h.	m.	$\gamma$	h.	m.	$\gamma$		$\gamma$	h.	m.	'	h.	m.		'	'	h.	m.	$\gamma$	h.	
1 D	04	35	986	10	38	-66	1052	11	41	148.0	12	31	-9.4	157.4	11	22	1005	04	44	181	824
2	16	01	861	06	13	-94	955	10	45	83.9	06	48	-70.0	153.9	12	22	989	06	00	095	894
3	04	19	885	12	22	340	545	05	31	91.4	19	38	38.2	53.2	18	48	581	14	34	247	334
4	06	32	854	07	03	690	164	06	34	76.7	23	48	38.4	38.3	24	00	624	07	02	354	270
5	02	50	887	09	23	690	197	05	18	123.2	05	58	33.3	89.9	01	59	649	05	35	225	424
6 Q	02	49	791	19	33	745	<u>46</u>	16	02	63.0	01	23	48.8	<u>14.2</u>	02	08	541	18	53	503	38
7	13	05	799	19	26	741	58	16	38	63.1	23	58	42.9	20.2	23	47	559	11	17	486	73
8 Q	10	27	812	09	10	636	176	09	40	66.4	00	03	43.9	22.5	00	02	552	09	47	384	168
9 Q	22	30	801	18	20	754	47	16	59	67.6	22	43	44.1	23.5	00	00	536	20	30	511	<u>25</u>
10	05	39	912	06	14	064	848	06	40	96.3	07	42	35.4	60.9	09	32	644	07	49	135	<u>509</u>
11	07	27	914	11	32	594	320	07	28	89.2	08	20	27.6	61.6	05	53	580	07	33	243	337
12	07	45	868	11	04	367	501	07	30	77.6	11	35	36.2	41.4	05	36	578	11	17	265	313
13	08	36	817	18	54	721	96	16	42	69.7	19	00	38.2	31.5	03	24	564	08	47	476	88
14	23	52	<u>1329</u>	09	37	507	822	23	55	84.6	23	58	18.7	65.9	23	08	744	11	04	291	453
15 D	01	50	<u>1329</u>	12	30	044	1285	13	38	124.7	07	35	-27.8	152.5	10	00	775	12	43	028	747
16 Q	03	38	860	18	12	700	160	16	06	65.1	18	09	45.7	19.4	03	34	610	12	53	532	78
17	22	51	1035	23	46	509	526	22	45	95.2	22	12	40.4	54.8	22	18	677	23	44	<u>-09</u>	686
18 D	01	14	1191	04	55	508	683	01	38	84.3	05	23	-58.9	143.2	03	28	666	04	51	023	643
19 D	02	20	1314	08	45	<u>-280</u>	<u>1594</u>	08	15	<u>189.4</u>	01	57	<u>-52.1</u>	<u>241.5</u>	08	10	<u>1241</u>	00	12	202	1039
20	21	30	807	14	37	512	295	18	03	62.2	15	45	25.5	36.7	21	33	625	14	46	444	181
21 D	01	43	909	11	27	-139	1048	10	41	117.0	11	38	-29.1	146.1	11	10	793	08	40	065	728
22	04	42	839	10	48	097	742	11	53	102.5	10	50	-7.2	109.7	21	08	713	10	25	120	593
23	05	20	878	11	40	204	674	11	36	81.9	15	08	11.3	70.6	21	47	656	09	21	202	454
24	01	27	851	12	22	267	584	14	02	84.0	12	42	29.9	54.1	19	58	638	14	08	231	407
25	05	35	842	14	59	609	233	07	36	66.3	06	48	14.7	51.6	17	59	601	15	16	410	191
26	02	00	890	07	25	491	399	06	52	80.2	07	22	<u>-75.2</u>	155.4	02	02	676	07	50	243	433
27	00	30	852	12	09	-143	995	13	25	161.9	12	46	-52.0	213.9	13	22	1226	13	07	136	<u>1090</u>
28	05	18	842	19	19	746	96	05	27	68.2	05	58	40.3	27.9	00	12	609	05	37	479	130
29	06	35	814	12	18	602	212	06	20	74.7	08	30	46.8	27.9	22	07	589	11	45	408	181
30 Q	06	23	806	00	03	761	45	09	43	66.4	07	35	48.7	17.7	04	43	604	12	26	528	76
31	03	33	817	09	55	516	301	03	20	73.8	07	34	40.1	33.7	04	18	640	10	03	328	312
Mean			916			410	506			90.2			13.1	77.1			693			283	410
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 1948

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	784	784	784	788	791	791	792	792	784	737	717	753	745	769	807	800	786	753	735	753	760	788	791	918	779
2 D	963	985	928	886	936	554	578	360	558	720	627	632	665	794	727	638	549	683	744	745	772	814	862	846	732
3	862	920	958	869	807	807	807	784	776	791	784	784	775	753	760	760	760	741	737	733	745	768	791	777	794
4 Q	784	788	788	791	791	791	784	784	791	784	789	788	791	791	784	784	772	758	753	752	760	769	776	780	780
5 Q	784	791	791	791	789	791	791	783	730	719	784	788	791	795	795	792	776	768	756	753	756	768	776	784	777
6	791	792	791	784	784	791	791	791	792	793	798	800	805	807	808	807	803	788	769	767	764	776	788	784	790
7	788	803	803	803	804	802	807	812	807	799	799	730	753	799	809	806	792	780	767	767	768	768	768	776	788
8	791	811	835	827	808	803	803	791	719	815	803	791	799	798	803	791	788	768	760	752	755	768	776	795	790
9	780	798	808	807	807	830	834	807	799	784	777	776	725	753	791	791	769	752	753	756	758	776	784	792	784
10	790	791	799	805	815	806	807	799	797	792	784	807	795	795	793	792	779	767	771	774	779	778	784	786	791
11	786	797	800	799	803	799	795	795	764	776	808	800	799	798	797	787	783	768	772	776	776	781	786	791	789
12 Q	795	799	799	803	799	803	799	800	799	799	798	797	799	788	776	792	776	760	760	760	766	776	784	784	788
13	789	790	792	795	799	799	800	800	803	803	800	799	796	793	796	792	796	773	761	762	756	761	782	792	789
14	784	799	802	799	800	799	799	799	784	776	784	806	804	800	799	791	784	768	768	768	768	774	784	791	789
15	795	799	799	807	807	799	803	807	804	803	799	799	800	799	793	788	795	784	756	714	744	781	764	784	788
16	799	800	823	831	815	799	558	756	792	792	791	791	798	798	798	797	780	769	772	764	769	776	777	784	780
17	799	795	799	814	815	776	784	762	741	659	612	597	690	698	737	745	698	737	721	760	799	776	784	791	745
18	798	798	805	819	807	849	797	689	794	783	759	680	627	568	640	790	783	751	748	746	761	774	788	788	756
19	799	797	800	816	795	805	809	679	615	520	770	798	795	786	761	731	765	770	755	737	745	767	784	786	758
20 D	766	782	806	806	794	794	774	611	681	654	491	274	176	573	369	034	294	714	697	697	822	819	838	863	630
21 D	907	893	892	790	899	815	565	536	629	712	688	759	685	745	791	783	783	767	765	766	765	755	771	787	760
22	767	780	794	790	788	783	806	735	557	588	627	760	658	720	788	763	697	727	755	763	774	790	793	768	740
23	799	831	824	806	794	790	794	752	754	779	777	759	729	744	772	776	767	782	783	767	760	768	767	779	777
24 D	782	807	806	806	798	790	789	773	687	713	678	787	793	785	783	806	766	759	781	775	813	834	788	787	779
25 D	771	783	790	798	826	837	820	759	631	635	605	580	674	526	650	639	678	782	775	767	763	762	781	794	726
26	797	790	799	799	799	794	792	788	588	386	470	459	461	686	779	781	792	792	797	794	793	794	790	794	721
27	796	800	796	796	796	798	788	781	796	800	714	640	742	777	795	788	788	800	796	789	788	788	788	791	780
28	797	797	797	793	800	793	796	735	501	521	705	828	813	813	812	809	809	803	793	793	791	786	782	789	769
29 Q	794	795	794	803	826	834	826	812	807	811	799	795	803	805	808	803	803	799	791	780	784	782	782	787	801
30 Q	799	803	800	807	808	806	801	795	803	803	803	803	807	807	805	805	805	791	784	784	787	791	798	803	800
31																									
Mean	801	810	813	808	810	794	776	749	729	728	731	732	730	755	764	752	751	765	763	760	771	780	787	796	769

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 42 Meanook

D = 24° E + ...'

