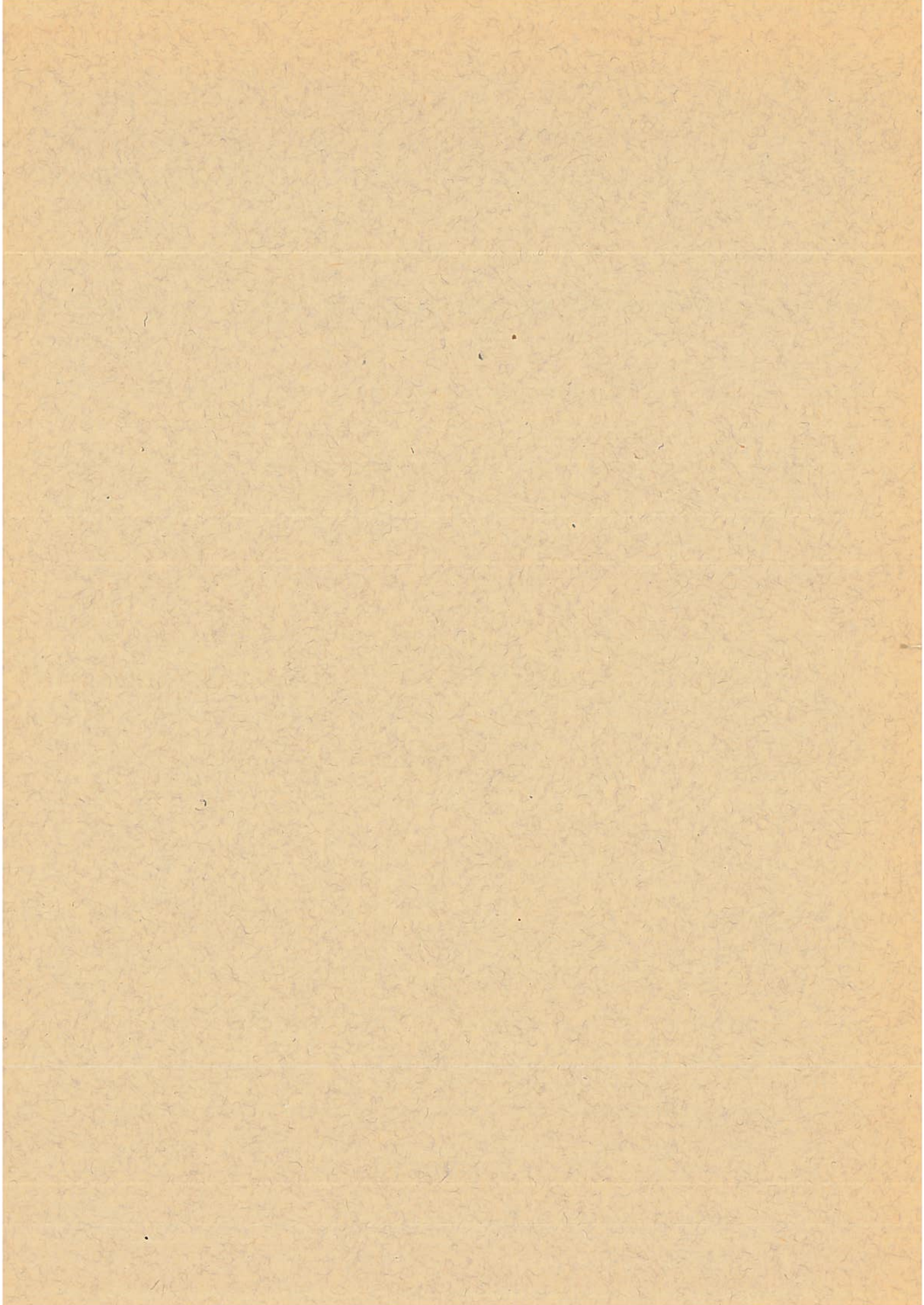


Publikasjoner fra
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK
Nr. 27

THE AURORAL OBSERVATORY AT TROMSØ
($\varphi = 69^{\circ} 39'.8$ N, $\lambda = 18^{\circ} 56'.9$ E. Gr.)
RESULTS OF MAGNETIC OBSERVATIONS
FOR THE YEAR 1945

BY
LEIV HARANG and E. TØNSBERG

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

RESULTS OF MAGNETIC OBSERVATIONS FOR THE YEAR 1945

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GENERAL REMARKS.

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

The observations were taken by E. TØNSBERG. The reading of the hourly values and the calculation work were performed by the students J. BARSTAD, L. DAHL, B. FLADLAND, Ø. MERLI, A. OMHOLT and J. THEISEN.

SCALE VALUES.

The following scale-values were determined:

D-curves:	1'.45 or	4.74 γ per mm
H-curves:	5.10 γ per mm
V-curves:	6.80 γ per mm

BASE-LINE VALUES.

In November 1944 we had, for security reasons, to evacuate the magnetic theodolite which was then absent for a year. Some measurements in Desember 1945 confirmed that the base-line values had not changed since the measurements of 1944.

The mean Inclination value for 1945 may be calculated to $770^{\circ} 29'.1$.

EXPLANATION OF THE TABLES

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

The second series of tables gives the hourly values of the storminess («average perturbing force» or «activity»). As to the definition of the storminess and the method for separating it, we refer to No. 2 and 4 in the presents series of publications. In the storminess tables the column headed M presents the diurnal means. The columns headed PS , NS and AS give the diurnal sum of the positive, negative and absolute storminess respectively. The column headed CH gives the magnetic character numbers. We consider the diurnal sum of the absolute storminess as the best expression for the magnetic activity during a day, and we will use that quantity for defining the character numbers. Only the strongest perturbed component, the Horizontal Intensity, is used in characterisation. Character number 0 comprises diurnal sum of absolute storminess (AS) up to 400γ , character number 1 from 400γ to 1200γ and character number 2 greater than 1200γ . 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. $D = W + \text{Tabular Quantities expressed in Units of Minutes}$

Table I: A large table with multiple columns and rows, containing numerical data. The table is oriented horizontally but appears to be a rotated version of the original document's content.

Table II: A large table with multiple columns and rows, containing numerical data. The table is oriented horizontally but appears to be a rotated version of the original document's content.

Table III: A large table with multiple columns and rows, containing numerical data. The table is oriented horizontally but appears to be a rotated version of the original document's content.

TABLES

Tromsø. Declination. D = 1° W + Tabular Quantities expressed in Tenths of Minutes.

Gr. M. T.

JANUARY 1945

HOURLY MEAN VALUES

Table for January 1945 showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and Moon (M) and Sun (S) positions.

FEBRUARY.

Table for February showing hourly mean values for declination. Columns include Day (1-28), hours (1-24), and Moon (M) and Sun (S) positions.

MARCH.

Table for March showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and Moon (M) and Sun (S) positions.

Tromsø.

Declination. Storminess. (+ W) Unit Gamma.

Gr. M. T.

JANUARY 1945.

Table for January 1945 showing magnetic observations (Declination, Storminess) and monthly means (M, PS, NS, AS) for each day from 1 to 31.

FEBRUARY.

Table for February showing magnetic observations (Declination, Storminess) and monthly means (M, PS, NS, AS) for each day from 1 to 28.

MARCH.

Table for March showing magnetic observations (Declination, Storminess) and monthly means (M, PS, NS, AS) for each day from 1 to 31.

Tromsø. Declination. D = 1° W + Tabular Quantities expressed in Tenths of Minutes. Gr. M. T.

Table for APRIL 1945. HOURLY MEAN VALUES. Columns: DAY, 1-25, M, R. Rows: 1-30, M, QM.

Table for MAY. HOURLY MEAN VALUES. Columns: DAY, 1-25, M, R. Rows: 1-31, M, QM.

Table for JUNE. HOURLY MEAN VALUES. Columns: DAY, 1-25, M, R. Rows: 1-30, M, QM.

Tromsø.

Declination. Storminess. (+ W) Unit Gamma.

Gr. M. T.

APRIL 1945.

HOURLY MEAN VALUES

Table for April 1945 showing hourly mean values for declination, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS.

MAY.

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

JUNE.

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

Tromsø. Declination. D = 1° W + Tabular Quantities expressed in Tenths of Minutes. Gr. M. T.

