

METEOROLOGICAL OFFICE

THE
OBSERVATORIES'
YEAR BOOK
1966

Comprising the geophysical results obtained from
autographic records and eye observations at the
Lerwick, Eskdalemuir and Kew Observatories

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PREFACE

The *Observatories' Year Book* was published for the years 1922 to 1937 in continuation of Part III Section II and Part IV of the *British Meteorological and Magnetic Year Book* for the period 1908 to 1921. Further publication was resumed eventually after a long interruption because of the 1939-45 war but in an abridged form as outlined in the next paragraph.

The General Introduction to the Meteorological Tables and the parts of the Sectional Introductions which dealt with site, instruments, procedure and tabulations included in the volume for 1938 served as the standards of reference up to 1956; only important departures from these standards were mentioned explicitly in subsequent Year Books. The space devoted to the discussion of observations was reduced and the monthly tables of individual hourly values of meteorological elements were discontinued, but summaries of the daily mean values (or totals), monthly means (or totals) of the hourly values and some maximum and minimum values were given. The diary of cloud, weather and visibility, and, after 1939, the aero-logical and seismological tables were also discontinued, but no major changes were made in the tables of atmospheric electricity and geomagnetism.

Another major review of the contents of the *Observatories' Year Book* was then carried out and a number of important changes made, commencing with the volume for 1957. The meteorological data for Kew and Eskdalemuir were omitted; a punched card system of recording such data centrally, at the Meteorological Office, Bracknell, has been adopted. It was also decided to omit all mention of the seismological work at Kew. Full details of the seismo-logical measurements are given in the *Meteorological Office Seismological Bulletin*, distribution of which was resumed in 1947 after a break of seven years, and are also communicated to the *International Seismological Summary*. There were also some changes in the geomagnetism and atmospheric electricity tables; further changes in these tables were introduced in the 1964 volume. Full details of all the tables are given in the Introduction to the *Observatories' Year Book* 1965.

It may be of assistance to those who make use of the data in this volume to know the full range of the other work now carried out at the three observatories and this is detailed below. Requests for information about this other work should be addressed, unless otherwise stated below, to the Director-General, Meteorological Office, London Road, Bracknell, Berkshire, England.

Lerwick Observatory

Full hourly synoptic observations of the weather. Continuous recording and hourly tabulations of pressure, wind, rainfall, sunshine, temperature, humidity, total and diffuse solar radiation on a horizontal surface, daylight illumination on a horizontal surface and of radiation balance. Daily measurements of smoke pollution in the air. Observations, when applicable, of noctilucent cloud.

Routine radiosonde and radar-wind upper air measurements (twice and four times daily respectively). Daily measurements (up to 18 December) of the total amount of ozone. Chemical sampling of the air and rain-water. Sampling for radioactivity of particulate matter in the air near the surface and sampling for radioactivity of rain-water.

There is a Radio and Space Research Station Unit, attached to Lerwick Observatory, which makes some measurements in connexion with its work on radio wave propagation, as well as solar proton measurements, using a neutron monitor, and magnetic micropulsation measurements, using a fluxgate magnetometer. Requests for information about this work should be addressed to the Director, Radio and Space Research Station, Ditton Park, Slough, Buckinghamshire, England.

PREFACE (contd)***Eskdalemuir Observatory***

Full hourly synoptic observations of the weather and, when applicable, of aurora and noctilucent cloud. Continuous recording and hourly tabulations of pressure, wind, rainfall, sunshine, temperature, humidity, total and diffuse solar radiation on a horizontal surface, daylight illumination on a horizontal surface and radiation balance. Daily measurements of evaporation, smoke pollution in the air, and soil temperatures (at depths of 30 and 122 cm). Chemical sampling of the air and rain-water. Sampling for radioactivity of particulate matter in the air near the surface and sampling for radioactivity of rain-water. Records from a set of the American world wide standard seismographs - 3 components on both short and long period instruments.

Kew Observatory

Three-hourly synoptic observations of the weather, 06-21 GMT. Continuous recording and hourly tabulations of pressure, wind, rainfall, sunshine, temperature, humidity, total and diffuse radiation on a horizontal surface, solar radiation at normal incidence, total and diffuse daylight illumination on a horizontal surface and radiation balance. Continuous recording and three-hourly tabulations (00-21 GMT) of soil temperatures at surface and depths of 5, 10, 20 and 30 cm together with daily measurements at depths of 50, 100 and 122 cm. Daily measurements of evaporation. Daily and hourly tabulations of smoke, and daily tabulations of sulphur dioxide concentrations in the air. Records from a short period vertical seismograph. From May daily measurements of the average ionisation due to β and γ rays from the earth's surface.

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INTRODUCTION

A full Introduction was given in the *Observatories' Year Book 1965* and reference should be made to that Introduction and to the 15 Figures published in that *Year Book*. Only two changes are required to bring this material up-to-date for 1966 and reference is made below to the pages of the *Observatories' Year Book 1965*.

Page 19. In the second paragraph, second line for "sulphur" read "polytetrafluoroethylene".

Page 23. Substitute for the present third paragraph "During 1965 metre." the following:

"During 1966 the highest measurement of pollution at Kew was 584 microgrammes per cubic metre, this value occurring between 22 and 23 hours GMT on 14 December. For the second successive year since continuous recording began (1 January 1921) the maximum hourly value was below 1,000 microgrammes per cubic metre. The continued fall in smoke pollution values reflects the gradual extension of clean air zones over London."

LERWICK

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | JANUARY 1966 | | |
|---------------|------|-----|---------------------------|-----|-----|-----|-----|-----|-----|------|-------|---------------------------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|---------------------|--------------|
| | Hour | GMT | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | Mean | Sum 15,000γ+ | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000γ+ |
| 1 q | 664 | 664 | 665 | 667 | 670 | 672 | 677 | 676 | 670 | 668 | 669 | 669 | 669 | 670 | 672 | 671 | 672 | 671 | 670 | 670 | 671 | 672 | 672 | 671 | 670 | 1082 |
| 2 | 669 | 664 | 667 | 676 | 682 | 681 | 677 | 676 | 671 | 671 | 672 | 675 | 676 | 673 | 669 | 666 | 664 | 670 | 672 | 671 | 662 | 677 | 668 | 665 | 671 | 1114 |
| 3 | 665 | 674 | 660 | 667 | 667 | 671 | 670 | 670 | 670 | 668 | 669 | 669 | 669 | 669 | 670 | 669 | 664 | 663 | 657 | 667 | 663 | 666 | 666 | 664 | 667 | 1007 |
| 4 | 665 | 664 | 665 | 665 | 669 | 672 | 672 | 675 | 672 | 668 | 668 | 674 | 673 | 676 | 676 | 677 | 680 | 670 | 667 | 671 | 678 | 644 | 657 | 660 | 669 | 1067 |
| 5 | 658 | 659 | 658 | 661 | 664 | 665 | 665 | 664 | 663 | 662 | 658 | 656 | 659 | 662 | 665 | 666 | 668 | 667 | 666 | 665 | 663 | 662 | 661 | 663 | 902 | |
| 6 | 663 | 661 | 661 | 663 | 664 | 667 | 668 | 668 | 668 | 666 | 663 | 664 | 666 | 668 | 668 | 671 | 672 | 672 | 671 | 668 | 666 | 667 | 658 | 666 | 991 | |
| 7 | 662 | 662 | 662 | 660 | 665 | 671 | 670 | 668 | 669 | 668 | 666 | 661 | 662 | 666 | 669 | 675 | 674 | 674 | 667 | 655 | 651 | 660 | 660 | 666 | 974 | |
| 8 | 658 | 652 | 653 | 652 | 660 | 666 | 670 | 672 | 667 | 667 | 665 | 664 | 667 | 666 | 659 | 662 | 668 | 667 | 666 | 663 | 662 | 663 | 663 | 663 | 923 | |
| 9 | 681 | 664 | 661 | 663 | 664 | 668 | 669 | 669 | 668 | 667 | 662 | 659 | 661 | 668 | 670 | 665 | 651 | 658 | 666 | 658 | 681 | 657 | 654 | 665 | 954 | |
| 10 | 662 | 658 | 661 | 660 | 664 | 667 | 669 | 664 | 661 | 664 | 666 | 662 | 664 | 667 | 669 | 667 | 655 | 658 | 661 | 667 | 660 | 664 | 663 | 663 | 919 | |
| 11 | 671 | 665 | 660 | 662 | 666 | 667 | 667 | 666 | 665 | 662 | 663 | 667 | 671 | 673 | 670 | 669 | 671 | 672 | 671 | 669 | 669 | 666 | 669 | 667 | 1013 | |
| 12 q | 664 | 665 | 662 | 662 | 664 | 668 | 669 | 667 | 666 | 662 | 661 | 663 | 664 | 669 | 669 | 670 | 670 | 671 | 673 | 672 | 670 | 667 | 667 | 667 | 1008 | |
| 13 q | 667 | 666 | 667 | 669 | 670 | 671 | 673 | 675 | 673 | 671 | 666 | 664 | 668 | 671 | 671 | 671 | 673 | 673 | 669 | 668 | 670 | 668 | 670 | 670 | 1069 | |
| 14 | 667 | 670 | 667 | 667 | 669 | 670 | 671 | 673 | 675 | 672 | 669 | 669 | 673 | 676 | 678 | 669 | 665 | 666 | 667 | 668 | 668 | 662 | 668 | 670 | 1073 | |
| 15 | 657 | 662 | 662 | 663 | 667 | 670 | 673 | 673 | 672 | 669 | 665 | 664 | 666 | 667 | 667 | 666 | 671 | 673 | 672 | 670 | 666 | 667 | 667 | 667 | 1017 | |
| 16 q | 668 | 668 | 669 | 670 | 671 | 672 | 672 | 671 | 668 | 665 | 667 | 668 | 669 | 667 | 667 | 667 | 669 | 670 | 671 | 670 | 670 | 670 | 669 | 669 | 1057 | |
| 17 | 668 | 667 | 665 | 665 | 670 | 673 | 675 | 674 | 670 | 666 | 663 | 663 | 662 | 663 | 665 | 667 | 671 | 675 | 675 | 675 | 675 | 674 | 674 | 670 | 1075 | |
| 18 | 674 | 676 | 676 | 676 | 679 | 680 | 679 | 679 | 677 | 680 | 681 | 681 | 681 | 677 | 673 | 668 | 652 | 646 | 646 | 641 | 655 | 664 | 666 | 668 | 671 | 1104 |
| 19 | 667 | 664 | 665 | 666 | 668 | 673 | 675 | 673 | 669 | 661 | 659 | 662 | 665 | 667 | 668 | 668 | 670 | 671 | 672 | 674 | 674 | 675 | 669 | 650 | 1050 | |
| 20 d | 673 | 671 | 678 | 676 | 671 | 681 | 683 | 672 | 675 | 669 | 661 | 662 | 664 | 668 | 659 | 659 | 661 | 648 | 651 | 655 | 652 | 655 | 663 | 659 | 665 | |
| 21 d | 672 | 645 | 652 | 656 | 659 | 663 | 665 | 668 | 672 | 667 | 667 | 668 | 658 | 656 | 641 | 655 | 661 | 656 | 657 | 650 | 652 | 657 | 668 | 652 | 817 | |
| 22 d | 651 | 649 | 654 | 656 | 660 | 668 | 663 | 684 | 677 | 670 | 658 | 646 | 657 | 657 | 643 | 657 | 650 | 646 | 655 | 657 | 671 | 683 | 639 | 647 | 798 | |
| 23 d | 638 | 638 | 641 | 660 | 666 | 669 | 659 | 659 | 664 | 644 | 649 | 647 | 639 | 645 | 656 | 662 | 664 | 657 | 650 | 656 | 657 | 662 | 668 | 655 | 709 | |
| 24 d | 663 | 660 | 660 | 664 | 669 | 665 | 671 | 671 | 665 | 645 | 645 | 653 | 663 | 669 | 666 | 639 | 644 | 655 | 659 | 660 | 659 | 659 | 659 | 659 | 814 | |
| 25 | 658 | 660 | 664 | 666 | 665 | 669 | 668 | 661 | 660 | 663 | 662 | 664 | 664 | 655 | 650 | 646 | 655 | 657 | 653 | 664 | 666 | 666 | 667 | 661 | 871 | |
| 26 | 664 | 664 | 666 | 668 | 667 | 669 | 665 | 667 | 661 | 654 | 654 | 658 | 644 | 652 | 663 | 666 | 666 | 662 | 651 | 655 | 660 | 668 | 671 | 661 | 870 | |
| 27 | 663 | 660 | 658 | 655 | 659 | 665 | 670 | 666 | 665 | 661 | 657 | 656 | 655 | 657 | 663 | 663 | 664 | 665 | 666 | 667 | 666 | 666 | 665 | 662 | 895 | |
| 28 | 665 | 664 | 665 | 665 | 666 | 668 | 669 | 669 | 668 | 666 | 666 | 668 | 659 | 664 | 666 | 671 | 677 | 676 | 676 | 680 | 683 | 674 | 669 | 669 | 1055 | |
| 29 | 670 | 671 | 670 | 674 | 674 | 671 | 672 | 673 | 672 | 667 | 660 | 657 | 656 | 658 | 657 | 661 | 660 | 658 | 662 | 666 | 668 | 667 | 665 | 665 | 972 | |
| 30 | 668 | 667 | 668 | 668 | 669 | 669 | 670 | 670 | 669 | 668 | 668 | 668 | 667 | 667 | 651 | 652 | 660 | 667 | 669 | 666 | 665 | 665 | 665 | 665 | 958 | |
| 31 q | 665 | 665 | 665 | 666 | 666 | 666 | 663 | 662 | 661 | 662 | 663 | 663 | 666 | 667 | 667 | 666 | 666 | 670 | 671 | 668 | 666 | 666 | 666 | 666 | 973 | |
| Mean | 665 | 663 | 663 | 665 | 665 | 667 | 670 | 670 | 670 | 669 | 666 | 663 | 663 | 663 | 665 | 665 | 665 | 664 | 666 | 665 | 666 | 665 | 665 | 665 | 665 | |
| Sum 500.0' + | 600 | 539 | 547 | 608 | 677 | 765 | 783 | 770 | 733 | 642 | 561 | 542 | 553 | 611 | 607 | 619 | 598 | 591 | 610 | 612 | 643 | 654 | 622 | 601 | Grand Total 495,097 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | 9° + | | | | | | | | | | | | JANUARY 1966 | | |
|---------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|------|--------------|
| | Hour | GMT | 9° + | | | | | | | | | | | Mean | Sum 400.0' + | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 400.0' + |
| 1 q | 19.9 | 20.1 | 20.2 | 19.6 | 19.7 | 20.6 | 19.6 | 19.7 | 19.8 | 20.2 | 20.6 | 21.3 | 23.3 | 21.6 | 21.4 | 20.4 | 20.2 | 20.2 | 19.9 | 19.7 | 20.0 | 19.6 | 19.6 | 19.9 | 20.2 | 85.7 |
| 2 | 20.3 | 20.2 | 26.0 | 19.3 | 18.2 | 19.3 | 19.4 | 19.6 | 20.0 | 20.6 | 21.5 | 22.3 | 24.2 | 23.7 | 23.2 | 23.0 | 20.2 | 19.7 | 20.2 | 20.8 | 13.0 | 15.0 | 19.1 | 18.5 | 20.3 | 87.6 |
| 3 | 19.0 | 21.5 | 18.0 | 18.5 | 17.9 | 18.7 | 20.1 | 19.9 | 20.5 | 21.1 | 21.6 | 22.4 | 22.4 | 23.0 | 22.1 | 21.5 | 21.1 | 21.8 | 19.6 | 19.6 | 18.4 | 17.8 | 19.0 | 19.0 | 20.1 | 81.9 |
| 4 | 19.2 | 19.8 | 19.7 | 20.7 | 20.5 | 19.3 | 20.0 | 20.1 | 20.4 | 21.1 | 21.6 | 21.9 | 22.1 | 22.4 | 23.0 | 23.3 | 23.0 | 24.6 | 23.0 | 24.3 | 4.3 | 14.3 | 16.3 | 18.3 | 20.3 | 87.2 |
| 5 | 17.2 | 18.4 | 18.4 | 19.0 | 19.2 | 19.4 | 19.2 | 18.7 | 18.7 | 19.6 | 19.6 | 20.1 | 20.3 | 20.3 | 20.1 | 19.8 | 19.4 | 19.2 | 19.0 | 18.8 | 17.3 | 18.1 | 18.9 | 18.9 | 18.4 | 54.4 |
| 6 | 19.9 | 18.8 | 19.0 | 18.7 | 18.7 | 18.8 | 18.9 | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

5

3 LERWICK (Z)

| | 47,000 (0.47 CGS unit) * | | | | | | | | | | | | JANUARY | 1966 | | | | | | | | | | | | |
|--------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|--------------|
| | Hour GMT | | | | | | | | | | | | Sum 90000. * | | | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 90000. * |
| 1 q | 418 | 417 | 416 | 416 | 415 | 413 | 412 | 413 | 415 | 416 | 417 | 417 | 415 | 416 | 416 | 416 | 416 | 418 | 419 | 418 | 418 | 418 | 418 | 418 | 416 | 989 |
| 2 | 416 | 416 | 400 | 402 | 405 | 407 | 408 | 410 | 413 | 412 | 413 | 412 | 412 | 415 | 416 | 419 | 421 | 420 | 418 | 420 | 429 | 417 | 418 | 420 | 414 | 939 |
| 3 | 420 | 400 | 407 | 407 | 410 | 409 | 410 | 411 | 413 | 414 | 416 | 418 | 416 | 416 | 418 | 419 | 420 | 422 | 428 | 423 | 426 | 427 | 429 | 427 | 417 | 1006 |
| 4 | 424 | 421 | 419 | 416 | 412 | 411 | 411 | 410 | 411 | 412 | 413 | 413 | 415 | 414 | 416 | 416 | 415 | 422 | 429 | 450 | 451 | 424 | 429 | 422 | 420 | 1085 |
| 5 | 408 | 408 | 420 | 420 | 419 | 417 | 417 | 416 | 416 | 416 | 417 | 419 | 423 | 424 | 423 | 422 | 420 | 418 | 417 | 417 | 417 | 418 | 418 | 418 | 418 | 1027 |
| 6 | 416 | 417 | 419 | 419 | 418 | 416 | 414 | 414 | 413 | 413 | 415 | 415 | 417 | 417 | 418 | 418 | 420 | 418 | 417 | 416 | 416 | 419 | 418 | 423 | 417 | 1001 |
| 7 | 419 | 419 | 419 | 420 | 415 | 412 | 412 | 412 | 411 | 411 | 415 | 416 | 417 | 417 | 419 | 420 | 419 | 419 | 424 | 444 | 436 | 433 | 420 | 1083 | | |
| 8 | 417 | 425 | 427 | 430 | 423 | 418 | 414 | 411 | 412 | 409 | 411 | 413 | 414 | 416 | 421 | 427 | 425 | 426 | 424 | 425 | 429 | 430 | 429 | 421 | 1103 | |
| 9 | 415 | 417 | 419 | 418 | 419 | 419 | 418 | 416 | 415 | 412 | 411 | 410 | 412 | 413 | 418 | 422 | 426 | 439 | 444 | 435 | 438 | 418 | 392 | 414 | 419 | 1060 |
| 10 | 420 | 424 | 423 | 421 | 415 | 420 | 420 | 421 | 422 | 420 | 418 | 417 | 416 | 416 | 417 | 420 | 423 | 430 | 432 | 429 | 426 | 422 | 418 | 422 | 1120 | |
| 11 | 406 | 404 | 413 | 417 | 420 | 420 | 419 | 419 | 419 | 416 | 416 | 414 | 412 | 413 | 415 | 419 | 421 | 421 | 421 | 421 | 420 | 418 | 414 | 417 | 999 | |
| 12 q | 414 | 412 | 411 | 414 | 416 | 417 | 418 | 419 | 419 | 417 | 415 | 415 | 413 | 412 | 414 | 416 | 418 | 419 | 419 | 419 | 419 | 419 | 417 | 416 | 990 | |
| 13 q | 415 | 413 | 410 | 410 | 411 | 414 | 415 | 415 | 415 | 415 | 415 | 412 | 412 | 411 | 413 | 415 | 416 | 417 | 418 | 419 | 422 | 420 | 419 | 415 | 964 | |
| 14 | 417 | 414 | 412 | 413 | 412 | 413 | 413 | 413 | 413 | 413 | 413 | 410 | 409 | 410 | 415 | 418 | 419 | 420 | 421 | 422 | 423 | 415 | 415 | 959 | | |
| 15 | 415 | 410 | 409 | 409 | 408 | 408 | 410 | 413 | 415 | 415 | 417 | 416 | 415 | 418 | 422 | 415 | 415 | 417 | 421 | 421 | 419 | 415 | 415 | 959 | | |
| 16 q | 417 | 416 | 414 | 413 | 412 | 412 | 412 | 413 | 415 | 416 | 416 | 415 | 415 | 414 | 414 | 414 | 415 | 415 | 416 | 416 | 416 | 417 | 415 | 450 | | |
| 17 | 417 | 416 | 415 | 414 | 411 | 411 | 410 | 411 | 414 | 415 | 415 | 413 | 415 | 415 | 417 | 416 | 414 | 413 | 412 | 413 | 413 | 414 | 414 | 428 | | |
| 18 | 415 | 413 | 412 | 411 | 411 | 409 | 409 | 409 | 406 | 406 | 406 | 405 | 406 | 409 | 413 | 416 | 419 | 431 | 446 | 470 | 449 | 431 | 424 | 420 | 1049 | |
| 19 | 418 | 419 | 418 | 418 | 417 | 414 | 412 | 413 | 411 | 412 | 413 | 414 | 415 | 417 | 420 | 421 | 421 | 418 | 417 | 415 | 415 | 414 | 414 | 416 | 980 | |
| 20 d | 415 | 416 | 411 | 409 | 411 | 407 | 406 | 406 | 409 | 409 | 409 | 409 | 409 | 419 | 436 | 440 | 450 | 493 | 473 | 472 | 465 | 432 | 421 | 417 | 427 | 1243 |
| 21 d | 389 | 393 | 395 | 402 | 403 | 401 | 408 | 411 | 412 | 407 | 409 | 408 | 415 | 424 | 452 | 458 | 443 | 467 | 465 | 450 | 433 | 427 | 413 | 392 | 420 | 1077 |
| 22 d | 410 | 411 | 420 | 425 | 425 | 420 | 410 | 392 | 400 | 406 | 413 | 419 | 420 | 424 | 400 | 452 | 450 | 453 | 441 | 441 | 426 | 395 | 391 | 389 | 422 | 1123 |
| 23 d | 387 | 386 | 376 | 403 | 411 | 410 | 413 | 416 | 414 | 414 | 420 | 422 | 423 | 433 | 438 | 446 | 446 | 438 | 430 | 429 | 428 | 419 | 411 | 418 | 1032 | |
| 24 d | 411 | 411 | 416 | 419 | 416 | 416 | 411 | 415 | 415 | 424 | 422 | 418 | 415 | 418 | 425 | 433 | 451 | 459 | 436 | 428 | 430 | 426 | 419 | 418 | 423 | 1153 |
| 25 | 415 | 417 | 411 | 412 | 417 | 415 | 415 | 419 | 419 | 417 | 417 | 419 | 424 | 433 | 445 | 448 | 429 | 434 | 441 | 430 | 424 | 419 | 415 | 423 | 1154 | |
| 31 q | 420 | 419 | 418 | 417 | 417 | 417 | 418 | 419 | 419 | 419 | 421 | 422 | 420 | 420 | 420 | 420 | 419 | 418 | 418 | 420 | 422 | 422 | 420 | 419 | 1064 | |
| Mean | 414 | 413 | 413 | 415 | 415 | 414 | 413 | 414 | 414 | 415 | 415 | 415 | 416 | 417 | 423 | 425 | 426 | 429 | 428 | 427 | 422 | 418 | 416 | 419 | 419 | |
| Sum 12,000y+ | 831 | 814 | 810 | 857 | 851 | 831 | 819 | 825 | 843 | 848 | 871 | 875 | 885 | 934 | 1114 | 1173 | 1203 | 1283 | 1260 | 1296 | 1249 | 1081 | 971 | 905 | Grand Total 311,429 | |

GEOMAGNETIC CHARACTER FIGURES (K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

4 LERWICK

| | 3-h range indices | Sum of K indices | 3-h range indices | Sum of K _H indices | 3-h range indices | Sum of K _D indices | 3-h range indices | Sum of K _D indices | 3-h range indices | Sum of K _Z indices | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph house, °C | JANUARY 1966 |
|------|-------------------|------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|---------------------------------------|---------------------------------------|--------------|
| 1 q | 0100 0010 | 2 | 0000 0000 | 0 | 0100 0010 | 2 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 11·8 | |
| 2 | 3101 1133 | 13 | 1101 1122 | 9 | 3101 1133 | 13 | 2100 0011 | 5 | 1 | 1 | 1 | 13·0 | | |
| 3 | 3100 1111 | 8 | 2000 1111 | 6 | 3100 1011 | 7 | 2000 0000 | 3 | 1 | 1 | 1 | 13·6 | | |
| 4 | 0111 0253 | 13 | 0111 0243 | 12 | 0110 0152 | 10 | 0000 0142 | 7 | 1 | 1 | 1 | 8·6 | | |
| 5 | 1000 0002 | 3 | 1000 0001 | 2 | 1000 0002 | 3 | 2000 0000 | 2 | 1 | 1 | 1 | 6·8 | | |
| 6 | 1000 0002 | 3 | 0000 0002 | 2 | 1000 0002 | 3 | 0000 0001 | 1 | 0 | 0 | 0 | 7·3 | | |
| 7 | 1100 0123 | 8 | 0100 0123 | 7 | 1100 0113 | 7 | 0000 0022 | 4 | 1 | 1 | 1 | 9·5 | | |
| 8 | 3111 1111 | 10 | 1110 1101 | 6 | 3111 1111 | 10 | 1100 0000 | 2 | 1 | 1 | 1 | 9·2 | | |
| 9 | 3000 0224 | 11 | 3000 0224 | 11 | 3000 0124 | 10 | 1000 0213 | 7 | 1 | 1 | 1 | 13·5 | | |
| 10 | 1211 1132 | 12 | 1111 1022 | 9 | 1211 1031 | 10 | 0100 0011 | 3 | 1 | 1 | 1 | 14·6 | | |
| 11 | 1000 0101 | 3 | 1000 0101 | 3 | 1000 0001 | 2 | 1000 0000 | 1 | 0 | 0 | 0 | 15·0 | | |
| 12 q | 1000 0000 | 1 | 1000 0000 | 1 | 1000 0000 | 1 | 0000 0000 | 0 | 0 | 0 | 0 | 14·1 | | |
| 13 q | 1000 0010 | 2 | 0000 0000 | 0 | 1000 0010 | 2 | 0000 0000 | 0 | 0 | 0 | 0 | 14·2 | | |
| 14 | 0000 0102 | 3 | 0000 0102 | 2 | 0000 0002 | 2 | 0000 0001 | 1 | 0 | 0 | 0 | 14·3 | | |
| 15 | 2100 1101 | 6 | 1100 1100 | 4 | 2100 1101 | 6 | 0000 0100 | 1 | 1 | 1 | 1 | 14·2 | | |
| 16 q | 0000 0000 | 0 | 0000 0000 | 0 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 0 | 0 | 13·9 | | |
| 17 | 0100 0000 | 1 | 0100 0000 | 1 | 0100 0000 | 1 | 0000 0000 | 0 | 0 | 0 | 0 | 14·0 | | |
| 18 | 0000 1221 | 6 | 0000 1221 | 6 | 0000 1220 | 5 | 0000 0121 | 4 | 1 | 1 | 1 | 14·2 | | |
| 19 | 0001 1100 | 3 | 0001 1100 | 3 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 0 | 0 | 14·0 | | |
| 20 d | 1121 2342 | 16 | 1121 2222 | 13 | 0111 2342 | 14 | 0000 0232 | 10 | 1 | 1 | 1 | 13·7 | | |
| 21 d | 3122 3353 | 22 | 3112 3233 | 18 | 2122 3353 | 21 | 2010 3333 | 15 | 2 | 2 | 2 | 13·7 | | |
| 22 d | 3232 4344 | 25 | 2222 3334 | 21 | 3232 4243 | 23 | 2021 4321 | 15 | 2 | 2 | 2 | 13·0 | | |
| 23 d | 3112 1232 | 15 | 2112 1122 | 12 | 3112 1232 | 15 | 2200 2211 | 10 | 1 | 1 | 1 | 12·6 | | |
| 24 d | 2211 2322 | 15 | 1111 2222 | 13 | 2211 1322 | 14 | 0001 0321 | 7 | 1 | 1 | 1 | 12·9 | | |
| 25 | 2111 2321 | 13 | 1111 2321 | 12 | 2111 1321 | 13 | 1100 1211 | 7 | 1 | 1 | 1 | 14·1 | | |
| 26 | 0112 2333 | 15 | 0011 2333 | 13 | 0112 1333 | 14 | 0000 1223 | 8 | 1 | 1 | 1 | 13·0 | | |
| 27 | 2110 0000 | 4 | 1110 0000 | 3 | 2100 0000 | 3 | 0000 0000 | 0 | 1 | 1 | 1 | 13·3 | | |
| 28 | 0001 1113 | 7 | 0001 1113 | 7 | 0000 0011 | 2 | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | | FEBRUARY 1966 | | | |
|-----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------------------------|-----------------|---|---|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 15,000γ+ | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | | | |
| 1 q | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 1 q | 670 | 674 | 674 | 669 | 670 | 673 | 677 | 677 | 673 | 674 | 671 | 665 | 662 | 666 | 670 | 673 | 673 | 673 | 673 | 672 | 671 | 672 | 672 | 674 | 672 | 672 | 1117 | | |
| 2 | 675 | 672 | 674 | 675 | 675 | 675 | 676 | 676 | 675 | 673 | 673 | 675 | 673 | 669 | 668 | 670 | 670 | 672 | 668 | 672 | 672 | 673 | 677 | 675 | 673 | 673 | 1153 | | |
| 3 | 672 | 672 | 673 | 673 | 675 | 673 | 670 | 671 | 675 | 676 | 673 | 666 | 664 | 663 | 649 | 663 | 672 | 673 | 661 | 669 | 662 | 671 | 659 | 660 | 668 | 668 | 1035 | | |
| 4 | 665 | 669 | 664 | 670 | 670 | 671 | 677 | 672 | 661 | 657 | 657 | 655 | 659 | 658 | 660 | 658 | 671 | 672 | 668 | 668 | 669 | 658 | 655 | 665 | 665 | 967 | | | |
| 5 d | 662 | 654 | 665 | 661 | 654 | 657 | 673 | 671 | 669 | 654 | 648 | 655 | 647 | 660 | 669 | 672 | 662 | 663 | 665 | 675 | 664 | 663 | 659 | 662 | 662 | 887 | | | |
| 6 | 660 | 660 | 661 | 659 | 664 | 664 | 660 | 658 | 665 | 661 | 655 | 654 | 652 | 657 | 662 | 667 | 669 | 668 | 670 | 671 | 674 | 668 | 661 | 663 | 663 | 909 | | | |
| 7 | 657 | 666 | 661 | 662 | 664 | 664 | 667 | 669 | 671 | 672 | 667 | 666 | 665 | 665 | 668 | 671 | 671 | 669 | 670 | 671 | 671 | 667 | 666 | 668 | 667 | 1008 | | | |
| 8 | 668 | 668 | 668 | 665 | 667 | 668 | 668 | 669 | 671 | 671 | 668 | 667 | 665 | 667 | 660 | 661 | 659 | 662 | 669 | 669 | 667 | 667 | 669 | 669 | 667 | 1004 | | | |
| 9 q | 667 | 665 | 665 | 666 | 671 | 670 | 671 | 670 | 668 | 666 | 666 | 667 | 666 | 671 | 675 | 674 | 672 | 672 | 676 | 675 | 673 | 668 | 668 | 670 | 670 | 1079 | | | |
| 10 | 666 | 673 | 668 | 669 | 672 | 672 | 672 | 673 | 668 | 670 | 665 | 668 | 669 | 672 | 680 | 680 | 682 | 675 | 671 | 662 | 666 | 672 | 665 | 665 | 671 | 1095 | | | |
| 11 | 658 | 658 | 660 | 667 | 672 | 672 | 675 | 675 | 668 | 665 | 661 | 660 | 660 | 669 | 664 | 668 | 675 | 673 | 671 | 672 | 671 | 661 | 647 | 663 | 667 | 1000 | | | |
| 12 | 654 | 655 | 661 | 661 | 666 | 671 | 669 | 666 | 661 | 658 | 653 | 655 | 655 | 660 | 665 | 668 | 669 | 670 | 671 | 672 | 670 | 669 | 666 | 664 | 664 | 936 | | | |
| 13 | 665 | 664 | 660 | 665 | 667 | 669 | 672 | 675 | 672 | 665 | 662 | 659 | 661 | 667 | 670 | 670 | 666 | 665 | 672 | 671 | 667 | 669 | 671 | 669 | 667 | 1013 | | | |
| 14 q | 668 | 667 | 667 | 670 | 671 | 671 | 670 | 669 | 667 | 664 | 662 | 664 | 664 | 667 | 672 | 672 | 668 | 661 | 665 | 669 | 670 | 670 | 670 | 668 | 668 | 1027 | | | |
| 15 | 669 | 669 | 671 | 671 | 672 | 673 | 672 | 671 | 669 | 665 | 666 | 670 | 670 | 668 | 666 | 670 | 671 | 675 | 676 | 667 | 665 | 664 | 672 | 670 | 677 | | | | |
| 16 | 672 | 677 | 673 | 668 | 671 | 680 | 675 | 671 | 670 | 661 | 653 | 651 | 651 | 659 | 665 | 668 | 671 | 672 | 672 | 672 | 669 | 670 | 676 | 673 | 668 | 1040 | | | |
| 17 | 673 | 673 | 672 | 673 | 675 | 679 | 681 | 679 | 676 | 670 | 668 | 668 | 667 | 659 | 666 | 669 | 668 | 666 | 674 | 666 | 670 | 675 | 672 | 672 | 672 | 1120 | | | |
| 18 | 671 | 668 | 669 | 672 | 676 | 678 | 679 | 677 | 676 | 668 | 661 | 659 | 659 | 664 | 669 | 668 | 670 | 671 | 674 | 676 | 675 | 676 | 675 | 671 | 671 | 1107 | | | |
| 19 d | 677 | 674 | 672 | 675 | 678 | 680 | 676 | 676 | 682 | 675 | 661 | 660 | 661 | 662 | 667 | 671 | 671 | 699 | 684 | 677 | 701 | 680 | 645 | 647 | 652 | 672 | | | |
| 20 d | 659 | 657 | 661 | 659 | 662 | 658 | 656 | 671 | 665 | 638 | 635 | 633 | 638 | 650 | 664 | 664 | 666 | 666 | 663 | 665 | 667 | 666 | 666 | 657 | 675 | | | | |
| 21 | 665 | 662 | 662 | 663 | 663 | 664 | 665 | 665 | 661 | 655 | 655 | 655 | 655 | 659 | 663 | 665 | 664 | 667 | 668 | 668 | 668 | 670 | 668 | 663 | 663 | 918 | | | |
| 22 | 671 | 669 | 671 | 672 | 673 | 673 | 673 | 672 | 665 | 666 | 662 | 661 | 661 | 648 | 655 | 671 | 668 | 660 | 667 | 642 | 636 | 627 | 669 | 662 | 662 | 880 | | | |
| 23 d | 665 | 666 | 667 | 662 | 614 | 651 | 660 | 622 | 628 | 617 | 638 | 650 | 655 | 654 | 666 | 657 | 661 | 666 | 679 | 647 | 649 | 660 | 653 | 661 | 661 | 875 | | | |
| 24 d | 658 | 660 | 657 | 663 | 677 | 662 | 662 | 654 | 667 | 658 | 649 | 645 | 641 | 654 | 661 | 663 | 666 | 661 | 670 | 687 | 667 | 665 | 666 | 662 | 661 | 875 | | | |
| 25 | 664 | 658 | 666 | 670 | 653 | 669 | 670 | 672 | 670 | 665 | 658 | 654 | 652 | 653 | 664 | 670 | 671 | 665 | 670 | 672 | 674 | 681 | 667 | 666 | 666 | 980 | | | |
| 26 q | 669 | 667 | 667 | 669 | 670 | 671 | 671 | 668 | 664 | 661 | 659 | 657 | 661 | 662 | 664 | 666 | 667 | 669 | 671 | 668 | 671 | 671 | 670 | 667 | 667 | 1004 | | | |
| 27 | 670 | 669 | 669 | 670 | 672 | 669 | 673 | 672 | 668 | 661 | 654 | 656 | 658 | 659 | 664 | 667 | 670 | 672 | 673 | 674 | 673 | 673 | 672 | 668 | 672 | 1027 | | | |
| 28 q | 673 | 671 | 672 | 672 | 674 | 674 | 674 | 673 | 669 | 664 | 661 | 658 | 658 | 664 | 669 | 671 | 673 | 674 | 674 | 676 | 675 | 676 | 676 | 671 | 671 | 1096 | | | |
| Mean | 667 | 666 | 667 | 667 | 667 | 670 | 671 | 669 | 669 | 663 | 660 | 659 | 659 | 661 | 665 | 668 | 670 | 669 | 670 | 671 | 670 | 667 | 665 | 667 | 667 | | | | |
| Sum 18,000γ+ | 663 | 657 | 670 | 691 | 688 | 751 | 784 | 741 | 717 | 563 | 474 | 457 | 441 | 521 | 612 | 702 | 756 | 741 | 748 | 789 | 762 | 671 | 634 | 679 | | Grand Total 447,912 | | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | FEBRUARY 1966 | | |
|---------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------|----------------|---|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 400·0°+ | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | | |
| 1 q | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' |
| 2 | 18·8 | 19·7 | 18·6 | 17·3 | 17·9 | 18·7 | 19·3 | 19·7 | 19·6 | 19·6 | 20·6 | 22·0 | 22·6 | 21·9 | 21·2 | 21·0 | 20·6 | 20·3 | 20·0 | 19·7 | 18·8 | 18·4 | 18·9 | 19·8 | 19·8 | 74·5 | | |
| 3 | 19·2 | 19·5 | 19·6 | 19·8 | 19·8 | 19·2 | 19·1 | 19·1 | 19·2 | 20·0 | 20·4 | 20·8 | 22·1 | 23·3 | 22·7 | 21·5 | 21·6 | 21·0 | 18·9 | 20·2 | 20·0 | 19·1 | 18·8 | 18·5 | 20·1 | 83·4 | | |
| 4 | 19·2 | 19·3 | 19·5 | 19·6 | 19·9 | 19·1 | 19·1 | 21·1 | 21·4 | 20·3 | 20·5 | 20·9 | 21·7 | 23·8 | 23·7 | 22·0 | 21·0 | 21·9 | 17·9 | 14·8 | 12·2 | 9·6 | 15·2 | 18·0 | 19·2 | 61·7 | | |
| 5 d | 16·1 | 15·3 | 20·2 | 18·0 | 15·9 | 17·4 | 16·3 | 19·1 | 20·3 | 20·1 | 22·6 | 25·4 | 25·3 | 25·0 | 24·4 | 24·3 | 24·1 | 24·0 | 24·7 | 23·3 | 23·2 | 23·0 | 22·7 | 22·7 | 22·7 | 77·8 | | |
| 6 | 16·2 | 14·9 | 18·1 | 20·9 | 19·7 | 16·4 | 16·9 | 17·0 | 18·0 | 19·9 | 20·4 | 20·9 | 23·2 | 22·5 | 22·6 | 21·2 | 19·9 | 20·0 | 20·0 | 16·8 | 16·3 | 15·9 | 15·6 | 15·8 | 18·7 | 49·1 | | |
| 7 | 17·5 | 16·8 | 15· | | | | | | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 3 LERWICK (Z) | 47,000γ (0.47 CGS unit) * | | | | | | | | | | | | | | | | | | | | | | | | FEBRUARY 1966 | | | |
|-----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|---------------|---------------------------|------|-----|
| | Hour GMT 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | Mean | Sum 9000γ+ 11,000γ+ | | |
| | 419 | 414 | 407 | 411 | 412 | 411 | 411 | 412 | 414 | 414 | 415 | 416 | 416 | 418 | 419 | 418 | 419 | 418 | 417 | 417 | 417 | 418 | 419 | 420 | 420 | 420 | 416 | 975 |
| 1 q | 419 | 414 | 407 | 411 | 412 | 411 | 411 | 412 | 414 | 414 | 415 | 416 | 416 | 418 | 419 | 418 | 419 | 418 | 417 | 417 | 417 | 418 | 419 | 420 | 420 | 420 | 416 | 975 |
| 2 | 418 | 418 | 417 | 416 | 415 | 414 | 413 | 413 | 413 | 413 | 413 | 411 | 412 | 418 | 420 | 418 | 419 | 419 | 423 | 421 | 420 | 421 | 419 | 419 | 417 | 417 | 1003 | |
| 3 | 420 | 419 | 418 | 416 | 416 | 415 | 417 | 414 | 412 | 411 | 413 | 415 | 416 | 419 | 430 | 426 | 421 | 420 | 436 | 447 | 456 | 423 | 421 | 425 | 422 | 422 | 1126 | |
| 4 | 424 | 407 | 409 | 413 | 416 | 416 | 413 | 413 | 416 | 411 | 415 | 419 | 422 | 426 | 428 | 435 | 429 | 425 | 424 | 425 | 421 | 401 | 404 | 389 | 417 | 401 | 1001 | |
| 5 d | 385 | 405 | 402 | 413 | 414 | 413 | 401 | 403 | 404 | 408 | 416 | 414 | 422 | 429 | 429 | 436 | 454 | 459 | 463 | 463 | 451 | 435 | 426 | 421 | 424 | 424 | 1166 | |
| 6 | 417 | 416 | 417 | 412 | 398 | 402 | 410 | 415 | 415 | 411 | 410 | 412 | 419 | 428 | 432 | 430 | 430 | 429 | 426 | 424 | 421 | 415 | 413 | 417 | 417 | 417 | 1019 | |
| 7 | 419 | 416 | 420 | 420 | 421 | 419 | 416 | 416 | 413 | 412 | 413 | 415 | 417 | 418 | 424 | 426 | 426 | 424 | 422 | 419 | 420 | 416 | 418 | 419 | 419 | 419 | 1056 | |
| 8 | 417 | 418 | 421 | 422 | 422 | 422 | 420 | 418 | 417 | 416 | 416 | 416 | 412 | 415 | 425 | 431 | 432 | 430 | 430 | 428 | 426 | 423 | 421 | 422 | 422 | 422 | 1136 | |
| 9 q | 419 | 419 | 419 | 416 | 418 | 420 | 421 | 420 | 418 | 417 | 415 | 414 | 414 | 414 | 417 | 421 | 422 | 423 | 423 | 422 | 420 | 421 | 424 | 422 | 419 | 419 | 1066 | |
| 10 | 424 | 421 | 422 | 421 | 419 | 418 | 418 | 418 | 419 | 415 | 416 | 413 | 412 | 412 | 412 | 416 | 421 | 426 | 433 | 448 | 448 | 448 | 433 | 425 | 423 | 423 | 1158 | |
| 11 | 412 | 399 | 397 | 401 | 408 | 413 | 417 | 417 | 416 | 416 | 416 | 415 | 415 | 416 | 430 | 429 | 423 | 424 | 424 | 424 | 424 | 430 | 435 | 403 | 417 | 417 | 1004 | |
| 12 | 390 | 398 | 407 | 413 | 410 | 406 | 413 | 417 | 421 | 418 | 417 | 413 | 412 | 413 | 414 | 417 | 419 | 421 | 421 | 422 | 422 | 422 | 421 | 415 | 415 | 415 | 948 | |
| 13 | 415 | 411 | 408 | 398 | 402 | 409 | 411 | 412 | 413 | 414 | 416 | 416 | 416 | 415 | 413 | 420 | 425 | 427 | 421 | 423 | 425 | 422 | 421 | 421 | 416 | 416 | 974 | |
| 14 q | 420 | 418 | 419 | 416 | 416 | 416 | 416 | 416 | 417 | 418 | 416 | 416 | 418 | 417 | 416 | 418 | 420 | 423 | 421 | 419 | 419 | 420 | 420 | 418 | 418 | 418 | 1037 | |
| 15 | 420 | 419 | 419 | 418 | 416 | 416 | 416 | 418 | 419 | 418 | 418 | 415 | 413 | 416 | 417 | 418 | 419 | 419 | 417 | 418 | 424 | 428 | 424 | 419 | 418 | 418 | 1038 | |
| 16 | 418 | 407 | 407 | 408 | 408 | 407 | 410 | 412 | 415 | 420 | 419 | 418 | 419 | 419 | 422 | 421 | 420 | 418 | 418 | 419 | 421 | 420 | 416 | 414 | 416 | 416 | 976 | |
| 17 | 414 | 417 | 418 | 418 | 417 | 415 | 414 | 413 | 413 | 411 | 410 | 410 | 411 | 418 | 425 | 423 | 422 | 422 | 422 | 424 | 424 | 418 | 416 | 412 | 417 | 417 | 1007 | |
| 18 | 413 | 416 | 417 | 416 | 416 | 414 | 413 | 413 | 412 | 414 | 415 | 415 | 417 | 418 | 418 | 420 | 422 | 422 | 421 | 418 | 417 | 417 | 417 | 418 | 417 | 417 | 1001 | |
| 19 d | 412 | 415 | 419 | 418 | 416 | 416 | 417 | 414 | 412 | 412 | 413 | 410 | 409 | 414 | 423 | 440 | 491 | 547 | 488 | 513 | 483 | 430 | 415 | 378 | 434 | 434 | 1405 | |
| 20 d | 387 | 364 | 373 | 400 | 407 | 406 | 395 | 399 | 406 | 420 | 424 | 426 | 432 | 451 | 450 | 445 | 443 | 439 | 434 | 427 | 428 | 424 | 423 | 423 | 418 | 418 | 1026 | |
| 21 | 424 | 426 | 425 | 425 | 426 | 426 | 424 | 423 | 423 | 420 | 419 | 421 | 421 | 422 | 425 | 429 | 429 | 428 | 426 | 424 | 422 | 422 | 420 | 420 | 424 | 424 | 1172 | |
| 22 | 420 | 423 | 423 | 424 | 424 | 424 | 422 | 420 | 420 | 421 | 417 | 417 | 423 | 433 | 459 | 459 | 470 | 468 | 446 | 446 | 427 | 392 | 359 | 358 | 425 | 425 | 1195 | |
| 23 d | 396 | 401 | 413 | 415 | 355 | 291 | 332 | 380 | 386 | 409 | 421 | 425 | 427 | 433 | 440 | 451 | 462 | 445 | 446 | 444 | 394 | 391 | 381 | 381 | 405 | 405 | 719 | |
| 24 d | 407 | 403 | 410 | 407 | 398 | 410 | 412 | 414 | 422 | 420 | 422 | 427 | 442 | 433 | 431 | 437 | 446 | 448 | 440 | 429 | 408 | 410 | 417 | 405 | 421 | 421 | 1098 | |
| 25 | 390 | 390 | 375 | 394 | 406 | 411 | 412 | 414 | 416 | 412 | 411 | 414 | 422 | 424 | 426 | 431 | 436 | 142 | 435 | 427 | 426 | 422 | 406 | 400 | 414 | 414 | 942 | |
| 26 q | 407 | 413 | 416 | 418 | 418 | 419 | 420 | 420 | 419 | 419 | 415 | 414 | 417 | 419 | 421 | 423 | 425 | 426 | 424 | 424 | 427 | 424 | 421 | 419 | 419 | 419 | 1067 | |
| 27 | 417 | 416 | 417 | 417 | 418 | 420 | 415 | 415 | 415 | 414 | 414 | 416 | 416 | 418 | 423 | 425 | 425 | 424 | 424 | 423 | 422 | 421 | 419 | 419 | 419 | 419 | 1055 | |
| 28 q | 418 | 418 | 417 | 418 | 417 | 418 | 418 | 418 | 419 | 420 | 422 | 420 | 421 | 420 | 419 | 418 | 415 | 417 | 419 | 421 | 421 | 422 | 421 | 420 | 418 | 419 | 1057 | |
| Mean | 412 | 411 | 412 | 414 | 412 | 410 | 411 | 414 | 415 | 415 | 416 | 416 | 418 | 421 | 425 | 428 | 432 | 433 | 430 | 431 | 426 | 420 | 416 | 412 | 419 | | | |
| Sum 11,000γ+ | 542 | 507 | 532 | 584 | 530 | 488 | 519 | 581 | 610 | 628 | 645 | 652 | 713 | 795 | 909 | 980 | 1085 | 1137 | 1045 | 1063 | 938 | 765 | 653 | 526 | | Grand Total 281,427 | | |

GEO MAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

| 4 LERWICK | | | | | | | | | | FEBRUARY 1966 | |
|-----------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|--|
| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph house °C | |
| 1 q | 1100 1000 | 3 | 1000 1000 | 2 | 1100 0000 | 2 | 1000 0000 | 1 | 0 | 14.2 | |
| 2 | 0000 1111 | 4 | 0000 1111 | 4 | 0000 1010 | 2 | 0000 0000 | 0 | 0 | 14.2 | |
| 3 | 0011 2243 | 13 | 0011 2233 | 12 | 0010 1143 | 10 | 0000 1131 | 6 | 1 | 13.9 | |
| 4 | 2211 2233 | 16 | 1111 1233 | 13 | 2211 2233 | 16 | 2000 0122 | 7 | 1 | 14.2 | |
| 5 d | 3222 2243 | 20 | 2212 2222 | 15 | 3222 1243 | 19 | 2111 1222 | 12 | 1 | 14.3 | |
| 6 | 2211 1022 | 11 | 1111 1011 | 7 | 2211 1022 | 11 | 0200 0000 | 2 | 1 | 14.0 | |
| 7 | 2100 0122 | 8 | 1000 0111 | 4 | 2100 0022 | 7 | 0000 0000 | 0 | 1 | 14.1 | |
| 8 | 0000 1111 | 4 | 0000 1111 | 4 | 0000 1110 | 3 | 0000 0000 | 0 | 0 | 14.2 | |
| 9 q | 1000 0001 | 2 | 0000 0001 | 1 | 1000 0001 | 2 | 0000 0000 | 0 | 0 | 13.7 | |
| 10 | 1111 1123 | 11 | 1011 1112 | 8 | 1111 1023 | 10 | 0000 0022 | 4 | 1 | 13.7 | |
| 11 | 2211 2223 | 15 | 1011 2222 | 11 | 2211 2103 | 12 | 1100 1102 | 6 | 1 | 13.1 | |
| 12 | 3111 0000 | 6 | 2101 0000 | 4 | 3111 0000 | 6 | 2100 0000 | 3 | 1 | 12.8 | |
| 13 | 1110 1100 | 5 | 1110 1100 | 5 | 1100 0000 | 2 | 1100 0000 | 2 | 1 | 12.0 | |
| 14 q | 0000 0100 | 1 | 0000 0100 | 1 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 12.0 | |
| 15 | 0000 1012 | 4 | 0000 1011 | 3 | 0000 1012 | 4 | 0000 0000 | 0 | 1 | 12.7 | |
| 16 | 1110 0002 | 5 | 1110 0002 | 5 | 1100 0001 | 3 | 1000 0001 | 2 | 1 | 13.0 | |
| 17 | 0000 1032 | 6 | 0000 1022 | 5 | 0000 0032 | 5 | 0000 0010 | 1 | 1 | 13.1 | |
| 18 | 1000 0000 | 1 | 0000 0000 | 0 | 1000 0000 | 1 | 0000 0000 | 0 | 0 | 13.2 | |
| 19 d | 1111 1343 | 15 | 1011 1332 | 12 | 1101 1343 | 14 | 0000 1443 | 12 | 2 | 13.8 | |
| 20 d | 3332 2221 | 18 | 2232 2211 | 15 | 3332 2221 | 18 | 3121 2000 | 9 | 1 | 13.1 | |
| 21 | 0011 1101 | 5 | 0011 1101 | 5 | 0011 0000 | 2 | 0000 0000 | 0 | 0 | 13.3 | |
| 22 | 0001 3434 | 15 | 0001 3333 | 13 | 0001 3434 | 15 | 0000 3223 | 10 | 1 | 14.3 | |
| 23 d | 2433 2343 | 24 | 1433 2333 | 22 | 2423 1343 | 22 | 2442 1232 | 20 | 2 | 14.0 | |
| 24 d | 2222 2243 | 19 | 2222 2132 | 16 | 2222 1243 | 18 | 1101 1121 | 8 | 1 | 14.2 | |
| 25 | 3111 2322 | 15 | 1111 2212 | 11 | 3110 1321 | 12 | 2200 0102 | 7 | 1 | 14.3 | |
| 26 q | 1000 1010 | 3 | 0000 1010 | 2 | 1000 0010 | 2 | 1000 0000 | 1 | 0 | 14.1 | |
| 27 | 0101 1000 | 3 | 0101 1000 | 3 | 0001 0000 | 1 | 0000 0000 | 0 | 0 | 14.6 | |
| 28 q | 1001 0000 | 2 | 0001 0000 | 1 | 1000 0000 | 1 | 0000 0000 | 0 | 0 | 14.3 | |
| | | | | | | | | Mean | 0.71 | 13.7 | |

a denotes an international quiet day and *d* an international disturbed day.

\mathbf{F} For horizontal component. \mathbf{K} For declination. \mathbf{L} For vertical component. (See Introduction).

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000y (0.14 CGS unit) + | | | | | | | | | | | | | MARCH 1966 | | | |
|---------------|------|------|---------------------------|------|------|------|------|------|------|------|-------|-------|---------------------------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|---------------------|------|------|
| | Hour | GMT | 14,000y (0.14 CGS unit) + | | | | | | | | | | | | Mean | Sum 14,000y+ | | | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | | | |
| 1 q | 675 | 673 | 673 | 671 | 671 | 677 | 678 | 675 | 668 | 657 | 649 | 642 | 652 | 661 | 670 | 673 | 672 | 674 | 673 | 673 | 674 | 677 | 676 | 676 | 669 | 669 | 2060 | | |
| 2 q | 676 | 675 | 676 | 675 | 674 | 675 | 674 | 673 | 668 | 663 | 661 | 664 | 668 | 669 | 672 | 673 | 672 | 668 | 669 | 676 | 676 | 674 | 674 | 673 | 672 | 672 | 2118 | | |
| 3 | 671 | 672 | 674 | 671 | 672 | 676 | 679 | 681 | 680 | 666 | 649 | 658 | 672 | 670 | 672 | 674 | 672 | 673 | 671 | 667 | 671 | 656 | 654 | 670 | 670 | 673 | 2073 | | |
| 4 | 658 | 668 | 667 | 669 | 668 | 670 | 671 | 668 | 663 | 660 | 661 | 659 | 660 | 664 | 669 | 672 | 668 | 667 | 673 | 679 | 668 | 666 | 666 | 666 | 667 | 667 | 1997 | | |
| 5 | 669 | 665 | 664 | 668 | 668 | 670 | 672 | 675 | 670 | 662 | 653 | 650 | 651 | 658 | 666 | 674 | 673 | 673 | 671 | 671 | 669 | 666 | 666 | 666 | 667 | 667 | 1996 | | |
| 6 | 671 | 666 | 666 | 668 | 674 | 673 | 674 | 671 | 666 | 656 | 649 | 653 | 657 | 661 | 664 | 665 | 669 | 667 | 672 | 675 | 673 | 669 | 668 | 674 | 667 | 667 | 2001 | | |
| 7 q | 671 | 668 | 669 | 674 | 675 | 674 | 673 | 674 | 668 | 657 | 650 | 648 | 652 | 662 | 666 | 673 | 672 | 674 | 674 | 675 | 675 | 672 | 671 | 668 | 668 | 668 | 2040 | | |
| 8 | 671 | 672 | 671 | 673 | 674 | 678 | 677 | 677 | 675 | 665 | 659 | 657 | 657 | 664 | 670 | 673 | 673 | 672 | 675 | 678 | 678 | 678 | 678 | 672 | 672 | 672 | 2119 | | |
| 9 | 677 | 677 | 676 | 676 | 678 | 678 | 679 | 676 | 671 | 663 | 654 | 654 | 653 | 655 | 663 | 669 | 671 | 675 | 680 | 683 | 676 | 661 | 668 | 654 | 669 | 669 | 2067 | | |
| 10 | 626 | 665 | 664 | 666 | 667 | 670 | 672 | 673 | 663 | 655 | 651 | 643 | 650 | 656 | 649 | 659 | 671 | 675 | 678 | 680 | 677 | 677 | 688 | 672 | 664 | 664 | 1947 | | |
| 11 | 675 | 664 | 671 | 670 | 672 | 674 | 673 | 671 | 667 | 658 | 651 | 649 | 653 | 661 | 668 | 672 | 674 | 674 | 679 | 671 | 667 | 676 | 677 | 667 | 668 | 668 | 2034 | | |
| 12 | 664 | 670 | 673 | 674 | 675 | 676 | 675 | 674 | 669 | 653 | 647 | 645 | 652 | 656 | 660 | 667 | 673 | 678 | 679 | 679 | 679 | 679 | 679 | 669 | 669 | 669 | 2044 | | |
| 13 | 680 | 677 | 679 | 674 | 676 | 675 | 676 | 674 | 669 | 664 | 659 | 660 | 666 | 676 | 685 | 686 | 684 | 694 | 671 | 672 | 645 | 626 | 567 | 418 | 656 | 656 | 1755 | | |
| 14 d | 416 | 516 | 551 | 608 | 594 | 529 | 460 | 518 | 540 | 569 | 518 | 510 | 575 | 675 | 713 | 703 | 705 | 645 | 645 | 656 | 657 | 659 | 660 | 667 | 609 | 615 | 615 | 1615 | |
| 15 | 654 | 658 | 654 | 654 | 658 | 665 | 669 | 662 | 649 | 638 | 633 | 634 | 649 | 653 | 654 | 659 | 665 | 661 | 661 | 664 | 683 | 665 | 661 | 655 | 655 | 655 | 1731 | | |
| 16 | 652 | 663 | 663 | 661 | 670 | 670 | 667 | 662 | 656 | 644 | 633 | 629 | 645 | 643 | 653 | 655 | 659 | 666 | 668 | 670 | 667 | 655 | 659 | 659 | 657 | 657 | 1769 | | |
| 17 | 664 | 662 | 661 | 665 | 668 | 670 | 669 | 666 | 659 | 648 | 642 | 641 | 645 | 656 | 653 | 654 | 668 | 673 | 683 | 677 | 671 | 674 | 673 | 654 | 662 | 662 | 1896 | | |
| 18 | 662 | 657 | 661 | 666 | 668 | 669 | 669 | 667 | 663 | 658 | 649 | 640 | 643 | 654 | 661 | 666 | 667 | 671 | 676 | 677 | 676 | 676 | 681 | 664 | 664 | 664 | 1943 | | |
| 19 d | 682 | 682 | 684 | 688 | 683 | 681 | 683 | 678 | 668 | 654 | 650 | 644 | 628 | 639 | 646 | 667 | 669 | 675 | 658 | 677 | 661 | 672 | 692 | 664 | 668 | 668 | 2025 | | |
| 20 | 654 | 645 | 633 | 664 | 667 | 670 | 667 | 664 | 654 | 649 | 638 | 637 | 639 | 653 | 651 | 661 | 657 | 671 | 672 | 675 | 674 | 670 | 672 | 681 | 659 | 659 | 1818 | | |
| 21 | 670 | 662 | 657 | 661 | 672 | 668 | 673 | 673 | 662 | 651 | 644 | 645 | 650 | 657 | 668 | 670 | 677 | 677 | 677 | 677 | 677 | 678 | 678 | 666 | 666 | 666 | 1976 | | |
| 22 | 669 | 667 | 672 | 675 | 679 | 679 | 673 | 665 | 655 | 646 | 643 | 643 | 651 | 659 | 665 | 671 | 679 | 680 | 678 | 679 | 673 | 669 | 674 | 669 | 669 | 669 | 2062 | | |
| 23 d | 673 | 675 | 675 | 680 | 670 | 687 | 689 | 668 | 625 | 568 | 570 | 634 | 690 | 692 | 726 | 869 | 962 | 958 | 759 | 611 | 680 | 681 | 672 | 657 | 699 | 699 | 2771 | | |
| 24 q | 643 | 638 | 639 | 640 | 642 | 645 | 648 | 646 | 643 | 638 | 633 | 635 | 642 | 650 | 655 | 654 | 657 | 659 | 660 | 659 | 662 | 647 | 647 | 1538 | 1538 | 1538 | 1538 | | |
| 25 | 661 | 667 | 667 | 668 | 670 | 671 | 674 | 672 | 660 | 649 | 641 | 642 | 648 | 654 | 659 | 674 | 677 | 668 | 684 | 671 | 674 | 671 | 665 | 665 | 665 | 665 | 665 | 1968 | |
| 26 d | 674 | 674 | 673 | 674 | 677 | 676 | 678 | 676 | 670 | 660 | 654 | 669 | 641 | 628 | 645 | 664 | 659 | 660 | 661 | 667 | 672 | 673 | 672 | 665 | 665 | 665 | 665 | 665 | 1965 |
| 27 | 668 | 660 | 657 | 656 | 660 | 661 | 659 | 637 | 643 | 650 | 646 | 638 | 633 | 651 | 662 | 672 | 668 | 664 | 667 | 672 | 675 | 675 | 676 | 676 | 660 | 660 | 660 | 1829 | |
| 28 d | 673 | 666 | 663 | 667 | 667 | 665 | 652 | 653 | 649 | 623 | 607 | 595 | 615 | 623 | 648 | 686 | 685 | 673 | 725 | 586 | 615 | 657 | 659 | 647 | 647 | 647 | 1538 | | |
| 29 | 653 | 662 | 646 | 600 | 625 | 667 | 662 | 653 | 644 | 643 | 639 | 637 | 653 | 660 | 664 | 669 | 671 | 672 | 675 | 674 | 675 | 671 | 671 | 655 | 655 | 655 | 1731 | | |
| 30 | 672 | 667 | 661 | 660 | 657 | 659 | 662 | 661 | 657 | 653 | 646 | 641 | 640 | 656 | 662 | 673 | 677 | 669 | 674 | 675 | 674 | 678 | 668 | 663 | 663 | 663 | 1909 | | |
| 31 q | 663 | 667 | 669 | 668 | 669 | 667 | 665 | 662 | 655 | 649 | 645 | 641 | 643 | 655 | 660 | 665 | 669 | 672 | 674 | 676 | 676 | 678 | 676 | 677 | 664 | 664 | 664 | 1941 | |
| Mean | 658 | 661 | 662 | 664 | 666 | 667 | 664 | 663 | 657 | 648 | 643 | 645 | 649 | 656 | 665 | 676 | 680 | 679 | 675 | 669 | 669 | 668 | 661 | 663 | 663 | 663 | 663 | | |
| Sum 10,000y+ | 1387 | 1500 | 1509 | 1584 | 1636 | 1666 | 1597 | 1555 | 1359 | 1079 | 928 | 996 | 1135 | 1348 | 1609 | 1945 | 2070 | 2061 | 1929 | 1726 | 1729 | 1736 | 1708 | 1484 | | | Grand Total 493,276 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | MARCH 1966 | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|--------------|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 200°0'+' |
| 1 q | 19.1 | 19.0 | 18.7 | 18.4 | 18.1 | 17.4 | 17.5 | 17.6 | 16.7 | 17.3 | 19.5 | 21.1 | 22.1 | 22.2 | 22.1 | 21.0 | 20.1 | 20.1 | 19.5 | 20.3 | 20.3 | 20.0 | 19.5 | 19.3 | 19.3 | 19.5 | 266.9 | |
| 2 q | 18.8 | 19.0 | 18.7 | 17.7 | 18.2 | 18.2 | 18.1 | 17.9 | 18.8 | 21.1 | 23.0 | 23.5 | 22.9 | 22.1 | 21.4 | 20.9 | 20.9 | 21.4 | 21.4 | 20.8 | 20.2 | 19.5 | 18.5 | 18.3 | 19.9 | 19.9 | 278.6 | |
| 3 | 19.1 | 22.1 | 18.5 | 17.4 | 17.5 | 17.3 | 17.8 | 18.2 | 18.3 | 19.4 | 23.1 | 23.0 | 23.2 | 22.9 | 22.2 | 20.9 | 20.6 | 21.0 | 21.0 | 21.3 | 17.6 | 15.0 | 9.4 | 19.5 | 19.5 | 268.7 | | |
| 4 | 18.2 | 16.7 | 16.1 | 15.4 | 15.8 | 16.5 | 16.5 | 17.1 | 17.7 | 18.8 | 21.0 | 23.7 | 24.6 | 23.5 | 22.8 | 22.9 | 2 | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

