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Nr. 12

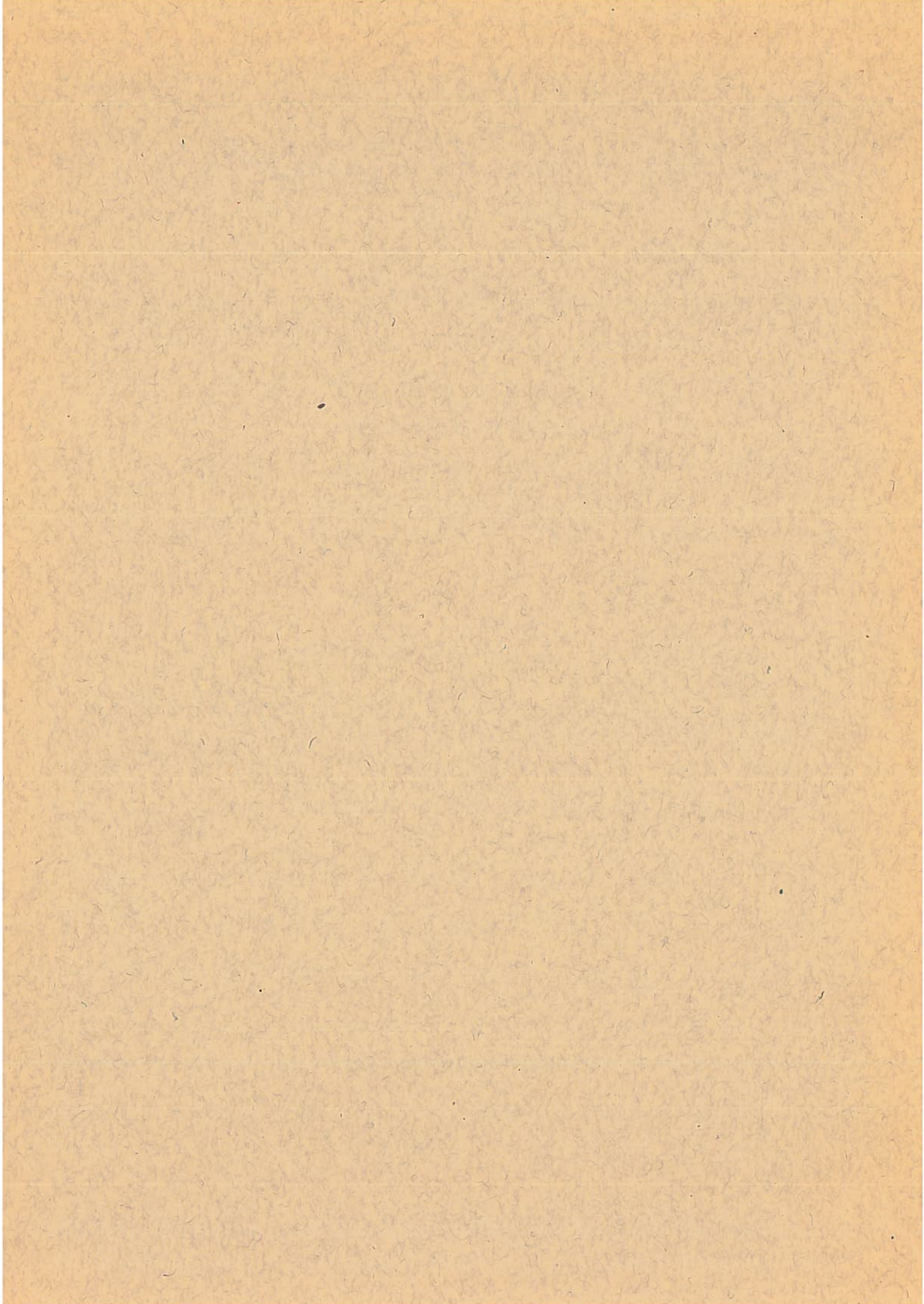
THE AURORAL OBSERVATORY AT TROMSØ
($\varphi = 69^{\circ} 39'.8$ N, $\lambda = 18^{\circ} 56'.9$ E Gr.)
RESULTS OF MAGNETIC OBSERVATIONS
FOR THE YEAR 1936

BY

LEIV HARANG and E. TÖNSBERG

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A.S JOHN GRIEGS BOKTRYKKERI, BERGEN



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GENERAL REMARKS

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

The observations have been made by E. TÖNSBERG. The reading of the hourly values and the calculation work have been performed by Miss ANNA PEDERSEN.

SCALE VALUES

The following scale-values have been determined:

| | |
|-----------|------------------------------|
| D-curves: | 1.45 or 4.81 γ per mm |
| H-curves | 5.00 γ per mm |
| V-curves: | 6.79 γ per mm |

BASE-LINE VALUES

The absolute measurements of Declination, Horizontal Intensity and Inclination result in the table given below of observed and adopted base-line values. The temporary disturbance in the D-values was caused by grain of fungus at the D-needle. The Vertical Intensity base-line value — 50.220 γ — used throughout the year is a result of 4 series of determinations each of 7 observations. We consider the value to be more or less safe, but intend having the earth-inductor compared as soon as possible so as to have the important question about the security of the Inclination measurements settled.

The temperature coefficient for the H-variometer is 8.0 γ per degree Celsius and for the V-variometer — 1.4 γ per degree Celsius.

OBSERVED AND ADOPTED BASE-LINE VALUES FOR *D*, *H*, AND *V*.

| Date | <i>D</i> observed | <i>D</i> adopted | <i>H</i> observed | <i>H</i> adopted | <i>V</i> observed | <i>V</i> adopted |
|---------|-------------------|------------------|-------------------|------------------|-------------------|------------------|
| I. 3 | 3° 10'.4 W | 3° 10'.4 W | 11 400 | 11 397 | | |
| 18 | 10.2 | .4 | 11 397 | 97 | | |
| II. 1 | 10.8 | .4 | 11 397 | 97 | | |
| 19 | 10.6 | .4 | 11 401 | 97 | | |
| III. 3 | 10.1 | .4 | 11 395 | 97 | | |
| 20 | 10.1 | .4 | 11 393 | 97 | | |
| IV. 7 | 10.4 | .4 | 11 401 | 97 | | |
| 27 | 10.5 | .4 | 11 398 | 97 | | |
| V. 4 | 10.3 | .4 | 11 395 | 97 | | |
| 26 | 10.5 | .4 | 11 398 | 97 | | |
| VI. 6 | 10.3 | .4 | 11 398 | 97 | | |
| 25 | 10.4 | .4 | 11 398 | 97 | | |
| VII. 15 | 10.4 | .4 | 11 393 | 97 | | |
| 22 | 10.4 | .4 | 11 393 | 97 | | |
| VIII. 4 | 11.4 | 11.4 | 11 396 | 97 | | |
| 20 | 16.3 | 16.3 | 11 394 | 97 | 50 219 | 50 220 |
| IX. 5 | | | 11 398 | 97 | | |
| 26 | 10.8 | 10.4 | 11 405 | 114 06 | | |
| X. 21 | 10.3 | .4 | 11 408 | 06 | | |
| 27 | 10.2 | .4 | | | | |
| XI. 3 | 10.4 | .4 | 11 416 | 114 15 | 50 224 | 220 |
| 10 | | | 11 415 | 15 | | |
| 21 | 10.3 | .4 | 11 414 | 15 | 50 220 | 220 |
| XII. 11 | 10.3 | .4 | 11 412 | 15 | 50 219 | 220 |
| 22 | 10.2 | .4 | 11 415 | 15 | | |

EXPLANATION OF THE TABLES

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

The second series of tables gives the hourly values of the *Storminess* («average perturbing force» or «activity»). As to the definition of the storminess and the method for separating it, we refer to No. 2 and No. 4 in the present series of publications. In the storminess tables the column headed *M* gives the diurnal means. The columns headed *PS*, *NS* and *AS* give the diurnal sum of the positive, negative and absolute storminess respectively. The column headed *C* gives the magnetic character numbers. We consider the diurnal sum of the absolute storminess as the best expression for the magnetic activity during a day, and we use this quantity for defining the character numbers. Only the strongest perturbed component, the Horizontal Intensity, is used in characterisation. Character number *0* comprises diurnal sum of the absolute storminess (*AS*)

up to 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.

TABLES

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

Gr. M. T.

JANUARY 1936.

HOURLY MEAN VALUES

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | M | R | |
|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|
| 1 | 65 | 15 | 60 | 65 | 80 | 80 | 95 | 110 | 120 | 130 | 150 | 150 | 120 | 130 | 140 | 130 | 120 | 120 | 60 | 130 | 110 | 90 | 90 | 120 | 100 | 15 |
| 2 | 90 | 90 | 80 | 80 | 80 | 80 | 100 | 110 | 110 | 125 | 125 | 120 | 110 | 120 | 135 | 130 | 110 | 110 | 110 | 110 | 100 | 120 | 120 | 95 | 110 | 23 |
| 3 | 65 | 75 | 80 | 80 | 80 | 80 | 90 | 95 | 105 | 110 | 120 | 120 | 110 | 110 | 120 | 120 | 110 | 125 | 110 | 80 | 100 | 90 | 90 | 95 | 100 | 17 |
| 4 | 70 | 70 | 70 | 80 | 80 | 80 | 90 | 95 | 100 | 105 | 110 | 110 | 120 | 110 | 110 | 110 | 105 | 100 | 105 | 95 | 80 | 90 | 80 | 70 | 95 | 4 |
| 5 | 75 | 75 | 80 | 80 | 80 | 80 | 90 | 95 | 100 | 100 | 100 | 110 | 110 | 120 | 110 | 105 | 110 | 110 | 100 | 105 | 95 | 105 | 100 | 80 | 100 | 6 |
| 6 | 80 | 80 | 80 | 80 | 80 | 80 | 90 | 95 | 100 | 100 | 105 | 125 | 120 | 120 | 145 | 155 | 150 | 145 | 130 | 100 | 100 | 100 | 90 | 80 | 110 | 10 |
| 7 | 80 | 105 | 110 | 120 | 105 | 105 | 100 | 100 | 105 | 110 | 110 | 110 | 120 | 120 | 120 | 110 | 110 | 110 | 110 | 105 | 90 | 90 | 80 | 65 | 105 | 9 |
| 8 | 80 | 80 | 110 | 100 | 100 | 120 | 120 | 100 | 110 | 120 | 140 | 160 | 150 | 180 | 240 | 240 | 180 | 200 | 70 | 80 | 70 | 60 | 30 | 0 | 120 | 100 |
| 9 | -20 | 0 | 30 | 100 | 100 | 150 | 110 | 110 | 120 | 140 | 110 | 110 | 150 | 130 | 120 | 110 | 110 | 150 | 140 | 150 | -60 | 0 | 0 | -60 | 80 | 83 |
| 10 | -80 | 90 | 90 | 110 | 120 | 120 | 150 | 120 | 120 | 130 | 140 | 140 | 150 | 150 | 120 | 180 | 180 | 120 | 180 | -30 | 60 | 90 | 70 | 60 | 110 | 129 |
| 11 | 80 | 100 | 90 | 90 | 100 | 100 | 100 | 110 | 100 | 150 | 150 | 150 | 130 | 140 | 110 | 20 | 120 | 60 | 90 | 80 | 80 | 80 | 80 | 90 | 110 | 29 |
| 12 | 80 | 80 | -10 | 20 | 80 | 110 | 120 | 130 | 150 | 160 | 150 | 140 | 180 | 210 | 120 | 160 | 60 | 70 | 30 | 30 | -120 | -20 | -10 | -40 | 80 | 57 |
| 13 | 0 | 10 | 20 | 0 | 80 | 130 | 150 | 150 | 150 | 120 | 150 | 130 | 110 | 120 | 140 | 70 | 80 | 140 | -60 | 0 | -180 | -10 | -30 | -80 | 60 | 55 |
| 14 | -70 | -120 | -40 | 30 | 60 | 90 | 100 | 110 | 120 | 90 | 120 | 120 | 110 | 120 | 120 | 110 | 120 | 70 | 100 | 110 | 100 | 90 | 0 | 0 | 70 | 45 |
| 15 | 10 | 40 | 50 | 100 | 90 | 140 | 120 | 120 | 110 | 110 | 110 | 110 | 120 | 130 | 120 | 100 | 110 | 50 | 100 | 80 | 100 | 80 | 30 | 0 | 85 | 26 |
| 16 | 40 | 100 | 100 | 105 | 105 | 100 | 95 | 95 | 95 | 90 | 105 | 110 | 110 | 110 | 110 | 110 | 105 | 105 | 90 | 90 | 80 | 80 | 50 | 45 | 90 | 16 |
| 17 | 30 | 50 | 60 | 80 | 75 | 70 | 90 | 105 | 110 | 90 | 100 | 105 | 105 | 95 | 100 | 100 | 105 | 105 | 100 | 95 | 95 | 90 | 60 | 30 | 85 | 12 |
| 18 | 80 | 100 | 90 | 70 | -30 | 60 | 50 | 80 | 100 | 150 | 120 | 190 | 160 | 210 | 210 | 220 | 210 | 150 | 300 | 320 | 120 | 100 | 70 | 80 | 130 | 117 |
| 19 | -10 | 50 | 40 | 80 | 70 | 90 | 90 | 120 | 100 | 120 | 120 | 130 | 120 | 180 | 160 | 180 | 170 | 150 | 120 | -150 | 20 | 110 | 90 | 90 | 59 | 90 |
| 20 | 80 | 70 | 100 | 90 | 100 | 105 | 110 | 105 | 100 | 100 | 100 | 110 | 120 | 145 | 145 | 160 | 180 | 210 | 220 | 225 | 15 | -70 | 15 | 40 | 110 | 65 |
| 21 | 30 | 30 | 30 | 70 | 50 | 80 | 80 | 80 | 110 | 100 | 100 | 120 | 120 | 150 | 180 | 150 | 160 | 180 | 210 | 210 | 130 | 30 | 90 | 20 | 100 | 120 |
| 22 | -240 | -210 | -180 | -60 | -10 | 20 | 90 | 150 | 110 | 170 | 150 | 130 | 180 | 210 | 210 | 180 | 210 | 240 | 170 | 210 | 210 | 30 | 30 | -30 | 80 | 20 |
| 23 | -30 | -10 | -10 | -30 | 90 | 130 | 110 | 110 | 150 | 160 | 150 | 150 | 150 | 130 | 120 | 150 | 130 | 110 | 110 | 110 | 100 | 100 | 80 | 80 | 105 | 23 |
| 24 | 20 | -290 | -60 | 50 | -70 | 90 | 100 | 110 | 120 | 140 | 120 | 160 | 150 | 150 | 140 | 140 | 150 | 230 | 320 | 330 | 270 | 210 | 30 | -20 | 110 | 129 |
| 25 | -230 | 0 | 70 | 30 | 110 | -60 | 50 | 150 | 100 | 70 | 150 | 170 | 90 | 180 | 210 | 140 | 140 | 120 | 90 | 90 | 70 | 80 | 80 | 60 | 70 | 84 |
| 26 | -210 | -530 | -110 | -30 | -30 | 50 | 70 | 190 | 170 | 180 | 120 | 240 | 110 | 170 | 150 | 90 | 100 | 110 | 90 | 80 | 120 | -240 | -30 | 110 | 40 | 123 |
| 27 | 50 | 70 | 80 | 30 | 50 | 60 | 90 | 110 | 100 | 110 | 130 | 150 | 180 | 180 | 150 | 150 | 50 | 90 | 80 | 70 | 80 | 30 | -170 | 80 | 62 | |
| 28 | -50 | -60 | -60 | -50 | 30 | 70 | 90 | 120 | 90 | 80 | 110 | 170 | 100 | 130 | 140 | 100 | 110 | 100 | 110 | 0 | 90 | 80 | 90 | 70 | 48 | |
| 29 | 70 | 75 | 70 | 80 | 80 | 80 | 80 | 90 | 100 | 105 | 110 | 110 | 105 | 90 | 90 | 110 | 160 | 160 | 75 | 110 | -90 | 75 | 30 | -150 | 61 | |
| 30 | -60 | 0 | -10 | 40 | 40 | 30 | 130 | 150 | 120 | 150 | 120 | 150 | 130 | 90 | 90 | 120 | 120 | 150 | 120 | 110 | 20 | -70 | -20 | 80 | 41 | |
| 31 | -150 | -120 | 30 | 70 | 80 | 80 | 80 | 100 | 90 | 100 | 150 | 130 | 110 | 110 | 110 | 130 | 80 | 90 | 130 | 110 | 40 | 50 | 90 | 20 | 70 | 84 |
| M | 0 | 5 | 35 | 55 | 50 | 85 | 100 | 110 | 110 | 120 | 120 | 135 | 130 | 140 | 140 | 130 | 130 | 125 | 120 | 110 | 65 | 60 | 50 | 30 | 90 | 57 |
| GM | 80 | 80 | 80 | 80 | 85 | 90 | 90 | 95 | 100 | 110 | 115 | 120 | 115 | 110 | 110 | 110 | 105 | 100 | 100 | 95 | 90 | 85 | 80 | 100 | 90 | 57 |

