

Publikasjoner fra  
DET NORSKE INSTITUTT FOR KOSMISK FYSIKK  
Nr. 23

RESULTS FROM  
THE MAGNETIC STATION AT DOMBÅS  
1940 and 1941

( $\varphi = 62^{\circ} 04'.7$  N,  $\lambda = 9^{\circ} 05'.8$  E.)

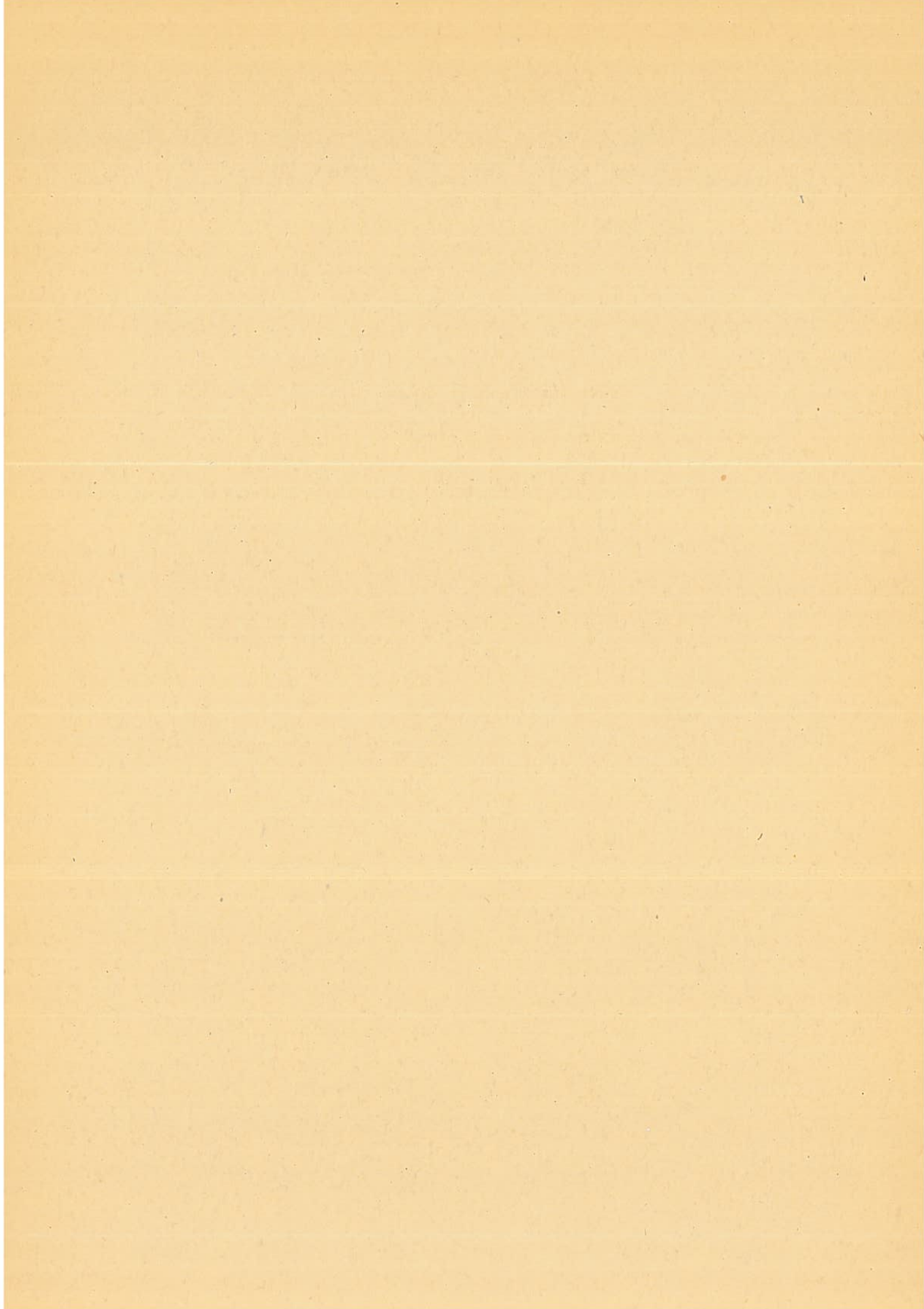
BY

B. TRUMPY and K. F. WASSERFALL

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1944

A.S. JOHN GRIEGS BOKTRYKKERI, BERGEN



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INTRODUCTION.

The Magnetic Station at Dombås commenced operations in 1916 and the material collected between the years 1916—1939 has been worked up at *Det Magnetiske Byrå* in Bergen. Results for the interval 1916—33 were published in No. 9, those for 1934—36, 1937—38 and 1939 in No. 13, No. 18 and No. 20 of the present series of publication, respectively. In No. 10 and No. 16, of the same series, we have dealt with certain sides of the magnetic variation at Dombås Observatory and finally the data, collected at Dombås, have been utilized in a series of other papers, published in other magnetic publications according to the list, printed on the cover of this paper.

Referring to what has been stated in the introduction of the preceding year books, only monthly hour-means for storminess, 7-day normals for quiet diurnal variation and daily data for positive and negative storminess, besides the sum of these two quantities, were printed for the years 1916—38. For 1939 and the last 6 months of 1938 we have also printed additional tables, containing hourly values for D, H and V and corresponding hour-tables for storminess. The present paper contains resultant tables and graphs for the two years 1940 and 1941, arranged in more or less the same way as before.

In this paper we have been obliged to leave out the hour-tables for vertical intensity, because examination has shown, that the temperature coefficient, based on determination of the test data, observed 12. of July, 1933 (cp. No. 9), has changed its value. When this change took place, we do not know, but it must have happened before July, 1938. As the v-instrument has a compensation arrangement, we may probably explain the change by supposing that this has accidentally been touched.

The base-line value for the reduction of the v-readings were, as mentioned before, based on BARLINDHAUG'S central-observation of August the 9., 1939, but according to a new control-observation in January, 1941, we must suppose that Barlindhaug's result for 1939 is too low.

In consequence of what is stated above, we must presume that the hour-tables for  $V$  for 1938 and 1939 must be treated with reserve, while the corresponding hour-tables for storminess in  $V$  are reliable. For further information regarding Vertical Intensity we refer to page 8\*.

At the back of the paper we have added a new set of tables, namely those giving data for the »Three-Hour-Range«, for the three years 1939—41, expressed by the international *Index K*.

Astronomer SIGURD EINBU is still in charge of the station, where the conditions are the same as before.

#### THE SCALE VALUES AND THE TEMPERATURE COEFFICIENTS OF THE VARIOMETERS.

Deflection experiments were, as before, taken once a month. In Table I we give the results calculated by aid of the observed data, and in Table II we state the values adopted for the final reduction.

Table I.

Year	Month	$\epsilon_d$	$\epsilon_h$	$\epsilon_v$
1940	Jan. 5	7.0	5.8	(6.6)
»	Feb. 6	7.0	5.8	5.8
»	Mar. 6	7.0	5.6	5.6
»	Apr. 4	7.1	5.9	6.0
»	Jun. 1	7.1	5.7	5.6
»	Jul. 2	7.1	5.6	5.6
»	Aug. 17	7.0	5.7	5.9
»	Sept. 1	7.1	5.8	5.9
»	Oct. 1	7.1	5.6	5.9
»	Nov. 1	7.1	5.9	5.9
»	Dec. 7	7.1	5.9	(6.7)
1941	Jan. 8	7.1	5.6	5.7
»	Apr. 5	7.0	5.9	6.3
»	May 2	7.1	5.8	6.1
»	Jun. 5	7.1	5.6	5.9
»	Jul. 7	7.1	5.8	6.3
»	Sep. 5	7.1	6.2	(6.6)
»	Oct. 2	7.1	5.8	(7.0)
»	Dec. 3	7.1	5.6	(7.4)
Mean .....		7.1	5.8	5.9

Table II.

$\omega'$	$\epsilon_d$	$\epsilon_h$	$\epsilon_v$	$\tau_h$	$\tau_v$
1.73	7.1	5.8	5.9	5.38	?

ABSOLUTE OBSERVATIONS AND BASE LINE VALUES.

Regular observations of *D*, *H* and *I* were made from 4 to 10 times a month. The general observer is S. EINBU, while the control observations during the interval November the 5., 1941, to January the 15., 1942, were taken by E. KJÆR.

*Base-line values for the d-curve:* As station instrument for the absolute observations for declination we have also for 1940 and 1941 made use of the old *Bamberg*-declino-

Table III.

Year	Date	Time	Observ. $D_w$			d	$B_d$	Numb of obs.	Instrument	Ob- serv.
			$\alpha$	$\gamma$	$\gamma$					
1940	Jan. 10	h 10 19	7 13.8	1748	652	C. G. S. 0.01096	2	Bamberg	E. E.	
1940	Feb. 12	12 26	7 13.8	1747	666	0.01081	4	Bamberg	S. E.	
»	Mar. 18	12 24	12.4	1742	637	1105	4	»	»	
»	Apr. 15	12 37	12.1	1751	663	1088	5	»	»	
»	May 13	11 32	14.7	1758	670	1088	4	»	»	
»	Jun. 14	13 14	11.5	1729	644	1085	5	»	»	
»	Jul. 18	13 15	11.1	1737	645	1096	4	»	»	
»	Aug. 18	14 00	8 34.0	1704	655	1049	4	»	»	
»	Sep. 17	13 42	38.0	1740	649	1099	4	»	»	
»	Oct. 9	10 54	52.0	1736	630	1106	3	»	»	
1940	Jun. 24	12 40	7 12.3	1745	651	0.01094	37	Bamberg	S. E.	
1940	Oct. 16	9 42	7 03.5	1700	627	0.01082	2	Bamberg	S. E.	
»	Nov. 17	10 39	04.7	1714	644	1070	4	»	»	
»	Dec. 16	11 45	07.6	1722	624	1098	3	»	»	
1941	Jan. 8	10 25	08.1	1728	627	1101	1	»	»	
1940	Nov. 29	10 38	7 06.0	1719	630	0.01089	10	Bamberg	S. E.	
1941	Feb. 16	11 16	7 03.5	1709	591	0.01118	4	Bamberg	S. E.	
»	Mar. 19	10 30	03.1	1703	599	1104	4	»	»	
»	Apr. 12	11 42	00.4	1696	595	1101	6	»	»	
»	May 9	9 15	6 58.7	1686	578	1107	2	»	»	
1941	Mar. 22	10 41	7 01.4	1699	591	0.01108	18	Bamberg	S. E.	
1941	May 18	10 02	6 53.7	1669	576	0.01093	2	Bamberg	S. E.	
»	Jun. 11	15 47	7 00.7	1697	600	1097	4	»	»	
»	Jul. 5	8 48	6 40.2	1625	563	[1062]	2	»	»	
1941	Jun. 20	11 32	6 48.7	1649	579	1095	8	Bamberg	S. E.	
1941	Jul. 23	9 12	6 51.2	1659	577	0.01095	3	Bamberg	S. E.	
»	Aug. 18	9 32	55.5	1676	550	[1126]	4	»	»	
»	Sep. 16	10 38	54.5	1672	580	1092	4	»	»	
»	Oct. 4	10 19	53.2	1667	576	1091	4	»	»	
»	Nov. 1	11 20	52.0	1662	568	1094	1	»	»	
1941	Sep. 18	10 22	6 53.3	1668	570	0.01093	16	Bamberg	S. E.	
1941	Nov. 24	12 59	6 52.6	1665	571	0.01094	2	.H.M.76	E. K.	
1941	Dec. 23	12 37	6 54.4	1672	582	0.01090	2	Bamberg	S. E.	
1942	Jan. 7	13 35	50.0	1654	576	1078	1	»	»	

meter, besides in some few cases in 1941 also a new *La Cour* construction, designated: Q. H. M. No. 76. This instrument, which in the summer of 1941, had been tested at *Rude Skov Observatory*, was used for control observation by Captain E. KJÆR, who observed at Dombås the 24. of November, 1941. The result of this observation was:  $D = 6^{\circ}52', 6 W$ .