9

3 LERWICK (Z)

47,000+ (0.47 CGS unit) *

MARCH 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 9000+* |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|---------------|
| 1 q | 419 | 419 | 418 | 418 | 418 | 414 | 415 | 415 | 415 | 417 | 418 | 418 | 419 | 417 | 416 | 418 | 420 | 419 | 419 | 422 | 423 | 422 | 421 | 421 | 421 | 419 | 1047 | |
| 2 q | 420 | 418 | 417 | 416 | 416 | 415 | 415 | 416 | 416 | 414 | 411 | 409 | 410 | 413 | 415 | 418 | 420 | 423 | 423 | 420 | 421 | 422 | 422 | 421 | 417 | 1011 | | |
| 3 | 420 | 412 | 405 | 412 | 414 | 413 | 412 | 411 | 412 | 413 | 414 | 411 | 412 | 414 | 419 | 419 | 418 | 424 | 428 | 435 | 431 | 394 | 413 | 416 | 416 | 974 | | |
| 4 | 401 | 376 | 408 | 415 | 416 | 415 | 415 | 415 | 415 | 414 | 411 | 412 | 413 | 416 | 418 | 422 | 429 | 427 | 427 | 426 | 430 | 439 | 424 | 421 | 417 | 1005 | | |
| 5 | 421 | 423 | 421 | 419 | 421 | 417 | 415 | 412 | 413 | 415 | 417 | 418 | 420 | 420 | 423 | 425 | 424 | 422 | 420 | 421 | 421 | 423 | 423 | 420 | 420 | 1074 | | |
| 6 | 415 | 419 | 423 | 423 | 421 | 419 | 417 | 417 | 416 | 417 | 417 | 417 | 420 | 427 | 430 | 429 | 430 | 428 | 424 | 424 | 426 | 425 | 419 | 422 | 422 | 1129 | | |
| 7 q | 416 | 414 | 410 | 414 | 418 | 418 | 417 | 414 | 413 | 412 | 409 | 411 | 414 | 418 | 422 | 426 | 428 | 426 | 424 | 422 | 421 | 418 | 418 | 418 | 418 | 1021 | | |
| 8 | 418 | 417 | 416 | 417 | 418 | 417 | 417 | 415 | 411 | 410 | 408 | 407 | 409 | 412 | 416 | 420 | 422 | 424 | 427 | 422 | 417 | 415 | 414 | 414 | 416 | 983 | | |
| 9 | 415 | 417 | 418 | 420 | 420 | 420 | 419 | 418 | 417 | 414 | 411 | 405 | 405 | 409 | 414 | 421 | 424 | 423 | 421 | 419 | 424 | 436 | 423 | 400 | 417 | 1013 | | |
| 10 | 363 | 369 | 407 | 418 | 421 | 422 | 422 | 422 | 417 | 411 | 410 | 410 | 415 | 429 | 427 | 427 | 429 | 426 | 427 | 422 | 400 | 394 | 414 | 414 | 937 | | | |
| 11 | 395 | 398 | 387 | 388 | 404 | 414 | 417 | 419 | 418 | 417 | 414 | 409 | 408 | 409 | 412 | 417 | 419 | 421 | 421 | 429 | 431 | 423 | 403 | 402 | 411 | 875 | | |
| 12 | 395 | 404 | 412 | 415 | 417 | 418 | 419 | 419 | 417 | 416 | 413 | 412 | 411 | 415 | 420 | 428 | 431 | 429 | 425 | 423 | 421 | 420 | 418 | 417 | 417 | 1015 | | |
| 13 | 416 | 417 | 415 | 419 | 418 | 419 | 420 | 420 | 417 | 414 | 411 | 409 | 411 | 415 | 424 | 429 | 436 | 471 | 497 | 507 | 507 | 458 | 307 | 215 | 416 | 985 | | |
| 14 d | 280 | 234 | 262 | 164 | 112 | 159 | 219 | 349 | 402 | 431 | 480 | 544 | 521 | 489 | 506 | 517 | 519 | 492 | 456 | 444 | 441 | 434 | 434 | 421 | 388 | 310 | | |
| 15 | 419 | 416 | 417 | 419 | 409 | 418 | 424 | 430 | 434 | 430 | 424 | 421 | 419 | 423 | 134 | 439 | 442 | 447 | 443 | 440 | 421 | 421 | 427 | 427 | 1251 | | | |
| 16 | 418 | 411 | 421 | 421 | 410 | 410 | 418 | 422 | 423 | 425 | 428 | 432 | 431 | 432 | 131 | 432 | 431 | 430 | 428 | 427 | 431 | 441 | 438 | 435 | 426 | 1226 | | |
| 17 | 429 | 428 | 423 | 422 | 421 | 421 | 422 | 422 | 424 | 422 | 420 | 419 | 420 | 427 | 425 | 423 | 421 | 421 | 423 | 424 | 422 | 420 | 418 | 417 | 424 | 1182 | | |
| 18 | 395 | 414 | 419 | 421 | 423 | 423 | 423 | 424 | 420 | 417 | 420 | 422 | 422 | 425 | 428 | 427 | 425 | 423 | 422 | 423 | 424 | 423 | 421 | 421 | 1107 | | | |
| 19 d | 425 | 425 | 421 | 414 | 418 | 418 | 415 | 417 | 418 | 421 | 418 | 421 | 428 | 433 | 135 | 441 | 446 | 445 | 478 | 455 | 435 | 423 | 400 | 379 | 426 | 1229 | | |
| 20 | 391 | 406 | 361 | 388 | 409 | 416 | 419 | 420 | 422 | 419 | 415 | 413 | 414 | 422 | 432 | 440 | 446 | 439 | 435 | 431 | 425 | 425 | 421 | 410 | 417 | 1019 | | |
| 21 | 403 | 397 | 404 | 403 | 403 | 413 | 412 | 416 | 419 | 421 | 422 | 420 | 421 | 424 | 425 | 431 | 431 | 430 | 427 | 423 | 425 | 424 | 423 | 394 | 417 | 1011 | | |
| 22 | 407 | 418 | 422 | 422 | 422 | 418 | 418 | 421 | 419 | 420 | 419 | 417 | 414 | 416 | 420 | 424 | 429 | 431 | 432 | 423 | 423 | 422 | 419 | 422 | 422 | 1119 | | |
| 23 d | 421 | 422 | 423 | 413 | 412 | 397 | 396 | 403 | 418 | 431 | 420 | 426 | 459 | 475 | 486 | 573 | 632 | 466 | 347 | 465 | 479 | 494 | 470 | 455 | 1921 | | | |
| 24 q | 456 | 449 | 446 | 445 | 442 | 439 | 439 | 439 | 439 | 437 | 437 | 437 | 436 | 436 | 439 | 440 | 439 | 436 | 435 | 433 | 431 | 430 | 430 | 439 | 1530 | | | |
| 25 | 430 | 429 | 431 | 431 | 431 | 431 | 431 | 430 | 431 | 426 | 420 | 415 | 416 | 421 | 429 | 431 | 430 | 430 | 431 | 426 | 434 | 428 | 428 | 428 | 1271 | | | |
| 26 d | 425 | 426 | 427 | 427 | 426 | 420 | 418 | 420 | 419 | 416 | 413 | 404 | 419 | 426 | 428 | 436 | 446 | 464 | 452 | 435 | 429 | 425 | 425 | 427 | 1255 | | | |
| 27 | 425 | 418 | 408 | 400 | 414 | 424 | 427 | 431 | 432 | 422 | 420 | 425 | 429 | 433 | 439 | 456 | 450 | 440 | 433 | 430 | 428 | 426 | 410 | 427 | 1251 | | | |
| 28 d | 396 | 387 | 402 | 413 | 422 | 426 | 430 | 413 | 416 | 420 | 433 | 441 | 452 | 464 | 470 | 504 | 475 | 512 | 556 | 486 | 246 | 317 | 395 | 417 | 429 | 1293 | | |
| 29 | 403 | 345 | 345 | 351 | 331 | 382 | 401 | 410 | 423 | 429 | 431 | 431 | 431 | 428 | 428 | 427 | 429 | 431 | 432 | 434 | 432 | 430 | 431 | 410 | 850 | | | |
| 30 | 423 | 417 | 410 | 411 | 413 | 419 | 423 | 427 | 427 | 428 | 428 | 427 | 425 | 425 | 429 | 431 | 441 | 437 | 435 | 434 | 429 | 429 | 431 | 427 | 1241 | | | |
| 31 q | 432 | 421 | 421 | 425 | 424 | 424 | 424 | 423 | 421 | 422 | 421 | 420 | 418 | 418 | 425 | 426 | 426 | 429 | 429 | 430 | 428 | 430 | 430 | 425 | 1196 | | | |
| Mean | 409 | 405 | 407 | 406 | 405 | 409 | 412 | 417 | 420 | 421 | 422 | 422 | 424 | 426 | 431 | 438 | 440 | 441 | 438 | 431 | 427 | 426 | 419 | 411 | 421 | | | |
| Sum 12,000+* | 692 | 566 | 620 | 584 | 564 | 679 | 777 | 931 | 1012 | 1038 | 1045 | 1090 | 1135 | 1198 | 1349 | 1583 | 1631 | 1682 | 1589 | 1363 | 1236 | 1216 | 998 | 753 | | Grand Total 313,331 | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

4 LERWICK

MARCH 1966

| | 3-h range indices K* | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph house °C |
|------|----------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 q | 0102 2005 | 5 | 0102 2000 | 5 | 0001 0000 | 1 | 0000 0000 | 0 | 0 | 14.0 |
| 2 q | 1000 0111 | 4 | 0000 0111 | 3 | 1000 0000 | 1 | 0000 0000 | 0 | 0 | 14.3 |
| 3 | 2102 2113 | 12 | 1102 2113 | 11 | 2101 1013 | 9 | 1100 0013 | 6 | 1 | 14.7 |
| 4 | 3101 1113 | 11 | 2100 1113 | 9 | 3101 1103 | 10 | 3000 0102 | 6 | 1 | 14.4 |
| 5 | 1110 1122 | 9 | 1010 1111 | 6 | 0100 0022 | 5 | 0000 0000 | 0 | 1 | 14.6 |
| 6 | 1000 1111 | 5 | 1000 1111 | 5 | 1000 0111 | 4 | 0000 0000 | 0 | 0 | 14.7 |
| 7 q | 2000 1000 | 3 | 1000 1000 | 2 | 2000 0000 | 2 | 2000 0000 | 1 | 0 | 14.9 |
| 8 | 0011 1110 | 5 | 0011 1110 | 5 | 0011 0010 | 3 | 0000 0000 | 0 | 0 | 14.9 |
| 9 | 0001 1113 | 7 | 0001 1113 | 7 | 0000 0013 | 4 | 0000 0003 | 3 | 1 | 14.2 |
| 10 | 4111 2212 | 14 | 2100 0113 | 7 | 2100 1102 | 10 | 2000 0000 | 2 | 1 | 14.0 |
| 11 | 2100 0113 | 8 | 1000 0112 | 5 | 2100 0013 | 7 | 2200 0002 | 6 | 1 | 14.3 |
| 12 | 2011 1100 | 6 | 1001 1100 | 4 | 2011 1000 | 5 | 2000 0000 | 2 | 1 | 14.0 |
| 13 | 1010 1236 | 14 | 1010 1236 | 14 | 0000 0235 | 10 | 0000 0146 | 11 | 2 | 14.1 |
| 14 d | 6655 4421 | 33 | 6555 4421 | 32 | 5642 4311 | 26 | 5465 3321 | 29 | 2 | 13.8 |
| 15 | 2101 1223 | 12 | 1101 1223 | 11 | 2100 1112 | 8 | 1101 0102 | 6 | 1 | 14.3 |
| 16 | 3211 1111 | 11 | 1101 1111 | 7 | 3210 1001 | 8 | 2100 0001 | 4 | 1 | 14.2 |
| 17 | 1010 1123 | 9 | 1010 1123 | 9 | 1010 1013 | 7 | 0000 0233 | 5 | 1 | 14.7 |
| 18 | 1100 1011 | 5 | 1100 1011 | 5 | 1000 0000 | 1 | 2000 0000 | 2 | 0 | 14.7 |
| 19 d | 1212 3244 | 19 | 1112 3234 | 17 | 1212 2144 | 17 | 0100 1143 | 10 | 1 | 14.9 |
| 20 | 4212 2222 | 17 | 3212 2212 | 15 | 4202 1121 | 13 | 3300 1111 | 10 | 1 | 14.7 |
| 21 | 2210 2113 | 12 | 2200 2112 | 10 | 2210 1113</ | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | APRIL 1966 | | | | | |
|-----------------|------|------|------|------|------|------|------|------|-----|-----|-----|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|------------------------|-----------------|---|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000γ+ | |
| 1 d | | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 1 d | 675 | 675 | 675 | 673 | 673 | 674 | 674 | 674 | 670 | 664 | 653 | 649 | 647 | 662 | 679 | 682 | 715 | 719 | 765 | 718 | 715 | 696 | 662 | 622 | 610 | 677 | 1237 | | |
| 2 d | 656 | 646 | 602 | 642 | 662 | 641 | 635 | 653 | 652 | 644 | 638 | 636 | 643 | 645 | 645 | 654 | 654 | 661 | 671 | 674 | 681 | 674 | 667 | 670 | 668 | 669 | 653 | 684 | |
| 3 | 662 | 664 | 661 | 658 | 667 | 673 | 672 | 671 | 662 | 653 | 647 | 645 | 645 | 654 | 654 | 666 | 661 | 667 | 676 | 681 | 678 | 678 | 677 | 662 | 665 | 665 | 666 | 955 | |
| 4 | 676 | 663 | 669 | 673 | 662 | 674 | 671 | 664 | 654 | 645 | 643 | 643 | 644 | 650 | 656 | 665 | 683 | 677 | 684 | 685 | 678 | 679 | 678 | 666 | 666 | 666 | 695 | 995 | |
| 5 | 675 | 675 | 674 | 677 | 678 | 678 | 677 | 667 | 667 | 650 | 642 | 639 | 643 | 651 | 657 | 666 | 675 | 681 | 682 | 682 | 682 | 677 | 679 | 669 | 669 | 669 | 1064 | | |
| 6 | 674 | 678 | 674 | 672 | 674 | 680 | 678 | 675 | 664 | 657 | 643 | 635 | 639 | 654 | 650 | 666 | 671 | 683 | 688 | 682 | 679 | 674 | 675 | 677 | 668 | 668 | 668 | 1042 | |
| 7 | 652 | 673 | 654 | 656 | 660 | 671 | 671 | 668 | 665 | 654 | 650 | 644 | 645 | 650 | 661 | 667 | 677 | 682 | 686 | 682 | 688 | 673 | 673 | 674 | 666 | 666 | 666 | 976 | |
| 8 | 679 | 663 | 657 | 654 | 659 | 674 | 682 | 679 | 664 | 642 | 631 | 627 | 630 | 647 | 661 | 669 | 668 | 683 | 686 | 691 | 683 | 680 | 693 | 679 | 666 | 666 | 666 | 981 | |
| 9 | 677 | 674 | 677 | 679 | 676 | 676 | 671 | 664 | 657 | 644 | 637 | 638 | 640 | 660 | 668 | 676 | 682 | 682 | 682 | 681 | 679 | 679 | 681 | 669 | 669 | 669 | 1052 | | |
| 10 | 682 | 680 | 676 | 677 | 676 | 675 | 669 | 661 | 651 | 646 | 642 | 644 | 650 | 659 | 668 | 673 | 696 | 680 | 675 | 679 | 682 | 684 | 685 | 670 | 670 | 670 | 1086 | | |
| 11 q | 682 | 682 | 679 | 678 | 678 | 679 | 681 | 676 | 667 | 652 | 636 | 632 | 636 | 646 | 660 | 668 | 675 | 681 | 683 | 682 | 682 | 683 | 683 | 682 | 682 | 682 | 682 | 683 | |
| 12 | 681 | 681 | 679 | 680 | 680 | 680 | 681 | 675 | 664 | 653 | 647 | 645 | 649 | 659 | 667 | 673 | 685 | 687 | 688 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 686 | 1187 | |
| 13 d | 688 | 681 | 677 | 682 | 696 | 691 | 684 | 674 | 660 | 648 | 645 | 636 | 632 | 632 | 637 | 677 | 679 | 702 | 720 | 697 | 674 | 655 | 642 | 627 | 647 | 671 | 671 | 1095 | |
| 14 | 645 | 654 | 661 | 662 | 667 | 669 | 673 | 669 | 661 | 657 | 647 | 652 | 654 | 648 | 662 | 666 | 665 | 679 | 687 | 685 | 684 | 679 | 672 | 666 | 666 | 666 | 974 | | |
| 15 | 673 | 682 | 678 | 678 | 679 | 679 | 676 | 672 | 667 | 657 | 646 | 643 | 639 | 640 | 649 | 658 | 669 | 678 | 682 | 685 | 684 | 680 | 679 | 678 | 669 | 669 | 669 | 1051 | |
| 16 | 678 | 678 | 677 | 678 | 682 | 682 | 677 | 668 | 657 | 649 | 642 | 641 | 650 | 665 | 673 | 674 | 683 | 684 | 688 | 692 | 693 | 690 | 690 | 674 | 674 | 674 | 1168 | | |
| 17 | 685 | 684 | 683 | 682 | 682 | 679 | 672 | 650 | 647 | 646 | 646 | 646 | 650 | 653 | 667 | 673 | 678 | 681 | 682 | 685 | 685 | 683 | 679 | 672 | 672 | 672 | 1139 | | |
| 18 | 679 | 678 | 677 | 679 | 678 | 678 | 679 | 674 | 665 | 653 | 646 | 641 | 643 | 644 | 656 | 663 | 675 | 679 | 684 | 685 | 684 | 686 | 685 | 684 | 684 | 684 | 1095 | | |
| 19 q | 685 | 683 | 683 | 682 | 680 | 677 | 674 | 670 | 663 | 653 | 645 | 642 | 643 | 651 | 663 | 674 | 677 | 685 | 687 | 689 | 687 | 688 | 690 | 673 | 673 | 673 | 1160 | | |
| 20 | 689 | 689 | 690 | 689 | 690 | 691 | 688 | 675 | 657 | 649 | 644 | 651 | 637 | 648 | 668 | 691 | 689 | 685 | 687 | 681 | 683 | 682 | 675 | 675 | 675 | 675 | 1211 | | |
| 21 | 679 | 678 | 672 | 674 | 676 | 674 | 677 | 674 | 662 | 647 | 640 | 650 | 644 | 656 | 665 | 673 | 674 | 683 | 684 | 688 | 692 | 693 | 690 | 690 | 674 | 674 | 674 | 1155 | |
| 22 d | 697 | 688 | 684 | 688 | 688 | 683 | 689 | 687 | 664 | 650 | 644 | 642 | 641 | 661 | 663 | 662 | 686 | 695 | 698 | 688 | 687 | 683 | 682 | 677 | 1239 | 1239 | 1239 | | |
| 23 | 688 | 689 | 688 | 678 | 648 | 679 | 677 | 654 | 653 | 640 | 632 | 628 | 633 | 643 | 658 | 710 | 678 | 707 | 689 | 686 | 685 | 683 | 682 | 671 | 671 | 671 | 1103 | | |
| 24 | 690 | 683 | 679 | 675 | 679 | 680 | 674 | 667 | 655 | 643 | 638 | 639 | 651 | 666 | 673 | 685 | 685 | 696 | 707 | 684 | 682 | 684 | 685 | 674 | 1185 | 1185 | 1185 | | |
| 25 q | 683 | 680 | 683 | 683 | 683 | 683 | 680 | 674 | 667 | 655 | 646 | 643 | 646 | 653 | 661 | 678 | 688 | 692 | 696 | 693 | 689 | 686 | 685 | 675 | 675 | 675 | 1209 | | |
| 26 q | 680 | 682 | 683 | 683 | 685 | 685 | 683 | 677 | 672 | 661 | 647 | 640 | 649 | 659 | 670 | 678 | 684 | 686 | 688 | 692 | 695 | 687 | 687 | 684 | 685 | 675 | 675 | 1190 | |
| 27 q | 683 | 682 | 682 | 683 | 683 | 682 | 677 | 672 | 661 | 647 | 640 | 642 | 649 | 659 | 670 | 678 | 684 | 686 | 690 | 695 | 695 | 696 | 693 | 676 | 676 | 676 | 1235 | | |
| 28 | 694 | 695 | 693 | 693 | 691 | 685 | 675 | 675 | 668 | 658 | 648 | 651 | 649 | 659 | 664 | 673 | 681 | 692 | 700 | 691 | 690 | 685 | 682 | 683 | 678 | 678 | 678 | 1275 | |
| 29 | 682 | 682 | 678 | 681 | 682 | 680 | 679 | 670 | 657 | 653 | 647 | 646 | 646 | 646 | 656 | 672 | 671 | 677 | 695 | 701 | 700 | 689 | 679 | 677 | 671 | 671 | 671 | 1171 | |
| 30 d | 672 | 679 | 680 | 680 | 686 | 685 | 681 | 664 | 658 | 653 | 647 | 644 | 647 | 665 | 678 | 686 | 699 | 688 | 680 | 688 | 688 | 674 | 678 | 674 | 674 | 674 | 674 | 1174 | |
| Mean | | | 678 | 677 | 674 | 675 | 676 | 678 | 677 | 672 | 663 | 651 | 644 | 642 | | 643 | 652 | 663 | 674 | 680 | 689 | 689 | 687 | 684 | 681 | 678 | 677 | 671 | |
| Sum 15,000γ+ | 1342 | 1322 | 1230 | 1264 | 1281 | 1346 | 1306 | 1162 | 886 | 543 | 307 | 253 | | 303 | 562 | 897 | 1217 | 1409 | 1667 | 1662 | 1615 | 1513 | 1414 | 1353 | 1317 | | Grand Total 483,171 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | 9° + | | | | | | | | | | | | APRIL 1966 | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|------|----------------|--|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 300·0°+ | |
| 1 d | | | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | |
| 1 d | 18·1 | 17·8 | 17·5 | 17·3 | 16·9 | 16·9 | 16·9 | 15·9 | 15·1 | 16·2 | 18·6 | 22·1 | 27·0 | 32·9 | 33·9 | 33·7 | 30·9 | 33·5 | 22·2 | 22·7 | 22·2 | -2·1 | 4·3 | 4·2 | 19·8 | 174·7 | | | |
| 2 d | 9·9 | 11·5 | 11·4 | 5·1 | 9·4 | 13·6 | 17·9 | 17·0 | 16·0 | 17·0 | 18·6 | 20·1 | 21·7 | 21·9 | 21·8 | 21·3 | 20·6 | 19·6 | 19·2 | 17·8 | 16·3 | 17·5 | 18·7 | 17·8 | 16·7 | 101·7 | | | |
| 3 | 17·0 | 17·2 | 17·8 | 20·6 | 16·8 | 16·5 | 16·2 | 15·8 | 14·9 | 15·1 | 16·8 | 20·1 | 21·6 | 23·1 | 23·9 | 22·5 | 21·6 | 20·4 | 19·8 | 18·7 | 17·6 | 12·2 | 7·9 | 12·5 | 17·8 | 126·6 | | | |
| 4 | 14·5 | 13·4 | 16·4 | 16·0 | 17·7 | 17·2 | 14·3 | 13·8 | 14·0 | 15·4 | 16·0 | 19·8 | 22·7 | 24·8 | 25·3 | 23·6 | 23·6 | 21·9 | 20·6 | 20·6 | 17·5 | 20·3 | 14·1 | 15·7</ | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

11

3 LERWICK (Z)

47,000 γ (0.47 CGS unit) +

APRIL 1966

| | Hour GMT | 47,000 γ (0.47 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------------------------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 9,000 γ + | |
| 1 d | 431 | 430 | 429 | 428 | 427 | 425 | 424 | 423 | 423 | 425 | 423 | 418 | 415 | 427 | 460 | 471 | 512 | 571 | 544 | 521 | 482 | 395 | 326 | 305 | 439 | 1535 | |
| 2 d | 357 | 376 | 327 | 338 | 374 | 396 | 394 | 407 | 418 | 425 | 432 | 436 | 432 | 432 | 433 | 434 | 433 | 432 | 433 | 438 | 443 | 433 | 433 | 427 | 412 | 883 | |
| 3 | 425 | 420 | 422 | 414 | 413 | 418 | 423 | 425 | 429 | 430 | 430 | 424 | 422 | 423 | 430 | 440 | 435 | 430 | 428 | 430 | 433 | 430 | 414 | 407 | 425 | 1195 | |
| 4 | 402 | 415 | 421 | 423 | 420 | 410 | 415 | 420 | 420 | 421 | 422 | 420 | 420 | 420 | 425 | 424 | 428 | 435 | 432 | 429 | 433 | 419 | 423 | 422 | 422 | 1119 | |
| 5 | 417 | 419 | 426 | 427 | 425 | 423 | 423 | 421 | 421 | 423 | 421 | 419 | 415 | 418 | 422 | 425 | 428 | 428 | 428 | 429 | 420 | 419 | 417 | 423 | 1143 | | |
| 6 | 418 | 414 | 400 | 405 | 417 | 419 | 419 | 420 | 421 | 419 | 422 | 420 | 415 | 420 | 429 | 430 | 432 | 430 | 433 | 436 | 436 | 432 | 431 | 426 | 421 | 422 | 1129 |
| 7 | 394 | 359 | 360 | 363 | 388 | 401 | 411 | 415 | 415 | 413 | 414 | 416 | 416 | 418 | 422 | 431 | 438 | 442 | 442 | 439 | 427 | 424 | 422 | 418 | 412 | 888 | |
| 8 | 406 | 390 | 368 | 365 | 379 | 401 | 413 | 418 | 423 | 422 | 418 | 415 | 417 | 420 | 426 | 428 | 432 | 431 | 437 | 433 | 422 | 411 | 411 | 411 | 411 | 868 | |
| 9 | 414 | 420 | 422 | 424 | 425 | 424 | 423 | 421 | 419 | 417 | 417 | 417 | 414 | 415 | 420 | 428 | 433 | 432 | 428 | 427 | 426 | 424 | 421 | 423 | 1144 | | |
| 10 | 420 | 417 | 418 | 420 | 423 | 425 | 428 | 428 | 425 | 424 | 418 | 414 | 417 | 423 | 428 | 432 | 436 | 438 | 461 | 452 | 436 | 428 | 425 | 421 | 427 | 1257 | |
| 11 q | 422 | 422 | 424 | 425 | 425 | 424 | 425 | 426 | 428 | 424 | 421 | 419 | 417 | 415 | 420 | 422 | 423 | 425 | 426 | 425 | 424 | 424 | 423 | 423 | 423 | 1164 | |
| 12 | 424 | 423 | 424 | 422 | 422 | 422 | 422 | 422 | 420 | 419 | 416 | 409 | 409 | 431 | 415 | 420 | 423 | 425 | 425 | 424 | 424 | 423 | 422 | 421 | 421 | 1111 | |
| 13 d | 416 | 419 | 419 | 420 | 414 | 403 | 406 | 407 | 409 | 412 | 415 | 414 | 421 | 435 | 448 | 479 | 489 | 503 | 535 | 509 | 472 | 451 | 434 | 410 | 439 | 1540 | |
| 14 | 398 | 384 | 390 | 401 | 407 | 411 | 413 | 418 | 421 | 420 | 420 | 419 | 420 | 421 | 426 | 434 | 442 | 440 | 446 | 438 | 436 | 433 | 426 | 421 | 416 | 1106 | |
| 15 | 378 | 385 | 407 | 416 | 417 | 416 | 417 | 418 | 418 | 418 | 420 | 421 | 421 | 423 | 427 | 428 | 428 | 430 | 429 | 426 | 425 | 425 | 426 | 419 | 1044 | | |
| 16 | 426 | 425 | 426 | 425 | 424 | 421 | 423 | 424 | 425 | 424 | 421 | 417 | 414 | 415 | 415 | 422 | 428 | 426 | 425 | 423 | 420 | 420 | 421 | 421 | 422 | 1131 | |
| 17 | 422 | 423 | 424 | 422 | 422 | 420 | 418 | 418 | 416 | 420 | 420 | 416 | 413 | 415 | 419 | 423 | 428 | 427 | 425 | 423 | 422 | 424 | 421 | 421 | 421 | 1115 | |
| 18 | 425 | 425 | 424 | 420 | 423 | 420 | 418 | 418 | 420 | 419 | 417 | 414 | 414 | 414 | 418 | 420 | 422 | 422 | 420 | 420 | 420 | 422 | 420 | 420 | 4076 | | |
| 19 q | 422 | 423 | 423 | 425 | 425 | 425 | 423 | 418 | 415 | 415 | 416 | 413 | 412 | 412 | 413 | 418 | 421 | 422 | 421 | 420 | 420 | 420 | 419 | 419 | 1064 | | |
| 20 | 421 | 422 | 423 | 423 | 422 | 421 | 420 | 423 | 420 | 416 | 413 | 410 | 416 | 419 | 432 | 446 | 469 | 454 | 440 | 429 | 424 | 419 | 416 | 428 | 1263 | | |
| 21 | 414 | 404 | 389 | 394 | 405 | 414 | 417 | 415 | 415 | 414 | 412 | 412 | 409 | 414 | 419 | 423 | 427 | 428 | 427 | 424 | 420 | 420 | 424 | 415 | 962 | | |
| 22 d | 397 | 400 | 420 | 424 | 422 | 417 | 404 | 401 | 406 | 408 | 407 | 407 | 411 | 422 | 441 | 445 | 462 | 468 | 443 | 436 | 431 | 427 | 426 | 425 | 423 | 1150 | |
| 23 | 421 | 420 | 421 | 422 | 411 | 392 | 396 | 406 | 411 | 414 | 415 | 414 | 417 | 419 | 420 | 424 | 442 | 437 | 430 | 428 | 426 | 425 | 424 | 419 | 1054 | | |
| 24 | 411 | 408 | 408 | 422 | 423 | 426 | 426 | 424 | 423 | 423 | 420 | 417 | 417 | 420 | 420 | 426 | 430 | 432 | 432 | 425 | 423 | 420 | 422 | 422 | 1128 | | |
| 25 q | 415 | 420 | 422 | 425 | 427 | 429 | 428 | 425 | 421 | 419 | 417 | 414 | 411 | 414 | 416 | 421 | 428 | 433 | 434 | 435 | 432 | 429 | 425 | 424 | 423 | 1164 | |
| 26 q | 424 | 424 | 424 | 425 | 426 | 426 | 426 | 425 | 424 | 420 | 415 | 412 | 410 | 408 | 413 | 419 | 422 | 426 | 425 | 427 | 431 | 427 | 425 | 421 | 422 | 1125 | |
| 27 q | 421 | 422 | 424 | 423 | 425 | 425 | 424 | 423 | 419 | 417 | 414 | 410 | 408 | 409 | 410 | 413 | 417 | 420 | 422 | 423 | 423 | 422 | 422 | 419 | 1057 | | |
| 28 | 418 | 417 | 418 | 418 | 418 | 420 | 421 | 416 | 415 | 412 | 411 | 410 | 410 | 410 | 410 | 412 | 417 | 425 | 436 | 435 | 428 | 426 | 424 | 421 | 419 | 1048 | |
| 29 | 422 | 420 | 420 | 416 | 416 | 416 | 414 | 414 | 409 | 408 | 414 | 419 | 421 | 421 | 426 | 435 | 435 | 425 | 426 | 433 | 436 | 429 | 425 | 419 | 422 | 1119 | |
| 30 d | 411 | 400 | 390 | 388 | 395 | 407 | 414 | 418 | 413 | 411 | 409 | 409 | 416 | 424 | 442 | 469 | 486 | 486 | 490 | 473 | 444 | 440 | 439 | 420 | 419 | 426 | 1227 |
| Mean | 413 | 411 | 410 | 412 | 415 | 416 | 417 | 418 | 419 | 419 | 418 | 416 | 416 | 419 | 425 | 431 | 438 | 441 | 441 | 437 | 433 | 426 | 420 | 417 | 422 | | |
| Sum 12,000 γ | 392 | 346 | 313 | 363 | 446 | 475 | 516 | 552 | 557 | 554 | 536 | 481 | 468 | 573 | 735 | 932 | 1132 | 1239 | 1225 | 1114 | 977 | 778 | 610 | 495 | | Grand Total 303,809 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

4 LERWICK

APRIL 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph house °C |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 d | 0001 3445 | 17 | 0001 3445 | 17 | 0000 3325 | 13 | 0000 3545 | 17 | 2 | 14.0 |
| 2 d | 3321 1021 | 13 | 3321 1011 | 12 | 3320 0021 | 11 | 4420 0000 | 10 | 1 | 14.1 |
| 3 | 1200 1113 | 9 | 1200 1113 | 9 | 1200 0103 | 7 | 0100 0102 | 4 | 1 | 13.9 |
| 4 | 2210 1223 | 13 | 2200 1212 | 10 | 2110 1023 | 10 | 2110 0102 | 7 | 1 | 13.3 |
| 5 | 1110 1123 | 10 | 1010 1112 | 7 | 1110 0023 | 8 | 1000 0011 | 3 | 1 | 13.6 |
| 6 | 2111 2211 | 11 | 2101 2211 | 10 | 1110 1011 | 6 | 1100 0000 | 2 | 1 | 13.8 |
| 7 | 4200 1122 | 12 | 3200 1120 | 9 | 4100 0022 | 9 | 3310 0000 | 7 | 1 | 14.3 |
| 8 | 2211 2113 | 13 | 2211 2112 | 12 | 2211 1013 | 11 | 3220 0002 | 9 | 1 | 14.3 |
| 9 | 1101 2210 | 8 | 1001 2210 | 7 | 1100 0100 | 3 | 1000 0000 | 1 | 1 | 14.2 |
| 10 | 1101 1230 | 9 | 1001 1220 | 7 | 1001 0030 | 6 | 3000 0000 | 2 | 1 | 14.0 |
| 11 q | 0000 1000 | 1 | 0000 1000 | 1 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 13.9 |
| 12 | 0011 0101 | 4 | 0011 0101 | 4 | 0011 0000 | 2 | 0000 0000 | 0 | 0 | 14.2 |
| 13 d | 1212 4342 | 19 | 1212 4342 | 19 | 1111 2332 | 14 | 0100 2343 | 13 | 1 | 14.2 |
| 14 | 2102 2213 | 13 | 2102 2211 | 11 | 1100 1213 | 9 | 1100 0101 | 4 | 1 | 14.0 |
| 15 | 3010 0000 | 4 | 1000 0000 | 1 | 3010 0000 | 4 | 3000 0000 | 3 | 0 | 14.0 |
| 16 | 0000 1101 | 3 | 0000 1101 | 3 | 0000 0001 | 1 | 0000 0000 | 0 | 0 | 14.1 |
| 17 | 0010 1101 | 4 | 0000 1101 | 3 | 0010 0001 | 2 | 0000 0000 | 0 | 0 | 13.5 |
| 18 | 1100 1100 | 4 | 0000 1100 | 2 | 1100 0000 | 2 | 0000 0000 | 0 | 0 | 13.9 |
| 19 q | 0000 1100 | 2 | 0000 1100 | 2 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 13.8 |
| 20 | 0012 2211</td | | | | | | | | | |

GEO MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | | MAY 1966 | |
|---------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------------|---------------------|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 15,000γ+ | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | |
| 1 | 669 | 663 | 667 | 666 | 666 | 651 | 665 | 668 | 656 | 642 | 642 | 639 | 647 | 656 | 665 | 663 | 683 | 684 | 697 | 698 | 686 | 679 | 684 | 679 | 667 | 667 | 1015 |
| 2 d | 679 | 689 | 674 | 675 | 676 | 676 | 663 | 661 | 647 | 639 | 643 | 652 | 637 | 664 | 664 | 677 | 694 | 721 | 710 | 699 | 693 | 682 | 670 | 671 | 673 | 673 | 1156 |
| 3 | 673 | 673 | 673 | 672 | 670 | 668 | 666 | 658 | 652 | 645 | 642 | 645 | 655 | 666 | 676 | 684 | 691 | 695 | 694 | 695 | 686 | 670 | 677 | 674 | 671 | 671 | 1100 |
| 4 d | 673 | 668 | 652 | 654 | 667 | 670 | 670 | 655 | 652 | 646 | 633 | 621 | 637 | 654 | 673 | 677 | 685 | 694 | 706 | 697 | 685 | 663 | 660 | 683 | 666 | 666 | 975 |
| 5 | 673 | 669 | 674 | 674 | 676 | 676 | 667 | 670 | 665 | 650 | 645 | 649 | 654 | 663 | 664 | 670 | 686 | 692 | 704 | 700 | 689 | 682 | 681 | 680 | 673 | 673 | 1153 |
| 6 | 678 | 674 | 671 | 672 | 658 | 670 | 662 | 658 | 654 | 648 | 644 | 648 | 654 | 655 | 670 | 679 | 679 | 690 | 692 | 688 | 689 | 683 | 682 | 684 | 670 | 670 | 1082 |
| 7 | 681 | 676 | 678 | 677 | 675 | 674 | 671 | 667 | 660 | 652 | 648 | 649 | 656 | 660 | 670 | 678 | 682 | 685 | 691 | 696 | 696 | 693 | 679 | 681 | 674 | 674 | 1175 |
| 8 | 679 | 678 | 678 | 677 | 681 | 678 | 675 | 670 | 660 | 650 | 652 | 653 | 659 | 667 | 670 | 703 | 691 | 697 | 711 | 704 | 693 | 677 | 671 | 675 | 677 | 677 | 1249 |
| 9 | 678 | 681 | 677 | 678 | 681 | 676 | 671 | 681 | 672 | 659 | 647 | 645 | 644 | 653 | 656 | 667 | 685 | 695 | 699 | 689 | 684 | 680 | 679 | 674 | 674 | 672 | 1172 |
| 10 q | 678 | 679 | 680 | 680 | 680 | 681 | 679 | 673 | 661 | 653 | 644 | 646 | 650 | 656 | 668 | 676 | 685 | 694 | 694 | 697 | 695 | 694 | 692 | 687 | 676 | 676 | 1222 |
| 11 d | 685 | 684 | 683 | 685 | 689 | 689 | 690 | 683 | 673 | 667 | 656 | 654 | 669 | 657 | 648 | 677 | 684 | 691 | 698 | 712 | 716 | 706 | 692 | 695 | 683 | 683 | 1383 |
| 12 | 693 | 688 | 686 | 681 | 683 | 692 | 691 | 692 | 682 | 669 | 657 | 654 | 658 | 672 | 677 | 677 | 689 | 699 | 701 | 700 | 693 | 689 | 689 | 682 | 683 | 683 | 1394 |
| 13 | 682 | 685 | 687 | 687 | 687 | 689 | 688 | 681 | 660 | 644 | 649 | 654 | 654 | 656 | 661 | 669 | 693 | 702 | 699 | 692 | 687 | 685 | 684 | 677 | 677 | 677 | 1260 |
| 14 q | 685 | 684 | 683 | 684 | 685 | 684 | 677 | 671 | 661 | 655 | 652 | 652 | 654 | 653 | 664 | 675 | 685 | 692 | 698 | 702 | 696 | 692 | 690 | 688 | 678 | 678 | 1262 |
| 15 q | 684 | 684 | 683 | 683 | 685 | 685 | 680 | 671 | 662 | 659 | 655 | 654 | 654 | 656 | 660 | 673 | 682 | 688 | 698 | 703 | 696 | 693 | 690 | 687 | 678 | 678 | 1265 |
| 16 | 686 | 684 | 682 | 681 | 684 | 683 | 678 | 668 | 660 | 652 | 649 | 655 | 666 | 684 | 688 | 679 | 680 | 692 | 702 | 709 | 706 | 687 | 683 | 685 | 680 | 680 | 1323 |
| 17 | 684 | 677 | 670 | 679 | 684 | 681 | 673 | 665 | 653 | 642 | 644 | 646 | 661 | 667 | 668 | 673 | 695 | 699 | 711 | 710 | 702 | 697 | 688 | 683 | 677 | 677 | 1252 |
| 18 | 681 | 685 | 680 | 680 | 685 | 680 | 680 | 676 | 665 | 654 | 650 | 656 | 666 | 670 | 669 | 684 | 690 | 703 | 700 | 698 | 696 | 690 | 687 | 680 | 680 | 680 | 1310 |
| 19 | 689 | 682 | 678 | 680 | 678 | 674 | 671 | 666 | 662 | 656 | 655 | 653 | 648 | 655 | 665 | 672 | 680 | 694 | 705 | 713 | 701 | 698 | 689 | 687 | 677 | 677 | 1251 |
| 20 | 681 | 686 | 681 | 680 | 679 | 680 | 679 | 671 | 667 | 663 | 658 | 649 | 651 | 668 | 674 | 681 | 700 | 698 | 725 | 722 | 711 | 691 | 686 | 689 | 682 | 682 | 1370 |
| 21 | 691 | 689 | 687 | 687 | 684 | 682 | 677 | 672 | 663 | 655 | 650 | 638 | 643 | 658 | 663 | 681 | 699 | 700 | 698 | 694 | 693 | 689 | 689 | 687 | 687 | 687 | 1275 |
| 22 | 685 | 688 | 688 | 688 | 688 | 692 | 688 | 680 | 670 | 660 | 656 | 653 | 656 | 663 | 674 | 684 | 686 | 697 | 709 | 705 | 698 | 692 | 691 | 690 | 683 | 683 | 1381 |
| 23 q | 685 | 684 | 685 | 686 | 689 | 692 | 691 | 690 | 683 | 673 | 661 | 653 | 644 | 653 | 660 | 670 | 684 | 699 | 710 | 713 | 709 | 698 | 692 | 691 | 684 | 684 | 1361 |
| 24 q | 689 | 688 | 689 | 692 | 692 | 691 | 690 | 683 | 673 | 661 | 653 | 648 | 653 | 660 | 670 | 684 | 699 | 710 | 713 | 709 | 708 | 698 | 692 | 691 | 684 | 684 | 1418 |
| 25 | 686 | 691 | 691 | 692 | 693 | 692 | 685 | 678 | 670 | 655 | 644 | 642 | 651 | 671 | 686 | 699 | 709 | 705 | 700 | 694 | 690 | 692 | 695 | 705 | 684 | 684 | 1416 |
| 26 d | 703 | 700 | 698 | 704 | 704 | 701 | 691 | 684 | 672 | 634 | 634 | 602 | 622 | 649 | 739 | 805 | 953 | 953 | 834 | 610 | 519 | 491 | 375 | 494 | 671 | 671 | 1106 |
| 27 | 607 | 644 | 650 | 649 | 649 | 645 | 642 | 643 | 635 | 628 | 622 | 621 | 626 | 638 | 644 | 657 | 663 | 665 | 666 | 667 | 667 | 670 | 666 | 647 | 529 | | |
| 28 | 644 | 663 | 668 | 670 | 664 | 659 | 647 | 640 | 632 | 625 | 623 | 626 | 638 | 661 | 660 | 666 | 676 | 677 | 683 | 681 | 674 | 686 | 672 | 659 | 811 | | |
| 29 | 667 | 665 | 667 | 673 | 673 | 667 | 661 | 651 | 638 | 633 | 633 | 635 | 644 | 643 | 647 | 662 | 671 | 687 | 696 | 692 | 691 | 677 | 675 | 672 | 663 | 919 | |
| 30 | 667 | 667 | 672 | 672 | 675 | 670 | 662 | 662 | 651 | 640 | 633 | 635 | 648 | 650 | 664 | 666 | 676 | 694 | 713 | 708 | 712 | 687 | 670 | 651 | 670 | 1079 | |
| 31 d | 634 | 669 | 671 | 664 | 621 | 681 | 671 | 632 | 599 | 604 | 596 | 610 | 654 | 670 | 720 | 780 | 817 | 770 | 761 | 707 | 666 | 617 | 633 | 541 | 666 | 988 | |
| Mean | 676 | 670 | 677 | 678 | 677 | 674 | 668 | 658 | 648 | 642 | 643 | 650 | 660 | 671 | 684 | 700 | 705 | 707 | 697 | 688 | 678 | 672 | 671 | 674 | | | |
| Sum 19,000γ+ | 1969 | 2037 | 2003 | 2022 | 2001 | 2029 | 1901 | 1703 | 1388 | 1095 | 894 | 939 | 1160 | 1470 | 1792 | 2214 | 2705 | 2862 | 2905 | 2597 | 2315 | 2011 | 1822 | 1818 | | | Grand Total 501,652 |

GEO MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | MAY 1966 | |
|---------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------|--|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 300'0" | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | |
| 1 | 18.2 | 20.4 | 16.3 | 15.2 | 13.2 | 13.7 | 15.5 | 13.2 | 13.5 | 16.0 | 18.6 | 21.8 | 24.0 | 24.7 | 24.2 | 22.9 | 23.0 | 22.2 | 21.7 | 20.5 | 18.5 | 17.7 | 18.1 | 18.3 | 18.8 | 151.4 | |
| 2 d | 18.0 | 15.8 | 15.4 | 13.6 | 11.2 | 10.0 | 11.8 | 13.8 | 15.8 | 21.3 | 22.4 | 25.2 | 24.7 | 26.0 | 24.8 | 23.4 | 22.8 | 20.9 | 19.6 | 19.0 | 12.0 | 12.9 | 13.6 | 17.8 | 17.8 | 126.9 | |
| 3 | 14.7 | 15.1 | 15.5 | 17.0 | 16.1 | 13.6 | 12.3 | 12.6 | 13.1 | 15.8 | 18.6 | 21.3 | 23.7 | 25.6 | 26.1 | 25.8 | 24.6 | 21.7 | 19.9 | 19.9 | 18.6 | 17.7 | 17.5 | 11.1 | 18.2 | 137.9 | |
| 4 d | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

13

3 LERWICK (Z)

47,000 (0.47 CGS unit) *

MAY 1966

| | Hour | GMT | 47,000 (0.47 CGS unit) * | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum |
|----------|------|-----|--------------------------|-----|-----|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------------------------|-----|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 9000+* | | |
| 1 | 423 | 411 | 400 | 399 | 401 | 409 | 399 | 411 | 415 | 421 | 421 | 421 | 423 | 424 | 432 | 436 | 436 | 437 | 430 | 432 | 441 | 439 | 427 | 424 | 421 | 1112 | | |
| 2 d | 413 | 387 | 389 | 404 | 408 | 409 | 408 | 403 | 405 | 403 | 402 | 409 | 422 | 428 | 438 | 439 | 445 | 440 | 438 | 441 | 440 | 418 | 405 | 414 | 417 | 1008 | | |
| 3 | 416 | 419 | 420 | 420 | 420 | 422 | 423 | 422 | 419 | 418 | 418 | 416 | 416 | 420 | 425 | 429 | 433 | 438 | 440 | 438 | 436 | 433 | 427 | 410 | 424 | 1178 | | |
| 4 d | 383 | 348 | 351 | 365 | 368 | 381 | 392 | 404 | 405 | 408 | 412 | 418 | 418 | 420 | 425 | 436 | 444 | 447 | 447 | 440 | 435 | 429 | 414 | 383 | 407 | 773 | | |
| 5 | 394 | 402 | 404 | 418 | 425 | 429 | 431 | 429 | 430 | 426 | 422 | 418 | 415 | 419 | 421 | 424 | 429 | 435 | 442 | 443 | 438 | 433 | 418 | 417 | 423 | 1162 | | |
| 6 | 419 | 415 | 393 | 379 | 384 | 387 | 403 | 413 | 413 | 410 | 409 | 408 | 411 | 416 | 420 | 427 | 434 | 436 | 435 | 433 | 430 | 424 | 420 | 422 | 414 | 941 | | |
| 7 | 419 | 419 | 422 | 426 | 428 | 428 | 426 | 422 | 419 | 415 | 413 | 410 | 411 | 418 | 424 | 429 | 435 | 439 | 435 | 433 | 431 | 426 | 420 | 419 | 424 | 1167 | | |
| 8 | 417 | 420 | 422 | 423 | 425 | 426 | 426 | 422 | 418 | 411 | 408 | 407 | 411 | 413 | 417 | 437 | 438 | 436 | 445 | 448 | 442 | 426 | 424 | 425 | 428 | 1188 | | |
| 9 | 421 | 419 | 420 | 422 | 420 | 420 | 419 | 420 | 422 | 421 | 419 | 419 | 421 | 421 | 425 | 427 | 427 | 430 | 432 | 433 | 432 | 430 | 426 | 424 | 424 | 1174 | | |
| 10 q | 426 | 425 | 426 | 428 | 428 | 429 | 431 | 431 | 428 | 423 | 418 | 411 | 410 | 413 | 416 | 419 | 422 | 423 | 426 | 427 | 426 | 425 | 425 | 423 | 423 | 1161 | | |
| 11 d | 425 | 425 | 425 | 426 | 426 | 425 | 425 | 425 | 421 | 417 | 414 | 410 | 410 | 417 | 420 | 418 | 424 | 428 | 427 | 424 | 431 | 426 | 403 | 392 | 420 | 1084 | | |
| 12 | 401 | 404 | 412 | 421 | 421 | 419 | 423 | 422 | 421 | 418 | 421 | 424 | 423 | 420 | 425 | 431 | 431 | 424 | 426 | 430 | 436 | 432 | 426 | 419 | 422 | 1130 | | |
| 13 | 395 | 396 | 414 | 418 | 419 | 419 | 423 | 424 | 428 | 425 | 415 | 415 | 420 | 419 | 417 | 421 | 427 | 433 | 432 | 431 | 428 | 426 | 426 | 421 | 421 | 1103 | | |
| 14 q | 425 | 425 | 426 | 426 | 425 | 425 | 426 | 426 | 427 | 424 | 423 | 418 | 414 | 413 | 414 | 417 | 420 | 421 | 422 | 425 | 427 | 428 | 426 | 423 | 423 | 1150 | | |
| 15 q | 427 | 427 | 426 | 427 | 427 | 425 | 426 | 426 | 420 | 413 | 409 | 403 | 405 | 412 | 418 | 420 | 422 | 422 | 422 | 424 | 428 | 426 | 426 | 425 | 421 | 1106 | | |
| 16 | 427 | 426 | 428 | 427 | 426 | 424 | 426 | 426 | 421 | 414 | 412 | 411 | 415 | 417 | 422 | 427 | 431 | 427 | 425 | 423 | 426 | 428 | 420 | 420 | 423 | 1149 | | |
| 17 | 416 | 414 | 396 | 400 | 409 | 414 | 418 | 418 | 415 | 406 | 398 | 401 | 410 | 419 | 427 | 428 | 438 | 442 | 443 | 437 | 416 | 392 | 405 | 416 | 978 | | | |
| 18 | 397 | 392 | 404 | 408 | 406 | 411 | 417 | 421 | 422 | 423 | 420 | 412 | 409 | 413 | 419 | 421 | 424 | 425 | 430 | 429 | 425 | 426 | 423 | 423 | 417 | 1000 | | |
| 19 | 418 | 419 | 425 | 427 | 428 | 425 | 421 | 419 | 417 | 415 | 418 | 420 | 415 | 414 | 421 | 430 | 432 | 431 | 433 | 433 | 423 | 421 | 421 | 423 | 1149 | | | |
| 20 | 423 | 420 | 421 | 422 | 422 | 422 | 419 | 413 | 407 | 409 | 408 | 405 | 417 | 427 | 432 | 442 | 437 | 438 | 439 | 435 | 424 | 419 | 422 | 422 | 1131 | | | |
| 21 | 421 | 422 | 424 | 426 | 427 | 429 | 427 | 424 | 421 | 417 | 414 | 415 | 410 | 413 | 423 | 424 | 425 | 430 | 432 | 430 | 427 | 424 | 424 | 422 | 423 | 1151 | | |
| 22 | 423 | 425 | 426 | 428 | 426 | 422 | 424 | 423 | 420 | 418 | 415 | 412 | 413 | 418 | 423 | 434 | 433 | 431 | 429 | 427 | 424 | 424 | 419 | 424 | 424 | 1166 | | |
| 23 q | 422 | 423 | 425 | 426 | 425 | 424 | 426 | 426 | 426 | 422 | 419 | 415 | 415 | 417 | 418 | 416 | 419 | 425 | 430 | 431 | 427 | 423 | 421 | 420 | 423 | 1141 | | |
| 24 q | 421 | 422 | 424 | 426 | 427 | 427 | 425 | 423 | 421 | 415 | 412 | 411 | 411 | 404 | 411 | 415 | 422 | 427 | 431 | 431 | 428 | 423 | 420 | 421 | 421 | 1108 | | |
| 25 | 420 | 419 | 421 | 421 | 422 | 423 | 424 | 422 | 420 | 414 | 408 | 403 | 403 | 404 | 411 | 419 | 426 | 437 | 442 | 441 | 435 | 429 | 424 | 419 | 421 | 1107 | | |
| 26 d | 418 | 420 | 421 | 420 | 420 | 420 | 420 | 419 | 412 | 423 | 449 | 447 | 512 | 493 | 499 | 521 | 527 | 536 | 514 | 405 | 408 | 459 | 517 | 373 | 452 | 1853 | | |
| 27 | 418 | 427 | 447 | 403 | 409 | 455 | 456 | 451 | 448 | 446 | 441 | 435 | 434 | 433 | 438 | 443 | 448 | 444 | 441 | 441 | 438 | 436 | 437 | 438 | 1510 | | | |
| 28 | 437 | 435 | 432 | 433 | 436 | 432 | 434 | 437 | 432 | 429 | 429 | 434 | 440 | 449 | 446 | 446 | 445 | 442 | 438 | 438 | 439 | 425 | 436 | 436 | 1465 | | | |
| 29 | 430 | 433 | 433 | 436 | 438 | 439 | 436 | 437 | 437 | 434 | 433 | 430 | 428 | 436 | 434 | 432 | 433 | 437 | 444 | 446 | 441 | 438 | 435 | 436 | 1453 | | | |
| 30 | 435 | 436 | 434 | 435 | 435 | 436 | 437 | 440 | 438 | 431 | 426 | 423 | 425 | 421 | 420 | 422 | 428 | 438 | 440 | 447 | 441 | 446 | 431 | 409 | 432 | 1374 | | |
| 31 d | 347 | 353 | 383 | 398 | 307 | 300 | 364 | 396 | 410 | 410 | 428 | 429 | 437 | 460 | 487 | 491 | 541 | 540 | 710 | 617 | 596 | 576 | 560 | 483 | 459 | 2023 | | |
| Mean | 415 | 414 | 417 | 417 | 415 | 418 | 421 | 423 | 422 | 419 | 418 | 416 | 416 | 419 | 422 | 427 | 432 | 437 | 440 | 445 | 439 | 438 | 435 | 430 | 419 | 425 | | |
| Sum | 877 | 830 | 912 | 934 | 879 | 951 | 1052 | 1102 | 1076 | 996 | 966 | 906 | 996 | 1069 | 1244 | 1383 | 1562 | 1642 | 1807 | 1620 | 1577 | 1494 | 1318 | 1002 | | | | |
| 12,000γ+ | | | | | | | | | | | | | | | | | | | | | | | | | | | Grand Total 316,195 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph house °C |
|------|---------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--------------------------------------|
| 1 | 2211 1221 | 12 | 1211 1221 | 11 | 2210 0101 | 7 | 2120 0011 | 7 | 1 | 15·3 |
| 2 d | 2222 2332 | 18 | 2112 2332 | 16 | 2221 1232 | 15 | 2110 0212 | 9 | 1 | 15·2 |
| 3 | 0100 1112 | 6 | 0000 1112 | 5 | 0100 0012 | 4 | 0000 0002 | 2 | 1 | 15·4 |
| 4 d | 3212 2222 | 16 | 3212 2222 | 16 | 3111 0122 | 11 | 3220 0013 | 11 | 1 | 15·0 |
| 5 | 1011 1121 | 8 | 1011 1121 | 8 | 1010 0021 | 5 | 2100 0001 | 4 | 1 | 14·9 |
| 6 | 2221 1111 | 11 | 1211 1111 | 9 | 2221 1001 | 9 | 2120 0000 | 5 | 1 | 15·0 |
| 7 | 1001 0102 | 5 | 1001 0101 | 4 | 0000 0002 | 2 | 0000 0000 | 0 | 0 | 14·7 |
| 8 | 0001 0222 | 9 | 0001 2221 | 8 | 0000 0122 | 5 | 0000 0100 | 1 | 1 | 14·9 |
| 9 | 1111 1100 | 6 | 0111 1100 | 5 | 1010 0000 | 2 | 0000 0000 | 0 | 0 | 14·6 |
| 10 q | 0001 0110 | 3 | 0001 0110 | 1 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 15·1 |
| 11 d | 0001 3123 | 10 | 0001 3122 | 9 | 0000 1013 | 5 | 0000 1023 | 6 | 1 | 14·5 |
| 12 | 2111 1221 | 11 | 0111 1221 | 9 | 2111 0021 | 8 | 1000 0000 | 1 | 1 | 14·9 |
| 13 | 2111 1310 | 10 | 1111 1310 | 9 | 2111 0000 | 5 | 2000 0100 | 3 | 1 | 15·1 |
| 14 q | 0010 0010 | 2 | 0000 0010 | 1 | 0010 0000 | 1 | 0000 0000 | 0 | 0 | 15·0 |
| 15 q | 0000 1000 | 1 | 0000 0010 | 1 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 15·0 |
| 16 | 0000 2121 | 6 | 0000 2111 | 5 | 0000 0221 | 3 | 0000 0000 | 0 | 1 | 15·5 |
| 17 | 2211 1222 | 13 | 2101 1211 | 9 | 2210 0122 | 10 | 0100 0002 | 3 | 1 | 15·5 |
| 18 | 2101 1111 | 8 | 1101 1110 | 6 | 2100 0001 | 4 | 2000 000 | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | | JUNE 1966 | | |
|---------------|------|------|---------------------------|------|------|------|------|------|-----|------|-------|-------|---------------------------|-------|-------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------------|------|---|
| | Hour | GMT | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | Mean | Sum 15,000γ+ | | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000γ+ | | |
| 1 d | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 1 d | 651 | 676 | 661 | 660 | 641 | 636 | 644 | 645 | 631 | 628 | 630 | 631 | 634 | 639 | 649 | 664 | 673 | 678 | 680 | 681 | 681 | 678 | 678 | 674 | 656 | 743 | | |
| 2 d | 674 | 674 | 673 | 676 | 676 | 674 | 673 | 662 | 646 | 636 | 625 | 621 | 645 | 667 | 681 | 707 | 667 | 681 | 706 | 697 | 688 | 679 | 682 | 671 | 1116 | | | |
| 3 | 677 | 676 | 674 | 676 | 673 | 674 | 675 | 671 | 663 | 659 | 650 | 645 | 653 | 663 | 677 | 688 | 714 | 711 | 699 | 707 | 694 | 681 | 681 | 683 | 678 | 1264 | | |
| 4 | 677 | 676 | 671 | 661 | 673 | 678 | 676 | 672 | 661 | 648 | 636 | 635 | 646 | 665 | 682 | 688 | 703 | 694 | 694 | 695 | 693 | 687 | 689 | 685 | 674 | 1185 | | |
| 5 | 673 | 681 | 688 | 694 | 692 | 683 | 675 | 667 | 655 | 642 | 638 | 635 | 650 | 666 | 681 | 687 | 694 | 705 | 707 | 700 | 696 | 694 | 692 | 689 | 679 | 1284 | | |
| 6 | 690 | 685 | 678 | 687 | 694 | 694 | 688 | 679 | 669 | 663 | 657 | 647 | 656 | 665 | 669 | 680 | 686 | 698 | 707 | 699 | 697 | 693 | 688 | 688 | 682 | 1358 | | |
| 7 | 689 | 689 | 684 | 681 | 691 | 695 | 692 | 684 | 669 | 660 | 639 | 651 | 668 | 672 | 686 | 686 | 701 | 704 | 693 | 684 | 682 | 674 | 677 | 681 | 678 | 1343 | | |
| 8 | 691 | 689 | 684 | 682 | 684 | 687 | 687 | 683 | 672 | 656 | 646 | 639 | 654 | 648 | 661 | 670 | 679 | 694 | 702 | 703 | 700 | 693 | 690 | 689 | 678 | 1283 | | |
| 9 q | 685 | 684 | 684 | 688 | 690 | 691 | 689 | 684 | 672 | 657 | 645 | 643 | 645 | 655 | 664 | 672 | 686 | 698 | 707 | 708 | 702 | 695 | 694 | 686 | 680 | 1324 | | |
| 10 q | 682 | 683 | 682 | 681 | 681 | 680 | 673 | 664 | 657 | 649 | 647 | 653 | 661 | 667 | 677 | 688 | 703 | 707 | 705 | 699 | 696 | 693 | 678 | 678 | 1282 | | | |
| 11 q | 689 | 688 | 685 | 683 | 683 | 683 | 682 | 675 | 663 | 647 | 641 | 641 | 645 | 659 | 669 | 687 | 702 | 711 | 716 | 717 | 705 | 703 | 697 | 695 | 682 | 1366 | | |
| 12 | 696 | 691 | 689 | 687 | 680 | 676 | 674 | 673 | 670 | 660 | 654 | 661 | 641 | 664 | 675 | 680 | 691 | 705 | 705 | 703 | 711 | 692 | 677 | 675 | 680 | 1330 | | |
| 13 | 679 | 679 | 681 | 679 | 677 | 675 | 665 | 661 | 652 | 652 | 653 | 648 | 654 | 658 | 672 | 681 | 688 | 691 | 700 | 699 | 695 | 687 | 684 | 675 | 675 | 1192 | | |
| 14 | 673 | 670 | 673 | 678 | 682 | 681 | 674 | 663 | 652 | 651 | 658 | 668 | 666 | 663 | 670 | 676 | 687 | 690 | 709 | 714 | 707 | 697 | 686 | 683 | 678 | 1281 | | |
| 15 | 672 | 677 | 679 | 681 | 682 | 677 | 671 | 661 | 654 | 652 | 654 | 665 | 676 | 684 | 683 | 685 | 688 | 694 | 699 | 709 | 703 | 694 | 685 | 680 | 679 | 1305 | | |
| 16 | 682 | 678 | 688 | 687 | 682 | 671 | 665 | 663 | 660 | 654 | 658 | 668 | 669 | 684 | 687 | 698 | 701 | 703 | 706 | 700 | 693 | 687 | 688 | 682 | 1360 | | | |
| 17 | 685 | 683 | 684 | 677 | 680 | 679 | 679 | 674 | 666 | 653 | 643 | 642 | 656 | 675 | 675 | 680 | 685 | 693 | 709 | 713 | 705 | 697 | 690 | 686 | 680 | 1309 | | |
| 18 q | 681 | 682 | 679 | 679 | 683 | 688 | 685 | 675 | 661 | 642 | 635 | 639 | 652 | 681 | 685 | 698 | 708 | 706 | 702 | 699 | 695 | 693 | 693 | 681 | 1349 | | | |
| 19 | 690 | 688 | 688 | 693 | 693 | 689 | 680 | 670 | 664 | 657 | 651 | 651 | 664 | 691 | 670 | 695 | 719 | 725 | 728 | 710 | 714 | 698 | 687 | 689 | 688 | 1504 | | |
| 20 | 689 | 692 | 693 | 693 | 686 | 669 | 666 | 658 | 645 | 646 | 644 | 648 | 663 | 677 | 682 | 682 | 704 | 718 | 715 | 703 | 694 | 689 | 686 | 681 | 1335 | | | |
| 21 | 685 | 685 | 681 | 681 | 685 | 687 | 681 | 675 | 666 | 654 | 649 | 644 | 642 | 652 | 666 | 675 | 685 | 701 | 704 | 700 | 695 | 689 | 687 | 686 | 677 | 1255 | | |
| 22 q | 683 | 681 | 680 | 683 | 681 | 677 | 668 | 657 | 653 | 648 | 647 | 654 | 657 | 661 | 674 | 685 | 696 | 703 | 709 | 703 | 697 | 694 | 691 | 686 | 678 | 1265 | | |
| 23 d | 682 | 686 | 692 | 693 | 696 | 695 | 691 | 683 | 672 | 653 | 635 | 634 | 648 | 661 | 694 | 689 | 719 | 758 | 762 | 734 | 702 | 687 | 691 | 693 | 690 | 1550 | | |
| 24 d | 688 | 689 | 691 | 695 | 696 | 698 | 696 | 689 | 678 | 656 | 647 | 647 | 658 | 674 | 691 | 702 | 719 | 734 | 767 | 741 | 724 | 682 | 678 | 668 | 692 | 1608 | | |
| 25 d | 664 | 648 | 609 | 664 | 664 | 668 | 660 | 660 | 661 | 657 | 662 | 660 | 644 | 618 | 648 | 671 | 697 | 713 | 733 | 731 | 715 | 693 | 683 | 680 | 666 | 670 | 1082 | |
| 26 | 675 | 676 | 675 | 675 | 670 | 670 | 666 | 651 | 650 | 640 | 652 | 675 | 690 | 682 | 713 | 689 | 696 | 709 | 721 | 708 | 683 | 683 | 680 | 679 | 679 | 1306 | | |
| 27 | 677 | 676 | 677 | 679 | 676 | 673 | 669 | 665 | 659 | 653 | 657 | 657 | 662 | 675 | 680 | 693 | 701 | 696 | 696 | 699 | 693 | 692 | 687 | 683 | 678 | 1271 | | |
| 28 | 682 | 681 | 683 | 686 | 683 | 684 | 680 | 676 | 667 | 659 | 653 | 650 | 657 | 670 | 681 | 692 | 700 | 723 | 712 | 716 | 709 | 693 | 682 | 680 | 683 | 1399 | | |
| 29 | 675 | 677 | 675 | 680 | 680 | 676 | 666 | 661 | 660 | 657 | 662 | 660 | 663 | 673 | 688 | 683 | 690 | 704 | 706 | 703 | 694 | 693 | 693 | 694 | 680 | 1313 | | |
| 30 | 677 | 679 | 678 | 677 | 683 | 682 | 679 | 674 | 665 | 654 | 648 | 650 | 650 | 663 | 674 | 670 | 677 | 697 | 710 | 716 | 710 | 697 | 686 | 673 | 678 | 678 | 1269 | |
| Mean | 680 | 681 | 679 | 681 | 682 | 681 | 677 | 671 | 661 | 652 | 645 | 646 | 654 | 667 | 676 | 685 | 693 | 704 | 710 | 708 | 701 | 691 | 687 | 684 | 679 | | | |
| Sum 15,000γ+ | 1413 | 1419 | 1359 | 1439 | 1456 | 1423 | 1298 | 1120 | 840 | 558 | 357 | 368 | 631 | 994 | 1281 | 1554 | 1806 | 2121 | 2291 | 2232 | 2020 | 1736 | 1598 | 1517 | | Grand Total 448,831 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | JUNE 1966 | |
|---------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--|
| | Hour | GMT | 9° + | | | | | | | | | | | | Mean | Sum 300·0°+ | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 300·0°+ | |
| 1 d | 9.7 | 7.0 | 10.0 | 11.5 | 11.0 | 11.8 | 12.9 | 13.8 | 15.3 | 16.6 | 19.3 | 22.2 | 21.8 | 24.0 | 22.5 | 21.0 | 19.1 | 17.4 | 17.2 | 17.2 | 18.0 | 18.4 | 19.1 | 18.6 | 16.5 | 95.4 | |
| 2 d | 18.0 | 17.6 | 16.8 | 15.5 | 13.4 | 12.0 | 11.8 | 12.4 | 12.4 | 12.8 | 17.5 | 22.3 | 25.7 | 27.9 | 27.0 | 26.8 | 23.0 | 21.0 | 20.0 | 16.6 | 20.8 | 20.7 | 20.0 | 20.3 | 18.8 | 152.3 | |
| 3 | 18.2 | 16.5 | 16.5 | 16.6 | 16.6 | 16.9 | 14.7 | 13.0 | 13.4 | 14.0 | 16.1 | 21.5 | 25.0 | 26.0 | 26.1 | 25.2 | 24.8 | 20.6 | 16.4 | 18.5 | 19.5 | 19.6 | 20.4 | 19.2 | 161.3 | | |
| 4 | 19.4 | 19.4 | 17.9 | 17.7 | 15.9 | 12.8 | 12.5 | 12.8 | 13.8 | 14.5 | 16.7 | 21.0 | 24.3 | 24.8 | 24.9 | 24.9 | 24.7 | 20.8 | 19.1 | 17.2 | 17.2 | 18.4 | 18.5 | 18.8 | 18.8 | 150.5 | |
| 5 | 15.6 | 13.3 | 11.9 | 12.7 | 13.3 | 13.8 | 13 | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