November 1948

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	53.1	53.1	53.1	53.1	53.1	53.0	54.3	54.1	50.4	50.3	50.8	56.8	55.7	58.5	62.0	60.7	58.2	54.2	49.0	44.6	48.5	47.4	47.6	46.9	52.9
2 D	53.3	51.6	55.8	58.4	49.9	27.5	26.4	55.4	53.5	79.3	91.3	76.5	82.7	72.9	67.8	52.1	50.9	47.3	45.7	43.9	49.1	51.4	51.4	49.5	56.0
3	44.2	47.6	52.6	52.0	54.9	55.1	56.3	53.3	53.9	55.3	64.7	61.6	61.0	59.2	60.7	61.6	56.8	56.3	51.0	42.3	41.5	44.2	48.7	51.0	53.6
4 Q	51.9	52.2	54.0	54.0	54.5	53.5	53.2	53.3	53.6	53.4	53.3	54.1	55.7	56.4	58.3	61.7	62.8	60.9	55.9	53.0	51.4	52.1	52.6	53.4	54.8
5 Q	53.0	53.2	53.3	53.1	53.3	53.3	52.3	53.6	57.4	62.6	55.1	56.7	58.0	60.4	61.5	62.6	63.6	60.2	54.6	52.4	50.9	50.9	50.9	51.5	55.6
6	52.3	52.5	52.2	53.5	54.4	53.5	52.1	51.7	52.5	52.9	53.6	54.0	55.3	55.4	56.4	58.7	59.7	59.2	56.9	54.0	51.2	49.2	48.2	48.7	53.7
7	50.2	49.3	49.7	51.6	51.7	51.7	53.1	55.4	50.8	53.6	55.5	57.5	56.2	55.4	61.8	62.0	62.3	60.7	58.8	55.1	51.7	50.8	49.2	47.6	54.2
8	45.0	46.4	48.3	49.4	54.5	54.4	54.4	53.2	46.4	58.1	57.7	59.0	54.7	55.4	58.5	61.6	60.4	60.7	57.1	55.9	52.0	49.8	49.8	46.7	53.7
9	49.9	51.8	51.9	52.8	52.4	54.9	60.7	52.7	52.8	53.8	56.7	53.3	54.8	53.4	59.3	62.7	60.4	62.0	53.8	53.7	51.6	51.9	51.4	47.6	54.4
10	51.1	51.0	50.9	52.5	51.6	51.9	52.0	52.0	53.4	53.9	55.7	54.6	55.4	56.5	59.2	61.2	60.1	58.9	54.9	53.4	52.5	52.3	52.5	50.1	54.1
11	48.1	51.5	51.4	53.0	53.3	53.3	54.3	54.3	51.9	52.9	54.0	55.8	55.4	56.3	57.3	59.4	60.0	58.2	53.4	52.5	52.3	50.7	51.7	51.8	53.9
12 Q	51.0	52.2	53.4	53.5	53.3	53.0	52.8	53.1	53.5	53.8	54.0	55.0	55.5	54.4	53.6	59.3	62.2	59.1	54.5	51.9	50.7	51.4	51.8	52.4	54.0
13	52.2	52.7	52.7	52.7	53.2	53.3	53.2	53.6	52.7	53.2	53.9	54.2	55.6	57.5	60.9	56.0	53.5	53.1	51.8	51.7	49.6	49.8	51.0	51.0	53.3
14	52.8	53.5	52.3	52.7	53.0	53.0	52.8	53.2	52.4	53.1	51.6	53.4	55.7	57.8	59.3	60.3	61.9	57.2	52.9	51.8	51.8	52.8	52.1	50.8	54.1
15	50.7	51.7	53.0	53.3	52.1	52.5	51.9	51.1	51.2	52.4	53.4	54.6	56.0	57.5	57.9	60.6	60.1	60.5	58.2	54.0	40.3	44.2	48.5	48.0	53.1
16	49.2	53.8	55.8	61.4	54.3	56.2	48.6	52.5	53.8	53.8	56.1	56.2	55.6	56.9	60.4	62.5	63.2	59.3	54.4	52.9	53.1	52.7	52.8	52.4	55.3
17	50.7	49.4	55.9	62.4	54.2	60.9	56.1	58.3	54.4	60.2	76.4	71.8	56.0	62.4	45.4	45.4	52.5	50.1	44.4	50.1	52.3	53.5	51.3	52.8	55.7
18	54.1	53.8	61.5	59.3	55.3	60.4	53.6	58.0	52.3	53.6	55.5	44.6	58.4	45.4	41.5	58.3	55.6	60.8	47.8	46.9	49.9	51.0	50.8	52.8	53.4
19	54.2	54.7	54.4	53.9	62.6	63.9	57.2	58.4	50.7	58.7	60.2	59.1	59.3	58.6	57.3	54.6	50.4	56.0	51.7	51.6	47.0	48.6	52.2	53.3	55.4
20 D	53.9	55.4	55.9	58.4	54.4	57.7	59.4	50.8	61.6	62.2	61.1	55.7	89.1	59.2	36.2	47.7	45.9	52.8	40.8	43.8	53.0	53.5	54.5	53.1	54.8
21 D	54.0	50.7	59.4	75.8	59.3	58.5	80.6	64.1	52.6	58.3	56.4	57.8	53.1	51.6	56.5	59.8	60.2	60.3	57.0	54.5	53.0	52.5	54.5	54.5	58.1
22	57.0	59.6	55.2	55.9	56.2	56.7	62.0	52.8	49.2	63.7	55.7	59.6	73.0	53.7	57.6	55.8	56.1	53.8	54.2	52.7	52.3	51.8	52.6	54.3	56.3
23	57.0	54.8	58.8	58.1	55.2	58.1	52.9	54.2	51.4	55.1	57.2	55.4	56.8	52.8	57.3	60.6	57.7	59.2	58.2	56.3	54.3	52.7	53.9	52.9	55.9
24 D	54.9	56.2	56.3	56.5	57.1	56.5	54.8	56.9	48.2	60.7	55.0	58.1	58.5	60.2	59.4	62.8	60.9	51.6	50.2	56.3	60.0	56.1	51.2	52.5	56.3
25 D	55.2	56.1	54.7	55.0	54.7	58.2	59.9	52.3	61.5	48.6	66.0	67.0	68.1	65.8	53.3	56.7	48.6	58.4	55.7	54.2	52.1	52.2	47.5	54.9	56.5
26	57.5	57.2	57.5	57.2	56.3	56.7	57.5	55.6	38.8	50.1	69.4	67.6	57.9	67.1	62.3	62.0	59.1	57.9	55.0	53.6	53.6	54.0	55.8	55.6	57.3
27	56.1	55.6	55.5	55.6	55.1	61.4	52.7	51.8	60.5	56.1	59.7	61.4	68.4	69.6	64.7	56.2	51.0	56.1	56.5	56.8	56.9	55.8	56.2	56.0	57.7
28	56.5	55.9	55.1	57.9	54.7	54.9	55.9	54.7	52.2	48.5	61.2	59.5	58.8	57.6	57.2	57.7	57.2	58.1	55.7	55.2	55.2	54.7	53.4	53.3	55.9
29 Q	53.8	53.4	53.0	52.7	51.9	51.6	57.4	55.4	57.3	56.0	56.9	57.7	56.6	57.9	58.2	58.9	59.9	57.8	55.9	54.5	53.9	53.8	53.9	52.9	55.5
30 Q	53.0	53.2	53.6	54.5	55.1	55.2	54.7	54.3	55.0	55.2	55.9	56.0	56.1	56.2	57.0	58.4	59.3	59.4	57.6	55.9	54.6	53.2	53.1	54.1	55.4
31																									
Mean	52.5	53.0	54.2	55.7	54.4	54.7	54.8	54.3	52.9	56.0	58.8	58.2	59.8	58.1	57.3	58.8	57.6	57.1	53.6	52.3	51.6	51.4	51.8	51.8	55.0

