

Publikasjoner fra
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK
Nr. 15

THE AURORAL OBSERVATORY AT TROMSØ

($\varphi = 69^{\circ} 39'.8$ N, $\lambda = 18^{\circ} 56'.9$ E. Gr.)

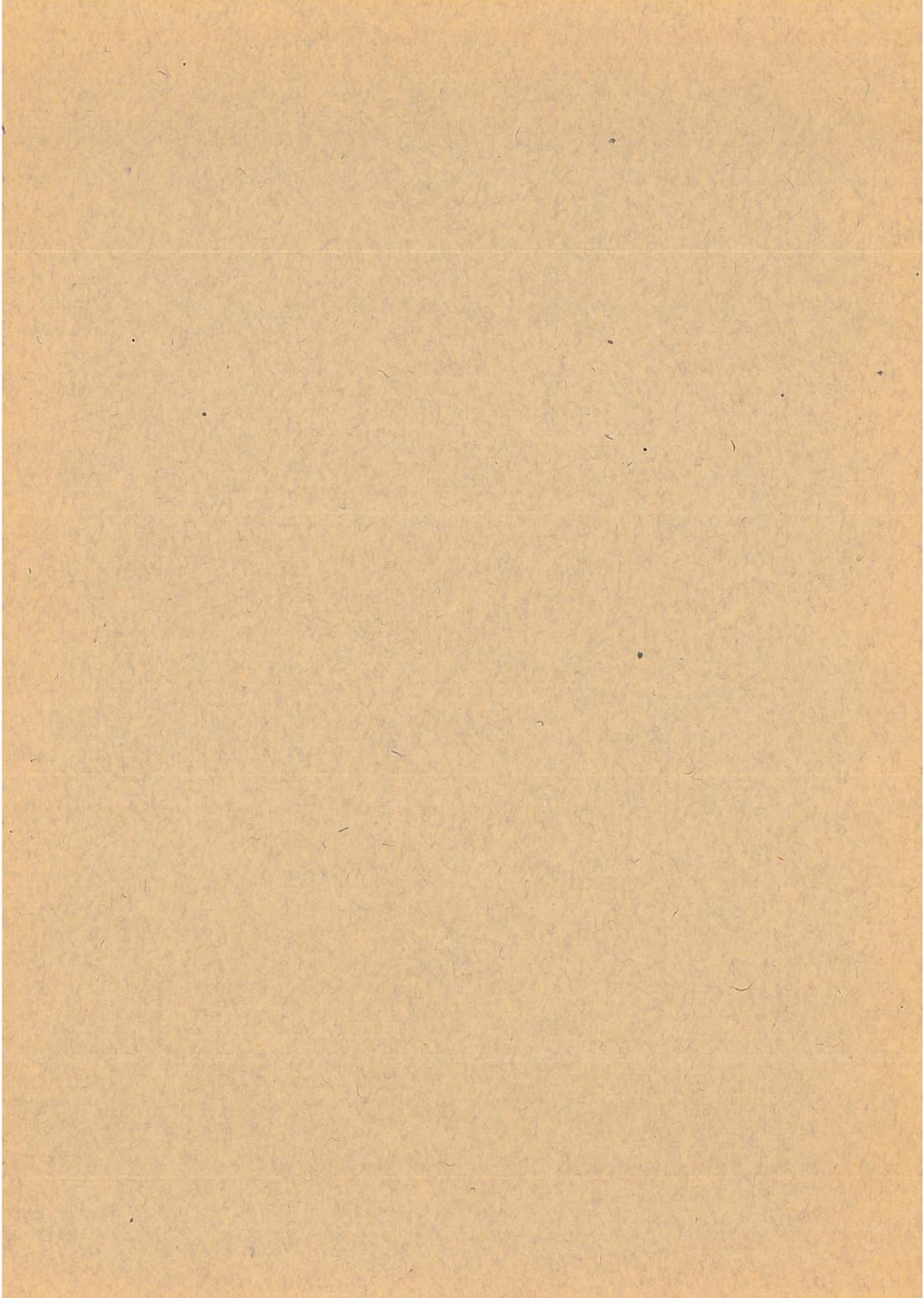
RESULTS OF MAGNETIC OBSERVATIONS
FOR THE YEAR 1937

BY

LEIV HARANG and E. TØNSBERG

1938

A.S JOHN GRIEGS BOKTRYKKERI, BERGEN



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GENERAL REMARKS

The instrumental equipment used for the magnetic measurements is the same as that previously employed, a description of which is given in No. 1 of the present series of publication.

The observations were taken by E. TØNSBERG. The reading of the hourly values and the calculation work have been performed by Miss ANNA PEDERSEN.

SCALE VALUES.

The following scale-values have been determined:

D-curves: 1'.45 or4.79 γ per mm
H-curves: 5.55 γ and 5.10 γ per mm
V-curves: 6.80 γ per mm

BASE-LINE VALUES.

The absolute measurements of Declination and Horizontal Intensity result in the table given below of observed and adopted base-line values. The Vertical Intensity base-line value — 50 220 γ — from the preceding years is still employed, as we are trusting more in the stability of the V-variometer than in the accuracy of the Inclination measurements. The mean Inclination value during the year is $77^{\circ} 16'.5$.

The temperature coefficient for the H-variometer is 8.0 γ per degree Celsius and for the V-variometer — 1.3 γ per degree Celsius.

OBSERVED AND ADOPTED BASE-LINE VALUES FOR D AND H .

Date	D observed	D adopted	H observed	H adopted
I. 19	2° 55'8 W.	2° 56'0 W.	11 413 γ	11 410 γ
II. 8	55.9	0	09	10
	26	56.0	11	10
III. 8	56.1	.0	08	10
	21	55.7	14	10
IV. 17	56.1	.0	11	10
VII. 6	56.1	.0	08	10
	12	46.0	11	10
	13	45.5	09	10
	31	46.2	09	10
VIII. 7	45.8	.1	13	10
	29	46.1	07	10
IX 5	46.1	.1	13	10
X. 8	46.1	.1	10	10
XI. 10	46.1	.1	09	07
	16	46.2	07	07
XII. 7	46.3	.1	03	03
	13	46.2	03	03
	23	46.2	01	03

EXPLANATION OF THE TABLES.

For each of the components D , H and V two series of tables are given. One series gives in the usual way the hourly mean values centred at half hours Gr. M. T. In these tables the column headed M gives the ordinary diurnal means. R designates the range, *i. e.* the difference between the maximum and minimum value measured on the magnetogram. The horizontal line marked M gives the monthly means of the *quiet* hourly values.

The second series of tables gives the hourly values of the *Storminess* («average perturbing force» or «activity»). As to the definition of the storminess and the method for separating it, we refer to No. 2 and No. 4 in the present series of publications. In the storminess tables the column headed M gives the diurnal means. The columns headed PS , NS and AS give the diurnal sum of the positive, negative, and absolute storminess respectively. The column headed C gives the magnetic character numbers. We consider the diurnal sum of the absolute storminess as the best expression for the magnetic activity during a day, and will use this quantity for defining the character numbers. Only the strongest perturbed component, the Horizontal Intensity, is used in characterization. Character number 0 comprises the diurnal sum of absolute storminess (AS) up to 400 γ , character number 1 from 400 γ to 1200 γ and character number 2 greater than 1200 γ . The horizontal line marked M contains the monthly means of the hourly values, and the two lines marked MPS and MNS give the monthly means of the positive and negative storminess respectively.

In D the storminess is reckoned positive towards magnetic west, in H positive towards magnetic north, and in V positive downwards.

In addition to the main tables, resuming tables, figures and vector diagrams are given at the end of the year-book.

TABLES

Tromsø.

Declination. D = 2° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

JANUARY 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	570	575	575	570	580	585	585	585	590	590	600	610	615	605	605	600	600	600	590	590	585	580	580	580	591	9	
2	575	570	575	575	575	575	570	585	590	600	620	630	630	610	615	620	630	645	630	645	630	645	630	640	300	588	74
3	375	420	420	510	525	540	580	585	585	590	615	645	675	675	675	650	615	600	590	580	580	580	800	555	573	46	
4	540	520	490	510	460	520	580	590	590	600	630	630	620	620	620	620	620	620	620	620	620	620	620	590	600	570	29
5	570	560	575	570	570	570	585	585	585	590	600	620	620	620	615	615	620	590	600	600	590	575	560	570	591	17	
6	570	570	560	560	550	575	570	585	590	600	615	610	620	620	620	615	600	600	600	590	630	585	570	580	594	23	
7	560	570	590	590	590	580	570	590	590	600	610	620	620	650	650	650	650	630	650	600	590	630	585	570	594	115	
8	540	530	580	570	565	570	565	565	565	575	575	585	585	585	585	585	590	595	595	595	595	570	565	550	570	30	
9	560	560	590	590	580	560	590	590	570	560	600	600	600	650	650	620	600	590	620	590	630	690	680	750	540	606	84
10	510	570	500	570	570	580	620	620	600	590	630	660	705	630	620	690	675	600	630	600	645	645	450	510	600	106	
11	510	540	465	585	540	585	615	675	675	630	600	600	660	680	690	635	600	600	600	630	720	600	540	510	603	133	
12	440	555	590	570	590	590	570	570	590	600	620	630	620	620	650	680	650	620	600	590	620	600	590	510	585	55	
13	530	440	570	530	540	600	620	600	600	600	620	630	630	630	600	590	580	570	590	590	480	530	570	600	575	38	
14	585	590	600	590	585	590	590	600	600	600	590	610	600	600	600	600	590	590	585	580	580	575	525	525	588	20	
15	560	560	560	570	575	575	575	575	580	590	600	600	590	590	590	590	590	600	585	575	575	570	545	570	579	17	
16	585	570	570	580	570	575	575	575	580	590	600	600	590	590	590	590	590	590	585	580	575	575	580	590	585	7	
17	590	590	590	590	585	575	575	575	575	570	575	600	620	630	605	605	605	620	605	580	550	550	525	555	588	15	
18	570	580	585	560	550	570	575	580	585	585	600	610	610	600	615	615	600	630	615	600	590	600	560	565	588	15	
19	585	590	580	580	575	570	575	580	590	590	605	615	620	630	630	630	645	645	660	585	580	575	495	495	594	41	
20	570	590	580	580	590	570	570	570	580	590	610	620	640	650	670	750	740	750	690	570	590	580	550	550	621	42	
21	510	480	530	560	590	590	580	570	580	600	605	630	660	680	550	660	690	660	630	630	600	420	450	480	591	68	
22	500	530	580	580	575	570	570	570	580	590	605	635	645	610	605	600	590	590	600	600	615	570	600	600	585	15	
23	555	555	580	570	555	570	570	570	575	585	600	605	600	590	600	590	600	600	600	600	600	580	580	580	585	15	
24	590	590	590	585	585	575	570	565	565	570	590	605	615	605	605	605	605	600	590	590	585	540	510	525	582	25	
25	540	570	580	580	575	570	570	565	565	570	585	215	230	620	615	605	600	590	590	585	590	585	580	580	585	12	
26	580	585	580	580	585	585	580	575	565	575	585	610	620	620	615	610	610	600	590	590	590	590	590	590	594	9	
27	590	590	590	590	585	580	570	565	570	585	600	675	660	705	650	690	750	765	730	840	750	690	660	540	657	75	
28	480	435	525	450	450	540	540	560	565	570	580	630	630	645	720	780	750	720	720	720	650	660	500	270	585	87	
29	350	240	330	440	500	510	580	590	580	570	580	600	620	620	590	600	590	590	590	590	590	590	590	590	534	62	
30	580	580	580	570	570	580	590	580	560	570	590	620	630	650	660	720	740	810	740	660	650	620	590	630	627	52	
31	570	575	575	590	565	565	565	560	560	565	570	575	585	590	590	600	600	590	590	590	585	585	570	570	579	7	
M	540	540	550	560	560	570	580	580	585	585	600	620	620	620	620	630	635	635	635	610	600	580	550	530	591	43	
GM	580	580	580	575	575	570	570	575	580	585	590	605	610	610	605	600	600	595	590	590	585	580	580	580	590		

FEBRUARY

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	570	510	380	440	530	560	590	590	600	590	630	650	600	650	630	600	590	590	60	590	540	560	570	580	570	41	
2	590	580	570	580	580	580	580	580	580	590	610	620	610	610	610	590	630	630	640	610	590	610	610	590	590	25	
3	440	300	-210	290	210	330	450	420	590	600	600	600	630	630	680	680	600	620	600	690	600	510	570	620	530	36	
4																											
5	440	470	120	350	480	540	600	590	270	270	270	290	620	600	620	630	650	510	650	470	240	-30	390	410	432	118	
6	450	480	560	480	480	510	540	530	540	590	570	590	630	650	630	650	620	590	570	530	320	440	510	540	540	59	
7	420	590	540	560	540	560	540	570	570	570	570	600	590	630	630	630	590	270	290	290	280	140	210	180	250	456	36
8	570	570	570	570	570	565	565	550	550	560	570	600	600	600	600	605	600	570	585	600	585	570	570	510	576	54	
9	380	390	530	540	530	540	540	570	570	590	600	650	680	680	780	660	840	960	860	750	770	560	540	420	621	115	
10	480	540	540	560	540	570	570	570	580	590	570	630	680	570	630	630	600	540	660	620	590	450	300	567	78		
11	420	470	480	530	540	570	570	590	590	570	570	590	800	560	560	600	570	570	510	450	420	510	560	540	65		
12	570	570	570	560	570	570	570	570	570	570	630	620	610	590	590	590	530	600	740	450	900	550	440	558	168		
13	590	590	540	560	570	570	580	580	590	640	630	620	630	680	560	540	590	620	590	510	530	590	420	567	91		
14	50	80	380	440	470	560	590	590	590	610	610	620	610	600	600	620	650	570	830	330	570	570	570	570	202		
15	540	510	480	500	560	640	640	640	640	640	600	650	630	620	650	690	740	590	620	330	590	570	590	510	613	65	
16	290	330	420	530	540	570	580	570	290	640	650	650	660	660	740	780	720	630	590	570	560	570	480	560	554	104	
17	555	540	510	590	550	575	580	590	590	590	620	660	690	710	720	690	710	660	600	630	540	480	480	603	81		
18	510	480	450	480	540	560	580	590	580	580	600	620	620	630	600	570	600	600	600	540	390	540	510	555	167		
19	510	660	380	450	500	570	590	590	650	660	660	690	680	590	590	600	720	570	650	630	600	590	560	530	591	116	
20	540	550	570	570	570	580	590	570	570	590	600	610	620	600	630	600	620	600	600	630	530	570	540	560	582	41	
21	560	560	570	560	570	570	580	590	590	590	590	590															

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1937.

HOURLY MEAN VALUES

Table for January 1937 showing magnetic observations (DAY 1-31) with columns for declination (1-23), M, PS, NS, AS, and summary rows (M, MPS, MNS).

FEBRUARY

Table for February 1937 showing magnetic observations (DAY 1-28) with columns for declination (1-23), M, PS, NS, AS, and summary rows (M, MPE, MNS).

MARCH

Table for March 1937 showing magnetic observations (DAY 1-31) with columns for declination (1-23), M, PS, NS, AS, and summary rows (M, MPE, MNS).

Tromsø. Declination. D = 2° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

Table for APRIL 1937. HOURLY MEAN VALUES. Columns: DAY, 1-23, M, R. Rows: 1-30. Values range from 260 to 740.

Table for MAY. HOURLY MEAN VALUES. Columns: DAY, 1-23, M, R. Rows: 1-31. Values range from 210 to 740.

Table for JUNE. HOURLY MEAN VALUES. Columns: DAY, 1-23, M, R. Rows: 1-30. Values range from 260 to 740.