3 LERWICK (Z)

47,000y (0.47 CGS unit) +

JUNE 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 9000y+ | |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|---------------|------|
| 1 d | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 420 | 425 | 432 | 432 | 432 | 432 | 431 | 432 | 430 | 433 | 433 | 434 | 412 | 889 | |
| 2 d | 267 | 326 | 373 | 408 | 421 | 411 | 403 | 415 | 409 | 437 | 429 | 423 | 420 | 426 | 432 | 432 | 432 | 432 | 432 | 432 | 431 | 432 | 430 | 433 | 434 | 426 | 441 | 1579 | |
| 3 | 437 | 439 | 438 | 438 | 439 | 436 | 439 | 439 | 433 | 431 | 435 | 439 | 432 | 430 | 438 | 448 | 471 | 457 | 452 | 462 | 447 | 439 | 434 | 426 | 426 | 426 | 426 | 426 | 1421 |
| 4 | 429 | 438 | 439 | 437 | 436 | 432 | 431 | 431 | 427 | 427 | 426 | 422 | 425 | 426 | 432 | 430 | 442 | 456 | 457 | 449 | 443 | 431 | 423 | 434 | 426 | 426 | 431 | 1342 | |
| 5 | 426 | 429 | 434 | 432 | 427 | 433 | 434 | 434 | 432 | 428 | 427 | 422 | 421 | 423 | 429 | 434 | 435 | 443 | 441 | 437 | 435 | 434 | 426 | 426 | 426 | 426 | 426 | 1202 | |
| 6 | 429 | 427 | 417 | 405 | 401 | 405 | 411 | 418 | 420 | 416 | 410 | 409 | 410 | 414 | 419 | 429 | 432 | 432 | 432 | 434 | 431 | 430 | 427 | 424 | 420 | 420 | 420 | 1082 | |
| 7 | 422 | 425 | 426 | 415 | 395 | 400 | 414 | 418 | 421 | 420 | 425 | 423 | 416 | 425 | 433 | 440 | 442 | 448 | 445 | 445 | 439 | 434 | 432 | 428 | 426 | 426 | 426 | 1231 | |
| 8 | 428 | 426 | 429 | 431 | 432 | 430 | 429 | 429 | 431 | 429 | 430 | 426 | 421 | 429 | 431 | 433 | 436 | 435 | 438 | 438 | 437 | 435 | 433 | 430 | 431 | 431 | 1346 | | |
| 9 q | 429 | 429 | 430 | 432 | 434 | 436 | 439 | 441 | 439 | 437 | 431 | 428 | 425 | 424 | 424 | 429 | 431 | 434 | 439 | 445 | 441 | 437 | 431 | 429 | 433 | 433 | 1394 | | |
| 10 q | 429 | 431 | 431 | 429 | 428 | 428 | 431 | 429 | 424 | 421 | 421 | 419 | 418 | 418 | 420 | 422 | 424 | 425 | 428 | 430 | 431 | 428 | 426 | 426 | 426 | 426 | 1219 | | |
| 11 q | 425 | 425 | 428 | 428 | 430 | 430 | 428 | 428 | 424 | 421 | 420 | 415 | 414 | 415 | 420 | 424 | 427 | 434 | 440 | 439 | 437 | 431 | 430 | 428 | 427 | 427 | 1241 | | |
| 12 | 426 | 425 | 425 | 427 | 426 | 421 | 418 | 415 | 412 | 411 | 409 | 409 | 421 | 422 | 438 | 439 | 432 | 425 | 427 | 429 | 429 | 432 | 431 | 426 | 424 | 424 | 1175 | | |
| 13 | 421 | 417 | 424 | 423 | 419 | 418 | 421 | 421 | 422 | 418 | 417 | 416 | 423 | 425 | 427 | 429 | 431 | 432 | 434 | 436 | 432 | 430 | 425 | 425 | 425 | 425 | 1189 | | |
| 14 | 429 | 425 | 416 | 421 | 423 | 424 | 424 | 425 | 425 | 421 | 418 | 415 | 419 | 425 | 422 | 421 | 425 | 426 | 431 | 435 | 437 | 436 | 434 | 426 | 425 | 425 | 1203 | | |
| 15 | 424 | 421 | 422 | 424 | 422 | 422 | 424 | 424 | 421 | 417 | 411 | 412 | 415 | 416 | 422 | 426 | 430 | 431 | 431 | 430 | 435 | 433 | 421 | 405 | 422 | 422 | 1139 | | |
| 16 | 400 | 415 | 409 | 415 | 418 | 420 | 420 | 416 | 413 | 416 | 420 | 419 | 421 | 425 | 434 | 440 | 443 | 445 | 443 | 439 | 438 | 434 | 431 | 419 | 425 | 425 | 1193 | | |
| 17 | 416 | 425 | 428 | 428 | 424 | 424 | 424 | 426 | 426 | 421 | 417 | 415 | 421 | 425 | 428 | 428 | 431 | 437 | 437 | 434 | 431 | 431 | 426 | 426 | 426 | 426 | 1230 | | |
| 18 q | 430 | 431 | 433 | 433 | 430 | 430 | 430 | 427 | 427 | 427 | 421 | 419 | 421 | 424 | 427 | 427 | 427 | 427 | 430 | 430 | 429 | 428 | 428 | 428 | 428 | 428 | 1263 | | |
| 19 | 430 | 432 | 433 | 433 | 432 | 432 | 427 | 425 | 420 | 417 | 415 | 411 | 411 | 412 | 422 | 419 | 430 | 439 | 436 | 434 | 435 | 433 | 430 | 426 | 426 | 426 | 1235 | | |
| 20 | 430 | 430 | 432 | 433 | 434 | 434 | 437 | 430 | 423 | 418 | 417 | 414 | 412 | 418 | 428 | 443 | 454 | 455 | 447 | 446 | 439 | 434 | 430 | 427 | 432 | 432 | 1361 | | |
| 21 | 426 | 425 | 425 | 425 | 429 | 427 | 426 | 426 | 422 | 420 | 420 | 420 | 418 | 419 | 426 | 433 | 431 | 430 | 432 | 432 | 430 | 427 | 423 | 426 | 426 | 426 | 1221 | | |
| 22 q | 423 | 425 | 428 | 426 | 430 | 430 | 428 | 426 | 420 | 413 | 414 | 416 | 417 | 423 | 426 | 432 | 435 | 437 | 442 | 442 | 442 | 436 | 430 | 426 | 427 | 427 | 1257 | | |
| 23 d | 422 | 410 | 410 | 413 | 417 | 420 | 423 | 423 | 420 | 411 | 403 | 405 | 416 | 425 | 443 | 459 | 476 | 483 | 486 | 469 | 460 | 448 | 433 | 433 | 433 | 433 | 1385 | | |
| 24 d | 432 | 433 | 433 | 435 | 436 | 436 | 434 | 432 | 429 | 427 | 422 | 414 | 407 | 410 | 411 | 419 | 422 | 423 | 432 | 460 | 476 | 460 | 436 | 401 | 430 | 430 | 1320 | | |
| 25 d | 347 | 362 | 282 | 314 | 376 | 400 | 417 | 426 | 434 | 436 | 438 | 436 | 425 | 427 | 439 | 442 | 452 | 462 | 462 | 455 | 446 | 442 | 436 | 417 | 1018 | 1018 | 1161 | | |
| 26 | 429 | 430 | 432 | 431 | 431 | 432 | 433 | 439 | 438 | 430 | 427 | 417 | 412 | 419 | 431 | 427 | 439 | 433 | 440 | 448 | 438 | 433 | 424 | 429 | 430 | 430 | 1327 | | |
| 27 | 429 | 430 | 430 | 429 | 433 | 433 | 433 | 431 | 430 | 427 | 423 | 422 | 426 | 426 | 429 | 429 | 429 | 429 | 429 | 429 | 429 | 429 | 429 | 429 | 429 | 429 | 1285 | | |
| 28 | 430 | 429 | 429 | 427 | 426 | 424 | 420 | 422 | 422 | 424 | 429 | 423 | 416 | 413 | 415 | 423 | 426 | 430 | 442 | 443 | 440 | 439 | 439 | 436 | 428 | 428 | 1267 | | |
| 29 | 430 | 432 | 430 | 429 | 428 | 426 | 429 | 429 | 426 | 426 | 426 | 426 | 430 | 427 | 429 | 433 | 429 | 430 | 435 | 442 | 439 | 436 | 432 | 417 | 430 | 430 | 1319 | | |
| 30 | 422 | 424 | 415 | 403 | 405 | 410 | 416 | 419 | 420 | 424 | 426 | 426 | 429 | 425 | 430 | 436 | 435 | 433 | 432 | 433 | 436 | 425 | 401 | 423 | 423 | 423 | 1161 | | |
| Mean | 418 | 421 | 420 | 421 | 423 | 424 | 426 | 427 | 425 | 424 | 422 | 420 | 418 | 421 | 426 | 431 | 435 | 437 | 438 | 441 | 439 | 436 | 431 | 425 | 427 | 427 | 427 | | |
| Sum 12,000y+ | 542 | 633 | 600 | 642 | 700 | 730 | 769 | 797 | 753 | 715 | 671 | 597 | 553 | 623 | 778 | 923 | 1038 | 1103 | 1149 | 1230 | 1171 | 1084 | 937 | 756 | | | Grand Total 307,494 | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

4 LERWICK

JUNE 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph house °C |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 d | 6221 0010 | 12 | 6221 0010 | 12 | 5120 0000 | 8 | 5220 0000 | 9 | 2 | 16.0 |
| 2 d | 1012 3321 | 13 | 1002 3321 | 12 | 0011 1211 | 7 | 0001 1211 | 6 | 1 | 15.3 |
| 3 | 1011 1321 | 10 | 1001 1321 | 9 | 0010 0211 | 6 | 1000 0211 | 5 | 1 | 15.7 |
| 4 | 1200 1201 | 7 | 1200 1200 | 6 | 0200 0001 | 3 | 0100 0000 | 1 | 1 | 15.4 |
| 5 | 2111 2110 | 9 | 1111 2110 | 8 | 2110 0000 | 4 | 1000 0000 | 1 | 1 | 15.5 |
| 6 | 2100 2101 | 7 | 1100 2101 | 6 | 2100 0000 | 3 | 1010 1000 | 3 | 1 | 15.9 |
| 7 | 1211 2211 | 11 | 1200 2211 | 9 | 0211 0110 | 6 | 0311 1110 | 8 | 1 | 15.7 |
| 8 | 0112 2100 | 7 | 0001 2100 | 4 | 0112 0000 | 4 | 0000 1000 | 1 | 1 | 16.1 |
| 9 q | 0000 1111 | 4 | 0000 1100 | 2 | 0000 0011 | 2 | 0000 0000 | 0 | 0 | 15.9 |
| 10 q | 1010 0100 | 3 | 1000 0100 | 2 | 1110 0001 | 4 | 1000 0000 | 1 | 1 | 15.9 |
| 11 q | 0000 0020 | 2 | 0000 0020 | 2 | 0000 0010 | 1 | 0000 0000 | 0 | 0 | 16.0 |
| 12 | 0212 3112 | 12 | 0112 3112 | 11 | 0210 1001 | 5 | 0000 1100 | 2 | 1 | 16.9 |
| 13 | 1110 0101 | 5 | 1000 0100 | 2 | 1110 0001 | 4 | 1000 0000 | 1 | 1 | 17.8 |
| 14 | 1010 0012 | 5 | 0000 0012 | 3 | 1010 0012 | 5 | 1000 0000 | 1 | 1 | 19.3 |
| 15 | 1111 1022 | 9 | 1001 1011 | 5 | 1110 0022 | 7 | 0000 0002 | 2 | 1 | 18.3 |
| 16 | 2111 1222 | 12 | 2001 1220 | 8 | 2110 0012 | 7 | 2000 0002 | 4 | 1 | 19.0 |
| 17 | 0100 1111 | 5 | 0000 1111 | 4 | 0100 0011 | 3 | 0000 0010 | 3 | 1 | 18.3 |
| 18 q | 0100 0010 | 2 | 0000 0010 | 1 | 0100 0000 | 1 | 0000 0000 | 0 | 0 | 18.3 |
| 19 | 0000 3221 | 8 | 0000 3221 | 8 | 0000 2111 | 5 | 0000 2110 | 4 | 1 | 18.3 |
| 20 | 1111 2320 | | | | | | | | | |

GEO MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

1 LERWICK (H)

14,000 γ (0.14 CGS unit) +

JULY 1966

| | Hour | GMT | 14,000 γ (0.14 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 15,000 γ + |
|--------------------------|------|-----|-----------------------------------|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------------------------|--------------------------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000 γ + | |
| 1 | 670 | 678 | 675 | 679 | 675 | 668 | 669 | 672 | 662 | 643 | 645 | 646 | 659 | 682 | 692 | 692 | 701 | 702 | 708 | 703 | 699 | 692 | 691 | 685 | 679 | 1288 | |
| 2 | 683 | 679 | 681 | 683 | 682 | 678 | 675 | 668 | 665 | 659 | 652 | 653 | 665 | 678 | 692 | 699 | 702 | 710 | 708 | 701 | 694 | 692 | 696 | 689 | 683 | 1384 | |
| 3 | 683 | 685 | 679 | 676 | 671 | 680 | 676 | 666 | 656 | 643 | 649 | 649 | 659 | 668 | 679 | 689 | 697 | 695 | 705 | 708 | 698 | 694 | 689 | 685 | 678 | 1279 | |
| 4 | 685 | 685 | 685 | 684 | 683 | 682 | 681 | 675 | 665 | 656 | 660 | 649 | 670 | 656 | 685 | 718 | 701 | 738 | 702 | 705 | 708 | 695 | 688 | 660 | 684 | 1416 | |
| 5 | 674 | 672 | 687 | 690 | 679 | 684 | 681 | 672 | 652 | 645 | 648 | 656 | 662 | 674 | 684 | 685 | 695 | 701 | 707 | 702 | 697 | 694 | 691 | 680 | 1309 | | |
| 6 | 688 | 687 | 684 | 687 | 688 | 688 | 681 | 677 | 665 | 651 | 635 | 635 | 648 | 652 | 675 | 687 | 694 | 697 | 698 | 695 | 691 | 690 | 688 | 678 | 1279 | | |
| 7 q | 685 | 683 | 681 | 685 | 686 | 684 | 678 | 668 | 658 | 644 | 639 | 641 | 645 | 654 | 664 | 675 | 681 | 695 | 701 | 704 | 701 | 704 | 702 | 678 | 1262 | | |
| 8 r | 703 | 696 | 706 | 711 | 711 | 702 | 668 | 668 | 653 | 645 | 659 | 661 | 665 | 684 | 683 | 717 | 718 | 740 | 739 | 722 | 717 | 711 | 671 | 633 | 691 | 1583 | |
| 9 d | 556 | 615 | 597 | 518 | 486 | 556 | 511 | 535 | 591 | 648 | 661 | 638 | 645 | 658 | 678 | 707 | 727 | 730 | 721 | 706 | 685 | 674 | 669 | 633 | 186 | | |
| 10 d | 655 | 637 | 653 | 654 | 588 | 540 | 571 | 620 | 654 | 648 | 634 | 615 | 640 | 672 | 680 | 674 | 691 | 702 | 693 | 690 | 697 | 677 | 651 | 635 | | | |
| 11 | 670 | 655 | 656 | 659 | 661 | 667 | 661 | 667 | 663 | 654 | 647 | 647 | 654 | 664 | 677 | 683 | 696 | 695 | 693 | 689 | 690 | 692 | 693 | 691 | 672 | 1124 | |
| 12 d | 650 | 656 | 666 | 644 | 614 | 666 | 657 | 649 | 622 | 612 | 614 | 614 | 642 | 654 | 681 | 682 | 679 | 682 | 685 | 688 | 685 | 682 | 678 | 658 | 784 | | |
| 13 q | 683 | 679 | 677 | 676 | 675 | 669 | 663 | 659 | 649 | 644 | 645 | 648 | 656 | 674 | 672 | 682 | 686 | 692 | 697 | 693 | 685 | 680 | 673 | 1160 | | | |
| 14 q | 682 | 681 | 681 | 685 | 686 | 681 | 676 | 669 | 663 | 657 | 650 | 645 | 654 | 666 | 671 | 681 | 686 | 698 | 707 | 701 | 699 | 693 | 690 | 689 | 679 | 1291 | |
| 15 | 686 | 685 | 687 | 689 | 692 | 688 | 679 | 670 | 663 | 662 | 661 | 656 | 659 | 666 | 680 | 707 | 705 | 709 | 701 | 718 | 719 | 698 | 699 | 698 | 687 | 1477 | |
| 16 | 695 | 695 | 692 | 688 | 687 | 687 | 676 | 662 | 655 | 646 | 643 | 649 | 664 | 679 | 692 | 699 | 716 | 712 | 707 | 707 | 701 | 695 | 682 | 684 | 1421 | | |
| 17 | 689 | 683 | 669 | 663 | 689 | 687 | 679 | 671 | 654 | 638 | 649 | 649 | 668 | 688 | 689 | 703 | 702 | 705 | 713 | 715 | 708 | 691 | 685 | 683 | 682 | 1364 | |
| 18 q | 683 | 683 | 685 | 687 | 679 | 671 | 666 | 668 | 659 | 646 | 636 | 639 | 652 | 656 | 676 | 691 | 702 | 706 | 710 | 704 | 695 | 689 | 686 | 685 | 677 | 1254 | |
| 19 | 685 | 686 | 689 | 690 | 686 | 685 | 679 | 669 | 659 | 657 | 655 | 654 | 666 | 679 | 692 | 698 | 683 | 695 | 706 | 710 | 695 | 692 | 691 | 683 | 1393 | | |
| 20 | 690 | 685 | 684 | 690 | 691 | 689 | 683 | 684 | 677 | 665 | 653 | 661 | 661 | 664 | 678 | 701 | 711 | 705 | 710 | 698 | 692 | 694 | 689 | 684 | 1414 | | |
| 21 d | 689 | 681 | 645 | 681 | 652 | 687 | 688 | 675 | 655 | 645 | 639 | 639 | 652 | 672 | 672 | 685 | 728 | 730 | 744 | 727 | 698 | 688 | 678 | 678 | 682 | 1376 | |
| 22 | 657 | 632 | 660 | 674 | 673 | 667 | 671 | 667 | 658 | 647 | 639 | 645 | 651 | 669 | 681 | 691 | 697 | 714 | 697 | 712 | 711 | 689 | 682 | 678 | 673 | 1162 | |
| 23 | 677 | 684 | 684 | 681 | 685 | 684 | 688 | 660 | 657 | 649 | 652 | 663 | 671 | 681 | 690 | 697 | 714 | 693 | 697 | 703 | 695 | 687 | 685 | 682 | 1364 | | |
| 24 | 682 | 689 | 684 | 674 | 671 | 676 | 668 | 668 | 667 | 656 | 656 | 658 | 662 | 684 | 691 | 685 | 695 | 694 | 695 | 690 | 690 | 684 | 680 | 1310 | | | |
| 25 q | 683 | 684 | 684 | 685 | 685 | 681 | 675 | 669 | 663 | 661 | 660 | 662 | 668 | 669 | 674 | 677 | 688 | 697 | 701 | 700 | 704 | 693 | 688 | 688 | 681 | 1339 | |
| 26 | 681 | 681 | 687 | 685 | 694 | 692 | 682 | 673 | 665 | 656 | 654 | 659 | 658 | 659 | 658 | 675 | 685 | 705 | 720 | 720 | 705 | 695 | 686 | 678 | 681 | 1353 | |
| 27 | 683 | 679 | 679 | 681 | 683 | 689 | 688 | 679 | 669 | 658 | 653 | 653 | 666 | 699 | 680 | 646 | 696 | 691 | 699 | 702 | 699 | 693 | 690 | 693 | 682 | 1378 | |
| 28 | 682 | 676 | 672 | 692 | 703 | 689 | 676 | 664 | 666 | 655 | 655 | 646 | 672 | 677 | 668 | 683 | 698 | 715 | 709 | 709 | 709 | 696 | 685 | 684 | 682 | 1372 | |
| 29 | 676 | 675 | 691 | 689 | 692 | 694 | 689 | 679 | 671 | 659 | 653 | 656 | 660 | 669 | 677 | 685 | 693 | 699 | 705 | 710 | 713 | 698 | 693 | 688 | 684 | 1414 | |
| 30 | 686 | 686 | 689 | 682 | 675 | 676 | 667 | 652 | 656 | 649 | 646 | 656 | 656 | 665 | 679 | 690 | 697 | 701 | 698 | 693 | 696 | 689 | 679 | 1301 | | | |
| 31 | 687 | 686 | 682 | 685 | 686 | 683 | 679 | 667 | 651 | 643 | 632 | 639 | 653 | 669 | 689 | 670 | 693 | 712 | 713 | 706 | 693 | 692 | 700 | 689 | 679 | 1299 | |
| Mean | 677 | 676 | 676 | 676 | 672 | 673 | 668 | 664 | 658 | 651 | 648 | 647 | 658 | 670 | 679 | 687 | 697 | 705 | 706 | 705 | 700 | 693 | 688 | 683 | 677 | | |
| Sum 20,000 γ + | 978 | 958 | 968 | 954 | 819 | 869 | 697 | 582 | 399 | 179 | 76 | 62 | 395 | 763 | 1061 | 1313 | 1598 | 1845 | 1883 | 1865 | 1699 | 1490 | 1340 | 1178 | | Grand Total 503,971 | |

GEO MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

2 LERWICK (D)

9° +

JULY 1966

| | Hour | GMT | 9° + | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 300·0° + |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-----------------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 300·0° + | |
| 1 | 12·2 | 12·5 | 13·6 | 13·5 | 12·8 | 11·9 | 11·8 | 11·9 | 12·6 | 15·5 | 19·2 | 23·1 | 24·9 | 26·6 | 25·4 | 23·4 | 22·5 | 22·2 | 21·6 | 19·4 | 19·3 | 19·3 | 18·6 | 18·0 | 18·0 | 131·8 | |
| 2 | 16·1 | 15·5 | 14·6 | 13·7 | 12·8 | 11·8 | 11·9 | 12·7 | 13·8 | 14·7 | 17·4 | 21·2 | 24·4 | 26·7 | 26·7 | 24·3 | 22·4 | 20·3 | 19·3 | 18·4 | 19·2 | 19·4 | 15·6 | 12·5 | 17·7 | 125·4 | |
| 3 | 14·7 | 16·8 | 16·4 | 13·8 | 14·5 | 13·9 | 11·7 | 11·6 | 11·6 | 14·8 | 17·4 | 21·0 | 23·4 | 24·2 | 24·9 | 23·9 | 22·1 | 21·0 | 20·3 | 19·4 | 18·1 | 16·5 | 17·2 | 17·8 | 126·3 | | |
| 4 | 16·6 | 16·4 | 15·8 | 15·2 | 15·5 | 14·5 | 14·0 | 12·6 | 12·2 | 13·5 | 15·8 | 19·3 | 20·2 | 30·5 | 29·6 | 29·7 | 25·0 | 23·3 | 21·2 | 21·1 | 21·4 | 17·5 | 16·7 | 16·7 | 167·3 | | |
| 5 | 12·8 | 14·6 | 15·2 | 15·0 | 17·8 | 16·0 | 13·0 | 12·0 | 12·7 | 13·8 | 16·4 | 20·3 | 23·8 | 24·0 | 24·0 | 23·2 | 21·1 | 20·3 | 19·4 | 19·3 | 19·3 | 18·6 | 18·0 | 18·0 | 132·5 | | |
| 6 | 18·2 | 19·3 | 19·2 | 15·8 | 14·3 | 12·6 | 12·9 | 12·8 | 13·0 | 14·4 | 16·7 | 20·2 | 22·2 | 22·5 | 21·6 | 21·2 | 20·3 | 19·4 | 19·3 | 19·2 | 18·3 | 17·8 | 18·2 | 18·2 | 136·7 | | |
| 7 q | 19·4 | 18·4 | | | | | | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

17

3 LERWICK (Z)

47,000 (0.47 CGS unit) *

JULY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 9000,+* |
|------------------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|----------------|
| 1 | 389 | 410 | 416 | 420 | 424 | 426 | 419 | 419 | 416 | 416 | 417 | 413 | 413 | 422 | 427 | 434 | 442 | 437 | 437 | 443 | 439 | 433 | 429 | 423 | 423 | 423 | 1164 | |
| 2 | 423 | 429 | 429 | 430 | 430 | 429 | 430 | 429 | 429 | 427 | 421 | 415 | 408 | 407 | 414 | 423 | 435 | 439 | 438 | 439 | 435 | 427 | 415 | 410 | 425 | 425 | 1211 | |
| 3 | 413 | 420 | 423 | 426 | 427 | 418 | 422 | 425 | 421 | 417 | 415 | 417 | 419 | 418 | 417 | 420 | 426 | 433 | 429 | 433 | 436 | 435 | 430 | 427 | 424 | 424 | 1167 | |
| 4 | 425 | 425 | 426 | 429 | 429 | 429 | 427 | 424 | 423 | 415 | 405 | 405 | 403 | 412 | 415 | 423 | 452 | 458 | 479 | 458 | 442 | 439 | 392 | 386 | 426 | 426 | 1221 | |
| 5 | 386 | 409 | 413 | 420 | 428 | 426 | 429 | 432 | 433 | 425 | 416 | 411 | 413 | 413 | 423 | 430 | 443 | 448 | 445 | 441 | 438 | 435 | 431 | 428 | 426 | 426 | 1216 | |
| 6 | 428 | 429 | 424 | 430 | 430 | 432 | 431 | 431 | 432 | 433 | 430 | 427 | 423 | 426 | 427 | 432 | 436 | 436 | 436 | 433 | 433 | 430 | 428 | 430 | 430 | 430 | 1330 | |
| 7 q | 426 | 424 | 425 | 427 | 431 | 430 | 427 | 426 | 426 | 427 | 425 | 419 | 416 | 415 | 417 | 420 | 423 | 427 | 428 | 429 | 426 | 425 | 421 | 425 | 425 | 425 | 1188 | |
| 8 d | 423 | 422 | 420 | 417 | 410 | 416 | 423 | 416 | 410 | 412 | 412 | 422 | 423 | 426 | 432 | 429 | 442 | 456 | 461 | 457 | 448 | 429 | 363 | 308 | 420 | 420 | 1077 | |
| 9 d | 245 | 218 | 235 | 218 | 277 | 311 | 360 | 379 | 400 | 453 | 459 | 472 | 475 | 453 | 446 | 460 | 475 | 466 | 465 | 467 | 458 | 450 | 443 | 424 | 396 | 509 | 509 | |
| 10 d | 362 | 344 | 371 | 390 | 364 | 301 | 320 | 357 | 400 | 426 | 442 | 472 | 455 | 433 | 445 | 447 | 436 | 433 | 443 | 458 | 453 | 438 | 426 | 419 | 410 | 410 | 835 | |
| 11 | 426 | 420 | 389 | 392 | 404 | 418 | 420 | 430 | 435 | 442 | 442 | 433 | 425 | 423 | 423 | 426 | 426 | 429 | 430 | 433 | 433 | 431 | 430 | 410 | 424 | 424 | 1170 | |
| 12 d | 360 | 333 | 357 | 362 | 327 | 324 | 344 | 364 | 399 | 428 | 440 | 441 | 439 | 438 | 433 | 436 | 431 | 435 | 436 | 434 | 433 | 436 | 438 | 438 | 404 | 404 | 706 | |
| 13 q | 434 | 433 | 432 | 428 | 428 | 433 | 433 | 432 | 429 | 428 | 432 | 433 | 431 | 429 | 428 | 426 | 426 | 427 | 426 | 427 | 429 | 432 | 434 | 434 | 430 | 430 | 1324 | |
| 14 q | 432 | 431 | 430 | 431 | 430 | 429 | 428 | 429 | 426 | 423 | 417 | 407 | 408 | 413 | 427 | 435 | 432 | 432 | 436 | 435 | 434 | 434 | 428 | 428 | 428 | 428 | 1263 | |
| 15 | 434 | 435 | 433 | 430 | 428 | 428 | 431 | 430 | 425 | 421 | 419 | 419 | 421 | 423 | 419 | 427 | 432 | 432 | 428 | 435 | 446 | 436 | 432 | 429 | 429 | 429 | 1299 | |
| 16 | 433 | 434 | 432 | 432 | 429 | 423 | 426 | 431 | 429 | 420 | 419 | 420 | 419 | 419 | 432 | 440 | 435 | 428 | 436 | 443 | 442 | 440 | 430 | 413 | 429 | 429 | 1305 | |
| 17 | 401 | 403 | 412 | 369 | 377 | 398 | 404 | 413 | 420 | 422 | 423 | 419 | 420 | 425 | 431 | 430 | 441 | 447 | 453 | 451 | 445 | 446 | 436 | 437 | 422 | 422 | 1125 | |
| 18 q | 436 | 437 | 437 | 434 | 435 | 435 | 429 | 428 | 429 | 428 | 425 | 424 | 425 | 431 | 436 | 437 | 447 | 445 | 441 | 436 | 434 | 434 | 434 | 434 | 434 | 434 | 1421 | |
| 19 | 434 | 435 | 437 | 438 | 436 | 434 | 437 | 437 | 433 | 429 | 428 | 426 | 427 | 431 | 434 | 446 | 460 | 453 | 446 | 443 | 442 | 438 | 435 | 432 | 437 | 437 | 1491 | |
| 20 | 428 | 427 | 432 | 435 | 436 | 433 | 426 | 421 | 421 | 418 | 418 | 414 | 416 | 423 | 426 | 430 | 433 | 443 | 448 | 447 | 446 | 439 | 426 | 395 | 428 | 428 | 1281 | |
| 21 d | 401 | 389 | 347 | 335 | 362 | 401 | 423 | 430 | 430 | 430 | 428 | 422 | 418 | 424 | 437 | 439 | 440 | 461 | 458 | 462 | 460 | 446 | 417 | 415 | 420 | 420 | 1075 | |
| 22 | 384 | 299 | 361 | 411 | 428 | 437 | 435 | 438 | 441 | 439 | 434 | 429 | 426 | 426 | 431 | 434 | 439 | 440 | 447 | 445 | 447 | 442 | 434 | 431 | 424 | 424 | 1178 | |
| 23 | 425 | 421 | 423 | 426 | 421 | 423 | 425 | 425 | 425 | 422 | 420 | 422 | 427 | 427 | 426 | 426 | 432 | 442 | 441 | 442 | 441 | 436 | 429 | 429 | 429 | 429 | 1289 | |
| 24 | 424 | 403 | 404 | 411 | 419 | 419 | 424 | 424 | 422 | 424 | 423 | 424 | 422 | 421 | 427 | 428 | 427 | 429 | 431 | 432 | 434 | 432 | 431 | 423 | 423 | 423 | 1160 | |
| 25 q | 428 | 429 | 428 | 429 | 429 | 430 | 431 | 428 | 417 | 413 | 414 | 419 | 424 | 427 | 429 | 429 | 431 | 435 | 437 | 440 | 436 | 433 | 428 | 428 | 428 | 428 | 1281 | |
| 26 | 431 | 427 | 412 | 409 | 411 | 417 | 423 | 430 | 430 | 430 | 428 | 424 | 424 | 422 | 424 | 427 | 434 | 436 | 443 | 443 | 443 | 442 | 430 | 427 | 427 | 427 | 1242 | |
| 27 | 414 | 418 | 422 | 423 | 423 | 423 | 421 | 418 | 415 | 417 | 419 | 418 | 417 | 421 | 439 | 446 | 430 | 436 | 436 | 436 | 433 | 426 | 426 | 426 | 426 | 426 | 1230 | |
| 28 | 432 | 431 | 419 | 361 | 330 | 363 | 384 | 396 | 407 | 417 | 426 | 428 | 426 | 426 | 443 | 452 | 459 | 461 | 451 | 454 | 447 | 446 | 443 | 435 | 426 | 422 | 4137 | |
| 29 | 422 | 404 | 383 | 411 | 421 | 423 | 424 | 428 | 429 | 425 | 423 | 422 | 422 | 425 | 425 | 429 | 430 | 420 | 429 | 420 | 429 | 430 | 430 | 430 | 430 | 430 | 1153 | |
| 30 | 432 | 432 | 432 | 432 | 434 | 428 | 428 | 429 | 429 | 427 | 421 | 423 | 416 | 416 | 421 | 424 | 429 | 435 | 438 | 432 | 432 | 429 | 429 | 429 | 429 | 429 | 1285 | |
| 31 | 430 | 432 | 432 | 431 | 431 | 432 | 430 | 429 | 427 | 419 | 416 | 416 | 416 | 421 | 426 | 435 | 445 | 446 | 449 | 448 | 444 | 435 | 414 | 405 | 430 | 430 | 1309 | |
| Mean | 412 | 407 | 408 | 408 | 409 | 412 | 417 | 420 | 423 | 425 | 425 | 424 | 423 | 424 | 428 | 433 | 437 | 440 | 442 | 442 | 440 | 437 | 427 | 420 | 424 | 424 | Grand Total 315,642 | |
| Sum 12,000,+* | 761 | 603 | 638 | 640 | 682 | 768 | 910 | 1032 | 1125 | 1179 | 1169 | 1155 | 1108 | 1144 | 1273 | 1412 | 1556 | 1643 | 1699 | 1693 | 1642 | 1536 | 1245 | 1029 | | | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

JULY 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetog- raph house °C. |
|--------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|--|
| 1 | 2011 1110 | 7 | 1001 1110 | 5 | 2010 0010 | 4 | 3100 0100 | 5 | 1 | 16.0 |
| 2 | 1000 0212 | 6 | 0000 0211 | 4 | 1000 0002 | 3 | 0000 0000 | 0 | 1 | 15.5 |
| 3 | 2111 1110 | 8 | 0101 1110 | 5 | 2110 0110 | 5 | 0100 0100 | 2 | 1 | 15.3 |
| 4 | 0002 3433 | 15 | 0002 3433 | 15 | 0001 1212 | 7 | 0000 1333 | 10 | 1 | 15.7 |
| 5 | 2210 1120 | 9 | 2110 1020 | 7 | 2210 0110 | 7 | 3100 0000 | 4 | 1 | 15.8 |
| 6 | 1100 1010 | 4 | 0000 1010 | 2 | 1100 0000 | 2 | 0000 0000 | 0 | 0 | 15.6 |
| 7 q | 1000 0001 | 2 | 0000 0001 | 1 | 1000 0001 | 2 | 0000 0000 | 0 | 0 | 15.3 |
| 8 d | 1332 2335 | 22 | 1132 2335 | 20 | 1331 1124 | 16 | 0121 0225 | 13 | 1 | 15.6 |
| 9 d | 5553 3331 | 28 | 5553 3331 | 28 | 5441 1211 | 19 | 4543 2212 | 24 | 2 | 16.0 |
| 10 d | 3543 3222 | 24 | 3543 3222 | 24 | 3442 1112 | 18 | 3443 3312 | 21 | 2 | 15.6 |
| 11 | 2210 1113 | 11 | 1110 1112 | 8 | 2210 0103 | 9 | 2210 0003 | 8 | 1 | 15.5 |
| 12 d | 3432 3121 | 19 | 3432 3120 | 18 | 3321 1111 | 13 | 3321 1000 | 11 | 1 | 15.5 |
| 13 q | 1110 1000 | 4 | 0000 1000 | 1 | 1110 0000 | 3 | 0000 0000 | 0 | 0 | 15.7 |
| 14 q | 0000 0120 | 4 | 0000 0120 | 3 | 0000 0000 | 1 | 0000 0100 | 1 | 0 | 15.8 |
| 15 | 0000 1222 | 7 | 0000 1222 | 7 | 0000 0122 | 5 | 0000 0012 | 3 | 1 | 15.3 |
| 16 | 1111 1223 | 12 | 1011 1221 | 9 | 1111 0113 | 9 | 0000 1202 | 5 | 1 | 15.1 |
| 17 | 3322 1222 | 17 | 3322 1211 | 15 | 3321 1122 | 15 | 2310 0111 | 9 | 1 | 15.3 |
| 18 q</ | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

1 LERWICK (H)

14,000 γ (0·14 CGS unit) +

AUGUST 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000 γ +* | |
|--------------------------|------|-----|------|-----|-----|------|------|------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------------------|------|
| 1 | | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 682 | 1369 |
| 2 q | | | 694 | 690 | 695 | 693 | 679 | 681 | 678 | 671 | 662 | 652 | 646 | 642 | 649 | 665 | 676 | 693 | 702 | 714 | 711 | 707 | 701 | 692 | 688 | 688 | 688 | 682 | 1250 |
| 3 | | | 679 | 682 | 682 | 686 | 686 | 681 | 673 | 665 | 659 | 652 | 646 | 642 | 651 | 665 | 678 | 688 | 693 | 695 | 694 | 691 | 688 | 688 | 691 | 677 | 1373 | | |
| 4 | | | 695 | 698 | 695 | 695 | 695 | 686 | 676 | 672 | 668 | 658 | 645 | 648 | 661 | 691 | 715 | 703 | 682 | 688 | 690 | 683 | 682 | 682 | 681 | 682 | 682 | 1277 | |
| 5 | | | 682 | 682 | 685 | 688 | 683 | 679 | 678 | 676 | 664 | 654 | 645 | 645 | 664 | 672 | 679 | 678 | 685 | 693 | 695 | 701 | 692 | 688 | 688 | 671 | 678 | 1289 | |
| 6 | | | 674 | 681 | 681 | 681 | 677 | 673 | 674 | 663 | 636 | 655 | 657 | 649 | 658 | 680 | 701 | 726 | 707 | 694 | 697 | 688 | 688 | 684 | 678 | 679 | 676 | 1233 | |
| 7 | | | 678 | 687 | 687 | 678 | 683 | 684 | 678 | 671 | 661 | 654 | 639 | 639 | 644 | 658 | 683 | 686 | 695 | 695 | 697 | 691 | 697 | 685 | 681 | 682 | 676 | 1264 | |
| 8 | | | 693 | 674 | 680 | 680 | 678 | 681 | 677 | 672 | 664 | 647 | 642 | 647 | 658 | 671 | 678 | 684 | 691 | 696 | 697 | 696 | 691 | 687 | 687 | 678 | 678 | 1370 | |
| 9 | | | 681 | 679 | 682 | 686 | 687 | 686 | 681 | 674 | 662 | 645 | 647 | 648 | 660 | 679 | 683 | 694 | 695 | 699 | 709 | 711 | 698 | 694 | 696 | 694 | 682 | 1371 | |
| 10 | | | 689 | 677 | 686 | 689 | 688 | 680 | 672 | 676 | 672 | 661 | 657 | 651 | 656 | 668 | 675 | 696 | 707 | 693 | 703 | 712 | 701 | 686 | 686 | 690 | 682 | 1384 | |
| 11 | | | 690 | 689 | 680 | 688 | 683 | 692 | 693 | 689 | 680 | 667 | 647 | 650 | 651 | 666 | 675 | 699 | 689 | 688 | 697 | 701 | 696 | 696 | 692 | 686 | 683 | 1384 | |
| 12 | | | 686 | 684 | 686 | 680 | 667 | 685 | 679 | 670 | 664 | 659 | 650 | 650 | 666 | 676 | 683 | 688 | 703 | 722 | 719 | 703 | 695 | 693 | 653 | 646 | 679 | 1304 | |
| 13 | | | 659 | 669 | 677 | 690 | 695 | 691 | 683 | 658 | 647 | 660 | 670 | 655 | 647 | 669 | 675 | 688 | 706 | 706 | 696 | 694 | 699 | 697 | 686 | 680 | 1311 | | |
| 14 | | | 687 | 683 | 677 | 682 | 683 | 672 | 674 | 671 | 663 | 656 | 655 | 654 | 653 | 662 | 673 | 680 | 686 | 702 | 699 | 689 | 688 | 684 | 677 | 677 | 1248 | | |
| 15 | | | 685 | 672 | 677 | 679 | 687 | 695 | 677 | 666 | 656 | 647 | 647 | 650 | 663 | 667 | 675 | 677 | 680 | 685 | 699 | 695 | 693 | 689 | 678 | 678 | 1264 | | |
| 16 q | | | 688 | 681 | 682 | 690 | 687 | 684 | 679 | 670 | 662 | 652 | 649 | 656 | 664 | 676 | 684 | 687 | 687 | 686 | 691 | 694 | 693 | 692 | 693 | 693 | 680 | 1321 | |
| 17 q | | | 692 | 687 | 686 | 686 | 688 | 684 | 682 | 673 | 660 | 643 | 637 | 643 | 659 | 676 | 693 | 693 | 700 | 704 | 694 | 695 | 690 | 690 | 680 | 681 | 1338 | | |
| 18 | | | 689 | 689 | 689 | 689 | 690 | 690 | 686 | 676 | 664 | 647 | 636 | 649 | 651 | 676 | 694 | 690 | 700 | 717 | 725 | 706 | 692 | 694 | 693 | 689 | 684 | 1421 | |
| 19 d | | | 686 | 688 | 687 | 672 | 665 | 667 | 673 | 669 | 656 | 641 | 613 | 617 | 629 | 680 | 689 | 698 | 715 | 737 | 710 | 685 | 683 | 682 | 682 | 675 | 1206 | | |
| 20 | | | 682 | 676 | 668 | 676 | 681 | 674 | 664 | 648 | 646 | 640 | 640 | 653 | 665 | 676 | 680 | 692 | 698 | 691 | 692 | 689 | 689 | 685 | 701 | 673 | 1155 | | |
| 21 | | | 679 | 674 | 677 | 676 | 677 | 672 | 665 | 658 | 652 | 647 | 651 | 664 | 674 | 682 | 680 | 685 | 691 | 690 | 690 | 688 | 685 | 688 | 676 | 676 | 1213 | | |
| 22 q | | | 685 | 680 | 678 | 678 | 681 | 680 | 675 | 666 | 655 | 648 | 651 | 654 | 660 | 669 | 681 | 692 | 701 | 680 | 691 | 695 | 694 | 688 | 687 | 678 | 678 | 1264 | |
| 23 d | | | 683 | 697 | 689 | 685 | 688 | 697 | 688 | 681 | 671 | 641 | 644 | 636 | 643 | 658 | 671 | 697 | 692 | 731 | 707 | 702 | 697 | 688 | 671 | 668 | 680 | 1325 | |
| 24 d | | | 674 | 642 | 677 | 684 | 682 | 675 | 668 | 661 | 655 | 650 | 662 | 676 | 650 | 666 | 680 | 681 | 689 | 696 | 701 | 694 | 694 | 679 | 685 | 675 | 1209 | | |
| 25 | | | 677 | 670 | 677 | 684 | 680 | 677 | 673 | 664 | 655 | 643 | 644 | 644 | 663 | 673 | 674 | 698 | 701 | 704 | 703 | 703 | 700 | 690 | 680 | 678 | 678 | 1281 | |
| 26 | | | 683 | 679 | 674 | 664 | 685 | 681 | 668 | 662 | 657 | 651 | 657 | 658 | 664 | 671 | 680 | 687 | 693 | 703 | 697 | 701 | 696 | 687 | 686 | 683 | 678 | 1267 | |
| 27 | | | 680 | 687 | 683 | 682 | 674 | 674 | 666 | 659 | 651 | 640 | 648 | 658 | 675 | 677 | 692 | 700 | 701 | 696 | 701 | 697 | 691 | 687 | 689 | 679 | 1296 | | |
| 28 q | | | 684 | 682 | 683 | 682 | 680 | 677 | 674 | 665 | 656 | 648 | 648 | 650 | 660 | 673 | 683 | 702 | 704 | 698 | 700 | 697 | 687 | 690 | 690 | 691 | 679 | 1304 | |
| 29 | | | 681 | 677 | 681 | 683 | 681 | 674 | 664 | 656 | 648 | 644 | 646 | 646 | 664 | 696 | 706 | 701 | 712 | 700 | 700 | 710 | 711 | 710 | 706 | 647 | 683 | 1381 | |
| 30 d | | | 586 | 494 | 494 | 553 | 627 | 658 | 667 | 657 | 650 | 636 | 625 | 650 | 649 | 693 | 694 | 684 | 740 | 864 | 989 | 854 | 670 | 331 | 596 | 661 | 655 | 722 | |
| 31 d | | | 627 | 628 | 664 | 664 | 658 | 654 | 654 | 650 | 641 | 642 | 644 | 644 | 653 | 660 | 670 | 674 | 678 | 689 | 690 | 684 | 684 | 674 | 691 | 662 | 886 | | |
| Mean | | | 679 | 673 | 676 | 678 | 680 | 680 | 675 | 667 | 659 | 650 | 646 | 648 | 656 | 672 | 683 | 690 | 696 | 705 | 709 | 703 | 693 | 679 | 684 | 683 | 678 | | |
| Sum 20,000 γ + | | | 1037 | 864 | 945 | 1029 | 1083 | 1080 | 930 | 694 | 417 | 153 | 34 | 90 | 338 | 832 | 1162 | 1380 | 1581 | 1844 | 1987 | 1786 | 1487 | 1055 | 1199 | 1173 | | Grand Total 504,180 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

2 LERWICK (D)

9° +

AUGUST 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 300·0°+* |
|-----|------|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----------------|
| 1 | | | 15·1 | 14·5 | 14·7 | 15·2 | 15·4 | 13·8 | 13·0 | 11·3 | 12·4 | 14·8 | 17·5 | 20·2 | 23·2 | 26·0 | 26·7 | 25·0 | 23·0 | 21·1 | 20·7 | 20·3 | 20·7 | 19·4 | 19·4 | 17·4 | 18·4 | 140·8 |
| 2 q | | | 15·1 | 15·1 | 14·8 | 14·7 | 13·5 | 11·9 | 11·8 | 11·2 | 11·4 | 12·7 | 16·4 | 19·3 | 21·4 | 22·9 | 23·3 | 23·1 | 21·3 | 19·5 | 18·4 | 17·7 | 17·7 | 17·9 | 18·2 | 17·9 | 17·0 | 107·2 |
| 3 | | | 17·9 | 17·5 | 15·9 | 14·6 | 12·8 | 11·7 | 10·0 | 9·1 | 11·0 | 13·3 | 17·6 | 22·0 | 25·9 | 29·5 | 29·8 | 29·2 | 22·4 | 19·7 | 19·4 | 18·7 | 18·5 | 17·7 | 17·7 | 18·3 | 139·3 | |
| 4 | | | 16·7 | 16·7 | 16·4 | 15·4 | 13·9 | 12·3 | 10·1 | 10·2 | 11·9 | 14·0 | 18·1 | 20·8 | 24·3 | 25·3 | 25·8 | 25·8 | 24·0 | 22·7 | 21·0 | 19·4 | 19·1 | 18·9 | 18·4 | 17·6 | 122·0 | |
| 5 | | | 16·4 | 16·4 | 16·4 | 14·9 | 12·6 | 12·9 | 11·5 | 9·9 | 12·7 | 14·9 | 17·4 | 21·8 | 23·1 | 26·0 | 26·0 | 25·2 | 19·7 | 20·1 | 20·2 | 20·3 | 19·9 | 19·8 | 18·3 | 18·0 | 132·8 | |
| 6 | | | 18·0 | 17·6 | 11·8 | 11·0 | 9·9 | 9·5 | 11·7 | 11·5 | 12·1 | 14·2 | 17·9 | 20·5 | 23·5 | 26·6 | 26·0 | 24·0 | 21·0 | 21·5 | 21·1 | 20·2 | 18·9 | 15·2 | 18·0 | 17·3 | 116·1 | |
| 7 | | | 14·3 | 13·6 | 16·7 | 12·7 | 14·1 | 12·8 | 10·3 | 10·3 | 11·1 | 13·8 | 15·6 | 18·2 | 22·2 | 24·1 | 24·3 | 23·2 | 21·4 | 20·7 | 19·5 | 19·2 | 19·4 | 18·4 | 18·3 | 17·7</td | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 3 LERWICK (Z) | | | | | | | | | | | | | 47,000γ (0.47 CGS unit) + | | | | | | | | | | | | | AUGUST 1966 | |
|-----------------|--|-----|-----|-----|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|-----|------|------------------------|------|
| | Hour GMT 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | Mean | Sum 9000γ+ | |
| 1 | 407 | 418 | 422 | 427 | 429 | 419 | 420 | 422 | 420 | 415 | 412 | 412 | 414 | 420 | 425 | 427 | 432 | 436 | 439 | 436 | 435 | 435 | 432 | 415 | 424 | 424 | 1169 |
| 2 q | 421 | 428 | 432 | 433 | 434 | 435 | 433 | 431 | 429 | 425 | 422 | 419 | 418 | 419 | 421 | 422 | 429 | 433 | 433 | 433 | 431 | 428 | 428 | 428 | 428 | 428 | 1265 |
| 3 | 426 | 427 | 429 | 431 | 432 | 431 | 428 | 428 | 424 | 420 | 421 | 418 | 411 | 422 | 438 | 464 | 480 | 463 | 445 | 438 | 434 | 432 | 430 | 430 | 433 | 433 | 1402 |
| 4 | 432 | 433 | 433 | 435 | 438 | 437 | 435 | 432 | 429 | 424 | 424 | 421 | 426 | 444 | 459 | 474 | 459 | 443 | 437 | 434 | 440 | 438 | 427 | 419 | 436 | 436 | 1473 |
| 5 | 409 | 416 | 426 | 431 | 433 | 428 | 427 | 428 | 429 | 418 | 420 | 425 | 424 | 431 | 436 | 455 | 475 | 456 | 445 | 440 | 435 | 433 | 429 | 431 | 433 | 433 | 1380 |
| 6 | 427 | 409 | 393 | 403 | 405 | 407 | 414 | 420 | 426 | 428 | 427 | 423 | 417 | 414 | 421 | 437 | 444 | 442 | 442 | 441 | 440 | 439 | 434 | 430 | 424 | 424 | 1183 |
| 7 | 411 | 410 | 401 | 410 | 424 | 430 | 433 | 433 | 432 | 430 | 427 | 425 | 422 | 425 | 426 | 426 | 429 | 434 | 440 | 438 | 437 | 434 | 437 | 433 | 428 | 421 | 1249 |
| 8 | 428 | 428 | 429 | 431 | 431 | 434 | 436 | 438 | 437 | 438 | 432 | 427 | 424 | 425 | 428 | 428 | 431 | 433 | 436 | 440 | 444 | 439 | 429 | 410 | 431 | 431 | 1356 |
| 9 | 399 | 396 | 407 | 419 | 427 | 433 | 432 | 429 | 429 | 428 | 429 | 425 | 422 | 425 | 428 | 433 | 442 | 446 | 438 | 445 | 440 | 437 | 431 | 427 | 427 | 427 | 1257 |
| 10 | 422 | 422 | 415 | 391 | 401 | 406 | 415 | 419 | 420 | 421 | 424 | 428 | 432 | 438 | 453 | 451 | 464 | 455 | 440 | 439 | 439 | 436 | 433 | 421 | 429 | 429 | 1285 |
| 11 | 421 | 428 | 428 | 425 | 414 | 402 | 409 | 418 | 424 | 424 | 425 | 432 | 434 | 442 | 450 | 469 | 469 | 472 | 463 | 463 | 459 | 454 | 434 | 405 | 387 | 433 | 1397 |
| 12 | 371 | 360 | 379 | 381 | 406 | 411 | 420 | 427 | 430 | 426 | 428 | 433 | 443 | 443 | 442 | 444 | 450 | 462 | 448 | 440 | 437 | 417 | 424 | 424 | 424 | 424 | 1165 |
| 13 | 428 | 429 | 412 | 408 | 419 | 428 | 424 | 425 | 425 | 428 | 431 | 431 | 431 | 431 | 434 | 436 | 437 | 442 | 447 | 440 | 437 | 434 | 427 | 431 | 431 | 431 | 1335 |
| 14 | 416 | 406 | 399 | 381 | 375 | 370 | 384 | 394 | 403 | 408 | 416 | 421 | 428 | 433 | 438 | 441 | 442 | 439 | 435 | 435 | 440 | 437 | 435 | 436 | 417 | 1012 | |
| 15 | 436 | 434 | 433 | 435 | 434 | 432 | 431 | 428 | 428 | 429 | 430 | 432 | 437 | 443 | 442 | 441 | 440 | 437 | 434 | 435 | 437 | 428 | 430 | 434 | 434 | 434 | 1414 |
| 16 q | 434 | 428 | 415 | 419 | 426 | 429 | 430 | 428 | 430 | 432 | 428 | 425 | 428 | 431 | 438 | 441 | 444 | 444 | 438 | 436 | 434 | 433 | 431 | 427 | 431 | 431 | 1349 |
| 17 q | 428 | 430 | 434 | 438 | 438 | 441 | 442 | 441 | 437 | 434 | 437 | 434 | 430 | 434 | 444 | 447 | 445 | 448 | 443 | 436 | 432 | 431 | 431 | 437 | 437 | 1485 | |
| 18 | 433 | 433 | 434 | 437 | 439 | 440 | 440 | 455 | 435 | 436 | 435 | 431 | 429 | 421 | 433 | 442 | 446 | 459 | 473 | 481 | 464 | 444 | 435 | 432 | 442 | 1607 | |
| 19 d | 430 | 409 | 403 | 380 | 385 | 420 | 434 | 437 | 436 | 436 | 444 | 450 | 456 | 434 | 442 | 446 | 470 | 510 | 507 | 484 | 455 | 440 | 437 | 429 | 411 | 411 | 1574 |
| 20 | 429 | 433 | 425 | 428 | 440 | 445 | 441 | 437 | 432 | 432 | 432 | 433 | 436 | 441 | 446 | 446 | 446 | 449 | 449 | 445 | 440 | 438 | 413 | 437 | 1500 | | |
| 21 | 408 | 421 | 430 | 435 | 437 | 443 | 444 | 442 | 438 | 437 | 430 | 423 | 421 | 427 | 433 | 440 | 444 | 447 | 450 | 451 | 446 | 441 | 439 | 433 | 436 | 1460 | |
| 22 q | 432 | 432 | 433 | 437 | 440 | 442 | 444 | 444 | 440 | 438 | 434 | 434 | 428 | 425 | 432 | 435 | 442 | 449 | 441 | 439 | 440 | 438 | 443 | 434 | 437 | 1496 | |
| 23 d | 407 | 403 | 423 | 424 | 428 | 425 | 431 | 431 | 429 | 434 | 429 | 429 | 437 | 436 | 440 | 446 | 459 | 480 | 502 | 477 | 451 | 432 | 420 | 367 | 435 | 1440 | |
| 24 d | 391 | 339 | 363 | 419 | 431 | 432 | 441 | 442 | 438 | 430 | 419 | 420 | 428 | 424 | 439 | 445 | 450 | 456 | 452 | 448 | 454 | 434 | 428 | 419 | 427 | 1242 | |
| 25 | 430 | 421 | 409 | 417 | 432 | 439 | 441 | 438 | 436 | 437 | 431 | 431 | 433 | 433 | 435 | 439 | 444 | 449 | 452 | 450 | 441 | 413 | 416 | 428 | 433 | 1395 | |
| 26 | 434 | 428 | 410 | 416 | 419 | 428 | 434 | 434 | 421 | 429 | 422 | 425 | 430 | 431 | 423 | 434 | 438 | 439 | 442 | 442 | 441 | 441 | 429 | 431 | 431 | 1342 | |
| 27 | 437 | 430 | 431 | 434 | 438 | 434 | 437 | 437 | 431 | 425 | 421 | 424 | 425 | 431 | 434 | 434 | 444 | 446 | 446 | 444 | 442 | 439 | 436 | 433 | 435 | 1434 | |
| 28 q | 433 | 437 | 438 | 438 | 439 | 440 | 438 | 438 | 436 | 431 | 431 | 426 | 430 | 429 | 434 | 440 | 446 | 447 | 445 | 444 | 441 | 437 | 436 | 431 | 437 | 1485 | |
| 29 | 432 | 437 | 439 | 440 | 439 | 439 | 439 | 438 | 434 | 431 | 431 | 430 | 429 | 428 | 438 | 438 | 443 | 450 | 447 | 439 | 440 | 439 | 396 | 348 | 432 | 1364 | |
| 30 d | 267 | 185 | 192 | 236 | 300 | 353 | 385 | 385 | 413 | 426 | 436 | 436 | 430 | 424 | 438 | 455 | 441 | 490 | 611 | 565 | 383 | 271 | 345 | 370 | 387 | 290 | |
| 31 d | 344 | 412 | 462 | 462 | 456 | 456 | 455 | 459 | 459 | 454 | 451 | 449 | 451 | 452 | 460 | 465 | 463 | 457 | 453 | 446 | 445 | 443 | 443 | 425 | 347 | 1722 | |
| Mean | 414 | 410 | 412 | 416 | 422 | 426 | 430 | 432 | 431 | 429 | 428 | 425 | 429 | 430 | 437 | 443 | 448 | 452 | 455 | 450 | 440 | 430 | 427 | 419 | 431 | | |
| Sum 12,000γ+ | 823 | 722 | 779 | 901 | 1089 | 1208 | 1321 | 1390 | 1358 | 1313 | 1280 | 1269 | 1296 | 1341 | 1546 | 1740 | 1890 | 2005 | 2097 | 1948 | 1644 | 1343 | 1228 | 996 | | Grand Total 320,527 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