Details of the absolute observations and the calculation of base line values for the *d*-curve will be found in Table III and the adopted base line values are stated in Table IV.

Table IV.

From		To		$B_d$
Year	Date	Year	Date	
1940	Jan. 1	1940	Oct. 12	0.01095
»	Oct. 12	1941	Jan. 24	1090
1941	Jan. 24	»	May 16	1110
»	May 16	»	Nov. 18	1095
»	Nov. 18	1942	Jan. 14	1080

The usual observations at Dombås were taken by S. EINBU with the Bamberg declinometer, mounted on the wooden pier in the absolute house (cp. No. 9), while the observations with Q. H. M. were made by Captain KJÆR. The cairn on *Veslefjell*, at a distance of about 4 km from the station, served now, as before, as »*Mark*«. The azimuth of this »*Mark*« is:  $159^{\circ}08',5$ .

*Base line value for the h-curve:* LA COUR's torsion-instrument, Q. H. M. No. 15, has been used as station instrument during 1940 and 1941. The general observer was S. EINBU and occasionally his son, PER EINBU. The instrument was mounted on the pier in the absolute house. In Table V we give details of the calculation of base-line values. Control observations were taken by E. KJÆR the 6. and 24. of November, 1941 with Q. H. M. No. 76, mounted on the usual pier in the absolute house. The first of these control observations resulted in  $B_h = 0.13562$  and should thus belong to the base-line period for the interval April 4. to November 6. 1941.

This result agrees fairly well with EINBU's result for the period in question:  $B_h = 0.13564$ . The 6. of November there seems to have been a change in the base-line value and the result of Captain KJÆR's control observation gave:  $B_h = 0.13582$  against EINBU's result for the interval Nov. 6 to Jan. 12, 1942  $B_h = 0.13580$ . The conditions during the control observations were rather bad for the 6. of November, but fairly favourable for the 24. The adopted base-line values are stated in Table VI.



Table V.

Year	Date	Time	H	h	B <sub>h</sub>	Numb. of Observ.	Instrument	Observer
1939	Sep. 27	13 58	C. G. S. 0.13910	γ 324	C. G. S. 0.13586	3	Ell. 38	S. E.
»	Oct. 10	12 33	885	306	579	6	»	»
»	Nov. 7	12 39	901	327	578	16	Q. M. H. 15	P. E.
»	Dec. 13	11 36	907	332	575	5	»	S. E.
1940	Jan. 6	12 50	885	306	579	3	»	P. E.
»	Feb. 17	12 18	895	318	577	5	»	»
»	Mar. 23	12 02	879	297	582	1	»	S. E.
»	Apr. 8	15 06	867	278	589	2	»	»
»	May 14	11 15	850	265	585	4	»	»
»	Jul. 13	10 39	877	300	577	1	»	»
1940	Jan. 29	12 30	0.13886	305	0.13581	46	Q. H. M. 15	S. E.
1940	Jul. 26	11 04	0.13877	322	0.13555	2	Q. H. M. 15	P. E.
»	Aug. 19	16 00	908	338	570	4	»	»
»	Sep. 18	10 52	878	318	560	4	»	»
»	Oct. 17	11 25	898	340	558	4	»	S. E.
»	Nov. 17	10 33	859	294	565	4	»	»
»	Dec. 16	11 51	891	341	550	3	»	»
1941	Jan. 8	11 53	891	324	567	1	»	»
»	Feb. 28	10 38	873	329	544	1	»	»
»	Mar. 10	9 24	867	304	563	3	»	»
1940	Nov. 18	11 31	0.13882	323	0.13559	26	Q. H. M. 15	S. E.
1941	Apr. 19	11 10	0.13881	314	0.13567	5	Q. H. M. 15	S. E.
»	May 16	9 38	875	306	569	4	»	»
»	Jun. 11	15 52	899	332	567	4	»	»
»	Jul. 16	9 10	874	308	566	5	»	»
»	Sep. 16	10 33	850	292	558	4	»	»
»	Oct. 15	10 27	858	301	557	4	»	»
»	Nov. 6	12 28	885	321	563	4	»	»
1941	Jul. 31	11 20	0.13875	311	0.13564	30	Q. H. M. 15	S. E.
1941	Nov. 6	13 04	0.13889	327	0.13562	1	Q. H. M. 76	E. K.
1941	Nov. 24	11 44	0.13882	303	0.13582	3	Q. H. M. 76	E. K.
1941	Nov. 24	11 50	0.13882	303	0.13582	2	Q. H. M. 15	S. E.
»	Dec. 7	11 25	880	305	575	3	»	»
1942	Jan. 7	13 58	875	294	581	1	»	»
1941	Dec. 13	12 24	0.13879	301	0.13578	6	Q. H. M. 15	S. E.

Table VI.

From		To		B <sub>d</sub>
Year	Date	Year	Date	
1939	Sep. 25	1940	Jul. 17	C. G. S. 0.13580
1940	Jul. 17	1941	Apr. 4	560
1941	Apr. 4	1941	Nov. 6	565
1941	Nov. 6	1942	Jan. 12	580

*Vertical Intensity:* In 1941 we purchased one of LA COUR's constructions for measurement of vertical intensity. This instrument, designated B. M. Z. No. 16 was used by Captain KJÆR at Dombås during the interval 24. of November, 1941 to 14. of January, 1942. The instrument was mounted on a tripod placed outside the absolute house. The result for  $V$  will be seen to be: 0.47347. The corresponding value for  $H$  was: 0.13885, by which we get  $I = 73^{\circ}39'.3$ . This result is 5 minutes higher than EINBU's result with Dover No. 10:  $73^{\circ}34'.3$ , for 1939, and as the value for  $H$  was: 0.13906, we have for  $V$ : 0.47164, which is decidedly too low (cp. page 4\*). The control observation, taken by E. BARLINDHAUG the 9. of August, 1939, resulted in  $I = 73^{\circ}32'.5$  and  $V = 0.47174$ .

The most reliable observation for inclination at Dombås before 1940 is the mean value obtained by O. KROGNESS the 14. of July, 1931:  $I = 73^{\circ}23'.8$ . With  $H = 0.14085$  we get:  $V = 0.47240$ . This observation was taken during the time Mr. FLOYD SOULE of the Carnegie Institution observed at Dombås.

According to what is said above BARLINDHAUG's result for  $I$  in August, 1939, must be 5 minutes and  $V$  about 175  $\gamma$  too low. Before, therefore, the temperature coefficient of the  $v$ -curve has been determined anew by aid of sufficiently large observation material with the new La Cour instrument, it will be no use to attempt any reduction of the  $v$ -curve at Dombås. This will be done as soon as is possible to do so.

Table VII.

Year	Date	Time	V	Instrument	Observ.
1941	Nov. 24	14 55	0.47334	B. M. Z. 16	E. K.
»	» 24	15 07	333	»	»
»	Dec. 22	11 29	344	»	»
»	» 29	13 02	358	»	»
»	» 31	11 18	369	»	»
1942	Jan. 14	12 41	343		
Mean .....			0.47347	B. M. Z. 16	E. K.

## TABLES

The 7-day normals for quiet diurnal variation for $D$ , $H$ and $V$ for 1940 and 1941, besides corresponding monthly mean values .....	page 2—5
Direct hour values for $D$ and $H$ , expressed $\gamma$ , with daily mean values ( $M$ and $QM$ ) and range $R$ , whereby the mean for $D$ is also expressed in degrees and tenths of minutes. Hour data for Storminess for $D$ , $H$ and $V$ for 1940 and 1941, with daily data for positive, negative and absolute storminess ( $PS$ , $NS$ and $AS$ ), besides character numbers .....	» 6—43
Monthly mean data for direct and quiet values for $D$ and $H$ for 1940 and 1941. Range of direct and quiet data for diurnal variation and monthly values for Storminess for $D$ , $H$ and $V$ , besides such data for positive, negative and absolute storminess and monthly data for character numbers .....	» 43
Tables for daily three-hour data for index $K$ for the three years 1939—41 .....	» 44—47

## GRAPHS

Fig. 1. Diurnal variation for quiet days for $D$ , $H$ and $V$ for the four seasons in the years 1940 and 1941 .....	page 48
Fig. 2. Monthly mean values for quiet diurnal variation for $D$ , $H$ and $V$ for 1940 and 1941 .....	» 49
Fig. 3. Monthly mean values for diurnal variation of storminess as vector diagrams for $D$ and $H$ for 1940 and 1941 .....	» 50
Fig. 4. Monthly mean values for diurnal variation for storminess in $V$ for 1940 and 1941 .....	» 51
Fig. 5. Daily values for absolute storminess for $D$ and $H$ for 1940 and 1941 .....	» 52

*Dombås.*

Declination. Quiet Values (+ W). Unit Gamma.

*Gr. M. T.*

Table with columns for months (1940), days (1-23), and statistical values (MIN, MAX, AMPL). Rows include JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, and ANNUAL MEAN.

*Dombås.*

Horizontal Intensity. Quiet Values (+ N). Unit Gamma.

*Gr. M. T.*

Table with columns for months (1940), days (1-23), and statistical values (DAY EXTREME, NIGHT EXTREME). Rows include JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, and ANNUAL MEAN.



Dombås.

Horizontal Intensity. Quiet Values (+N). Unit Gamma.

Gr. M. T.

Main data table for Horizontal Intensity with columns for months (JAN-DEC), days (1-23), and extreme values (DAY EXTREME, NIGHT EXTREME).

Dombås.

Vertical Intensity. Quiet Values (+ Down). Unit Gamma.

Gr. M. T.

Main data table for Vertical Intensity with columns for months (JAN-DEC), days (1-23), and extreme values (DAY EXTREME, NIGHT EXTREME).

Dombás.

Declination. Quiet Values (+ W). Unit Gamma.

Gr. M. T.

Table with 24 columns (1-23) and 3 columns (MIN, MAX, AMPL). Rows include months from JAN to DEC and a MEAN row.

Dombás.

Horizontal Intensity. Quiet Values (+ N). Unit Gamma.

Gr. M. T.

Table with 24 columns (1-23) and 3 columns (MIN, MAX, AMPL). Rows include months from JAN to DEC and a MEAN row.

Dombás.

Vertical Intensity. Quiet Values (+ Down). Unit Gamma.