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

APRIL 1937.

HOURLY MEAN VALUES

Table for April 1937 showing magnetic observations. Columns include DAY (1-30), 24 hourly values (1-24), M, PS, NS, AS. Data includes declination and storminess values.

MAY

Table for May 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS. Data includes declination and storminess values.

JUNE

Table for June 1937 showing magnetic observations. Columns include DAY (1-30), 24 hourly values (1-24), M, PS, NS, AS. Data includes declination and storminess values.

Tromsø.

Declination. D = 2° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

JULY 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	510	420	390	360	440	450	530	510	560	560	580	630	660	720	620	660	650	640	650	620	650	630	570	500	561	45	
2	450	380	380	440	500	510	500	500	510	550	580	600	620	600	600	630	660	660	680	720	530	560	500	380	540	75	
3	300	210	150	285	465	450	450	465	510	600	640	660	660	650	620	600	590	585	600	605	600	570	540	510	513	90	
4	510	470	520	520	440	440	450	465	480	535	570	630	630	645	630	620	605	600	605	600	600	545	540	540	543	26	
5	510	510	500	500	500	540	500	480	510	530	580	600	630	670	690	720	720	690	645	600	690	690	660	560	585	38	
6	530	500	480	460	470	590	510	530	550	570	570	550	580	590	780	830	680	840	760	600	750	660	620	510	624	147	
7	260	-180	-60	230	260	350	390	470	500	540	570	590	600	630	570	540	530	540	530	590	620	560	530	480	450	163	
8	440	430	425	425	420	420	435	440	470	515	540	560	560	560	575	570	550	555	585	540	525	465	450	501	19		
9	390	410	430	410	420	440	450	450	510	540	560	560	620	720	630	600	690	710	710	690	690	570	300	543	132		
10	360	180	-210	90	80	210	500	525	555	535	600	615	635	600	590	585	580	585	590	575	585	570	545	520	459	171	
11	520	500	490	450	460	470	480	510	540	570	600	620	660	720	720	870	510	780	450	860	680	630	590	620	621	59	
12	525	330	90	360	420	450	465	490	510	555	600	645	665	665	630	615	600	575	570	575	555	540	535	520	519	87	
13	515	505	470	465	440	425	420	435	465	540	590	630	645	600	600	600	615	630	660	675	670	645	615	420	555	41	
14	505	500	500	450	270	290	360	360	380	410	590	620	590	690	990	950	1290	990	830	870	690	690	570	470	615	133	
15	590	470	260	380	390	720	500	500	530	540	600	630	660	660	660	680	740	630	680	690	600	540	530	510	555	65	
16	470	450	440	420	410	390	400	420	450	510	560	600	630	660	680	580	620	660	640	680	630	630	560	560	540	44	
17	525	490	435	335	375	420	390	480	480	510	555	615	635	660	650	600	600	600	615	615	605	590	570	510	537	38	
18	400	440	440	430	420	425	430	440	480	515	540	580	620	645	645	625	615	625	625	660	720	600	600	540	543	42	
19	490	470	440	420	420	410	430	470	530	590	630	630	620	660	690	765	810	900	810	800	660	690	650	450	600	77	
20	360	240	360	370	375	510	430	495	510	555	615	675	675	675	660	630	615	585	585	585	575	570	540	490	528	75	
21	510	465	465	465	470	480	490	490	510	585	600	645	630	690	685	645	630	585	675	720	675	660	585	555	579	46	
22	300	240	480	270	140	150	130	270	320	440	450	570	680	740	860	1050	1010	960	810	850	810	660	440	390	546	202	
23	360	290	150	140	320	270	380	440	530	540	620	630	660	680	710	880	690	690	660	710	600	510	500	528	100		
24	90	-600	-660	-210	200	240	350	360	390	410	510	590	540	760	750	640	550	650	650	630	600	590	530	540	399	247	
25	380	270	360	320	210	360	420	410	420	410	420	570	590	590	660	740	680	800	770	770	590	450	570	500	420	510	104
26	360	180	420	390	350	380	380	440	470	540	570	620	630	650	680	660	650	590	600	630	590	590	540	500	516	112	
27	480	450	440	420	400	410	410	440	480	530	560	590	610	590	620	600	630	620	630	590	580	560	540	480	528	29	
28	405	450	465	450	420	420	435	450	510	560	565	605	620	620	600	600	570	560	565	585	585	555	490	495	525	30	
29	480	470	465	460	465	465	465	465	490	510	555	580	615	645	600	590	560	565	580	590	545	660	550	540	525	546	28
30	480	420	390	410	420	420	420	440	500	530	560	600	620	600	630	600	570	565	590	590	600	570	490	510	525	35	
31	500	500	490	470	470	470	470	480	480	500	550	590	620	630	630	640	610	600	660	650	600	600	590	530	561	35	
M	440	350	330	360	380	405	430	460	490	525	570	605	625	650	670	670	680	660	670	670	630	595	545	490	537	82	
QM	505	490	470	460	450	440	450	470	495	525	555	585	610	610	605	600	590	585	580	575	570	555	535	525	530		

AUGUST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	435	420	440	440	440	430	465	465	515	570	600	630	615	580	600	575	585	645	600	690	660	615	690	600	658	48
2	300	300	530	300	350	290	270	80	50	330	630	650	760	780	780	750	990	800	650	650	570	510	495	525	241	
3	450	350	360	360	360	360	390	410	510	570	570	600	550	600	660	600	620	590	600	690	740	690	300	410	513	135
4	260	240	270	-150	30	270	360	380	480	540	570	630	620	590	660	630	600	590	580	580	600	570	600	540	459	147
5	530	270	410	410	430	440	480	460	500	530	560	590	620	610	600	580	570	620	630	650	650	590	440	300	516	65
6	380	390	380	410	420	430	480	510	540	530	590	570	590	580	565	590	630	660	600	630	630	600	545	520	531	62
7	420	330	410	420	380	440	510	530	590	630	660	650	640	620	620	570	560	550	590	640	620	550	560	520	540	51
8	480	410	440	440	450	440	440	490	530	570	600	630	620	590	570	530	520	550	560	565	590	580	560	520	528	35
9	490	470	450	410	380	390	380	430	500	560	600	650	680	650	600	600	580	590	560	560	560	570	570	531	32	
10	570	555	495	480	440	410	440	480	540	580	620	630	690	690	660	650	580	590	630	675	590	570	560	565	567	36
11	540	515	495	450	435	435	440	450	495	555	600	660	675	630	590	580	580	575	585	600	600	540	535	540	546	26
12	510	495	440	450	420	420	440	470	510	570	605	635	630	615	590	565	565	565	575	575	605	560	545	555	540	26
13	525	485	450	420	455	465	455	465	525	570	630	650	645	645	605	580	565	570	575	570	570	560	550	546	29	
14	535	535	480	480	450	435	435	485	535	640	600	635	590	580	570	545	550	560	600	620	605	570	570	540	543	23
15	510	450	210	330	405	375	495	525	575	590	585	600	620	600	575	565	550	565	570	600	655	555	565	540	522	74
16	505	470	440	440	450	480	470	490	510	535	570	605	615	590	570	555	550	560	585	605	605	600	525	495	534	25
17	505	450	380	380	440	480	470	510	510	540	570	590	600	600	570	540	570	630	680	650	660	630	560	440	540	46
18	360	360	450	460	470	460	490	530	510	540	570	600	610	600	590	570	500	600	600	600	600	560	570	560	534	35
19	540	540	495	485	460	470	495	515	540	530	585	600	590	585	560	615	660	620	645	635	650	465	480	480	522	48
20	480	470	470	460	455	470	470	510	520	540	555	565	575	585	585	570	570	590	600	630	600	525	435	360	522	41
21																										

Tromsö.

Declination, Storminess (+ W). Unit Gamma.

Gr. M. T.

JULY 1937.

HOURLY MEAN VALUES

Table for July 1937 showing hourly mean values for declination and storminess. Columns include Day (1-31), M, PS, NS, AS, and summary rows for M, PS, NS, AS.

AUGUST

Table for August showing hourly mean values for declination and storminess. Columns include Day (1-31), M, PS, NS, AS, and summary rows for M, PS, NS, AS.

SEPTEMBER

Table for September showing hourly mean values for declination and storminess. Columns include Day (1-30), M, PS, NS, AS, and summary rows for M, PS, NS, AS.

Tromsø.

Declination. D = 2° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

OCTOBER 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	230	360	390	450	410	440	450	510	450	530	560	580	600	570	570	540	590	800	720	590	450	450	510	260	498	139
2	120	390	360	480	450	440	405	435	510	525	555	570	570	560	545	530	515	525	530	530	515	500	500	500	485	78
3	510	495	390	420	450	480	490	505	525	540	570	570	590	660	630	680	690	740	750	690	740	750	600	540	560	570
4	60	-300	150	-30	-150	-60	30	450	510	540	550	510	500	510	530	500	510	570	570	570	500	500	440	410	348	216
5	390	410	430	435	435	435	450	450	480	500	535	555	570	585	600	540	560	570	555	540	535	525	465	450	501	36
6	480	380	380	470	470	450	470	480	495	540	560	580	630	630	590	570	540	570	600	560	530	480	510	520	519	46
7	510	480	470	470	450	450	500	510	560	560	600	650	680	630	600	570	570	600	510	720	590	600	440	500	440	89
8	350	180	90	180	170	330	390	450	510	560	540	600	570	570	570	560	450	380	540	550	550	450	470	438	165	89
9	500	480	470	470	460	460	440	480	510	540	570	620	570	570	690	570	750	680	660	660	570	480	570	180	540	131
10	290	240	290	450	470	140	410	470	510	500	600	630	690	510	540	540	500	410	440	300	210	200	170	420	132	132
11	450	490	200	200	480	480	450	480	200	200	230	560	600	710	780	740	690	590	650	560	480	200	530	555	77	77
12	410	480	480	480	450	440	450	440	450	530	590	540	590	590	570	560	540	550	540	650	680	570	480	30	501	174
13	240	390	450	470	450	450	450	480	450	460	530	600	600	600	570	570	570	200	200	200	510	510	190	200	490	65
14	490	480	470	440	390	450	440	440	440	500	590	560	560	590	530	520	510	540	540	510	530	530	540	510	504	57
15	500	500	500	490	470	460	460	450	420	530	550	600	570	680	650	590	560	840	810	630	270	470	450	410	534	136
16	420	470	400	490	480	470	450	450	480	530	570	540	570	560	590	570	530	660	590	510	450	440	420	510	80	80
17	465	480	435	450	450	480	485	495	505	510	535	545	540	535	535	535	535	545	525	510	495	435	390	330	490	32
18	360	410	450	470	470	490	500	520	535	530	555	570	540	555	540	535	530	525	525	515	510	505	505	490	507	44
19	500	490	490	480	480	480	490	500	500	520	560	580	590	560	560	560	560	550	480	420	490	500	490	490	495	35
20	485	470	480	470	480	480	480	490	500	500	510	535	565	545	545	535	530	525	525	515	510	510	510	505	507	20
21	510	505	500	490	490	490	490	505	505	515	580	580	615	585	600	720	750	570	545	550	440	450	435	375	537	62
22	440	500	480	500	480	490	540	550	570	600	580	630	600	650	600	570	560	540	590	555	450	270	140	420	510	107
23	330	300	390	495	510	510	540	535	495	530	550	570	570	690	690	680	630	620	490	470	510	210	510	190	190	190
24	0	180	200	460	470	480	450	440	500	530	540	630	630	650	630	650	630	690	590	540	570	360	270	300	474	141
25	360	450	420	435	480	480	465	480	480	495	555	570	555	545	540	630	570	525	525	525	510	435	405	420	495	86
26	390	380	240	320	270	420	440	450	540	510	570	600	600	560	530	560	510	510	530	290	320	300	150	300	426	132
27	390	435	350	435	450	540	500	530	590	560	560	570	570	600	570	740	630	510	510	480	390	150	270	480	122	122
28	450	420	420	490	510	500	500	510	470	480	570	510	550	540	530	470	500	540	550	550	450	380	330	360	480	87
29	360	390	450	470	495	520	525	510	495	505	525	525	515	515	525	525	535	535	435	495	510	495	470	435	489	23
30	450	435	470	450	460	485	485	485	495	515	535	540	535	535	520	515	515	520	520	495	510	440	405	430	489	19
31	450	480	480	470	470	490	500	500	500	510	550	560	560	580	540	530	570	580	540	380	430	420	460	480	501	87
M	380	395	405	435	430	450	460	490	495	525	555	570	580	585	540	580	570	570	560	550	500	460	410	485	516	91
QM	505	500	495	490	485	485	490	495	500	515	530	535	540	540	540	535	530	525	520	515	510	505	505	500	510	510

NOVEMBER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	490	490	485	480	480	490	500	505	515	540	555	565	570	590	620	630	735	690	600	585	510	630	435	435	546	44	
2	425	410	210	330	425	495	520	535	525	535	545	565	555	540	520	425	535	535	585	535	450	435	240	225	468	67	
3	550	435	480	480	480	495	485	490	495	530	485	495	565	575	555	530	525	520	525	525	480	480	505	505	504	32	
4	505	500	495	490	485	495	505	510	530	535	545	560	540	555	570	555	525	535	515	515	510	500	505	505	520	10	
5	510	505	500	500	505	525	545	535	505	515	515	545	535	535	535	535	530	530	540	530	495	465	500	520	15	15	
6	505	500	495	495	495	495	485	495	500	510	540	545	545	565	560	550	565	540	535	500	470	450	435	513	17	17	
7	465	455	465	430	450	510	515	515	515	555	590	590	570	560	580	620	570	560	630	390	470	510	420	390	513	55	
8	390	240	360	420	495	480	495	510	525	540	535	540	540	540	545	555	565	630	510	540	525	465	375	405	489	94	
9	390	450	480	480	460	510	560	500	530	540	570	560	620	590	510	540	580	550	530	520	530	530	510	490	519	51	
10	465	495	480	480	495	495	490	495	500	500	510	540	515	525	585	600	545	550	515	500	490	490	485	485	510	20	
11	480	470	460	460	450	480	500	500	500	500	230	230	570	560	570	560	530	560	580	590	540	450	480	390	300	501	120
12	360	375	140	320	420	480	500	500	510	515	540	530	540	535	535	540	540	540	570	435	515	465	450	480	450	100	
13	510	465	480	470	485	510	505	515	510	505	510	515	530	545	555	540	545	550	390	540	515	510	510	510	507	99	
14	510	480	480	485	485	505	510	505	505	520	535	525	560	495	520	540	530	525	520	515	505	500	500	510	513	15	
15	505	500	495	495	495	490	495	500	505	505	505	505	510	515	510	510	495	505	495	505	505	505	505	504	9	9	
16	510	495	505	500	495	500	500	505	510	515	525	535	535	530	525	520	520	515	515	515	510	510	510	505	513	10	
17	505	505	500	500	505	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	101	
18	60	-30	50	200	370	450	540	540	540	570	570	500	510	570	680	600	690	650	630	650	570	560	630	380	420	471	132
19	450	390	420	500	500	510	500	480	500	540	560	560	510	510	610	650	510	560	600	450	480	420	440	410	510	133	
20	420	450	450	450	450	510	480	510	500	500	540	540	570	560	530	540	570	510	500	480	380	440	5				

Tromsö.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

OCTOBER 1937.

HOURLY MEAN VALUES

Table for October 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS. Summary rows include MNS and M.

NOVEMBER

Table for November 1937 showing magnetic observations. Columns include DAY (1-30), 24 hourly values (1-24), M, PS, NS, AS. Summary rows include MNS and M.

