

Publikasjoner fra  
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK  
Nr. 24

**THE AURORAL OBSERVATORY AT TROMSØ**

( $\varphi = 69^{\circ} 39'.8$  N,  $\lambda = 18^{\circ} 56'.6$  E. Gr.)

**RESULTS OF MAGNETIC OBSERVATIONS  
FOR THE YEAR 1942**

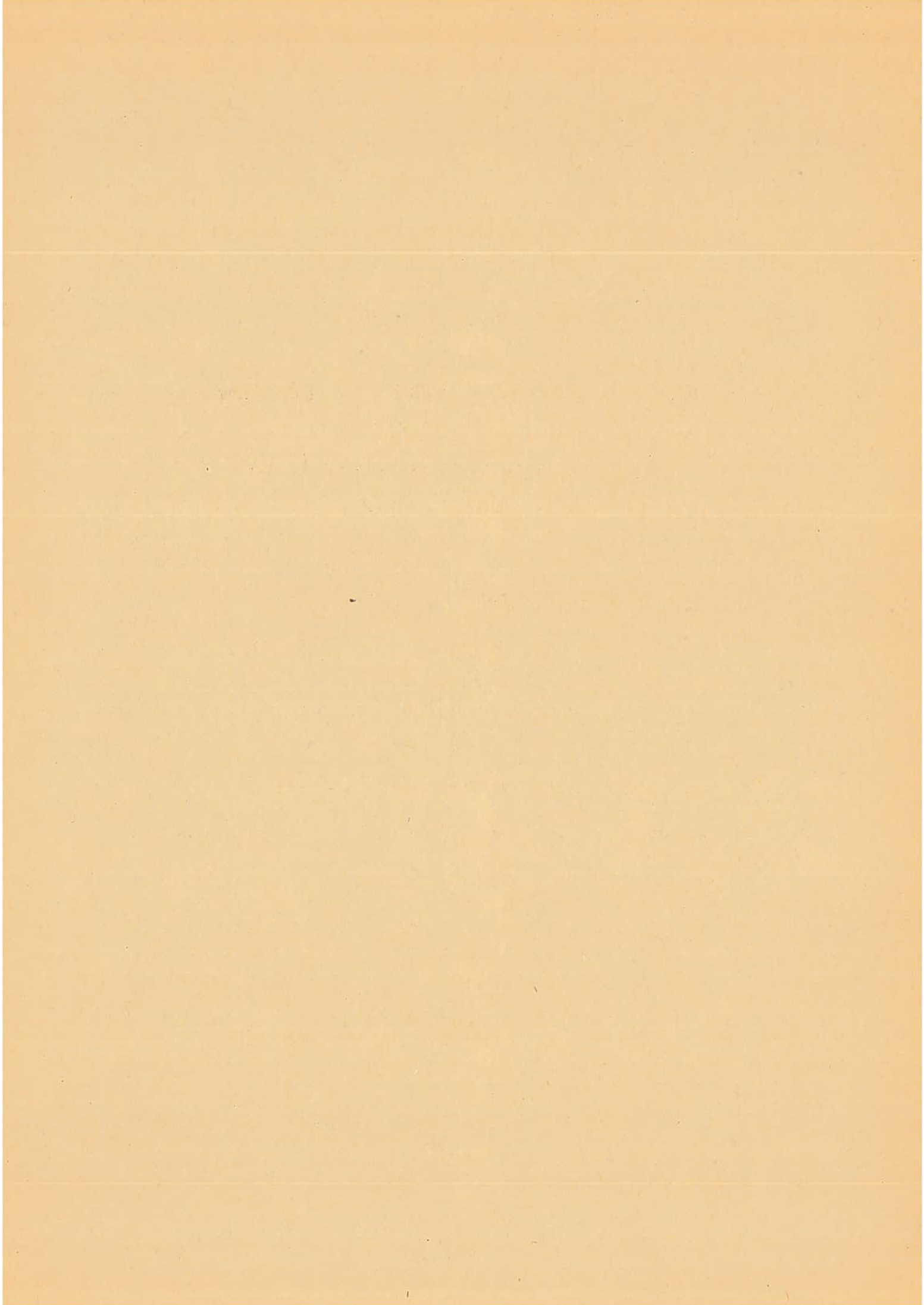
BY

**LEIV HARANG and E. TÖNSBERG**

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1944

**A.S JOHN GRIEGS BOKTRYKKERI, BERGEN**



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**RESULTS OF MAGNETIC OBSERVATIONS  
FOR THE YEAR 1942**

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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 publications.

The observations were taken by E. TÖNSBERG. The reading of the hourly values and the calculation work were performed by Mrs. ANNA JAKLIN, cand, real. KAARE LANGLO-OLSEN and student REIDULF BERG LARSEN.

**SCALE VALUES.**

The following scale-values were determined:

D-curves: 1'.45 or 4.75  $\gamma$  per mm.  
H-curves: ..... 5.10  $\gamma$  per mm.  
V-curves: ..... 6.80  $\gamma$  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 — 50220  $\gamma$  — from the preceding years is still employed, as we are trusting more to the stability of the V-variometer than to the accuracy of the Inclination measurements. The mean Inclination value throughout the year is  $77^{\circ} 24'.6$ .

The temperature coefficient for the H-variometer is 7.3  $\gamma$  per degree Celcius, and for the V-variometer — 1.3  $\gamma$  per degree Celcius.

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

Date	$D$ observed	$D$ adopted	$H$ observed	$H$ adopted
II. 14	2° 16'.7 W	2° 16'.7 W	11169 $\gamma$	11169 $\gamma$
III. 26	16.4	.7	65	69
IV. 11	16.7	.7	65	69
30	16.6	.7	71	69
V. 9	16.8	.7	67	69
27	16.4	.7	70	69
VI. 18	16.6	.7	68	69
VII. 8	16.7	.7	69	69
IX. 10	16.4	.7	69	69
X. 12	16.8	.7	70	69
XI. 11	16.9	.7	71	69
XII. 4	16.5	.7	67	69

## 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 centered 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  $QM$  gives the monthly means of the *quiet* hourly values.

The second series of the 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 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  $CH$  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 we will use that quantity for defining the character numbers. Only the strongest perturbed component, the Horizontal Intensity, is used in characterisation. Character number 0 comprises diurnal sum of the absolute storminess ( $AS$ ) up to 400  $\gamma$ , character number 1 from 400  $\gamma$  to 1200  $\gamma$  and character number 2 greater than 1200  $\gamma$ . 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. HOURLY MEAN VALUES

Gr. M. T.

JANUARY 1942.

Table for January 1942 showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and summary rows M and QM.

FEBRUARY

Table for February showing hourly mean values for declination. Columns include Day (1-28), hours (1-24), and summary rows M and QM.

MARCH

Table for March showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and summary rows M and QM.



Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1942.

HOURLY MEAN VALUES

Table for January 1942 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, MFS, and MNS.

FEBRUARY

Table for February showing hourly mean values for declination and storminess. Columns include Day (1-28), M, PS, NS, AS, and summary rows for M, PS, NS, AS, MFS, and MNS.

MARCH

Table for March 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, MFS, and MNS.

Tromsø.  
APRIL 1942.

Declination.  $D = 2^\circ W +$  Tabular Quantities expressed in Tenths of Minutes.  
HOURLY MEAN VALUES

Gr. M. T.

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	100	0	70	90	120	90	120	150	180	210	240	260	140	180	120	120	140	150	90	130	150	150	170	350	
2	150	150	150	130	120	120	110	110	130	150	220	210	180	290	330	340	420	380	330	360	40	-80	-90	170	1030	
3	40	40	60	110	-150	230	90	80	100	160	200	230	240	270	160	220	170	140	120	190	200	160	60	-10	130	910
4	-120	-180	-360	-60	80	70	-60	150	270	150	30	-150	300	440	440	500	360	530	390	270	200	210	60	90	150	1450
5	-10	40	60	60	60	60	70	90	90	110	130	190	210	160	230	190	150	120	150	140	120	90	90	10	108	360
6	0	90	40	50	110	90	90	60	70	120	130	150	180	180	150	130	120	130	140	90	60	40	60	100	290	
7	60	60	90	90	90	90	120	120	120	120	140	180	190	200	170	150	150	140	140	130	110	30	-20	114	330	
8	-30	-50	-450	-480	-30	90	120	120	140	240	200	210	240	290	310	260	240	200	-120	20	60	110	100	80	2310	
9	60	20	70	80	80	80	90	120	120	130	150	170	220	220	200	90	120	180	180	160	90	50	90	120	117	590
10	110	100	90	90	80	80	80	90	90	120	150	170	180	170	150	150	160	160	160	170	150	50	-200	110	690	
11	-360	-120	-390	60	-360	-110	50	40	20	140	130	90	90	180	240	300	220	200	200	170	90	0	90	110	42	2210
12	100	120	100	90	90	90	90	90	110	150	180	200	200	190	210	220	170	170	150	140	120	120	90	135	450	
13	-10	110	80	60	60	60	100	110	120	140	150	190	210	300	300	360	150	290	120	140	90	-10	-180	-300	108	2610
14	-750	-450	-200	-200	70	90	90	30	70	90	140	210	220	210	200	170	160	150	150	150	180	120	120	45	2750	
15	100	100	90	80	70	60	50	50	90	120	150	200	190	180	170	160	150	150	150	180	120	110	90	120	830	
16	120	60	90	-10	10	10	40	70	120	200	210	220	240	200	180	160	180	250	290	330	300	30	-30	-70	132	1100
17	-150	-360	-540	-340	-120	20	80	120	80	120	90	270	250	330	360	280	280	330	340	290	280	240	150	-90	96	1990
18	20	-170	-50	20	80	100	90	150	150	130	140	200	210	200	420	330	330	330	120	290	240	120	120	-150	140	1590
19	-250	-210	-290	-240	40	80	130	120	100	110	80	240	200	200	180	180	260	270	200	120	90	90	60	80	1290	
20	-80	-80	10	60	60	60	60	70	80	120	160	210	220	250	210	240	230	160	210	150	150	140	80	70	120	480
21	100	110	90	90	80	70	70	90	110	140	170	190	200	200	190	170	150	150	200	170	150	120	120	132	240	
22	110	120	110	90	70	70	70	80	90	130	180	210	230	220	210	170	160	150	150	150	150	130	130	135	170	
23	120	120	110	80	50	60	70	60	90	150	200	210	230	240	340	370	330	180	270	270	140	180	-20	165	1160	
24	-140	-390	-10	90	90	110	150	120	150	150	180	210	220	200	180	150	150	180	160	150	120	110	120	108	1460	
25	100	80	60	40	30	40	50	70	110	150	180	190	180	170	150	140	130	140	150	150	150	130	120	117	190	
26	110	100	60	40	30	40	30	40	70	90	120	150	160	180	150	140	150	150	150	150	150	150	130	114	240	
27	120	110	90	80	80	80	90	120	130	180	200	200	210	200	210	290	330	430	400	370	210	90	140	150	183	710
28	-390	0	-120	-10	-40	20	40	100	140	160	180	180	180	180	140	150	150	150	150	150	130	220	20	84	2310	
29	30	70																							66	520
30	10	50	40	50	60	80	90	110	130	150	180	200	220	210	300	300	270	260	260	260	160	150	130	80	156	490
M	-24	-10	-33	10	33	66	75	93	110	138	156	180	205	225	225	220	200	210	190	166	150	110	84	27	120	1020
QM	105	96	81	66	54	51	60	75	96	120	144	165	174	171	162	150	147	150	150	144	138	129	120	114	120	

MAY

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	90	-20	-110	-180	-70	80	50	30	150	150	200	220	200	220	240	200	180	190	180	180	170	120	90	90	108	650
2	90	80	70	60	50	40	90	120	150	160	150	160	200	270	300	330	370	340	300	270	150	80	80	174	1080	
3	-60	-140	-180	40	80	120	120	130	150	160	180	210	200	210	200	180	150	180	180	90	20	30	108	850		
4	80	60	30	30	90	90	90	100	150	180	190	210	220	230	230	380	370	370	330	300	40	40	-240	-210	138	1320
5	-210	-220	-540	-570	-180	140	120	150	180	180	210	220	220	250	200	180	190	150	200	180	180	200	0	-50	57	1370
6	-140	-300	-240	-120	-40	60	90	120	140	140	190	210	230	230	220	200	180	150	150	170	150	140	120	93	800	
7	120	110	90	60	70	70	70	80	120	130	180	180	180	180	180	170	170	180	180	170	150	130	100	135	170	
8	80	80	40	60	90	80	70	80	110	140	170	200	240	240	210	200	190	180	180	160	160	100	90	135	230	
9	100	90	80	60	60	60	60	90	120	140	150	160	180	180	170	160	150	150	150	150	130	120	110	120	160	
10	120	70	50	40	80	50	80	90	120	140	180	210	230	190	180	170	170	160	160	150	150	150	170	135	240	
11	-80	60	60	60	80	90	120	120	150	180	190	200	200	190	190	180	150	160	160	150	150	130	120	120	126	370
12	120	100	80	70	60	60	60	90	120	150	180	180	190	170	150	130	180	210	210	220	160	150	80	50	132	350
13	0	40	60	50	50	50	60	90	100	120	160	180	180	160	140	140	150	150	150	150	150	170	117	240		
14	90	50	60	50	20	50	-10	230	130	120	220	240	240	240	260	220	200	200	180	180	120	80	90	144	410	
15	70	60	50	20	90	60	70	70	90	130	180	200	210	210	210	200	180	180	190	200	200	50	-10	123	430	
16	20	40	40	30	50	60	40	60	90	120	180	210	200	200	190	200	210	210	220	150	80	90	80	80	123	460
17	20	40	80	90	90	90	90	90	90	130	160	190	210	220	240	240	240	250	240	230	140	130	90	50	140	370
18	0	-120	-20	70	70	90	90	100	130	160	190	220	230	210	200	200	210	220	210	210	220	80	20	80	130	540
19	70	60	60	60	60	30	30	60	100	150	180	200	200	210	180	180	170	180	150	160	150	100	80	123	210	
20	90	90	80	60	50	20	40	70	120	150	200	200	200	210	240	270	270	270	190	200	210	160	30	140	970	
21	60	-10	-180	50	60	50	70	90	120	150	180	210	220	230	240	190	240	210	210	190	150	150	80	10	120	620
22	60	80	90	50	50	60	10	60	200	180	180	180	190	190	190	200	270	440	350	210	110	60	150	60	150	1000
23	20	-20	50	40	50	70	80	90	120	160	160	160	180	180	180	200	180	210	240	180	180	90	0	20	102	540
24	20	40	40	50	90	80	50	80	80	120	150	180	200	210	180	210	180	200	190	120	120	50	-40	114	590	
25	-60	60	70	70	70	70	80	100	130	160	200	200														

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

APRIL 1942.

HOURLY MEAN VALUES

Table for April 1942 showing hourly mean values for declination and storminess. Columns include Day (1-30), 24 hours of values, and summary statistics (M, PS, NS, AS).

MAY

Table for May showing hourly mean values for declination and storminess. Columns include Day (1-31), 24 hours of values, and summary statistics (M, PS, NS, AS).

JUNE

Table for June showing hourly mean values for declination and storminess. Columns include Day (1-30), 24 hours of values, and summary statistics (M, PS, NS, AS).

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

Gr. M. T.

JULY 1942.

HOURLY MEAN VALUES

Table for July 1942 showing hourly mean values for declination D = 2° W. Columns include Day (1-31), hours (1-24), and monthly totals (M, R).

AUGUST

Table for August showing hourly mean values for declination D = 2° W. Columns include Day (1-31), hours (1-24), and monthly totals (M, R).

SEPTEMBER

Table for September showing hourly mean values for declination D = 2° W. Columns include Day (1-30), hours (1-24), and monthly totals (M, R).

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JULY 1942.

HOURLY MEAN VALUES

Table for July 1942 showing hourly mean values for declination and storminess. Columns include Day (1-31), hours (1-23), and summary statistics (M, PS, NS, AS). Rows show daily values and monthly totals.

AUGUST

Table for August showing hourly mean values for declination and storminess. Columns include Day (1-31), hours (1-23), and summary statistics (M, PS, NS, AS). Rows show daily values and monthly totals.

SEPTEMBER

Table for September showing hourly mean values for declination and storminess. Columns include Day (1-30), hours (1-23), and summary statistics (M, PS, NS, AS). Rows show daily values and monthly totals.

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

Gr. M. T.

OCTOBER 1942.

HOURLY MEAN VALUES

Table for October 1942 showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and values for M and R.

NOVEMBER

Table for November showing hourly mean values for declination. Columns include Day (1-30), hours (1-24), and values for M and R.

DECEMBER

Table for December showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and values for M and R.

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

OCTOBER 1942.