Gr. M. T.

Table with 24 columns (1-23) and 3 columns (MIN, MAX, AMPL). Rows include months from JAN to DEC and a MEAN row.

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Dombás.

Vertical Intensity. Quiet Values (+ Down). Unit Gamma.

Gr. M. T.

Table with 24 columns (1-23) and 3 columns (MIN, MAX, AMPL). Rows include months from JAN to DEC and a MEAN row.

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for January 1940 showing declination data for days 1-31. Includes columns for day, 24 declination values, and summary rows (M, QM, R).

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for February showing declination data for days 1-31. Includes columns for day, 24 declination values, and summary rows (M, QM, R).

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for March showing declination data for days 1-31. Includes columns for day, 24 declination values, and summary rows (M, QM, R).



Declination. Storminess (+ W). Unit Gamma.

Dombás.

Gr. M. T.

JANUARY 1940

Table for January 1940 showing magnetic data for days 1-31. Columns include Day, Declination (1-23), Storminess (M, PS, NS, AS, CH), and Gr. M. T. (M, PS, NS, AS, CH).

Declination. Storminess (+ W). Unit Gamma.

Dombás.

Gr. M. T.

FEBRUARY

Table for February showing magnetic data for days 1-29. Columns include Day, Declination (1-23), Storminess (M, PS, NS, AS, CH), and Gr. M. T. (M, PS, NS, AS, CH).

Declination. Storminess (+ W). Unit Gamma.

Dombás.

Gr. M. T.

MARCH

Table for March showing magnetic data for days 1-31. Columns include Day, Declination (1-23), Storminess (M, PS, NS, AS, CH), and Gr. M. T. (M, PS, NS, AS, CH).

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for April 1940 showing declination and unit gamma values for days 1-31. Includes columns for day, time (1-23), and various data points (M, QM, R).

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for May showing declination and unit gamma values for days 1-31. Includes columns for day, time (1-23), and various data points (M, QM, R).

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for June showing declination and unit gamma values for days 1-31. Includes columns for day, time (1-23), and various data points (M, QM, R).



Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for July 1940 showing declination data for Dombås and Gr. M. T. Includes columns for Day, 24 declination values, and summary rows M, QM, and R.

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for August 1940 showing declination data for Dombås and Gr. M. T. Includes columns for Day, 24 declination values, and summary rows M, QM, and R.

Declination. (+ W). Unit Gamma.

Dombås.

Gr. M. T.

Table for September 1940 showing declination data for Dombås and Gr. M. T. Includes columns for Day, 24 declination values, and summary rows M, QM, and R.

JULY 1940. Declination. Storminess (+ W). Unit Gamma. Dombás. Gr. M. T. Table with 24 columns for days and 5 sub-columns for magnetometer stations (M, P8, NS, AS, CH).

AUGUST. Declination. Storminess (+ W). Unit Gamma. Dombás. Gr. M. T. Table with 24 columns for days and 5 sub-columns for magnetometer stations (M, P8, NS, AS, CH).

SEPTEMBER. Declination. Storminess (+ W). Unit Gamma. Dombás. Gr. M. T. Table with 24 columns for days and 5 sub-columns for magnetometer stations (M, P8, NS, AS, CH).

Declination. (+ W). Unit Gamma.

Dombds.

Gr. M. T.

Table for October 1940 with columns for DAY (1-31), D (1000 + TABULATED T), and various unit gamma values (1-25, M, M, QM, QM, R).

Declination. (+ W). Unit Gamma.

Dombds.

Gr. M. T.

Table for November with columns for DAY (1-31), D (1000 + TABULATED T), and various unit gamma values (1-25, M, M, QM, QM, R).

Declination. (+ W). Unit Gamma.

Dombds.

Gr. M. T.

Table for December with columns for DAY (1-31), D (1000 + TABULATED T), and various unit gamma values (1-25, M, M, QM, QM, R).

OCTOBER 1940

Declination. Storminess (+ W). Unit Gamma.

Dombás.

Gr. M. T.

Table for October 1940 showing magnetic data for days 1-31. Columns include Day, 24 columns of declination/storminess values, and 5 columns of unit gamma values.

NOVEMBER

Declination. Storminess (+ W). Unit Gamma.

Dombás.

Gr. M. T.

Table for November showing magnetic data for days 1-31. Columns include Day, 24 columns of declination/storminess values, and 5 columns of unit gamma values.

DECEMBER

Declination. Storminess (+ W). Unit Gamma.

Dombás.

Gr. M. T.

Table for December showing magnetic data for days 1-31. Columns include Day, 24 columns of declination/storminess values, and 5 columns of unit gamma values.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

JANUARY 1940

H = 0,13500 + TABULATED QUANTITIES EXPRESSED IN GAMMA.

Table with 25 columns (DAY 1-25) and 3 summary columns (M, QM, R). Rows contain numerical data for each day.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

FEBRUARY

Table with 25 columns (DAY 1-25) and 3 summary columns (M, QM, R). Rows contain numerical data for each day.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

MARCH

Table with 25 columns (DAY 1-25) and 3 summary columns (M, QM, R). Rows contain numerical data for each day.



Dombás.

JANUARY 1940

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 rows (M, PS, NS, AS) for January 1940. Data includes magnetic intensity values and storminess indices.

Dombás.

FEBRUARY 1940

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 rows (M, PS, NS, AS) for February 1940. Data includes magnetic intensity values and storminess indices.

Dombás.

MARS 1940

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 rows (M, PS, NS, AS) for March 1940. Data includes magnetic intensity values and storminess indices.

THE MEASUREMENTS OF THE LARGE STORM THE 24 AND 25 WAS VERY DIFFICULT TO READ AND SOME OF THE HOUR-DATE MAY THEREFORE BE DOUBTFULL.

Dombds.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

APRIL 1940

H = 0, 13500 + TABULATED QUANTITIES EXPRESSED IN GAMMA.

Table with columns DAY (1-31), 1-25, M, QM, R. Contains numerical data for April 1940.

Dombds.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

MAY

Table with columns DAY (1-31), 1-23, M, QM, R. Contains numerical data for May.

Dombds.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

JUNE

Table with columns DAY (1-31), 1-23, M, QM, R. Contains numerical data for June.

Dombás.

APRIL 1940

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

Gr. M. T.

Table with 26 columns (DAY 1-26, M, PS, NS, AS) and 31 rows of data for April 1940. Values range from -55.5 to 20.5.

Dombás.

MAY 1940

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

Gr. M. T.

Table with 26 columns (DAY 1-26, M, PS, NS, AS) and 31 rows of data for May 1940. Values range from -60 to 36.

Dombás.

JUNE 1940

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

Gr. M. T.

Table with 26 columns (DAY 1-26, M, PS, NS, AS) and 31 rows of data for June 1940. Values range from -25 to 35.

Dombås. JULY 1940

Horizontal Intensity. Unit Gamma.

H = 0,13500 + TABULATED QUANTITIES EXPRESSED IN GAMMA.

Gr. M. T.

Table with columns DAY, 1-23, M, QM, R. Contains numerical data for July 1940.

Dombås. AUGUST

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns DAY, 1-23, M, QM, R. Contains numerical data for August 1940.

Dombås. SEPTEMBER

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns DAY, 1-23, M, QM, R. Contains numerical data for September 1940.

Dombás. JULY 1940

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 rows (M, MNS, NNS, AS) containing magnetic intensity and storminess data for July 1940.

Dombás. AUGUST 1940

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 rows (M, MNS, NNS, AS) containing magnetic intensity and storminess data for August 1940.

Dombás. SEPTEMBER 1940

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 rows (M, MNS, NNS, AS) containing magnetic intensity and storminess data for September 1940.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

OCTOBER 1940

M = 0,13500 + TABULATED QUANTITIES EXPRESSED IN GAMMA.

Table with columns DAY, 1-23, M, QM, R. Contains numerical data for October 1940.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

NOVEMBER

Table with columns DAY, 1-23, M, QM, R. Contains numerical data for November 1940.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

DECEMBER

Table with columns DAY, 1-23, M, QM, R. Contains numerical data for December 1940.

Dombás.

OCTOBER 1940

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 3 columns (M, PS, NS, AS). Contains magnetic data for October 1940.

Dombás.

NOVEMBER 1940

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 3 columns (M, PS, NS, AS). Contains magnetic data for November 1940.

Dombás.

DECEMBER 1940

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 3 columns (M, PS, NS, AS). Contains magnetic data for December 1940.

+ INTERPOLATED

Dombås.

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

Gr. M. T.

Table with columns: DAY, 1-23, M, PS, NS, AS. Rows for January 1940, including data for days 1-31 and summary rows M, MPS, MNS.

Dombås.

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

Gr. M. T.

Table with columns: DAY, 1-23, M, PS, NS, AS. Rows for February 1940, including data for days 1-28 and summary rows M, MPS, MNS.

Dombås.

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

Gr. M. T.

Table with columns: DAY, 1-23, M, PS, NS, AS. Rows for March 1940, including data for days 1-31 and summary rows M, MPS, MNS.



Dombás.

APRIL 1940

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

Gr. M. T.

Table with columns for DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic intensity and storminess data for April 1940.

Dombás.

MAY 1940

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

Gr. M. T.

Table with columns for DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic intensity and storminess data for May 1940.

Dombás.

JUNE 1940

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

Gr. M. T.

Table with columns for DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic intensity and storminess data for June 1940.

Dombås.

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

Gr. M. T.

Table with columns for DAY (1-31), 1-25, M, PS, NS, AS. Data for July 1940 showing vertical intensity and storminess values.

Dombås.

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

Gr. M. T.

Table with columns for DAY (1-31), 1-25, M, PS, NS, AS. Data for August 1940 showing vertical intensity and storminess values.

Dombås.

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

Gr. M. T.

Table with columns for DAY (1-31), 1-25, M, PS, NS, AS. Data for September 1940 showing vertical intensity and storminess values.

Dombás.

OCTOBER 1940

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

Gr. M. T.

Table with columns DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic data for October 1940.

Dombás.

NOVEMBER 1940

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

Gr. M. T.

Table with columns DAY (1-30), 1-23, M, PS, NS, AS. Contains magnetic data for November 1940.

Dombás.

DECEMBER 1940

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

Gr. M. T.

Table with columns DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic data for December 1940.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1941

D = 1000 + TABULATED  $\gamma$ , ( $6^\circ +$  TABULAR QUANTITIES EXPRESSED IN TENTHS OF MINUTES).