DECEMBER

Table for December 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS. Summary rows include MNS and M.

Tromsø.

Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. 7

JANUARY 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	48	77	72	70	70	68	68	67	65	65	65	68	72	72	70	72	73	75	78	78	78	78	78	71	77	
2	73	72	70	72	73	73	72	70	70	73	75	75	75	75	78	82	100	178	105	120	-30	-160	71	541		
3	35	15	5	-75	-25	70	85	83	78	77	72	75	90	95	90	77	75	72	72	78	80	78	70	60	296	
4	58	52	35	20	32	68	90	90	80	73	80	92	80	72	73	78	95	80	90	95	80	72	60	72	138	
5	50	60	67	68	75	73	77	87	83	73	68	70	73	72	73	75	80	100	97	87	82	82	82	76	92	
6	72	55	50	72	78	80	82	75	72	70	73	80	78	78	77	78	80	83	83	40	42	42	75	72	107	
7	78	80	80	80	82	80	78	75	72	75	75	78	80	80	83	130	175	85	-40	-300	-140	-220	-160	-5	28	
8	65	87	100	102	90	87	73	70	65	62	60	63	68	67	67	65	65	65	68	68	58	50	30	72	69	
9	68	68	72	78	75	70	80	70	65	55	70	65	105	100	97	90	80	90	100	93	125	25	80	-10	75	
10	20	110	72	90	80	75	65	50	65	65	65	140	160	160	210	310	155	160	135	95	35	-190	-110	25	85	
11	40	70	20	85	70	78	70	50	58	70	80	78	80	95	120	135	135	100	85	105	30	-100	-290	-115	48	
12	-45	50	75	80	90	90	80	75	78	72	68	70	85	80	80	165	175	75	70	62	60	45	20	-20	70	
13	22	10	20	-5	60	82	87	48	70	70	70	78	80	90	70	78	78	78	73	78	65	70	105	78	64	
14	70	73	70	78	80	80	77	68	65	63	67	72	68	67	68	70	70	75	73	73	73	73	50	70	82	
15	70	72	72	73	75	75	75	75	75	75	75	72	73	75	72	72	73	77	78	82	82	82	78	80	75	36
16	73	70	70	72	78	78	75	70	70	70	72	72	73	68	70	72	75	77	78	80	78	80	80	80	74	87
17	78	78	78	80	82	80	78	77	73	70	75	77	77	73	78	80	103	102	92	87	85	80	82	77	61	56
18	82	77	78	78	80	80	80	73	72	75	75	75	77	73	78	80	103	102	92	87	85	80	82	77	61	56
19	72	78	80	80	80	80	77	75	73	75	75	77	78	77	75	78	92	125	145	110	82	75	50	50	82	158
20	85	83	82	82	82	78	75	72	70	68	72	75	80	82	110	270	235	235	190	110	90	92	90	65	107	240
21	5	5	53	80	90	90	82	80	78	77	75	80	85	90	95	135	130	140	35	30	-150	-100	10	58	439	
22	20	55	70	100	82	77	72	70	68	67	65	68	72	82	83	85	80	85	100	88	95	80	70	98	76	168
23	80	68	75	80	75	73	72	70	68	63	62	65	70	75	78	78	77	78	80	83	85	82	75	74	102	74
24	78	78	78	77	78	78	73	70	63	58	55	58	60	68	72	75	80	80	80	78	68	10	50	60	68	138
25	68	80	78	78	78	80	78	73	68	62	60	65	70	70	70	73	75	75	75	75	75	75	78	73	20	78
26	80	80	82	82	83	83	82	78	70	62	60	65	70	72	75	75	78	80	80	80	80	80	80	80	77	26
27	80	80	82	83	87	85	82	80	75	78	63	65	118	90	93	155	260	200	225	160	70	10	50	-40	97	398
28	0	-10	25	-5	10	65	80	73	68	65	60	65	98	140	210	220	205	125	35	10	80	-15	-110	-130	58	500
29	-170	-215	-70	20	87	75	100	90	80	67	70	85	87	145	270	195	270	130	35	40	-115	-60	80	-90	62	689
30	78	78	78	78	73	75	80	78	73	70	65	55	75	120	335	380	290	110	45	70	90	88	65	109	500	
31	70	73	75	73	70	70	70	67	65	63	60	60	53	60	60	67	73	77	77	77	75	75	78	78	69	41
M	49	55	61	65	72	77	77	73	71	69	69	73	81	81	89	112	115	104	93	72	68	35	30	37	72	255
QM	75	76	77	77	76	75	74	73	72	70	72	74	75	75	76	77	78	79	80	80	80	80	79	78	76	

FEBRUARY

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	67	10	-70	25	78	80	75	60	58	72	72	78	58	82	102	80	70	75	88	70	30	58	70	78	61	240
2	78	78	78	78	78	78	73	72	67	63	58	57	63	70	78	97	100	95	90	83	80	78	78	60	76	194
3	-35	-300	-360	-60	-75	-220	-150	-75	40	45	70	78	80	72												
4																										
5	-70	-225	-190	5	50	60	85	87	67	55	52	62	60	70	75	140	95	150	-30	-380	-300	-115	-50			597
6	-30	0	88	40	-10	40	80	85	80	80	78	82	85	95	150	110	73	78	75	70	30	-10	-20	35	58	352
7	-85	35	60	72	72	70	80	80	63	63	58	70	75	85	90	93	85	82	87	80	20	40	60	64	255	
8	72	72	72	72	72	75	73	72	68	63	55	55	53	60	68	75	80	90	115	132	125	110	65	-125	70	418
9	-160	0	90	83	78	78	80	80	72	75	70	85	87	145	270	195	270	130	35	40	-115	-60	80	-90	62	689
10	70	80	70	80	80	73	90	73	82	78	68	90	107	270	275	130	93	100	78	80	40	-30	-100	-95	78	571
11	-40	15	-5	15	50	60	88	85	70	60	63	68	80	80	72	60	80	72	60	70	60	-70	30	68	44	383
12	60	35	-70	73	73	75	77	72	60	50	60	63	63	70	90	160	180	160	-250	-90	-5	-310	-170	0	28	643
13	110	108	-70	72	80	88	93	90	80	65	60	100	135	200	125	140	115	90	50	45	40	-120	-200	72	729	
14	-370	-260	90	-10	30	72	98	93	73	70	62	60	67	70	75	78	93	140	105	10	-190	-175	-40	-140	-3	581
15	70	70	42	45	90	82	87	70	68	67	70	88	115	113	120	180	270	150	110	-5	35	80	60	0	87	377
16	-50	-190	5	70	78	78	75	67	52	80	80	100	155	230	270	285	225	95	70	63	40	45	45	70	85	592
17	70	53	38	30	55	67	70	68	60	62	70	63	80	200	295	270	180	185	110	65	70	-120	-100	30	82	709
18	30	-30	-70	50	70	70	70	70	70	65	62	68	80	80	90	90	77	70	72	68	-35	-240	-5	10	37	520
19	-110	-205	60	65	68	80	78	78	50	42	65	105	150	68	60	145	50	80	200	110	78	63	67	35	62	638
20	68	72	80	78	78	80	72	65	62	58	65	62	55	58	75	80	85	80	88	70	50	65	78	89	71	138
21	73	73	78	80	80	78	75	73	73	72	68	60	58	52	78	103	95	90	75	15	-90	15	90	70	64	398
22	80	80	73	72	72	70	70	78	60	68	85	110	75	260	155	95	78	108	73	65	60	35	15	60	83	342
23	33	8	40	60	68	68	65	60	57	50	48	55	50	58	62	65	68	77	78	75	60	-70	5	50	199	
24	33	50	70	73	75	68	67	60	62	58	55	63	65	70	62	65	68	75	77	75	82	75	72	75	61	158
25	68	37	5	-10	55	63	70	68	60	58	57	58	70	65	63	70	68	75	77	75	82	75	72	75	61	158
26	77	75	73	73	73	70	60	62	62	60	60	78	72	83	75	80	85	88	85	75	72	68	68	74	56	
27	72	52	15	-70	-5	35	60	50	50	53	55	60	108	145	150	90	93	88	58	70	62	58	42	72	50	311

Tromsø.

Horizontal Intensity, Storminess (+ N). Unit Gamma.

Gr. M. T.

JANUARY 1937.

HOURLY MEAN VALUES

Table for January 1937 showing hourly magnetic observations. Columns include Day (1-31), hours (1-24), and various magnetic intensity and storminess indices (M, FS, NS, AS, CH). Summary rows for M, FS, NS, AS, CH and M, NS, AS, CH are provided at the bottom.

FEBRUARY

Table for February 1937 showing hourly magnetic observations. Columns include Day (1-28), hours (1-24), and various magnetic intensity and storminess indices (M, FS, NS, AS, CH). Summary rows for M, FS, NS, AS, CH and M, NS, AS, CH are provided at the bottom.

MARCH

Table for March 1937 showing hourly magnetic observations. Columns include Day (1-31), hours (1-24), and various magnetic intensity and storminess indices (M, FS, NS, AS, CH). Summary rows for M, FS, NS, AS, CH and M, NS, AS, CH are provided at the bottom.

Tromsø. Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

Table for APRIL 1937. Columns: DAY (1-30), 1-23, M, R. Rows: Daily data and monthly totals (M, QM).

Table for MAY. Columns: DAY (1-31), 1-23, M, R. Rows: Daily data and monthly totals (M, QM).

Table for JUNE. Columns: DAY (1-30), 1-23, M, R. Rows: Daily data and monthly totals (M, QM).

Tromsø.

Horizontal Intensity, Storminess (+ N). Unit Gamma.

Gr. M. T.

APRIL 1937.

HOURLY MEAN VALUES

Table for April 1937 showing magnetic observations for Tromsø. Columns include Day (1-30), 24 hourly values (1-24), M, PS, NS, AS, and CH. Data includes values like -113, -50, -20, etc., and summary values for M, PS, NS, AS, CH.

MAY

Table for May 1937 showing magnetic observations for Tromsø. Columns include Day (1-31), 24 hourly values (1-24), M, PS, NS, AS, and CH. Data includes values like -225, -305, -417, etc., and summary values for M, PS, NS, AS, CH.

JUNE

Table for June 1937 showing magnetic observations for Tromsø. Columns include Day (1-30), 24 hourly values (1-24), M, PS, NS, AS, and CH. Data includes values like -170, -130, -258, etc., and summary values for M, PS, NS, AS, CH.

Tromsø.

Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. I.

JULY 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	-25	-165	-10	25	62	45	40	55	40	40	35	40	105	215	260	120	68	55	68	55	-20	-10	-15	-25	44	611
2	-15	-30	-35	20	80	60	50	42	35	30	40	28	40	75	105	180	215	140	120	110	-170	-10	-50	-170	37	666
3	-185	-155	-130	-20	80	60	65	40	40	40	45	50	30	40	58	72	78	88	102	90	78	50	-60	30	366	
4	75	65	56	62	75	65	55	40	35	35	42	48	58	90	80	85	80	85	97	92	90	90	102	96	71	85
5	100	98	87	80	60	45	58	50	40	28	65	100	175	240	180	180	205	130	120	80	100	105	110	103	255	
6	95	90	84	85	82	75	60	50	42	53	90	205	220	550	600	450	315	250	205	105	10	-50	-170	-250	135	1080
7	-320	-370	-365	-70	30	40	60	55	50	40	30	85	95	75	60	80	88	95	130	180	120	25	50	72	14	810
8	80	85	83	80	82	80	58	50	52	50	70	80	130	165	170	152	155	140	70	65	20	5	85	228	86	
9	35	80	73	75	50	70	58	58	43	45	40	70	155	170	290	290	220	230	200	170	155	115	20	-400	96	1171
10	-370	-380	-510	-500	-360	-180	55	95	65	60	40	50	60	80	85	90	112	112	110	110	80	70	75	70	-37	755
11	80	75	75	78	75	55	50	40	35	35	60	100	130	195	225	360	340	295	230	125	15	-70	-110	-100	99	605
12	-30	-135	-200	25	100	100	80	60	55	55	45	40	60	70	85	85	85	90	85	75	72	65	65	45	383	
13	72	70	72	70	67	50	50	35	35	25	40	80	70	70	105	150	165	160	120	115	110	-90	-70	67	433	
14	70	98	70	10	-200	-140	-130	-15	-5	75	170	300	520	500	400	280	380	365	245	75	10	120	95	15	138	932
15	0	-115	-140	0	65	50	70	65	55	55	50	60	25	100	230	305	250	140	160	100	-50	-20	20	62	627	
16	45	55	60	60	80	60	55	30	28	28	20	35	90	140	190	140	140	145	160	120	60	25	-15	40	74	322
17	25	20	-5	-40	55	60	20	10	35	30	25	25	40	65	68	73	90	85	90	105	105	90	70	60	50	155
18	55	58	60	65	68	67	58	48	30	28	22	23	33	60	85	90	90	100	155	140	110	60	65	80	69	167
19	80	85	85	85	78	60	45	35	20	40	30	45	110	150	110	155	190	240	195	-20	-75	50	100	65	82	594
20	-90	-100	60	-60	-10	105	70	65	55	50	50	60	55	55	60	80	80	83	75	75	70	60	75	95	46	433
21	85	80	80	87	78	65	58	50	40	25	55	120	160	200	180	170	155	215	180	130	75	55	55	-40	98	433
22	-290	-300	-30	-200	-270	-360	-250	-30	140	170	175	220	340	520	510	420	350	200	155	112	-15	-140	-245	-125	43	594
23	-50	-100	-175	-45	60	20	0	10	10	70	110	170	240	205	175	225	220	180	115	60	50	50	35	74	511	81
24	-340	-700	-590	-210	30	20	0	140	190	205	280	405	410	305	260	190	155	200	135	-40	-25	30	-40	45	699	59
25	-350	-140	50	0	-75	20	60	55	40	70	25	65	100	350	255	215	130	-20	-400	-370	-40	-85	-100	-5	1049	5
26	-180	-100	60	10	45	55	55	40	55	60	90	100	130	270	335	220	160	95	85	75	70	40	30	45	77	616
27	40	40	60	65	58	53	45	38	33	30	50	25	40	60	80	100	100	110	130	120	80	70	35	-15	60	455
28	55	60	68	62	55	50	40	40	30	30	30	50	45	60	57	80	97	95	90	78	55	10	15	40	46	255
29	55	60	70	72	70	58	48	30	23	28	30	50	80	75	70	85	105	108	100	40	5	18	23	55	183	75
30	-5	5	40	68	65	60	50	40	25	28	35	35	40	70	75	90	105	83	95	90	90	10	25	65	54	194
31	72	77	78	78	78	75	67	58	50	43	40	33	58	70	100	125	175	220	170	130	60	40	50	-10	81	400
M	-41	-53	-27	4	26	31	36	42	44	51	58	82	117	162	181	173	167	153	137	90	33	33	13	-9	63	518
QM	68	70	72	72	67	60	52	45	40	32	30	35	38	43	50	57	65	73	77	77	75	72	68	65	58	