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	PS	NS	AS	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-5	-3	0	5	0	-15	-20	-55	-4	5	98	103		
2	0	-3	-30	-7	0	5	7	15	13	5	27	33	42	50	73	65	67	107	33	55	70	-90	-45	-63	-18	667	228	895
3	-52	-95	-200	-27	-33	20	20	25	33	17	10	0	12	15	-5	37	-8	18	45	5	-30	-5	-100	-12	257	555	812	
4	-47	-95	-43	-10	-25	17	23	10	3	15	5	13	-8	-15	3	-27	-13	-3	43	45	32	0	-80	-108	-11	209	474	683
5	-142	-85	-68	-70	5	15	0	15	3	10	7	-7	7	12	-37	27	-10	-13	5	5	-15	-32	-45	-63	-20	109	584	693
6	-72	-15	0	3	0	0	0	0	0	0	-7	0	0	0	0	0	0	0	5	15	-10	-45	-52	-60	-10	28	261	289
7	-82	-125	-150	-27	-13	3	10	20	20	12	10	8	15	35	28	-5	12	17	18	45	-5	-25	-30	-110	-12	253	552	805
8	-37	-27	-10	3	0	0	0	0	0	0	7	8	12	5	5	7	22	3	-5	12	-20	-20	-33	-3	89	152	241	
9	-47	-60	-25	0	-5	-5	5	10	10	8	10	10	17	25	25	22	20	10	0	0	0	0	0	0	2	194	142	336
10	0	0	0	0	0	0	0	0	0	0	0	7	12	13	15	15	10	10	5	-0	-15	-65	-15	0	87	95	182	
11	-15	-10	0	0	0	0	0	0	0	0	15	15	22	25	35	25	27	15	55	-30	-10	0	22	7	236	65	301	
12	-27	-45	-100	-47	12	0	-7	-3	-7	0	-25	8	-8	30	30	32	40	0	8	-5	-5	-5	13	-3	211	279	490	
13	-47	-115	-103	-37	0	0	0	3	0	0	-5	15	25	35	-15	32	-23	33	8	-5	-35	40	25	-6	238	385	623	
14	-72	-70	0	-27	-3	5	5	0	0	0	0	-5	-12	13	-100	10	15	-52	-60	-95	-150	-105	-33	-32	43	809	852	
15	-58	-27	15	-30	17	-15	40	5	3	-5	5	8	7	25	23	15	7	-13	-172	0	-5	-10	-35	-33	-9	170	377	547
16	-77	-145	-28	-25	-3	0	3	15	5	0	5	3	17	-30	8	-15	-28	12	93	-35	-30	-8	-32	-23	-13	159	479	638
17	-32	-10	-5	-5	-5	17	13	25	15	8	5	5	10	10	10	-8	-5	5	-15	-40	-10	-42	-15	-2	133	192	325	
18	-15	-13	-38	-22	8	0	5	10	13	2	10	3	8	2	23	15	-23	-63	-22	-15	-5	5	-35	13	-7	96	272	368
19	-92	-115	-68	-22	-43	-5	15	25	13	12	10	20	7	-5	65	10	-3	7	-27	15	5	0	-18	-3	-11	192	461	653
20	-32	-25	-8	-10	-8	-15	-3	3	8	2	15	8	-28	18	-107	-75	7	15	-12	5	-15	-8	-8	0	-11	81	354	435
21	0	0	0	0	0	0	0	0	-5	0	0	0	-10	-15	20	-58	7	0	0	-5	0	-12	-10	-4	27	115	142	
22	-7	-15	-15	-7	2	-3	-5	-3	-2	0	7	5	-3	-10	-7	-5	0	0	-5	-8	-5	-15	-8	-10	-5	14	133	147
23	-17	-7	-3	0	0	0	0	0	0	8	17	16	30	22	3	-3	7	12	10	5	0	-5	-8	-10	-5	130	63	193
24	0	-5	0	0	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-20	-22	-5	-2	0	57	57	87
25	0	-3	-10	-7	17	27	30	30	38	20	7	20	7	15	18	17	12	10	0	5	0	-22	-28	8	273	70	343	
26	-15	-17	-18	-12	-13	5	7	0	0	0	-5	-7	-8	-7	-5	0	0	0	0	35	35	-42	-33	-4	32	182	264	343
27	-57	-30	-35	0	0	0	0	0	0	-5	-7	-12	-8	-8	0	-15	0	6	0	5	-15	-12	-5	-8	11	209	220	220
28	0	0	0	0	0	0	0	0	0	0	7	18	42	45	38	65	165	127	100	15	-10	-280	-140	-180	3	622	590	1172
29	-207	-55	-103	-57	-18	-15	-45	-55	18	5	-55	-92	7	10	13	10	-43	-58	28	-30	-90	-40	60	-3	-33	151	946	1097
30	-200	-100	-78	-27	17	3	15	20	0	-20	-10	-8	-13	-20	-12	17	17	-13	32	-63	-15	-18	-18	-18	246	674	920	
31	-137	-65	-23	-37	-17	0	-5	3	5	0	0	0	28	-22	-20	-23	7	18	0	10	-35	-10	-15	-17	71	470	541	
M	-50	-44	-38	-18	-4	1	4	6	6	3	2	3	6	9	6	3	8	9	8	1	-6	-27	-25	-32	-7	164	332	496
MPS	0	0	0	0	2	4	6	8	6	4	5	7	9	13	15	12	16	15	18	10	6	2	4	2				
MNS	50	44	38	18	6	2	2	2	2	1	4	4	3	4	8	9	7	6	6	9	12	30	30	34				

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	PS	NS	AS	
1	-27	-5	2	3	0	20	15	10	5	15	8	-13	0	0	0	-40	-10	0	0	-5	-18	-22	-27	-4	76	167	243	
2	-43	-13	-15	-5	-10	17	5	10	0	0	0	8	30	48	-60	-20	55	35	-28	-10	-30	-17	-75	-2	208	326	534	
3	-35	-40	-10	0	8	7	3	3	0	3	7	10	27	8	30	20	20	12	5	-20	-38	-17	-47	-2	166	207	373	
4	-13	0	0	0	0	0	0	-5	13	15	13	10	8	7	0	0	0	0	-30	20	-5	-27	-33	-1	96	113	209	
5	-37	-25	-13	-17	-5	-3	0	0	0	5	0	0	0	0	0	0	0	6	10	0	0	-12	-47	-5	30	159	189	
6	-55	-48	-53	-22	0	-5	-5	0	10	7	3	3	0	0	12	5	7	0	0	-5	-3	-37	-7	-8	47	240	287	
7	-5	-10	-8	-6	0	0	25	17	17	5	6	13	13	10	46	30	18	15	15	20	0	-3	0	5	9	255	31	286
8	-5	-15	-10	0	-7	-3	0	7	3	-3	13	15	25	15	20	28	23	20	12	8	-130	-43	0	0	-1	189	216	405
9	-55	-53	-10	-5	0	0	0	0	0	0	0	0	-5	-3	8	10	0	-10	10	0	-10	-15	-8	28	166	194		
10	0	-20	-10	0	0	0	3	5	3	0	5	7	-5	-15	0	35	35	15	12	5	0	-58	-42	-10	130	125	255	
11	-105	-58	-8	-25	-7	0	0	0	-7	0	0	7	-5	0	10	12	10	10	-20	-25	-12	-10	-48	-30	-13	49	360	409
12	-30	-18	-8	-7	13	15	10	5	0	-6	-7	-7	-7	-3	-42	-10	0	0	-18	0	-12	-28	-40	-55	-11	43	296	341
13	-43	-53	-23	-5	0	0	0	-5	5	0	5	8	35	28	35	15	20	0	-22	-50	12	-10	-35	-3	163	228	389	
14	-43	-13	-8	-12	8	7	13	25	3	5	10	0	-5	7	8	10	12	18	-60	-26	-15	-58	-35	-36	-8	126	312	438
15	-73	-33	-28	6	8	5	0	0	3	0	0	0	-5	0	3	-8	-5	10	0	40	-30	-25	-27	-5	-7	75	239	314
16	-90	-20	-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-32	-12	-8	-10	-3	-8	0	185	185
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	-10	-3	40	0	40	0	40
18	0	0	0	0	0	5	10	5	5	10	7	5	3	10	0	18	8	5	-40	-30	-8	-12	-5	-5	3	84	95	179
19	0	0	0	6	8	7	5	13	13	12	10	0	5	8	10	8	-10	13	-10	-15	-6	-5	-5	3	128	51	179	
20	-5	-18	0	3	10	22	20	15	15	15	8	5	43	45	35	35	30	45	-95	12	-10	-3	-42	-90	4	358	263	621
21	-37	5	-5	0	-5	0	5	5	15	5	8	0	-5	10	0	10	10	0	-20	-28	3	-10	-3	-10	-1	86	110	196
22	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-18	-10	-10	0	-8	-10	-3	-2	5	59	64
23	0	0	0	5	8	10	13	15	12	10	8	8	27	38	10	55	10	5	40	15	2	-52	-155	3	296	217	513	
24	-130	-150	-145	-102	18	-8	-35	5	-25	-43	8	7	-12	-45	-10	-10	-5	-55	-150	-110	-290	-28	-12	-45	-56	48	1400	1448
25	-50	-73	-12	-47	0	-5	10	-7	0	-6	-22	5	13	-5	-12	-80	-30	5	-10	-15	5	-23	-20	55	525	580	580	
26	-45	-43	-93	-172	0	-18	-10	0	-3	-7	-5	-7	-95	-32	0	10	-20	-10	20	-100	-33</							

Tromsø.  
JANUARY 1942.

Horizontal Intensity. H = 11200 + Tabular Quantities expressed in Gamma.  
HOURLY MEAN VALUES

Gr. M. T.

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	65	65	67	70	73	75	78	78	78	78	72	70	75	73	75	78	88	102	82	87	60	75	71	
2	59	65	68	70	70	85	85	75	70	85	85	70	65	120	190	160	215	165	-30	-60	-10	40	70	79	
3	95	140	90	65	60	-30	30	35	30	80	90	75	85	150	170	135	135	155	125	115	40	-5	-8	77	
4	-55	45	10	-25	-55	60	90	80	85	75	80	80	85	90	180	190	190	185	40	5	-35	-70	-220	-65	
5	35	-50	-70	-20	85	95	78	55	83	80	110	122	95	95	85	118	165	130	-160	-60	75	65	-40	-190	41
6	20	65	55	38	40	50	60	68	72	75	75	75	75	75	85	185	130	55	110	95	-35	-270	-240	41	
7	-80	45	55	65	70	75	88	77	70	68	68	60	95	88	80	85	80	70	82	72	35	50	67	62	64
8	42	50	70	75	70	70	70	68	68	65	68	70	70	70	70	70	70	70	70	70	70	70	68	62	67
9	88	48	72	70	72	78	75	70	70	70	70	72	72	72	75	95	85	80	82	82	70	5	-90	62	
10	105	5	75	80	75	70	70	70	70	68	68	70	75	75	88	112	165	135	95	72	40	-90	-105	50	52
11	45	-55	55	75	75	68	70	60	55	65	70	65	75	78	90	85	100	112	30	-20	-12	42	48	56	
12	35	55	45	60	65	65	63	62	60	55	60	65	65	68	65	72	80	95	90	100	-40	-25	45	38	56
13	42	45	60	60	60	60	60	55	50	52	55	52	60	58	65	68	72	72	70	40	40	45	45	56	
14	55	60	60	62	62	60	60	60	60	60	60	60	62	65	65	68	72	82	98	88	40	-150	-90	50	
15	55	75	72	68	65	62	62	70	68	60	70	80	85	105	170	230	135	78	78	75	92	10	55	25	61
16	5	35	38	65	68	70	68	65	65	62	55	60	105	138	188	185	208	200	155	90	-20	18	48	15	77
17	-40	-140	25	50	72	68	42	42	48	85	125	102	72	80	92	72	52	50	55	60	60	60	60	60	53
18	45	-70	-90	-70	35	40	58	55	48	50	55	62	62	62	65	62	60	58	72	85	25	-100	-240	-55	16
19	-75	-82	-25	40	-25	-30	32	60	60	60	58	72	75	68	62	70	78	65	65	70	68	48	0	-48	33
20	-30	-25	65	68	65	65	60	60	58	58	58	58	60	60	62	65	65	65	65	65	65	50	-15	52	49
21	68	65	65	65	65	65	62	62	62	65	65	65	65	65	68	68	68	75	105	95	82	102	70	68	71
22	70	68	62	55	45	60	65	75	68	62	60	68	75	105	170	188	185	152	125	60	5	-45	-100	-140	83
23	-135	-35	35	62	78	90	80	70	65	65	65	68	75	95	108	135	95	75	85	65	65	62	5	59	
24	25	48	60	70	70	70	70	70	70	70	70	70	75	78	78	78	82	90	110	122	75	85	102	65	53
25	45	72	70	70	70	70	70	70	70	70	70	70	75	78	78	78	82	90	110	122	75	85	102	65	77
26	35	40	62	80	80	88	80	75	68	62	60	65	70	70	70	70	72	72	80	92	120	90	80	72	73
27	65	65	62	65	65	65	62	62	60	55	60	60	70	72	70	73	102	125	100	95	88	70	60	-30	68
28	-42	10	-70	25	42	68	55	58	75	78	60	72	88	110	92	112	85	72	68	72	-10	52	45	60	53
29	48	62	62	62	62	62	62	62	60	60	60	60	62	68	70	78	92	122	122	60	35	10	-20	41	230
30	25	30	68	70	70	70	70	70	65	62	70	73	70	75	82	135	160	118	85	88	95	65	68	77	
31	65	70	65	65	65	65	65	62	60	60	60	60	62	65	68	70	72	72	70	70	68	65	62	65	81
M	14	29	43	55	58	63	64	65	65	63	68	70	73	78	90	103	104	101	82	70	51	30	-5	-1	60
QM	63	64	65	66	67	68	68	68	67	66	65	65	66	67	68	69	70	70	70	68	66	64	62	67	67

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	62	63	65	65	65	65	65	65	65	63	60	62	65	68	68	70	75	80	75	78	50	40	45	-5	61
2	25	45	50	55	65	60	60	50	42	45	100	65	73	55	120	120	120	115	72	65	55	48	38	2	65
3	22	30	42	55	38	58	55	45	50	48	50	50	52	55	55	60	60	62	65	58	55	40	45	50	51
4	50	58	58	58	55	55	52	50	48	45	48	50	50	50	60	58	60	58	65	75	72	60	55	50	56
5	30	55	55	52	42	25	25	35	70	72	125	145	185	165	135	122	80	-220	80	75	65	60	28	64	
6	32	-40	-205	-55	10	60	60	55	50	50	75	140	130	110	115	135	40	75	-115	-25	-200	-210	-160	15	5
7	10	-100	-115	40	90	80	70	72	65	75	75	65	75	65	65	65	62	62	60	58	45	42	25	47	
8	40	50	50	55	68	58	55	50	50	50	50	50	58	60	58	55	55	58	60	58	15	-55	47	190	
9	45	55	56	52	55	52	52	50	42	38	50	55	58	62	72	65	55	55	62	50	55	58	58	54	
10	58	60	58	58	55	52	50	50	52	55	55	65	85	70	62	102	75	90	85	40	25	42	-90	54	
11	15	60	75	65	68	52	45	50	52	58	60	60	70	80	80	82	125	178	145	102	35	82	45	2	
12	60	42	90	72	78	65	58	52	52	55	55	60	60	60	60	60	60	60	60	60	70	70	65	60	62
13	35	45	40	48	70	70	68	60	55	55	55	68	60	65	65	70	68	70	72	75	70	65	65	61	
14	63	65	65	68	68	68	65	63	60	60	58	58	50	62	75	112	75	60	60	58	58	0	-135	-225	42
15	-235	-70	45	82	60	72	38	62	60	50	62	68	70	75	68	65	70	90	-20	50	75	35	10	-60	54
16	-30	-45	50	55	58	50	58	58	40	50	58	60	55	58	62	78	62	60	60	70	55	-25	-75	60	42
17	62	30	-100	-40	25	50	48	45	40	40	40	45	48	42	40	40	38	40	40	42	22	40	38	32	225
18	32	30	20	35	28	35	28	23	22	25	30	32	32	32	32	32	32	32	32	32	32	32	32	30	80
19	30	30	30	30	32	32	30	28	28	28	28	30	35	42	40	38	38	38	38	38	32	-5	15	31	
20	30	35	32	35	38	45	38	35	28	25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	44
21	-95	25	-25	-25	-15	35	42	38	28	40	38	35	32	25	25	32	33	42	45	45	50	38	80	-22	80
22	-72	-75	-10	32	28	35	32	30	28	32	35	50	40	50	60	75	20	-15	20	-10	130	10	-10	31	
23	-150	-90	15	2	60	50	50	45	38	40	40	58	100	130	45	95	80	-100	-80	-200	-310	-45	-5	560	
24	10	-150	-250	-80	25	60	70	60	90	85	85	60	75	90	120	148	125	128	125	100	-5	-90	-110	36	
25	-200	-220	-185	10	62	58	60	60	58	62	60	58	62	62	65	100	128	105	85	-180	-80	-75	-210	-3	515
26	-75	60	60	60	58	70	75	70	68	60	60	62	68	68	70	75	88	95	80	68	45	-150	-140	44	
27	-20	62	65	52	45	75	72	65	62	62	62	68	70	72	95	120	165	100	35	40	38	10	-100	68	
28	-140	-15	12	-40	75	72	65	68	75	45	62	25	162	255	212	175	145	20	-2	-60	-105	-150	-30	39	
M	-10	3	5	32	48	56	54	52	50	51	54	59	60	69	78	78	80	82	50	55	27	12	-16	-26	40
QM	60	60	61	62	60	68	66	65	64	63	63														



Tromsø.

