

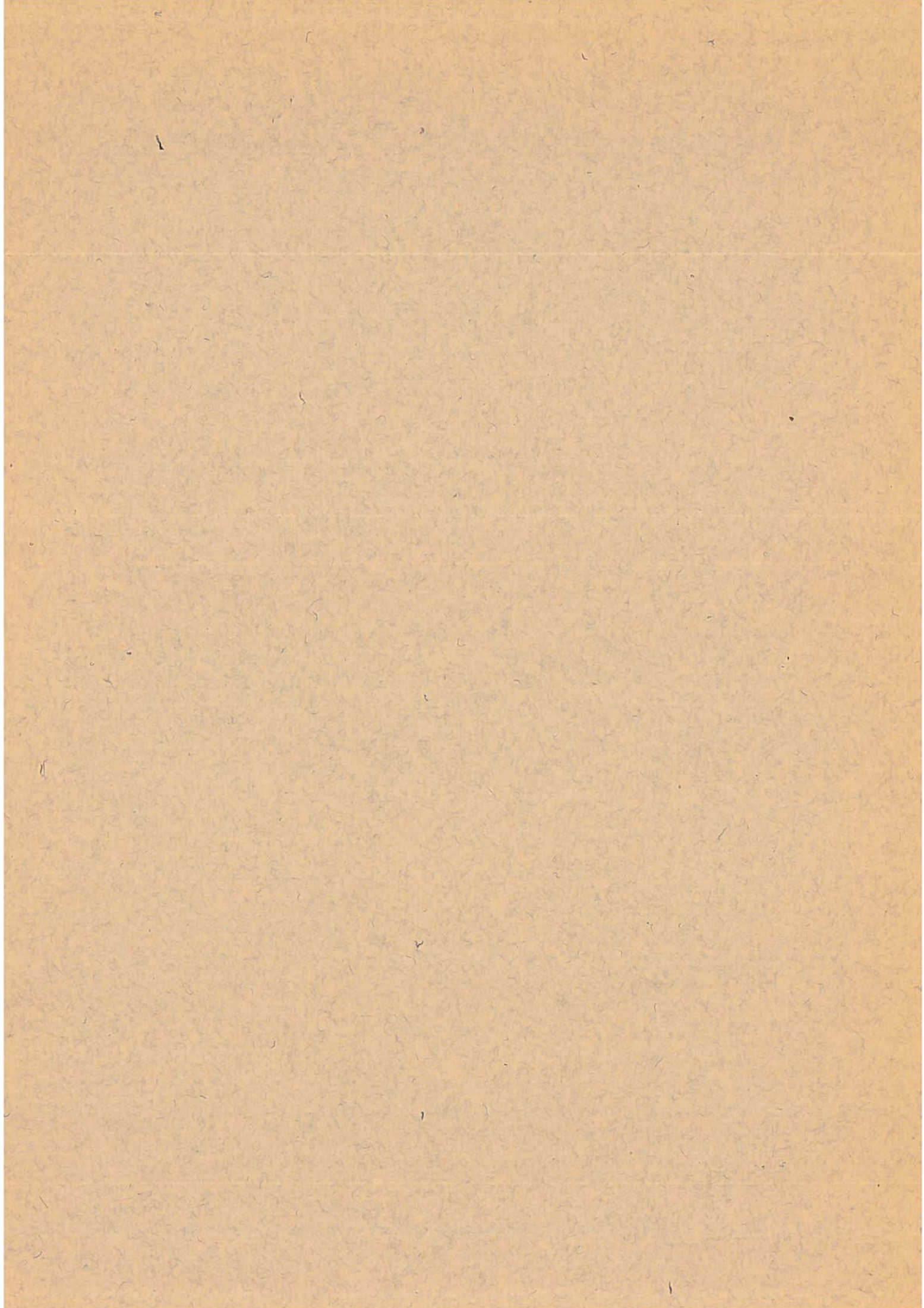
Publikasjoner fra  
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK  
Nr. 22

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 1941

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

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RESULTS OF MAGNETIC OBSERVATIONS  
FOR THE YEAR 1941

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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 made by E. TØNSBERG. The reading of the hourly values and the calculation work being performed by Mrs. ANNA JAKLIN.

SCALE VALUES.

The following scale-values have been determined:

D-curves: 1'.45 or 4.76  $\gamma$  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 are stated 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 through the year is  $77^{\circ}23'.4$ .

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
I. 9	2°26'.8 W	2°26'.6 W	11169	11170
11	26.4	.6	72	70
14	26.6	.6	69	70
23	26.6	.6	73	70
29	26.7	.6	71	70
II. 20	26.8	.6	67	70
III. 13	26.7	.6	70	70
18	26.5	.6	70	70
IV. 19	26.0	.6	67	70
V. 8	26.5	.6	65	70
28	26.8	.6	69	70
VI. 18	26.9	.6	71	70
VII. 30	25.3	25.3	73	70
X. 21	23.8	24.0	71	70
XI. 22	24.2	.0	68	70
XII. 4	24.1	.0	64	64
20	24.0	.0	62	64

## 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  $M$  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 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  $CH$  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.



Tromsø.

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

Gr. M. T.

JANUARY 1941.

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	200	210	210	220	240	240	240	250	240	240	240	240	270	300	140	330	240	200	260	390	60	160	180	228	96		
2	90	90	165	200	210	235	235	235	240	240	240	255	255	250	285	235	165	210	235	235	270	210	180	213	52		
3	210	230	230	235	235	235	235	230	230	245	250	250	250	250	260	270	270	270	180	290	150	220	210	234	44		
4	75	110	170	170	200	240	240	260	230	210	235	280	280	260	270	240	240	240	230	230	210	210	210	216	36		
5	230	235	235	235	240	240	250	265	275	275	250	270	260	250	275	270	270	270	270	250	275	250	235	252	9		
6	120	-30	-180	-330	-300	90	180	275	300	260	270	250	240	250	250	250	290	275	275	275	200	210	210	195	87		
7	210	180	200	210	205	205	220	240	240	275	250	260	260	250	335	200	660	330	290	250	240	240	-30	250	142		
8	210	230	200	210	180	200	210	250	240	240	240	240	280	250	230	240	240	270	255	275	275	200	90	60	75	64	
9	120	180	210	140	200	220	240	230	260	270	260	300	390	310	425	260	230	240	240	270	250	200	190	230	275	230	77
10	380	50	170	180	200	210	220	240	235	240	240	275	255	260	275	275	260	210	240	30	150	200	170	210	213	68	
11	140	90	80	150	170	200	180	200	210	200	240	260	290	300	290	270	230	260	260	240	270	240	90	180	204	80	
12	150	140	210	230	230	210	220	240	235	235	240	270	250	270	260	300	270	230	250	260	240	180	220	60	222	55	
13	90	120	210	220	210	220	220	220	230	240	235	270	265	240	240	240	240	270	255	290	260	210	180	180	222	84	
14	170	210	180	220	210	210	210	230	240	240	230	240	240	240	230	230	230	230	230	250	250	270	240	180	230	32	
15	180	230	170	180	200	210	210	240	240	260	270	270	240	250	260	260	250	240	240	230	240	240	230	230	228	26	
16	210	210	230	235	235	230	220	235	275	280	240	245	275	300	350	455	300	340	220	220	220	210	210	180	249	48	
17	90	-610	-330	230	230	260	270	270	300	350	290	380	350	300	440	180	60	300	210	200	90	240	0	-80	165	194	
18	170	50	110	120	270	280	320	270	260	290	210	270	270	270	240	180	-200	270	-180	200	240	90	240	185	131		
19	240	90	120	180	210	270	270	260	210	180	240	230	260	330	140	230	230	-50	230	240	210	240	30	90	192	91	
20	0	60	120	180	240	240	240	210	240	240	270	260	230	230	230	230	220	220	220	210	350	30	170	200	87		
21	210	180	120	240	220	210	230	240	240	240	240	240	240	240	240	240	240	240	240	240	200	210	210	219	26		
22	220	230	210	240	240	230	240	240	270	270	270	270	270	270	270	270	270	270	270	150	140	180	140	180	228	73	
23	140	150	180	180	210	220	240	250	240	240	270	270	270	270	270	270	270	270	270	230	230	0	120	0	205	126	
24	140	90	200	180	140	140	240	270	260	260	260	290	210	140	80	80	300	300	350	300	170	450	80	110	207	93	
25	110	120	200	90	90	300	180	230	210	230	230	240	270	290	210	170	240	150	240	210	180	150	208	90	208	90	
26	-180	-240	140	180	210	230	290	290	300	240	240	270	300	240	350	210	230	240	250	110	330	80	140	210	138		
27	200	180	180	210	200	240	240	240	260	230	230	240	300	270	140	270	180	120	200	270	260	200	160	260	111		
28	110	120	210	180	180	240	240	240	240	240	270	260	290	250	270	230	210	240	210	360	170	230	30	140	185	65	
29	170	230	240	240	210	210	210	210	210	220	240	240	240	240	240	230	230	240	200	210	220	210	210	190	160	150	
30	90	170	200	140	150	180	230	260	240	240	270	280	270	240	270	300	240	290	300	150	240	240	230	150	192	73	
31	180	200	210	220	220	220	230	230	240	260	270	250	240	230	240	220	220	240	230	210	210	210	210	192	15	196	16
M	150	111	153	174	189	219	237	240	246	246	246	258	264	258	252	246	231	231	246	210	222	216	156	156	216	74	
QM	225	225	225	220	215	215	225	230	235	235	240	245	245	250	255	255	255	255	255	250	245	245	240	230	225	237	

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	215	210	210	210	205	200	205	210	255	240	255	255	245	250	305	335	345	335	305	305	255	225	200	195	246	26
2	210	215	205	200	200	205	205	210	215	215	255	255	255	255	235	225	235	240	265	275	210	150	205	210	222	22
3	210	195	-30	150	150	110	200	200	90	90	240	260	320	360	270	270	240	270	240	260	210	210	120	180	208	123
4	120	110	-30	170	150	180	180	180	220	230	240	270	330	300	330	270	300	300	330	240	270	230	200	180	208	77
5	180	150	90	240	180	170	180	230	240	240	260	270	300	300	360	300	320	300	360	300	150	-60	60	30	213	99
6	60	120	-180	0	140	180	240	250	240	240	230	270	350	270	380	330	360	290	300	180	200	200	120	210	113	
7	-240	-360	-30	90	0	30	210	270	260	240	240	270	270	320	270	230	270	150	150	200	330	180	300	-60	147	167
8	60	60	90	60	150	170	210	240	240	270	260	270	270	260	90	210	280	60	240	260	240	120	150	186	109	
9	60	60	110	90	200	240	270	320	270	300	240	250	240	270	270	240	230	250	210	60	-200	120	210	240	192	87
10	140	60	170	120	180	260	240	270	250	270	260	270	270	270	270	270	240	300	320	330	210	240	210	234	49	
11	120	140	180	200	190	210	240	230	260	250	255	255	265	250	265	275	315	335	315	210	240	270	225	75	228	59
12	140	110	120	140	170	190	210	230	240	240	260	240	240	230	240	240	240	240	240	150	200	270	180	180	205	56
13	90	-90	120	140	190	230	240	260	240	260	290	330	330	350	270	270	360	230	240	270	200	150	60	-60	225	125
14	120	-60	0	30	140	240	230	270	260	260	140	230	290	260	260	150	210	250	270	180	300	240	210	30	190	81
15	-60	230	-60	80	110	260	290	290	260	260	230	230	270	290	330	210	180	140	210	90	180	210	200	150	190	109
16	170	150	0	200	210	230	220	210	230	230	230	230	240	250	260	260	250	260	210	270	230	230	60	180	157	107
17	90	90	170	110	170	210	270	290	260	240	210	270	240	230	240	210	270	230	-270	180	90	180	150	160	124	
18	150	140	180	180	210	220	230	240	240	240	260	240	230	240	230	220	230	240	210	300	140	200	200	210	44	44
19	210	210	205	205	210	205	205	215	215	240	235	240	235	235	240	255	240	295	240	235	225	215	205	225	47	47
20	210	205	205	210	215	225	225	250	240	255	270	270	270	270	240	255	270	270	250	270	255	-60	60	216	111	111
21	120	90	-210	170	210	240	210	220	270	240	240	240	300	330	260	180	170	300	180	230	420	180				



Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1941.

HOURLY MEAN VALUES

Table for January 1941 showing magnetic observations (DAY, 1-25, M, PS, NS, AS) and summary statistics (MPS, MNS).

FEBRUARY

Table for February 1941 showing magnetic observations (DAY, 1-28, M, PS, NS, AS) and summary statistics (MPS, MNS).

MARCH

Table for March 1941 showing magnetic observations (DAY, 1-31, M, PS, NS, AS) and summary statistics (MPS, MNS).

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

Gr. M. T.

APRIL 1941.

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	80	120	150	135	135	125	145	165	180	210	240	240	225	180	195	210	205	205	195	80	120	-45	159	58	
2	-110	50	-30	80	110	150	170	170	200	210	250	290	330	360	300	320	320	300	290	290	-30	180	210	170	180	86
3	80	110	-30	80	120	150	170	200	210	250	290	330	360	300	320	320	300	290	290	-30	180	150	150	180	29	
4	120	60	120	150	185	180	195	195	210	225	270	240	215	205	205	195	210	205	180	180	150	155	105	180	29	
5	150	165	165	150	150	150	180	185	180	180	225	255	255	215	215	215	210	195	205	205	45	-90	-30	168	58	
6	60	0	60	0	80	80	180	205	225	225	255	270	300	285	285	270	240	235	245	255	60	50	150	177	71	
7	125	175	175	175	180	165	150	140	180	210	240	300	330	330	330	270	255	255	255	240	225	-60	180	-30	168	158
8	-50	80	140	150	150	150	170	180	210	230	270	270	270	270	240	260	270	240	150	240	210	210	0	177	93	0
9	-110	90	120	-120	150	240	240	210	210	220	270	320	360	300	270	260	260	260	240	240	240	240	150	110	198	77
10	150	170	150	150	170	180	180	210	240	240	240	270	270	270	270	410	270	420	330	210	180	210	-360	-180	190	170
11	80	60	140	80	90	150	150	180	180	170	270	300	240	240	270	260	300	210	330	250	30	140	90	177	71	
12	120	60	0	-30	80	170	170	200	200	210	240	300	270	270	260	230	150	240	240	270	210	200	200	140	186	52
13	180	120	150	165	165	160	165	175	195	210	270	270	270	270	240	210	210	195	180	180	165	195	192	26	26	
14	205	180	160	150	150	165	180	190	195	205	225	240	240	240	225	210	205	205	190	195	200	205	205	190	198	13
15	180	175	165	160	150	160	150	175	195	240	270	265	270	225	225	215	215	225	235	235	235	210	195	204	19	
16	210	-90	60	120	140	150	170	180	200	260	270	290	270	270	240	230	210	210	210	210	200	210	180	210	190	58
17	195	185	180	180	175	150	150	180	195	210	235	240	255	285	285	270	270	300	255	255	195	195	190	205	216	15
18	140	-30	80	140	150	180	180	200	210	235	255	255	210	255	255	240	240	225	255	210	165	-160	80	160	124	81
19	-20	20	20	110	150	-80	90	-20	-50	240	260	230	270	270	240	290	290	350	170	180	210	170	20	170	147	81
20	90	60	140	140	170	170	150	200	180	210	240	260	260	270	270	240	230	240	260	240	180	60	270	30	189	125
21	80	50	110	150	120	150	170	170	180	180	210	230	240	240	240	240	230	300	260	120	150	170	180	180	83	
22	180	180	180	170	160	170	170	190	190	210	220	240	260	240	240	240	240	240	200	230	210	210	180	170	205	25
23	175	165	160	150	145	150	160	160	175	195	225	235	245	240	220	210	215	225	220	210	205	205	195	180	192	7
24	150	165	135	115	180	120	150	150	80	30	240	480	480	450	600	1050	900	480	210	450	330	120	210	150	305	131
25	-270	-339	-510	-210	-30	0	90	200	150	150	150	270	330	350	300	330	350	390	110	330	270	180	60	-150	115	186
26	-60	-60	60	120	120	90	150	150	90	200	230	230	230	210	210	230	230	230	240	160	50	-180	-240	117	65	
27	-120	80	120	180	120	140	140	150	170	200	230	240	240	240	210	230	250	300	290	180	150	90	165	74	0	
28	170	150	120	30	110	170	170	210	210	210	240	240	260	330	360	300	330	360	300	330	230	240	90	30	218	125
29	0	-750	-420	-140	110	170	140	150	210	240	260	240	235	225	210	205	200	195	185	205	210	195	155	120	105	238
30	60	105	60	0	90	165	175	185	180	180	210	225	235	225	210	205	195	185	180	180	185	185	175	165	165	25
M	72	45	63	85	142	141	156	168	175	192	231	261	273	276	270	279	267	258	228	231	202	147	90	85	180	81
QM	190	180	175	165	160	160	165	175	185	205	225	240	240	240	230	225	220	215	210	210	205	200	195	180	200	

