

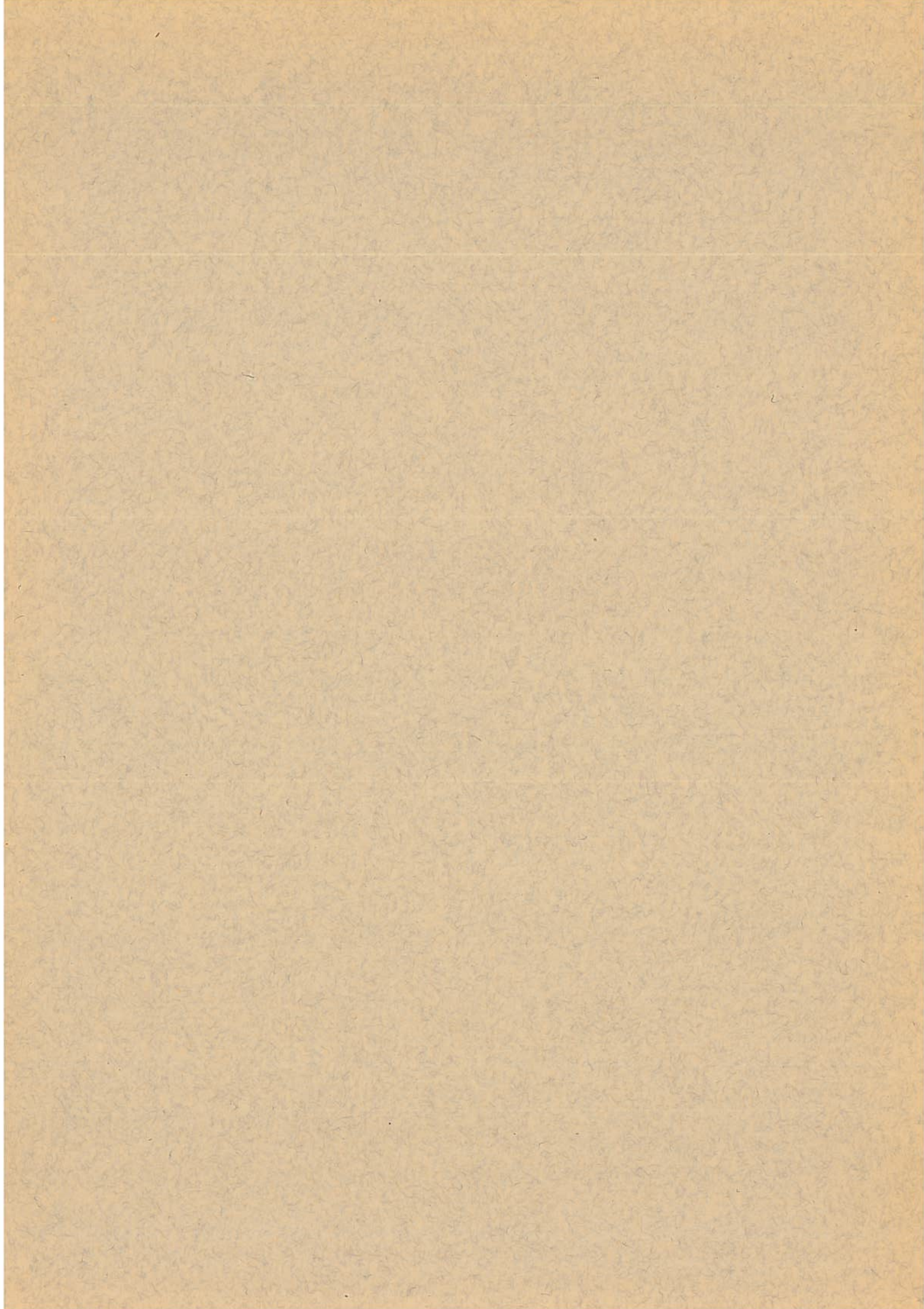
Publikasjoner fra
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK
Nr. 5.

THE AURORAL OBSERVATORY AT TROMSÖ
($\varphi = 69^{\circ} 39'.8$ N, $\lambda = 18^{\circ} 56'.9$ E Gr.)
RESULTS OF MAGNETIC OBSERVATIONS
FOR THE YEAR 1933

By
LEIV HARANG and E. TÖNSBERG

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A.S JOHN GRIEGS BOKTRYKKERI, BERGEN



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General Remarks.

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

The observations during the year have been made by E. Tønsberg.

Scale Values.

The following scale-values have been used during the year:

D-variometer: 1'.45 per mm — which corresponds to
4.85 γ per mm.
H-variometer: 5.06 γ per mm.
V-variometer: 6.75 γ per mm.

Base-line Values.

The absolute measurements of the Declination, the Horizontal Intensity and the Inclination result in the table given below of observed and adopted base-line values.

On april 19th a displacement of the light source has caused changes of the base-line values of *D* and *H*. The small changes of the *H* base-line on July 2nd and August 3rd and of the *D* base-line of August 3rd are due to vertical displacements of the mirrors of the respective base-lines in order to have the light spots of a suitable intensity.

Only four series of observations of the Inclination were taken. At present the observatory has no suitable galvanometer for earth-inductor measurements, but a suitable one has occasionally been lent from Prof. S. Sæland.

The temperature coefficient for the *H*-variometer is determined at 8.0 γ per degree Celsius. The *V*-variometer—a Balance de Godhavn—is equipped with temperature-compensation.

Observed and adopted Base-line Values for D, H and V.

Date	<i>D</i> observed	<i>D</i> adopted	<i>H</i> observed	<i>H</i> adopted	<i>V</i> observed	<i>V</i> adopted
II 3	3° 43'·2 W	3° 43'·5 W	113 97 γ	113 98 γ		
17	43·8	·5	99	98		
III 6	43·6	·5	99	98	502 00 γ	
IV 1	42·6	·5	97	98		
26	40·6	40·4	114 04	114 04		
V 24	40·2	·4	04	04		
25	40·3	·4	04	04		
VI 8	40·3	·4	05	04		
VII 5	40·4	·4	113 98	113 99	502 08	Successively
6	40·4	·4	114 00	99	502 10	changed
VIII 17	40·1	41·0	114 03	114 03	502 16	from
21	40·8	·0	05	03		501 95 γ
XI 14	41·2	·0	04	03		to
22	41·2	·0	02	03		502 15 γ
XII 20	41·0	·0	02	03		during the year

Explanation of the Tables.

For each of the earth-magnetic 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 hourly values, and the horizontal line marked *QM* the monthly means of the *quiet* hourly values.

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

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

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

TABLE I. - *Chemical Analysis of the Soil*

Sample No.	Location	Total Solids	Total Solids (Dry)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	
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TABLES

Sample No.	Location	Total Solids	Total Solids (Dry)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	Total Solids (Wet)	
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20																					
21																					
22																					

Tromsø.

Declination. D = 3° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

JANUARY 1933

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	300	360	400	390	420	430	450	460	470	460	480	470	480	520	520	510	480	450	460	480	450	300	510	420	446	104	
2	420	240	330	420	450	440	450	460	460	460	500	470	470	450	460	460	470	430	290	450	470	440	420	436	65		
3	400	420	440	450	420	450	430	450	460	460	470	460	490	480	470	470	460	460	460	455	430	445	430	420	449	23	
4	400	420	425	420	430	445	445	445	445	460	470	460	460	460	460	460	460	420	445	445	445	445	440	455	445	19	
5	445	445	445	445	445	440	445	460	470	470	460	460	460	470	460	455	455	455	455	455	455	455	455	445	445	16	
6	450	430	440	400	420	430	450	490	510	490	490	550	580	530	460	530	480	450	450	460	400	400	360	240	455	68	
7	210	345	445	445	480	460	445	445	460	445	460	470	465	455	455	460	460	520	520	540	455	445	440	410	447	87	
8	430	455	445	445	445	455	480	460	455	460	460	485	470	445	460	445	445	460	445	445	430	400	455	430	450	23	
9	445	445	450	460	450	480	480	460	455	445	455	455	460	460	445	445	400	490	480	460	450	375	420	395	420	23	
10	440	445	455	455	455	455	445	445	440	440	440	445	445	445	445	445	445	460	445	445	460	425	420	400	425	17	
11	445	445	445	445	445	445	445	445	455	460	470	460	470	490	470	470	460	455	455	445	440	440	425	430	445	13	
12	445	460	460	445	445	445	445	445	440	440	445	445	445	455	445	445	445	445	445	445	445	440	420	425	390	443	15
13	400	420	445	445	445	445	455	460	460	460	465	480	480	455	455	455	455	455	470	470	480	445	420	440	455	23	
14	440	440	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	100	
15	340	510	490	460	420	570	480	400	510	480	400	510	480	460	490	450	450	450	400	360	390	330	300	390	440	81	
16	390	420	420	390	430	480	445	430	430	445	455	480	460	430	445	420	430	445	440	395	420	430	430	430	432	17	
17	430	445	445	440	445	440	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	10	
18	420	425	425	430	430	430	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	19	
19	445	440	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	104	
20	255	360	470	420	345	630	540	545	510	470	480	480	480	460	445	455	445	445	445	445	445	445	445	445	445	59	
21	430	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	23	
22	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	141	
23	360	330	450	450	450	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	158	
24	230	90	230	450	420	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	78	
25	270	300	390	400	460	450	450	460	430	440	490	500	490	510	480	520	530	490	450	450	420	430	240	60	421	89	
26	300	330	360	200	330	380	430	450	450	420	450	460	510	520	540	480	520	540	540	480	300	360	360	210	413	91	
27	230	430	360	390	370	460	450	460	450	450	460	460	480	520	550	480	540	210	450	660	390	300	360	350	427	135	
28	390	230	90	450	390	390	430	440	450	450	450	450	480	270	480	380	360	480	320	390	330	260	390	375	87		
29	270	270	430	480	460	460	460	430	450	450	460	490	510	520	510	450	430	480	420	330	330	390	390	428	70		
30	420	360	300	320	360	390	450	440	460	450	430	450	480	460	460	450	440	450	450	430	490	600	320	340	425	93	
31	300	300	380	390	430	430	430	440	410	450	430	450	480	520	460	490	460	490	420	430	430	460	340	370	420	36	
M	374	384	408	423	429	447	457	453	451	455	463	469	474	469	475	467	473	454	457	444	417	413	389	366	438	61	
GM	445	445	445	445	445	445	445	445	450	455	455	455	455	455	455	455	455	455	450	445	445	445	445	445	445	450	

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	400	410	420	430	430	440	440	440	430	445	455	445	460	455	455	455	445	445	430	440	430	420	400	365	433	19	
2	400	400	390	380	420	420	420	450	480	490	490	490	490	490	490	460	450	550	450	420	430	380	400	380	441	39	
3	485	485	480	470	460	455	455	455	455	455	460	460	480	480	490	455	460	460	445	445	430	420	360	270	448	41	
4	420	420	420	420	425	430	430	430	445	445	460	460	480	460	455	460	480	480	520	390	445	445	360	410	441	46	
5	375	400	335	375	420	445	445	445	445	445	445	445	445	445	445	445	460	460	460	445	430	430	430	430	431	15	
6	440	430	445	430	420	420	420	420	430	445	455	445	445	445	445	445	445	440	440	430	390	420	430	440	433	19	
7	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	26	
8	430	430	430	430	430	430	430	445	430	445	460	460	470	460	455	455	455	445	445	445	445	375	335	360	330	428	29
9	400	380	370	390	430	460	450	430	430	430	450	460	490	480	490	540	510	460	460	490	480	450	410	390	447	32	
10	375	390	360	390	400	420	440	445	445	445	445	445	445	445	445	445	445	445	445	445	440	430	390	420	426	25	
11	420	420	420	425	425	425	430	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	445	12	
12	430	430	425	440	440	440	440	445	455	455	455	455	430	430	420	420	425	430	445	445	430	430	430	430	436	6	
13	440	430	450	425	420	420	420	425	430	420	400	390	390	395	400	410	430	460	460	460	460	445	430	426	7		
14	460	450	430	440	450	440	430	440	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	81	
15	420	450	430	430	450	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	51	
16	420	420	425	425	430	425	430	440	430	445	440	445	445	445	440	430	430	425	425	425	400	400	420	420	428	9	
17	420	420	420	420	420	420	420	420	420	425	430	445	445	445	440	440	430	430	430	430	430	430	430	430	429	4	
18	430	430	440	440	430	430	425	425	425	430	445	460	460	470	480	480	480	470	455	460	390	390	360	360	434	44	
19	320	260	330	360	420	420	450	460	480	470	520	530	570	600	520	480	540	380	330	-210	420	360	360	360	404	147	
20	30	-210	-30	320	390	400	480	420	430	480	480	490	520	510	520	490	450	480	400	460	430	400	390	390	375		

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1933

HOURLY MEAN VALUES

Table for January 1933 showing hourly mean values for declination and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -50 to 28.

FEBRUARY

Table for February showing hourly mean values for declination and storminess. Columns include Day (1-28), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -50 to 28.

MARCH

Table for March showing hourly mean values for declination and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -50 to 28.

Tromsø.

Declination. D = 3° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

APRIL 1933

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	390	360	360	340	380	390	450	430	450	490	490	510	490	500	490	460	460	420	390	400	390	350	400	422	54		
2	320	380	380	370	400	370	380	380	400	420	450	490	520	520	490	450	430	420	450	390	270	210	230	140	360	54	
3	300	320	310	300	360	375	390	390	400	420	430	460	485	480	460	445	460	500	510	470	445	440	420	400	399	65	
4	360	330	330	320	340	360	360	380	390	420	450	500	510	520	510	490	480	480	510	450	390	340	240	413	61		
5	210	90	350	375	390	380	390	400	425	420	445	485	485	510	480	485	460	455	445	490	300	160	240	360	395	93	
6	390	390	350	360	350	390	390	400	420	420	470	480	520	490	570	520	390	510	490	540	120	300	390	380	418	109	
7	390	390	380	390	390	390	420	420	445	460	460	460	460	490	480	510	500	445	390	390	420	360	360	270	416	42	
8	210	200	360	400	400	400	380	430	420	400	450	480	490	510	490	420	450	440	420	440	430	420	400	400	410	57	
9	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	30
10	425	410	400	400	390	390	390	390	410	426	445	460	485	510	460	445	445	430	430	445	410	420	400	410	428	17	
11	420	400	400	400	420	400	395	420	420	445	445	425	445	445	445	445	430	430	430	430	420	420	420	420	422	10	
12	420	395	395	395	390	380	390	400	420	420	430	445	445	445	445	440	440	440	440	420	425	425	420	420	421	10	
13	420	420	410	390	390	390	375	390	400	430	480	510	510	510	520	515	540	550	520	360	400	270	255	436	78		
14	360	340	330	340	330	360	430	440	440	430	490	530	540	520	550	510	470	540	570	550	210	480	230	140	422	161	
15	290	290	270	330	300	420	390	400	410	430	450	490	510	550	360	450	470	460	380	150	270	400	360	340	382	71	
16	480	90	-50	300	360	450	450	450	450	460	480	510	680	630	630	660	480	510	490	480	470	210	270	260	424	102	
17	-150	30	240	310	320	360	400	420	450	440	450	480	510	490	540	490	420	460	380	360	450	270	-510	-30	516	181	
18	420	-60	-110	300	380	360	360	420	390	460	460	470	390	480	510	450	510	460	480	510	380	350	140	150	361	174	
19	270	310	340	340	330	300	360	380	380	390	450	430	480	510	390	540	600	480	510	460	390	300	300	300	398	74	
20	480	540	570	320	330	330	360	360	390	400	390	460	450	460	450	420	430	490	420	230	210	360	240	120	384	165	
21	-110	120	290	340	300	330	380	330	330	350	400	450	450	460	510	490	460	390	450	420	360	240	60	344	133		
22	150	320	290	300	300	330	300	390	390	420	420	460	480	510	480	490	430	390	430	330	360	240	-70	-51	351	86	
23	200	230	330	340	360	380	360	380	390	390	430	460	450	450	460	380	450	460	430	380	390	360	210	120	366	108	
24	90	670	340	320	330	340	360	370	420	400	430	460	480	420	480	390	400	450	440	430	360	390	320	270	387	103	
25	270	210	260	330	340	330	330	350	390	420	450	490	500	510	430	450	480	460	450	240	240	230	290	330	370	59	
26	360	360	360	330	315	345	360	365	390	400	430	460	460	445	440	420	425	430	360	390	410	150	210	90	363	75	
27	-30	75	160	330	350	345	360	375	395	425	430	470	455	455	420	420	400	420	425	410	420	315	330	300	353	104	
28	360	360	330	315	315	350	360	375	390	410	430	445	460	430	420	420	420	420	410	365	400	390	350	305	365	20	
29	330	330	330	330	330	345	345	360	375	390	400	425	445	420	445	460	480	375	510	545	390	-75	390	150	368	116	
M	289	297	311	341	354	369	378	394	405	421	447	472	488	487	478	468	457	454	449	416	366	335	289	256	392	81	
QM	400	390	385	380	375	375	375	385	405	415	435	440	450	450	440	430	430	430	425	420	415	410	410	405	410	380	74

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	240	300	330	300	290	290	300	360	380	420	470	540	720	660	570	980	1050	900	790	690	650	270	180	210	493	255
2	210	120	105	285	300	300	320	330	360	375	360	400	400	390	390	390	360	390	400	375	320	150	135	315	70	
3	75	120	120	270	300	320	315	330	360	390	395	390	400	430	440	430	430	480	300	395	420	390	375	240	338	73
4	290	310	330	380	380	365	390	420	420	420	430	440	420	430	470	300	510	600	270	360	375	345	335	92	119	
5	330	330	330	330	330	345	410	390	390	390	390	430	445	460	480	460	460	465	430	470	285	315	315	270	385	44
6	270	80	330	240	330	310	330	360	380	420	360	440	390	420	430	400	440	360	330	340	350	230	340	350	346	78
7	300	120	300	330	300	315	335	400	430	420	445	430	420	375	400	390	390	390	390	390	390	390	390	375	550	108
8	350	360	330	330	330	330	360	380	410	430	430	430	425	430	420	400	420	430	400	430	420	390	375	368	10	
9	360	360	350	330	330	330	315	330	360	395	390	400	420	410	395	395	390	390	395	400	395	390	390	375	15	15
10	375	320	315	330	360	330	360	390	445	460	445	445	445	445	445	430	390	400	400	400	380	380	375	392	20	
11	375	365	360	330	345	335	360	350	390	420	445	460	460	490	455	430	445	445	420	400	400	390	390	375	401	19
12	375	360	350	330	330	330	345	375	400	420	445	445	445	430	410	390	390	390	390	390	390	375	330	320	377	22
13	340	340	330	300	310	320	360	390	390	400	430	480	480	490	480	460	460	470	460	460	490	300	360	320	397	46
14	170	210	340	350	330	310	330	340	370	420	450	480	510	490	520	600	620	700	590	540	380	300	240	120	406	120
15	230	320	340	270	260	390	330	380	390	460	460	490	480	450	420	420	420	450	380	420	360	320	180	0	362	90
16	300	300	330	330	360	330	340	390	420	430	450	420	420	450	430	430	460	390	290	380	330	240	180	350	80	
17	180	230	330	300	330	330	340	390	390	420	430	430	430	450	460	480	510	480	400	450	390	240	330	375	84	
18	240	-30	120	180	90	150	360	360	420	380	390	480	510	450	460	430	450	440	400	420	420	330	330	300	337	132
19	300	330	320	320	330	330	360	360	390	420	420	430	440	420	450	460	480	680	450	330	290	330	340	386	80	
20	350	330	300	290	285	305	335	360	390	390	400	420	430	430	420	420	420	420	400	395	360	315	255	368	23	
21	300	315	330	330	305	315	330	380	420	430	445	445	445	430	420	390	390	400	420	430	420	380	375	380	384	28
22	340	330	330	310	300	300	330	360	400	430	450	450	450	450	390	450	450	470	460	460	420	430	340	350	393	30
23	360	360	330	320	320	320	330																			

Tromsö.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

APRIL 1933

HOURLY MEAN VALUES

Table for April 1933 showing hourly mean values for declination and storminess. Columns include Day (1-30), 25 hourly values, M, PS, NS, AS.