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

Gr. M. T.

JANUARY 1942.

HOURLY MEAN VALUES

Table for January 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS, CH).

FEBRUARY

Table for February showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-28), hours (1-24), and summary statistics (M, PS, NS, AS, CH).

MARCH

Table for March showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS, CH).

Tromsø.

Horizontal Intensity. H = 11200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1942.

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	65	68	15	45	82	80	78	65	52	50	45	50	57	65	35	58	65	72	80	65	45	70	72	70	61	184	
2	70	68	70	70	70	75	70	55	52	68	125	185	215	350	300	210	150	115	58	-25	12	-120	-145	-135	82	765	
3	-150	45	32	-10	-330	-290	-90	-10	20	32	75	102	65	115	200	150	60	55	60	50	-10	-52	-285	-20	-4	715	
4	-105	-215	-210	40	100	70	-72	-60	65	82	210	280	320	275	275	170	18	-80	-130	-140	170	-55	-60	42	27	845	
5	-75	2	48	50	30	48	60	62	58	52	100	68	95	180	165	125	105	100	105	58	55	32	-130	-132	53	403	
6	-60	-5	50	32	50	65	68	60	52	48	48	50	72	88	60	65	60	65	72	75	60	-100	-20	-5	40	325	
7	-5	48	75	70	70	65	60	55	48	45	45	75	82	78	75	75	70	70	70	72	45	-40	-90	51	245		
8	-55	-85	-550	-270	45	105	100	70	50	45	48	60	70	138	200	240	200	90	-60	-60	-30	35	55	45	21	1125	
9	12	-10	62	75	75	68	70	55	68	55	70	65	112	105	132	155	110	92	85	75	50	-135	-25	60	62	465	
10	70	72	72	70	70	68	65	55	48	42	42	42	55	65	60	72	75	62	85	90	88	60	-30	-290	49	530	
11	-210	-360	-260	-385	-220	-30	70	75	62	170	150	250	315	345	305	265	145	60	50	58	25	-65	45	70	38	975	
12	68	68	68	70	66	62	52	45	42	32	55	45	52	72	110	150	112	125	98	50	35	35	30	-15	62	345	
13	-100	62	72	72	70	65	52	50	45	35	40	25	50	200	315	240	155	90	-150	15	-250	-235	-270	-550	4	1620	
14	-410	-420	-90	-20	120	85	70	65	55	70	55	60	62	75	62	85	82	60	80	80	75	70	65	23	465	23	465
15	65	65	68	68	65	60	55	48	40	35	35	55	50	62	75	80	85	92	98	100	62	45	35	48	62	137	
16	72	38	-25	30	30	45	35	35	68	120	70	70	72	75	80	75	128	175	85	20	-65	-270	-210	-150	25	627	
17	-170	-390	-200	-230	-60	85	-35	45	75	120	240	172	120	145	255	220	315	225	170	120	-30	5	-120	-255	35	775	
18	-90	-75	-15	45	82	0	-5	-30	55	70	180	215	320	355	355	250	200	50	-500	50	-5	-105	-240	-350	35	1130	
19	-340	-205	-130	-160	25	72	45	45	65	80	108	100	95	130	92	80	90	165	110	-30	-25	15	40	-30	18	725	
20	-160	-180	-50	35	55	65	65	60	60	42	52	65	140	190	72	135	175	120	78	70	40	-30	-35	-35	44	475	
21	50	70	65	70	70	70	65	55	45	38	30	40	55	62	68	75	80	80	80	80	80	55	55	65	70	66	143
22	62	55	50	50	70	62	50	40	30	28	30	40	55	62	68	75	80	80	80	80	80	80	75	75	60	66	66
23	75	75	80	78	80	65	65	50	50	52	88	300	230	190	280	250	90	-150	-170	35	80	30	-330	71	855	60	66
24	-280	-380	-100	60	75	70	65	50	30	52	75	60	85	125	140	125	120	188	75	-10	15	45	35	65	30	695	
25	70	70	70	70	68	58	48	35	30	28	28	35	45	58	65	78	88	105	100	80	72	70	72	63	92	30	925
26	70	65	58	48	50	58	60	55	45	40	42	38	48	60	80	70	70	90	95	50	78	72	65	63	92	63	92
27	75	78	75	72	65	60	52	48	42	40	45	72	80	90	160	230	220	210	70	50	40	5	45	-70	77	682	
28	-550	-360	-130	10	15	60	62	48	45	52	50	70	70	120	175	105	82	72	65	72	60	45	-215	-75	-2	955	
29	-2	45																								367	667
30	-10	72	75	72	70	68	62	60	55	50	50	75	145	138	220	260	220	155	20	85	50	50	30	42	86	413	
M	-65	-54	-23	8	36	50	47	45	51	58	77	87	111	140	151	143	183	98	56	39	19	-6	-40	-60	45	587	
QM	70	70	72	71	69	65	60	52	45	38	36	38	45	56	64	70	75	80	80	78	78	76	74	72	64		

MAY.

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	72	20	-135	-80	-15	-20	-2	-5	30	65	82	88	100	95	115	105	90	90	90	82	40	25	18	45	40	357
2	65	70	70	70	52	50	30	30	40	65	75	125	185	270	315	320	315	225	170	120	-25	-35	-25	-112	99	570
3	-68	-110	-80	55	40	60	75	50	40	52	95	95	48	50	70	82	95	90	82	65	15	-100	-75	32	315	570
4	55	70	50	32	72	65	60	55	50	52	60	70	95	135	225	180	120	-30	50	-150	-150	-180	-125	39	570	910
5	-185	-500	-360	-280	-160	-30	40	50	45	88	105	75	130	155	85	75	80	120	122	90	80	-120	-160	-210	-29	910
6	-245	-235	-120	-28	45	80	70	58	48	38	50	68	55	70	90	90	110	112	98	100	85	70	70	70	35	460
7	70	72	70	70	65	65	55	68	58	50	65	85	75	75	80	85	95	110	100	90	88	42	48	73	107	73
8	58	70	75	80	65	70	68	60	52	50	50	55	65	60	85	105	125	122	110	105	92	85	65	65	77	112
9	82	80	80	80	75	70	65	60	55	50	52	45	45	62	72	78	82	88	92	90	82	70	68	75	70	50
10	75	58	25	18	50	70	70	60	58	55	48	70	72	75	82	85	75	75	80	82	82	88	98	62	88	127
11	-55	28	55	80	70	75	68	58	50	48	50	62	70	72	75	80	100	95	88	80	45	48	62	61	260	
12	72	72	75	78	75	70	60	55	52	48	42	50	68	70	85	90	135	165	140	90	45	2	-55	-65	63	265
13	-45	55	72	62	80	75	72	70	58	48	42	45	62	78	82	86	90	90	82	80	78	78	50	66	178	66
14	-25	75	100	105	95	60	-25	115	80	65	50	22	25	80	148	165	142	130	135	95	80	32	45	75	80	230
15	75	78	55	35	30	28	45	52	50	45	75	95	95	88	95	100	102	98	100	100	-40	-35	-30	-60	54	270
16	55	80	70	60	58	60	60	55	55	50	55	55	85	120	88	70	72	100	135	160	0	10	35	45	66	280
17	5	10	50	70	65	70	60	55	48	50	52	70	90	85	78	110	130	165	150	85	45	-8	-25	-20	61	240
18	-18	-135	0	75	70	68	58	55	48	45	50	38	60	65	82	135	122	120	100	100	20	-50	-70	20	44	325
19	45	62	62	80	80	72	65	52	50	40	65	80	85	76	80	92	105	110	105	90	55	20	65	70	163	70
20	82	82	80	75	70	60	50	42	42	40	45	52	45	58	80	125	172	190	115	105	120	55	-70	-25	71	475
21	60	-10	-175	25	78	80	75	65	62	55	65	65	42	100	162	210	160	110	108	92	80	65	-80	-60	50	510
22	30	58	70	80	78	75	62	48	40	52	40	42	60	65	85	145	135	160	100	-70	-190	12	-20	-60	45	607
23	-55	-70	45	75	75	80	78	68	58	55	50	75	100	100	112	125	110	120	110	90	70	-30	-100	-8	54	295
24	35	55	60	70	45	58	65	52	45	38	38	45	65	85	100	170	145	98	118	125	45	-45	-75	-175	53	490
25	-170	72	85	75	60	65	60	52	50	58	45	50	45	50	45	75	75	75	80	85	90	90	75	50	57	490
26	60	68	78	80	72	65	65	48	35	30	40	50	70	72	85	115	122	108	108	95	80	82	60	72	105	72
27	72	78	85	85																						

Tromsø.

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

Gr. M. T.

APRIL 1942.

HOURLY MEAN VALUES

Table for April 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, PS, NS, AS, CH). Rows show daily data and monthly totals.

MAY

Table for May 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS, CH). Rows show daily data and monthly totals.

JUNE

Table for June 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, PS, NS, AS, CH). Rows show daily data and monthly totals.

Tromsø.

Horizontal Intensity. H = 11200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1942.

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	-35	-70	40	80	72	40	30	-10	10	90	130	140	30	80	115	150	122	120	135	80	40	112	125	150	74	393
2	55	55	52	50	48	50	58	50	40	40	35	55	82	62	68	120	130	105	100	85	-40	-110	-28	30	51	403
3	42	62	70	75	72	60	55	48	48	45	45	50	60	62	70	86	90	88	72	65	65	70	68	65	82	408
4	60	62	62	70	68	60	60	55	55	40	42	35	45	50	60	68	78	82	82	82	78	70	45	55	61	492
5	75	75	72	72	70	70	62	50	40	32	38	65	85	85	85	72	90	80	102	100	100	50	55	25	67	138
6	-15	45	70	70	68	60	50	45	40	40	50	55	60	65	105	185	235	165	105	65	30	-20	-150	61	540	
7	-140	45	75	70	65	60	52	45	45	40	38	45	62	70	80	90	100	112	122	95	50	10	-30	54	350	
8	-72	-140	-175	-15	25	30	15	-2	25	100	390	160	170	240	185	120	85	90	122	55	-155	-95	-60	-150	40	615
9	-170	-280	-150	80	78	70	60	55	50	50	50	95	105	155	190	150	95	70	60	-50	-50	-120	-60	-120	40	815
10	-170	48	40	48	30	35	60	70	60	58	60	55	60	55	55	80	110	115	92	82	82	58	60	20	53	495
11	-40	-220	-45	60	50	-20	-190	-135	-55	60	140	260	430	360	240	240	235	140	115	-40	-110	-140	52	65	60	877
12	70	18	30	-12	-73	-50	55	70	45	80	130	250	125	50	42	50	50	45	50	85	128	70	35	-55	54	505
13	-110	-120	45	50	50	45	72	50	35	50	55	65	78	70	92	140	210	150	120	90	85	-10	-5	-65	51	510
14	40	10	-2	48	52	35	40	30	28	40	70	20	20	15	110	145	150	75	60	42	-120	-150	-110	-300	15	612
15	-130	40	50	-30	20	15	22	30	30	70	60	90	125	100	165	210	235	50	50	65	5	-95	-80	-110	40	637
16	-390	-255	-90	30	75	35	45	45	35	50	80	120	175	185	180	110	130	150	100	55	-20	-280	-140	-205	10	735
17	-200	-140	42	42	45	-35	28	35	25	35	85	110	110	60	80	95	110	170	130	105	72	48	18	-4	44	555
18	-32	-25	42	60	58	42	28	18	15	25	28	50	65	62	72	85	95	102	95	105	78	52	40	48	50	214
19	30	15	55	65	60	60	50	42	35	30	35	52	65	90	135	132										
20																										
21																										
22	-10	10	92	65	45	58	50	38	40	42	55	80	70	112	75	65	168	125	118	40	-40	-40	-200	-50	60	357
23	-170	-25	65	55	55	58	32	30	45	50	40	62	90	72	82	110	170	90	40	-10	15	-20	0	41	580	
24	22	-10	-15	-5	-12	30	65	65	55	50	38	35	45	55	82	135	125	102	145	-15	-90	-65	-130	-165	23	465
25	-135	-160	-58	-110	-160	-25	25	50	45	48	95	300	320	390	270	175	125	115	125	-90	-160	-25	-40	-250	36	877
26	-50	40	75	75	55	55	50	55	50	45	48	60	95	45	62	72	92	92	110	125	85	-110	-300	-320	25	555
27	-220	-210	-5	30	-70	55	45	82	65	55	48	190	290	140	108	115	205	155	60	35	0	2	-80	-440	28	1040
28	-190	-20	20	-10	-35	-5	50	45	60	58	85	120	180	125	92	50	105	145	130	-30	-200	-38	-20	-80	26	625
29	-130	-140	-30	65	68	50	40	52	60	40	48	60	65	75	60	70	95	80	82	75	70	50	20	-130	33	470
30	-275	-55	15	15	48	60	55	40	42	58	105	65	100	80	80	70	85	135	125	122	2	-22	-100	-150	29	575
31	-160	-125	45	68	68	52	62	52	42	42	52															
M	-84	-50	16	40	34	36	39	38	38	51	75	95	110	107	103	110	127	115	102	62	7	-19	-28	-80	43	523
QM	72	75	73	70	68	62	55	50	45	40	39	45	50	55	60	68	75	80	82	75	67	65	68	70	63	

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																										
2	52	52	70	60	58	52	50	48	35	35	30	38	48	75	115	115	120	130	125	40	-120	30	-68	-82	46	365
3	-180	-160	-120	50	52	60	55	48	45	36	50	65	85	115	150	140	95	110	95	35	-135	-135	-70	23	416	
4	30	48	70	68	45	48	50	55	52	50	45	42	50	55	70	82	80	92	110	92	60	25	10	57	250	
5	-5	20	25	52	60	55	58	50	40	28	30	40	62	78	80	75	78	82	95	80	45	-40	-30	-75	41	275
6	15	62	72	75	70	68	62	50	45	38	45	60	90	82	170	310	215	115	95	80	-5	-60	-95	-170	62	605
7	-60	-190	-130	70	60	80	20	20	40	50	45	70	75	80	85	100	118	125	82	85	-30	-300	-60	-5	16	683
8	62	40	80	60	72	60	55	55	50	50	38	48	50	70	72	62	62	75	70	60	78	50	-20	35	56	153
9	55	60	65	62	60	60	58	50	45	40	38	70	145	172	200	250	202	65	100	85	70	55	52	60	88	245
10	70	60	30	48	40	30	40	35	42	40	50	140	95	110	290	290	200	40	-260	-60	-125	-115	-30	46	885	
11	-50	20	85	25	60	15	35	40	80	72	70	140	130	102	92	90	110	95	92	82	60	55	42	-2	65	255
12	12	30	10	20	15	42	32	32	50	35	50	115	78	90	90	105	138	120	98	95	65	0	-70	-210	44	400
13	-130	-102	30	58	62	58	52	50	42	35	35	40	48	58	65	70	70	70	68	65	62	60	22	-120	32	265
14	-135	-70	35	65	60	55	48	42	35	38	40	50	75	80	70	65	60	60	65	68	68	48	30	48	42	265
15	52	48	50	58	58	52	48	45	40	38	50	45	60	68	72	85	80	95	135	160	30	35	50	40	63	260
16	-170	-240	-310	-210	-130	-150	25	75	60	50	70	50	70	95	100	128	215	180	220	50	-450	-160	-10	-190	-27	950
17	-355	-180	-55	40	-10	75	92	65	72	60	65	65	125	125	160	200	155	85	-35	-100	-105	-205	-35	19	715	
18	-45	-5	2	50	75	52	50	28	48	80	75	170	340	265	260	125	85	110	130		30	35	-100	680		
19	-180	-135	-65	-5	65	60	42	48	75	70	80	100	160	98	78	170	180	128	-150	40	-60	-300	-600	-330	-18	1150
20	-315	-190	-275	50	55	80	78	50	55	90	75	120	135	140	68	75	85	100	80	60	85	10	-80	-20	25	625
21	25	25	20	15	25	35	58	50	32	45	75	85	140	165	90	90	85	60	70	-60	-38	-110	-180	37	550	
22	-270	-52	20	55	15	18	40	50	30	42	45	60	52	55	58	75	72	88	78	72	70	-60	-430	-310	-4	755
23	-220	-165	-235	-140	45	70	62	42	55	40	75	65	230	220	260	220	95	100	-10	-280	-10	-5	-380	-220	-4	925
24	-30	-105	-60	10	20	70	45	50	48	60	70	85	72	75	100	135	165	130	-25	-250	-250	-400	-105	-120	-8	1060
25	-20	65	10	-25	-190	-30	45	85	90	40	65	60	100	82	100	122	125	95	65	85	-100	-110	28	-65	30	560
26	18	10	-20	40	40	50	60	58	32	35	42	55	72	82	82	80	130	100	105	-220	-280	-250	-225	-255	-7	610
27	-205	-70	45	68	90	55	55	40	50	90	150	128	160	105	85											

Tromsø. JULY 1942.