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	165	160	150	150	145	145	145	155	155	180	195	240	255	285	295	300	300	360	510	360	330	150	-60	-30	30	205	112
2	120	90	-30	-110	-30	80	110	150	210	240	260	260	290	300	300	295	270	240	120	90	0	168	90	0	168	90	
3	60	0	60	30	30	90	150	190	225	245	270	270	270	270	270	290	295	300	320	285	210	105	155	145	185	64	
4	150	120	90	90	90	90	260	260	210	270	300	300	270	260	220	260	270	260	230	180	120	140	150	190	47	0	
5	150	180	140	180	120	135	150	180	205	210	240	240	245	250	235	225	240	240	235	210	205	195	195	195	29	0	
6	180	150	150	120	120	120	140	170	190	230	230	240	240	240	260	240	260	300	300	330	110	200	200	180	200	58	
7	180	200	120	50	20	140	180	180	180	210	240	240	240	240	240	230	230	240	230	240	210	80	180	190	186	29	
8	180	170	150	150	150	150	160	170	180	210	240	260	320	320	270	270	290	290	300	360	260	180	110	150	220	77	
9	150	120	90	60	150	200	240	270	210	230	270	300	300	270	240	210	210	220	240	260	150	210	210	150	210	35	
10	-30	-420	-80	60	110	140	140	180	210	210	240	270	270	260	260	270	270	290	270	240	210	180	170	150	160	128	
11	60	30	120	120	120	140	150	170	180	200	210	240	240	255	225	210	205	210	210	205	205	210	195	180	210	32	
12	180	140	150	150	150	150	170	180	210	230	260	270	270	270	270	270	270	270	260	210	110	50	0	195	83		
13	-230	-90	30	90	140	180	230	210	200	240	290	300	330	320	290	270	320	270	260	240	210	180	180	200	108	0	
14	180	150	140	120	110	120	150	165	195	210	225	255	255	240	240	245	225	235	235	235	225	215	195	135	195	59	
15	-240	-140	50	90	110	110	90	150	170	210	260	270	270	270	250	240	240	240	270	250	240	210	150	165	76	0	
16	-30	-50	60	140	180	180	160	180	210	240	240	240	300	280	380	300	330	300	290	260	240	230	200	170	215	68	
17	170	150	150	170	140	-50	90	90	110	120	110	180	240	250	290	320	300	290	270	260	200	180	80	80	170	71	
18	30	30	120	90	120	170	180	170	190	230	240	240	240	240	240	240	240	240	260	170	110	140	90	80	170	44	
19	90	80	90	60	110	150	120	140	150	170	200	240	240	225	225	235	240	270	240	225	205	195	180	177	32	0	
20	165	150	145	150	135	120	120	135	160	195	240	240	245	235	235	225	235	240	240	225	195	150	90	190	19	0	
21	-50	-90	60	90	90	90	80	140	200	240	290	300	290	300	380	450	500	390	390	240	340	-240	-90	186	180	0	
22	-150	-330	-420	-690	90	240	180	180	210	270	270	240	240	390	360	270	270	320	330	420	-120	120	90	130	239	0	
23	30</																										

Tromsø.

Declination, Storminess (+ W). Unit Gamma.

Gr. M. T.

APRIL 1941.

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	-43	-55	-17	0	0	0	0	0	0	0	0	0	0	0	-15	-8	0	0	0	-3	-42	-25	-78	-11	0	266	266		
2	-98	-45	-68	-20	-18	-3	0	0	3	0	12	15	30	40	23	30	7	0	0	10	0	-87	-45	-43	-11	170	437	607	
3	-38	-25	-118	-65	-23	-13	-6	-3	-3	-5	18	20	20	43	25	57	28	25	80	-8	-17	-5	-8	-7	249	406	655		
4	-23	-40	-18	-6	0	0	0	0	0	0	13	10	0	-8	-10	-7	-8	0	0	-10	-8	-17	-30	-28	-8	23	212	235	
5	-13	-5	-3	-5	-3	-3	5	0	0	-8	0	5	5	-5	-3	0	0	-5	0	0	-52	-95	-73	-11	20	273	293		
6	-43	-60	-58	-55	-28	-28	5	10	13	7	10	10	20	15	20	18	17	8	8	12	17	-47	-55	-13	-7	190	367	557	
7	0	0	0	0	0	0	0	0	0	0	0	0	20	20	30	33	15	12	15	10	7	-87	-125	-73	-5	174	285	459	
8	-78	-40	-13	-5	-3	-3	-5	-3	0	0	8	10	10	3	10	17	8	-20	8	0	0	-15	-63	-7	74	248	322		
9	-98	-30	-18	-95	-3	32	25	12	8	5	15	10	25	40	23	15	12	13	15	8	10	0	-17	-28	-1	268	289	557	
10	-13	-5	-8	-5	0	7	5	-8	18	0	5	0	10	10	13	60	17	68	40	0	-8	3	-185	-123	-4	256	355	611	
11	-38	-40	-13	-30	-23	0	-5	0	0	-15	15	18	0	0	13	10	27	0	40	5	-58	-22	-35	-33	-4	128	310	438	
12	-23	-40	-58	-65	17	0	0	0	7	3	0	5	20	10	10	8	0	-23	8	10	20	0	0	-18	-5	118	287	345	
13	-23	-20	-8	0	0	0	0	0	0	0	0	15	8	8	13	5	-3	0	0	-5	-8	-7	-10	0	-1	49	84	133	
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	10	15	10	0	0	0	0	0	5	8	10	10	5	0	4	88	0	88	
16	7	-90	-58	-15	-8	-3	0	0	0	-3	10	-10	15	10	13	5	0	0	0	0	0	0	5	5	-4	70	157	237	
17	0	0	0	0	0	0	0	0	0	0	0	3	5	15	18	15	17	28	15	8	-3	0	0	5	-5	129	3	132	
18	-18	-70	-53	-10	-3	7	5	7	0	0	3	5	5	10	8	10	7	8	5	5	0	-12	-125	-38	-10	75	319	394	
19	-68	-55	-55	-20	-3	-78	-25	-63	-77	12	10	-5	10	-3	3	20	22	43	-5	-10	0	-12	-60	-8	-18	130	552	682	
20	-33	-40	-13	-10	0	-5	7	0	0	3	5	5	10	13	5	0	7	15	10	-8	-47	25	-53	-4	105	209	314		
21	-68	-45	-23	-5	-13	0	0	-3	0	-8	-5	5	10	0	3	5	3	30	15	-28	-17	-10	-3	-6	74	218	292		
22	-3	0	0	0	0	0	0	5	0	0	0	0	5	5	3	3	5	8	-5	5	0	3	-5	-8	1	42	21	63	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	-13	-5	-13	-17	-13	-13	-7	-8	-37	-58	5	60	80	70	123	275	227	88	0	80	42	-27	5	-13	-35	1055	224	1279	
25	-163	-170	-228	-125	-63	-25	7	-12	-18	-28	10	30	35	23	35	22	58	-35	40	22	-7	-45	-113	-28	355	1019	1374		
26	-83	-80	-58	-15	-13	-23	-5	-8	-12	-38	-10	-5	-5	-7	-5	0	3	5	8	-8	-52	-125	-143	-28	16	680	696		
27	-103	-55	-18	-17	-13	-8	-10	-8	-7	-3	0	0	0	0	-5	0	10	30	25	-8	-17	-35	-33	-11	65	340	405		
28	-8	-10	-18	-45	-18	0	0	10	8	0	5	0	5	30	43	25	42	48	30	40	7	13	-35	-53	-5	306	187	493	
29	-63	-310	-200	-100	-18	0	-10	-8	8	12	5	0	0	0	0	0	0	0	0	0	0	-20	-23	-50	37	752	789		
30	-43	-25	-58	-55	-23	0	3	5	0	-8	0	0	0	0	0	0	0	0	0	0	0	5	0	-7	13	192	205		
M	-39	-45	-36	-26	-9	-3	-2	-1	-3	-4	3	8	11	12	14	16	15	7	7	-1	-18	-35	-35	-6	143	288	431		
MPS	0	0	0	0	1	3	2	2	2	1	5	8	11	13	14	19	18	15	10	11	4	1	2	0					
MNS	39	45	36	26	10	6	3	4	5	5	1	0	1	1	1	1	1	0	3	4	5	19	37	36					

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	PS	NS	AS	
1	0	0	0	0	0	0	0	0	0	0	8	5	13	15	20	22	43	95	45	37	-22	-88	-75	-50	3	303	235	538
2	-15	-25	-60	-85	-37	-22	-15	-5	10	15	13	5	13	18	20	20	13	10	5	17	8	-28	-35	-60	-10	167	405	572
3	-35	-53	-30	-40	-37	-17	0	2	0	0	0	0	0	0	0	0	10	22	18	-2	-53	-20	-12	-9	52	279	331	
4	-5	-13	-20	-20	-17	-17	-45	0	25	5	18	20	18	8	5	-7	8	15	10	2	-12	-28	-20	-10	-2	164	214	378
5	-25	-13	-5	-12	-7	-2	0	2	3	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	-2	25	64	91
6	5	-3	0	-10	-7	-7	-5	0	0	10	3	0	-5	-5	5	0	8	25	25	37	-37	-3	0	0	2	118	82	200
7	5	12	10	-35	-42	0	10	5	0	3	7	0	0	0	0	-3	0	5	3	7	0	-43	-5	0	-3	57	138	195
8	3	0	0	0	0	0	0	0	0	5	8	5	23	23	10	10	18	20	25	52	13	-8	-30	-10	7	218	48	266
9	-5	-13	-20	-30	3	18	30	35	10	10	18	20	18	8	0	-8	-7	-3	5	12	-22	0	5	-10	3	192	118	310
10	-65	-193	-75	-30	-12	0	-5	5	8	5	8	10	8	3	5	12	10	20	15	7	0	-8	-10	-10	-12	116	408	524
11	-35	-43	-10	-10	-7	0	0	0	0	0	0	-5	0	0	0	0	0	0	0	0	0	0	0	0	-5	0	110	110
12	0	-10	0	0	3	3	0	0	0	5	5	5	13	8	10	12	10	12	15	12	0	0	-58	-60	-1	111	125	236
13	-135	-85	-40	-20	0	13	25	15	5	15	23	20	28	18	25	23	13	30	15	22	8	0	-5	0	1	236	285	583
14	5	-3	-5	-8	-12	-7	0	-5	5	5	3	5	0	0	0	-5	0	0	0	0	0	0	0	-15	-2	23	60	83
15	-135	-100	-35	-18	-12	-12	-20	-5	-5	5	13	8	8	5	3	0	3	5	15	10	8	12	0	-10	-11	95	352	447
16	-65	-68	-30	-3	13	13	0	5	10	13	8	0	18	43	45	22	33	25	20	12	8	7	0	-6	5	295	171	465
17	0	-3	0	7	0	-82	-20	-25	-25	-37	-20	0	-7	15	27	23	20	15	12	-7	-8	-40	-36	-8	119	314	435	
18	-45	-43	-10	-18	-7	8	10	0	0	10	7	0	-5	0	0	0	3	10	-18	-37	-23	-35	-35	-10	-48	48	276	324
19	-25	-28	-20	-28	-12	3	-10	-10	-10	-10	-7	0	0	0	0	0	0	0	16	5	0	0	0	-6	23	160	183	
20	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3	-15	-30	-2	11	48	59	
21	-70	-85	-30	-18	-17	-17	-25	-10	5	15	23	20	13	15	15	22	48	75	90	57	58	12	-185	-90	-3	471	545	1016
22	-105	-163	-190	-278	-17	33	10	5	10	25	18	0	0	48	20	42	13	15	30	37	68	-108	-25	-50	-23	374	515	1290
23	-45	-53	-90	-43	-47	-17	-20	-15	-10	-15	18	20	43	8	50	42	23	55	75	-13	0	-8	-145	-60	-10	334	581	915
24	-135	-253	-240	-138	-87	8	-20	-15	10	5	3	-10	18	18	30	32	13	75	65	42	18	-103	-125	-70	-58	357	1206	1543
25	-30	-43	-50	-48	-42	3	-10	-5	-15	5	13	10	8	38	50	32	23	50	55	47	23	0	-60	-35	1	357	338	695
26	-65	-43	-30	-3	3	-2	-5	0	0	8	5	8	3	-10	7	18	25	25	0	8	-38	-45	-70	-9	110	316	426	
27	-55	-28	-10	-18	-27</																							

Tromsø.

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

Gr. M. T.

JULY 1941.

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	-270	-110	0	90	180	120	150	180	200	230	240	270	280	270	250	240	250	270	230	210	180	60	155	105	
2	0	-80	0	90	90	95	75	45	180	155	155	155	155	225	225	210	210	210	205	210	210	185	175	144	52	
3	150	90	180	180	90	90	90	110	150	170	200	260	280	280	280	280	280	280	270	250	250	150	110	200	74	
4	150	180	180	120	80	80	150	150	200	150	150	200	210	240	240	270	420	450	510	570	540	150	200	140	230	
5	-30	-240	-180	-450	-140	-80	-870	-960	-1350	-1050	-1590	-1200	-90	240	270	450	180	300	410	360	530	270	90	-60	-192	
6	-60	-30	30	90	60	60	60	90	110	140	120	210	200	420	300	600	420	480	440	180	180	60	-150	-600	148	
7	-350	-240	-80	-210	-260	0	90	0	90	180	800	200	210	210	210	210	210	210	210	210	210	210	210	210	210	
8	60	70	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
9	125	85	60	90	60	60	65	100	115	145	165	195	225	240	210	180	210	240	255	315	240	210	225	195	0	
10	-210	-150	-250	30	80	60	110	90	140	180	200	230	270	300	300	350	420	390	360	390	290	-390	-300	-170	108	
11	30	30	60	90	110	170	180	210	210	210	270	230	210	230	230	230	240	210	195	240	210	175	150	175	39	
12	150	140	180	90	90	110	180	170	210	180	200	240	330	180	200	210	190	190	190	180	180	150	140	170	39	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	90	90	90	90	70	70	90	120	150	150	180	200	220	210	205	200	200	180	180	195	195	105	150	180	42	
15	115	90	60	60	60	70	90	120	150	150	180	200	240	270	260	240	250	250	240	240	240	240	180	170	26	
16	80	80	80	-80	30	30	90	90	140	150	200	230	290	290	350	260	300	350	330	300	230	0	-80	-170	93	
17	180	0	180	80	60	120	120	170	800	210	240	240	260	270	270	240	210	200	240	210	170	120	50	155	73	
18	0	0	-60	60	90	90	90	110	150	210	230	240	240	230	210	210	230	240	270	200	170	150	180	150	49	
19	110	110	20	60	80	100	110	110	120	150	210	230	240	240	240	240	240	240	210	210	230	110	0	156	54	
20	-30	-20	0	30	30	90	120	90	120	200	200	260	290	300	270	260	270	210	240	240	210	120	150	160	50	
21	60	-60	-150	30	120	150	-60	30	-170	-60	30	270	230	260	240	240	270	320	300	350	150	120	170	130	158	
22	60	-120	230	-240	-30	120	140	180	150	150	180	230	230	270	330	350	330	290	270	270	260	210	210	90	150	
23	90	0	-150	-240	60	120	140	180	180	170	180	180	240	300	270	210	240	240	210	240	270	260	200	30	150	
24	30	-410	-140	-50	20	60	120	150	140	150	210	230	270	270	200	260	240	260	300	270	180	140	80	90	125	
25	90	120	180	80	80	90	60	110	180	200	210	240	260	240	290	270	240	240	230	200	210	160	140	140	155	35
26	135	120	105	85	85	85	75	100	130	150	205	225	265	255	255	245	240	235	225	225	210	185	90	120	168	
27	105	90	115	95	95	105	120	135	145	180	225	255	295	285	270	240	225	210	215	215	225	180	180	123	20	
28	90	80	90	90	75	90	120	150	180	210	240	255	285	270	255	245	240	240	240	240	235	215	180	180	165	
29	145	120	90	120	105	90	105	120	125	180	225	270	295	285	245	235	240	250	255	255	215	180	105	190	25	
30	90	110	110	90	70	60	80	120	150	210	240	260	300	270	240	230	230	230	240	240	270	300	110	60	190	
31	140	120	120	120	110	90	120	170	180	200	250	260	300	290	260	230	240	230	240	240	270	300	110	60	190	
M	42	-20	12	15	48	80	85	80	87	128	138	183	243	260	252	265	258	260	270	255	245	160	110	67	147	84
QM	150	150	120	110	105	105	115	130	140	165	190	210	230	240	240	235	225	215	210	200	185	170	160	145	170	