MAY

Table for May showing hourly mean values for declination and storminess. Columns include Day (1-31), 25 hourly values, M, PS, NS, AS.

JUNE

Table for June showing hourly mean values for declination and storminess. Columns include Day (1-30), 25 hourly values, M, PS, NS, AS.

Tromsø.

Declination. D = 3° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

HOURLY MEAN VALUES

JULY 1933

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	340	350	350	300	300	280	290	310	380	400	410	420	430	450	430	430	390	430	460	450	430	380	340	270	375	61
2	240	300	330	330	320	300	310	360	380	420	450	460	480	460	450	420	430	430	430	420	390	380	380	380	389	39
3	365	30	255	270	270	285	300	310	350	375	390	420	420	420	420	420	420	400	390	390	390	375	365	347	59	59
4	360	360	340	340	340	330	330	350	380	380	390	400	430	520	490	470	470	460	460	490	360	360	350	395	48	48
5	320	300	300	300	300	320	350	320	330	360	400	420	450	440	430	410	420	410	400	400	390	390	380	372	16	16
6	340	340	320	280	270	320	340	360	390	420	450	460	450	450	420	420	400	400	390	420	420	400	380	360	383	19
7	360	345	330	330	315	300	315	330	345	375	395	430	455	445	420	420	420	410	420	410	395	375	375	360	378	17
8	315	330	330	300	300	315	305	320	360	390	420	445	460	460	460	455	445	445	445	445	430	425	420	210	365	38
9	180	-230	120	240	280	290	350	390	390	390	460	480	450	420	460	430	440	460	460	450	450	420	360	330	352	115
10	330	320	300	270	270	350	320	340	360	420	450	460	450	430	420	420	430	460	510	430	360	330	230	150	365	58
11	200	30	260	300	320	320	330	360	380	420	460	460	490	570	500	460	430	420	400	390	380	360	330	372	62	62
12	260	260	330	380	420	430	420																			
13																										
14	320	270	300	300	300	300	320	340	360	390	400	430	430	430	420	420	420	420	420	420	420	420	420	340	368	22
15	345	345	315	315	305	300	320	330	345	360	390	430	445	430	410	410	420	420	420	420	420	375	360	335	373	19
16	340	330	310	300	320	310	310	330	350	390	440	450	470	460	450	450	450	450	440	420	390	390	380	390	390	17
17	390	350	300	300	330	330	330	330	390	420	450	440	430	480	510	460	480	480	450	430	360	340	280	390	339	39
18	285	195	220	360	350	390	390	390	380	420	430	445	460	445	455	445	445	445	430	390	375	360	360	350	385	67
19	345	330	350	345	330	345	345	350	365	375	400	430	445	430	390	425	420	420	400	400	375	300	285	371	26	26
20	210	360	360	345	375	375	390	360	360	410	430	445	455	445	430	390	390	390	390	390	390	375	375	384	32	32
21	330																									
22	360	360	375	315	300	345	365	390	420	390	400	430	460	455	455	460	430	420	420	420	395	390	365	360	395	22
23	340	320	320	290	290	300	300	320	340	360	390	400	460	480	460	630	650									
24																										
25	290	300																								
26	360	340	320	300	300	290	290	300	340	360	390	420	460	430	440	450	390	420	420	400	360	340	60	120	345	55
27	280	240																								
28	330	360	360	360	360	340	340	340	390	400	460	480	510	510	430	410	380	380	380	380	380	360	330	389	25	25
29	330	330	330	340	300	300	320	340	340	390	400	430	450	430	430	430	430	430	420	420	400	400	380	382	20	20
30	320	320	330	315	300	300	330	360	375	400	420	430	440	430	390	390	390	400	400	420	430	375	330	315	371	22
31	330	330	315	300	300	285	285	330	360	390	420	400	400	420	420	390	390	400	390	390	395	395	390	360	366	20
M	314	289	309	313	313	325	334	346	366	389	416	434	449	447	442	437	428	424	424	418	401	381	349	329	378	38
CM	350	340	330	320	320	315	330	340	360	375	390	400	420	430	425	420	410	400	400	400	395	390	375	360	360	

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	360	345	335	315	315	315	300	315	345	375	400	390	395	400	400	400	400	400	400	390	380	360	360	366	13	
2	330	315	330	330	315	285	285	300	345	375	400	420	420	430	400	400	390	400	400	395	330	330	345	361	16	
3	340	330	330	280	300	300	300	330	360	400	430	450	450	420	420	400	390	390	390	390	380	340	340	369	13	
4	335	330	315	315	315	315	300	315	345	375	400	425	425	430	420	400	400	410	410	420	390	390	360	368	25	
5	240	270	270	270	260	270	360	360	390	420	480	540	540	540	720	750	790	700	720	270	360	350	240	362	77	
6	220	170	-60	0	210	270	300	300	330	330	360	390	380	400	430	390	420	430	420	390	360	360	350	340	312	102
7	330	270	250	210	260	270	300	330	360	390	420	440	400	420	400	400	400	390	380	360	360	350	180	344	36	36
8	240	180	270	240	255	285	300	315	350	375	410	420	430	430	450	420	380	420	410	410	420	420	350	352	61	
9	290	270	270	270	280	290	300	330	360	380	430	450	450	430	420	390	390	400	400	400	380	360	330	363	20	
10	350	330	330	315	300	300	300	330	345	375	420	430	445	430	420	400	390	390	390	390	375	360	345	368	17	
11	360	360	300	290	290	285	300	330	335	360	375	395	400	390	390	380	380	390	390	400	390	375	360	315	356	13
12	350	315	315	315	305	305	315	320	360	375	420	420	420	410	395	395	395	425	445	430	395	360	270	368	19	
13	240	270	290	290	290	290	310	350	380	420	460	490	550	510	510	460	520	390	340	320	240	120	363	100		
14	270	270	110	290	300	330	360	380	390	420	430	460	460	460	480	480	490	470	460	450	390	330	300	374	46	
15	340	340	330	320	320	330	360	360	380	390	420	430	410	390	390	380	390	400	330	380	390	360	340	371	30	
16	340	300	300	300	320	320	320	300	330	340	380	400	420	400	400	380	380	380	360	400	390	340	350	340	354	16
17	340	300	300	330	360	330	330	300	390	400	390	400	420	420	420	390	390	420	390	360	330	340	300	310	359	32
18	300	300	300	300	315	315	390	445	425	420	420	425	420	445	460	540	585	565	600	240	360	120	180	377	138	
19	120	-170	30	310	380	420	360	450	460	420	390	400	400	400	420	430	420	430	420	430	270	260	320	320	335	173
20	260	330	330	300	330	380	380	390	400	420	420	430	460	480	420	420	450	520	520	290	430	380	180	140	378	91
21	260	250	270	320	300	330	330	380	390	380	390	380	450	390	400	520	570	510	480	430	300	270	330	290	270	367
22	270	330	315	300	300	300	300	345	390	420	420	420	390	375	360	345	360	360	375	375	360	345	345	345	352	17
23	345	345	345	320	320	320	330	360	345	400	420	430	430	480	490	440										

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JULY 1933

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	-2	4	0	-8	-7	-13	-13	-13	5	10	7	5	5	2	5	-7	10	20	15	12	-5	-10	-30	0	105	108	213		
2	-37	-13	0	2	0	5	5	15	20	20	10	12	10	3	10	10	7	7	0	2	5	4	5	4	163	60	223		
3	6	-103	-26	-18	-17	-10	-15	-15	-8	-5	0	0	0	0	0	0	0	0	0	0	0	0	2	-9	8	231	8	239	
4	8	7	6	7	8	5	0	-5	-3	0	0	2	30	22	17	20	20	17	30	-13	-10	-3	-3	7	193	37	230		
5	-10	-13	-10	-8	-7	0	0	-10	-10	-3	2	0	0	0	0	0	0	0	0	0	0	0	0	-3	2	71	73		
6	-6	2	-5	-16	-17	0	5	5	10	15	20	18	10	0	-3	0	-2	0	-5	5	7	2	0	0	2	99	53	152	
7	0	0	0	0	0	0	0	0	0	0	3	10	12	5	-3	0	3	2	5	2	-1	-5	0	0	1	42	9	51	
8	-12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-4	0	106	106		
9	-57	-188	-70	-28	-22	-8	0	-8	15	10	5	22	25	10	-5	12	5	10	17	25	15	17	10	-5	-10	-8	198	393	591
10	-7	-6	-10	-18	-17	5	-5	0	0	15	15	20	10	0	-3	0	8	20	35	10	-13	-20	-50	-70	-3	138	219	357	
11	-52	-103	-25	-8	2	0	0	5	0	0	10	20	15	20	47	27	18	10	5	0	-3	-5	-5	-10	-2	177	213	390	
12	-32	-26	0	19	33	37	30	0	0	0	0	0	0	2	-10	-12	-10	-25	10	10	7	7	5	0	-8	121	115	236	
13														-5	-1	12	13	10	10	7	7	5	0	-8	64	14	78		
14	-10	-23	-10	-8	-7	-5	-3	-3	0	5	5	7	5	0	-3	-5	-7	0	7	0	2	0	-5	-7	-3	31	96	127	
15	-2	2	-5	-3	-5	-3	-5	-5	0	5	0	10	10	0	0	0	0	0	0	0	0	-7	-5	-8	-2	22	58	80	
16	-2	-3	-8	-8	-2	-3	-8	-5	-3	5	17	15	17	7	7	10	13	15	15	12	7	-5	5	5	4	150	47	197	
17	13	4	-10	-8	3	5	0	-5	10	15	20	12	5	15	7	15	15	15	15	10	-13	-10	-10	-28	4	179	84	263	
18	-22	-48	-33	12	3	25	20	15	7	15	15	15	15	5	10	18	15	10	-5	-8	-3	-5	-3	3	210	127	337		
19	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	-10	5	5	0	2	-5	-25	-25	-2	29	65	94		
20	-47	7	10	7	18	20	20	5	0	12	15	15	12	10	10	0	0	0	0	0	0	0	0	5	5	166	47	213	
21	-7																								5	7	12	7	12
22	0	5	15	-3	-7	-10	12	15	20	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	3	82	20	102	
23	-2	-8	-5	-13	-12	-5	-10	-10	-5	-5	0	0	15	15	12	70	78								190	75	265		
24																									53	13	95	13	95
25	-20	-13																							0	78	78	0	78
26	3	-1	-5	-8	-7	-10	-15	-15	-8	-5	0	5	12	0	4	3	-7	5	5	0	-13	-15	-105	-80	-11	37	294	331	
27	-32	33																							233	60	293	60	293
28	-7	7	10	12	13	10	5	0	10	10	25	25	30	25	2	-3	-12	-10	-10	-10	-3	-10	-5	-10	4	184	80	254	
29	-7	-3	0	7	-7	-5	-5	0	-5	0	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	86	37	123	
30	-10	-6	0	-3	-7	-5	0	5	5	0	0	0	0	0	0	0	0	0	0	0	0	-10	-15	-15	-2	15	71	86	
31	-7	-3	-5	-8	-7	-10	-15	-5	0	0	0	0	0	0	0	0	0	0	-5	-5	0	2	5	0	-3	7	70	77	77
M	-13	-18	-7	-4	-3	2	1	1	2	4	8	9	9	5	5	6	6	6	6	4	0	-4	-10	-11	0	97	95	193	
MPS	1	2	2	3	3	6	5	4	4	5	8	9	9	5	6	7	8	6	7	5	3	1	1	2					
MNS	14	20	9	7	6	4	4	4	2	1	0	0	0	1	0	1	2	1	2	1	2	1	3	5	10	13			

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	PS	NS	AS			
1	5	5	7	0	0	0	0	0	3	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	35	0	35		
2	-5	-5	-5	7	3	-8	-10	-2	-2	0	0	0	0	0	0	0	0	0	0	0	2	-15	-10	-2	-3	12	74	86		
3	0	0	5	-11	-2	-3	-5	0	3	8	10	10	10	2	5	3	0	-2	0	0	2	0	-5	-2	1	58	32	90		
4	-3	0	0	2	3	2	-5	-2	0	-2	0	3	3	7	5	2	5	5	10	2	5	0	-17	1	59	34	93			
5	-35	-20	-15	-13	-15	-13	17	10	13	25	40	10	42	105	118	135	103	108	-40	-8	-5	-10	-37	22	739	211	950			
6	-43	-55	-125	-103	-32	-13	-5	-10	-7	-17	-15	-10	-15	-3	10	-2	10	13	8	0	-8	-5	-2	-5	-18	43	473	516		
7	-5	-20	-22	-33	-17	-13	-5	0	3	3	7	-5	2	0	3	2	3	-2	-5	-6	-5	-10	-57	-7	28	205	233			
8	-35	-70	-15	-23	-17	-8	-5	-5	0	-2	2	0	5	7	10	8	-3	8	5	7	12	15	0	-7	-5	79	190	269		
9	-18	-20	-15	-13	-10	-8	-5	0	5	-2	7	10	10	7	5	-2	0	3	13	10	5	0	0	-7	-1	73	100	173		
10	-5	0	5	2	-2	-3	-5	0	-5	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	7	25	32		
11	0	0	0	0	0	0	0	0	0	-2	-5	0	0	0	0	0	0	0	0	0	0	0	-10	-1	0	17	17	17		
12	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	0	0	0	10	20	17	7	0	-27	1	57	32	89		
13	-35	-20	-10	-8	-7	-8	-7	-2	5	13	22	37	35	38	25	8	43	0	-13	-15	-40	-77	-1	226	258	484	258	484		
14	-25	-20	-70	-6	-2	-3	15	13	13	10	12	10	12	5	8	35	25	23	20	2	-15	-10	-17	2	218	168	386	218	168	
15	0	5	5	4	5	7	15	10	8	3	5	3	7	-8	-5	-5	0	3	-22	-5	2	5	0	-2	2	87	47	134		
16	0	-10	-5	-3	3	2	0	-10	-7	-12	-8	-5	0	-3	-3	-7	-5	-5	-12	3	2	-10	-3	-2	-4	10	110	120		
17	0	-10	-5	-3	3	2	0	-10	-7	-12	-8	-5	0	-3	-3	-7	-5	-5	-12	3	2	-10	-3	-2	-4	48	143	191		
18	-15	-10	-5	-3	3	2	25	40	25	13	5	2	0	12	20	48	65	58	-50	-8	-85	-60	-57	4	386	293	679	386	293	
19	-75	-165	-95	-1	23	37	15	40	38	13	-5	-5	-25	-3	0	8	10	10	8	15	-38	-40	-15	-12	-11	217	479	696	217	479
20	-30	0	5	-3	8	22	20	18	13	5	5	15	22	5	8	20	40	43	-35	14	0	-60	-72	3	283	200	483	283	200	
21	-30	-27	-15	4	-2	7	5	15	13	0	-10	10	-10	-3	40	58	40	28	13	-30	-38	-15	-25	-27	0	233	232	465	233	232
22	-25	0	0	0	0	0	0	10	20	23	15	10	0	0	0	0	0	0	0	0	0	0	0	0	2	78	25	103	78	25
23	0	5	10	4	5	4	5	10	-2	8	5	5	5	22	30	5	35	33	18	-5	-8	-8	0	-17	7	209	40	249	209	40
24	-5	10	7	17	8	2	0	10	-2	13	20	10	10	12	20	-5	-5	-2	38	10	-23	-30	-15	-67	1	187	154	341	187	154
25	-52	-35	-5	-13	8	9	15	10	8	8	0	-5	0	-8	-15	-12	-8	-9	-12	-3	-1	-2	-2	-3	-5	58	185	243	58	185
26	-15	-70	-45	-38	-12	-8	-5	10	13	3	0	-3	3	-3	-2	2	-2	-2	-3	-13	-10	-5	-5	-9	31	244	275	31	244	
27	0	0	5	7	8	7	10	5	8	0	-2	0	0	0	0	0	0	0	0	5	-5	-25	-15	0	1	60	47	107	60	47
28	0	0</																												

Tromsø.

Declination. D = 3° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

OCTOBER 1953
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	345	345	345	335	335	330	330	330	345	360	375	380	380	380	365	360	360	360	365	360	345	360	345	350	354	10	
2	350	350	350	340	350	350	340	340	360	380	390	420	420	400	390	360	370	380	390	360	350	350	330	320	360	17	
3	350	345	345	345	350	350	350	350	355	360	365	360	380	390	380	375	375	375	375	365	345	350	335	320	354	17	
4	340	340	330	330	330	330	330	330	360	380	360	340	360	390	380	360	380	380	380	400	340	360	340	230	30	81	
5	30	-60	60	150	380	300	350	330	380	390	410	360	420	450	430	390	380	380	400	330	350	240	170	120	297	132	
6	210	180	120	270	290	360	350	360	360	380	380	420	380	420	410	380	340	320	330	360	310	340	340	330	330	52	
7	30	120	300	350	370	370	380	420	450	390	400	400	400	420	430	390	360	270	330	350	300	180	0	0	302	107	
8	230	270	210	290	420	360	360	350	340	290	330	390	390	390	350	380	340	300	330	300	310	210	320	320	323	52	
9	320	230	180	210	380	360	380	360	360	390	400	420	450	390	390	380	390	340	340	320	320	330	60	-150	310	126	
10	-240	-90	330	320	380	360	390	360	360	340	420	420	420	420	380	390	170	360	390	300	200	240	180	220	290	118	
11	300	300	320	360	330	360	380	380	380	380	360	370	380	380	360	340	340	360	360	270	340	270	150	-620	298	141	
12	-120	-135	90	270	390	330	460	400	390	360	390	420	430	390	375	345	345	360	345	345	360	360	360	317	176	67	
13	360	360	350	360	345	335	335	330	360	375	380	440	400	510	600	390	420	400	390	350	345	335	330	210	375	99	
14	60	140	230	290	320	350	340	330	340	350	340	350	320	420	400	350	390	360	140	210	280	-210	280	270	300	270	139
15	300	300	320	340	330	340	340	340	340	370	370	380	390	380	360	330	300	300	330	420	330	300	330	330	339	41	
16	350	305	330	335	335	345	345	360	375	375	345	330	360	360	345	365	360	345	350	360	345	330	320	315	330	346	13
17	330	320	330	335	345	345	345	345	335	350	360	365	365	375	360	360	300	345	300	360	330	255	150	60	319	67	
18	-120	-30	180	230	320	380	300	300	360	360	390	420	420	510	400	270	300	360	360	400	360	90	210	220	291	131	
19	270	300	330	330	330	330	330	330	330	330	340	360	360	365	360	360	350	350	360	345	330	330	335	300	336	12	
20	285	330	330	330	330	335	345	360	345	365	350	360	360	390	390	375	400	420	375	375	300	300	280	550	326	25	
21	255	315	330	330	320	320	330	335	335	345	360	390	390	380	380	390	365	390	375	345	345	345	345	335	348	20	
22	350	350	345	345	345	345	360	360	375	375	380	375	380	375	380	375	360	345	330	330	330	320	315	330	351	13	
23	330	340	330	330	330	330	330	345	345	360	360	365	375	365	360	360	365	365	365	360	350	330	290	330	346	54	
24	320	330	335	335	335	330	330	330	345	345	360	390	400	390	460	460	520	410	400	365	330	335	290	240	363	61	
25	90	120	240	300	360	360	360	350	360	310	380	380	390	400	400	430	360	360	360	360	390				74		
26	270	270	300	320	330	340	360	330	340	360	370	380	390	380	400	150	330	380	350	350	350	360	270	320	333	77	
27	330	270	300	300	430	390	360	330	320	335	350	360	360	360	360	360	360	350	345	330	330	320	320	330	342	26	
28	270	270	260	300	330	350	360	360	340	360	360	360	360	360	340	350	350	340	330	330	300	320	330	332	19		
29	355	335	330	335	330	330	330	345	350	350	360	360	360	360	350	350	345	345	330	320	330	330	350	330	340	10	
30	340	330	320	320	320	330	340	350	350	360	370	390	390	400	400	400	350	360	340	330	330	320	320	330	349	15	
31	330	330	330	330	330	335	335	335	335	350	375	390	420	400	400	410	380	360	360	335	330	350	320	330	353	17	
M	232	241	284	311	345	344	350	348	358	357	369	381	391	395	389	365	354	350	351	343	312	300	273	228	332	63	
QM	335	335	330	330	330	335	340	340	350	355	370	370	370	375	370	360	355	355	350	350	340	340	335	335	350		