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	M	QM	QM	R	
1	696	694	693	700	690	697	699	693	696	694	690	701	708	700	697	700	683	677	658	652	662	668	687	690	599	705	628	166	
2	677	678	708	698	690	690	690	692	696	692	701	737	723	730	707	692	697	687	695	697	698	695	698	690	693	596	703	627	177
3	690	694	697	697	697	697	696	693	693	694	698	703	706	699	704	708	707	701	680	690	691	680	680	684	694	599	700	614	52
4	650	674	686	693	692	697	697	701	698	695	695	704	711	710	709	710	702	699	694	696	691	690	690	697	695	601	697	606	113
5	700	700	700	698	699	699	700	700	702	702	704	710	709	707	710	712	709	708	704	700	702	699	698	701	702	610	698	609	11
6	678	698	690	637	650	667	680	713	712	702	704	709	710	704	703	708	711	708	706	706	695	694	692	687	694	599	699	611	108
7	697	690	691	689	691	690	693	696	700	709	707	705	703	703	700	720	695	683	695	698	694	699	693	675	696	604	700	614	195
8	684	697	690	693	694	693	694	706	709	701	709	707	710	717	716	704	708	705	706	710	708	701	667	675	698	609	701	616	91
9	680	690	677	680	690	695	700	709	711	715	714	722	737	723	730	710	702	703	703	699	692	695	672	671	702	610	702	618	102
10	705	681	692	695	697	700	700	700	700	705	710	717	718	713	716	714	700	697	705	685	699	708	692	681	701	616	703	621	88
11	682	658	670	687	694	694	691	695	703	707	712	723	726	727	717	718	710	709	702	697	701	700	671	683	699	611	699	611	87
12	685	686	689	697	698	698	697	695	701	707	712	717	719	726	727	720	715	709	697	697	688	670	678	672	699	611	700	614	82
13	692	677	692	694	699	699	698	695	694	697	698	704	712	710	706	701	703	708	700	701	694	695	691	699	611	699	611	616	86
14	697	697	693	704	699	698	698	698	698	700	700	703	702	702	700	690	698	700	690	699	699	698	698	676	696	604	697	606	58
15	682	679	677	684	690	696	689	692	695	699	704	707	703	702	701	708	705	700	699	695	696	696	694	698	695	601	696	604	51
16	698	697	701	702	701	700	699	701	707	706	701	704	710	722	738	752	718	707	699	695	695	696	694	690	705	626	696	604	25
17	678	650	624	690	695	694	693	719	751	740	711	718	722	737	723	727	660	806	685	673	666	640	630	735	689	587	693	601	280
18	743	700	691	715	719	718	719	703	703	706	698	700	703	707	702	690	694	650	658	670	677	689	703	724	693	589	664	599	265
19	730	687	660	691	691	698	701	702	697	696	703	698	704	720	600	700	693	645	697	699	698	652	679	750	693	586	666	604	152
20	676	683	708	709	703	699	694																						
21																													
22																													
23																													
24																													
25																													
26																													
27																													
28																													
29																													
30																													
31																													
M	692	696	687	690	694	695	698	700	702	704	703	708	712	712	708	709	695	689	696	685	690	685	684	690	696	604	700	614	110
M	594	579	582	589	599	601	604	614	618	624	621	633	642	642	633	635	601	587	604	577	599	577	574	589	696	604	700	614	110
QM	695	696	697	698	697	695	695	697	699	702	705	708	709	710	709	707	704	701	699	695	695	696	694	698	705	626	696	604	25
QM	601	604	606	609	606	601	601	601	606	611	619	626	633	635	638	635	631	624	616	611	608	604	601	599	695	587	693	601	280

Owing to the war situation we ran short of register paper in January 1941. New supply was, however, procured, so that the records are missing only for February and March.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

APRIL

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	M	QM	QM	R	
1	692	695	708	704	698	697	697	695	692	700	711	725	724	725	726	707	711	709	708	707	708	722	709	700	707	651	708	633	66
2	700	717	682	687	684	685	685	690	704	718	722	735	744	751	750	752	726	720	714	714	702	660	677	697	707	651	710	640	146
3	703	693	680	700	688	681	680	705	710	724	732	744	758	740	707	729	721	725	688	665	698	702	685	699	707	651	711	640	103
4	695	702	703	701	703	702	705	705	706	707	718	717	712	703	695	692	692	690	687	687	682	680	680	680	698	609	709	635	34
5	692	684	660	678	677	681	680	673	673	680	692	708	714	716	705	700	691	686	682	686	683	671	682	675	686	579	700	628	90
6	673	675	682	658	651	662	662	680	685	685	698	710	718	717	715	709	701	697	692	691	692	678	655	678	687	651	703	621	91
7	686	686	683	683	682	682	689	670	673	684	688	714	720	726	721	707	698	694	690	630	603	612	642	681	587	700	614	170	
8	673	680	673	677	675	670	673	670	674	681	691	706	714	710	704	703	695	689	677	682	685	685	674	674	684	574	697	606	152
9	681	683	677	680	687	705	698	680	683	686	698	708	716	712	715	700	690	684	692	692	690	684	677	680	689	587	694	599	89
10	680	679	681	684	680	675	694	685	695	686	692	703	694	690	688	700	690	690	690	690	690	672	672	671	687	617	691	619	183
11	685	693	693	688	662	668	664	682	694	681	684	696	707	708	696	704	696	690	658	664	657	662	686	681	662	569	688	594	100
12	691	686	696	700	712	712	675	683	676	683	690	714	711	710	703	690	672	686	687	688	682	681	683	690	692	594	685	576	70
13	683	715	688	682	681	676	669	668	670	680	691	705	709	703	697	692	690	686	688	680	680	700	700	689	687	686	570	570	55
14	699	680	683	682	689	688	679	683	682	684	705	713	702	709	694	650	650	681	687	687	687	687	687	689	689	689	687	687	51
15	684	681	680	679	677	674	670	670	680	692	707	717	714	710	711	710	705	703	702	702	701	699	700	693	598	692	584	54	
16	712	685	673	681	683	686	685	689	692	698	713	725	727	722	710	714	708	700	701	699	700	699	700	702	700	614	695	601	78
17	702	698	698	697	698	683	679	690	699	701	710	716	721	726	725	722	719	712	702	701	698	698	699	703	703	621	698	609	50
18	711	694	682	685	683	686	691	695	694	699	707	717	722	715	711	709	691	700											

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1941

Table with columns for Day (1-31), M, PS, NS, AS, CH. Includes a note: 'Owing to the war situation we ran short of register paper in January 1941. New apparatus was, however, procured, so that the records are missing only for February and March.'

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

APRIL

Table with columns for Day (1-30), M, PS, NS, AS, CH.

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

MAY

Table with columns for Day (1-31), M, PS, NS, AS, CH.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

Table with columns for DAY (1-31), 23 columns of declination values, and columns for M, QM, and R. Includes sub-headers for 'D = 1000 + TABULATED 7' and 'TABULATED QUANTITIES EXPRESSED IN TENTHS OF MINUTES'.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

Table with columns for DAY (1-31), 23 columns of declination values, and columns for M, QM, and R. Includes sub-headers for 'D = 1000 + TABULATED 7' and 'TABULATED QUANTITIES EXPRESSED IN TENTHS OF MINUTES'.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

Table with columns for DAY (1-31), 23 columns of declination values, and columns for M, QM, and R. Includes sub-headers for 'D = 1000 + TABULATED 7' and 'TABULATED QUANTITIES EXPRESSED IN TENTHS OF MINUTES'.

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table for June 1941 with columns for Day (1-31), M, P8, N8, AS, CH. Contains numerical data for declination, storminess, and unit gamma.

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table for July 1941 with columns for Day (1-31), M, P8, N8, AS, CH. Contains numerical data for declination, storminess, and unit gamma.

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table for August 1941 with columns for Day (1-31), M, P8, N8, AS, CH. Contains numerical data for declination, storminess, and unit gamma.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

Table for September 1941 with columns for Day (1-31), 24 columns of data, and summary rows M, QM, and R. Includes header 'D = 1000 + TABULATED 7. (6° + TABULAR QUANTITIES EXPRESSED IN TENTHS OF MINUTES)'.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

Table for October with columns for Day (1-31), 24 columns of data, and summary rows M, QM, and R.

Dombås.

Declination. (+ W). Unit Gamma.

Gr. M. T.

Table for November with columns for Day (1-31), 24 columns of data, and summary rows M, QM, and R.



Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table for September 1941 with columns for Day, Declination (1-25), Storminess (M), PS, NS, AS, CH. Includes summary rows for MPS and MNS.

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table for October 1941 with columns for Day, Declination (1-25), Storminess (M), PS, NS, AS, CH. Includes summary rows for MPS and MNS.

Dombás.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table for November 1941 with columns for Day, Declination (1-25), Storminess (M), PS, NS, AS, CH. Includes summary rows for MPS and MNS.

Dombds.

Declination. Unit Gamma.

Gr. M. T.

Table with columns DAY, 1-23, M, QM, R. Title: Dombds. Declination. Unit Gamma. D = 1000 + TABULATED 7. (6° + TABULAR QUANTITIES EXPRESSED IN TENTHS OF MINUTES). Includes a note about the war situation in January 1941.

Dombds.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns JANUARY 1941, DAY, 1-23, M, QM, R. Title: Dombds. Horizontal Intensity. Unit Gamma. H = 0,13800 + TABULATED QUANTITIES EXPRESSED IN GAMMA.

Going to the war situation we ran short of register paper in January 1941. New supply was, however, procured, so that the records are missing only for February and March.

Dombds.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns APRIL, DAY, 1-23, M, QM, R. Title: Dombds. Horizontal Intensity. Unit Gamma.

Dombás. DECEMBER 1941

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

Table with columns: DAY (1-31), 1-23, M, PS, NS, AS, CH. Contains numerical data for December 1941.

Dombás. JANUARY 1941

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

Gr. M. T.

Table with columns: DAY (1-31), 1-23, M, PS, NS, AS. Contains numerical data for January 1941, including a note about missing records for February and March.

Dombás. APRIL

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

Gr. M. T.

Table with columns: DAY (1-31), 1-23, M, PS, NS, AS. Contains numerical data for April 1941.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with 24 columns (DAY, 1-23, M, QM, R) and 31 rows (1-31) for May 1941. Includes title 'Horizontal Intensity. Unit Gamma.' and subtitle 'H = 0,13500 + TABULATED QUANTITIES EXPRESSED IN GAMMA.'

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with 24 columns (DAY, 1-23, M, QM, R) and 31 rows (1-31) for June 1941. Includes title 'Horizontal Intensity. Unit Gamma.'

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with 24 columns (DAY, 1-23, M, QM, R) and 31 rows (1-31) for July 1941. Includes title 'Horizontal Intensity. Unit Gamma.'

Dombás.

MAY 1941

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 rows (M, PS, NS, AS) containing magnetic intensity and storminess data for May 1941.

Dombás.

JUNE 1941

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 rows (M, PS, NS, AS) containing magnetic intensity and storminess data for June 1941.

Dombás.

JULY 1941

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 rows (M, PS, NS, AS) containing magnetic intensity and storminess data for July 1941.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns: DAY, 1-23, M, QM, R. Rows: AUGUST 1941, 1-31, M, QM. Includes header information: H = 0,13500 - TABULATED QUANTITIES EXPRESSED IN GAMMA.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns: DAY, 1-23, M, QM, R. Rows: SEPTEMBER 1941, 1-31, M, QM.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

Table with columns: DAY, 1-23, M, QM, R. Rows: OCTOBER 1941, 1-31, M, QM.

Dombás.

AUGUST 1941

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

Gr. M. T.

Table with columns for DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic data for August 1941.

Dombás

SEPTEMBER 1941

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

Gr. M. T.

Table with columns for DAY (1-30), 1-23, M, PS, NS, AS. Contains magnetic data for September 1941.