JULY 1945.

HOURLY MEAN VALUES

Table for July 1945 showing hourly mean values for days 1 to 31. Columns include Day, hours 1-24, M, and R. Values range from approximately 245 to 690.

AUGUST.

Table for August showing hourly mean values for days 1 to 31. Columns include Day, hours 1-24, M, and R. Values range from approximately 245 to 690.

SEPTEMBER.

Table for September showing hourly mean values for days 1 to 30. Columns include Day, hours 1-24, M, and R. Values range from approximately 245 to 690.

Tromsø.

Declination. Storminess. (+ W) Unit Gamma.

Gr. M. T.

JULY 1945

HOURLY MEAN VALUES

Table for July 1945 showing hourly mean values for declination, storminess, and unit gamma. Columns include Day (1-31), 24 hours of the day, and summary statistics (M, PS, NS, AS).

AUGUST.

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

SEPTEMBER.

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

Tromsø.

Declination. Storminess. (+ W) Unit Gamma.

Gr. M. T.

OCTOBER 1945.

HOURLY MEAN VALUES

Table for October 1945 showing hourly mean values for declination, storminess, and unit gamma. Columns include Day (1-31), M, PS, NS, AS, and summary rows for MFS and MNS.

NOVEMBER.

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

DECEMBER.

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

Tromsø. Declination. D = 1° W + Tabular Quantities expressed in Tenths of Minutes. Gr. M. T.

Table for October 1945 showing hourly mean values for declination. Columns include Day (1-31), hours (1-24), and values (M, R).

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

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

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

JANUARY 1945. HOURLY MEAN VALUES. Table with columns DAY, 1-23, M, R. Contains hourly data for January 1945.

FEBRUARY. Table with columns DAY, 1-23, M, R. Contains hourly data for February 1945.

MARCH. Table with columns DAY, 1-23, M, R. Contains hourly data for March 1945.

Tromsø.

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

Gr. M. T.

JANUARY 1945.

HOURLY MEAN VALUES

Table for January 1945 showing hourly mean values for magnetic intensity, storminess, and other parameters (K, PS, MS, AS, CH) from day 1 to 31.

FEBRUARY.

Table for February showing hourly mean values for magnetic intensity, storminess, and other parameters (K, PS, MS, AS, CH) from day 1 to 28.

MARCH.

Table for March showing hourly mean values for magnetic intensity, storminess, and other parameters (K, PS, MS, AS, CH) from day 1 to 31.

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

Table for APRIL 1945. HOURLY MEAN VALUES. Columns: DAY, 1-23, M, R. Rows: 1-30, M, QM.

Table for MAY. HOURLY MEAN VALUES. Columns: DAY, 1-23, M, R. Rows: 1-31, M, QM.

Table for JUNE. HOURLY MEAN VALUES. Columns: DAY, 1-23, M, R. Rows: 1-30, M, QM.

Tromsø.

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

Gr. M. T.

APRIL 1945.

HOURLY MEAN VALUES

Table for April 1945 showing magnetic observations. Columns include Day (1-30), Hourly values (1-24), M, PS, NS, AS, and CH. Summary rows for M, MPS, and MNS are provided at the bottom.

MAY.

Table for May 1945 showing magnetic observations. Columns include Day (1-31), Hourly values (1-24), M, PS, NS, AS, and CH. Summary rows for M, MPS, and MNS are provided at the bottom.

JUNES.

Table for June 1945 showing magnetic observations. Columns include Day (1-30), Hourly values (1-24), M, PS, NS, AS, and CH. Summary rows for M, MPS, and MNS are provided at the bottom.

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

Table with columns DAY, 1-25, M, R. Rows include daily data from July 1 to 31, and summary rows for M and CM.

Table with columns DAY, 1-25, M, R. Rows include daily data from August 1 to 31, and summary rows for M and CM.

Table with columns DAY, 1-25, M, R. Rows include daily data from September 1 to 30, and summary rows for M and CM.

Tromsø.

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

Gr. M. I.

JULY 1945.

HOURLY MEAN VALUES

Table with columns: DAY, 1-25, M, PS, NS, AS, CH. Rows 1-31 for July 1945.

AUGUST.

Table with columns: DAY, 1-25, M, PS, NS, AS, CH. Rows 1-31 for August 1945.

SEPTEMBER.

Table with columns: DAY, 1-25, M, PS, NS, AS, CH. Rows 1-30 for September 1945.

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

Table for OCTOBER 1945. HOURLY MEAN VALUES. Columns: DAY, 1-25, M, R. Rows: 1-31. Values range from -480 to 465.

Table for NOVEMBER. HOURLY MEAN VALUES. Columns: DAY, 1-25, M, R. Rows: 1-30. Values range from -44 to 735.

Table for DECEMBER. HOURLY MEAN VALUES. Columns: DAY, 1-25, M, R. Rows: 1-31. Values range from -59 to 580.

Tromsø.

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

Gr. M. T.

OCTOBER 1945.

HOURLY MEAN VALUES

Table for October 1945 showing hourly magnetic observations. Columns include Day (1-31), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS, CH). Summary values: M -90, PS 302, NS 694, AS 1286, CH 1.0.

NOVEMBER.

Table for November 1945 showing hourly magnetic observations. Columns include Day (1-30), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS, CH). Summary values: M -49, PS 150, NS 352, AS 502, CH 0.5.

DECEMBER.

Table for December 1945 showing hourly magnetic observations. Columns include Day (1-31), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS, CH). Summary values: M -69, PS 228, NS 608, AS 836, CH 0.9.

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

Gr. M. T.

JANUARY 1945.

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	-5	42	57	62	75	93	96	98	98	100	110	127	123	113	138	140	122	110	62	18	40	20	70	135	86	279
2	165	30	-30	40	62	68	83	95	102	105	105	115	120	122	130	126	123	120	102	62	55	53	58	85	89	265
3	98	95	92	90	78	65	88	93	91	100	115	122	112	127	125	122	103	108	50	-20	55	93	100	100	92	164
4	100	95	95	95	95	98	100	102	100	98	99	100	98	97	95	105	122	60	100	200	230	110	55	70	105	279
5	80	25	72	85	70	78	92	95	98	102	100	102	112	126	118	110	110	112	90	72	55	93	97	93	163	
6	92	88	75	68	77	75	85	89	88	92	103	100	112	118	107	100	96	95	93	93	85	95	30	16	87	150
7	65	79	73	98	95	89	85	83	85	87	90	93	92	95	95	90	86	92	98	92	80	20	36	-5	70	177
8	50	72	90	82	80	82	63	85	88	90	93	95	99	102	120	120	122	120	110	100	95	95	96	99	65	109
9	98	90	85	82	82	82	83	85	88	85	90	93	95	95	93	122	132	115	98	98	95	130	120	175	101	224
10	220	210	35	-18	0	60	110	120	112	98	107	112	138	132	125	120	85	65	82	90	90	67	90	99	491	
11	93	85	88	90	89	67	85	86	90	92	92	92	92	95	95	98	100	80	90	60	72	56	37	65	66	37
12	62	89	90	85	65	83	85	83	87	88	90	92	93	92	120	116	105	105	60	10	26	42	42	68	79	150
13	50	-20	10	-10	52	40	62	75	80	95	95	93	97	95	95	90	90	90	90	90	89	69	90	90	72	128
14	90	90	90	90	90	90	89	85	86	88	85	88	90	90	90	90	91	93	92	95	94	93	90	88	90	40
15	87	87	75	73	60	40	20	70	90	112	150	110	110	112	-10	-22	0	25	15	-2	118	160	65	95	56	272
16	160	90	15	28	47	74	70	68	92	103	106	95	100	92	98	103	105	110	102	107	72	18	210	225	95	408
17	140	68	65	18	52	78	92	100	100	102	107	100	115	118	125	138	92	30	-10	90	95	93	68	93	68	147
18	90	93	95	90	90	90	89	88	86	85	88	90	93	95	110	120	117	95	52	60	130	100	90	93	122	122
19	75	90	88	58	47	75	98	100	97	85	88	93	100	102	95	98	70	112	125	-30	-40	30	30	70	73	145
20	70	68	70	78	78	52	45	68	70	102	112	118	110	100	95	98	100	92	105	90	66	50	30	58	60	102
21	65	55	64	62	65	69	70	90	82	87	30	93	98	110	110	115	140	138	118	110	72	55	40	16	66	224
22	70	92	65	80	86	85	85	85	85	88	90	93	100	100	98	98	98	118	120	110	107	60	55	75	89	129
23	70	70	90	85	82	75	80	80	85	92	97	98	95	95	95	95	93	90	90	70	55	78	60	64	82	82
24	92	93	90	90	87	85	85	87	85	85	85	91	95	92	93	120	105	85	55	38	90	95	50	51	281	281
25	85	65	85	87	87	85	83	85	85	86	86	90	93	95	95	95	97	98	95	92	90	90	95	53	90	27
26	90	90	90	89	89	86	85	83	78	75	78	79	88	95	100	122	118	70	45	70	100	100	105	67	86	163
27	78	77	68	55	70	83	88	85	90	92	95	98	100	115	118	100	107	105	100	62	76	75	90	93	86	122
28	92	85	68	67	73	75	80	80	82	85	85	87	90	90	95	98	111	122	102	97	135	65	100	260	97	122
29	75	80	108	170	120	-100	0	58	40	82	100	100	80	100	70	115	15	-125	-90	62	40	60	105	220	62	496
30	120	15	65	88	60	30	45	71	68	95	98	100	115	120	125	120	100	116	115	102	95	60	55	40	65	368
31	72	83	65	85	85	85	88	90	90	90	93	95	102	100	95	98	100	100	100	98	98	78	42	75	59	75
M	90	77	71	73	75	70	78	86	87	92	98	99	101	102	101	104	100	94	86	76	78	78	78	94	87	191
QM	90	90	89	88	87	85	85	83	85	87	88	90	92	93	95	97	97	95	95	94	93	92	91	90	90	