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	330	330	335	335	335	360	345	345	360	360	390	420	420	390	395	360	360	360	345	240	315	255	300	315	346	22	
2	340	350	340	330	340	340	360	360	340	330	370	380	350	380	380	380	290	290	210	210	270	340	340	355	48		
3	360	350	350	340	340	340	360	360	360	380	400	390	390	390	380	380	360	-50	360	320	120	180	240	321	93		
4	290	320	260	320	320	320	320	320	320	330	320	330	340	400	300	360	390	450	380	240	-90	230	300	290	306	109	
5	330	340	350	340	340	360	350	350	360	380	360	380	360	350	340	320	300	270	250	20	150	290	140	308	106		
6	210	240	260	240	300	360	390	340	350	320	360	360	400	420	150	380	460	300	150	400	360	460	0	270	122		
7	-60	290	300	360	360	390	400	340	320	350	270	360	340	360	320	50	340	390	360	-60	60	150	260	276	110		
8	170	140	270	300	300	420	450	390	330	420	330	360	360	240	360	270	360	300	240	240	150	-20	170	289	83		
9	260	330	320	300	380	380	400	300	360	340	360	360	330	340	340	270	360	300	270	320	300	340	300	312	52		
10	330	330	330	300	390	360	390	360	360	360	340	300	400	400	380	360	360	350	260	340	300	200	270	339	51		
11	120	210	260	300	330	390	380	390	390	350	360	400	420	360	360	360	360	360	300	350	270	120	160	280	310	68	
12	375	300	330	330	330	330	330	330	345	345	345	345	350	330	330	330	345	345	300	270	290	240	245	60	310	44	
13	195	330	315	315	330	330	330	335	335	320	320	330	335	335	335	335	225	300	330	330	330	330	330	330	319	26	
14	335	330	340	335	335	345	345	345	345	360	350	340	335	345	345	350	315	335	335	300	260	330	305	333	20		
15	330	345	315	330	335	345	345	345	345	345	345	345	345	345	350	350	360	315	360	345	330	330	330	330	341	15	
16	345	330	330	330	335	360	375	375	375	390	375	390	390	375	360	330	330	330	330	300	315	300	270	347	15		
17	300	315	300	315	330	330	330	335	360	345	345	345	345	345	345	360	360	390	315	300	290	270	300	329	20		
18	300	255	320	315	300	315	330	330	345	360	360	360	360	360	360	350	390	360	330	360	330	330	330	335	38		
19	330	330	330	335	315	345	345	335	360	365	360	345	345	350	350	350	375	330	315	360	400	150	0	323	128		
20	0	180	270	330	350	335	330	330	335	345	345	345	345	345	345	345	345	345	330	300	0	300	240	294	70		
21	90	0	210	290	340	340	330	330	340	340	340	390	380	390	380	390	125	360	360	340	330	330	270	180	120	289	1

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

OCTOBER 1933

HOURLY MEAN VALUES

Table for October 1933 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.

NOVEMBER

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

DECEMBER

Table for December 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.

Horizontal Intensity. H = 11400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JANUARY 1953

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	90	80	60	120	120	113	110	105	105	108	110	130	130	130	180	210	190	230	30	-150	-5	140	95	104	710	
2	95	-130	-50	100	110	110	105	102	90	105	115	105	110	110	108	105	105	112	100	120	75	0	68	70	81	485	
3	60	30	70	90	100	103	110	103	100	100	102	103	108	107	105	100	100	102	108	120	105	100	70	70	94	145	
4	100	90	107	105	102	100	99	97	95	93	95	98	100	105	103	100	100	100	100	98	97	95	95	90	98	70	
5	93	96	98	98	100	100	100	99	98	97	98	101	103	105	102	101	100	100	100	100	100	100	100	100	100	25	
6	92	75	73	70	98	80	100	120	120	115	110	150	170	310	260	155	122	130	100	30	35	70	-15	-180	100	685	
7	-80	55	90	70	110	122	103	100	97	95	97	98	98	95	97	108	150	140	180	210	145	105	82	48	101	385	
8	68	80	30	90	100	110	108	100	97	95	98	98	95	100	102	100	100	102	110	98	97	82	70	48	93	120	
9	93	95	98	100	103	105	103	101	100	99	98	98	95	100	102	110	145	118	120	112	100	75	20	80	99	195	
10	93	94	95	97	99	100	101	100	98	97	93	93	95	95	98	100	100	100	108	98	95	95	95	95	97	30	
11	90	90	95	100	103	107	105	100	98	95	92	95	100	98	97	98	98	100	100	100	100	88	88	80	97	25	
12	83	97	98	100	101	132	102	101	100	99	97	97	99	100	101	100	100	102	102	102	100	88	80	97	70	100	
13	80	100	103	105	107	108	105	102	102	102	102	102	102	102	102	102	102	110	130	152	128	105	107	103	103	160	
14	98	92	87	102	103	103	102	102	101	100	100	100	100	102	102	103	105	107	112	125	120	-10	30	-10	60	59	285
15	120	130	140	130	87	30	30	70	110	130	130	110	100	95	130	115	108	110	108	90	43	-220	-130	92	77	685	
16	82	70	32	72	105	100	100	105	98	82	95	110	92	108	112	85	100	97	93	92	92	92	91	91	92	125	
17	90	92	93	97	98	99	100	100	95	103	95	100	97	93	99	99	100	100	100	97	95	90	77	96	80	80	
18	87	90	92	92	98	95	97	97	92	88	90	93	97	95	93	92	96	98	100	105	82	85	50	82	91	105	
19	95	90	92	92	92	100	108	102	105	108	100	118	122	250	220	190	175	100	-30	75	65	-20	-115	97	460	380	
20	-90	30	120	80	-120	-40	75	85	100	85	103	100	100	105	103	102	115	120	102	92	88	80	68	28	68	380	
21	80	99	99	100	100	100	100	98	93	90	92	95	98	100	98	98	99	100	101	100	100	95	80	95	120	80	
22	92	93	93	90	80	100	95	103	90	102	102	95	103	100	120	195	220	40	-110	-5	-25	-270	-90	10	59	885	
23	-140	-100	140	130	105	87	102	125	125	92	107	100	105	140	155	128	155	185	130	-60	60	70	-320	-280	56	700	
24	-120	-260	-60	140	122	112	108	103	100	108	110	110	102	125	105	110	150	192	140	155	152	130	50	30	84	600	
25	-10	-10	58	100	120	115	107	95	88	108	93	102	110	125	190	230	240	150	180	150	0	50	-10	-130	94	580	
26	30	20	-180	-70	70	90	117	108	102	100	110	110	125	120	200	190	200	210	70	-10	-190	-30	-40	-50	58	565	
27	-90	-80	50	88	60	120	120	120	102	100	100	120	110	125	130	125	190	190	170	-20	-60	-200	-100	90	65	670	
28	-30	-80	-180	10	100	120	100	105	95	100	140	125	145	110	115	160	130	160	60	120	-120	-80	-120	-210	45	740	
29	-90	0	80	120	110	120	120	115	100	98	83	98	108	130	170	190	170	170	80	-10	-180	-70	40	67	76	515	
30	80	-20	-150	10	50	103	107	103	92	87	100	90	105	110	122	130	128	100	100	97	70	-130	-15	40	63	465	
31	0	-30	75	105	100	102	102	100	102	100	88	93	102	120	118	120	140	118	110	98	92	-110	-40	50	77	350	
M	39	35	56	86	91	98	101	102	100	99	101	103	107	116	126	128	134	127	108	82	45	22	19	25	86	368	
GM	93	95	97	100	102	102	101	100	98	97	97	98	99	100	100	100	100	102	102	100	98	97	95	94	99		

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	83	80	93	93	93	92	92	92	92	88	85	90	93	96	98	98	98	98	98	97	95	80	28	20	86	110
2	35	45	92	73	70	95	110	100	83	88	90	112	103	112	120	140	190	195	140	155	110	20	40	85	100	325
3	92	90	92	98	98	98	98	93	90	90	90	92	95	97	100	95	98	98	100	100	100	92	20	-70	85	295
4	22	93	98	97	95	95	95	93	87	80	85	92	95	95	100	103	113	132	110	40	90	50	52	50	86	200
5	45	60	-28	20	95	103	102	97	95	93	92	93	95	98	100	100	102	100	98	95	95	93	85	93	85	165
6	92	80	82	92	98	100	98	93	90	90	90	92	93	95	95	95	97	97	98	97	95	95	97	98	94	45
7	100	100	100	102	97	100	98	98	100	98	93	112	100	90	95	110	120	158	110	102	110	108	98	95	103	80
8	97	97	97	98	98	98	97	93	90	87	86	92	102	100	100	98	98	105	100	28	20	22	98	88	220	
9	72	70	50	40	62	72	93	98	98	95	95	98	102	97	110	130	120	112	128	175	140	120	87	70	97	200
10	40	70	70	83	100	100	98	95	93	90	92	95	97	97	98	100	100	100	100	102	105	118	100	93	93	195
11	90	93	93	95	95	93	95	95	98	98	97	97	97	97	98	98	105	113	132	120	100	98	90	97	99	65
12	95	98	98	100	100	98	97	93	95	98	90	95	97	95	97	92	92	92	90	90	92	93	95	95	95	7
13	95	95	95	95	95	93	92	92	92	95	98	100	103	102	100	100	105	100	95	92	90	90	90	90	96	25
14	90	92	95	92	97	93	93	90	85	92	92	92	92	95	100	102	100	50	-160	-270	45	92	65	93	63	540
15	68	87	72	105	102	90	110	102	93	87	85	103	93	110	98	128	135	210	118	92	72	-90	20	62	90	440
16	83	88	93	97	97	97	97	93	88	88	90	93	95	98	95	95	96	95	93	93	93	93	93	93	93	25
17	92	92	92	93	95	96	97	94	90	87	87	89	91	92	93	96	98	99	100	99	99	97	95	97	94	15
18	98	99	100	100	100	99	98	96	93	90	90	91	93	98	100	100	110	120	140	130	-10	10	-25	-5	84	310
19	30	-5	50	97	108	103	107	100	92	95	115	100	150	330	350	260	240	160	-170	-370	-80	-30	-65	-600	49	1225
20	-520	-380	-110	80	110	113	100	93	98	90	100	120	170	135	130	230	200	140	130	120	100	60	10	-320	83	1035
21	-70	-35	-210	-300	-240	30	140	105	90	105	110	160	230	260	250	190	140	220	130	80	130	-80	-620	-230	29	1000
22	-470	-280	-260	-50	-10	90	70	105	160	150	130	120	130	140	160	130	110	120	50	-10	50	70	-170	-380	6	1050
23	-190	60	-120	50	75	100	90	75	75	100	105	110	105	190	260	150	0	40	160	-350	-20	-270	-120	-300	16	980
24	-120	-20	-10	60	110																					

Tromsø.

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

Gr. M. T.

JANUARY 1933

HOURLY MEAN VALUES

Table for January 1933 showing hourly mean values for horizontal intensity, storminess, and unit gamma. Columns include Day (1-31), M, PS, NS, AS, CH, and summary rows for M, MPS, and MNS.

FEBRUARY

Table for February 1933 showing hourly mean values for horizontal intensity, storminess, and unit gamma. Columns include Day (1-28), M, PS, NS, AS, CH, and summary rows for M, MPS, and MNS.

MARCH

Table for March 1933 showing hourly mean values for horizontal intensity, storminess, and unit gamma. Columns include Day (1-31), M, PS, NS, AS, CH, and summary rows for M, MPS, and MNS.

Tromsø.

Horizontal Intensity. H = 11400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1955

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	50	60	-35	-10	50	80	90	80	88	100	65	82	92	120	138	128	155	125	100	-10	50	-30	-150	69	360	
2	-10	80	80	75	85	92	80	90	77	70	82	102	100	105	110	110	110	120	115	10	-50	-110	-80	54	360		
3	-85	-30	75	70	60	75	100	95	78	88	83	230	230	100	102	133	143	175	180	130	90	35	-30	92	500		
4	-90	-200	-200	10	95	100	98	90	90	90	73	80	78	80	85	93	127	160	200	145	115	115	100	75	67	800	
5	30	18	10	50	82	98	95	88	78	75	72	77	90	130	142	170	180	175	145	110	-5	-10	-40	-140	72	450	
6	-200	-140	30	110	105	92	80	85	60	82	82	105	80	90	110	110	112	122	100	-60	-180	-80	40	44	360		
7	40	68	70	82	80	97	90	83	75	75	80	65	110	100	220	290	210	160	165	40	-280	-80	72	62	82	850	
8	78	78	58	90	95	100	88	70	67	65	82	67	82	115	130	190	180	170	60	80	80	15	20	-105	81	480	
9	-90	10	100	120	110	108	100	75	70	78	120	110	100	160	145	140	115	100	100	100	88	80	40	37	88	360	
10	70	96	97	95	95									150	160	170	110	110	110	75	95	95	92	81	160		
11	90	90	92	93	93	90	85	78	62	62	60	78	87	100	93	95	97	100	105	112	108	100	60	77	88	95	
12	88	90	90	92	90	90	85	78	70	62	65	72	77	80	84	90	93	95	97	95	95	95	93	90	86	45	
13	90	92	93	93	92	90	87	80	75	60	67	70	75	85	90	92	93	102	105	100	98	97	95	95	88	60	
14	92	93	93	93	91	90	85	78	72	70	75	80	100	145	120	150	195	200	180	150	90	65	-30	-20	93	340	
15	42	50	62	65	55	42	60	82	75	78	90	118	110	100	132	120	140	200	210	120	-130	-250	-180	-70	54	870	
16	30	30	10	60	50	85	85	88	97	100	60	82	108	145	190	160	160	175	165	50	10	70	-10	-500	63	830	
17	-340	-60	-110	0	0	45	100	80	115	110	135	180	200	230	170	225	160	190	120	60	-110	-150	-240	-220	37	880	
18	-250	-330	-110	60	30	60	70	40	50	68	75	92	130	120	170	160	130	115	110	30	-90	-200	-350	-200	-3	530	
19	-300	-260	-140	-10	92	92	70	58	75	70	80	140	150	150	180	225	185	190	50	-170	-240	10	-420	-330	-3	1120	
20	50	100	103	110	88	-10	30	110	80	110	140	160	135	180	250	250	240	180	130	20	-220	-80	10	-20	89	850	
21	-40	-35	60	80	85	90	80	75	78	95	140	150	110	90	118	110	125	200	110	-40	-15	-12	-550	-270	34	1070	
22	-190	-90	110	105	70	80	50	110	90	140	110	150	160	200	205	160	180	140	120	90	-440	-890	-110	-240	39	930	
23	-80	80	75	70	75	70	60	90	80	75	78	100	120	270	240	185	145	150	132	60	-190	-220	-190	-250	51	700	
24	-140	0	72	100	90	97	105	90	82	77	80	90	87	130	160	230	170	172	140	83	45	10	-220	-290	61	710	
25	-190	50	110	110	98	98	95	80	70	82	100	88	110	133	150	162	220	165	142	100	35	40	-0	-15	85	630	
26	-160	-120	70	115	110	100	92	73	65	63	70	95	150	260	120	110	160	205	165	10	-100	40	50	88	76	530	
27	92	97	90	85	95	100	90	85	80	75	87	75	85	100	115	130	160	155	132	105	60	-170	-110	-220	66	490	
28	-150	-70	5	105	120	108	93	87	85	70	80	90	83	90	87	100	110	122	160	130	100	12	-12	-90	63	415	
29	-30	80	92	92	100	97	90	85	80	85	88	93	102	105	120	105	108	115	127	110	98	70	30	5	85	270	
30	32	100	100	100	100	93	90	85	80	77	72	78	85	92	110	128	160	240	160	135	-40	-270	-40	-100	69	775	
M	-52	0	45	76	61	83	84	83	77	81	87	101	110	130	141	151	148	155	133	78	-24	-30	-68	-89	66	558	
QM	92	92	92	93	92	90	87	85	78	75	72	75	80	85	90	93	95	97	97	97	96	95	93	92	89		

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	80	72	110	102	98	92	85	90	102	120	110	160	350	420	160	30	50	20	30	-40	-10	50	-90	-20	90	740
2	-30	-230	5	70	110	95	90	80	82	75	100	80	90	100	125	148	155	120	115	80	30	-220	-160	50	660	
3	-170	-200	-80	100	85	80	72	80	85	80	90	125	120	110	125	112	142	190	80	90	85	93	30	-100	59	490
4	0	80	80	10	35	60	63	95	75	82	80	73	83	90	155	240	270	160	80	-60	70	80	75	80	87	490
5	50	45	83	103	80	58	68	80	77	77	80	65	130	125	180	160	135	175	180	90	-80	-70	30	-120	75	420
6	-90	-200	-570	-40	30	90	90	80	90	85	90	160	162	200	190	140	135	142	170	110	10	27	28	-290	35	970
7	-600	-250	112	117	112	87	72	70	58	65	100	110	120	127	130	120	90	95	98	100	90	75	78	80	52	910
8	83	80	90	92	93	90	85	78	70	72	73	78	90	115	130	135	150	160	122	110	98	93	87	93	99	220
9	95	97	95	93	92	88	80	70	60	63	70	72	83	92	85	100	108	110	107	102	100	100	100	100	90	55
10	95	85	88	98	93	93	87	75	63	65	67	80	90	90	90	92	95	100	110	110	105	103	100	97	90	65
11	92	70	52	82	80	98	93	90	90	77	75	82	102	130	130	150	150	162	150	107	97	98	98	98	101	175
12	99	87	100	80	87	88	87	87	87	87	65	75	85	92	98	100	105	110	117	110	107	80	30	70	89	135
13	93	92	93	97	78	33	80	90	78	88	90	110	100	80	85	110	145	173	152	127	110	-5	48	-10	89	370
14	-235	15	115	110	103	93	87	77	70	68	90	100	110	105	160	820	310	200	120	90	-140	-230	-80	-110	60	800
15	35	90	100	-40	-160	20	100	110	112	112	130	85	75	85	90	102	128	160	160	118	100	-70	-430	-220	41	680
16	-120	70	110	110	100	92	88	82	80	77	75	85	95	130	90	102	122	150	140	45	60	-70	-70	-110	64	390
17	-10	-10	62	92	100	90	85	73	70	82	97	93	80	90	100	148	160	190	135	120	70	40	-120	-140	71	500
18	-300	-140	-80	30	-170	-50	40	90	120	145	245	160	140	90	125	125	130	110	120	80	100	2	-40	-40	43	700
19	30	80	75	90	90	80	87	82	80	70	90	103	130	170	160	120	135	170	25	-65	-80	-10	95	97	80	490
20	85	50	52	70	73	70	82	83	90	82	70	77	93	110	95	115	140	155	130	110	90	-70	-15	20	83	250
21	88	100	108	98	82	80	60	70	67	57	70	82	90	95	95	100	122	133	153	103	108	100	97	90	94	130
22	60	30	82	102	93	85	80	87	70	68	62	90	98	135	145	170	185	165	130	123	105	70	-40	10	91	330
23	80	110	102	97	83	75	70	65	63	67	80	85	82	90	105	122	140	130	128	115	92	-70	-40	40	80	340
24	80	93	100	100	90	93	85	78	68	70	80	85	95	95	123	123	123	120	120	113	108	88	85	97	97	75
25	80	20	60	103	100	95	85	78	68	65	67	90	88	100	100	113	110	115	118	120	108	82	87	100	90	135

Tromsö.