AUGUST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	-150	-15	75	75	65	65	58	45	30	30	50	40	95	130	155	140	150	213	175	150	70	80	90	-30	74	450
2	-235	-70	20	-280	-50	55	75	-70	-40	150	250	230	200	390	265	250	250	140	120	70	50	40	45	20	56	1304
3	0	-60	-10	10	20	40	40	25	20	25	55	90	75	100	130	70	45	50	65	90	-110	-340	-240	-330	4	827
4	-400	-280	-400	-370	-270	-110	0	25	50	120	110	70	75	130	290	170	130	100	90	60	70	70	70	10	-8	938
5	-10	-120	-55	70	72	55	45	40	28	25	30	28	30	55	65	95	90	140	165	115	65	30	-90	-125	40	466
6	-145	-50	-50	50	60	45	25	20	45	75	90	80	130	35	40	100	180	150	60	30	40	40	55	49	411	11
7	55	0	73	65	45	-5	-10	17	30	35	70	125	40	30	40	95	155	130	100	65	-20	40	55	52	272	
8	-105	-70	15	30	0	20	40	18	18	30	40	35	50	70	78	92	98	95	82	75	62	50	50	40	250	40
9	58	65	70	70	65	50	43	30	55	62	80	120	90	55	58	110	133	110	85	65	62	62	30	70	139	
10	40	50	53	60	43	35	35	38	30	55	70	110	135	173	185	165	160	100	85	70	60	58	53	79	178	
11	35	35	50	65	60	52	45	35	20	10	18	30	55	50	57	70	90	100	120	100	30	-20	40	65	51	216
12	80	80	80	77	68	58	48	30	15	3	8	12	20	40	60	68	72	78	78	78	60	80	60	56	100	100
13	45	58	58	58	42	48	38	25	10	7	2	17	32	55	80	85	85	73	65	68	70	70	70	70	51	105
14	73	70	65	65	60	53	43	30	28	20	28	40	60	73	78	77	75	85	90	82	33	70	50	59	89	89
15	20	-70	-130	-30	15	0	25	0	30	55	80	110	65	50	58	70	80	85	93	97	30	10	55	10	34	311
16	-10	25	53	65	68	65	53	37	27	30	40	33	40	70	75	75	80	80	85	80	72	60	-30	-20	48	163
17	-20	-10	15	45	60	50	40	32	30	28	35	40	40	70	115	130	155	145	125	105	93	55	-25	-80	53	215
18	-115	-50	65	80	75	60	50	28	28	23	27	50	60	75	110	118	112	110	65	83	85	85	80	70	58	255
19	65	55	45	58	65	65	60	55	38	35	40	60	60	105	130	170	240	210	165	145	150	-40	-190	80	78	633
20	75	75	73	73	72	68	65	62	62	70	78	68	90	90	90	90	95	105	110	30	-20	-60	-75	61	233	
21	-90	-60	5	40	58	50	40	28	20	20	28	30	55	70	100	112	82	78	70	68	62	205	40	90	51	250
22	80	72	70	70	-80	-280	-105	-50	-170	-310	120	360	250	100	40	35	70	85	70	25	-90	15	60	55	21	1066
23	30	20	25	45	45	30	20	10	0	-5	5	12	25	35	40	40	35	40	45	53	53	55	55	32	133	33
24	48	48	48	45	42	35	27	20	13	8	13	25	40	60	50	53	55	80	82	70	57	58	55	45	45	94
25	50	52	52	45	43	37	35	30	23	20	25	27	40	35	55	60	55	52	58	67	67	63	62	62	46	100
26	60	50	38	45	50</																					

Tromsø.

Horizontal Intensity. Storminess (+ N). Unit Gamma.

Gr. M. T.

JULY 1937.

HOURLY MEAN VALUES

Table for July 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS, and CH. Data includes values like -83, -85, -88, etc., and summary rows for M, PS, NS, AS, CH.

AUGUST

Table for August 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS, and CH. Data includes values like -210, -177, 10, etc., and summary rows for M, PS, NS, AS, CH.

SEPTEMBER

Table for September 1937 showing magnetic observations. Columns include DAY (1-30), 24 hourly values (1-24), M, PS, NS, AS, and CH. Data includes values like 0, -2, 10, etc., and summary rows for M, PS, NS, AS, CH.

Tromsø.

Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	-105	-30	45	70	50	25	-30	-15	75	55	70	125	105	125	105	105	135	110	30	-220	-125	-25	-15	-250	17	677	
2	-200	-55	-50	68	75	60	50	53	50	25	50	30	25	30	38	45	65	75	55	42	50	45	50	60	30	427	
3	40	20	85	105	20	50	50	48	25	30	50	115	220	410	500	440	250	230	185	140	-10	-100	-35	55	122	727	
4	-400	-670	-550	-270	-450	5	-15	110	40	10	5	0	5	25	55	60	60	75	70	40	15	25	-25	-75	77	1043	
5	-55	-10	38	38	35	35	30	20	10	5	8	12	23	105	170	100	45	50	50	50	53	30	15	25	37	311	
6	20	-35	-25	50	55	50	45	30	25	20	18	13	55	65	65	105	108	100	95	30	-35	-40	30	45	37	286	
7	40	37	20	15	50	20	50	40	15	15	30	90	145	110	170	220	230	120	-40	-130	-20	-30	-215	-145	35	644	
8	-80	-200	-500	-400	-200	-190	-95	40	60	45	80	65	70	60	90	70	5	72	70	70	25	20	-10	-32	882		
9	45	48	48	48	50	48	42	35	23	17	30	25	220	200	85	50	200	80	-120	-5	-35	-100	-110	-160	32	555	
10	-80	-85	-40	70	20	25	-60	-200	-70	60	100	175	220	180	90	60	65	75	45	-10	-110	-210	-350	-250	-12	888	
11	40	65	60	55	50	35	30	40	30	35	25	28	80	160	170	100	210	130	50	-10	-100	50	70	70	61	611	
12	-30	40	55	45	45	40	40	45	20	55	155	75	60	50	40	35	40	60	60	-10	-270	-120	-180	16	760		
13	-105	-30	20	45	55	58	50	45	35	60	60	80	100	150	180	145	65	27	27	30	40	30	35	50	62	411	
14	50	50	45	-120	-120	-50	50	45	42	45	60	40	50	75	45	50	42	60	65	85	75	72	65	50	36	466	
15	50	57	58	55	53	57	55	50	50	70	60	115	235	140	155	230	220	210	75	-180	-240	25	15	-10	67	877	
16	-35	30	55	60	60	58	55	48	20	40	50	45	60	35	65	110	145	145	95	40	45	-15	-70	-70	45	361	
17	55	60	45	40	30	50	50	40	35	30	30	35	37	40	43	55	75	80	60	30	5	-130	-120	-120	23	272	
18	-170	-20	60	60	55	45	45	40	38	50	70	70	25	35	35	60	50	53	55	60	50	60	60	58	39	300	
19	58	58	60	60	58	57	52	50	43	40	60	50	60	40	48	55	75	70	70	20	55	55	55	55	54	194	
20	53	48	45	55	58	55	50	45	40	32	28	30	45	38	42	47	50	52	55	57	60	60	60	60	49	39	
21	60	60	60	60	62	62	60	40	42	40	45	58	90	130	165	225	240	145	90	72	-30	-45	-75	-95	65	422	
22	-125	25	60	50	58	25	30	35	40	30	35	40	80	80	220	190	105	60	52	70	50	-110	-170	-15	-50	40	627
23	-100	-110	-60	60	40	35	60	65	55	115	150	190	200	240	245	220	115	-120	-60	-90	-200	-250	-280	-470	1	1149	
24	-290	-225	110	70	60	60	65	55	55	80	55	100	240	230	140	90	70	100	60	-10	-15	-295	-160	-120	23	705	
25	-150	-205	-90	50	60	55	60	35	30	25	55	175	165	200	280	150	40	115	95	20	-80	-90	-20	42	622	202	
26	-80	-40	-200	-450	-180	50	25	-85	65	150	165	75	70	105	95	130	90	40	-160	-105	-135	-300	-220	-170	-44	971	
27	-145	35	-50	40	5	25	55	60	75	165	135	230	230	145	55	60	90	70	65	20	-100	-145	-320	-145	27	755	
28	-20	0	20	63	60	60	55	50	25	30	62	20	30	70	75	110	65	62	68	70	-135	-195	-340	-135	7	844	
29	-65	0	25	60	60	70	55	50	58	48	35	30	32	55	80	120	65	65	55	45	40	30	10	-25	42	239	
30	-105	-10	50	58	60	60	52	40	40	30	30	25	23	35	35	40	25	-10	55	55	55	55	55	55	30	359	
31	-5	0	40	55	60	60	58	48	35	28	35	45	60	70	50	50	55	60	75	-30	-160	-25	15	45	31	405	
M	-55	-35	-16	9	13	37	36	33	36	46	58	69	100	114	114	116	105	76	48	12	-32	-61	-68	-63	29	574	
QM	55	55	54	53	52	60	47	42	37	35	36	37	38	40	43	48	50	52	53	57	60	60	60	58	49		

NOVEMBER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	43	45	45	53	57	57	53	48	38	30	30	35	45	60	90	190	200	60	105	40	45	10	15	15	59	327	
2	15	-5	-190	-50	25	50	50	35	30	30	30	30	30	40	43	43	45	48	60	-25	-35	-30	-190	-180	-4	427	
3	-35	30	50	65	65	53	50	45	35	37	43	50	52	50	50	50	50	50	53	55	45	35	52	52	45	161	
4	52	53	53	55	55	55	50	48	43	37	37	45	50	65	60	60	63	57	50	53	50	50	52	50	52	44	502
5	53	53	55	57	53	48	50	50	30	25	25	35	33	35	40	45	52	52	53	65	68	25	50	57	46	59	
6	48	50	52	53	53	55	52	47	42	37	40	43	43	45	57	65	67	73	82	60	45	20	-5	-15	45	111	
7	15	30	15	15	53	60	63	55	52	53	55	55	55	65	85	145	90	75	75	-85	-75	-40	-50	-45	34	372	
8	-55	-85	20	10	70	65	55	48	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
9	0	-15	10	45	20	25	45	10	30	77	85	57	145	140	200	100	47	50	45	45	50	55	110	45	59	405	
10	50	50	43	45	45	45	43	40	43	43	45	37	50	60	115	100	50	43	43	43	47	48	50	45	51	567	
11	35	45	45	43	43	53	53	50	35	48	45	50	65	55	53	55	85	100	-25	-125	-100	-125	-230	17	105		
12	-95	-15	-165	-35	65	65	70	55	53	53	55	50	40	45	53	50	57	78	55	-10	-55	-35	-135	20	14	400	
13	55	55	55	52	55	55	47	45	42	37	43	40	47	57	55	57	63	90	70	75	60	58	55	63	55	161	
14	55	50	45	40	65	68	55	50	48	47	47	45	62	80	75	60	55	55	55	57	57	57	57	55	56	105	
15	53	53	52	53	53	53	52	50	48	47	42	43	43	45	48	50	53	55	55	57	57	53	53	52	51	28	
16	45	53	53	53	52	50	47	45	40	37	33	33	35	50	53	55	57	58	58	57	55	55	55	53	49	22	
17	45	55	55	55	58	63	60	55	45	47	52	53	60	90	155	125	175	160	95	60	25	-20	-150	64	638		
18	-340	-340	-310	-200	-100	-75	-65	-70	-75	-70	-5	105	200	160	320	275	245	90	80	-35	30	15	-70	15	-9	704	
19	30	-20	-5	55	70	65	55	60	45	45	115	325	255	225	350	50	105	35	60	-85	15	-120	-100	-64	740		
20	5	37	60	50	25	55	50	45	55	95	110	75	80	200	185	145	155	130	100	45	-35	-5	-215	-45	58	638	
21	80	125	120	105	25	55	50	50	43	65	55	60	200	85	60	63	70	100	70	20	65	-35	-85	-50	58	342	
22	-75	30	-10	10	75	65	80	65	85	90	100	110	100	265	240	115	15	-75	85	-145	-380	-370	-250	-175	2	857	
23	-140	-70	60	50	55	60	105	55	75	85	80	120	120	135	145	85	95	175	-25	85	-175	-230	-75	-100	17	694	
24	-85	-25	35	25	35	68	50	55	65	90	100	220	225	125	50	45	75	85	-55	-50	-15	-75	-45	46	495		
25	-55	40	55	55	58	55	53	55	50	50	53	55	65	65	65	75	73	77	15	-15	45	50	30	47	250		
26	45	50	50	50	60	72	65	53	48																		

Tromsø.

Horizontal Intensity. Storminess (+ N). Unit Gamma.

Gr. M. T.

OCTOBER 1937.

HOURLY MEAN VALUES

Table for October 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS, CH. Data values range from -180 to 350.

NOVEMBER

Table for November 1937 showing magnetic observations. Columns include DAY (1-30), 24 hourly values (1-24), M, PS, NS, AS, CH. Data values range from -60 to 150.

DECEMBER

Table for December 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS, CH. Data values range from -180 to 180.

Tromsø.

Vertical Intensity. $V = 50200 +$ Tabular Quantities expressed in Gamma.

Gr. M. T.

JANUARY 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	75	88	95	92	88	90	90	90	90	90	88	88	87	87	88	88	88	88	88	88	88	88	90	90	89	48	
2	90	88	88	87	85	88	88	88	90	85	82	85	85	88	88	90	95	100	30	50	90	130	110	87	238		
3	10	25	20	40	-40	10	65	80	85	95	100	105	110	115	115	98	95	92	90	88	85	70	65	71	211		
4	85	40	-10	20	30	35	80	100	100	110	100	98	95	90	90	90	97	95	80	105	97	88	72	77	129		
5	72	73	78	85	83	77	77	90	92	88	87	90	90	90	90	100	93	97	92	88	88	87	87	87	48		
6	85	65	42	70	70	73	78	78	80	90	90	90	85	85	88	100	115	125	-60	0	280	190	250	175	125	102	605
7	90	80	65	75	90	90	98	98	98	95	97	98	92	92	93	97	98	100	98	90	85	90	90	92	116	616	
8	95	90	90	90	90	88	88	88	85	100	115	110	85	100	110	100	97	93	100	90	-10	10	70	45	84	394	
9	45	75	85	90	80	85	85	95	110	100	100	95	75	115	40	35	53	45	95	60	65	70	30	45	74	340	
10	80	75	75	60	68	55	85	85	70	78	80	90	90	100	135	120	110	110	105	50	30	120	300	70	93	483	
11	75	-5	60	90	90	90	90	90	85	90	90	95	95	100	100	40	90	125	95	92	95	110	85	0	82	231	
12	30	40	65	35	32	55	80	75	80	85	95	90	110	110	110	105	100	92	95	90	40	30	55	90	75	156	
13	90	87	87	90	88	82	85	88	90	80	87	93	97	92	90	90	90	90	90	90	90	93	75	58	88	54	
14	65	80	88	87	87	88	88	88	85	83	83	82	82	90	92	93	95	105	100	98	92	80	75	80	87	61	
15	85	80	78	73	80	87	88	85	83	80	85	88	90	92	92	90	88	88	87	87	87	85	80	80	85	27	
16	80	80	80	80	82	83	83	85	88	88	80	87	87	88	85	85	88	95	95	70	85	70	60	30	81	88	
17	73	80	75	80	80	80	80	80	82	85	85	87	88	88	87	90	110	115	108	95	95	90	90	85	93	75	
18	77	78	87	82	80	78	78	80	80	80	80	82	83	85	87	90	93	100	118	110	130	100	92	80	85	95	
19	70	80	83	80	80	80	80	80	80	80	80	80	80	90	105	85	140	105	60	60	70	92	95	110	85	218	
20	130	50	65	65	80	90	93	88	82	85	88	90	88	110	110	95	60	-105	-15	80	70	240	170	110	84	503	
21	110	75	30	80	90	85	87	88	90	92	92	92	93	90	90	90	88	88	88	88	95	85	95	88	136		
22	98	90	75	92	90	88	88	88	88	90	90	90	90	90	90	87	85	87	85	87	50	80	85	83	87	75	
23	87	87	88	88	83	83	85	87	88	90	92	92	93	90	90	90	98	93	90	68	65	20	40	83	48		
24	60	75	82	80	80	78	78	83	87	90	90	88	88	90	88	87	85	85	85	83	60	80	78	78	82	41	
25	78	78	80	80	80	82	87	90	90	88	80	80	85	85	85	82	80	78	77	77	77	77	77	81	54		
26	78	78	78	78	78	78	80	80	78	78	70	90	105	130	85	10	80	35	5	50	130	100	120	78	86	265	
27	70	80	100	110	70	40	75	78	90	90	93	95	112	130	130	110	75	65	50	70	75	100	220	190	97	326	
28	220	195	55	5	35	75	70	80	85	85	90	90	110	108	97	92	92	90	88	90	75	72	65	75	97	306	
29	80	80	82	83	80	75	70	78	80	85	90	87	90	110	0	-45	0	0	80	70	85	85	100	68	81	281	
30	90	85	85	85	85	87	87	88	88	90	92	92	90	90	88	87	87	87	87	87	87	83	83	87	27	397	
M	83	76	72	75	73	76	83	85	86	86	89	90	91	96	97	87	86	78	78	87	79	94	96	81	84	188	
QM	82	82	82	82	81	80	81	83	85	87	89	90	90	90	90	89	87	86	85	84	83	82	81	81	85		