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

Table 43 Meanook

$z = 58,500 \gamma +$

November 1948

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	565	565	562	562	560	560	555	555	539	501	454	474	468	478	523	539	543	542	549	560	579	604	619	705	548	
2 D	696	684	657	619	501	463	738	619	625	425	628	781	590	506	530	549	511	587	608	603	620	629	619	609	600	
3	637	611	596	658	619	621	613	599	580	568	563	556	550	555	554	538	539	546	541	552	568	579	590	588	580	
4 Q	586	582	575	575	575	573	571	571	572	570	571	571	570	570	573	575	574	573	582	582	586	582	579	569	575	
5 Q	568	568	568	568	570	570	569	560	518	442	509	545	545	552	566	572	572	570	572	574	576	577	579	572	558	
6	571	571	572	574	576	576	574	566	567	563	566	566	564	563	566	570	572	572	574	572	565	565	566	568	569	
7	573	573	570	569	573	576	576	587	579	570	560	506	478	534	551	562	564	565	571	572	577	578	577	586	564	
8	592	609	664	625	585	583	585	569	453	566	561	548	572	565	570	566	583	572	572	576	583	588	583	585	577	
9	591	609	592	576	584	605	586	579	577	565	549	543	515	540	560	563	565	565	565	565	573	573	573	576	570	
10	571	573	584	596	586	595	588	577	570	562	543	562	562	565	565	564	565	561	569	570	568	570	569	565	571	
11	575	577	577	575	574	573	565	565	522	523	562	564	562	563	563	563	561	561	565	567	567	567	567	567	564	
12 Q	561	562	562	561	561	562	557	557	557	554	550	556	554	544	543	558	561	560	556	562	567	564	563	563	558	
13	562	561	561	562	562	561	558	557	557	557	557	558	557	547	545	533	517	526	545	555	563	568	572	566	554	
14	566	567	563	562	562	560	562	558	538	512	526	561	562	558	556	558	558	558	560	567	567	561	561	560	557	
15	562	562	562	562	563	563	574	574	582	579	568	567	560	558	556	558	558	553	557	557	561	568	585	616	567	
16	606	609	639	621	597	566	272	487	552	562	562	562	560	556	556	561	557	553	558	566	569	569	569	571	558	
17	571	608	601	603	601	553	553	536	513	420	340	461	464	431	512	499	499	526	561	596	630	598	577	574	534	
18	573	584	594	594	606	615	576	442	550	562	546	482	411	420	476	564	581	562	589	589	587	587	593	587	553	
19	582	583	587	617	610	595	593	442	350	318	537	568	570	562	534	527	550	553	565	589	592	587	586	586	549	
20 D	592	589	594	596	542	559	559	330	465	464	339	212	494	458	473	552	471	603	646	652	648	633	638	635	531	
21 D	653	684	540	573	613	602	309	406	514	559	555	581	548	558	576	592	584	581	587	592	592	584	587	594	565	
22	597	600	586	583	579	584	535	487	357	390	463	560	444	535	562	548	535	568	581	603	585	589	598	610	545	
23	641	626	611	616	607	580	600	555	558	570	572	551	515	507	515	549	567	572	573	580	578	586	584	593	575	
24 D	594	600	586	585	556	584	570	491	410	474	475	529	551	529	545	578	560	572	583	591	621	660	608	609	561	
25 D	587	579	579	594	605	599	573	553	363	400	358	411	449	429	362	410	464	544	556	569	578	580	578	578	512	
26	579	577	577	579	579	573	574	571	526	448	394	396	432	469	477	517	532	547	561	560	562	569	569	569	531	
27	569	566	566	568	569	579	551	488	533	559	489	365	436	475	495	505	515	545	566	570	573	572	573	572	533	
28	571	571	577	582	585	594	594	557	450	355	487	559	569	566	566	567	568	568	569	574	577	577	578	579	556	
29 Q	581	582	581	585	590	609	611	593	569	582	577	566	565	568	571	571	571	571	576	576	576	576	576	574	579	
30 Q	580	580	581	586	581	581	578	578	577	573	568	571	567	571	567	567	573	573	573	572	572	571	570	570	574	
31																										
Mean	588	590	585	588	579	577	561	537	521	510	518	528	526	528	537	549	549	562	571	577	582	584	583	587	559	

## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44 Meanook

November 1948

Day	Horizontal Intensity						Declination					Vertical Intensity										
	Maximum 12,000 $\gamma$ +			Minimum 12,000 $\gamma$ +			Maximum 24° E +			Minimum 24° E +		Range	Maximum 58,500 $\gamma$ +			Minimum 58,500 $\gamma$ +		Range				
	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	h.	m.	'	h.	m.	'	'	h.	m.	$\gamma$	h.	m.	$\gamma$	$\gamma$	
1	23	35	999	10	10	679	320	14	50	64.6	19	14	38.3	26.3	23	17	724	10	12	425	299	
2 D	01	02	1017	07	27	105	912	07	37	154.7	07	02	-28.8	183.5	06	35	905	04	50	258	647	
3	02	32	1024	19	09	720	304	10	17	72.9	19	36	38.9	34.0	03	17	703	02	25	512	191	
4 Q	11	01	795	18	52	747	48	16	08	64.8	07	02	50.7	14.1	00	03	598	13	17	560	38	
5 Q	14	50	799	09	42	650	149	09	17	67.2	21	35	50.3	16.9	22	32	583	09	26	373	210	
6	15	02	820	20	15	762	58	16	18	60.0	23	30	46.4	13.6	04	17	585	10	00	559	26	
7	14	23	824	11	50	628	196	15	00	66.1	22	39	45.4	20.7	23	57	595	11	50	409	186	
8	02	12	851	08	18	650	201	15	33	66.6	08	18	31.2	35.4	02	37	690	08	19	405	285	
9	05	53	869	12	48	657	212	06	21	71.5	23	30	44.4	27.1	05	30	639	12	50	474	165	
10	04	27	823	10	17	755	68	15	53	63.5	03	15	47.6	15.9	03	23	612	10	42	509	103	
11	10	08	827	08	49	728	99	17	20	62.3	00	07	46.2	16.1	01	55	588	08	53	473	115	
12 Q	05	45	805	18	20	756	49	16	07	63.4	00	02	49.7	13.7	21	03	602	14	07	533	69	
13	16	25	817	20	54	737	80	14	50	64.4	16	03	46.5	17.9	22	27	582	16	12	502	80	
14	11	43	814	09	10	728	86	16	46	63.9	00	07	48.7	15.2	01	20	572	09	12	470	102	
15	07	35	827	19	47	686	141	18	03	63.7	20	30	37.4	26.3	23	17	624	19	00	545	79	
16	03	04	858	06	27	459	399	03	32	67.4	06	51	26.0	41.4	02	37	650	06	37	220	430	
17	03	52	894	11	06	497	397	10	23	90.6	14	18	39.0	51.6	20	40	655	10	21	290	365	
18	05	35	892	13	24	502	390	05	20	70.8	14	03	20.6	50.2	06	04	643	12	53	320	323	
19	06	39	862	09	27	421	441	09	16	86.6	08	24	29.9	56.7	03	52	666	09	16	182	484	
20 D	04	20	899	15	45	-128	1027	12	37	170.9	11	17	-2.9	173.8	12	53	911	11	03	115	796	
21 D	02	55	1024	07	12	337	687	03	23	123.2	03	18	30.9	92.3	03	07	924	06	50	150	774	
22	06	11	835	08	35	399	436	09	50	80.6	08	40	29.8	50.8	23	43	626	08	37	211	415	
23	01	56	919	12	14	693	226	02	05	72.4	02	42	39.3	33.1	01	55	685	13	22	497	188	
24 D	20	58	868	10	15	621	247	15	50	73.7	08	20	35.7	38.0	21	10	709	07	54	346	363	
25 D	05	12	868	11	02	333	53.5	13	53	89.1	09	24	29.1	60.0	04	23	621	11	02	226	395	
26	07	06	821	11	48	142	679	10	10	105.5	09	07	04.3	101.2	13	46	615	10	35	283	332	
27	07	07	845	11	04	581	264	05	54	81.5	06	45	29.4	52.1	05	52	601	11	40	301	300	
28	10	57	857	08	36	409	448	10	35	79.3	09	50	19.8	59.5	06	10	605	19	37	231	374	
29 Q	04	40	865	06	09	734	131	06	24	66.3	04	04	32.5	33.8	06	21	661	03	59	453	208	
30 Q	15	01	814	18	15	782	32	17	23	60.4	07	45	52.2	08.2	03	48	590	12	37	563	27	
31																						
Mean			868			559	309			79.6			33.6	46.0			659			380	279	
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 1948