| 4 LERWICK | | | | | | | | | | | | | AUGUST 1966 | |
|-----------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|------|----|-------------|------|
| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph house °C | | | | |
| 1 | 2110 | 1112 | 9 | 2100 | 1111 | 7 | 2010 | 0002 | 5 | 2100 | 0002 | 5 | 1 | 15.5 |
| 2 q | 1000 | 0000 | 1 | 0000 | 0000 | 0 | 1000 | 0000 | 1 | 1000 | 0000 | 1 | 0 | 15.3 |
| 3 | 0112 | 3310 | 11 | 0012 | 3310 | 10 | 0111 | 1200 | 6 | 0001 | 2210 | 6 | 1 | 15.2 |
| 4 | 0012 | 2313 | 12 | 0012 | 2313 | 12 | 0011 | 1102 | 6 | 0001 | 3312 | 10 | 1 | 15.9 |
| 5 | 2122 | 3311 | 15 | 2022 | 3311 | 14 | 0121 | 2201 | 9 | 1001 | 0210 | 5 | 1 | 15.6 |
| 6 | 3211 | 1221 | 13 | 1001 | 1221 | 8 | 3211 | 1221 | 12 | 3110 | 0100 | 6 | 1 | 15.9 |
| 7 | 2100 | 1001 | 5 | 2000 | 1001 | 4 | 2100 | 0001 | 4 | 2200 | 0000 | 4 | 0 | 15.6 |
| 8 | 1011 | 1112 | 8 | 0001 | 1111 | 5 | 1010 | 0112 | 6 | 0000 | 0003 | 3 | 1 | 15.9 |
| 9 | 2110 | 1333 | 14 | 1110 | 1321 | 10 | 2110 | 0133 | 11 | 1100 | 0021 | 5 | 1 | 15.7 |
| 10 | 0221 | 3323 | 16 | 0221 | 3323 | 16 | 0211 | 1223 | 12 | 1221 | 1203 | 12 | 1 | 15.9 |
| 11 | 3222 | 2232 | 18 | 2222 | 2222 | 16 | 3212 | 1131 | 14 | 3321 | 1122 | 15 | 2 | 15.7 |
| 12 | 2210 | 0211 | 9 | 2200 | 0211 | 6 | 2200 | 0111 | 7 | 2200 | 0111 | 6 | 1 | 15.7 |
| 13 | 3221 | 1120 | 12 | 2221 | 1120 | 11 | 3221 | 0010 | 9 | 2330 | 0000 | 8 | 1 | 15. |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | | SEPTEMBER 1966 | | |
|---------------|------|------|--|------|------|------|------|------|------|------|------|------|---------------------------|---|------|------|------|------|------|------|------|------|------|------|------|---------------------|---|---|
| | Hour | GMT | 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | Mean | Sum 11,000γ+ | | |
| 1 d | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 2 | 659 | 655 | 656 | 659 | 664 | 660 | 645 | 638 | 629 | 605 | 612 | 538 | 668 | 658 | 668 | 687 | 704 | 730 | 750 | 703 | 672 | 655 | 651 | 666 | 664 | 4932 | | |
| 3 | 662 | 669 | 663 | 666 | 668 | 662 | 648 | 638 | 629 | 632 | 632 | 347 | 666 | 688 | 695 | 715 | 699 | 692 | 718 | 712 | 694 | 684 | 681 | 672 | 672 | 5132 | | |
| 4 | 675 | 679 | 679 | 681 | 681 | 668 | 666 | 655 | 626 | 591 | 597 | 515 | 661 | 654 | 724 | 956 | 1013 | 1019 | 995 | 641 | 472 | 164 | -420 | 50 | 610 | 3642 | | |
| 5 | -530 | -440 | -302 | 203 | 216 | 306 | 389 | 436 | 519 | 606 | 648 | 677 | 774 | 745 | 669 | 663 | 721 | 754 | 711 | 669 | 652 | 651 | 657 | 653 | 460 | 47 | | |
| 6 | 645 | 640 | 640 | 648 | 651 | 651 | 643 | 636 | 626 | 615 | 611 | 619 | 656 | 675 | 650 | 700 | 684 | 658 | 658 | 658 | 659 | 661 | 672 | 671 | 651 | 4627 | | |
| 7 | 666 | 665 | 633 | 588 | 615 | 644 | 645 | 648 | 638 | 606 | 606 | 613 | 632 | 655 | 655 | 672 | 665 | 669 | 671 | 676 | 671 | 674 | 674 | 675 | 648 | 4554 | | |
| 8 | 672 | 659 | 659 | 668 | 666 | 658 | 658 | 661 | 650 | 636 | 636 | 644 | 648 | 656 | 678 | 698 | 692 | 672 | 681 | 678 | 677 | 661 | 675 | 678 | 665 | 4961 | | |
| 9 | 675 | 674 | 665 | 588 | 668 | 679 | 642 | 628 | 614 | 619 | 587 | 608 | 681 | 683 | 681 | 738 | 734 | 724 | 700 | 671 | 641 | 605 | 645 | 627 | 662 | 4877 | | |
| 10 | 656 | 665 | 656 | 655 | 664 | 655 | 625 | 620 | 621 | 615 | 610 | 620 | 629 | 663 | 661 | 680 | 696 | 686 | 676 | 676 | 679 | 668 | 672 | 652 | 654 | 4700 | | |
| 11 | 646 | 661 | 634 | 640 | 646 | 670 | 661 | 657 | 644 | 633 | 621 | 624 | 644 | 657 | 669 | 684 | 671 | 679 | 689 | 680 | 682 | 689 | 675 | 674 | 660 | 4830 | | |
| 12 | 672 | 671 | 671 | 668 | 667 | 662 | 651 | 641 | 637 | 637 | 644 | 648 | 655 | 663 | 663 | 670 | 673 | 677 | 679 | 677 | 677 | 677 | 677 | 663 | 4908 | | | |
| 13 | 671 | 671 | 671 | 670 | 670 | 667 | 662 | 651 | 641 | 637 | 630 | 645 | 651 | 664 | 677 | 681 | 684 | 686 | 677 | 683 | 683 | 676 | 675 | 667 | 5006 | | | |
| 14 | 679 | 677 | 677 | 671 | 671 | 668 | 663 | 653 | 647 | 650 | 656 | 658 | 667 | 671 | 680 | 674 | 680 | 685 | 682 | 680 | 681 | 682 | 681 | 671 | 5104 | | | |
| 15 | 615 | 660 | 674 | 647 | 658 | 670 | 657 | 651 | 643 | 636 | 648 | 654 | 664 | 666 | 680 | 680 | 677 | 677 | 693 | 699 | 674 | 664 | 657 | 644 | 662 | 4888 | | |
| 16 | 647 | 654 | 657 | 671 | 675 | 671 | 663 | 654 | 647 | 644 | 647 | 654 | 651 | 664 | 667 | 674 | 680 | 680 | 682 | 680 | 678 | 682 | 684 | 686 | 666 | 4992 | | |
| 17 | 673 | 662 | 657 | 657 | 671 | 671 | 670 | 660 | 657 | 649 | 641 | 641 | 651 | 665 | 671 | 674 | 676 | 680 | 681 | 682 | 680 | 679 | 676 | 667 | 5005 | | | |
| 18 | 675 | 676 | 677 | 677 | 674 | 673 | 670 | 660 | 647 | 638 | 646 | 657 | 661 | 664 | 670 | 674 | 680 | 684 | 687 | 691 | 689 | 684 | 684 | 672 | 5122 | | | |
| 19 | 680 | 676 | 682 | 682 | 687 | 685 | 683 | 676 | 667 | 656 | 647 | 643 | 650 | 662 | 663 | 672 | 672 | 680 | 690 | 690 | 683 | 687 | 683 | 670 | 5166 | | | |
| 20 | 675 | 678 | 673 | 666 | 678 | 685 | 686 | 683 | 654 | 642 | 640 | 636 | 636 | 664 | 657 | 676 | 674 | 711 | 698 | 685 | 679 | 672 | 669 | 663 | 670 | 5077 | | |
| 21 | 670 | 675 | 668 | 671 | 688 | 675 | 674 | 669 | 657 | 645 | 637 | 639 | 649 | 645 | 669 | 674 | 678 | 681 | 679 | 679 | 678 | 675 | 675 | 668 | 5029 | | | |
| 22 | 675 | 665 | 672 | 674 | 675 | 672 | 671 | 662 | 653 | 649 | 649 | 652 | 668 | 676 | 679 | 673 | 679 | 672 | 679 | 677 | 678 | 678 | 679 | 670 | 5086 | | | |
| 23 | 678 | 676 | 671 | 672 | 674 | 671 | 667 | 663 | 655 | 661 | 658 | 664 | 669 | 681 | 688 | 681 | 723 | 717 | 785 | 777 | 713 | 681 | 675 | 676 | 687 | 5476 | | |
| 24 | 672 | 672 | 674 | 675 | 671 | 673 | 671 | 661 | 644 | 639 | 645 | 656 | 664 | 668 | 670 | 674 | 676 | 678 | 681 | 680 | 676 | 674 | 674 | 669 | 5049 | | | |
| 25 | 677 | 665 | 670 | 677 | 668 | 681 | 672 | 664 | 661 | 651 | 654 | 660 | 661 | 668 | 670 | 673 | 677 | 678 | 687 | 681 | 680 | 678 | 677 | 670 | 5081 | | | |
| 26 | 672 | 665 | 661 | 667 | 674 | 672 | 668 | 667 | 667 | 645 | 648 | 657 | 651 | 650 | 698 | 697 | 701 | 685 | 687 | 701 | 701 | 675 | 674 | 676 | 673 | 5159 | | |
| 27 | 671 | 643 | 644 | 670 | 664 | 666 | 674 | 671 | 658 | 647 | 657 | 654 | 661 | 667 | 671 | 674 | 672 | 680 | 691 | 682 | 678 | 683 | 678 | 668 | 5034 | | | |
| 28 | 681 | 673 | 663 | 596 | 661 | 670 | 663 | 663 | 658 | 648 | 645 | 648 | 658 | 671 | 677 | 657 | 687 | 678 | 674 | 680 | 694 | 670 | 665 | 4963 | | | | |
| 29 | 660 | 668 | 674 | 667 | 661 | 672 | 672 | 652 | 644 | 641 | 647 | 653 | 658 | 671 | 672 | 683 | 683 | 684 | 674 | 687 | 671 | 674 | 677 | 668 | 5028 | | | |
| 30 | 674 | 673 | 674 | 674 | 678 | 671 | 679 | 665 | 638 | 647 | 650 | 651 | 651 | 659 | 663 | 675 | 684 | 674 | 675 | 678 | 680 | 664 | 663 | 667 | 5017 | | | |
| Mean | 627 | 630 | 632 | 644 | 653 | 657 | 654 | 649 | 641 | 636 | 639 | 644 | 660 | 668 | 674 | 691 | 697 | 699 | 701 | 684 | 672 | 653 | 638 | 650 | 658 | | | |
| Sum 18,000γ+ | 823 | 907 | 973 | 1327 | 1584 | 1699 | 1608 | 1459 | 1242 | 1076 | 1184 | 1312 | 1788 | 2028 | 2213 | 2714 | 2910 | 2959 | 3027 | 2529 | 2155 | 1592 | 1142 | 1489 | | Grand Total 473,740 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | SEPTEMBER 1966 | | |
|---------------|-------|----------|--|-------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|----------------|-------|--|
| | Hour | GMT | 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | Mean | Sum 100·°+ | | |
| 1 d | 14·8 | 13·6 | 13·4 | 14·1 | 13·4 | 13·9 | 14·2 | 17·6 | 19·5 | 19·3 | 20·6 | 21·0 | 23·7 | 24·3 | 20·4 | 20·4 | 19·9 | 20·5 | 8·8 | 7·5 | 12·2 | 11·8 | 9·2 | 16·6 | 16·3 | 290·7 | | |
| 2 | 17·2 | 20·3 | 15·6 | 11·9 | 12·2 | 11·7 | 7·4 | 9·5 | 10·9 | 13·9 | 18·9 | 22·1 | 24·9 | 26·4 | 24·1 | 24·1 | 23·3 | 22·2 | 21·3 | 23·6 | 16·0 | 18·9 | 18·5 | 17·3 | 16·1 | 17·7 | 324·2 | |
| 3 d | 15·5 | 15·6 | 14·1 | 13·9 | 12·3 | 10·9 | 8·9 | 6·7 | 8·3 | 8·6 | 14·9 | 21·3 | 25·4 | 28·6 | 30·1 | 30·5 | 30·5 | 31·5 | 31·5 | 23·3 | 29·3 | 9·6 | 9·4 | 9·4 | 11·1 | 166·8 | | |
| 4 d | -48·5 | -41·6 | -65·8 | -23·2 | 4·4 | 21·6 | 9·2 | 20·2 | 18·2 | 16·4 | 15·6 | 20·4 | 19·2 | 18·3 | 20·6 | 18·0 | 17·5 | 12·0 | 12·9 | 12·9 | 15·3 | 8·9 | 14·8 | 5·5 | 31·1 | | | |
| 5 | 16·5 | 14·1 | 12·6 | 11·4 | 11·2 | 12·0 | 11·9 | 11·1 | 12·0 | 12·1 | 14·7 | 17·2 | 25·6 | 24·2 | 20·1 | 20·1 | 23·1 | 22·0 | 17·5 | 16·9 | 16·6 | 15·9 | 17·0 | 16·4 | 16·6 | 298·9 | | |
| 6 d | 15·5 | 14·7 | 17·9 | 18·9 | 19·3 | 10·2 | 11·2 | 12·1 | 13·0 | 15·3 | 16·5 | 21·3 | 24·0 | 26·7 | 25·1 | 14·8 | 18·2 | 17·7 | 17·6 | 17·2 | 16·4 | 12·6 | 15·8 | 17·6 | 17·1 | 309·6 | | |
| 7 | 16·5 | 16·0 | 19·3 | 16·0 | 11·7 | 10·4 | 11·4 | 10·7 | 11·4 | 12·8 | 17·1 | 22·2 | 25·0 | 23·8 | 22·3 | 23·4 | 17·8 | 18·7 | 18·4 | 16·8 | 14·8 | 19·4 | 15·2 | 18·0 | 17·0 | 309·1 | | |
| 8 d | 17·3 | 16·6</td | | | | | | | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21

3 LERWICK (Z)

47,000 γ (0.47 CGS unit) +

SEPTEMBER 1966

| | Hour | GMT | 47,000 γ (0.47 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | | Sum |
|-----------------------|------|----------|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------------------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 8000 γ + | |
| * | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | |
| 1 d | 134 | 442 | 443 | 444 | 441 | 442 | 447 | 446 | 446 | 451 | 452 | 433 | 438 | 450 | 469 | 470 | 482 | 497 | 476 | 440 | 436 | 417 | 367 | 416 | 445 | 2679 | |
| 2 | 426 | 396 | 415 | 440 | 446 | 452 | 456 | 456 | 455 | 447 | 442 | 435 | 435 | 437 | 450 | 452 | 474 | 467 | 460 | 480 | 469 | 451 | 443 | 443 | 447 | 2736 | |
| 3 d | 440 | 441 | 442 | 444 | 446 | 446 | 441 | 435 | 435 | 437 | 435 | 448 | 431 | 446 | 479 | 600 | 627 | 625 | 575 | 510 | 388 | 260 | 294 | -37 | 437 | 2488 | |
| 4 d | 260 | 179 | 3 | -293 | 213 | 91 | 226 | 311 | 380 | 431 | 473 | 489 | 518 | 535 | 496 | 478 | 482 | 533 | 518 | 507 | 462 | 428 | 422 | 433 | 357 | 575 | |
| 5 | 444 | 439 | 444 | 453 | 459 | 464 | 467 | 467 | 465 | 457 | 449 | 454 | 481 | 483 | 468 | 485 | 480 | 463 | 459 | 455 | 452 | 447 | 449 | 460 | 3051 | | |
| 6 d | 451 | 448 | 429 | 378 | 360 | 396 | 409 | 430 | 439 | 449 | 456 | 449 | 448 | 454 | 454 | 474 | 504 | 475 | 459 | 456 | 452 | 456 | 454 | 447 | 439 | 442 | 2612 |
| 7 | 429 | 431 | 429 | 428 | 436 | 445 | 450 | 449 | 450 | 452 | 448 | 446 | 450 | 466 | 471 | 486 | 527 | 508 | 487 | 484 | 440 | 386 | 421 | 428 | 452 | 2847 | |
| 8 d | 437 | 445 | 442 | 164 | 378 | 404 | 425 | 418 | 422 | 437 | 464 | 477 | 534 | 513 | 500 | 554 | 567 | 568 | 546 | 507 | 488 | 366 | 370 | 328 | 456 | 2954 | |
| 9 | 370 | 416 | 432 | 431 | 432 | 433 | 437 | 452 | 458 | 465 | 471 | 471 | 463 | 463 | 480 | 480 | 501 | 486 | 474 | 466 | 456 | 422 | 402 | 410 | 449 | 2771 | |
| 10 | 333 | 361 | 372 | 378 | 394 | 398 | 424 | 436 | 444 | 447 | 452 | 456 | 450 | 451 | 466 | 481 | 477 | 469 | 460 | 455 | 448 | 432 | 430 | 402 | 430 | 2316 | |
| 11 q | 394 | 422 | 436 | 443 | 445 | 447 | 450 | 447 | 447 | 448 | 449 | 446 | 447 | 448 | 451 | 452 | 452 | 448 | 446 | 446 | 445 | 446 | 444 | 444 | 444 | 2649 | |
| 12 q | 446 | 448 | 449 | 449 | 448 | 449 | 450 | 450 | 449 | 444 | 448 | 444 | 444 | 447 | 450 | 460 | 464 | 456 | 452 | 449 | 447 | 446 | 444 | 443 | 449 | 2776 | |
| 13 q | 443 | 444 | 438 | 442 | 441 | 443 | 444 | 444 | 441 | 437 | 438 | 440 | 440 | 440 | 448 | 454 | 451 | 448 | 448 | 447 | 446 | 445 | 444 | 443 | 444 | 2649 | |
| 14 | 445 | 447 | 448 | 449 | 449 | 448 | 447 | 444 | 438 | 431 | 426 | 428 | 433 | 440 | 444 | 443 | 445 | 447 | 450 | 455 | 451 | 445 | 429 | 433 | 442 | 2615 | |
| 15 | 362 | 412 | 434 | 432 | 423 | 435 | 440 | 439 | 433 | 430 | 430 | 434 | 437 | 443 | 450 | 453 | 455 | 455 | 450 | 451 | 450 | 432 | 308 | 368 | 431 | 2346 | |
| 16 | 381 | 420 | 432 | 441 | 449 | 452 | 451 | 449 | 445 | 443 | 442 | 440 | 443 | 444 | 451 | 451 | 451 | 451 | 456 | 466 | 461 | 453 | 441 | 420 | 443 | 2637 | |
| 17 | 433 | 433 | 403 | 389 | 416 | 434 | 438 | 440 | 437 | 441 | 441 | 439 | 436 | 439 | 446 | 454 | 453 | 450 | 449 | 448 | 446 | 445 | 444 | 444 | 437 | 2498 | |
| 18 q | 444 | 445 | 446 | 447 | 448 | 450 | 451 | 450 | 450 | 443 | 433 | 429 | 429 | 433 | 437 | 441 | 445 | 447 | 447 | 447 | 446 | 447 | 446 | 442 | 443 | 2643 | |
| 19 | 441 | 441 | 439 | 436 | 434 | 441 | 442 | 442 | 444 | 442 | 436 | 432 | 430 | 434 | 439 | 444 | 447 | 449 | 447 | 448 | 451 | 442 | 438 | 393 | 439 | 2532 | |
| 20 | 359 | 396 | 404 | 413 | 421 | 430 | 436 | 441 | 447 | 448 | 441 | 438 | 451 | 471 | 489 | 482 | 466 | 470 | 467 | 464 | 464 | 449 | 434 | 418 | 442 | 2599 | |
| 21 | 414 | 433 | 431 | 408 | 405 | 425 | 437 | 443 | 446 | 445 | 442 | 439 | 442 | 453 | 450 | 448 | 442 | 442 | 446 | 448 | 448 | 448 | 444 | 439 | 430 | 2527 | |
| 22 q | 443 | 444 | 440 | 444 | 442 | 445 | 445 | 447 | 447 | 444 | 443 | 439 | 435 | 440 | 445 | 452 | 452 | 456 | 456 | 456 | 452 | 447 | 447 | 447 | 2728 | | |
| 23 | 444 | 444 | 444 | 438 | 437 | 440 | 442 | 444 | 444 | 442 | 442 | 438 | 430 | 434 | 442 | 447 | 459 | 518 | 574 | 528 | 496 | 476 | 460 | 461 | 3076 | | |
| 24 | 457 | 456 | 451 | 448 | 446 | 446 | 444 | 444 | 447 | 447 | 442 | 442 | 445 | 447 | 444 | 444 | 445 | 447 | 447 | 447 | 447 | 449 | 452 | 447 | 2725 | | |
| 25 | 439 | 445 | 438 | 435 | 428 | 408 | 425 | 435 | 440 | 441 | 439 | 436 | 436 | 441 | 442 | 443 | 444 | 444 | 442 | 442 | 448 | 456 | 459 | 453 | 440 | 2558 | |
| 26 | 435 | 411 | 429 | 442 | 443 | 442 | 443 | 444 | 441 | 444 | 440 | 433 | 441 | 441 | 454 | 501 | 507 | 485 | 486 | 490 | 392 | 401 | 440 | 442 | 447 | 2727 | |
| 27 | 433 | 423 | 397 | 398 | 417 | 414 | 420 | 430 | 437 | 443 | 442 | 444 | 448 | 449 | 454 | 464 | 467 | 457 | 453 | 461 | 464 | 465 | 459 | 452 | 441 | 2591 | |
| 28 | 442 | 448 | 430 | 349 | 313 | 379 | 420 | 438 | 444 | 446 | 447 | 444 | 445 | 451 | 471 | 483 | 486 | 493 | 461 | 450 | 445 | 444 | 428 | 430 | 437 | 2487 | |
| 29 | 439 | 450 | 453 | 447 | 414 | 418 | 432 | 438 | 440 | 442 | 444 | 447 | 448 | 452 | 461 | 456 | 457 | 472 | 475 | 437 | 439 | 441 | 442 | 447 | 2716 | | |
| 30 | 443 | 445 | 442 | 447 | 441 | 412 | 405 | 418 | 433 | 437 | 440 | 444 | 445 | 453 | 460 | 474 | 492 | 473 | 466 | 458 | 450 | 434 | 392 | 397 | 442 | 2601 | |
| Mean | 419 | 423 | 418 | 402 | 419 | 421 | 431 | 438 | 441 | 444 | 445 | 444 | 447 | 453 | 460 | 471 | 476 | 477 | 471 | 465 | 451 | 433 | 428 | 413 | 441 | | |
| Sum 12,000 γ + | 561 | 705 | 535 | 64 | 565 | 629 | 944 | 1127 | 1243 | 1309 | 1346 | 1319 | 1423 | 1594 | 1799 | 2122 | 2280 | 2301 | 2131 | 1962 | 1525 | 1000 | 846 | 379 | | Grand Total 317,709 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

| | | | | | | | | | | | | SEPTEMBER 1966 | | | | | | | | | | | | |
|-----|---------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--------------------------------------|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|
| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph house °C | | | | | | | | | | | | | | |
| 1 d | 1113 3343 | 19 | 1113 3343 | 19 | 0112 2243 | 15 | 1001 2344 | 15 | 1 | 15.9 | | | | | | | | | | | | | | |
| 2 | 2221 2431 | 17 | 2101 2431 | 14 | 2221 1131 | 13 | 3100 1231 | 11 | 1 | 15.8 | | | | | | | | | | | | | | |
| 3 d | 2223 5699 | 38 | 2223 5699 | 38 | 1123 2468 | 27 | 0012 4579 | 28 | 2 | 16.0 | | | | | | | | | | | | | | |
| 4 d | 9764 5443 | 42 | 9764 5442 | 41 | 9752 3333 | 35 | 9874 4332 | 40 | 2 | 15.5 | | | | | | | | | | | | | | |
| 5 | 1113 3411 | 15 | 1003 3411 | 13 | 1112 2211 | 11 | 1000 3210 | 7 | 1 | 15.4 | | | | | | | | | | | | | | |
| 6 d | 3333 3313 | 22 | 3333 3311 | 20 | 2332 2303 | 18 | 3331 3300 | 16 | 1 | 15.6 | | | | | | | | | | | | | | |
| 7 | 2211 3342 | 18 | 1211 3332 | 16 | 2211 2342 | 17 | 1110 1344 | 15 | 1 | 15.5 | | | | | | | | | | | | | | |
| 8 d | 3423 4444 | 28 | 3423 4443 | 26 | 3321 3434 | 23 | 2412 4345 | 25 | 2 | 15.3 | | | | | | | | | | | | | | |
| 9 | 3222 3424 | 22 | 3222 3413 | 20 | 3211 2424 | 19 | 4011 1214 | 14 | 1 | 15.3 | | | | | | | | | | | | | | |
| 10 | 4322 2334 | 23 | 3312 2333 | 20 | 2322 2334 | 23</td | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | | OCTOBER 1966 | | |
|---------------|----------|-----|-----|-----|-----|-----|------|-----|-----|------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|--------------|--|--|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 15,000γ+ | | |
| 1 | 658 | 668 | 668 | 672 | 671 | 676 | 668 | 668 | 659 | 650 | 650 | 649 | 655 | 667 | 669 | 677 | 680 | 678 | 682 | 678 | 680 | 679 | 678 | 678 | 669 | 1058 | | |
| 2 q | 678 | 677 | 677 | 677 | 675 | 674 | 675 | 668 | 664 | 651 | 645 | 644 | 647 | 657 | 669 | 674 | 677 | 677 | 678 | 681 | 681 | 684 | 680 | 670 | 1091 | | | |
| 3 | 679 | 678 | 678 | 680 | 678 | 680 | 685 | 681 | 673 | 661 | 651 | 648 | 654 | 664 | 673 | 678 | 684 | 688 | 690 | 691 | 688 | 687 | 685 | 676 | 1232 | | | |
| 4 d | 686 | 680 | 677 | 678 | 676 | 681 | 676 | 681 | 672 | 658 | 654 | 654 | 671 | 670 | 670 | 672 | 705 | 714 | 724 | 730 | 750 | 642 | 457 | 673 | 1161 | | | |
| 5 d | 625 | 580 | 626 | 570 | 666 | 684 | 661 | 651 | 647 | 596 | 585 | 625 | 650 | 658 | 672 | 681 | 695 | 684 | 693 | 680 | 661 | 648 | 668 | 649 | 586 | | | |
| 6 d | 661 | 656 | 660 | 652 | 667 | 609 | 663 | 663 | 669 | 647 | 648 | 657 | 656 | 671 | 675 | 674 | 669 | 669 | 670 | 670 | 670 | 670 | 673 | 670 | 662 | 889 | | |
| 7 | 673 | 673 | 666 | 667 | 672 | 675 | 673 | 672 | 666 | 653 | 643 | 643 | 648 | 657 | 664 | 677 | 677 | 673 | 670 | 670 | 674 | 676 | 693 | 667 | 668 | 1022 | | |
| 8 | 667 | 671 | 670 | 670 | 670 | 673 | 674 | 674 | 659 | 645 | 646 | 646 | 650 | 653 | 659 | 660 | 670 | 673 | 677 | 680 | 680 | 682 | 688 | 667 | 1005 | | | |
| 9 | 680 | 678 | 677 | 677 | 673 | 676 | 686 | 672 | 660 | 649 | 647 | 647 | 663 | 666 | 662 | 676 | 673 | 675 | 679 | 682 | 683 | 680 | 671 | 1104 | | | | |
| 10 | 675 | 676 | 677 | 677 | 678 | 675 | 673 | 667 | 661 | 657 | 654 | 657 | 660 | 662 | 667 | 673 | 677 | 681 | 683 | 680 | 680 | 680 | 672 | 1130 | | | | |
| 11 q | 679 | 679 | 679 | 679 | 679 | 679 | 675 | 669 | 660 | 655 | 657 | 659 | 662 | 666 | 670 | 675 | 680 | 685 | 679 | 678 | 678 | 678 | 673 | 679 | 1158 | | | |
| 12 | 685 | 685 | 676 | 682 | 686 | 691 | 684 | 677 | 675 | 669 | 665 | 655 | 662 | 660 | 666 | 679 | 677 | 685 | 689 | 684 | 689 | 692 | 673 | 678 | 1270 | | | |
| 13 | 685 | 677 | 679 | 680 | 680 | 680 | 675 | 672 | 666 | 661 | 666 | 659 | 660 | 665 | 672 | 679 | 676 | 684 | 685 | 688 | 681 | 682 | 698 | 676 | 1230 | | | |
| 14 | 679 | 682 | 679 | 680 | 678 | 681 | 677 | 672 | 680 | 651 | 642 | 649 | 659 | 668 | 676 | 679 | 683 | 685 | 686 | 685 | 685 | 682 | 682 | 675 | 1205 | | | |
| 15 | 682 | 682 | 680 | 687 | 683 | 682 | 681 | 678 | 672 | 658 | 659 | 655 | 668 | 676 | 678 | 685 | 694 | 697 | 687 | 702 | 688 | 680 | 663 | 679 | 1307 | | | |
| 16 d | 671 | 683 | 687 | 688 | 682 | 707 | 695 | 632 | 625 | 631 | 639 | 616 | 631 | 648 | 667 | 659 | 644 | 647 | 650 | 656 | 662 | 665 | 668 | 668 | 659 | 821 | | |
| 17 | 682 | 670 | 671 | 670 | 668 | 671 | 668 | 664 | 658 | 651 | 641 | 635 | 638 | 645 | 659 | 671 | 681 | 674 | 679 | 681 | 681 | 681 | 677 | 667 | 997 | | | |
| 18 | 688 | 673 | 673 | 671 | 675 | 675 | 674 | 671 | 664 | 654 | 645 | 646 | 648 | 655 | 658 | 665 | 675 | 678 | 682 | 685 | 683 | 681 | 680 | 670 | 1080 | | | |
| 19 | 678 | 677 | 677 | 679 | 678 | 678 | 677 | 673 | 669 | 664 | 656 | 655 | 658 | 661 | 667 | 673 | 678 | 684 | 682 | 684 | 684 | 687 | 674 | 1177 | | | | |
| 20 | 687 | 682 | 679 | 678 | 677 | 678 | 673 | 684 | 683 | 674 | 664 | 658 | 660 | 664 | 673 | 678 | 681 | 683 | 684 | 681 | 681 | 684 | 677 | 1236 | | | | |
| 21 q | 680 | 680 | 678 | 679 | 679 | 680 | 680 | 680 | 676 | 667 | 657 | 658 | 662 | 660 | 666 | 668 | 676 | 680 | 682 | 683 | 684 | 685 | 685 | 675 | 1209 | | | |
| 22 q | 683 | 682 | 680 | 680 | 680 | 680 | 683 | 683 | 680 | 671 | 664 | 659 | 657 | 660 | 666 | 671 | 677 | 680 | 683 | 687 | 684 | 683 | 680 | 677 | 1240 | | | |
| 23 q | 679 | 674 | 677 | 679 | 680 | 681 | 681 | 679 | 673 | 666 | 663 | 663 | 664 | 669 | 678 | 684 | 689 | 694 | 696 | 695 | 688 | 689 | 680 | 680 | 1311 | | | |
| 24 | 691 | 690 | 688 | 687 | 688 | 687 | 690 | 693 | 694 | 686 | 679 | 674 | 670 | 681 | 695 | 678 | 670 | 683 | 684 | 689 | 679 | 687 | 674 | 684 | 1413 | | | |
| 25 | 668 | 672 | 676 | 671 | 676 | 681 | 672 | 677 | 671 | 652 | 648 | 641 | 645 | 654 | 657 | 665 | 673 | 679 | 680 | 689 | 664 | 677 | 682 | 678 | 1048 | | | |
| 26 | 686 | 680 | 679 | 681 | 682 | 682 | 679 | 676 | 672 | 662 | 653 | 655 | 660 | 669 | 670 | 652 | 653 | 674 | 669 | 672 | 675 | 676 | 679 | 671 | 1111 | | | |
| 27 | 669 | 669 | 672 | 672 | 674 | 676 | 674 | 671 | 669 | 662 | 673 | 655 | 656 | 663 | 672 | 675 | 677 | 679 | 680 | 685 | 672 | 666 | 672 | 1119 | | | | |
| 28 | 678 | 675 | 668 | 674 | 677 | 678 | 679 | 677 | 669 | 660 | 654 | 655 | 663 | 669 | 673 | 677 | 680 | 682 | 683 | 676 | 676 | 679 | 674 | 1170 | | | | |
| 29 | 678 | 679 | 678 | 677 | 679 | 682 | 678 | 675 | 669 | 660 | 654 | 652 | 661 | 669 | 679 | 680 | 682 | 679 | 681 | 679 | 682 | 682 | 675 | 1196 | | | | |
| 30 | 686 | 686 | 683 | 686 | 686 | 686 | 687 | 682 | 675 | 669 | 664 | 668 | 678 | 689 | 693 | 688 | 678 | 655 | 659 | 657 | 656 | 671 | 677 | 1240 | | | | |
| 31 d | 669 | 646 | 644 | 662 | 671 | 635 | 671 | 675 | 673 | 661 | 656 | 645 | 640 | 666 | 666 | 654 | 710 | 686 | 660 | 644 | 647 | 631 | 648 | 657 | 659 | 817 | | |
| Mean | 676 | 673 | 673 | 673 | 677 | 677 | 673 | 669 | 658 | 653 | 651 | 651 | 656 | 663 | 669 | 672 | 677 | 679 | 680 | 681 | 681 | 680 | 677 | 670 | 671 | | | |
| Sum 20,000γ+ | 965 | 860 | 879 | 860 | 985 | 974 | 1004 | 878 | 749 | 398 | 235 | 187 | 323 | 553 | 738 | 834 | 1001 | 1062 | 1074 | 1111 | 1111 | 1083 | 995 | 774 | Grand Total 499,633 | | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | OCTOBER 1966 | | |
|---------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|--|--|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 300.0°+ | | |
| 1 | 14.9 | 13.9 | 10.4 | 9.1 | 11.3 | 12.7 | 14.6 | 14.1 | 14.9 | 14.9 | 17.4 | 18.9 | 20.8 | 20.7 | 19.7 | 18.7 | 17.7 | 17.3 | 16.9 | 17.2 | 17.5 | 16.3 | 15.8 | 15.7 | 15.9 | 81.4 | | |
| 2 q | 15.6 | 15.4 | 15.2 | 15.3 | 15.6 | 14.4 | 13.0 | 13.1 | 14.3 | 16.5 | 19.5 | 22.0 | 21.6 | 21.0 | 20.4 | 18.3 | 16.9 | 16.7 | 16.4 | 16.0 | 15.8 | 15.3 | 15.0 | 16.7 | 100.0 | | | |
| 3 | 15.6 | 15.6 | 15.6 | 15.6 | 15.3 | 14.7 | 15.3 | 15.2 | 13.0 | 13.1 | 15.0 | 17.0 | 18.7 | 20.5 | 20.8 | 19.8 | 18.6 | 18.2 | 18.3 | 18.2 | 18.0 | 17.5 | 17.4 | 16.5 | 95.7 | | | |
| 4 d | 13.9 | 12.9 | 14.8 | 11.3 | 12.5 | 14.3 | 13.6 | 13.9 | 14.5 | 14.5 | 22.5 | 23.5 | 25.2 | 25.8 | 22.1 | 21.9 | 22.7 | 22.6 | 24.1 | 19.6 | 19.5 | 19.4 | 19.3 | 19.2 | 115.6 | | | |
| 5 d | 2.0 | -4.4 | 5.6 | 11.6 | 14.0 | 11.6 | 17.2 | 17.1 | 14.5 | 21.4 | 24.2 | 22.6 | 22.5 | 21.6 | 22.5 | 22.5 | 18.6 | 18.7 | 19.1 | 19.0 | 19.1 | 19.1 | 19.1 | 19.1 | 27.5 | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

3 LERWICK (Z)

47,000 γ (0.47 CGS unit) +

OCTOBER 1966

| | Hour GMT 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000 γ + |
|--------------------------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------------------------|
| 1 | 400 | 387 | 400 | 420 | 432 | 433 | 441 | 442 | 443 | 447 | 446 | 445 | 448 | 445 | 444 | 447 | 450 | 450 | 450 | 450 | 447 | 446 | 444 | 444 | 438 | 501 |
| 2 q | 444 | 445 | 447 | 447 | 446 | 446 | 445 | 445 | 442 | 441 | 438 | 434 | 434 | 433 | 436 | 442 | 447 | 445 | 444 | 443 | 441 | 439 | 439 | 442 | 442 | 610 |
| 3 | 440 | 442 | 444 | 445 | 446 | 445 | 443 | 437 | 434 | 432 | 431 | 432 | 432 | 433 | 436 | 441 | 442 | 444 | 444 | 443 | 445 | 447 | 432 | 440 | 554 | |
| 4 d | 435 | 435 | 431 | 423 | 430 | 426 | 430 | 428 | 429 | 433 | 437 | 437 | 443 | 444 | 453 | 451 | 450 | 444 | 444 | 451 | 488 | 514 | 482 | 385 | 443 | 623 |
| 5 d | 302 | 275 | 328 | 313 | 333 | 393 | 422 | 435 | 445 | 447 | 468 | 464 | 449 | 453 | 459 | 505 | 546 | 531 | 495 | 442 | 419 | 435 | 431 | 416 | 425 | 206 |
| 6 d | 438 | 422 | 420 | 414 | 384 | 372 | 365 | 409 | 425 | 443 | 454 | 469 | 481 | 500 | 495 | 490 | 492 | 488 | 481 | 469 | 463 | 453 | 424 | 409 | 444 | 660 |
| 7 | 432 | 440 | 441 | 436 | 437 | 442 | 447 | 450 | 451 | 447 | 447 | 447 | 450 | 452 | 460 | 472 | 501 | 502 | 480 | 465 | 456 | 452 | 427 | 405 | 452 | 839 |
| 8 | 420 | 431 | 437 | 441 | 444 | 445 | 445 | 445 | 448 | 452 | 451 | 456 | 458 | 454 | 450 | 450 | 451 | 453 | 453 | 450 | 451 | 450 | 449 | 444 | 447 | 728 |
| 9 | 443 | 438 | 423 | 423 | 430 | 430 | 431 | 435 | 441 | 445 | 444 | 451 | 455 | 461 | 463 | 476 | 470 | 463 | 455 | 454 | 450 | 449 | 437 | 446 | 712 | |
| 10 | 441 | 444 | 445 | 445 | 445 | 445 | 445 | 445 | 444 | 445 | 445 | 445 | 447 | 449 | 450 | 450 | 449 | 449 | 446 | 446 | 447 | 445 | 447 | 446 | 711 | |
| 11 q | 448 | 447 | 447 | 447 | 444 | 444 | 443 | 443 | 444 | 442 | 439 | 442 | 445 | 444 | 443 | 443 | 442 | 442 | 442 | 446 | 447 | 446 | 446 | 444 | 444 | 660 |
| 12 | 433 | 423 | 435 | 436 | 435 | 434 | 436 | 438 | 437 | 437 | 435 | 438 | 440 | 445 | 445 | 447 | 449 | 444 | 446 | 456 | 445 | 441 | 427 | 435 | 439 | 537 |
| 13 | 421 | 433 | 441 | 442 | 442 | 440 | 438 | 438 | 440 | 436 | 431 | 430 | 439 | 445 | 445 | 447 | 449 | 453 | 443 | 442 | 442 | 441 | 425 | 439 | 548 | |
| 14 | 431 | 440 | 444 | 445 | 450 | 446 | 445 | 446 | 449 | 448 | 444 | 444 | 444 | 448 | 450 | 450 | 446 | 444 | 444 | 441 | 443 | 443 | 445 | 445 | 675 | |
| 15 | 444 | 445 | 445 | 436 | 438 | 438 | 439 | 437 | 437 | 437 | 429 | 425 | 423 | 429 | 435 | 439 | 441 | 443 | 453 | 466 | 438 | 429 | 411 | 384 | 435 | 441 |
| 16 d | 401 | 420 | 423 | 422 | 415 | 411 | 419 | 435 | 434 | 435 | 446 | 459 | 474 | 529 | 537 | 527 | 505 | 507 | 511 | 477 | 456 | 440 | 437 | 433 | 456 | 953 |
| 17 | 413 | 434 | 444 | 447 | 448 | 447 | 451 | 451 | 451 | 449 | 446 | 443 | 442 | 443 | 444 | 448 | 446 | 445 | 445 | 441 | 427 | 435 | 439 | 447 | 720 | |
| 18 | 434 | 437 | 444 | 448 | 448 | 448 | 449 | 448 | 446 | 445 | 444 | 445 | 446 | 446 | 446 | 446 | 446 | 447 | 447 | 448 | 448 | 447 | 446 | 695 | | |
| 19 | 444 | 445 | 444 | 443 | 444 | 444 | 444 | 444 | 445 | 443 | 444 | 443 | 442 | 442 | 442 | 442 | 443 | 444 | 446 | 446 | 446 | 444 | 437 | 444 | 658 | |
| 20 | 434 | 437 | 440 | 441 | 440 | 438 | 438 | 438 | 438 | 442 | 442 | 439 | 442 | 442 | 443 | 444 | 446 | 448 | 447 | 447 | 450 | 451 | 448 | 442 | 619 | |
| 21 q | 445 | 444 | 443 | 442 | 441 | 441 | 441 | 440 | 442 | 441 | 441 | 438 | 437 | 437 | 440 | 441 | 440 | 440 | 442 | 443 | 444 | 443 | 443 | 441 | 595 | |
| 22 q | 443 | 442 | 442 | 441 | 440 | 440 | 440 | 439 | 440 | 440 | 440 | 439 | 440 | 441 | 441 | 440 | 440 | 440 | 440 | 440 | 444 | 445 | 443 | 441 | 582 | |
| 23 q | 437 | 441 | 441 | 441 | 440 | 439 | 439 | 439 | 437 | 441 | 442 | 442 | 440 | 439 | 440 | 439 | 437 | 436 | 436 | 437 | 448 | 450 | 448 | 440 | 569 | |
| 24 | 445 | 443 | 442 | 439 | 437 | 436 | 434 | 432 | 432 | 431 | 432 | 434 | 435 | 439 | 443 | 461 | 470 | 462 | 453 | 451 | 453 | 469 | 422 | 405 | 442 | 600 |
| 25 | 426 | 421 | 390 | 396 | 425 | 430 | 432 | 425 | 432 | 445 | 446 | 447 | 446 | 463 | 458 | 453 | 452 | 452 | 457 | 450 | 467 | 459 | 440 | 359 | 436 | 471 |
| 31 d | 430 | 392 | 307 | 381 | 409 | 391 | 409 | 430 | 438 | 443 | 446 | 454 | 466 | 473 | 508 | 540 | 548 | 542 | 452 | 440 | 444 | 418 | 396 | 405 | 440 | 562 |
| Mean | 427 | 428 | 429 | 431 | 433 | 433 | 436 | 439 | 441 | 442 | 443 | 444 | 446 | 451 | 454 | 458 | 461 | 461 | 455 | 451 | 449 | 447 | 439 | 429 | 443 | |
| Sum 13,000 γ + | 225 | 277 | 294 | 370 | 423 | 426 | 509 | 598 | 657 | 713 | 731 | 760 | 825 | 969 | 1070 | 1211 | 1305 | 1303 | 1116 | 984 | 930 | 862 | 615 | 295 | | Grand Total 329,468 |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

4 LERWICK

OCTOBER 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph house °C |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 | 2110 1011 | 7 | 2110 1000 | 5 | 2110 1011 | 7 | 2200 0000 | 4 | 1 | 15·1 |
| 2 q | 0000 1101 | 3 | 0000 1100 | 2 | 0000 0001 | 1 | 0000 0000 | 0 | 0 | 15·6 |
| 3 | 0010 0002 | 3 | 0000 0002 | 2 | 0010 0002 | 3 | 0000 0002 | 2 | 0 | 15·2 |
| 4 d | 2211 2357 | 23 | 1110 2357 | 20 | 2211 2245 | 19 | 1100 1236 | 14 | 2 | 15·1 |
| 5 d | 5534 2453 | 31 | 5524 2343 | 28 | 4432 1452 | 25 | 4432 1443 | 25 | 2 | 15·0 |
| 6 d | 2443 3222 | 22 | 1423 2211 | 16 | 2442 3222 | 21 | 2443 2113 | 20 | 1 | 13·9 |
| 7 | 1110 1323 | 12 | 0000 1213 | 7 | 1110 1323 | 12 | 2100 0323 | 11 | 1 | 14·9 |
| 8 | 2010 1112 | 8 | 1010 1100 | 4 | 2010 0012 | 6 | 2000 1000 | 3 | 0 | 15·4 |
| 9 | 2111 2312 | 13 | 0111 2201 | 8 | 2111 1312 | 12 | 1100 1111 | 6 | 1 | 15·2 |
| 10 | 0011 1031 | 7 | 0000 0020 | 2 | 0011 1031 | 7 | 0000 0000 | 0 | 1 | 15·4 |
| 11 q | 0000 0011 | 2 | 0000 0010 | 1 | 0000 0011 | 2 | 0000 0000 | 0 | 0 | 15·5 |
| 12 | 2111 1133 | 13 | 1011 1123 | 10 | 2111 1033 | 12 | 2000 0122 | 7 | 1 | 15·7 |
| 13 | 1011 1223 | 11 | 1001 1113 | 8 | 1011 1222 | 10 | 2000 0012 | 5 | 1 | 15·8 |
| 14 | 1210 1001 | 6 | 0000 1000 | 1 | 1210 1001 | 6 | 2000 0000 | 2 | 0 | 15·6 |
| 15 | 1112 2343 | 17 | 0002 2343 | 14 | 1112 1143 | 14 | 0001 1142 | 9 | 1 | 16·0 |
| 16 d | 3343 3333 | 25 | 3343 3310 | 20 | 2333 3333 | 23 | 1113 4330 | 16 | 2 | 16·1 |
| 17 | 2110 1201 | 8 | 2000 0200 | 4 | 2110 1101 | 7 | 3100 0000 | 4 | 1 | 15·7 |
| 18 | 3001 1001 | 6 | 2001 1001 | 5 | 3001 0001 | 5 | 2000 0000 | 2 | 1 | 15·6 |
| 19 | 0011 0111 | 5 | 0000 0111 | 3 | 0011 0011 | 4 | 0000 0011 | 2 | 0 | 15·5 |
| 20 | 0100 0111 | 4 | 0000 0011 | 2 | 0100 0111 | 4 | 0000 0000 | 0 | 0 | 15·5 |
| 21 q | 0001 1000 | 2 | 0000 0001 | 1 | 0000 0002 | 2 | 0000 0000 | 0 | 0 | 15·6 |
| 22 q | 0000 0002 | 2 | 0000 0010 | 1 | 2000 0001 | 3 | 0000 0000 | 0 | 0 | 16·3 |
| 23 q | 2000 0011 | 4 | 1000 0020 | 3 | 2011 0011 | 6 | 3000 0000 | 3 | 1 | 14·8 |
| 24 | 0012 2323 | 13 | 0012 2312 | 11 | 0012 2323 | 13 | 0001 1224 | 10 | 1 | 16·0 |
| 25 | 3123 2143 | 19 | 2122 2133 | 16 | 3123 2143 | 19 | 3311 2135 | 19 | 2 | 15·0 |
| 26 | 3311 2322 | 17 | 1201 2311 | 11 | 3311 2322 | 17 | 4321 2221 | 17 | 2 | 15·8 |
| 27 | 2000 1221 | 8 | 1000 1111 | 5 | 2000 0221 | 7 | 1001 0103 | 6 | 1 | 15·7 |
| 28 | 2011 0021 | 7 | 1000 0020 | 3 | 2011 0011 | 6 | 3000 0000 | 3 | 1 | 14·8 |
| 29 | 1010 1111 | 6 | 0000 1100 | 2 | 1010 0011 | 4 | 0000 0000 | 0 | 0 | 15·1 |
| 30 | 1010 1324 | 12 | 0000 1323 | 9 | 1010 1324 | 12 | 1000 0424 | 11 | 1 | 15·9 |
| 31 d | 4323 3454 | 28 | 3322 3443 | 24 | 4323 3454 | 28 | 5331 4422 | 24 | 2 | 15·4 |
| | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

1 LERWICK (H)

14,000γ (0.14 CGS unit) +

NOVEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000γ+ |
|-----------------|------|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------------------|
| 1 d | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 646 | 651 | 658 | 699 | 679 | 693 | 654 | 663 | 670 | 687 | 684 | 661 | 660 | 844 |
| 2 | 634 | 644 | 650 | 661 | 661 | 667 | 650 | 650 | 673 | 639 | 639 | 631 | 631 | 646 | 654 | 667 | 670 | 673 | 678 | 697 | 674 | 673 | 680 | 681 | 674 | 671 | 1096 | |
| 3 d | 633 | 651 | 673 | 672 | 678 | 678 | 678 | 676 | 673 | 667 | 661 | 657 | 657 | 654 | 661 | 667 | 671 | 669 | 684 | 676 | 681 | 686 | 689 | 684 | 683 | 674 | 1185 | |
| 4 | 677 | 670 | 674 | 673 | 683 | 681 | 667 | 684 | 682 | 667 | 644 | 646 | 646 | 660 | 661 | 667 | 668 | 671 | 676 | 677 | 674 | 675 | 667 | 672 | 680 | 682 | 673 | 1164 |
| 5 | 683 | 674 | 676 | 676 | 670 | 680 | 686 | 684 | 678 | 665 | 662 | 660 | 660 | 661 | 667 | 668 | 671 | 676 | 677 | 674 | 675 | 667 | 672 | 680 | 682 | 673 | 1153 | |
| 6 | 681 | 681 | 681 | 681 | 678 | 684 | 680 | 672 | 667 | 661 | 657 | 659 | 659 | 660 | 662 | 667 | 670 | 670 | 667 | 669 | 673 | 687 | 680 | 682 | 684 | 673 | 1153 | |
| 7 | 680 | 679 | 678 | 680 | 673 | 680 | 687 | 686 | 677 | 662 | 652 | 648 | 648 | 652 | 663 | 673 | 679 | 680 | 677 | 666 | 660 | 662 | 664 | 669 | 670 | 671 | 1097 | |
| 8 | 676 | 677 | 677 | 679 | 676 | 679 | 683 | 685 | 677 | 664 | 659 | 657 | 657 | 660 | 666 | 670 | 676 | 679 | 681 | 684 | 687 | 681 | 681 | 679 | 685 | 676 | 1218 | |
| 9 q | 675 | 669 | 667 | 668 | 676 | 682 | 683 | 686 | 681 | 673 | 665 | 663 | 663 | 663 | 670 | 679 | 675 | 681 | 689 | 683 | 681 | 686 | 687 | 687 | 684 | 677 | 1253 | |
| 10 | 683 | 683 | 680 | 686 | 688 | 689 | 687 | 687 | 681 | 671 | 667 | 666 | 666 | 669 | 674 | 680 | 683 | 687 | 687 | 689 | 690 | 692 | 691 | 690 | 690 | 683 | 1390 | |
| 11 | 690 | 687 | 690 | 693 | 695 | 696 | 684 | 687 | 687 | 679 | 671 | 669 | 669 | 663 | 673 | 673 | 678 | 677 | 682 | 686 | 681 | 680 | 674 | 679 | 680 | 681 | 1354 | |
| 12 | 683 | 681 | 679 | 682 | 680 | 681 | 685 | 686 | 683 | 670 | 661 | 666 | 666 | 664 | 667 | 674 | 682 | 687 | 683 | 686 | 680 | 683 | 682 | 682 | 680 | 678 | 1270 | |
| 13 | 680 | 682 | 681 | 685 | 683 | 685 | 689 | 687 | 680 | 670 | 650 | 671 | 671 | 674 | 676 | 678 | 683 | 686 | 677 | 680 | 684 | 694 | 686 | 682 | 680 | 680 | 1317 | |
| 14 q | 681 | 680 | 680 | 682 | 684 | 686 | 685 | 683 | 681 | 676 | 672 | 670 | 670 | 672 | 671 | 677 | 681 | 687 | 690 | 690 | 690 | 690 | 688 | 687 | 686 | 682 | 1367 | |
| 15 | 681 | 680 | 683 | 684 | 685 | 686 | 687 | 687 | 687 | 680 | 672 | 669 | 669 | 672 | 677 | 677 | 679 | 680 | 682 | 683 | 676 | 675 | 677 | 682 | 681 | 680 | 1322 | |
| 16 | 675 | 676 | 679 | 679 | 688 | 695 | 692 | 686 | 672 | 669 | 667 | 666 | 666 | 663 | 668 | 673 | 673 | 679 | 685 | 686 | 686 | 686 | 683 | 681 | 683 | 679 | 1293 | |
| 17 | 683 | 680 | 672 | 684 | 699 | 693 | 696 | 696 | 688 | 682 | 676 | 672 | 672 | 676 | 683 | 687 | 691 | 694 | 706 | 692 | 699 | 663 | 667 | 675 | 681 | 684 | 1405 | |
| 18 | 681 | 681 | 682 | 684 | 686 | 686 | 685 | 694 | 681 | 675 | 672 | 674 | 674 | 678 | 684 | 692 | 695 | 692 | 693 | 682 | 678 | 685 | 671 | 676 | 659 | 682 | 1366 | |
| 19 | 668 | 672 | 679 | 693 | 684 | 685 | 682 | 676 | 663 | 670 | 663 | 660 | 662 | 662 | 670 | 673 | 679 | 682 | 688 | 686 | 681 | 682 | 683 | 680 | 676 | 1223 | | |
| 20 | 673 | 683 | 679 | 676 | 676 | 677 | 678 | 682 | 682 | 677 | 675 | 675 | 678 | 677 | 680 | 683 | 687 | 689 | 682 | 682 | 679 | 687 | 680 | 680 | 680 | 1319 | | |
| 21 | 679 | 678 | 676 | 679 | 680 | 683 | 686 | 686 | 675 | 679 | 676 | 676 | 676 | 676 | 677 | 680 | 683 | 686 | 688 | 689 | 686 | 686 | 677 | 676 | 689 | 681 | 1349 | |
| 22 q | 680 | 675 | 679 | 682 | 685 | 684 | 684 | 685 | 682 | 678 | 676 | 676 | 676 | 675 | 676 | 679 | 682 | 686 | 687 | 689 | 689 | 687 | 686 | 686 | 682 | 1377 | | |
| 23 q | 683 | 685 | 685 | 689 | 689 | 691 | 692 | 689 | 686 | 683 | 683 | 683 | 683 | 679 | 682 | 683 | 686 | 689 | 690 | 690 | 690 | 689 | 686 | 687 | 687 | 1481 | | |
| 24 | 686 | 686 | 683 | 676 | 700 | 696 | 689 | 687 | 686 | 679 | 673 | 673 | 664 | 674 | 677 | 686 | 688 | 689 | 689 | 686 | 685 | 685 | 682 | 684 | 684 | 1407 | | |
| 25 q | 681 | 681 | 682 | 686 | 687 | 689 | 687 | 686 | 683 | 683 | 683 | 682 | 684 | 688 | 693 | 694 | 697 | 699 | 697 | 695 | 692 | 691 | 689 | 688 | 688 | 1523 | | |
| 26 | 698 | 682 | 676 | 683 | 683 | 690 | 695 | 693 | 689 | 695 | 685 | 685 | 685 | 680 | 675 | 676 | 684 | 678 | 686 | 685 | 685 | 685 | 685 | 682 | 685 | 685 | 1441 | |
| 27 | 682 | 682 | 684 | 689 | 695 | 694 | 692 | 690 | 681 | 675 | 673 | 673 | 673 | 676 | 679 | 682 | 685 | 686 | 689 | 686 | 686 | 686 | 684 | 684 | 684 | 1415 | | |
| 28 d | 682 | 682 | 681 | 689 | 693 | 698 | 696 | 692 | 687 | 684 | 669 | 672 | 670 | 670 | 668 | 665 | 677 | 670 | 686 | 665 | 665 | 673 | 648 | 678 | 678 | 1268 | | |
| 29 d | 649 | 660 | 682 | 683 | 688 | 679 | 678 | 684 | 679 | 663 | 659 | 662 | 662 | 661 | 659 | 662 | 660 | 663 | 669 | 672 | 679 | 678 | 676 | 674 | 671 | 1098 | | |
| 30 d | 676 | 682 | 679 | 675 | 682 | 690 | 693 | 657 | 649 | 650 | 646 | 649 | 649 | 649 | 653 | 668 | 666 | 666 | 674 | 661 | 665 | 678 | 659 | 666 | 667 | 1007 | | |
| Mean | | | 677 | 677 | 678 | 681 | 683 | 686 | 685 | 683 | 679 | 672 | 665 | 665 | 667 | 671 | 675 | 679 | 682 | 684 | 682 | 681 | 682 | 681 | 680 | 678 | | |
| Sum 19,000γ+ | | | 1303 | 1305 | 1347 | 1429 | 1493 | 1572 | 1545 | 1505 | 1377 | 1163 | 962 | 965 | 1006 | 1120 | 1257 | 1376 | 1458 | 1520 | 1472 | 1421 | 1421 | 1464 | 1436 | 1388 | | Grand Total 488,305 |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

2 LERWICK (D)

9° +

NOVEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 300·0'+ |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------------|
| 1 d | | ' | 16.6 | 18.1 | 18.0 | 15.6 | 18.4 | 18.6 | 21.5 | 21.4 | 17.7 | 16.8 | 17.9 | 18.1 | 21.1 | 22.6 | 22.9 | 26.2 | 16.9 | 10.7 | 10.2 | 15.0 | 14.8 | 9.3 | 13.9 | 11.6 | 17.2 | 113.9 |
| 2 | 16.5 | 17.9 | 14.1 | 14.6 | 15.0 | 14.8 | 15.6 | 15.7 | 14.5 | 15.1 | 17.5 | 20.3 | 19.6 | 20.2 | 19.4 | 19.3 | 18.2 | 14.9 | 3.6 | 13.7 | 15.1 | 13.8 | 14.5 | 14.0 | 15.6 | 15.7 | 77.9 | |
| 3 d | 11.7 | 15.6 | 13.4 | 16.6 | 16.6 | 16.1 | 20.4 | 19.1 | 15.4 | 17.4 | 17.4 | 17.0 | 18.3 | 19.5 | 19.4 | 19.4 | 16.7 | 16.5 | 10.9 | 15.9 | 13.4 | 11.8 | 11.8 | 12.9 | 14.1 | 15.6 | 73.6 | |
| 4 | 14.8 | 14.7 | 15.1 | 15.1 | 14.8 | 16.9 | 18.4 | 18.3 | 15.9 | 16.0 | 14.8 | 16.6 | 16.6 | 19.3 | 20.4 | 21.1 | 20.1 | 19.2 | 18.4 | 17.3 | 16.8 | 16.0 | 15.7 | 15.6 | 16.2 | 88.0 | | |
| 5 | 14.8 | 17.4 | 17.4 | 16.3 | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 | 17.4 | 18.2 | 18.5 | 19.6 | 21.4 | 21.2 | 21.6 | 20.2 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 19.3 | 108.6 | | |
| 6 | 13.5 | 15.5 | 15.8 | 15.8 | 16.2 | 16.5 | 15.6 | 14.7 | 14.7 | 15.5 | 15.2 | 17.2 | 20.2 | 21.3 | 22.2 | 22.2 | 20.5 | 20.3 | 19.4 | 21.3 | 22.1 | 16.6 | 12.6 | 11.4 | 10.9 | 10.8 | 16.8 | |
| 7 | 12.9 | 15.3 | 16.3 | 13.2 | 14.3 | 13.8 | 13.6 | 13.7 | 13.8 | 14.2 | 16.2 | 16.6 | 18.6 | 19.8 | 20.2 | 18.7 | 17.6 | 16.9 | 16.8 | 16.6 | 15.5 | 15.2 | 12.5 | 14.1 | 16.2 | 15.7 | 77.0 | |
| 8 | 11.0 | 7.5 | 10.4 | 11.4 | 13.3 | 12.8 | 13.6 | 13.6 | 13.6 | 13.9 | 16.3 | 16.3 | 18.4 | 19.4 | 20.1 | 20.2 | 19.3 | 18.3 | 18.1 | | | | | | | | | |

GEO MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, G.M.T.

25

3 LERWICK (Z)

47,000 γ (0.47 CGS unit) +

NOVEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000 γ + | |
|--------------------------|------|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|--------------------------|-----|
| 1 d | | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 933 |
| 2 | 387 | 393 | 413 | 415 | 427 | 427 | 436 | 434 | 440 | 460 | 464 | 483 | 511 | 499 | 474 | 483 | 541 | 531 | 500 | 479 | 466 | 447 | 408 | 415 | 456 | 456 | 933 | | |
| 3 d | 394 | 370 | 397 | 431 | 440 | 443 | 446 | 447 | 449 | 448 | 445 | 479 | 465 | 458 | 457 | 460 | 462 | 466 | 450 | 449 | 449 | 447 | 426 | 402 | 441 | 441 | 580 | | |
| 4 | 409 | 423 | 430 | 437 | 434 | 437 | 433 | 421 | 433 | 447 | 455 | 456 | 449 | 461 | 471 | 475 | 478 | 463 | 458 | 443 | 439 | 427 | 422 | 415 | 442 | 442 | 616 | | |
| 5 | 410 | 420 | 429 | 435 | 440 | 433 | 430 | 439 | 441 | 445 | 441 | 438 | 440 | 442 | 446 | 449 | 451 | 455 | 460 | 462 | 443 | 441 | 445 | 441 | 441 | 441 | 576 | | |
| 6 | 440 | 438 | 435 | 440 | 442 | 434 | 435 | 443 | 446 | 447 | 448 | 448 | 450 | 456 | 461 | 468 | 470 | 480 | 473 | 469 | 451 | 451 | 446 | 434 | 450 | 450 | 805 | | |
| 7 | 439 | 439 | 442 | 441 | 442 | 436 | 436 | 443 | 449 | 454 | 453 | 451 | 448 | 448 | 450 | 453 | 454 | 454 | 463 | 492 | 506 | 498 | 479 | 469 | 458 | 456 | 943 | | |
| 8 | 450 | 445 | 443 | 443 | 446 | 446 | 447 | 447 | 450 | 452 | 454 | 456 | 450 | 450 | 451 | 452 | 452 | 450 | 449 | 449 | 453 | 458 | 454 | 416 | 448 | 448 | 763 | | |
| 9 q | 457 | 394 | 399 | 411 | 412 | 422 | 433 | 438 | 443 | 446 | 447 | 451 | 451 | 450 | 451 | 452 | 449 | 446 | 451 | 458 | 451 | 449 | 450 | 450 | 436 | 471 | 471 | | |
| 10 | 450 | 447 | 447 | 443 | 444 | 444 | 443 | 443 | 446 | 449 | 449 | 450 | 449 | 449 | 451 | 449 | 451 | 449 | 447 | 446 | 444 | 444 | 446 | 447 | 446 | 446 | 714 | | |
| 11 | 447 | 447 | 445 | 442 | 440 | 439 | 439 | 435 | 439 | 443 | 445 | 449 | 454 | 452 | 452 | 453 | 452 | 450 | 457 | 466 | 459 | 452 | 448 | 448 | 448 | 757 | | | |
| 12 | 442 | 444 | 448 | 447 | 444 | 430 | 435 | 441 | 444 | 445 | 450 | 450 | 450 | 450 | 451 | 452 | 452 | 452 | 450 | 447 | 444 | 442 | 443 | 445 | 445 | 445 | 684 | | |
| 13 | 448 | 449 | 434 | 428 | 438 | 443 | 443 | 444 | 448 | 449 | 449 | 449 | 449 | 454 | 453 | 453 | 453 | 452 | 455 | 479 | 514 | 480 | 462 | 454 | 454 | 453 | 881 | | |
| 14 q | 455 | 454 | 454 | 451 | 451 | 450 | 446 | 446 | 449 | 449 | 452 | 448 | 449 | 453 | 457 | 457 | 455 | 455 | 463 | 455 | 448 | 444 | 444 | 446 | 448 | 448 | 850 | | |
| 15 | 449 | 449 | 448 | 450 | 450 | 449 | 448 | 448 | 447 | 447 | 448 | 447 | 447 | 445 | 446 | 451 | 454 | 457 | 456 | 458 | 460 | 456 | 447 | 437 | 450 | 806 | | | |
| 16 | 438 | 436 | 432 | 433 | 431 | 431 | 433 | 436 | 441 | 440 | 439 | 440 | 442 | 444 | 444 | 449 | 449 | 448 | 448 | 449 | 449 | 449 | 447 | 442 | 442 | 597 | | | |
| 17 | 443 | 439 | 439 | 425 | 426 | 434 | 435 | 439 | 444 | 444 | 442 | 442 | 439 | 439 | 441 | 442 | 444 | 443 | 467 | 506 | 490 | 466 | 451 | 442 | 447 | 447 | 725 | | |
| 18 | 441 | 443 | 444 | 445 | 446 | 447 | 447 | 448 | 449 | 449 | 449 | 445 | 442 | 443 | 444 | 446 | 447 | 469 | 520 | 492 | 475 | 482 | 445 | 438 | 454 | 896 | | | |
| 19 | 441 | 419 | 421 | 413 | 424 | 430 | 438 | 445 | 452 | 450 | 451 | 449 | 449 | 455 | 459 | 456 | 455 | 458 | 454 | 455 | 459 | 458 | 453 | 439 | 445 | 683 | | | |
| 20 | 406 | 389 | 417 | 432 | 439 | 439 | 444 | 444 | 446 | 446 | 446 | 442 | 441 | 442 | 444 | 446 | 446 | 447 | 459 | 466 | 468 | 466 | 462 | 435 | 442 | 612 | | | |
| 30 d | 439 | 435 | 441 | 439 | 434 | 431 | 436 | 449 | 439 | 436 | 448 | 458 | 468 | 470 | 476 | 508 | 478 | 468 | 468 | 486 | 473 | 416 | 402 | 424 | 451 | 822 | | | |
| Mean | 433 | 432 | 435 | 437 | 438 | 438 | 439 | 441 | 443 | 445 | 447 | 449 | 450 | 451 | 453 | 457 | 458 | 459 | 461 | 463 | 455 | 450 | 445 | 439 | 447 | | | | |
| Sum 12,000 γ + | 1005 | 964 | 1061 | 1112 | 1143 | 1137 | 1168 | 1229 | 1305 | 1356 | 1399 | 1460 | 1488 | 1533 | 1589 | 1697 | 1728 | 1770 | 1826 | 1884 | 1665 | 1511 | 1340 | 1171 | | Grand Total 321,541 | | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

4 LERWICK

NOVEMBER 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph house °C | | | | |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|------|------|---|------|
| 1 d | 4333 | 3433 | 26 | 4233 | 3433 | 25 | 3333 | 2433 | 24 | 3211 | 3433 | 20 | 2 | 14.5 |
| 2 | 3111 | 3332 | 17 | 3111 | 3132 | 15 | 3111 | 1331 | 14 | 3101 | 1123 | 12 | 1 | 14.4 |
| 3 d | 2232 | 2422 | 19 | 1122 | 2322 | 15 | 2231 | 2422 | 18 | 2122 | 2221 | 14 | 1 | 14.2 |
| 4 | 2220 | 0142 | 13 | 2110 | 0022 | 8 | 2220 | 0142 | 13 | 2110 | 0021 | 7 | 1 | 14.3 |
| 5 | 2111 | 1332 | 14 | 1101 | 1221 | 9 | 2111 | 1332 | 14 | 1110 | 1221 | 9 | 1 | 14.2 |
| 6 | 2211 | 1231 | 13 | 0210 | 1221 | 9 | 2011 | 1131 | 10 | 0000 | 0222 | 6 | 1 | 14.3 |
| 7 | 2110 | 0013 | 8 | 0010 | 0012 | 4 | 2100 | 0012 | 6 | 0000 | 0014 | 5 | 1 | 14.8 |
| 8 | 2211 | 1120 | 10 | 2210 | 1110 | 8 | 2201 | 0020 | 7 | 3110 | 0110 | 7 | 1 | 15.0 |
| 9 q | 1000 | 0000 | 1 | 0000 | 0000 | 0 | 1000 | 0000 | 1 | 0000 | 0000 | 0 | 0 | 14.3 |
| 10 | 0122 | 2121 | 11 | 0111 | 2111 | 8 | 0022 | 1021 | 8 | 0011 | 0122 | 7 | 1 | 15.0 |
| 11 | 1212 | 1000 | 7 | 1112 | 0000 | 5 | 1211 | 1000 | 6 | 1211 | 0100 | 6 | 0 | 14.0 |
| 12 | 1211 | 1131 | 11 | 1101 | 1130 | 8 | 1211 | 0130 | 9 | 2200 | 0131 | 9 | 1 | 14.2 |
| 13 | 1012 | 1022 | 9 | 0002 | 0012 | 5 | 1011 | 1022 | 8 | 0000 | 0012 | 3 | 1 | 14.3 |
| 14 q | 1010 | 0001 | 3 | 0000 | 0000 | 0 | 1010 | 0001 | 3 | 0000 | 0000 | 0 | 0 | 14.3 |
| 15 | 2011 | 1111 | 8 | 0000 | 0011 | 2 | 2011 | 1111 | 8 | 0000 | 0001 | 1 | 0 | 14.2 |
| 16 | 2111 | 0001 | 6 | 1111 | 0000 | 4 | 2111 | 0001 | 6 | 0000 | 0000 | 0 | 0 | 14.8 |
| 17 | 2220 | 0232 | 13 | 2220 | 0232 | 13 | 2220 | 0231 | 12 | 1100 | 0132 | 8 | 1 | 14.7 |
| 18 | 0001 | 2434 | 14 | 0001 | 2323 | 11 | 0001 | 1434 | 13 | 0000 | 0333 | 9 | 1 | 14.6 |
| 19 | 3311 | 2111 | 13 | 2211 | 1111 | 10 | 3311 | 2111 | 13 | 2220 | 1112 | 11 | 1 | 15.0 |
| 20 | 3111 | 1123 | 13 | 2000 | 0113 | 7 | 3111 | 1022 | 11 | 3100 | 0012 | 7 | 1 | 15.0 |
| 21 | 1111 | 0013 | 8 | 0110 | 0012 | 5 | 1111 | 0003 | 7 | 1100 | 0002 | 4 | 1 | 13.9 |
| 22 q | 1101 | 0000 | 3 | 1000 | 0000 | 1 | 1101 | 0000 | 3 | 1000 | 0000 | 1 | 0 | 14.3 |
| 23 q | 1000 | 0001 | 2 | 0000 | 0001 | 1 | 1000 | 0001 | 2 | 0000 | 0000 | 0 | 0 | 14.1 |
| 24 | 1210 | 1011 | 7 | 0210 | 0010 | 4 | 1210 | 1011 | 7 | 0210 | 0110 | 5 | 1 | 14.4 |
| 25 q | 0000 | 1111 | 4 | 0000 | 1101 | 3 | 0000 | 0011 | 2 | 0000 | 0001 | 1 | 0 | 13.7 |
| 26 | 3211 | 1210 | 11 | 3211 | 1110 | 10 | 2211 | 1210 | 10 | 2101 | 1100 | 6 | 1 | 14.4 |
| 27 | 1110 | 0231 | 9 | 0100 | 0020 | 3 | 1010 | 0231 | 8 | 0000 | 0021 | 3 | 1 | 14.4 |
| 28 d | 2011 | 2453 | 18 | 0011 | 2353 | 15 | 2011 | 1453 | 17 | 1111 | 1353 | 16 | 2 | 14.0 |
| 29 d | 4221 | 1311 | 15 | 3221 | 1110 | 11 | 4221 | 1311 | 15 | 3111 | 1210 | 10 | 1 | 13.7 |
| 30 d | 2233 | 3434 | 24 | 1232 | 2223 | 17 | 2133 | 3434 | 23 | 1123 | 2323 | 17 | 2 | 14.2 |
| | | | | | | | | | | Mean | | 0.83 | | 14.4 |

q denotes an international quiet day and d an international disturbed day.