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 | -30 | 100 | 60 | 60 | 40 | 50 | 70 | 80 | 110 | 120 | 120 | 110 | 130 | 110 | 140 | 150 | 150 | 160 | 120 | 130 | 60 | 70 | 90 | 80 | 90 | 30 |
| 2 | 80 | 65 | 65 | 70 | 75 | 80 | 80 | 90 | 100 | 105 | 125 | 110 | 120 | 120 | 110 | 175 | 190 | 450 | 300 | 390 | 195 | 120 | 60 | -120 | 130 | 128 |
| 3 | -90 | -80 | -20 | -40 | -60 | -70 | 30 | 100 | 170 | 140 | 110 | 130 | 160 | 140 | 110 | 120 | 130 | 130 | 100 | 100 | 100 | 100 | 80 | 50 | 65 | 35 |
| 4 | 80 | 70 | 80 | 60 | 90 | 80 | 80 | 80 | 80 | 210 | 210 | 210 | 180 | 160 | 130 | 160 | 140 | 160 | 110 | 80 | 80 | 30 | 50 | 50 | 110 | 29 |
| 5 | 60 | 70 | 60 | 40 | 60 | 70 | 70 | 80 | 90 | 100 | 100 | 120 | 130 | 140 | 110 | 110 | 130 | 110 | 100 | 110 | 80 | 80 | 20 | 85 | 20 | 29 |
| 6 | 30 | 10 | 30 | 60 | 80 | 100 | 100 | 90 | 90 | 90 | 95 | 110 | 120 | 110 | 110 | 120 | 125 | 105 | 140 | 145 | 125 | 70 | 40 | 90 | 20 | 22 |
| 7 | 90 | 90 | 90 | 95 | 95 | 100 | 105 | 100 | 120 | 130 | 120 | 110 | 110 | 105 | 110 | 110 | 105 | 110 | 90 | 80 | 90 | 80 | 50 | 40 | 100 | 22 |
| 8 | 50 | 50 | 75 | 80 | 80 | 80 | 80 | 90 | 110 | 100 | 120 | 110 | 120 | 125 | 110 | 105 | 105 | 105 | 150 | 195 | 130 | -90 | 70 | 95 | 74 | |
| 9 | 80 | 70 | 80 | 80 | 180 | 180 | 200 | 160 | 170 | 180 | 200 | 180 | 220 | 140 | 130 | 90 | 80 | -20 | 120 | 110 | 30 | 0 | 100 | -90 | 88 | |
| 10 | -180 | 0 | -290 | 30 | 90 | 100 | 120 | 120 | 140 | 180 | 110 | 150 | 160 | 140 | 150 | 180 | -180 | 170 | 110 | -60 | 0 | 110 | -240 | -60 | 30 | 102 |
| 11 | -90 | -10 | 30 | 50 | 60 | 110 | 120 | 150 | 120 | 120 | 130 | 140 | 150 | 120 | 90 | 110 | 100 | 80 | 80 | 70 | 70 | 90 | 70 | 60 | 80 | 33 |
| 12 | 65 | 60 | 65 | 70 | 80 | 80 | 75 | 80 | 80 | 90 | 95 | 95 | 110 | 90 | 120 | 110 | 110 | 125 | 60 | 105 | 95 | 80 | 80 | 80 | 90 | 13 |
| 13 | 80 | 80 | 80 | 80 | 90 | 90 | 95 | 100 | 100 | 110 | 110 | 110 | 120 | 100 | 105 | 90 | 90 | 80 | 90 | 90 | 75 | 75 | 80 | 75 | 90 | 9 |
| 14 | 105 | 60 | 80 | 75 | 80 | 90 | 90 | 105 | 105 | 130 | 135 | 50 | 145 | 150 | 195 | 255 | 300 | 160 | 145 | 30 | 0 | 10 | 20 | 110 | 75 | |
| 15 | 0 | -60 | -100 | -20 | 40 | 60 | 70 | 80 | 80 | 70 | 80 | 90 | 130 | 150 | 110 | 160 | 210 | 270 | 150 | 90 | 60 | -120 | -150 | -150 | 50 | 70 |
| 16 | -330 | -20 | 0 | 80 | 110 | 150 | 150 | 110 | 110 | 150 | 150 | 90 | 60 | 260 | 170 | 140 | 170 | 240 | 200 | 210 | 110 | -150 | -20 | 30 | 85 | 113 |
| 17 | -40 | -180 | -150 | -140 | -110 | 20 | 60 | 90 | 120 | 110 | 200 | 210 | 240 | 230 | 300 | 90 | 60 | 300 | -210 | -30 | 80 | -150 | -210 | -30 | 178 | 30 |
| 18 | -20 | -120 | -20 | 60 | 40 | 120 | 130 | 130 | 100 | 120 | 140 | 140 | 140 | 150 | 140 | 130 | 110 | 120 | 190 | 150 | 60 | 30 | 50 | 70 | 85 | 45 |
| 19 | 40 | 10 | -30 | 0 | 40 | 70 | 80 | 120 | 100 | 140 | 150 | 170 | 180 | 210 | 170 | 230 | 240 | 390 | 570 | 230 | -20 | -150 | -150 | 150 | 150 | 151 |
| 20 | -30 | -60 | -120 | 30 | 40 | 80 | 70 | 100 | 110 | 100 | 110 | 110 | 110 | 100 | 110 | 80 | 80 | 80 | 80 | -50 | 110 | 60 | 60 | -20 | 50 | 103 |
| 21 | -10 | -30 | -40 | -20 | 0 | 80 | 110 | 150 | 130 | 150 | 150 | 150 | 150 | 210 | 210 | 270 | 270 | 240 | 300 | 150 | 210 | 0 | 110 | 90 | 125 | 116 |
| 22 | 0 | -180 | -120 | -230 | -80 | 100 | 80 | 130 | 90 | 90 | 120 | 140 | 190 | 180 | 110 | 150 | 180 | 110 | 90 | 100 | 20 | -240 | -60 | -90 | 35 | 145 |
| 23 | 20 | -30 | 0 | 60 | 50 | 60 | 90 | 90 | 140 | 110 | 100 | 120 | 150 | 0 | 60 | 140 | 90 | 300 | 210 | 90 | 30 | 80 | 60 | -420 | 70 | 131 |
| 24 | -120 | -120 | -110 | -50 | 30 | | | | | | | | | | | | | | | | | | | | | |

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JANUARY 1936.

HOURLY MEAN VALUES

Table for January 1936 showing hourly mean values for declination and storminess. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS).

FEBRUARY

Table for February showing hourly mean values for declination and storminess. Columns include Day (1-29), hours (1-24), and summary statistics (M, PS, NS, AS).

MARCH

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

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

Gr. M. T.

APRIL 1936.

HOURLY MEAN VALUES

Table for April 1936 showing hourly mean values for days 1 to 30. Columns include Day, hours 1-23, M, and R.

MAY

Table for May showing hourly mean values for days 1 to 31. Columns include Day, hours 1-23, M, and R.

JUNE

Table for June showing hourly mean values for days 1 to 30. Columns include Day, hours 1-23, M, and R.

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

APRIL 1936.

HOURLY MEAN VALUES

Table for April 1936 showing hourly mean values for declination, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS.

MAY

Table for May 1936 showing hourly mean values for declination, storminess, and unit gamma. Columns include Day (1-31), M, PS, NS, AS.

JUNE

Table for June 1936 showing hourly mean values for declination, storminess, and unit gamma. Columns include Day (1-30), M, PS, NS, AS.

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

Gr. M. T.

JULY 1936.

HOURLY MEAN VALUES

Table for July 1936 showing hourly mean values for declination. Columns include Day (1-31), M, and R. Values range from -300 to 300.

AUGUST

Table for August showing hourly mean values for declination. Columns include Day (1-31), M, and R. Values range from -230 to 142.

SEPTEMBER

Table for September showing hourly mean values for declination. Columns include Day (1-30), M, and R. Values range from -240 to 34.

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

JULY 1936.

HOURLY MEAN VALUES

Table for July 1936 showing hourly mean values for declination and storminess. Columns include Day (1-31), M, PS, NS, AS, and summary rows for MPS and MNS.

AUGUST

Table for August 1936 showing hourly mean values for declination and storminess. Columns include Day (1-31), M, PS, NS, AS, and summary rows for MPS and MNS.

SEPTEMBER

Table for September 1936 showing hourly mean values for declination and storminess. Columns include Day (1-30), M, PS, NS, AS, and summary rows for MPS and MNS.

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

Gr. M. T.

OKTOBER 1936.

HOURLY MEAN VALUES

Table for October 1936 showing hourly mean values for declination. Columns include Day (1-31), M, and R. Values range from -165 to 102.

NOVEMBER

Table for November showing hourly mean values for declination. Columns include Day (1-30), M, and R. Values range from -110 to 170.

DECEMBER

Table for December showing hourly mean values for declination. Columns include Day (1-31), M, and R. Values range from -110 to 40.

Tromsø.

Declination. Storminess (+ W). Unit Gamma.

Gr. M. T.

OKTOBER 1936.

HOURLY MEAN VALUES

Table for October 1936 showing magnetic declination and storminess data for Tromsø. Columns include Day (1-31), declination values (1-23), M, PS, NS, and AS.

NOVEMBER

Table for November 1936 showing magnetic declination and storminess data for Tromsø. Columns include Day (1-30), declination values (1-23), M, PS, NS, and AS.

DECEMBER

Table for December 1936 showing magnetic declination and storminess data for Tromsø. Columns include Day (1-31), declination values (1-23), M, PS, NS, and AS.

Tromsø. Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JANUARY 1956. HOURLY MEAN VALUES

Table for January 1956 showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and summary rows M and QM.

FEBRUARY

Table for February 1956 showing hourly mean values for horizontal intensity. Columns include Day (1-29), hours (1-24), and summary rows M and QM.

MARCH

Table for March 1956 showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and summary rows M and QM.

Tromsø.

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

Gr. M. T.

JANUARY 1936.

HOURLY MEAN VALUES

Table for January 1936 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), M, PS, NS, AS, CH, and summary rows for MPS and MNS.

FEBRUARY

Table for February 1936 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-29), M, PS, NS, AS, CH, and summary rows for MPS and MNS.

MARCH

Table for March 1936 showing hourly mean values for magnetic intensity and storminess. Columns include Day (1-31), M, PS, NS, AS, CH, and summary rows for MPS and MNS.

Tromsø. Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1936.

HOURLY MEAN VALUES

Table for April 1936 showing hourly mean values for horizontal intensity. Columns include Day (1-30), hours (1-24), and monthly totals (M, R). Values range from -36 to 505.

MAY

Table for May 1936 showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and monthly totals (M, R). Values range from -5 to 700.

JUNE

Table for June 1936 showing hourly mean values for horizontal intensity. Columns include Day (1-30), hours (1-24), and monthly totals (M, R). Values range from -9 to 850.

Tromsö.

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

Gr. M. T.

APRIL 1936.

HOURLY MEAN VALUES

Table for April 1936 showing magnetic observations. Columns include Day (1-30), 24 hours of hourly values, and summary statistics (M, PS, NS, AS, CH). Summary values: M=-135, PS=640, NS=1038, AS=1578, CH=1.3.

MAY

Table for May 1936 showing magnetic observations. Columns include Day (1-31), 24 hours of hourly values, and summary statistics (M, PS, NS, AS, CH). Summary values: M=-105, PS=524, NS=772, AS=1297, CH=1.2.

JUNE

Table for June 1936 showing magnetic observations. Columns include Day (1-30), 24 hours of hourly values, and summary statistics (M, PS, NS, AS, CH). Summary values: M=-109, PS=394, NS=716, AS=1110, CH=1.1.

Tromsø. Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1936.

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 | 53 | 95 | 112 | 107 | 98 | 90 | 82 | 75 | 72 | 68 | 70 | 78 | 98 | 102 | 107 | 118 | 120 | 115 | 112 | 117 | 117 | 118 | 100 | 93 | 96 | 75 |
| 2 | 120 | 122 | 120 | 127 | 98 | 88 | 87 | 87 | 158 | 225 | 355 | 600 | 650 | 575 | 600 | 435 | 220 | 233 | 110 | -140 | 15 | -10 | -68 | -95 | 196 | 935 |
| 3 | -72 | -200 | 93 | 90 | 87 | 102 | 83 | 78 | 73 | 95 | 78 | 98 | 147 | 225 | 178 | 78 | 110 | 145 | 148 | 130 | 138 | 115 | 80 | 62 | 85 | 560 |
| 4 | 87 | 88 | 88 | 83 | 85 | 82 | 75 | 67 | 68 | 68 | 75 | 70 | 96 | 97 | 90 | 100 | 120 | 112 | 130 | 138 | 115 | 80 | 62 | 85 | 90 | 115 |
| 5 | 95 | 98 | 102 | 72 | 70 | 78 | 82 | 67 | 65 | 110 | 218 | 325 | 310 | 320 | 252 | 232 | 167 | 200 | 140 | 118 | 108 | 82 | 65 | 43 | 143 | 1080 |
| 6 | -345 | -360 | -180 | 75 | 107 | 97 | 53 | 50 | 58 | 40 | 105 | 260 | 525 | 430 | 395 | 350 | 235 | 112 | 132 | 122 | 42 | -150 | -260 | -280 | 67 | 1075 |
| 7 | -480 | -340 | -40 | 25 | 120 | 107 | 90 | 78 | 75 | 82 | 105 | 60 | 178 | 150 | 110 | 92 | 123 | 178 | 158 | 120 | 80 | 78 | 67 | 0 | 51 | 825 |
| 8 | -175 | -50 | 35 | 80 | 60 | 87 | 92 | 80 | 83 | 75 | 85 | 85 | 62 | 90 | 115 | 98 | 120 | 143 | 128 | -160 | 70 | 50 | 120 | 5 | 57 | 450 |
| 9 | 53 | 92 | 102 | 100 | 93 | 78 | 72 | 68 | 75 | 67 | 68 | 50 | 73 | 135 | 150 | 205 | 220 | 160 | 140 | 142 | 55 | 50 | 5 | -48 | 92 | 340 |
| 10 | -205 | -5 | 70 | 97 | 40 | 20 | 53 | 87 | 67 | 70 | 75 | 80 | 102 | 163 | 250 | 380 | 260 | 180 | 125 | -60 | -195 | -180 | -240 | -340 | 37 | 925 |
| 11 | -300 | -310 | -320 | -40 | 160 | 110 | 82 | 92 | 115 | 140 | 188 | 240 | 270 | 250 | 330 | 220 | 195 | 190 | 158 | 78 | 75 | 5 | 10 | 10 | 81 | 1050 |
| 12 | 55 | -60 | 40 | 95 | 100 | 100 | 97 | 82 | 78 | 70 | 70 | 72 | 73 | 75 | 98 | 115 | 120 | 148 | 170 | 127 | 38 | 220 | -30 | -78 | 78 | 520 |
| 13 | -18 | 35 | -90 | -40 | 30 | 45 | 100 | 100 | 97 | 108 | 110 | 165 | 272 | 250 | 230 | 210 | 165 | 158 | 40 | 65 | 102 | 95 | 80 | 80 | 100 | 480 |
| 14 | 72 | 93 | 97 | 95 | 83 | 73 | 73 | 68 | 67 | 63 | 80 | 83 | 80 | 90 | 98 | 130 | 163 | 158 | 132 | 102 | 30 | 17 | 60 | 73 | 87 | 195 |
| 15 | 68 | 80 | 98 | 92 | 97 | 80 | 75 | 78 | 78 | 72 | 70 | 90 | 73 | 93 | 105 | 102 | 107 | 110 | 118 | 112 | 118 | 73 | 68 | 12 | 86 | 170 |
| 16 | 65 | 83 | -130 | -200 | -148 | -58 | 70 | 98 | 82 | 70 | 77 | 97 | 105 | 140 | 160 | 135 | 135 | 148 | 177 | 122 | 132 | 85 | 97 | -30 | 63 | 700 |
| 17 | 10 | 0 | -250 | -103 | 105 | 100 | 88 | 87 | 85 | 90 | 107 | 125 | 132 | 137 | 168 | 150 | 180 | 178 | 30 | 82 | 115 | 118 | 130 | 86 | 530 | |
| 18 | 45 | 50 | 30 | 52 | 95 | 93 | 88 | 78 | 68 | 60 | 75 | 90 | 120 | 145 | 173 | 120 | 110 | 123 | 108 | 75 | 97 | 70 | 67 | 87 | 225 | 60 |
| 19 | 30 | 5 | 50 | 93 | 95 | 88 | 83 | 90 | 75 | 63 | 72 | 100 | 120 | 160 | 205 | 148 | 132 | 105 | 112 | 100 | 97 | 70 | 15 | -5 | 88 | 315 |
| 20 | 17 | -10 | 62 | 78 | 80 | 60 | 73 | 82 | 70 | 68 | 72 | 97 | 110 | 110 | 183 | 187 | 205 | 140 | 125 | 110 | 92 | 90 | 87 | 92 | 95 | 320 |
| 21 | 88 | 80 | 78 | 95 | 95 | 90 | 82 | 70 | 63 | 60 | 60 | 78 | 80 | 95 | 95 | 110 | 128 | 135 | 148 | 125 | 103 | 68 | 78 | 78 | 91 | 55 |
| 22 | 90 | 98 | 98 | 88 | 87 | 87 | 88 | 83 | 78 | 60 | 48 | 68 | 88 | 125 | 132 | 120 | 115 | 113 | 117 | 113 | 85 | -58 | 10 | 86 | 260 | 60 |
| 23 | 85 | 102 | 98 | 97 | 93 | 92 | 78 | 68 | 55 | 58 | 55 | 68 | 70 | 78 | 85 | 92 | 97 | 100 | 103 | 110 | 110 | 107 | 102 | 100 | 80 | 60 |
| 24 | 100 | 98 | 97 | 107 | 108 | 98 | 88 | 40 | 73 | 65 | 62 | 75 | 73 | 102 | 95 | 98 | 113 | 128 | 127 | 125 | 118 | 90 | 88 | 80 | 95 | 95 |
| 25 | 52 | 72 | 90 | 87 | 82 | 77 | 80 | 75 | 73 | 62 | 85 | 87 | 95 | 138 | 110 | 110 | 100 | 102 | 115 | 118 | 90 | -55 | -40 | 65 | 78 | 340 |
| 26 | 65 | -25 | 10 | 87 | 95 | 90 | 82 | 73 | 58 | 58 | 60 | 73 | 87 | 100 | 122 | 115 | 117 | 110 | 110 | 107 | 95 | 97 | 87 | 83 | 81 | 190 |
| 27 | 80 | 87 | 97 | 100 | 95 | 90 | 85 | 80 | 87 | 62 | 60 | 73 | 100 | 170 | 205 | 200 | 170 | 152 | 175 | 70 | -40 | 63 | 20 | -75 | 91 | 345 |
| 28 | -170 | -145 | -30 | 35 | 97 | 98 | 83 | 73 | 65 | 63 | 75 | 85 | 92 | 95 | 118 | 117 | 110 | 123 | 127 | 125 | 110 | 102 | 98 | 103 | 69 | 365 |
| 29 | 108 | 108 | 107 | 102 | 97 | 90 | 83 | 87 | 68 | 83 | 98 | 143 | 290 | 370 | 530 | 380 | 370 | 210 | 100 | 15 | 40 | 27 | -140 | -75 | 137 | 855 |
| 30 | -60 | -25 | -130 | -170 | -40 | 100 | 75 | 70 | 40 | 60 | 73 | 90 | 90 | 88 | 100 | 102 | 102 | 102 | 102 | 100 | 93 | 87 | 90 | 51 | 360 | 51 |
| 31 | 88 | 93 | 93 | 92 | 90 | 85 | 82 | 78 | 70 | 80 | 107 | 92 | 78 | 102 | 132 | 133 | 215 | 210 | 170 | 127 | 103 | -30 | -130 | -70 | 87 | 645 |
| M | -10 | 2 | 23 | 57 | 79 | 81 | 81 | 79 | 75 | 78 | 93 | 122 | 152 | 168 | 182 | 173 | 157 | 146 | 128 | 78 | 71 | 55 | 23 | 9 | 88 | 466 |
| QM | 98 | 98 | 97 | 95 | 93 | 87 | 80 | 72 | 65 | 62 | 60 | 68 | 70 | 78 | 85 | 92 | 97 | 100 | 105 | 110 | 110 | 107 | 103 | 100 | 89 | |