FEBRUARY

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	95	105	75	25	50	63	75	87	90	100	88	95	100	100	105	125	95	88	90	80	63	68	75	82	84	211
2	88	87	85	82	80	83	83	83	83	85	87	88	90	95	103	115	115	110	103	105	95	88	80	70	91	82
3	180	380	165	130	120	20	-40	0	25	55	70	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	185	230	40	55	90	60	75	95	105	110	108	110	110	110	102	100	90	100	65	130	100	85	130	140	105	422
5	130	115	95	98	80	45	60	90	90	115	100	100	120	130	138	125	102	100	45	40	50	106	80	93	197	
6	120	50	65	87	92	87	100	92	98	102	105	110	120	110	108	125	120	112	110	108	70	-5	10	70	90	204
7	90	90	92	92	93	93	95	97	97	95	97	98	100	100	98	97	100	118	120	100	50	60	65	50	91	211
8	20	-10	75	93	80	75	82	87	88	92	95	93	115	105	9	100	-250	-180	-40	70	310	160	370	245	79	762
9	85	90	90	95	110	80	90	100	95	97	95	110	125	70	50	140	118	90	85	60	105	165	130	0	95	354
10	60	70	90	75	70	80	90	95	100	97	100	115	110	130	110	98	97	95	105	-80	0	20	60	78	299	
11	80	75	78	85	85	85	87	88	92	90	98	100	102	100	125	75	-60	150	10	70	270	30	25	85	694	
12	60	100	110	95	92	90	93	90	95	92	105	120	120	120	125	100	120	80	-10	35	40	-20	150	87	401	
13	65	-75	-40	30	25	75	100	95	98	98	95	95	98	100	98	70	-75	10	370	285	180	200	280	97	938	
14	75	105	98	85	70	80	85	78	93	95	100	106	125	115	120	140	110	150	125	70	85	90	95	140	198	163
15	120	60	5	70	82	82	87	95	95	100	110	135	140	110	85	40	65	100	100	90	95	105	65	70	88	238
16	95	90	85	70	70	88	88	88	95	98	102	120	100	130	150	130	155	190	80	65	80	5	0	96	347	
17	70	130	40	15	70	75	85	92	97	100	100	112	130	115	123	115	118	110	100	60	120	120	55	115	94	558
18	200	-50	55	65	60	70	80	82	95	110	120	125	140	155	120	80	0	175	20	110	110	108	100	130	94	109
19	95	88	90	82	78	80	83	90	92	90	90	92	98	90	105	97	100	90	80	35	20	50	85	83	136	
20	92	90	88	80	73	72	75	75	80	87	90	95	92	100	110	120	108	65	-90	-60	70	90	85	75	299	
21	85	87	87	85	82	82	78	78	85	97	105	130	145	125	170	150	105	80	85	90	90	90	70	75	98	129
22	70	55	45	70	80	82	82	85	90	90	90	93	97	95	93	92	90	90	90	90	92	80	30	82	95	88
23	40	53	70	85	78	78	80	78	75	100	87	85	97	105	105	100	92	92	90	70	80	88	87	80	84	88
24	85	80	70	30	35	60	70	72	80	83	87	85	83	88	90	90	88	85	88	85	87	80	78	80	77	88
25	82	82	80	85	88	75	78	80	88	93	100	97	125	110	100	100	90	88	90	90	90	75	75	75	89	88
26	80	80	65	5	-10	20	60	75	78	82	100	80	95	150	165	160	125	110	100	93	85	72	75	70	84	211
27	85	75	30	60	80	80	80	82	75	92	85	83	88													

Tromsø.

Vertical Intensity. Storminess (+ Down). Unit Gamma.

Gr. M. T.

JANUARY 1937.

HOURLY MEAN VALUES

Table for January 1937 showing magnetic observations. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

FEBRUARY

Table for February 1937 showing magnetic observations. Columns include Day (1-28), hours (1-24), and summary statistics (M, PS, NS, AS).

MARCH

Table for March 1937 showing magnetic observations. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

Tromsø. Vertical Intensity. V = 50200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1937.

HOURLY MEAN VALUES

Table for April 1937 showing hourly mean values for vertical intensity. Columns include Day (1-30), hours (1-24), and monthly totals (M, R). Values range from approximately 45 to 340 gamma.

MAY

Table for May showing hourly mean values for vertical intensity. Columns include Day (1-31), hours (1-24), and monthly totals (M, R). Values range from approximately 50 to 340 gamma.

JUNE

Table for June showing hourly mean values for vertical intensity. Columns include Day (1-30), hours (1-24), and monthly totals (M, R). Values range from approximately 45 to 340 gamma.

Tromsø.

Vertical Intensity. Storminess (+ Down). Unit Gamma.

Gr. M. T.

APRIL 1937.

HOURLY MEAN VALUES

Table for April 1937 showing hourly mean values for vertical intensity, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS, and summary rows for M, PS, NS, AS, MFS, and MNS.

MAY

Table for May showing hourly mean values for vertical intensity, storminess, and unit gamma. Columns include Day (1-31), M, PS, NS, AS, and summary rows for M, PS, NS, AS, MFS, and MNS.

JUNE

Table for June showing hourly mean values for vertical intensity, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS, and summary rows for M, PS, NS, AS, MFS, and MNS.

Tromsø.

Vertical Intensity. V = 50200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	120	70	0	15	50	72	70	93	110	120	105	95	90	105	145	130	105	93	90	85	30	45	40	60	81	218	
2	75	72	60	60	85	97	102	103	107	107	108	110	85	95	110	125	125	125	105	50	65	115	190	140	101	347	
3	110	70																									
4	90	95	88	78	80	85	90	90	88	80	80	80	80	80	102	95	95	90	82	82	88	90	92	97	88	34	
5	95	92	90	90	100	85	80	80	85	100	100	110	135	175	220	155	145	115	115	100	80	98	98	100	110	163	
6	100	100	100	98	97	97	97	98	98	98	90	80	115	160	140	-40	-5	0	90	110	90	55	-20	170	-260	69	626
7	350	260	115	30	25	45	60	93	97	110	115	110	125	105	130	120	115	115	130	105	160	95	95	110	116	503	
8	115	112	110	110	108	100	100	100	108	112	118	118	130	130	128	140	155	160	135	110	80	85	90	90	114	163	
9	85	90	93	90	95	95	105	108	100	120	110	145	190	140	190	140	135	135	125	150	125	270	260	132	401		
10	360	470	160	200	240	0	5	70	95	110	108	105	100	110	118	125	130	125	115	120	110	110	110	108	158	728	
11	110	105	103	100	103	110	110	108	105	110	120	135	165	190	180	110	145	140	115	90	125	160	165	320	135	381	
12	350	350	150	5	60	90	105	108	110	110	110	108	110	110	117	110	110	108	100	98	105	105	100	100	120	564	
13	90	100	100	98	103	103	100	98	96	110	115	120	150	160	140	135	135	137	130	130	125	130	125	118	118	299	
14	90	110	115	100	140	20	-20	90	140	175	140	125	25	-300	-320	-215	-100	100	130	230	105	160	130	55	768		
15	145	290	160	50	92	98	110	125	115	130	140	170	150	175	155	140	100	150	120	135	225	180	130	140	143	326	
16	125	100	110	105	120	115	112	110	112	113	110	110	115	130	125	160	130	125	130	125	90	75	75	114	136		
17	120	123	126	80	65	85	110	60	60	90	97	97	93	95	98	108	110	115	120	120	120	110	110	110	101	102	
18	108	108	103	95	98	98	100	100	100	95	97	102	102	98	97	97	97	97	90	85	80	83	88	105	97	61	
19	105	102	100	95	97	98	103	105	108	100	112	112	90	175	140	-70	-110	55	120	100	175	220	70	50	94	510	
20	225	175	45	55	20	85	120	95	90	100	85	85	100	105	100	105	115	115	110	110	110	100	100	100	102	340	
21	100	105	110	110	105	110	105	105	102	130	130	140	180	155	165	162	155	140	120	110	120	145	210	180	134	170	
22	260	350	325	355	180	380	145	140	105	110	150	90	45	-40	-30	10	90	110	85	250	350	280	150	160	619		
23	100	210	130	45	55	110	65	85	100	85	115	150	110	145	160	105	120	90	40	-5	80	130	125	190	105	340	
24	350	420	250	95	70	70	100	125	170	180	180	80	60	155	175	190	180	85	90	150	160	120	200	154	592		
25	430	120	70	95	90	60	85	110	120	125	120	150	130	115	50	95	85	90	100	240	160	100	160	240	131	524	
26	180	90	85	110	95	82	110	110	125	125	120	145	145	115	110	112	115	140	120	110	115	115	110	110	117	272	
27	115	110	100	100	105	105	100	98	90	100	105	110	100	100	100	110	105	115	110	115	115	110	90	80	104	54	
28	70	50	90	105	110	110	110	110	105	105	105	105	95	105	105	125	130	120	100	80	80	85	75	97	118	97	
29	90	90	95	105	110	110	110	110	110	110	105	100	110	120	125	120	115	115	110	100	90	80	95	105	75	75	
30	85	70	60	80	100	110	110	100	100	90	90	85	85	70	85	95	120	120	110	110	95	65	55	80	109	109	
31	110	110	110	108	108	110	100	100	100	103	105	115	140	145	150	150	145	125	115	105	108	100	140	117	61	61	
M	156	152	112	95	96	98	92	100	105	110	113	116	110	103	101	98	102	118	111	108	114	114	120	115	111	316	
QM	103	103	103	102	102	101	102	103	104	105	106	107	107	107	106	105	104	103	102	102	103	104	105	105	104	104	

AUGUST

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R	
1	170	50	85	100	95	100	103	105	110	105	120	125	125	155	170	195	165	125	120	120	120	110	108	190	124	347
2	280	25	45	350	390	430	460	475	140	-90	60	110	110	-110	-160	-60	-125	-100	30	110	125	160	170	85	120	1013
3	205	170	120	105	90	95	115	120	105	110	110	110	140	180	140	125	145	125	120	115	90	105	160	160	400	139
4	410	500	270	150	130	-45	40	120	120	150	140	155	170	165	170	168	165	150	130	120	105	125	125	75	159	904
5	210	165	90	105	105	115	112	110	112	112	115	118	120	110	105	110	120	110	100	98	95	100	160	145	118	892
6	95																									
7	170	145	125	110	98	90	80	115	115	105	85	80	120	100	115	115	125	145	110	110	105	100	100	95	111	163
8	95	50	55	70	80	80	100	105	110	120	125	125	145	140	145	150	130	120	118	110	110	110	110	110	110	116
9	105	110	115	115	110	110	105	100	100	120	115	105	100	110	130	120	110	97	120	135	120	110	103	80	110	61
10	75	90	100	105	115	105	100	90	95	110	120	140	125	155	185	170	150	115	100	115	115	110	105	100	116	129
11	95	85	105	110	110	110	110	110	110	115	110	110	105	135	145	115	120	120	115	100	70	95	80	90	107	109
12	100	108	108	103	100	98	98	98	95	100	110	110	103	103	103	100	102	100	100	93	90	90	93	100	27	100
13	75	90	98	98	75	70	90	98	95	95	95	98	100	98	103	115	122	110	102	100	100	100	100	100	97	61
14	98	98	100	100	100	100	100	100	103	110	103	107	110	100	110	117	115	110	98	95	90	95	102	102	41	102
15	100	120	70	0	30	60	70	78	80	85	120	145	200	125	110	113	120	120	112	100	110	95	92	90	98	156
16	80	85	90	95	95	98	102	103	108	108	110	130	125	120	120	118	115	110	105	98	98	100	85	75	103	75
17	73	75	65	65	80	88	90	93	98	97	93	120	130	110	125	145	140	120	120	125	105	105	140	140	106	109
18	110	100	95	95	98	98	90	90	95	100	100	100	125	120	130	150	130	110	113	100	105	110	105	100	102	122
19	100	100	98	90	90	93	97	100	94	97	108	114	125	145	125	145	125	145	130	115	95	150	35	65	104	292
20	100	107	104	108	108	105	98	98	98	98	102	105	97	103	110	130	130	112	105	90	95	105	95	115	105	95
21	130	65	45	60	70	70	70	85	95	100	110	115	120	120	130	110	110	110	103	98	95	105	110	105	98	136
22	105	103	103	100	140	-120	-45	145	100	120	-180	-220	-60	125	125	125	90	90	100	120	130	70	80	135	65	639
23	150	135	125	120	120	125	125	125	120	120	115	110	120	125	125											

Tromsö.

Vertical Intensity. Storminess (+ Down). Unit Gamma.

Gr. M. T.

JULY 1937.

HOURLY MEAN VALUES

Table for July 1937 showing magnetic observations. Columns include Day (1-31), M, PS, NS, AS, and hourly mean values (1-23).

AUGUST

Table for August 1937 showing magnetic observations. Columns include Day (1-31), M, PS, NS, AS, and hourly mean values (1-23).

SEPTEMBER

Table for September 1937 showing magnetic observations. Columns include Day (1-30), M, PS, NS, AS, and hourly mean values (1-23).

Tromsø.

Vertical Intensity. V = 50200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1937.