Horizontal Intensity. Storminess (+ N). Unit Gamma. HOURLY MEAN VALUES

Gr. M. T.

Table with columns for DAY (1-31), M, P5, NS, AS, CH. Rows contain hourly magnetic intensity and storminess data for July 1942.

AUGUST

Table with columns for DAY (1-31), M, P5, NS, AS, CH. Rows contain hourly magnetic intensity and storminess data for August 1942.

SEPTEMBER

Table with columns for DAY (1-30), M, P5, NS, AS, CH. Rows contain hourly magnetic intensity and storminess data for September 1942.

Tromsø. Horizontal Intensity. H = 11200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1942.

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	50	55	56	56	58	55	50	45	40	38	38	40	45	50	58	65	70	75	80	80	52	-2	-2	-70	45	352		
2	-135	-35	42	82	78	80	72	55	58	30	30	100	220	335	245	10	80	-135	30	-30	-500	-170	-70	-75	17	1480		
3	-130	-440	-350	-250	-380	40	15	70	15	50	105	180	145	215	210	245	120	-200	-350	-260	-110	-115	-320	-570	-89	1180		
4	-400	-80	-40	45	20	85	2	60	40	50	70	95	170	200	205	140	40	0	122	-60	10	-115	-320	-440	-4	980		
5	-195	-100	-90	-85	45	75	70	45	55	90	115	140	150	220	210	185	120	50	55	45	-30	-30	-120	-140	37	560		
6	-155	25	55	60	55	50	55	52	35	45	50	40	42	45	48	50	55	68	85	-70	-200	-115	-105	-105	13	440		
7	-190	-350	-230	12	55	60	75	50	40	40	50	60	100	195	185	165	122	122	115	2	-60	-40	-200	-230	6	530		
8	-2	15	35	59	65	70	65	60	50	45	35	50	60	85	75	80	125	40	-40	-18	-30	-18	-55	39	314			
9	-78	-116	0	68	68	62	55	50	38	36	38	55	42	70	62	85	100	125	110	72	62	45	40	50	47	306		
10	52	60	62	65	68	65	65	62	52	45	30	42	45	55	60	65	68	70	70	68	58	-40	-25	30	50	270		
11	50	48	52	55	58	56	52	48	45	35	32	45	45	60	85	110	122	108	90	58	-90	-20	60	55	53	455		
12	0	-60	-150	-40	45	80	75	72	54	78	120	180	280	115	102	180	130	-240	-70	125	45	45	-220	-480	20	1035		
13	-210	-190	-200	0	80	82	70	60	55	45	60	90	102	115	175	150	75	115	75	90	-80	-400	-570	-260	-20	985		
14	-100	-30	95	40	75	50	75	60	62	65	75	115	105	145	240	185	100	100	30	-250	-600	-420	-130	25	8	1410		
15	-5	-5	80	5	-100	45	35	55	55	80	70	62	80	180	165	180	128	100	-60	-110	-50	-200	-550	-290	-5	1315		
16	-190	-190	-15	50	70	58	80	55	50	65	80	85	170	130	70	100	105	110	-20	-110	-170	-2	-40	-75	21	700		
17	-50	10	35	55	10	38	70	48	50	48	60	85	70	90	110	115	125	160	150	10	10	15	-35	-30	-55	-60	46	445
18	52	35	-40	15	60	75	78	45	65	65	70	90	110	115	125	160	150	10	10	15	-35	-30	-55	-60	46	445		
19	-200	-240	-220	-35	20	60	125	75	75	65	70	180	260	240	270	110	135	-70	20	80	-35	-60	-15	30	39	330		
20	-30	-10	45	40	20	60	70	60	65	50	50	130	125	150	155	200	125	20	-100	-75	10	22	45	50	53	585		
21	42	48	50	50	48	50	55	55	48	45	42	48	68	110	82	165	160	162	92	80	55	35	8	25	68	270		
22	30	5	40	55	70	65	62	52	45	45	48	52	62	62	60	60	58	85	82	85	75	40	32	30	53	143		
23	5	52	58	62	62	65	58	48	28	45	48	52	62	60	50	60	72	115	100	105	90	55	40	-5	59	198		
24	50	50	50	60	60	60	58	50	45	42	45	50	52	55	58	60	62	65	65	60	70	15	30	52	83	153		
25	55	48	10	15	20	25	20	20	20	50	60	55	65	68	68	105	80	88	95	88	70	52	-5	0	49	204		
26	2	15	-55	-5	35	35	68	75	62	52	48	50	50	52	55	70	60	62	62	65	-150	-150	-5	-22	22	392		
27	-225	-175	-30	62	70	70	70	68	58	48	55	50	52	55	72	85	72	85	80	92	70	-100	-20	58	30	387		
28	60	52	60	62	62	62	60	58	55	48	40	60	150	250	220	-100	-170	-210	20	-75	-80	-800	-400	-380	-37	1370		
29	-420	-45	-110	-130	-20	40	90	5	45	105	200	80	270	160	175	135	-40	-80	-200	-450	-420	-350	-310	-340	-67	1250		
30	-310	-85	-140	-90	25	0	140	85	75	125	120	130	250	210	225	50	40	-160										
31													175	275	155	142	130	-30										
M	-85	-55	-28	15	30	57	64	55	50	55	65	81	121	125	125	109	82	26	20	-3	-63	-107	-118	-110	22	666		
QM	52	54	56	58	60	60	58	50	45	42	40	42	45	50	55	60	63	65	65	62	60	58	55	50	54	54	54	

NOVEMBER.

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	0	35	58	52	60	50	30	80	45	85	80	105	138	72	98	80	90	75	65								
2																												
3	-80	-8	60	70	85	60	55	55	52	60	70	100	200	270	272	175	180	50	-120	-45	-230	-120	-60	-240	46	670		
4																												
5	-80	-30	45	70	70	65	60	55	50	45	42	45	50	50	55	55	58	60	85	100	72	10	-115	-150	32	345		
6	-30	-18	-50	45	85	68	58	55	52	45	42	45	52	55	68	85	85	65	65	65	60	65	10	-5	45	43	285	
7	42	10	20	60	62	60	45	55	55	48	55	70	100	125	200	155	125	105	105	120	105	60	70	55	79	290		
8	-15	15	45	60	65	62	68	62	58	52	58	60	135	205	95	85	85	115	85	55	-200	-70	68	20	54	645		
9	-160	-75	48	68	68	60	55	52	50	48	48	50	60	62	62	105	170	185	182	170	160							
10																												
11	-180	-130	2	35	60	65	60	58	65	62	70	72	135	98	65	70	65	72	30	-20	5	-2	-100	-210	19	535		
12	-35	-10	25	45	85	70	70	90	75	60	50	50	55	60	70	75	70	75	80	40	-25	-70	-130	-270	25	555		
13	-160	-80	50	70	65	70	65	62	58	55	50	48	55	105	270	190	175	150	135	70	40	60	-50	-125	62	730		
14	-110	-30	45	45	95	90	60	75	70	100	65	68	70	85	82	82	102	130	-20	100	40	-160	-70	-120	31	438		
15	-240	-130	-20	60	75	72	65	60	65	62	50	52	60	72	78	115	110	45	-230	-105	-40	-160	-180	-1	540			
16	-300	20	68	68	60	60	60	58	52	48	48	50	52	55	58	60	60	68	70	-20	30	12	20	34	535			
17	15	60	60	60	60	60	55	45	42	40	48	62	70	75	115	205	220	140	135	65	75	35						
18																												
19	55	55	58	60	65	62	58	60	60	58	60	58	62	65	62	72	100	120	85	95	55	65	72	50	67	168		
20	45	40	50	58	60	60	60	72	60	62	65	75	130	125	135	150	135	70	5	80	60	15	-50	-170	59	485		
21	30	85	68	65	52	45	48	62	62	60	62	62	70	68	75	80	68	80	98	82	40	60	20	22	62	380		
22	58	58	58	55	55	52	52	52	50	48	52	50	55	50	55	58	62	85	82	85	82	70	25	-65	62	51	290	
23	62	60	60	60	70	70	65	62	60	62	60	62	60	68	80	250	235	180	205	155	30	50	-2	-170	-230	-450	47	920
24	-460	-300	-190	-330	-500	-20	145	140	100	190	170	85	220	100	90	72	72	5	-170	-300	-450	45	35	-75	-55	1200		
25	-150	-230	-190	-85	30	50	70	85	50	100	100	120	82	115	165	155	160	110	-2	-2	20	70	-330	-200	25	12	505	
26	-30	-20	-270	-400	-35	80	78	55	55	95	110	105	125	170	175	182	60	-10	95	-110	-310	-20	-280	-260	-15	935		
27	-10	25	45	62	55	70	58	52	50	140	110	90	70	62	72	62	65	60	75	-15	-30	-170	-150	-190				

Tromsø.

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

Gr. M. T.

OCTOBER 1942.

HOURLY MEAN VALUES

Table for October 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), hours (1-24), and various magnetic parameters (M, PS, NS, AS, CH).

NOVEMBER

Table for November 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-30), hours (1-24), and various magnetic parameters (M, PS, NS, AS, CH).

DECEMBER

Table for December 1942 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), hours (1-24), and various magnetic parameters (M, PS, NS, AS, CH).

Tromsø.

Vertical Intensity.  $V = 50400 +$  Tabular Quantities expressed in Gamma.

Gr. M. T.

JANUARY 1942.

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	30	25	80	15	13	10	10	10	10	10	11	13	18	19	17	17	15	15	22	30	22	18	10	13	16	48		
2	13	10	10	10	8	7	3	8	10	7	17	18	30	-60	-305	-90	12	30	-115	30	10	20	10	20	-11	578		
3	-2	30	65	38	25	0	-30	-85	-10	15	25	25	18	20	-5	70	72	55	17	0	-25	10	90	20	20	292		
4	40	5	30	40	-190	-100	-25	5	10	13	12	32	35	52	-90	10	-30	-5	55	25	15	120	170	-20	9	632		
5	-15	80	48	-20	0	10	30	32	45	50	45	48	35	35	42	55	12	-45	150	-20	-22	35	20	35	29	476		
6	-20	10	30	2	-8	-15	-12	16	37	37	42	28	30	38	55	30	-50	-150	-70	10	-70	-45	-208	-10	10	394		
7	-105	-45	-25	-20	-15	17	20	29	18	20	22	40	60	35	28	42	15	30	42	-40	-28	-2	20	18	7	224		
8	-2	0	10	18	20	17	20	18	17	17	17	19	20	20	25	38	32	25	20	20	18	14	10	12	17	81		
9	-25	-25	-10	0	-10	0	7	10	12	12	14	18	20	19	19	20	32	32	33	38	28	8	30	40	13	170		
10	-95	-75	-25	-5	0	0	3	12	13	17	20	25	25	30	60	38	32	12	50	32	8	-40	-155	-30	-10	252		
11	5	-15	-25	-10	3	2	10	20	28	18	20	22	40	42	32	40	40	40	12	-25	-40	-45	-22	-5	8	190		
12	0	5	-12	-2	0	3	8	12	20	28	30	22	23	27	26	42	47	38	35	-5	-90	-70	-18	2	7	258		
13	10	7	18	20	17	12	12	18	20	18	20	27	30	32	32	22	32	28	18	20	10	-10	-5	17	61	17		
14	15	20	15	10	8	7	5	8	10	12	13	13	17	18	19	18	20	22	10	0	60	0	60	0	50	12	360	
15	-35	12	23	15	10	10	0	5	7	10	15	30	48	18	30	100	60	35	30	-10	-10	-5	45	10	10	177		
16	-22	-2	-22	-12	-8	0	0	0	3	10	15	30	60	55	73	60	15	-30	-30	0	20	20	5	20	13	190		
17	70	-40	-55	-5	12	-13	8	30	58	58	45	65	48	45	42	30	28	28	25	20	17	18	27	27	27	27	27	
18	15	75	170	-65	-25	-8	0	12	27	27	23	27	33	27	32	58	30	27	23	22	15	60	120	-100	30	26	558	
19	20	55	-20	-28	-62	-65	-35	-10	60	25	27	32	30	35	40	40	23	30	30	23	8	12	-12	-68	0	205	0	
20	-40	-40	-15	18	20	20	20	18	22	22	27	22	23	22	20	28	42	32	28	22	-5	-12	-8	13	116	13		
21	12	15	15	15	17	17	17	17	15	15	13	18	20	27	17	15	15	17	22	30	12	-32	10	7	13	109	10	
22	17	18	5	3	-32	-32	-20	0	12	18	18	23	25	72	45	52	58	-10	-15	5	58	20	42	50	18	156	18	
23	12	-40	-35	-20	-10	0	2	7	10	18	20	30	50	70	68	70	50	38	27	22	22	7	-12	18	143	18		
24	-30	-12	0	5	8	10	10	10	10	8	13	15	12	20	15	12	12	15	20	20	20	60	-15	-50	8	177	8	
25	-28	5	17	17	12	10	10	10	10	12	8	35	40	28	27	22	22	35	40	15	15	25	15	12	17	102	10	
26	5	10	10	15	12	12	13	20	18	17	15	28	28	28	30	32	30	40	35	30	2	8	25	22	20	88	20	
27	17	18	13	12	10	10	10	10	12	15	13	18	15	18	18	20	40	62	65	50	30	30	0	0	21	143	21	
28	2	-55	10	-70	-40	-28	-18	-13	-2	22	23	17	30	45	48	32	42	25	18	7	0	15	8	2	6	245	6	
29	0	10	18	15	10	8	8	8	9	10	10	13	18	18	12	12	20	38	0	-72	-15	42	10	-15	8	231	8	
30	-10	-42	-32	-10	-15	-18	-12	-8	-3	5	8	13	20	20	25	30	42	58	72	25	-15	-35	10	10	6	197	6	
31	3	18	20	13	7	5	4	2	3	8	12	10	10	8	12	15	20	13	12	12	8	5	10	10	10	10	41	10
M	-3	2	9	0	-7	-3	2	9	15	18	19	25	28	31	29	30	21	20	25	7	2	12	4	-3	12	232	12	
QM	12	14	15	14	13	12	11	10	11	12	14	16	18	19	18	17	16	15	14	13	12	11	10	10	10	14	14	

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	8	7	7	5	5	4	4	4	3	3	3	2	2	10	8	18	18	13	18	7	5	0	-18	8	6	82					
2	15	-8	-10	-20	-20	-15	0	10	5	2	10	8	10	17	25	52	25	15	29	37	48	25	42	28	-2	-10	2	0	-30	11	150
3	-30	-17	-3	7	-5	0	10	5	2	10	8	10	17	20	25	20	15	15	-5	7	5	-17	-15	-5	3	88	3				
4	-6	0	5	5	5	7	7	7	5	5	8	10	18	18	20	17	17	18	32	15	10	2	5	10	54	10	54	10	54	10	
5	-15	-12	7	2	-2	-20	-45	-22	-12	8	28	45	50	-15	18	15	-40	-75	-80	-70	25	7	2	-2	9	592	9				
6	-3	40	80	-122	-105	-40	-20	-5	10	15	12	15	55	50	48	-40	-105	-300	-175	-50	-50	190	160	70	-14	925	-14	925	-14	925	
7	75	90	-18	-52	5	8	8	13	17	12	40	30	13	18	27	25	33	25	20	18	18	5	-18	0	17	205	17	205	17	205	
8	-8	3	7	8	8	8	8	8	8	7	10	12	10	10	10	10	18	18	17	17	18	25	-10	10	95	10	95	10	95		
9	-22	5	5	8	7	8	8	10	12	18	16	18	28	32	27	38	40	20	17	16	12	12	12	10	15	95	15	95	15	95	
10	12	10	10	10	10	10	8	7	5	5	8	13	22	70	27	18	-5	-30	-25	-60	0	12	10	-12	6	225	6	225	6	225	
11	-55	-22	-5	12	7	-2	0	-8	-3	5	12	15	30	48	45	52	70	-30	-28	-28	10	75	15	-15	8	280	8	280	8	280	
12	-20	17	15	22	28	23	18	17	15	15	18	20	15	17	17	15	15	17	15	8	12	12	12	15	75	15	75	15	75		
13	2	2	8	-8	-10	5	5	5	5	5	10	15	23	27	22	15	12	12	15	7	-2	-2	8	8	40	8	40	8	40		
14	12	12	10	10	10	8	7	8	8	10	15	20	18	32	62	48	27	15	10	17	-52	0	30	14	306	14	306	14	306		
15	65	-40	-52	-22	-25	-18	-8	-10	10	12	12	62	50	30	20	12	0	20	-65	8	15	8	35	5	400	5	400	5	400		
16	-28	-15	-15	-10	-5	0	-10	5	15	22	25	32	25	30	50	65	25	15	15	12	-15	-20	-160	-40	1	347	1	347	1	347	
17	12	18	12	-128	-115	-55	-10	0	3	7	15	15	15	15	15	17	17	15	15	5	-35	-12	-2	-5	205	5	205	5	205		
18	15	10	8	-3	2	-10	-18	-18	-3	5	10	12	15	15	15	15	13	12	12	10	10	10	7	40	7	40	7	40			
19	10	10	10	12	12	12	12	12	10	10	10	8	5	7	32	12	17	13	12	13	12	32	12	10	11	95	11	95	11	95	
20	-8	10	10	8	10	3	8	10	13	13	8	18	28	32	22	62	80	8	58	18	5	-3	3	70	18	252	18	252	18	252	
21	5	-40	-15	-45	-75	-45	-3	2	8	18	27	20	18	23	20	20	20	20	28	20	25	18	-12	0	2	150	2	150	2	150	
22	-50	-25	-50	-27	-42	-25	-28	0	7	10	18	15	25	25	25	35	35	-30	-25	12	42	50	60	3	170	3	170	3	170		
23	160	-35	-20	-8	-32	-42	-15	-2	12	12	10	13	15	20	-60	-150	-265	-230	-55	25	120	225	140	5	-8	890	5	890	5	890	
24	88	290	160	-50	-30	-40	5	35	65	90	40	42	45	40	40	60	25	0	25	20	-10	-30	75	65	44	612	44	612	44	612	
25	175	180	-50	-100	-35	20	0	18	25	20	2																				



Tromsø.