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

Gr. M. T.

Table for APRIL 1933 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-30), M, PS, NS, AS, CH, and summary rows for MFS and MNS.

Table for MAY showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), M, PS, NS, AS, CH, and summary rows for MFS and MNS.

Table for JUNE showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-30), M, PS, NS, AS, CH, and summary rows for MFS and MNS.

Tromsø. Horizontal Intensity. H = 11400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1955

HOURLY MEAN VALUES

Table for July 1955 showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and monthly totals (M, R).

AUGUST

Table for August showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and monthly totals (M, R).

SEPTEMBER

Table for September showing hourly mean values for horizontal intensity. Columns include Day (1-30), hours (1-24), and monthly totals (M, R).

Tromsø.

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

Gr. M. T.

JULY 1933

HOURLY MEAN VALUES

Table for July 1933 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).

AUGUST

Table for August 1933 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).

SEPTEMBER

Table for September 1933 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).

Tromsø. Horizontal Intensity. H = 11400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1933
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	78	75	75	75	72	72	67	63	50	48	50	53	60	68	75	77	80	82	85	85	83	95	83	85	72	45	
2	83	83	80	80	85	88	78	68	60	57	57	65	73	87	87	80	87	92	108	92	50	-23	18	65	71	160	
3	83	82	82	83	83	83	80	75	68	60	58	60	65	70	78	83	85	88	90	90	93	90	73	0	75	155	
4	65	73	73	78	78	80	80	80	80	65	57	55	62	63	72	100	140	200	80	90	90	55	20	-50	-180	64	570
5	-210	-330	-80	-60	5	60	80	70	80	60	105	220	110	100	92	75	90	98	70	70	10	-420	10	-70	10	930	
6	-120	-100	-90	-70	50	90	88	80	70	110	70	110	140	95	85	90	90	103	100	80	80	75	72	58	365		
7	68	-150	-160	30	60	57	60	100	60	78	130	180	90	90	110	120	120	-130	100	55	-130	-230	-390	-200	5	730	
8	-140	0	0	45	110	75	75	70	75	80	115	70	75	100	90	102	110	80	70	35	-80	-180	-40	60	41	460	
9	80	0	-30	-40	45	80	80	80	80	70	68	90	110	78	85	110	110	95	-20	-210	-10	70	-480	-330	8	890	
10	-310	-210	-50	60	95	85	70	55	60	110	140	70	100	100	90	140	140	120	20	-250	-200	-190	-110	-70	4	800	
11	0	20	0	50	75	92	80	95	70	75	85	85	80	100	80	90	85	87	90	25	20	-20	-230	-660	20	930	
12	-340	-320	0	85	70	-10	60	80	70	65	80	110	160	85	100	90	83	80	77	75	72	78	75	80	42	615	
13	83	80	82	80	80	78	73	70	78	68	100	160	260	400	210	95	83	100	78	78	78	35	-300	93	1050		
14	-240	-130	-70	50	82	82	80	80	78	80	100	120	105	180	88	75	90	100	20	-110	-400	15	-30	-20	18	1070	
15	22	60	65	75	80	85	80	78	75	72	80	75	72	80	82	125	180	120	80	-30	-50	40	60	50	73	390	
16	45	65	78	80	78	80	75	80	80	80	70	78	88	90	82	88	105	95	90	78	63	67	60	70	75	85	
17	40	72	78	80	80	90	77	73	70	65	69	72	77	70	80	82	92	100	118	103	20	-105	-430	-320	31	700	
18	-260	-90	32	60	80	50	70	30	130	120	90	135	200	220	220	170	90	72	75	80	-290	-140	-20	-20	46	700	
19	-20	30	70	78	80	77	72	67	65	65	68	70	70	75	78	80	88	80	80	75	75	75	15	-70	60	210	
20	40	77	78	79	80	80	75	72	70	62	70	68	70	77	90	108	127	120	150	142	120	60	65	50	85	170	
21	28	60	80	80	80	80	80	77	72	70	68	78	70	75	80	83	85	105	120	92	90	82	80	80	79	140	
22	80	80	80	78	75	77	80	80	70	63	75	73	68	80	80	80	80	80	80	80	80	78	75	72	48	76	95
23	50	73	80	80	83	82	80	77	72	70	72	75	80	81	82	83	85	88	88	88	88	-50	10	30	68	320	
24	72	78	80	80	79	77	75	75	73	70	71	80	80	83	150	225	215	132	90	90	80	98	40	-70	88	490	
25	-110	-80	30	40	90	85	90	90	70	80	90	75	78	82	88	180	185	110	100								
26	25	52	78	85	80	52	70	85	70	72	80	83	75	93	150	85	80	82	82	50	-120	32	80	66	510		
27	78	30	-60	10	40	53	65	75	80	80	73	72	78	78	80	80	80	77	75	77	75	60	60	60	62	195	
28	5	30	55	75	80	82	78	65	65	72	70	70	75	73	78	78	78	78	75	70	60	72	70	68	135		
29	73	72	75	72	78	82	80	75	70	67	63	63	65	70	72	75	75	77	77	77	75	73	65	62	72	30	
30	62	63	73	75	78	80	80	80	77	75	73	72	70	77	90	105	150	100	100	98	87	75	73	75	83	145	
31	76	76	77	78	80	80	79	75	72	72	72	73	85	85	85	85	85	87	87	87	87	82	80	80	80	80	35
M	-18	-3	31	56	75	75	76	74	71	73	78	87	91	95	104	108	108	86	83	50	15	-3	-21	-40	57	444	
QM	80	80	80	80	80	80	78	75	72	70	68	70	72	75	78	80	82	83	82	80	78	77	78	80	77		

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	80	80	80	81	81	80	75	72	68	73	63	75	92	125	75	75	78	83	92	90	-20	40	60	62	73	260	
2	70	62	65	82	85	82	80	77	72	72	70	78	72	82	77	85	120	130	90	-10	0	70	80	80	74	230	
3	77	73	70	68	80	80	80	75	72	68	68	73	80	72	80	130	115	105	120	50	-50	-150	-50	0	58	500	
4	42	87	78	83	98	90	88	85	78	72	72	85	88	110	190	180	120	180	140	-30	-60	-100	-150	-20	66	535	
5	73	73	75	80	80	77	75	72	70	70	68	78	80	80	80	73	82	92	70	0	-120	-80	-190	-80	41	625	
6	35	-15	-70	10	100	105	62	72	83	63	78	80	100	150	170	200	190	-10	15	90	-60	-270	-310	-250	27	740	
7	-280	-210	10	90	90	80	70	70	80	110	105	110	90	93	135	170	100	120	-20	-250	-480	-120	-50	20	6	920	
8	-150	-350	30	70	70	40	50	120	140	180	130	70	70	170	190	120	190	130	110	-50	-350	-250	-240	-75	15	940	
9	-10	82	78	65	70	80	80	115	80	70	87	92	85	100	150	92	100	88	70	-110	-10	75	75	71	675		
10	73	72	70	50	28	60	80	80	73	73	70	80	82	105	180	195	95	70	85	80	60	10	35	-130	-160	60	410
11	-110	-90	-40	20	105	90	80	80	75	100	90	110	160	92	140	130	160	155	80	120	-50	-220	-130	-60	43	670	
12	-85	60	80	80	82	85	80	77	70	73	72	70	80	83	73	85	92	90	82	70	60	80	-20	70	60	360	
13	0	90	82	80	80	78	78	75	78	70	60	68	80	80	80	80	80	95	77	77	78	78	78	77	76	185	
14	77	78	80	80	80	80	77	75	75	70	70	70	73	76	80	80	80	80	80	80	42	57	45	71	205		
15	60	68	70	80	85	85	80	78	75	73	72	70	72	78	78	82	98	110	82	78	72	70	73	78	78	170	
16	78	77	77	77	77	77	77	68	68	70	77	82	90	90	80	80	80	80	85	100	98	73	60	8	76	130	
17	22	45	82	80	80	80	80	78	77	75	77	80	80	80	80	85	112	130	130	120	92	68	65	82	150		
18	2	50	80	83	78	72	87	80	78	78	75	77	80	83	78	80	110	140	137	120	85	80	70	70	83	225	
19	67	60	62	60	70	80	80	78	75	73	70	75	75	75	75	77	90	125	122	103	70	-140	-190	-250	45	520	
20	-210	20	75	80	80	78	78	77	77	75	70	72	72	73	75	77	78	80	80	80	60	-90	45	30	51	280	
21	-100	-130	15	80	82	80	78	77	75	75	85	88	80	90	190	190	100	82	92	100	95	10	-20	-200	55	650	
22	-80	25	85	90	82	85	78	78	78	75	75	82	85	82	88	90	110	130	120	60	10	60	60	20	70	350	
23	-20	35	65	50	-10	70	100	88	80	80	80	80	80	82	100	105	140	120	135	40	-70	32	70	67	335		
24	73	70	63	75	-78	85	82	78	77	73	72	77	78	80	80	80	80	80	80	80	88	80	75	73	70	77	40
25	60	53	75	80	80	78	77	77	75	73	73	75	80	80	80	80	85	92	95	80	100	73	60	40	76	130	
26	63	75	77	77	77	77	77	75	75	72	75	78	78	78	77	77	80	82	85	90	90	75	70	67	77	70	
27	65																										

Tromsø.

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

Gr. M. T.

OCTOBER 1933

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	CH				
1	3	0	-2	0	0	0	0	-10	0	0	0	0	0	0	0	0	0	0	0	0	12	0	3	0	18	12	30	0	0			
2	3	3	C	0	5	8	0	-7	-12	-13	-11	-5	1	12	9	0	5	9	26	12	-28	-100	-60	-15	-7	93	251	344	0	0		
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	13	-5	-80	-2	31	85	116	0	0	
4	-15	-7	-7	-2	-2	0	2	5	-7	-13	-13	-8	-9	3	22	60	118	-3	8	10	-23	-57	-128	-260	-14	225	557	782	1	1		
5	-290	-410	-160	-140	-75	-20	2	-5	8	-10	37	150	38	25	14	-5	-8	15	-12	-10	-68	-497	-68	-160	-68	289	1928	2217	2	2		
6	-200	-180	-170	-150	-30	10	10	5	-2	40	2	40	68	20	7	10	8	20	18	20	2	3	-3	-8	-19	283	743	1026	1	1		
7	-12	-230	-240	-50	-20	-23	-18	25	-12	8	62	110	18	15	32	40	38	-213	18	-25	-208	-307	-458	-280	-72	366	2096	2462	2	2		
8	-220	-80	-90	-35	30	-5	-3	-5	3	10	47	0	3	25	12	22	28	-3	-12	-47	-158	-257	-118	-20	-36	180	1043	1223	2	2		
9	0	-80	-110	-120	-35	0	2	5	-22	0	0	20	38	3	7	30	28	12	-102	-290	-88	-7	-558	-410	-70	145	1822	1967	2	2		
10	-390	-290	-110	-20	15	5	-8	-20	-12	40	72	0	28	25	12	60	68	37	-62	-330	-278	-267	-188	-150	-73	362	2125	2487	2	2		
11	-80	-60	-80	-30	-5	12	2	20	-2	5	17	15	8	25	2	10	3	4	8	-55	-58	-97	-308	-740	-68	131	1515	1646	2	2		
12	-420	-400	-80	5	-10	-90	-18	5	-2	-5	12	40	88	10	22	10	1	-3	-5	-5	-6	1	-3	0	-36	194	1047	1241	2	2		
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	15	795	425	1220	2	2	
14	-320	-210	-150	-30	2	2	2	5	6	10	32	50	33	105	10	-5	8	17	-62	-190	-478	-62	-108	-100	-60	282	1715	1997	2	2		
15	-58	-20	-15	-5	0	5	2	3	3	5	4	10	21	7	72	45	98	37	-2	-110	-128	-37	-18	-30	-5	312	423	735	1	1		
16	-35	-15	-2	0	-2	0	-3	-15	-12	-10	2	8	15	15	4	8	23	12	8	-2	-15	-10	-18	-10	-2	96	149	245	0	0		
17	-40	-8	0	0	0	0	0	0	0	0	0	0	0	5	-5	2	2	10	17	36	23	-58	-182	-508	-400	-46	95	1201	1296	2	2	
18	-340	-170	-48	-20	0	-30	-8	-45	58	50	22	65	128	145	142	90	8	-11	-7	0	-368	-217	-98	-100	-31	708	1462	2170	2	2		
19	-100	-50	-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	8	370	378	0	0	
20	-35	0	0	0	0	0	0	-3	-2	-8	2	0	0	2	12	28	45	37	68	62	42	-17	-15	-30	8	288	108	406	1	1		
21	-52	-20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	88	72	160	0	0	
22	0	0	0	0	-5	-3	2	5	-2	-7	7	3	-4	5	0	0	0	0	0	0	0	0	0	0	-1	22	48	70	0	0		
23	-30	-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-10	34	280	314	0	0		
24	-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	466	194	650	1	1		
25	-190	-160	-50	-40	10	5	12	15	-2	10	22	5	6	7	10	100	103	27	18	10	2	21	-38	-150	11	466	350	442	792	1	1	
26	-55	-28	-2	5	0	26	-5	13	0	4	10	11	0	15	70	3	-3	0	2	-28	-197	-46	0	0	-9	159	364	523	1	1		
27	-2	-50	-140	-70	-40	-27	-13	0	8	10	5	2	3	0	0	0	0	0	0	0	0	0	-18	-20	-15	28	380	408	1	1		
28	-75	-50	-25	0	0	0	-10	-7	2	2	0	0	-2	0	-4	0	0	0	0	0	-5	-15	0	-2	-8	4	195	199	0	0		
29	1	0	0	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	1	24	25	0	0		
30	-11	-10	0	0	0	0	0	0	0	0	0	0	0	0	2	12	25	68	27	18	18	9	0	0	0	7	179	21	200	0	0	
31	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	5	0	5	0	0	
M	-97	-83	-49	-23	-5	-5	0	-1	0	4	11	18	19	20	26	26	26	3	1	-30	-63	-80	-98	-119	-20	202	661	882	1.0	1.0		
MPS	0	0	0	0	2	2	2	3	3	6	11	19	20	21	26	29	26	11	10	6	3	2	0	0	0	0	0	0	0	0	0	0
MNS	97	83	49	23	7	6	2	4	3	2	1	0	0	0	0	0	0	8	9	36	66	82	98	119	0	0	0	0	0	0	0	0

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	CH		
1	0	0	0	0	0	0	0	0	0	3	-9	2	17	47	-5	-5	-2	3	12	10	-98	-38	-18	-15	-4	94	190	284	0	0
2	-7	-15	-13	2	5	4	2	0	-3	-1	-2	5	-3	4	-3	5	40	50	10	-90	-78	-8	2	3	-4	132	223	355	0	0
3	0	-4	-8	-12	0	0	0	0	0	0	0	0	0	-8	0	50	38	25	40	-30	-128	-228	-128	-77	-20	153	623	776	1	1
4	-35	10	0	3	18	12	10	8	3	-1	0	10	13	32	110	100	40	110	60	-110	-158	-178	-228	-97	-11	539	807	1346	2	2
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-7	2	12	-10	-80	-198	-158	-268	-157	-36	19	878	897	1	1	
6	-42	-92	-148	-70	20	27	-16	-5	8	10	6	7	25	72	90	120	110	-90	-65	10	-138	-348	-388	-327	-51	505	1729	2234	2	2
7	-357	-287	-68	10	10	2	-8	-7	5	37	33	37	15	55	90	20	40	-100	-330	-558	-198	-128	-157	-67	369	2098	2467	2	2	
8	-227	-427	-48	-10	-10	-38	-48	43	65	107	58	-3	-5	92	110	40	110	50	30	-130	-428	-358	-518	-152	-68	705	2202	2907	2	2
9	-87	5	0	-15	-10	2	38	5	-3	25	17	17	17	10	20	70	12	20	8	-10	-188	-88	-3	-2	-6	258	406	664	1	1
10	-4	-5	-8	-30	-52	-18	2	-4	-2	-3	8	9	30	102	115	15	-10	5	0	-20	-68	-43	-208	-237	-18	288	712	998	1	1
11	-187	-167	-118	-60	25	12	2	3	0	27	18	37	85	14	60	50	80	75	0	40	-128	-358	-808	-137	-35	528	1363	1891	2	2
12	-162	-17	12	0	2	7	2	0	-5	0	5	-3	5	-2	2	10	43	-10	20	2	-58	-98	-147	-18	95	522	617	1	1	
13	-77	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	-2	25	77	102	0	0
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	8	167	175	0	0
15	-17	-9	-8	0	0	0	0	0	0	0	0	0	0	0	0	0	16	28	0	0	0	0	0	0	0	44	34	78	0	0
16	0	0	0	0	0	0	0	0	-4	0	0	0	0	10	10	0	0	0	5	20	20	-5	-18	-69	-1	65	96	161	0	0
17	-55	-35	0	0	0	0	0	0	0	0	0	0	0	0	0	5	32	50	50	42	14	-10	-12	3	193	112	305	0	0	
18	-75	-27	12	3	-2	-8	7	0	0	0	0	0	0	0	0	0	30	60	57	40	7	2	-6	-7	4	221	127	348	0	0
19	-10	-17	-16	-20	-10	0	0	0	0	0	0	0	0	0	0	0	10	45	42	23	-8	-218	-268	-327	-32	120	894	1014	1	1
20	-287	-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-18	-168	-33	-47	-25	0	610	610	1	1	
21	-177	-207	-63	0	0	0	0	0	0	0	13	16	5	12	110	110	20	2												

Tromsø.

Vertical Intensity. $V = 50100 +$ Tabular Quantities expressed in Gamma.

Gr. M. T.