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	78	82	82	85	75	82	90	95	98	97	95	94	97	95	95	96	93	105	108	105	95	60	73	62	91	45
2	82	85	86	85	85	85	85	85	83	85	87	95	120	110	0	20	120	110	50	0	25	65	125	135	61	300
3	50	5	50	63	92	80	88	93	95	93	99	98	95	102	103	132	128	100	100	102	100	95	80	63	89	184
4	60	80	65	79	71	75	80	99	86	90	90	80	89	86	88	85	97	110	108	90	86	126	90	89	172	172
5	37	22	65	76	57	12	-20	35	82	112	108	110	96	112	128	122	113	100	95	120	100	70	108	105	63	248
6	190	30	16	56	63	60	63	72	60	97	110	125	97	93	98	100	95	97	87	55	55	70	78	65	63	299
7	50	80	87	85	85	85	85	87	85	95	98	97	98	98	98	96	110	65	38	63	97	83	68	87	86	16
8	74	62	50	-27	30	82	91	86	110	118	115	120	122	117	110	120	105	60	92	90	92	60	110	210	92	456
9	70	-30	10	68	78	65	100	108	98	112	125	108	128	126	125	125	120	122	90	48	20	63	85	120	67	206
10	-5	60	68	72	62	75	78	80	85	112	127	105	100	85	92	95	92	92	102	74	62	60	73	52	81	182
11	-2	10	55	60	58	52	73	71	78	85	87	90	90	93	102	107	112	112	90	86	62	70	72	72	74	162
12	52	85	85	62	70	72	75	66	78	85	85	87	90	103	-02	100	106	115	100	92	65	53	35	62	83	109
13	72	90	83	85	84	85	82	65	81	85	90	100	108	118	105	96	90	87	92	70	92	76	62	89	66	86
14	90	90	90	90	85	85	85	87	85	85	85	91	95	92	93	120	105	85	55	38	90	95	95	51	150	67
15	135	270	125	15	-18	39	62	60	78	100	112	110	112	105	107	125	95	70	30	78	150	70	15	155	91	422
16	160	85	30	35	54	65	71	98	95	93	107	95	100	120	120	110	100	18	-30	10	105	122	95	43	79	456
17	48	65	72	64	62	64	68	84	92	90	95	105	100	115	105	90	103	48	30	-2	-35	25	95	98	70	272
18	70	5	50	78	50	82	85	83	87	88	90	95	90	105	117	148	133	120	102	98	100	102	110	45	90	216
19	40	12	22	26	40	58	65	72	71	76	80	82	95	86	95	102	100	100	97	97	95	62	35	70	143	143
20	45	62	60	62	62	61	64	83	64	85	65	80	90	91	95	102	115	120	104	96	100	90	60	62	86	68
21	60	85	67	82	82	80	78	79	80	82	85	85	90	90	90	92	90	90	96	100	65	62	55	67	83	66
22	60	84	82	90	82	84	62	65	90	85	85	100	107	110	115	118	102	90	65	75	100	80	65	84	89	292
23	-20	35	70	80	80	80	80	80	82	85	85	95	93	87	112	130	115	98	68	91	92	90	115	65	197	55
24	72	63	65	78	75	72	78	80	85	85	90	95	95	95	95	95	95	85	70	85	120	70	85	115	64	558
25	115	-40	-10	20	35	55	68	80	85	85	100	100	100	100	105	112	113	96	95	87	-70	0	60	80	66</	

Tromsø.

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

Gr. M. I.

HOURLY MEAN VALUES

JANUARY 1945.

Table for January 1945 showing magnetic observations. Columns include Day (1-31), 25 numbered columns for hourly values, and summary columns M, PS, NS, AS. Includes sub-tables for M, P, S, NS, AS at the bottom.

FEBRUARY.

Table for February 1945 showing magnetic observations. Columns include Day (1-28), 25 numbered columns for hourly values, and summary columns M, PS, NS, AS. Includes sub-tables for M, P, S, NS, AS at the bottom.

MARCH.

Table for March 1945 showing magnetic observations. Columns include Day (1-31), 25 numbered columns for hourly values, and summary columns M, PS, NS, AS. Includes sub-tables for M, P, S, NS, AS at the bottom.

Tromsø. Vertical Intensity. V = 50400 + Tabular Quantities expressed in Gamma. G. M. I.

Table for APRIL 1945. HOURLY MEAN VALUES. Columns: DAY (1-30), hours (1-24), M, R. Data includes vertical intensity values for each hour and summary statistics for M and R.

Table for MAY. HOURLY MEAN VALUES. Columns: DAY (1-31), hours (1-24), M, R. Data includes vertical intensity values for each hour and summary statistics for M and R.

Table for JUNE. HOURLY MEAN VALUES. Columns: DAY (1-30), hours (1-24), M, R. Data includes vertical intensity values for each hour and summary statistics for M and R.

Tromsø.

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

Gr. M. T.

APRIL 1945.

HOURLY MEAN VALUES

Table for April 1945 showing magnetic observations. Columns include DAY (1-30), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -130 to 470.

MAY

Table for May 1945 showing magnetic observations. Columns include DAY (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -130 to 691.

JUNE.

Table for June 1945 showing magnetic observations. Columns include DAY (1-30), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -54 to 683.

Tromsø. Vertical Intensity. V = 50400 + Tabular Quantities expressed in Gamma. Gr. M. T.

Table for July 1945 showing hourly mean values for vertical intensity. Columns include Day (1-31), hours (1-24), and monthly totals (M, R). Values range from approximately 80 to 320 Gamma.

Table for August showing hourly mean values for vertical intensity. Columns include Day (1-31), hours (1-24), and monthly totals (M, R). Values range from approximately 80 to 320 Gamma.

Table for September showing hourly mean values for vertical intensity. Columns include Day (1-30), hours (1-24), and monthly totals (M, R). Values range from approximately 80 to 320 Gamma.

Tromsø.

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

Gr. M. T.

JULY 1945.

HOURLY MEAN VALUES

Table for July 1945 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

AUGUST.

Table for August 1945 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

SEPTEMBER.

Table for September 1945 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 = 50400 + Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1945.

HOURLY MEAN VALUES

Table for October 1945 showing hourly mean values for vertical intensity. Columns include Day (1-31), hours (1-23), and summary rows M and QM.

NOVEMBER.

Table for November showing hourly mean values for vertical intensity. Columns include Day (1-30), hours (1-23), and summary rows M and QM.

DECEMBER.

Table for December showing hourly mean values for vertical intensity. Columns include Day (1-31), hours (1-23), and summary rows M and QM.