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	360	220	150	95	125	130	160	115	130	150	150	160	175	175	180	155	125	30	135	350	170	130	220	300	170	517	
2	140	50	80	95	125	120	130	125	150	130	140	150	160	140	125	130	130	130	120	120	120	115	115	115	125	279	
3	115	100	140	75	55	75	90	103	115	125	130	145	180	160	0	20	100	55	30	55	140	200	130	150	104	367	
4	490	410	430	530	500	390	320	180	160	160	185	185	170	160	170	160	100	120	150	195	160	200	180	241	891		
5	140	140	125	135	140	140	135	135	140	140	140	145	150	155	145	160	155	135	140	140	130	115	125	130	140	102	
6	140	130	125	90	95	115	125	125	125	115	115	115	110	135	150	155	135	115	110	135	175	145	118	113	125	122	
7	115	120	125	110	115	115	110	120	135	135	120	130	150	180	155	100	-25	50	115	115	185	200	360	220	156	650	
8	300	410	160	470	280	100	110	110	140	150	155	160	150	150	130	140	75	60	110	135	155	135	120	100	166	646	
9	115	130	130	130	130	125	120	130	120	125	85	-140	-135	-230	-70	100	200	215	200	190	170	150	94	680	94	680	
10	210	130	110	120	100	115	145	115	50	70	115	90	95	160	150	140	120	130	110	170	310	230	190	20	133	415	
11	40	115	135	125	110	115	115	125	130	125	130	125	140	10	-125	-40	60	95	150	130	75	100	35	89	660	660	
12	180	115	120	120	125	125	118	120	145	130	85	120	130	125	130	125	125	120	125	115	170	190	270	138	483	483	
13	85	100	100	120	120	125	120	125	130	135	130	160	135	130	150	175	130	120	125	120	100	105	115	124	129	129	
14	120	120	115	90	0	-10	75	100	130	125	130	150	130	135	150	125	120	115	120	115	120	130	120	110	211	211	
15	113	113	110	-110	110	110	112	120	140	165	160	125	75	125	120	60	-60	-125	90	300	280	110	113	130	113	823	
16	155	120	120	125	130	125	120	120	125	125	115	130	115	130	120	125	80	-60	40	95	110	90	130	85	106	340	
17	95	125	120	100	105	100	115	115	120	120	125	120	120	120	120	130	130	105	115	150	140	145	140	121	156	156	
18	80	40	90	102	100	105	100	110	115	120	125	140	135	110	115	115	113	113	112	112	112	112	110	108	190	190	
19	110	105	105	110	110	110	110	110	110	110	112	110	118	135	135	125	115	120	130	180	5	90	110	110	112	143	
20	110	108	100	100	108	110	110	113	113	113	112	112	110	117	115	115	112	110	110	110	110	110	110	110	110	110	34
21	110	110	110	110	110	110	110	113	115	115	125	145	170	170	145	80	150	150	125	150	160	190	180	132	184	184	
22	140	105	100	110	110	112	100	100	125	125	130	125	150	120	140	160	145	125	100	100	180	180	155	125	127	326	
23	190	240	50	60	60	95	110	130	145	140	130	110	95	40	135	50	45	-65	140	100	310	300	440	530	158	959	
24	500	140	-30	105	115	125	130	140	125	125	155	120	95	95	173	35	20	120	110	175	155	120	-10	80	123	775	
25	240																									347	
26	165	130	210	160	85	55	105	155	130	130	125	170	180	190	180	150	10	60	0	70	130	310	85	125	130	612	
27	125	120	145	130	120	110	120	145	150	135	160	80	90	35	5	-30	85	165	145	145	105	85	245	265	120	517	
28	85	130	125	120	130	130	145	155	150	150	140	175	150	160	153	160	140	140	145	45	250	300	160	125	148	415	
29	90	100	110	110	120	120	125	140	145	150	145	140	140	130	140	150	170	155	140	130	100	120	130	120	130	116	
30	105	90	105	120	125	123	128	133	137	137	137	140	135	130	128	128	125	125	130	115	100	85	65	117	82	82	
31	85	95	95	100	103	105	110	120	130	133	140	145	145	160	165	155	155	150	145	160	165	75	95	100	126	197	
M	163	139	124	136	126	118	124	123	129	130	131	133	133	127	120	98	90	97	117	133	160	151	150	148	129	399	
QM	110	110	110	109	108	107	107	108	110	112	113	114	115	115	115	115	114	113	112	112	111	111	110	110	111	111	

NOVEMBER

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	100	115	115	118	118	120	120	123	127	126	130	135	138	153	165	140	105	110	110	90	70	110	138	155	122	136	
2	130	160	100	-20	15	60	83	100	115	125	135	140	138	142	145	137	135	130	115	160	150	240	20	50	113	245	
3	60	75	100	110	115	110	112	112	118	120	125	130	140	142	142	138	130	125	122	115	110	93	110	115	115	136	
4	125	125	123	120	120	118	120	122	125	126	130	137	140	155	165	167	167	155	140	132	130	128	123	125	154	48	
5	120	120	120	120	115	105	95	95	110	115	125	125	125	125	123	123	123	127	127	123	115	98	98	110	116	48	
6	115	120	120	120	118	115	120	122	123	123	120	122	127	130	128	133	140	138	138	128	115	105	100	85	121	82	
7	70	90	90	60	80	83	105	115	118	120	118	130	137	145	145	140	160	130	120	90	110	210	270	230	128	416	
8	400	230	140	110	85	115	120	120	120	120	120	120	120	130	130	135	133	85	85	30	120	140	240	75	134	616	
9	120	130	55	75	65	70	112	125	130	125	135	130	160	155	70	140	145	150	132	128	125	115	60	100	115	197	
10	115	125	122	117	118	116	118	120	120	123	125	122	130	140	180	135	125	122	118	117	115	110	112	112	112	184	88
11	105	105	112	112	110	110	105	110	110	112	125	128	135	130	148	120	118	120	110	-95	40	160	170	200	113	609	
12	170	130	110	5	75	100	105	130	130	125	127	130	130	127	120	118	115	115	110	15	20	80	70	80	102	357	
13	110	115	118	110	108	105	110	112	118	118	118	120	123	127	145	140	120	118	113	112	112	118	113	115	117	98	
14	125	113	102	100	95	115	115	115	116	116	120	123	127	145	140	120	118	113	112	112	118	113	115	117	88	114	
15	117	117	115	113	112	110	110	110	112	117	118	118	118	120	117	113	115	117	117	117	112	112	110	110	114	27	
16	100	108	110	112	110	110	110	110	110	110	113	115	117	118	115	113	110	110	110	110	110	110	108	111	20	111	
17	98	95	105	108	105	105	108	112	112	120	123	122	140	175	150	180	150	118	140	185	95	95	-15	116	204		
18	-120	-100	-95	-100	-20	55	75	70	70	120	175	165	100	110	-20	60	85	95	90	90	125	300	170	180	70	589	
19	130	160	110	95	110	120	120	130	135	130	100	40	50	-300	-150	-125	30	60	90	115	185	205	230	240	83	622	
20	165	110	105	110	90	95	120	125	140	130	115	135	125	90	90	-20	55	120	135	120	55	105	150	-5	103	487	
21	70	90	108	95	80	93	110	120	125	130	128	130	175	135	140	128	120	120	50	80	110	205	230	200	124	313	
22																											

Tromsø.

Vertical Intensity. Storminess (+ Down). Unit Gamma.

Gr. M. T.

OCTOBER 1937.

HOURLY MEAN VALUES

Table for October 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS. Summary rows for MPS and MNS are at the bottom.

NOVEMBER

Table for November 1937 showing magnetic observations. Columns include DAY (1-30), 24 hourly values (1-24), M, PS, NS, AS. Summary rows for MPS and MNS are at the bottom.

DECEMBER

Table for December 1937 showing magnetic observations. Columns include DAY (1-31), 24 hourly values (1-24), M, PS, NS, AS. Summary rows for MPS and MNS are at the bottom.

Resuming Tables.

Diurnal Variation.
QUIET VALUES.

Tromsø.

Declination. Unit Gamma. + West.

1957	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JANUARY	-3	-3	-3	-4	-4	-5	-5	-4	-3	-1	2	6	7	7	6	5	4	3	2	1	-1	-2	-3	-3
FEBRUARY	-3	-3	-3	-4	-4	-5	-5	-4	-3	-1	2	5	7	7	6	5	4	3	2	0	-1	-2	-3	-3
MARCH	0	-2	-3	-5	-7	-8	-8	-7	-5	0	3	7	10	10	8	5	4	3	2	1	0	-1	-2	-4
APRIL	-4	-7	-9	-11	-12	-14	-14	-12	-7	1	6	8	9	11	11	10	9	8	7	6	3	-1	-4	-4
MAY	-9	-14	-16	-19	-23	-24	-21	-14	-9	-1	7	16	19	19	17	16	14	12	11	9	6	2	-1	-6
JUNE	-3	-7	-12	-16	-22	-25	-23	-18	-10	-2	5	13	17	18	18	17	15	13	12	10	8	5	2	-6
JULY	-10	-15	-20	-25	-28	-30	-28	-21	-13	-3	7	17	25	25	24	22	20	17	16	15	12	7	0	-6
AUGUST	-3	-10	-15	-22	-25	-25	-23	-15	-3	5	13	17	17	15	12	8	7	10	10	10	8	7	3	0
SEPTEMBER	-2	-4	-6	-11	-12	-14	-14	-11	-7	-4	4	11	14	14	11	9	8	7	6	5	4	3	1	-1
OCTOBER	-3	-4	-6	-8	-9	-9	-8	-6	-4	1	6	7	9	9	8	7	6	4	2	1	-1	-2	-3	-4
NOVEMBER	-3	-4	-4	-5	-6	-6	-4	-3	-1	2	4	6	7	7	6	5	4	2	1	-1	-2	-3	-4	-4
DECEMBER	0	0	-1	-1	-2	-2	-1	-1	0	1	2	3	5	5	4	3	2	1	0	-1	-2	-2	-2	-2
MEAN	-4	-6	-8	-11	-13	-14	-13	-10	-5	0	5	10	12	12	11	10	8	9	6	5	3	1	-1	-3

Horizontal Intensity. Unit Gamma.

JANUARY	-1	0	1	1	0	-1	-2	-3	-4	-6	-4	-2	-1	-1	0	1	2	3	4	4	4	4	3	2
FEBRUARY	4	4	3	3	2	2	1	-1	-6	-11	-14	-13	-8	-6	-4	-1	1	2	4	6	7	7	6	4
MARCH	5	6	7	7	5	4	3	0	-7	-13	-17	-15	-10	-7	-3	0	3	5	6	7	7	5	4	3
APRIL	7	9	9	8	7	6	-1	-10	-19	-26	-29	-26	-19	-13	-6	-1	6	14	16	16	14	12	9	7
MAY	7	9	11	11	7	1	-6	-14	-18	-24	-18	-13	-6	-3	-1	2	4	6	7	7	7	6	4	2
JUNE	12	14	15	15	9	2	-5	-11	-18	-25	-28	-26	-21	-15	-10	-5	2	10	15	17	17	15	12	10
JULY	10	12	14	14	9	2	-6	-13	-18	-26	-28	-23	-20	-15	-8	-1	7	15	19	19	17	14	10	7
AUGUST	7	9	12	12	7	-1	-8	-15	-23	-30	-30	-25	-18	-11	-3	2	9	14	17	17	17	15	12	9
SEPTEMBER	10	10	8	7	5	2	-3	-8	-13	-20	-23	-18	-13	-10	-7	-2	5	10	13	13	13	12	11	10
OCTOBER	6	6	5	4	3	1	-2	-7	-12	-14	-14	-12	-11	-9	-6	-1	1	3	4	8	11	11	11	9
NOVEMBER	2	3	4	5	5	4	2	-1	-6	-10	-13	-11	-8	-6	-3	0	2	4	5	5	4	4	3	2
DECEMBER	-1	1	2	4	4	2	-1	-3	-4	-5	-6	-4	-3	-2	-1	0	1	2	3	4	4	2	1	-1
MEAN	6	7	8	8	5	2	-2	-7	-12	-16	-19	-15	-11	-8	-4	-1	4	7	9	10	10	9	7	4

Vertical Intensity. Unit Gamma.

JANUARY	-3	-3	-3	-3	-4	-5	-4	-2	0	2	4	5	5	5	5	4	2	1	0	-1	-2	-3	-4	-4
FEBRUARY	-4	-4	-4	-4	-5	-5	-4	-2	-1	1	3	4	6	6	5	4	3	2	1	0	-1	-2	-3	-4
MARCH	-3	-3	-4	-5	-4	-3	-2	0	2	3	5	6	7	7	7	5	3	2	0	-2	-3	-4	-5	-5
APRIL	3	3	1	-1	-2	-3	-2	-1	0	0	1	2	3	3	3	2	1	0	-1	-2	-2	-1	0	1
MAY	1	1	-1	-2	-4	-6	-6	-4	-2	-1	0	1	2	3	3	3	2	1	-1	-1	0	1	1	1
JUNE	-5	-5	-4	-4	-3	-3	-2	-1	0	1	2	3	4	5	5	5	3	1	0	-1	-2	-2	-3	-4
JULY	-1	-1	-1	-2	-2	-3	-2	-1	0	1	2	3	3	3	2	1	0	-1	-2	-2	-1	0	1	1
AUGUST	-2	-2	-2	-3	-4	-5	-5	-4	-3	-2	0	4	5	5	5	4	3	2	0	-2	-2	-1	0	0
SEPTEMBER	-1	0	0	-1	-2	-3	-3	-1	0	1	2	4	4	4	3	2	1	0	-1	-3	-4	-5	-3	-3
OCTOBER	-1	-1	-1	-2	-3	-4	-4	-3	-1	1	2	3	4	4	4	4	3	2	1	1	0	0	-1	-1
NOVEMBER	0	0	-1	-2	-3	-5	-5	-3	-2	0	2	3	4	4	4	4	3	2	0	-1	-2	-2	-3	-3
DECEMBER	-2	-2	-3	-4	-4	-5	-5	-4	-3	-2	0	1	2	3	3	3	2	1	1	1	1	0	-1	-2
MEAN	-2	-1	-2	-3	-3	-4	-4	-2	-1	0	2	3	4	4	4	4	2	1	0	-1	-2	-2	-2	-2

Monthly Means.

DECLINATION.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DIRECT VALUES. $D = 2^{\circ}W + \dots$	59.1	56.1	56.8	54.5	53.5	55.2	53.7	52.5	51.9	51.6	49.5	50.1	53.7
QUIET VALUES. $D_0 = 2^{\circ}W + \dots$	59.0	58.0	57.0	56.5	48.5	54.0	53.0	52.5	52.0	51.0	51.5	50.0	53.6
RANGE.	43	74	66	86	84	81	82	61	66	91	73	54	71.7
QUIET RANGE.	12	12	18	25	43	43	55	42	28	18	13	7	26.3
STORMINESS, MEAN (UNIT γ).	1	-7	-5	-7	0	4	1	0	-2	-5	-5	0	-2.0
DIURNAL SUM FS (UNIT γ).	122	127	142	219	272	311	283	174	152	174	116	146	186
NS	94	281	252	389	279	223	250	172	199	303	237	153	236
AS	216	408	394	608	550	553	532	347	352	477	353	298	422
HORIZONTAL INTENSITY.													
DIRECT VALUES. $H = 11300 + \dots$	72	57	53	43	50	58	63	47	37	29	39	49	49.8
QUIET VALUES. $H_0 = 11300 + \dots$	76	71	65	66	66	63	58	53	50	49	48	51	68.0
RANGE.	265	411	380	477	502	513	518	376	427	574	427	350	432
QUIET RANGE.	10	21	24	45	35	45	47	47	36	25	18	10	30
STORMINESS, MEAN (UNIT γ).	-4	-14	-12	-23	-16	-3	4	-6	-13	-20	-10	-3	-10
DIURNAL SUM FS (UNIT γ).	203	318	369	424	625	759	871	407	338	505	441	390	470
NS	300	641	658	973	1009	833	778	558	655	979	670	475	711
AS	603	959	1028	1398	1634	1592	1649	965	993	1484	1111	865	1181
VERTICAL INTENSITY.													
DIRECT VALUES. $V = 50200 + \dots$	84	90	90	109	114	112	111	110	117	129	113	111	107.5
QUIET VALUES. $V_0 = 50200 + \dots$	85	89	90	94	99	102	104	105	108	111	115	117	101.5
RANGE.	188	343	276	365	341	300	316	223	267	399	513	237	297
QUIET RANGE.	10	11	12	8	9	10	6	10	9	8	9	8	9
STORMINESS, MEAN (UNIT γ).	-1	1	0	14	15	2	7	5	4	18	-3	-5	-5
DIURNAL SUM FS (UNIT γ).	142	294	269	600	612	389	460	341	299	653	285	185	377
NS	171	272	284	280	247	352	282	195	206	230	347	306	263
AS	313	567	532	880	858	741	742	535	505	883	632	491	640

Resuming Tables.