JANUARY 1953

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	2	-7	60	82	55	72	85	90	92	92	95	100	110	130	120	105	35	40	-90	50	60	70	60	110	69	500	
2	110	185	20	30	85	85	92	85	95	100	110	100	105	108	95	100	105	110	110	95	85	85	30	75	92	255	
3	85	68	58	72	80	90	90	90	92	90	93	92	90	110	97	95	100	100	105	120	115	105	80	75	91	80	
4	90	70	85	90	90	92	92	93	95	93	93	92	92	98	103	103	100	110	83	95	95	93	85	87	92	15	
5	93	93	93	93	92	92	92	92	90	90	92	90	90	92	93	93	92	93	93	93	93	93	92	92	92	92	15
6	85	72	68	55	55	40	20	75	102	105	130	125	135	60	90	155	138	118	80	25	2	60	100	110	84	315	
7	-2	30	55	60	62	75	83	85	90	90	92	90	88	103	103	100	85	5	-5	72	95	103	92	92	73	215	
8	65	68	72	80	90	87	83	92	95	98	95	95	120	125	110	95	92	100	110	95	95	85	58	30	89	90	
9	70	83	85	84	82	83	84	87	87	90	90	92	95	105	108	108	145	154	120	118	108	90	58	60	94	105	
10	85	90	92	87	87	87	90	90	92	93	93	93	95	95	93	95	98	110	108	98	85	75	75	92	92	25	
11	80	75	90	93	93	92	94	95	95	100	100	105	95	100	110	105	100	100	103	103	98	87	72	75	94	45	
12	75	80	87	90	92	92	90	90	90	90	90	92	93	90	90	90	92	92	90	90	89	83	55	88	45		
13	52	53	60	90	90	85	85	85	83	85	85	85	87	92	92	92	92	93	102	100	102	92	90	93	87	80	
14	95	90	82	85	90	90	90	87	87	87	87	87	87	87	87	87	90	98	108	72	60	60	80	95	86	200	
15	82	90	92	110	70	55	-2	90	125	110	83	100	108	108	115	120	110	92	100	80	82	170	12	42	89	290	
16	72	67	60	63	82	67	93	102	112	110	95	93	112	108	92	112	108	97	97	100	92	90	90	87	92	80	
17	87	88	87	83	90	90	90	87	92	110	108	95	98	102	100	100	100	110	110	103	100	95	90	63	95	65	
18	67	77	87	87	85	87	85	88	90	92	100	95	97	97	98	95	92	95	108	90	67	77	70	60	87	85	
19	72	82	89	87	85	70	76	97	97	95	95	92	97	115	20	-112	-40	100	90	89	70	98	170	50	74	470	
20	65	27	63	80	55	-50	25	70	85	95	112	108	100	160	102	108	100	97	95	97	90	83	57	50	76	220	
21	50	83	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	125
22	92	90	90	88	77	75	75	72	80	103	100	93	95	92	100	10	60	25	20	155	60	180	160	95	87	700	
23	190	80	60	120	102	95	80	85	110	92	97	100	102	110	167	118	135	122	80	35	75	55	100	160	103	605	
24	180	160	50	50	87	85	85	82	95	95	100	102	136	112	115	105	100	122	132	108	75	70	82	80	101	350	
25	92	135	70	70	92	95	85	86	96	92	95	98	105	108	155	142	152	135	118	110	95	72	120	90	105	400	
26	10	65	5	-55	5	22	57	72	85	105	95	90	92	100	132	130	108	40	80	100	25	-8	120	50	64	480	
27	-110	-35	15	60	65	60	70	95	100	100	110	100	100	102	90	145	65	80	-20	75	140	330	90	70	79	800	
28	70	65	90	-40	40	72	86	95	100	100	118	125	102	148	85	115	105	65	35	40	185	100	170	100	90	430	
29	87	68	42	80	90	108	100	105	100	97	102	100	110	132	122	95	10	92	80	60	30	40	82	90	84	195	
30	85	72	25	25	65	65	72	87	90	92	100	100	92	100	112	142	125	102	105	100	70	40	70	50	83	235	
31	125	130	72	75	88	87	85	90	100	92	92	95	95	105	120	95	120	118	105	105	95	-2	0	20	88	275	
M	74	77	68	70	78	75	78	88	94	96	96	97	100	103	104	98	96	93	87	85	84	88	84	76	87	251	
GM	92	91	91	91	90	90	90	90	90	90	91	91	91	92	92	93	93	93	93	93	93	93	92	92	92	92	92

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	65	79	87	92	95	95	95	95	92	93	100	100	100	100	100	100	100	105	100	97	87	30	15	88	120	
2	27	50	70	60	47	30	50	60	75	82	102	107	107	110	105	120	103	97	125	85	95	140	65	80	83	120
3	95	90	85	90	90	90	90	90	90	90	92	97	102	112	120	112	105	90	92	100	95	97	25	95	155	
4	-12	67	87	90	90	90	90	90	90	92	95	97	97	110	107	112	123	65	37	65	65	50	77	78	78	
5	60	65	65	35	10	20	65	82	90	87	85	87	90	92	90	90	90	90	90	92	92	90	90	77	100	
6	90	75	75	77	80	80	83	87	90	90	90	95	97	100	97	95	92	90	90	92	90	70	77	82	87	45
7	85	87	87	85	87	73	65	65	67	75	87	95	95	97	92	90	100	122	105	95	87	90	70	90	88	70
8	90	90	90	90	87	87	85	82	90	87	87	92	105	107	100	95	90	90	90	90	100	60	0	15	15	80
9	43	65	62	55	23	27	40	65	77	85	87	87	92	105	110	125	142	113	107	70	87	62	90	87	79	
10	73	70	72	75	73	65	75	77	80	85	87	87	90	92	95	107	105	97	97	97	97	77	70	90	85	100
11	85	87	90	95	95	95	92	90	87	85	87	87	90	90	90	90	90	95	103	105	75	72	75	72	88	60
12	87	90	90	90	87	87	87	87	85	85	90	92	97	95	95	95	90	90	90	85	90	87	80	80	89	25
13	82	87	87	90	90	90	87	87	87	90	90	90	90	90	90	87	87	90	90	90	87	85	80	88	20	88
14	80	67	72	80	77	90	85	85	85	85	90	97	100	115	97	90	92	90	77	220	55	40	65	75	88	315
15	60	77	70	67	72	85	75	80	92	95	100	100	117	115	102	135	130	90	125	108	80	30	5	30	85	85
16	67	77	82	82	85	87	85	90	92	95	100	90	77	77	77	80	80	80	82	70	75	75	77	82	45	45
17	85	85	85	87	87	80	90	90	93	95	93	92	93	90	90	90	90	90	90	90	90	90	90	82	89	14
18	85	80	82	82	82	82	82	82	83	83	85	85	82	82	85	90	92	105	95	60	205	110	95	108	92	275
19	72	70	-5	12	75	79	72	80	85	85	85	103	118	110	-45	90	105	90	130	10	18	70	175	270	81	620
20	180	85	30	-10	60	90	92	87	110	110	92	125	125	105	115	132	115	63	35	120	120	45	70	91	510	
21	-60	32	85	-45	-140	-120	30	72	85	100	105	125	122	80	-110	-145	-100	72	20	-70	45	130	210	40	23	945
22	225	-180	-40	-55	60	32	45	65	105	120	102	122	105	130	115	140	100	80	-140	25	45	50	250	300	75	795
23	20	40	125	50	65	65	77	110	110	105	100	108	100	105	100	-30	-115	-140	30	-70	5	150	-20	0	45	770
24	0	0	5	5	60	90	77	95	110	85	105	118	110	90	60	25	35	-2	-52	-70	90	90	-80	-30	42	500
25	80	50	80	95	70	50	65	73	105	120	130	128	120	115	122	112	103	90	0	10	210	375	205	110	109	385</

Tromsö.

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

Gr. M. T.

JANUARY 1933

HOURLY MEAN VALUES

Table for January 1933 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

FEBRUARY

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

MARCH

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

Tromsø.

Vertical Intensity. V = 50100 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1953

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	20	42	50	80	20	12	30	70	77	85	88	105	95	100	100	119	115	108	100	75	100	55	67	20	78	200	
2	0	55	70	68	75	78	80	82	90	95	100	90	103	110	70	100	110	125	120	125	80	55	70	80	85	200	
3	40	55	45	52	45	65	70	92	100	112	110	70	100	110	125	120	120	125	80	55	70	80	120	85	87	220	
4	95	190	40	-75	30	78	80	95	97	105	100	90	92	90	97	95	105	102	70	100	95	97	97	95	86	355	
5	75	50	45	48	55	80	90	90	90	93	95	95	95	110	140	140	123	100	110	90	120	100	130	130	96	170	
6	240	170	55	60	90	70	90	110	105	105	97	105	112	125	125	118	115	103	95	95	130	70	45	80	105	215	
7	90	80	78	80	80	90	85	85	88	85	93	90	100	120	95	60	90	118	112	110	200	110	90	108	97	290	
8	95	85	88	90	100	102	95	100	95	102	110	107	110	122	118	118	118	118	118	118	118	118	118	118	118	230	
9	30	25	60	82	93	93	95	92	110	132	110	122	130	125	140	145	120	120	105	65	90	80	80	65	97	185	
10	70	90	95	92	85																					150	
11	90	95	97	95	98	98	95	90	98	95	90	90	98	120	125	120	110	105	110	105	90	78	42	60	96	105	
12	85	90	88	90	90	92	92	90	92	95	92	90	90	95	95	95	95	95	92	92	90	85	88	90	91	20	
13	90	90	88	95	100	100	100	95	95	100	95	92	92	88	95	92	90	98	100	92	90	90	90	90	94	25	
14	90	90	90	92	92	90	90	87	87	87	87	88	90	98	105	120	80	45	65	80	95	110	132	88	155		
15	35	60	50	50	53	60	60	77	82	80	87	90	103	130	127	108	120	100	20	30	200	360	250	67	100	785	
16	130	120	75	65	70	90	88	95	110	122	120	115	110	107	130	112	130	110	80	30	-20	70	65	120	93	415	
17	-30	-50	-50	-5	-35	10	80	100	100	107	100	125	-90	0	100	65	100	170	240	230	260	180	90	210	84	485	
18	280	360	70	170	220	225	240	253	250	270	260	260	280	270	115	100	87	63	40	25	160	270	380	220	203	605	
19	230	250	140	40	55	90	102	118	135	120	123	120	70	90	100	90	120	110	75	40	90	125	360	-5	115	530	
20	-30	52	80	92	102	100	70	100	110	122	110	127	100	112	120	78	52	120	85	40	280	80	107	140	98	500	
21	130	150	90	60	85	93	100	105	110	110	120	145	120	140	120	115	130	100	75	50	20	57	160	200	30	965	
22	-80	-60	10	70	102	90	90	130	123	115	105	120	110	125	110	105	25	93	112	260	-55	-2	90	77	665		
23	40	30	67	88	65	80	110	95	92	100	100	90	102	100	112	135	130	100	110	100	-20	100	210	100	93	425	
24	80	-12	20	55	90	92	112	110	110	108	100	95	100	93	120	110	112	120	108	82	95	112	320	-45	95	410	
25	80	18	75	82	95	102	102	107	105	120	105	120	125	105	132	120	80	118	100	110	110	130	142	104	230	850	
26	60	40	5	62	92	100	100	100	105	97	92	88	110	150	165	110	110	107	110	10	-8	25	45	68	61	270	
27	82	85	92	82	73	90	98	98	97	88	92	98	110	120	120	120	120	110	75	92	70	-40	130	92	250	290	
28	150	100	95	78	92	105	105	110	100	100	102	102	105	110	100	100	100	112	102	80	90	140	70	102	290	155	
29	-10	35	70	80	80	87	90	92	100	100	97	100	108	130	120	110	100	108	110	90	78	70	87	87	87	87	
30	50	75	92	100	100	102	102	100	100	100	103	98	98	95	93	100	100	100	90	95	90	110	65	210	99	255	
M	78	81	66	70	79	89	95	101	106	108	106	106	103	113	114	109	108	100	91	78	105	100	120	94	97	323	
QM	90	90	90	90	90	91	92	92	92	91	90	90	90	91	92	93	93	93	92	92	90	88	88	90	91		

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	100	120	92	100	102	107	90	85	98	90	110	100	30	-80	-220	-210	-80	-8	150	225	370	420	370	260	102	840
2	280	260	-10	-5	80	102	110	130	120	120	117	115	117	115	142	145	117	117	117	120	60	30	114	620		
3	215	115	10	50	72	90	97	105	102	102	95	122	137	125	120	135	105	93	60	45	80	107	165	57	100	315
4	50	75	93	90	75	67	82	93	105	105	107	107	100	105	110	125	30	105	135	-40	60	82	97	97	86	340
5	97	75	82	105	97	93	100	95	100	102	112	110	112	160	147	122	110	108	95	112	77	102	170	170	111	275
6	80	260	140	-105	20	87	87	90	105	117	120	145	120	140	120	130	127	115	102	93	57	80	130	380	113	810
7	200	60	32	77	97	95	92	110	97	102	107	107	120	150	140	115	112	102	103	105	90	80	85	92	103	750
8	100	100	100	102	102	100	102	100	100	97	100	100	102	115	135	130	127	120	102	100	100	100	97	100	105	60
9	107	107	107	105	102	105	102	102	100	100	98	100	105	110	107	105	105	100	100	100	97	95	95	97	102	30
10	92	92	82	85	92	100	95	97	105	102	95	80	83	93	97	100	105	100	97	95	95	92	97	100	95	30
11	90	85	70	83	90	87	90	97	95	100	100	102	103	112	130	140	132	127	110	117	102	100	100	100	103	60
12	100	100	102	105	102	100	100	100	97	90	90	87	92	97	100	103	102	100	100	100	90	87	70	57	95	60
13	70	80	83	87	97	87	65	75	95	93	102	130	175	113	97	102	107	100	97	102	40	25	70	125	92	310
14	160	5	70	95	107	110	110	107	97	90	90	120	143	127	110	32	55	145	162	320	322	190	190	128	520	
15	102	97	100	110	15	-22	70	82	108	110	123	140	120	105	107	107	100	100	82	87	90	195	150	22	95	370
16	80	80	80	90	102	102	102	102	105	107	102	117	137	150	112	105	107	100	90	30	60	162	135	140	101	295
17	70	75	55	80	100	100	103	102	102	97	105	117	115	110	90	105	113	80	68	25	75	110	225	300	105	385
18	300	110	70	10	95	-30	80	110	120	110	105	125	140	122	100	122	110	102	60	30	83	90	185	127	104	570
19	90	93	102	105	102	105	102	100	105	110	108	115	118	140	140	120	112	120	40	80	-10	-20	70	95	93	290
20	100	92	63	70	92	85	80	90	105	107	100	100	105	110	117	110	127	125	113	110	100	70	17	30	92	135
21	67	87	98	105	107	100	107	85	97	95	93	92	98	110	110	112	120	122	110	93	110	110	105	107	102	80
22	110	72	75	97	105	100	100	102	105	110	105	105	112	120	152	120	135	137	127	117	115	110	72	40	106	180
23	75	103	112	112	107	100	105	102	100	97	97	105	110	120	122	132	140	115	107	90	92	60	2	40	98	140
24	70	77	92	102	105	110	107	102	95	90	90	100	107	117	112	127	120	110	107	108	102	97	83	90	101	65
25	90	75	50	82	100	105	105	102	100	95	97	97	123	135	132	140	130									

Tromsø.

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

Gr. M. T.

APRIL 1933

HOURLY MEAN VALUES

Table for April 1933 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, PS, NS, AS).

MAY

Table for May 1933 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

JUNE

Table for June 1933 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, PS, NS, AS).

Tromsø.

Vertical Intensity. $V = 50100 +$ Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1933

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	92	100	112	112	113	117	110	110	112	117	115	107	130	115	120	140	140	120	112	130	132	130	135	245	124	235	
2	65	10	82	103	107	110	112	107	107	113	110	105	107	130	130	127	130	117	117	115	113	115	108	110	106	275	
3	125	80	30	80	92	97	105	110	107	107	103	105	110	110	120	132	130	112	120	115	110	92	90	100	103	215	
4	100	102	97	90	92	110	115	113	110	105	97	100	110	105	147	157	135	130	125	125	35	65	85	92	106	150	
5	97	90	65	60	70	92	95	102	107	105	107	110	100	103	127	132	113	100	100	97	102	102	102	99	95	95	
6	102	75	80	97	90	100	100	100	107	107	112	120	112	110	115	115	127	130	115	97	100	97	95	110	105	95	
7	113	115	115	113	115	113	112	107	105	105	105	102	110	115	120	125	137	125	120	107	105	107	85	112	70	70	
8	67	85	107	117	115	110	110	110	107	105	102	102	107	117	122	125	137	127	120	100	100	127	175	114	160	160	
9	175	110	15	80	93	100	110	113	117	160	145	92	150	145	127	137										340	
10	110	110	110	117	85	90	100	110	117	117	116	123	115	110	122	115	107	112	102	5	40	140	82	20	99	290	
11	60	180	55	87	90	110	117	120	125	127	120	130	140	115	130	120	150	142	130	125	117	110	102	110	117	235	
12	70	60																									
13																											
14	70	50	70	85	100	100	107	107	110	110	107	107	110	105	110	115	117	115	110	100	112	107	100	65	100	95	
15	77	102	110	113	115	117	117	115	113	115	113	110	112	110	110	110	110	112	112	110	107	95	80	108	40	40	
16	100	107	107	112	110	115	115	110	115	115	107	115	125	137	150	130	110	110	117	115	120	123	117	110	116	70	
17	100	65	70	85	97	100	110	107	100	100	107	110	120	170	172	160	125	120	120	117	120	140	120	119	145	145	
18	225	230	13	10	30	70	90	117	125	130	115	117	125	135	125	127	105	120	100	80	90	92	102	117	111	315	
19	117	110	105	105	97	103	105	110	117	117	117	112	160	117	110	130	160	130	125	120	100	72	30	42	107	150	
20	60	70	92	107	87	80	85	100	115	130	115	110	112	125	142	160	160	153	122	117	115	97	80	97	110	140	
21	95																										
22	100	95	72	45	77	90	97	100	103	107	107	110	120	145	177	165	143	120	110	110	110	117	115	117	111	160	
23	112	80	40	85	110	115	117	112	110	100	110	110	120	150	95	97	82	35	92	180	215	220	240	180	121	530	
24	220	63	120	340	-15	55	90	135						160	117	90	122	140	130	130	123	117	90	40	119	260	
25	65	90																									
26	87	110	117	120	123	123	125	117	120	120	115	110	115	140	143	150	142	137	132	125	122	125	15	-20	113	200	
27	52	70																									
28	55	100	115	117	122	122	120	123	132	132	130	127	122	120	120	125	130	120	115	90	107	100	110	100	114	120	
29	100	110	105	105	110	117	115	112	112	117	110	110	130	160	147	155	150	142	133	130	127	115	105	112	122	95	
30	102	112	117	120	125	122	120	117	112	112	115	130	135	132	122	125	120	127	120	120	120	105	107	95	118	85	
31	112	120	117	117	120	120	117	112	120	117	112	120	125	115	130	125	140	140	137	112	80	115	120	117	110	119	100
M	101	97	86	105	85	104	109	112	114	115	112	112	120	127	127	130	128	123	118	112	110	113	116	101	112	180	
GM	113	112	112	113	113	114	113	113	112	112	111	110	110	110	111	112	113	114	115	115	114	114	113	113			113

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	120	120	120	120	120	117	115	112	110	115	120	120	117	110	107	110	120	122	122	122	122	122	122	120	118	25
2	115	120	117	115	115	120	115	115	115	115	118	125	120	125	125	135	135	125	125	117	102	40	45	105	113	140
3	120	120	108	97	105	105	115	112	112	110	110	110	107	115	112	115	125	125	125	118	115	100	95	92	111	45
4	100	112	107	115	115	115	115	112	110	105	110	110	110	110	110	117	117	120	127	125	125	110	110	122	114	100
5	70	87	105	110	110	110	97	102	100	100	97	95	155													230
6	125	145	260	35	70	92	110	120	118	120	122	130	135	125	145	165	150	160	70	87	100	117	120	120	123	355
7	115	110	107	115	110	122	135	130	130	130	125	127	140	130	135	132	140	120	122	125	122	115	85	23	118	170
8	60	105	72	85	87	110	112	120	122	120	117	120	117	125	135	140	152	137	127	120	120	110	87	-15	197	215
9	22	60	90	110	115	120	120	120	122	120	115	127	125	140	157	150	155	147	140	140	130	120	110	97	118	175
10	80	102	117	125	125	123	120	115	120	120	117	117	113	120	122	125	122	120	120	123	122	120	120	118	50	118
11	127	117	100	115	122	122	120	130	120	117	120	120	120	127	125	122	120	123	130	135	125	115	92	77	118	50
12	102	115	117	122	125	127	130	130	130	125	125	117	115	110	110	110	117	107	120	127	125	117	123	119	30	119
13	80	60	93	110	117	112	113	102	102	100	120	160	170	160	157	127	147	110	50	50	70	225	440	180	131	830
14	25	103	80	70	97	112	123	135	127	120	122	135	162	160	135	160	145	125	137	137	137	140	120	67	120	260
15	105	122	100	110	105	107	120	117	135	157	140	152	162	182	150	140	132	140	70	55	100	120	113	117	123	220
16	110	105	102	112	120	125	125	125	123	123	120	120	125	127	135	137	140	137	117	105	95	45	60	115	115	115
17	100	110	113	105	70	82	110	122	142	132	125	120	120	152	200	185	147	115	97	140	115	125	137	125	125	175
18	150	70	113	125	127	120	110	85	100	120	120	122	135	150	130	127	80	60	160	370	80	70	160	270	131	800
19	220	150	75	90	93	85	123	130	112	125	135	162	165	180	162	132	135	140	140	120	103	57	72	100	126	385
20	110	82	112	97	110	115	117	127	125	125	130	135	155	157	160	165	155	140	75	100	120	300	10	70	125	465
21	105	82	112	85	92	117	133	130	130	150	170	170	175	185	165	110	10	100	152	90	-5	55	115	130	115	410
22	125	120	127	125	130	130	135	132	125	125	130	130	127	137	133	135	130	127	127	130	127	130	127	125	129	40
23	127	127	127	130	130	127	120	120	130	142	130	130	145	137	135	160	140	127	80	-20	120	230	77	83	124	375
24	110	115	100	90	110	125	125	127																		

Tromsø.