Tromsø.

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

Gr. M. T.

OCTOBER 1945.

HOURLY MEAN VALUES

Table for October 1945 showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, FS, NS, AS). Values range from -70 to 93.

NOVEMBER.

Table for November showing hourly mean values for vertical intensity and storminess. Columns include Day (1-30), hours (1-24), and summary statistics (M, FS, NS, AS). Values range from -105 to 105.

DECEMBER.

Table for December showing hourly mean values for vertical intensity and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, FS, NS, AS). Values range from -68 to 100.

Resuming Tables.

Diurnal Variation.

QUIET VALUES.

Tromsø.

Declination. Unit Gamma. + West.

1945	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
JAN	-4	-4	-3	-2	-2	-1	0	1	2	4	6	6	4	3	2	1	1	0	-1	-2	-2	-3	-4
FEB	-4	-2	-2	-3	-4	-4	-3	-2	-1	1	4	6	6	6	4	3	2	1	0	-1	-2	-4	-4
MAR	-4	-4	-4	-5	-5	-7	-7	-5	-2	3	8	15	11	8	6	5	3	1	0	-2	-4	-4	-2
APR	-6	-6	-8	-10	-13	-16	-16	-13	-8	2	12	17	15	12	10	7	4	2	2	2	2	2	0
MAY	-7	-7	-16	-19	-21	-21	-19	-14	-6	3	14	21	21	18	14	13	11	10	9	8	5	1	-2
JUN	-8	-10	-15	-23	-20	-19	-15	-10	-5	2	8	15	20	17	15	13	12	11	10	8	5	1	-2
JUL	-7	-13	-17	-22	-23	-23	-20	-13	-5	2	10	17	23	25	22	18	10	7	7	5	5	7	0
AUG	-7	-10	-14	-17	-19	-19	-15	-10	-2	5	10	15	20	16	13	10	8	7	6	5	3	0	-4
SEP	-8	-10	-13	-15	-15	-13	-10	-8	-3	2	9	15	17	20	17	14	9	7	4	2	0	-3	-6
OCT	-5	-6	-7	-8	-10	-10	-10	-8	-5	-1	4	10	12	14	12	9	7	5	4	2	0	-1	-3
NOV	0	-2	-3	-4	-5	-3	-2	-1	0	2	5	8	8	7	5	2	1	0	-1	-2	-3	-3	-3
DEC	1	0	-1	-1	-2	-2	-1	0	1	2	3	4	4	3	2	1	0	-1	-2	-2	-2	-2	-1
MEAN	-5	-6	-9	-11	-12	-11	-10	-7	-3	2	8	12	13	12	10	8	6	4	3	2	0	-1	-2

Horizontal Intensity. Unit Gamma.

JAN	-1	0	1	2	3	2	1	0	0	0	-1	-2	-1	0	1	1	2	1	1	0	-1	-1	-2
FEB	-1	0	1	2	3	3	2	1	0	-1	-2	-3	-2	-1	-1	0	0	0	1	2	3	2	0
MAR	2	4	4	4	4	2	-1	-4	-8	-11	-13	-11	-8	-4	-1	2	4	4	4	4	4	4	4
APR	2	4	6	6	4	2	-1	-6	-11	-14	-16	-13	-9	-6	-3	1	4	4	4	4	4	4	4
MAY	6	8	9	6	3	-2	-7	-10	-12	-14	-12	-9	-5	-2	1	3	5	6	6	5	4	3	3
JUN	4	7	9	7	4	-1	-6	-11	-14	-13	-11	-8	-4	-1	2	4	6	7	7	6	5	4	3
JUL	2	2	4	7	2	-3	-8	-13	-18	-23	-18	-13	-8	-3	2	5	9	12	17	17	12	10	7
AUG	3	6	9	8	7	5	-3	-9	-15	-19	-21	-15	-8	-4	-1	4	6	10	12	14	12	7	4
SEP	5	7	8	9	7	2	-3	-8	-15	-21	-18	-13	-8	-3	4	7	8	9	8	7	6	5	4
OCT	4	5	6	6	5	2	-3	-9	-16	-24	-21	-14	-6	-1	3	6	6	11	13	11	6	6	5
NOV	-2	0	1	1	2	3	2	1	0	-2	-4	-4	-1	0	1	2	1	1	1	0	-1	-1	-1
DEC	-2	0	1	3	4	4	4	3	2	1	0	-1	-2	-2	-2	-1	0	1	0	-1	-2	-3	
MEAN	2	4	5	5	4	2	-2	-5	-9	-12	-11	-9	-5	-2	1	3	4	5	6	6	5	3	

Vertical Intensity. Unit Gamma.

JAN	-1	-1	-2	-6	-4	-6	-6	-8	-6	-4	-3	-1	1	4	4	6	6	4	4	3	2	1	0
FEB	-5	-5	-3	-3	-5	-8	-8	-5	-3	0	3	5	8	8	8	7	6	5	5	3	2	0	-2
MAR	-6	-4	-4	-6	-6	-4	-3	-1	1	2	4	6	7	9	7	4	2	1	-1	-2	-3	-4	-5
APR	-1	-1	-1	-1	0	1	1	1	-1	-3	-3	-1	-1	1	2	4	4	2	1	-1	-1	-3	-4
MAY	1	1	1	0	-1	-1	-3	-4	-6	-3	-1	-1	0	1	1	2	3	3	3	2	2	1	1
JUN	-1	0	1	1	1	1	-1	-2	-4	-6	-4	-3	-2	-1	1	3	4	4	3	1	0	-1	-2
JUL	0	1	2	3	3	3	2	-1	-3	-4	-5	-3	-1	1	4	6	6	5	3	1	-1	-3	-4
AUG	-1	3	5	6	6	2	-3	-6	-7	-6	-5	-4	-3	0	5	9	9	5	2	0	-3	-6	-6
SEP	-5	-3	-1	0	-1	-2	-3	-4	-3	-2	0	3	7	10	12	13	6	2	-1	-3	-5	-6	-5
OCT	-5	-4	-2	0	1	1	0	-2	-2	0	1	3	3	4	5	4	3	3	2	1	0	-2	-4
NOV	-2	-1	0	0	-1	-2	-2	-3	-4	-4	-3	0	4	5	6	5	4	3	2	0	-2	-4	-3
DEC	-2	-2	-2	-2	-2	-1	0	0	0	1	2	3	5	5	3	2	0	-1	-2	-3	-3	-3	-3
MEAN	-3	-2	-1	-1	-1	-2	-3	-3	-3	-2	0	2	4	5	5	4	3	2	0	-1	-3	-4	

Monthly Means.

DECLINATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DIRECT VALUES $I = 1^{\circ}W + \dots$	49.0	49.0	47.5	47.0	48.5	47.0	46.0	45.5	43.0	43.0	42.0	41.0	45.7
QUIET VALUES $D_0 = 1^{\circ}W + \dots$	50.0	50.0	49.5	48.5	48.5	47.5	47.5	46.5	45.5	44.0	43.0	42.5	47.9
RANGE (UNIT MINUTES)	69	87	78	76	63	41	69	48	52	61	37	53	60
QUIET RANGES	3.0	3.0	6.1	11.0	13.0	13.0	15.0	12.0	10.5	7.2	4.0	1.6	8.3
STORMINESS, MEAN (UNIT γ)	-4	-3	-6	-4	0	-1	-5	-3	-4	-3	-3	-5	-3.5
DIURNAL SUM PS (UNIT γ)	76	88	124	133	173	109	120	107	72	125	70	109	109
NS	161	192	271	229	169	137	246	169	153	190	136	225	190
AS	237	280	395	362	342	246	367	276	225	315	206	333	299
HORIZONTAL INTENSITY													
DIRECT VALUES $H = 11200 + \dots$	5	3	-7	-2	7	6	-6	-2	-7	-14	-1	-5	-1
QUIET VALUES $H_0 = 11200 + \dots$	21	20	16	16	12	11	8	6	3	4	7	11	11
RANGE	477	434	584	536	450	257	434	302	301	445	152	367	397
QUIET RANGE	4	6	17	22	23	23	40	35	30	37	7	6	21
STORMINESS, MEAN (UNIT γ)	-16	-17	-23	-17	-5	-5	-13	-9	-11	-19	-9	-16	-13
DIURNAL SUM PS (UNIT γ)	179	203	304	381	470	331	383	280	329	392	150	228	310
NS	573	621	934	790	582	441	683	488	657	894	352	608	635
AS	752	824	1328	1171	1055	772	1066	768	987	1266	502	636	946
VERTICAL INTENSITY													
DIRECT VALUES $V = 50400 + \dots$	87	82	93	101	98	102	112	115	110	111	116	114	103
QUIET VALUES $V_0 = 50400 + \dots$	91	90	96	101	101	104	109	110	113	117	117	115	105
RANGE	191	233	307	260	240	148	231	197	208	312	285	460	256
QUIET RANGE	14	16	15	8	9	10	11	17	23	10	10	8	17
STORMINESS, MEAN (UNIT γ)	-4	-8	-4	0	-3	-2	2	6	-2	-6	-1	-1	-2
DIURNAL SUM PS (UNIT γ)	166	128	261	313	220	144	273	413	196	211	197	232	230
NS	256	317	354	327	290	188	217	219	258	322	219	250	266
AS	422	445	616	640	510	332	490	632	454	533	416	482	498

Resuming Tables.