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	110	90	120	120	130	130	140	150	170	200	230	300	300	300	270	270	300	350	380	350	150	210	90	215	56
2	180	20	-60	-110	80	170	90	210	90	120	260	270	350	350	390	390	660	570	450	540	410	320	150	30	245
3	-60	-30	80	90	120	140	120	180	180	200	210	270	270	290	300	300	320	270	300	260	60	90	120	180	74
4	20	-630	-390	60	-270	-150	120	90	20	90	150	120	-540	-60	540	440	660	540	450	390	350	-120	-300	30	65
5	90	-120	-360	-600	-60	30	90	150	180	180	240	270	300	320	330	390	390	390	360	360	90	300	210	150	200
6	110	120	90	80	80	80	30	140	150	150	240	300	360	360	380	360	350	350	420	560	290	-60	220	100	
7	-900	-540	-450	-120	50	110	150	170	210	240	270	300	300	290	270	260	270	260	290	270	260	140	60	100	68
8	80	80	80	80	90	90	110	120	170	180	200	210	240	240	240	220	200	190	210	220	200	170	170	150	160
9	150	150	140	140	130	120	120	140	160	190	220	270	290	270	255	225	225	225	215	215	210	195	150	150	180
10	135	125	145	120	115	105	115	125	160	180	210	235	240	235	225	210	210	210	215	220	205	180	165	180	12
11	140	50	110	90	90	60	60	90	150	210	260	290	330	300	290	270	280	300	260	300	200	140	50	190	65
12	180	180	90	110	110	90	150	170	180	230	260	270	320	300	255	235	220	210	210	235	180	105	-15	180	47
13	-80	-30	90	120	110	80	150	170	180	200	240	260	300	270	270	290	300	260	230	230	220	210	180	150	183
14	120	90	120	60	0	90	140	140	170	200	240	270	270	280	230	240	240	240	240	200	180	160	170	180	19
15	150	110	-30	60	80	90	120	150	165	195	225	265	270	255	240	210	210	205	205	195	185	180	175	170	39
16	175	165	155	150	145	145	135	155	165	195	225	265	265	300	270	225	225	225	225	190	180	165	150	192	23
17	160	110	90	90	140	125	135	165	165	195	225	265	265	245	235	205	195	195	205	210	210	195	180	180	17
18	120	135	150	135	135	135	145	165	180	205	240	265	265	270	265	225	270	270	255	225	255	45	90	150	70
19	60	60	20	30	160	180	170	150	210	240	260	210	225	320	300	210	390	260	270	260	230	180	200	30	190
20	110	180	150	120	110	140	120	150	200	210	230	260	240	240	210	200	240	240	260	240	210	170	150	190	20
21	110	90	120	90	110	140	150	200	230	270	300	300	290	270	260	270	270	300	150	240	240	180	90	205	42
22	60	140	150	150	150	180	140	150	180	210	240	270	270	240	230	210	210	220	230	210	90	120	180	180	25
23	135	135	135	130	105	115	135	135	150	190	235	265	285	270	245	225	210	205	205	210	195	210	120	75	180
24	60	60	80	60	90	60	110	170																	

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JULY 1941.

HOURLY MEAN VALUES

Table with columns: DAY, 1-23, M, PS, NS, AS. Rows for days 1-31 and monthly totals.

AUGUST

Table with columns: DAY, 1-23, M, PS, NS, AS. Rows for days 1-31 and monthly totals.

SEPTEMBER

Table with columns: DAY, 1-23, M, PS, NS, AS. Rows for days 1-30 and monthly totals.

Tromsø.

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

Gr. M. T.

OCTOBER 1941.

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	150	160	145	145	135	125	145	150	175	180	180	230	210	180	170	180	180	150	150	150	180	150	150	153	77	
2	-90	80	135	120	120	135	145	150	175	185	195	205	210	210	205	195	205	205	205	240	135	135	60	-75	54	
3	90	180	135	130	130	130	145	145	160	160	190	200	210	205	205	195	205	205	200	195	180	165	105	15	49	
4	-180	-60	0	110	140	140	180	180	180	170	230	240	230	210	210	180	200	170	200	180	170	150	140	80	50	
5	105	115	135	135	145	145	150	165	180	195	195	205	210	210	195	180	210	195	175	195	180	180	120	168	29	
6	150	125	120	180	180	135	145	160	175	180	195	210	205	195	185	195	205	210	195	180	180	160	150	170	15	
7	90	0	-30	0	80	120	170	150	140	140	170	180	180	200	200	190	230	150	230	200	140	120	90	140	54	
8	145	150	150	145	135	130	120	120	165	175	195	225	265	240	210	210	195	195	195	210	240	150	145	135	180	
9	150	145	145	145	145	135	135	155	175	195	205	225	240	225	225	270	240	225	270	0	-45	30	30	160	76	
10	60	-90	-90	50	90	150	180	240	180	90	80	150	300	290	240	210	240	0	30	180	120	-60	-30	-260	100	
11	-180	-210	-380	-30	110	150	120	180	180	800	230	230	200	210	200	180	0	120	90	180	90	60	-20	0	82	
12	120	110	90	90	120	150	180	180	190	150	170	180	200	200	200	200	180	150	90	170	120	120	120	150	38	
13	30	-230	80	60	150	200	180	140	150	150	180	240	230	260	210	210	240	230	270	120	90	80	0	60	138	
14	160	150	30	0	150	180	170	150	150	170	170	240	210	210	210	290	230	240	200	210	-90	30	120	156	136	
15	170	140	140	130	140	150	160	170	200	190	200	210	200	180	170	110	170	170	200	180	120	150	140	160	23	
16	150	150	145	145	145	165	165	180	190	210	205	210	225	210	195	165	210	270	255	210	135	110	90	80	175	
17	50	30	50	110	140	150	170	800	210	240	230	280	230	240	240	230	300	210	210	170	150	60	90	110	165	
18	110	110	110	120	140	140	140	140	140	210	210	230	240	240	300	260	210	170	180	180	120	30	60	90	162	
19	90	90	120	110	140	150	150	155	155	150	180	195	195	180	175	175	165	165	150	150	150	120	150	160	16	
20	90	90	120	135	135	150	175	185	180	195	240	240	360	390	390	240	90	330	270	810	150	-30	0	186	102	
21	80	120	90	90	140	140	140	140	150	170	200	230	230	240	280	200	200	-30	30	50	150	-120	-60	123	87	
22	-30	60	140	90	150	150	150	180	160	180	200	200	210	260	180	240	270	300	290	-300	20	60	0	135	123	
23	20	30	110	140	180	150	140	180	130	150	170	180	180	190	170	180	190	180	140	180	150	110	145	23	23	
24	120	120	110	110	120	120	120	120	180	200	210	210	270	240	200	190	190	230	180	240	120	-270	0	145	96	
25	45	60	105	135	150	160	150	145	165	180	180	195	225	210	195	180	175	160	150	160	135	150	60	105	150	
26	110	140	180	150	150	160	140	150	150	170	200	200	205	230	240	240	200	200	180	150	90	20	-80	150	37	
27	-60	90	120	150	150	150	150	170	170	180	200	210	210	200	190	200	210	190	180	180	60	110	90	110	160	
28	140	150	110	140	150	170	150	140	170	150	200	230	210	210	170	170	180	180	180	120	30	0	-30	143	61	
29	-30	60	30	50	170	30	-120	80	110	150	160	210	230	300	300	390	450	390	210	300	330	-330	-270	450	150	
30	66	66	78	102	132	138	138	150	162	172	186	204	220	225	210	204	213	192	186	183	135	82	48	66	147	65
31	150	150	145	140	135	135	145	160	175	185	195	200	200	200	195	185	180	175	175	165	160	155	150	145	170	

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	360	-600	-270	-90	330	-230	-80	0	20	60	0	90	150	170	60	120	270	360	300	140	150	180	95	95	83
2	105	105	120	115	115	115	105	115	115	115	130	135	145	145	145	150	150	150	-60	-90	-135	87	73	73	
3	135	90	90	120	135	120	135	160	150	165	180	180	165	150	165	180	180	180	165	180	195	210	120	153	29
4	80	110	180	140	140	140	140	150	170	180	190	180	180	180	230	180	240	330	290	150	-60	0	-30	60	145
5	30	150	90	80	110	180	140	120	90	140	270	200	180	240	150	330	110	120	200	-30	60	-290	-30	-30	105
6	-30	180	170	180	170	150	140	150	150	140	160	150	140	210	200	170	180	180	-90	80	90	30	120	-60	90
7	-60	-90	90	120	230	200	180	180	180	170	180	200	180	-30	150	200	150	-180	90	140	120	110	90	102	109
8	120	120	150	150	150	150	140	150	200	200	150	180	210	180	180	240	180	170	150	0	90	140	140	150	49
9	60	20	80	-80	120	140	150	150	150	150	150	200	240	210	230	240	210	450	240	140	110	90	-180	147	185
10	-450	-540	-210	-80	60	150	170	150	150	180	150	210	240	200	180	150	180	0	90	150	-50	0	150	-20	82
11	60	150	150	150	160	180	180	140	170	170	180	170	170	170	180	180	170	60	210	110	-60	-20	50	144	94
12	80	120	150	150	160	150	150	150	150	170	180	200	230	230	200	230	150	180	210	110	120	-110	-30	153	39
13	50	80	150	150	150	150	150	150	170	170	180	180	180	180	180	190	200	150	150	150	60	20	-50	135	50
14	120	140	150	150	150	150	150	170	170	180	200	180	180	180	180	180	180	170	120	150	120	120	120	155	23
15	140	150	140	140	140	170	170	150	150	170	180	180	170	170	170	180	190	180	180	200	90	0	80	150	38
16	120	60	0	110	140	170	240	810	140	210	800	230	210	260	230	-120	460	390	50	150	-80	-270	0	30	130
17	0	0	120	110	150	170	170	170	180	140	140	180	240	260	290	240	20	180	180	150	120	120	20	90	138
18	-140	-180	-80	60	120	160	180	150	170	180	180	210	200	170	180	180	180	170	140	90	240	0	-110	108	83
19	90	180	180	150	150	150	140	180	180	200	180	180	180	180	170	180	180	200	110	80	140	150	170	156	65
20	-20	-90	60	120	110	120	140	140	150	170	170	180	180	220	170	180	170	190	150	150	90	-90	0	107	121
21	90	120	120	150	170	170	150	150	170	180	170	180	210	210	210	90	120	300	210	160	150	-120	-80	90	138
22	-20	-150	-240	-180	170	180	150	180	180	200	210	210	200	210	170	200	180	170	170	140	0	90	0	105	76
23	50	140	140	150	150	150	150	170	180	170	170	170	170	180	180	180	180	180	170	90	120	120	150	44	52
24	140	140	140	150	150	150	170	150	150	170	180	180	170	170	140	170	180	180	180	120	90	60	120	120	147
25	120	120	180	140	150	150	150	150	170	180	180	170	170	170	180	170	150	170							

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

OCTOBER 1941.

HOURLY MEAN VALUES

Table for October 1941 showing magnetic observations. Columns include Day (1-31), M, PS, NS, AS, and summary rows for MFS and MNS.

NOVEMBER

Table for November showing magnetic observations. Columns include Day (1-30), M, PS, NS, AS, and summary rows for MFS and MNS.

DECEMBER

Table for December showing magnetic observations. Columns include Day (1-31), M, PS, NS, AS, and summary rows for MFS and MNS.

Tromsø.

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

Gr. M. T.

JANUARY 1941.

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	70	60	63	82	90	106	102	95	90	83	88	90	180	185	160	170	115	90	80	-130	-100	40	-85	72	617	
2	-35	25	0	85	105	98	92	90	90	90	92	95	130	125	103	115	93	87	88	97	75	10	78	80	357		
3	100	95	95	97	97	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	387	
4	87	87	92	106	127	127	122	102	98	90	90	92	110	97	82	85	105	122	105	95	90	90	87	85	96	189	
5	92	90	95	97	103	103	102	100	100	100	100	95	95	100	105	107	100	103	105	113	110	115	90	101	51		
6	40	-165	-300	-190	-190	25	125	85	125	115	103	97	88	95	95	90	107	115	130	120	85	75	88	90	44	592	
7	88	68	82	90	98	95	100	92	80	85	100	108	105	100	160	105	30	120	150	140	110	50	85	97	515		
8	103	85	100	80	105	88	80	82	95	100	95	92	103	95	95	100	102	130	170	170	140	30	-205	25	86	505	
9	30	75	110	110	108	110	95	80	100	65	75	100	125	190	220	270	155	95	90	120	45	100	78	70	109	377	
10	-100	140	82	95	100	98	95	90	90	95	95	98	100	100	138	118	130	92	95	45	55	-10	95	60	83	418	
11	-45	-55	40	95	88	90	100	90	90	85	80	90	127	155	135	97	85	97	85	115	95	95	60	75	82	321	
12	67	35	50	90	80	80	88	90	80	75	98	92	92	105	125	125	115	135	130	117	110	125	-25	80	90	275	
13	20	35	75	85	85	90	92	93	93	80	98	92	95	95	98	98	100	102	180	140	170	130	35	90	90	342	
14	80	88	90	85	88	88	88	90	92	92	92	93	95	97	98	98	97	95	107	135	140	128	80	65	95	204	
15	105	80	50	80	95	83	100	100	100	97	100	100	95	100	110	110	102	95	103	100	115	115	98	93	97	143	
16	70	75	95	97	98	102	100	93	98	90	95	105	125	225	335	315	145	80	77	82	80	80	85	65	117	501	
17	-80	-240	-180	95	90	105	100	80	58	20	95	115	135	260	210	280	-70	-210	105	0	-75	-160	-240	30	19	933	
18	40	-40	30	20	180	120	115	130	115	180	100	140	135	145	125	190	150	55	-25	-180	30	80	-110	-400	51	821	
19	-260	50	75	90	110	120	110	95	100	115	115	150	110	150	160	180	205	95	170	128	80	-60	-180	-250	68	622	
20	-65	40	30	100	115	105	180	180	112	105	100	110	110	110	103	108	105	102	102	107	102	-220	-100	70	71	648	
21	100	95	72	90	105	110	100	100	95	90	90	90	90	92	92	95	98	103	103	110	25	70	90	91	230		
22	85	82	88	90	98	92	90	88	85	88	100	100	100	100	100	100	120	125	115	-20	-60	-280	-35	40	62	602	
23	10	-10	75	100	112	108	108	102	88	80	125	180	170	330	155	75	80	-30	-40	140	75	-110	-175	-230	60	755	
24	-100	0	70	80	85	110	70	185	110	150	195	170	350	310	180	-140	50	145	70	-120	-110	-80	0	74	949		
25	-15	-25	50	10	-70	0	80	80	120	130	150	145	140	110	200	180	150	75	0	55	80	-60	-290	57	954		
26	-370	-120	60	100	100	100	90	70	80	80	120	150	155	170	130	180	800	180	110	90	15	-210	-70	-15	56	857	
27	80	40	10	70	90	90	88	92	90	90	85	145	140	170	150	175	190	145	180	-70	-65	-10	-190	-220	65	566	
28	-20	10	102	125	115	110	100	105	102	102	75	82	150	115	180	135	110	150	90	-10	-50	-180	-90	-45	65	372	
29	-40	80	105	110	105	100	100	100	90	90	95	105	105	100	100	110	105	100	85	90	80	80	80	80	80	80	418
30	0	90	95	50	0	75	105	100	93	87	82	90	105	110	190	245	270	170	-110	-60	102	70	-70	10	83	532	
31	32	80	90	95	95	95	93	88	92	80	80	85	92	105	100	103	98	95	98	95	100	90	88	70	89	128	
M	5	27	54	77	81	93	100	93	96	91	98	107	112	145	138	143	113	91	96	72	55	8	-10	-7	78	486	
QM	92	93	95	97	97	97	96	95	93	90	88	88	90	93	95	97	96	98	98	97	95	93	92	90	94		