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

Gr. M. T.

JULY 1933

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	-21	-12	0	0	0	0	0	0	0	0	-5	20	5	9	28	27	5	-3	15	18	16	22	132	11	298	41	359				
2	-48	-102	-30	-10	-6	-4	-1	-6	-5	-1	-1	-5	-3	20	19	15	17	3	2	0	-1	1	-5	-3	-6	78	230	308			
3	12	-32	-82	-33	-21	-17	-8	-3	-5	-5	-8	-5	0	0	9	20	17	-2	5	0	-4	-22	-23	-15	-9	63	283	346			
4	-13	-10	-15	-23	-21	-4	2	0	-2	-7	-14	-10	0	-5	36	45	22	16	10	10	21	-49	-28	-21	-3	162	222	384			
5	-16	-22	-47	-53	-43	-22	-18	-11	-5	-7	-6	-3	0	-10	-8	15	19	-1	-15	-15	-17	-12	-11	-11	-13	34	353	387			
6	-11	-37	-32	-16	-23	-14	-13	-13	-5	-5	1	10	2	0	4	3	14	16	0	-18	-14	-17	-18	-3	-8	50	239	289			
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	23	10	5	-7	-9	-6	-28	0	62	55	117			
8	-46	-27	-5	4	2	-4	-3	-3	-5	-7	-9	-8	-3	7	11	13	24	18	12	5	-14	-14	14	62	1	172	148	320			
9	62	-2	-97	-53	-10	-14	-3	0	5	48	34	18	40	35	16	25	25	17	11	5	-14	-12	12	-3	8	295	203	498			
10	-3	-2	-2	4	-28	-24	-13	-3	5	4	13	5	0	11	3	6	-2	-13	-110	-74	26	-21	-93	-13	7	176	394	470			
11	-53	68	-57	-26	-23	-4	4	7	13	15	9	20	30	5	19	8	37	28	15	10	3	-4	-11	-3	5	291	181	472			
12	-43	-52							8	-5	-9	3	10													21	109	130			
13	-43	-62	-42	-25	-10	-8	0	0	0	0	0	0	-5	-1	3	4	1	-5	-15	-2	-7	-13	-28	-11	8	266	274				
14	-37	-10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	-5	-17	-32	-4	0	103	103			
15	-10	0	0	0	0	0	0	0	0	-5	5	15	27	39	18	-3	-4	2	0	6	9	4	-3	4	125	25	150				
16	-13	-47	-42	-28	-16	-14	-3	-6	-12	-12	-4	0	10	60	61	48	12	6	5	2	6	26	79	37	6	352	197	549			
17	112	118	-99	-103	-85	-44	-23	4	13	18	4	7	50	63	14	15	-8	6	-15	-30	-24	-22	-11	4	-1	428	462	890			
18	4	-2	-7	-8	-15	-11	-8	-3	5	1	10	7	0	19	48	17	11	5	5	-14	-42	-63	-71	-5	-1	137	285	402			
19	-53	-42	-20	-6	-26	-34	-28	-13	3	18	4	0	2	15	31	48	47	39	7	1	17	-33	-16	-2	234	271	605				
20	-18	-17	-40	-68	-36	-24	-16	-13	-9	-5	-4	0	10	35	66	55	30	6	-5	-5	4	3	-4	-6	-13	83	41	124			
21	-13	-32	-72	-28	-3	1	4	-1	-2	-2	-1	0	10	40	-16	-15	-31	-79	-23	101	106	127	87	4	-2	209	258	468			
22	107	-49	8	227	-128	-59	-23	22																	9	521	306	827			
23	-48	-22																								497	377	874			
24	-26	-2	5	7	10	9	12	4	8	8	4	0	5	30	32	38	29	23	17	10	8	11	-98	-153	0	270	259	589			
25	-31	-42																													
26	-58	-12	3	4	9	8	7	10	10	19	17	12	10	9	13	17	6	-10	-25	-7	-14	-3	-13	1	164	142	306				
27	-13	-2	-7	-8	-3	3	2	-1	0	5	-1	0	20	50	36	43	37	28	18	15	13	1	-8	-1	9	271	64	315			
28	-11	-3	0	0	0	0	0	0	0	0	0	4	20	18	20	14	0	0	0	0	0	-15	-13	-25	0	76	47	143			
29	-8	0	0	0	0	0	0	0	0	0	5	12	5	20	14	28	27	23	-3	-35	1	6	4	-3	4	145	49	194			
M	-12	-16	-26	-9	-18	-11	-5	-1	2	3	1	4	10	17	16	18	15	9	3	-3	-1	0	3	-12	-1	179	191	370			
MPS	10	6	1	9	1	1	1	2	4	5	3	5	10	18	17	19	17	12	6	7	7	9	18	10							
MNS	22	22	27	18	19	11	6	3	2	2	2	1	0	1	1	2	2	3	3	9	8	9	15	22							

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	PS	NS	AS			
1	0	0	0	0	0	0	0	0	0	0	0	0	-9	-13	-10	0	0	0	0	0	0	0	0	-1	0	32	32			
2	0	0	0	0	0	0	0	0	0	0	1	7	2	6	5	15	15	4	4	-5	-20	-81	-76	-15	-6	59	197	256		
3	0	1	-11	-21	-13	-12	0	0	0	0	0	-8	-3	-8	-5	5	4	4	-7	-21	-26	-28	-6	14	167	181				
4	-20	-7	-12	-3	-3	-3	-3	-5	-7	-12	-8	-8	-8	-9	-10	-3	-3	3	-11	-11	-2	2	-6	14	147	161				
5	-50	-52	-14	-8	-8	-8	-21	-15	-17	-17	-23	37													134	332	466			
6	5	26	141	-83	-48	-26	-8	3	1	3	4	12	17	6	25	45	30	39	-51	-35	-22	-4	-1	0	3	357	278	635		
7	-5	-9	-12	-3	-8	4	17	13	13	13	7	9	22	11	15	12	20	-1	1	3	0	-6	-56	-97	-2	160	197	357		
8	-60	-14	-47	-33	-31	-8	-6	3	5	-1	2	-1	6	15	20	32	16	6	-2	-11	-54	-135	-12	108	405	513				
9	-98	-59	-29	-8	-3	0	0	0	0	-3	9	7	21	37	30	15	26	19	18	8	-1	-11	-23	-2	190	235	425			
10	-40	-17	-2	7	5	2	-2	3	3	-1	-1	-5	0	0	0	0	0	0	0	0	0	0	0	0	-2	27	68	95		
11	7	-2	-19	-3	4	4	0	0	0	0	0	0	7	5	2	0	2	9	13	3	-6	-29	-43	-2	56	102	158			
12	-18	-4	-2	4	7	9	12	13	13	8	7	-1	-3	-9	-5	-10	-10	-4	-14	-2	5	4	-4	3	0	85	86	171		
13	-40	-59	-26	-8	-1	-6	-5	-15	-15	-17	2	42	52	41	37	7	27	-11	-71	-72	-52	104	319	60	12	691	398	1089		
14	-95	-16	-39	-48	-21	-6	5	18	10	3	4	17	44	41	15	40	25	4	16	15	20	39	-31	-53	0	316	309	625		
15	-15	3	-19	-8	-13	-11	2	0	18	40	22	34	44	63	30	20	12	19	-51	-67	-22	-1	-8	-3	4	307	218	525		
16	-10	-14	-17	-6	2	7	5	8	6	5	2	2	6	7	15	17	19	16	-6	-17	-26	-76	-60	-4	124	231	355			
17	-20	-9	-6	-13	-48	-36	-8	5	25	15	7	2	33	80	65	27	-6	-24	18	-7	4	16	5	5	304	177	481			
18	30	-49	-6	7	9	-8	-52	-17	3	2	4	17	31	10	7	-40	-61	39	248	-42	-51	39	150	12	598	306	904			
19	100	31	-44	-28	-25	-33	5	13	-5	8	17	44	67	61	42	12	15	19	19	-2	-19	-64	-49	-20	7	453	289	742		
20	-10	-37	-7	-21	-3	-3	-1	10	8	8	12	17	37	38	40	45	35	19	-46	-22	-2	179	-111	-50	5	448	318	766		
21	-15	-37	-7	-33	-26	-1	15	13	13	33	52	52	57	66	45	-10	-110	-21	31	-32	-127	-66	-6	10	-4	387	491	877		
22	5	1	6	7	12	12	17	15	18	8	12	12	9	18	13	15	10	9	6	5	8	6	5	9	4	227	0	278		
23	7	8	8	12	12	9	2	3	13	25	12	12	27	18	15	60	20	6	-41	-142	-2	109	-44	37	5	378	266	644		
24	-10	-4	-19	-28	-6	7	10	36	33	14	42	42	21	17	62	0	9	-46	58	53	39	119	125	24	214	115	809			
25	55	-9	-12	-55	-38	-13	7	40	35	18	28	27	22	23	20	20	17	19	14	3	-7	-6	6	2	9	350	140	9		
26	20	11	-92	-68	-26	-23	-6	8	10	10	9	32	26	20	10	0	9	9	-32	-57	-19	-24	-18	-8	183	365	548			
27	-15	0	-5	0	0	0	0	0	0	0	0	0	0	7	7	9	9	11	-12	-12	1	-1	-							

Tromsø.

Vertical Intensity. $V = 50100 +$ Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1933

HOURLY MEAN VALUES

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	M	R		
1	120	120	115	120	117	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	119	45		
2	115	117	120	110	107	107	110	115	120	122	127	127	125	140	150	140	133	137	133	125	115	65	45	70	115	120	
3	97	115	117	117	117	117	117	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	116	80		
4	80	100	107	100	100	100	93	105	115	120	117	117	120	120	130	155	110	100	110	120	122	150	270	305	127	385	
5	500	260	-35	-30	-32	25	90	112	117	125	130	120	140	140	150	160	135	145	117	92	122	145	15	45	108	635	
6	130	50	50	23	40	70	102	115	130	160	145	135	175	140	142	152	150	140	105	110	125	120	117	112	114	190	
7	113	135	120	-50	25	60	112	145	125	140	140	155	125	117	130	170	105	-30	52	125	115	-65	60	140	94	430	
8	145	77	60	53	105	95	115	135	142	162	152	135	122	127	150	125	137	77	97	70	105	55	12	40	104	215	
9	85	70	70	100	70	75	102	122	140	157	125	140	140	160	132	127	135	105	100	-115	-50	85	220	-45	94	510	
10	-30	105	-30	12	90	107	135	152	165	150	165	135	107	135	137	132	100	115	95	170	130	170	117	130	112	280	
11	97	95	95	90	100	115	120	140	140	130	140	140	127	127	142	140	150	117	115	75	40	80	250	40	116	425	
12	590	230	-60	10	55	72	90	110	107	110	115	140	150	160	147	140	120	120	120	120	117	117	120	117	122	570	
13	117	117	120	120	120	117	117	120	115	120	130	140	150	110	-10	200	175	130	117	130	125	125	150	310	133	545	
14	50	60	20	50	87	95	112	125	130	130	165	165	160	150	140	140	120	110	-5	85	80	20	102	65	98	700	
15	62	92	120	120	115	112	115	117	120	117	120	120	130	132	145	140	100	140	125	-10	40	70	85	100	105	250	
16	100	105	120	120	120	115	115	120	127	127	127	145	160	137	137	140	145	147	135	125	115	110	97	115	125	95	
17	100	100	117	117	117	112	115	120	122	123	120	120	127	122	125	130	150	125	125	105	107	190	20	-25	112	445	
18	-130	-90	-5	0	30	55	105	145	180	160	127	137	155	60	130	145	145	137	132	120	160	75	60	105	89	485	
19	102	120	100	105	112	115	117	120	120	117	117	117	120	122	125	130	145	130	122	115	117	110	90	20	113	155	
20	50	100	105	107	107	110	115	112	120	120	127	122	125	117	122	140	155	140	120	112	95	110	95	113	114	135	
21	107	90	110	120	120	113	115	117	120	120	122	125	127	132	130	127	125	130	137	137	130	120	120	115	121	45	
22	117	117	120	120	115	110	107	110	122	120	125	125	122	127	127	125	120	120	120	120	120	115	107	90	118	80	
23	60	100	107	112	115	112	112	115	117	117	117	115	115	117	120	125	122	122	130	130	117	65	70	65	108	210	
24	87	112	115	112	117	117	117	115	117	117	115	110	117	122	120	150	150	170	127	113	80	110	110	170	120	230	
25	195	90	75	60	83	122	132	135	142	147	125	117	115	120	125	130	140	135	135	100					102	365	
26	72	85	100	105	105	120	115	125	122	122	122	122	130	130	120	130	117	120	122	122	135	-40	30	105	101	295	
27	115	95	40	25	32	42	77	100	115	120	117	117	115	115	115	115	125	125	117	117	115	105	90	95	98	135	
28	85	60	70	82	100	100	107	115	117	117	122	125	127	125	127	120	117	120	120	115	100	95	102	105	107	85	
29	112	107	105	110	110	110	110	112	115	117	120	117	120	120	120	120	117	117	115	115	110	100	95	113	30	115	
30	102	100	110	110	107	107	110	117	117	117	117	120	122	127	132	150	160	155	150	135	130	115	107	110	122	70	
31	115	115	115	112	112	110	110	110	110	110	110	110	110	105	110	112	120	120	117	117	120	115	115	115	115	113	25
M	103	101	80	80	91	98	111	120	126	128	127	128	130	126	126	137	130	121	114	105	102	93	100	97	111	266	
GM	116	115	115	115	115	116	116	116	116	117	117	117	118	118	119	120	120	120	120	120	119	118	117	116		117	

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	120	117	115	117	117	110	110	115	120	125	125	120	140	170	140	137	133	127	127	190	65	65	72	90	119	170
2	103	105	95	100	107	110	110	112	120	120	130	135	127	130	125	120	130	130	110	170	35	55	100	115	112	170
3	120	117	110	92	87	105	112	120	120	122	125	120	122	127	130	155	150	135	15	45	155	90	70	93	110	365
4	95	110	110	115	132	132	125	122	127	127	130	125	130	175	170	175	170	80	120	220	-20	65	80	40	119	500
5	87	105	110	120	115	115	117	120	120	125	125	125	130	140	130	125	125	90	70	52	100	85	120	-5	106	270
6	50	65	72	25	60	75	103	110	115	120	120	122	130	155	-40	-180	5	130	-20	45	180	190	155	155	81	500
7	210	75	-15	80	112	115	120	127	140	155	145	165	140	155	140	130	65	0	115	240	100	-85	30	60	105	585
8	125	170	10	35	60	110	110	140	150	155	150	137	120	125	160	150	150	120	110	97	110	-100	90	155	110	645
9	100	100	117	100	85	90	120	150	140	142	140	152	150	142	150	135	120	137	105	122	85	5	90	117	116	330
10	120	115	107	95	83	65	110	125	120	117	120	150	170	185	180	165	130	125	130	75	87	110	-32	114	275	
11	-10	60	15	40	80	82	100	105	127	145	140	120	140	150	147	150	105	127	97	70	170	195	100	92	106	370
12	25	60	110	105	123	125	122	120	120	125	127	133	120	130	142	127	130	110	20	70	105	85	40	45	102	215
13	52	95	117	112	117	117	120	122	125	130	130	122	127	125	122	122	120	110	117	117	117	117	115	116	120	180
14	115	115	112	112	110	110	110	112	112	117	120	120	120	120	117	120	140	130	135	125	60	72	95	95	112	155
15	107	110	112	115	110	110	112	112	112	115	115	120	120	125	130	140	150	127	120	120	100	110	112	118	80	116
16	115	112	110	110	107	110	105	110	110	110	110	110	130	150	142	120	120	117	120	130	120	130	110	77	116	100
17	72	62	85	110	110	110	110	110	110	115	112	112	117	120	120	123	132	132	160	140	137	122	117	115	50	105
18	90	70	110	127	120	85	77	100	112	115	115	112	115	115	122	115	117	75	75	135	130	120	110	107	107	105
19	115	110	110	97	95	97	97	105	110	110	117	122	125	120	120	117	120	132	135	125	110	155	145	-10	112	350
20	5	10	70	100	110	115	117	115	115	112	112	112	112	115	115	115	117	120	120	112	75	85	70	90	97	155
21	132	-125	-15	60	100	110	110	110	107	107	105	120	122	132	127	130	140	125	130	120	115	60	50	160	97	420
22																										

Tromsø.

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

Gr. M. T.

Table for October 1933 showing hourly mean values (1-25) and monthly totals (M, PS, NS, AS) for Magnetospheric Storminess (MPS) and Magnetospheric Storminess (MNS).

NOVEMBER

Table for November showing hourly mean values (1-25) and monthly totals (M, PS, NS, AS) for Magnetospheric Storminess (MPS) and Magnetospheric Storminess (MNS).

DECEMBER

Table for December showing hourly mean values (1-25) and monthly totals (M, PS, NS, AS) for Magnetospheric Storminess (MPS) and Magnetospheric Storminess (MNS).

Resuming Tables.

Diurnal Variation.
QUIET VALUES.