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

Gr. M. T.

JANUARY 1942.

HOURLY MEAN VALUES

Table for January 1942 showing magnetic observations. Columns include DAY (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -52 to 58.

FEBRUARY.

Table for February showing magnetic observations. Columns include DAY (1-28), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -45 to 170.

MARCH.

Table for March showing magnetic observations. Columns include DAY (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -110 to 400.

Tromsø.

Vertical Intensity. V = 50400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1942.

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	27	12	-20	-27	2	10	3	0	7	5	0	-2	8	18	45	25	22	17	10	8	-50	-22	-12	0	3	158	
2	3	3	7	10	7	-2	5	15	23	40	52	80	0	-155	-70	-25	-50	-22	40	205	170	250	2	100	29	710	
3	70	-52	-28	30	130	-60	-65	12	27	22	25	30	35	0	40	50	70	37	28	8	75	215	-120	-20	21	620	
4	-65	-75	-135	-135	-12	7	40	-12	-25	8	-40	-200	-60	20	-2	-170	-130	20	200	140	220	110	110	65	-5	990	
5	140	15	17	25	28	18	10	25	25	42	42	40	52	62	50	85	75	35	35	25	20	22	20	-37	36	230	
6	-40	-30	-5	-7	-5	13	25	25	28	28	28	28	28	28	28	28	28	22	22	25	15	45	-40	-46	17	177	
7	-32	-10	5	15	15	17	13	17	20	20	20	25	30	32	40	35	23	20	22	22	22	22	22	-25	-42	14	130
8	-12	75	220	-30	-145	-40	-12	25	80	65	48	28	27	20	27	12	15	-50	-70	-30	-15	18	40	58	15	690	
9	45	25	7	12	18	20	20	17	22	25	15	40	12	42	30	48	42	25	27	25	0	-60	-95	-18	14	218	
10	15	20	22	20	18	18	19	20	20	20	20	20	25	30	35	28	28	22	20	20	20	27	15	50	23	190	
11	165	90	200	-60	-110	-60	-40	10	95	88	60	50	30	-100	-250	-50	60	15	75	38	52	10	5	20	17	635	
12	25	28	28	28	30	27	25	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	17	770
13	35	0	25	32	25	22	22	22	22	20	27	25	20	15	-145	-150	-95	-75	-30	35	140	140	320	30	17	770	
14	500	400	290	-40	-48	2	12	22	20	18	15	12	20	25	10	20	30	32	32	32	28	28	28	28	63	900	
15	30	32	32	35	35	32	28	28	28	23	20	48	42	40	33	38	42	32	25	8	20	10	17	29	82	82	
16	22	25	20	-5	-32	-22	7	12	42	45	62	62	75	100	72	53	43	8	10	20	105	300	280	235	64	645	
17	330	500	270	230	-140	-35	30	-2	22	45	-12	0	42	35	-10	-18	-120	-132	-8	12	120	115	70	-10	56	940	
18	70	70	42	0	22	22	30	38	48	45	28	-10	-130	-85	-125	-30	-50	100	-45	65	210	320	200	36	780		
19	30	15	40	-30	-65	0	3	8	35	50	60	52	50	65	48	68	58	18	15	65	0	15	18	70	29	360	
20	20	-10	30	10	18	20	22	28	30	27	20	75	80	90	40	20	35	28	28	22	25	35	22	31	238		
21	2	27	27	27	25	27	30	30	32	32	28	28	27	30	60	70	40	23	5	5	17	40	23	22	28	115	
22	20	18	13	8	80	23	23	23	22	20	15	15	18	20	28	28	25	22	20	20	20	18	18	20	40	40	
23	20	20	18	15	20	15	15	18	8	0	30	58	25	35	50	-55	-60	-48	-10	40	75	90	95	180	27	460	
24	210	270	30	-45	17	8	22	28	28	40	58	70	60	62	100	82	55	40	22	18	2	17	17	51	480		
25	30	35	35	32	30	28	28	28	23	27	28	28	33	32	28	28	30	25	20	22	22	22	25	29	20	20	
26	30	30	32	30	10	0	0	2	8	12	13	18	20	22	32	40	28	22	28	25	18	17	18	2	19	54	
27	18	22	28	28	25	22	20	18	18	23	20	30	58	72	72	75	40	-23	-30	70	170	100	260	49	710		
28	310	230	90	-40	-35	-12	2	15	22	27	45	55	48	52	85	75	50	35	25	32	32	30	90	-70	49	750	
29	-10	13	80	28	18	20	22	28	28	28	30	30	30	35	30	30	30	30	30	28	25	22	45	50	27	238	
30	-12	12	30	30	25	20	17	12	13	17	13	20	40	110	65	45	28	8	38	75	45	42	28	20	31	170	
M	67	61	46	6	-2	5	12	18	26	29	27	25	30	26	19	16	16	8	27	35	45	64	48	42	29	429	
QM	21	22	23	23	22	21	20	20	21	22	23	25	22	22	22	22	22	27	25	23	21	20	20	20	20	23	

MAY.

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	32	25	-65	-80	-100	-60	-10	8	15	20	30	68	47	38	58	40	35	37	27	30	40	20	20	13	144	
2	23	23	28	28	27	18	22	25	25	25	40	60	70	5	-35	-60	-85	-20	8	25	60	55	60	150	23	380	
3	140	90	25	-25	5	10	38	32	28	27	12	38	48	30	28	30	33	32	20	27	26	38	-58	29	245		
4	-20	12	22	0	-8	8	10	10	10	10	10	10	15	20	18	-15	-85	-75	40	40	185	190	205	34	440		
5	215	225	-200	-200	-190	-152	-58	-8	10	22	42	45	40	50	82	65	42	38	35	15	8	110	-10	65	12	760	
6	50	0	-105	-98	-35	2	28	20	22	23	22	35	70	45	40	59	52	60	45	30	28	28	28	20	272		
7	27	27	28	22	15	7	5	5	10	17	15	32	42	37	25	25	27	27	30	28	20	18	20	28	22	54	
8	20	17	15	12	15	12	13	15	15	18	20	30	37	30	53	56	38	30	25	25	30	42	25	26	60		
9	26	25	25	23	20	18	13	15	17	20	22	25	28	30	33	27	22	22	25	25	17	3	13	21	40		
10	22	23	-3	-22	-23	-10	0	7	8	5	3	2	15	30	45	22	18	8	7	8	7	10	60	11	160		
11	45	-30	-20	7	5	5	3	10	15	10	12	10	20	35	32	30	30	22	30	25	18	0	-5	8	13	170	
12	20	23	22	22	20	13	8	7	7	10	12	12	25	23	27	28	26	23	27	23	30	40	35	65	23	88	
13	10	-5	12	15	18	18	18	18	18	17	17	17	15	20	27	40	50	42	28	18	17	15	10	7	-10	18	95
14	-20	-15	-3	0	-12	15	48	-15	25	65	40	28	25	25	40	48	40	30	25	25	10	30	27	27	21	180	
15	30	30	30	25	5	-2	-2	5	8	8	18	10	35	45	43	38	58	55	32	10	10	5	-10	21	170		
16	15	28	30	27	23	22	23	20	17	17	20	65	48	28	15	15	10	-15	-25	-20	5	0	8	16	200		
17	30	8	-2	10	18	17	80	20	18	17	12	17	25	27	30	38	22	10	-15	0	8	28	40	17	116		
18	35	28	-40	-15	-12	7	12	15	18	15	25	32	25	38	40	32	38	33	27	30	0	-2	60	-40	17	347	
19	-8	0	-2	-2	17	15	13	16	20	18	12	17	30	47	70	68	47	32	30	18	18	0	-3	5	20	388	
20	18	22	25	25	22	20	10	5	-5	-3	0	5	5	13	30	28	32	30	18	30	52	165	0	23	367		
21	0	35	100	-38	-10	10	15	13	15	15	12	27	17	12	60	80	48	42	40	32	25	-10	-43	22	300		
22	-25	0	7	18	13	15	27	40	60	20	3	7	10	22	28	40	35	30	80	210	250	70	88	168	50	340	
23	180	35	-12	0	15	10	13	20	18	20	25	30	40	52	60	65	25	18	27	55	120	50	30	38	230		
24	10	10	8	-2	-12	12	17	13	15	15	20	50	42	57	60	65	35	30	20	8	8	75	150	30	222		
25	-30	-25	10	20	18	18	17	16	10	12	25	25	23	32	40	23	20	20	20	20	17	5	8	15	218		
26	20	25	22	20	20	17	18	18	15	12	10	22	27	43	57	48	43	58	32	23	20	18	10	25	60		
27	23	23	23	25	25	18	10	8	2	-8	-3	20	62	40	8	-25	-150	-50	25	105	175	230	160	32	545		
28	35	-20	-8	10	15	-12	12	2	10	18	25	30	38	35	30	15	37	15	30	-15	22	95	-10	19	285		
29	-45	-27	-23	2	7	20	28	22	20	15	17	28															

Tromsø.

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

Gr. M. T.

APRIL 1942.

HOURLY MEAN VALUES

Table for April 1942 showing hourly mean values for vertical intensity, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS, and summary rows for MP6, NNS.

MAY.

Table for May 1942 showing hourly mean values for vertical intensity, storminess, and unit gamma. Columns include Day (1-31), M, PS, NS, AS, and summary rows for MPS, MNS.

JUNE.

Table for June 1942 showing hourly mean values for vertical intensity, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS, and summary rows for MPS, MNS.

Tromsø.

Vertical Intensity. V = 50400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1942.

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	-60	-48	-52	-55	-8	15	45	37	28	40	55	75	32	23	40	20	10	48	48	35	20	40	-10	-30	20	80	54
2																											28
3	23	20	20	20	25	30	28	25	20	20	17	18	18	20	20	20	22	22	22	22	23	20	0	5	25	197	
4	18	20	20	20	20	20	20	20	20	20	20	17	18	20	20	20	22	22	22	22	23	20	0	5	25	183	
5	30	-5	10	17	18	20	15	15	25	28	18	5	10	17	18	58	15	20	32	40	25	22	5	25	23	197	
6	-55	-55	-8	12	15	20	18	18	18	17	18	28	25	42	30	30	40	32	35	17	0	20	10	-30	18	420	
7	50	0	-30	-82	-62	-40	-2	-18	15	15	-40	60	0	50	50	45	48	28	-5	0	55	22	88	185	18	395	
8	95	150	-10	-15	12	28	30																			17	250
9	-20	-48	2	0	18	25	22	25	30	25	12	18	17	28	32	30	42	28	28	20	8	2	13	60	17	250	
10	210	160	-110	-30	-8	25	110	75	62	65	20	5	-70	-280	-290	-340	-135	-45	-15	30	20	55	28	58	-17	890	
11	55	55	35	52	8	-50	-20	22	17	15	35	15	58	10	20	23	28	30	25	10	-18	18	58	100	25	210	
12	100	-20	-15	17	18	3	20	48	38	25	35	45	55	48	40	48	70	45	58	50	50	48	15	-10	34	225	
13	3	17	10	10	12	23	15	17	20	32	25	48	45	60	58	102	55	47	47	22	75	10	60	220	43	458	
14	30	-48	-12	-23	-15	-7	-7	25	45	55	40	35	32	85	100	37	0	-125	-18	10	106	-20	60	190	24	570	
15	280	-40	-75	-48	10	35	25	30	50	65	78	80	98	97	78	58	58	45	20	28	65	215	65	10	55	580	
16	135	70	-50	-25	3	2	-5	20	20	27	28	65	60	55	43	58	58	52	35	45	42	40	30	40	36	272	
17	42	-8	5	25	30	20	35	25	30	28	27	42	50	42	33	42	57	45	32	37	30	28	27	30	31	75	
18	28	12	10	20	22	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
19																											
20																											
21	38	30	25	27	10	18	17	20	27	20	35	25	70	40	32	30	70	57	45	15	-10	40	115	62	26	110	
22	42	-40	-15	15	15	20	28	12	20	25	25	22	18	20	20	20	48	-15	-68	-20	40	75	90	50	19	300	
23	27	12	-15	-15	-25	-57	-10	13	17	20	20	20	20	20	20	38	48	30	0	-48	-18	35	65	145	17	553	
24	190	195	70	65	-15	-75	-22	38	38	35	50	-5	-5	35	72	77	50	-35	40	40	38	160	140	49	495		
25	-85	-32	3	17	30	25	18	13	12	12	12	12	10	30	48	48	40	25	30	22	0	20	165	95	29	585	
26	165	-30	-60	-12	0	-3	3	10	20	32	40	25	32	63	38	32	18	10	-52	-20	10	80	230	36	570		
27	50	-42	2	8	-19	-35	0	5	8	16	48	65	75	55	48	48	23	57	25	75	-55	-60	-25	40	17	580	
28	210	45	-30	-8	18	30	30	38	52	40	33	22	28	42	48	40	35	50	47	30	32	30	22	80	40	370	
29	50	-80	-30	-20	8	18	27	32	42	47	38	32	18	72	40	30	32	2	25	2	10	10	-80	15	470		
30	0	20	-23	10	18	12	12	25	35	40	38																
31																											
M	61	12	-11	1	5	6	17	23	28	30	28	35	31	3a	33	29	32	23	14	22	27	38	57	69	27	349	
QM	23	24	25	26	25	24	23	22	21	20	20	21	23	25	28	29	30	29	28	25	23	22	21	22	24		