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	92	92	92	92	90	89	87	85	85	88	90	95	95	95	113	170	855	195	140	155	105	100	85	111	230
2	85	82	87	88	88	80	88	87	80	77	80	100	108	90	85	88	90	100	120	75	20	60	85	88	86	245
3	98	80	-70	-170	-88	53	135	80	80	160	110	100	125	190	220	175	110	145	10	-110	20	90	40	60	87	515
4	20	-155	-110	55	80	102	98	108	95	85	82	85	122	142	200	180	270	850	190	145	100	95	70	65	89	566
5	68	-10	-40	95	85	88	88	108	85	90	92	105	130	130	190	210	138	140	130	50	50	-400	-90	-90	60	942
6	-90	30	-160	-10	90	-50	72	140	110	130	160	130	180	205	320	300	250	170	75	-20	20	-20	-50	85	612	
7	-260	-210	10	90	0	-30	80	95	65	95	145	130	110	160	165	180	140	85	0	130	-140	-150	-80	-30	34	683
8	-30	25	30	-10	0	105	110	100	110	90	130	180	185	180	140	165	125	145	110	110	-40	-120	80	-25	77	571
9	-50	0	60	25	90	90	88	90	95	100	85	90	98	112	115	125	112	108	110	10	-140	-85	40	70	61	553
10	30	-40	60	60	82	100	110	90	102	85	92	110	115	130	122	130	145	145	160	150	110	110	105	90	100	275
11	0	50	100	100	88	88	82	92	100	100	108	108	112	132	120	145	195	145	-40	80	88	70	65	95	377	
12	40	20	60	72	90	95	98	98	100	102	110	100	92	105	90	90	102	110	100	105	50	50	75	85	189	
13	-25	-95	70	95	112	108	108	100	88	75	80	150	215	245	220	180	130	25	70	75	-190	-280	-400	-135	47	475
14	-15	-220	-190	0	70	105	100	105	83	100	225	160	100	325	180	195	120	120	110	75	95	30	35	-225	59	695
15	-330	-220	-100	20	40	95	90	85	90	100	95	92	150	130	210	200	110	165	80	0	15	35	80	22	48	801
16	50	40	-100	10	95	97	88	88	87	82	72	82	82	90	100	90	100	130	122	110	10	430	630	-40	106	1122
17	-55	-75	40	60	50	90	135	110	90	110	210	180	170	115	150	110	110	125	100	-150	-90	-30	40	15	68	816
18	10	20	73	80	90	93	88	88	90	70	90	82	97	95	90	87	90	100	115	50	60	85	75	78	79	194
19	82	90	90	92	93	90	90	90	92	92	82	82	92	97	93	110	180	175	800	120	98	95	90	78	64	255
20	88	88	92	92	95	98	98	95	88	90	82	112	135	200	108	108	120	100	102	103	20	-230	-90	-140	69	735
21	40	-110	-135	45	90	180	110	110	100	100	95	98	140	240	210	140	200	105	85	10	-100	-300	-150	-10	51	842
22	45	-20	-50	-140	160	95	85	95	110	120	165	190	210	215	300	220	30	170	90	-270	-330	-430	-350	-410	12	975
23	40	0	65	120	130	135	180	120	90	90	95	120	220	330	270	210	175	-160	-235	-130	-240	-235	-255	-300	33	974
24	0	75	75	80	80	185	170	115	90	90	130	210	170	210	215	190	40									



Tromsö.

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

Gr. M. T.

JANUARY 1941.

HOURLY MEAN VALUES

Table for January 1941 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 1941 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-29), hours (1-24), and summary statistics (M, PS, NS, AS, CH).

MARCH

Table for March 1941 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 1941.

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	-130	60	60	60	70	75	68	60	58	55	58	62	75	92	110	100	98	88	90	80	10	-260	-260	-200	26	510	
2	-155	-160	-80	20	70	75	75	60	60	50	70	95	145	225	215	160	100	75	65	35	0	-200	-60	-80	38	645	
3	-5	50	-115	-30	58	70	80	90	68	40	50	90	120	180	240	245	250	165	180	-60	-180	0	42	-140	58	581	
4	30	20	50	60	80	78	70	60	70	70	90	102	93	78	70	80	80	90	100	90	70	60	20	-5	68	204	
5	80	62	55	78	75	55	55	80	60	58	60	70	65	75	78	90	110	105	105	95	80	-30	-150	-55	66	357	
6	-80	-35	-115	5	70	80	48	70	70	65	68	68	75	80	105	160	160	115	110	115	92	-10	-90	15	53	362	
7	68	78	62	60	68	62	78	70	67	70	70	90	90	90	105	125	98	130	118	98	-110	-310	-290	-280	33	577	
8	-125	40	80	62	65	78	87	70	60	60	68	72	100	115	90	100	160	150	118	100	85	60	-10	-250	61	653	
9	-230	30	70	-80	90	92	80	75	50	50	90	60	150	240	270	200	190	130	100	98	70	30	-12	10	77	745	
10	25	78	60	65	75	75	40	30	60	70	70	45	62	80	100	290	245	190	-30	-50	70	-80	-400	-190	41	887	
11	-40	0	90	40	50	95	50	0	70	70	70	65	100	115	140	180	182	185	115	-90	-200	70	-90	-15	46	568	
12	35	20	-60	-85	5	0	85	60	50	50	60	180	100	122	140	135	110	110	108	65	60	52	90	55	347		
13	-55	-30	50	73	78	78	65	55	48	38	52	60	90	110	150	115	85	80	78	60	40	15	80	-5	57	275	
14	45	70	70	63	60	53	58	48	53	48	38	48	60	88	72	60	75	80	82	72	67	65	65	68	63	153	
15	68	68	68	70	70	70	68	60	52	48	55	60	45	58	52	70	72	85	90	68	62	68	65	67	58	67	58
16	0	-240	15	73	73	70	68	60	58	70	80	85	140	140	225	180	70	70	65	68	78	70	60	68	66	643	
17	68	70	68	67	52	62	65	68	48	40	68	65	70	80	80	75	85	135	142	90	72	68	60	58	72	117	
18	-100	-230	0	70	65	70	65	52	48	50	60	90	165	162	155	150	200	112	85	70	40	-130	-500	0	31	1000	
19	-30	-50	-180	0	-40	-230	-220	-10	130	105	60	80	75	185	190	190	165	165	60	-60	-45	-90	-180	35	16	602	
20	-40	-25	10	50	90	72	50	48	80	35	42	60	50	85	145	135	150	95	100	40	-150	-260	-500	-300	11	796	
21	-50	-15	20	60	30	38	42	50	50	50	50	68	100	125	92	70	100	105	120	60	-130	5	45	68	48	444	
22	60	72	68	70	65	55	40	50	48	45	32	45	48	50	75	110	100	120	105	75	68	50	-20	60	62	265	
23	68	65	62	67	65	65	58	50	40	32	45	48	52	58	45	50	70	73	80	82	80	70	65	50	60	46	
24	50	65	68	68	70	70	58	50	40	-20	20	100	240	260	300	275	195	60	-300	-80	-130	-155	-245	-280	75	847	
25	-245	-280	-440	-300	-35	-100	-30	90	70	105	70	160	140	115	200	40	140	-5	-240	-80	-90	-140	-165	-150	-48	903	
26	-125	-135	-70	25	-50	30	20	50	70	95	75	60	60	60	48	60	90	150	110	78	25	-150	-260	-320	-1	491	
27	-200	-5	50	45	-50	48	48	35	32	40	55	65	60	62	70	70	85	110	130	90	15	-5	-50	0	38	638	
28	-35	20	-25	-95	-150	-20	40	38	40	65	-120	185	115	170	185	185	110	125	98	-90	-840	-130	-160	-90	20	683	
29	-235	-600	-250	-205	-48	53	40	25	28	40	20	35	42	35	30	35	42	60	80	52	68	70	35	-5	-21	1092	
30	-40	-70	-45	-25	35	80	45	40	28	28	30	32	35	40	42	48	50	55	58	52	60	50	45	42	28	153	
M	-43	-33	-5	17	46	46	47	52	57	54	60	77	91	111	127	124	123	106	68	43	-2	-42	-88	-64	41	465	
QM	68	70	72	72	72	70	68	65	58	55	53	55	69	67	73	80	83	87	87	87	87	83	78	73	68	72	

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	77	80	80	75	72	68	65	58	55	53	60	68	80	100	130	175	220	225	150	135	0	-120	-110	-30	74	475
2	40	28	-3	-45	0	50	75	78	68	55	70	80	65	110	160	148	135	160	130	122	95	-30	-40	-65	63	311
3	-10	15	48	32	72	65	80	62	58	55	62	100	110	100	135	162	190	165	120	0	-20	35	45	74	699	
4	63	58	62	30	60	10	-70	-10	45	90	70	70	128	90	108	108	160	160	102	102	-10	100	100	40	68	321
5	-45	-5	70	50	78	75	75	68	58	65	70	70	63	72	72	110	105	130	120	92	82	80	78	75	71	240
6	62	62	78	90	78	78	68	60	40	45	115	170	160	160	160	130	155	125	-50	-70	72	80	80	81	469	
7	78	45	5	-35	-80	-10	35	62	60	48	48	60	78	73	88	85	105	118	110	110	75	-60	73	90	51	281
8	88	83	83	80	78	73	70	65	58	60	63	95	70	80	85	83	120	135	150	120	-30	-10	15	80	75	328
9	100	90	55	-8	-35	10	0	40	75	80	72	80	110	160	140	90	93	90	110	100	20	65	35	10	65	311
10	-300	-360	-110	25	95	100	80	72	60	60	60	55	110	98	132	150	145	168	140	108	68	70	58	42	47	709
11	-105	-130	60	90	88	78	75	75	50	48	52	62	65	80	85	108	118	128	108	35	-90	-150	-130	49	444	
12	40	30	67	68	80	72	70	58	50	48	52	62	65	80	85	108	118	128	108	35	-90	-150	-130	49	318	
13	-200	-95	30	80	95	75	60	62	58	42	45	80	120	135	165	150	150	190	175	135	95	75	72	78	78	464
14	88	88	90	90	85	78	68	60	48	42	48	75	55	102	115	110	115	112	100	90	70	50	-200	70	587	70
15	-400	-100	70	100	98	80	80	65	30	55	55	75	70	78	80	98	112	115	125	108	90	105	70	0	52	622
16	-140	-180	50	85	75	90	78	30	60	70	100	110	145	245	310	250	275	110	112	115	88	65	72	68	99	653
17	72	98	90	70	-120	-110	-160	15	45	120	300	230	260	410	320	130	82	80	78	60	50	-90	-270	-65	62	842
18	-25	-30	45	-10	10	75	70	65	50	60	55	70	75	90	100	145	120	118	140	100	125	-10	-270	-20	48	548
19	5	55	-10	30	70	70	70	70	68	60	60	60	72	85	95	108	115	113	120	95	82	70	60	73	70	204
20	70	60	58	73	75	70	58	50	40	38	60	70	90	90	90	108	112	115	100	80	30	-5	-90	64	286	
21	-185	-10	75	82	75	62	50	40	50	53	50	55	55	80	115	115	185	210	200	140	120	-40	-400	-310	36	740
22	-200	-250	-420	-450	-180	30	100	85	70	35	130	200	260	240	180	140	108	75	90	55	-200	-170	40	-80	-2	1341
23	-35	-150	-140	-75	-10	72	80	75	80	150	90	130	260	175	210	225	195	140	-100	-110	-160	-130	-350	-480	6	1061
24	-250	-440	-340	-110	-180	-200	-85	35	110	170	200	240	300	235	210	230	225	170	70	-10	-140	-300	-220	-12	887	
25	50	40	130	110	88	90	55	100	105	280	260	260	310	275	160	120	80	15	-270	-300	-20	80	928			
26	-50	-100	30	110	100	100	75	60	60	78	105	110	130	130	140	120	1									

Tromsø.

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

Gr. M. T.

APRIL 1941.

HOURLY MEAN VALUES

Table for April 1941 showing magnetic intensity data for Tromsø. Columns include Day (1-30), 24 hours of intensity (1-24), and summary statistics (M, PS, WS, AS, CH).

MAY

Table for May 1941 showing magnetic intensity data for Tromsø. Columns include Day (1-31), 24 hours of intensity (1-24), and summary statistics (M, PS, WS, AS, CH).

JUNE

Table for June 1941 showing magnetic intensity data for Tromsø. Columns include Day (1-30), 24 hours of intensity (1-24), and summary statistics (M, PS, WS, AS, CH).

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

Gr. M. T.

Table for July 1941 showing hourly mean values for horizontal intensity. Columns include DAY (1-31), hours (1-24), and summary rows M and QM. Values range from -300 to 300.

Table for August showing hourly mean values for horizontal intensity. Columns include DAY (1-31), hours (1-24), and summary rows M and QM. Values range from -200 to 300.

Table for September showing hourly mean values for horizontal intensity. Columns include DAY (1-30), hours (1-24), and summary rows M and QM. Values range from -200 to 300.

Tromsö.

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

Gr. M. T.

JULY 1941.

HOURLY MEAN VALUES

Table for July 1941 showing hourly mean values for magnetic intensity and storminess. Columns include Day, hours 1-24, M, PS, NS, AS, CH.

AUGUST

Table for August showing hourly mean values for magnetic intensity and storminess. Columns include Day, hours 1-24, M, PS, NS, AS, CH.

SEPTEMBER

Table for September showing hourly mean values for magnetic intensity and storminess. Columns include Day, hours 1-24, M, PS, NS, AS, CH.

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

Gr. M. T.

OCTOBER 1941.

HOURLY MEAN VALUES

Table for October 1941 showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and summary rows M and QM.

NOVEMBER

Table for November showing hourly mean values for horizontal intensity. Columns include Day (1-30), hours (1-24), and summary rows M and QM.

DECEMBER

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

Tromsø.

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

Gr. M. T.

OCTOBER 1941.

HOURLY MEAN VALUES

Table for October 1941 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), 24 hours (1-24), M, PS, NS, AS, CH.

NOVEMBER

Table for November 1941 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-30), 24 hours (1-24), M, PS, NS, AS, CH.

DECEMBER

Table for December 1941 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), 24 hours (1-24), M, PS, NS, AS, CH.

Tromsø. Vertical Intensity.  $V = 50300 +$  Tabular Quantities expressed in Gamma. HOURLY MEAN VALUES

Gr. M. T.

Table for January 1941. Columns: DAY, 1-23, M, R. Rows: 1-31 days of the month with numerical data for each hour.

Table for February 1941. Columns: DAY, 1-23, M, R. Rows: 1-29 days of the month with numerical data for each hour.

Table for March 1941. Columns: DAY, 1-23, M, R. Rows: 1-31 days of the month with numerical data for each hour.



Tromsø.

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

Gr. M. T.

JANUARY 1941.

HOURLY MEAN VALUES

Table for January 1941 showing magnetic observations. Columns include Day (1-31), Hourly Mean Values (1-23), M, PS, NS, AS. Includes summary rows for M, NPS, and NMS.

FEBRUARY.

Table for February 1941 showing magnetic observations. Columns include Day (1-28), Hourly Mean Values (1-23), M, PS, NS, AS. Includes summary rows for M, NPS, and NMS.

MARCH

Table for March 1941 showing magnetic observations. Columns include Day (1-31), Hourly Mean Values (1-23), M, PS, NS, AS. Includes summary rows for M, NPS, and NMS.

Tromsø.