AUGUST

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | M | R | |
|-----|------|------|------|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|
| 1 | -180 | -210 | -125 | 30 | 60 | 82 | 88 | 96 | 87 | 78 | 65 | 78 | 72 | 80 | 95 | 120 | 140 | 143 | 150 | 107 | 90 | 78 | 68 | -20 | 53 | 510 |
| 2 | -20 | 25 | 70 | 87 | 87 | 90 | 85 | 80 | 80 | 68 | 68 | 65 | 80 | 92 | 98 | 120 | 123 | 125 | 128 | 122 | 88 | -175 | 85 | -100 | 70 | 415 |
| 3 | 95 | 80 | 80 | 102 | 90 | 90 | 85 | 77 | 70 | 63 | 65 | 78 | 102 | 135 | 165 | 145 | 112 | 108 | 125 | 142 | 125 | -15 | -15 | 57 | 90 | 295 |
| 4 | 60 | 30 | 65 | 45 | 48 | 50 | 80 | 90 | 78 | 70 | 87 | 73 | 75 | 85 | 93 | 102 | 102 | 102 | 102 | 102 | 98 | 98 | 98 | 81 | 110 | 80 |
| 5 | 98 | 87 | 88 | 90 | 98 | 90 | 80 | 78 | 60 | 70 | 87 | 125 | 160 | 305 | 250 | 210 | 130 | 185 | 153 | 95 | -50 | -10 | -50 | -165 | 94 | 595 |
| 6 | -320 | -240 | -125 | 20 | 40 | 40 | 40 | 90 | 77 | 78 | 93 | 130 | 123 | 158 | 137 | 168 | 150 | 180 | 178 | 30 | 82 | 115 | 118 | 130 | 86 | 605 |
| 7 | 98 | 98 | 98 | 95 | 90 | 83 | 75 | 67 | 68 | 70 | 72 | 73 | 78 | 80 | 88 | 90 | 97 | 110 | 113 | 120 | 100 | 98 | 85 | 78 | 89 | 75 |
| 8 | 35 | 73 | 83 | 90 | 88 | 80 | 73 | 60 | 58 | 55 | 70 | 65 | 90 | 140 | 130 | 145 | 153 | 235 | 175 | 165 | -130 | -120 | 110 | 85 | 84 | 250 |
| 9 | 78 | 48 | 10 | 10 | 80 | 62 | 68 | 70 | 68 | 75 | 95 | 140 | 195 | 195 | 245 | 260 | 230 | 170 | 160 | 140 | 37 | 50 | 35 | -60 | 103 | 320 |
| 10 | -95 | -80 | -20 | 0 | 25 | 43 | 70 | 75 | 68 | 70 | 98 | 170 | 275 | 220 | 160 | 140 | 137 | 130 | 112 | 100 | 92 | 82 | 78 | 75 | 84 | 455 |
| 11 | 70 | 62 | 70 | 90 | 88 | 78 | 70 | 63 | 67 | 67 | 58 | 68 | 80 | 90 | 105 | 100 | 105 | 135 | 145 | 112 | 97 | 88 | 83 | 83 | 86 | 115 |
| 12 | 83 | 90 | 90 | 88 | 88 | 88 | 88 | 82 | 78 | 60 | 55 | 67 | 75 | 80 | 130 | 115 | 140 | 130 | 128 | 128 | 80 | 83 | -45 | -140 | 78 | 435 |
| 13 | 80 | 100 | 90 | 62 | 70 | 82 | 73 | 62 | 50 | 70 | 72 | 67 | 67 | 95 | 98 | 112 | 112 | 125 | 128 | 120 | 130 | 95 | 98 | 82 | 89 | 95 |
| 14 | 85 | 93 | 93 | 95 | 90 | 85 | 78 | 70 | 63 | 58 | 58 | 63 | 75 | 93 | 103 | 105 | 120 | 118 | 120 | 103 | 112 | 110 | 97 | 83 | 91 | 90 |
| 15 | 95 | 82 | 85 | 88 | 88 | 80 | 77 | 77 | 75 | 65 | 55 | 48 | 70 | 125 | 123 | 110 | 103 | 98 | 100 | 108 | 100 | 40 | 53 | 80 | 84 | 190 |
| 16 | 67 | -28 | 45 | 92 | 90 | 87 | 82 | 82 | 77 | 63 | 60 | 67 | 78 | 68 | 97 | 102 | 135 | 160 | 155 | 85 | 63 | 35 | 40 | 30 | 77 | 245 |
| 17 | 15 | -10 | 25 | 70 | 105 | 100 | 88 | 75 | 60 | 52 | 50 | 55 | 68 | 75 | 83 | 98 | 125 | 155 | 140 | 190 | 100 | 60 | -5 | 40 | 73 | 205 |
| 18 | 45 | 65 | 90 | 93 | 92 | 90 | 85 | 77 | 67 | 57 | 57 | 65 | 90 | 92 | 92 | 102 | 102 | 102 | 102 | 100 | 97 | 95 | 97 | 97 | 85 | 65 |
| 19 | 88 | 93 | 98 | 98 | 92 | 90 | 78 | 68 | 53 | 43 | 53 | 65 | 83 | 103 | 118 | 125 | 125 | 110 | 110 | 108 | 98 | 93 | 92 | 92 | 91 | 90 |
| 20 | 93 | 93 | 95 | 92 | 88 | 85 | 80 | 73 | 68 | 68 | 70 | 60 | 75 | 95 | 135 | 178 | 175 | 178 | 135 | 80 | 20 | -30 | 0 | -30 | 82 | 345 |
| 21 | -140 | -30 | 80 | 98 | 95 | 88 | 77 | 67 | 58 | 68 | 68 | 75 | 88 | 130 | 135 | 110 | 85 | 85 | 88 | 90 | 97 | 93 | 97 | 80 | 74 | 360 |
| 22 | 50 | 10 | 40 | 72 | 80 | 78 | 70 | 67 | 50 | 50 | 48 | 67 | 70 | 82 | 88 | 88 | 102 | 150 | 160 | 155 | 105 | 78 | 75 | 80 | 80 | 215 |
| 23 | 85 | 90 | 92 | 92 | 92 | 87 | 77 | 68 | 57 | 55 | 62 | 72 | 87 | 98 | 120 | 127 | 117 | 117 | 112 | 108 | 92 | 95 | 78 | 68 | 90 | 85 |
| 24 | 82 | 92 | 95 | 95 | 93 | 88 | 77 | 68 | 57 | 55 | 55 | 60 | 75 | 98 | 100 | 108 | 120 | 112 | 110 | 98 | 45 | 80 | 78 | 85 | 165 | 85 |
| 25 | 80 | | | | | | | | | | | | | | | | | | | | | | | | | |

Tromsø.

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

Gr. M. T.

JULY 1936.

HOURLY MEAN VALUES

Table for July 1936 showing magnetic observations. Columns include Day (1-31), 24 hours of hourly mean values, and summary statistics (M, PS, NS, AS, CH).

AUGUST

Table for August 1936 showing magnetic observations. Columns include Day (1-31), 24 hours of hourly mean values, and summary statistics (M, PS, NS, AS, CH).

SEPTEMBER

Table for September 1936 showing magnetic observations. Columns include Day (1-30), 24 hours of hourly mean values, and summary statistics (M, PS, NS, AS, CH).

Tromsø. Horizontal Intensity. H = 11300 + Tabular Quantities expressed in Gamma.

Gr. M. T.

OKTOBER 1936.

HOURLY MEAN VALUES

Table for October 1936 showing hourly mean values for horizontal intensity. Columns include Day (1-31), hours (1-24), and summary rows (M, QM).

NOVEMBER

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

DECEMBER

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

Tromsø.

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

Gr. M. T.

OCTOBER 1936.

HOURLY MEAN VALUES

Table for October 1936 showing magnetic observations. Columns include Day (1-31), hours (1-23), and summary statistics (M, PS, NS, AS, CH). Rows show hourly values and monthly totals.

NOVEMBER

Table for November 1936 showing magnetic observations. Columns include Day (1-30), hours (1-23), and summary statistics (M, PS, NS, AS, CH). Rows show hourly values and monthly totals.

DECEMBER

Table for December 1936 showing magnetic observations. Columns include Day (1-31), hours (1-23), and summary statistics (M, PS, NS, AS, CH). Rows show hourly values and monthly totals.

Tromsø.

Vertical Intensity. $V = 50200 +$ Tabular Quantities expressed in Gamma.

Gr. M. T.

JANUARY 1936.

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 | 55 | -20 | 25 | 48 | 68 | 65 | 65 | 67 | 68 | 68 | 68 | 70 | 70 | 68 | 70 | 70 | 68 | 65 | 58 | 70 | 73 | 77 | 77 | 62 | 129 | |
| 2 | 85 | 75 | 67 | 60 | 60 | 60 | 62 | 63 | 67 | 62 | 68 | 68 | 68 | 63 | 68 | 70 | 80 | 72 | 78 | 88 | 88 | 72 | 85 | 95 | 72 | 68 |
| 3 | 88 | 67 | 63 | 68 | 67 | 65 | 65 | 67 | 67 | 67 | 68 | 68 | 68 | 68 | 68 | 70 | 80 | 70 | 68 | 68 | 50 | 60 | 68 | 63 | 66 | 61 |
| 4 | 38 | 68 | 65 | 65 | 63 | 62 | 63 | 65 | 67 | 68 | 70 | 70 | 70 | 72 | 73 | 73 | 75 | 70 | 68 | 62 | 72 | 75 | 75 | 67 | 47 | 41 |
| 5 | 72 | 70 | 68 | 65 | 67 | 68 | 70 | 70 | 70 | 70 | 72 | 72 | 72 | 70 | 67 | 65 | 63 | 63 | 67 | 68 | 68 | 68 | 68 | 68 | 68 | 41 |
| 6 | 67 | 67 | 62 | 58 | 60 | 60 | 60 | 60 | 60 | 62 | 63 | 67 | 68 | 68 | 75 | 75 | 80 | 90 | 78 | 72 | 62 | 60 | 63 | 60 | 67 | 41 |
| 7 | 58 | 58 | 58 | 60 | 62 | 60 | 60 | 60 | 60 | 60 | 62 | 63 | 63 | 63 | 63 | 62 | 65 | 65 | 63 | 60 | 57 | 58 | 48 | 60 | 34 | |
| 8 | 40 | 43 | 57 | 58 | 58 | 50 | 59 | 52 | 58 | 62 | 70 | 68 | 85 | 90 | 135 | 120 | 88 | 20 | 47 | 60 | 65 | 55 | 68 | 140 | 68 | 421 |
| 9 | -70 | -23 | 10 | 17 | 20 | 30 | 55 | 68 | 70 | 80 | 82 | 82 | 70 | 67 | 72 | 95 | 78 | 70 | 35 | 40 | 270 | 70 | 140 | 110 | 64 | 577 |
| 10 | 50 | 20 | 50 | 60 | 60 | 60 | 60 | 73 | 68 | 75 | 95 | 105 | 82 | 60 | 95 | 90 | 75 | 60 | -10 | 60 | 0 | 45 | 67 | 40 | 61 | 235 |
| 11 | 50 | 60 | 60 | 65 | 62 | 63 | 63 | 62 | 68 | 72 | 75 | 80 | 83 | 75 | 90 | 92 | 68 | 60 | 55 | 75 | 68 | 58 | 55 | 52 | 67 | 102 |
| 12 | 50 | 20 | -7 | 10 | 0 | 5 | 30 | 45 | 48 | 60 | 70 | 90 | 102 | 0 | 122 | 110 | 105 | 80 | 45 | -80 | -55 | -28 | 20 | 17 | 36 | 272 |
| 13 | 10 | 20 | -80 | -40 | 10 | 27 | 33 | 60 | 65 | 77 | 75 | 78 | 85 | 100 | 90 | 75 | 85 | 70 | -10 | -10 | 2 | 40 | 40 | 37 | 306 | |
| 14 | -40 | -30 | -25 | 0 | 32 | 48 | 62 | 80 | 93 | 92 | 90 | 85 | 72 | 70 | 75 | 70 | 80 | 90 | 75 | 80 | 75 | 68 | -35 | -30 | 49 | 183 |
| 15 | -25 | 20 | 38 | 38 | 32 | 58 | 68 | 72 | 63 | 68 | 75 | 70 | 78 | 78 | 80 | 80 | 90 | 75 | 78 | 68 | 65 | 45 | -8 | 57 | 163 | |
| 16 | 5 | 42 | 50 | 55 | 57 | 58 | 60 | 60 | 60 | 67 | 65 | 65 | 65 | 65 | 68 | 68 | 68 | 70 | 77 | 67 | 65 | 62 | 35 | 20 | 57 | 88 |
| 17 | 32 | 23 | 23 | 35 | 0 | 10 | 42 | 48 | 55 | 65 | 68 | 68 | 67 | 67 | 65 | 62 | 60 | 62 | 63 | 62 | 62 | 58 | 40 | 18 | 48 | 81 |
| 18 | 40 | 50 | 52 | 33 | -20 | -20 | 25 | 40 | 70 | 80 | 73 | 90 | 80 | 100 | 120 | 50 | 5 | -10 | -60 | 50 | 80 | 85 | 80 | 42 | 46 | 265 |
| 19 | 35 | 35 | 47 | 45 | 53 | 58 | 63 | 65 | 68 | 68 | 70 | 72 | 80 | 100 | 95 | 78 | 80 | 60 | -40 | -15 | 35 | 60 | 68 | 56 | 265 | 65 |
| 20 | 62 | 50 | 40 | 48 | 60 | 60 | 60 | 60 | 62 | 65 | 67 | 70 | 72 | 68 | 70 | 78 | 95 | 110 | 85 | 65 | 10 | 5 | 40 | 55 | 61 | 348 |
| 21 | 72 | 0 | 45 | 58 | 50 | 65 | 65 | 65 | 68 | 70 | 68 | 68 | 70 | 75 | 78 | 90 | 80 | 85 | 65 | -10 | 5 | -70 | 65 | 240 | 61 | 659 |
| 22 | 100 | 5 | -10 | -30 | -20 | 10 | 22 | 47 | 62 | 70 | 70 | 78 | 85 | 88 | 80 | 77 | 80 | 55 | 15 | -25 | 20 | -20 | 140 | 112 | 46 | 387 |
| 23 | 95 | 70 | 50 | 2 | -5 | 50 | 60 | 50 | 48 | 55 | 72 | 70 | 70 | 70 | 65 | 65 | 67 | 68 | 70 | 70 | 25 | 60 | 55 | 58 | 163 | 61 |
| 24 | 75 | 15 | 15 | 48 | 55 | 65 | 62 | 68 | 60 | 58 | 58 | 60 | 63 | 70 | 67 | 68 | 60 | 15 | 55 | 165 | 330 | 220 | 70 | 64 | 177 | 658 |
| 25 | 150 | 45 | 55 | 83 | 82 | 40 | 5 | 45 | 70 | 75 | 72 | 80 | 110 | 85 | -20 | 30 | 88 | 102 | 93 | 82 | 73 | 68 | 80 | 88 | 70 | 292 |
| 26 | -70 | 100 | -60 | 0 | 37 | 55 | 25 | 45 | 50 | 52 | 55 | 50 | 82 | 68 | 92 | 40 | 40 | 70 | 78 | 72 | 75 | -30 | -10 | 53 | 41 | 475 |
| 27 | 70 | 50 | 45 | 30 | 55 | 50 | 45 | 58 | 63 | 72 | 70 | 78 | 77 | 90 | 102 | 100 | 90 | 90 | 75 | 88 | 75 | 60 | 40 | -10 | 65 | 210 |
| 28 | -5 | 55 | 60 | 15 | -20 | 0 | 10 | 20 | 50 | 68 | 68 | 68 | 80 | 80 | 80 | 78 | 80 | 75 | 78 | 70 | 48 | 65 | 78 | 72 | 53 | 163 |
| 29 | 70 | 70 | 68 | 68 | 70 | 70 | 67 | 67 | 68 | 68 | 70 | 70 | 73 | 80 | 87 | 78 | 80 | 75 | 62 | -15 | 10 | 70 | 50 | 60 | 278 | 60 |
| 30 | 5 | 48 | 53 | 80 | 78 | 52 | 30 | 40 | 63 | 69 | 70 | 98 | 90 | 102 | 100 | 88 | 95 | 95 | 95 | 40 | 25 | 60 | 100 | 70 | 170 | 70 |
| 31 | 65 | -20 | 23 | 60 | 62 | 62 | 62 | 68 | 75 | 78 | 82 | 82 | 88 | 80 | 75 | 80 | 92 | 78 | 80 | 93 | 10 | 50 | 70 | 10 | 63 | 217 |
| M | 43 | 37 | 35 | 41 | 42 | 45 | 49 | 58 | 63 | 68 | 71 | 74 | 77 | 73 | 79 | 79 | 76 | 68 | 58 | 48 | 51 | 45 | 69 | 67 | 59 | 246 |
| QM | 58 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 68 | 69 | 69 | 68 | 68 | 67 | 65 | 65 | 64 | 63 | 62 | 59 | 58 | 58 | 63 | 63 |