Storminess.

Tromsø.

Declination. Unit Gamma. + West.

1937.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JAN MPS	1	0	0	1	0	1	2	3	5	2	3	4	5	6	6	10	13	13	19	8	7	9	3	1
FEB MPS	1	2	1	0	0	1	3	3	5	7	7	9	10	10	10	7	11	11	11	13	4	1	1	0
MAR MPS	0	0	0	0	0	1	1	1	2	4	8	11	10	16	15	12	12	12	12	10	7	6	2	0
APR MPS	0	0	0	0	0	0	0	2	2	2	6	13	17	20	18	19	17	19	25	29	15	9	2	1
MAY MPS	2	2	1	1	2	3	3	3	5	8	11	14	19	15	22	22	23	25	28	25	19	11	5	3
JUN MPS	1	2	1	1	2	3	3	5	6	12	16	18	21	22	23	27	25	25	29	28	22	13	5	3
JUL MPS	2	1	1	1	2	4	4	3	4	6	9	9	9	15	21	25	32	28	30	31	21	14	8	3
AUG MPS	1	2	1	0	1	1	4	4	3	4	7	11	14	12	12	14	12	13	14	15	14	6	5	3
SEP MPS	1	0	0	1	1	2	4	4	5	9	11	13	12	10	9	9	9	12	13	10	5	4	6	1
OCT MPS	0	0	0	0	1	1	2	2	2	4	8	13	13	14	15	17	16	18	17	16	8	3	2	1
NOV MPS	0	0	0	0	0	2	3	2	2	3	4	6	6	11	14	15	13	10	14	5	4	4	0	0
DEC MPS	1	1	1	1	0	2	3	3	2	3	5	8	9	13	10	14	17	19	16	8	5	2	1	1
MEAN	1	1	1	1	1	2	3	3	4	5	8	11	12	14	15	16	17	17	19	17	11	7	3	1
JAN MNS	11	13	9	6	6	2	1	1	1	1	0	0	0	0	0	0	1	1	1	3	6	14	17	17
FEB MNS	25	24	31	20	15	7	3	3	8	5	5	4	10	1	3	3	4	6	7	13	23	26	19	27
MAR MNS	38	30	30	23	16	14	11	11	8	1	1	1	0	0	0	0	0	1	1	2	5	8	21	29
APR MNS	31	49	54	32	32	26	21	19	16	13	11	7	4	0	0	1	3	1	0	1	4	16	25	24
MAY MNS	23	50	42	29	19	15	9	6	4	5	4	3	2	0	0	1	0	3	3	5	4	7	14	19
JUN MNS	20	42	45	26	17	10	8	9	6	4	6	4	2	0	1	1	0	0	0	0	0	1	10	11
JUL MNS	23	45	47	33	24	17	10	8	7	5	2	2	3	1	1	1	1	1	1	0	2	1	4	11
AUG MNS	19	21	16	17	14	10	6	10	16	11	4	1	0	0	0	0	1	0	0	2	3	5	8	10
SEP MNS	26	35	30	17	12	5	5	4	1	0	0	0	0	0	0	1	1	0	1	1	4	12	25	20
OCT MNS	40	35	30	18	20	14	13	7	4	2	1	1	1	1	1	2	2	2	3	5	12	19	32	39
NOV MNS	27	26	25	18	10	3	1	2	2	1	1	1	2	3	3	2	2	4	6	7	10	20	29	31
DEC MNS	20	21	18	17	9	4	2	2	1	1	0	0	1	1	1	0	0	5	2	5	7	7	14	15
MEAN	25	33	31	21	16	11	8	7	6	4	3	2	2	1	1	1	1	2	2	4	6	11	18	21
JAN MPS - MNS	-10	-13	-9	-5	-5	-1	2	2	5	1	2	3	5	5	6	10	12	18	7	4	2	-10	-15	-15
FEB MPS - MNS	-24	-22	-30	-20	-15	-6	-1	0	-3	2	2	5	9	9	7	3	7	6	4	0	-19	-25	-18	-27
MAR MPS - MNS	-38	-30	-30	-23	-16	-13	-10	-10	-6	2	7	10	10	16	15	12	11	11	11	8	3	-2	-19	-29
APR MPS - MNS	-30	-49	-54	-32	-32	-25	-20	-18	-14	-11	-5	6	13	20	18	17	14	19	24	28	12	-6	-22	-23
MAY MPS - MNS	-20	-48	-41	-28	-16	-13	-6	-3	1	3	7	11	16	15	22	21	22	22	25	20	15	4	-9	-16
JUN MPS - MNS	-20	-41	-44	-25	-16	-7	-5	-4	0	8	10	14	20	22	23	26	24	25	29	28	22	11	-5	-9
JUL MPS - MNS	-21	-45	-46	-33	-23	-13	-6	-5	-2	2	7	8	6	14	20	24	30	27	29	31	19	14	4	-8
AUG MPS - MNS	-18	-19	-15	-17	-13	-8	-1	-6	-13	-7	3	10	14	12	12	13	11	13	14	14	11	2	-3	-7
SEP MPS - MNS	-25	-35	-29	-16	-11	-3	-1	0	4	9	11	13	12	10	9	8	9	12	12	9	1	-8	-18	-19
OCT MPS - MNS	-40	-35	-30	-17	-19	-12	-11	-4	-2	2	8	12	13	14	14	15	14	16	14	11	-4	-16	-31	-38
NOV MPS - MNS	-27	-26	-25	-18	-10	-2	2	-1	0	2	3	5	3	8	10	13	11	6	8	-2	-6	-16	-29	-31
DEC MPS - MNS	-19	-20	-17	-16	-9	-2	1	1	1	2	5	8	9	13	9	13	17	14	14	3	-2	-5	-12	-14
MEAN	-24	-32	-31	-21	-15	-9	-5	-4	-2	1	5	9	11	13	14	15	15	15	17	15	5	-4	-14	-20

Horizontal Intensity. Unit Gamma.

1937	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JAN MPS	1	2	1	3	3	3	4	3	2	1	1	4	9	9	15	37	39	27	20	11	4	2	2	1
FEB MPS	1	2	1	1	2	4	5	5	6	6	7	15	20	36	56	45	43	29	20	7	2	2	1	0
MAR MPS	3	1	1	2	3	2	2	2	2	6	14	26	38	46	51	45	43	36	22	13	6	1	1	1
APR MPS	0	0	1	0	0	0	1	4	5	10	25	38	38	51	60	48	60	44	22	6	4	1	10	1
MAY MPS	0	0	0	1	1	2	7	7	14	25	40	46	54	70	79	77	76	64	39	18	7	2	1	1
JUN MPS	1	0	1	3	3	3	4	4	9	16	43	68	84	105	105	100	80	58	33	15	7	1	5	7
JUL MPS	4	3	1	1	3	4	3	5	10	18	27	47	79	117	128	113	100	85	69	31	8	6	4	4
AUG MPS	1	0	1	2	1	2	2	1	2	14	29	41	38	41	47	45	43	42	31	15	5	1	2	1
SEP MPS	0	0	1	2	4	7	4	3	5	5	16	19	20	33	48	57	47	34	21	8	3	1	0	0
OCT MPS	0	1	4	6	4	4	4	7	7	18	27	36	65	76	71	65	55	34	16	6	1	0	1	0
NOV MPS	2	3	3	3	4	6	6	4	8	18	23	35	50	69	78	47	35	22	16	4	1	0	2	1
DEC MPS	2	1	3	1	3	6	8	11	10	15	18	24	38	50	42	42	42	28	20	12	4	3	3	5
MEAN	1	1	2	2	3	4	4	5	6	13	23	33	44	59	65	60	55	41	27	12	4	2	3	2
JAN MNS	28	23	17	15	8	1	1	3	3	3	4	4	3	2	2	1	2	7	19	16	47	51	39	39
FEB MNS	67	83	61	28	17	16	10	8	4	3	1	1	1	2	1	0	1	1	15	27	68	89	69	68
MAR MNS	88	61	46	37	25	15	19	16	6	4	3	3	2	1	0	0	1	1	8	25	34	71	103	90
APR MNS	110	114	106	73	51	28	12	9	8	3	1	0	1	2	1	0	0	3	15	43	69	97	111	117
MAY MNS	131	146	117	109	67	32	7	7	5	2	4	4	3	1	0	1	0	1	6	29	47	65	103	125
JUN MNS	120	132	113	64	47	27	21	9	4	3	1	1	1	0	0	0	0	0	7	17	38	64	78	86

JUL	MNS	108	126	100	70	45	35	21	9	4	2	1	1	1	0	0	0	0	1	3	19	51	46	57	78
AUG	MNS	80	67	47	42	44	22	10	13	14	14	3	2	2	1	2	2	1	1	0	7	23	50	52	59
SEP	MNS	69	96	65	28	14	12	10	4	6	4	4	5	3	1	0	0	1	1	9	15	36	74	91	84
OCT	MNS	110	90	71	49	42	17	14	15	7	3	3	4	2	1	0	4	1	9	21	51	93	121	129	121
NOV	MNS	62	45	45	35	15	6	4	7	6	4	2	1	0	0	0	0	3	28	17	42	62	92	111	84
DEC	MNS	47	47	39	34	26	15	5	0	1	0	0	0	0	1	1	0	5	15	15	33	43	48	52	48
MEAN		87	86	69	49	33	19	11	8	6	4	2	2	2	1	1	1	1	5	10	27	48	72	84	83
JAN	MPS - MNS	-27	-21	-16	-12	-4	2	3	0	-1	-2	-3	0	6	7	13	35	38	25	13	-8	-11	-45	-50	-39
FEB	MPS - MNS	-66	-82	-60	-27	-14	-12	-6	-3	2	3	6	14	18	34	55	45	41	28	5	-20	-65	-87	-68	-68
MAR	MPS - MNS	-85	-60	-44	-35	-22	-13	-17	-14	-4	1	12	23	36	46	51	45	42	36	16	-12	-28	-70	-101	-89
APR	MPS - MNS	-110	-114	-105	-72	-51	-27	-11	-5	-3	7	24	37	37	50	58	48	60	40	7	-38	-65	-96	-102	-116
MAY	MPS - MNS	-131	-146	-117	-108	-66	-30	0	0	9	23	36	42	51	69	79	77	75	63	33	-12	-40	-63	-102	-123
JUN	MPS - MNS	-119	-132	-112	-61	-45	-24	-17	-4	5	13	42	67	83	106	105	100	80	67	26	-2	-31	-63	-73	-79
JUL	MPS - MNS	-104	-123	-99	-68	-42	-31	-17	-4	5	16	26	46	78	116	128	113	100	85	66	12	-42	-40	-53	-75
AUG	MPS - MNS	-79	-67	-46	-41	-43	-20	-8	-12	-12	-1	26	39	36	40	45	44	42	41	31	7	-18	-48	-51	-68
SEP	MPS - MNS	-69	-96	-64	-27	-9	-5	-6	0	-1	0	12	14	17	32	48	57	46	33	12	-8	-34	-74	-91	-84
OCT	MPS - MNS	-110	-90	-68	-44	-38	-13	-11	-9	0	15	25	33	63	75	70	61	54	25	-5	-45	-92	-121	-128	-120
NOV	MPS - MNS	-60	-42	-42	-31	-11	0	2	-3	2	13	22	34	50	69	78	47	32	-6	-1	-37	-61	-92	-109	-83
DEC	MPS - MNS	-45	-45	-36	-33	-23	-10	3	10	10	15	18	24	38	49	41	42	36	14	6	-21	-39	-45	-48	-43
MEAN		-85	-85	-67	-50	-31	-15	-7	-4	1	9	21	31	43	58	64	60	54	37	15	-15	-44	-70	-81	-81

Vertical Intensity. Unit Gamma.

1937.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
JAN	MPS	9	5	2	3	2	2	2	3	2	2	3	2	3	7	9	5	7	8	6	5	6	17	21	11	
FEB	MPS	14	22	6	3	4	1	1	3	4	6	7	10	15	16	19	2	13	17	12	15	20	20	21	23	
MAR	MPS	24	13	13	4	1	1	5	4	3	4	4	6	5	7	9	11	11	8	8	8	14	30	37	36	
APR	MPS	62	56	41	42	27	23	15	19	9	6	5	6	12	13	16	20	17	9	4	8	27	31	67	59	
MAY	MPS	58	52	27	26	24	18	9	4	2	2	9	12	12	21	21	19	17	14	16	22	29	29	42	59	
JUN	MPS	34	31	10	9	2	7	8	5	5	6	8	14	22	14	23	23	19	14	8	10	23	21	35	39	
JUL	MPS	58	56	20	12	10	12	4	4	5	9	11	14	15	22	24	19	19	13	15	21	23	28	31		
AUG	MPS	30	30	10	12	14	14	15	18	7	8	9	12	16	16	19	20	16	11	7	6	7	11	15	37	
SEP	MPS	24	13	11	10	6	3	2	3	3	6	8	10	12	14	17	21	19	11	7	7	19	32	23	24	
OCT	MPS	60	36	24	33	26	17	18	14	20	19	19	21	25	26	24	19	14	11	16	31	50	46	48	47	
NOV	MPS	21	8	3	3	1	1	1	3	6	8	7	8	9	11	11	16	13	10	6	5	14	21	38	32	29
DEC	MPS	37	10	6	1	1	1	1	3	5	6	7	9	10	11	12	12	8	7	9	12	8	7	10	10	
MEAN		36	28	14	13	10	8	7	7	6	7	8	10	13	15	17	15	14	11	9	13	20	25	32	35	
JAN	MNS	9	11	12	9	9	7	2	1	1	1	1	2	2	1	2	7	9	16	13	20	12	6	8	11	
FEB	MNS	7	21	19	17	12	13	10	6	4	2	2	2	1	1	6	23	19	16	13	24	23	17	20	17	
MAR	MNS	11	20	16	12	19	11	5	3	3	3	4	6	17	20	20	9	12	14	6	9	5	10	14	11	
APR	MNS	12	12	21	17	11	11	6	2	2	10	16	20	18	15	19	18	11	9	12	13	6	11	3	11	
MAY	MNS	7	9	17	16	24	13	15	14	16	15	15	20	24	15	20	17	5	8	6	4	2	3	12	8	
JUN	MNS	10	17	43	32	25	19	15	8	6	5	8	14	13	21	15	14	8	12	13	12	12	7	13	12	
JUL	MNS	5	8	12	19	15	14	14	6	4	4	3	10	22	27	25	22	4	4	9	10	13	13	21		
AUG	MNS	7	10	13	8	12	16	11	3	2	6	13	13	7	9	9	9	8	5	2	3	3	7	23		
SEP	MNS	15	20	29	29	18	11	12	6	3	2	2	2	3	3	2	2	4	5	6	8	5	5	4	14	
OCT	MNS	7	7	10	6	8	8	2	1	2	1	1	2	4	14	19	36	37	24	11	10	2	5	7	9	
NOV	MNS	19	17	21	31	21	12	4	3	2	0	1	3	7	30	27	24	23	13	14	24	18	7	10	18	
DEC	MNS	11	16	14	17	19	15	7	2	1	1	1	1	5	16	21	25	22	28	17	11	19	18	10	11	
MEAN		10	14	19	18	16	13	9	5	4	4	6	7	9	14	16	17	15	13	10	12	10	9	10	14	
JAN	MPS - MNS	0	-6	-10	-6	-7	-5	0	2	1	1	0	1	6	7	-1	-2	-7	-7	-15	-5	11	14	1		
FEB	MPS - MNS	7	1	-13	-14	-8	-13	-8	-3	-1	4	5	8	14	14	13	21	-6	1	-1	-9	-3	4	1	7	
MAR	MPS - MNS	12	-6	-6	-8	-18	-10	0	0	0	1	0	-1	-12	-13	-11	2	-1	-6	2	-1	9	21	23	25	
APR	MPS - MNS	51	45	20	25	16	13	9	16	8	-4	-10	-14	-6	-2	4	3	7	1	-8	-5	21	19	64	48	
MAY	MPS - MNS	50	44	11	9	1	4	7	10	14	13	6	8	12	6	1	2	13	7	10	17	26	26	30	40	
JUN	MPS - MNS	25	15	-32	-23	-23	-13	-7	-3	-1	2	0	0	9	-7	9	9	10	2	-4	-3	11	13	22	28	
JUL	MPS - MNS	53	48	8	-7	-6	-2	-10	-3	1	6	7	11	5	0	-2	-6	-3	15	9	6	12	10	16	10	
AUG	MPS - MNS	22	20	-4	4	2	-4	5	-15	5	0	-4	-1	9	8	9	11	7	3	2	4	4	8	8	14	
SEP	MPS - MNS	9	-7	-20	-19	-12	-8	-10	-4	0	4	6	8	9	11	15	19	15	6	1	-1	13	27	19	10	
OCT	MPS - MNS	53	29	14	28	17	10	16	13	18	17	18	19	21	12	5	-17	-23	-13	5	21	48	41	38		
NOV	MPS - MNS	2	-8	-19	-28	-20	-10	-1	3	6	7	8	6	4	-19	-11	-12	-12	-7	-9	-10	3	31	22	12	
DEC	MPS - MNS	6	-4	-8	-15	-19	-14	-5	1	4	5	5	8	5	5	-9	-12	-14	-20	-8	1	-12	-11	0	-2	
MEAN		24	14	-5	-5	-6	-4	0	2	5	5	4	5	6	2	3	-2	-1	-2	-1	0	11	17	22	19	