Vertical Intensity.  $V = 50300 +$  Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL  
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	73	92	122	135	130	130	132	132	133	135	137	140	145	150	160	145	145	135	140	135	132	170	40	50	187	306
2	150	50	20	25	50	80	90	112	125	140	130	132	135	140	100	155	160	175	158	128	165	15	-5	70	105	401
3	80	85	110	95	40	55	105	120	127	138	140	142	155	152	135	135	135	138	150	128	110	85	65	120	114	177
4	100	112	122	122	118	90	105	115	120	130	125	125	165	160	140	90	150	170	145	115	150	120	130	120	126	394
5	50	120	100	110	115	110	125	122	125	125	120	122	130	130	132	130	138	160	135	125	125	145	165	90	122	272
6	70	95	100	30	55	85	82	90	102	115	120	125	128	140	155	158	162	155	145	130	110	160	90	70	110	183
7	110	120	120	120	120	120	118	115	118	120	125	130	150	160	140	150	130	132	125	120	190	250	300	430	164	598
8	90	45	90	105	118	118	122	128	128	125	115	122	135	180	155	140	135	145	80	105	120	225	200	270	128	401
9	70	12	80	60	30	105	110	110	120	115	120	130	120	100	100	145	110	145	120	135	125	132	130	160	107	204
10	105	105	125	115	112	120	130	150	140	145	130	140	135	130	135	10	80	75	160	20	105	250	150	160	120	802
11	140	160	105	125	80	115	122	125	160	160	130	110	115	170	150	150	140	90	50	50	25	130	145	130	119	306
12	125	130	130	70	70	80	110	118	115	125	125	125	180	140	140	150	130	120	132	100	185	128	128	180	123	227
13	75	120	90	112	118	120	122	122	118	115	115	120	130	140	155	155	145	130	120	180	62	70	75	70	114	122
14	90	115	120	120	115	115	118	125	125	125	120	125	125	130	130	127	126	132	128	118	115	115	115	115	114	54
15	118	120	120	120	120	118	118	115	113	100	110	113	110	130	110	117	115	120	115	115	110	110	110	110	116	41
16	145	110	60	95	105	105	108	110	113	100	115	145	155	140	145	138	138	128	123	118	110	105	100	100	117	268
17	110	105	110	115	110	108	110	105	110	120	110	150	155	120	130	125	130	115	115	120	125	120	120	110	119	68
18	190	90	10	70	95	110	115	118	120	125	115	120	135	125	125	150	120	150	105	130	270	210	43	129	612	
19	90	90	120	35	40	200	130	90	80	90	150	130	170	135	165	125	155	100	20	80	160	230	260	95	122	490
20	150	125	120	90	120	125	130	140	160	140	122	125	140	130	160	170	140	138	125	140	115	110	240	250	141	367
21	185	160	125	120	110	95	105	112	112	115	120	130	128	160	140	140	145	128	100	120	280	105	110	118	130	567
22	112	115	122	122	120	118	130	110	108	110	113	110	125	125	125	155	145	135	110	118	122	110	108	120	120	211
23	115	115	118	118	110	110	115	115	115	115	120	140	165	155	130	125	123	123	118	118	110	110	112	118	121	75
24	110	105	122	112	110	108	110	108	120	140	130	90	140	-100	-400	-80	-40	100	60	90	310	250	380	180	92	1000
25	230	310	110	-90	-10	70	70	125	140	120	120	145	130	160	160	30	0	95	70	15	190	280	255	180	28	748
26	200	160	90	75	70	80	90	110	132	135	150	120	120	130	145	150	140	128	115	130	140	165	140	100	126	218
27	90	60	105	115	120	118	118	115	112	110	115	125	125	150	140	158	140	150	130	120	190	120	100	98	120	197
28	80	90	100	50	0	0	85	105	120	130	150	165	190	145	145	75	60	115	120	50	190	250	210	110	114	394
29	190	200	245	-35	15	85	110	115	118	120	105	108	120	118	122	125	125	122	122	122	122	115	95	110	116	728
30	80	75	78	70	65	90	110	118	122	118	115	115	117	120	122	120	120	122	122	122	120	120	120	118	108	88
31																										
M	117	113	106	84	86	104	111	116	121	123	123	127	138	131	122	121	121	128	115	107	159	149	147	130	120	340
QM	117	118	120	120	117	115	113	113	114	115	116	117	118	120	122	123	123	123	122	121	120	119	118	117	119	

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	115	118	120	120	120	118	118	118	115	112	105	120	115	125	130	170	140	50	125	135	150	105	120	75	118	279
2	65	70	60	20	-20	0	55	80	98	95	105	120	140	140	150	145	140	135	128	115	95	120	190	125	99	218
3	65	70	60	65	70	80	75	92	95	100	115	132	135	160	160	142	140	125	100	110	155	110	100	102	105	170
4	100	95	100	100	85	50	50	-85	45	70	120	125	125	150	155	145	126	70	105	120	160	130	110	104	226	82
5	120	85	95	110	110	110	115	118	120	120	120	120	122	122	130	120	130	130	110	118	120	120	118	115	117	82
6	115	110	108	110	110	105	105	110	118	115	115	130	175	160	155	175	150	125	110	210	160	100	115	118	129	333
7	118	105	70	60	35	10	55	75	95	95	105	110	115	120	120	125	122	125	110	122	150	95	112	99	211	99
8	118	115	110	110	108	108	108	100	100	130	145	165	130	108	105	120	95	55	110	110	100	105	112	127	227	227
9	120	120	110	85	30	25	70	75	105	120	115	125	155	140	135	140	125	120	110	100	90	100	150	220	112	236
10	340	100	-100	-30	50	100	108	108	110	105	125	125	130	170	185	162	108	125	132	125	108	125	180	125	117	619
11	130	75	60	90	100	100	105	112	113	115	117	130	150	155	118	120	122	118	102	105	105	103	109	110	150	150
12	100	90	95	102	100	108	118	112	110	108	100	100	102	105	115	125	140	145	125	105	120	90	150	130	112	156
13	170	120	80	85	110	110	105	110	115	118	110	130	142	175	180	155	150	112	120	122	150	125	112	110	127	279
14	112	118	118	113	118	110	110	110	110	108	105	130	138	180	130	120	133	130	125	115	113	110	120	170	121	166
15	40	-20	10	80	100	95	100	102	100	108	110	120	120	120	112	115	125	125	108	115	115	105	120	180	100	261
16	255	150	50	55	75	90	110	115	108	110	125	165	150	80	35	140	150	128	122	122	120	130	130	125	117	333
17	105	105	105	108	140	145	70	125	150	110	50	125	160	40	80	125	130	120	120	128	90	210	200	150	119	340
18	85	105	98	90	70	90	100	110	115	110	120	118	122	125	130	142	128	110	45	40	135	180	100	108	306	
19	80	78	82	75	90	105	108	115	118	118	110	118	118	125	130	140	145	128	120	128	122	120	118	118	113	95
20	120	118	108	95	100	105	105	100	103	105	110	110	115	118	122	125	110	112	110	108	70	50	30	102	88	
21	55	10	70	102	115	110	108	100	95	108	110	92	100	85	110	130	95	20	-10	80	120	155	210	200	99	463
22	380	290	225	65	200	-60	65	110	130	125	105	110	92	110	160	135	160	140	110	100	-20					

Tromsø.

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

Gr. M. T.

APRIL 1941.

HOURLY MEAN VALUES

Table for April 1941 showing magnetic observations. Columns include Day (1-30), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS).

MAY

Table for May 1941 showing magnetic observations. Columns include Day (1-31), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS).

JUNE

Table for June 1941 showing magnetic observations. Columns include Day (1-30), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS).

Tromsø.

Vertical Intensity. V = 50300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

HOURLY MEAN VALUES

JULY 1941.	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	100	90	80	75	45	70	105	110	110	110	105	100	105	95	95	110	115	120	110	130	140	120	100	261	
2	95	55	70	100	100	100	110	130	145	185	110	125	150	155	140	130	115	110	105	105	90	95	112	143		
3	120	70	100	115	110	105	105	108	108	110	110	110	105	115	100	120	90	130	140	120	118	105	90	107	197	
4	100	112	110	100	100	40	55	90	125	125	120	140	175	180	175	130	90	30	-5	70	235	420	230	131	585	
5	600	290	750	300	-30	80	550	600	320	220	10	-200	-130	-550	-600	10	90	95	105	60	320	200	150	118	1506	
6	175	145	127	125	130	135	150	160	130	130	125	175	-50	-230	-210	-110	-30	40	100	160	210	300	210	225	97	748
7	250	-40	430	380	600	-90	-25	95	140	165	155	155	165	165	170	155	130	140	135	160	190	170	120	172	1136	
8	155	140	135	130	130	125	140	125	160	140	125	170	190	150	160	125	110	120	115	60	100	135	140	154	286	
9	142	142	140	130	125	128	128	132	125	120	120	125	130	120	170	125	125	115	120	150	170	125	340	149	292	
10	210	80	15	72	105	118	110	130	140	128	118	120	120	125	105	65	70	70	105	210	340	280	120	133	578	
11	75	90	80	75	120	140	125	150	160	160	165	175	125	180	170	168	180	165	155	160	155	145	130	146	150	
12	123	128	115	95	105	120	130	140	135	150	145	155	120	140	160	128	128	128	125	122	120	180	120	129	177	
13	65	95	110	125	120	118	120	125	128	128	128	128	128	128	130	125	125	125	125	125	125	125	125	125	116	
14	118	112	112	115	115	110	110	110	118	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	87	
15	115	70	72	45	60	80	90	120	125	115	125	110	115	130	110	155	120	90	60	90	150	70	150	185	106	
16	150	155	100	115	120	120	120	120	125	125	120	125	115	125	120	150	120	110	65	90	115	155	130	123	353	
17	155	50	5	70	105	110	115	120	128	115	118	120	130	130	138	130	130	130	100	85	95	70	85	106	218	
18	105	120	110	40	60	85	105	115	118	120	122	120	130	140	135	140	150	135	125	110	110	110	190	30	113	
19	80	78	78	95	102	102	115	122	130	110	110	130	150	140	125	115	130	120	135	70	45	80	100	109	136	
20	150	250	100	-35	20	90	110	110	180	50	70	150	140	140	150	175	160	135	130	210	130	100	150	200	125	456
21	235	290	200	70	20	60	95	110	120	125	140	155	155	175	100	100	90	30	55	150	150	150	180	245	401	
22	260	285	180	65	65	105	120	120	120	165	155	155	155	155	155	155	155	155	155	155	155	155	155	155	381	
23	175	30	-50	5	60	110	125	120	118	122	120	125	120	125	120	125	120	125	120	125	120	125	120	125	313	
24	160	115	125	122	120	110	120	130	130	150	140	150	160	170	125	150	155	140	135	110	120	115	110	120	133	
25	125	125	125	118	120	120	120	120	120	118	115	110	120	125	135	138	130	128	128	125	115	110	90	75	120	
26	110	110	115	120	118	110	118	120	120	120	115	115	120	125	125	125	125	125	125	125	125	125	125	125	117	
27	80	60	80	105	115	115	112	118	120	122	118	120	122	120	125	125	125	125	125	125	125	125	125	125	112	
28	105	110	110	118	118	118	117	117	117	118	110	110	120	125	140	135	130	120	120	128	110	112	103	130	118	
29	90	78	85	95	105	100	105	108	112	115	118	120	115	123	130	125	118	112	112	118	110	110	115	109	68	
30	115	110	110	113	115	118	118	120	120	118	118	118	120	130	130	132	120	125	120	115	120	70	80	45	113	
M	151	117	131	105	111	97	123	136	135	128	122	123	121	108	109	106	120	118	114	123	133	147	138	138	123	272
QM	115	117	118	118	118	117	115	115	118	120	122	123	124	125	126	127	128	128	128	127	125	123	122	120	122	

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	45	50	90	120								110	115	130	140	155	155	140	110	70	210	230	235	200	340
2	210	240	250	110	10	80	150	185	205	215	190	170	120	-50	-210	-10	50	55	80	165	205	210	215	190	131
3	190	115	85	110	105	120	120	115	120	125	130	140	140	165	190	190	155	60	125	120	120	130	50	60	125
4	75	200	-60	200	125	0	-115	60	120	160	100	-200	-120	-270	-300	-240	-20	240	70	140	250	280	420	450	1020
5	520	800	700	10	30	90	110	130	140	135	125	120	130	150	180	115	135	150	125	100	-10	5	-10	110	166
6	55	90	95	110	105	130	70	110	105	95	120	125	130	130	100	160	130	75	20	105	270	190	470	129	673
7	550	250	80	30	75	100	100	130	135	140	130	130	140	135	150	130	135	125	135	135	110	70	25	136	816
8	40	90	120	180	125	125	120	120	123	115	120	125	128	125	125	125	125	125	125	125	120	100	120	120	118
9	125	125	125	125	125	125	123	122	118	120	120	120	125	125	125	125	125	125	125	125	125	125	125	125	118
10	110	118	120	120	125	125	120	122	113	110	112	115	118	118	120	122	123	123	122	120	120	118	105	115	118
11	100	70	75	90	110	118	112	110	110	110	110	115	110	125	125	125	125	125	125	125	125	125	125	125	114
12	90	110	65	68	105	115	112	118	115	120	118	118	120	120	125	125	125	125	125	125	125	125	125	125	88
13	50	60	90	105	110	110	112	118	118	120	120	120	120	125	125	125	125	125	125	125	125	125	125	125	117
14	25	30	80	100	80	82	90	105	115	112	120	122	122	125	125	125	125	125	125	125	125	125	125	125	140
15	65	75	95	105	110	112	110	110	110	108	120	125	128	130	130	128	125	125	125	125	125	125	125	125	114
16	120	120	123	123	123	120	120	118	118	118	110	125	130	120	150	148	130	120	95	100	100	100	102	102	112
17	110	95	60	90	105	115	120	122	120	120	118	120	118	118	118	118	120	115	110	110	110	108	70	110	248
18	85	110	118	118	112	110	108	105	100	95	110	103	100	115	105	140	140	125	105	30	60	75	90	103	123
19	150	180	145	40	95	95	110	115	125	140	165	165	195	175	180	190	110	105	130	115	160	140	150	165	127
20	75	115	115	108	105	110	110	115	115	115	120	122	125	135	155	155	155	125	122	118	110	105	130	150	121
21	185	100	95	110	105	105	95	95	95	105	105	110	120	122	125	150	140	110	80	100	120	135	110	111	143
22	65	105	115	115	120	120	120	118	115	112	112	108	115	115	118	120	122	118	118	118	120	140	75	90	110
23	105	110	110	115	118	120	120	118	118	118	118	118	120	125	125	125	125	125	125	125	125	125	125	125	113
24	60	75	90	120	105	115	108	110	118	130	125	115	120	120	130	135	130	125	110	70	70	65	75	90	144
25																									

Tromsø.

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

Gr. M. T.

JULY 1941.

HOURLY MEAN VALUES

Table for July 1941 showing magnetic observations. Columns include DAY (1-31), 25 hourly values (1-25), and summary columns M, PS, NS, AS. Data values range from -50 to 250.

AUGUST

Table for August 1941 showing magnetic observations. Columns include DAY (1-31), 25 hourly values (1-25), and summary columns M, PS, NS, AS. Data values range from -50 to 250.

SEPTEMBER

Table for September 1941 showing magnetic observations. Columns include DAY (1-30), 25 hourly values (1-25), and summary columns M, PS, NS, AS. Data values range from -50 to 250.

Tromsø.

Vertical Intensity.  $V = 50300 +$  Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1941.