Storminess.

Tromsø.

Declination. Unit Gamma. + West.

1945	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JAN MFS	1	0	0	0	1	1	3	4	3	1	1	3	5	4	4	5	5	9	7	5	4	5	2	3
FEB MFS	0	0	0	0	1	3	4	3	2	2	3	5	7	8	10	7	9	10	3	6	3	1	0	0
MAR MFS	2	0	1	0	1	1	3	2	2	2	4	6	10	12	10	12	19	13	8	7	5	2	1	
APR MFS	2	2	0	1	1	1	4	4	4	3	3	6	10	11	12	12	8	12	15	13	8	4	0	1
MAY MFS	0	0	1	1	3	4	5	6	5	5	4	6	10	14	18	12	14	16	17	12	11	5	3	1
JUN MFS	1	1	1	1	1	1	3	1	1	4	4	5	6	6	10	10	11	13	13	8	5	3	2	
JUL MFS	0	0	0	1	1	2	1	1	1	2	3	4	4	4	6	10	10	16	16	16	13	5	1	1
AUG MFS	0	0	0	0	0	1	1	2	2	3	4	7	6	8	7	8	9	11	12	10	9	4	1	1
SEP MFS	0	0	0	1	1	1	2	3	1	3	3	4	5	5	6	4	6	9	10	7	4	1	0	0
OCT MFS	2	0	0	7	2	3	3	3	3	6	7	8	10	8	15	12	11	8	9	7	7	1	0	1
NOV MFS	0	0	0	2	1	2	3	2	3	2	2	2	2	5	5	5	5	10	8	6	4	1	2	1
DEC MFS	0	0	0	0	1	3	5	4	3	2	2	3	4	8	8	11	12	9	10	8	4	5	3	0
MEAN	1	0	0	1	1	2	3	3	3	3	3	5	7	8	9	9	10	11	11	9	7	3	1	1
JAN MNS	20	15	16	9	5	4	2	1	1	2	2	1	0	0	1	2	4	2	4	10	11	13	17	23
FEB MNS	23	26	17	13	7	2	1	1	1	2	2	1	0	1	1	2	5	5	6	7	14	14	25	18
MAR MNS	26	46	31	22	14	6	3	4	3	3	1	1	1	0	1	1	2	6	6	7	10	16	29	31
APR MNS	30	28	29	23	11	4	3	3	2	3	1	1	1	0	1	1	1	2	1	1	9	19	27	31
MAY MNS	24	27	25	13	6	3	3	2	1	1	1	1	1	1	1	1	1	0	0	0	5	13	15	23
JUN MNS	21	24	18	13	5	4	5	7	5	5	2	1	1	0	0	1	1	0	0	2	4	10	11	
JUL MNS	26	32	28	31	17	11	10	9	10	5	3	2	2	3	3	3	1	0	0	0	1	6	23	24
AUG MNS	19	28	15	21	12	6	6	4	4	2	1	1	2	1	1	1	1	2	2	1	5	5	9	19
SEP MNS	23	24	16	9	2	2	2	2	3	1	1	1	0	1	1	2	1	1	2	4	9	15	18	23
OCT MNS	24	25	24	7	3	3	1	1	1	1	1	0	0	1	0	1	1	4	3	8	16	27	29	29
NOV MNS	21	17	14	14	4	1	1	1	0	0	1	0	1	0	1	1	1	2	3	4	10	13	15	18
DEC MNS	25	25	25	15	6	3	5	4	4	4	4	2	3	3	3	2	7	7	3	6	15	12	20	26
MEAN	24	26	22	15	8	4	4	3	3	2	2	1	1	1	1	2	2	3	3	4	9	13	20	23
JAN MFS + MNS	-20	-15	-16	-9	-4	-2	2	2	2	-1	-1	2	5	4	3	3	1	7	3	-5	-8	-7	-15	-20
FEB MFS + MNS	-23	-26	-17	-13	-6	1	2	2	1	0	1	4	7	7	10	5	5	6	-3	-1	-10	-13	-25	-17
MAR MFS + MNS	-24	-46	-30	-22	-14	-5	0	-1	-1	-2	3	5	9	12	9	11	16	7	2	0	-5	-15	-27	-29
APR MFS + MNS	-28	-27	-28	-22	-10	-2	2	1	1	-1	3	6	9	11	11	11	8	10	13	12	-1	-15	-26	-30
MAY MFS + MNS	-24	-27	-24	-12	-3	1	2	4	4	4	3	4	9	12	17	11	13	15	16	12	6	-8	-11	-22
JUN MFS + MNS	-20	-23	-17	-12	-4	-3	-4	-4	-3	2	3	5	6	6	6	9	9	11	13	12	5	1	-7	-9
JUL MFS + MNS	-26	-32	-28	-30	-16	-9	-9	-8	-2	-1	2	2	1	3	8	10	16	18	18	12	-2	-22	-23	
AUG MFS + MNS	-19	-28	-15	-21	-12	-5	-5	-3	-2	0	4	6	5	7	6	7	8	9	11	10	4	-1	-7	-18
SEP MFS + MNS	-23	-23	-16	-8	-1	0	0	1	-2	2	2	2	5	4	5	2	5	9	8	3	-6	-13	-17	-23
OCT MFS + MNS	-21	-24	-24	0	-1	0	2	2	2	5	6	8	10	7	14	12	10	4	6	-1	-9	-26	-29	
NOV MFS + MNS	-21	-17	-14	-12	-3	1	2	2	3	1	1	2	1	4	4	5	4	8	6	2	-6	-12	-13	-17
DEC MFS + MNS	-25	-25	-25	-15	-6	0	1	0	-2	-2	-3	1	1	5	5	9	5	3	6	2	-10	-7	-18	-25
MEAN	-23	-26	-21	-15	-7	-2	0	0	0	0	1	4	6	7	8	8	8	9	8	5	-2	-10	-16	-22

Horizontal Intensity. Unit Gamma.