FEBRUARY

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | M | R | | |
|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|-----|-----|------|------|
| 1 | 8 | 55 | 65 | 53 | 47 | 48 | 52 | 58 | 63 | 67 | 68 | 68 | 83 | 75 | 80 | 92 | 100 | 97 | 92 | 80 | 62 | 68 | 70 | 67 | 102 | | |
| 2 | 75 | 75 | 77 | 77 | 70 | 65 | 62 | 60 | 65 | 67 | 70 | 75 | 80 | 78 | 75 | 82 | 110 | -10 | -60 | -60 | 55 | 110 | 88 | 130 | 63 | 509 | |
| 3 | 45 | 45 | 15 | 0 | 40 | 35 | 0 | 8 | 50 | 60 | 75 | 75 | 72 | 72 | 72 | 70 | 78 | 80 | 50 | 60 | 68 | 60 | 68 | 70 | 53 | 143 | |
| 4 | 60 | 68 | 55 | 30 | 55 | 52 | 48 | 65 | 80 | 100 | 110 | 90 | 90 | 95 | 90 | 85 | 65 | 0 | 28 | 40 | 57 | 70 | 47 | 47 | 60 | 75 | |
| 5 | 45 | 45 | 45 | 45 | 42 | 42 | 50 | 58 | 63 | 68 | 68 | 70 | 73 | 72 | 70 | 75 | 90 | 78 | 75 | 70 | 60 | 32 | 45 | 60 | 75 | | |
| 6 | 58 | 62 | 62 | 60 | 60 | 60 | 60 | 60 | 62 | 67 | 67 | 68 | 68 | 92 | 85 | 78 | 73 | 80 | 78 | 72 | 70 | 68 | 60 | 45 | 67 | 68 | |
| 7 | 35 | -3 | 33 | 20 | 30 | 40 | 50 | 58 | 62 | 68 | 70 | 70 | 65 | 65 | 68 | 68 | 68 | 60 | 60 | 62 | 48 | 30 | 22 | 50 | 109 | | |
| 8 | 30 | 30 | 53 | 55 | 58 | 58 | 60 | 60 | 68 | 63 | 68 | 85 | 48 | 58 | 60 | 62 | 65 | 72 | 50 | 32 | 35 | 3 | 48 | 54 | 143 | | |
| 9 | 58 | 35 | 2 | 20 | -30 | 30 | 45 | 50 | 50 | 60 | 65 | 70 | 85 | 110 | 122 | 85 | 60 | 70 | 73 | 140 | 140 | 40 | 150 | 67 | 394 | | |
| 10 | 260 | 85 | 40 | 20 | 30 | 28 | 45 | 72 | 80 | 78 | 98 | 83 | 102 | 92 | 72 | 55 | 75 | 10 | 30 | 20 | 25 | 95 | 95 | 40 | 68 | 536 | |
| 11 | 80 | 17 | 25 | 35 | 40 | 35 | 45 | 57 | 60 | 68 | 65 | 70 | 65 | 78 | 80 | 70 | 68 | 73 | 75 | 65 | 65 | 45 | 10 | -15 | 53 | 170 | |
| 12 | 30 | 52 | 57 | 57 | 55 | 55 | 55 | 55 | 57 | 60 | 62 | 62 | 70 | 83 | 78 | 70 | 62 | 70 | 80 | 60 | 58 | 57 | 55 | 55 | 61 | 102 | |
| 13 | 55 | 57 | 57 | 58 | 58 | 57 | 55 | 55 | 57 | 58 | 60 | 62 | 70 | 70 | 68 | 67 | 73 | 65 | 60 | 60 | 53 | 47 | 32 | 55 | 163 | | |
| 14 | 15 | 40 | 55 | 53 | 53 | 53 | 52 | 52 | 57 | 57 | 70 | 78 | 68 | 60 | 57 | 30 | -80 | 100 | 60 | 0 | -10 | 70 | 44 | 346 | 60 | | |
| 15 | 30 | 30 | 5 | 30 | 75 | 80 | 70 | 68 | 70 | 72 | 85 | 93 | 115 | 82 | 60 | 58 | 130 | 80 | 80 | 50 | 85 | 45 | 100 | 69 | 238 | | |
| 16 | 140 | -40 | -20 | -8 | 0 | 15 | 35 | 65 | 80 | 95 | 110 | 140 | 100 | 75 | 60 | 40 | -5 | -90 | -20 | 20 | 10 | 50 | 10 | 50 | 38 | 435 | |
| 17 | 130 | 60 | -40 | -30 | -10 | 20 | 20 | 18 | 55 | 60 | 65 | 70 | 62 | 70 | 50 | -65 | -100 | -170 | 70 | 140 | 50 | 130 | 30 | 40 | 30 | 705 | |
| 18 | 15 | 45 | 20 | 60 | 62 | 70 | 70 | 70 | 62 | 68 | 77 | 78 | 90 | 95 | 110 | 95 | 70 | 58 | 20 | 50 | 65 | 45 | 60 | 62 | 54 | 143 | |
| 19 | 140 | 200 | 20 | 30 | 60 | 72 | 75 | 72 | 75 | 77 | 78 | 78 | 78 | 85 | 80 | 100 | 10 | -150 | -160 | -40 | 80 | 420 | 220 | 80 | 60 | 58 | 1082 |
| 20 | 60 | 65 | 25 | -20 | 3 | 55 | 52 | 65 | 80 | 75 | 78 | 70 | 80 | 80 | 100 | 10 | -150 | -160 | -40 | 80 | 420 | 220 | 80 | 60 | 58 | 1082 | |
| 21 | 70 | 110 | 45 | 50 | 20 | 15 | 35 | 70 | 70 | 72 | 77 | 90 | 90 | 80 | -30 | 40 | 55 | 5 | 140 | 75 | 20 | 60 | 55 | 60 | 57 | 421 | |
| 22 | 150 | 200 | 20 | 5 | -30 | 32 | 55 | 60 | 80 | 90 | 70 | 80 | 82 | 95 | 60 | 60 | 145 | 108 | 82 | 75 | 65 | 30 | -130 | -10 | 62 | 619 | |
| 23 | 40 | 90 | 72 | 30 | 15 | 50 | 60 | 68 | 70 | 75 | 78 | 92 | 80 | 110 | 125 | 100 | -20 | -45 | 150 | 60 | 95 | 115 | 25 | 65 | 489 | | |
| 24 | 75 | -45 | 0 | 30 | 50 | 70 | 77 | 78 | 75 | 72 | 72 | 70 | 115 | 98 | 77 | 70 | 75 | 95 | 85 | 80 | 35 | 35 | 20 | 61 | 346 | 60 | |
| 25 | 50 | 60 | 55 | 50 | 62 | 68 | 65 | 65 | 62 | 62 | 70 | 70 | 72 | 95 | 110 | 82 | 100 | 117 | 85 | 5 | -5 | 70 | 90 | 65 | 68 | 299 | |
| 26 | 110 | -5 | 20 | 10 | 12 | 40 | 50 | 52 | 68 | 75 | 80 | 98 | 98 | 90 | 75 | 0 | -35 | -110 | 30 | 50 | 110 | 100 | 130 | -25 | 47 | 523 | |
| 27 | 60 | 35 | 120 | -5 | 40 | 50 | 70 | 75 | 75 | 82 | 75 | 80 | 75 | 95 | 85 | 10 | | | | | | | | | | | |

Tromsø.

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

Gr. M. T.

JANUARY 1936.

HOURLY MEAN VALUES

Table for January 1936 showing magnetic observations. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -83 to 20.

FEBRUARY

Table for February 1936 showing magnetic observations. Columns include Day (1-29), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -28 to 20.

MARCH

Table for March 1936 showing magnetic observations. Columns include Day (1-31), hours (1-24), and summary statistics (M, PS, NS, AS). Values range from -52 to 16.

Tromsø.

Vertical Intensity. V = 50200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

APRIL 1956.

HOURLY MEAN VALUES

Table for April 1956 showing hourly mean values for vertical intensity. Columns include Day (1-30), hours (1-24), and summary statistics (M, R, QM).

MAY

Table for May showing hourly mean values for vertical intensity. Columns include Day (1-31), hours (1-24), and summary statistics (M, R, QM).

JUNE

Table for June showing hourly mean values for vertical intensity. Columns include Day (1-30), hours (1-24), and summary statistics (M, R, QM).

Tromsø.

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

Gr. M. T.

APRIL 1936.

HOURLY MEAN VALUES

Table for April 1936 showing magnetic observations. Columns include Day (1-30), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS). Includes sub-rows for MPS and MNS.

MAY

Table for May 1936 showing magnetic observations. Columns include Day (1-31), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS). Includes sub-rows for MPS and MNS.

JUNE

Table for June 1936 showing magnetic observations. Columns include Day (1-30), 24 hours of intensity/storminess values, and summary statistics (M, PS, NS, AS). Includes sub-rows for MPS and MNS.

Tromsø.

Vertical Intensity. V = 50200 + Tabular Quantities expressed in Gamma.

Gr. M. T.

JULY 1936.

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 | 48 | 62 | 80 | 80 | 80 | 78 | 77 | 77 | 75 | 73 | 70 | 68 | 67 | 78 | 80 | 85 | 88 | 80 | 70 | 68 | 62 | 55 | 63 | 68 | 72 | 54 |
| 2 | 68 | 67 | 62 | 60 | 75 | 55 | 47 | 43 | 100 | 125 | 110 | -90 | -230 | -380 | -330 | -280 | 100 | 95 | 140 | 190 | 90 | 95 | 120 | 205 | 22 | 883 |
| 3 | 300 | 190 | 30 | 65 | 70 | 70 | 80 | 92 | 98 | 85 | 98 | 105 | 150 | 140 | 150 | 100 | 90 | 93 | 55 | 70 | 72 | 75 | 80 | 87 | 101 | 414 |
| 4 | 87 | 83 | 82 | 80 | 78 | 78 | 75 | 72 | 70 | 90 | 88 | 80 | 80 | 100 | 110 | 98 | 83 | 83 | 72 | 82 | 68 | 73 | 98 | 90 | 83 | 115 |
| 5 | 83 | 85 | 80 | 63 | 45 | 40 | 70 | 92 | 95 | 115 | 145 | 140 | 150 | 170 | 145 | 104 | 85 | 40 | 45 | 60 | 85 | 93 | 110 | 145 | 95 | 251 |
| 6 | 110 | 180 | 0 | -50 | 50 | 80 | 77 | 83 | 80 | 78 | 88 | 80 | -180 | -160 | -60 | -55 | -100 | 20 | 85 | 90 | 100 | 100 | 50 | 110 | 44 | 699 |
| 7 | 150 | 65 | 105 | -3 | 40 | 72 | 82 | 88 | 90 | 110 | 120 | 100 | 60 | 120 | 82 | 73 | 57 | 60 | 60 | 50 | 57 | 65 | 70 | 80 | 77 | 455 |
| 8 | 100 | 0 | 0 | 10 | 58 | 45 | 80 | 93 | 95 | 88 | 83 | 70 | 92 | 72 | 85 | 100 | 62 | 88 | 65 | 50 | 62 | 62 | 62 | 55 | 66 | 210 |
| 9 | 48 | 68 | 75 | 78 | 62 | 78 | 73 | 68 | 70 | 77 | 68 | 65 | 62 | 65 | 90 | 90 | 85 | 87 | 90 | 72 | 95 | 92 | 80 | 52 | 75 | 149 |
| 10 | 145 | 30 | 30 | 58 | 65 | 43 | 43 | 50 | 68 | 75 | 75 | 90 | 130 | 130 | 90 | -20 | 20 | 80 | 110 | 270 | 310 | 290 | 280 | 360 | 118 | 502 |
| 11 | 280 | 190 | 220 | -65 | 30 | 83 | 92 | 92 | 105 | 140 | 85 | 68 | 75 | 63 | 10 | 20 | 70 | 68 | 58 | 73 | 90 | 75 | 110 | 120 | 90 | 659 |
| 12 | 68 | 75 | 43 | 45 | 60 | 70 | 73 | 75 | 75 | 78 | 77 | 77 | 82 | 80 | 92 | 92 | 90 | 70 | 50 | 65 | 40 | -15 | 70 | 67 | 217 | |
| 13 | 60 | 60 | 50 | -30 | 30 | 38 | 40 | 60 | 75 | 105 | 115 | 117 | 75 | 100 | 100 | 100 | 65 | 85 | 25 | 50 | 90 | 92 | 85 | 85 | 70 | 197 |
| 14 | 82 | 80 | 78 | 78 | 80 | 82 | 82 | 80 | 82 | 80 | 83 | 72 | 78 | 80 | 83 | 83 | 80 | 82 | 78 | 70 | 75 | 68 | 50 | 68 | 78 | 61 |
| 15 | 70 | 70 | 78 | 80 | 78 | 82 | 72 | 72 | 75 | 80 | 80 | 80 | 87 | 78 | 72 | 70 | 72 | 70 | 68 | 62 | 70 | 40 | 68 | 50 | 72 | 81 |
| 16 | 50 | 68 | 50 | -60 | -120 | -100 | -40 | 43 | 53 | 67 | 72 | 78 | 88 | 100 | 102 | 88 | 70 | 65 | 63 | 63 | 60 | 75 | 92 | 113 | 48 | 360 |
| 17 | 40 | 35 | 90 | -35 | 20 | 65 | 75 | 72 | 75 | 77 | 82 | 90 | 115 | 90 | 92 | 85 | 98 | 55 | 0 | -70 | 48 | 77 | 68 | 59 | 44 | 455 |
| 18 | 80 | 90 | 125 | 70 | 60 | 70 | 82 | 77 | 88 | 85 | 70 | 68 | 75 | 90 | 135 | 110 | 95 | 93 | 78 | 55 | 60 | 75 | 75 | 72 | 82 | 122 |
| 19 | 85 | 82 | 50 | 62 | 65 | 80 | 82 | 80 | 93 | 85 | 90 | 100 | 110 | 107 | 98 | 90 | 98 | 90 | 88 | 78 | 60 | 50 | 30 | 80 | 149 | |
| 20 | 2 | 25 | 53 | 65 | 70 | 80 | 77 | 80 | 95 | 90 | 65 | 63 | 82 | 90 | 83 | 95 | 70 | 90 | 98 | 93 | 82 | 77 | 77 | 74 | 74 | 115 |
| 21 | 75 | 78 | 68 | 68 | 73 | 78 | 80 | 75 | 73 | 73 | 75 | 77 | 80 | 85 | 90 | 85 | 83 | 92 | 90 | 90 | 78 | 57 | 58 | 60 | 77 | 48 |
| 22 | 68 | 72 | 78 | 73 | 68 | 68 | 70 | 75 | 80 | 80 | 73 | 73 | 73 | 82 | 110 | 125 | 115 | 95 | 80 | 77 | 72 | 68 | 45 | 12 | 76 | 145 |
| 23 | 53 | 70 | 78 | 75 | 73 | 75 | 78 | 75 | 72 | 75 | 72 | 75 | 72 | 75 | 73 | 73 | 70 | 70 | 70 | 70 | 70 | 68 | 74 | 81 | 81 | 83 |
| 24 | 68 | 72 | 73 | 75 | 77 | 78 | 77 | 77 | 77 | 75 | 78 | 120 | 130 | 95 | 80 | 77 | 75 | 72 | 68 | 62 | 68 | 68 | 79 | 95 | 95 | 95 |
| 25 | 68 | 60 | 68 | 72 | 60 | 50 | 52 | 58 | 58 | 60 | 52 | 83 | 105 | 125 | 130 | 100 | 80 | 75 | 70 | 77 | 83 | 40 | -15 | 20 | 68 | 204 |
| 26 | 58 | 20 | -12 | 28 | 58 | 77 | 78 | 77 | 77 | 75 | 73 | 62 | 72 | 75 | 78 | 86 | 90 | 88 | 85 | 78 | 75 | 68 | 52 | 60 | 66 | 122 |
| 27 | 52 | 68 | 73 | 72 | 70 | 70 | 70 | 72 | 72 | 70 | 67 | 65 | 75 | 110 | 113 | 107 | 108 | 95 | 58 | 50 | 15 | 40 | 90 | 61 | 165 | |
| 28 | 115 | -50 | -10 | -20 | 10 | 23 | 62 | 70 | 73 | 70 | 75 | 62 | 68 | 68 | 73 | 100 | 100 | 90 | 80 | 78 | 78 | 78 | 78 | 78 | 60 | 272 |
| 29 | 80 | 78 | 75 | 73 | 73 | 72 | 72 | 65 | 82 | 112 | 128 | 168 | 140 | 180 | -130 | -200 | -140 | 45 | -30 | 60 | 180 | 240 | 230 | 155 | 75 | 754 |
| 30 | 173 | 200 | 265 | 110 | -20 | 30 | 72 | 77 | 88 | 85 | 77 | 90 | 107 | 92 | 90 | 80 | 78 | 78 | 73 | 77 | 77 | 77 | 77 | 82 | 93 | 387 |
| 31 | 90 | 85 | 82 | 80 | 78 | 75 | 72 | 68 | 68 | 80 | 103 | 115 | 90 | 90 | 120 | 110 | 75 | 60 | 78 | 95 | 90 | 140 | 90 | 12 | 85 | 224 |
| M | 99 | 76 | 72 | 44 | 53 | 61 | 68 | 74 | 80 | 86 | 85 | 80 | 74 | 70 | 62 | 69 | 77 | 69 | 76 | 84 | 85 | 80 | 87 | 74 | 277 | |
| QM | 68 | 69 | 70 | 71 | 72 | 72 | 73 | 74 | 75 | 76 | 77 | 77 | 77 | 76 | 75 | 74 | 73 | 73 | 72 | 72 | 71 | 70 | 69 | 68 | 73 | |