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												150	140	150	160	188	180	140	125	125	120	130	135			
2	136	135	135	135	133	132	130	130	132	132	132	132	132	132	140	148	150	150	148	150	60	160	240	140	138	340
3	40	45	105	130	130	130	135	135	140	145	150	150	160	170	180	185	185	155	150	145	130	145	140	135	141	218
4	125	125	135	135	135	135	138	138	140	145	145	145	145	145	145	145	145	145	145	145	140	140	140	140	141	227
5	140	90	90	120	130	130	135	135	140	145	155	160	160	140	140	150	150	150	150	140	140	140	140	140	141	227
6	85	105	125	130	128	130	128	128	130	135	130	130	135	160	165	150	140	150	145	130	130	115	115	135	131	135
7	140	135	130	130	130	130	128	127	127	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	20
8	130	90	10	-40	-40	70	110	125	130	150	130	130	133	130	130	135	125	70	110	135	140	120	70	110	99	227
9	120	120	120	120	118	118	125	128	130	135	130	130	135	160	175	140	150	135	135	140	90	75	110	125	127	190
10	130	128	128	127	127	127	128	128	128	128	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	227
11	125	200	0	20	75	90	120	125	140	155	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	1040
12	170	40	180	180	80	95	130	155	160	130	130	140	140	130	145	160	120	80	120	120	140	190	230	140	496	
13	30	80	100	105	125	125	130	150	145	145	155	155	155	155	140	140	150	75	120	110	110	120	120	125	150	
14	95	95	80	90	105	115	118	120	125	135	140	155	170	160	170	60	100	190	155	110	135	150	150	250	408	
15	120	50	75	90	80	55	110	145	190	195	190	185	165	170	175	120	60	90	130	120	100	120	140	135	125	261
16	125	135	140	80	0	70	90	115	130	125	130	130	140	180	180	140	50	50	75	120	250	290	100	105	121	551
17	140	150	140	135	132	128	128	133	143	160	155	155	165	160	160	170	140	145	140	135	130	110	90	90	138	109
18	125	130	130	130	128	128	128	130	140	140	150	155	170	175	175	170	160	145	130	140	130	120	110	110	140	95
19	105	105	125	80	70	105	125	135	135	140	150	155	155	180	185	95	80	130	140	155	140	120	100	100	125	268
20	115	115	115	110	110	110	125	145	165	165	160	155	160	165	190	210	200	165	140	125	90	80	100	110	138	204
21	135	120	120	110	110	120	130	135	135	138	138	133	135	135	135	135	135	135	135	135	128	128	128	125	129	41
22	95	100	100	100	110	110	120	125	130	128	130	140	155	180	190	170	40	110	180	220	320	325	420	250	160	544
23	115	125	140	140	140	140	143	145	145	148	155	145	140	160	160	145	110	100	0	45	180	280	320	310	148	557
24	200	75	125	120	120	130	135	130	130	140	140	135	175	170	180	175	140	85	110	135	80	105	190	275	142	449
25	130	85	100	118	105	112	130	140	138	138	138	138	135	139	138	130	135	135	115	90	100	130	132	125	124	75
26	110	115	112	115	120	125	135	140	130	140	155	160	140	160	150	135	130	135	130	90	35	110	180	280	134	299
27	100	80	120	110	120	130	135	135	140	138	140	140	140	145	145	140	135	135	135	133	130	80	90	115	125	241
28	120	120	125	128	128	125	125	128	130	132	132	140	145	140	160	180	160	140	60	90	105	125	210	190	135	394
29	210	80	95	120	128	125	125	125	130	130	130	130	145	145	145	145	145	145	145	145	145	145	145	145	145	292
30	115	105	105	110	120	120	120	125	128	130	132	145	180	170	180	170	140	155	130	115	140	135	150	210	126	204
31	85	60	55	60	-60	-90	10	55	100	115	125	125	180	140	180	125	-100	-40	60	55	300	500	280	650	116	898
M	122	105	109	107	99	109	122	130	136	139	140	142	145	149	155	145	120	125	121	125	125	154	187	177	132	313
QM	127	128	130	130	130	128	127	125	125	127	128	130	132	133	134	135	135	135	135	132	131	130	128	127	130	150

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	600	420	260	190	260	130	190	25	75	95	0	-40	-70	-35	-70	-150	-90	20	50	170	190	145	145	145	111	592	
2	148	148	145	145	140	140	140	143	145	148	148	153	158	155	150	145	145	148	150	150	150	150	150	150	152	268	
3	70	95	140	180	140	125	130	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
4	140	125	180	110	115	120	130	135	135	138	138	140	140	138	135	132	135	138	140	145	130	130	150	150	153	116	
5	140	130	145	145	135	130	128	128	128	130	130	130	130	138	140	145	110	-30	50	100	130	100	105	135	119	700	
6	190	130	125	85	80	95	125	105	120	110	50	70	-50	0	180	0	35	120	160	290	450	560	250	125	782		
7	500	95	90	125	135	145	150	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	
8	140	120	75	55	50	90	120	125	140	160	140	150	145	175	195	155	145	135	10	40	115	120	215	110	118	319	
9	75	90	115	122	125	130	145	145	140	158	142	170	40	110	40	150	60	40	50	75	95	130	130	120	107	254	
10	146	130	40	10	50	75	105	130	135	150	165	140	125	40	-25	60	80	200	50	110	160	220	360	117	671		
11	90	10	10	-20	40	110	135	150	150	160	185	155	140	155	155	155	145	120	50	105	125	140	210	125	117	381	
12	100	125	135	135	130	130	150	150	145	140	138	135	135	140	142	140	130	110	150	290	140	10	45	132	449		
13	90	105	125	115	128	130	140	145	160	150	170	160	160	165	175	160	140	95	110	140	130	135	90	136	156		
14	60	95	110	120	120	120	125	133	138	150	155	150	165	140	142	140	150	100	110	140	145	180	110	150	170	100	
15	95	125	125	125	125	125	128	128	130	130	130	140	145	150	150	153	153	148	140	125	150	125	120	105	131	102	
16	110	118	115	100	100	115	125	128	130	130	128	128	130	130	130	130	140	145	150	135	130	70	120	115	123	143	
17	120	140	60	100	105	95	95	100	130	180	155	145	140	-50	-25	-10	-190	0	260	180	330	80	110	165	95	616	
18	170	120	75	110	100	100	100	100	135	160	170	140	160	170	125	65	15	60	135	60	130	150	265	130	123	435	
19	280	290	65	55	85	120	125	130	135	135	135	140	150	145	135	135	140	140	130	120	80	120	85	130	134	490	
20	175	120	145	145	135	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	129	255
21	210	100	110	118	135	135	135	135	130	128	128	130	130	130	145	165	140	150	120	90	145	110	100	160</			

Tromsø.

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

Gr. M. T.

Table for October 1941 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -75 to 58.

NOVEMBER

Table for November showing hourly mean values for vertical intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -35 to 475.

DECEMBER

Table for December showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -63 to 267.

Resuming Tables.

Diurnal Variation.  
QUIET VALUES

Tromsø.

Declination. Unit Gamma. + West.

1941	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JANUARY	-4	-4	-4	-6	-7	-7	-4	-2	-1	0	1	2	3	4	5	6	6	5	4	3	2	1	-2	-4
FEBRUARY	-5	-6	-6	-7	-8	-8	-6	-3	0	3	5	7	7	7	6	5	4	3	2	1	0	-2	-5	-7
MARCH	-6	-6	-9	-10	-11	-11	-7	-4	-1	3	6	9	11	11	10	8	6	3	1	-1	-2	-3	-4	-4
APRIL	-4	-7	-9	-12	-14	-14	-12	-9	-5	1	8	12	13	12	10	8	6	5	3	2	1	0	-2	-4
MAY	-10	-12	-15	-16	-18	-18	-15	-10	-5	0	7	15	17	17	15	13	12	11	10	8	7	3	0	-5
JUNE	-14	-16	-19	-21	-22	-22	-17	-11	-6	1	6	11	14	14	14	16	16	16	16	16	9	4	-2	-9
JULY	-14	-14	-17	-20	-22	-22	-19	-14	-10	-2	6	13	20	23	23	21	18	15	13	10	5	0	-4	-9
AUGUST	-14	-14	-15	-17	-20	-20	-17	-12	-7	3	13	16	18	18	17	16	13	10	9	6	6	1	-2	-4
SEPTEMBER	-5	-7	-10	-15	-19	-17	-12	-9	-4	3	10	13	16	16	16	13	10	8	5	3	1	0	-2	-4
OCTOBER	-6	-6	-8	-9	-11	-11	-8	-3	2	6	9	11	11	11	9	6	4	2	1	-1	-3	-4	-6	-8
NOVEMBER	-4	-4	-5	-6	-7	-7	-5	-2	1	3	6	7	8	8	7	6	5	3	1	0	-2	-4	-6	-7
DECEMBER	-3	-3	-3	-4	-4	-3	-1	1	2	4	5	6	6	6	5	4	2	1	-1	-2	-3	-4	-5	-6
MEAN	-7	-8	-10	-12	-13	-14	-10	-7	-3	2	7	10	12	12	11	10	9	7	5	4	2	-1	-3	-6
Horizontal Intensity. Unit Gamma.																								
JANUARY	-2	-1	1	3	3	3	2	1	-1	-4	-6	-6	-4	-1	1	3	4	4	4	3	1	0	-2	-4
FEBRUARY	-1	1	2	2	2	1	-1	-3	-4	-6	-8	-4	-1	1	2	3	4	4	4	4	3	2	1	-1
MARCH	-2	0	1	3	3	3	0	-5	-12	-19	-24	-22	-15	-7	0	6	10	13	13	13	10	6	3	0
APRIL	-4	-2	0	0	0	-2	-4	-7	-14	-17	-19	-17	-12	-5	1	8	11	15	15	15	11	6	1	-4
MAY	2	4	7	7	4	1	-4	-8	-11	-16	-18	-13	-9	-6	2	6	9	9	9	9	8	7	4	1
JUNE	6	7	7	6	2	-1	-4	-8	-13	-18	-21	-16	-9	-4	-1	1	4	7	9	9	9	8	7	6
JULY	4	6	7	7	6	4	-1	-6	-11	-16	-21	-16	-11	-4	1	4	6	7	7	7	7	6	5	4
AUGUST	4	6	7	7	6	4	-1	-6	-11	-16	-21	-16	-11	-3	1	4	6	7	7	7	7	7	6	4
SEPTEMBER	2	4	6	6	4	2	-1	-4	-8	-11	-16	-13	-6	-4	-1	2	4	6	7	7	7	6	4	2
OCTOBER	1	3	5	6	6	3	-2	-7	-12	-15	-17	-14	-9	-4	0	3	5	7	8	8	7	6	5	3
NOVEMBER	-2	0	1	1	1	0	-2	-4	-7	-9	-14	-7	-2	1	5	7	10	10	10	7	5	3	0	-2
DECEMBER	-3	-1	1	2	2	1	0	-1	-2	-3	-4	-3	-1	1	2	3	4	4	4	4	3	1	-1	-3
MEAN	0	2	4	4	3	2	-2	-5	-9	-12	-15	-12	-6	-3	1	4	6	8	8	6	7	5	3	1
Vertical Intensity. Unit Gamma.																								
JANUARY	-7	-5	-3	-2	-2	-3	-5	-5	-3	2	-1	0	1	2	3	4	5	5	5	4	3	2	0	-2
FEBRUARY	-4	-5	-1	-1	-2	-3	-4	-4	-3	-1	1	2	4	6	7	7	7	6	4	1	-1	-3	-4	-6
MARCH	-3	-2	-1	-1	-3	-4	-6	-6	-4	-1	1	2	3	4	5	6	6	6	5	4	2	1	-1	-2
APRIL	-2	-1	1	1	-2	-4	-6	-6	-5	-4	-3	-2	-1	1	3	4	4	4	3	2	1	0	-1	-2
MAY	-5	-2	-2	-2	-3	-7	-8	-8	-7	-5	-3	0	2	3	5	7	8	8	8	7	3	0	-3	-5
JUNE	0	0	-2	-3	-5	-8	-10	-10	-8	-7	-6	-3	-2	0	3	5	6	7	7	7	6	5	3	0
JULY	-7	-5	-4	-4	-4	-5	-7	-7	-4	-2	0	1	2	3	4	5	6	6	6	5	3	1	0	-2
AUGUST	-1	-1	-1	-2	-3	-4	-5	-5	-3	-1	0	2	4	5	7	7	7	7	4	2	-1	-3	-4	-5
SEPTEMBER	-3	0	2	2	-1	-5	-8	-8	-5	-3	-1	2	4	5	7	7	7	5	3	0	-1	-3	-5	-6
OCTOBER	-3	-2	0	0	0	-2	-3	-5	-5	-3	-2	0	2	3	4	5	5	5	3	2	1	0	-2	-3
NOVEMBER	-6	-4	-3	-3	-3	-4	-6	-6	-3	-1	1	2	4	6	7	7	7	6	4	2	-1	-3	-4	-6
DECEMBER	-5	-4	-3	-3	-5	-6	-8	-8	-5	-3	-1	0	2	4	5	6	7	7	7	6	5	4	2	0
MEAN	-4	-2	-1	-2	-3	-5	-6	-6	-5	-3	-1	1	2	4	5	6	6	6	5	4	2	0	-2	-3

Monthly Means.

DECLINATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DIRECT VALUES. $D = 2^{\circ}W + \dots$	21.6	19.8	15.3	18.0	18.0	17.7	14.7	17.4	14.7	14.7	12.9	14.1	16.6
QUIET VALUES. $D_0 = 2^{\circ}W + \dots$	23.7	23.5	20.7	20.1	19.5	19.2	17.1	18.6	18.6	16.8	15.6	16.3	19.1
RANGE	74	88	116	81	84	71	84	74	99	65	80	74	83
QUIET RANGE	13	15	22	27	35	38	45	38	35	22	15	12	26
STORMINESS, MEAN (UNIT $\gamma$ ).	-8	-3	-17	-6	-5	-5	-8	-4	-13	-6	-9	-3	-7
DIURNAL SUM PS (UNIT $\gamma$ ).	83	115	119	143	176	151	162	193	140	102	102	115	133
NS	264	320	556	288	305	280	347	301	446	245	313	190	320
AS	348	435	655	431	481	431	509	494	506	347	415	305	453
HORIZONTAL INTENSITY.													
DIRECT VALUES $H = 11200 + \dots$	79	71	24	41	58	69	52	71	45	52	50	65	56
QUIET VALUES $H_0 = 11200 + \dots$	94	91	82	72	76	81	81	81	76	72	72	71	79
RANGE	486	583	928	465	545	404	470	356	500	422	464	406	494
QUIET RANGE	10	12	37	34	27	30	28	28	23	25	24	8	24
STORMINESS, MEAN (UNIT $\gamma$ ).	-16	-20	-56	-29	-16	-12	-30	-10	-32	-21	-23	-7	-23
DIURNAL SUM PS (UNIT $\gamma$ ).	318	517	510	348	550	408	360	496	380	255	345	388	406
NS	703	1004	1866	1043	927	684	1071	737	1089	750	895	567	945
AS	1021	1521	2377	1390	1477	1092	1431	1233	1469	1006	1241	956	1651
VERTICAL INTENSITY.													
DIRECT VALUES. $V = 50300 + \dots$	86	98	118	120	113	114	123	122	139	132	126	117	117
QUIET VALUES. $V_0 = 50300 + \dots$	95	101	121	119	120	120	122	123	123	130	131	128	119
RANGE	354	415	558	340	306	272	272	321	428	313	360	299	358
QUIET RANGE	12	13	12	10	16	17	13	12	15	10	13	15	13
STORMINESS, MEAN (UNIT $\gamma$ ).	-9	-3	-4	1	-6	-5	2	0	14	1	-6	-9	-2
DIURNAL SUM PS (UNIT $\gamma$ ).	231	364	491	318	251	223	447	441	640	307	284	167	347
NS	440	435	579	294	330	401	432	294	273	418	382	389	399
AS	671	799	1070	612	641	553	848	873	933	581	701	546	736



Resuming Tables.

Storminess.

Tromsø.

Declination. Unit Gamma. + West.