K_H For horizontal component. K_D For declination. K_Z For vertical component. (See Introduction).

GEO MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 1 LERWICK (H) | | | | | | | | | | | | | 14,000γ (0.14 CGS unit) + | | | | | | | | | | | | | DECEMBER 1966 | | | |
|-----------------|------|-----|-----|------|------|------|------|------|------|-----|-----|------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|------------------------|-----------------|---|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 15,000γ+ | |
| 1 | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 1 | 669 | 671 | 681 | 685 | 663 | 671 | 679 | 672 | 668 | 666 | 662 | 665 | 663 | 657 | 665 | 669 | 675 | 677 | 680 | 669 | 687 | 668 | 672 | 678 | 678 | 671 | 1112 | | |
| 2 | 674 | 681 | 678 | 678 | 682 | 685 | 684 | 685 | 679 | 678 | 678 | 678 | 678 | 681 | 684 | 678 | 680 | 680 | 678 | 679 | 679 | 679 | 678 | 683 | 683 | 680 | 1317 | | |
| 3 q | 684 | 682 | 682 | 685 | 687 | 689 | 691 | 689 | 687 | 682 | 673 | 672 | 674 | 678 | 682 | 684 | 686 | 689 | 688 | 688 | 689 | 683 | 689 | 684 | 684 | 684 | 1421 | | |
| 4 | 685 | 691 | 688 | 689 | 694 | 701 | 702 | 672 | 685 | 683 | 690 | 685 | 674 | 675 | 675 | 668 | 680 | 678 | 678 | 675 | 677 | 670 | 667 | 671 | 681 | 681 | 1353 | | |
| 5 d | 668 | 672 | 675 | 670 | 672 | 671 | 685 | 681 | 671 | 680 | 678 | 675 | 677 | 681 | 685 | 685 | 675 | 658 | 661 | 655 | 671 | 671 | 671 | 673 | 673 | 673 | 1159 | | |
| 6 | 671 | 679 | 667 | 667 | 669 | 668 | 669 | 670 | 671 | 671 | 669 | 670 | 674 | 678 | 678 | 683 | 681 | 684 | 678 | 681 | 680 | 684 | 681 | 681 | 675 | 675 | 1204 | | |
| 7 | 681 | 681 | 678 | 678 | 677 | 679 | 681 | 680 | 677 | 675 | 675 | 675 | 679 | 681 | 681 | 684 | 686 | 688 | 686 | 684 | 684 | 688 | 684 | 684 | 681 | 681 | 1340 | | |
| 8 | 683 | 682 | 681 | 683 | 684 | 684 | 684 | 685 | 683 | 679 | 678 | 678 | 679 | 680 | 680 | 685 | 689 | 691 | 691 | 691 | 689 | 687 | 682 | 688 | 684 | 684 | 1416 | | |
| 9 q | 679 | 678 | 661 | 681 | 682 | 684 | 685 | 684 | 684 | 681 | 678 | 675 | 677 | 678 | 681 | 686 | 688 | 690 | 691 | 691 | 691 | 688 | 687 | 683 | 683 | 683 | 1387 | | |
| 10 | 687 | 685 | 686 | 687 | 687 | 689 | 685 | 686 | 688 | 678 | 678 | 682 | 684 | 684 | 687 | 691 | 694 | 694 | 695 | 695 | 689 | 686 | 691 | 691 | 687 | 1499 | | | |
| 11 q | 688 | 685 | 683 | 685 | 689 | 692 | 691 | 687 | 681 | 679 | 678 | 679 | 683 | 688 | 690 | 690 | 689 | 688 | 686 | 688 | 688 | 689 | 688 | 688 | 686 | 686 | 1473 | | |
| 12 q | 686 | 685 | 686 | 688 | 689 | 690 | 690 | 688 | 688 | 685 | 682 | 680 | 682 | 687 | 691 | 694 | 695 | 692 | 692 | 691 | 691 | 690 | 691 | 689 | 688 | 688 | 1522 | | |
| 13 d | 691 | 694 | 694 | 687 | 693 | 713 | 697 | 692 | 698 | 691 | 681 | 675 | 680 | 682 | 693 | 693 | 688 | 690 | 679 | 678 | 680 | 682 | 685 | 687 | 688 | 688 | 1523 | | |
| 14 d | 680 | 680 | 675 | 671 | 681 | 680 | 682 | 680 | 686 | 685 | 682 | 692 | 692 | 715 | 1035 | 1030 | 1022 | 807 | 737 | 649 | 629 | 626 | 656 | 727 | 2452 | 652 | 652 | | |
| 15 | 589 | 602 | 629 | 642 | 649 | 652 | 655 | 658 | 659 | 659 | 653 | 659 | 655 | 662 | 669 | 677 | 667 | 648 | 655 | 661 | 661 | 660 | 666 | 665 | 652 | 652 | 652 | | |
| 16 | 670 | 670 | 670 | 668 | 673 | 674 | 672 | 673 | 673 | 666 | 661 | 658 | 660 | 667 | 669 | 672 | 679 | 684 | 687 | 681 | 675 | 669 | 669 | 678 | 672 | 672 | 1118 | | |
| 17 | 673 | 668 | 668 | 667 | 677 | 680 | 681 | 684 | 683 | 679 | 673 | 669 | 670 | 677 | 676 | 670 | 671 | 668 | 671 | 674 | 675 | 667 | 687 | 668 | 674 | 674 | 1176 | | |
| 18 | 672 | 676 | 674 | 673 | 675 | 676 | 677 | 683 | 681 | 675 | 674 | 673 | 676 | 677 | 679 | 681 | 683 | 684 | 683 | 681 | 680 | 683 | 680 | 678 | 678 | 678 | 1279 | | |
| 19 | 679 | 683 | 679 | 677 | 677 | 676 | 675 | 677 | 677 | 675 | 673 | 673 | 676 | 677 | 681 | 683 | 684 | 684 | 684 | 680 | 680 | 674 | 678 | 679 | 679 | 679 | 1286 | | |
| 20 | 681 | 680 | 677 | 677 | 677 | 680 | 683 | 680 | 679 | 680 | 677 | 674 | 677 | 677 | 678 | 677 | 680 | 686 | 686 | 689 | 660 | 669 | 671 | 677 | 677 | 677 | 1255 | | |
| 21 | 676 | 681 | 678 | 680 | 680 | 669 | 681 | 680 | 677 | 671 | 661 | 664 | 671 | 674 | 680 | 674 | 674 | 671 | 678 | 671 | 679 | 674 | 677 | 675 | 675 | 675 | 1199 | | |
| 22 | 677 | 673 | 673 | 677 | 678 | 693 | 689 | 684 | 684 | 684 | 683 | 683 | 678 | 682 | 680 | 681 | 680 | 678 | 676 | 678 | 666 | 648 | 665 | 660 | 677 | 677 | 677 | | |
| 23 | 668 | 673 | 669 | 671 | 677 | 680 | 682 | 686 | 683 | 677 | 671 | 666 | 666 | 671 | 675 | 681 | 684 | 683 | 683 | 680 | 680 | 678 | 684 | 677 | 677 | 677 | 1237 | | |
| 24 | 674 | 670 | 680 | 677 | 683 | 591 | 684 | 675 | 663 | 667 | 664 | 671 | 672 | 674 | 677 | 679 | 680 | 683 | 678 | 675 | 677 | 676 | 676 | 676 | 676 | 676 | 1226 | | |
| 25 | 678 | 674 | 680 | 685 | 688 | 687 | 681 | 690 | 690 | 678 | 660 | 663 | 670 | 663 | 666 | 676 | 678 | 676 | 671 | 680 | 683 | 680 | 678 | 678 | 678 | 678 | 1268 | | |
| 26 d | 673 | 659 | 661 | 670 | 683 | 690 | 694 | 686 | 676 | 673 | 659 | 665 | 670 | 667 | 677 | 656 | 660 | 677 | 694 | 670 | 667 | 691 | 697 | 654 | 674 | 674 | 1169 | | |
| 27 d | 651 | 633 | 658 | 672 | 676 | 654 | 673 | 667 | 659 | 650 | 651 | 659 | 670 | 670 | 683 | 674 | 679 | 687 | 684 | 673 | 670 | 687 | 651 | 670 | 667 | 667 | 1014 | | |
| 28 | 661 | 674 | 677 | 677 | 677 | 681 | 686 | 680 | 673 | 664 | 669 | 663 | 669 | 668 | 666 | 675 | 681 | 674 | 677 | 679 | 677 | 680 | 674 | 674 | 674 | 1183 | | | |
| 29 | 676 | 677 | 678 | 683 | 687 | 685 | 685 | 683 | 678 | 676 | 675 | 674 | 676 | 673 | 677 | 681 | 684 | 684 | 680 | 683 | 683 | 681 | 689 | 680 | 680 | 680 | 1328 | | |
| 30 | 682 | 681 | 681 | 684 | 685 | 691 | 693 | 693 | 689 | 680 | 672 | 670 | 667 | 667 | 671 | 671 | 674 | 680 | 680 | 684 | 687 | 687 | 680 | 680 | 680 | 680 | 1320 | | |
| 31 q | 684 | 681 | 681 | 684 | 685 | 687 | 687 | 687 | 685 | 680 | 680 | 677 | 678 | 683 | 682 | 678 | 680 | 687 | 690 | 692 | 692 | 692 | 688 | 684 | 684 | 684 | 1424 | | |
| Mean | 674 | 674 | 675 | 677 | 679 | 682 | 683 | 682 | 679 | 676 | 672 | 672 | 674 | 676 | 680 | 691 | 692 | 692 | 685 | 683 | 677 | 677 | 678 | 680 | 680 | 680 | 680 | | |
| Sum 20,000γ+ | 890 | 901 | 933 | 1002 | 1066 | 1143 | 1181 | 1135 | 1057 | 948 | 843 | 827 | 884 | 947 | 1069 | 1408 | 1446 | 1449 | 1234 | 1169 | 1004 | 998 | 1001 | 1028 | | | Grand Total 505,563 | | |

702 at 0-1h 1 January 1967.

GEO MAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 2 LERWICK (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | DECEMBER 1966 | | |
|---------------|------|------|------|------|------|------|------|--------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|------|----------------|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 300.0°+ |
| 1 | | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , | , |
| 2 | | 14.8 | 17.3 | 18.4 | 10.8 | 14.5 | 18.1 | 17.6 | 16.0 | 13.7 | 16.6 | 16.2 | 18.9 | 19.3 | 18.4 | 16.4 | 18.6 | 18.9 | 17.2 | 13.1 | 12.8 | 10.9 | 10.5 | 13.6 | 14.7 | 15.7 | 77.3 | |
| 3 q | | 16.7 | 16.5 | 14.7 | 16.6 | 16.9 | 16.0 | 15.0 | 15.6 | 15.5 | 16.3 | 17.3 | 17.9 | 18.1 | 18.1 | 18.2 | 17.9 | 17.5 | 17.5 | 14.8 | 15.7 | 15.6 | 15.6 | 16.1 | 16.1 | 16.1 | 86.3 | |
| 4 | | 13.4 | 15.7 | 16.6 | 16.7 | 16.7 | 16.6 | 16.5 | 16.0 | 16.4 | 16.6 | 17.7 | 18.9 | 18.9 | 18.5 | 18.2 | 18.1 | 17.7 | 17.4 | 16.8 | 16.3 | 16.3 | 15.7 | 16.6 | 16.6 | 16.6 | 99.4 | |
| 5 d | | 11.5 | 15.8 | 11.1 | 13.5 | 11.5 | 16.1 | 15.2</ | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

3 LERWICK (Z)

47,000 γ (0.47 CGS unit) +

DECEMBER 1966

| | Hour GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000 γ † |
|-----------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-----------------------|
| 1 | 433 | 424 | 404 | 419 | 426 | 410 | 426 | 440 | 451 | 450 | 451 | 451 | 451 | 451 | 461 | 469 | 467 | 461 | 462 | 463 | 471 | 447 | 443 | 447 | 440 | 444 | 667 |
| 2 | 435 | 422 | 430 | 440 | 443 | 446 | 447 | 446 | 444 | 442 | 439 | 439 | 441 | 444 | 446 | 454 | 454 | 454 | 461 | 461 | 459 | 454 | 449 | 437 | 445 | 687 | |
| 3 q | 437 | 438 | 440 | 442 | 442 | 445 | 445 | 445 | 444 | 444 | 445 | 443 | 440 | 443 | 444 | 446 | 446 | 446 | 448 | 447 | 447 | 447 | 443 | 444 | 444 | 444 | 654 |
| 4 | 440 | 433 | 435 | 437 | 437 | 437 | 437 | 437 | 422 | 421 | 422 | 424 | 431 | 439 | 443 | 446 | 453 | 454 | 470 | 477 | 491 | 485 | 460 | 440 | 431 | 445 | 685 |
| 5 d | 434 | 427 | 422 | 434 | 439 | 437 | 437 | 440 | 443 | 443 | 445 | 445 | 446 | 446 | 450 | 450 | 451 | 466 | 492 | 487 | 478 | 484 | 476 | 468 | 452 | 840 | |
| 6 | 449 | 436 | 429 | 434 | 446 | 451 | 452 | 452 | 455 | 454 | 454 | 454 | 454 | 454 | 455 | 457 | 454 | 453 | 456 | 457 | 459 | 459 | 457 | 454 | 451 | 834 | |
| 7 | 453 | 451 | 450 | 447 | 446 | 446 | 448 | 449 | 449 | 446 | 447 | 448 | 450 | 450 | 451 | 451 | 451 | 448 | 448 | 447 | 451 | 452 | 451 | 450 | 449 | 780 | |
| 8 | 450 | 450 | 448 | 446 | 446 | 444 | 444 | 444 | 443 | 444 | 444 | 444 | 443 | 449 | 449 | 448 | 448 | 447 | 446 | 448 | 448 | 454 | 444 | 447 | 446 | 718 | |
| 9 q | 441 | 447 | 448 | 447 | 446 | 446 | 443 | 444 | 444 | 444 | 446 | 447 | 447 | 448 | 448 | 447 | 446 | 446 | 445 | 445 | 446 | 447 | 449 | 446 | 446 | 700 | |
| 10 | 450 | 449 | 448 | 447 | 446 | 444 | 443 | 440 | 440 | 442 | 442 | 443 | 444 | 446 | 448 | 448 | 446 | 444 | 444 | 449 | 451 | 447 | 447 | 446 | 446 | 693 | |
| 11 q | 447 | 449 | 448 | 447 | 445 | 443 | 441 | 442 | 442 | 442 | 442 | 442 | 442 | 442 | 446 | 448 | 448 | 448 | 448 | 445 | 446 | 444 | 445 | 445 | 445 | 445 | 683 |
| 12 q | 446 | 447 | 446 | 445 | 443 | 440 | 438 | 437 | 438 | 437 | 436 | 436 | 436 | 438 | 441 | 444 | 444 | 444 | 443 | 444 | 444 | 444 | 446 | 442 | 442 | 611 | |
| 13 d | 445 | 443 | 439 | 441 | 426 | 412 | 422 | 418 | 413 | 424 | 429 | 434 | 434 | 434 | 438 | 443 | 460 | 478 | 468 | 462 | 456 | 454 | 450 | 447 | 441 | 583 | |
| 14 d | 446 | 447 | 447 | 448 | 447 | 446 | 448 | 444 | 443 | 440 | 440 | 437 | 437 | 446 | 525 | 583 | 592 | 522 | 450 | 412 | 446 | 420 | 315 | 439 | 1010 | | |
| 15 | 293 | 297 | 358 | 407 | 425 | 437 | 448 | 450 | 450 | 452 | 451 | 456 | 458 | 460 | 461 | 469 | 491 | 475 | 462 | 462 | 459 | 445 | 433 | 435 | 451 | 451 | |
| 16 | 422 | 431 | 444 | 449 | 451 | 452 | 455 | 454 | 454 | 455 | 454 | 457 | 456 | 456 | 456 | 457 | 454 | 454 | 457 | 466 | 471 | 464 | 452 | 453 | 453 | 877 | |
| 17 | 449 | 451 | 451 | 452 | 452 | 455 | 454 | 453 | 452 | 458 | 448 | 446 | 443 | 445 | 451 | 460 | 464 | 467 | 471 | 471 | 470 | 479 | 445 | 447 | 455 | 926 | |
| 18 | 451 | 451 | 452 | 452 | 450 | 448 | 449 | 448 | 448 | 451 | 450 | 448 | 446 | 448 | 451 | 452 | 453 | 453 | 454 | 459 | 460 | 461 | 458 | 457 | 452 | 850 | |
| 19 | 455 | 451 | 451 | 450 | 451 | 452 | 452 | 452 | 453 | 451 | 450 | 450 | 450 | 450 | 449 | 450 | 451 | 452 | 453 | 453 | 454 | 458 | 461 | 460 | 457 | 453 | 866 |
| 20 | 454 | 453 | 452 | 451 | 451 | 451 | 451 | 451 | 451 | 452 | 453 | 451 | 451 | 450 | 450 | 454 | 454 | 454 | 452 | 453 | 458 | 454 | 455 | 454 | 452 | 858 | |
| 21 | 431 | 423 | 433 | 438 | 441 | 445 | 434 | 445 | 450 | 453 | 455 | 456 | 454 | 454 | 455 | 462 | 465 | 466 | 479 | 488 | 473 | 465 | 460 | 454 | 454 | 890 | |
| 22 | 455 | 454 | 452 | 451 | 452 | 445 | 444 | 446 | 446 | 447 | 448 | 451 | 452 | 454 | 456 | 457 | 459 | 462 | 456 | 457 | 439 | 443 | 451 | 451 | 451 | 825 | |
| 23 | 443 | 448 | 448 | 451 | 449 | 449 | 449 | 448 | 448 | 450 | 451 | 455 | 453 | 452 | 452 | 457 | 460 | 460 | 464 | 467 | 460 | 464 | 452 | 452 | 452 | 854 | |
| 24 | 437 | 431 | 434 | 444 | 446 | 444 | 440 | 439 | 451 | 452 | 454 | 463 | 461 | 459 | 459 | 456 | 456 | 457 | 461 | 456 | 453 | 453 | 448 | 450 | 450 | 810 | |
| 25 | 443 | 439 | 435 | 443 | 443 | 443 | 443 | 442 | 443 | 448 | 450 | 455 | 455 | 462 | 467 | 468 | 470 | 469 | 473 | 462 | 457 | 458 | 455 | 454 | 452 | 857 | |
| 26 d | 414 | 397 | 397 | 430 | 438 | 438 | 437 | 435 | 439 | 441 | 457 | 468 | 472 | 478 | 477 | 532 | 532 | 517 | 486 | 461 | 472 | 428 | 350 | 365 | 448 | 761 | |
| 27 d | 386 | 384 | 374 | 409 | 427 | 418 | 419 | 435 | 441 | 455 | 462 | 471 | 479 | 511 | 485 | 475 | 484 | 504 | 481 | 481 | 469 | 402 | 394 | 420 | 444 | 666 | |
| 28 | 426 | 420 | 440 | 449 | 451 | 451 | 449 | 449 | 451 | 456 | 456 | 459 | 467 | 477 | 496 | 476 | 467 | 476 | 480 | 458 | 462 | 457 | 445 | 417 | 456 | 934 | |
| 29 | 434 | 444 | 447 | 448 | 449 | 450 | 449 | 449 | 448 | 448 | 449 | 447 | 450 | 451 | 455 | 458 | 457 | 457 | 460 | 458 | 455 | 454 | 447 | 446 | 450 | 810 | |
| 30 | 446 | 448 | 450 | 451 | 451 | 450 | 448 | 448 | 447 | 446 | 448 | 450 | 452 | 455 | 461 | 470 | 457 | 470 | 462 | 459 | 457 | 453 | 449 | 446 | 453 | 874 | |
| 31 q | 446 | 446 | 447 | 448 | 450 | 450 | 450 | 449 | 449 | 447 | 446 | 446 | 446 | 446 | 447 | 451 | 455 | 455 | 455 | 454 | 453 | 450 | 450 | 450 | 450 | 794 | |
| Mean | 435 | 433 | 435 | 442 | 444 | 443 | 443 | 444 | 445 | 446 | 447 | 449 | 450 | 453 | 458 | 463 | 464 | 464 | 463 | 460 | 457 | 453 | 445 | 438 | 449 | 449 | |
| Sum 13,000 γ † | 491 | 431 | 499 | 698 | 757 | 727 | 743 | 777 | 791 | 829 | 864 | 914 | 946 | 1056 | 1195 | 1345 | 1373 | 1379 | 1352 | 1249 | 1181 | 1055 | 805 | 591 | | Grand Total 334,048 | |

441 at 0-1h 1 January 1966.

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH HOUSE

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph house °C |
|------|---------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--------------------------------------|
| 1 | 3321 2142 | 18 | 2211 1131 | 12 | 3321 2142 | 18 | 3220 1132 | 14 | 1 | 13·8 |
| 2 | 2100 1013 | 8 | 1000 1001 | 3 | 2100 0013 | 7 | 2110 0001 | 5 | 1 | 14·7 |
| 3 q | 2000 0002 | 4 | 0000 0002 | 2 | 2000 0002 | 4 | 0000 0000 | 0 | 0 | 14·0 |
| 4 | 2133 2233 | 19 | 1132 2122 | 14 | 2023 2233 | 17 | 1021 1233 | 13 | 1 | 14·0 |
| 5 d | 3222 1353 | 21 | 2222 0331 | 15 | 3221 1253 | 19 | 2111 0222 | 11 | 1 | 13·4 |
| 6 | 2120 0012 | 8 | 2110 0001 | 5 | 2120 0012 | 8 | 2200 0000 | 4 | 1 | 13·3 |
| 7 | 0000 0011 | 2 | 0000 0001 | 1 | 0000 0011 | 2 | 0000 0000 | 0 | 0 | 14·0 |
| 8 | 0000 0002 | 2 | 0000 0002 | 2 | 0000 0002 | 2 | 0000 0002 | 2 | 1 | 14·4 |
| 9 q | 2000 0000 | 2 | 0000 0000 | 0 | 2000 0000 | 2 | 1000 0000 | 1 | 0 | 13·9 |
| 10 | 0000 0011 | 2 | 0000 0011 | 2 | 0000 0010 | 1 | 0000 0000 | 0 | 0 | 14·2 |
| 11 q | 0000 0000 | 0 | 0000 0000 | 0 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 13·9 |
| 12 q | 0000 0000 | 0 | 0000 0000 | 0 | 0000 0000 | 0 | 0000 0000 | 0 | 1 | 14·0 |
| 13 d | 1231 3412 | 17 | 1221 2411 | 14 | 1231 3312 | 16 | 0221 1210 | 9 | 1 | 14·3 |
| 14 d | 1212 5765 | 29 | 1211 5765 | 28 | 1212 4655 | 26 | 0010 5655 | 22 | 2 | 13·9 |
| 15 | 4212 2432 | 20 | 4212 2311 | 16 | 4212 1432 | 19 | 5310 1222 | 16 | 2 | 13·5 |
| 16 | 1112 2122 | 12 | 1110 2122 | 10 | 1002 1012 | 7 | 2000 0012 | 5 | 1 | 14·6 |
| 17 | 2200 1214 | 12 | 1200 1103 | 8 | 2000 0214 | 9 | 1000 1113 | 7 | 1 | 14·0 |
| 18 | 1111 0011 | 6 | 0010 0011 | 3 | 1101 0010 | 4 | 0000 0000 | 0 | 0 | 14·2 |
| 19 | 0010 0022 | 5 | 0000 0012 | 3 | 0010 0022 | 5 | 0000 0011 | 2 | 0 | 14·6 |
| 20 | 0000 1132 | 7 | 0000 1132 | 7 | 0000 1132 | 7 | 0000 0022 | 4 | 1 | 13·5 |
| 21 | 2221 1332 | 16 | 1211 1222 | 12 | 2221 0332 | 15</td | | | | |

MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS
For all, a, quiet, q, and disturbed, d, days for H , D and Z and for all days for X , $-Y$, I and F

| 5 LERWICK | | | | | | | | | | 1966 | | | |
|-----------|------------------------------|-----|----------------------------|----------|----------------------------|------|----------------------------------|------|----------------------------------|-------|--------------------------------------|---------|------------------------------|
| | Horizontal (H) component | | Declination (D) (west) | | Vertical (Z) component | | North component (X) all days | | West component ($-Y$) all days | | Inclination (I) (north) all days | | Total force (F) all days |
| | a | q | d | a | q | d | a | q | d | a | q | d | γ |
| | $14,000\gamma$ | $+$ | | | | | | | | | | | |
| Jan. | 665 | 668 | 659 | γ | γ | 19.7 | 19.9 | 19.4 | 419 | 416 | 422 | 14471 | 2377 |
| Feb. | 667 | 669 | 661 | 19.3 | 19.4 | 19.7 | 419 | 418 | 420 | 14473 | 2376 | 72 48.8 | 49635 |
| Mar. | 663 | 664 | 658 | 19.1 | 19.3 | 18.2 | 421 | 423 | 425 | 14470 | 2374 | 72 49.1 | 49636 |
| Apr. | 671 | 674 | 670 | 18.8 | 19.0 | 18.9 | 422 | 421 | 428 | 14478 | 2374 | 72 48.6 | 49640 |
| May | 674 | 679 | 672 | 18.5 | 18.8 | 18.2 | 425 | 422 | 431 | 14481 | 2373 | 72 48.4 | 49643 |
| June | 679 | 680 | 676 | 18.4 | 18.9 | 18.0 | 427 | 428 | 427 | 14486 | 2374 | 72 48.1 | 49647 |
| July | 677 | 678 | 663 | 17.7 | 17.7 | 17.4 | 424 | 429 | 410 | 14485 | 2371 | 72 48.2 | 49644 |
| Aug. | 678 | 679 | 670 | 17.3 | 17.7 | 16.1 | 431 | 434 | 427 | 14485 | 2369 | 72 48.3 | 49650 |
| Sept. | 658 | 669 | 609 | 16.1 | 16.6 | 13.8 | 441 | 445 | 428 | 14467 | 2361 | 72 49.8 | 49654 |
| Oct. | 672 | 675 | 661 | 16.4 | 16.5 | 16.6 | 443 | 442 | 442 | 14480 | 2364 | 72 49.0 | 49660 |
| Nov. | 678 | 684 | 670 | 16.3 | 16.5 | 16.0 | 447 | 445 | 448 | 14486 | 2365 | 72 48.6 | 49665 |
| Dec. | 680 | 685 | 686 | 15.9 | 16.6 | 15.3 | 449 | 445 | 449 | 14488 | 2364 | 72 48.6 | 49668 |
| Year | 672 | 675 | 663 | 17.8 | 18.1 | 17.3 | 431 | 431 | 430 | 14479 | 2370 | 72 48.7 | 49648 |

DIURNAL INEQUALITIES OF THE GEOMAGNETIC ELEMENTS

29

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

6 LERWICK

1966

| | Hour GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 |
|----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HORIZONTAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -0.9 | -3.0 | -2.6 | -0.7 | +1.6 | +4.3 | +5.0 | +4.8 | +3.4 | +0.4 | -2.1 | -2.9 | -2.4 | -0.6 | -0.7 | -0.4 | -0.9 | -1.3 | -0.6 | -0.5 | +0.5 | +0.8 | -0.2 | -0.9 | -0.9 |
| Feb. | -0.1 | -0.2 | +0.3 | +0.9 | +0.9 | +3.2 | +4.3 | +2.8 | +2.0 | -3.6 | -6.7 | -7.4 | -7.9 | -5.1 | -1.8 | +1.4 | +3.3 | +2.8 | +3.1 | +4.4 | +3.6 | +0.3 | -1.1 | +0.6 | -0.9 |
| Mar. | -5.4 | -1.7 | -1.4 | +1.0 | +2.7 | +3.6 | +1.4 | +0.1 | -6.3 | -15.3 | -20.2 | -18.0 | -13.5 | -6.6 | +1.8 | +12.6 | +16.7 | +16.4 | +12.1 | +5.6 | +5.7 | +5.9 | +5.0 | -2.2 | -2.2 |
| Apr. | +7.0 | +6.4 | +3.2 | +4.4 | +4.9 | +7.2 | +5.8 | +1.0 | -8.2 | -19.6 | -27.5 | -29.3 | -27.7 | -18.9 | -7.9 | +2.8 | +9.2 | +17.9 | +17.6 | +16.1 | +12.7 | +9.5 | +7.3 | +6.1 | +6.1 |
| May | +2.2 | +4.3 | +3.3 | +3.8 | +3.2 | +4.2 | -0.1 | -6.5 | -16.5 | -26.1 | -32.5 | -31.1 | -23.9 | -14.0 | -3.5 | +10.0 | +25.9 | +31.0 | +32.3 | +22.4 | +13.4 | +3.5 | -2.5 | -2.8 | -2.8 |
| June | +1.5 | +1.6 | -0.3 | +2.4 | +3.0 | +1.8 | -2.3 | -8.2 | -17.6 | -27.1 | -33.7 | -33.3 | -24.5 | -12.5 | -2.9 | +6.2 | +14.6 | +25.0 | +30.8 | +28.8 | +21.8 | +12.2 | +7.7 | +5.0 | +5.0 |
| July | -0.7 | -1.3 | -1.0 | -1.4 | -5.8 | -4.2 | -9.8 | -13.4 | -19.4 | -26.5 | -29.8 | -30.1 | -19.5 | -7.6 | +2.0 | +10.2 | +19.3 | +27.3 | +28.5 | +28.0 | +22.6 | +15.8 | +11.0 | +5.8 | +5.8 |
| Aug. | +1.0 | -4.7 | -2.1 | +0.8 | +2.4 | +2.3 | -2.4 | -10.2 | -19.1 | -27.5 | -31.4 | -29.5 | -21.6 | -5.6 | +4.9 | +12.0 | +18.6 | +26.9 | +31.6 | +25.2 | +15.4 | +1.5 | +6.2 | +5.3 | +5.3 |
| Sept. | -30.5 | -27.8 | -25.6 | -13.7 | -5.2 | -1.4 | -4.3 | -9.4 | -16.6 | -22.0 | -18.5 | -14.3 | -1.7 | +9.6 | +15.8 | +32.6 | +39.0 | +40.6 | +43.0 | +26.3 | +13.8 | -4.8 | -19.9 | -8.4 | -8.4 |
| Oct. | +4.7 | +1.4 | +1.9 | +1.4 | +5.3 | +5.1 | +5.9 | +2.0 | -2.3 | -13.5 | -18.9 | -20.3 | -16.0 | -8.5 | -2.6 | +0.6 | +5.9 | +7.9 | +8.2 | +9.5 | +9.4 | +8.6 | +5.7 | +1.4 | +1.4 |
| Nov. | -1.4 | -1.4 | 0.0 | +2.8 | +4.9 | +7.5 | +6.6 | +5.3 | +1.0 | -6.1 | -12.8 | -12.6 | -11.3 | -7.5 | -3.0 | +1.0 | +3.7 | +5.8 | +4.2 | +2.5 | +2.5 | +3.9 | +3.0 | +1.4 | +1.4 |
| Dec. | -5.6 | -5.4 | -4.2 | -2.0 | 0.0 | +2.4 | +3.8 | +2.3 | -0.2 | -3.9 | -7.1 | -5.8 | -3.9 | -0.1 | +11.1 | +12.3 | +12.3 | +5.5 | +3.4 | -2.0 | -2.2 | -2.0 | -1.2 | -1.2 | -1.2 |
| Year | -2.3 | -2.7 | -2.4 | 0.0 | +1.5 | +3.0 | +1.2 | -2.5 | -8.3 | -15.9 | -20.1 | -19.7 | -14.4 | -6.8 | +0.2 | +8.3 | +14.0 | +17.7 | +18.0 | +14.3 | +9.9 | +4.6 | +1.7 | +0.6 | +0.6 |
| Winter | -2.0 | -2.5 | -1.6 | +0.3 | +1.9 | +4.3 | +4.9 | +3.8 | +1.5 | -3.3 | -7.2 | -7.7 | -6.9 | -4.3 | -1.3 | +3.3 | +4.6 | +4.9 | +3.1 | +2.4 | +1.1 | +0.7 | -0.1 | 0.0 | 0.0 |
| Equinox | -6.1 | -5.4 | -5.5 | -1.7 | +1.9 | +3.6 | +2.2 | -1.6 | -8.3 | -17.6 | -21.3 | -20.5 | -13.9 | -6.1 | +1.8 | +12.1 | +17.7 | +20.7 | +20.2 | +14.4 | +10.4 | +4.8 | -0.5 | -1.5 | -1.5 |
| Summer | +1.0 | 0.0 | 0.0 | +1.4 | +0.7 | +1.0 | -3.7 | -9.6 | -18.1 | -26.8 | -31.9 | -31.0 | -22.4 | -9.9 | +0.1 | +9.6 | +19.6 | +27.5 | +30.8 | +26.1 | +18.3 | +8.3 | +5.6 | +3.3 | +3.3 |
| DECLINATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -1.70 | -0.90 | -0.25 | -0.56 | -0.62 | -0.49 | 0.00 | +0.17 | +0.06 | +0.20 | +0.92 | +1.62 | +2.25 | +2.80 | +2.11 | +1.88 | +1.25 | +0.83 | -0.06 | -0.51 | -2.78 | -2.01 | -2.21 | -2.00 | -2.00 |
| Feb. | -1.10 | -0.60 | -0.81 | -1.09 | -0.96 | -0.52 | -0.73 | -0.24 | -0.24 | +0.20 | +0.73 | +2.11 | +3.00 | +3.59 | +2.91 | +1.86 | +1.78 | +1.00 | +0.19 | -1.18 | -3.03 | -2.86 | -2.02 | -1.99 | -1.99 |
| Mar. | -2.36 | -2.23 | -2.55 | -3.24 | -2.13 | -1.06 | -1.28 | -1.47 | -2.05 | -1.32 | +0.46 | +3.07 | +5.31 | +6.20 | +5.25 | +3.49 | +2.62 | +1.70 | -0.04 | -0.33 | -1.76 | -3.32 | -2.91 | -2.91 | -2.91 |
| Apr. | -1.40 | -2.10 | -2.18 | -2.61 | -2.62 | -2.72 | -3.26 | -4.17 | -4.23 | -3.11 | -1.01 | +2.18 | +5.24 | +7.15 | +6.86 | +5.62 | +3.89 | +2.53 | +1.07 | +0.25 | -0.25 | -1.52 | -1.95 | -1.66 | -1.66 |
| May | -0.84 | -1.76 | -1.98 | -2.48 | -3.40 | -4.35 | -4.80 | -4.89 | -4.53 | -2.64 | -0.08 | +3.10 | +5.47 | +6.47 | +6.07 | +5.32 | +4.42 | +3.07 | +2.00 | +0.80 | -0.23 | -1.60 | -1.75 | -1.39 | -1.39 |
| June | -0.78 | -1.37 | -1.83 | -2.66 | -4.03 | -5.30 | -6.14 | -6.17 | -5.64 | -3.87 | -1.03 | +2.51 | +4.96 | +6.13 | +6.03 | +5.63 | +4.67 | +3.54 | +2.64 | +1.50 | +1.08 | +0.65 | -0.22 | -0.30 | -0.30 |
| July | -2.46 | -2.67 | -2.91 | -2.87 | -4.18 | -4.71 | -5.18 | -5.20 | -4.87 | -3.42 | -1.02 | +2.15 | +5.20 | +6.65 | +6.81 | +6.06 | +4.62 | +3.29 | +2.42 | +1.87 | +1.49 | +0.53 | -0.38 | -1.22 | -1.22 |
| Aug. | -1.99 | -1.88 | -1.73 | -3.15 | -3.92 | -5.01 | -5.73 | -5.52 | -4.71 | -2.76 | -0.36 | +3.93 | +6.34 | +8.07 | +7.61 | +5.93 | +3.85 | +2.74 | +1.17 | +1.30 | -0.71 | -0.87 | -1.27 | -2.05 | -2.05 |
| Sept. | -1.97 | -3.45 | -5.11 | -4.10 | -3.97 | -3.28 | -3.36 | -2.97 | -2.12 | -0.53 | +2.10 | +5.34 | +6.94 | +7.46 | +6.30 | +4.12 | +2.64 | +1.62 | +1.35 | +1.09 | -0.02 | -1.95 | -4.93 | -1.20 | -1.20 |
| Oct. | -2.33 | -2.09 | -1.65 | -1.90 | -1.19 | -1.15 | -1.30 | -1.56 | -1.82 | -1.03 | +0.91 | +3.50 | +4.73 | +5.31 | +5.03 | +3.91 | +2.18 | +0.72 | +0.26 | -0.25 | -1.76 | -2.32 | -3.25 | -2.95 | -2.95 |
| Nov. | -2.59 | -1.51 | -1.50 | -1.09 | -0.65 | -0.48 | +0.10 | -0.04 | -0.29 | -0.18 | +0.67 | +2.10 | +3.34 | +3.77 | +3.28 | +2.56 | +1.94 | +1.36 | +0.49 | -0.76 | -1.60 | -3.20 | -3.16 | -2.56 | -2.56 |
| Dec. | -1.87 | -1.17 | -0.85 | -0.39 | -0.63 | -0.19 | +0.18 | +0.79 | +0.51 | +0.68 | +0.95 | +2.01 | +2.63 | +2.90 | +2.97 | +2.69 | +1.93 | +0.94 | -0.83 | -1.80 | -2.15 | -3.45 | -2.91 | -2.94 | -2.94 |
| Year | -1.78 | -1.81 | -1.95 | -2.18 | -2.36 | -2.44 | -2.63 | -2.61 | -2.49 | -1.48 | +0.33 | +2.80 | +4.62 | +5.54 | +5.10 | +4.09 | +2.98 | +1.95 | +0.89 | +0.17 | -0.83 | -1.70 | -2.28 | -1.93 | -1.93 |
| Winter | -1.81 | -1.05 | -0.85 | -0.78 | -0.71 | -0.42 | -0.11 | +0.17 | +0.01 | +0.23 | +0.82 | +1.96 | +2.81 | +3.27 | +2.82 | +2.25 | +1.73 | +1.03 | -0.05 | -1.06 | -2.39 | -2.88 | -2.57 | -2.37 | -2.37 |
| Equinox | -2.01 | -2.47 | -2.87 | -2.96 | -2.48 | -2.05 | -2.30 | -2.54 | -2.55 | -1.50 | +0.61 | +3.52 | +5.55 | +6.53 | +5.86 | +4.29 | +2.83 | +1.64 | +0.66 | +0.19 | -0.52 | -1.89 | -3.36 | -2.18 | -2.18 |
| Summer | -1.52 | -1.92 | -2.11 | -2.79 | -3.88 | -4.84 | -5.46 | -5.45 | -4.94 | -3.17 | -0.44 | +2.92 | +5.49 | +6.83 | +6.63 | +5.73 | +4.39 | +3.16 | +2.06 | +1.37 | +0.41 | -0.32 | -0.91 | -1.24 | -1.24 |
| VERTICAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -4.7 | -5.2 | -5.4 | -3.8 | -4.1 | -4.7 | -5.1 | -4.8 | -4.3 | -4.1 | -3.4 | -3.2 | -3.0 | -1.4 | +4.4 | +6.4 | +7.3 | +9.9 | +9.1 | +10.4 | +8.8 | +3.4 | -0.2 | -2.3 | -2.3 |
| Feb. | -6.6 | -7.8 | -6.9 | -5.1 | -7.0 | -8.5 | -7.4 | -5.2 | -4.2 | -3.5 | -2.9 | -2.6 | -0.5 | +2.5 | +6.5 | +9.1 | +12.8 | +14.7 | +11.4 | +12.0 | +7.6 | +1.4 | -2.6 | -7.2 | -7.2 |
| Mar. | -11.8 | -15.7 | -14.1 | -15.2 | -15.9 | -12.1 | -9.0 | -4.0 | -1.5 | -0.5 | -0.4 | +1.2 | +2.5 | +4.6 | +9.4 | +17.1 | +18.5 | +20.3 | +17.2 | +10.0 | +5.8 | +1.9 | -9.7 | -9.7 | -9.7 |
| Apr. | -8.9 | -10.4 | -11.6 | -9.8 | -7.1 | -6.1 | -4.8 | -3.5 | -3.4 | -3.4 | -4.1 | -5.9 | -6.4 | -2.8 | +2.5 | +9.2 | +15.7 | +19.4 | +18.8 | +15.2 | +10.6 | +4.0 | -1.7 | -5.5 | -5.5 |
| May | -9.6 | -11.1 | -8.5 | -7.8 | -9.5 | -7.2 | -4.0 | -2.4 | -3.2 | -5.8 | -6.7 | -8.6 | -5.8 | -3.4 | +2.2 | +6.7 | +12.5 | +15.1 | +20.4 | +14.4 | +13.0 | +10.3 | +4.6 | +5.6 | +5.6 |
| June | -9.0 | -6.0 | -7.0 | -5.7 | -3.8 | -2.7 | -1.5 | -0.5 | -1.9 | -3.3 | -4.7 | -7.1 | -8.7 | -6.3 | -1.1 | +3.7 | +7.5 | +9.8 | +11.2 | +13.9 | +12.0 | +9.0 | +4.1 | -1.9 | -1.9 |
| July | -12.7 | -17.7 | -16.6 | -16.5 | -15.2 | -12.3 | -7.8 | -3.8 | -0.9 | +0.5 | +0.2 | -1.5 | -0.2 | +3.9 | +8.4 | +13.0 | +15.9 | +17.5 | +17.5 | +15.8 | +12.4 | +3.0 | -3.9 | -3.9 | |
| Aug. | -17.2 | -20.4 | -18.6 | -14.7 | -8.6 | -4.7 | -1.1 | +1.1 | -0.1 | -1.3 | -2.4 | -2.9 | -1.9 | -0.4 | +6.2 | +12.4 | +17.3 | +21.0 | +23.9 | +19.0 | +9.3 | -0.4 | -4.1 | -11.6 | |
| Sept. | -22.6 | -17.7 | -23.5 | -39.1 | -22.5 | -20.2 | -9.8 | -3.6 | +0.1 | +2.4 | +3.6 | +2.8 | +6.1 | +11.9 | +18.7 | +29.5 | +34.7 | +35.5 | +29.7 | +24.2 | +9.5 | -7.9 | -13.1 | -28.7 | |
| Oct. | -16.2 | -14.6 | -14.0 | -11.5 | -9.9 | -9.7 | -7.0 | -4.3 | -2.3 | -0.6 | +0.1 | +1.0 | +3.2 | +7.7 | +11.1 | +15.5 | +18.7 | +18.6 | +12.5 | +8.3 | +6.6 | +4.3 | -3.6 | -13.9 | |
| Nov. | -13.1 | -14.5 | -11.2 | -9.5 | -8 | | | | | | | | | | | | | | | | | | | | |

DIURNAL INEQUALITIES OF THE GEOMAGNETIC ELEMENTS

INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

7 LERWICK

1966

| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | |
| HORIZONTAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -2.7 | -2.6 | -2.7 | -1.4 | 0.0 | +1.5 | +3.2 | +2.2 | -0.5 | -2.8 | -3.3 | -2.8 | -2.5 | +0.2 | +0.9 | +0.8 | +1.0 | +1.3 | +2.6 | +3.0 | +1.9 | +1.4 | +1.3 | 0.0 | |
| Feb. | +0.1 | -0.6 | -0.3 | -0.2 | +1.8 | +2.5 | +3.2 | +2.8 | +0.1 | -2.6 | -5.1 | -7.2 | -7.9 | -3.6 | +0.3 | +1.4 | +1.0 | +1.2 | +3.4 | +2.5 | +3.0 | +1.9 | +1.9 | +2.2 | |
| Mar. | +1.4 | +0.1 | +1.0 | +1.5 | +2.1 | +3.4 | +3.5 | +1.9 | -3.8 | -11.3 | -16.2 | -18.5 | -14.2 | -6.3 | -0.6 | +3.7 | +4.0 | +5.3 | +7.7 | +8.0 | +8.7 | +7.2 | +7.7 | +7.7 | |
| Apr. | +8.6 | +7.9 | +8.0 | +7.8 | +7.8 | +5.0 | +0.2 | -9.2 | -22.5 | -33.2 | -35.4 | -31.2 | -20.9 | -9.8 | +1.2 | +8.0 | +13.3 | +16.8 | +17.0 | +14.4 | +13.7 | +13.2 | +12.4 | +12.4 | |
| May | +4.8 | +4.4 | +4.6 | +5.6 | +6.8 | +7.2 | +4.0 | -3.0 | -13.6 | -21.6 | -29.0 | -30.6 | -27.4 | -22.2 | -12.4 | -0.6 | +9.6 | +18.0 | +22.0 | +22.6 | +16.6 | +13.6 | +11.6 | +9.0 | |
| June | +4.1 | +3.7 | +2.2 | +2.9 | +4.1 | +4.9 | +2.7 | -4.9 | -16.4 | -28.7 | -36.3 | -36.5 | -30.1 | -17.3 | -10.6 | +0.9 | +11.7 | +20.3 | +27.1 | +28.7 | +23.0 | +17.9 | +14.9 | +11.7 | |
| July | +5.6 | +4.5 | +4.0 | +6.1 | +5.4 | +0.9 | -4.8 | -10.1 | -17.2 | -26.1 | -31.8 | -31.1 | -24.2 | -17.3 | -5.8 | +1.7 | +10.2 | +18.9 | +24.6 | +23.7 | +21.6 | +16.9 | +13.0 | +11.3 | |
| Aug. | +6.8 | +3.5 | +3.2 | +5.4 | +5.4 | +2.3 | -2.4 | -11.2 | -20.6 | -30.3 | -32.8 | -30.0 | -20.2 | -7.1 | +4.8 | +13.4 | +16.6 | +12.9 | +17.2 | +15.8 | +13.0 | +12.7 | +10.2 | +11.4 | |
| Sept. | +5.9 | +3.4 | +5.1 | +3.4 | +2.9 | -0.2 | -5.1 | -13.2 | -22.7 | -26.4 | -24.9 | -17.4 | -9.5 | -2.6 | +5.3 | +4.4 | +8.3 | +11.6 | +11.1 | +14.2 | +13.1 | +11.8 | +10.9 | +10.6 | |
| Oct. | +4.7 | +3.4 | +3.1 | +3.7 | +3.5 | +3.8 | +4.5 | +2.3 | -1.5 | -10.6 | -17.7 | -18.9 | -17.5 | -14.4 | -7.9 | -2.9 | +2.7 | +6.2 | +9.3 | +10.1 | +9.9 | +8.0 | +7.5 | +7.5 | |
| Nov. | -2.9 | -3.7 | -3.2 | +0.5 | +2.1 | +3.3 | +2.5 | +1.5 | -1.8 | -6.3 | -8.3 | -9.1 | -9.1 | -6.3 | -2.0 | +0.7 | +4.7 | +5.1 | +6.9 | +6.7 | +6.8 | +4.9 | +3.5 | +3.5 | |
| Dec. | -1.0 | -3.1 | -6.6 | -0.6 | +1.2 | +3.1 | +3.6 | +1.8 | -0.2 | -3.9 | -7.0 | -8.6 | -6.4 | -2.5 | 0.0 | +1.2 | +2.4 | +3.9 | +4.2 | +4.8 | +5.0 | +4.1 | +2.4 | +2.2 | |
| Year | +2.9 | +1.7 | +1.5 | +2.9 | +3.6 | +3.3 | +1.7 | -2.5 | -8.9 | -16.1 | -20.5 | -20.5 | -16.7 | -10.0 | -3.1 | +2.2 | +6.7 | +9.6 | +12.4 | +13.1 | +11.3 | +9.7 | +8.2 | +7.5 | |
| Winter | -1.6 | -2.5 | -3.2 | -0.4 | +1.3 | +2.6 | +3.1 | +2.1 | -0.6 | -3.9 | -5.9 | -6.9 | -6.5 | -3.1 | -0.2 | +1.0 | +2.3 | +2.6 | +3.7 | +4.5 | +4.1 | +3.3 | +2.3 | +2.0 | |
| Equinox | +5.1 | +3.7 | +4.3 | +4.1 | +4.1 | +3.6 | +2.0 | -2.3 | -9.3 | -17.7 | -23.0 | -22.5 | -18.1 | -11.1 | -3.3 | +1.6 | +5.7 | +8.8 | +10.6 | +12.3 | +11.3 | +10.5 | +10.0 | +9.5 | |
| Summer | +5.3 | +4.0 | +3.5 | +5.0 | +5.4 | +3.8 | -0.1 | -7.3 | -16.9 | -26.7 | -32.5 | -32.1 | -25.5 | -16.0 | -6.0 | +3.9 | +12.0 | +17.5 | +22.7 | +22.7 | +18.5 | +15.3 | +12.4 | +10.9 | |
| DECLINATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -0.91 | -0.72 | -0.41 | -0.77 | -0.69 | -0.18 | -0.39 | -0.53 | -0.45 | +0.14 | +0.81 | +1.25 | +1.65 | +1.66 | +1.31 | +0.55 | +0.51 | +0.32 | +0.17 | -0.15 | -0.49 | -0.76 | -1.03 | -0.89 | |
| Feb. | -0.95 | -0.65 | -0.69 | -1.03 | -1.29 | -1.14 | -0.97 | -0.91 | -1.03 | -0.65 | +0.03 | +1.11 | +2.07 | +2.51 | +1.95 | +1.07 | +0.75 | +0.44 | +0.49 | +0.49 | -0.01 | -0.47 | -0.55 | -0.57 | |
| Mar. | -0.89 | +0.07 | -1.34 | -2.13 | -2.41 | -2.37 | -2.11 | -2.03 | -2.26 | -1.59 | +0.39 | +2.39 | +3.97 | +4.39 | +3.40 | +2.13 | +1.03 | +0.55 | +0.05 | +0.07 | -0.04 | -0.23 | -0.49 | -0.55 | |
| Apr. | -0.16 | -0.46 | -0.99 | -1.58 | -2.22 | -3.08 | -4.20 | -4.78 | -4.51 | -3.58 | -1.54 | +1.60 | +4.48 | +5.50 | +4.89 | +3.72 | +2.42 | +1.48 | +0.96 | +0.62 | +0.27 | +0.36 | +0.48 | +0.32 | |
| May | -0.35 | -0.70 | -1.13 | -1.99 | -2.91 | -3.76 | -4.11 | -4.63 | -4.75 | -3.40 | -1.29 | +1.31 | +3.89 | +5.04 | +5.41 | +4.51 | +3.07 | +1.84 | +1.11 | +0.77 | +0.61 | +0.32 | +0.63 | +0.51 | |
| June | +0.21 | -0.69 | -1.24 | -2.29 | -3.31 | -4.95 | -5.79 | -6.71 | -6.42 | -3.75 | -0.37 | +2.73 | +5.07 | +5.77 | +5.48 | +4.55 | +3.43 | +2.13 | +1.35 | +1.41 | +1.70 | +1.23 | +0.23 | +0.23 | |
| July | -0.20 | -1.08 | -1.49 | -2.38 | -3.56 | -4.74 | -5.24 | -5.72 | -5.11 | -3.66 | -1.34 | +1.30 | +3.80 | +4.42 | +5.35 | +4.90 | +3.88 | +2.94 | +2.28 | +1.84 | +1.19 | +1.32 | +1.14 | +0.16 | |
| Aug. | -0.98 | -0.04 | -1.21 | -2.38 | -3.98 | -5.08 | -6.00 | -5.76 | -4.99 | -2.82 | +0.16 | +3.64 | +6.34 | +7.12 | +6.17 | +4.74 | +2.34 | +0.58 | -0.04 | +0.08 | +0.67 | +1.06 | +0.66 | -0.28 | |
| Sept. | -0.70 | -0.43 | -1.88 | -2.62 | -2.54 | -2.85 | -3.00 | -3.30 | -2.82 | -0.77 | +1.58 | +4.28 | +5.46 | +4.89 | +3.78 | +1.62 | +0.14 | +0.27 | +0.32 | +0.54 | +0.10 | -0.45 | -0.82 | -0.80 | |
| Oct. | -1.94 | -1.74 | -1.44 | -1.36 | -1.22 | -1.71 | -2.10 | -2.48 | -2.72 | -2.06 | -0.32 | +2.12 | +3.34 | +3.68 | +3.82 | +3.02 | +2.08 | +1.49 | +1.22 | +0.74 | +0.58 | +0.12 | -1.34 | -1.78 | |
| Nov. | -2.04 | -1.27 | -0.78 | -0.65 | -0.42 | -0.71 | -0.94 | -1.07 | -1.36 | -1.15 | 0.00 | +1.25 | +2.10 | +2.39 | +2.20 | +1.77 | +1.52 | +1.23 | +0.72 | +0.39 | -0.34 | -0.53 | -0.84 | -1.47 | |
| Dec. | -1.56 | -0.99 | -0.46 | -0.61 | -0.55 | -0.58 | -0.61 | -0.82 | -0.35 | +0.24 | +1.27 | +2.14 | +2.14 | +2.27 | +1.94 | +1.37 | +1.06 | +0.79 | +0.44 | +0.01 | -0.44 | -0.87 | -1.24 | -1.81 | |
| Year | -0.87 | -0.73 | -1.09 | -1.65 | -2.10 | -2.59 | -2.95 | -3.21 | -3.10 | -1.97 | -0.14 | +2.02 | +3.69 | +4.14 | +3.81 | +2.83 | +1.85 | +1.1 | +0.76 | +0.57 | +0.32 | +0.09 | -0.26 | -0.58 | |
| Winter | -1.37 | -0.91 | -0.59 | -0.77 | -0.76 | -0.65 | -0.72 | -0.78 | -0.91 | -0.50 | +0.27 | +1.22 | +1.99 | +2.21 | +1.85 | +1.19 | +0.96 | +0.69 | +0.45 | +0.19 | -0.32 | -0.66 | -0.91 | -1.19 | |
| Equinox | -0.92 | -0.64 | -1.41 | -1.92 | -2.10 | -2.50 | -2.85 | -3.15 | -3.08 | -2.00 | +0.03 | +2.60 | +4.31 | +4.61 | +3.97 | +2.62 | +1.42 | +0.95 | +0.64 | +0.49 | +0.23 | -0.05 | -0.54 | -0.70 | |
| Summer | -0.33 | -0.63 | -1.27 | -2.26 | -3.44 | -4.63 | -5.29 | -5.71 | -5.32 | -3.41 | -0.71 | +2.25 | +4.77 | +5.59 | +5.60 | +4.67 | +3.18 | +1.87 | +1.17 | +1.03 | +1.04 | +0.98 | +0.67 | +0.15 | |
| VERTICAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +0.5 | -0.9 | -2.5 | -2.3 | -2.1 | -1.8 | -1.3 | -0.5 | +0.3 | +0.3 | +0.5 | -0.1 | -1.3 | -1.7 | -0.9 | -0.1 | +0.7 | +0.6 | +1.1 | +1.5 | +2.5 | +3.1 | +2.5 | +1.9 | |
| Feb. | -1.8 | -1.9 | -2.8 | -2.5 | -2.0 | -1.3 | -1.2 | -0.7 | -0.2 | -0.9 | -1.8 | -1.5 | -1.4 | -0.9 | -0.2 | +0.7 | +1.8 | +3.3 | +2.8 | +2.5 | +3.0 | +2.9 | +2.6 | +1.5 | |
| Mar. | +5.2 | +0.9 | -1.0 | +0.2 | +0.2 | -1.3 | -1.4 | -2.0 | -2.2 | -2.3 | -4.2 | -4.2 | -4.2 | -3.1 | -0.2 | +2.4 | +3.2 | +3.9 | +3.4 | +2.4 | +2.0 | +0.7 | +1.0 | +0.6 | |
| Apr. | -0.6 | +0.7 | +2.0 | +3.1 | +4.2 | +4.3 | +3.8 | +1.9 | 0.0 | -2.5 | -4.8 | -7.9 | -9.8 | -9.9 | -7.0 | -2.9 | +0.8 | +3.9 | +5.0 | +5.3 | +5.0 | +3.1 | +1.6 | +0.7 | |
| May | +2.0 | +2.2 | +3.1 | +4.4 | +4.2 | +3.8 | +4.6 | +4.2 | +2.1 | -2.8 | -6.0 | -10.6 | -11.2 | -10.4 | -6.9 | -4.8 | -1.2 | +1.4 | +4.0 | +5.4 | +5.5 | +3.8 | +2.2 | +1.0 | |
| June | -0.9 | +0.1 | +1.8 | +2.5 | +2.3 | +2.7 | +2.5 | -0.4 | -3.7 | -5.5 | -7.9 | -9.3 | -7.9 | -5.8 | -1.7 | -0.3 | +2.7 | +8.7 | +7.8 | +4.7 | +1.3 | -0.7 | | | |
| July | +2.2 | +1.9 | +1.4 | +1.2 | +1.4 | +2.3 | +0.4 | +0.2 | -0.8 | -3.5 | -4.8 | -7.4 | -9.6 | -8.7 | -5.8 | -1.4 | +1.0 | +3.9 | +4.6 | +5.6 | +5.2 | +4.7 | +3.6 | +2.4 | |
| Aug. | -4.4 | -3.0 | -3.6 | -1.0 | +1.4 | +3.4 | +3.4 | +2.4 | +0.4 | -2.0 | -3.6 | -6.4 | -7.2 | -7.2 | -7.2 | -2.2 | +2.4 | +7.6 | +9.6 | +7.0 | +5.0 | +2.4 | -0.4 | -3.8 | |
| Sept. | -11.4 | -4.7 | -3.6 | -0.4 | -0.6 | +1.5 | +2.6 | +2.2 | +1.4 | -2.1 | -3.2 | -5.8 | -6.4 | -3.7 | +0.8 | +6.4 | +8.2 | +5.7 | +5.4 | +3.6 | +3.6 | +1.9 | 0.0 | -1.4 | |
| Oct. | +1.6 | +2.0 | +2.2 | +1.8 | +0.4 | +0.2 | -0.2 | -0.6 | -0.8 | -0.8 | -2.4 | -3.0 | -2.6 | -2.4 | -1.6 | -1.0 | -0.6 | -0.4 | +0.4 | +1.4 | +2.6 | +2.8 | +1.6 | | |
| Nov. | +2.2 | +1.9 | +2.0 | +0.5 | +0 | | | | | | | | | | | | | | | | | | | | |