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	805	807	808	809	809	807	800	799	800	803	804	803	805	806	807	810	809	806	803	798	799	800	805	809	805
2	811	811	805	812	812	806	806	806	806	803	800	804	812	812	807	804	802	799	796	792	792	770	777	779	801
3 Q	792	800	795	788	791	796	767	786	798	784	794	806	806	802	802	802	797	792	786	788	791	791	792	796	793
4	802	803	805	806	808	807	806	799	793	797	779	802	813	811	808	802	799	782	782	777	771	775	790	794	796
5 Q	792	807	804	800	798	798	797	793	783	762	804	808	807	808	807	814	812	806	790	786	786	785	790	800	797
6 D	806	811	815	820	823	839	845	819	814	810	806	814	808	812	810	783	689	736	772	771	800	786	783	795	799
7	822	860	837	816	837	804	795	775	765	637	652	673	522	720	794	783	801	792	783	755	749	776	790	788	764
8	795	803	806	810	810	805	802	792	758	775	806	807	806	805	802	801	802	801	799	787	788	785	771	794	796
9	811	810	803	803	803	803	809	760	738	766	813	809	808	804	803	804	804	797	782	778	782	779	784	795	794
10	805	807	803	802	804	806	809	805	805	803	804	805	803	803	801	796	785	771	788	788	792	780	789	789	798
11	797	811	809	810	803	801	797	796	795	770	747	773	789	793	789	792	784	786	805	795	788	782	782	789	791
12 Q	800	805	803	802	804	805	799	799	799	800	799	798	797	803	805	806	807	803	799	789	785	787	789	795	799
13	804	806	810	812	812	813	806	802	807	808	809	809	809	805	803	802	795	788	794	792	796	791	826	831	805
14	845	845	841	870	862	847	832	778	642	348	593	479	581	747	813	816	814	771	774	769	785	782	787	785	750
15	798	802	798	798	802	805	791	781	759	759	774	794	791	785	733	777	809	799	800	781	784	787	786	783	786
16	791	813	814	812	802	808	802	792	778	749	739	787	798	798	779	724	739	713	748	772	779	780	785	777	778
17	798	826	820	800	805	796	795	791	791	794	795	798	798	799	801	802	798	790	783	774	774	775	777	783	794
18	788	788	790	790	791	791	791	789	783	722	765	800	788	785	742	782	802	794	792	783	779	781	783	788	783
19	797	791	789	790	775	795	795	786	789	770	687	741	803	796	805	789	788	807	793	788	780	775	778	778	783
20	783	789	789	787	794	794	798	791	791	801	787	712	750	763	800	793	793	794	790	786	782	784	786	786	784
21 D	786	796	802	792	798	793	795	697	532	279	206	659	790	794	615	520	658	679	764	795	763	783	775	790	694
22	793	789	787	787	789	791	786	752	560	521	801	796	755	733	797	805	805	797	795	778	778	775	781	775	764
23	789	797	797	799	796	796	797	793	788	792	783	796	803	799	792	797	803	792	780	778	775	774	778	791	791
24	794	797	798	779	736	864	859	829	822	769	778	788	789	789	789	786	793	790	790	786	779	773	783	786	794
25 D	794	803	812	819	823	826	826	840	774	784	758	858	788	773	695	667	608	694	766	770	760	727	782	794	773
26	829	811	831	829	804	819	792	777	775	772	777	779	785	786	792	790	790	786	769	747	758	762	762	767	787
27	783	788	793	790	796	793	785	765	748	726	707	617	794	806	806	804	801	803	765	767	776	773	776	786	773
28 Q	794	797	797	797	797	797	796	790	781	793	797	798	798	792	793	800	806	803	797	790	784	781	782	788	794
29	790	796	797	794	797	793	790	779	762	748	715	599	737	787	789	806	811	815	795	785	778	772	779	792	775
30 D	797	798	800	793	798	798	788	774	768	757	767	785	804	814	819	780	762	733	701	765	770	786	816	809	783
31 D	804	786	792	790	788	789	783	724	624	080	533	671	797	780	608	712	712	792	789	784	780	783	786	792	720
Mean	800	805	805	803	802	806	801	786	759	712	741	760	779	791	781	779	780	781	783	780	780	779	785	790	782

MEANOOK MAGNETIC OBSERVATORY 1947 - 1948

DECLINATION  
Mean values for periods of sixty minutes, Universal Time

Table 46 Meanook D = 24° E + ...' December 1948

Table with columns for Hour U.T. Day, 0 to 24, and Mean. Rows are grouped by quarter (Q) and day (D). Values range from 51.5 to 67.0.

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

Table 47 Meanook

$z = 58,500 \gamma +$

December 1948

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 Q	575	576	574	571	568	569	575	580	575	575	572	571	569	567	569	571	567	566	564	567	565	563	562	563	570
2	565	566	564	565	565	564	564	565	563	560	560	552	559	562	561	563	564	565	567	570	570	568	578	577	565
3 Q	579	575	576	579	578	567	515	561	587	573	539	559	565	562	563	563	568	567	573	572	570	570	569	568	567
4	564	563	562	563	562	562	562	560	533	529	538	550	557	560	561	561	562	561	566	572	573	573	581	586	561
5 Q	591	589	586	586	583	573	570	567	545	503	524	553	559	557	559	561	560	562	570	572	572	571	575	584	566
6 D	581	577	581	592	597	626	630	592	577	555	553	560	557	558	553	543	500	514	557	586	608	605	603	585	575
7	593	648	606	604	599	596	585	567	562	479	504	472	445	490	517	517	538	565	566	571	582	592	597	583	557
8	576	573	572	579	580	577	571	571	555	537	570	564	559	556	556	555	552	551	555	564	566	569	571	590	565
9	583	578	581	581	583	597	591	559	518	506	551	554	558	556	559	564	564	559	562	565	567	569	569	569	564
10	568	568	568	574	573	570	565	560	565	565	560	560	554	545	540	550	545	527	535	561	574	579	581	573	561
11	587	604	584	574	564	564	562	560	553	521	424	479	515	525	537	538	543	559	559	557	560	562	576	583	550
12 Q	564	562	557	556	561	569	575	575	564	556	559	546	551	548	551	554	554	554	554	555	551	551	550	554	557
13	551	551	553	548	551	551	552	561	559	550	550	547	545	544	543	543	540	524	541	548	572	595	621	660	558
14	665	667	632	590	571	591	598	570	547	350	495	453	429	400	495	528	539	527	557	569	556	555	562	566	542
15	565	559	553	560	566	557	552	537	510	484	496	527	533	527	482	483	524	530	545	551	549	557	562	565	536
16	570	578	597	605	584	575	550	536	528	521	498	510	521	486	436	446	441	471	512	549	556	562	569	576	532
17	567	579	570	567	554	537	541	540	537	538	542	543	539	541	538	540	541	541	542	544	541	543	542	544	546
18	545	543	543	547	544	540	538	534	531	434	460	522	510	491	444	470	517	527	544	539	532	534	536	533	519
19	529	528	534	534	534	532	540	531	520	487	448	457	500	496	500	494	491	524	527	527	527	526	526	527	514
20	522	522	522	521	521	521	519	518	516	511	495	378	387	419	476	487	496	499	513	513	513	514	522	522	497
21 D	517	516	517	519	523	518	513	482	273	265	365	506	515	518	415	286	381	483	538	548	537	547	539	535	473
22	525	521	521	520	516	512	516	501	508	307	509	513	483	459	490	509	512	512	519	519	519	520	520	519	502
23	521	517	517	518	513	514	509	508	483	472	487	490	495	503	508	512	513	508	508	508	512	517	518	535	508
24	534	532	538	527	493	472	493	500	514	496	503	504	493	495	504	501	496	500	503	507	506	511	511	510	506
25 D	505	508	512	520	522	532	532	541	496	518	524	491	481	467	386	364	400	408	439	494	522	551	560	550	493
26	549	519	524	537	529	538	524	510	507	490	495	494	495	497	497	500	498	495	503	521	517	514	507	505	511
27	498	498	503	510	534	531	522	493	448	428	395	385	455	482	484	487	490	490	493	495	492	492	491	491	483
28 Q	487	485	485	485	486	486	484	484	474	463	482	478	474	472	476	481	484	481	485	486	487	487	490	493	482
29	489	487	489	487	485	487	487	479	409	389	385	346	375	415	412	416	456	469	479	478	480	481	484	485	452
30 D	476	475	473	478	477	477	476	442	429	396	412	406	435	450	422	386	419	419	418	462	502	510	522	505	453
31 D	494	477	472	470	470	470	468	435	363	365	284	376	486	465	311	411	407	474	481	481	480	481	483	485	441
Mean	550	550	547	547	545	544	541	533	511	481	493	498	506	507	498	499	508	517	528	537	541	544	548	549	526



## DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48 Meanook

December 1948

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 12,000 $\gamma$ +		Minimum 12,000 $\gamma$ +		Range	Maximum 24° E +		Minimum 24° E +		Range	Maximum 58,500 $\gamma$ +		Minimum 58,500 $\gamma$ +		Range
	h. m.	$\gamma$	h. m.	$\gamma$		h. m.	'	h. m.	'		h. m.	$\gamma$	h. m.	$\gamma$	
1 Q	23 05	820	08 05	788	<u>32</u>	17 05	61.0	22 50	51.5	09.5	08 39	588	23 00	560	<u>28</u>
2	13 28	827	21 28	757	70	16 41	60.1	22 27	49.4	10.7	23 23	588	11 17	538	50
3 Q	09 39	845	06 02	668	177	07 44	67.8	06 00	29.4	38.4	08 33	614	06 05	415	199
4	12 37	820	20 37	764	56	09 31	61.2	10 45	50.3	10.9	23 52	590	09 01	503	87
5 Q	15 33	818	09 26	748	70	09 03	71.7	00 14	49.9	21.8	00 17	599	09 12	476	123
6 D	06 03	871	16 28	636	235	04 05	72.2	17 12	31.8	40.4	05 23	663	16 25	459	204
7	02 32	903	12 28	392	511	01 45	81.4	04 55	41.0	40.4	01 33	688	12 21	356	332
8	03 47	823	08 37	718	105	08 04	61.5	23 06	51.6	09.9	23 11	618	08 50	505	113
9	00 50	828	07 50	683	145	09 55	66.1	08 15	49.8	16.3	05 20	608	08 25	483	125
10	01 22	817	17 54	757	60	16 12	61.6	18 00	44.7	16.9	23 12	590	17 27	521	69
11	01 45	826	10 35	645	181	10 05	69.9	10 26	42.1	27.8	01 20	624	10 25	326	298
12 Q	01 42	815	21 05	782	33	07 35	61.4	22 50	53.1	<u>08.3</u>	07 41	589	11 45	541	48
13	23 27	848	18 04	763	85	14 47	62.0	23 27	40.5	21.5	23 41	675	14 17	530	145
14	04 15	979	09 40	132	847	09 56	94.0	04 10	26.9	67.1	01 20	<u>717</u>	09 28	256	461
15	05 24	818	14 16	673	145	04 50	62.5	14 46	47.2	15.3	00 00	584	09 50	412	172
16	01 20	834	10 09	686	148	07 26	65.6	15 23	39.0	26.6	03 26	625	14 39	395	230
17	02 01	913	20 37	765	148	02 04	74.4	02 10	30.1	44.3	02 06	617	02 10	480	137
18	10 53	826	09 30	656	170	16 04	63.2	14 40	42.7	20.5	04 07	553	09 56	358	195
19	12 17	822	10 45	643	179	05 27	72.3	04 53	35.8	36.5	06 54	544	10 48	417	127
20	14 56	829	11 29	656	173	12 54	69.7	11 19	45.8	23.9	23 02	529	11 26	305	224
21 D	13 02	829	10 47	006	823	10 53	<u>140.2</u>	15 20	05.0	135.2	10 17	667	09 55	158	509
22	10 14	832	09 03	236	596	08 55	106.4	09 21	<u>42.6</u>	<u>149.0</u>	08 48	690	09 02	<u>002</u>	<u>688</u>
23	08 50	818	08 33	760	58	09 02	65.1	08 45	50.3	14.8	23 13	548	09 01	440	108
24	05 44	<u>1011</u>	05 12	667	344	16 10	62.7	05 33	30.6	32.1	02 14	542	05 40	452	90
25 D	11 24	928	14 47	517	411	16 50	75.4	08 05	27.5	47.9	22 55	583	15 00	225	358
26	02 44	966	19 17	736	230	17 06	62.3	02 44	38.9	23.4	00 20	624	09 26	480	144
27	04 45	836	11 14	483	353	10 26	73.9	11 21	34.1	39.8	04 37	558	11 24	342	216
28 Q	16 25	814	08 18	771	43	08 32	56.9	08 07	47.4	09.5	23 35	498	09 07	447	51
29	17 23	824	11 26	490	334	09 23	64.5	11 41	40.0	24.5	05 43	497	11 25	274	223
30 D	22 10	857	18 38	649	208	11 34	59.4	18 26	26.2	33.2	22 21	559	09 28	330	229
31 D	12 54	862	09 25	<u>-157</u>	<u>1019</u>	10 12	99.4	09 53	04.8	94.6	09 15	634	09 52	073	561
Mean		854		596	258		71.8		36.0	35.8		600		389	211
No. days		31		31	31		31		31	31		31		31	31

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

Hour U. T. Month Season	0 to 23																							
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24
HORIZONTAL INTENSITY (gammas) (All Days) 1948																								
Table 49 Meanook																								1948
January	+15	+19	+20	+20	+20	+21	+20	+9	-7	-7	-5	-26	-46	-28	-16	+3	+7	0	-11	-9	-5	-3	+3	+9
February	+21	+24	+30	+34	+36	+28	+26	+9	-23	-44	-45	-39	-53	-34	-3	+6	+11	+8	+2	-5	-4	-1	+3	+11
March	+32	+38	+42	+47	+52	+29	+3	+1	-26	-50	-79	-77	-35	-11	+3	+1	-1	-7	-5	-6	-3	+8	+18	+29
April	+24	+32	+35	+34	+30	+19	-2	-10	-14	-18	-24	-7	-10	-5	+7	+5	-4	-13	-23	-23	-19	-15	-5	+5
May	+51	+59	+68	+58	+39	+24	-11	-23	-48	-52	-57	-65	-55	-25	-21	-4	0	-5	-10	-5	0	+11	+27	+53
June	+31	+42	+36	+24	+17	+13	-9	-2	-4	-10	-20	-6	-1	+5	+6	-5	-9	-15	-27	-29	-22	-12	-4	+12
July	+35	+31	+30	+24	+23	+20	+5	-6	-22	-23	-35	-47	-6	+10	+15	+11	+3	-10	-23	-23	-21	-12	+1	+22
August	+49	+66	+57	+56	+51	+32	-28	-53	-44	-67	-68	-51	-63	-30	-1	+4	0	-5	-10	-7	+7	+23	+40	+49
September	+42	+42	+38	+51	+39	+38	+26	-12	-47	-47	-40	-45	-51	-17	-10	-10	-12	-16	-21	-13	-6	+9	+30	+33
October	+54	+75	+70	+60	+47	+26	-23	-51	-58	-51	-69	-96	-105	-55	-32	-5	-5	+7	+11	+21	+36	+43	+49	+50
November	+32	+41	+44	+39	+41	+25	+7	-20	-40	-41	-38	-37	-39	-14	-5	-17	-18	-4	-6	-9	+2	+11	+18	+27
December	+18	+23	+23	+21	+20	+24	+19	+4	-23	-70	-41	-22	-3	+9	-1	-3	-2	-1	+1	-2	-2	-3	+3	+8
Year	+34	+41	+41	+39	+35	+25	+3	-13	-30	-40	-43	-43	-39	-16	-5	-1	-2	-5	-10	-9	-3	+5	+15	+26
Winter	+22	+27	+29	+28	+29	+24	+18	0	-23	-40	-32	-31	-35	-17	-6	-3	0	+1	-3	-6	-2	+1	+7	+14
Equinox	+38	+47	+46	+48	+42	+28	+1	-18	-36	-42	-53	-56	-50	-22	-8	-2	-5	-7	-9	-5	+2	+11	+23	+29
Summer	+42	+50	+48	+40	+33	+22	-11	-21	-30	-38	-45	-42	-31	-10	0	+2	-1	-9	-17	-16	-9	+2	+16	+34

DECLINATION (minutes) (All Days) 1948																								
Table 50 Meanook																								1948
January	-2.4	-2.1	-1.5	-0.2	+1.2	+0.3	+0.3	-0.2	-0.8	-0.4	+0.5	+2.0	+1.2	+1.5	+1.1	+2.8	+4.0	+3.9	+1.5	-0.7	-1.9	-3.1	-3.4	-2.8
February	-3.4	-2.6	-2.5	-1.3	-0.1	-0.7	+0.1	+0.6	+0.9	+0.5	+2.9	+3.8	+4.4	+2.3	+0.6	+3.0	+3.5	+2.0	+0.9	-0.4	-1.9	-3.3	-3.6	-3.9
March	-4.2	-3.8	-2.9	-1.2	-1.3	-1.9	-3.1	-0.9	+0.7	+1.3	0.0	+2.6	+2.1	+3.2	+4.4	+5.8	+6.2	+6.2	+3.1	+0.2	-2.5	-3.9	-4.8	-4.5
April	-7.2	-5.3	-3.1	-2.6	-2.0	-1.9	-1.2	+0.1	+1.2	+0.4	+1.4	+1.5	+2.2	+5.1	+7.0	+8.7	+9.0	+6.9	+2.9	0.0	-3.8	-5.7	-7.0	-7.4
May	-5.4	-4.7	-3.5	-2.4	-2.4	-4.0	-2.9	-3.3	-2.1	-2.3	+0.3	0.0	+4.9	+8.2	+10.5	+10.8	+11.0	+8.7	+2.8	-1.6	-4.9	-5.9	-6.2	-6.0
June	-6.2	-4.5	-2.9	-2.0	-2.2	-1.7	-1.9	-1.4	-2.0	-2.2	-1.2	+1.1	+4.3	+8.2	+10.6	+12.1	+10.8	+8.4	+3.1	-1.2	-5.1	-7.9	-8.7	-7.6
July	-5.4	-4.0	-3.2	-2.7	-2.9	-2.6	-2.0	-1.4	-0.3	-1.2	-1.6	+2.7	+6.7	+9.4	+11.4	+11.3	+9.8	+6.7	+1.2	-2.9	-6.0	-7.7	-8.1	-7.0
August	-4.0	-3.3	-1.9	-2.1	-2.8	-2.7	-4.5	-5.4	-4.0	-4.1	-0.9	+2.1	+6.0	+9.9	+12.7	+11.5	+10.7	+5.9	+1.3	-2.8	-5.3	-6.4	-5.8	-5.0
September	-4.4	-4.2	-3.6	-3.7	-4.3	-0.9	-1.6	-1.8	-0.2	+1.2	+4.8	+2.5	+2.7	+7.9	+9.2	+8.3	+7.4	+4.4	-0.9	-3.1	-4.6	-5.1	-5.0	-4.4
October	-2.1	-3.3	-1.6	-1.7	-0.9	-1.5	+0.3	-3.6	+2.0	+1.3	+3.1	+2.9	+1.2	+5.8	+3.0	+3.7	+4.2	+1.4	-0.8	-2.3	-3.0	-3.3	-2.3	-1.9
November	-2.5	-2.0	-0.8	+0.7	+0.6	+0.3	-0.2	-0.7	+2.1	+1.0	+3.8	+3.2	+4.8	+3.1	+2.3	+3.8	+2.6	+2.1	-1.4	-2.7	-3.4	-3.6	-3.2	-3.2
December	-1.5	-0.6	-0.8	-0.3	+0.8	+0.2	+0.4	+1.4	+1.5	-0.3	+1.6	+3.0	+2.4	+1.7	+1.2	-1.3	+0.5	0.0	-1.3	-1.1	-1.1	-1.6	-2.2	-2.0
Year	-4.1	-3.4	-2.4	-1.6	-1.5	-1.5	-1.4	-1.4	-0.4	-0.4	+1.2	+2.3	+3.6	+5.5	+6.2	+6.7	+6.6	+4.7	+1.0	-1.6	-3.6	-4.8	-5.0	-4.6
Winter	-2.5	-1.8	-1.4	-0.3	+0.3	-0.1	+0.1	+0.3	-0.1	+0.2	+2.2	+3.0	+3.2	+2.2	+1.3	+2.1	+2.6	+2.0	-0.1	-1.3	-2.1	-2.9	-3.1	-3.0
Equinox	-4.5	-4.2	-2.8	-2.3	-2.1	-1.6	-1.4	-1.6	+0.9	+1.0	+2.3	+2.4	+2.0	+5.5	+5.9	+6.6	+6.7	+4.7	+1.1	-1.3	-3.5	-4.5	-4.8	-4.5
Summer	-5.2	-4.1	-2.9	-2.3	-2.6	-2.8	-2.8	-2.8	-2.1	-2.4	-0.8	+1.5	+5.5	+8.9	+11.3	+11.4	+10.6	+7.4	+2.1	-2.1	-5.3	-7.0	-7.2	-6.4