1941		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	0	0	1	2	4	4	4	4	3	3	5	7	6	7	5	2	6	4	4	4	5	0	1	
FEB	MPS	0	0	0	0	1	5	6	7	4	3	3	5	7	10	9	6	7	9	10	11	8	1	2	1	
MAR	MPS	0	0	1	0	1	2	2	1	2	1	4	6	8	9	9	9	8	12	17	14	5	4	1	1	
APR	MPS	0	0	0	0	1	3	2	2	2	1	5	8	11	13	14	19	18	15	10	11	4	1	2	0	
MAY	MPS	1	0	0	0	1	3	3	4	4	6	9	7	10	11	13	13	14	24	24	17	9	2	0	0	
JUN	MPS	1	0	0	0	0	1	2	1	2	1	5	11	15	16	17	13	11	15	16	15	10	3	1	0	
JUL	MPS	1	0	0	0	1	2	2	3	5	4	6	8	9	9	7	13	13	15	20	18	18	6	3	1	
AUG	MPS	0	0	0	0	1	2	3	4	5	4	6	9	13	14	13	13	22	22	24	19	11	7	2	0	
SEP	MPS	0	0	1	0	1	2	1	2	3	4	3	5	10	9	10	16	18	19	18	13	5	0	0	0	
OCT	MPS	0	0	0	0	2	3	2	2	1	1	1	2	7	8	8	8	13	10	11	10	6	0	1	3	
NOV	MPS	2	2	1	1	5	5	6	3	1	3	3	3	4	6	5	5	13	12	11	4	3	2	1	0	
DEC	MPS	0	0	1	1	2	4	4	2	2	3	8	4	6	5	9	11	17	13	9	6	5	3	2	0	
MEAN		1	0	0	0	2	3	3	3	3	4	5	6	9	10	10	11	13	14	15	12	7	3	1	1	
JAN	MNS	27	38	24	16	12	4	2	1	1	2	1	0	1	2	8	8	10	15	5	16	10	13	25	24	
FEB	MNS	32	36	43	27	11	5	1	1	2	3	3	2	1	1	3	6	13	6	10	15	12	26	25	33	
MAR	MNS	40	62	53	38	22	10	11	8	13	17	9	7	4	1	7	10	9	8	9	6	15	44	50	61	
APR	MNS	59	45	36	26	10	6	3	4	5	5	1	1	0	1	1	1	1	0	3	4	5	19	37	36	
MAY	MNS	41	53	42	37	19	7	8	4	3	2	1	1	0	0	0	1	0	0	2	4	17	33	27		
JUN	MNS	36	43	51	33	16	10	11	7	5	5	2	0	0	0	0	0	1	1	0	0	3	8	19	26	
JUL	MNS	31	51	36	32	19	10	12	20	23	7	22	17	5	2	3	2	2	0	0	0	0	12	18	30	
AUG	MNS	55	42	41	30	17	11	5	3	4	3	6	4	10	3	3	2	1	0	0	3	8	13	22	33	
SEP	MNS	49	46	27	35	31	24	17	20	13	7	13	19	2	3	2	5	3	1	3	11	15	41	35	40	
OCT	MNS	28	28	21	12	8	2	4	5	4	5	4	2	1	0	3	2	2	4	6	4	14	25	35	29	
NOV	MNS	32	37	28	22	8	7	6	6	8	4	6	3	1	3	6	7	8	4	8	7	19	31	28	29	
DEC	MNS	23	23	23	15	4	2	2	1	1	1	1	0	0	4	1	1	2	2	4	7	15	30	28		
MEAN		34	42	36	27	14	8	7	7	7	6	6	5	2	1	3	4	4	3	4	6	9	22	30	33	
JAN	MPS	MNS	-25	-38	-24	-15	-10	0	1	3	3	1	2	5	6	3	-1	-3	-8	-8	-1	-12	-6	-8	-25	-23
FEB	MPS	MNS	32	36	43	27	-11	0	5	6	2	0	0	3	6	9	6	1	-6	3	-2	4	-4	-25	-23	-32
MAR	MPS	MNS	-40	-61	-62	-38	-21	-8	-8	-7	-11	-15	-5	0	4	8	2	-2	-1	4	8	7	-10	-41	-49	-60
APR	MPS	MNS	-39	-45	-36	-26	-9	-3	-2	-1	-3	-4	3	8	11	12	14	18	16	15	7	7	-1	-18	-35	-55
MAY	MPS	MNS	-42	-53	-42	-37	-18	-4	-5	-1	1	4	8	6	10	11	13	12	14	24	24	15	5	-15	-33	-27
JUN	MPS	MNS	-35	-43	-51	-33	-16	-9	-10	-6	-3	-4	4	11	15	16	17	13	11	14	16	15	7	-5	-18	-26
JUL	MPS	MNS	-30	-50	-36	-32	-18	-8	-10	-17	-19	-3	-16	-9	4	7	4	11	11	15	20	18	18	-6	-16	-29
AUG	MPS	MNS	-55	-42	-41	-30	-17	-9	-3	1	1	1	0	5	3	11	10	15	21	22	24	15	3	-6	-20	-33
SEP	MPS	MNS	-49	-45	-28	-35	-20	-22	-16	-18	-10	-3	-10	-14	8	6	8	11	15	18	16	2	-10	-41	-35	-40
OCT	MPS	MNS	-28	-28	-21	-12	-1	1	-2	-3	-3	-5	-2	1	4	8	5	7	11	6	5	6	-7	-24	-34	-26
NOV	MPS	MNS	-30	-35	-27	-20	-2	-1	0	-3	-7	-2	-3	1	3	3	-1	-2	7	8	3	-3	-16	-29	-27	-29
DEC	MPS	MNS	-22	-23	-22	-14	-1	2	2	1	1	2	6	3	6	5	5	10	16	10	7	2	-2	-15	-28	-28
MEAN			-25	-35	-29	-22	-12	-3	-4	-4	-4	-2	-1	2	7	8	7	8	9	11	10	6	-2	-19	-29	-32

Horizontal Intensity. Unit Gamma.

1941		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	2	5	5	7	4	7	6	11	19	22	48	45	47	31	14	16	14	8	4	1	0
FEB	MPS	0	0	0	2	6	8	12	9	7	11	27	35	40	63	66	58	45	50	27	11	5	13	20	1
MAR	MPS	1	1	0	1	4	3	6	8	13	30	63	58	65	61	64	52	42	21	10	4	2	1	0	0
APR	MPS	1	1	2	1	3	4	2	3	6	8	12	24	34	48	59	52	44	27	14	3	0	0	0	0
MAY	MPS	1	1	1	3	4	5	6	5	6	13	26	34	60	64	65	59	64	60	42	19	7	2	1	1
JUN	MPS	0	0	1	2	3	3	2	3	4	12	23	18	31	36	50	44	48	50	41	20	60	1	1	0
JUL	MPS	0	0	0	0	0	1	0	1	1	12	24	30	38	45	46	43	48	36	25	11	2	0	0	0
AUG	MPS	0	0	0	1	3	2	3	2	5	11	36	37	48	59	64	65	60	60	30	8	4	1	0	0
SEP	MPS	1	1	0	1	3	4	2	5	2	7	24	27	35	60	68	61	47	36	16	9	1	0	0	1
OCT	MPS	1	1	1	1	1	3	4	3	5	7	13	15	18	30	35	38	34	25	13	7	2	0	0	0
NOV	MPS	1	3	3	5	6	8	7	10	14	21	26	25	34	38	35	34	20	12	15	14	7	2	3	1
DEC	MPS	3	2	1	3	6	7	8	6	6	8	14	18	22	24	27	39	48	51	49	30	15	8	2	1
MEAN		1	1	1	2	4	4	5	5	6	12	25	28	37	48	51	49	44	37	25	13	9	3	2	0
JAN	MNS	88	66	43	23	22	10	2	5	3	5	2	0	0	0	1	15	21	18	39	48	89	103	99	
FEB	MNS	94	109	90	54	23	9	6	1	1	1	1	1	0	0	0	1	5	12	33	71	102	141	119	130
MAR	MNS	151	140	136	78	61	35	23	31	30	32	3	2	1	2	17	19	19	48	65	126	166	224	246	191
APR	MNS	103	103	78	55	29	27	23	15	5	7	4	2	2	2	4	6	2	7	32	46	83	119	160	131
MAY	MNS	126	126	76	56	44	33	22	10	6	4	2	1	1	0	0	0	1	6	20	52	96	150	116	
JUN	MNS	111	87	70	50	18	9	11	9	7	2	1	4	3	1	0	0	0	1	9	32	64	87	113	

JUL	MNS	142	132	115	81	52	38	35	30	23	9	7	3	2	5	15	11	10	6	8	22	39	87	102	116	
AUG	MNS	84	99	78	47	36	33	18	8	4	2	1	1	1	0	3	0	1	4	7	24	38	72	82	99	
SEP	MNS	104	100	75	82	66	28	15	26	20	10	4	10	10	8	13	18	17	23	60	77	106	117	116		
OCT	MNS	98	53	39	29	17	7	10	3	2	2	1	1	1	1	1	1	0	8	27	34	74	112	111	125	
NOV	MNS	100	84	68	59	28	15	18	4	0	0	0	0	0	2	7	8	8	25	54	43	63	109	104	97	
DEC	MNS	70	41	41	33	13	9	2	0	4	1	0	0	0	0	6	5	9	9	10	17	30	74	96	94	
MEAN		106	97	77	54	35	21	15	12	9	6	2	2	2	2	5	5	7	14	24	18	67	108	121	119	
JAN	MPS	MNS	-87	-64	-42	-20	-17	-5	5	-1	4	1	9	19	22	48	43	46	16	-7	-2	-25	-39	-85	-102	-99
FEB	MPS	MNS	-94	-108	-90	-52	-17	0	6	11	6	10	26	34	40	63	65	57	40	38	-6	-60	-98	-128	-99	-129
MAR	MPS	MNS	-150	-159	-136	-77	-66	-32	-17	-23	-17	-2	60	86	64	60	47	33	22	-27	-55	-122	-163	-223	-246	-191
APR	MPS	MNS	-102	-102	-76	-54	-26	-23	-20	-10	1	2	8	23	32	45	55	46	42	20	-18	-43	-83	-119	-160	-131
MAY	MPS	MNS	-125	-125	-75	-63	-40	-28	-16	-5	0	9	24	33	59	64	64	59	64	60	35	-1	-46	-93	-129	-116
JUN	MPS	MNS	-111	-87	-70	-48	-16	-6	-8	-8	-3	10	22	22	29	35	50	44	48	50	40	11	-26	-63	-87	-113
JUL	MPS	MNS	-142	-132	-115	-81	-58	-38	-35	-29	-22	3	17	26	36	40	31	32	38	29	17	-11	-37	-87	-102	-116
AUG	MPS	MNS	-84	-99	-78	-45	-34	-31	-16	-7	1	9	35	38	48	58	61	65	59	56	23	-16	-35	-71	-81	-99
SEP	MPS	MNS	-104	-99	-75	-81	-63	-24	-13	-20	-18	-3	-20	17	25	50	50	38	30	19	-7	-51	-76	-106	-117	-115
OCT	MPS	MNS	-98	-62	-38	-29	-16	-3	-6	0	3	5	12	14	17	28	34	37	34	17	-14	-27	-71	-112	-111	-125
NOV	MPS	MNS	-99	-81	-65	-54	-22	-7	-10	6	14	21	26	25	34	36	28	26	12	-13	-39	-29	-57	-107	-101	-95
DEC	MPS	MNS	-68	-39	-39	-30	-12	-2	7	6	1	8	14	12	22	24	21	34	39	42	39	13	-16	-68	-94	-93
MEAN			-105	-96	-76	-52	-31	-17	-10	-7	-3	6	23	26	35	46	46	44	37	23	1	-6	-58	-105	-119	-119

Vertical Intensity. Unit Gamma.

1941		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	18	12	0	1	0	1	3	5	8	12	14	13	13	17	18	11	7	6	4	5	13	13	17	21	
FEB	MPS	37	25	6	3	0	1	2	4	7	9	20	20	19	18	16	15	11	5	3	7	28	34	36	38	
MAR	MPS	56	50	27	5	0	0	3	7	20	13	9	15	7	10	14	12	8	6	2	9	28	65	79	46	
APR	MPS	17	14	5	1	0	4	4	5	7	9	8	11	19	19	18	15	13	11	5	3	26	38	40	27	
MAY	MPS	35	19	3	0	4	2	2	3	6	3	2	8	11	15	15	13	9	2	3	14	20	33	24	24	
JUN	MPS	28	9	1	0	1	0	3	4	5	6	7	4	8	13	13	12	11	5	1	2	15	18	25	31	
JUL	MPS	46	27	41	19	21	2	19	2	18	12	8	13	13	17	15	12	10	7	4	9	18	37	29	34	
AUG	MPS	68	56	28	4	1	1	2	8	8	10	8	7	10	9	9	12	6	8	3	5	26	38	57	58	
SEP	MPS	48	34	19	17	30	17	16	30	19	16	11	11	13	13	19	15	9	6	14	39	61	68	60	52	
OCT	MPS	10	3	2	1	0	0	1	5	8	9	8	10	12	17	22	14	6	8	5	7	20	34	49	57	
NOV	MPS	42	18	9	6	6	3	7	7	6	8	9	9	8	9	10	7	6	6	7	4	24	23	25	23	
DEC	MPS	16	3	2	1	1	0	1	3	2	3	3	3	7	8	13	12	9	5	6	13	9	17	13	17	
MEAN		35	23	12	5	5	3	5	7	10	9	9	10	12	14	15	13	9	6	5	9	24	34	39	36	
JAN	MNS	27	25	28	22	18	14	6	2	1	1	1	1	1	6	11	19	34	51	31	49	31	84	27	14	
FEB	MNS	18	16	32	34	34	24	14	5	1	1	2	3	2	2	7	11	30	32	50	38	32	18	15	16	
MAR	MNS	18	16	32	34	34	24	14	5	1	1	2	3	2	2	7	11	30	32	50	38	32	18	15	16	
APR	MNS	17	19	18	36	32	15	7	3	2	2	2	2	0	9	12	15	16	6	13	16	7	8	17	14	
MAY	MNS	17	25	42	48	34	31	18	12	8	7	9	2	6	7	7	3	11	19	18	21	16	12	11	9	
JUN	MNS	18	26	37	41	35	17	8	6	4	4	4	4	4	3	4	6	9	12	17	19	16	15	7	14	
JUL	MNS	10	27	25	29	24	21	11	3	0	3	8	13	16	34	32	35	18	16	18	12	9	13	13	16	
AUG	MNS	25	23	29	22	23	16	17	6	4	6	6	18	19	25	38	28	20	15	15	18	15	12	20	17	
SEP	MNS	11	18	29	27	17	10	2	1	1	5	4	17	12	17	25	5	17	17	8	13	5	6	15	10	
OCT	MNS	15	27	24	24	31	20	7	3	1	0	0	1	1	3	2	3	21	18	16	14	19	10	10	6	
NOV	MNS	13	14	19	21	25	19	4	6	4	5	9	8	17	21	22	26	36	34	33	24	24	17	16	10	
DEC	MNS	25	21	19	22	20	16	9	7	2	3	7	4	6	10	8	16	19	27	22	13	29	31	24	23	
MEAN		19	24	28	30	28	20	10	5	2	4	5	7	8	14	10	15	21	24	24	24	20	14	16	14	
JAN	MPS	MNS	-9	-11	-28	-20	-17	-13	-3	3	7	11	14	13	12	11	6	-8	-27	-46	-26	-44	-18	-11	-10	7
FEB	MPS	MNS	19	10	-26	-51	-34	-23	-12	-1	6	9	18	17	16	16	9	4	-19	-26	-47	-31	-3	15	21	22
MAR	MPS	MNS	30	26	-3	-31	-38	-37	-11	0	19	6	7	7	-12	-17	-21	-2	-22	-38	-46	-39	-5	58	55	22
APR	MPS	MNS	0	-5	-13	-35	-31	-12	-2	2	5	7	6	9	19	10	-1	0	-3	5	-7	-13	19	30	23	12
MAY	MPS	MNS	16	-6	-39	-48	-30	-29	-15	-9	-3	-4	-6	6	5	7	9	10	-2	-17	-15	-18	-2	7	23	15
JUN	MPS	MNS	11	-17	-36	-41	-34	-16	-5	-3	1	2	2	0	4	10	9	6	2	-7	-16	-18	-1	3	19	17
JUL	MPS	MNS	36	0	16	-10	-4	-18	8	21	17	8	0	0	-3	-17	-17	-22	-8	-9	-14	-3	9	24	16	18
AUG	MPS	MNS	43	33	-1	-18	-22	-16	-15	3	5	4	2	-11	-9	-16	-28	-14	-14	-7	-12	-15	10	26	37	40
SEP	MPS	MNS	36	16	-10	-10	13	7	14	29	18	11	7	-6	1	-4	-5	10	-8	-11	6	26	57	62	44	48
OCT	MPS	MNS	-5	-24	-21	-23	-30	-19	-6	2	7	8	8	9	11	15	20	9	-15	-10	-12	-8	1	24	39	51
NOV	MPS	MNS	29	4	-10	-16	-18	-16	3	1	2	2	1	1	-9	-12	-12	-19	-30	-28	-33	-20	10	7	9	13
DEC	MPS	MNS	-9	-18	-17	-21	-19	-16	-8	-4	0	0	-3	-1	-3	4	-4	-10	-22	-16	0	-21	-14	-10	-6	
MEAN			17	1	-9	-26	-21	-17	-4	4	7	5	5	4	3	0	2	-3	-13	-18	-20	-15	5	20	22	21