Dombás.

OCTOBER 1941

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

Gr. M. T.

Table with columns for DAY (1-31), 1-23, M, PS, NS, AS. Contains magnetic data for October 1941.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

NOVEMBER 1941

H = 0,13500 + TABULATED QUANTITIES EXPRESSED IN GAMMA

Table with columns DAY (1-31), 1-23, M, QM, R. Contains numerical data for November 1941.

Dombås.

Horizontal Intensity. Unit Gamma.

Gr. M. T.

DECEMBER 1941

Table with columns DAY (1-31), 1-23, M, QM, R. Contains numerical data for December 1941.



Dombás.

NOVEMBER 1941

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 columns (M, PS, NS, AS). Rows include daily data from 1 to 31, followed by monthly averages (M, MPS, MNS) and a final summary row.

Dombás.

DECEMBER 1941

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

Gr. M. T.

Table with 25 columns (DAY 1-25) and 4 columns (M, PS, NS, AS). Rows include daily data from 1 to 31, followed by monthly averages (M, MPS, MNS) and a final summary row.

Dombås.

JANUARY 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 3 columns (M, PS, NS, AS). Contains numerical data for January 1941, including a note about missing records for February and March.

Dombås.

APRIL 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 3 columns (M, PS, NS, AS). Contains numerical data for April 1941.

Dombås.

MAY 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 3 columns (M, PS, NS, AS). Contains numerical data for May 1941.

Dombás.

JUNE 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 columns (M, PS, NS, AS). Rows include daily data from 1 to 31, and summary rows for M, PS, NS, AS, MNS, and MNS.

Dombás.

JULY 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 columns (M, PS, NS, AS). Rows include daily data from 1 to 31, and summary rows for M, PS, NS, AS, MNS, and MNS.

Dombás.

AUGUST 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 columns (M, PS, NS, AS). Rows include daily data from 1 to 31, and summary rows for M, PS, NS, AS, MNS, and MNS.

Dombås.

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

Gr. M. T.

Table with columns for DAY (1-31), M, PS, NS, AS and rows for SEPTEMBER 1941. Data includes vertical intensity and storminess values for each day.

Dombås.

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

Gr. M. T.

Table with columns for DAY (1-31), M, PS, NS, AS and rows for OCTOBER 1941. Data includes vertical intensity and storminess values for each day.

Dombås.

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

Gr. M. T.

Table with columns for DAY (1-31), M, PS, NS, AS and rows for NOVEMBER. Data includes vertical intensity and storminess values for each day.

Dombás

DECEMBER 1941

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

Gr. M. T.

Table with 24 columns (DAY 1-24) and 4 rows (M, PB, NS, AS) showing daily magnetic data for Dombás in December 1941.

Mean Monthly Values.

Dombás

Table of mean monthly values for Dombás, 1940, including declination, horizontal intensity, and vertical intensity data.

Mean Monthly Values.

Dombás.

Table of mean monthly values for Dombás, 1941, including declination, horizontal intensity, and vertical intensity data.

+ INTERPOLATED.

THE THREE HOUR RANGE, INDEX K FOR DOWNS 1939.

JANUARY															FEBRUARY															MARCH														
DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN												
1	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	4	25	3.1													
2	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
3	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
4	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
5	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
6	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
7	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
8	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
9	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
10	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
11	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
12	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
13	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
14	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
15	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
16	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
17	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
18	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
19	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
20	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
21	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
22	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
23	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
24	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
25	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
26	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
27	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
28	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
29	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
30	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
31	0	0	0	0	0	0	0	0	0	0	1	2	1	0	2	2	3	5	4	19	2.4	1	3	2	2	2	3	4	25	3.1														
SUM	47	39	20	29	29	33	47	63	307	38.3	SUM	81	55	35	39	56	73	80	86	483	60.4	SUM	99	83	76	67	83	94	102	108	694	86.9												
M	1.5	1.3	0.7	0.9	0.9	1.4	1.5	2.1	10.0	1.2	M	2.2	1.9	1.3	1.4	2.0	2.6	2.8	3.1	17.3	2.2	M	3.2	2.7	1.9	2.2	2.7	3.0	3.3	3.5	22.5	2.8												

APRIL															MAY															JUNE														
DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN												
1	5	4	3	3	3	5	5	5	33	4.1	1	2	0	0	5	5	8	7	9	42	5.2	1	2	2	2	3	3	3	3	24	3.0													
2	4	4	4	4	4	5	4	4	29	4.8	2	0	0	0	5	4	7	6	9	45	5.6	2	2	2	2	3	3	3	3	23	3.8													
3	5	5	5	5	5	6	6	6	33	5.0	3	0	0	0	5	4	7	6	9	45	5.6	3	2	2	2	3	3	3	3	22	3.0													
4	4	4	4	4	4	4	4	4	23	2.9	4	0	0	0	5	4	7	6	9	45	5.6	4	2	2	2	3	3	3	3	22	2.8													
5	4	4	4	4	4	4	4	4	23	2.9	5	0	0	0	5	4	7	6	9	45	5.6	5	2	2	2	3	3	3	3	22	2.8													
6	7	7	7	7	7	8	8	8	55	8.1	6	0	0	0	5	4	7	6	9	45	5.6	6	2	2	2	3	3	3	3	22	1.1													
7	0	0	0	0	0	0	0	0	0	0.0	7	0	0	0	5	4	7	6	9	45	5.6	7	2	2	2	3	3	3	3	22	1.6													
8	0	0	0	0	0	0	0	0	0	0.0	8	0	0	0	5	4	7	6	9	45	5.6	8	2	2	2	3	3	3	3	22	1.8													
9	0	0	0	0	0	0	0	0	0	0.0	9	0	0	0	5	4	7	6	9	45	5.6	9	2	2	2	3	3	3	3	22	2.2													
10	0	0	0	0	0	0	0	0	0	0.0	10	0	0	0	5	4	7	6	9	45	5.6	10	0	0	0	3	3	3	3	3	18	2.2												
11	0	0	0	0	0	0	0	0	0	0.0	11	0	0	0	5	4	7	6	9	45	5.6	11	0	0	0	3	3	3	3	3	22	1.6												
12	0	0	0	0	0	0	0	0	0	0.0	12	0	0	0	5	4	7	6	9	45	5.6	12	0	0	0	3	3	3	3	3	22	1.6												
13	0	0	0	0	0	0	0	0	0	0.0	13	0	0	0	5	4	7	6	9	45	5.6	13	0	0	0	3	3	3	3	3	22	1.6												
14	0	0	0	0	0	0	0	0	0	0.0	14	0	0	0	5	4	7	6	9	45	5.6	14	0	0	0	3	3	3	3	3	22	1.6												
15	0	0	0	0	0	0	0	0	0	0.0	15	0	0	0	5	4	7	6	9	45	5.6	15	0	0	0	3	3	3	3	3	22	1.6												
16	0	0	0	0	0	0	0	0	0	0.0	16	0	0	0	5	4	7	6	9	45	5.6	16	0	0	0	3	3	3	3	3	22	1.6												
17	0	0	0	0	0	0	0	0	0	0.0	17	0	0	0	5	4	7	6	9	45	5.6	17	0	0	0	3	3	3	3	3	22	1.6												
18	0	0	0	0	0	0	0	0	0	0.0	18	0	0	0	5	4	7	6	9	45	5.6	18	0	0	0	3	3	3	3	3	22	1.6												
19	0	0	0	0	0	0	0	0	0	0.0	19	0	0	0	5	4	7	6	9	45	5.6	19	0	0	0	3	3	3	3	3	22	1.6												
20	0	0	0	0	0	0	0	0	0	0.0	20	0	0	0	5	4	7	6	9	45	5.6	20	0	0	0	3	3	3	3	3	22	1.6												
21	0	0	0	0	0	0	0	0	0	0.0	21	0	0	0	5	4	7	6	9	45	5.6	21	0	0	0	3	3	3	3	3	22	1.6												
22	0	0	0	0	0	0	0	0	0	0.0	22	0	0	0	5	4	7	6	9	45	5.6	22	0	0	0	3	3	3	3	3	22	1.6												
23	0	0	0	0	0	0	0	0	0	0.0	23	0	0	0	5	4	7																											