DIURNAL INEQUALITIES OF THE GEOMAGNETIC ELEMENTS
INTERNATIONAL DISTURBED DAYS

31

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

8 LERWICK

1966

| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|-------|--|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | |
| HORIZONTAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +0.2 | -6.6 | -2.2 | +3.2 | +5.8 | +10.0 | +9.0 | +11.6 | +11.4 | +2.8 | -4.8 | -5.2 | -3.4 | -2.6 | -7.8 | -0.6 | -4.6 | -7.6 | -4.2 | -5.0 | -1.0 | +3.0 | +0.8 | -2.2 | |
| Feb. | +3.2 | +1.2 | +3.4 | +3.0 | -4.0 | +0.6 | +4.4 | -2.2 | +1.2 | -12.6 | -14.6 | -12.0 | -13.6 | -7.4 | +1.6 | +4.4 | +8.4 | +8.0 | +6.8 | +16.0 | +11.8 | -3.8 | -2.6 | -1.2 | |
| Mar. | -34.0 | -15.0 | -8.5 | +5.8 | +0.6 | -10.0 | -25.2 | -19.0 | -27.3 | -42.8 | -37.8 | -15.2 | -7.8 | -7.0 | +17.9 | +60.2 | +74.2 | +64.4 | +31.8 | -19.4 | -7.5 | +2.2 | +13.2 | +6.2 | |
| Apr. | +7.3 | +8.6 | -5.9 | +1.8 | +8.0 | +5.5 | +3.8 | +1.4 | -7.9 | -18.2 | -25.1 | -27.4 | -24.5 | -13.8 | +0.5 | +10.4 | +25.2 | +38.1 | +24.6 | +17.6 | +6.7 | -3.2 | -14.7 | -13.8 | |
| May | +3.1 | +10.2 | +3.9 | +4.7 | -0.4 | +11.7 | +5.3 | -8.8 | -23.1 | -33.7 | -52.4 | -43.9 | -27.9 | -13.0 | +17.1 | +51.5 | +94.8 | +94.1 | +70.1 | +13.2 | -15.9 | -3.9 | -6.5 | -54.9 | |
| June | -4.0 | -1.3 | -10.6 | +1.8 | -1.2 | -1.7 | -3.0 | -8.0 | -18.4 | -32.5 | -44.8 | -46.0 | -29.2 | -13.5 | +2.6 | +16.0 | +22.4 | +40.9 | +53.4 | +39.6 | +23.6 | +7.7 | +5.4 | +0.8 | |
| July | -12.4 | -6.1 | -9.6 | -21.4 | -52.0 | -32.8 | -44.0 | -31.3 | -24.0 | -21.4 | -20.5 | -29.6 | -14.2 | -4.9 | +15.8 | +30.0 | +43.3 | +51.0 | +54.6 | +43.5 | +32.6 | +28.0 | +13.3 | +3.2 | |
| Aug. | -18.3 | -39.8 | -27.4 | -17.9 | -5.6 | +0.6 | +0.5 | -6.0 | -15.0 | -27.5 | -32.0 | -25.0 | -24.7 | +1.8 | +11.2 | +17.3 | +33.2 | +72.2 | +88.9 | +55.6 | +15.0 | -55.7 | -9.2 | +7.8 | |
| Sept. | -179.8 | -162.1 | -142.6 | -65.0 | -39.9 | -17.4 | -11.4 | -7.7 | -3.6 | -3.4 | +1.3 | +21.4 | +74.4 | +70.3 | +70.6 | +134.4 | +158.7 | +170.4 | +156.6 | +63.3 | +12.8 | -59.4 | -167.3 | -74.6 | |
| Oct. | +1.8 | -11.6 | -1.9 | -10.6 | +11.8 | +2.6 | +12.6 | -0.2 | -1.3 | -19.2 | -23.4 | -21.2 | -14.4 | +2.2 | +9.3 | +7.0 | +17.4 | +17.6 | +16.8 | +14.2 | +17.1 | +14.8 | -4.8 | -36.6 | |
| Nov. | -6.4 | -2.4 | +3.1 | +6.2 | +11.4 | +13.0 | +6.8 | +3.4 | +3.9 | -9.4 | -18.6 | -18.0 | -12.8 | -11.2 | -4.7 | +1.8 | +3.8 | +5.4 | +0.2 | +6.4 | +2.7 | +13.8 | +5.2 | -3.6 | |
| Dec. | -13.4 | -18.3 | -12.4 | -11.2 | -7.0 | -4.1 | -0.2 | -1.2 | -7.6 | -9.9 | -15.0 | -15.8 | -10.8 | -8.3 | +3.8 | +62.6 | +62.4 | +64.3 | +18.4 | -2.2 | -13.9 | -20.0 | -18.4 | | |
| Year | -21.1 | -20.7 | -17.6 | -8.3 | -6.1 | -1.8 | -3.5 | -5.7 | -9.3 | -19.0 | -24.0 | -19.8 | -9.1 | +0.2 | +11.5 | +32.9 | +44.9 | +51.6 | +43.2 | +20.2 | +6.3 | -8.9 | -20.5 | -15.6 | |
| Winter | -4.1 | -6.5 | -2.0 | +0.3 | +1.5 | +4.9 | +5.0 | +2.9 | +2.2 | -7.3 | -13.3 | -12.7 | -10.1 | -7.4 | -1.8 | +17.1 | +17.5 | +17.5 | +5.3 | +3.8 | -2.1 | -0.2 | -4.1 | -6.3 | |
| Equinox | -51.2 | -46.3 | -39.7 | -17.0 | -4.9 | -4.8 | -5.1 | -6.4 | -10.0 | -20.9 | -21.3 | -10.6 | +6.9 | +12.9 | +24.6 | +53.0 | +68.9 | +72.6 | +57.5 | +18.9 | +7.3 | -11.4 | -43.4 | -29.7 | |
| Summer | -7.9 | -9.3 | -10.9 | -8.2 | -15.0 | -5.5 | -10.3 | -13.5 | -20.1 | -28.8 | -37.4 | -36.1 | -24.0 | -4.9 | +11.7 | +28.7 | +48.4 | +64.5 | +66.7 | +38.0 | +13.8 | -15.0 | -14.1 | -10.8 | |
| DECLINATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -3.10 | -1.72 | -0.43 | -0.86 | -1.10 | -0.32 | +1.84 | +2.74 | +2.05 | +1.62 | +2.16 | +3.38 | +3.84 | +5.30 | +2.37 | +3.32 | +3.96 | -0.40 | -2.10 | -3.52 | -7.39 | -3.74 | -3.90 | -4.00 | |
| Feb. | -1.50 | -0.13 | -1.59 | -1.36 | -0.69 | +1.87 | +0.10 | +1.73 | +1.11 | +1.04 | +0.63 | +3.05 | +3.22 | +3.75 | +3.89 | +4.34 | +4.09 | +2.05 | +0.86 | +5.03 | -9.19 | -5.30 | -2.91 | -4.03 | |
| Mar. | -7.00 | -10.60 | -8.75 | -12.24 | -3.80 | +2.28 | +0.38 | +1.40 | +1.15 | +2.80 | +3.28 | +6.46 | +9.40 | +9.84 | +7.47 | +5.26 | +7.00 | +4.24 | +4.82 | +5.30 | -1.09 | -3.34 | -3.14 | -0.88 | |
| Apr. | -3.09 | -3.82 | -3.67 | -5.83 | -4.49 | -3.14 | -2.87 | -3.77 | -3.41 | -1.94 | +0.69 | +4.13 | +6.97 | +9.16 | +9.75 | +8.73 | +7.05 | +5.28 | +2.51 | +0.19 | -0.93 | -6.64 | -5.47 | -5.39 | |
| May | -1.03 | -4.21 | -3.59 | -2.67 | -3.29 | -6.02 | -6.47 | -4.09 | -3.47 | -0.91 | +1.25 | +5.47 | +7.59 | +8.53 | +8.07 | +8.83 | +9.37 | +7.66 | +4.55 | -0.69 | -3.33 | -6.21 | -9.15 | -6.19 | |
| June | -1.23 | -2.30 | -1.99 | -2.65 | -4.24 | -5.39 | -6.61 | -6.40 | -6.63 | -4.97 | -1.90 | +1.89 | +4.31 | +7.06 | +7.37 | +7.49 | +6.08 | +5.11 | +4.85 | +2.14 | +0.79 | -0.45 | -2.44 | +0.13 | |
| July | -6.74 | -6.29 | -7.38 | -3.78 | -5.42 | -3.49 | -2.86 | -0.86 | -1.92 | -1.89 | -0.26 | +2.46 | +6.00 | +6.93 | +7.00 | +7.08 | +5.50 | +3.71 | +4.14 | +2.68 | +2.39 | -0.64 | -2.16 | -4.20 | |
| Aug. | -4.20 | -5.00 | -4.75 | -5.90 | -4.86 | -6.04 | -7.08 | -6.40 | -4.93 | -2.48 | +2.14 | +6.90 | +7.98 | +11.62 | +11.45 | +8.86 | +7.06 | +7.42 | +2.40 | +3.82 | -6.33 | -6.04 | -2.00 | -3.64 | |
| Sept. | -10.87 | -10.01 | -14.53 | -4.85 | -1.69 | -0.22 | -2.37 | +1.43 | +2.43 | +2.43 | +4.41 | +8.21 | +8.47 | +10.71 | +10.55 | +4.81 | +7.25 | +5.18 | +3.43 | +3.45 | +2.61 | +6.97 | -21.69 | -2.17 | |
| Oct. | -5.41 | -5.59 | -2.95 | -2.19 | +0.25 | +1.97 | +0.91 | -0.01 | +0.25 | +2.05 | +3.93 | +5.83 | +7.35 | +8.19 | +8.67 | +5.95 | +1.89 | +0.69 | -3.75 | -3.43 | -8.25 | -6.81 | -5.09 | -4.95 | |
| Nov. | -5.02 | -0.63 | +0.30 | +0.87 | +1.13 | +1.14 | +3.03 | +3.17 | +2.78 | +2.27 | +1.62 | +2.03 | +4.38 | +4.97 | +3.86 | +1.79 | +0.33 | -2.00 | -2.61 | -4.15 | -2.62 | -7.09 | -5.44 | -4.11 | |
| Dec. | -5.19 | -2.25 | -1.78 | -0.19 | -1.21 | +0.73 | +2.01 | +4.73 | +2.54 | +2.23 | +1.47 | +2.95 | +3.87 | +3.39 | +6.68 | +7.07 | +5.43 | +0.87 | -6.73 | -6.61 | -5.26 | -5.55 | -4.21 | -4.99 | |
| Year | -4.53 | -4.38 | -4.26 | -3.47 | -2.45 | -1.39 | -1.67 | -0.53 | -0.67 | +0.20 | +1.62 | +4.40 | +6.11 | +7.45 | +7.26 | +6.13 | +5.42 | +3.32 | +0.23 | -1.37 | -3.22 | -4.87 | -5.63 | -3.70 | |
| Winter | -3.70 | -1.18 | -0.87 | -0.39 | -0.47 | +0.85 | +1.75 | +3.09 | +2.12 | +1.79 | +1.47 | +2.85 | +3.83 | +4.35 | +4.20 | +4.13 | +3.45 | +0.13 | -2.65 | -4.83 | -6.11 | -5.42 | -4.11 | -4.28 | |
| Equinox | -6.59 | -7.51 | -7.47 | -6.28 | -2.43 | +0.22 | -0.99 | -0.24 | +0.11 | +1.33 | +3.08 | +6.16 | +8.05 | +9.47 | +9.11 | +6.19 | +5.80 | +3.85 | -0.66 | -1.27 | -1.91 | -5.81 | -8.85 | -3.35 | |
| Summer | -3.31 | -4.45 | -4.43 | -3.75 | -4.45 | -5.23 | -5.75 | -4.44 | -4.24 | -2.51 | +0.31 | +4.18 | +6.47 | +8.53 | +8.47 | +8.07 | +7.00 | +5.97 | +3.99 | +1.99 | -1.62 | -3.33 | -3.94 | -3.47 | |
| VERTICAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -19.5 | -18.5 | -18.3 | -10.3 | -8.7 | -11.1 | -12.3 | -13.3 | -12.3 | -10.1 | -7.3 | -6.7 | -5.5 | +1.7 | +26.3 | +23.9 | +23.5 | +38.1 | +27.7 | +24.1 | +14.7 | -0.3 | -9.3 | -16.5 | |
| Feb. | -22.7 | -22.5 | -16.8 | -9.5 | -22.1 | -32.9 | -28.7 | -18.1 | -14.2 | -6.3 | -0.9 | +0.3 | +6.3 | +11.9 | +14.4 | +21.7 | +39.1 | +47.5 | +34.1 | +35.1 | +12.6 | -2.1 | -7.7 | -18.5 | |
| Mar. | -35.6 | -46.3 | -38.1 | -58.8 | -67.1 | -61.1 | -49.4 | -24.7 | -10.5 | -1.2 | +7.7 | +22.1 | +30.8 | +32.3 | +40.1 | +67.6 | +68.7 | +80.3 | +59.0 | +11.7 | -20.7 | -8.6 | +4.5 | -2.7 | |
| Apr. | -25.4 | -22.8 | -30.8 | -28.2 | -21.4 | -18.1 | -19.4 | -16.6 | -14.0 | -11.6 | -10.6 | -11.0 | -8.8 | +0.2 | +17.0 | +31.8 | +48.6 | +65.1 | +57.8 | +41.8 | +25.8 | +1.2 | -20.0 | -30.6 | |
| May | -34.0 | -44.5 | -37.4 | -28.6 | -45.4 | -44.1 | -29.4 | -21.8 | -20.6 | -18.9 | -10.2 | -8.6 | +8.6 | +12.5 | +22.6 | +29.8 | +45.0 | +47.1 | +76.0 | +34.2 | +30.5 | +28.6 | +22.2 | | |
| June | -45.6 | -32.6 | -39.4 | -25.6 | -9.6 | -6.5 | -4.0 | +0.4 | +3.6 | +3.6 | -8.8 | -4.8 | -4.8 | +2.4 | +10.2 | +20.6 | +23.5 | +25.4 | +33.8 | +28.8 | +21.0 | +12.0 | -0.6 | | |
| July | -51.8 | -68.8 | -64.1 | -65.6 | -62.0 | -59.4 | -36.0 | -20.8 | -2.3 | +19.8 | +26.2 | +35.8 | +32.0 | +24.8 | +28.5 | +32.2 | +34.8 | +40.2 | +42.6 | +45.6 | +40.3 | +29.8 | +7.4 | -9.2 | |
| Aug. | -59.4 | -77.7 | -58.6 | -43.0 | -27.3 | -10.0 | +2.0 | +9.1 | +10.4 | +10.8 | +8.9 | +9.6 | +13.2 | +6.7 | +16.6 | +24.2 | +29.3 | +51.4 | +77.8 | +56.7 | +10.4 | -23.2 | -12.7 | -25.2 | |
| Sept. | -23.1 | -36.6 | -75.8 | -160.1 | -60.0 | -71.8 | -37.9 | -19.6 | -3.2 | +13.5 | +28.4 | +31.6 | +46.3 | +52.0 | +56.0 | + | | | | | | | | | |

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE
MONTHS SEASONS AND YEAR

The ranges are derived from the diurnal inequalities
printed in Tables 6-8

AVERAGE DEPARTURE OF DIURNAL INEQUALITIES FROM DAILY MEAN

Arithmetical average of diurnal inequalities in
Tables 6-8 taken regardless of sign

9 LERWICK

1966

| | All days | | | Quiet days | | | Disturbed days | | | .. |
|---------|----------|-------|------|------------|-------|------|----------------|-------|-------|----|
| | H | D | Z | H | D | Z | H | D | Z | |
| | γ | ' | γ | γ | ' | γ | γ | ' | γ | |
| Jan. | 8.0 | 5.58 | 15.8 | 6.5 | 2.69 | 5.6 | 19.4 | 12.69 | 57.6 | |
| Feb. | 12.3 | 6.62 | 23.2 | 11.3 | 3.80 | 6.1 | 30.6 | 13.53 | 80.4 | |
| Mar. | 36.9 | 9.52 | 36.2 | 27.2 | 6.80 | 9.4 | 117.0 | 22.08 | 147.4 | |
| Apr. | 47.2 | 11.38 | 31.0 | 52.4 | 10.28 | 15.2 | 65.5 | 16.39 | 95.9 | |
| May | 64.8 | 11.36 | 31.5 | 53.2 | 10.16 | 16.7 | 160.6 | 18.52 | 121.4 | |
| June | 64.5 | 12.30 | 22.9 | 65.2 | 12.48 | 18.0 | 99.4 | 14.12 | 79.4 | |
| July | 58.6 | 12.01 | 35.3 | 56.4 | 11.07 | 15.2 | 107.5 | 14.46 | 114.4 | |
| Aug. | 63.0 | 13.80 | 44.3 | 50.0 | 13.12 | 16.8 | 144.6 | 18.70 | 155.5 | |
| Sept. | 73.5 | 12.57 | 74.6 | 40.6 | 8.76 | 19.6 | 350.2 | 32.40 | 268.9 | |
| Oct. | 29.8 | 8.56 | 34.9 | 29.0 | 6.54 | 5.8 | 54.2 | 16.92 | 126.4 | |
| Nov. | 20.3 | 6.97 | 30.7 | 16.0 | 4.43 | 3.8 | 32.4 | 12.06 | 76.4 | |
| Dec. | 20.0 | 6.42 | 30.5 | 13.6 | 4.08 | 6.1 | 86.1 | 13.80 | 104.3 | |
| Year | 38.1 | 8.17 | 30.4 | 33.6 | 7.35 | 8.9 | 75.6 | 13.08 | 97.3 | |
| Winter | 12.6 | 6.15 | 23.8 | 11.4 | 3.58 | 3.2 | 30.8 | 10.46 | 70.6 | |
| Equinox | 42.0 | 9.89 | 42.4 | 35.3 | 7.76 | 9.0 | 123.8 | 18.32 | 153.2 | |
| Summer | 62.7 | 12.29 | 32.1 | 55.2 | 11.30 | 15.5 | 104.1 | 14.28 | 111.4 | |

10 LERWICK

1966

| | All days | | | Quiet days | | | Disturbed days | | | .. |
|---------|----------|------|------|------------|------|-----|----------------|------|------|----|
| | H | D | Z | H | D | Z | H | D | Z | |
| | γ | ' | γ | γ | ' | γ | γ | ' | γ | |
| Jan. | 1.7 | 1.17 | 5.0 | 1.8 | 0.70 | 1.3 | 4.8 | 2.71 | 15.0 | |
| Feb. | 2.8 | 1.45 | 6.5 | 2.3 | 0.91 | 1.8 | 6.2 | 2.64 | 18.6 | |
| Mar. | 7.5 | 2.34 | 9.3 | 5.9 | 1.54 | 2.2 | 23.0 | 5.08 | 35.4 | |
| Apr. | 11.6 | 2.90 | 7.9 | 13.5 | 2.26 | 3.8 | 12.9 | 4.54 | 24.1 | |
| May | 13.3 | 3.06 | 8.3 | 13.4 | 2.42 | 4.5 | 31.6 | 5.11 | 30.5 | |
| June | 13.5 | 0.78 | 5.9 | 15.1 | 2.96 | 3.7 | 17.9 | 3.93 | 15.2 | |
| July | 14.2 | 3.42 | 9.1 | 14.0 | 2.88 | 3.5 | 26.7 | 3.99 | 36.7 | |
| Aug. | 12.8 | 3.44 | 9.2 | 12.9 | 2.80 | 3.7 | 25.3 | 5.80 | 28.1 | |
| Sept. | 18.5 | 3.25 | 17.4 | 10.2 | 1.91 | 3.6 | 77.9 | 6.28 | 57.5 | |
| Oct. | 7.0 | 2.21 | 9.0 | 7.6 | 1.85 | 1.4 | 12.1 | 3.99 | 32.6 | |
| Nov. | 4.7 | 1.63 | 7.7 | 4.4 | 1.13 | 1.0 | 7.3 | 2.81 | 20.4 | |
| Dec. | 4.4 | 1.60 | 7.9 | 3.3 | 0.96 | 1.6 | 17.6 | 3.66 | 22.7 | |
| Year | 7.9 | 2.37 | 8.1 | 8.2 | 1.77 | 2.0 | 17.6 | 3.51 | 25.8 | |
| Winter | 3.1 | 1.42 | 6.6 | 2.9 | 0.92 | 1.1 | 6.5 | 2.83 | 18.9 | |
| Equinox | 9.2 | 2.64 | 10.3 | 8.9 | 1.82 | 2.1 | 26.9 | 4.45 | 35.7 | |
| Summer | 12.8 | 3.25 | 7.9 | 13.6 | 2.75 | 3.4 | 22.7 | 4.58 | 25.3 | |

NON-CYCLIC CHANGE

11 LERWICK

1966

| | All days | | | Quiet days | | | Disturbed days | | | .. |
|---------|----------|-------|------|------------|-------|------|----------------|-------|-------|----|
| | H | D | Z | H | D | Z | H | D | Z | |
| | γ | ' | γ | γ | ' | γ | γ | ' | γ | |
| Jan. | +0.1 | -0.04 | 0.0 | +8.2 | +0.12 | +0.1 | -3.1 | -0.29 | +0.4 | |
| Feb. | +0.3 | +0.02 | 0.0 | +2.3 | +0.39 | +3.3 | -2.6 | -0.34 | +12.2 | |
| Mar. | 0.0 | -0.02 | +0.4 | +3.5 | +0.13 | -6.3 | +35.0 | +6.27 | +31.3 | |
| Apr. | -0.1 | -0.01 | -0.3 | +2.5 | +0.11 | +0.7 | -12.6 | -1.23 | -0.2 | |
| May | -2.4 | -0.28 | -1.5 | +2.0 | +0.49 | -0.2 | -38.9 | -4.51 | -13.2 | |
| June | +2.5 | +0.16 | +0.6 | +3.7 | +0.19 | -0.7 | +13.5 | +1.56 | +12.2 | |
| July | +0.6 | +0.02 | +0.4 | +5.2 | -0.28 | -1.3 | -8.5 | +0.75 | +10.6 | |
| Aug. | -0.5 | -0.03 | +0.8 | +1.4 | +0.31 | -0.9 | +9.8 | +1.72 | +24.8 | |
| Sept. | -0.5 | 0.00 | -1.0 | +3.5 | +0.26 | +9.1 | -13.1 | +1.19 | -22.2 | |
| Oct. | -0.5 | -0.02 | -0.1 | +2.7 | -0.01 | -2.7 | -26.1 | +1.57 | -4.8 | |
| Nov. | +0.7 | +0.02 | +1.1 | +4.7 | -0.36 | -2.9 | -1.2 | +0.18 | -0.4 | |
| Dec. | +0.7 | +0.03 | +0.5 | +2.0 | +0.30 | +1.9 | -16.7 | +1.44 | -23.3 | |
| Year | +0.1 | -0.01 | +0.1 | +3.5 | +0.14 | 0.0 | -5.4 | +0.69 | +2.3 | |
| Winter | +0.5 | +0.01 | +0.4 | +4.3 | +0.11 | +0.6 | -5.9 | +0.25 | -2.8 | |
| Equinox | -0.3 | -0.01 | -0.3 | +3.1 | +0.12 | +0.2 | -4.2 | +1.95 | +1.0 | |
| Summer | +0.1 | -0.03 | +0.1 | +3.1 | +0.18 | -0.8 | -6.0 | -0.12 | +8.6 | |

AVERAGE RANGE OF DIURNAL INEQUALITY 1932-53
WITH 1966 AS PERCENTAGE OF THIS

12 LERWICK

1966

| | All days | | | International quiet days | | | International disturbed days | | | .. |
|---------|----------|------|-------|--------------------------|------|-------|------------------------------|-------|-------|-------|
| | H | D | Z | H | D | Z | H | D | Z | |
| Year | 1932-53 | 49.4 | 9.36 | 53.3 | 37.4 | 8.68 | 10.3 | 131.6 | 14.22 | 131.1 |
| | 1966(%) | 77 | 87 | 57 | 90 | 85 | 86 | 57 | 92 | 74 |
| Winter | 1932-53 | 24.4 | 7.87 | 41.1 | 15.1 | 4.65 | 7.7 | 85.0 | 13.84 | 116.6 |
| | 1966(%) | 52 | 78 | 58 | 75 | 77 | 42 | 36 | 76 | 61 |
| Equinox | 1932-53 | 59.2 | 10.94 | 68.8 | 42.3 | 9.54 | 12.9 | 193.4 | 18.89 | 168.9 |
| | 1966(%) | 71 | 90 | 62 | 83 | 81 | 70 | 64 | 97 | 91 |
| Summer | 1932-53 | 72.6 | 12.72 | 53.0 | 57.5 | 12.77 | 17.0 | 156.9 | 15.61 | 134.0 |
| | 1966(%) | 86 | 97 | 61 | 96 | 88 | 91 | 66 | 91 | 83 |

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

RATIO OF RANGE OF INEQUALITY AT LERWICK TO THAT AT ESKDALEMUIR

13 LERWICK

1966

| Type of day | Element | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-------------|---------|------|------|------|------|------|------|------|------|-------|------|------|------|
| q | H | 0.98 | 1.18 | 1.15 | 1.24 | 1.28 | 1.16 | 1.29 | 1.09 | 1.03 | 1.00 | 0.98 | 1.14 |
| d | H | 0.58 | 1.25 | 2.06 | 2.00 | 1.75 | 1.26 | 1.36 | 1.98 | 2.66 | 1.09 | 0.82 | 2.56 |
| q | D | 1.07 | 1.00 | 1.04 | 1.03 | 1.05 | 1.06 | 1.04 | 1.07 | 1.02 | 0.97 | 1.11 | 1.06 |
| d | D | 1.32 | 1.24 | 1.28 | 1.14 | 1.25 | 1.08 | 1.17 | 1.12 | 1.29 | 1.13 | 1.15 | 1.20 |
| q | Z | 1.56 | 0.92 | 0.64 | 0.74 | 0.70 | 0.77 | 0.69 | 0.76 | 1.13 | 0.44 | 0.66 | 0.77 |
| d | Z | 2.09 | 2.13 | 1.78 | 1.74 | 1.93 | 1.80 | 1.85 | 2.25 | 1.40 | 2.14 | 2.07 | 1.67 |

14 LERWICK

1966

(a) Disturbances without sudden commencement

All times GMT

| Serial Number | From | | To | | Range (γ) | | | Notes |
|---------------|---------|------|---------|------|--------------------|------|------|--|
| | Date | Hour | Date | Hour | H | D | Z | |
| 1a | 13 Mar. | 17 | 14 Mar. | 19 | 467 | 377 | 482 | |
| 2a | 23 Mar. | 08 | 23 Mar. | 24 | 934 | 444 | 523 | |
| 3a | 28 Mar. | 09 | 29 Mar. | 05 | 639 | 276 | 472 | |
| 4a | 3 Sept. | 09 | 4 Sept. | 23 | (2400) | 1314 | 1398 | |
| 5a | 4 Oct. | 20 | 5 Oct. | 21 | 623 | 223 | 305 | |
| 6a | 14 Dec. | 13 | 15 Dec. | 03 | 743 | 336 | 448 | H from DRPVM Did not register on La Cour |

(b) Disturbances with sudden commencement (ssc)

All times GMT

| Serial Number | Date | Time of sudden commencement | End of disturbance | | With initial reversed stroke | | | Magnitude of main stroke (γ) | | | Range of following disturbance (γ) | | |
|---------------|----------|-----------------------------|--------------------|------|------------------------------|-----|-----|---------------------------------------|-------|-------|---|-----|-------|
| | | | Date | Hour | H | D | Z | H | D | Z | H | D | Z |
| 1b | 1 Apr. | 12 38 | 2 Apr. | 07 | Yes | Yes | Yes | +28 | -17 | +6 | 244 | 241 | 332 |
| 2b | 25 May | 23 27 | 27 May | 03 | No | No | No | +25 | -4 | -8 | 928 | 295 | 340 |
| 3b | 31 May | 03 42 | 1 June | 07 | No | Yes | No | +11 | -15 | -2 | 621 | 184 | 403 |
| 4b | 15 July | 15 00 | - | - | Yes | No | Yes | +17 | -5 | -3 | | | small |
| 5b | 29 Aug. | 13 15 | 30 Aug. | 06 | Yes | Yes | Yes | +53 | -32 | +12 | 316 | 295 | 325 |
| 6b | 30 Aug. | 11 13 | 31 Aug. | 03 | Yes | Yes | Yes | +69 | † | -25 | 1078 | 351 | 530 |
| 7b | 23 Sept. | 08 56 | 23 Sept. | 24 | Yes | Yes | No | (+8) | (+24) | (+3)‡ | 262 | 85 | 173 |
| 8b | 15 Oct. | 09 55 | 16 Oct. | 23 | Yes | Yes | Yes | (+17) | (+20) | (-5)§ | 185 | 165 | 139 |
| 9b | 17 Nov. | 17 21 | - | - | Yes | Yes | Yes | +16 | -6 | +6 | | | small |

In the case of an ssc*, that is, an ssc preceded, on at least one component, by one or more small oscillations, timing of the sudden commencement has been made from the main stroke.

* Three consecutive sudden commencements -8, +21, -18.

† At time of changing chart.

‡ From fluxgate magnetometer, no La Cour records.

(c) Disturbances due to solar flare (sfe)

All times GMT

| Serial Number | Date | Commencement | Max. | End | Movement (γ) | | | K | K' | Notes |
|---------------|----------|--------------|-------|-------|-----------------------|-----|----|---|----|--|
| | | | | | H | D | Z | | | |
| 1c | 20 Mar. | 09 55 | 09 59 | 10 11 | -25 | +12 | +5 | 2 | 1 | |
| 2c | 30 Mar. | 12 48 | 12 53 | 13 08 | -17 | -16 | +9 | 2 | 2 | Solar flare ended 1345 SEA. Complete SWF. |
| 3c | 28 Aug. | 15 26 | 15 35 | 15 47 | -7 | -21 | +9 | 2 | 2 | SEA. Complete SWF. |
| 4c | 18 Sept. | 14 54 | 15 01 | 15 12 | -3 | -4 | +3 | 1 | 1 | SEA. Severe SWF. |
| 5c | 21 Sept. | 09 33 | 09 36 | 09 47 | -10 | +2 | +1 | 1 | 1 | SEA. Severe SWF. |

SEA = Sudden enhancement of atmospherics.

SWF = Short wave fade out.

AURORAL LOG

15 LERWICK

1966

| GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes |
|------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|
| Jan. | 2/3 | X | X | X | O | X | X | X | X | O | O | X | X | X | X | |
| | 3/4 | O | O | O | O | O | X | O | X | O | X | O | O | O | X | |
| | 4/5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 5/6 | X | X | X | X | X | X | O | O | O | O | X | X | X | X | |
| | 6/7 | X | X | X | X | X | X | X | O | X | X | X | X | X | X | |
| | 12/13 | X | X | X | X | X | X | X | L | X | X | X | X | X | X | HB(1) |
| | 13/14 | X | X | X | X | X | O | X | X | X | X | X | X | X | X | |
| | 14/15 | X | X | X | X | X | X | X | X | X | X | X | X | O | O | |
| | 15/16 | X | X | X | X | X | X | X | O | O | O | O | X | X | O | |
| | 20/21 | X | X | L | L | X | O | X | X | X | X | X | X | X | X | |
| | 24/25 | X | X | O | O | O | O | O | O | O | O | O | O | O | O | |
| | 30/31 | X | X | X | X | X | X | X | O | O | X | X | O | X | | HA,N(1) |
| Feb. | 4/5 | X | X | X | X | X | X | X | X | X | X | O | O | O | O | |
| | 6/7 | X | O | O | O | O | O | O | O | O | X | X | X | X | X | |
| | 7/8 | O | O | O | X | X | O | O | O | O | X | O | X | X | X | |
| | 8/9 | X | O | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 9/10 | O | O | O | O | L | X | X | X | X | X | X | X | X | X | |
| | 10/11 | O | X | X | L | X | X | X | X | X | X | X | X | X | X | |
| | 11/12 | X | X | X | X | X | X | X | O | L | O | O | O | O | O | N(1) |
| | 12/13 | X | X | O | O | X | X | X | O | X | X | X | X | X | X | HA,N(1-3) |
| | 13/14 | O | O | O | O | O | O | O | O | O | O | O | O | O | O | HN(1) |
| | 14/15 | O | O | O | O | O | O | X | O | O | O | O | O | O | X | |
| | 15/16 | O | X | O | O | X | X | X | X | X | X | X | X | O | O | |
| | 16/17 | X | X | X | X | O | X | X | X | X | O | X | O | O | O | |
| | 17/18 | X | X | X | X | X | X | X | X | O | X | O | O | O | O | |
| | 18/19 | O | O | O | O | O | O | O | O | O | O | O | O | O | O | |
| | 25/26 | X | X | X | X | X | O | O | O | O | X | X | X | X | | |
| | 27/28 | X | X | O | X | X | X | X | X | X | X | X | X | X | | |
| | 28/1 | X | X | X | X | X | X | X | X | X | O | O | O | O | | |

"In order to save space all nights during which the sky was overcast throughout have been omitted from the table; otherwise a symbol is given for each hourly observation during the hours of darkness according to the following code;"

L = aurora is observed

O = observing conditions are good and aurora is clearly absent

X = observing conditions made a decision about the presence of aurora impossible

? = aurora is suspected but observing conditions are not good enough for a firm decision.

AURORAL LOG

35

15 LERWICK (contd)

1966

| GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes |
|-------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|-------|
| Mar. | 2/3 | | O | O | X | O | O | X | X | X | X | X | | | | |
| | 4/5 | | O | X | X | X | X | X | X | X | X | X | | | | |
| | 8/9 | | O | O | O | O | O | O | O | O | O | O | | | | |
| | 10/11 | | X | X | O | X | X | X | X | X | X | X | | | | |
| | 12/13 | | O | O | O | O | O | O | O | O | O | X | | | | |
| | 13/14 | | O | L | L | L | L | L | L | L | L | L | | | HA, RB, HN(1-2) | |
| | 17/18 | | X | L | X | L | L | L | L | O | O | | | | HA, HB, HN(1) | |
| | 21/22 | | O | O | O | L | O | X | X | X | X | X | | | N(1) | |
| | 22/23 | | O | O | X | O | X | X | X | X | X | X | | | | |
| | 23/24 | | L | L | L | L | X | X | L | X | | | | | HA, HN(1-2) | |
| | 24/25 | | X | X | X | X | X | X | O | X | X | X | | | | |
| | 25/26 | | X | X | X | O | X | O | O | O | X | X | | | | |
| | 27/28 | | O | O | O | O | X | X | X | X | X | X | | | | |
| | 30/31 | | X | X | X | X | O | O | X | O | | | | | | |
| Apr. | 1/2 | | | | X | X | X | X | X | X | O | X | | | | |
| | 2/3 | | | | O | O | O | O | X | X | X | X | | | | |
| | 3/4 | | | | X | X | X | X | O | O | O | O | | | | |
| | 8/9 | | | | O | L | O | O | O | O | O | O | | | HN, RB, HA(1-2) | |
| | 9/10 | | | | O | O | O | O | O | O | O | O | | | | |
| | 10/11 | | | | O | O | O | O | O | O | O | O | | | | |
| | 11/12 | | | | X | X | O | O | O | O | X | X | | | | |
| | 12/13 | | | | O | O | O | O | X | X | X | X | | | | |
| | 15/16 | | | | O | O | O | O | O | O | O | O | | | | |
| | 16/17 | | | | O | O | O | O | O | O | O | O | | | | |
| | 17/18 | | | | O | X | X | X | X | | | | | | | |
| | 21/22 | | | | O | O | X | X | | | | | | | | |

When aurora was observed a brief note has been added describing the structure, form and brightness according to the following code:-

Structure. H = homogeneous
S = striated
R = rayed

Form. A = arc
B = band
P = patch
V = veil
R = rays
N = not identifiable

Brightness 1 = comparable with Milky Way
Index. 2 = comparable with moonlit cirrus cloud
 3 = comparable with brightly moonlit cirrus cloud or moonlit cumulus cloud
 4 = much brighter than 3

Complete definitions of these terms are given in the International Auroral Atlas (1963).

AURORAL LOG

15 LERWICK (contd)

1966

| GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes | |
|------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|---------------|
| Aug. 29/30 | | | | | X | X | X | O | L | L | O | | | | | N,R,B(1-3) | |
| Sept. | GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes |
| 3/4 | | | | | L | L | L | X | X | X | X | | | | | | |
| 4/5 | | | | | X | O | X | X | X | X | X | X | | | | RB,C(2-4) | |
| 5/6 | | | | | X | X | X | X | X | X | X | X | | | | | |
| 7/8 | | | | | O | X | X | X | X | O | O | X | | | | | |
| 12/13 | | | | | X | X | O | O | O | O | O | O | | | | | |
| 13/14 | | | | | O | X | X | X | X | X | X | X | | | | | |
| 14/15 | | | | | O | L | X | X | X | X | X | X | | | | | |
| 15/16 | | | | | L | X | X | X | X | X | X | X | | | | N(1) | |
| 17/18 | | | | | O | O | O | O | O | X | X | X | | | | N(1) | |
| 21/22 | | | | | X | X | X | X | X | X | X | X | | | | | |
| 22/23 | | | | | X | X | X | X | O | X | X | X | | | | | |
| 23/24 | | | | | O | O | X | X | X | O | X | X | | | | | |
| 26/27 | | | | | X | X | X | X | X | X | X | X | | | | | |
| 27/28 | | | | | X | X | X | X | X | X | X | O | | | | | |
| Oct. | GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes |
| 2/3 | | | | | X | X | X | X | X | X | X | X | X | | | | |
| 3/4 | | | | | X | X | X | X | X | X | X | X | X | | | | |
| 4/5 | | | | | X | X | X | L | X | L | X | X | X | X | X | X | RB,RA,HV(1-3) |
| 5/6 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 6/7 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 7/8 | | | | | X | O | O | O | X | X | X | X | X | X | X | X | |
| 8/9 | | | | | X | X | X | X | X | X | X | X | X | O | O | O | |
| 9/10 | | | | | X | X | X | X | X | X | X | X | X | O | O | O | |
| 11/12 | | | | | X | X | X | X | X | X | O | O | O | O | X | X | |
| 12/13 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 15/16 | | | | | X | X | X | X | L | L | X | X | O | O | X | X | RA,HB,N(1-2) |
| 16/17 | | | | | X | X | X | L | L | X | X | X | X | X | X | X | N(1) |
| 21/22 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 22/23 | | | | | X | X | X | X | X | X | X | X | O | X | X | X | |
| 23/24 | | | | | X | X | X | X | X | X | X | X | O | X | X | X | |
| 24/25 | | | | | X | X | X | X | X | X | O | O | X | X | X | X | |
| 25/26 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 26/27 | | | | | X | X | O | X | X | X | X | X | X | X | X | X | |
| 27/28 | | | | | X | X | X | O | O | X | X | O | O | O | X | X | |
| 28/29 | | | | | X | X | X | X | O | X | X | O | O | O | X | X | |
| 29/30 | | | | | X | X | X | X | X | X | X | X | X | X | X | X | |
| 31/1 | | | | | X | X | X | L | O | O | X | X | X | X | X | X | N(1) |

"In order to save space all nights during which the sky was overcast throughout have been omitted from the table; otherwise a symbol is given for each hourly observation during the hours of darkness according to the following code;"

L = aurora is observed

O = observing conditions are good and aurora is clearly absent

X = observing conditions made a decision about the presence of aurora impossible

? = aurora is suspected but observing conditions are not good enough for a firm decision.

AURORAL LOG

37

1966

15 LERWICK (contd.)

| GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes | |
|------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|
| Nov. | 1/2 | O | O | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 3/4 | O | O | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 4/5 | X | X | X | X | X | O | X | O | O | O | O | X | X | X | | |
| | 6/7 | O | X | X | X | L | L | X | X | X | X | X | X | X | X | | |
| | 7/8 | X | X | X | L | L | X | X | X | X | X | X | X | X | X | | |
| | 8/9 | O | O | O | O | O | O | O | X | X | X | O | X | O | O | | |
| | 9/10 | O | O | O | X | O | X | X | O | X | X | O | O | X | X | | |
| | 10/11 | O | O | O | L | L | L | X | O | O | O | O | O | O | O | | |
| | 11/12 | X | X | X | X | X | X | X | X | X | X | X | O | X | X | | |
| | 12/13 | X | X | O | O | O | O | O | O | X | X | X | X | X | X | | |
| | 13/14 | O | O | O | O | O | O | X | X | O | X | X | O | X | X | | |
| | 14/15 | O | O | O | O | O | X | X | O | X | X | X | X | X | X | | |
| | 15/16 | O | L | X | X | O | X | O | O | O | O | O | O | O | O | | |
| | 16/17 | X | X | X | O | O | O | O | X | X | X | L | O | O | X | | |
| | 17/18 | O | O | X | L | L | X | X | X | O | O | O | O | O | X | | |
| | 18/19 | O | L | L | O | X | X | O | L | X | X | X | X | O | O | | |
| | 19/20 | X | X | X | X | L | X | O | O | O | X | O | O | X | X | | |
| | 20/21 | X | X | X | X | X | X | O | O | X | X | X | X | X | X | | |
| | 22/23 | O | O | O | O | O | O | O | X | X | X | X | X | X | X | | |
| | 23/24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 24/25 | O | O | O | X | X | X | X | X | X | X | X | X | O | X | | |
| | 25/26 | O | O | O | O | X | X | O | X | X | X | X | X | O | X | | |
| | 27/28 | X | X | X | X | X | X | X | X | X | X | X | O | O | O | | |
| | 28/29 | X | X | X | X | O | X | X | X | X | X | X | X | X | X | | |
| | 30/1 | X | X | X | X | X | X | X | O | O | X | X | O | X | O | | |
| | | | | | | | | | | | | | | | | | |
| | GMT | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | Notes |
| Dec. | 2/3 | X | X | X | X | X | X | X | X | O | O | O | O | O | X | X | |
| | 3/4 | X | X | O | X | X | X | O | X | X | X | X | X | X | X | X | |
| | 4/5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 5/6 | X | X | X | X | L | X | X | X | X | L | X | X | X | X | O | |
| | 6/7 | X | O | O | X | X | O | X | X | X | X | X | X | X | X | X | |
| | 8/9 | X | X | X | X | O | O | O | X | X | X | X | X | X | X | X | |
| | 9/10 | X | O | X | X | O | O | O | O | X | X | X | X | O | X | X | |
| | 10/11 | O | O | O | O | X | X | X | X | O | O | O | O | O | X | X | |
| | 11/12 | O | O | O | X | X | X | O | O | X | X | X | O | O | X | X | |
| | 12/13 | X | X | X | X | O | X | X | X | X | X | X | O | O | O | X | |
| | 13/14 | X | O | O | O | O | O | O | O | X | O | O | O | O | O | O | |
| | 14/15 | L | L | L | L | L | L | X | X | X | X | X | X | X | X | X | |
| | 16/17 | X | X | O | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 17/18 | X | X | X | X | X | X | X | X | X | X | O | X | X | X | X | |
| | 18/19 | O | O | X | O | X | X | X | X | O | O | O | O | O | O | O | |
| | 19/20 | X | X | X | X | X | X | X | X | X | X | O | X | X | X | X | |
| | 20/21 | X | X | X | X | X | X | X | X | X | X | O | X | X | X | X | |
| | 23/24 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 24/25 | X | X | X | X | X | X | X | O | X | X | O | X | X | X | O | |
| | 28/29 | X | X | X | X | O | X | O | X | X | X | X | X | X | X | X | |
| | 29/30 | O | X | X | X | X | O | O | O | O | O | O | X | X | X | X | |
| | 30/31 | O | O | O | X | O | X | X | X | X | X | X | X | X | X | X | |
| | 31/1 | X | X | X | X | O | X | O | X | O | O | X | X | X | X | X | |

When aurora was observed a brief note has been added describing the structure, form and brightness according to the following code:-

Structure. H = homogeneous
 S = striated
 R = rayed

Form. A = arc
 B = band
 P = patch
 V = veil
 R = rays
 N = not identifiable

Brightness 1 = comparable with Milky Way
 Index. 2 = comparable with moonlit cirrus cloud
 3 = comparable with brightly moonlit cirrus cloud or moonlit cumulus cloud
 4 = much brighter than 3

Complete definitions of these terms are given in the International Auroral Atlas (1963).

GENERAL AURORAL TABLE

| 16 | | | | | | | | | | | | 1966 | | |
|--|--|---|--|----------------|---|--|---|--|----------|---|----------------------------|---------------------------------|---|----------|
| DATE | Φ_1 | FORMS | TIME | Φ_2 | DATE | Φ_1 | FORMS | TIME | Φ_2 | DATE | Φ_1 | FORMS | TIME | Φ_2 |
| JANUARY | | | | | MAY | | | | | OCTOBER | | | | |
| 1-2 20-21 | 61 60 | N HA | 0300 1930-2100 | 67 | 12-13 25-26 30-31 | 61 59 58 | N N N | 2250-2350 2300 2130-0005 | | 4-5 15-16 16-17 17-18 22-23 | 55 58 61 61 61 | HA, R HA, RA, P HA N | 1935-0300 2005-2345 1950-0015 2350-0100 and 0250 | 61 |
| FEBRUARY | | | | | JULY | | | | | 24-25 25-26 27-28 31-1 | 61 61 61 63 | N N N N | 2200 0450 2350 2000 | |
| 3-4 9-10 10-11 11-12 23-24 24-25 | 59 63 60 63 58 61 | HA, RA N N, RA N N N | 2040 2300 2110-2235 0150 0030 2250 | 65 | 8-9 | 54 | HB | 2210-2230 | 59 | | | | | |
| MARCH | | | | | AUGUST | | | | | NOVEMBER | | | | |
| 9-10 13-14 17-18 21-22 22-23 23-24 28-29 | 61 53 58 60 60 54 54 | RA HA, RA N, HA N N HA, P, R HA, HB | 1940-2115 2000-0500 2050-0250 2250 2150-2300 2025-0253 2000-0250 | 64 63 66 | 13-14 19-20 23-24 24-25 25-26 29-30 | 61 60 57 58 58 59 | N N RA N RA, RB | 0100-0300 2250-2400 2250-0200 2100-2358 2015-2315 0050-0250 | 66 | 6-7 7-8 10-11 11-12 12-13 | 61 63 63 63 61 | HA, HB N R, P N N | 1850-2315 2005-2020 2010-0045 0315-0345 1900-1950 and 0001-0030 | |
| APRIL | | | | | SEPTEMBER | | | | | DECEMBER | | | | |
| 1-2 13-14 14-15 | 59 59 61 | RB, P HA N | 2053-2150 2210-0050 2150-2350 | 66 | 3-4 4-5 7-8 8-9 9-10 14-15 15-16 20-21 | 54 61 57 57 57 61 60 61 | RA, RB, P ₂ N N N N N N N | 2048-0330 2050 2000-2345 2110-2120 2050-2300 2150 2050-0100 2120-2400 | 60 | 5-6 8-9 13-14 14-15 22-23 | 59 63 58 55 58 | HA N N HA, RA, RB N | 1830-0135 2330 1910-2130 1705-2300 2300 | 63 |

The above table was compiled in the Balfour Stewart Auroral Laboratory of the University of Edinburgh from all data available for the sector between geomagnetic longitudes 70° and 90°E., using mainly observations made at British Meteorological Office stations and by British voluntary observers on land and in ships and aircraft, but including also data from Iceland, Faroe, Ireland and France. Acknowledgment is made to the authorities in these countries responsible for the organization and collection of observations.

In the table, Φ_1 is the lowest geomagnetic latitude from which aurora was seen in the longitudes considered.

On any night, if more than a glow on the northern horizon was seen from the British Isles, the other forms reported are listed and the period of time (GMT) during which the display was observed from the British Isles is stated.

The standard abbreviations used are those defined in the International Auroral Atlas, (1963). The system of reporting defined therein came into operation on 1 January 1964.

N denotes an aurora, the form of which is not identifiable because of adverse observing conditions. It includes the glow on the horizon, since this is the upper part of a display, the identifiable portion of which is below the horizon.

HA = homogeneous arc; RA = rayed arc; HB = homogeneous band; RB = rayed band; R = isolated rays; P = patch of diffuse luminosity. The two types of pulsing of auroral forms described as pulsation and flaming are designated by the symbols p_1 and p_2 respectively.

Under Φ_1 , is given the lowest geomagnetic latitude in which aurora was situated overhead in the longitudes considered. The absence of direct visual observations Φ_2 , is deduced from measurements of elevation made in other latitudes, assuming a height of 100 km for the lower edges of arcs and bands.

Because of varying observing conditions, these data are in some cases incomplete; aurora may have been overhead in latitudes lower than those listed and other forms may have occurred. Fuller details may be obtained from the laboratory on request.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

Mean values for hours without hydrometeors and for fair weather hours

17 LERWICK

Factor 2·71

JANUARY 1966

POTENTIAL GRADIENT (close to the ground, over an open level surface). Mean values for hours without hydrometeors and for fair weather hours

17 LERWICK

Factor 2·63

FEBRUARY 1966

| | Hour | GMT | volts per metre | | | | | | | | | | | | | | | | | | | | | | | | Mean |
|-------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------|-------------|-------------|-------------|------------------|------------------|-------------|---------------------------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 60 | 50 | 60 | 60 | 70 ⁺ | 70 ⁺ | 70 ⁺ | 70 ⁺ | 80 | 125 | 115 | 150 | 125 | 125 | 150 | 180 | 140 | 145 | 125 | 125 | 90 | 80 | 75 | 70 | | | |
| 3 | 105 | | 160 | 65 | 35 ⁺ | 40 ⁺ | | 185 ⁺ | 200 ⁺ | 160 ⁺ | 165 ⁺ | 185 ⁺ | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | 105 ⁺ | 115 ⁺ | 125 ⁺ | | | | | | | 185 ⁺ | 230 ⁺ | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 100 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 90 | 140 | 125 ⁺ | 180 ⁺ | 105 ⁺ | 140 ⁺ | 150 ⁺ | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Oa | 125 | 110 | 110 | 105 | 140 | 150 | 140 | 120 | 150 | 160 | 200 | 160 | 195 | 185 | 195 | 160 | 195 | 220 | 210 | 200 | 195 | 170 | 175 | 160 | 158 (24) | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | 125 ⁺ | 170 | 150 | 170 | 115 ⁺ | 140 ⁺ | 170 | 160 | 150 | 140 | 145 ⁺ | 160 | 125 ⁺ | 105 ⁺ | 130 | 110 | 120 | 160 | 180 | 115 | 130 | 110 ⁺ | 110 ⁺ | 110 (24) | | |
| 13 | Oa | 130 ⁺ | 120 ⁺ | 115 ⁺ | 110 ⁺ | 90 ⁺ | 90 ⁺ | 100 ⁺ | 100 | 100 | 110 ⁺ | 105 ⁺ | 110 ⁺ | 110 ⁺ | 125 ⁺ | 115 ⁺ | 115 ⁺ | 115 ⁺ | 120 | 130 | 115 | 110 | 105 | 90 | | | |
| 14 | | 130 | 145 | 125 | 110 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | 80 | 80 | 70 | 65 | 65 | 85 | 85 | 115 | 105 | 90 | 115 | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | 80 | 80 | | | 105 | 100 | 100 | | | | | | | | | | | | | | | | | | 85 | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | 161 (13) | 162 (13) | 134 (11) | 128 (13) | 125 (13) | 149 (14) | 127 (17) | 145 (16) | 160 (16) | 162 (17) | 154 (19) | 168 (16) | 167 (15) | 171 (17) | 175 (17) | 168 (19) | 156 (19) | 156 (17) | 167 (17) | 190 (16) | 207 (14) | 194 (13) | 169 (14) | 152 (14) | 147 (13) | 160 | |
| Fair Weather Mean | 107 (10) | 114 (10) | 113 (8) | 110 (7) | 103 (11) | 117 (8) | -126 (11) | 153 (12) | 160 (12) | 159 (12) | 141 (9) | 139 (8) | 149 (9) | 148 (7) | 162 (9) | 149 (11) | 144 (11) | 157 (12) | 161 (12) | 162 (10) | 145 (10) | 135 (12) | 127 (10) | 115 (10) | 137 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | Mean of Os days [134 (2)] | |

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometers and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for Oa days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| 17 LERWICK | | | | | | | | | | | | Factor 2-59 | | | | | | | | | | | | MARCH 1966 | | | |
|-------------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|-------------|-------------|-------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|--------------|------|--|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | |
| 1 Oa | 90 | 95 | 70 | 75 | 135 | | | -+ | -+ | 140 | | 115+ | volts per metre | | | | | | | | | | | | 133 | (16) | |
| 2 | 100 | 135 | 125 | 125 | 180 | | | 190 | | | | | 125+ | 105+ | 95+ | 105+ | 120+ | 150+ | 180+ | 170+ | 150+ | 125+ | 120+ | 100+ | | | |
| 3 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | 196 | (24) | |
| 4 Oa | 105 | 100 | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 5 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 6 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 7 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 8 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 9 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 10 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 11 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 12 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 13 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 14 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 15 Oa | 90 | 80 | 75 | 80 | 90 | 95 | 90 | 135+ | 105+ | 95+ | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | 118 | (15) | |
| 16 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 17 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 18 Oa | 95 | 90 | 90 | 90 | 90 | 95 | 95 | 100+ | 90+ | 105+ | 105+ | 105+ | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | 125 | (24) | |
| 19 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 20 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 21 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 22 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 23 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 24 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 25 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 26 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 27 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 28 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 29 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 30 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| 31 | | | | | | | | | | | | | 180 | 225 | 190 | 175+ | 145+ | 160+ | 130+ | 160+ | 175+ | 125+ | 100 | 115 | | | |
| Mean | 94 (18) | 97 (18) | 78 (13) | 83 (12) | 87 (12) | 96 (10) | 101 (9) | 100 (11) | 103 (9) | 130 (12) | 118 (10) | 114 (9) | 127 (7) | 137 (10) | 129 (10) | 123 (12) | 132 (11) | 159 (12) | 143 (11) | 130 (12) | 109 (14) | 109 (17) | 116 (15) | 114 | | | |
| Fair Weather Mean | 92 (12) | 97 (13) | 80 (12) | 82 (11) | 83 (9) | 82 (6) | 107 (6) | 88 (5) | 100 (4) | 121 (4) | 139 (4) | 129 (4) | 135 (3) | 153 (3) | 152 (3) | 123 (3) | 123 (4) | 139 (5) | 147 (3) | 136 (4) | 117 (6) | 92 (7) | 93 (8) | 97 (9) | 113 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Mean of Oa days | [143 (4)] | | |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 0 days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| Factor 2-64 | | | | | | | | | | | | | MAY 1966 | | | | | | | | | | | | | | | |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | |
| 1 Oa | 115 ⁺ | 110 ⁺ | 125 | 155 | 210 ⁺ | 220 ⁺ | 265 ⁺ | 405 ⁺ | 565 ⁺ | 395 | 370 | 350 | 520 | 380 ⁺ | 200 ⁺ | 195 | 210 | 185 ⁺ | 185 ⁺ | 115 ⁺ | 100 ⁺ | 100 ⁺ | 105 ⁺ | 105 ⁺ | 100 ⁺ | 100 ⁺ | 237 | |
| 2 Oa | 135 ⁺ | 125 ⁺ | 115 ⁺ | 115 | 110 | 115 ⁺ | 105 ⁺ | 105 ⁺ | 100 ⁺ | 105 ⁺ | 85 ⁺ | 105 | 125 | 135 | 125 | 120 | 90 | 100 | 100 ⁺ | 100 ⁺ | 155 ⁺ | 125 ⁺ | 125 ⁺ | 125 ⁺ | 80 ⁺ | 107 | | |
| 3 | 65 | 45 | 20 | 0 | | | | | | | | | | | | | | | | | | | | | | (24) | | |
| 4 | 65 | 80 | 60 | 65 | 75 | 105 | 165 | 115 | 105 | 90 ⁺ | 90 ⁺ | 110 ⁺ | 115 ⁺ | 125 ⁺ | 110 ⁺ | 120 ⁺ | 115 ⁺ | 120 ⁺ | 85 ⁺ | 105 | 85 ⁺ | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 Oa | 105 ⁺ | 105 | 85 | 90 | 85 | 80 | 85 | 105 | 105 ⁺ | 130 ⁺ | 140 ⁺ | 155 ⁺ | 135 | 130 ⁺ | 120 ⁺ | 130 ⁺ | 120 | 115 | 120 | 135 | 140 | 145 | 140 | 140 | 110 ⁺ | 125 ⁺ | 115 | |
| 8 | 85 | 80 | 80 | 85 | 100 | 130 | 135 | 135 | 130 | 140 ⁺ | 155 ⁺ | 140 ⁺ | 135 | 155 ⁺ | 160 ⁺ | 150 ⁺ | 150 ⁺ | 150 ⁺ | 110 ⁺ | 100 ⁺ | 240 ⁺ | 310 ⁺ | 240 ⁺ | 310 ⁺ | 255 ⁺ | 280 ⁺ | (22) | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 Oa | 255 ⁺ | 185 ⁺ | 150 ⁺ | 180 ⁺ | 190 ⁺ | 200 ⁺ | 220 ⁺ | 230 ⁺ | 230 ⁺ | 240 ⁺ | 175 ⁺ | 100 ⁺ | 105 ⁺ | 100 ⁺ | 105 ⁺ | 135 ⁺ | 280 ⁺ | 240 ⁺ | 220 ⁺ | 265 ⁺ | 315 ⁺ | 360 ⁺ | 415 ⁺ | 475 ⁺ | 370 ⁺ | 315 ⁺ | 267 | |
| 12 | 290 ⁺ | 220 ⁺ | 220 ⁺ | 245 ⁺ | 245 ⁺ | 265 ⁺ | 225 ⁺ | 230 ⁺ | 215 ⁺ | 210 ⁺ | 130 ⁺ | 155 ⁺ | 155 ⁺ | 160 ⁺ | 130 ⁺ | 120 ⁺ | 115 ⁺ | 115 ⁺ | 115 ⁺ | 125 ⁺ | 243 | | |
| 13 Oa | 105 ⁺ | 135 ⁺ | 125 | 100 ⁺ | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 265 | 420 | |
| 14 Oa | 165 | 175 ⁺ | 175 ⁺ | 150 ⁺ | 125 ⁺ | 135 ⁺ | 115 ⁺ | 185 ⁺ | 240 ⁺ | 115 ⁺ | 125 ⁺ | 125 ⁺ | 135 ⁺ | 120 ⁺ | 105 ⁺ | 125 ⁺ | 135 ⁺ | 120 ⁺ | 141 | | |
| 15 | 125 ⁺ | 115 ⁺ | 115 ⁺ | 115 ⁺ | 120 ⁺ | 135 ⁺ | 135 ⁺ | 145 ⁺ | 140 ⁺ | 135 ⁺ | 135 ⁺ | 140 ⁺ | (21) | | |
| 16 Oa | 70 ⁺ | 80 ⁺ | 85 ⁺ | 85 | 90 | 100 | 105 | 105 | 75 | 90 | 150 | 160 | 185 | 290 | 370 | 475 | 660 | 670 | 430 | 350 | 185 ⁺ | 85 ⁺ | 75 ⁺ | 100 ⁺ | 211 | (24) | | |
| 17 | 70 ⁺ | 65 ⁺ | 105 ⁺ | 135 ⁺ | 160 ⁺ | 100 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 135 | |
| 18 | 115 | 110 | 115 | 115 | 110 | 120 | 135 | 150 | 240 | 365 ⁺ | 300 ⁺ | 310 ⁺ | 265 ⁺ | 325 ⁺ | 240 ⁺ | 220 | 360 | 510 | 450 | 395 | 310 | 220 | 210 | 360 ⁺ |
| 19 | 150 ⁺ | 140 ⁺ | 160 ⁺ | 185 ⁺ | 220 ⁺ | 265 ⁺ | 290 | 350 | 265 | 255 | 245 | 335 ⁺ | 370 ⁺ | 465 ⁺ | 520 ⁺ | 640 ⁺ | 695 ⁺ | 535 ⁺ | 510 ⁺ | 450 ⁺ | 395 ⁺ | 450 ⁺ | 120 | 120 | 120 | 120 | 120 | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 110 | 125 ⁺ | 160 ⁺ | 130 | 140 | 115 | 120 ⁺ | 130 ⁺ | 140 | 160 | 155 | 145 | 155 | 155 | 160 | 150 | 145 | 210 ⁺ | 255 ⁺ | 325 | 370 | 255 | 350 ⁺ | 415 | | | | |
| 22 | 245 | 255 | 185 | 140 | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 120 | 125 | 105 | 100 | 105 | 80 | 125 | 70 ⁺ | 140 ⁺ | 115 ⁺ | 125 ⁺ | 150 ⁺ | 125 ⁺ | 125 ⁺ | 125 ⁺ | 125 ⁺ | 110 ⁺ | 160 ⁺ | 155 | 160 | 155 | 140 | 125 | 125 | 120 | 110 | 115 | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 Oa | 100 | 95 | 85 | 100 | 95 | 95 | 105 | 105 | 105 | 105 | 145 | 150 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 126 | |
| 28 Oa | 105 | 95 | 95 | 95 | 95 | 105 | 125 | 145 | 175 | 160 | 225 | 230 | 220 | 220 | 215 | 245 | 290 | 280 | 240 | 240 | 230 ⁺ | 265 ⁺ | 240 | 240 | 240 | 240 | 191 | |
| 29 Oa | 265 | 240 | 160 | 160 | 140 | 130 | 160 | 165 | 185 | 185 ⁺ | 265 ⁺ | 195 ⁺ | 255 ⁺ | 210 ⁺ | 175 ⁺ | 172 | | |
| 30 Oa | 150 ⁺ | 195 ⁺ | | | | | | | | | 265 ⁺ | 220 ⁺ | 175 ⁺ | 140 ⁺ | 193 | |
| 31 Oa | 175 | 160 | | | | | | | | | 280 ⁺ | 265 ⁺ | 325 ⁺ | 360 ⁺ | 395 ⁺ | 290 ⁺ | 290 ⁺ | 300 ⁺ | 280 ⁺ | 220 ⁺ | 255 ⁺ | 290 ⁺ | 265 ⁺ | 255 ⁺ | 255 ⁺ | 240 ⁺ | 210 ⁺ | 270 |
| Mean | 137 | 132 | 119 | 121 | 137 | 140 | 157 | 168 | 195 | 207 | 211 | 205 | 227 | 253 | 233 | 226 | 240 | 236 | 217 | 223 | 210 | 193 | 160 | 166 | | | 188 | |
| Fair Weather Mean | 132 | 130 | 110 | 100 | 101 | 107 | 135 | 154 | 168 | 209 | 213 | 184 | 225 | 196 | 203 | 223 | 254 | 305 | 254 | 227 | 261 | 196 | 154 | 173 | (8) | | 184 | |
| | (22) | (23) | (22) | (22) | (21) | (18) | (20) | (20) | (20) | (19) | (19) | (20) | (19) | (17) | (18) | (20) | (19) | (21) | (24) | (22) | (21) | (20) | (21) | (21) | (22) | | | |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| 17 LERWICK | Factor 2-60 | | | | | | | | | | | | | | | | | | | | | | | | JUNE 1966 | | | |
|-------------------|-------------|-----|-----|-----|-----|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|------|------------|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Oa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | 157 | 171 | 161 | 191 | 143 | 105 | 120 | 142 | 189 | 199 | 186 | 180 | | 173 | 204 | 226 | 234 | 232 | 259 | 255 | 265 | 206 | 199 | 203 | 157 | 190 |
| Fair Weather Mean | | | 150 | 180 | 171 | 121 | 130 | 114 | 122 | 148 | 159 | 188 | 199 | 177 | 177 | 150 | 176 | 183 | 181 | 192 | 244 | 221 | 219 | 218 | 203 | 181 | 144 | 174 |
| | | | (7) | (7) | (6) | (12) | (10) | (10) | (11) | (10) | (15) | (18) | (17) | (17) | | (9) | (8) | (8) | (8) | (7) | (17) | (17) | (16) | (13) | (14) | (12) | (14) | [226 (10)] |

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometers and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 0a days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

17 LERWICK

Factor 2·56

JULY 1966

POTENTIAL GRADIENT (close to the ground, over an open level surface). Mean values for hours without hydrometeors and for fair weather hours

17 LERWICK

Factor 2·55

AUGUST, 1966

| | Hour 0-1 | GMT 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | | | |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----|------|
| | | | | | | | | | | | | | volts per metre | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 85 | 90 | 90 | 75 | 85 | 145 | 100 ⁺ | 90 ⁺ | 155 ⁺ | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | 110 | 160 | 225 | 235 | 290 | 405 | 495 | | | | | | | | | | | | | | | | | | | |
| 4 | 220 | 280 | 280 | 280 | 280 | 260 | 205 ⁺ | 195 ⁺ | 150 ⁺ | 110 ⁺ | 125 ⁺ | 90 ⁺ | 65 ⁺ | 325 ⁺ | 335 ⁺ | 405 ⁺ | 300 ⁺ | 235 ⁺ | 200 ⁺ | 215 ⁺ | 290 ⁺ | 270 ⁺ | 245 ⁺ | 270 | | | | | |
| 5 | 130 | 145 | 105 | 105 | 100 | 110 | | | | 180 ⁺ | 140 ⁺ | 135 ⁺ | 140 | 155 | 125 | 110 | 135 ⁺ | 135 ⁺ | 130 ⁺ | 155 ⁺ | | | 170 ⁺ | 190 ⁺ | 137 | (19) | | | |
| 6 | 100 ⁺ | 180 ⁺ | 170 ⁺ | 170 ⁺ | 145 ⁺ | 145 ⁺ | | | 105 ⁺ | 125 | 120 | 130 ⁺ | 110 ⁺ | 105 | 110 | 95 | 80 | 90 | 90 | 85 | 85 | 80 | 90 ⁺ | 130 ⁺ | 120 | (22) | | | |
| 7 | 160 ⁺ | 245 ⁺ | 255 ⁺ | 190 ⁺ | 145 ⁺ | 200 ⁺ | 200 ⁺ | 140 ⁺ | 145 ⁺ | 135 | 125 | 135 | 130 | 125 | 135 | 135 | 145 | 155 | 135 | 110 | 110 ⁺ | 120 ⁺ | 125 | 125 | 151 | | | | |
| 8 | 105 | 105 | 115 | 100 | 100 | 125 | 155 | 145 | 120 | 110 | 130 | 130 | 125 | 110 | 125 | 130 | 130 | 125 | 120 | 135 | 105 | 125 | 130 | 125 | 122 | | | | |
| 9 | 115 | 110 | 110 | 100 | 100 | 100 | 150 | 120 | 100 | 105 ⁺ | 140 | 160 | 170 | 180 | 195 | 180 | 195 | 215 | 190 | 170 ⁺ | 235 ⁺ | 280 ⁺ | 260 ⁺ | 157 | | | | | |
| 10(Oa) | 245 ⁺ | 270 ⁺ | 235 ⁺ | 185 ⁺ | 190 ⁺ | 190 ⁺ | 195 ⁺ | 220 ⁺ | 260 ⁺ | 205 ⁺ | 190 ⁺ | 150 ⁺ | 170 ⁺ | | | | | | | | | | | | 216 | (13) | | | |
| 11(Oa) | - | - | - | - | - | - | - | - | 100 ⁺ | 100 ⁺ | 100 | 90 ⁺ | 95 ⁺ | 90 | 95 | 85 | 95 | 95 | 110 | 100 | 100 | 110 | 105 | 95 | 85 | 97 | (16) | | |
| 12 | 80 | 55 | 55 | 55 | 60 | 75 | 85 | 95 | 110 | 120 | 105 | 105 | 110 | 120 | 100 | 125 | 120 | 105 | 105 | 100 | 100 | 110 | 90 | 90 | 95 | 95 | (24) | | |
| 13 | 85 | 80 | 65 | 65 | 65 | 65 | 65 | 90 | 95 | 100 | 95 | 100 ⁺ | 100 | 100 | 100 | 120 | 110 | 120 | 125 | 145 | 135 | 125 | 120 | 105 | 101 | (24) | | | |
| 14 | 85 | 85 | 80 | 80 | 80 ⁺ | 80 ⁺ | 85 ⁺ | 80 ⁺ | 85 ⁺ | 80 ⁺ | 90 ⁺ | 95 ⁺ | 100 ⁺ | 100 ⁺ | 100 ⁺ | 130 ⁺ | 125 ⁺ | 125 | 125 | 125 | 120 | 110 | | | | | | | |
| 15 | 95 | 90 | 90 | 85 | 85 | 100 | 90 | 100 | 100 ⁺ | 108 ⁺ | 100 ⁺ | 100 ⁺ | 100 ⁺ | 100 ⁺ | 110 ⁺ | 135 ⁺ | 140 ⁺ | 150 | 145 | 150 | 155 | 145 | 140 | 113 | (24) | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 175 | 170 | 140 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17(Oa) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 100 | 90 | 90 | 80 | 90 | - | 425 ⁺ | 390 ⁺ | 245 ⁺ | 215 ⁺ | - | | 100 ⁺ | 135 ⁺ | 135 ⁺ | 105 ⁺ | 105 ⁺ | 100 ⁺ | 95 ⁺ | 110 ⁺ | 100 ⁺ | - | - | - | - | 151 | (21) | | |
| 19 | | | | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 20 | - | - | - | - | - | - | - | - | - | - | - | - | 135 ⁺ | 135 ⁺ | 140 | 145 | 150 ⁺ | 155 ⁺ | 145 ⁺ | 145 ⁺ | 175 ⁺ | 175 ⁺ | 175 ⁺ | 175 ⁺ | | | | | |
| 21 | 100 | 95 | 80 | 65 | 85 | 90 | 100 | 100 | 125 | 180 ⁺ | 170 ⁺ | | | | | | 135 ⁺ | 145 | 135 | 145 | 150 | 170 | 130 | 135 | 135 ⁺ | 125 ⁺ | 95 ⁺ | 122 | (22) |
| 22 | 85 ⁺ | 75 ⁺ | 65 | 65 | 65 | 65 | 65 | 55 | 85 | 65 ⁺ | | | | | | | 105 ⁺ | 105 ⁺ | - | 100 ⁺ | 95 ⁺ | 110 ⁺ | 100 ⁺ | - | - | - | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | 75 | 65 | 75 | 80 | 65 | 50 | 65 | 95 | 105 ⁺ | 100 | 95 | 95 | 100 | 90 | 100 | 105 | 100 | 45 ⁺ | 75 ⁺ | 85 ⁺ | 110 ⁺ | 135 ⁺ | 200 ⁺ | 155 ⁺ | | | | | |
| 25 | 125 ⁺ | 125 ⁺ | | | | | | | 225 ⁺ | 145 ⁺ | 145 | 135 | 140 | 150 | 160 | 155 | 150 | 135 | 130 | 125 | 170 | 160 | 145 | 200 ⁺ | 180 ⁺ | 173 | (24) | | |
| 26 | 155 ⁺ | 155 ⁺ | 145 ⁺ | 155 ⁺ | 135 ⁺ | 130 ⁺ | 200 ⁺ | 280 ⁺ | 235 ⁺ | 145 ⁺ | 145 ⁺ | 190 ⁺ | 180 ⁺ | 195 ⁺ | 245 | 205 | 175 | 160 | 130 ⁺ | 155 ⁺ | 205 ⁺ | 185 ⁺ | 155 | 170 | 176 | (24) | | | |
| 27 | 120 | 110 | 105 | 105 | 125 | 120 | 125 | 125 | 125 | 110 | 125 | 125 | 125 | 125 | 110 | 105 | 95 | 100 | 110 | 120 | 125 | 130 | 130 | 119 | (24) | | | | |
| 28 | 170 | 125 | 100 | 90 | 90 | 110 | 170 | 140 | 155 | 140 | 130 | 130 | 150 | 180 | 175 | 225 | 245 | 185 ⁺ | 270 ⁺ | 300 ⁺ | 335 ⁺ | 345 ⁺ | 280 ⁺ | 270 ⁺ | 225 ⁺ | 200 ⁺ | 160 | | |
| 29 | 200 ⁺ | | | | | | | | 270 ⁺ | 205 ⁺ | 180 ⁺ | 155 ⁺ | 190 ⁺ | 235 ⁺ | 280 ⁺ | 300 ⁺ | 345 ⁺ | 345 ⁺ | 270 ⁺ | 290 ⁺ | 280 ⁺ | 270 ⁺ | 225 ⁺ | 200 ⁺ | 242 | (24) | | | |
| 30 | 245 ⁺ | 255 ⁺ | 155 ⁺ | 130 | 135 ⁺ | 145 ⁺ | 155 ⁺ | 100 ⁺ | 110 ⁺ | 120 ⁺ | 140 ⁺ | 135 ⁺ | 125 ⁺ | 140 ⁺ | 140 ⁺ | 150 ⁺ | 145 ⁺ | 145 ⁺ | 110 ⁺ | 10 ⁺ | 35 | | | | | | | | |
| 31 | | | | | | | | | 80 ⁺ | 75 ⁺ | 100 | 135 | 145 | 180 ⁺ | 170 ⁺ | 140 ⁺ | 140 ⁺ | 140 ⁺ | 140 | 110 | 100 | 95 | 95 | 75 | 85 | | | | |
| Mean | 137 | 136 | 122 | 115 | 114 | 127 | 157 | 155 | 147 | 124 | 130 | 130 | 133 | 144 | 152 | 155 | 146 | 137 | 136 | 135 | 141 | 138 | 141 | 147 | 139 | | | | |
| Fair Weather Mean | 116 | 113 | 103 | 100 | 102 | 115 | 118 | 128 | 147 | 148 | 115 | 122 | 130 | 129 | 137 | 137 | 136 | 132 | 129 | 124 | 119 | 119 | 110 | 129 | 123 | | | | |

The potential gradient is reckoned as positive when the potential increases upwards. The small ⁺ denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for Q_m days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface). Mean values for hours without hydrometeors and for fair weather hours

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometers and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 04 days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

17 LERWICK

Factor 2·48

NOVEMBER 1966

POTENTIAL GRADIENT (close to the ground, over an open level surface)
Mean values for hours without hydrometeors and for fair weather hours.