AUGUST

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | M | R | | |
|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|-----|-----|----|
| 1 | 0 | 170 | 40 | -22 | 0 | 50 | 80 | 77 | 72 | 82 | 77 | 72 | 75 | 78 | 78 | 80 | 92 | 85 | 78 | 82 | 80 | 75 | 72 | 40 | 67 | 448 | |
| 2 | 20 | 63 | 52 | 58 | 55 | 68 | 72 | 70 | 72 | 72 | 68 | 65 | 62 | 70 | 75 | 80 | 100 | 92 | 77 | 73 | 73 | 80 | 20 | 65 | 67 | 190 | |
| 3 | 77 | 72 | 60 | 62 | 75 | 72 | 70 | 68 | 62 | 62 | 68 | 65 | 78 | 95 | 112 | 100 | 85 | 68 | 80 | 70 | -10 | -10 | 25 | 65 | 136 | | |
| 4 | 48 | 52 | 60 | 62 | 45 | 20 | 48 | 68 | 68 | 65 | 75 | 68 | 68 | 73 | 75 | 75 | 70 | 68 | 68 | 68 | 65 | 63 | 68 | 63 | 75 | 75 | |
| 5 | 72 | 78 | 78 | 55 | 63 | 75 | 72 | 70 | 70 | 53 | 62 | 68 | 90 | 85 | 72 | 130 | 115 | 78 | 73 | 70 | 35 | 60 | 35 | 110 | 74 | 224 | |
| 6 | 180 | 70 | 0 | -10 | -15 | 35 | 68 | 72 | 80 | 80 | 77 | 80 | 98 | 102 | 120 | 105 | 88 | 78 | 78 | 72 | 78 | 73 | 72 | 73 | 72 | 367 | |
| 7 | 75 | 78 | 80 | 83 | 82 | 80 | 77 | 70 | 68 | 62 | 60 | 60 | 58 | 65 | 70 | 75 | 73 | 73 | 73 | 77 | 77 | 72 | 68 | 68 | 65 | 72 | 34 |
| 8 | 30 | 30 | 50 | 62 | 68 | 68 | 68 | 62 | 62 | 68 | 65 | 75 | 68 | 80 | 110 | 100 | 95 | 45 | 45 | 60 | 130 | 50 | 55 | 78 | 68 | 306 | |
| 9 | 72 | 68 | 70 | 30 | 40 | 58 | 55 | 53 | 63 | 65 | 75 | 105 | 138 | 125 | 110 | 100 | 80 | 75 | 35 | 50 | 80 | 105 | 180 | 83 | 292 | | |
| 10 | 70 | 55 | -10 | -63 | -70 | -30 | 30 | 65 | 95 | 92 | 105 | 100 | 80 | 130 | 125 | 115 | 95 | 80 | 82 | 90 | 88 | 78 | 77 | 73 | 65 | 251 | |
| 11 | 70 | 58 | 58 | 63 | 75 | 75 | 75 | 78 | 80 | 80 | 78 | 73 | 78 | 80 | 75 | 82 | 78 | 78 | 75 | 70 | 75 | 70 | 73 | 73 | 74 | 34 | |
| 12 | 70 | 70 | 70 | 70 | 67 | 70 | 70 | 70 | 72 | 75 | 70 | 63 | 68 | 70 | 60 | 93 | 100 | 98 | 78 | 68 | 60 | 70 | 140 | 80 | 76 | 183 | |
| 13 | 15 | 70 | 77 | 73 | 40 | 50 | 60 | 68 | 65 | 78 | 82 | 75 | 70 | 75 | 77 | 73 | 78 | 80 | 68 | 68 | 60 | 70 | 80 | 68 | 78 | 60 | |
| 14 | 75 | 73 | 70 | 78 | 80 | 78 | 73 | 68 | 65 | 65 | 65 | 68 | 70 | 75 | 82 | 90 | 100 | 93 | 80 | 72 | 73 | 72 | 72 | 78 | 76 | 54 | |
| 15 | 73 | 75 | 65 | 55 | 58 | 63 | 60 | 63 | 75 | 82 | 83 | 80 | 77 | 100 | 130 | 120 | 90 | 73 | 72 | 70 | 68 | 50 | 55 | 60 | 75 | 122 | |
| 16 | 63 | 30 | 25 | 58 | 62 | 65 | 63 | 70 | 73 | 78 | 75 | 77 | 80 | 77 | 72 | 75 | 78 | 93 | 73 | 62 | 70 | 70 | 55 | 48 | 65 | 95 | |
| 17 | 48 | 20 | -5 | 0 | 50 | 78 | 80 | 78 | 77 | 73 | 72 | 78 | 77 | 77 | 80 | 83 | 90 | 80 | 63 | 75 | 70 | 43 | 12 | 30 | 61 | 109 | |
| 18 | 50 | 60 | 62 | 70 | 78 | 80 | 75 | 73 | 73 | 78 | 77 | 75 | 78 | 80 | 95 | 98 | 95 | 83 | 88 | 72 | 70 | 70 | 70 | 70 | 75 | 61 | |
| 19 | 73 | 77 | 78 | 80 | 75 | 75 | 75 | 73 | 73 | 72 | 68 | 65 | 85 | 82 | 105 | 115 | 95 | 78 | 77 | 75 | 70 | 70 | 70 | 70 | 79 | 61 | |
| 20 | 70 | 72 | 78 | 80 | 77 | 77 | 77 | 72 | 67 | 65 | 75 | 80 | 83 | 95 | 95 | 120 | 108 | 82 | 108 | 120 | 135 | 95 | 103 | 90 | 163 | | |
| 21 | 115 | 12 | 52 | 60 | 73 | 78 | 75 | 78 | 83 | 85 | 92 | 102 | 120 | 120 | 122 | 117 | 92 | 75 | 72 | 72 | 70 | 70 | 70 | 70 | 82 | 136 | |
| 22 | 73 | 40 | 28 | 45 | 50 | 60 | 68 | 73 | 77 | 75 | 82 | 90 | 93 | 105 | 118 | 82 | 68 | 70 | 65 | 65 | 82 | 30 | 73 | 67 | 72 | 109 | |
| 23 | 72 | 78 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 83 | 87 | 90 | 98 | 118 | 112 | 130 | 110 | 80 | 80 | 75 | 77 | 78 | 60 | 50 | 85 | 95 | |
| 24 | 68 | 73 | 73 | 72 | 72 | 72 | 80 | 80 | 78 | 77 | 75 | 80 | 90 | 100 | 110 | 102 | 92 | 87 | 85 | 78 | 75 | 68 | 48 | 48 | 79 | 81 | |
| 25 | 58 | 62 | 62 | 75 | 82 | 82 | 78 | 77 | 75 | 73 | 73 | 70 | 68 | 68 | 68 | 68 | 75 | 70 | 70 | 68 | 72 | 50 | 50 | 45 | 68 | 217 | |
| 26 | 15 | 0 | 55 | 75 | 78 | 75 | 75 | 73 | 73 | 73 | 80 | 90 | 93 | 80 | 73 | 83 | 82 | 75 | 72 | 77 | 75 | 75 | 78 | 78</ | | | |

Tromsø.

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

Gr. M. T.

JULY 1936.

HOURLY MEAN VALUES

Table for July 1936 showing magnetic observations. Columns include Day (1-31), M, PS, NS, AS, and hourly values (1-23). Rows include daily data and summary rows for M, PS, NS, AS, MPS, and MNS.

AUGUST

Table for August 1936 showing magnetic observations. Columns include Day (1-31), M, PS, NS, AS, and hourly values (1-23). Rows include daily data and summary rows for M, PS, NS, AS, MPS, and MNS.

SEPTEMBER

Table for September 1936 showing magnetic observations. Columns include Day (1-30), M, PS, NS, AS, and hourly values (1-23). Rows include daily data and summary rows for M, PS, NS, AS, MPS, and MNS.

Tromsø.

Vertical Intensity. $V = 50200 +$ Tabular Quantities expressed in Gamma.

Gr. M. T.

OCTOBER 1936.

HOURLY MEAN VALUES

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | M | R | | |
|-----|-----|-----|------|------|-----|----|----|----|-----|-----|-----|-----|-----|------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 50 | -55 | -55 | -75 | -40 | 15 | 40 | 70 | 80 | 93 | 100 | 105 | 95 | 80 | 83 | 83 | 78 | 75 | 90 | 78 | 70 | 68 | 20 | 12 | 48 | 231 | |
| 2 | 49 | 70 | 77 | 78 | 78 | 80 | 82 | 85 | 85 | 82 | 78 | 80 | 87 | 92 | 98 | 103 | 115 | 92 | 73 | 72 | 78 | 68 | 55 | 65 | 80 | 109 | |
| 3 | 63 | 70 | 78 | 78 | 80 | 80 | 80 | 82 | 85 | 87 | 87 | 93 | 95 | 98 | 103 | 108 | 96 | 88 | 78 | 75 | 68 | 65 | 58 | 84 | 68 | 80 | |
| 4 | 43 | 62 | 73 | 78 | 80 | 80 | 80 | 80 | 82 | 87 | 85 | 80 | 78 | 75 | 75 | 75 | 78 | 82 | 82 | 82 | 30 | 27 | 60 | 72 | 102 | 102 | |
| 5 | 72 | 70 | 70 | 65 | 57 | 55 | 60 | 70 | 75 | 75 | 78 | 80 | 87 | 95 | 87 | 87 | 100 | 60 | 110 | 70 | 125 | 250 | 170 | 220 | 95 | 319 | |
| 6 | 200 | 210 | 100 | -10 | 30 | 25 | 28 | 65 | 80 | 80 | 103 | 115 | 107 | 90 | 87 | 90 | 108 | 93 | 100 | 80 | 100 | 160 | 270 | 78 | 100 | 618 | |
| 7 | 40 | 20 | 63 | 73 | 78 | 78 | 78 | 73 | 70 | 110 | 115 | 95 | 120 | 90 | 100 | 100 | 110 | 100 | 98 | 80 | 275 | 130 | 120 | 70 | 95 | 401 | |
| 8 | 80 | 125 | 25 | -150 | -90 | 15 | 65 | 80 | 90 | 80 | 82 | 80 | 88 | 100 | 98 | 70 | 120 | 120 | 98 | 60 | 50 | 80 | 80 | 80 | 64 | 394 | |
| 9 | 80 | 80 | 77 | 65 | 45 | 58 | 73 | 87 | 98 | 100 | 90 | 98 | 130 | 135 | 170 | 0 | 100 | 85 | 140 | 100 | 80 | 100 | 70 | 93 | 90 | 435 | |
| 10 | 210 | 80 | -190 | -70 | 80 | 40 | 40 | 70 | 93 | 60 | 50 | 60 | 87 | 60 | 65 | 55 | 105 | 75 | 65 | 95 | 85 | 85 | 80 | 80 | 61 | 638 | |
| 11 | 80 | 75 | 80 | 83 | 85 | 87 | 88 | 90 | 92 | 92 | 92 | 93 | 98 | 95 | 90 | 85 | 80 | 80 | 78 | 80 | 78 | 80 | 80 | 80 | 85 | 41 | |
| 12 | 80 | 80 | 80 | 80 | 80 | 80 | 85 | 85 | 83 | 90 | 92 | 90 | 93 | 93 | 93 | 83 | 80 | 78 | 77 | 75 | 77 | 77 | 78 | 78 | 43 | 27 | |
| 13 | 78 | 78 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 82 | 78 | 78 | 82 | 75 | 78 | 75 | 73 | 88 | 95 | 80 | 75 | 72 | 77 | 78 | 79 | 41 | |
| 14 | 73 | 73 | 75 | 75 | 77 | 77 | 77 | 77 | 77 | 78 | 78 | 78 | 80 | 115 | 80 | 65 | -10 | 80 | 80 | 90 | 90 | 85 | 68 | 68 | 76 | 210 | |
| 15 | 78 | 85 | 100 | -75 | -5 | 20 | 60 | 70 | 85 | 85 | 72 | 78 | 78 | 85 | 92 | 105 | 98 | 90 | 93 | 78 | 110 | 75 | 140 | -10 | 70 | 367 | |
| 16 | 40 | 85 | 80 | 78 | 80 | 77 | 78 | 90 | 98 | 105 | 93 | 98 | 100 | 95 | 100 | 120 | -20 | -90 | 125 | 170 | 260 | 300 | 250 | 180 | 108 | 638 | |
| 17 | 320 | 450 | 380 | 220 | 200 | 95 | 50 | 80 | 100 | 100 | 125 | 150 | 140 | 130 | 175 | 150 | 125 | 113 | 105 | 95 | 98 | 95 | 92 | 90 | 154 | 713 | |
| 18 | 90 | 90 | 88 | 90 | 90 | 88 | 88 | 90 | 90 | 80 | 90 | 100 | 100 | 115 | 112 | 108 | 103 | 97 | 92 | 90 | 88 | 85 | 85 | 85 | 93 | 68 | |
| 19 | 85 | 85 | 85 | 85 | 85 | 88 | 88 | 88 | 88 | 92 | 95 | 95 | 110 | 118 | 148 | 155 | 110 | 90 | 102 | 100 | 95 | 95 | 120 | 70 | 80 | 129 | |
| 20 | 140 | 250 | -50 | -15 | 50 | 72 | 98 | 98 | 98 | 98 | 100 | 100 | 98 | 100 | 110 | 40 | 20 | 30 | 45 | 80 | 80 | 90 | 90 | 95 | 80 | 489 | |
| 21 | 110 | 60 | 90 | 98 | 92 | 90 | 90 | 92 | 92 | 93 | 98 | 100 | 107 | 107 | 120 | 130 | 128 | 102 | 98 | 98 | 75 | 72 | 88 | 87 | 97 | 95 | |
| 22 | 87 | 85 | 83 | 83 | 83 | 85 | 87 | 88 | 88 | 88 | 88 | 88 | 85 | 93 | 92 | 90 | 88 | 88 | 88 | 88 | 87 | 82 | 80 | 78 | 86 | 20 | |
| 23 | 80 | 80 | 78 | 73 | 73 | 80 | 87 | 87 | 87 | 85 | 85 | 85 | 82 | 80 | 83 | 88 | 95 | 103 | 60 | 8 | 92 | 190 | 245 | 130 | 93 | 462 | |
| 24 | 90 | 40 | 43 | 65 | 87 | 80 | 85 | 85 | 90 | 90 | 110 | 95 | 120 | 130 | 122 | 25 | -140 | -120 | 20 | 70 | 100 | 120 | 220 | 190 | 76 | 733 | |
| 25 | 92 | 82 | 95 | 97 | 95 | 98 | 90 | 95 | 95 | 98 | 95 | 100 | 110 | 100 | 92 | 100 | 90 | 88 | 88 | 90 | 90 | 92 | 90 | 90 | 95 | 54 | |
| 26 | 82 | 87 | 80 | 82 | 90 | 90 | 90 | 90 | 92 | 92 | 92 | 100 | 120 | 120 | 122 | 102 | 92 | 85 | 90 | 90 | 87 | 83 | 82 | 82 | 92 | 61 | |
| 27 | 82 | 80 | 80 | 80 | 80 | 80 | 80 | 82 | 83 | 85 | 85 | 85 | 85 | 87 | 85 | 83 | 82 | 82 | 82 | 78 | 78 | 78 | 78 | 78 | 82 | 34 | |
| 28 | 83 | 82 | 82 | 80 | 78 | 75 | 78 | 82 | 82 | 85 | 88 | 90 | 93 | 88 | 87 | 102 | 98 | 88 | 90 | 85 | 82 | 80 | 78 | 78 | 85 | 41 | |
| 29 | 80 | 78 | 78 | 75 | 77 | 78 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 136 | |
| 30 | 70 | 80 | 78 | 78 | 60 | 67 | 78 | 82 | 82 | 82 | 80 | 75 | 78 | 80 | 82 | 80 | 82 | 80 | 82 | 80 | 82 | 82 | 82 | 82 | 82 | 78 | 54 |
| 31 | 78 | 77 | 30 | 25 | 60 | 53 | 68 | 68 | 75 | 82 | 50 | 65 | -80 | -130 | -30 | 80 | 50 | 102 | 107 | 98 | 95 | 92 | 87 | 80 | 53 | 373 | |
| M | 92 | 94 | 69 | 55 | 68 | 69 | 75 | 81 | 85 | 88 | 88 | 88 | 91 | 92 | 91 | 96 | 88 | 78 | 75 | 88 | 84 | 97 | 102 | 102 | 85 | 85 | 262 |
| QM | 80 | 80 | 80 | 80 | 81 | 82 | 83 | 85 | 87 | 88 | 88 | 90 | 91 | 91 | 90 | 89 | 86 | 85 | 83 | 83 | 82 | 81 | 80 | 80 | 79 | 84 | |

NOVEMBER

| DAY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | M | R | | |
|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|
| 1 | 82 | 85 | 87 | 88 | 92 | 92 | 93 | 93 | 92 | 92 | 88 | 88 | 90 | 100 | 100 | 100 | 108 | 112 | 107 | 95 | 90 | 78 | 80 | 80 | 92 | 54 | |
| 2 | 88 | 88 | 88 | 87 | 87 | 88 | 90 | 92 | 93 | 88 | 88 | 88 | 88 | 88 | 80 | 82 | 82 | 85 | 88 | 55 | 70 | 170 | 130 | 10 | 87 | 251 | |
| 3 | 40 | 40 | 28 | 10 | 40 | -12 | 25 | 65 | 85 | 90 | 80 | 60 | 72 | 30 | -40 | -160 | -80 | 60 | 90 | 110 | 290 | 110 | 170 | 160 | 58 | 740 | |
| 4 | 70 | 140 | 290 | -20 | -20 | 72 | 45 | 68 | 93 | 100 | 110 | 113 | 120 | 108 | 100 | 112 | 98 | 90 | 98 | 98 | 93 | 90 | 90 | 125 | 95 | 509 | |
| 5 | 210 | 80 | -50 | 8 | 55 | 78 | 80 | 85 | 90 | 97 | 95 | 95 | 100 | 98 | 98 | 95 | 90 | 95 | 97 | 95 | 75 | 40 | 45 | 70 | 80 | 448 | |
| 6 | 90 | 87 | 82 | 78 | 78 | 90 | 90 | 90 | 92 | 98 | 103 | 98 | 102 | 100 | 110 | 97 | 90 | 80 | 70 | 103 | 93 | 100 | 110 | -45 | 87 | 333 | |
| 7 | -30 | 25 | 80 | 87 | 82 | 82 | 87 | 85 | 92 | 95 | 98 | 103 | 103 | 125 | 90 | 100 | 100 | 92 | 80 | 120 | 180 | 170 | 60 | 80 | 91 | 353 | |
| 8 | 150 | 50 | 70 | 90 | 87 | 85 | 83 | 82 | 83 | 88 | 98 | 95 | 93 | 93 | 90 | 80 | 55 | 90 | 80 | 80 | 92 | 150 | 0 | 5 | 85 | 210 | |
| 9 | 160 | -30 | 170 | -50 | 40 | 78 | 80 | 90 | 98 | 90 | 98 | 100 | 98 | 100 | 95 | 90 | 102 | 103 | 90 | 92 | 92 | 92 | 90 | 88 | 85 | 455 | |
| 10 | 88 | 85 | 87 | 55 | 55 | 78 | 82 | 90 | 85 | 85 | 88 | 90 | 98 | 90 | 88 | 90 | 90 | 98 | 75 | 30 | 30 | 35 | 100 | 65 | 55 | 76 | 217 |
| 11 | 95 | 90 | 80 | 98 | 60 | 48 | 78 | 73 | 102 | 107 | 115 | 120 | 100 | 60 | 10 | -75 | -210 | 100 | 130 | 70 | 180 | 280 | 40 | 65 | 76 | 876 | |
| 12 | 85 | 45 | 50 | 100 | -25 | 70 | 92 | 93 | 97 | 97 | 97 | 95 | 98 | 95 | 115 | 118 | 118 | 98 | 60 | 30 | 60 | 80 | 83 | 90 | 81 | 224 | |
| 13 | 93 | 85 | 88 | 90 | 90 | 90 | 90 | 88 | 90 | 80 | 80 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 88 | 87 | 85 | 83 | 80 | 89 | 80 | |
| 14 | 65 | 35 | 25 | 60 | 80 | 80 | 82 | 85 | 88 | 90 | 92 | 92 | 95 | 92 | 98 | 103 | 110 | 108 | 125 | 105 | 90 | 75 | 82 | 90 | 85 | 109 | |
| 15 | 80 | 25 | 35 | 78 | 80 | 72 | 80 | 85 | 80 | 80 | 90 | 100 | 110 | 90 | -180 | -15 | 130 | 115 | 60 | 70 | 140 | -60 | -50 | 80 | 58 | 543 | |
| 16 | 45 | 55 | 92 | 85 | 90 | 110 | 95 | 110 | 98 | 98 | 98 | 95 | 128 | 135 | 122 | 60 | 90 | 95 | 80 | 30 | 20 | 50 | 135 | 40 | 86 | 285 | |
| 17 | 72 | 85 | 100 | 90 | 82 | 88 | 90 | 92 | 92 | 95 | 95 | 95 | 95 | 95 | 100 | 100 | 95 | 40 | 110 | 110 | 50 | -10 | -60 | -25 | 74 | 251 | |
| 18 | 20 | -30 | 30 | 40 | 60 | 70 | 83 | 95 | 120 | 100 | 105 | 120 | 120 | 110 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | |
| 19 | 35 | 45 | 62 | 88 | 90 | 70 | 88 | 90 | 98 | 100 | 98 | 95 | 132 | 110 | 105 | 105 | 113 | 60 | 110 | 104 | 125 | 105 | 90 | 75 | 82 | 90 | |
| 20 | 30 | 50 | 78 | 78 | 70 | 63 | 68 | 82 | 100 | 100 | 113 | 112 | 117 | 118 | 145 | 140 | 140 | 105 | 88 | 93 | 85 | 100 | 68 | 60 | 92 | 129 | |
| 21 | 72 | 70 | 70 | 80 | 82 | 87 | 88 | 88 | 90 | 92 | 95 | 90 | 98 | 120 | 95 | 88 | 88 | 92 | 92 | 80 | 85 | 78 | 75 | 48 | 85 | 115 | |
| 22 | 42 | 65 | 70 | 70 | 72 | 73 | 85 | 93 | 95 | 97 | 97 | 95 | 98 | 98 | 92 | 98 | 100 | 105 | 98 | 95 | 100 | 92 | 80 | 65 | 65 | 85 | 74 |
| 23 | 77 | 78 | 70 | 68 | 72 | 80 | 80 | 82 | 87 | 87 | 87 | 88 | 88 | 88 | 90 | 92 | 90 | 92 | 90 | 92 | 90 | 75 | 73 | 73 | 83 | 41 | |
| 24 | 80 | 80 | 80 | 75 | 75 | 78 | 80 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| 25 | 80 | 70 | 72 | 78 | 78 | 78 | 77 | 77 | 78 | 80 | 80 | 82 | 85 | 88 | 85 | 88 | 87 | 85 | 85 | 88 | 85 | 83 | 83 | 82 | 81 | 34 | |

Tromsø.