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																											
2	3	12	22	28	20	25	25	25	20	18	20	17	20	20	23	30	30	35	37	25	-15	-13	-68	-22	30	225	
3	45	-65	-130	-80	-12	20	25	38	33	25	28	22	30	48	48	50	48	35	42	5	17	40	62	25	16	340	
4	-28	-7	10	20	10	10	17	18	12	18	12	18	25	28	30	28	30	30	30	28	17	22	-17	-5	17	88	
5	-5	3	9	8	17	30	25	28	27	30	20	32	43	50	50	45	42	40	42	20	8	32	50	-95	18	175	
6	-28	-13	10	20	25	23	20	22	22	15	12	15	18	48	48	-20	-22	20	32	10	-5	-25	28	110	16	420	
7	165	70	-50	-35	-3	7	22	28	25	37	52	45	45	32	50	57	58	20	0	13	22	-60	-88	-45	20	435	
8	5	20	20	28	30	28	28	27	27	30	28	28	30	28	30	38	35	33	38	30	28	22	-15	-10	24	60	
9	12	22	27	30	32	28	22	20	80	17	15	65	125	103	87	92	40	45	33	35	30	33	30	41	150	40	
10	28	25	10	-8	-12	2	10	22	20	25	22	35	40	108	65	-80	-60	5	-80	-12	40	70	140	200	26	525	
11	47	0	22	28	-2	20	-10	2	47	57	60	80	50	88	72	77	62	42	50	40	45	25	27	42	41	722	
12	20	20	15	15	-3	12	18	33	50	60	58	60	75	72	60	72	67	42	43	27	25	80	115	98	47	230	
13	10	25	-7	18	8	18	20	20	20	20	20	20	25	28	33	38	35	33	30	25	22	20	22	0	21	130	
14	-55	-67	-25	5	20	28	25	25	38	45	48	58	52	50	48	35	26	28	27	25	8	-2	20	21	150	21	
15	23	28	28	50	20	28	27	22	23	22	17	20	27	55	57	50	45	32	10	0	75	105	180	160	2	250	
16	195	60	95	180	60	-20	-50	-8	8	10	18	0	40	48	48	30	-8	-15	-42	-20	-30	0	125	240	40	655	
17	180	70	-25	-8	15	-10	35	42	43	43	35	50	45	35	48	47	15	-32	5	92	180	80	55	40	44	400	
18	65	30	8	22	25	28	25	42	48	100	92	77	15	-3	-8	57	65	50	40	0	8	55	135	-130	-20		
19																											
20	25	70	80	-105	-15	18	28	33	32	45	65	50	45	67	65	38	43	35	-12	-25	0	22	48	92	31	388	
21	28	20	15	10	10	20	22	37	25	28	40	50	70	80	40	67	55	50	28	15	-22	-23	40	140	35	245	
22	60	-60	-32	12	10	7	13	22	27	25	32	27	35	32	30	32	50	40	30	28	30	20	75	150	29	352	
23	170	350	50	180	10	2	45	30	42	53	47	50	-2	110	-10	-210	-60	20	50	28	170	160	-160	36	775		
24	-22	85	70	25	-8	25	28	28	30	32	43	40	45	50	60	48	18	-28	-60	-10	190	130	180	180	49	475	
25	42	25	25	-10	-10	0	-12	-3	28	48	43	20	42	62	72	50	47	25	-30	-30	-55	120	22	30	23	375	
26	40	40	30	20	30	2	28	25	30	30	35	40	37	62	72	68	58	48	20	-35	0	65	120	65	39	320	
27	225	25	2	10	38	40	40	50	45	37	33	55	50	60	60	60	40	33	38	30	20	-22	15	45	310	45	
28	15	12	22	30	32	35	38	40	40	42	45	35	30	38	40	40	47	28	40	43	20	2	-10	15	30	75	
29	28	30	30	30	31	30	30	29	29	27	27	32	45	45	50	53	48	40	27	33	27	-17	2	17	30	115	
30	20	10	5	20	30	38	35	30	30	28	25	25	27	28													

Tromsø.

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

Gr. M. T.

JULY 1942.

HOURLY MEAN VALUES

Table with columns: DAY, 1-23, M, PS, NS, AS. Contains hourly magnetic data for July 1942.

AUGUST.

Table with columns: DAY, 1-23, M, PS, NS, AS. Contains hourly magnetic data for August 1942.

SEPTEMBER.

Table with columns: DAY, 1-23, M, PS, NS, AS. Contains hourly magnetic data for September 1942.

Tromsø. Vertical Intensity.  $V = 50400 +$  Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1942.

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	15	22	23	23	27	28	30	32	32	30	30	32	30	33	38	52	42	40	52	49	23	-12	10	-42	26	155	
2	-58	-50	-28	-5	0	-3	5	13	22	40	25	15	-40	-130	-165	-120	-60	140	-40	65	180	10	185	195	3	780	
3	250	270	110	-15	90	-75	10	65	70	50	50	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
4	0	20	15	-12	-38	-2	32	40	45	58	60	40	65	63	-10	-115	-170	-100	-28	-10	10	170	270	-90	13	680	
5	10	20	-70	-10	-20	5	18	40	60	67	70	120	110	77	50	58	70	12	48	48	-50	-45	55	75	34	320	
6	-22	-22	17	29	35	35	32	40	43	47	50	50	48	45	42	40	35	32	32	25	70	165	35	40	39	313	
7	130	40	-35	-72	-28	-22	30	30	28	43	45	65	80	72	72	18	68	60	12	35	75	82	170	-35	41	450	
8	-32	5	8	13	20	22	23	25	35	45	55	67	78	90	60	63	62	35	-90	-3	45	70	30	65	33	285	
9	72	65	-28	-2	20	28	25	23	30	35	40	42	40	47	63	65	70	47	60	53	35	28	23	25	38	143	
10	23	27	30	28	25	22	23	20	23	27	28	22	25	25	28	23	28	30	32	35	28	-22	-12	-20	21	122	
11	15	23	27	30	30	30	30	30	28	30	28	30	37	43	42	72	75	65	48	25	-23	18	7	28	32	184	
12	100	122	200	-25	-18	18	30	42	40	52	85	25	-65	68	58	35	20	-25	2	-23	60	52	250	-25	45	575	
13	-35	130	48	-25	12	35	50	48	45	50	48	45	45	72	43	90	10	-245	-76	8	105	200	30	-45	29	685	
14	-20	-28	38	0	25	30	42	38	47	48	45	57	68	80	-40	-18	42	33	-60	-230	-300	150	40	20	4	748	
15	42	25	32	38	22	-23	5	0	45	23	30	30	42	72	50	28	60	-10	-190	-200	-35	200	350	-15	25	770	
16	60	130	-70	-35	12	18	38	45	45	52	67	60	62	75	60	75	10	-32	-120	0	70	-20	35	70	29	570	
17	60	28	12	20	-3	3	25	37	43	48	42	40	48	67	67	67	67	67	67	67	67	67	67	67	67	67	67
18	33	43	22	12	-12	30	40	50	70	48	45	75	50	68	62	15	0	-60	-160	-10	50	120	95	150	35	700	
19	400	200	-25	-70	-58	8	43	70	63	52	70	30	50	-5	80	-160	-75	-140	-100	-18	10	-15	48	35	21	885	
20	60	65	30	30	0	7	20	35	37	38	50	55	100	58	92	-90	-175	-20	35	-28	12	17	28	32	20	595	
21	32	32	32	28	23	22	22	30	33	30	33	30	32	48	90	60	32	48	60	75	57	37	10	15	30	38	155
22	30	20	12	17	25	37	35	37	38	35	35	37	60	80	40	37	38	40	25	48	23	8	0	20	32	88	
23	20	12	30	38	33	27	38	38	40	43	38	50	65	80	45	37	35	50	37	35	45	32	37	20	37	95	
24	18	22	25	25	25	25	27	30	30	27	26	27	28	30	30	28	28	30	25	17	40	12	12	26	75	10	
25	20	20	-2	-16	-40	-35	-20	0	-20	0	6	20	25	48	62	65	50	28	5	7	32	30	32	7	13	122	
26	12	13	18	-22	-16	-10	10	35	32	30	30	30	32	32	32	30	32	32	35	28	-60	-90	-18	65	13	313	
27	88	-12	-80	-20	7	25	30	38	35	38	35	35	32	30	30	58	68	38	58	50	45	30	10	-52	0	23	245
28	20	18	17	20	20	20	20	22	25	30	30	15	-80	-255	-200	-370	-80	-5	85	295	330	190	220	14	50	575	
29	70	-80	-22	15	-28	3	35	0	35	15	-55	-150	-135	45	28	38	-25	-95	30	60	-15	150	65	160	6	600	
30	115	55	78	-38	-40	-12	60	65	80	88	65	40	40	-10	-70	-110	-190	20	100	125	160	320	40	-75	37	620	
31																											
M	51	41	15	0	5	10	27	33	39	41	40	38	39	42	24	5	-11	-2	-8	9	26	69	72	33	27	435	
QM	27	28	28	28	27	26	25	25	26	27	28	29	30	31	32	33	33	32	31	30	29	28	27	27	29		

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	28	12	18	23	22	30	33	48	77	62	70	75	60	90	73	47	50	18	48	50							
2																											
3	-22	-5	15	30	23	28	42	55	60	62	68	85	92	60	90	40	0	-30	-30	45	20	30	22	7	33	265	
4	-2	35	35	33	40	35	30	52	78	62	57	88	82	73	63	42	43	52	50	5	-15	15	8	-25	39	231	
5	-32	-47	-15	10	13	20	25	28	30	32	37	38	45	50	50	45	42	40	32	30	45	62	80	140	33	306	
6	0	50	50	-3	20	38	33	27	27	35	37	38	45	42	40	52	70	57	38	38	42	15	-45	3	31	183	
7	18	20	5	15	13	17	18	12	25	37	35	45	75	75	48	85	70	53	40	15	-2	30	48	45	35	130	
8	48	-5	5	15	13	-3	15	17	23	45	53	52	58	65	55	42	18	22	25	-30	-50	0	65	24	325		
9	95	-12	0	50	38	35	32	30	30	32	35	45	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
10																											
11	55	35	-73	-40	-17	17	20	35	38	37	37	40	78	30	28	37	43	37	8	-140	-25	50	17	20	15	315	
12	-30	-35	-15																								
13	-132	-75	-35	8	20	20	22	28	28	28	30	35	40	40	40	0	15	55	25	-50	-30	-130	0	95	60	4	550
14	72	-28	10	20	15	48	30	52	45	45	50	47	60	45	55	57	38	-15	-140	-50	130	160	55	110	38	600	
15	150	-30	-33	5	22	37	38	35	33	32	36	38	37	37	38	72	47	5	10	78	-25	0	40	-60	27	350	
16	-110	-60	8	20	20	22	23	27	29	30	33	35	37	37	32	30	30	30	40	28	-17	-25	-15	2	12	210	
17	-18	18	28	25	25	25	25	25	30	30	33	38	72	58	83	72	60	85	35	28	20	30					
18																											
19	25	27	25	25	22	20	20	22	22	25	30	45	40	32	32	33	52	8	15	2	-53	5	20	22	22	155	
20	23	10	17	5	7	5	0	8	10	8	18	47	47	62	95	83	12	-15	-23	-70	18	50	-15	22	18	320	
21	-57	6	43	40	22	13	32	32	28	30	33	50	45	45	45	70	38	48	47	22	-50	-57	-35	-18	20	220	
22	20	42	43	37	32	30	28	23	25	30	27	30	30	40	40	38	33	37	-2	30	25	22	13	27	29	109	
23	38	33	30	23	18	20	20	20	20	20	23	27	60	57	35	-60	-92	8	15								
24																											
25																											
26																											
27	-45	-10	10	12	23	33	40	48	58	63	85	62	60	58	72	52	50	20	-12	-115	-90	-90	20	19	380		
28	-22	-22	15	25	-2	-17	5	27	48	70	62	53	60	35	-90	-20	-20	-110	-160	-115	32	72	110	40	3	720	
29	-35	-72	-37	8	12	42	42	48	48	57	75	40	60	77	80	68	25	-18	-82	22	35	23	2	-80	18	-385	
30	-32	12	30	30	18	10	20	33	52	55	40	37	42	72	85	72	52	-2	-5	-15	10	28	3				

Tromsø.

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

Gr. M. T.

Table for October 1942 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

NOVEMBER

Table for November 1942 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, PS, NS, AS).

DECEMBER

Table for December 1942 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).





Resuming Tables.

Storminess.

Tromsø.

Declination. Unit Gamma. + West.

1942.	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	0	1	1	0	1	3	4	4	3	3	4	5	6	9	10	12	12	9	6	4	3	1	4	0
FEB MPS	0	0	0	0	1	1	3	4	3	4	6	7	10	11	13	9	15	14	17	16	8	2	3	0
MAR MPS	1	0	3	1	2	5	6	7	7	6	9	12	16	14	17	19	22	20	17	14	7	9	3	2
APR MPS	1	1	1	2	4	8	7	7	7	7	6	9	11	17	21	24	18	21	18	16	6	3	2	1
MAY MPS	0	0	0	0	2	3	3	5	7	5	7	6	6	9	11	14	19	21	18	13	7	3	0	1
JUN MPS	1	1	0	1	1	3	4	2	1	2	4	7	8	7	11	13	19	19	21	13	6	3	1	0
JUL MPS	0	0	0	0	2	5	4	5	4	3	3	4	6	9	12	13	19	21	22	19	11	4	0	0
AUG MPS	0	0	0	0	2	3	5	7	9	6	8	9	10	14	15	20	17	21	21	18	7	3	1	0
SEP MPS	0	0	1	1	1	4	10	12	12	10	5	6	9	12	18	13	16	14	11	13	4	4	1	0
OCT MPS	0	0	0	0	2	4	6	8	6	4	5	7	9	13	15	12	16	15	18	10	6	2	4	2
NOV MPS	0	0	1	1	4	5	6	6	5	4	4	5	5	7	10	9	9	9	5	6	1	4	0	0
DEC MPS	0	0	1	1	2	5	5	4	4	3	3	4	4	6	7	6	10	11	7	5	4	3	0	0
MEAN:	0	0	1	1	2	4	6	6	6	5	5	7	9	11	14	14	16	16	15	12	6	3	2	1
JAN MNS	19	19	16	10	4	2	0	0	1	1	0	0	0	0	2	1	1	3	4	6	8	11	18	20
FEB MNS	29	30	37	27	18	6	1	1	2	1	1	1	0	0	0	2	7	2	5	0	7	10	25	21
MAR MNS	26	34	50	43	23	3	2	5	7	6	5	7	4	3	3	7	6	8	3	7	9	11	11	28
APR MNS	44	37	38	21	12	3	2	1	2	1	3	5	2	0	1	1	1	4	2	5	11	15	30	30
MAY MNS	26	27	26	15	7	3	4	4	1	1	0	0	0	0	1	1	1	0	0	0	5	7	19	23
JUN MNS	22	42	39	22	10	5	2	4	4	3	2	1	0	1	0	0	0	0	0	0	3	7	12	17
JUL MNS	52	49	31	19	11	5	5	1	3	4	3	4	2	1	1	1	0	0	1	1	3	13	20	47
AUG MNS	37	34	37	20	11	4	1	0	0	2	1	0	1	0	2	2	0	0	0	4	9	19	28	40
SEP MNS	36	41	32	17	14	3	1	0	1	0	4	2	1	2	1	1	3	4	10	7	11	13	26	37
OCT MNS	50	44	38	18	6	2	2	2	0	1	4	4	3	4	8	9	7	6	9	9	12	30	30	34
NOV MNS	40	31	18	16	2	1	2	0	1	2	2	1	3	6	5	8	5	7	15	29	22	24	38	38
DEC MNS	28	26	12	9	4	1	0	0	0	0	0	1	2	1	4	1	5	2	8	6	13	17	23	31
MEAN:	34	55	31	20	10	3	2	2	2	2	2	2	2	2	2	3	3	3	5	5	10	14	21	30
JAN MPS MNS	-19	-18	-16	-10	-3	2	4	3	3	2	3	4	8	9	8	10	11	6	1	-2	-5	-10	-14	-20
FEB MPS MNS	-28	-30	-37	-27	-18	-5	2	3	1	4	5	6	10	11	12	7	9	12	11	15	1	-7	-22	-21
MAR MPS MNS	-27	-34	-47	-42	-21	3	4	1	0	3	5	12	12	15	12	16	12	14	8	-3	-8	-8	-25	-25
APR MPS MNS	-43	-35	-37	-19	-8	5	5	6	5	6	3	4	10	17	20	23	17	20	13	14	3	-7	-13	-29
MAY MPS MNS	-26	-27	-26	-15	-5	0	0	1	6	5	7	6	6	9	10	13	18	21	18	13	2	-4	-19	-22
JUN MPS MNS	-20	-42	-39	-21	-9	-2	2	-2	-1	3	5	8	6	10	13	19	19	21	12	2	-4	-11	-17	-17
JUL MPS MNS	-52	-49	-31	-19	-9	0	0	4	1	-2	0	0	4	8	11	12	19	21	21	19	7	-10	-20	-47
AUG MPS MNS	-37	-34	-37	-20	-9	-1	4	7	9	4	7	9	9	14	13	18	17	21	21	14	-2	-15	-28	-40
SEP MPS MNS	-36	-41	-32	-16	-12	1	9	12	11	10	2	4	8	11	17	12	13	11	0	6	-7	-10	-25	-37
OCT MPS MNS	-50	-44	-38	-18	-4	1	4	6	6	3	2	3	6	9	6	3	8	9	8	1	-6	-27	-25	-32
NOV MPS MNS	-40	-31	-17	-15	3	4	5	6	4	1	2	4	1	2	5	1	3	2	-10	-10	-28	-17	-24	-38
DEC MPS MNS	-28	-26	-11	-9	-2	4	5	4	4	2	3	2	2	4	3	5	6	8	0	-2	-9	-14	-23	-31
MEAN:	-34	-35	-31	-19	-8	1	4	4	4	3	3	4	7	9	11	11	13	14	10	8	-4	-11	-19	-30

Horizontal Intensity. Unit Gamma.