Tromsø.																								
Declination. Unit Gamma. + West.																								
1933	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JANUARY	-1	-1	-1	-1	-1	-1	-1	0	1	2	2	2	2	2	1	1	1	0	-1	-1	-1	-1	-1	
FEBRUARY	-4	-4	-4	-3	-2	-2	-2	-1	0	1	3	5	5	5	5	3	3	3	1	0	-2	-2	-2	-2
MARCH	-4	-5	-6	-6	-6	-7	-7	7	-5	0	5	9	11	11	9	6	4	2	1	-1	-2	-3	-3	-3
APRIL	-4	-6	-9	-12	-13	-12	-12	-8	-2	2	6	11	13	12	10	8	6	6	5	3	1	0	0	-2
MAY	-2	-7	-12	-17	-17	-17	-17	-12	-7	-2	5	13	18	16	13	10	6	3	6	8	8	5	3	0
JUNE	-7	-12	-17	-20	-20	-19	-17	-12	-7	0	8	13	15	13	13	11	10	10	10	9	8	5	0	0
JULY	-8	-12	-15	-17	-18	-20	-15	-10	-5	0	5	10	15	20	18	15	12	10	10	10	8	5	0	-5
AUGUST	-7	-12	-17	-19	-20	-19	-17	-12	-5	5	13	18	18	16	13	10	8	10	10	8	6	3	-2	-5
SEPTEMBER	-8	-10	-12	-13	-12	-10	-8	-5	0	5	10	15	15	15	10	5	2	3	5	5	3	0	-3	-5
OCTOBER	-4	-5	-6	-6	-5	-5	-4	-3	0	3	6	10	9	8	6	4	4	3	2	0	-2	-3	-4	-5
NOVEMBER	-2	-2	-2	0	0	0	0	1	1	1	3	3	3	3	3	1	1	0	0	-2	-2	-2	-2	-2
DECEMBER	-1	-1	-1	-1	-3	-4	-3	-1	-1	1	2	4	4	4	2	2	1	0	-1	-1	-1	-1	-1	-1
MEAN	-4	-6	-9	-10	-10	-10	-9	-6	-3	1	6	9	11	10	9	6	5	4	4	3	2	1	-1	-3
Horizontal Intensity. Unit Gamma.																								
JANUARY	-6	-4	-2	1	3	3	2	1	-1	-2	-2	-1	0	1	1	1	1	3	3	1	-1	-2	-4	-5
FEBRUARY	-3	-1	1	2	2	2	1	-1	-3	-5	-6	-5	-3	0	2	2	3	3	3	2	2	1	-1	-2
MARCH	-1	0	2	3	4	3	2	-2	-6	-10	-12	-10	-6	-1	2	4	6	7	5	5	4	2	0	-1
APRIL	3	3	4	3	1	-2	-6	-11	-14	-14	-17	-14	-9	-4	1	4	6	8	8	7	6	4	3	0
MAY	4	5	6	4	2	0	-7	-15	-22	-27	-24	-17	-9	-2	3	8	13	16	18	16	12	8	6	5
JUNE	2	4	5	5	2	-3	-8	-13	-18	-20	-18	-13	-6	0	5	9	12	15	15	12	7	4	3	2
JULY	3	5	7	7	4	-1	-8	-16	-21	-23	-21	-15	-8	-1	4	9	12	15	15	12	7	4	2	0
AUGUST	2	4	6	6	4	-1	-9	-16	-22	-24	-19	-15	-9	-3	3	7	11	14	16	14	11	7	4	2
SEPTEMBER	3	3	3	2	0	-4	-9	-15	-19	-19	-14	-10	-5	0	3	6	8	11	13	13	11	8	5	3
OCTOBER	3	3	3	3	3	3	1	-2	-5	-7	-9	-7	-5	-2	1	3	5	6	5	3	1	0	1	3
NOVEMBER	0	0	1	3	3	1	1	0	-2	-4	-5	-4	-2	1	3	3	3	3	3	3	1	1	1	0
DECEMBER	-2	-2	-2	-1	-1	1	1	-1	-2	-2	-4	-2	-1	1	3	3	3	3	3	3	3	1	-1	-2
MEAN	1	2	3	3	2	0	-3	-7	-11	-13	-13	-9	-5	-1	3	5	7	9	9	8	5	3	2	1
Vertical Intensity. Unit Gamma.																								
JANUARY	0	-1	-1	-1	-2	-2	-2	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	0	0	0	0
FEBRUARY	-2	-3	-2	0	0	0	0	0	0	0	1	2	2	2	2	2	1	0	0	0	0	0	0	0
MARCH	-3	-5	-5	-3	-2	0	0	0	0	0	1	2	2	2	2	1	0	0	0	2	2	0	-2	-2
APRIL	-1	-1	-1	-1	-1	0	1	1	1	0	-1	-1	-1	0	1	2	2	2	1	1	-1	-3	-3	-1
MAY	1	2	3	4	4	3	2	1	1	-1	-2	-2	-1	-1	0	1	1	0	-1	-2	-2	-2	-1	1
JUNE	-2	-2	-1	-2	-2	-2	-2	-1	-1	-1	-1	-1	0	0	1	1	2	2	1	1	1	0	-1	-2
JULY	0	-1	-1	0	0	1	0	0	-1	-1	-2	-3	-3	-2	-1	0	1	1	2	2	3	1	0	0
AUGUST	1	0	0	-1	-1	-1	-1	-2	-2	-2	-1	-1	0	1	1	1	2	2	3	3	2	2	2	1
SEPTEMBER	0	-1	-1	-2	-2	-2	-1	-1	-1	-1	0	0	0	1	1	2	2	2	2	2	2	2	1	0
OCTOBER	-1	-2	-2	-2	-2	-1	-1	-1	-1	0	0	0	1	1	2	3	3	3	3	3	2	2	1	0
NOVEMBER	-1	-2	-3	-3	-4	-4	-3	-3	-2	-2	-1	0	1	2	3	4	5	4	3	2	1	0	0	0
DECEMBER	-2	-2	-2	-2	-2	-3	-4	-4	-3	-2	-1	0	1	2	3	4	4	3	2	1	0	-1	-2	-2
MEAN	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	2	2	2	2	2	2	1	0	0	-1
Monthly Means.																								
DECLINATION.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN											
DIRECT VALUES. $D = 3^\circ W + \dots$	43.8	41.9	41.0	39.2	37.5	38.4	37.8	36.3	33.9	33.2	32.2	32.4	37.3											
QUIET VALUES. $D_0 = 5^\circ W + \dots$	45.0	44.0	43.0	41.0	38.0	38.0	36.0	36.0	36.0	35.0	33.5	33.0	38.2											
RANGE	61	59	70	81	65	51	38	48	74	63	56	52	59.8											
QUIET RANGE	0.8	2.4	4.8	7.8	10.5	10.5	12.0	11.4	8.1	4.8	1.5	2.4	6.4											
STORMINESS, MEAN (UNIT γ)	-4	-7	-7	-6	-1	0	0	-1	-8	-6	-5	-3	-4.0											
DIURNAL SUM PS (UNIT γ)	80	69	97	138	180	160	97	117	73	78	82	63	103											
NS	180	237	263	290	208	169	95	132	249	210	205	137	198											
AS	261	306	360	428	389	329	193	249	322	285	287	201	301											
HORIZONTAL INTENSITY.																								
DIRECT VALUES. $H = 11400 + \dots$	86	72	69	66	77	87	92	77	58	57	61	67	72.1											
QUIET VALUES. $H_0 = 11400 + \dots$	99	96	93	89	92	93	93	86	82	77	77	74	87.6											
RANGE	368	436	465	558	427	382	285	366	466	444	394	291	407											
QUIET RANGE	9	9	19	25	45	35	38	40	32	15	8	7	24											
STORMINESS, MEAN (UNIT γ)	-13	-24	-24	-23	-15	-8	-1	-9	-24	-20	-16	-7	-15.3											
DIURNAL SUM PS (UNIT γ)	226	236	315	422	355	377	295	319	281	202	194	154	281											
NS	556	800	888	971	698	556	310	524	864	681	582	324	645											
AS	762	1036	1203	1394	1053	933	605	843	1145	882	776	478	926											
VERTICAL INTENSITY.																								
DIRECT VALUES. $V = 50100 + \dots$	87	80	84	97	102	107	112	119	118	111	110	112	103.2											
QUIET VALUES. $V_0 = 50100 + \dots$	92	90	90	91	99	107	113	119	118	117	115	114	105.4											
RANGE	251	275	286	323	299	254	180	219	306	266	247	222	261											
QUIET RANGE	3	5	7	5	6	4	5	5	4	5	9	8	6											
STORMINESS, MEAN (UNIT γ)	-3	-10	-5	6	2	0	-1	1	0	-5	-5	-2	-1.8											
DIURNAL SUM PS (UNIT γ)	154	175	229	408	335	246	179	222	320	198	181	171	235											
NS	264	414	342	275	270	255	191	207	310	324	295	212	280											
AS	418	589	571	683	605	500	370	429	630	522	476	384	515											

Resuming Tables.

Storminess.

Tromsö.		Declination. Unit Gamma. + West.																						
1933		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	3	2	2	3	4	6	7	7	8	4	6	7	1	3	3	0
FEB	MPS	4	2	1	1	1	1	2	3	4	3	3	4	6	7	5	3	3	4	3	3	5	3	0
MAR	MPS	0	0	0	0	1	2	4	4	2	2	3	6	8	11	10	9	9	7	8	4	3	1	11
APR	MPS	2	4	2	0	0	2	3	4	3	3	5	6	9	14	14	13	10	10	11	11	2	1	0
MAY	MPS	0	0	0	0	1	2	4	4	8	10	10	9	9	10	10	17	21	25	21	13	7	1	0
JUN	MPS	1	2	2	2	4	5	6	7	5	6	9	9	10	14	13	14	16	12	14	9	5	2	1
JUL	MPS	1	2	2	3	3	6	5	4	4	5	8	9	9	5	6	7	8	6	7	5	3	1	1
AUG	MPS	0	1	2	2	3	4	5	7	7	5	4	5	4	6	10	10	12	11	13	3	2	1	0
SEP	MPS	1	1	1	1	1	1	4	3	2	3	4	3	3	4	6	5	9	8	6	6	1	1	0
OCT	MPS	1	0	0	1	5	4	5	4	3	3	3	5	6	8	9	6	4	3	4	3	1	1	0
NOV	MPS	1	1	1	1	2	4	5	3	3	4	4	5	6	6	5	6	6	6	3	5	2	3	0
DEC	MPS	1	1	1	0	3	4	4	4	3	3	3	2	2	3	3	2	3	6	10	5	1	0	0
MEAN		1	1	1	1	2	3	4	4	4	4	5	6	7	8	8	8	9	9	9	7	3	2	0
JAN	MNS	24	22	14	9	7	3	1	1	2	1	1	0	0	3	0	2	2	4	3	8	11	14	22
FEB	MNS	24	24	36	19	10	4	1	1	0	1	0	0	0	1	1	4	5	3	11	12	7	14	25
MAR	MNS	42	58	32	25	10	2	1	1	1	2	2	0	0	0	0	1	3	6	3	4	6	31	19
APR	MNS	38	38	36	11	7	2	2	2	2	2	1	0	1	1	1	2	1	2	4	12	18	27	41
MAY	MNS	36	32	20	13	12	7	2	1	0	0	0	1	1	1	1	0	1	0	2	3	6	9	25
JUN	MNS	29	38	26	14	9	2	2	2	2	1	1	1	0	0	0	1	0	1	0	0	1	6	21
JUL	MNS	14	20	9	7	6	4	4	4	2	1	0	0	0	1	0	1	2	1	2	1	3	5	10
AUG	MNS	15	18	15	9	4	3	2	2	2	2	1	2	1	1	1	1	1	1	2	6	6	11	11
SEP	MNS	24	22	28	15	8	5	4	4	5	1	3	3	2	2	1	3	3	3	8	18	27	30	
OCT	MNS	36	32	17	8	2	1	1	1	2	1	2	1	1	1	1	4	5	6	5	5	11	14	22
NOV	MNS	25	15	8	6	4	2	1	1	1	1	1	1	0	0	4	5	6	5	12	10	21	30	25
DEC	MNS	10	8	5	5	2	0	0	0	0	0	0	0	1	1	1	5	4	4	4	16	12	20	26
MEAN		26	26	21	12	7	3	2	2	1	2	1	1	1	1	1	2	3	3	4	7	9	17	23
JAN	MPS - MNS	-24	-21	-13	-9	-7	0	3	2	0	1	2	4	6	4	6	5	6	0	3	-1	-10	-11	-19
FEB	MPS - MNS	-20	-23	-35	-19	-9	-3	1	2	4	2	2	4	6	6	3	-1	-2	2	-7	-9	-2	-11	-25
MAR	MPS - MNS	-42	-58	-32	-25	-9	0	3	3	1	0	1	6	8	11	9	8	5	0	4	1	-3	-30	
APR	MPS - MNS	-36	-34	-24	-11	-7	-1	2	2	1	2	5	9	13	13	13	11	10	9	7	-2	-16	-26	
MAY	MPS - MNS	-36	-32	-20	-13	-11	-5	2	3	8	10	10	8	9	9	17	20	25	19	10	-1	-8	-23	
JUN	MPS - MNS	-27	-35	-24	-12	-5	2	4	5	4	5	8	8	9	14	13	14	16	11	13	9	4	-4	
JUL	MPS - MNS	-13	-18	-7	-4	-3	2	1	1	2	4	8	9	9	5	5	6	6	6	6	4	0	-4	
AUG	MPS - MNS	-14	-17	-13	-7	0	1	3	5	5	3	3	4	2	5	8	9	12	11	11	-3	-4	-10	
SEP	MPS - MNS	-24	-24	-28	-14	-7	-4	-2	-1	-2	-2	0	1	2	5	4	6	5	3	-2	-16	-27		
OCT	MPS - MNS	-35	-32	-16	-7	3	3	4	3	2	1	1	2	4	7	8	2	-1	-2	-1	-2	-10	-13	
NOV	MPS - MNS	-24	-14	-7	-5	-3	3	5	3	3	4	3	4	5	6	1	0	0	1	-9	-6	-19		
DEC	MPS - MNS	-9	-7	-4	-5	1	4	3	3	3	2	3	2	1	2	2	-2	-1	3	7	-11	-10		
MEAN		-25	-25	-19	-11	-5	0	2	3	3	3	4	5	5	7	7	7	7	6	5	-1	-8	-16	

		Horizontal Intensity. Unit Gamma.																						
		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	1	4	4	3	4	4	4	3	4	6	6	9	16	26	28	34	27	21	12	4	2	2
FEB	MPS	0	0	0	0	2	2	4	3	4	6	9	15	19	32	37	29	19	22	13	13	4	2	0
MAR	MPS	1	0	1	1	1	3	2	3	5	8	15	22	27	36	42	45	41	28	20	8	2	1	0
APR	MPS	0	1	2	5	4	4	3	4	3	9	16	27	30	45	51	58	53	58	39	12	1	1	0
MAY	MPS	0	1	2	3	3	1	4	5	8	11	22	23	31	43	41	40	44	44	25	6	2	0	0
JUN	MPS	0	1	2	5	5	4	5	4	9	10	11	25	27	42	58	56	48	41	27	9	2	0	1
JUL	MPS	2	1	2	2	3	4	5	10	13	7	8	17	25	37	53	48	37	25	20	10	5	2	1
AUG	MPS	0	0	0	0	1	1	3	5	3	7	10	18	29	45	54	48	38	33	17	3	1	3	0
SEP	MPS	1	0	2	1	3	3	5	5	6	12	13	19	32	37	36	32	36	18	14	5	1	0	1
OCT	MPS	0	0	0	0	2	2	2	3	3	6	11	19	20	21	26	29	26	11	10	6	3	2	0
NOV	MPS	0	1	1	1	4	3	2	4	3	7	6	5	8	16	26	24	23	29	18	10	4	1	0
DEC	MPS	1	1	0	0	1	1	0	1	1	2	4	4	10	11	19	10	15	14	23	20	13	2	0
MEAN		1	1	1	2	3	3	3	4	5	7	11	17	29	32	39	37	35	29	21	10	4	1	0
JAN	MNS	55	61	45	18	13	9	4	2	1	2	1	1	0	0	0	0	0	2	10	29	57	76	78
FEB	MNS	109	68	72	42	22	7	2	1	2	1	1	1	0	0	0	0	4	2	17	49	41	110	125
MAR	MNS	112	105	79	50	26	22	9	3	2	2	2	0	0	1	0	0	0	9	21	38	61	96	122
APR	MNS	143	93	50	21	15	11	7	4	4	2	1	1	0	0	0	0	0	3	28	121	126	162	181
MAY	MNS	110	96	62	30	35	17	3	1	1	0	0	0	0	1	1	2	2	3	8	22	42	71	102
JUN	MNS	94	102	62	55	20	9	6	3	0	0	1	0	0	0	0	0	0	0	0	4	19	37	78

JUL MNS	59	56	24	9	5	2	1	1	1	1	0	2	0	0	0	1	0	0	0	4	19	36	64	58
AUG MNS	55	45	35	20	7	4	5	4	2	2	1	2	2	0	0	1	1	0	19	61	57	57	75	70
SEP MNS	95	92	68	33	21	23	13	6	3	1	1	1	1	1	1	1	1	5	12	36	84	125	131	108
OCT MNS	97	83	49	23	7	6	2	4	3	2	1	0	0	0	0	0	0	8	9	36	66	82	98	119
NOV MNS	77	52	19	9	6	2	3	2	1	1	1	0	0	0	0	0	0	3	7	31	91	102	91	85
DEC MNS	31	18	20	9	2	0	1	1	1	0	0	0	0	0	0	2	2	9	11	24	27	55	70	39
MEAN	78	71	49	27	15	9	5	3	2	1	1	1	0	0	0	1	1	3	9	30	57	80	100	99
JAN MPS - MNS	-54	-60	-42	-14	-10	-5	0	2	2	2	4	5	8	16	26	28	34	25	11	-17	-53	-74	-76	-69
FEB MPS - MNS	-109	-68	-72	-41	-20	-5	3	2	2	6	8	14	19	31	36	29	16	20	-4	-36	-37	-108	-125	-127
MAR MPS - MNS	-112	-105	-78	-49	-25	-19	-6	0	3	7	14	22	27	35	41	45	41	19	-1	-30	-59	-94	-121	-127
APR MPS - MNS	-143	-92	-47	-17	-11	-7	-4	0	0	7	15	26	30	45	51	58	53	58	36	-16	-120	-125	-162	-181
MAY MPS - MNS	-110	-95	-60	-27	-32	-16	0	4	7	11	22	22	31	43	41	38	42	41	17	-16	-40	-71	-102	-111
JUN MPS - MNS	-94	-102	-59	-50	-15	-5	-1	2	8	10	10	25	27	42	58	56	48	41	27	4	-17	-36	-77	-93
JUL MPS - MNS	-58	-55	-22	-7	-2	3	5	9	12	6	8	15	25	37	53	47	37	25	20	7	-14	-34	-63	-67
AUG MPS - MNS	-55	-45	-35	-20	-6	-3	-2	1	1	5	9	16	27	45	54	46	37	32	-2	-58	-56	-84	-75	-70
SEP MPS - MNS	-94	-91	-66	-32	-18	-20	-8	-1	2	11	12	18	31	36	35	31	35	12	2	-32	-83	-125	-131	-108
OCT MPS - MNS	-97	-83	-49	-23	-8	-6	0	-1	0	4	11	18	19	20	26	28	26	3	1	-30	-63	-80	-98	-119
NOV MPS - MNS	-77	-51	-18	-8	-3	1	-1	2	2	6	6	5	7	16	26	23	22	26	11	-21	-87	-101	-90	-85
DEC MPS - MNS	-30	-17	-20	-9	-1	1	-1	0	0	2	4	4	10	10	19	8	13	5	12	-4	-15	-53	-70	-39
MEAN	-88	-72	-47	-25	-12	-7	-1	2	3	6	10	16	22	31	39	36	34	24	11	-21	-54	-80	-99	-99

Vertical Intensity. Unit Gamma.