1945	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
JAN MFS	1	0	1	1	1	3	5	5	4	4	7	9	12	10	15	15	21	20	16	8	8	7	3	1
FEB MFS	0	0	1	1	2	3	4	3	1	1	4	11	10	16	22	27	32	29	21	12	3	0	0	0
MAR MFS	0	2	2	1	3	5	5	4	6	9	20	26	30	45	69	60	57	31	15	9	3	1	0	0
APR MFS	2	1	1	0	3	3	1	1	2	8	19	26	38	49	49	52	49	39	24	11	4	1	0	1
MAY MFS	1	1	2	3	5	4	4	5	3	4	7	17	25	41	57	73	78	69	44	16	8	4	1	1
JUN MFS	1	1	1	1	2	4	4	6	6	5	12	17	23	30	34	45	47	41	31	20	10	3	0	1
JUL MFS	0	1	1	3	2	3	5	5	8	14	20	16	28	37	45	52	44	39	26	11	6	5	0	2
AUG MFS	1	0	0	0	1	0	1	2	3	4	7	7	18	28	36	43	52	39	24	13	3	1	1	0
SEP MFS	1	1	1	1	3	3	4	2	4	10	13	25	30	31	36	25	18	27	22	11	5	1	1	0
OCT MFS	1	2	1	2	2	3	6	5	6	15	26	30	30	31	41	41	33	19	13	8	3	0	0	0
NOV MFS	1	0	1	2	3	3	3	4	4	4	7	6	9	11	11	14	15	17	14	10	6	3	1	1
DEC MFS	1	1	1	2	1	0	4	3	2	2	4	6	17	35	31	34	33	21	12	14	5	2	1	1
MEAN	1	1	1	1	2	3	4	4	4	7	12	16	23	30	36	40	40	33	22	12	5	2	1	1
JAN MNS	74	58	55	32	24	8	3	3	3	2	2	1	1	1	1	4	4	15	12	23	40	66	67	73
FEB MNS	115	75	32	18	7	10	6	3	4	6	5	3	2	1	0	0	0	2	13	25	58	62	80	95
MAR MNS	129	107	55	30	21	9	7	5	3	2	1	2	1	1	1	3	2	9	32	49	84	102	135	144
APR MNS	120	85	79	42	11	12	13	9	7	5	6	3	2	1	0	0	0	2	4	17	74	76	113	119
MAY MNS	81	70	52	31	16	10	4	5	6	5	4	2	1	1	0	0	0	0	1	11	37	77	66	87
JUN MNS	73	66	44	43	25	15	9	6	6	8	3	3	2	1	1	0	1	1	2	5	16	33	42	53

JUL	MNS	88	80	70	65	43	31	18	11	4	4	2	4	2	0	0	0	3	2	2	5	23	70	96	89
AUG	MNS	63	52	55	53	34	13	5	7	3	3	2	2	2	1	0	0	0	0	1	9	17	38	51	77
SEP	MNS	78	62	35	20	10	1	1	4	4	2	5	1	1	1	2	1	12	15	14	18	40	57	77	84
OCT	MNS	92	67	43	36	10	3	1	1	1	0	1	1	2	3	2	2	6	12	28	32	78	113	120	107
NOV	MNS	50	31	22	20	16	11	2	1	2	2	1	3	1	1	1	0	0	3	6	21	32	36	35	48
DEC	MNS	69	67	49	36	32	25	19	13	10	5	4	2	2	3	1	1	1	3	9	11	39	57	79	77
MEAN		86	68	49	36	21	12	7	6	4	4	3	2	2	1	1	1	3	5	10	19	45	64	63	88
JAN	MPS + MNS	-73	-59	-54	-32	-23	-5	2	2	2	1	6	8	10	9	14	11	16	5	4	-18	-32	-59	-64	-71
FEB	MPS + MNS	-115	-76	-31	-17	-5	-7	-3	0	-3	-5	-1	8	8	15	22	27	32	27	8	-17	-55	-61	-80	-95
MAR	MPS + MNS	-129	-105	-53	-29	-18	-5	-2	-1	3	7	19	25	29	44	58	57	55	22	-18	-40	-81	-101	-135	-144
APR	MPS + MNS	-118	-85	-78	-42	-8	-9	-12	-8	-5	4	13	22	37	49	49	52	49	38	20	-6	-70	-76	-113	-118
MAY	MPS + MNS	-80	-69	-50	-28	-11	-6	0	0	-3	0	4	13	23	40	57	72	78	69	43	5	-26	-72	-64	-85
JUN	MPS + MNS	-72	-65	-43	-42	-23	-11	-4	0	0	-3	9	14	21	26	33	45	46	40	29	15	-5	-30	-42	-53
JUL	MPS + MNS	-88	-79	-69	-62	-41	-28	-14	-6	4	10	18	13	26	37	45	52	41	37	24	6	-17	-65	-94	-67
AUG	MPS + MNS	-62	-51	-54	-53	-33	-13	-3	-4	-1	1	4	5	16	27	36	43	52	39	23	4	-14	-37	-50	-77
SEP	MPS + MNS	-76	-61	-35	-19	-7	2	3	-1	0	8	8	24	29	29	33	24	7	12	8	-7	-35	-57	-77	-63
OCT	MPS + MNS	-90	-65	-41	-36	-8	0	5	4	5	14	25	25	29	39	39	27	8	-15	-24	-75	-113	-120	-107	
NOV	MPS + MNS	-49	-31	-21	-18	-14	-8	1	3	2	3	6	3	8	10	11	14	15	20	8	-11	-24	-35	-52	-48
DEC	MPS + MNS	-69	-67	-48	-34	-32	-24	-15	-10	-9	-6	0	4	18	41	30	32	31	16	3	3	-38	-55	-78	-76
MEAN		-85	-66	-48	-34	-18	-9	-3	-2	0	3	9	14	21	30	36	39	38	26	12	-8	-39	-63	-82	-87

Vertical Intensity. Unit Gamma.

1945		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	12	4	1	3	1	0	2	3	3	5	8	8	8	8	10	11	11	11	9	6	7	6	6	21
FEB	MPS	7	7	2	1	0	0	1	1	2	4	6	5	4	7	8	13	16	7	2	6	3	2	6	17
MAR	MPS	30	11	4	2	1	1	1	1	3	5	4	6	10	13	12	15	17	10	6	5	23	14	35	34
APR	MPS	15	16	7	1	1	1	1	3	4	5	6	9	13	19	19	23	18	13	8	7	34	32	48	23
MAY	MPS	9	13	0	0	0	1	2	4	6	5	6	10	9	19	23	22	15	11	6	4	12	19	16	9
JUN	MPS	5	5	0	0	0	0	1	2	3	5	6	12	10	15	18	15	15	11	7	4	5	5	3	7
JUL	MPS	31	16	15	5	1	1	1	3	6	11	8	10	12	19	20	18	12	10	7	5	5	19	11	27
AUG	MPS	17	15	18	7	1	2	3	6	9	13	18	14	15	16	18	15	13	13	12	6	9	12	16	15
SEP	MPS	20	3	1	0	1	2	2	4	7	5	7	5	4	6	7	6	11	6	10	17	26	25	22	
OCT	MPS	16	10	10	3	1	0	1	2	5	6	9	11	15	17	15	14	6	4	5	21	17	20	20	
NOV	MPS	6	2	5	1	1	2	4	6	8	8	10	10	9	8	10	8	6	6	13	15	7	6	10	
DEC	MPS	11	10	3	2	2	2	3	5	8	8	9	13	15	12	13	13	12	9	7	10	20	30	20	
MEAN		15	10	6	2	1	1	1	3	5	7	8	10	10	13	14	14	13	10	7	8	13	15	19	19
JAN	MNS	13	17	19	18	13	16	9	3	3	1	0	0	0	4	4	7	12	14	24	25	20	19	13	
FEB	MNS	26	34	24	20	18	11	9	6	3	1	1	0	1	1	4	6	6	15	25	23	33	21	16	14
MAR	MNS	21	26	23	18	19	15	10	4	3	3	4	6	2	9	16	26	23	23	26	13	16	18	14	20
APR	MNS	16	20	29	37	24	15	8	4	4	4	5	5	19	21	15	9	7	12	14	8	8	15	6	13
MAY	MNS	22	28	35	34	25	17	8	5	4	3	2	2	5	3	3	6	9	10	18	8	11	16	17	
JUN	MNS	11	22	25	26	23	14	7	4	3	1	1	1	1	2	1	2	3	2	4	4	9	11	16	12
JUL	MNS	5	19	19	23	20	19	16	8	5	3	2	1	2	1	0	6	4	5	9	10	14	11	9	9
AUG	MNS	15	15	16	13	18	13	5	0	0	0	0	1	2	1	1	2	2	7	8	7	8	6	5	8
SEP	MNS	20	20	28	23	16	9	2	1	0	1	2	5	8	7	14	15	18	8	13	9	12	10	12	21
OCT	MNS	36	43	24	19	27	14	7	2	0	0	2	3	6	14	23	14	15	7	13	14	18	14	30	43
NOV	MNS	17	16	13	17	16	10	3	5	0	0	0	1	1	0	0	0	2	10	15	9	16	16	12	16
DEC	MNS	18	15	11	15	12	14	7	4	1	3	5	7	5	6	9	13	6	17	24	17	19	10	9	16
MEAN		18	23	21	22	20	14	8	4	2	2	2	2	4	6	8	8	8	11	13	13	15	13	14	17
JAN	MPS + MNS	-1	-13	-18	-15	-12	-15	-7	0	0	4	8	7	8	8	6	7	3	-1	-5	-16	-16	-14	-11	8
FEB	MPS + MNS	-19	-27	-22	-19	-18	-11	-8	-5	0	3	5	4	3	6	5	7	10	-6	-23	-17	-30	-19	-10	4
MAR	MPS + MNS	-9	-15	-18	-15	-18	-14	-9	-2	0	2	0	-1	8	3	-4	-11	-6	-13	-20	-6	6	-4	21	14
APR	MPS + MNS	0	-5	-22	-36	-23	-14	-7	-1	0	1	1	4	-7	-3	4	14	11	1	-6	0	25	17	42	9
MAY	MPS + MNS	-13	-15	-35	-33	-25	-16	-6	-1	2	1	4	8	8	15	20	19	9	2	-2	-8	4	8	0	-8
JUN	MPS + MNS	-6	-17	-25	-25	-23	-14	-6	-2	1	4	5	10	9	13	17	14	13	8	2	0	-4	-6	-13	-4
JUL	MPS + MNS	26	-3	-4	-18	-19	-18	-14	-5	1	7	6	10	10	18	19	12	8	5	-2	-5	-9	7	2	18
AUG	MPS + MNS	2	0	2	-6	-17	-11	-2	6	9	13	16	14	14	15	18	13	11	6	4	0	1	4	12	8
SEP	MPS + MNS	0	-16	-27	-23	-15	-7	0	4	6	3	2	-3	-3	-8	-9	0	-4	1	4	15	13	2		
OCT	MPS + MNS	-21	-33	-14	-16	-25	-14	-6	0	5	5	7	8	9	3	-8	0	-8	-3	-8	6	-2	6	-10	-23
NOV	MPS + MNS	-11	-14	-8	-15	-15	-9	0	0	5	7	8	9	10	9	8	10	8	-4	-6	4	-1	-6	-4	-6
DEC	MPS + MNS	-7	-5	-7	-13	-10	-13	-5	-1	4	5	3	1	9	9	3	0	7	-5	-15	-10	-9	9	21	2
MEAN		-3	-13	-16	-19	-18	-13	-7	-1	3	5	6	7	7	7	6	6	6	-1	-6	-5	-2	2	5	2