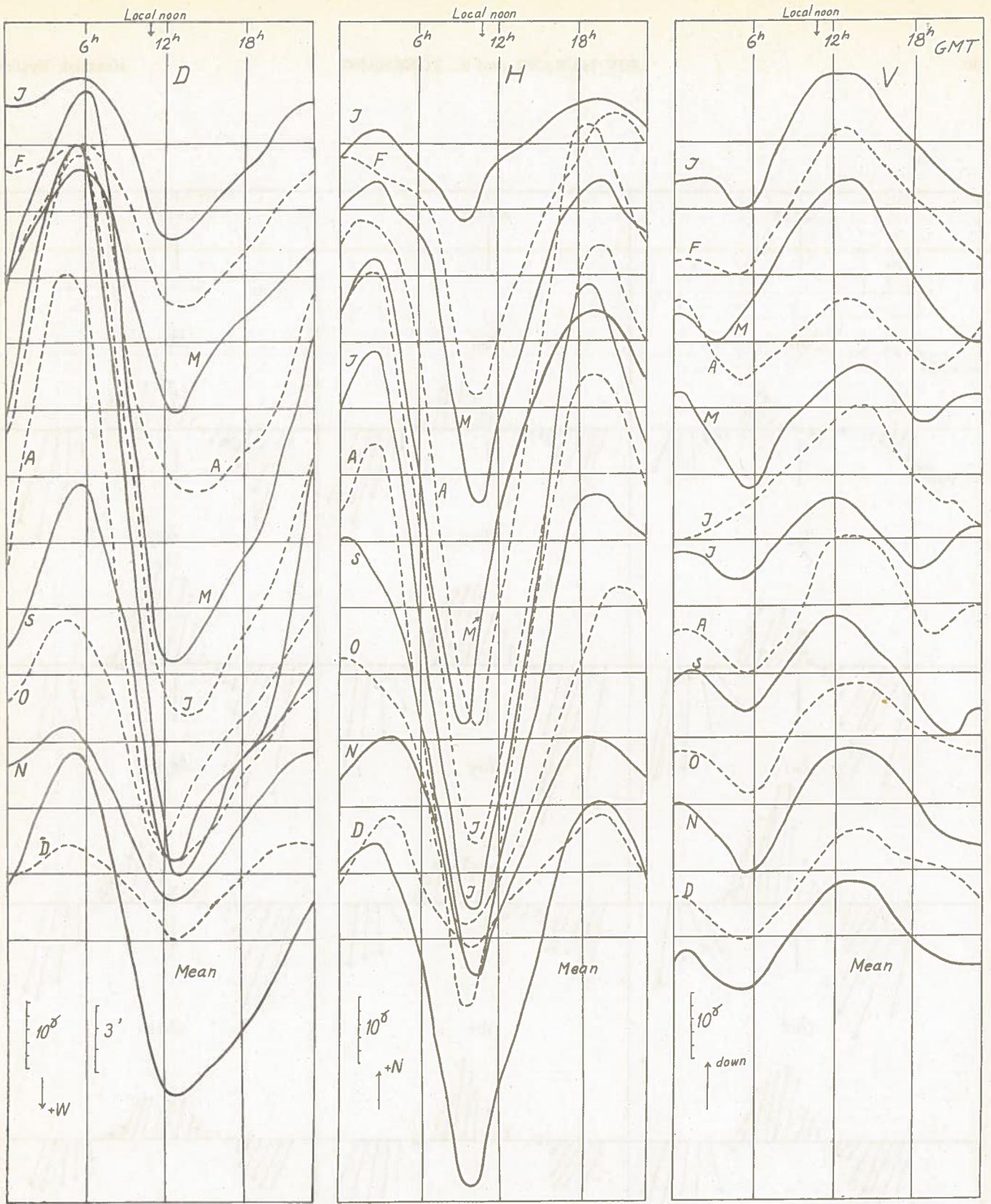
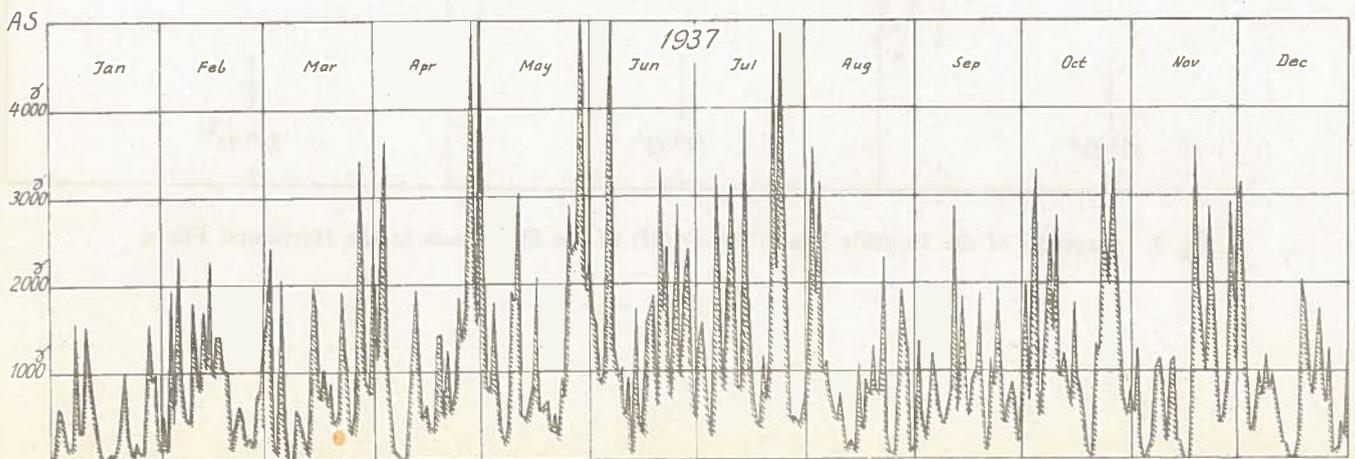


Fig. 1. The quiet Diurnal Variation, smoothed Values.



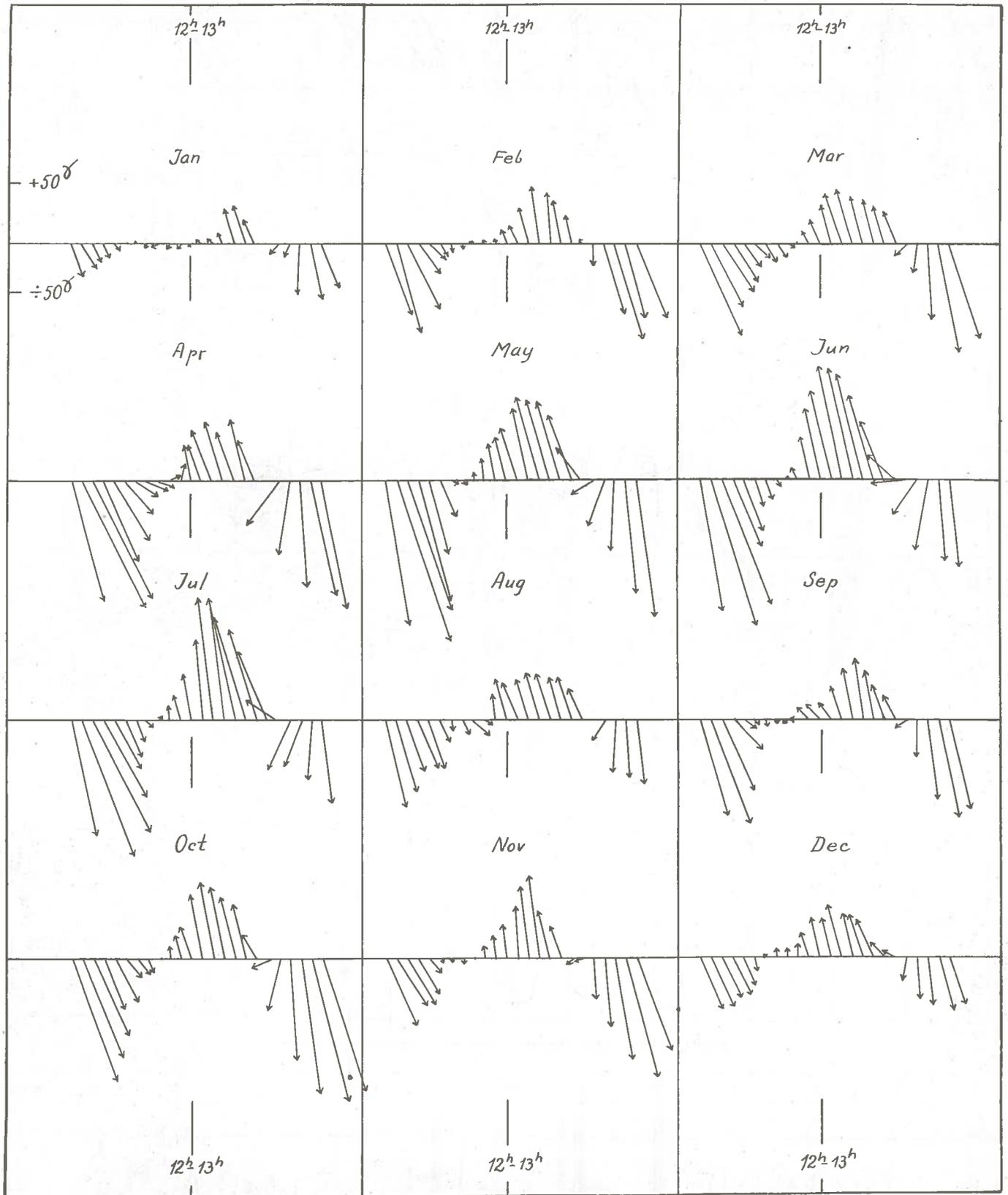


Fig. 3. Diagrams of the Monthly Mean Values (M) of the Storminess in the Horizontal Plane.

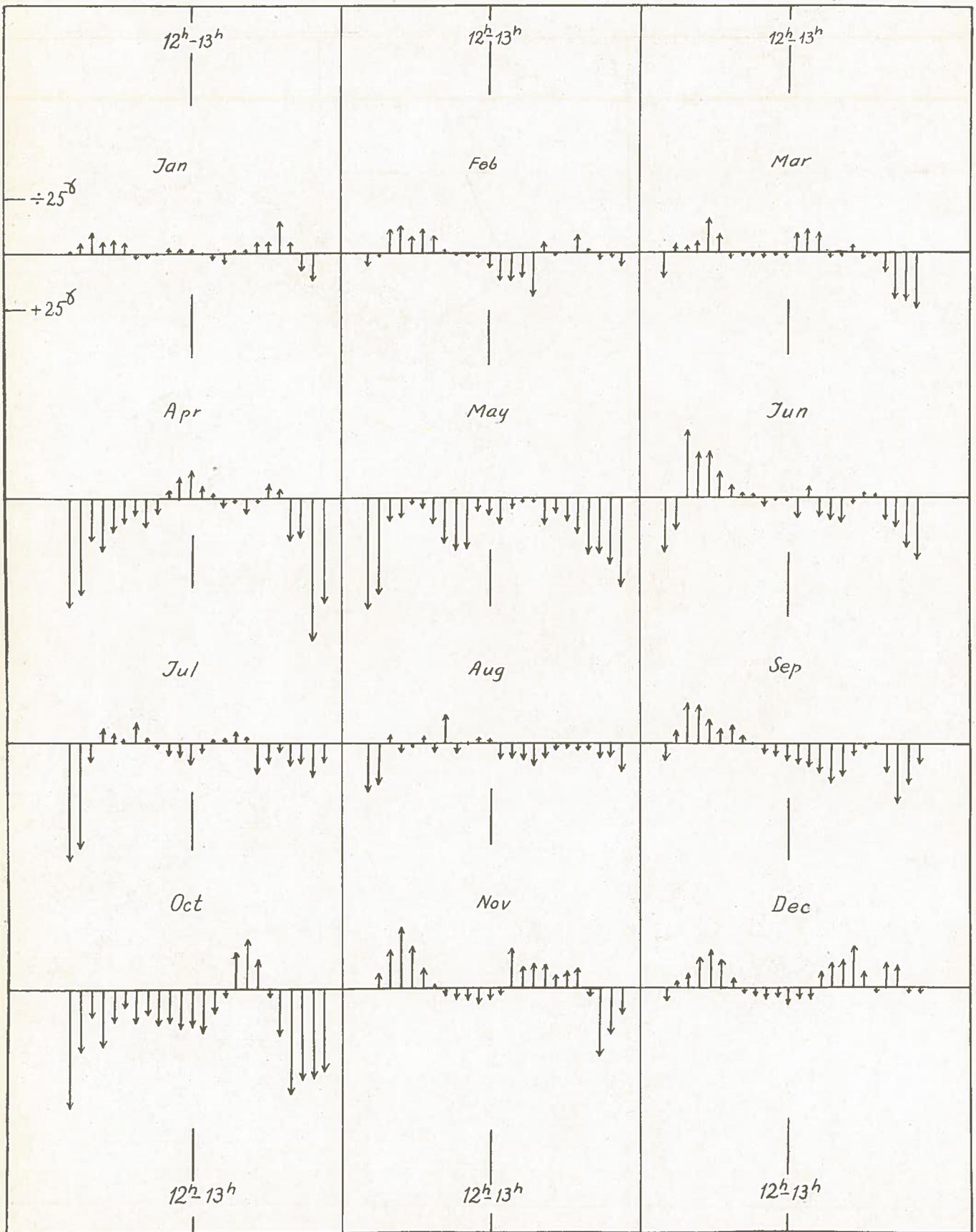


Fig. 4. Diagrams of the Monthly Mean Values (M) of the Storminess of the Vertical Intensity.