THE THREE HOUR RANGE, INDEX K FOR COMBÁS 1940

JULY														AUGUST														SEPTEMBER													
DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN									
1	3	2	1	2	1	2	1	2	12	1,5	1	5	3	0	0	2	2	3	2	3	20	2,5	1	5	2	2	2	8	5	2	1	25	3,1								
2	3	2	1	2	1	2	1	2	12	1,5	2	5	3	0	0	2	2	3	2	3	20	2,5	2	5	2	2	2	8	5	2	1	25	3,1								
3	3	2	1	2	1	2	1	2	12	1,5	3	5	3	0	0	2	2	3	2	3	20	2,5	3	5	2	2	2	8	5	2	1	25	3,1								
4	3	2	1	2	1	2	1	2	12	1,5	4	5	3	0	0	2	2	3	2	3	20	2,5	4	5	2	2	2	8	5	2	1	25	3,1								
5	3	2	1	2	1	2	1	2	12	1,5	5	5	3	0	0	2	2	3	2	3	20	2,5	5	5	2	2	2	8	5	2	1	25	3,1								
6	3	2	1	2	1	2	1	2	12	1,5	6	5	3	0	0	2	2	3	2	3	20	2,5	6	5	2	2	2	8	5	2	1	25	3,1								
7	3	2	1	2	1	2	1	2	12	1,5	7	5	3	0	0	2	2	3	2	3	20	2,5	7	5	2	2	2	8	5	2	1	25	3,1								
8	3	2	1	2	1	2	1	2	12	1,5	8	5	3	0	0	2	2	3	2	3	20	2,5	8	5	2	2	2	8	5	2	1	25	3,1								
9	3	2	1	2	1	2	1	2	12	1,5	9	5	3	0	0	2	2	3	2	3	20	2,5	9	5	2	2	2	8	5	2	1	25	3,1								
10	3	2	1	2	1	2	1	2	12	1,5	10	5	3	0	0	2	2	3	2	3	20	2,5	10	5	2	2	2	8	5	2	1	25	3,1								
11	3	2	1	2	1	2	1	2	12	1,5	11	5	3	0	0	2	2	3	2	3	20	2,5	11	5	2	2	2	8	5	2	1	25	3,1								
12	3	2	1	2	1	2	1	2	12	1,5	12	5	3	0	0	2	2	3	2	3	20	2,5	12	5	2	2	2	8	5	2	1	25	3,1								
13	3	2	1	2	1	2	1	2	12	1,5	13	5	3	0	0	2	2	3	2	3	20	2,5	13	5	2	2	2	8	5	2	1	25	3,1								
14	3	2	1	2	1	2	1	2	12	1,5	14	5	3	0	0	2	2	3	2	3	20	2,5	14	5	2	2	2	8	5	2	1	25	3,1								
15	3	2	1	2	1	2	1	2	12	1,5	15	5	3	0	0	2	2	3	2	3	20	2,5	15	5	2	2	2	8	5	2	1	25	3,1								
16	3	2	1	2	1	2	1	2	12	1,5	16	5	3	0	0	2	2	3	2	3	20	2,5	16	5	2	2	2	8	5	2	1	25	3,1								
17	3	2	1	2	1	2	1	2	12	1,5	17	5	3	0	0	2	2	3	2	3	20	2,5	17	5	2	2	2	8	5	2	1	25	3,1								
18	3	2	1	2	1	2	1	2	12	1,5	18	5	3	0	0	2	2	3	2	3	20	2,5	18	5	2	2	2	8	5	2	1	25	3,1								
19	3	2	1	2	1	2	1	2	12	1,5	19	5	3	0	0	2	2	3	2	3	20	2,5	19	5	2	2	2	8	5	2	1	25	3,1								
20	3	2	1	2	1	2	1	2	12	1,5	20	5	3	0	0	2	2	3	2	3	20	2,5	20	5	2	2	2	8	5	2	1	25	3,1								
21	3	2	1	2	1	2	1	2	12	1,5	21	5	3	0	0	2	2	3	2	3	20	2,5	21	5	2	2	2	8	5	2	1	25	3,1								
22	3	2	1	2	1	2	1	2	12	1,5	22	5	3	0	0	2	2	3	2	3	20	2,5	22	5	2	2	2	8	5	2	1	25	3,1								
23	3	2	1	2	1	2	1	2	12	1,5	23	5	3	0	0	2	2	3	2	3	20	2,5	23	5	2	2	2	8	5	2	1	25	3,1								
24	3	2	1	2	1	2	1	2	12	1,5	24	5	3	0	0	2	2	3	2	3	20	2,5	24	5	2	2	2	8	5	2	1	25	3,1								
25	3	2	1	2	1	2	1	2	12	1,5	25	5	3	0	0	2	2	3	2	3	20	2,5	25	5	2	2	2	8	5	2	1	25	3,1								
26	3	2	1	2	1	2	1	2	12	1,5	26	5	3	0	0	2	2	3	2	3	20	2,5	26	5	2	2	2	8	5	2	1	25	3,1								
27	3	2	1	2	1	2	1	2	12	1,5	27	5	3	0	0	2	2	3	2	3	20	2,5	27	5	2	2	2	8	5	2	1	25	3,1								
28	3	2	1	2	1	2	1	2	12	1,5	28	5	3	0	0	2	2	3	2	3	20	2,5	28	5	2	2	2	8	5	2	1	25	3,1								
29	3	2	1	2	1	2	1	2	12	1,5	29	5	3	0	0	2	2	3	2	3	20	2,5	29	5	2	2	2	8	5	2	1	25	3,1								
30	3	2	1	2	1	2	1	2	12	1,5	30	5	3	0	0	2	2	3	2	3	20	2,5	30	5	2	2	2	8	5	2	1	25	3,1								
31	3	2	1	2	1	2	1	2	12	1,5	31	5	3	0	0	2	2	3	2	3	20	2,5	31	5	2	2	2	8	5	2	1	25	3,1								
SUM	69	59	45	66	79	74	70	71	551	69,3	SUM	63	42	36	60	77	63	72	68	501	62,6	SUM	66	47	37	53	71	76	85	72	507	61,4									
M	2,2	1,9	1,4	2,1	2,5	2,4	2,5	2,3	17,1	2,1	M	2,0	1,4	1,2	1,9	2,5	2,7	2,3	2,2	16,2	2,0	M	2,2	1,6	1,2	1,8	2,4	2,6	2,4	19,9	2,1										

OCTOBER														NOVEMBER														DECEMBER													
DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN	DAY	0-3	3-6	6-9	9-12	12-15	15-18	18-21	21-24	SUM	MEAN									
1	5	3	1	2	2	5	7	9	34	4,2	1	2	2	2	3	2	2	0	0	0	14	1,8	1	2	3	2	2	2	2	3	4	20	2,5								
2	5	3	1	2	2	5	7	9	34	4,2	2	2	2	2	3	2	2	0	0	0	14	1,8	2	3	3	3	3	3	3	3	4	25	3,1								
3	5	3	1	2	2	5	7	9	34	4,2	3	2	2	2	3	2	2	0	0	0	14	1,8	3	3	3	3	3	3	3	3	4	25	3,1								
4	5	3	1	2	2	5	7	9	34	4,2	4	2	2	2	3	2	2	0	0	0	14	1,8	4	3	3	3	3	3	3	3	4	25	3,1								
5	5	3	1	2	2	5	7	9	34	4,2	5	2	2	2	3	2	2	0	0	0	14	1,8	5	3	3	3	3	3	3	3	4	25	3,1								
6	5	3	1	2	2	5	7	9	34	4,2	6	2	2	2	3	2	2	0	0	0	14	1,8	6	3	3	3	3	3	3	3	4	25	3,1								
7	5	3	1	2	2	5	7	9	34	4,2	7	2	2	2	3	2	2	0	0	0	14	1,8	7	3	3	3	3	3	3	3	4	25	3,1								
8	5	3	1	2	2	5	7	9	34	4,2	8	2	2	2	3	2	2	0	0	0	14	1,8	8	3	3	3	3	3	3	3	4	25	3,1								
9	5	3	1	2	2	5	7	9	34	4,2	9	2	2	2	3	2	2	0	0	0	14	1,8	9	3	3	3	3	3	3	3	4	25	3,1								
10	5	3	1	2	2	5	7	9	34	4,2	10	2	2	2	3	2	2	0	0	0	14	1,8	10	3	3	3	3	3	3	3	4	25	3,1								
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15	5	3	1	2	2	5	7	9	34	4,2	15	2	2	2	3	2	2	0	0	0	14	1,8	15	3	3	3	3	3	3	3	4	25	3,1								
16	5	3	1	2	2	5	7	9	34	4,2	16	2	2	2	3	2	2	0	0	0	14	1,8	16	3	3	3	3	3	3	3	4	25	3,1								
17	5	3	1	2	2	5	7	9	34	4,2	17	2	2	2	3	2	2	0	0	0	14	1,8	17	3	3	3	3	3	3	3	4	25	3,1								
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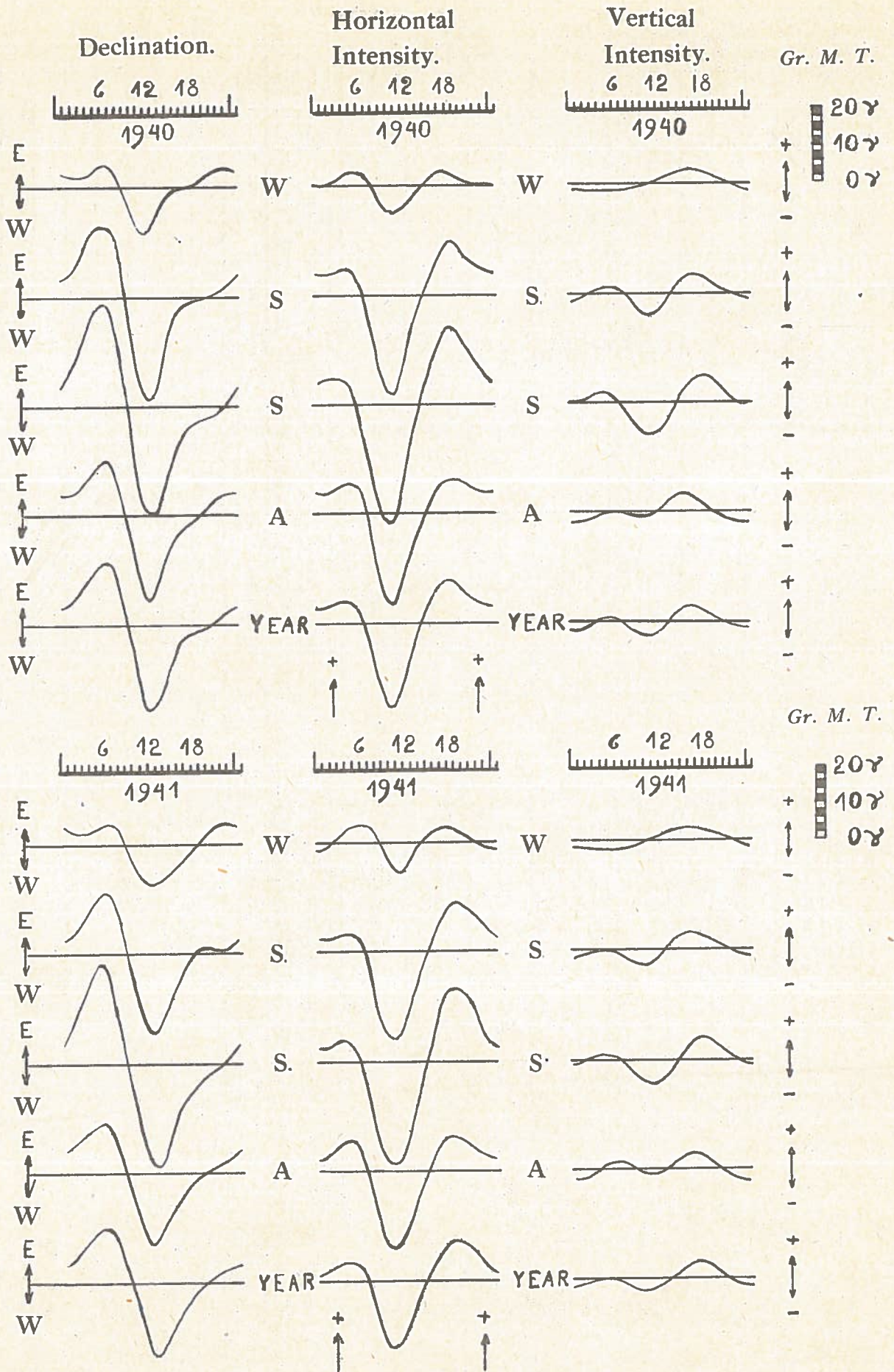


Fig. 1. Diurnal Variation for Quiet Days for *D*, *H* and *V* for the four Seasons in the years 1940 and 1941.