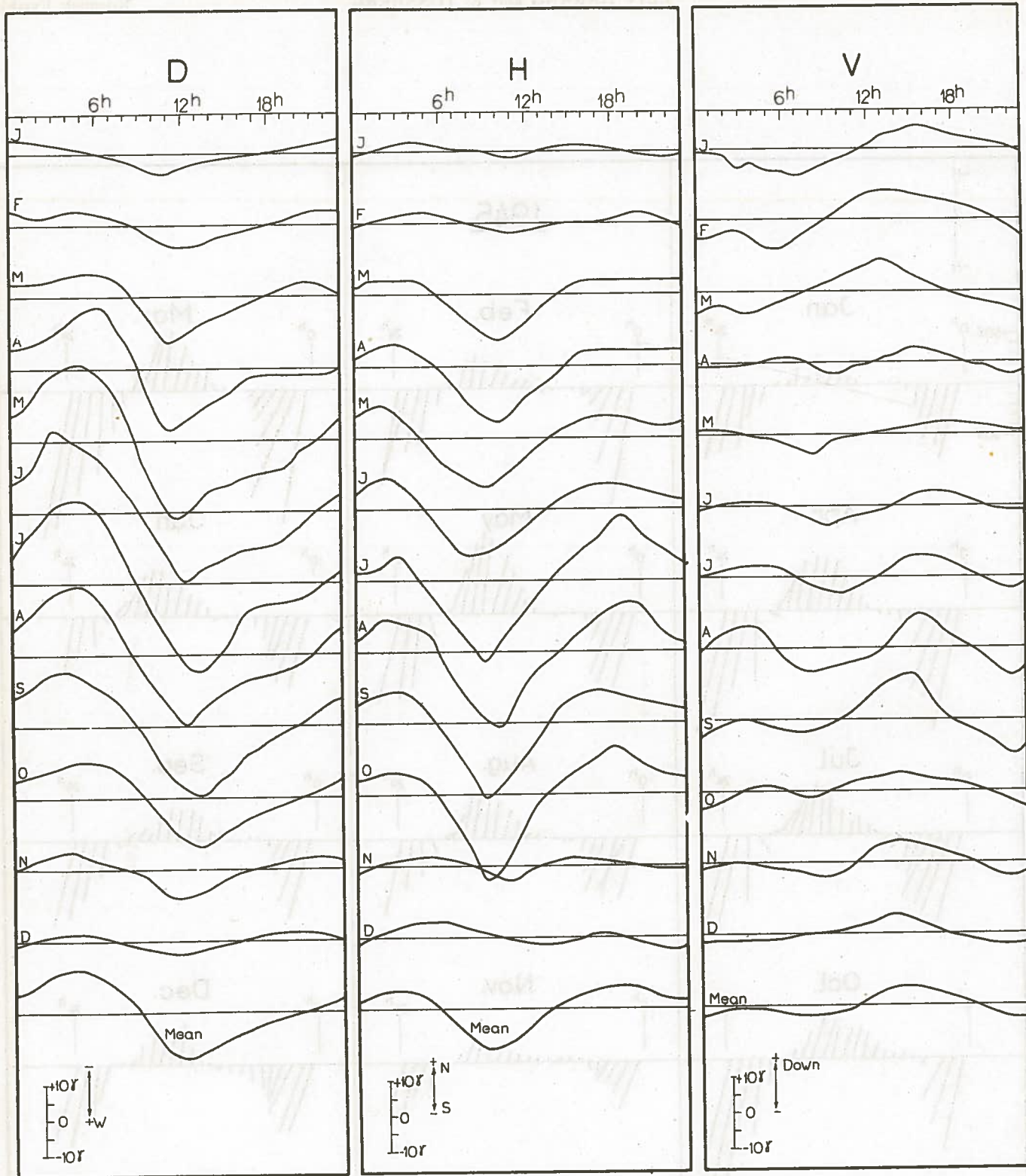
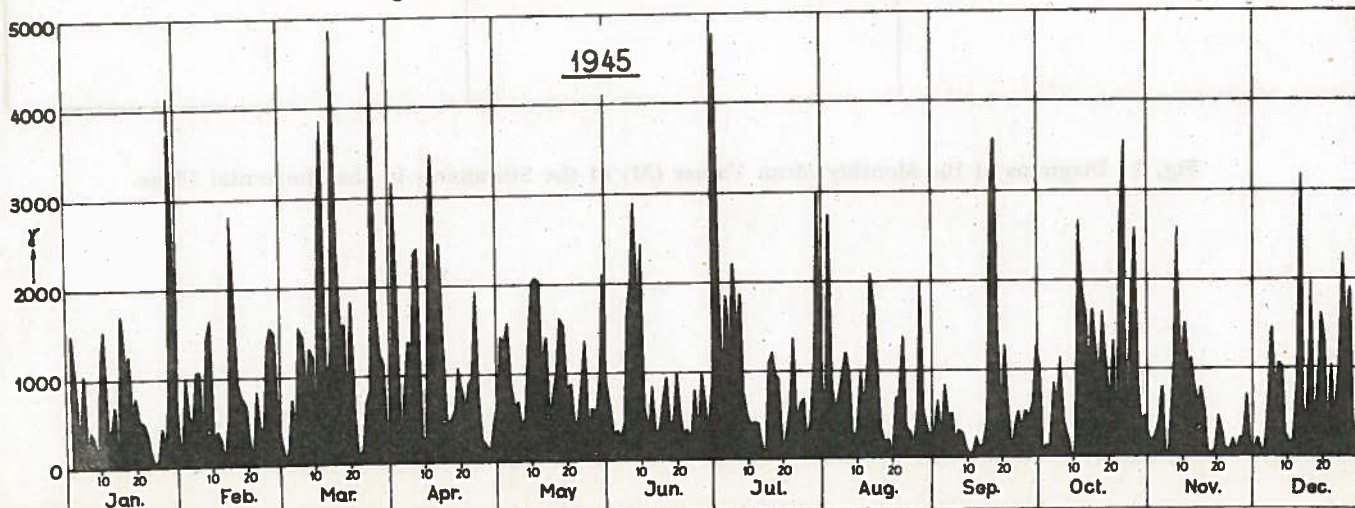


Fig. 1. The Quiet Diurnal Variation, smoothed Values.