	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	8	8	0	1	0	1	1	1	5	5	7	5	8	11	13	14	11	8	7	6	6	14	10	4
FEB MPS	13	3	2	0	0	0	0	1	3	5	6	9	10	10	8	11	10	7	7	8	11	17	18	15
MAR MPS	24	12	2	0	1	0	1	3	5	8	9	10	12	13	20	18	14	12	9	6	14	9	19	9
APR MPS	21	23	2	3	6	7	8	10	14	17	16	16	19	25	24	19	17	14	13	8	30	26	47	23
MAY MPS	32	24	8	2	1	1	1	3	3	5	8	13	17	19	18	17	14	9	9	11	20	31	37	43
JUN MPS	32	15	40	3	36	1	3	4	6	8	10	11	12	11	16	18	12	16	7	3	5	9	26	27
JUL MPS	10	6	1	9	1	1	1	2	4	5	3	5	10	18	17	19	17	12	6	7	7	9	18	10
AUG MPS	7	3	5	1	2	2	3	6	7	8	7	12	18	19	17	17	12	8	7	15	4	16	17	12
SEP MPS	11	4	8	1	1	8	7	10	10	13	13	16	17	19	24	26	20	14	8	5	16	25	17	26
OCT MPS	19	9	1	1	0	0	1	6	10	11	10	11	13	10	12	18	13	9	4	4	4	6	14	14
NOV MPS	5	3	0	1	2	2	2	5	7	9	9	11	10	17	16	15	11	6	4	16	12	8	3	5
DEC MPS	3	3	3	2	1	2	2	3	4	5	5	7	9	14	11	11	10	9	10	13	14	19	13	0
MEAN	15	9	6	2	5	2	3	5	7	8	9	11	13	16	16	17	13	10	8	9	16	16	20	16
JAN MNS	25	20	22	22	12	15	12	3	1	0	0	0	0	1	3	9	9	10	15	15	15	18	17	19
FEB MNS	30	28	20	34	27	23	13	7	3	2	1	0	0	1	14	16	17	13	24	32	17	21	36	35
MAR MNS	22	18	27	37	27	24	17	7	4	2	3	2	1	1	1	5	9	12	16	12	13	22	28	33
APR MNS	33	32	26	23	18	10	6	2	1	1	0	1	7	3	0	3	2	7	13	22	16	14	15	19
MAY MNS	9	17	30	30	18	20	9	5	2	2	2	2	4	6	13	12	15	11	8	16	12	11	25	15
JUN MNS	16	21	8	30	1	16	9	5	1	0	2	2	3	3	2	12	7	7	10	6	5	8	11	17
JUL MNS	22	22	27	18	19	11	6	3	2	2	2	1	0	1	1	2	2	3	3	9	8	9	15	22
AUG MNS	19	14	-15	16	11	6	2	2	2	1	1	1	1	1	1	6	4	12	14	14	16	23	24	
SEP MNS	55	31	32	25	16	9	4	1	1	4	1	1	1	5	9	7	10	9	8	10	16	22	24	30
OCT MNS	28	23	36	36	24	17	6	2	0	0	0	0	1	2	4	0	2	8	10	20	17	28	27	33
NOV MNS	29	31	22	15	12	8	4	1	0	0	0	0	0	0	5	10	6	9	19	17	21	35	19	28
DEC MNS	15	13	10	14	9	4	2	0	0	0	0	0	0	1	1	4	10	17	15	13	6	15	33	29
MEAN	24	23	23	25	16	14	8	3	1	1	1	1	2	2	5	7	8	9	13	14	13	18	23	27
JAN MPS - MNS	-17	-13	-22	-20	-12	-14	-11	-2	4	5	7	5	8	10	10	4	3	-2	-7	-9	-9	-4	-7	-15
FEB MPS - MNS	-17	-25	-18	-34	-27	-23	-13	-5	0	3	5	9	10	9	-6	-5	-6	-6	-17	-24	-6	-3	-19	-19
MAR MPS - MNS	2	-6	-25	-37	-25	-24	-17	-4	2	5	6	8	11	12	19	13	5	0	-7	-6	1	-13	-10	-24
APR MPS - MNS	-12	-9	-24	-20	-12	-3	2	8	13	16	15	15	12	22	24	16	15	7	-1	-14	15	12	32	4
MAY MPS - MNS	22	8	-22	-28	-18	-19	-8	-2	2	3	6	12	13	13	5	5	-1	-2	1	-5	8	20	12	28
JUN MPS - MNS	16	-7	-33	-28	-36	-14	-6	-1	5	7	8	10	10	8	14	6	5	8	-3	-3	0	2	15	11
JUL MPS - MNS	-12	-16	-26	-9	-18	-11	-5	-1	2	3	1	4	10	17	16	18	15	9	3	-3	-1	0	3	-12
AUG MPS - MNS	-12	-11	-10	-14	-9	-4	1	4	5	6	6	10	17	17	15	16	5	5	-5	1	-11	1	-6	-12
SEP MPS - MNS	-24	-27	-24	-23	-15	-1	3	8	10	9	12	15	16	14	15	20	10	5	0	-5	-1	4	-8	-4
OCT MPS - MNS	-10	-14	-35	-35	-24	-17	-5	4	9	11	10	11	12	8	7	17	11	1	-6	-15	-13	-22	-14	-19
NOV MPS - MNS	-25	-28	-22	-14	-9	-7	-2	4	6	9	9	10	10	17	11	5	5	-3	-15	-1	-9	-27	-16	-23
DEC MPS - MNS	-12	-9	-8	-12	-8	-3	0	3	4	5	4	6	9	13	10	7	1	-8	-5	0	8	4	-19	-29
MEAN	-8	-13	-22	-23	-18	-12	-5	1	5	7	7	10	12	13	12	10	6	1	-5	-7	-2	-2	-3	-9

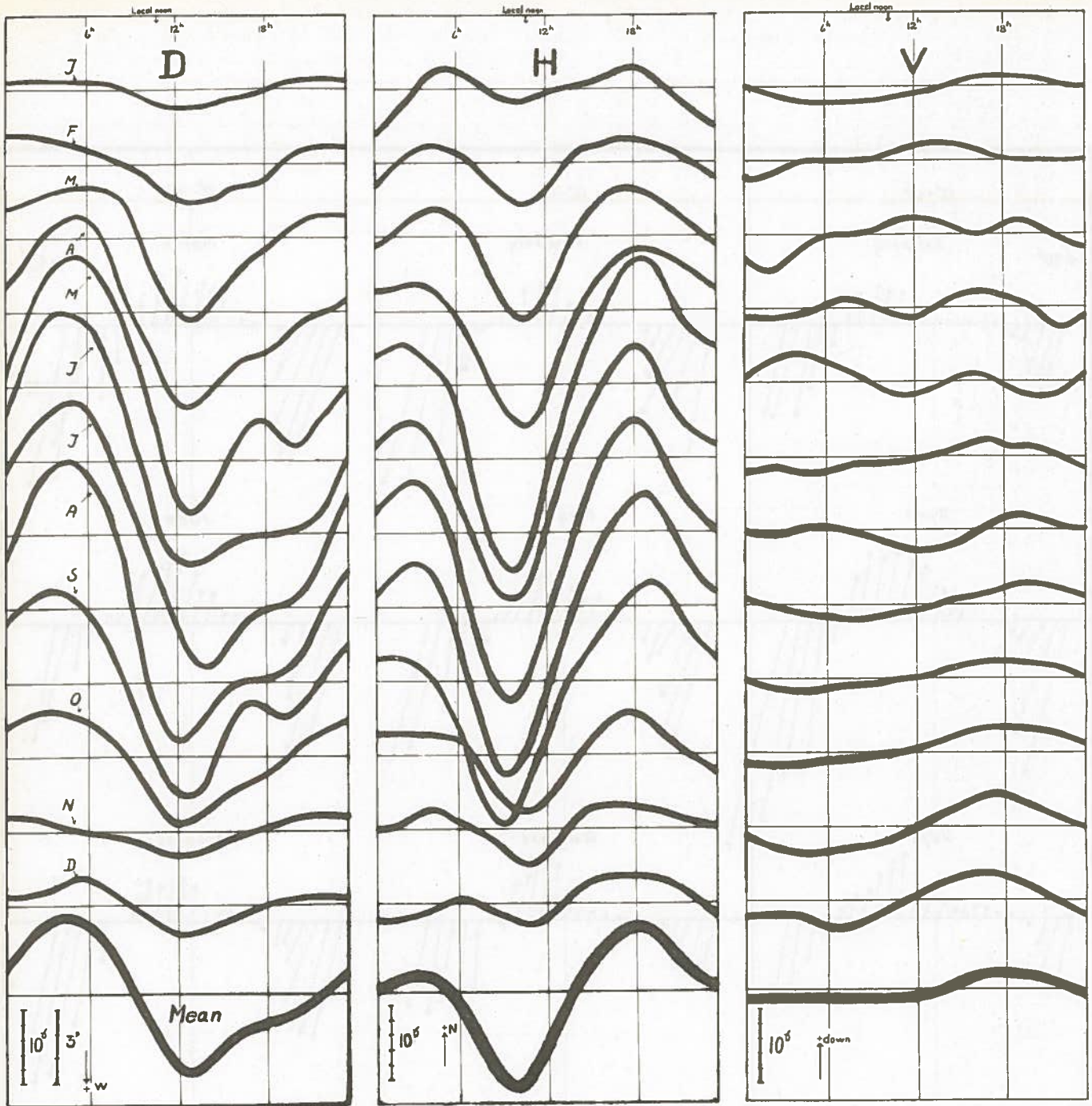


Fig. 1. The quiet Diurnal Variation, smoothed Values.

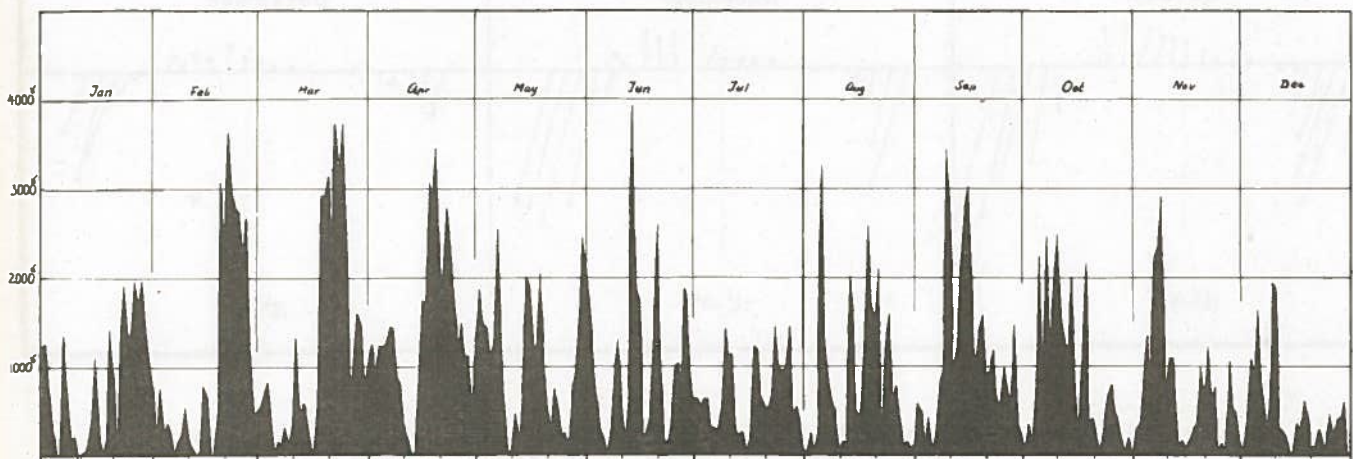


Fig. 2. The Diurnal Sum of the Absolute Storminess of H.

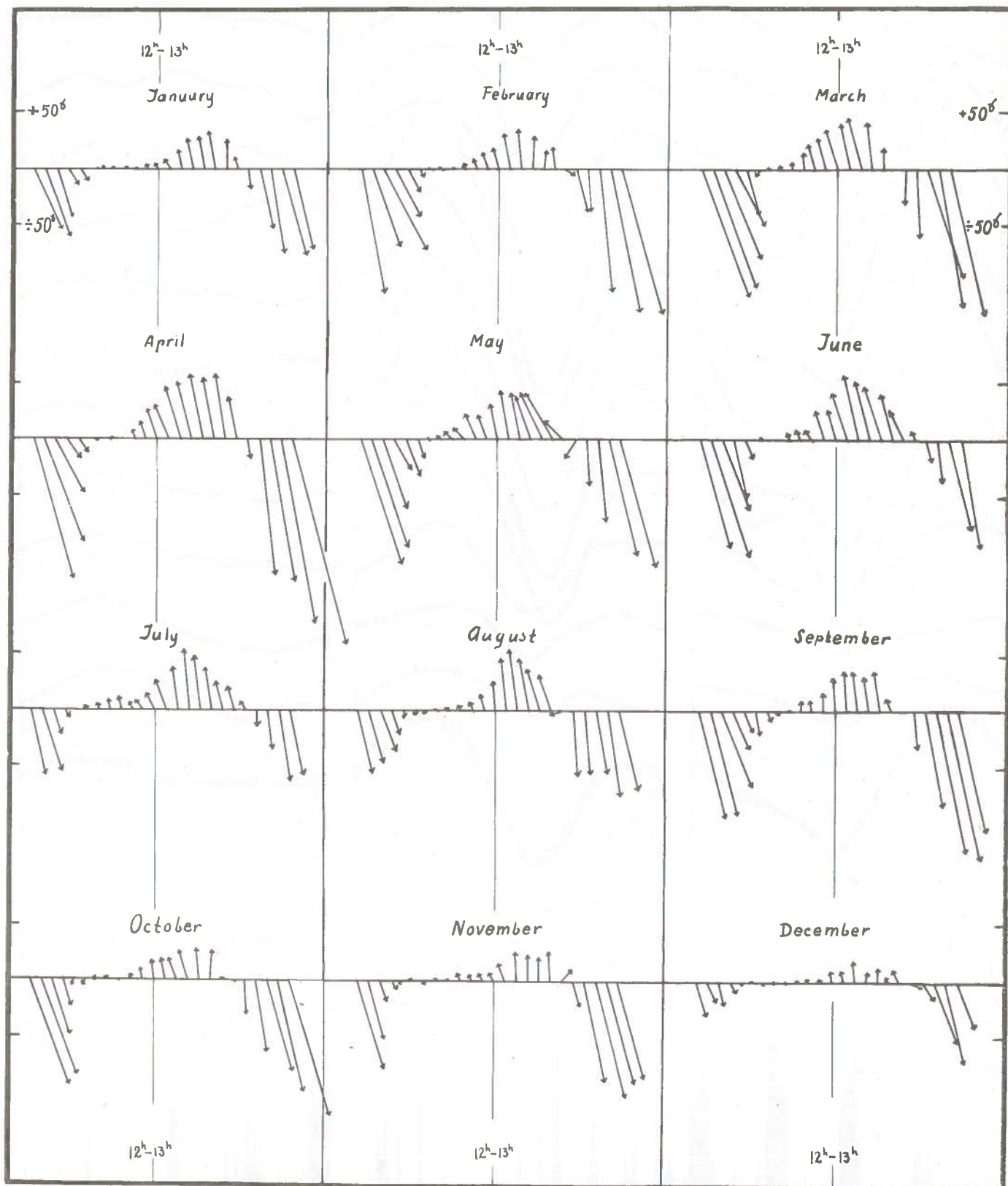


Fig. 3. Diagrams of the Monthly Mean Values (M) of the Storminess in the Horizontal Plane.

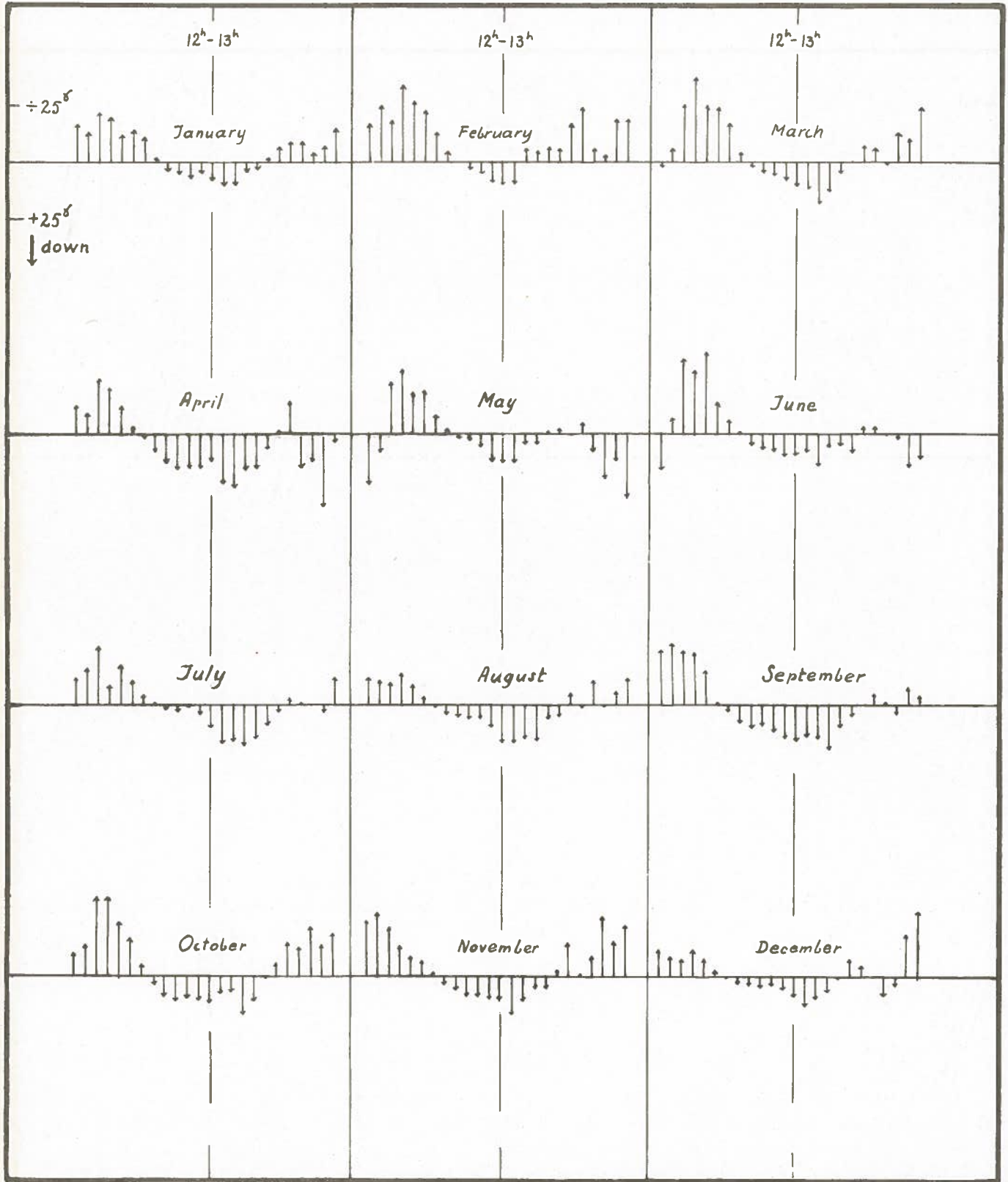


Fig. 4. Diagrams of the Monthly Mean Values (M) of the Storminess of the Vertical Intensity.