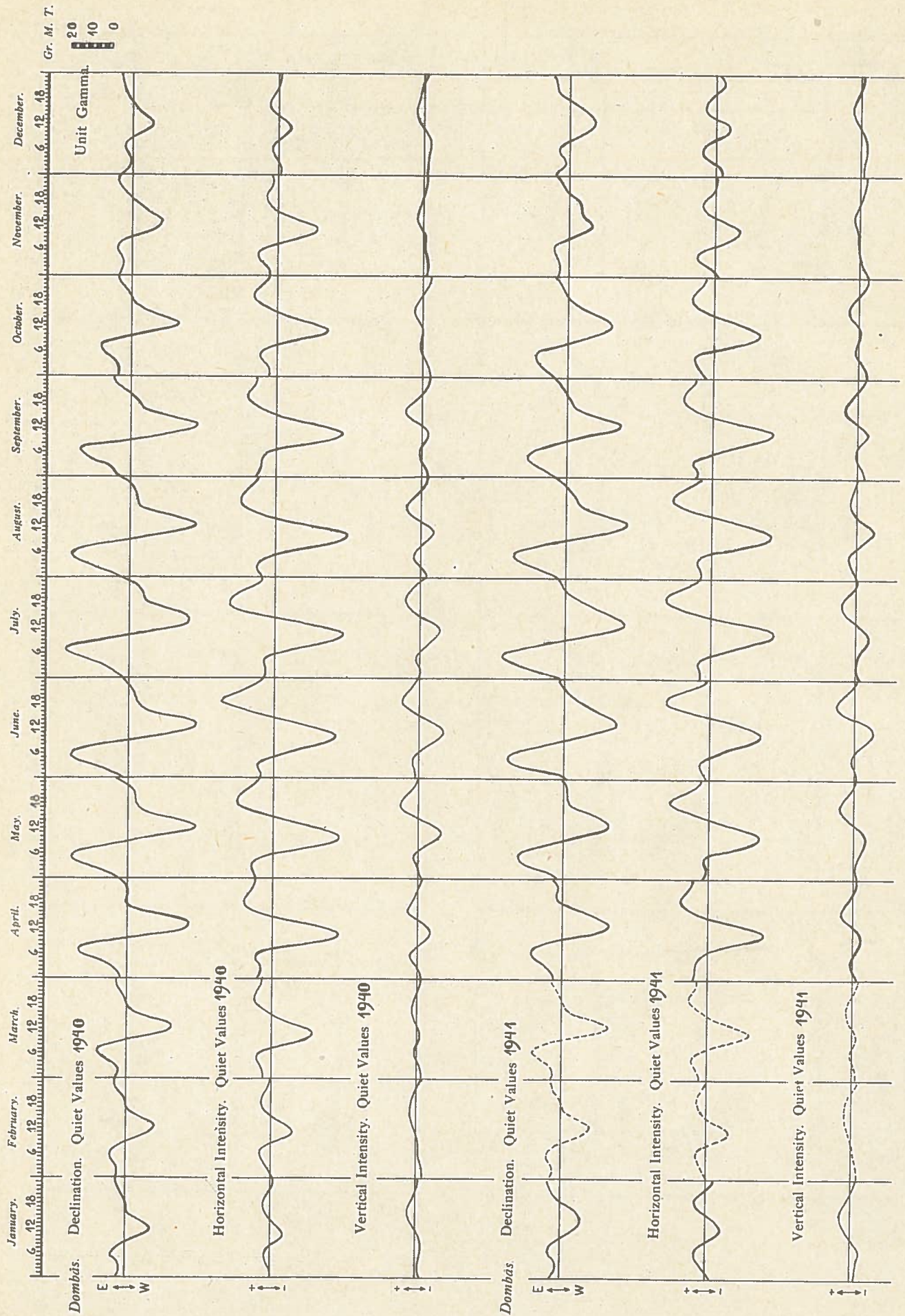


Fig. 2. Mean Monthly Values for Quiet Diurnal Variation for *D*, *H* and *V* for 1940 and 1941.

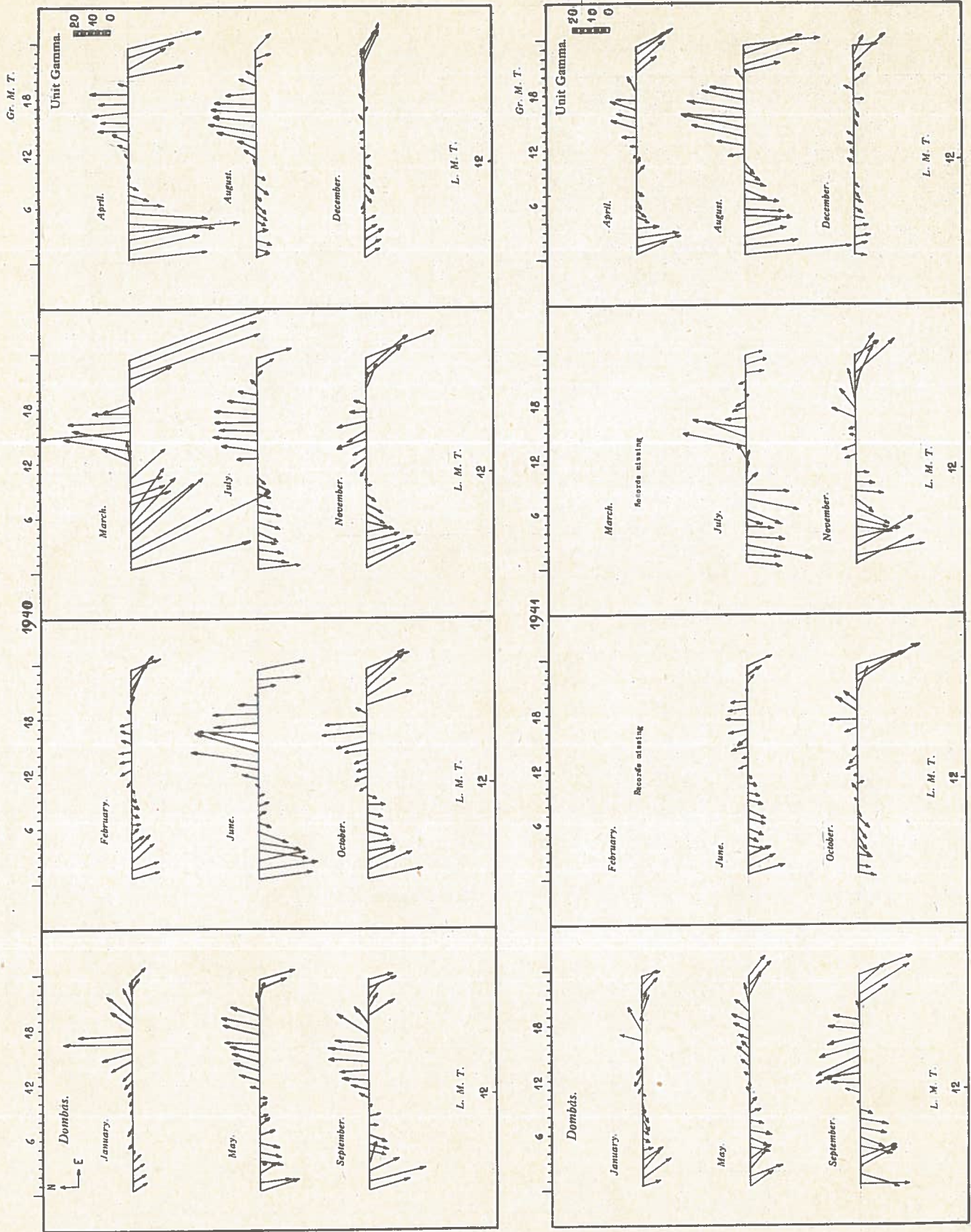


Fig. 3. Mean Monthly Values for Diurnal Variation of Storminess as Vector Diagrams for D and H for 1940 and 1941.

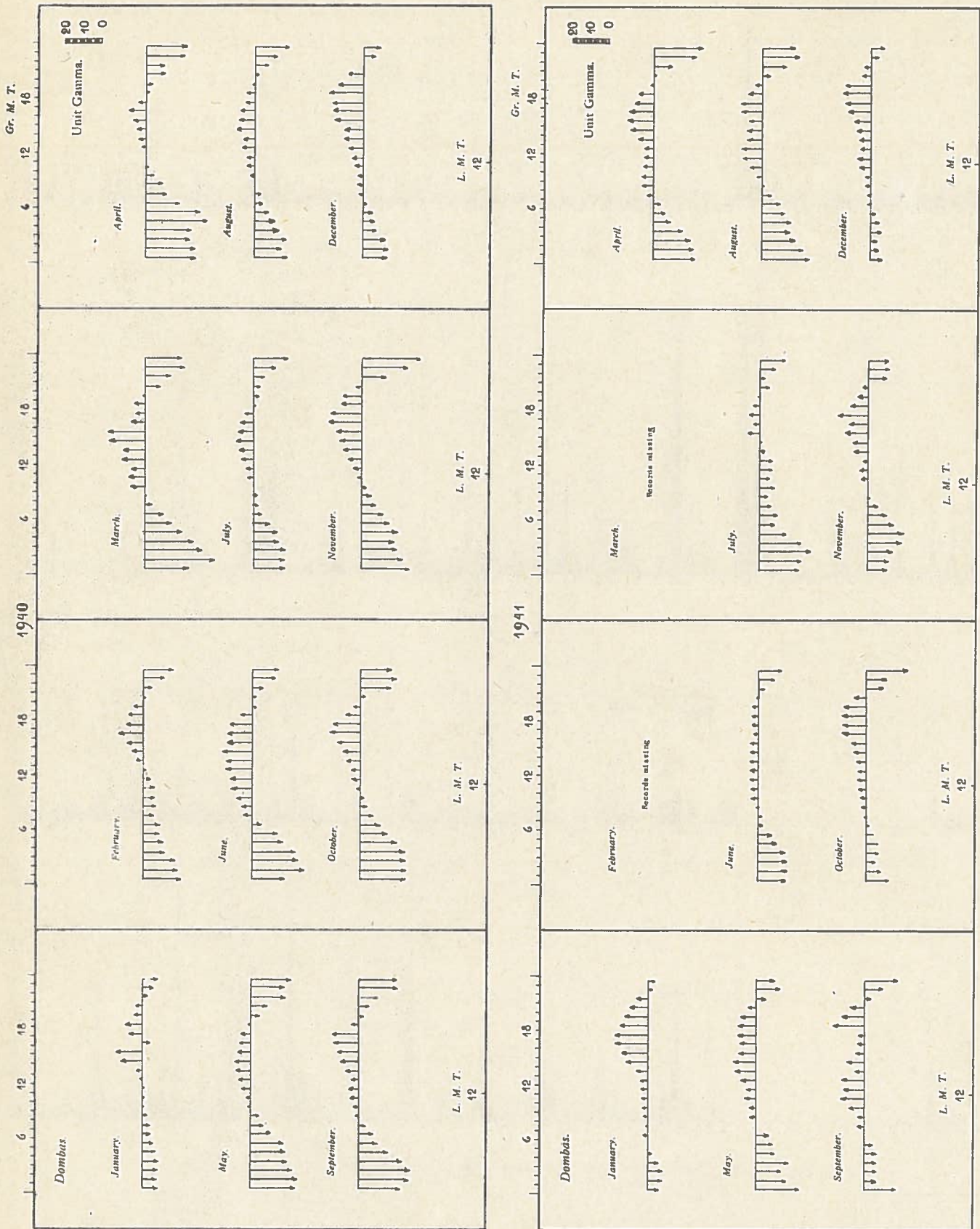


Fig. 4. Mean Monthly Values for Diurnal Variation for Storminess in the Vertical Intensity for 1940 and 1941.