VERTICAL INTENSITY (gammas) (All Days) 1948																								
Table 51 Meanook																								1948
January	+19	+24	+24	+23	+23	+26	+17	-3	-23	-30	-26	-36	-53	-39	-26	-11	-6	-2	+10	+15	+15	+18	+19	+20
February	+22	+26	+28	+28	+27	+25	+21	-11	-20	-36	-44	-35	-32	-35	-27	-18	-7	0	+6	+8	+12	+14	+16	+20
March	+26	+25	+23	+26	+14	+4	-3	+1	-18	-29	-38	-30	-24	-16	-20	-19	-11	-7	+4	+10	+15	+19	+20	+24
April	+26	+30	+27	+16	+14	+17	-7	-16	-20	-30	-38	-21	-9	-11	-9	-8	-5	-2	+2	+4	+8	+11	+16	+21
May	+37	+35	+24	+19	+6	0	-8	-18	-32	-33	-30	-22	-32	-23	-18	-20	-8	-7	-5	+3	+14	+24	+37	+47
June	+32	+34	+30	+20	+14	+4	-2	-3	-6	-13	-27	-16	-18	-18	-15	-18	-16	-13	-9	-6	+2	+11	+18	+25
July	+40	+36	+32	+28	+23	+19	-6	-14	-34	-29	-28	-39	-23	-17	-13	-12	-10	-10	-6	-2	+2	+11	+16	+28
August	+29	+36	+31	+23	+13	-2	-24	-5	-12	-28	-35	-31	-20	-34	-23	-12	-8	-5	+2	+13	+19	+20	+22	+27
September	+30	+33	+32	+21	+14	+7	+3	-13	-38	-37	-24	-22	-40	-29	-23	-18	-6	+1	+9	+13	+18	+23	+29	+29
October	+12	+22	+31	+24	+1	-15	-24	-31	-5	-1	-20	-34	-54	-36	-40	-21	-6	+9	+25	+33	+36	+36	+33	+18
November	+29	+31	+26	+29	+20	+18	+2	-22	-38	-49	-41	-31	-33	-31	-22	-10	+3	+12	+18	+23	+25	+24	+28	+28
December	+24	+24	+21	+21	+19	+18	+15	+7	-15	-45	-33	-28	-20	-19	-28	-27	-18	-9	+2	+11	+15	+18	+22	+23
Year	+27	+29	+27	+23	+16	+10	-1	-11	-22	-30	-32	-29	-30	-26	-22	-16	-9	-4	+4	+10	+15	+19	+23	+26
Winter	+24	+26	+25	+25	+22	+22	+14	-7	-24	-40	-36	-32	-34	-31	-26	-16	-10	-2	+7	+13	+16	+19	+20	+23
Equinox	+24	+25	+28	+22	+11	+3	-6	-15	-20	-24	-30	-27	-32	-23	-23	-16	-7	0	+10	+15	+19	+22	+25	+23
Summer	+34	+35	+29	+22	+14	+5	-10	-10	-21	-26	-30	-27	-23	-23	-17	-16	-10	-9	-5	+2	+9	+16	+23	+32