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

Gr. M. T.

OCTOBER 1936.

HOURLY MEAN VALUES

Table for October 1936 showing magnetic observations. Columns include Day (1-31), 24 hours of hourly mean values, and summary statistics (M, PS, NS, AS). Rows include M, MPS, and MNS.

NOVEMBER

Table for November 1936 showing magnetic observations. Columns include Day (1-30), 24 hours of hourly mean values, and summary statistics (M, PS, NS, AS). Rows include M, MPS, and MNS.

DECEMBER

Table for December 1936 showing magnetic observations. Columns include Day (1-31), 24 hours of hourly mean values, and summary statistics (M, PS, NS, AS). Rows include M, MPS, and MNS.

Resuming Tables.

Diurnal Variation.
QUIET VALUES.

Tromsø.

Declination. Unit Gamma. + West.

| 1936. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|-----------|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| JANUARY | -5 | -5 | -5 | -5 | -4 | -3 | -2 | -1 | 1 | 4 | 6 | 7 | 6 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | -1 | -3 | -4 | -5 |
| FEBRUARY | -4 | -4 | -3 | -2 | -2 | -2 | -1 | 0 | 1 | 4 | 6 | 6 | 8 | 7 | 5 | 3 | 1 | 0 | -1 | -2 | -3 | -4 | -4 | -4 |
| MARCH | -4 | -4 | -5 | -6 | -7 | -8 | -10 | -8 | 4 | 0 | 4 | 9 | 11 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 1 | -1 | -2 | -4 |
| APRIL | -2 | -5 | -9 | -12 | -17 | -22 | -27 | -22 | -12 | 3 | 11 | 16 | 25 | 24 | 16 | 6 | 5 | 3 | 3 | 2 | 1 | 0 | -2 | -2 |
| MAY | -5 | -10 | -15 | -22 | -24 | -25 | -23 | -17 | -7 | 1 | 16 | 26 | 28 | 16 | 8 | 5 | 3 | 10 | 13 | 16 | 11 | 6 | 3 | -2 |
| JUNE | -8 | -12 | -21 | -26 | -29 | -26 | -23 | -19 | -11 | 2 | 11 | 19 | 26 | 21 | 14 | 12 | 11 | 14 | 15 | 18 | 11 | 4 | 1 | -4 |
| JULY | -8 | -14 | -20 | -25 | -27 | -26 | -24 | -21 | -11 | -3 | 12 | 22 | 31 | 27 | 21 | 14 | 12 | 11 | 11 | 11 | 9 | 7 | 2 | -3 |
| AUGUST | -7 | -11 | -16 | -18 | -21 | -22 | -20 | -14 | -6 | 2 | 10 | 15 | 19 | 17 | 15 | 12 | 10 | 10 | 10 | 9 | 7 | 4 | 0 | -3 |
| SEPTEMBER | -6 | -6 | -7 | -13 | -15 | -17 | -16 | -13 | -6 | 2 | 9 | 16 | 17 | 14 | 12 | 9 | 7 | 7 | 6 | 4 | 2 | 0 | -1 | -4 |
| OCTOBER | -3 | -4 | -5 | -6 | -8 | -11 | -12 | -11 | -7 | 1 | 9 | 11 | 11 | 10 | 8 | 6 | 4 | 3 | 2 | 1 | 0 | -2 | -3 | -4 |
| NOVEMBER | -3 | -3 | -4 | -4 | -5 | -6 | -6 | -5 | -3 | 1 | 5 | 7 | 8 | 7 | 6 | 5 | 4 | 3 | 1 | 0 | -1 | -2 | -4 | -4 |
| DECEMBER | -2 | -2 | -3 | -3 | -3 | -4 | -3 | -3 | -2 | 0 | 4 | 6 | 7 | 6 | 5 | 3 | 2 | 1 | 0 | -1 | -2 | -2 | -2 | -2 |
| MEAN | -5 | -7 | -9 | -12 | -14 | -14 | -14 | -11 | -6 | 1 | 9 | 13 | 16 | 14 | 10 | 7 | 6 | 6 | 6 | 5 | 3 | 1 | -1 | -3 |

Horizontal Intensity. Unit Gamma.

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----|----|----|----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| JANUARY | -4 | -4 | -2 | -1 | 1 | 3 | 3 | 1 | -1 | -3 | -3 | -2 | -2 | -2 | -1 | 0 | 2 | 4 | 6 | 6 | 5 | 1 | -2 | |
| FEBRUARY | -1 | 1 | 1 | 2 | 3 | 3 | 3 | 1 | -1 | -4 | -6 | -4 | -2 | -1 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | -2 | -2 |
| MARCH | 4 | 5 | 5 | 5 | 5 | 4 | 2 | -3 | -8 | -13 | -15 | -15 | -11 | -8 | -3 | 0 | 4 | 7 | 7 | 7 | 7 | 6 | 5 | 5 |
| APRIL | 4 | 6 | 9 | 9 | 6 | 1 | -9 | -16 | -19 | -24 | -24 | -16 | -9 | -2 | 3 | 6 | 9 | 11 | 14 | 14 | 9 | 6 | 4 | 4 |
| MAY | 10 | 10 | 9 | 7 | 2 | -5 | -12 | -17 | -20 | -23 | -23 | -17 | -10 | -5 | -2 | 3 | 8 | 12 | 15 | 15 | 12 | 10 | 9 | 8 |
| JUNE | 6 | 6 | 6 | 6 | 3 | -4 | -11 | -19 | -24 | -27 | -29 | -22 | -14 | -6 | 1 | 9 | 16 | 19 | 21 | 21 | 16 | 11 | 6 | 6 |
| JULY | 9 | 9 | 8 | 6 | 4 | -2 | -9 | -17 | -24 | -27 | -29 | -21 | -19 | -11 | -4 | 3 | 8 | 11 | 15 | 21 | 21 | 14 | 11 | 11 |
| AUGUST | 8 | 10 | 11 | 11 | 5 | 0 | -10 | -17 | -25 | -29 | -27 | -24 | -17 | -9 | 1 | 10 | 12 | 14 | 15 | 15 | 14 | 12 | 10 | 8 |
| SEPTEMBER | 10 | 10 | 10 | 9 | 7 | 5 | 0 | -8 | -18 | -25 | -26 | -23 | -15 | -10 | -5 | -1 | 4 | 9 | 12 | 15 | 15 | 14 | 12 | 10 |
| OCTOBER | 3 | 4 | 4 | 3 | 1 | -1 | -2 | -7 | -9 | -11 | -12 | -10 | -8 | -6 | -4 | -1 | 1 | 4 | 6 | 8 | 8 | 7 | 6 | 4 |
| NOVEMBER | -1 | -1 | 0 | 1 | 1 | 1 | 0 | -2 | -4 | -6 | -7 | -5 | -4 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 3 | 1 |
| DECEMBER | -1 | -1 | 0 | 1 | 1 | 2 | 2 | 0 | -1 | -3 | -6 | -5 | -3 | -2 | -1 | 0 | 2 | 3 | 3 | 2 | 2 | 1 | 0 | 0 |
| MEAN | 4 | 5 | 5 | 5 | 3 | 1 | -4 | -9 | -13 | -16 | -17 | -14 | -10 | -5 | -1 | 2 | 6 | 8 | 10 | 11 | 10 | 8 | 6 | 4 |

Vertical Intensity. Unit Gamma.

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|----|----|----|----|----|----|----|----|
| JANUARY | -5 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 5 | 6 | 6 | 5 | 5 | 4 | 2 | 2 | 1 | 0 | -1 | -4 | -5 | -5 |
| FEBRUARY | -7 | -7 | -7 | -6 | -6 | -5 | -3 | -2 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 5 | 4 | 3 | 2 | 0 | -1 | -3 | -5 |
| MARCH | -4 | -3 | -2 | -2 | -3 | -3 | -2 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 3 | 3 | 2 | 1 | 0 | -1 | -2 | -3 | -4 |
| APRIL | -3 | 0 | 3 | 3 | 2 | 1 | 0 | -1 | -1 | 0 | 1 | 1 | 2 | 3 | 4 | 4 | 3 | 2 | 1 | -1 | -2 | -3 | -4 | -4 |
| MAY | -2 | 0 | 2 | 3 | 3 | 2 | 0 | -2 | -3 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 3 | 1 | 0 | -1 | -2 | -3 | -4 |
| JUNE | -2 | -1 | 0 | 1 | 1 | 1 | 0 | -1 | -2 | -2 | -1 | 1 | 3 | 4 | 4 | 3 | 2 | 1 | 0 | -1 | -1 | -2 | -3 | -4 |
| JULY | -5 | -4 | -3 | -2 | -1 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 4 | 3 | 2 | 1 | 0 | 0 | -1 | -1 | -2 | -3 | -4 | -5 |
| AUGUST | -3 | -1 | 0 | 0 | 0 | -1 | -1 | -2 | -2 | 0 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 0 | 0 | -1 | -2 | -3 | -4 | -5 |
| SEPTEMBER | -6 | -3 | -2 | -2 | -1 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 0 | 0 | -1 | -2 | -2 | -3 | -5 | -6 | -7 | -7 |
| OCTOBER | -4 | -4 | -4 | -4 | -3 | -2 | -1 | 1 | 3 | 4 | 6 | 7 | 7 | 6 | 5 | 2 | 1 | -1 | -1 | -2 | -3 | -4 | -4 | -5 |
| NOVEMBER | -1 | -1 | -1 | -2 | -3 | -3 | -2 | -1 | 0 | 0 | 1 | 3 | 4 | 4 | 4 | 3 | 3 | 1 | 0 | 0 | -1 | -2 | -2 | -3 |
| DECEMBER | -3 | -2 | -1 | -1 | -1 | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 4 | 3 | 2 | 0 | -1 | -1 | -2 | -3 | -4 | -5 | -6 | -7 |
| MEAN | -4 | -3 | -2 | -1 | -1 | -1 | -1 | 0 | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 0 | -1 | -2 | -3 | -4 | -5 |

Monthly Means.

| DECLINATION. | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | MEAN |
|--|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-------|
| DIRECT VALUES. $D = 3^{\circ}W + \dots$ | 9.0 | 8.0 | 7.0 | 6.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.0 | 2.0 | 0 | 0.5 | 4.8 |
| QUIET VALUES. $D_0 = 3^{\circ}W + \dots$ | 10.0 | 9.5 | 9.0 | 8.0 | 6.5 | 6.0 | 5.0 | 5.0 | 4.0 | 2.5 | 1.0 | 1.0 | 5.6 |
| RANGE. | 57 | 76 | 69 | 93 | 64 | 70 | 69 | 44 | 34 | 65 | 66 | 40 | 62.3 |
| QUIET RANGE. | 12 | 12 | 21 | 52 | 53 | 55 | 58 | 39 | 34 | 23 | 14 | 11 | 32.0 |
| STORMINESS, MEAN (UNIT γ). | -3 | -3 | -7 | -5 | -1 | -3 | 0 | -2 | 0 | -3 | -5 | -1 | -2.8 |
| DIURNAL SUM PS (UNIT γ). | 109 | 172 | 115 | 198 | 184 | 161 | 206 | 72 | 86 | 118 | 106 | 86 | 134 |
| NS | 177 | 258 | 282 | 325 | 220 | 230 | 197 | 119 | 71 | 181 | 216 | 116 | 199 |
| AS | 286 | 430 | 397 | 523 | 404 | 391 | 403 | 191 | 157 | 300 | 322 | 201 | 334 |
| HORIZONTAL INTENSITY. | | | | | | | | | | | | | |
| DIRECT VALUES. $H = 11300 + \dots$ | 91 | 90 | 75 | 73 | 80 | 80 | 89 | 79 | 84 | 68 | 66 | 76 | 79.2 |
| QUIET VALUES. $H_0 = 11300 + \dots$ | 102 | 99 | 98 | 94 | 90 | 94 | 89 | 87 | 83 | 73 | 79 | 78 | 89.3 |
| RANGE. | 372 | 473 | 401 | 542 | 444 | 443 | 466 | 285 | 225 | 330 | 365 | 220 | 381 |
| QUIET RANGE. | 10 | 9 | 22 | 38 | 38 | 50 | 50 | 44 | 41 | 20 | 11 | 9 | 29 |
| STORMINESS, MEAN (UNIT γ). | -9 | -8 | -22 | -21 | -10 | -13 | -2 | -8 | 0 | -15 | -13 | -2 | -10.3 |
| DIURNAL SUM PS (UNIT γ). | 240 | 469 | 294 | 540 | 524 | 394 | 620 | 251 | 280 | 297 | 287 | 204 | 367 |
| NS | 523 | 670 | 831 | 1038 | 772 | 716 | 664 | 436 | 279 | 558 | 593 | 248 | 611 |
| AS | 763 | 1140 | 1125 | 1578 | 1297 | 1110 | 1284 | 686 | 569 | 854 | 880 | 452 | 977 |
| VERTICAL INTENSITY. | | | | | | | | | | | | | |
| DIRECT VALUES. $V = 50200 + \dots$ | 59 | 59 | 70 | 95 | 78 | 82 | 74 | 73 | 72 | 85 | 83 | 86 | 76 |
| QUIET VALUES. $V_0 = 50200 + \dots$ | | | | | | | | | | | | | |
| RANGE. | 246 | 334 | 258 | 375 | 279 | 303 | 277 | 170 | 141 | 262 | 272 | 157 | 256 |
| QUIET RANGE. | 11 | 15 | 8 | 8 | 7 | 8 | 9 | 8 | 10 | 12 | 7 | 12 | 9 |
| STORMINESS, MEAN (UNIT γ). | -5 | -5 | 4 | 14 | 5 | 9 | 1 | -2 | -4 | 1 | -2 | 1 | 1.4 |
| DIURNAL SUM PS (UNIT γ). | 175 | 217 | 329 | 569 | 326 | 425 | 331 | 144 | 127 | 256 | 206 | 182 | 274 |
| NS | 284 | 344 | 228 | 243 | 211 | 206 | 294 | 189 | 225 | 225 | 259 | 151 | 238 |
| AS | 458 | 560 | 557 | 812 | 537 | 632 | 625 | 333 | 352 | 481 | 465 | 333 | 512 |

Resuming Tables.

Storminess.

Tromsø.

Declination. Unit Gamma. + West.