1942.	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	2	3	1	1	2	3	3	1	2	2	5	6	8	12	23	33	34	32	22	13	10	4	2	1
FEB MPS	0	0	2	1	2	4	4	3	3	4	7	9	10	17	24	25	25	27	17	11	4	2	1	0
MAR MPS	1	1	1	0	1	2	3	14	29	37	47	54	68	83	97	77	65	41	22	8	1	1	0	0
APR MPS	0	0	0	1	4	5	4	4	7	20	41	49	66	85	87	74	52	27	8	4	0	0	0	0
MAY MPS	0	0	1	1	1	2	2	2	3	5	12	18	24	25	32	48	42	29	20	7	2	1	1	0
JUN MPS	0	0	0	1	1	2	2	5	6	11	12	15	22	35	54	60	56	37	27	8	4	2	5	0
JUL MPS	0	0	1	1	1	0	2	4	3	12	35	51	62	54	44	43	53	38	24	11	6	2	2	3
AUG MPS	1	0	3	1	2	2	2	3	7	10	18	28	51	49	51	58	54	37	25	16	4	0	0	0
SEP MPS	1	0	0	2	2	5	3	4	4	14	22	35	41	49	67	70	62	34	18	11	3	0	0	0
OCT MPS	0	0	2	1	3	5	12	7	7	14	26	39	76	82	77	57	33	19	11	11	2	0	0	1
NOV MPS	0	1	1	2	6	5	7	9	11	20	27	25	44	57	65	57	48	38	26	15	8	5	2	0
DEC MPS	1	3	2	3	2	7	5	5	4	8	9	14	26	27	42	37	40	32	28	15	9	2	0	0
MEAN:	1	1	1	1	2	3	4	5	7	13	22	29	42	48	55	55	47	33	21	11	4	2	1	0
JAN MNS	50	39	25	14	11	9	7	4	4	4	2	1	1	0	1	0	0	1	10	13	27	40	72	63
FEB MNS	67	64	54	28	12	4	4	4	5	4	4	3	3	2	1	1	2	1	24	13	33	46	72	80
MAR MNS	101	137	120	116	58	22	9	4	3	2	1	1	0	0	0	0	0	19	22	46	109	98	134	129
APR MNS	135	121	94	63	37	19	17	11	2	1	0	0	0	0	1	1	4	9	52	42	59	81	114	132
MAY MNS	68	71	59	31	21	13	12	8	7	3	1	2	2	1	1	1	1	0	6	21	53	64	91	89
JUN MNS	97	128	93	42	20	12	4	1	2	1	2	4	3	3	2	1	1	2	0	14	40	41	61	82

JUL MNS	157	125	57	31	35	24	18	15	10	1	0	2	2	2	1	1	1	3	4	23	66	86	98	183
AUG MNS	122	94	75	32	26	16	8	5	4	1	0	0	0	0	1	1	1	1	14	46	79	115	133	130
SEP MNS	128	95	63	42	33	15	14	8	7	3	2	2	2	1	1	1	1	6	49	59	92	133	198	173
OCT MNS	137	110	85	45	33	7	5	3	3	2	1	0	0	0	0	7	13	59	57	76	126	165	173	161
NOV MNS	128	81	50	41	29	4	2	2	0	1	0	0	0	0	1	0	6	16	27	44	88	88	128	163
DEC MNS	90	52	38	26	7	3	2	1	3	1	0	0	0	1	1	1	1	0	12	12	42	83	116	136
MEAN:	107	92	68	43	27	12	9	6	4	2	1	1	1	1	1	1	3	10	23	34	68	87	116	124
JAN MPS + MNS	-49	-36	-24	-13	-9	-6	-4	-3	-3	-2	3	5	7	12	22	33	54	31	12	0	-17	-36	-70	-62
FEB MPS + MNS	-67	-54	-52	-27	-10	0	0	-1	-2	0	3	7	7	15	23	23	23	25	-7	-2	-29	-44	-71	-80
MAR MPS + MNS	-100	-136	-119	-116	-57	-20	-6	10	26	35	45	53	67	83	97	77	65	22	-1	-38	-108	-97	-134	-129
APR MPS + MNS	-135	-121	-94	-62	-33	-16	-13	-6	6	20	41	49	66	85	96	73	48	19	-43	-38	-58	-81	-114	-132
MAY MPS + MNS	-67	-71	-58	-30	-19	-11	-11	-6	-4	2	11	17	22	24	31	47	41	29	14	-13	-50	-63	-90	-89
JUN MPS + MNS	-97	-128	-93	-41	-19	-11	-2	3	4	9	10	11	19	32	52	50	55	35	27	6	-36	-39	-66	-82
JUL MPS + MNS	-157	-125	-56	-30	-34	-24	-16	-12	-6	11	35	50	60	62	43	42	62	35	20	-13	-60	-84	-96	-150
AUG MPS + MNS	-121	-94	-72	-31	-23	-14	-6	-2	3	9	18	28	51	49	50	57	53	36	11	-30	-75	-115	-133	-129
SEP MPS + MNS	-127	-95	-63	-40	-31	-10	-11	-4	-3	11	20	33	39	48	66	69	61	28	-31	-48	-89	-133	-198	-173
OCT MPS + MNS	-137	-110	-83	-43	-30	-3	7	4	4	13	24	39	76	82	77	49	20	-40	-46	-65	-123	-165	-173	-161
NOV MPS + MNS	-128	-80	-49	-39	-23	1	5	7	11	20	27	25	44	57	64	57	42	24	-1	-29	-80	-83	-126	-163
DEC MPS + MNS	-89	-50	-36	-23	-5	4	2	4	1	6	9	14	26	26	41	36	32	10	3	-33	-81	-116	-135	
MEAN:	-106	-92	-67	-41	-24	-9	-5	-1	3	11	21	28	40	47	54	52	44	23	-2	-23	-63	-85	-115	-124

Vertical Intensity. Unit Gamma.

1942.	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	4	7	9	2	1	0	1	3	7	7	6	10	10	14	16	16	18	15	12	8	6	16	11	7
FEB MPS	24	20	6	0	1	1	0	2	6	6	9	7	12	11	11	13	9	4	6	4	8	20	18	19
MAR MPS	59	60	35	27	5	0	2	8	20	26	22	29	28	25	29	24	13	6	5	13	28	28	55	38
APR MPS	57	50	35	8	4	0	1	2	8	9	10	11	11	17	16	16	12	4	14	18	31	50	43	38
MAY MPS	17	10	3	0	0	0	3	2	2	2	2	4	12	9	9	14	10	4	7	17	20	27	26	
JUN MPS	24	18	0	0	0	0	0	2	5	7	10	7	13	13	15	9	6	6	5	9	17	17	29	20
JUL MPS	52	20	2	2	0	1	5	5	9	11	11	15	15	19	18	13	12	7	5	7	14	24	42	57
AUG MPS	32	21	6	8	1	1	2	5	9	12	13	15	15	23	18	16	12	4	4	5	16	29	39	47
SEP MPS	35	17	7	8	0	0	2	6	12	15	16	15	20	23	22	19	11	10	5	11	25	40	77	46
OCT MPS	37	28	11	1	2	1	6	11	15	14	16	14	21	24	15	12	10	8	8	11	27	57	51	23
NOV MPS	11	1	2	1	1	3	4	7	12	15	13	15	21	24	21	15	10	6	9	13	9	16	21	15
DEC MPS	7	4	2	1	1	0	1	3	6	9	12	10	13	16	13	14	9	6	5	8	17	20	34	26
MEAN:	30	21	10	5	1	1	2	5	10	11	12	13	16	18	17	15	11	7	7	9	18	28	37	30
JAN MNS	20	18	16	16	20	15	9	5	2	1	1	0	0	0	5	4	19	10	9	11	17	14	17	20
FEB MNS	18	13	14	27	28	19	10	5	2	1	0	0	0	1	8	17	24	33	21	16	15	13	15	14
MAR MNS	19	9	25	21	33	27	14	7	3	1	2	4	8	9	34	36	33	26	28	18	8	12		
APR MNS	11	13	12	26	28	16	10	5	3	2	5	10	7	18	25	28	23	21	10	5	7	5	15	16
MAY MNS	13	15	25	28	22	16	8	5	3	3	4	4	2	3	4	7	15	10	7	9	14	12	12	17
JUN MNS	12	16	43	50	30	17	8	4	2	2	2	1	2	1	4	9	21	19	6	9	7	6	4	8
JUL MNS	13	33	38	27	21	20	11	4	1	1	3	2	7	13	15	14	9	14	19	10	9	9	5	10
AUG MNS	13	18	24	23	17	14	9	4	2	2	2	2	2	5	4	14	16	13	16	14	13	10	18	19
SEP MNS	19	19	31	28	25	17	11	4	0	1	1	2	0	0	9	14	23	30	29	23	13	13	8	20
OCT MNS	14	14	24	28	24	17	4	3	2	1	4	7	11	12	24	40	54	41	46	31	29	24	13	28
NOV MNS	39	36	23	12	10	8	4	2	2	2	4	0	2	0	7	9	16	31	35	34	39	23	21	29
DEC MNS	31	24	16	25	19	12	7	1	1	0	0	3	15	11	10	15	17	29	32	17	14	13	14	18
MEAN:	19	19	24	26	23	17	9	4	2	1	2	3	4	6	10	15	22	24	22	17	17	13	13	16
JAN MPS + MNS	-15	-11	-6	-15	-20	-15	-8	-1	4	6	5	9	10	14	11	13	6	4	9	-3	-13	2	-6	-13
FEB MPS + MNS	6	7	-7	-27	-27	-19	-10	-3	4	5	3	7	11	10	3	-5	-15	-20	-15	-12	-8	7	3	5
MAR MPS + MNS	39	51	10	5	-30	-27	-12	1	17	25	19	28	26	21	15	-22	-30	-30	-13	0	10	48	26	
APR MPS + MNS	46	38	23	-17	-24	-15	-9	-3	5	7	4	0	4	-2	-10	-12	-11	-17	4	13	25	44	28	22
MAY MPS + MNS	4	-5	-23	-28	-21	-15	-5	-3	-1	-1	-2	0	10	6	5	7	-5	-7	-3	-3	3	7	15	10
JUN MPS + MNS	13	2	-43	-50	-30	-17	-7	-2	3	5	9	6	11	12	11	0	-15	-12	-1	0	10	11	25	12
JUL MPS + MNS	38	-13	-39	-24	-20	-19	-6	0	8	11	8	13	9	6	5	-1	3	-7	-14	-3	5	15	37	47
AUG MPS + MNS	20	3	-18	-15	-16	-13	-7	1	7	10	11	12	13	19	14	2	-4	-9	-12	-9	3	19	21	27
SEP MPS + MNS	16	-1	-24	-20	-25	-17	-8	2	11	14	15	13	20	23	13	5	-12	-20	-24	-12	12	27	69	26
OCT MPS + MNS	24	14	-13	-28	-22	-16	1	8	14	13	12	8	9	12	-8	-27	-44	-34	-37	-21	-2	33	38	-5
NOV MPS + MNS	-27	-34	-22	-11	-9	-5	0	4	10	13	9	15	19	24	14	7	-6	-25	-26	-21	-30	-6	0	13
DEC MPS + MNS	-24	-20	-14	-24	-18	-12	-6	1	5	9	12	7	-2	5	3	-1	-7	-23	-27	-9	3	7	20	8
MEAN:	12	3	-14	-21	-22	-16	-6	0	7	10	9	10	12	13	7	0	-11	-17	-15	-8	1	15	25	15

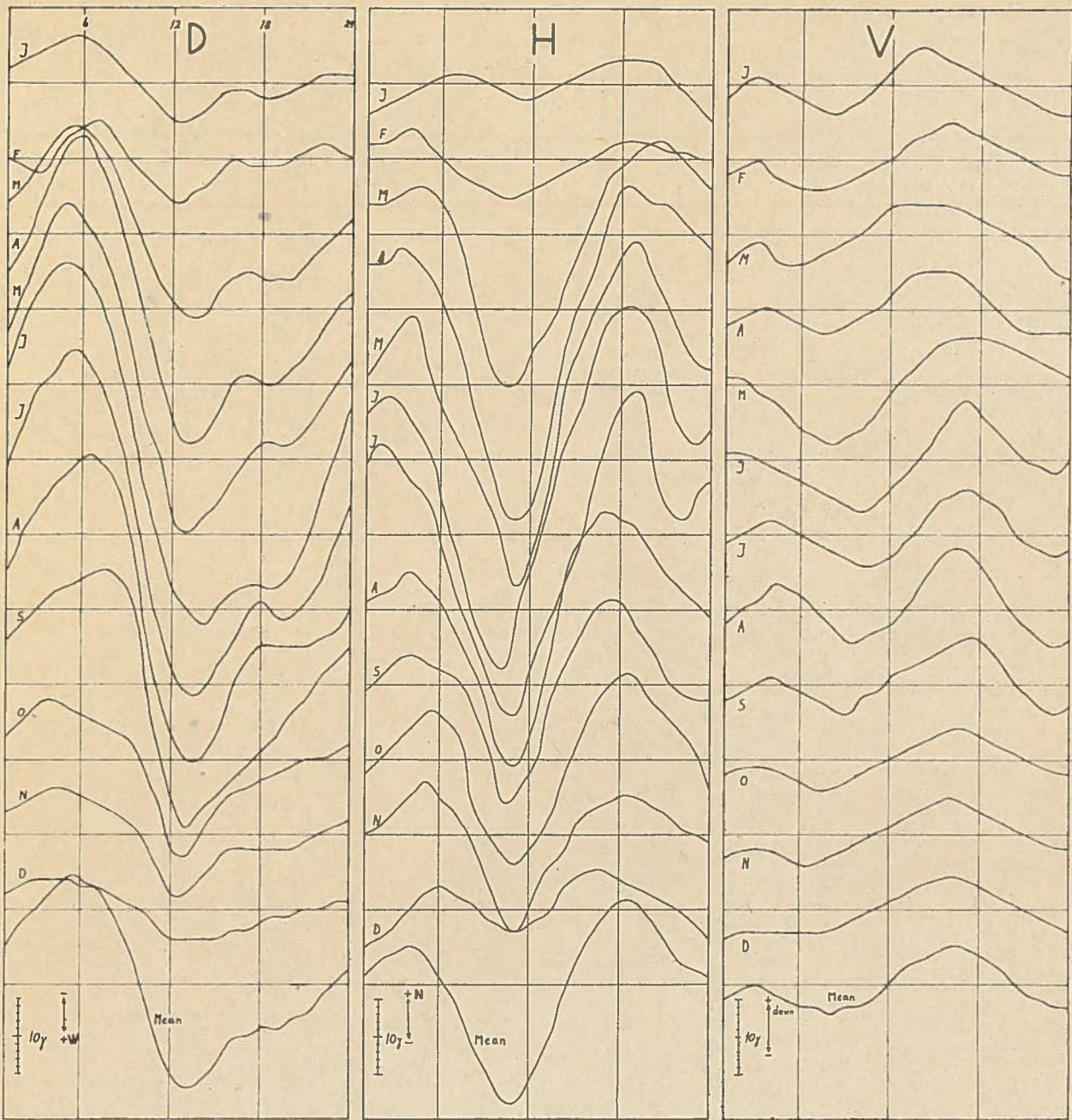


Fig. 1. The Quiet Diurnal Variation, smoothed Values.

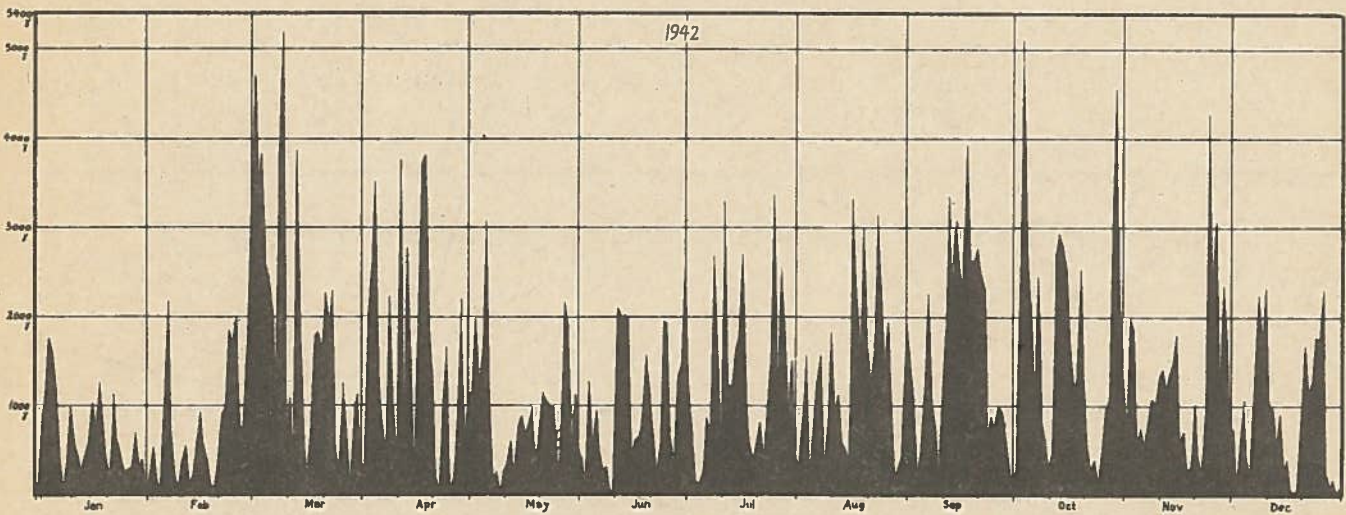


Fig. 2. The Diurnal Sum of the Absolute Storminess of H.