17 LERWICK

Factor 2·55

DECEMBER 1966

The potential gradient is reckoned as positive when the potential increases upwards. The small * denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for $0a$ days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Monthly, seasonal and annual means for hours without hydrometeors and for fair weather hours

18 LERWICK

1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|-------|------|
| volts per metre | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No hydrometeors | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | 156 | 145 | 136 | 127 | 131 | 129 | 141 | 153 | 186 | 209 | 231 | 168 | 174 | 167 | 155 | 161 | 167 | 180 | 179 | 183 | 184 | 175 | 182 | 172 | 166 | | |
| Feb. | 161 | 162 | 134 | 128 | 128 | 149 | 127 | 145 | 160 | 162 | 154 | 168 | 167 | 171 | 175 | 168 | 156 | 167 | 190 | 207 | 194 | 169 | 152 | 147 | 160 | | |
| Mar. | 94 | 97 | 78 | 83 | 87 | 96 | 101 | 100 | 103 | 130 | 118 | 114 | 127 | 137 | 129 | 123 | 132 | 132 | 159 | 143 | 130 | 109 | 109 | 116 | 114 | | |
| Apr. | 108 | 99 | 103 | 95 | 102 | 102 | 114 | 116 | 124 | 123 | 143 | 151 | 136 | 155 | 155 | 153 | 150 | 149 | 154 | 149 | 145 | 154 | 142 | 132 | 132 | | |
| May | 137 | 132 | 119 | 121 | 137 | 140 | 157 | 168 | 195 | 207 | 211 | 205 | 227 | 253 | 233 | 226 | 240 | 236 | 217 | 223 | 210 | 193 | 160 | 166 | 188 | | |
| June | 157 | 171 | 161 | 191 | 143 | 105 | 120 | 142 | 189 | 199 | 186 | 180 | 173 | 204 | 226 | 234 | 232 | 259 | 255 | 265 | 206 | 199 | 203 | 157 | 190 | | |
| July | 118 | 120 | 113 | 112 | 117 | 131 | 147 | 146 | 141 | 136 | 120 | 127 | 130 | 130 | 137 | 163 | 135 | 145 | 146 | 144 | 141 | 139 | 127 | 132 | 133 | | |
| Aug. | 137 | 136 | 122 | 115 | 114 | 127 | 157 | 157 | 155 | 147 | 124 | 130 | 133 | 144 | 152 | 155 | 146 | 137 | 136 | 135 | 141 | 138 | 141 | 147 | 139 | | |
| Sept. | 121 | 120 | 120 | 135 | 102 | 113 | 124 | 141 | 135 | 108 | 109 | 114 | 139 | 145 | 134 | 124 | 121 | 121 | 122 | 124 | 128 | 144 | 115 | 121 | 124 | | |
| Oct. | 113 | 119 | 113 | 122 | 125 | 112 | 131 | 127 | 116 | 130 | 153 | 157 | 130 | 137 | 160 | 160 | 180 | 176 | 185 | 161 | 174 | 161 | 138 | 123 | 142 | | |
| Nov. | 106 | 105 | 90 | 95 | 97 | 108 | 101 | 110 | 121 | 126 | 119 | 113 | 133 | 142 | 149 | 153 | 157 | 163 | 162 | 163 | 159 | 130 | 124 | 126 | 127 | | |
| Dec. | 123 | 117 | 108 | 113 | 114 | 129 | 142 | 131 | 154 | 163 | 160 | 203 | 152 | 144 | 145 | 180 | 163 | 184 | 155 | 153 | 170 | 162 | 156 | 160 | 149 | | |
| Year | 128 | 127 | 116 | 120 | 116 | 120 | 130 | 136 | 148 | 153 | 152 | 153 | 152 | 161 | 163 | 167 | 165 | 171 | 171 | 171 | 165 | 155 | 147 | 142 | 147 | | |
| Winter | 137 | 132 | 117 | 116 | 117 | 129 | 128 | 135 | 155 | 165 | 166 | 163 | 157 | 156 | 156 | 165 | 161 | 173 | 171 | 177 | 177 | 159 | 153 | 151 | 151 | | |
| Equinox | 109 | 109 | 103 | 109 | 104 | 106 | 117 | 121 | 119 | 123 | 131 | 134 | 133 | 143 | 145 | 141 | 147 | 145 | 154 | 145 | 145 | 140 | 129 | 125 | 128 | | |
| Summer | 137 | 140 | 129 | 135 | 128 | 126 | 145 | 153 | 170 | 172 | 160 | 161 | 166 | 183 | 187 | 195 | 188 | 194 | 189 | 192 | 175 | 167 | 158 ^e | 151 | 163 | | |
| Fair weather | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | 91 | 104 | 93 | 97 | 90 | 91 | 103 | 107 | 131 | 141 | 156 | 141 | 155 | 144 | 147 | 137 | 130 | 144 | 148 | 147 | 155 | 127 | 115 | 93 | 124 | | |
| Feb. | 107 | 114 | 113 | 110 | 103 | 117 | 126 | 153 | 160 | 159 | 141 | 139 | 149 | 148 | 162 | 149 | 144 | 157 | 161 | 162 | 145 | 135 | 127 | 115 | 137 | | |
| Mar. | 92 | 97 | 80 | 82 | 83 | 82 | 107 | 88 | 100 | 121 | 139 | 129 | 135 | 153 | 152 | 123 | 123 | 139 | 147 | 136 | 117 | 92 | 93 | 97 | 113 | | |
| Apr. | 105 | 101 | 100 | 100 | 97 | 103 | 112 | 125 | 135 | 135 | 125 | 119 | 126 | 135 | 148 | 154 | 139 | 137 | 144 | 147 | 137 | 137 | 131 | 119 | 125 | | |
| May | 132 | 130 | 110 | 100 | 101 | 97 | 135 | 154 | 168 | 209 | 213 | 184 | 225 | 196 | 203 | 223 | 254 | 305 | 254 | 227 | 261 | 196 | 154 | 173 | 184 | | |
| June | 150 | 180 | 171 | 121 | 130 | 114 | 122 | 148 | 159 | 188 | 199 | 177 | 150 | 176 | 183 | 181 | 192 | 244 | 221 | 219 | 218 | 203 | 181 | 144 | 174 | | |
| July | 105 | 106 | 108 | 101 | 116 | 126 | 180 | 179 | 178 | 177 | 163 | 178 | 129 | 136 | 171 | 173 | 157 | 149 | 151 | 151 | 139 | 149 | 124 | 116 | 144 | | |
| Aug. | 116 | 113 | 103 | 100 | 102 | 115 | 118 | 128 | 147 | 148 | 115 | 122 | 130 | 129 | 137 | 137 | 136 | 132 | 129 | 124 | 119 | 119 | 110 | 129 | 123 | | |
| Sept. | 94 | 86 | 99 | 93 | 86 | 100 | 119 | 134 | 131 | 114 | 145 | 153 | 136 | 163 | 117 | 121 | 129 | 123 | 122 | 123 | 126 | 120 | 109 | 123 | 119 | | |
| Oct. | 96 | 98 | 104 | 94 | 94 | 94 | 93 | 128 | 107 | 126 | 127 | 117 | 121 | 141 | 134 | 151 | 157 | 132 | 153 | 145 | 148 | 138 | 112 | 123 | 122 | | |
| Nov. | 114 | 97 | 91 | 86 | 92 | 93 | 100 | 94 | 106 | 118 | 118 | 106 | 133 | 141 | 146 | 154 | 152 | 170 | 167 | 174 | 150 | 111 | 109 | 134 | 123 | | |
| Dec. | 104 | 126 | 94 | 98 | 93 | 109 | 129 | 113 | 135 | 151 | 181 | 221 | 150 | 127 | 125 | 135 | 135 | 200 | 163 | 157 | 178 | 166 | 149 | 176 | 142 | 142 | |
| Year | 109 | 113 | 105 | 99 | 99 | 103 | 120 | 129 | 138 | 149 | 152 | 149 | 145 | 149 | 152 | 153 | 154 | 169 | 163 | 159 | 158 | 141 | 126 | 129 | 136 | | |
| Winter | 104 | 110 | 98 | 98 | 95 | 103 | 115 | 117 | 133 | 142 | 149 | 152 | 147 | 140 | 145 | 144 | 140 | 168 | 160 | 160 | 157 | 135 | 125 | 129 | 132 | | |
| Equinox | 97 | 95 | 96 | 92 | 90 | 95 | 108 | 119 | 118 | 124 | 134 | 130 | 130 | 148 | 138 | 137 | 137 | 133 | 141 | 138 | 132 | 122 | 111 | 115 | 120 | | |
| Summer | 126 | 132 | 123 | 105 | 112 | 113 | 139 | 152 | 163 | 181 | 173 | 165 | 159 | 159 | 173 | 179 | 185 | 207 | 189 | 180 | 184 | 167 | 142 | 141 | 156 | | |

Annual mean for 0s days [165]

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

ESKDALEMUIR

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000y (0.16 COS unit) +

JANUARY 1966

| | Hour | GMT | 16,000y (0.16 COS unit) + | | | | | | | | | | | | | | | | | | | | | | | Sum | |
|--------------|------|-----|---------------------------|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 21,000y+ | |
| 1 q | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 1219 |
| 2 | 918 | 920 | 920 | 922 | 925 | 929 | 933 | 932 | 927 | 924 | 923 | 925 | 926 | 926 | 930 | 928 | 927 | 927 | 924 | 926 | 926 | 927 | 927 | 927 | 926 | 926 | |
| 3 | 924 | 919 | 936 | 932 | 936 | 934 | 933 | 931 | 925 | 926 | 925 | 929 | 931 | 927 | 925 | 921 | 918 | 925 | 925 | 916 | 916 | 916 | 916 | 916 | 916 | 926 | |
| 4 | 919 | 933 | 915 | 919 | 920 | 923 | 923 | 925 | 924 | 922 | 920 | 920 | 920 | 923 | 923 | 923 | 917 | 917 | 911 | 923 | 915 | 918 | 917 | 916 | 916 | 1233 | |
| 5 | 917 | 918 | 919 | 921 | 925 | 926 | 927 | 929 | 926 | 923 | 923 | 928 | 928 | 931 | 932 | 931 | 933 | 918 | 920 | 902 | 930 | 893 | 909 | 913 | 922 | 1091 | |
| 6 | 917 | 919 | 919 | 918 | 924 | 926 | 925 | 925 | 927 | 926 | 925 | 920 | 917 | 921 | 926 | 932 | 934 | 931 | 932 | 920 | 904 | 903 | 912 | 917 | 922 | 1122 | |
| 7 | 911 | 910 | 908 | 911 | 919 | 924 | 931 | 928 | 925 | 925 | 925 | 923 | 922 | 925 | 921 | 916 | 920 | 924 | 923 | 920 | 917 | 916 | 916 | 916 | 920 | 1082 | |
| 8 | 931 | 916 | 919 | 920 | 921 | 925 | 926 | 926 | 925 | 923 | 920 | 919 | 921 | 928 | 929 | 926 | 918 | 905 | 912 | 922 | 933 | 915 | 908 | 921 | 910 | 1100 | |
| 9 | 915 | 913 | 918 | 920 | 925 | 919 | 924 | 919 | 916 | 918 | 919 | 918 | 922 | 925 | 926 | 925 | 923 | 911 | 916 | 917 | 923 | 915 | 918 | 918 | 918 | 1027 | |
| 10 | 923 | 917 | 917 | 919 | 921 | 924 | 925 | 925 | 927 | 925 | 922 | 920 | 920 | 924 | 925 | 925 | 928 | 928 | 928 | 925 | 921 | 916 | 921 | 916 | 923 | 1154 | |
| 11 | 929 | 921 | 917 | 919 | 920 | 924 | 925 | 925 | 924 | 919 | 917 | 919 | 924 | 928 | 928 | 924 | 925 | 927 | 928 | 925 | 924 | 923 | 925 | 924 | 924 | 1167 | |
| 12 q | 922 | 921 | 920 | 917 | 921 | 925 | 926 | 924 | 922 | 920 | 919 | 919 | 921 | 923 | 925 | 925 | 927 | 928 | 928 | 929 | 929 | 925 | 925 | 924 | 924 | 1170 | |
| 13 q | 923 | 924 | 925 | 926 | 927 | 929 | 931 | 934 | 932 | 929 | 926 | 925 | 924 | 926 | 929 | 928 | 926 | 931 | 930 | 925 | 925 | 927 | 926 | 927 | 927 | 1254 | |
| 14 | 924 | 926 | 924 | 925 | 926 | 928 | 929 | 932 | 932 | 929 | 926 | 928 | 934 | 936 | 936 | 925 | 922 | 925 | 926 | 927 | 925 | 923 | 917 | 924 | 927 | 1249 | |
| 15 | 915 | 919 | 921 | 921 | 926 | 929 | 931 | 932 | 930 | 927 | 922 | 921 | 923 | 925 | 923 | 918 | 930 | 932 | 929 | 927 | 924 | 924 | 925 | 925 | 925 | 1198 | |
| 16 q | 925 | 926 | 927 | 927 | 928 | 930 | 925 | 927 | 924 | 921 | 921 | 925 | 928 | 928 | 927 | 925 | 925 | 927 | 928 | 928 | 928 | 928 | 928 | 927 | 926 | 1233 | |
| 17 | 925 | 924 | 924 | 929 | 930 | 933 | 932 | 927 | 924 | 921 | 921 | 922 | 923 | 921 | 925 | 929 | 933 | 933 | 934 | 935 | 933 | 934 | 933 | 933 | 928 | 1269 | |
| 18 | 934 | 935 | 936 | 935 | 936 | 937 | 939 | 938 | 940 | 938 | 942 | 942 | 940 | 933 | 928 | 920 | 905 | 899 | 892 | 912 | 921 | 922 | 924 | 929 | 928 | 1286 | |
| 19 | 924 | 921 | 923 | 923 | 925 | 930 | 932 | 931 | 929 | 917 | 920 | 921 | 922 | 921 | 924 | 923 | 927 | 927 | 928 | 929 | 931 | 930 | 931 | 926 | 1221 | | |
| 20 d | 930 | 928 | 938 | 932 | 931 | 939 | 939 | 928 | 937 | 926 | 917 | 919 | 923 | 917 | 908 | 905 | 906 | 881 | 904 | 899 | 903 | 914 | 921 | 917 | 919 | 1062 | |
| 21 d | 936 | 904 | 912 | 913 | 917 | 918 | 920 | 921 | 930 | 924 | 928 | 924 | 913 | 911 | 886 | 903 | 912 | 921 | 886 | 907 | 906 | 912 | 927 | 910 | 914 | 941 | |
| 22 d | 906 | 909 | 910 | 912 | 917 | 926 | 929 | 949 | 934 | 926 | 913 | 901 | 914 | 910 | 868 | 907 | 899 | 896 | 910 | 914 | 918 | 939 | 905 | 905 | 913 | 917 | |
| 23 d | 901 | 905 | 910 | 915 | 921 | 924 | 917 | 924 | 917 | 900 | 906 | 902 | 892 | 894 | 910 | 917 | 920 | 909 | 911 | 912 | 912 | 916 | 921 | 911 | 873 | | |
| 24 d | 919 | 917 | 916 | 920 | 924 | 923 | 930 | 928 | 921 | 901 | 900 | 903 | 915 | 923 | 924 | 917 | 888 | 897 | 917 | 914 | 916 | 920 | 917 | 915 | 966 | | |
| 25 | 914 | 915 | 924 | 918 | 921 | 924 | 921 | 917 | 916 | 921 | 920 | 920 | 920 | 908 | 904 | 891 | 912 | 924 | 912 | 906 | 921 | 923 | 922 | 921 | 916 | 995 | |
| 26 | 921 | 920 | 924 | 926 | 926 | 923 | 924 | 929 | 918 | 910 | 913 | 914 | 897 | 912 | 919 | 913 | 907 | 917 | 919 | 905 | 905 | 917 | 927 | 928 | 917 | 1014 | |
| 27 | 919 | 917 | 914 | 919 | 922 | 926 | 919 | 915 | 909 | 906 | 909 | 914 | 917 | 919 | 919 | 920 | 921 | 922 | 924 | 924 | 923 | 921 | 918 | 918 | 1038 | | |
| 28 | 921 | 921 | 921 | 923 | 925 | 925 | 928 | 927 | 929 | 927 | 922 | 915 | 920 | 924 | 924 | 925 | 928 | 936 | 934 | 935 | 940 | 941 | 929 | 926 | 927 | | |
| 29 | 930 | 930 | 930 | 936 | 934 | 932 | 934 | 936 | 938 | 932 | 921 | 919 | 918 | 920 | 917 | 915 | 918 | 912 | 922 | 927 | 928 | 927 | 926 | 926 | 1229 | | |
| 30 | 928 | 926 | 928 | 929 | 930 | 932 | 932 | 931 | 931 | 932 | 929 | 929 | 925 | 916 | 916 | 908 | 906 | 912 | 921 | 927 | 925 | 925 | 925 | 925 | 925 | 1203 | |
| 31 q | 924 | 924 | 924 | 925 | 925 | 925 | 925 | 922 | 921 | 921 | 921 | 920 | 921 | 921 | 924 | 925 | 924 | 923 | 925 | 928 | 930 | 927 | 925 | 925 | 924 | 1181 | |
| Mean | 921 | 920 | 921 | 922 | 925 | 927 | 928 | 928 | 927 | 923 | 920 | 920 | 921 | 921 | 922 | 922 | 921 | 922 | 920 | 921 | 922 | 922 | 921 | 922 | 922 | | |
| Sum 28,000y+ | 562 | 512 | 554 | 577 | 661 | 722 | 763 | 762 | 721 | 619 | 520 | 516 | 541 | 576 | 498 | 506 | 501 | 500 | 526 | 525 | 549 | 585 | 575 | 552 | | Grand Total 685,923 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

20 ESKDALEMUIR (D)

9° +

JANUARY 1966

| | Hour | GMT | 9° + | | | | | | | | | | | | | | | | | | | | | | | Sum |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 1300·0' |
| 1 q | 58·4 | 58·8 | 58·6 | 58·7 | 59·3 | 58·0 | 58·0 | 58·0 | 58·7 | 59·1 | 59·6 | 59·6 | 59·8 | 59·6 | 58·9 | 58·6 | 58·5 | 58·6 | 58·5 | 58·7 | 58·5 | 58·5 | 58·3 | 58·6 | 58·8 | 110·6 |
| 2 | 58·7 | 58·8 | 62·4 | 58·4 | 57·4 | 58·0 | 58·1 | 57·9 | 58·3 | 58·8 | 59·7 | 60·8 | 62·3 | 61·8 | 61·2 | 61·1 | 58·4 | 58·4 | 58·6 | 58·8 | 53·9 | 55·3 | 57·6 | 57·0 | 58·8 | 111·7 |
| 3 | 57·3 | 58·3 | 56·7 | 56·4 | 56·5 | 56·9 | 58·0 | 58·1 | 58·1 | 58·8 | 59·4 | 59·4 | 60·1 | 60·8 | 60·1 | 60·1 | 59·6 | 59·5 | 59·5 | 59·5 | 57·4 | 57·4 | 57·1 | 56·8 | 57·4 | 97·5 |
| 4 | 58·0 | 58·1 | 58·2 | 58·7 | 58·0 | 57·9 | 58·2 | 58·4 | 58·3 | 58·9 | 59·3 | 59·4 | 60·1 | 60·3 | 60·7 | 60·7 | 62·4 | 59·5 | 59·5 | 59·5 | 57·4 | 57·4 | 57·1 | 56·8 | 57·4 | 109·6 |
| 5 | 57·4 | 57·4 | 57·7 | 58·5 | 58·5 | 58·5 | 58·2 | 58·0 | 57·8 | 57·9 | 57·9 | 57·9 | 59·7 | 59·7 | 59·1 | 59·1 | 59·1 | 59·1 | 59·1 | 59·1 | 59·1 | 59·1 | 59·1 | 59·1 | 59·7·8 | |
| 6 | 58·7 | 58·3 | 58·4 | 58·5 | 58·6 | 58·4 | 58·0 | 58·0 | 57·8 | 57·7 | 57·9 | 58·7 | 59·9 | 59·8 | 59·6 | 59·5 | 59·5 | 59·6 | 59·7 | 59·7 | 59·7 | 59·7 | 59·7 | 59·7 | 59·7 | 101·7 |
| 7 | 57·5 | 58·4 | 58·3 | 58·0 | 57·9 | 57·7 | 57·8 | 58·0 | 57·9 | 57·9 | 59·3 | 60 | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

JANUARY 1966

| | Hour | GMT | 45,000γ (0.45 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 10,000γ+ |
|-----------------|------|-----|---------------------------|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------------|------------------------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000γ+ | |
| 1 q | 449 | 448 | 448 | 449 | 448 | 448 | 448 | 449 | 449 | 449 | 451 | 452 | 450 | 451 | 452 | 451 | 451 | 451 | 449 | 450 | 449 | 449 | 448 | 447 | 449 | 449 | 786 |
| 2 | 448 | 448 | 438 | 441 | 442 | 442 | 442 | 443 | 445 | 443 | 445 | 444 | 443 | 448 | 448 | 449 | 453 | 453 | 452 | 451 | 457 | 452 | 448 | 449 | 447 | 447 | 724 |
| 3 | 449 | 442 | 444 | 444 | 446 | 446 | 447 | 448 | 448 | 449 | 450 | 447 | 448 | 450 | 453 | 453 | 456 | 456 | 456 | 457 | 455 | 450 | 450 | 451 | 451 | 798 | |
| 4 | 454 | 453 | 449 | 448 | 448 | 448 | 448 | 447 | 446 | 446 | 445 | 445 | 444 | 445 | 448 | 448 | 449 | 452 | 452 | 466 | 468 | 460 | 459 | 456 | 451 | 451 | 827 |
| 5 | 449 | 448 | 450 | 450 | 449 | 449 | 449 | 449 | 449 | 449 | 449 | 453 | 454 | 454 | 454 | 454 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 453 | 451 | 451 | 826 |
| 6 | 450 | 450 | 450 | 449 | 448 | 448 | 448 | 448 | 448 | 448 | 449 | 449 | 449 | 448 | 449 | 449 | 451 | 450 | 449 | 449 | 449 | 452 | 452 | 453 | 449 | 449 | 785 |
| 7 | 453 | 451 | 450 | 448 | 447 | 446 | 445 | 445 | 446 | 446 | 446 | 447 | 449 | 452 | 450 | 449 | 448 | 453 | 460 | 465 | 465 | 463 | 451 | 451 | 451 | 451 | 818 |
| 8 | 459 | 458 | 457 | 459 | 454 | 450 | 448 | 448 | 447 | 445 | 443 | 443 | 443 | 446 | 449 | 454 | 454 | 453 | 453 | 454 | 456 | 458 | 459 | 452 | 452 | 844 | |
| 9 | 455 | 453 | 450 | 449 | 449 | 448 | 448 | 448 | 447 | 446 | 444 | 443 | 443 | 446 | 449 | 452 | 454 | 459 | 461 | 459 | 460 | 456 | 451 | 451 | 451 | 451 | 815 |
| 10 | 454 | 455 | 454 | 453 | 449 | 452 | 450 | 450 | 449 | 449 | 449 | 448 | 448 | 450 | 452 | 453 | 456 | 457 | 457 | 454 | 454 | 454 | 452 | 452 | 452 | 452 | 850 |
| 11 | 448 | 448 | 448 | 449 | 452 | 451 | 449 | 449 | 448 | 446 | 445 | 446 | 446 | 448 | 452 | 454 | 453 | 452 | 451 | 450 | 450 | 450 | 448 | 449 | 449 | 449 | 788 |
| 12 q | 449 | 448 | 449 | 449 | 449 | 449 | 449 | 448 | 447 | 446 | 446 | 446 | 446 | 448 | 448 | 450 | 450 | 450 | 449 | 449 | 449 | 448 | 448 | 448 | 448 | 448 | 761 |
| 13 q | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 447 | 447 | 445 | 441 | 439 | 443 | 447 | 448 | 449 | 449 | 449 | 449 | 451 | 449 | 449 | 447 | 447 | 447 | 447 | 738 |
| 14 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 446 | 446 | 443 | 442 | 441 | 441 | 440 | 443 | 448 | 449 | 449 | 449 | 450 | 449 | 449 | 448 | 448 | 448 | 448 | 720 |
| 15 | 448 | 448 | 446 | 445 | 445 | 445 | 445 | 447 | 448 | 446 | 447 | 446 | 446 | 445 | 448 | 449 | 448 | 448 | 449 | 450 | 450 | 449 | 448 | 447 | 447 | 447 | 835 |
| 16 q | 448 | 448 | 447 | 447 | 447 | 447 | 447 | 448 | 448 | 447 | 446 | 446 | 445 | 443 | 443 | 445 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 447 | 731 |
| 17 | 448 | 448 | 447 | 445 | 447 | 447 | 447 | 448 | 448 | 446 | 446 | 445 | 447 | 444 | 448 | 449 | 448 | 448 | 448 | 448 | 448 | 447 | 447 | 447 | 447 | 447 | 733 |
| 18 | 445 | 443 | 443 | 442 | 442 | 442 | 443 | 443 | 442 | 441 | 439 | 438 | 439 | 441 | 443 | 447 | 449 | 454 | 461 | 472 | 469 | 460 | 454 | 453 | 448 | 448 | 745 |
| 19 | 450 | 449 | 448 | 448 | 448 | 447 | 447 | 446 | 445 | 443 | 442 | 442 | 441 | 445 | 449 | 453 | 452 | 451 | 449 | 448 | 448 | 448 | 448 | 447 | 447 | 447 | 735 |
| 20 d | 448 | 448 | 444 | 443 | 442 | 442 | 443 | 442 | 442 | 442 | 442 | 442 | 441 | 448 | 459 | 461 | 464 | 482 | 477 | 478 | 479 | 461 | 456 | 454 | 453 | 453 | 882 |
| 21 d | 443 | 445 | 443 | 443 | 442 | 443 | 446 | 443 | 441 | 439 | 440 | 443 | 443 | 447 | 463 | 467 | 465 | 472 | 479 | 472 | 462 | 460 | 453 | 448 | 452 | 452 | 842 |
| 22 d | 453 | 450 | 454 | 454 | 453 | 450 | 441 | 434 | 439 | 442 | 446 | 448 | 448 | 453 | 479 | 467 | 468 | 465 | 464 | 461 | 449 | 444 | 443 | 453 | 453 | 453 | 872 |
| 23 d | 442 | 440 | 436 | 444 | 447 | 446 | 446 | 447 | 445 | 445 | 447 | 448 | 452 | 458 | 461 | 466 | 461 | 458 | 459 | 463 | 458 | 458 | 454 | 451 | 451 | 451 | 832 |
| 24 d | 451 | 450 | 451 | 451 | 449 | 448 | 445 | 446 | 446 | 449 | 448 | 448 | 447 | 450 | 455 | 460 | 470 | 473 | 460 | 458 | 458 | 455 | 453 | 453 | 453 | 453 | 877 |
| 25 | 452 | 452 | 448 | 449 | 449 | 448 | 448 | 448 | 448 | 448 | 448 | 452 | 455 | 460 | 468 | 466 | 468 | 460 | 464 | 459 | 455 | 453 | 452 | 454 | 454 | 454 | 888 |
| 26 | 451 | 451 | 450 | 450 | 449 | 448 | 447 | 446 | 447 | 450 | 452 | 453 | 453 | 458 | 458 | 458 | 463 | 471 | 466 | 462 | 462 | 464 | 458 | 442 | 454 | 454 | 899 |
| 27 | 447 | 448 | 449 | 449 | 447 | 451 | 451 | 452 | 453 | 453 | 452 | 455 | 457 | 457 | 458 | 457 | 455 | 455 | 453 | 453 | 452 | 452 | 452 | 452 | 452 | 457 | 857 |
| 28 | 452 | 452 | 452 | 451 | 451 | 451 | 452 | 451 | 449 | 448 | 447 | 448 | 444 | 443 | 447 | 449 | 451 | 450 | 451 | 449 | 447 | 447 | 449 | 449 | 449 | 449 | 780 |
| 29 | 448 | 447 | 447 | 447 | 446 | 446 | 446 | 446 | 442 | 442 | 445 | 447 | 447 | 447 | 448 | 453 | 453 | 458 | 458 | 454 | 453 | 451 | 449 | 448 | 449 | 769 | |
| 30 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 447 | 445 | 444 | 442 | 441 | 442 | 449 | 453 | 457 | 454 | 453 | 452 | 451 | 451 | 449 | 448 | 448 | 448 | 761 | |
| 31 q | 452 | 452 | 451 | 450 | 449 | 449 | 451 | 451 | 450 | 450 | 451 | 452 | 448 | 448 | 452 | 452 | 452 | 452 | 451 | 451 | 451 | 451 | 449 | 451 | 451 | 451 | 817 |
| Mean | 450 | 449 | 448 | 448 | 448 | 447 | 447 | 447 | 447 | 446 | 446 | 446 | 446 | 446 | 448 | 452 | 454 | 455 | 456 | 455 | 453 | 452 | 450 | 450 | 450 | 450 | |
| Sum 13,000γ+ | 939 | 917 | 886 | 892 | 878 | 872 | 857 | 854 | 843 | 831 | 823 | 828 | 834 | 888 | 1014 | 1077 | 1098 | 1124 | 1113 | 1128 | 1122 | 1056 | 999 | 962 | | | Grand Total 334,835 |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| | 3-h range indices | Sum of K indices | 3-h range indices | Sum of K _H indices | 3-h range indices | Sum of K _D indices | 3-h range indices | Sum of K _D indices | 3-h range indices | Sum of K _Z indices | 3-h range indices | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph chamber, °C |
|------|-------------------|------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|---------------------------------------|---|
| 1 q | 0100 0011 | 3 | 0100 0011 | 3 | 0100 0010 | 2 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·9 |
| 2 | 3211 1133 | 15 | 3211 1123 | 14 | 3101 1133 | 13 | 1000 0010 | 2 | 1 | 1 | 1 | 1 | 1 | 12·9 |
| 3 | 3101 1222 | 12 | 3101 1222 | 12 | 3100 1111 | 8 | 1000 0000 | 1 | 1 | 1 | 1 | 1 | 1 | 12·9 |
| 4 | 1111 0353 | 15 | 0111 0343 | 13 | 1110 0252 | 12 | 0000 0130 | 4 | 1 | 1 | 1 | 1 | 1 | 12·8 |
| 5 | 2000 0102 | 5 | 1000 0101 | 3 | 2000 0002 | 4 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·8 |
| 6 | 2000 0002 | 4 | 2000 0002 | 4 | 1000 0002 | 3 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·8 |
| 7 | 1101 0233 | 11 | 1101 0233 | 11 | 1100 0113 | 7 | 0000 0011 | 2 | 1 | 1 | 1 | 1 | 1 | 12·8 |
| 8 | 3221 2212 | 15 | 2221 2212 | 14 | 3111 1112 | 11 | 0000 1000 | 1 | 1 | 1 | 1 | 1 | 1 | 12·7 |
| 9 | 3000 1325 | 14 | 3000 1325 | 14 | 3000 0223 | 10 | 0000 0102 | 4 | 1 | 1 | 1 | 1 | 1 | 12·7 |
| 10 | 1221 1232 | 14 | 1221 1222 | 13 | 1211 1131 | 11 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·7 |
| 11 | 2000 0101 | 4 | 2000 0101 | 4 | 2000 0001 | 2 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·7 |
| 12 q | 1100 0010 | 3 | 1100 0010 | 3 | 0100 0000 | 1 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·7 |
| 13 q | 0011 0010 | 3 | 0011 0010 | 2 | 0000 0010 | 2 | 0000 0000 | 0 | 0 | 0 | 0 | 0 | 0 | 12·7</ |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

FEBRUARY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-----------------|
| 1 q | | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 927 | 1252 |
| 2 | 926 | 932 | 929 | 924 | 925 | 928 | 933 | 933 | 932 | 931 | 926 | 921 | 920 | 921 | 925 | 927 | 928 | 927 | 927 | 927 | 927 | 925 | 927 | 928 | 930 | 927 | 929 | |
| 3 | 931 | 929 | 931 | 932 | 932 | 933 | 935 | 932 | 932 | 932 | 934 | 932 | 932 | 924 | 924 | 923 | 923 | 925 | 924 | 924 | 927 | 927 | 927 | 929 | 932 | 931 | 929 | 1305 |
| 4 | 929 | 928 | 929 | 931 | 932 | 929 | 925 | 931 | 932 | 933 | 930 | 923 | 924 | 917 | 905 | 919 | 926 | 928 | 909 | 914 | 907 | 926 | 912 | 914 | 923 | 923 | 1153 | |
| 5 d | 921 | 928 | 922 | 925 | 924 | 927 | 932 | 925 | 916 | 917 | 914 | 910 | 912 | 912 | 916 | 909 | 926 | 927 | 923 | 921 | 932 | 925 | 916 | 924 | 921 | 921 | 1104 | |
| 6 | 919 | 911 | 925 | 914 | 912 | 917 | 931 | 926 | 926 | 908 | 910 | 917 | 901 | 921 | 924 | 920 | 906 | 910 | 912 | 913 | 917 | 916 | 917 | 912 | 916 | 916 | 985 | |
| 7 | 917 | 916 | 917 | 923 | 926 | 919 | 914 | 913 | 920 | 918 | 913 | 912 | 906 | 910 | 916 | 921 | 924 | 924 | 922 | 925 | 926 | 928 | 921 | 916 | 919 | 919 | 1047 | |
| 8 | 916 | 922 | 917 | 919 | 920 | 923 | 925 | 927 | 929 | 930 | 924 | 925 | 924 | 924 | 923 | 925 | 925 | 925 | 925 | 925 | 923 | 923 | 924 | 924 | 924 | 924 | 1167 | |
| 9 q | 923 | 925 | 923 | 921 | 923 | 924 | 925 | 926 | 928 | 927 | 924 | 924 | 926 | 927 | 917 | 916 | 914 | 918 | 924 | 924 | 924 | 924 | 925 | 923 | 923 | 923 | 1154 | |
| 10 | 924 | 921 | 922 | 925 | 927 | 927 | 928 | 928 | 926 | 925 | 924 | 925 | 925 | 929 | 933 | 932 | 928 | 929 | 929 | 933 | 931 | 930 | 925 | 925 | 927 | 927 | 1249 | |
| 11 | 921 | 926 | 924 | 925 | 928 | 929 | 931 | 932 | 927 | 929 | 921 | 925 | 928 | 933 | 939 | 937 | 934 | 928 | 924 | 924 | 920 | 917 | 919 | 926 | 926 | 926 | 1230 | |
| 12 | 924 | 919 | 924 | 921 | 925 | 928 | 932 | 933 | 933 | 927 | 923 | 919 | 919 | 920 | 922 | 924 | 925 | 924 | 925 | 927 | 926 | 925 | 925 | 924 | 922 | 922 | 1134 | |
| 13 | 922 | 923 | 920 | 926 | 922 | 925 | 928 | 932 | 930 | 923 | 918 | 917 | 920 | 929 | 931 | 924 | 924 | 930 | 927 | 925 | 927 | 928 | 926 | 925 | 925 | 925 | 1198 | |
| 14 q | 926 | 927 | 927 | 929 | 929 | 929 | 928 | 929 | 927 | 923 | 921 | 922 | 926 | 929 | 933 | 931 | 925 | 919 | 923 | 927 | 928 | 928 | 928 | 927 | 927 | 927 | 1242 | |
| 15 | 927 | 928 | 929 | 929 | 932 | 931 | 931 | 929 | 926 | 928 | 932 | 934 | 930 | 927 | 930 | 929 | 933 | 934 | 934 | 924 | 923 | 921 | 929 | 929 | 929 | 929 | 1302 | |
| 16 | 933 | 938 | 932 | 925 | 929 | 936 | 930 | 930 | 926 | 918 | 913 | 910 | 914 | 920 | 924 | 932 | 929 | 928 | 928 | 926 | 928 | 937 | 932 | 927 | 927 | 927 | 1247 | |
| 17 | 930 | 929 | 929 | 930 | 932 | 936 | 939 | 940 | 936 | 936 | 932 | 928 | 927 | 923 | 916 | 925 | 926 | 924 | 925 | 925 | 927 | 929 | 928 | 927 | 930 | 929 | 1301 | |
| 18 | 929 | 925 | 928 | 929 | 932 | 936 | 936 | 932 | 924 | 914 | 914 | 914 | 920 | 924 | 926 | 925 | 927 | 928 | 931 | 932 | 932 | 932 | 929 | 928 | 928 | 928 | 1273 | |
| 19 d | 933 | 929 | 929 | 932 | 935 | 935 | 931 | 936 | 932 | 920 | 924 | 925 | 925 | 920 | 917 | 912 | 901 | 913 | 907 | 910 | 902 | 909 | 917 | 922 | 922 | 922 | 1133 | |
| 20 d | 920 | 929 | 916 | 913 | 920 | 915 | 922 | 933 | 921 | 890 | 894 | 892 | 882 | 884 | 900 | 909 | 913 | 918 | 921 | 921 | 918 | 921 | 921 | 920 | 912 | 912 | 893 | |
| 21 | 920 | 917 | 917 | 919 | 919 | 920 | 921 | 915 | 912 | 914 | 913 | 914 | 917 | 918 | 919 | 917 | 921 | 924 | 924 | 924 | 925 | 924 | 919 | 919 | 919 | 919 | 1057 | |
| 22 | 926 | 924 | 926 | 928 | 930 | 928 | 928 | 926 | 921 | 923 | 917 | 911 | 898 | 898 | 919 | 907 | 903 | 917 | 896 | 892 | 901 | 908 | 925 | 916 | 916 | 916 | 980 | |
| 23 d | 921 | 924 | 922 | 922 | 918 | 947 | 923 | 887 | 895 | 876 | 899 | 903 | 908 | 906 | 911 | 903 | 919 | 916 | 918 | 943 | 903 | 913 | 914 | 912 | 894 | 894 | 894 | |
| 24 d | 917 | 919 | 917 | 924 | 934 | 918 | 921 | 912 | 922 | 916 | 906 | 894 | 893 | 911 | 914 | 912 | 913 | 911 | 918 | 937 | 925 | 918 | 922 | 923 | 917 | 917 | 997 | |
| 25 | 925 | 921 | 930 | 925 | 925 | 923 | 926 | 928 | 927 | 924 | 919 | 914 | 908 | 909 | 919 | 924 | 919 | 921 | 925 | 928 | 930 | 943 | 925 | 924 | 924 | 924 | 1166 | |
| 26 q | 924 | 923 | 923 | 925 | 927 | 928 | 929 | 929 | 927 | 923 | 920 | 917 | 914 | 917 | 919 | 919 | 921 | 921 | 925 | 926 | 928 | 928 | 926 | 923 | 923 | 923 | 1164 | |
| 27 | 927 | 926 | 927 | 927 | 929 | 927 | 932 | 929 | 925 | 919 | 917 | 917 | 917 | 916 | 916 | 918 | 921 | 924 | 926 | 928 | 930 | 929 | 928 | 925 | 925 | 925 | 1197 | |
| 28 q | 929 | 928 | 929 | 928 | 930 | 931 | 931 | 930 | 925 | 920 | 918 | 916 | 916 | 916 | 919 | 925 | 929 | 930 | 930 | 932 | 933 | 932 | 933 | 927 | 927 | 927 | 1256 | |
| Mean | 924 | 924 | 924 | 925 | 927 | 928 | 928 | 927 | 926 | 921 | 918 | 917 | 917 | 919 | 920 | 922 | 922 | 924 | 924 | 924 | 923 | 923 | 924 | 923 | 923 | 923 | | |
| Sum 25,000γ+ | 872 | 880 | 880 | 889 | 945 | 977 | 990 | 964 | 926 | 779 | 714 | 686 | 666 | 720 | 758 | 817 | 805 | 822 | 860 | 864 | 876 | 839 | 848 | 865 | | | Grand Total 620,242 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

20 ESKDALEMUIR (D)

9° +

FEBRUARY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1300'0' |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| 1 q | | | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | |
| 2 | 58·1 | 58·3 | 57·2 | 57·0 | 57·6 | 58·1 | 57·5 | 57·2 | 58·7 | 58·2 | 58·3 | 59·0 | 60·8 | 62·0 | 60·8 | 60·0 | 59·7 | 59·3 | 58·9 | 58·9 | 58·8 | 58·5 | 57·9 | 57·8 | 57·8 | 58·6 | 107·5 | |
| 3 | 58·0 | 58·5 | 58·4 | 58·7 | 58·6 | 58·0 | 57·9 | 57·8 | 58·2 | 58·8 | 58·8 | 59·6 | 60·3 | 61·7 | 60·9 | 59·9 | 60·0 | 59·6 | 57·9 | 58·9 | 58·8 | 58·1 | 57·8 | 57·9 | 58·9 | 58·9 | 113·1 | |
| 4 | 58·2 | 58·4 | 58·6 | 58·8 | 58·7 | 57·8 | 59·0 | 59·3 | 58·7 | 58·9 | 59·3 | 59·3 | 60·2 | 62·2 | 61·7 | 60·8 | 59·9 | 60·2 | 57·3 | 57·3 | 55·0 | 51·2 | 51·1 | 55·3 | 57·1 | 58·1 | 95·5 | |
| 5 d | 55·6 | 56·8 | 58·8 | 58·2 | 56·4 | 57·7 | 57·1 | 57·7 | 58·2 | 58·4 | 58·5 | 58·7 | 60·8 | 60·0 | 59·8 | 60·0 | 59·8 | 60·8 | 61·4 | 61·4 | 61·4 | 61·4 | 61·4 | 55·3 | 57·1 | 58·6 | 58·6 | |
| 6 | 55·8 | 55·0 | 57·7 | 59·8 | 55·9 | 56·6 | 56·7 | 56·7 | 57·1 | 58·1 | 58·9 | 59·8 | 61·4 | 61·4 | 61·3 | 59·8 | 58·9 | 59·0 | 59·0 | 58·7 | 58·7 | 58·6 | 58·5 | 58·5 | 58·4 | 58·4 | 88·4 | |
| 7 | 56·9 | 55·6 | 55·8 | 57·4 | 57·2 | 57·9 | 57·6 | 57·8 | 58·7 | 58·9 | 58·6 | 59·1 | 60·1 | 60·6 | 59·8 | 59·0 | 58·5 | 58·2 | 58·1 | 58·1 | 58·1 | 58·1 | 58·0 | 58·0 | 58·1 | 58·1 | 94·4 | |
| 8 | 57·8 | 57·8 | 57·8 | 57·8 | 57·6 | 57·7 | 57·7 | 57·8 | 57·9 | 57·9 | 57·8 | 58·3 | 60·0 | 61·5 | 60·7 | 60·4 | 61·7 | 60·8 | 59·6 | 59·0 | 57·8 | 57·8 | 57·7 | 58·6 | 58·6 | 58·6 | 107·4 | |
| 9 q | 57·2 | 57·1 | 57·7 | 57·8 | 57·4 | 57·2 | 57·5 | 57·5 | 57·8 | 58·2 | 58·2 | 58·9 | 60·5 | 60·2 | 60·8 | 59·8 | 59·5 | 58·1 | 58·1 | 57·8 | 57·7 | 57·7 | 57·7 | 58·6 | 58·6 | 105·8 | | |
| 10 | 57·1 | 55·1 | 55·8 | 56·6 | 56·2 | 57·5 | 57·8 | 57·8 | 57·9 | 58·0 | 58·2 | 59·3 | 60·1 | 60·1 | 60·8 | 59·0 | 59·0 | 59·0 | 59·0 | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

51

21 ESKDALEMUIR (Z)

45,000y (0.45 CGS unit) +

FEBRUARY 1966

| | Hour | GMT | 45,000y (0.45 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum 10,000y+ |
|-----------------|------|-----|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-----------------|
| | | | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | |
| 1 q | 449 | 447 | 445 | 445 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 441 | 445 | 448 | 449 | 449 | 449 | 450 | 451 | 451 | 449 | 448 | 447 | 734 | |
| 2 | 448 | 447 | 447 | 447 | 446 | 446 | 445 | 444 | 442 | 442 | 442 | 441 | 441 | 441 | 444 | 447 | 447 | 447 | 448 | 448 | 451 | 448 | 448 | 448 | 446 | 446 | 710 | |
| 3 | 448 | 448 | 447 | 447 | 446 | 447 | 445 | 444 | 444 | 446 | 446 | 447 | 447 | 449 | 445 | 448 | 453 | 452 | 452 | 460 | 465 | 473 | 460 | 454 | 453 | 451 | 826 | |
| 4 | 453 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 447 | 449 | 453 | 452 | 453 | 459 | 458 | 453 | 454 | 455 | 446 | 447 | 440 | 450 | 796 | |
| 5 d | 440 | 445 | 444 | 447 | 447 | 446 | 442 | 442 | 441 | 444 | 445 | 444 | 449 | 451 | 456 | 461 | 466 | 468 | 471 | 472 | 473 | 467 | 460 | 459 | 453 | 453 | 880 | |
| 6 | 455 | 453 | 453 | 447 | 441 | 444 | 447 | 448 | 448 | 447 | 447 | 447 | 450 | 455 | 458 | 457 | 455 | 454 | 453 | 453 | 452 | 452 | 452 | 450 | 451 | 451 | 818 | |
| 7 | 453 | 452 | 453 | 452 | 451 | 449 | 447 | 444 | 442 | 444 | 447 | 447 | 445 | 446 | 452 | 453 | 453 | 452 | 451 | 451 | 450 | 450 | 451 | 450 | 450 | 450 | 789 | |
| 8 | 451 | 451 | 452 | 452 | 451 | 450 | 447 | 447 | 447 | 448 | 447 | 448 | 441 | 444 | 453 | 458 | 457 | 456 | 456 | 455 | 455 | 454 | 453 | 452 | 451 | 451 | 829 | |
| 9 q | 453 | 453 | 452 | 452 | 451 | 450 | 448 | 447 | 447 | 446 | 446 | 444 | 444 | 444 | 447 | 451 | 451 | 451 | 449 | 450 | 450 | 452 | 452 | 450 | 450 | 450 | 790 | |
| 10 | 454 | 453 | 453 | 453 | 452 | 449 | 448 | 447 | 448 | 447 | 447 | 447 | 444 | 445 | 447 | 449 | 452 | 453 | 457 | 463 | 464 | 466 | 461 | 455 | 452 | 454 | 854 | |
| 11 | 448 | 445 | 441 | 446 | 447 | 447 | 447 | 447 | 445 | 444 | 445 | 443 | 443 | 445 | 453 | 453 | 453 | 453 | 453 | 453 | 457 | 459 | 451 | 449 | 449 | 449 | 769 | |
| 12 | 443 | 442 | 447 | 448 | 447 | 446 | 447 | 448 | 446 | 441 | 441 | 440 | 439 | 441 | 446 | 448 | 449 | 451 | 452 | 452 | 452 | 451 | 449 | 447 | 447 | 447 | 718 | |
| 13 | 449 | 447 | 445 | 441 | 444 | 447 | 446 | 447 | 445 | 444 | 443 | 442 | 442 | 442 | 447 | 452 | 456 | 455 | 453 | 453 | 451 | 449 | 449 | 448 | 448 | 448 | 741 | |
| 14 q | 449 | 448 | 448 | 448 | 449 | 449 | 448 | 448 | 447 | 444 | 444 | 444 | 445 | 446 | 447 | 449 | 449 | 452 | 452 | 451 | 450 | 450 | 449 | 448 | 448 | 448 | 757 | |
| 15 | 450 | 449 | 448 | 448 | 447 | 448 | 448 | 448 | 445 | 442 | 441 | 441 | 441 | 442 | 445 | 447 | 448 | 449 | 449 | 453 | 456 | 453 | 451 | 448 | 448 | 448 | 745 | |
| 16 | 448 | 444 | 444 | 444 | 445 | 446 | 447 | 448 | 448 | 446 | 444 | 444 | 442 | 444 | 448 | 449 | 448 | 448 | 448 | 448 | 451 | 451 | 449 | 447 | 447 | 447 | 721 | |
| 17 | 447 | 447 | 447 | 447 | 447 | 446 | 445 | 445 | 445 | 442 | 440 | 441 | 441 | 446 | 449 | 449 | 449 | 451 | 452 | 452 | 449 | 447 | 447 | 447 | 447 | 447 | 720 | |
| 18 | 447 | 447 | 446 | 446 | 445 | 445 | 445 | 445 | 447 | 447 | 445 | 443 | 443 | 443 | 444 | 447 | 448 | 448 | 447 | 447 | 448 | 448 | 448 | 446 | 446 | 446 | 714 | |
| 19 d | 447 | 447 | 447 | 447 | 447 | 446 | 447 | 445 | 445 | 443 | 441 | 437 | 434 | 439 | 449 | 459 | 481 | 495 | 484 | 498 | 493 | 467 | 458 | 444 | 456 | 456 | 940 | |
| 20 d | 444 | 430 | 434 | 442 | 444 | 442 | 436 | 437 | 442 | 447 | 447 | 447 | 451 | 460 | 464 | 468 | 465 | 463 | 459 | 455 | 456 | 453 | 453 | 450 | 450 | 450 | 792 | |
| 21 | 453 | 454 | 453 | 453 | 452 | 451 | 451 | 449 | 451 | 448 | 447 | 447 | 448 | 449 | 455 | 459 | 458 | 454 | 453 | 453 | 452 | 452 | 451 | 450 | 452 | 452 | 849 | |
| 22 | 452 | 452 | 452 | 452 | 451 | 451 | 449 | 447 | 450 | 449 | 446 | 445 | 448 | 452 | 468 | 474 | 478 | 477 | 473 | 470 | 464 | 452 | 435 | 431 | 455 | 455 | 918 | |
| 23 d | 443 | 443 | 447 | 449 | 421 | 397 | 411 | 426 | 430 | 440 | 449 | 452 | 456 | 430 | 436 | 472 | 477 | 471 | 468 | 468 | 454 | 445 | 440 | 441 | 444 | 444 | 666 | |
| 24 d | 448 | 447 | 449 | 447 | 444 | 446 | 445 | 448 | 447 | 447 | 449 | 449 | 458 | 458 | 459 | 463 | 469 | 464 | 463 | 468 | 448 | 449 | 451 | 447 | 453 | 461 | 861 | |
| 25 | 442 | 444 | 436 | 442 | 444 | 447 | 446 | 447 | 445 | 441 | 439 | 440 | 445 | 449 | 452 | 455 | 457 | 461 | 460 | 456 | 454 | 453 | 447 | 444 | 448 | 448 | 746 | |
| 26 q | 447 | 448 | 449 | 450 | 451 | 451 | 450 | 448 | 447 | 447 | 445 | 447 | 447 | 448 | 450 | 453 | 453 | 453 | 453 | 453 | 452 | 451 | 451 | 450 | 450 | 450 | 799 | |
| 27 | 451 | 451 | 450 | 451 | 452 | 452 | 449 | 448 | 447 | 446 | 442 | 442 | 443 | 447 | 453 | 456 | 457 | 453 | 453 | 452 | 452 | 451 | 451 | 449 | 450 | 450 | 798 | |
| 28 q | 451 | 451 | 451 | 451 | 451 | 451 | 450 | 451 | 452 | 451 | 448 | 447 | 447 | 447 | 448 | 448 | 450 | 450 | 451 | 451 | 450 | 449 | 450 | 450 | 450 | 450 | 798 | |
| Mean | 449 | 448 | 447 | 448 | 447 | 446 | 446 | 446 | 446 | 446 | 445 | 445 | 445 | 445 | 445 | 447 | 451 | 455 | 457 | 457 | 457 | 456 | 456 | 453 | 451 | 449 | 450 | |
| Sum 12,000y+ | 563 | 532 | 528 | 541 | 509 | 485 | 477 | 477 | 478 | 478 | 478 | 460 | 450 | 469 | 506 | 630 | 738 | 783 | 786 | 777 | 787 | 761 | 684 | 620 | 559 | | Grand Total 302,078 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

22 ESKDALEMUIR

FEBRUARY 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K_H | Sum of K_H indices | 3-h range indices K_D | Sum of K_D indices | 3-h range indices K_Z | Sum of K_Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph chamber °C |
|------|----------------------------------|------------------------|--|---|--|---|--|---|--|---|
| 1 q | 2101 1000 | 5 | 2100 1000 | 4 | 1101 1000 | 4 | 0000 0000 | 0 | 0 | 12.5 |
| 2 | 0011 1112 | 7 | 0011 1112 | 7 | 0001 1110 | 4 | 0000 0000 | 0 | 0 | 12.5 |
| 3 | 1011 3243 | 15 | 1011 3243 | 15 | 0011 2143 | 12 | 0000 1021 | 4 | 1 | 12.5 |
| 4 | 2222 2244 | 20 | 2211 2234 | 17 | 2222 2243 | 19 | 1000 0011 | 3 | 1 | 12.5 |
| 5 d | 3323 3343 | 24 | 2323 3333 | 22 | 3222 1243 | 19 | 1000 1001 | 3 | 1 | 12.5 |
| 6 | 2221 2222 | 13 | 1121 2222 | 11 | 2211 1022 | 11 | 0100 1000 | 2 | 1 | 12.5 |
| 7 | 2111 0122 | 10 | 2001 0112 | 7 | 2110 0022 | 8 | 0000 0000 | 0 | 0 | 12.5 |
| 8 | 0000 2121 | 6 | 0000 2121 | 6 | 0000 1110 | 3 | 0000 1000 | 1 | 0 | 12.5 |
| 9 q | 1111 1012 | 8 | 1111 1012 | 8 | 1100 0001 | 3 | 0000 0000 | 0 | 0 | 12.5 |
| 10 | 2112 2223 | 15 | 1012 2223 | 12 | 2111 1123 | 12 | 0000 0011 | 2 | 1 | 12.5 |
| 11 | 2222 3333 | 20 | 2122 3333 | 19 | 2221 3103 | 14 | 1000 1001 | 3 | 1 | 12.5 |
| 12 | 3211 0000 | 7 | 3211 0000 | 7 | 3111 0000 | 6 | 1000 0000 | 1 | 0 | 12.5 |
| 13 | 2211 2210 | 11 | 2211 2210 | 11 | 2101 0000 | 4 | 1000 0000 | 1 | 0 | 12.5 |
| 14 q | 0001 1210 | 5 | 0001 1210 | 5 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 12.5 |
| 15 | 1001 2022 | 8 | 0001 2022 | 7 | 1000 2012 | 6 | 0000 0000 | 0 | 0 | 12.5 |
| 16 | 2210 0112 | 9 | 2210 0112 | 9 | 2110 0002 | 7 | 1000 0000 | 1 | 0 | 12.5 |
| 17 | 0001 2132 | 9 | 0001 2132 | 9 | 0001 1032 | 7 | 0000 0000 | 0 | 0 | 12.5 |
| 18 | 1111 0110 | 6 | 1111 0110 | 6 | 1100 0000 | 2 | 0000 0000 | 0 | 0 | 12.5 |
| 19 d | 2122 2453 | 21 | 2021 2433 | 17 | 2102 2352 | 16 | 0000 2332 | 10 | 1 | 12.6 |
| 20 d | 3323 3321 | 21 | 3323 3321 | 21 | 3323 2221 | 19 | 2010 1000 | 4 | 1</ | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, Gmt