| 1936. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|
| JAN MPS | 0 | 1 | 1 | 1 | 1 | 3 | 3 | 5 | 4 | 5 | 3 | 6 | 5 | 9 | 9 | 8 | 9 | 10 | 10 | 10 | 4 | 2 | 1 | 1 | |
| FEB MPS | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 3 | 5 | 5 | 6 | 8 | 10 | 22 | 13 | 16 | 16 | 27 | 23 | 13 | 6 | 2 | 0 | 0 | |
| MAR MPS | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 2 | 7 | 11 | 13 | 16 | 15 | 11 | 6 | 8 | 11 | 7 | 3 | 1 | 0 | 0 | |
| APR MPS | 0 | 1 | 0 | 0 | 1 | 2 | 4 | 4 | 3 | 2 | 4 | 7 | 6 | 11 | 17 | 21 | 27 | 26 | 30 | 23 | 8 | 0 | 2 | 0 | |
| MAY MPS | 1 | 1 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 7 | 5 | 7 | 8 | 15 | 21 | 20 | 21 | 21 | 15 | 12 | 10 | 7 | 1 | 1 | |
| JUN MPS | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 2 | 1 | 3 | 4 | 7 | 10 | 13 | 14 | 16 | 17 | 18 | 17 | 15 | 10 | 6 | 1 | |
| JUL MPS | 0 | 0 | 1 | 2 | 2 | 4 | 5 | 6 | 6 | 5 | 3 | 4 | 2 | 8 | 18 | 26 | 23 | 23 | 25 | 22 | 12 | 6 | 1 | 1 | |
| AUG MPS | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 5 | 6 | 3 | 2 | 6 | 8 | 11 | 7 | 3 | 1 | 1 | |
| SEP MPS | 1 | 1 | 0 | 1 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 5 | 6 | 11 | 11 | 9 | 11 | 6 | 4 | 4 | 2 | 1 | 0 | 1 | |
| OCT MPS | 0 | 1 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 2 | 3 | 6 | 7 | 10 | 12 | 11 | 17 | 16 | 13 | 5 | 2 | 1 | 1 | 1 | |
| NOV MPS | 0 | 1 | 1 | 0 | 1 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 12 | 10 | 12 | 11 | 8 | 3 | 1 | 0 | 0 |
| DEC MPS | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 5 | 6 | 6 | 9 | 10 | 8 | 9 | 8 | 4 | 2 | 1 | 1 | |
| MEAN | 0 | 1 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | 6 | 7 | 11 | 12 | 13 | 14 | 15 | 15 | 12 | 6 | 3 | 1 | 1 | |
| JAN MNS | 28 | 28 | 16 | 10 | 9 | 5 | 2 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 2 | 2 | 3 | 4 | 7 | 14 | 12 | 12 | 18 | |
| FEB MNS | 32 | 29 | 31 | 22 | 15 | 6 | 4 | 2 | 1 | 2 | 2 | 0 | 1 | 2 | 1 | 1 | 5 | 2 | 4 | 7 | 8 | 25 | 25 | 31 | |
| MAR MNS | 38 | 45 | 41 | 29 | 15 | 9 | 5 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 3 | 10 | 19 | 23 | 29 | |
| APR MNS | 47 | 50 | 42 | 35 | 23 | 12 | 6 | 5 | 6 | 4 | 2 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 2 | 4 | 22 | 21 | 35 | 35 | |
| MAY MNS | 32 | 39 | 34 | 18 | 9 | 8 | 5 | 5 | 5 | 3 | 2 | 1 | 2 | 1 | 0 | 0 | 1 | 2 | 3 | 3 | 5 | 14 | 26 | 26 | |
| JUN MNS | 34 | 36 | 26 | 16 | 12 | 7 | 11 | 10 | 11 | 12 | 7 | 6 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 8 | 25 | |
| JUL MNS | 24 | 32 | 26 | 13 | 5 | 3 | 3 | 4 | 6 | 6 | 8 | 9 | 9 | 5 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 4 | 14 | 20 | |
| AUG MNS | 18 | 21 | 19 | 13 | 6 | 4 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 | 8 | 12 | |
| SEP MNS | 6 | 6 | 8 | 5 | 2 | 1 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 12 | 11 | |
| OCT MNS | 22 | 26 | 25 | 16 | 9 | 4 | 1 | 0 | 1 | 2 | 1 | 0 | 2 | 0 | 0 | 2 | 1 | 1 | 1 | 3 | 9 | 12 | 22 | 23 | |
| NOV MNS | 27 | 29 | 26 | 16 | 9 | 6 | 4 | 3 | 4 | 2 | 1 | 0 | 1 | 1 | 3 | 1 | 4 | 2 | 1 | 3 | 5 | 15 | 25 | 29 | |
| DEC MNS | 14 | 11 | 8 | 6 | 5 | 3 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 0 | 2 | 0 | 1 | 11 | 10 | 13 | 11 |
| MEAN | 27 | 29 | 25 | 17 | 10 | 6 | 4 | 3 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 6 | 11 | 16 | 23 | |
| JAN MPS - MNS | -28 | -27 | -16 | -9 | -8 | -2 | 1 | 4 | 3 | 3 | 2 | 5 | 4 | 9 | 9 | 6 | 7 | 7 | 6 | 3 | -10 | -9 | -11 | -17 | |
| FEB MPS - MNS | -32 | -29 | -31 | -22 | -14 | -4 | -1 | 2 | 4 | 4 | 4 | 8 | 10 | 19 | 11 | 15 | 11 | 25 | 19 | 6 | -2 | -23 | -24 | -31 | |
| MAR MPS - MNS | -38 | -45 | -41 | -29 | -15 | -9 | -3 | -3 | -3 | 0 | 7 | 11 | 13 | 16 | 15 | 10 | 4 | 7 | 10 | 5 | -7 | -18 | -23 | -29 | |
| APR MPS - MNS | -47 | -49 | -41 | -35 | -22 | -11 | -2 | -2 | -3 | -2 | 2 | 7 | 4 | 10 | 16 | 20 | 26 | 26 | 30 | 21 | 4 | -22 | -19 | -35 | |
| MAY MPS - MNS | -31 | -38 | -33 | -17 | -8 | -8 | -3 | -2 | -1 | 4 | 4 | 6 | 15 | 20 | 19 | 21 | 20 | 13 | 9 | 7 | 2 | -13 | -25 | -25 | |
| JUN MPS - MNS | -33 | -36 | -26 | -16 | -12 | -7 | -10 | -7 | -9 | -11 | -3 | -1 | 5 | 12 | 13 | 16 | 16 | 18 | 16 | 15 | 8 | -2 | -24 | -24 | |
| JUL MPS - MNS | -24 | -31 | -25 | -11 | -3 | 1 | 2 | 2 | 0 | -1 | -4 | -5 | -7 | 3 | 16 | 25 | 22 | 23 | 25 | 21 | 11 | 2 | -13 | -19 | |
| AUG MPS - MNS | -17 | -20 | -19 | -12 | -6 | -2 | -1 | -1 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 2 | 2 | 5 | 8 | 11 | 5 | -1 | -7 | -10 | |
| SEP MPS - MNS | -5 | -5 | -8 | -4 | 0 | 1 | -1 | 0 | 0 | 1 | 3 | 5 | 5 | 11 | 10 | 8 | 10 | 5 | 3 | 2 | 2 | -3 | -12 | -11 | |
| OCT MPS - MNS | -21 | -25 | -25 | -15 | -8 | -2 | 2 | 3 | 2 | 0 | 2 | 6 | 5 | 10 | 11 | 9 | 16 | 15 | 12 | 2 | -7 | -11 | -22 | -22 | |
| NOV MPS - MNS | -26 | -29 | -25 | -16 | -8 | -4 | 1 | 0 | -1 | 1 | 2 | 5 | 5 | 6 | 5 | 11 | 7 | 10 | 10 | 5 | -1 | -14 | -25 | -28 | |
| DEC MPS - MNS | -13 | -11 | -8 | -5 | -3 | -2 | -1 | 0 | 0 | 1 | -1 | 2 | 4 | 3 | 4 | 8 | 10 | 6 | 9 | 7 | -7 | -8 | -12 | -10 | |
| MEAN | -26 | -29 | -25 | -16 | -9 | -4 | -1 | 0 | -1 | 0 | 2 | 4 | 5 | 10 | 11 | 12 | 13 | 14 | 14 | 9 | -1 | -8 | -15 | -22 | |

Horizontal Intensity. Unit Gamma.

| 1936. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|---------|-----|-----|----|----|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|
| JAN MPS | 1 | 1 | 1 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 5 | 9 | 14 | 37 | 34 | 31 | 27 | 27 | 14 | 8 | 5 | 3 | 1 | 1 |
| FEB MPS | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 11 | 19 | 26 | 45 | 63 | 76 | 72 | 53 | 51 | 19 | 4 | 0 | 0 | 1 |
| MAR MPS | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 3 | 2 | 7 | 18 | 27 | 43 | 43 | 45 | 38 | 32 | 21 | 6 | 2 | 1 | 4 | 0 |
| APR MPS | 2 | 2 | 0 | 0 | 1 | 2 | 4 | 4 | 10 | 18 | 24 | 36 | 62 | 78 | 85 | 72 | 62 | 48 | 22 | 8 | 1 | 0 | 0 | 0 |
| MAY MPS | 2 | 1 | 2 | 3 | 5 | 7 | 7 | 7 | 6 | 13 | 22 | 36 | 65 | 77 | 81 | 59 | 44 | 48 | 20 | 11 | 5 | 2 | 0 | 0 |
| JUN MPS | 1 | 3 | 1 | 2 | 3 | 5 | 4 | 3 | 4 | 10 | 19 | 27 | 32 | 41 | 54 | 51 | 51 | 42 | 26 | 12 | 2 | 1 | 0 | 0 |
| JUL MPS | 1 | 1 | 1 | 1 | 5 | 4 | 3 | 7 | 10 | 17 | 33 | 54 | 81 | 89 | 96 | 79 | 58 | 44 | 26 | 6 | 2 | 1 | 1 | 1 |
| AUG MPS | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 4 | 3 | 6 | 8 | 14 | 23 | 34 | 35 | 27 | 20 | 29 | 23 | 15 | 3 | 0 | 0 | 0 |
| SEP MPS | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 5 | 5 | 7 | 10 | 17 | 23 | 40 | 52 | 39 | 34 | 19 | 12 | 5 | 1 | 0 | 0 | 0 |
| OCT MPS | 2 | 1 | 1 | 1 | 3 | 4 | 4 | 6 | 4 | 7 | 14 | 17 | 19 | 39 | 43 | 51 | 38 | 21 | 12 | 6 | 2 | 1 | 1 | 1 |
| NOV MPS | 0 | 1 | 2 | 4 | 7 | 8 | 5 | 4 | 6 | 4 | 7 | 9 | 14 | 28 | 38 | 50 | 39 | 27 | 21 | 7 | 2 | 2 | 1 | 1 |
| DEC MPS | 1 | 1 | 1 | 2 | 3 | 3 | 2 | 3 | 5 | 6 | 4 | 5 | 8 | 11 | 13 | 20 | 26 | 21 | 20 | 17 | 10 | 10 | 8 | 3 |
| MEAN | 1 | 1 | 1 | 1 | 3 | 4 | 3 | 4 | 5 | 8 | 14 | 22 | 33 | 47 | 53 | 50 | 42 | 34 | 22 | 10 | 3 | 2 | 1 | 1 |
| JAN MNS | 68 | 68 | 33 | 19 | 15 | 7 | 9 | 3 | 5 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 23 | 27 | 46 | 43 | 77 | 80 |
| FEB MNS | 84 | 94 | 52 | 31 | 17 | 6 | 5 | 3 | 2 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 22 | 33 | 56 | 96 | 85 | 79 |
| MAR MNS | 109 | 103 | 84 | 55 | 27 | 19 | 10 | 4 | 5 | 6 | 7 | 5 | 2 | 1 | 1 | 0 | 2 | 2 | 12 | 41 | 53 | 85 | 93 | 104 |
| APR MNS | 136 | 115 | 82 | 68 | 35 | 23 | 12 | 5 | 3 | 3 | 2 | 5 | 4 | 2 | 2 | 1 | 0 | 2 | 8 | 45 | 93 | 129 | 124 | 140 |
| MAY MNS | 107 | 102 | 79 | 35 | 19 | 10 | 6 | 5 | 4 | 2 | 0 | 2 | 2 | 1 | 1 | 1 | 0 | 1 | 21 | 48 | 57 | 67 | 95 | 107 |
| JUN MNS | 110 | 101 | 73 | 47 | 32 | 9 | 10 | 9 | 8 | 2 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 10 | 44 | 50 | 84 | 114 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-----------|------|------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|------|------|------|
| JUL | MNS | 108 | 97 | 76 | 39 | 19 | 11 | 3 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 38 | 40 | 55 | 80 | 91 | |
| AUG | MNS | 72 | 68 | 46 | 29 | 14 | 5 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 24 | 58 | 49 | 56 |
| SEP | MNS | 32 | 30 | 30 | 17 | 8 | 5 | 3 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 3 | 13 | 37 | 49 | 39 |
| OCT | MNS | 57 | 60 | 66 | 46 | 22 | 9 | 3 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 0 | 0 | 1 | 10 | 12 | 29 | 38 | 54 | 80 | 60 |
| NOV | MNS | 74 | 66 | 49 | 37 | 19 | 13 | 6 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 10 | 9 | 12 | 39 | 84 | 86 | 78 | |
| DEC | MNS | 34 | 23 | 19 | 15 | 9 | 5 | 4 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 3 | 4 | 7 | 23 | 29 | 32 | 28 |
| MEAN | | 83 | 77 | 58 | 37 | 20 | 10 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 10 | 25 | 43 | 66 | 78 | 81 | |
| JAN | MPS - MNS | -66 | -67 | -32 | -17 | -12 | -4 | -6 | 0 | -3 | 2 | 3 | 8 | 13 | 36 | 34 | 31 | 27 | 26 | -10 | -19 | -34 | -41 | -76 | -78 |
| FEB | MPS - MNS | -83 | -92 | -51 | -29 | -15 | -3 | -1 | 2 | 4 | 6 | 10 | 18 | 25 | 44 | 62 | 76 | 72 | 50 | 29 | -14 | -52 | -96 | -85 | -78 |
| MAR | MPS - MNS | -109 | -102 | -83 | -55 | -26 | -17 | -10 | -3 | -2 | -5 | 0 | 13 | 25 | 42 | 42 | 45 | 36 | 30 | 9 | -36 | -51 | -85 | -89 | -104 |
| APR | MPS - MNS | -135 | -113 | -82 | -68 | -34 | -21 | -8 | -1 | 7 | 14 | 22 | 31 | 58 | 76 | 83 | 71 | 62 | 46 | 15 | -37 | -92 | -129 | -124 | -140 |
| MAY | MPS - MNS | -105 | -101 | -77 | -32 | -14 | -3 | 1 | 3 | 2 | 11 | 22 | 34 | 63 | 76 | 80 | 59 | 44 | 47 | -1 | -37 | -52 | -65 | -95 | -107 |
| JUN | MPS - MNS | -109 | -98 | -72 | -45 | -29 | -4 | -6 | -5 | -4 | 8 | 15 | 25 | 30 | 40 | 53 | 50 | 41 | 25 | 2 | -41 | -49 | -84 | -114 | |
| JUL | MPS - MNS | -107 | -96 | -75 | -38 | -15 | -7 | 1 | 6 | 9 | 18 | 32 | 53 | 80 | 89 | 96 | 79 | 58 | 44 | 23 | -31 | -38 | -54 | -79 | -90 |
| AUG | MPS - MNS | -72 | -68 | -46 | -28 | -13 | -5 | 0 | 3 | 2 | 5 | 7 | 12 | 22 | 33 | 35 | 27 | 19 | 28 | 23 | 12 | -20 | -58 | -48 | -56 |
| SEP | MPS - MNS | -32 | -29 | -29 | -16 | -7 | -3 | 0 | 5 | 5 | 4 | 7 | 15 | 21 | 39 | 52 | 39 | 34 | 19 | 12 | 3 | -12 | -37 | -49 | -58 |
| OCT | MPS - MNS | -56 | -59 | -65 | -45 | -19 | -5 | 1 | 5 | 2 | 5 | 13 | 16 | 18 | 37 | 42 | 51 | 37 | 10 | 0 | -24 | -36 | -53 | -79 | -59 |
| NOV | MPS - MNS | -73 | -65 | -46 | -33 | -12 | -6 | -1 | 2 | 4 | 3 | 5 | 8 | 13 | 27 | 38 | 50 | 39 | 17 | 12 | -5 | -37 | -83 | -85 | -78 |
| DEC | MPS - MNS | -33 | -23 | -17 | -13 | -6 | -3 | -2 | 2 | 4 | 5 | 4 | 5 | 7 | 11 | 12 | 19 | 19 | 16 | 15 | 10 | -13 | -19 | -24 | -25 |
| MEAN | | -82 | -76 | -56 | -35 | -17 | -7 | -3 | 2 | 2 | 6 | 12 | 20 | 31 | 46 | 52 | 50 | 41 | 31 | 13 | -15 | -40 | -64 | -78 | -81 |

Vertical Intensity. Unit Gamma.