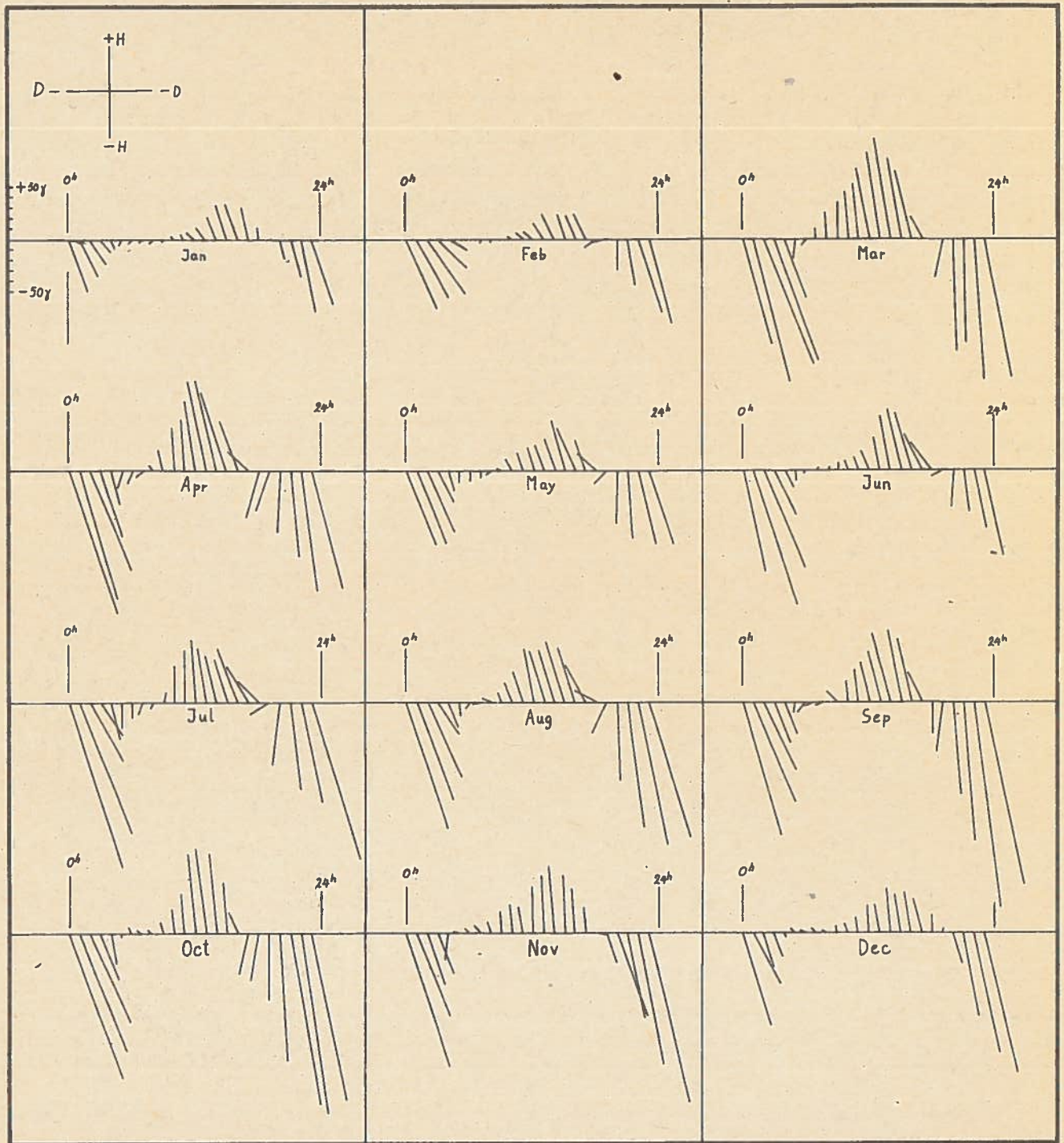


Fig. 3. Diagrams of the Monthly Mean Values ( $M$ ) of the Storminess in the Horizontal Plane.

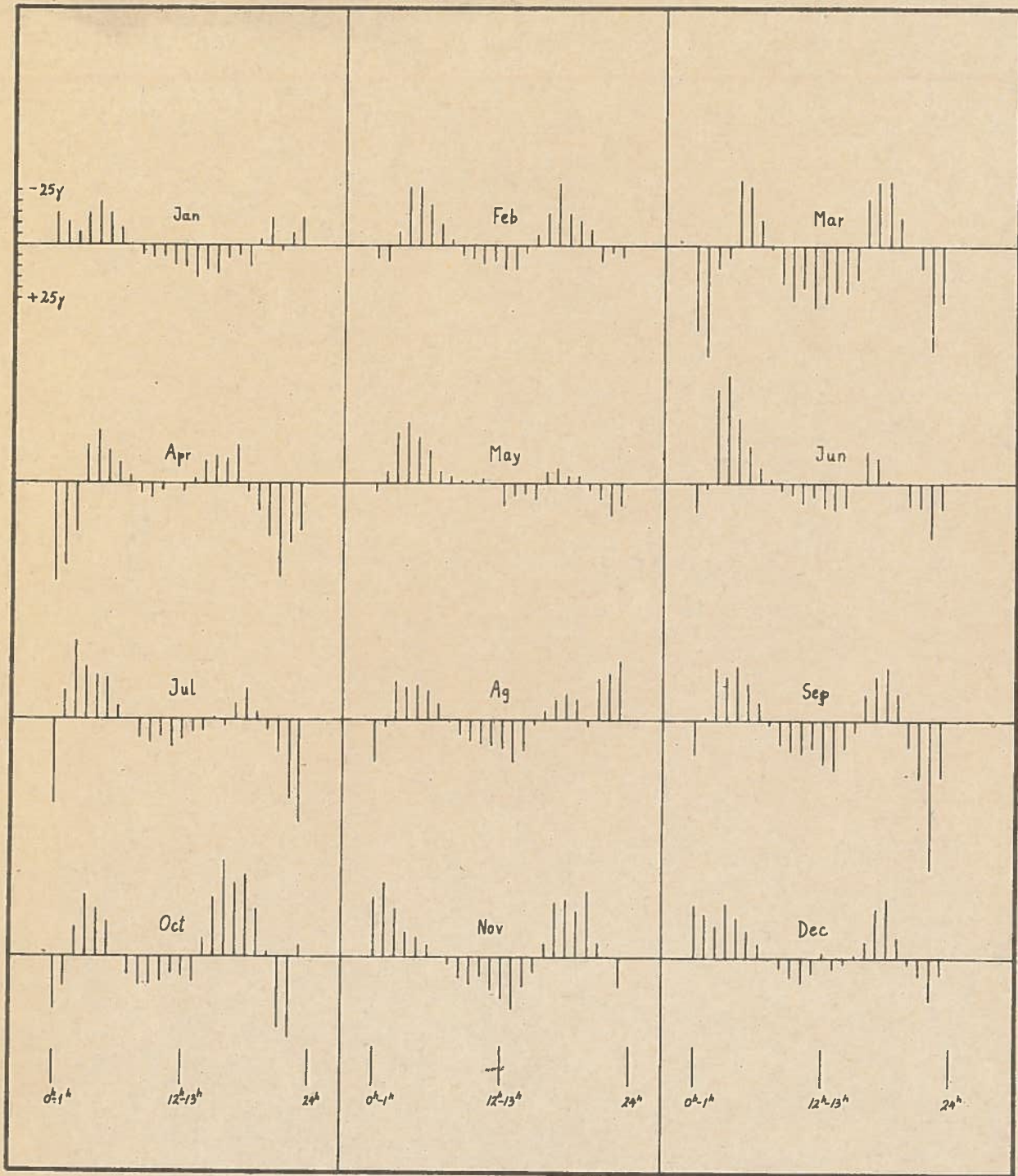
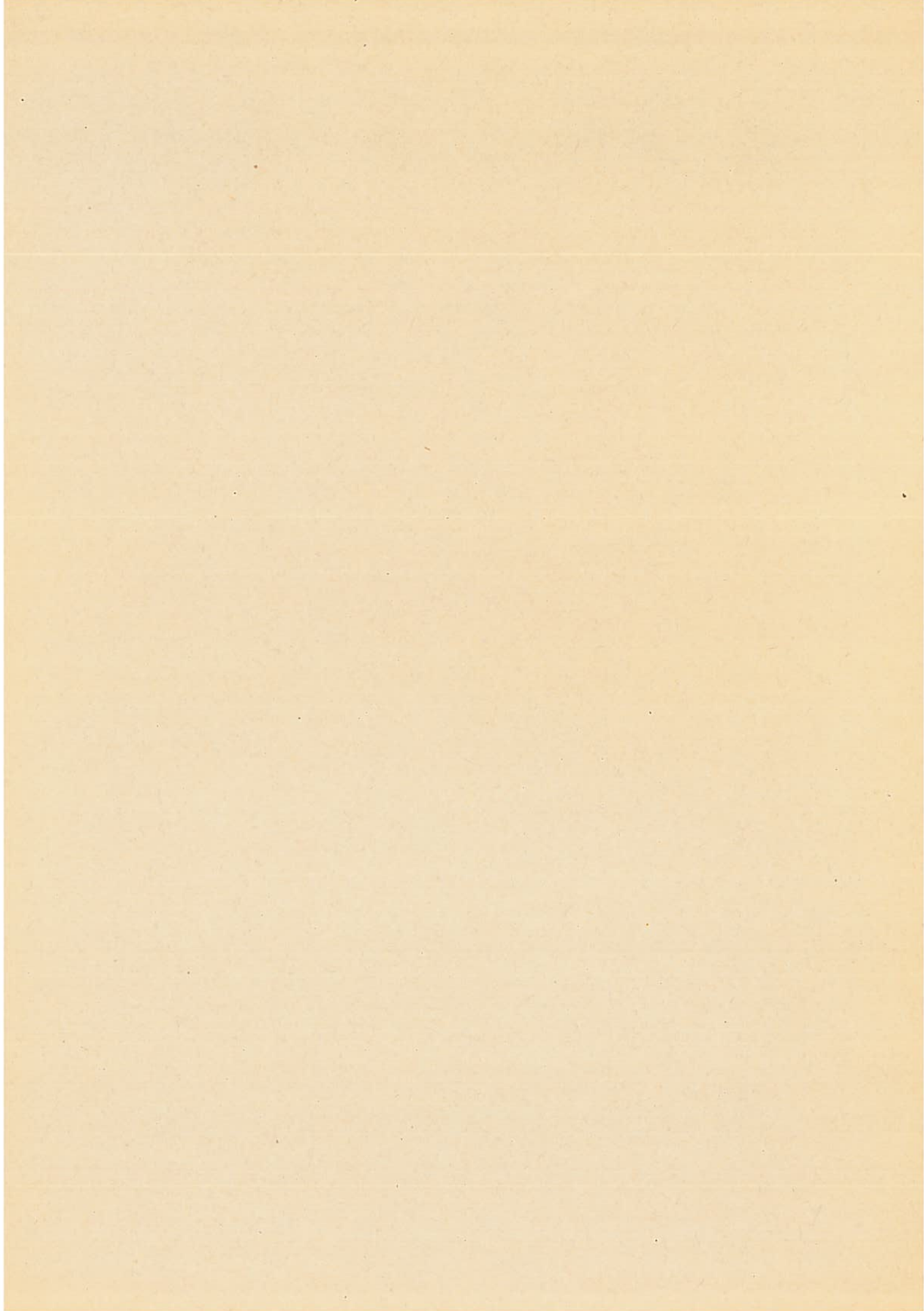
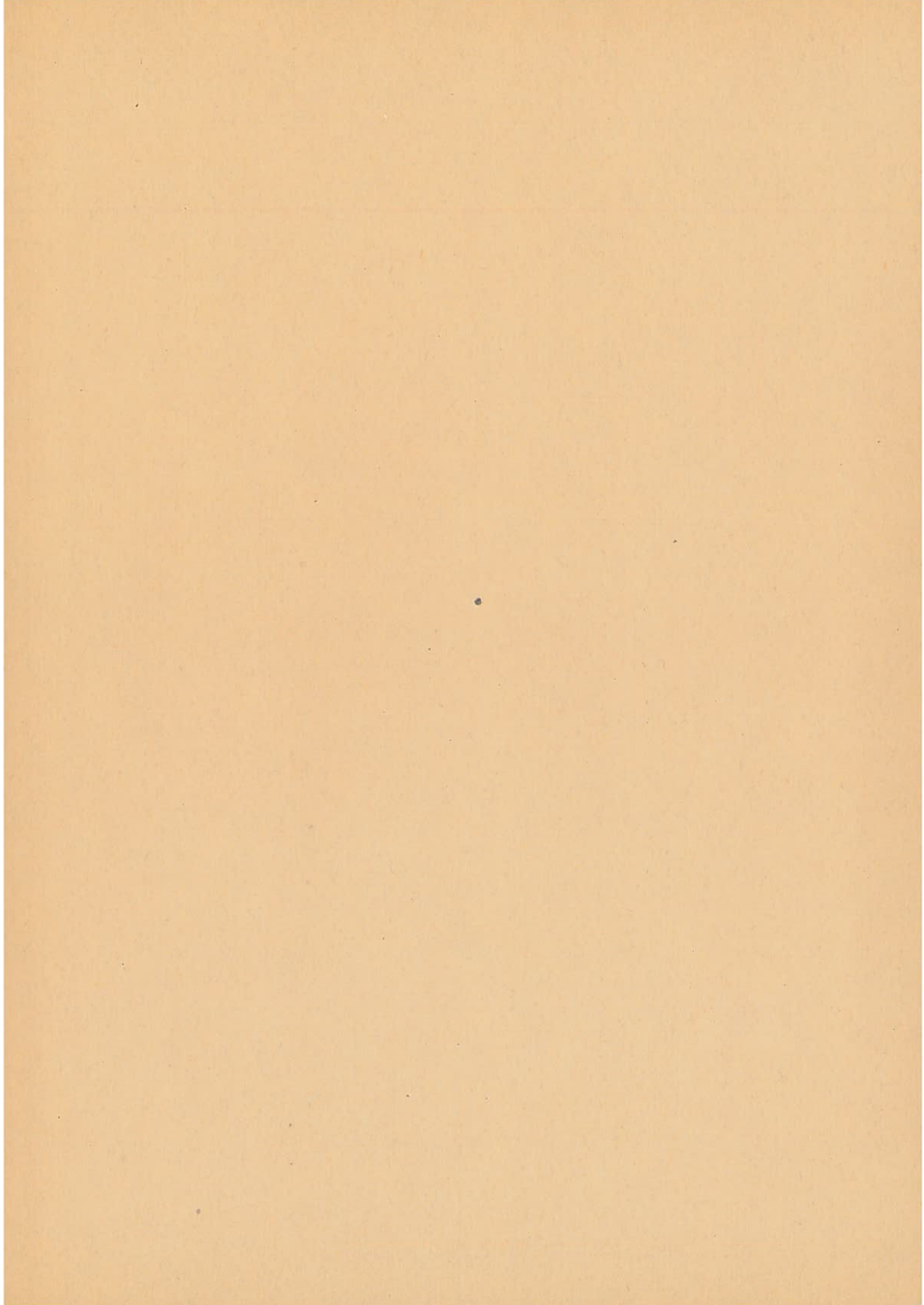


Fig. 4. Diagrams of the Monthly Mean Values ( $M$ ) of the Storminess of the Vertical Intensity.





## Publikasjoner fra Det norske Institutt for Kosmisk Fysikk.

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1. The Auroral Observatory at Tromsø by The Executive Committee. 1932.
2. The Auroral Observatory at Tromsø. Results of Magnetic Observations for the Year 1930 by LEIV HARANG, O. KROGNESS and E. TØNSBERG. 1933.
3. The Auroral Observatory at Tromsø. Results of Magnetic Observations for the Year 1931 by LEIV HARANG and E. TØNSBERG. 1933.
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