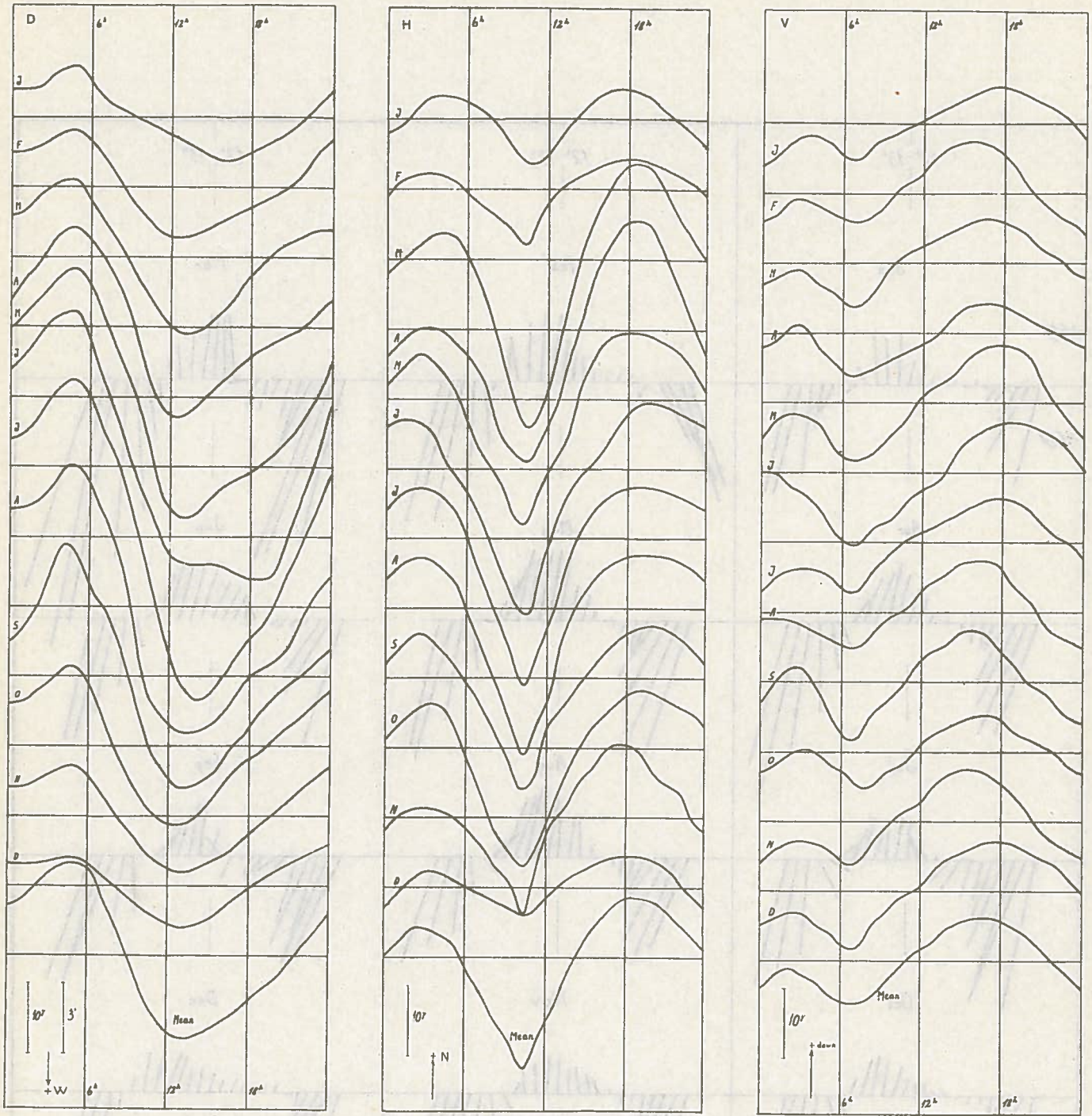


Fig. 1. The Quiet Diurnal Variation, smoothed Values.

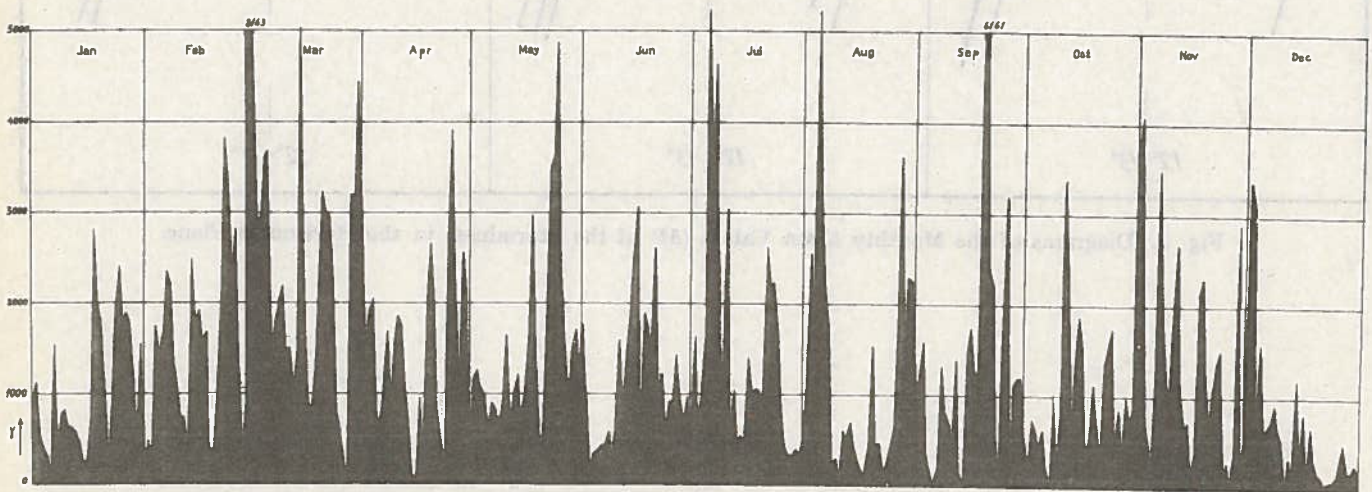


Fig. 2. The Diurnal Sum of the Absolute Storminess of H.

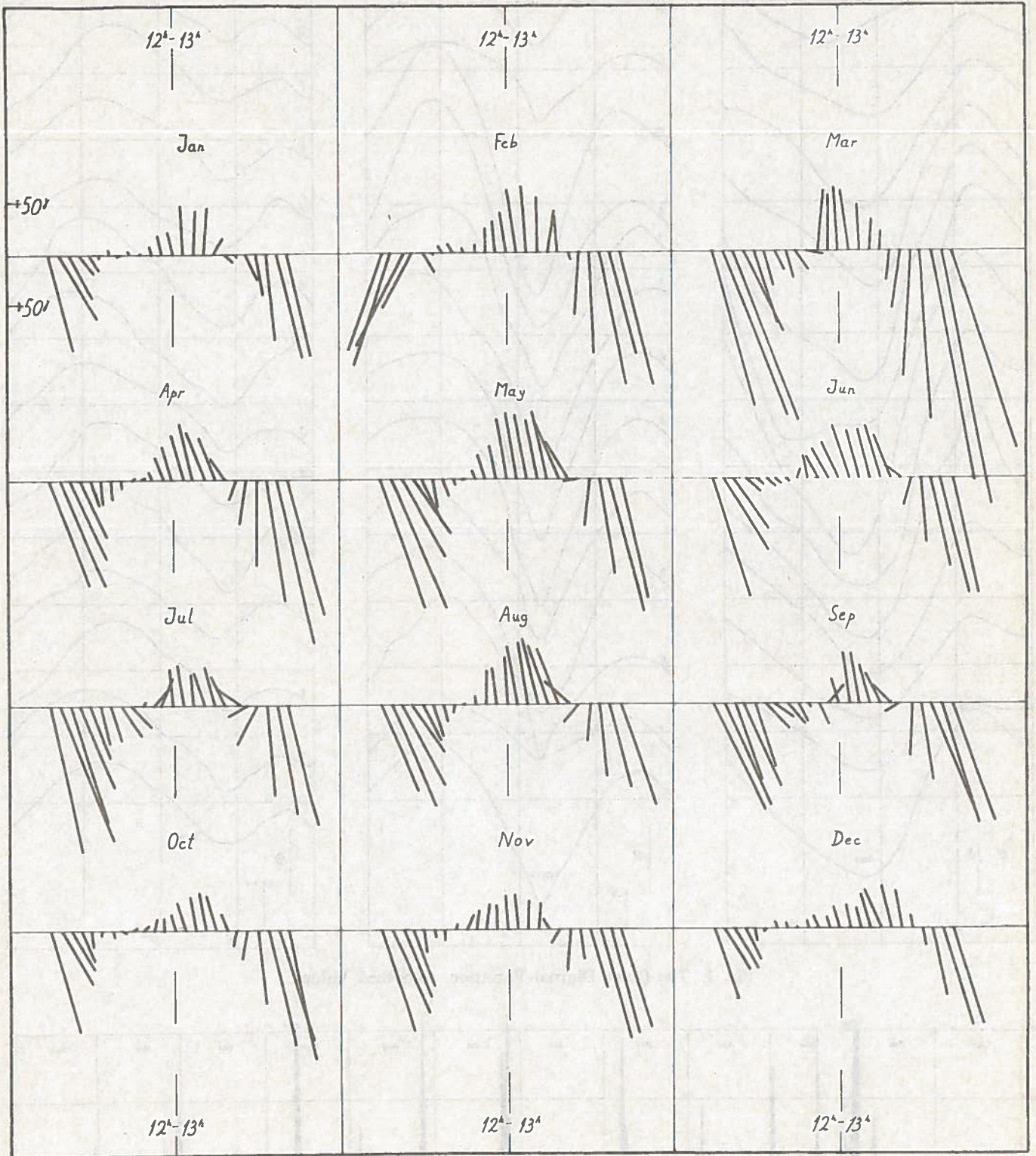


Fig. 3. Diagrams of the Monthly Mean Values ( $M$ ) of the Storminess in the Horizontal Plane.

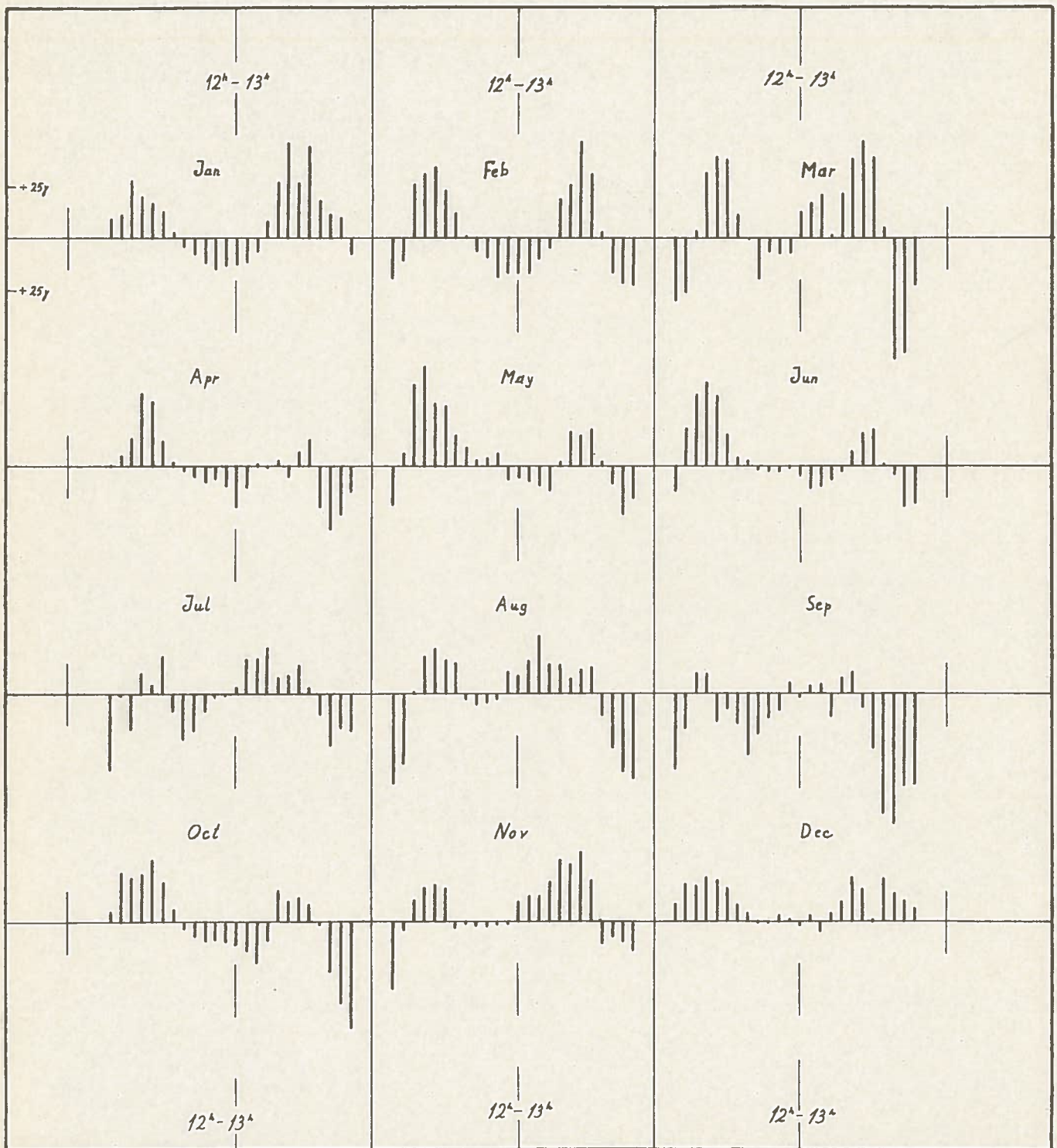
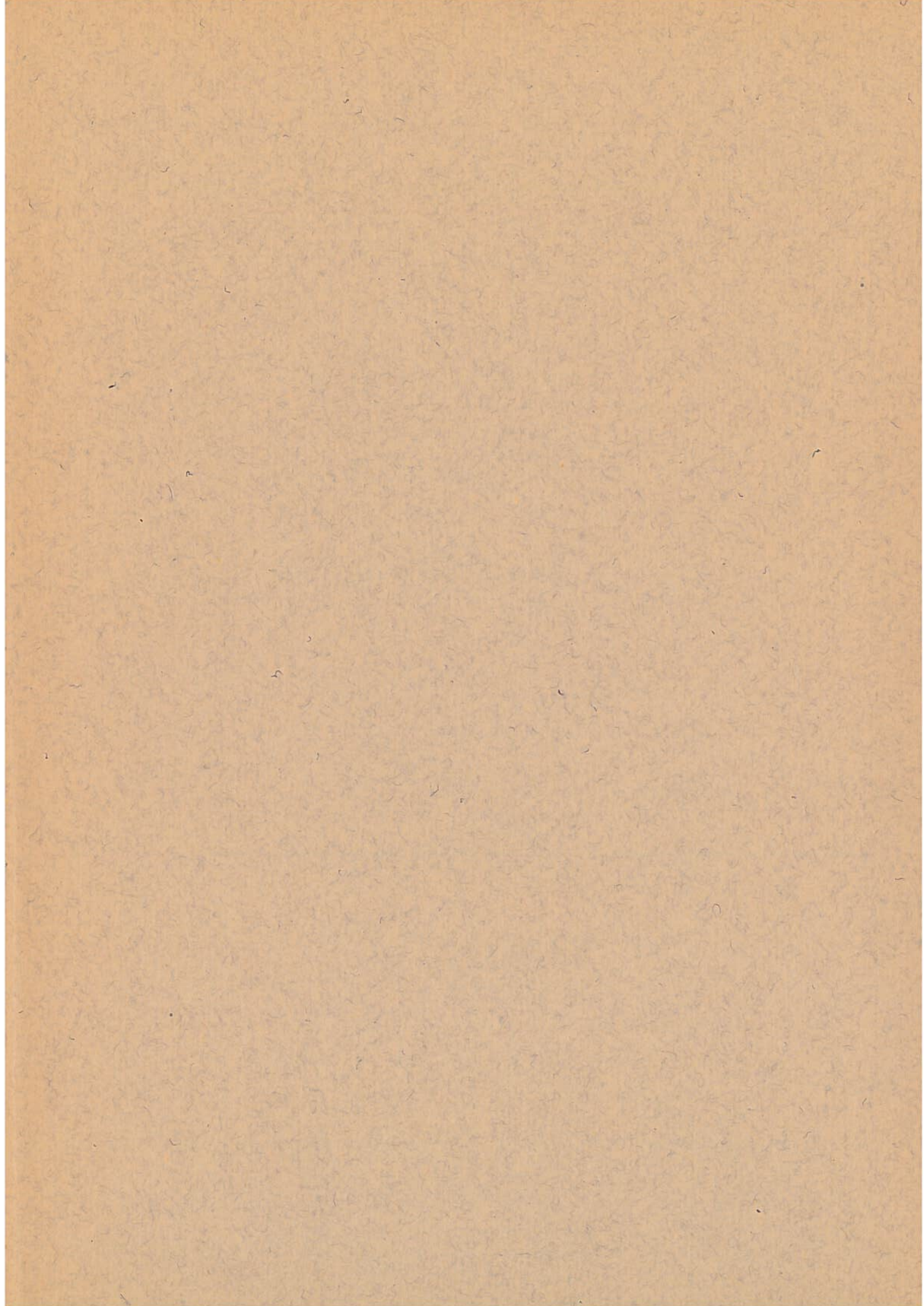


Fig. 4. Diagrams of the Monthly Mean Values (*M*) of the Storminess of the Vertical Intensity.





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