| 1936 | | 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 | 9 | 3 | 1 | 2 | 2 | 0 | 0 | 1 | 2 | 4 | 4 | 6 | 8 | 7 | 14 | 14 | 13 | 10 | 7 | 7 | 10 | 7 | 21 | 24 |
| FEB | MPS | 23 | 14 | 4 | 1 | 1 | 2 | 2 | 3 | 4 | 6 | 6 | 10 | 11 | 15 | 12 | 8 | 9 | 10 | 7 | 9 | 19 | 17 | 11 | 6 |
| MAR | MPS | 35 | 24 | 7 | 2 | 0 | 1 | 1 | 2 | 4 | 7 | 6 | 8 | 12 | 14 | 20 | 24 | 18 | 9 | 8 | 17 | 16 | 25 | 30 | 41 |
| APR | MPS | 56 | 38 | 9 | 11 | 10 | 5 | 3 | 5 | 7 | 10 | 9 | 15 | 18 | 17 | 19 | 21 | 15 | 9 | 8 | 26 | 50 | 68 | 64 | 79 |
| MAY | MPS | 26 | 20 | 4 | 1 | 1 | 1 | 3 | 5 | 8 | 10 | 12 | 14 | 19 | 25 | 22 | 19 | 14 | 6 | 3 | 3 | 10 | 37 | 38 | 23 |
| JUN | MPS | 23 | 12 | 17 | 12 | 16 | 7 | 20 | 18 | 14 | 11 | 14 | 14 | 15 | 17 | 17 | 19 | 15 | 12 | 11 | 7 | 19 | 24 | 46 | 44 |
| JUL | MPS | 36 | 19 | 17 | 3 | 1 | 3 | 3 | 4 | 7 | 12 | 11 | 12 | 13 | 22 | 22 | 17 | 12 | 9 | 8 | 15 | 18 | 20 | 21 | 28 |
| AUG | MPS | 6 | 3 | 0 | 0 | 1 | 1 | 1 | 1 | 3 | 2 | 2 | 5 | 9 | 14 | 17 | 20 | 15 | 8 | 3 | 3 | 5 | 5 | 9 | 11 |
| SEP | MPS | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 7 | 10 | 13 | 11 | 12 | 15 | 14 | 8 | 5 | 4 | 5 | 10 | 6 | 3 | |
| OCT | MPS | 20 | 24 | 12 | 6 | 5 | 1 | 1 | 1 | 2 | 3 | 5 | 6 | 10 | 11 | 14 | 11 | 10 | 8 | 10 | 7 | 18 | 25 | 30 | 15 |
| NOV | MPS | 12 | 7 | 10 | 5 | 6 | 4 | 2 | 4 | 6 | 7 | 8 | 7 | 9 | 9 | 8 | 11 | 9 | 10 | 8 | 19 | 19 | 8 | 9 | |
| DEC | MPS | 11 | 7 | 7 | 5 | 5 | 6 | 1 | 1 | 2 | 3 | 2 | 3 | 3 | 8 | 14 | 14 | 14 | 17 | 11 | 8 | 8 | 12 | 9 | 9 |
| MEAN | | 22 | 14 | 7 | 4 | 4 | 3 | 3 | 4 | 5 | 7 | 7 | 9 | 12 | 14 | 16 | 16 | 13 | 10 | 7 | 10 | 16 | 22 | 24 | 25 |
| JAN | MNS | 27 | 25 | 26 | 22 | 20 | 16 | 14 | 8 | 4 | 1 | 1 | 1 | 0 | 2 | 3 | 2 | 2 | 7 | 13 | 22 | 22 | 21 | 11 | 15 |
| FEB | MNS | 12 | 18 | 24 | 28 | 23 | 12 | 9 | 5 | 2 | 1 | 0 | 0 | 1 | 1 | 6 | 14 | 30 | 45 | 24 | 19 | 17 | 8 | 23 | 22 |
| MAR | MNS | 13 | 15 | 20 | 30 | 29 | 18 | 12 | 4 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 9 | 5 | 7 | 6 | 14 | 16 | 16 | |
| APR | MNS | 6 | 17 | 22 | 27 | 14 | 11 | 7 | 2 | 1 | 1 | 1 | 2 | 8 | 14 | 21 | 10 | 27 | 22 | 8 | 1 | 1 | 5 | 8 | 4 |
| MAY | MNS | 9 | 13 | 25 | 35 | 19 | 9 | 6 | 2 | 1 | 2 | 2 | 3 | 5 | 6 | 6 | 3 | 1 | 8 | 11 | 17 | 8 | 4 | 7 | 9 |
| JUN | MNS | 14 | 18 | 26 | 30 | 16 | 8 | 3 | 2 | 1 | 6 | 9 | 11 | 14 | 6 | 4 | 2 | 1 | 1 | 3 | 7 | 9 | 6 | 3 | 7 |
| JUL | MNS | 7 | 12 | 16 | 30 | 21 | 14 | 8 | 4 | 2 | 1 | 2 | 8 | 20 | 23 | 26 | 29 | 15 | 6 | 11 | 10 | 4 | 6 | 10 | 9 |
| AUG | MNS | 16 | 18 | 22 | 23 | 22 | 13 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 2 | 1 | 1 | 2 | 5 | 3 | 5 | 10 | 14 | 10 |
| SEP | MNS | 17 | 20 | 22 | 24 | 20 | 14 | 8 | 4 | 2 | 1 | 1 | 2 | 3 | 10 | 5 | 10 | 16 | 3 | 2 | 2 | 1 | 4 | 16 | 18 |
| OCT | MNS | 7 | 10 | 23 | 31 | 19 | 13 | 9 | 5 | 3 | 3 | 4 | 3 | 6 | 9 | 6 | 10 | 18 | 15 | 5 | 5 | 2 | 3 | 6 | 9 |
| NOV | MNS | 16 | 23 | 21 | 17 | 14 | 7 | 4 | 2 | 1 | 0 | 0 | 1 | 1 | 3 | 17 | 19 | 18 | 5 | 9 | 11 | 11 | 17 | 21 | 22 |
| DEC | MNS | 14 | 9 | 8 | 6 | 8 | 5 | 3 | 3 | 4 | 2 | 2 | 6 | 7 | 9 | 9 | 5 | 3 | 3 | 6 | 10 | 7 | 5 | 7 | 10 |
| MEAN | | 13 | 17 | 21 | 25 | 19 | 12 | 8 | 4 | 2 | 2 | 2 | 3 | 6 | 7 | 9 | 9 | 11 | 11 | 9 | 10 | 8 | 9 | 12 | 13 |
| JAN | MPS - MNS | -18 | -22 | -25 | -20 | -18 | -16 | -14 | -6 | -2 | 2 | 3 | 5 | 8 | 5 | 11 | 12 | 12 | 3 | -6 | -15 | -12 | -15 | 9 | 9 |
| FEB | MPS - MNS | 10 | -3 | -20 | -26 | -22 | -10 | -7 | -2 | 3 | 5 | 8 | 10 | 10 | 14 | 6 | -5 | -20 | -36 | -17 | -10 | 2 | 9 | -12 | -14 |
| MAR | MPS - MNS | 22 | 8 | -12 | -28 | -28 | -17 | -11 | -2 | 3 | 6 | 5 | 8 | 11 | 12 | 18 | 21 | 16 | 0 | 0 | 9 | 11 | 10 | 14 | 25 |
| APR | MPS - MNS | 50 | 20 | -14 | -16 | -4 | -6 | -4 | 3 | 6 | 9 | 8 | 13 | 10 | 2 | -2 | 11 | -12 | -13 | 0 | 24 | 49 | 63 | 56 | 75 |
| MAY | MPS - MNS | 17 | 7 | -20 | -34 | -19 | -8 | -3 | 6 | 8 | 10 | 11 | 14 | 19 | 16 | 12 | -3 | -8 | -13 | 3 | 33 | 31 | 15 | 15 | |
| JUN | MPS - MNS | 9 | -5 | -10 | -17 | 1 | -1 | 16 | 16 | 14 | 6 | 6 | 3 | 1 | 11 | 13 | 16 | 14 | 10 | 7 | 0 | 10 | 17 | 43 | 36 |
| JUL | MPS - MNS | 29 | 6 | 1 | -28 | -20 | -12 | -4 | 0 | 5 | 11 | 9 | 3 | -7 | -1 | -5 | -12 | -4 | 3 | -3 | 5 | 14 | 15 | 11 | 19 |
| AUG | MPS - MNS | -10 | -14 | -21 | -22 | -22 | -12 | -6 | -2 | 1 | -1 | 0 | 2 | 6 | 13 | 15 | 19 | 14 | 7 | -2 | 0 | 0 | -5 | -5 | 2 |
| SEP | MPS - MNS | -16 | -20 | -21 | -24 | -20 | -14 | -8 | -3 | -1 | 3 | 6 | 8 | 9 | 2 | 7 | 5 | -3 | 5 | 3 | 2 | 3 | 5 | -10 | -15 |
| OCT | MPS - MNS | 13 | 15 | -10 | -25 | -14 | -12 | -8 | -4 | -1 | 0 | 0 | 3 | 4 | 1 | 9 | 1 | -8 | -8 | 5 | 2 | 16 | 22 | 24 | 6 |
| NOV | MPS - MNS | -4 | -15 | -10 | -12 | -9 | -3 | -2 | 3 | 5 | 7 | 7 | 6 | 9 | 6 | -9 | -12 | -6 | 5 | 1 | -2 | 8 | 2 | -13 | -12 |
| DEC | MPS - MNS | -3 | -2 | -1 | -1 | -3 | 0 | -2 | -1 | -2 | 1 | 1 | -3 | -4 | -2 | 4 | 9 | 12 | 14 | 5 | -2 | 1 | 8 | 3 | -1 |
| MEAN | | 8 | -2 | -15 | -21 | -15 | -9 | -4 | 0 | 3 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 2 | -1 | -1 | 0 | 8 | 14 | 13 | 12 |

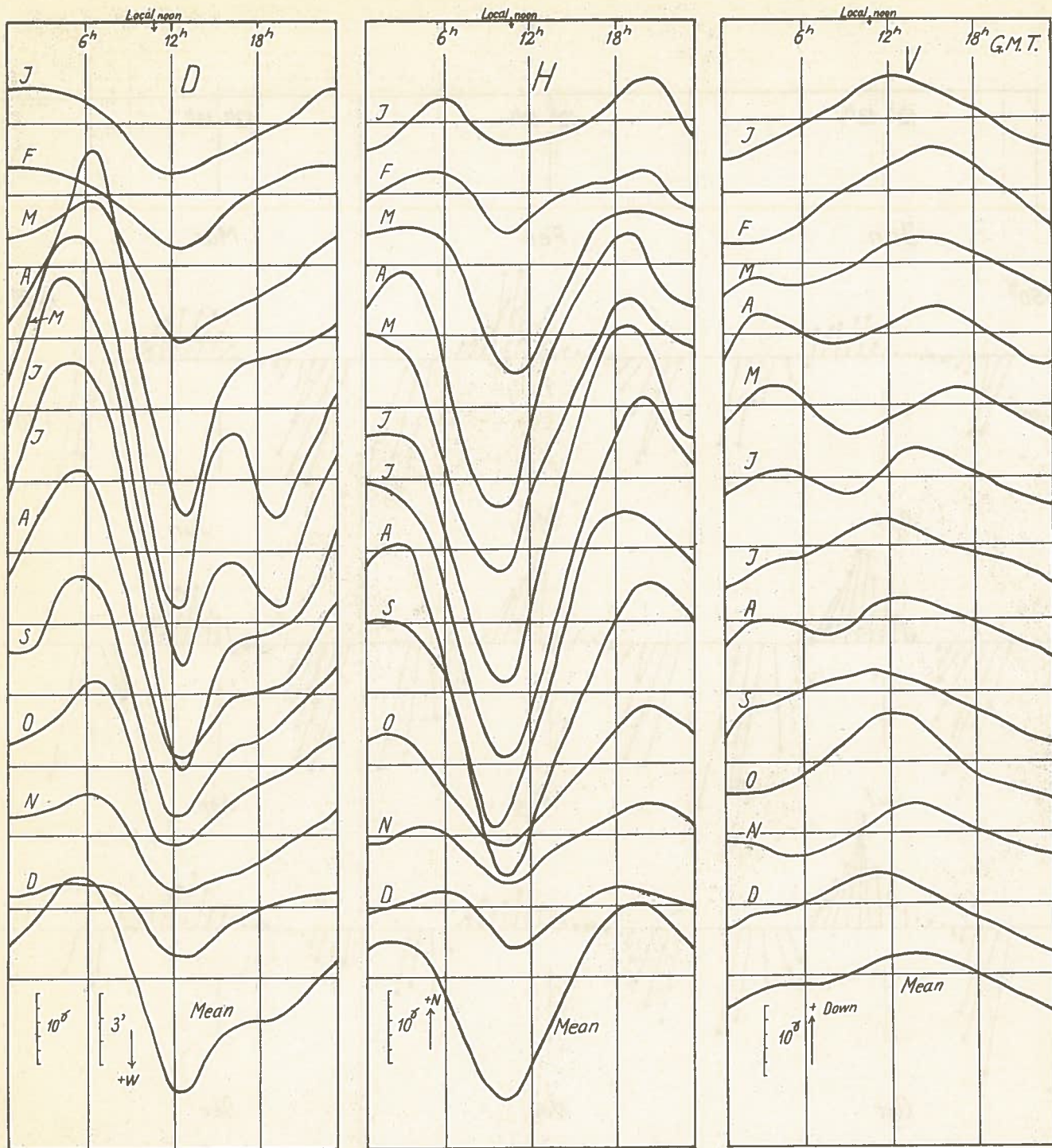


Fig. 1. The quiet Diurnal Variation, smoothed Values.

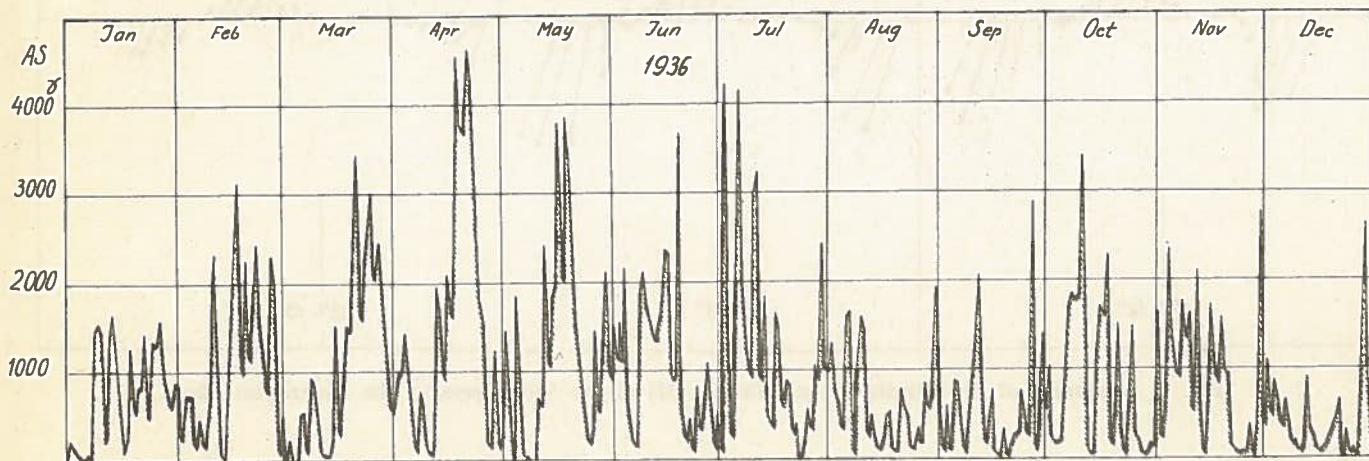


Fig. 2. The Diurnal Sum of the Absolute Storminess of H.

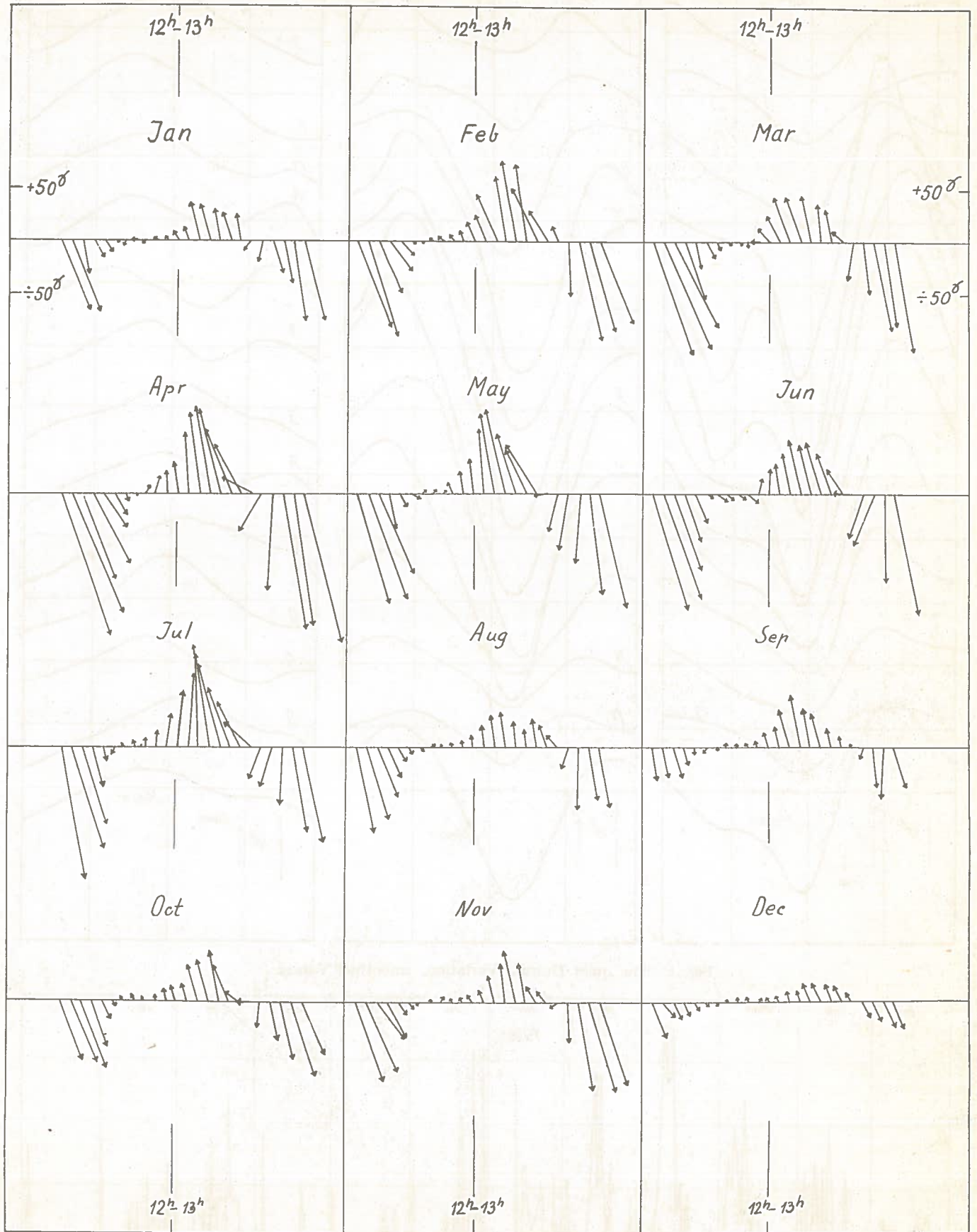


Fig. 3. Diagrams of the Monthly Mean Values (M) of the Storminess in the Horizontal Plane.

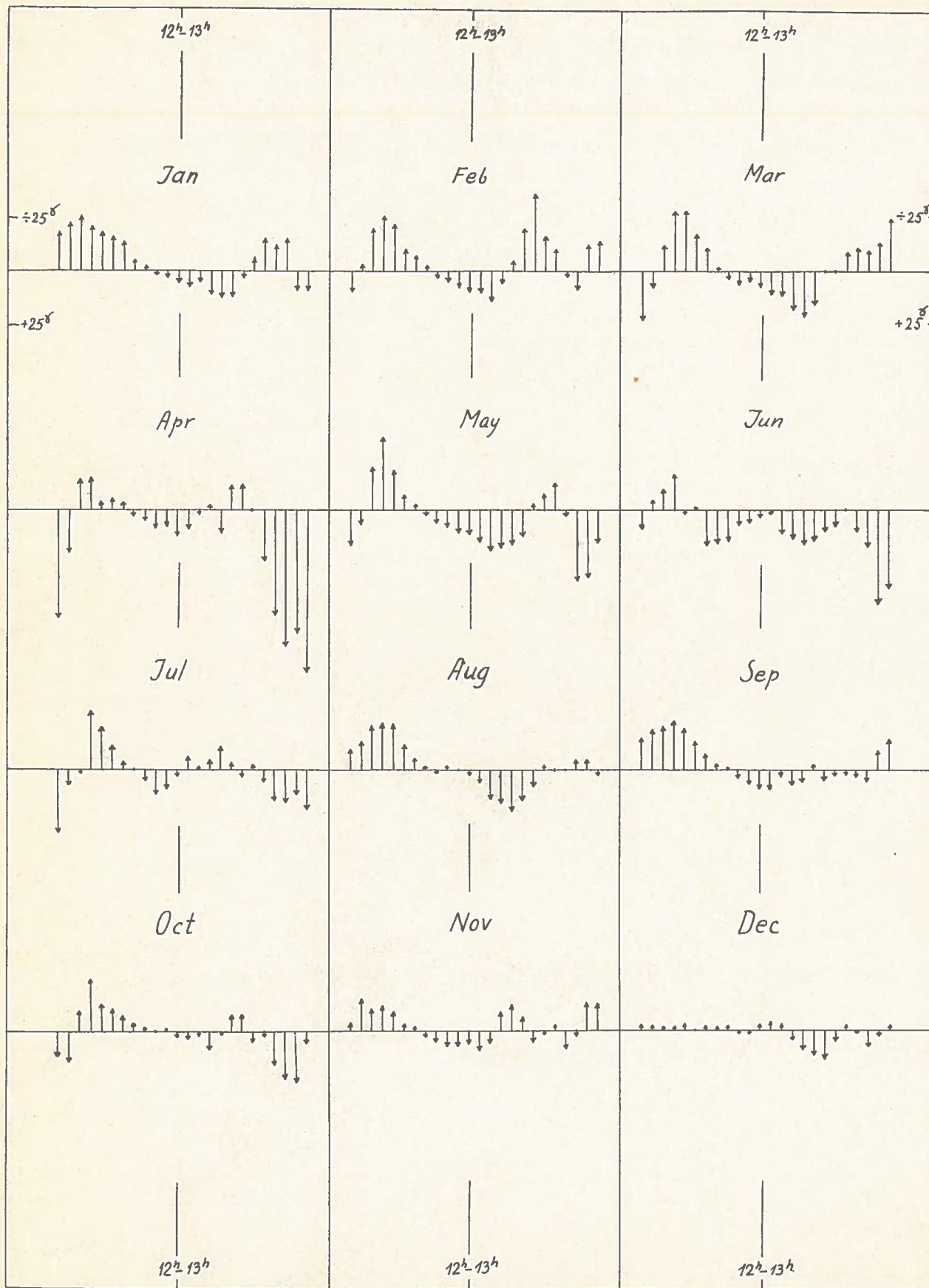


Fig. 4. Diagrams of the Monthly Mean Values (*M*) of the Storminess of the Vertical Intensity.