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

Hour Month Season	U. T. 0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24
<b>HORIZONTAL INTENSITY (gammas) (Quiet Days)</b>																								
Table 52 Meanook <span style="float: right;">1948</span>																								
January	+2	+5	+5	+4	+6	+6	+6	+5	+3	+1	+2	-2	+3	+8	+6	+7	+5	-3	-15	-17	-16	-13	-6	0
February	+1	-2	+3	+3	+3	+3	+4	+6	+3	+1	+3	+3	+2	+7	+7	+8	+3	-2	-9	-13	-11	-10	-9	-4
March	+6	+8	+8	+11	+9	+8	+8	+8	+4	+4	+6	+8	+9	+5	+14	+16	+4	-11	-28	-34	-28	-18	-12	-6
April	-5	+3	+4	+8	+4	+5	+8	+9	+10	+13	+14	+11	+7	+9	+19	+16	+1	-15	-23	-30	-25	-23	-15	-5
May	+15	+23	+18	+12	+7	+7	+9	+10	+12	+8	+9	-5	-7	-13	-11	-5	-9	-18	-27	-26	-18	-7	+3	+13
June	+3	+7	+5	+3	+6	+9	+10	+9	+11	+9	+5	+11	+18	+17	+13	+8	-1	-12	-29	-30	-33	-24	-15	-3
July	+17	+12	+9	+10	+10	+8	-13	+3	+9	+6	+4	-4	+5	+12	+15	+6	-1	-15	-28	-29	-27	-18	-8	+14
August	+6	+5	+6	+6	+8	+8	+9	+9	+8	-1	+11	+14	+16	+20	+18	+11	-9	-27	-42	-36	-28	-15	-2	+1
September	+5	+2	+5	+10	+12	+13	+15	+9	+9	-28	-3	+14	+13	+10	+12	+10	0	-12	-18	-24	-18	-6	0	+1
October	-5	0	+5	+13	+11	+9	+8	+7	+5	-12	+4	+9	+7	+8	+7	+4	-5	-13	-23	-17	-14	-7	-2	-1
November	+2	+6	+5	+10	+13	+16	+11	+6	-3	-6	+5	+9	+8	+4	+6	-3	-14	-20	-23	-19	-12	-6	-2	-2
December	-1	+6	+4	+2	+2	+3	-6	-4	-5	-9	+2	+5	+5	+5	+5	+9	+9	+4	-3	-7	-8	-9	-6	0
Year	+4	+6	+6	+8	+8	+8	+6	+6	+2	+1	+7	+6	+7	+8	+9	+7	-2	-12	-23	-24	-20	-14	-6	+1
Winter	+1	+2	+4	+5	+6	+7	+4	+3	-1	-3	+3	+3	+5	+7	+6	+8	+3	-4	-12	-15	-14	-11	-7	-1
Equinox	0	+3	+6	+10	+9	+9	+10	+8	-2	0	+10	+10	+8	+8	+12	+9	-3	-14	-24	-26	-21	-14	-7	-3
Summer	+10	+12	+9	+8	+8	+8	+4	+8	+10	+6	+7	+4	+8	+9	+9	+5	-5	-18	-32	-30	-26	-16	-5	+6
<b>DECLINATION (minutes) (Quiet Days)</b>																								
Table 53 Meanook <span style="float: right;">1948</span>																								
January	-1.9	-1.8	-1.6	-0.9	-0.3	-0.3	-0.4	-0.4	-1.8	-0.7	+0.3	-0.1	-0.1	+0.4	+0.8	+3.0	+4.4	+4.6	+2.8	+1.3	-0.1	-2.0	-3.0	-3.0
February	-2.4	-2.8	-2.5	-1.8	-0.8	-0.8	-0.4	-0.5	0.0	+0.2	+1.1	+1.8	+0.5	+0.8	+1.2	+2.2	+4.0	+4.2	+2.3	+0.9	-0.4	-2.1	-2.1	-2.3
March	-3.0	-2.8	-1.4	-1.0	-1.7	-1.5	-1.1	-1.2	-1.6	-1.4	-0.8	-1.3	-1.4	-0.4	+3.5	+8.1	+9.7	+9.5	+6.5	+1.4	-2.8	-5.2	-5.8	-5.1
April	-4.4	-3.9	-2.7	-2.1	-1.2	-1.8	-1.8	-1.5	-0.5	-0.6	-1.0	-1.1	-0.2	+3.4	+6.1	+8.7	+9.1	+8.4	+4.2	+1.8	-2.1	-4.5	-5.8	-6.2
May	-3.3	-2.5	-2.3	-2.2	-2.0	-1.9	-1.5	-1.8	-1.4	-1.1	+0.6	-0.4	+3.5	+6.0	+9.0	+10.0	+9.5	+6.7	+2.3	-2.7	-6.2	-6.4	-5.8	-6.1
June	-5.2	-3.9	-2.5	-2.5	-2.1	-1.5	-1.3	-0.8	-0.8	-1.0	-1.3	+0.5	+3.1	+5.2	+7.7	+8.8	+9.3	+8.2	+3.4	+0.3	-4.0	-6.1	-6.8	-6.7
July	-4.3	-3.3	-1.8	-1.3	-1.7	-2.3	-3.0	-0.1	-0.2	-1.1	-0.4	+1.3	+6.1	+7.4	+8.2	+8.6	+8.2	+6.0	+1.8	-1.6	-5.6	-6.7	-7.4	-6.4
August	-3.6	-2.3	-1.5	-1.7	-2.4	-2.4	-2.2	-2.1	-1.6	-1.1	-0.2	+0.4	+3.6	+7.1	+9.5	+12.2	+12.4	+9.1	+2.5	-3.8	-7.8	-9.4	-8.5	-6.2
September	-2.6	-2.9	-3.0	-2.8	-2.2	-1.4	-1.2	-0.5	-1.4	-1.7	+1.3	+0.9	+1.4	+4.4	+6.2	+7.1	+7.2	+5.5	+0.8	-1.0	-2.8	-3.7	-4.2	-3.3
October	-3.1	-2.4	-1.9	-2.5	0.0	-1.8	-1.9	-1.6	-1.0	+1.0	+1.2	+1.5	+1.4	+2.4	+4.3	+6.7	+7.3	+4.5	-0.5	-2.3	-3.5	-3.2	-2.6	-2.2
November	-2.5	-2.2	-1.6	-1.5	-1.4	-1.7	-1.0	-1.1	+0.3	+1.7	0.0	+0.8	+1.3	+2.0	+2.7	+5.1	+6.5	+4.4	+0.6	-1.5	-2.8	-2.8	-2.6	-2.2
December	-1.7	-0.8	-0.4	-0.1	-0.2	-0.7	-1.5	+2.0	+1.8	+0.9	+1.1	+1.2	+0.4	+0.2	+0.3	+1.1	+2.2	+1.7	+1.2	+0.1	-1.2	-2.3	-2.8	-2.5
Year	-3.2	-2.6	-1.9	-1.7	-1.3	-1.5	-1.4	-0.8	-0.7	-0.4	+0.2	+0.5	+1.6	+3.2	+5.0	+6.8	+7.5	+6.1	+2.3	-0.6	-3.3	-4.5	-4.8	-4.4
Winter	-2.1	-1.9	-1.5	-1.1	-0.7	-0.9	-0.8	0.0	+0.1	+0.5	+0.6	+0.9	+0.5	+0.8	+1.3	+2.8	+4.3	+3.7	+1.7	+0.2	-1.1	-2.3	-2.6	-2.5
Equinox	-3.3	-3.0	-2.2	-2.1	-1.3	-1.6	-1.5	-1.2	-1.1	-0.7	+0.2	0.0	+0.3	+2.4	+5.0	+7.6	+8.3	+7.0	+2.8	0.0	-2.8	-4.2	-4.6	-4.2
Summer	-4.2	-3.0	-2.0	-1.9	-2.0	-2.0	-2.0	-1.2	-1.0	-1.1	-0.3	+0.5	+4.1	+6.4	+8.6	+9.9	+9.8	+7.5	+2.5	-2.0	-5.9	-7.1	-7.1	-6.4
<b>VERTICAL INTENSITY (gammas) (Quiet Days)</b>																								
Table 54 Meanook <span style="float: right;">1948</span>																								
January	+8	+6	+6	+7	+7	+13	+10	+5	-7	-12	-10	-17	-17	-8	-2	-1	-1	-1	+1	+4	+3	+2	+4	+4
February	+11	+7	+13	+13	+9	+9	+7	+1	-11	-7	-13	-11	-10	-11	-6	-2	0	0	+7	0	-5	-6	-2	+4
March	+12	+11	+12	+10	+8	+6	+4	+3	-11	-13	-13	-15	-14	-11	0	0	-1	-2	0	-3	0	+3	+7	+7
April	+7	+7	+5	+6	+4	+3	0	-1	-5	-9	-7	-4	-11	-13	-7	-3	-3	-4	+1	-2	+4	+5	+8	+13
May	+33	+21	+13	+12	+11	+9	+7	+5	+2	-2	-9	-25	-22	-25	-25	-17	-15	-13	-10	-7	-3	+9	+21	+33
June	+9	+7	+3	0	+2	+4	+7	+2	-1	+1	-4	-1	+1	+3	0	-2	-8	-10	-10	-9	-8	0	+6	+11
July	+32	+27	+23	+17	+14	+12	-28	-12	-11	-13	-9	-16	-11	-7	+1	-1	-5	-6	-7	-5	-4	-3	0	+10
August	+15	+12	+11	+9	+2	-1	-3	-3	-5	-18	-19	-7	-9	-8	+6	+8	-2	-2	+4	+4	+9	+13	+14	+17
September	+17	+13	+11	+10	+8	-6	+1	-14	-55	-26	-15	-7	-9	-8	+6	+8	-2	-2	+4	+4	+9	+13	+14	+17
October	+8	+5	+6	+8	+13	+7	+3	+1	-1	-19	-16	-9	-10	-6	0	0	0	0	-3	-3	-1	+5	+5	+7
November	+6	+6	+5	+6	+7	+10	+8	+3	-10	-25	-13	-7	-9	-8	-5	0	+1	+1	+3	+4	+7	+5	+5	+1
December	+11	+9	+7	+7	+7	+4	-5	+5	+1	-14	-13	-7	-5	-7	-5	-2	-2	-2	+1	+2	+1	0	-2	+4
Year	+14	+11	+10	+9	+8	+6	+1	0	-10	-13	-12	-10	-10	-8	-4	-2	-3	-4	-2	-1	0	+3	+6	+10
Winter	+9	+7	+8	+8	+8	+9	+5	+4	-7	-14	-12	-10	-10	-8	-5	-1	0	0	+3	+2	+1	0	+1	+3
Equinox	+11	+9	+9	+8	+8	+2	+2	-3	-18	-17	-13	-9	-11	-10	0	+1	-2	-2	0	0	+3	+6	+8	+11
Summer	+22	+17	+12	+10	+7	+6	-4	-2	-4	-8	-10	-12	-8	-7	-6	-6	-8	-9	-8	-6	-3	+4	+10	+16

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		1948																							
January	+47	+61	+54	+54	+54	+63	+66	+29	+11	+13	-4	-117	-166	-119	-111	-28	-6	-14	-26	+3	+29	+31	+39	+33	
February	+93	+75	+79	+83	+124	+89	+79	+15	-73	-166	-158	-175	-245	-133	-19	0	+32	+37	+39	+26	+35	+48	+46	+67	
March	+138	+171	+185	+198	+215	+96	-68	-64	-163	-210	-386	-414	-183	-61	-12	-22	-40	-12	+61	+76	+87	+119	+137	+153	
April	+95	+115	+131	+118	+64	+21	-53	-89	-77	-69	-48	-39	-82	-73	-13	+11	+7	-8	-20	-11	-6	0	+14	+27	
May	+128	+158	+213	+176	+102	+43	-114	-115	-200	-178	-202	-235	-140	-99	-90	+23	+40	+55	+57	+57	+60	+52	+70	+139	
June	+89	+138	+123	+93	+18	+39	-30	+3	-24	-66	-123	-62	-40	-1	-8	-52	-33	-28	-29	-40	-14	-10	+21	+37	
July	+67	+64	+82	+54	+51	+52	+8	-32	-59	-90	-148	-156	-30	+13	+7	+7	+5	+9	-1	+4	-7	+2	+28	+70	
August	+166	+222	+158	+146	+113	+35	-222	-242	-112	-105	-147	-112	-148	-124	-70	-71	-31	-12	+20	+38	+63	+115	+157	+162	
September	+113	+137	+109	+176	+106	+80	+42	-86	-129	-150	-179	-189	-231	-132	-34	-3	+23	+33	+24	+37	+36	+60	+65	+96	
October	+182	+283	+249	+174	+101	+16	-25	-208	-311	-214	-229	-272	-199	-100	-80	+11	-16	+43	+57	+90	+128	+100	+105	+116	
November	+112	+125	+119	+92	+125	+33	-20	-118	-88	-39	-108	-119	-127	-41	-61	-145	-111	+16	+27	+25	+62	+71	+83	+90	
December	+44	+45	+50	+49	+52	+55	+54	+17	-51	-212	-140	+4	+44	+41	-44	-61	-68	-27	+5	+23	+21	+19	+35	+42	
Year	+106	+133	+129	+118	+94	+52	-24	-74	-106	-124	-156	-157	-129	-69	-45	-28	-16	+8	+18	+27	+41	+51	+67	+86	
Winter	+74	+76	+76	+70	+89	+60	+44	-14	-50	-101	-102	-102	-124	-63	-59	-59	-38	+3	+11	+19	+37	+42	+51	+58	
Equinox	+132	+177	+168	+166	+122	+53	-26	-112	-170	-161	-210	-228	-174	-92	-35	-1	-6	+14	+30	+48	+61	+70	+80	+98	
Summer	+112	+146	+144	+117	+71	+42	-90	-96	-99	-110	-155	-141	-90	-53	-40	-23	-5	+6	+12	+15	+26	+40	+69	+102	