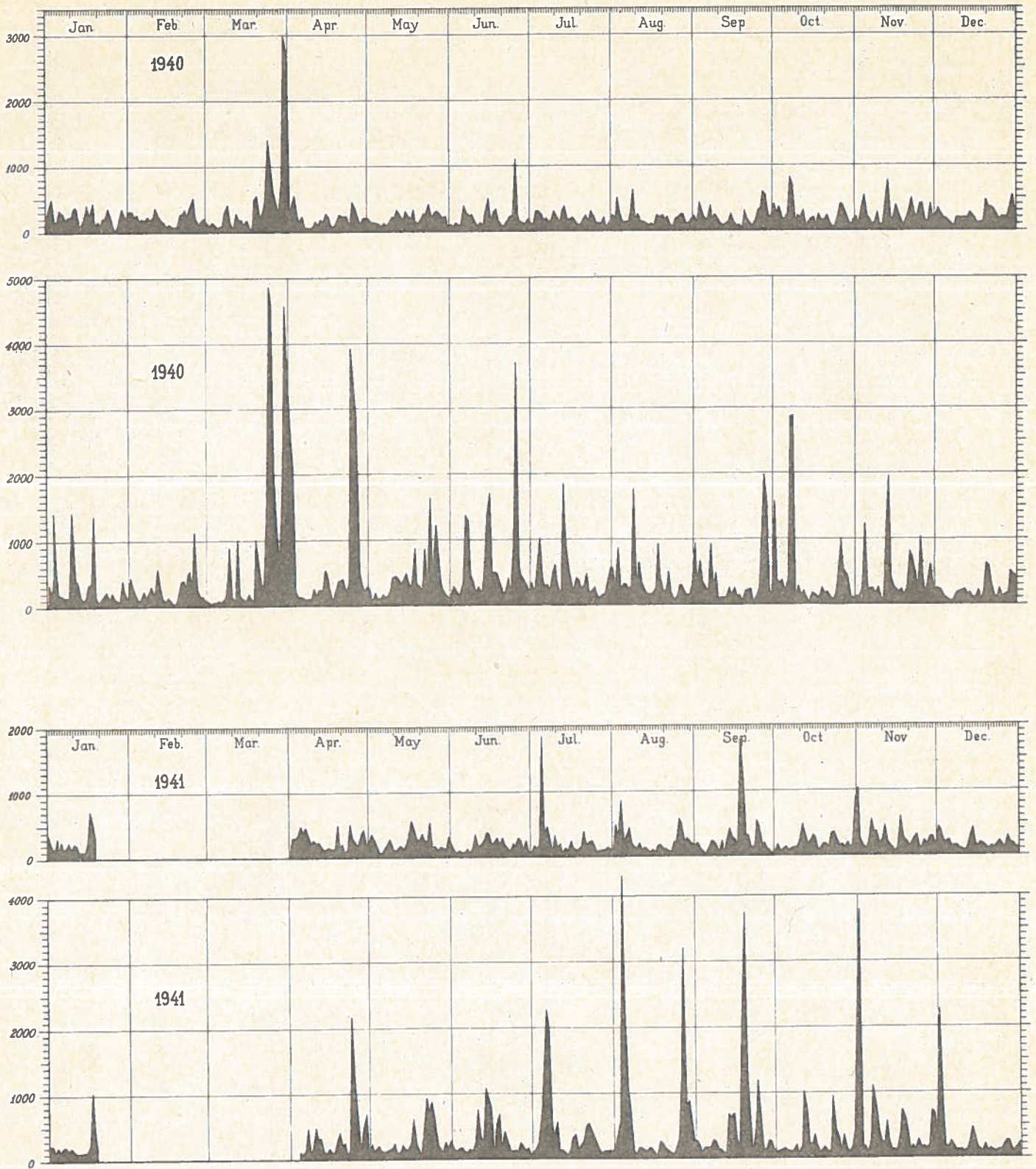
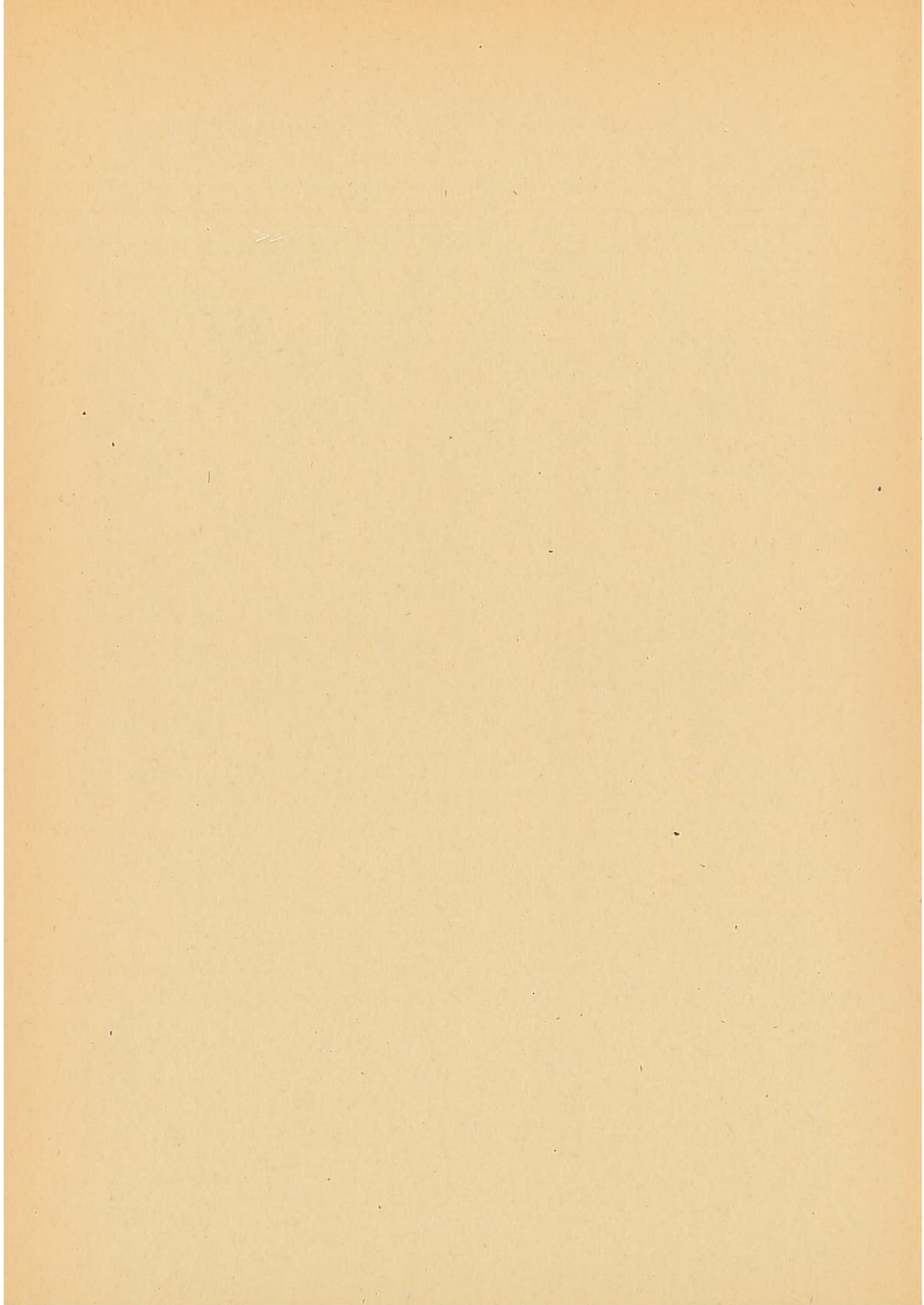


Fig. 5. Daily Values for Absolute Storminess for  $D$  and  $H$  for 1940 and 1941.



# Publikasjoner fra Det norske Institutt for Kosmisk Fysikk.

## Results from the Auroral Observatory.

### *Magnetic Yearbooks:*

No. 1, by The Executive Committee.

No. 2, by LEIV HARANG and O. KROGNESS.

No. 3—5, 7—8, 12, 14, 17, 19, 21 and 22 by LEIV HARANG and E. TØNSBERG.

### *Norwegian Publications from the International Polar Year 1932—1933:*

Work on Terrestrial Magnetism, Aurora and Allied Phenomena. Bergen 1935. No. 6.

### *Radio Yearbooks:*

No. 11 and No. 14. Results of Radio Echo Observations for 1935, 1936, 1937 and 1938 by LEIV HARANG.

## Results from Dombås Observatory.

### *Magnetic Yearbooks:*

No. 9 by O. KROGNESS and K. F. WASSERFALL and No. 13, 18 and 20 by B. TRUMPY and K. F. WASSERFALL.

### *Other Papers based on Magnetic Data for Dombås Observatory:*

No. 10. Some of the Most Characteristic Features of Magnetic Elements by K. F. WASSERFALL.

No. 16. Contribution to the Study of the Variation in Magnetic Elements by K. F. WASSERFALL

## Publications in other magazines.

### *Geofysiske Publikasjoner:*

No. 3, Vol. V. On periodic Variations in Terrestrial Magnetism by K. F. WASSERFALL.

Vol. VII. The scientific Results of the Norwegian Expedition in the Gjøa 1903—06 by AKSEL S. STEEN, NILS RUSSELTVEDT and K. F. WASSERFALL.

No. 2. Vol. XIII. The Horizontal Component of Magnetic Intensity at Oslo Observatory (Daily values at 9 and 14 o'clock) by K. F. WASSERFALL.

### *Bulletin de l'observatoire de Lyon:*

Tomo X, No. 4. 1928. Sur les variation périodique du magnetism terrestre by K. F. WASSERFALL

### *Zeitschrift für Gletscherkunde:*

B XX, heft 4/5. 1932. How the Brückner Cyclus may be explained, by K. F. WASSERFALL.

### *Transactions of the American Geophysical Union. Sixteenth Annual Meeting, 1935:*

The 27-day Period in Temperature data by K. F. WASSERFALL.

### *Det Kgl. Norske Videnskabers Skrifter:*

Trondhjem 1937. Studies on the Quiet Diurnal Variation of Magnetic Elements by B. TRUMPY and K. F. WASSERFALL.

### *»Naturen», Bergen (Norway):*

1928. Gjøaexpedisjonen og Roald Amundsens innsats som jordmagnetiker by K. F. WASSERFALL.

1932. Forsøk på å bestemme periodelengden i den sekulære variasjon for horizontalintensiteten i Oslo, by K. F. WASSERFALL.

1941. Solaktiviteten og dens syn- og målbare virkning på solen selv og på vår klode by K. F. WASSERFALL.

1942. Den Magnetiske Pol by K. F. WASSERFALL.

## Various Papers Published in Terrestrial Magnetism and Atmospheric Electricity by K. F. Wasserfall.

1. On the Annual Period of Magnetic Elements, 1937.
2. HANSTEENS Magnetic Instrument, 1937.
3. The Long Periodic Variation in the Diurnal Range of Magnetic Horizontal Component at Oslo Observatory, 1938.
4. On the Diurnal Variation of the Magnetic Pole, 1938.
5. Data for Absolute Storminess for the Polar Station Gjøahavn for the Year 1904, 1938.
6. Studies on the Magnetic Conditions in the Region between Gjøahavn and the Magnetic Pole, 1939.
7. On the Variation of Magnetic Character-Numbers at Dombås Observatory, 1940.
8. Magnetic Horizontal Intensity at Oslo 1843—1930, 1941.
9. New Magnetic Character-Numbers for the Polar Station Gjøahavn for 1904, 1941.
10. Comparison of Long Periodic Variations in Magnetic Elements and Air-Temperature, 1941.