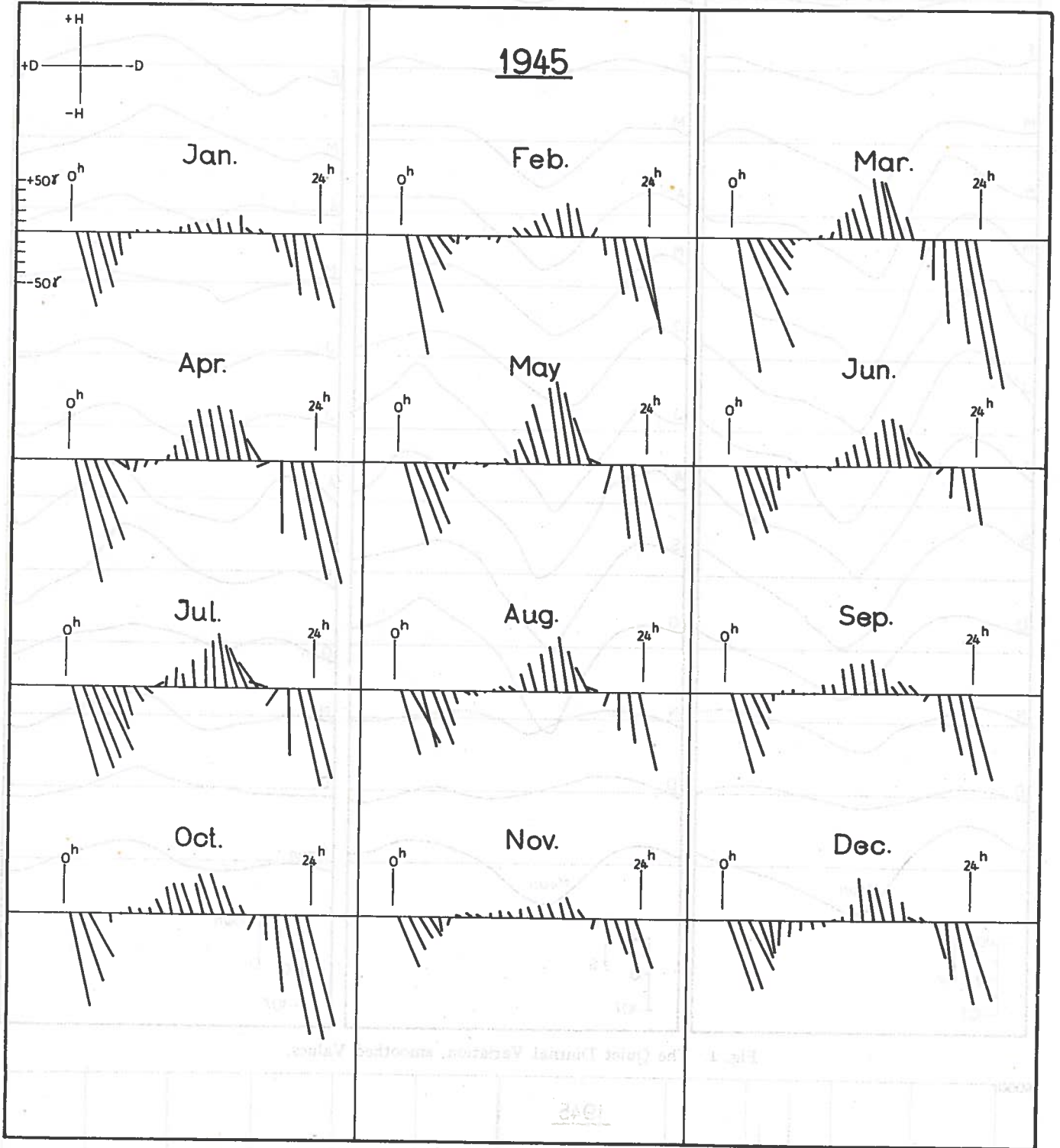


Fig. 3. Diagrams of the Monthly Mean Values (M) of the Storminess in the Horizontal Plane.

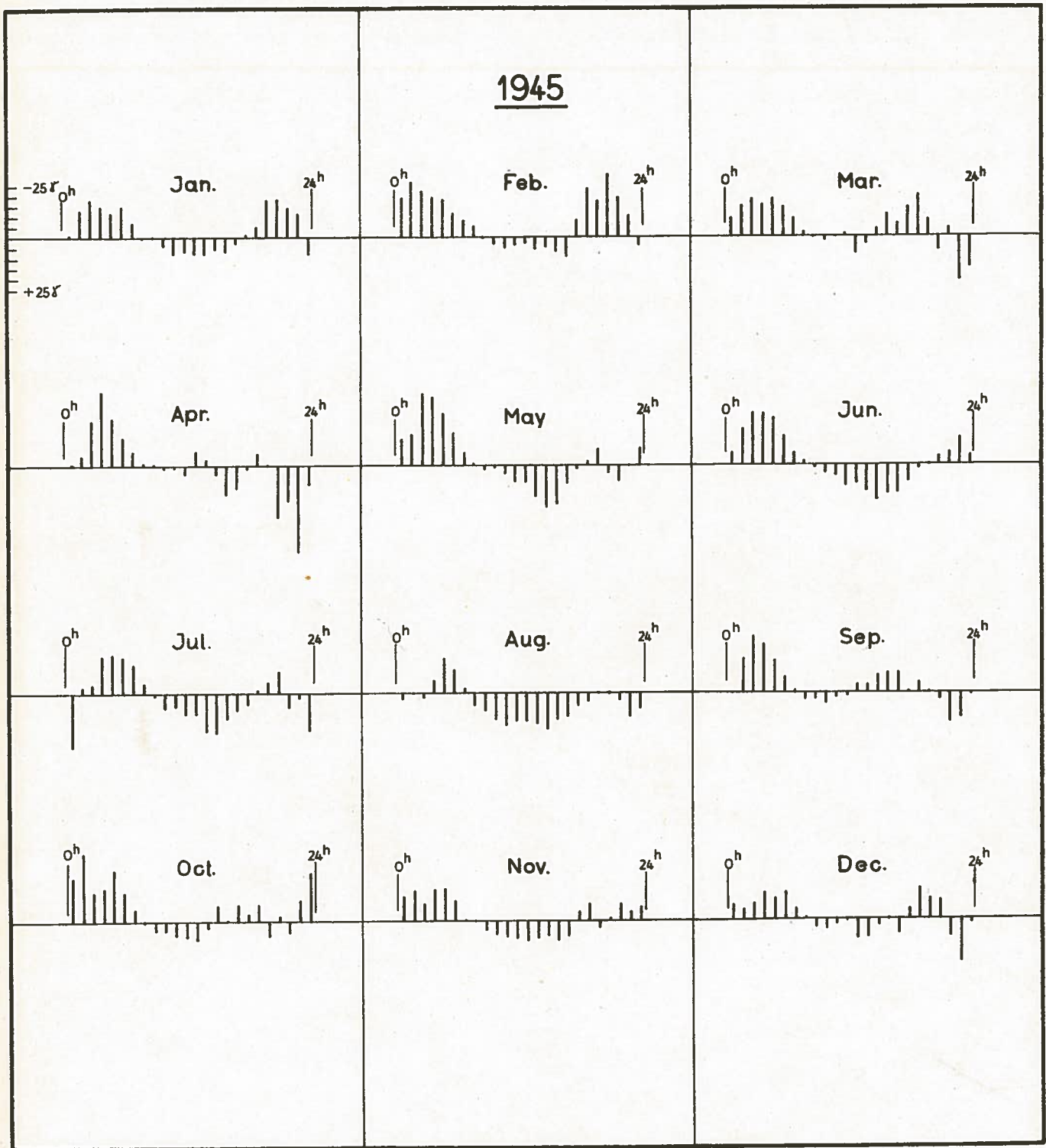


Fig. 4. Diagrams of the Monthly Mean Values (M) of the Storminess of the Vertical Intensity.