DECLINATION (minutes) (Disturbed Days)

Table 56 Meanook		1948																							
January	-3.4	-2.3	-0.7	+1.0	+3.2	-0.5	+0.6	-1.3	-1.3	-1.9	-1.1	+3.5	+5.2	+7.1	+2.2	+4.3	+3.6	+2.8	-0.9	-5.8	-3.8	-3.7	-4.1	-2.7	
February	-6.3	-4.8	-3.0	-3.0	-2.2	-1.7	-1.7	-1.4	+3.4	-4.2	+9.9	+10.8	+17.9	+6.1	-4.0	+4.1	+3.7	+0.7	-0.7	-3.7	-4.3	-4.2	-4.6	-6.3	
March	-5.3	-5.0	-3.0	+1.8	-3.6	-5.8	-20.7	-4.5	+1.3	+0.3	-6.7	+8.3	+12.1	+14.8	+9.0	+6.7	+2.4	+6.5	-0.1	-1.1	-2.1	-1.6	-3.0	-1.0	
April	-8.3	-6.6	-2.1	-1.9	-4.6	-2.2	-2.0	+1.4	+1.2	+1.9	+1.7	+3.6	+2.7	+8.2	+7.8	+9.0	+9.8	+8.8	+0.2	-0.2	-6.4	-7.6	-7.7	-6.7	
May	-5.9	-5.1	-4.3	-4.0	-8.2	-12.4	-7.7	-9.1	-8.2	-10.2	+0.7	-1.1	+9.7	+13.8	+15.0	+13.2	+15.0	+11.7	+6.8	+1.3	-2.3	-3.2	-4.6	-0.5	
June	-8.2	-5.3	-3.0	-2.2	-5.9	-4.0	-6.6	-4.2	-4.3	-3.7	-1.7	+2.8	+6.5	+12.2	+13.3	+14.7	+10.1	+9.9	+5.8	+2.4	-3.1	-8.1	-9.0	-8.7	
July	-8.1	-5.3	-5.1	-3.5	-2.9	-3.2	+1.0	+0.4	+3.5	-2.5	-0.6	+7.2	+10.2	+10.3	+11.2	+9.3	+7.0	+3.6	-3.6	-3.2	-4.9	-6.8	-7.7	-7.2	
August	-6.0	-6.7	-4.5	-5.6	-7.3	-15.9	-23.3	-21.7	-15.5	-6.4	+3.2	+9.7	+12.8	+18.3	+18.4	+10.7	+16.4	+8.9	+7.1	+1.8	+2.3	+3.2	+2.7	-2.2	
September	-5.6	-3.4	-3.6	-7.4	-6.6	-2.1	-1.2	-5.2	-1.7	-1.5	+20.6	+1.7	-1.3	+14.6	+13.5	+5.4	+3.5	+2.1	-3.1	-4.2	-2.5	-4.6	-4.3	-3.2	
October	+1.7	-8.9	-6.0	-5.7	-3.4	+0.2	-4.3	-10.6	+10.4	-3.3	+6.6	-1.8	+5.0	+8.0	+6.8	+3.9	+3.0	+1.3	+1.2	+0.7	-1.0	-3.6	-1.6	+1.6	
November	-2.1	-2.3	+0.1	+4.5	-1.3	-4.7	-0.1	-0.4	-0.9	+5.5	+9.6	+6.7	+14.0	+5.6	-1.7	-0.5	-3.0	-2.3	-6.5	-5.8	-2.9	-3.2	-4.5	-3.4	
December	-0.4	-0.2	+0.2	+1.7	+1.7	+0.2	+1.5	+3.3	+1.5	-1.7	+1.9	+8.6	+5.2	+3.7	+5.5	-8.4	-5.0	-6.9	-7.1	-2.0	+0.2	-0.6	-2.1	-1.0	
Year	-4.8	-4.7	-2.9	-2.0	-3.4	-4.3	-5.4	-4.4	-0.9	-2.3	+3.7	+5.0	+8.3	+10.2	+8.1	+6.0	+5.5	+3.9	-0.1	-1.6	-2.6	-3.7	-4.2	-3.4	
Winter	-3.0	-2.4	-0.8	+1.0	+0.4	-1.7	+0.1	0.0	+0.7	-0.6	+5.1	+7.4	+10.6	+5.6	+0.5	-0.1	-0.2	-1.4	-3.8	-4.3	-2.7	-2.9	-3.8	-3.4	
Equinox	-4.4	-6.0	-3.7	-3.3	-4.6	-2.5	-7.0	-4.7	+2.8	-0.6	+5.6	+3.0	+4.6	+11.4	+9.3	+6.2	+4.7	+4.7	-0.4	-1.2	-3.0	-4.4	-4.2	-2.3	
Summer	-7.0	-5.6	-4.2	-3.8	-6.1	-8.9	-9.2	-8.6	-6.1	-5.7	+0.4	+4.6	+9.8	+13.6	+14.5	+12.0	+12.1	+8.5	+4.0	+0.6	-2.0	-3.7	-4.6	-4.6	

VERTICAL INTENSITY (gammas) (Disturbed Days)

Table 57 Meanook		1948																							
January	+31	+45	+38	+38	+40	+47	+20	-32	-46	-27	-32	-74	-111	-64	-38	-22	-5	-1	+20	+37	+29	+36	+39	+34	
February	+43	+51	+51	+48	+57	+52	+41	-71	-29	-80	-82	-57	-26	-67	-48	-46	-4	+8	+17	+16	+25	+31	+30	+42	
March	+53	+69	+47	+52	-33	-47	-42	+24	-35	0	-76	-1	-18	+5	-76	-60	-41	-36	+4	+23	+34	+45	+48	+59	
April	+43	+3	+56	+1	-48	+1	-29	-65	-22	-33	-1	+8	+38	-6	-18	-9	-4	-3	+2	+12	+20	+17	+17	+23	
May	+44	+49	-3	-16	-15	-47	-81	-37	-11	+4	-12	+34	-27	-30	-9	-31	+1	-14	-9	-2	+26	+40	+63	+79	
June	+72	+70	+66	+31	0	+14	+2	+16	+11	-13	-92	-29	-51	-34	-31	-67	-44	-24	-10	-2	+18	+25	+33	+35	
July	+54	+50	+48	+43	+24	+35	-20	-52	-71	-68	-29	-37	-14	-22	-28	-25	-18	-11	-4	+7	+16	+33	+37	+55	
August	+31	+60	+29	-7	-39	-65	-58	+15	+31	+60	+33	-25	+1	-4	-21	-27	-29	-19	-7	+20	+14	+3	-4	+4	
September	+61	+72	+68	+69	+3	-4	-34	-42	-74	-86	-15	-26	-96	-94	-51	-35	-8	+9	+29	+39	+45	+59	+54	+59	
October	-89	-35	+36	-22	-138	-96	-42	-9	+50	+63	+66	-39	-39	-42	-55	-25	-7	+23	+67	+74	+67	+49	+44	+14	
November	+71	+73	+37	+40	+10	+8	-4	-74	-78	-89	-83	-51	-27	-58	-57	-18	-36	+24	+42	+48	+58	+63	+52	+51	
December	+28	+24	+24	+29	+31	+38	+37	+11	-59	-63	-59	-19	+8	+5	-70	-89	-66	-27	0	+27	+43	+52	+54	+45	
Year	+37	+44	+41	+26	-9	-5	-18	-26	-28	-28	-32	-20	-30	-34	-42	-38	-22	-6	+13	+25	+33	+38	+39	+42	
Winter	+43	+48	+37	+39	+34	+36	+23	-42	-53	-65	-66	-50	-39	-46	-53	-44	-28	+1	+20	+32	+39	+46	+44	+43	
Equinox	+17	+27	+52	+25	-54	-36	-37	-21	-20	-14	-6	+5	-29	-34	-50	-32	-15	-2	+26	+37	+42	+42	+41	+39	
Summer	+50	+57	+35	+13	-8	-16	-39	-14	-10	-4	-25	-15	-23	-22	-22	-38	-22	-17	-8	+6	+18	+25	+32	+43	