19 ESKDALEMUIR (H)

$16,000\gamma$ (0.16 CGS unit) +

MARCH 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000 ^{y+} |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------|------|-----------------------------|
| 1 q | | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 1 q | 932 | 930 | 930 | 928 | 928 | 933 | 934 | 933 | 928 | 916 | 906 | 901 | 910 | 917 | 925 | 927 | 929 | 930 | 929 | 930 | 932 | 933 | 932 | 932 | 926 | 1225 | | |
| 2 q | 933 | 934 | 934 | 933 | 933 | 934 | 934 | 934 | 933 | 930 | 926 | 927 | 930 | 932 | 932 | 932 | 929 | 924 | 931 | 934 | 933 | 932 | 932 | 931 | 931 | 1355 | | |
| 3 | 929 | 937 | 932 | 929 | 930 | 934 | 938 | 939 | 939 | 928 | 912 | 920 | 936 | 932 | 929 | 930 | 930 | 929 | 926 | 928 | 922 | 928 | 919 | 906 | 928 | 1282 | | |
| 4 | 931 | 929 | 921 | 925 | 925 | 926 | 924 | 919 | 916 | 920 | 919 | 921 | 921 | 928 | 927 | 923 | 926 | 929 | 935 | 930 | 915 | 925 | 925 | 924 | 9184 | | | |
| 5 | 926 | 922 | 922 | 924 | 924 | 928 | 932 | 933 | 933 | 923 | 915 | 910 | 915 | 921 | 923 | 928 | 931 | 928 | 930 | 928 | 929 | 927 | 924 | 925 | 925 | 1199 | | |
| 6 | 930 | 925 | 925 | 928 | 932 | 932 | 934 | 930 | 925 | 913 | 910 | 913 | 914 | 915 | 921 | 925 | 926 | 927 | 931 | 931 | 929 | 926 | 926 | 933 | 925 | 1201 | | |
| 7 q | 929 | 934 | 931 | 931 | 931 | 932 | 932 | 934 | 928 | 917 | 912 | 906 | 910 | 919 | 925 | 931 | 930 | 930 | 932 | 933 | 932 | 933 | 930 | 929 | 927 | 1251 | | |
| 8 | 929 | 931 | 932 | 932 | 932 | 937 | 936 | 938 | 937 | 928 | 922 | 917 | 919 | 926 | 931 | 933 | 933 | 932 | 929 | 932 | 936 | 936 | 935 | 931 | 934 | 1349 | | |
| 9 | 933 | 933 | 933 | 933 | 933 | 934 | 935 | 936 | 933 | 929 | 921 | 915 | 917 | 916 | 917 | 924 | 928 | 929 | 934 | 938 | 941 | 932 | 917 | 920 | 928 | 1265 | | |
| 10 | 912 | 924 | 917 | 921 | 924 | 927 | 930 | 932 | 924 | 920 | 919 | 906 | 912 | 913 | 905 | 920 | 928 | 930 | 934 | 935 | 932 | 932 | 945 | 928 | 924 | 1170 | | |
| 11 | 932 | 929 | 936 | 929 | 928 | 930 | 932 | 929 | 920 | 910 | 908 | 914 | 919 | 925 | 929 | 932 | 932 | 936 | 926 | 925 | 935 | 936 | 927 | 927 | 925 | 1251 | | |
| 12 | 925 | 926 | 930 | 932 | 932 | 934 | 934 | 934 | 930 | 913 | 908 | 906 | 910 | 913 | 918 | 920 | 923 | 931 | 934 | 935 | 936 | 935 | 936 | 926 | 1230 | | | |
| 13 | 935 | 934 | 935 | 928 | 931 | 931 | 930 | 932 | 927 | 923 | 918 | 920 | 927 | 934 | 939 | 935 | 937 | 942 | 915 | 907 | 887 | 881 | 879 | 836 | 919 | 1063 | | |
| 14 d | 825 | 846 | 894 | 932 | 938 | 897 | 825 | 825 | 817 | 822 | 834 | 834 | 870 | 882 | 896 | 897 | 881 | 888 | 903 | 911 | 915 | 916 | 916 | 922 | 879 | 96 | | |
| 15 | 909 | 915 | 911 | 914 | 918 | 918 | 922 | 912 | 901 | 891 | 887 | 894 | 901 | 915 | 915 | 909 | 915 | 915 | 911 | 917 | 918 | 937 | 920 | 916 | 912 | 881 | | |
| 16 | 923 | 919 | 918 | 921 | 926 | 925 | 924 | 920 | 916 | 903 | 891 | 890 | 902 | 903 | 913 | 913 | 918 | 921 | 924 | 922 | 922 | 909 | 916 | 916 | 915 | 955 | | |
| 17 | 921 | 920 | 922 | 923 | 925 | 927 | 929 | 926 | 923 | 912 | 904 | 904 | 909 | 918 | 913 | 919 | 928 | 930 | 936 | 927 | 924 | 924 | 923 | 933 | 922 | 1120 | | |
| 18 | 917 | 913 | 918 | 924 | 924 | 925 | 927 | 927 | 925 | 922 | 908 | 900 | 907 | 913 | 920 | 924 | 925 | 926 | 930 | 933 | 935 | 933 | 935 | 938 | 923 | 1149 | | |
| 19 d | 941 | 941 | 947 | 949 | 939 | 941 | 946 | 939 | 932 | 917 | 931 | 903 | 886 | 900 | 908 | 922 | 921 | 925 | 933 | 933 | 923 | 932 | 951 | 935 | 927 | 1255 | | |
| 20 | 913 | 915 | 920 | 921 | 924 | 928 | 929 | 924 | 915 | 907 | 903 | 901 | 903 | 911 | 908 | 915 | 913 | 907 | 926 | 931 | 925 | 931 | 938 | 918 | 1039 | | | |
| 21 | 928 | 925 | 919 | 927 | 927 | 925 | 933 | 928 | 918 | 909 | 902 | 904 | 909 | 914 | 924 | 923 | 924 | 924 | 931 | 930 | 931 | 933 | 942 | 923 | 1152 | | | |
| 22 | 919 | 923 | 927 | 932 | 932 | 936 | 936 | 931 | 920 | 910 | 903 | 903 | 915 | 923 | 927 | 938 | 938 | 935 | 933 | 933 | 926 | 923 | 929 | 926 | 1225 | | | |
| 23 d | 930 | 932 | 933 | 940 | 934 | 949 | 949 | 925 | 881 | 844 | 847 | 887 | 909 | 907 | 915 | 925 | 931 | 910 | 909 | 877 | 878 | 893 | 894 | 898 | 908 | 798 | | |
| 24 q | 892 | 891 | 891 | 893 | 895 | 898 | 900 | 897 | 894 | 889 | 885 | 884 | 890 | 897 | 906 | 908 | 909 | 909 | 911 | 912 | 913 | 913 | 911 | 918 | 900 | 606 | | |
| 25 | 915 | 922 | 921 | 923 | 925 | 926 | 930 | 927 | 917 | 908 | 902 | 903 | 911 | 913 | 914 | 922 | 935 | 935 | 924 | 943 | 935 | 924 | 928 | 924 | 922 | 1127 | | |
| 26 d | 929 | 928 | 927 | 928 | 934 | 936 | 936 | 935 | 929 | 918 | 915 | 932 | 895 | 892 | 905 | 922 | 920 | 909 | 905 | 916 | 925 | 929 | 930 | 929 | 922 | 1124 | | |
| 27 | 924 | 923 | 920 | 918 | 916 | 918 | 919 | 902 | 911 | 912 | 907 | 896 | 895 | 905 | 913 | 917 | 922 | 923 | 925 | 932 | 931 | 931 | 930 | 939 | 918 | 1029 | | |
| 28 d | 935 | 928 | 920 | 920 | 921 | 921 | 910 | 919 | 911 | 887 | 858 | 856 | 869 | 869 | 888 | 907 | 927 | 899 | 903 | 878 | 890 | 880 | 904 | 912 | 901 | 631 | | |
| 29 | 920 | 944 | 913 | 892 | 911 | 921 | 920 | 911 | 901 | 898 | 898 | 893 | 893 | 906 | 909 | 919 | 922 | 924 | 926 | 927 | 926 | 915 | 949 | 919 | 1065 | | | |
| 30 | 926 | 928 | 924 | 919 | 912 | 916 | 920 | 918 | 911 | 903 | 899 | 899 | 904 | 911 | 919 | 927 | 922 | 929 | 929 | 928 | 934 | 923 | 921 | 919 | 1065 | | | |
| 31 q | 921 | 928 | 922 | 922 | 923 | 923 | 923 | 923 | 919 | 910 | 907 | 903 | 904 | 913 | 916 | 920 | 924 | 925 | 927 | 929 | 929 | 931 | 931 | 921 | 1104 | | | |
| Mean | 921 | 923 | 923 | 925 | 926 | 927 | 926 | 923 | 917 | 907 | 903 | 902 | 907 | 912 | 917 | 922 | 925 | 923 | 924 | 925 | 925 | 923 | 920 | 920 | | | | |
| Sum 27,000 ^{y+} | 1564 | 1629 | 1625 | 1671 | 1707 | 1742 | 1706 | 1618 | 1424 | 1134 | 979 | 959 | 1103 | 1281 | 1434 | 1592 | 1660 | 1616 | 1633 | 1675 | 1661 | 1624 | 1665 | 1628 | Grand Total 684,330 | | | |

GEO MAGNETIC DECLINATION (WEST)
 Mean values for periods of sixty minutes ending at exact hours. GMT

20 ESKDALEMUIR (D)

9° +

MARCH 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1300·0+' |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------|-----------------|
| 1 q | | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | 58·4 | 101·5 |
| 2 q | 57·8 | 57·8 | 57·8 | 57·5 | 57·5 | 57·4 | 56·8 | 56·9 | 56·8 | 55·8 | 56·0 | 58·0 | 60·1 | 60·8 | 61·0 | 61·2 | 60·0 | 58·8 | 58·9 | 58·6 | 59·0 | 59·0 | 58·8 | 58·6 | 58·1 | 58·4 | 109·2 | |
| 3 | 57·8 | 57·8 | 57·5 | 57·0 | 57·2 | 57·2 | 57·1 | 57·1 | 56·9 | 57·5 | 59·5 | 61·5 | 62·1 | 61·5 | 60·7 | 60·0 | 59·3 | 59·7 | 60·0 | 59·3 | 58·9 | 58·3 | 57·8 | 57·5 | 57·8 | 58·7 | 102·3 | |
| 4 | 58·0 | 55·3 | 55·6 | 54·8 | 55·3 | 55·7 | 55·4 | 55·8 | 56·2 | 57·0 | 59·0 | 61·5 | 62·6 | 62·3 | 61·5 | 60·9 | 60·5 | 60·9 | 60·0 | 59·5 | 59·0 | 52·3 | 54·0 | 55·8 | 57·9 | 88·9 | | |
| 5 | 57·1 | 56·3 | 56·0 | 55·2 | 55·2 | 56·4 | 56·0 | 56·1 | 56·0 | 56·0 | 57·4 | 59·5 | 61·7 | 62·5 | 60·9 | 59·5 | 58·0 | 57·7 | 57·8 | 57·8 | 57·2 | 56·7 | 56·9 | 57·2 | 57·5 | 81·1 | | |
| 6 | 57·3 | 57·3 | 57·5 | 57·2 | 57·2 | 57·1 | 56·7 | 56·6 | 55·8 | 56·8 | 58·7 | 60·9 | 63·0 | 63·8 | 62·8 | 60·5 | 59·1 | 58·4 | 58·1 | 57·2 | 57·4 | 56·6 | 57·1 | 57·3 | 58·3 | 100·4 | | |
| 7 q | 56·7 | 59·5 | 57·8 | 56·4 | 55·8 | 56·2 | 56·4 | 56·1 | 54·9 | 54·9 | 57·3 | 60·2 | 62·7 | 63·9 | 62·5 | 60·9 | 59·3 | 58·7 | 58·1 | 57·8 | 57·8 | 57·7 | 57·8 | 57·8 | 58·2 | 97·2 | | |
| 8 | 57·2 | 57·2 | 57·2 | 56·7 | 56·7 | 57·1 | 57·4 | 57·1 | 56·1 | 55·7 | 55·5 | 57·1 | 60·7 | 61·7 | 61·3 | 59·8 | 58·8 | 58·7 | 58·0 | 57·5 | 57·8 | 57·8 | 57·8 | 57·7 | 57·9 | 90·8 | | |
| 9 | 57·8 | 57·9 | 58·0 | 58·0 | 58·0 | 57·8 | 57·7 | 56·6 | 55·1 | 54·9 | 56·5 | 59·5 | 62·6 | 63·9 | 64·0 | 62·6 | 62·6 | 60·5 | 59·6 | 59·3 | 58·7 | 56·6 | 49·7 | 50·8 | 58·1 | 95·0 | | |
| 10 | 52·9 | 53·9 | 56·6 | 56·5 | 57·2 | 57·1 | 56·7 | 56·1 | 55·6 | 55·6 | 57·9 | 59·5 | 62·7 | 65·1 | 64·5 | 62·3 | 60·2 | 59·4 | 58·9 | 58·7 | 57·5 | 56·9 | 53·8 | 55·2 | 57·9 | 90·8 | | |
| 11 | 56·6 | 57·9 | 58·0 | 56·4 | 56·7 | 57·1 | 57·0 | 56·7 | 55·2 | 55·2 | 56·9 | 59·0 | 61·4 | 62·5 | 62·5 | 61·1 | 59·8 | 58·9 | 58·7 | 57·7 | 58·0 | 57·7 | 56·6 | 52·4 | 57·9 | 90·0 | | |
| 12 | 54·8 | 56·8 | 57·0 | 57·1 | 57·3 | 57·6 | 57·7 | 56·2 | 55·3 | 56·7 | 58·2 | 61·7 | 63·3 | 63·4 | 63·5 | 61·4 | 59·0 | 58·3 | 58·1 | 58·1 | 58·3 | 58·1 | 58·0 | 58·0 | 58·5 | 103·9 | | |
| 13 | 57·3 | 57·2 | 56·9 | 57·2 | 57·2 | 57·1 | 56·8 | 56·2 | 55·3 | 55·9 | 56·9 | 59·3 | 61·5 | 62·5 | 62·8 | 62·5 | 61·4 | 60·6 | 62·6 | 60·5 | 58·9 | 54·9 | 32·0 | 36·4 | 56·7 | 59·9 | | |
| 14 d | 33·4 | 24·0 | 26·4 | 21·8 | 44·0 | 65·2 | 62·7 | 65·2 | 67·0 | 64·4 | 61·4 | 64·0 | 64·2 | 64·4 | 57·1 | 59·8 | 59·0 | 57·9 | 58·1 | 57·6 | 57·7 | 58·2 | 57·4 | 55·9 | 54·5 | 6·8 | | |
| 15 | 55·3 | 57·3 | 56·3 | 58·9 | 57·0 | 55·9 | 55·7 | 54·2 | 54·3 | 55·8 | 58·8 | 62·2 | 62·7 | 64·4 | 63·8 | 61·2 | 59·4 | 58·0 | 57·8 | 58·0 | 58·2 | 54·8 | 55·7 | 57·2 | 58·0 | 92·9 | | |
| 16 | 61·4 | 57·4 | 56·2 | 58·1 | 58·6 | 56·3 | 56·4 | 55·4 | 54·8 | 55·6 | 58·0 | 61·4 | 63·5 | 63·5 | 63·2 | 60·8 | 58·8 | 58·0 | 57·9 | 57·8 | 57·7 | 56·7 | 57·4 | 57·1 | 58·4 | 102·2 | | |
| 17 | 57·6 | 57·4 | 53·3 | 56·7 | 56·2 | 55·7 | 55·8 | 55·7 | 54·9 | 54·3 | 57·0 | 60·4 | 63·2 | 64·2 | 62·5 | 60·5 | 59·7 | 59·3 | 59·6 | 60·2 | 59·6 | 57·6 | 55·2 | 59·6 | 58·3 | 100·4 | | |
| 18 | 55·8 | 55·7 | 57·1 | 57·4 | 57·6 | 56·9 | 56·5 | 55·4 | 54·2 | 55·0 | 56·6 | 58·8 | 61·6 | 63·2 | 62·2 | 60·6 | 58·6 | 57·8 | 57·8 | 58·4 | 58·6 | 58·6 | 58·5 | 58·3 | 58·0 | 91·2 | | |
| 19 d | 57·8 | 57·5 | 57·0 | 55·3 | 54·3 | 55·4 | 56·0 | 55·7 | 56·0 | 57·8 | 58·9 | 64·2 | 65·4 | 67·1 | 65·0 | 62·2 | 59·0 | 57·8 | 49·9 | 48·6 | 57·2 | 57·8 | 48·4 | 54·2 | 57·4 | 78·5 | | |
| 20 | 54·1 | 60·3 | 61·4 | 57·0 | 56·2 | 56·1 | 55·8 | 54·8 | 54·3 | 55·0 | 57·0 | 60·0 | 62·7 | 64·5 | 63·6 | 61·8 | 58·5 | 58·3 | 57·8 | 55·3 | 56·2 | 57·9 | 54·7 | 56·7 | 58·0 | 92·5 | | |
| 21 | 56·6 | 55·9 | 55·3 | 57·9 | 55·3 | 57·0 | 57·6 | 55·7 | 54·5 | 54·2 | 56·8 | 59·7 | 62·4 | 62·8 | 62·6 | 60·0 | 58·6 | 57·8 | 58·2 | 57·9 | 58·1 | 57·1 | 57·2 | 54·3 | 57·6 | 83·5 | | |
| 22 | 54·1 | 56·7 | 56·8 | 57·0 | 57·7 | 57·9 | 57·1 | 55·3 | 53·5 | 53·7 | 56·4 | 59·8 | 62·6 | 63·7 | 63·3 | 62·8 | 61·8 | 60·9 | 59·8 | 59·0 | 57·6 | 54·9 | 54·2 | 57·0 | 58·1 | 93·6 | | |
| 23 d | 56·9 | 57·5 | 57·8 | 57·3 | 58·2 | 57·5 | 58·9 | 59·3 | 57·8 | 65·1 | 63·2 | 67·6 | 70·0 | 65·5 | 66·2 | 70·6 | 69·4 | 66·6 | 48·1 | 52·7 | 56·8 | 53·2 | 56·2 | 56·7 | 60·4 | 149·1 | | |
| 24 q | 57·0 | 56·6 | 56·6 | 56·1 | 56·0 | 56·1 | 56·6 | 56·0 | 55·8 | 56·2 | 58·2 | 59·9 | 61·6 | 61·6 | 60·6 | 59·0 | 57·9 | 57·3 | 57·0 | 56·9 | 56·8 | 56·9 | 57·0 | 57·1 | 57·5 | 80·8 | | |
| 25 | 57·0 | 57·1 | 57·0 | 57·0 | 56·9 | 56·9 | 56·6 | 54·4 | 52·6 | 52·9 | 55·2 | 59·5 | 62·9 | 65·1 | 64·1 | 62·6 | 61·7 | 61·1 | 59·8 | 60·3 | 58·3 | 58·0 | 57·5 | 57·0 | 58·4 | 101·5 | | |
| 26 d | 57·1 | 56·9 | 57·0 | 57·0 | 57·5 | 58·7 | 57·0 | 54·0 | 54·2 | 57·0 | 62·8 | 64·9 | 66·9 | 64·4 | 62·3 | 59·9 | 57·7 | 52·2 | 55·5 | 57·9 | 58·0 | 58·0 | 57·4 | 58·3 | 99·1 | | | |
| 27 | 55·9 | 56·6 | 56·1 | 57·8 | 56·5 | 57·7 | 57·9 | 58·8 | 56·6 | 55·6 | 58·5 | 61·5 | 63·5 | 64·9 | 63·9 | 60·0 | 60·1 | 58·9 | 58·1 | 58·0 | 57·8 | 54·7 | 56·7 | 56·9 | 58·6 | 105·7 | | |
| 28 d | 56·0 | 54·1 | 54·9 | 54·9 | 55·3 | 55·6 | 57·7 | 58·0 | 57·0 | 57·1 | 59·8 | 62·5 | 66·3 | 68·9 | 69·9 | 59·1 | 62·8 | 59·7 | 57·8 | 53·4 | 46·6 | 45·5 | 54·2 | 56·9 | 57·7 | 84·0 | | |
| 29 | 58·6 | 57·8 | 53·0 | 58·8 | 56·1 | 55·3 | 58·7 | 58·6 | 56·6 | 55·0 | 56·8 | 59·7 | 61·3 | 62·3 | 62·0 | 60·8 | 59·2 | 58·7 | 57·8 | 57·6 | 57·4 | 57·5 | 57·3 | 57·0 | 58·1 | 93·9 | | |
| 30 | 56·6 | 56·3 | 55·3 | 54·4 | 54·5 | 53·9 | 53·6 | 55·9 | 54·2 | 54·4 | 56·2 | 58·3 | 61·7 | 65·4 | 63·6 | 62·4 | 59·9 | 59·0 | 58·5 | 58·6 | 57·8 | 57·2 | 56·6 | 56·9 | 57·7 | 84·2 | | |
| 31 q | 57·2 | 57·7 | 55·3 | 55·0 | 54·7 | 54·6 | 54·7 | 54·6 | 54·7 | 55·8 | 58·4 | 59·9 | 61·8 | 62·7 | 62·5 | 61·1 | 59·1 | 58·0 | 57·8 | 57·8 | 57·6 | 57·8 | 57·8 | 57·7 | 84·4 | | | |
| Mean | 56·1 | 56·0 | 55·9 | 55·7 | 56·2 | 56·9 | 57·0 | 56·5 | 55·7 | 56·2 | 58·0 | 60·8 | 62·9 | 63·7 | 62·9 | 61·3 | 59·9 | 59·1 | 57·8 | 57·6 | 57·6 | 56·6 | 55·4 | 55·8 | 58·0 | | | |
| Sum 1700·0'+ | 37·5 | 37·3 | 34·5 | 25·0 | 41·3 | 62·9 | 66·7 | 51·3 | 27·4 | 41·4 | 98·6 | 184·6 | 248·9 | 276·2 | 249·7 | 198·8 | 157·1 | 131·9 | 91·5 | 85·6 | 86·1 | 53·7 | 17·7 | 29·6 | | Grand Total 43135·3 | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 COS unit) +

MARCH 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000γ+ |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|-----------------|
| 1 q | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 777 |
| 2 q | 450 | 449 | 450 | 450 | 449 | 449 | 449 | 449 | 448 | 448 | 448 | 448 | 448 | 448 | 443 | 443 | 445 | 449 | 452 | 453 | 452 | 453 | 452 | 452 | 451 | 449 | 752 | |
| 3 | 452 | 447 | 443 | 446 | 448 | 448 | 447 | 447 | 447 | 446 | 446 | 443 | 441 | 441 | 442 | 444 | 448 | 448 | 449 | 454 | 454 | 459 | 460 | 452 | 454 | 448 | 762 | |
| 4 | 446 | 437 | 446 | 449 | 449 | 450 | 450 | 449 | 449 | 446 | 441 | 437 | 438 | 442 | 446 | 452 | 458 | 454 | 455 | 454 | 458 | 465 | 459 | 456 | 449 | 786 | | |
| 5 | 454 | 455 | 454 | 453 | 453 | 451 | 449 | 448 | 449 | 448 | 448 | 445 | 444 | 445 | 451 | 452 | 453 | 452 | 453 | 452 | 454 | 454 | 454 | 455 | 451 | 828 | | |
| 6 | 453 | 453 | 453 | 453 | 452 | 451 | 450 | 450 | 449 | 447 | 443 | 442 | 446 | 450 | 454 | 457 | 459 | 456 | 454 | 454 | 456 | 454 | 452 | 452 | 452 | 842 | | |
| 7 q | 452 | 448 | 448 | 448 | 449 | 448 | 448 | 446 | 447 | 443 | 440 | 442 | 442 | 445 | 451 | 455 | 456 | 454 | 453 | 453 | 452 | 452 | 451 | 451 | 449 | 774 | | |
| 8 | 454 | 453 | 451 | 450 | 449 | 448 | 448 | 445 | 442 | 439 | 436 | 437 | 439 | 443 | 446 | 450 | 453 | 452 | 451 | 449 | 448 | 448 | 447 | 447 | 448 | 729 | | |
| 9 | 449 | 450 | 450 | 450 | 450 | 449 | 448 | 448 | 448 | 447 | 442 | 435 | 432 | 437 | 444 | 452 | 454 | 453 | 449 | 449 | 450 | 460 | 453 | 448 | 761 | | | |
| 10 | 439 | 439 | 449 | 452 | 453 | 453 | 452 | 450 | 449 | 445 | 441 | 437 | 437 | 443 | 452 | 454 | 456 | 457 | 454 | 454 | 454 | 454 | 448 | 444 | 449 | 766 | | |
| 11 | 443 | 443 | 437 | 438 | 443 | 447 | 448 | 448 | 445 | 443 | 441 | 438 | 439 | 442 | 448 | 452 | 451 | 451 | 452 | 454 | 454 | 454 | 448 | 448 | 446 | 707 | | |
| 12 | 444 | 447 | 448 | 449 | 449 | 449 | 449 | 445 | 446 | 443 | 440 | 440 | 439 | 443 | 449 | 459 | 460 | 459 | 455 | 453 | 452 | 450 | 450 | 449 | 449 | 776 | | |
| 13 | 450 | 450 | 449 | 452 | 453 | 453 | 453 | 451 | 448 | 444 | 442 | 438 | 439 | 442 | 446 | 454 | 458 | 462 | 475 | 487 | 496 | 492 | 455 | 417 | 454 | 906 | | |
| 14 d | 416 | 418 | 400 | 367 | 333 | 329 | 348 | 390 | 425 | 448 | 472 | 499 | 504 | 495 | 515 | 517 | 511 | 495 | 477 | 471 | 468 | 465 | 465 | 461 | 445 | 689 | | |
| 15 | 460 | 457 | 458 | 456 | 453 | 456 | 461 | 465 | 465 | 459 | 452 | 448 | 443 | 445 | 451 | 458 | 462 | 467 | 469 | 467 | 467 | 461 | 459 | 459 | 458 | 998 | | |
| 16 | 452 | 453 | 455 | 455 | 451 | 452 | 454 | 457 | 454 | 451 | 449 | 451 | 454 | 453 | 455 | 461 | 461 | 461 | 461 | 464 | 464 | 463 | 456 | 456 | 453 | 953 | | |
| 17 | 461 | 460 | 456 | 455 | 455 | 455 | 455 | 457 | 454 | 451 | 447 | 442 | 440 | 444 | 450 | 454 | 456 | 455 | 457 | 461 | 466 | 467 | 466 | 451 | 455 | 915 | | |
| 18 | 449 | 454 | 455 | 455 | 455 | 455 | 455 | 455 | 453 | 449 | 449 | 446 | 445 | 449 | 455 | 460 | 461 | 460 | 458 | 455 | 455 | 455 | 455 | 454 | 483 | 893 | | |
| 19 d | 455 | 455 | 454 | 450 | 451 | 450 | 449 | 453 | 453 | 453 | 449 | 447 | 448 | 452 | 455 | 464 | 469 | 472 | 481 | 477 | 465 | 460 | 453 | 440 | 456 | 955 | | |
| 20 | 444 | 447 | 431 | 439 | 447 | 450 | 451 | 453 | 451 | 449 | 442 | 437 | 440 | 447 | 455 | 462 | 469 | 466 | 462 | 460 | 459 | 456 | 453 | 451 | 429 | 829 | | |
| 21 | 449 | 446 | 447 | 444 | 446 | 448 | 453 | 453 | 450 | 449 | 447 | 446 | 446 | 450 | 454 | 459 | 461 | 461 | 458 | 457 | 457 | 457 | 448 | 452 | 452 | 845 | | |
| 22 | 453 | 454 | 454 | 454 | 454 | 450 | 451 | 454 | 453 | 450 | 447 | 440 | 441 | 444 | 450 | 454 | 457 | 458 | 460 | 460 | 460 | 460 | 460 | 455 | 453 | 873 | | |
| 23 d | 457 | 455 | 455 | 450 | 448 | 441 | 439 | 442 | 447 | 447 | 444 | 443 | 462 | 474 | 492 | 543 | 596 | 605 | 582 | 503 | 501 | 491 | 483 | 1604 | | | | |
| 24 q | 483 | 479 | 477 | 476 | 472 | 470 | 469 | 468 | 466 | 465 | 461 | 460 | 460 | 461 | 466 | 469 | 471 | 471 | 469 | 467 | 466 | 466 | 466 | 465 | 468 | 1243 | | |
| 25 | 466 | 465 | 465 | 463 | 462 | 461 | 463 | 460 | 454 | 447 | 443 | 446 | 446 | 449 | 457 | 461 | 461 | 460 | 458 | 460 | 462 | 461 | 462 | 459 | 459 | 1008 | | |
| 31 q | 462 | 457 | 459 | 460 | 460 | 458 | 460 | 455 | 451 | 448 | 445 | 444 | 445 | 449 | 455 | 460 | 462 | 462 | 464 | 462 | 461 | 460 | 460 | 457 | 459 | | | |
| Mean | 453 | 451 | 450 | 449 | 448 | 448 | 449 | 450 | 450 | 449 | 446 | 445 | 446 | 450 | 456 | 463 | 467 | 467 | 462 | 461 | 460 | 458 | 454 | 454 | | | | |
| Sum 13,000γ+ | 1028 | 976 | 942 | 906 | 876 | 881 | 913 | 963 | 963 | 910 | 831 | 782 | 835 | 942 | 1138 | 1367 | 1470 | 1467 | 1472 | 1326 | 1280 | 1270 | 1199 | 1081 | | Grand Total 337,818 | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

22 ESKDALEMUIR

MARCH 1966

| | 3-hour range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph chamber °C |
|------|------------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|
| 1 q | 1101 1000 | 4 | 1101 1000 | 4 | 0101 0000 | 2 | 0000 0000 | 0 | 0 | 12·5 |
| 2 q | 1000 1221 | 7 | 0000 1221 | 6 | 1000 0000 | 1 | 0000 0000 | 0 | 0 | 12·5 |
| 3 | 2112 3223 | 16 | 2112 3223 | 16 | 2102 2013 | 11 | 0000 0011 | 2 | 1 | 12·5 |
| 4 | 3211 1124 | 15 | 3111 1123 | 13 | 3210 0114 | 12 | 2000 0001 | 3 | 1 | 12·5 |
| 5 | 1211 1122 | 11 | 1111 1112 | 9 | 1200 0021 | 6 | 0000 0000 | 0 | 0 | 12·5 |
| 6 | 2001 1112 | 8 | 2001 1112 | 8 | 1000 0111 | 4 | 0000 0000 | 0 | 0 | 12·5 |
| 7 q | 2001 1000 | 4 | 2001 1000 | 4 | 2000 0000 | 2 | 0000 0000 | 0 | 0 | 12·5 |
| 8 | 0121 1110 | 7 | 0121 1110 | 7 | 0121 0010 | 5 | 0000 0000 | 0 | 0 | 12·5 |
| 9 | 0002 1123 | 9 | 0002 1123 | 9 | 0001 0013 | 5 | 0000 0001 | 1 | 1 | 12·4 |
| 10 | 3112 2213 | 15 | 3112 2213 | 15 | 3112 1012 | 11 | 1000 0000 | 1 | 1 | 12·5 |
| 11 | 2200 1123 | 11 | 2100 0013 | 7 | 2100 1001 | 8 | 1000 0001 | 2 | 0 | 12·6 |
| 12 | 2011 2111 | 9 | 1011 2111 | 8 | 2011 1100 | 6 | 0000 0000 | 0 | 0 | 12·6 |
| 13 | 1010 2235 | 14 | 1010 2234 | 13 | 1000 1235 | 12 | 0000 0224 | 8 | 2 | 12·6 |
| 14 d | 5654 4432 | 33 | 5553 4432 | 31 | 4643 4312 | 27 | 3444 3310 | 22 | 2 | 12·6 |
| 15 | 2211 1323 | 15 | 1111 1323 | 13 | 2211 1212 | 12 | 0001 0201 | 4 | 1 | 12·6 |
| 16 | 3211 2112 | 13 | 1111 2112 | 10 | 3210 1001 | 8 | 1000 0000 | 1 | 0 | 12·6 |
| 17 | 1011 2223 | 12 | 1011 2223 | 12 | 1010 1013 | 7 | 0000 0012 | 3 | 0 | 12·6 |
| 18 | 1100 0011 | 4 | 1100 0011 | 4 | 1000 0000 | 1 | 1000 0000 | 1 | 0 | 12·6 |
| 19 d | 2323 3244 | 23 | 2323 3244 | 23 | 2323 2244 | 22 | 0001 1232 | 9 | 1 | 12·6 |
| 20 | 2222 2322 | 17 | 2122 2322 | 16 | 2122 2121 | 13 | 2101 1000 | 5 | 1 | 12·7 |
| 21 | 2211 2123 | 14 | 2211 2123 | 14 | 1210 1103 | 9 | 0000 0001 | 1 | 1 | 12·7 |
| 22 | 3111 1222 | 13 | 2111 1222 | 12 | 3010 1112 | 9 | 0000 0000 | 0 | 0 | 12·7 |
| 23 d | 3245 5563 | 33 | 3245 5562 | 32 | 2233 4553 | 27 | 0111 4562 | 20 | 2 | 12·6 |
| 24 q | 1000 0102 | 4 | 1000 0102 | 4 | 1000 0001 | 2 | 0000 0000 | 0 | 0 | 12·6 |
| 25 | 3113 4443 | 23 | 3113 4443 | 23 | 2112 2222 | 14 | 0000 0000 | 0 | 1 | 12·7 |
| 26 d | 2123 5432 | 22 | 2113 5432 | 21 | 1122 3332 | 17 | 0001 2221 | 8 | 1 | 12·7 |
| 27 | 2232 3332 | 20 | 2132 3332 | 19 | 2210 2212 | 12 | 1000 2101 | 5 | 1 | 12·7 |
| 28 d | 3133 4464 | 28 | 2123 4464 | 26 | 3132 2464 | 25 | 1010 2352 | 14 | 2 | 12·7 |
| 29 | 3421 1111 | 14 | 3321 1111 | 13 | 3421 0000 | 10 | 3310 0000 | 7 | 1 | 12·7 |
| 30 | 1212 3222 | 15 | 1212 3212 | 14 | 1111 2121 | 10 | 0000 0100 | 1 | 1 | 12·7 |
| 31 q | 2001 1000 | 4 | 1001 1000 | 3 | 2000 0000 | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

APRIL 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ | |
|-----------------|------|------|------|-----|-----|-----|------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-----------------|------|
| 1 d | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 923 | 1150 |
| 2 d | 929 | 930 | 929 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 928 | 923 | 923 | |
| 3 | 913 | 906 | 917 | 915 | 917 | 898 | 901 | 912 | 910 | 901 | 894 | 889 | 901 | 904 | 909 | 915 | 924 | 926 | 931 | 922 | 919 | 925 | 924 | 924 | 924 | 924 | 912 | 897 | |
| 4 | 919 | 921 | 920 | 921 | 923 | 926 | 925 | 914 | 905 | 901 | 903 | 907 | 918 | 925 | 915 | 928 | 934 | 937 | 930 | 927 | 934 | 933 | 920 | 921 | 921 | 921 | 1112 | | |
| 5 | 934 | 918 | 924 | 926 | 924 | 934 | 925 | 922 | 914 | 905 | 901 | 903 | 906 | 912 | 915 | 926 | 936 | 931 | 937 | 938 | 930 | 937 | 930 | 931 | 931 | 923 | 1159 | | |
| 6 | 931 | 928 | 927 | 930 | 931 | 935 | 932 | 932 | 917 | 905 | 897 | 898 | 905 | 912 | 915 | 924 | 929 | 934 | 932 | 932 | 932 | 930 | 934 | 924 | 924 | 924 | 1176 | | |
| 7 | 929 | 937 | 936 | 927 | 928 | 932 | 934 | 931 | 919 | 911 | 897 | 896 | 903 | 913 | 910 | 926 | 930 | 938 | 938 | 931 | 930 | 926 | 929 | 934 | 924 | 924 | 1185 | | |
| 8 | 927 | 933 | 924 | 919 | 912 | 926 | 926 | 924 | 914 | 907 | 901 | 902 | 911 | 920 | 925 | 929 | 934 | 936 | 933 | 941 | 925 | 927 | 930 | 923 | 923 | 923 | 1152 | | |
| 9 | 936 | 930 | 923 | 921 | 927 | 934 | 937 | 932 | 915 | 897 | 888 | 886 | 892 | 905 | 916 | 924 | 927 | 939 | 938 | 947 | 933 | 934 | 945 | 932 | 932 | 932 | 1158 | | |
| 10 | 933 | 928 | 931 | 935 | 932 | 931 | 930 | 929 | 923 | 917 | 905 | 898 | 903 | 901 | 919 | 922 | 930 | 934 | 935 | 936 | 934 | 934 | 935 | 925 | 925 | 1209 | | | |
| 11 q | 935 | 935 | 933 | 931 | 933 | 935 | 934 | 932 | 922 | 911 | 899 | 893 | 898 | 908 | 914 | 929 | 935 | 938 | 938 | 937 | 937 | 937 | 934 | 926 | 926 | 1235 | | | |
| 12 | 935 | 935 | 934 | 935 | 935 | 936 | 938 | 935 | 928 | 917 | 911 | 911 | 916 | 924 | 929 | 933 | 939 | 940 | 942 | 942 | 941 | 941 | 942 | 941 | 933 | 1380 | | | |
| 13 d | 942 | 935 | 936 | 932 | 940 | 953 | 949 | 945 | 935 | 920 | 907 | 901 | 887 | 883 | 918 | 913 | 929 | 934 | 916 | 907 | 900 | 890 | 912 | 920 | 1091 | | | | |
| 14 | 912 | 917 | 918 | 917 | 921 | 922 | 924 | 922 | 914 | 914 | 909 | 911 | 912 | 909 | 919 | 922 | 918 | 933 | 936 | 932 | 938 | 930 | 932 | 921 | 9114 | | | | |
| 15 | 942 | 936 | 929 | 931 | 934 | 933 | 936 | 929 | 925 | 917 | 906 | 901 | 898 | 898 | 905 | 915 | 925 | 929 | 935 | 937 | 936 | 935 | 932 | 925 | 925 | 1199 | | | |
| 16 | 933 | 934 | 932 | 932 | 935 | 937 | 935 | 931 | 923 | 913 | 906 | 903 | 903 | 911 | 923 | 926 | 929 | 938 | 941 | 944 | 947 | 948 | 943 | 942 | 930 | 1309 | | | |
| 17 | 940 | 941 | 940 | 939 | 938 | 938 | 941 | 940 | 935 | 915 | 910 | 910 | 913 | 914 | 913 | 925 | 929 | 934 | 935 | 937 | 939 | 940 | 936 | 935 | 931 | 1337 | | | |
| 18 | 934 | 933 | 936 | 934 | 933 | 934 | 936 | 931 | 924 | 916 | 908 | 902 | 906 | 910 | 921 | 925 | 934 | 935 | 938 | 938 | 940 | 938 | 939 | 928 | 928 | 1283 | | | |
| 19 q | 939 | 938 | 938 | 937 | 936 | 931 | 932 | 932 | 929 | 920 | 909 | 908 | 908 | 917 | 929 | 937 | 940 | 942 | 943 | 942 | 943 | 942 | 943 | 933 | 1380 | | | | |
| 20 | 945 | 946 | 946 | 945 | 946 | 944 | 944 | 933 | 920 | 909 | 904 | 908 | 895 | 906 | 922 | 935 | 931 | 929 | 936 | 937 | 935 | 936 | 930 | 930 | 1318 | | | | |
| 21 | 937 | 942 | 935 | 930 | 929 | 929 | 933 | 929 | 914 | 902 | 897 | 900 | 903 | 914 | 922 | 933 | 935 | 935 | 938 | 940 | 948 | 945 | 949 | 947 | 929 | 1286 | | | |
| 22 d | 962 | 940 | 937 | 939 | 942 | 946 | 954 | 949 | 924 | 912 | 909 | 906 | 905 | 914 | 909 | 916 | 927 | 944 | 947 | 938 | 941 | 939 | 935 | 936 | 932 | 1371 | | | |
| 23 | 944 | 943 | 943 | 927 | 914 | 943 | 939 | 910 | 914 | 901 | 893 | 888 | 892 | 904 | 921 | 944 | 927 | 941 | 943 | 939 | 936 | 934 | 940 | 926 | 1219 | | | | |
| 24 | 945 | 940 | 931 | 928 | 934 | 932 | 928 | 921 | 912 | 897 | 890 | 892 | 906 | 921 | 931 | 939 | 936 | 939 | 945 | 950 | 934 | 935 | 937 | 939 | 928 | 1262 | | | |
| 25 q | 936 | 935 | 936 | 935 | 935 | 934 | 933 | 928 | 915 | 906 | 902 | 903 | 910 | 921 | 935 | 939 | 941 | 943 | 940 | 941 | 939 | 938 | 934 | 930 | 934 | 1314 | | | |
| 26 q | 933 | 935 | 936 | 937 | 937 | 938 | 939 | 932 | 924 | 910 | 900 | 898 | 901 | 914 | 924 | 932 | 940 | 941 | 945 | 945 | 937 | 940 | 940 | 930 | 1315 | | | | |
| 27 q | 937 | 935 | 935 | 936 | 936 | 936 | 934 | 929 | 921 | 909 | 902 | 907 | 913 | 921 | 932 | 935 | 939 | 947 | 950 | 949 | 948 | 948 | 949 | 946 | 933 | 1394 | | | |
| 28 | 947 | 948 | 946 | 946 | 945 | 945 | 936 | 930 | 932 | 925 | 919 | 906 | 908 | 908 | 915 | 921 | 930 | 942 | 942 | 941 | 937 | 936 | 936 | 932 | 932 | 1375 | | | |
| 29 | 935 | 934 | 934 | 936 | 934 | 933 | 934 | 926 | 918 | 915 | 905 | 899 | 900 | 913 | 927 | 924 | 932 | 948 | 951 | 946 | 936 | 934 | 932 | 927 | 928 | 1273 | | | |
| 30 d | 930 | 937 | 939 | 935 | 937 | 932 | 928 | 915 | 917 | 912 | 909 | 906 | 903 | 914 | 922 | 921 | 927 | 917 | 925 | 939 | 938 | 925 | 935 | 930 | 925 | 1193 | | | |
| Mean | | 935 | 933 | 933 | 931 | 931 | 933 | 933 | 929 | 921 | 911 | 903 | 901 | 904 | 911 | 919 | 927 | 931 | 936 | 937 | 936 | 935 | 935 | 934 | 933 | 926 | | | |
| Sum 27,000γ+ | | 1049 | 1006 | 974 | 935 | 945 | 1000 | 993 | 868 | 629 | 320 | 92 | 41 | 116 | 330 | 584 | 804 | 939 | 1089 | 1121 | 1091 | 1064 | 1051 | 1009 | 995 | | Grand Total 667,045 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

20 ESKDALEMUIR (D)

9° +

APRIL 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1300·0' |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| 1 d | 57·3 | 57·0 | 56·8 | 56·4 | 56·2 | 56·4 | 56·2 | 54·5 | 54·2 | 55·5 | 55·0 | 58·0 | 61·5 | 64·6 | 69·9 | 70·9 | 69·6 | 67·7 | 67·5 | 59·8 | 59·0 | 58·0 | 40·8 | 46·2 | 46·9 | 58·4 | 100·9 | |
| 2 d | 50·9 | 52·0 | 52·4 | 48·1 | 50·2 | 53·8 | 57·0 | 55·4 | 55·0 | 55·5 | 57·9 | 59·8 | 61·3 | 61·3 | 61·8 | 61·8 | 61·0 | 59·9 | 58·7 | 57·9 | 56·1 | 56·4 | 56·8 | 57·8 | 56·4 | 56·4 | 56·4 | |
| 3 | 56·7 | 56·2 | 56·9 | 58·7 | 56·2 | 55·9 | 55·4 | 53·7 | 54·2 | 56·2 | 56·5 | 59·1 | 60·7 | 60·7 | 62·2 | 62·8 | 61·3 | 60·5 | 59·2 | 58·4 | 57·6 | 57·1 | 57·1 | 57·1 | 57·1 | 69·6 | | |
| 4 | 53·9 | 53·7 | 56·0 | 55·4 | 57·2 | 56·0 | 54·0 | 53·2 | 52·9 | 54·2 | 55·4 | 58·5 | 61·6 | 61·6 | 64·2 | 63·9 | 62·6 | 61·7 | 60·5 | 59·1 | 58·8 | 56·7 | 57·8 | 57·4 | 57·4 | 76·7 | | |
| 5 | 55·4 | 54·6 | 54·6 | 56·1 | 56·3 | 56·8 | 56·6 | 56·5 | 52·4 | 52·4 | 54·7 | 57·8 | 61·0 | 61·0 | 62·8 | 62·8 | 61·5 | 61·0 | 59·8 | 58·7 | 57·9 | 57·9 | 57·9 | 57·9 | 56·9 | 65·4 | | |
| 6 | 56·8 | 57·7 | 55·9 | 54·8 | 54·9 | 55·2 | 56·0 | 53·9 | 53·0 | 53·1 | 55·0 | 59·0 | 63·9 | 63·9 | 67·3 | 66·4 | 64·5 | 61·5 | 59·1 | 57·6 | 57·1 | 57·1 | 57·1 | 57·1 | 57·1 | 57·9 | 88·4 | |
| 7 | 56·1 | 46·6 | 48·8 | 50·9 | 52·8 | 53·3 | 53·9 | 53·1 | 52·7 | 53·1 | 54·6 | 57·8 | 61·2 | 61·2 | 62·9 | 63·4 | 61·9 | 60·5 | 59·1 | 57·6 | 57·1 | 54·5 | 54·4 | 54·4 | 54·4 | 39·9 | | |
| 8 | 54·8 | 54·0 | 53·5 | 54·7 | 55·1 | 56·8 | 55·8 | 54·5 | 53·0 | 54·1 | 55·9 | 58·2 | 62·9 | 62·9 | 65·4 | 65·3 | 64·3 | 62·4 | 61·0 | 59·1 | 58·8 | 57·3 | 57·5 | 57·5 | 57·5 | 79·9 | | |
| 9 | 56·0 | 55·9 | 56·5 | 56·7 | 56·5 | 56·0 | 55·2 | 54·3 | 53·1 | 53·8 | 55·8 | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

APRIL 1966

| | Hour | GMT | 45,000γ (0.45 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | Sum | 10,000γ+ |
|--------------|------|-----|---------------------------|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------------|----------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 10,000γ+ | |
| 1 d | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 1168 |
| 2 d | 460 | 460 | 459 | 458 | 457 | 457 | 458 | 457 | 455 | 451 | 443 | 437 | 435 | 444 | 454 | 482 | 496 | 523 | 519 | 511 | 497 | 473 | 442 | 430 | 465 | 451 | 832 |
| 3 | 439 | 451 | 427 | 427 | 437 | 443 | 442 | 447 | 449 | 449 | 450 | 449 | 447 | 449 | 454 | 459 | 461 | 464 | 466 | 467 | 467 | 464 | 463 | 461 | 451 | 939 | |
| 4 | 461 | 460 | 459 | 453 | 454 | 455 | 456 | 460 | 460 | 456 | 451 | 446 | 443 | 444 | 451 | 460 | 461 | 461 | 462 | 465 | 466 | 459 | 455 | 457 | 459 | 905 | |
| 5 | 451 | 455 | 455 | 456 | 454 | 450 | 454 | 455 | 454 | 451 | 450 | 446 | 443 | 444 | 447 | 453 | 460 | 462 | 461 | 461 | 464 | 458 | 461 | 460 | 454 | 926 | |
| 6 | 459 | 458 | 459 | 458 | 456 | 454 | 454 | 457 | 460 | 460 | 457 | 450 | 444 | 441 | 443 | 448 | 453 | 458 | 460 | 460 | 461 | 457 | 455 | 455 | 455 | 909 | |
| 7 | 457 | 455 | 449 | 449 | 453 | 453 | 454 | 455 | 456 | 454 | 450 | 447 | 440 | 439 | 447 | 455 | 459 | 462 | 465 | 463 | 462 | 461 | 459 | 457 | 452 | 838 | |
| 8 | 449 | 442 | 433 | 432 | 442 | 444 | 449 | 450 | 450 | 449 | 448 | 444 | 447 | 446 | 450 | 458 | 463 | 468 | 469 | 466 | 462 | 461 | 459 | 457 | 450 | 796 | |
| 9 | 454 | 447 | 438 | 435 | 433 | 444 | 450 | 454 | 453 | 446 | 438 | 438 | 444 | 451 | 455 | 457 | 460 | 462 | 461 | 465 | 464 | 460 | 454 | 450 | 453 | 864 | |
| 10 | 455 | 454 | 454 | 454 | 455 | 456 | 456 | 457 | 453 | 449 | 445 | 439 | 440 | 445 | 454 | 461 | 464 | 467 | 478 | 470 | 461 | 459 | 456 | 454 | 456 | 937 | |
| 11 q | 456 | 456 | 457 | 457 | 456 | 454 | 457 | 458 | 456 | 452 | 445 | 439 | 438 | 444 | 447 | 450 | 452 | 455 | 456 | 455 | 454 | 453 | 453 | 452 | 452 | 855 | |
| 12 | 454 | 454 | 454 | 454 | 454 | 454 | 454 | 456 | 454 | 450 | 448 | 445 | 431 | 437 | 446 | 453 | 456 | 459 | 458 | 456 | 455 | 454 | 454 | 451 | 451 | 826 | |
| 13 d | 453 | 454 | 454 | 454 | 452 | 446 | 447 | 446 | 445 | 442 | 439 | 435 | 436 | 447 | 464 | 479 | 489 | 500 | 516 | 508 | 493 | 481 | 475 | 465 | 463 | 1120 | |
| 14 | 456 | 448 | 448 | 449 | 452 | 453 | 455 | 458 | 459 | 452 | 449 | 443 | 442 | 443 | 453 | 458 | 464 | 468 | 471 | 471 | 466 | 466 | 464 | 459 | 456 | 947 | |
| 15 | 443 | 443 | 448 | 453 | 454 | 454 | 458 | 456 | 453 | 451 | 448 | 443 | 448 | 454 | 458 | 459 | 461 | 460 | 460 | 459 | 458 | 458 | 454 | 454 | 454 | 894 | |
| 16 | 459 | 459 | 458 | 456 | 456 | 455 | 459 | 460 | 458 | 455 | 450 | 443 | 442 | 443 | 447 | 454 | 456 | 459 | 458 | 457 | 455 | 455 | 456 | 456 | 454 | 906 | |
| 17 | 454 | 454 | 454 | 454 | 453 | 453 | 453 | 453 | 449 | 448 | 448 | 438 | 438 | 442 | 447 | 450 | 454 | 457 | 459 | 459 | 457 | 455 | 454 | 452 | 452 | 843 | |
| 18 | 458 | 456 | 454 | 454 | 454 | 453 | 453 | 453 | 450 | 449 | 445 | 438 | 434 | 433 | 437 | 443 | 449 | 453 | 454 | 453 | 454 | 453 | 454 | 454 | 449 | 788 | |
| 19 q | 455 | 454 | 454 | 454 | 454 | 454 | 453 | 453 | 450 | 448 | 445 | 443 | 438 | 438 | 441 | 445 | 447 | 451 | 454 | 454 | 454 | 454 | 454 | 454 | 450 | 794 | |
| 20 | 454 | 454 | 454 | 453 | 453 | 452 | 452 | 454 | 454 | 449 | 447 | 443 | 436 | 436 | 439 | 453 | 467 | 478 | 483 | 476 | 466 | 461 | 460 | 459 | 456 | 935 | |
| 21 | 455 | 450 | 443 | 443 | 447 | 451 | 454 | 457 | 454 | 446 | 442 | 441 | 438 | 442 | 449 | 456 | 457 | 455 | 458 | 456 | 454 | 456 | 456 | 456 | 451 | 819 | |
| 22 d | 448 | 449 | 453 | 455 | 454 | 449 | 443 | 441 | 441 | 439 | 436 | 431 | 435 | 446 | 459 | 462 | 474 | 477 | 469 | 465 | 460 | 460 | 459 | 459 | 453 | 864 | |
| 23 | 457 | 455 | 454 | 456 | 449 | 441 | 442 | 444 | 443 | 438 | 432 | 433 | 432 | 437 | 442 | 451 | 460 | 460 | 460 | 458 | 458 | 457 | 458 | 455 | 449 | 771 | |
| 24 | 452 | 449 | 449 | 454 | 455 | 459 | 458 | 457 | 452 | 447 | 443 | 442 | 438 | 442 | 448 | 454 | 459 | 464 | 465 | 461 | 456 | 454 | 453 | 453 | 471 | 871 | |
| 25 q | 453 | 454 | 454 | 455 | 456 | 456 | 459 | 456 | 454 | 453 | 450 | 447 | 439 | 437 | 440 | 446 | 457 | 459 | 462 | 462 | 460 | 456 | 456 | 454 | 453 | 878 | |
| 26 q | 457 | 456 | 456 | 456 | 456 | 456 | 456 | 456 | 454 | 451 | 444 | 437 | 431 | 431 | 437 | 442 | 448 | 453 | 454 | 454 | 458 | 456 | 454 | 452 | 451 | 812 | |
| 27 q | 454 | 454 | 454 | 454 | 456 | 456 | 454 | 454 | 452 | 447 | 440 | 435 | 434 | 436 | 438 | 443 | 448 | 450 | 454 | 454 | 453 | 452 | 450 | 450 | 449 | 772 | |
| 28 | 452 | 452 | 453 | 454 | 454 | 455 | 454 | 452 | 449 | 442 | 438 | 436 | 437 | 441 | 444 | 446 | 449 | 459 | 465 | 464 | 460 | 459 | 457 | 455 | 451 | 827 | |
| 29 | 455 | 454 | 454 | 453 | 453 | 454 | 453 | 454 | 451 | 446 | 443 | 441 | 442 | 442 | 443 | 449 | 456 | 459 | 460 | 463 | 467 | 468 | 462 | 460 | 459 | 887 | |
| 30 d | 454 | 449 | 444 | 442 | 443 | 450 | 454 | 455 | 450 | 445 | 439 | 431 | 435 | 443 | 457 | 474 | 487 | 495 | 488 | 488 | 474 | 471 | 470 | 461 | 457 | 968 | |
| Mean | 454 | 453 | 451 | 451 | 452 | 452 | 453 | 453 | 452 | 448 | 444 | 440 | 438 | 442 | 449 | 457 | 462 | 466 | 467 | 465 | 463 | 460 | 457 | 455 | 453 | | |
| Sum 13,000γ+ | 623 | 590 | 538 | 538 | 557 | 560 | 588 | 605 | 547 | 442 | 329 | 196 | 149 | 258 | 478 | 699 | 851 | 973 | 1002 | 944 | 875 | 796 | 716 | 657 | | Grand Total 326,511 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph chamber °C |
|------|---------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|
| 1 d | 0012 3435 | 18 | 0002 3335 | 16 | 0011 2334 | 14 | 0000 3434 | 14 | 1 | 12.8 |
| 2 d | 3221 1121 | 14 | 3321 1121 | 14 | 3321 0021 | 12 | 3200 0000 | 5 | 1 | 12.7 |
| 3 | 2210 2223 | 14 | 1110 2223 | 12 | 2210 1113 | 11 | 0000 1001 | 2 | 1 | 12.7 |
| 4 | 3211 2223 | 16 | 3211 2223 | 16 | 2211 1123 | 13 | 0000 0101 | 2 | 1 | 12.7 |
| 5 | 2111 1122 | 11 | 2011 1122 | 10 | 2110 0022 | 8 | 0000 0100 | 1 | 0 | 12.7 |
| 6 | 2221 2222 | 15 | 2211 2222 | 14 | 2120 1111 | 9 | 1000 0000 | 1 | 0 | 12.8 |
| 7 | 4211 1122 | 14 | 3211 1121 | 12 | 4200 0022 | 10 | 2100 0000 | 3 | 1 | 12.7 |
| 8 | 2212 2223 | 16 | 2212 2223 | 16 | 2211 1023 | 12 | 2110 0001 | 5 | 1 | 12.7 |
| 9 | 2101 2211 | 10 | 2101 2211 | 10 | 1100 0110 | 4 | 0000 0000 | 0 | 0 | 12.8 |
| 10 | 1111 1331 | 12 | 1001 1331 | 10 | 1111 0030 | 7 | 0000 0020 | 2 | 0 | 12.7 |
| 11 q | 0000 1000 | 1 | 0000 1000 | 1 | 0000 0000 | 1 | 0000 0000 | 0 | 0 | 12.7 |
| 12 | 1011 1101 | 6 | 1011 1101 | 6 | 0011 0000 | 2 | 0000 0000 | 0 | 0 | 12.8 |
| 13 d | 2323 4343 | 24 | 2313 4343 | 23 | 1221 3232 | 16 | 0000 2222 | 8 | 1 | 12.9 |
| 14 | 2112 3323 | 17 | 3112 3322 | 15 | 2101 1113 | 10 | 1000 0001 | 2 | 1 | 12.8 |
| 15 | 3120 0100 | 7 | 3110 0100 | 6 | 3020 0000 | 5 | 1000 0000 | 1 | 0 | 12.8 |
| 16 | 0000 1212 | 6 | 0000 1212 | 6 | 0000 0002 | 2 | 0000 0000 | 0 | 0 | 12.8 |
| 17 | 0111 2102 | 8 | 0111 2102 | 8 | 0010 0001 | 2 | 0000 0000 | 0 | 0 | 12.7 |
| 18 | 1100 1100 | 4 | 1100 1100 | 4 | 1100 0000 | 2 | 0000 0000 | 0 | 0 | 12.7 |
| 19 q | 1010 1100 | 4 | 1010 1100 | 4 | 0000 0000 | 0 | 0000 0000 | 0 | 0 | 12.7 |
| 20 | 0012 3212 | 11 | 0012 3211 | 10 | 0011 2102 | 7 | 0000 1010 | 2 | 1 | 12.8 |
| 21 | 2101 1122 | 10 | 1101 1122 | 9 | 2100 0002 | 5 | 1000 0000 | 1 | 0 | 12.8 |
| 22 | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 19 ESKDALEMUIR (H) | | | | | | | | | | | | | 16,000γ (0.16 CGS unit) + | | | | | | | | | | | | | MAY 1966 | |
|--------------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------------------|-----|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | γ | γ+ | |
| 1 | 930 | 934 | 929 | 929 | 924 | 912 | 925 | 922 | 911 | 901 | 903 | 903 | 906 | 914 | 919 | 916 | 935 | 935 | 946 | 942 | 930 | 930 | 938 | 934 | 924 | 1168 | |
| 2 d | 940 | 950 | 931 | 931 | 930 | 928 | 922 | 920 | 908 | 902 | 906 | 909 | 895 | 915 | 917 | 929 | 941 | 965 | 950 | 941 | 938 | 940 | 925 | 923 | 927 | 1256 | |
| 3 | 927 | 926 | 927 | 929 | 925 | 921 | 917 | 913 | 912 | 908 | 904 | 908 | 913 | 923 | 930 | 937 | 944 | 944 | 941 | 941 | 935 | 928 | 934 | 933 | 926 | 1220 | |
| 4 d | 942 | 930 | 918 | 919 | 928 | 923 | 924 | 906 | 905 | 901 | 887 | 878 | 899 | 914 | 932 | 931 | 935 | 940 | 952 | 939 | 932 | 917 | 925 | 942 | 922 | 1119 | |
| 5 | 928 | 924 | 930 | 925 | 927 | 925 | 915 | 916 | 911 | 903 | 898 | 906 | 913 | 921 | 923 | 928 | 937 | 939 | 946 | 941 | 936 | 936 | 933 | 925 | 1195 | | |
| 6 | 933 | 937 | 936 | 937 | 919 | 935 | 913 | 912 | 912 | 908 | 898 | 899 | 906 | 909 | 924 | 930 | 929 | 939 | 943 | 938 | 937 | 933 | 937 | 925 | 1201 | | |
| 7 | 937 | 932 | 932 | 931 | 929 | 926 | 923 | 917 | 908 | 902 | 905 | 912 | 915 | 924 | 932 | 937 | 942 | 947 | 945 | 943 | 934 | 934 | 928 | 926 | 1268 | | |
| 8 | 932 | 931 | 932 | 931 | 934 | 933 | 928 | 923 | 916 | 911 | 913 | 912 | 920 | 925 | 934 | 955 | 937 | 949 | 961 | 950 | 938 | 930 | 925 | 927 | 931 | 1347 | |
| 9 | 930 | 933 | 930 | 931 | 932 | 928 | 929 | 935 | 927 | 916 | 907 | 903 | 914 | 916 | 927 | 941 | 947 | 948 | 943 | 938 | 935 | 933 | 932 | 928 | 1277 | | |
| 10 q | 933 | 933 | 932 | 933 | 933 | 931 | 925 | 919 | 912 | 907 | 912 | 911 | 915 | 927 | 933 | 940 | 949 | 946 | 948 | 947 | 944 | 940 | 931 | 930 | 1350 | | |
| 11 d | 938 | 936 | 936 | 938 | 942 | 944 | 942 | 936 | 934 | 927 | 914 | 911 | 919 | 907 | 904 | 929 | 935 | 943 | 951 | 963 | 958 | 955 | 949 | 945 | 936 | 1456 | |
| 12 | 948 | 942 | 938 | 933 | 938 | 943 | 940 | 942 | 937 | 924 | 910 | 904 | 906 | 920 | 928 | 929 | 941 | 949 | 950 | 950 | 942 | 941 | 943 | 939 | 935 | 1437 | |
| 13 | 949 | 939 | 938 | 939 | 942 | 942 | 940 | 934 | 914 | 907 | 913 | 912 | 909 | 916 | 923 | 930 | 943 | 946 | 951 | 948 | 943 | 940 | 940 | 933 | 1398 | | |
| 14 q | 939 | 938 | 936 | 937 | 939 | 931 | 924 | 916 | 912 | 908 | 911 | 915 | 919 | 927 | 935 | 940 | 947 | 952 | 947 | 946 | 945 | 943 | 942 | 933 | 1386 | | |
| 15 q | 938 | 938 | 936 | 938 | 931 | 928 | 925 | 921 | 920 | 918 | 919 | 919 | 921 | 931 | 936 | 941 | 949 | 953 | 946 | 946 | 944 | 941 | 934 | 1413 | | | |
| 16 | 941 | 938 | 936 | 934 | 938 | 936 | 927 | 921 | 916 | 914 | 911 | 915 | 921 | 936 | 940 | 927 | 934 | 944 | 956 | 960 | 955 | 940 | 938 | 940 | 934 | 1418 | |
| 17 | 939 | 933 | 931 | 941 | 939 | 933 | 927 | 919 | 910 | 902 | 908 | 915 | 925 | 924 | 923 | 927 | 943 | 944 | 955 | 952 | 949 | 951 | 942 | 938 | 932 | 1370 | |
| 18 | 944 | 940 | 933 | 934 | 937 | 931 | 930 | 923 | 916 | 908 | 909 | 917 | 927 | 931 | 927 | 940 | 942 | 951 | 947 | 946 | 948 | 942 | 940 | 934 | 1405 | | |
| 19 | 945 | 936 | 931 | 932 | 932 | 930 | 927 | 924 | 919 | 915 | 912 | 910 | 909 | 916 | 923 | 924 | 933 | 945 | 952 | 958 | 954 | 954 | 950 | 939 | 1351 | | |
| 20 | 934 | 940 | 935 | 933 | 934 | 932 | 926 | 923 | 919 | 916 | 903 | 908 | 907 | 927 | 929 | 935 | 947 | 946 | 971 | 967 | 954 | 940 | 939 | 944 | 935 | 1436 | |
| 21 | 946 | 943 | 942 | 940 | 938 | 934 | 930 | 926 | 920 | 912 | 912 | 903 | 907 | 918 | 921 | 938 | 955 | 951 | 949 | 944 | 944 | 943 | 940 | 940 | 933 | 1396 | |
| 22 | 940 | 943 | 943 | 942 | 946 | 948 | 944 | 936 | 930 | 915 | 910 | 908 | 911 | 915 | 927 | 930 | 939 | 951 | 958 | 954 | 949 | 945 | 946 | 944 | 936 | 1474 | |
| 23 q | 940 | 939 | 940 | 942 | 946 | 950 | 945 | 937 | 926 | 915 | 904 | 904 | 910 | 916 | 934 | 951 | 953 | 954 | 948 | 947 | 946 | 945 | 943 | 937 | 1480 | | |
| 24 q | 943 | 942 | 943 | 945 | 946 | 947 | 943 | 939 | 930 | 920 | 914 | 907 | 911 | 921 | 933 | 943 | 954 | 960 | 959 | 955 | 948 | 945 | 944 | 943 | 939 | 1535 | |
| 25 | 942 | 946 | 946 | 946 | 948 | 947 | 943 | 935 | 927 | 915 | 911 | 909 | 917 | 931 | 939 | 950 | 958 | 951 | 945 | 945 | 946 | 951 | 960 | 940 | 1553 | | |
| 26 d | 958 | 955 | 953 | 960 | 962 | 958 | 949 | 945 | 935 | 885 | 813 | 850 | 832 | 880 | 923 | 979 | 1024 | 1020 | 988 | 927 | 889 | 856 | 825 | 899 | 924 | 1165 | |
| 27 | 896 | 901 | 896 | 897 | 896 | 892 | 889 | 887 | 881 | 875 | 871 | 874 | 878 | 888 | 895 | 903 | 908 | 915 | 916 | 918 | 919 | 919 | 922 | 917 | 898 | 553 | |
| 28 | 913 | 915 | 919 | 918 | 918 | 916 | 907 | 898 | 893 | 890 | 885 | 886 | 894 | 906 | 907 | 918 | 927 | 931 | 936 | 933 | 927 | 941 | 925 | 914 | 930 | 1188 | |
| 29 | 920 | 918 | 918 | 922 | 923 | 919 | 914 | 903 | 892 | 888 | 889 | 893 | 899 | 896 | 905 | 919 | 926 | 940 | 945 | 940 | 939 | 930 | 929 | 916 | 995 | 1188 | |
| 30 | 922 | 921 | 925 | 924 | 927 | 923 | 915 | 901 | 893 | 892 | 896 | 903 | 907 | 927 | 933 | 937 | 949 | 942 | 954 | 955 | 958 | 934 | 927 | 923 | 925 | 1188 | |
| 31 d | 934 | 937 | 923 | 926 | 949 | 951 | 924 | 898 | 867 | 873 | 861 | 880 | 907 | 900 | 928 | 973 | 974 | 957 | 998 | 972 | 951 | 899 | 925 | 906 | 926 | 1213 | |
| Mean | 935 | 935 | 932 | 933 | 934 | 933 | 928 | 922 | 914 | 906 | 900 | 902 | 907 | 915 | 924 | 934 | 943 | 947 | 952 | 947 | 942 | 935 | 934 | 935 | 929 | | |
| Sum 27,000γ+ | 2001 | 1970 | 1896 | 1914 | 1959 | 1920 | 1760 | 1577 | 1342 | 1099 | 912 | 967 | 1109 | 1378 | 1636 | 1960 | 2230 | 2367 | 2506 | 2368 | 2193 | 1976 | 1942 | 1971 | | Grand Total 690,953 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 20 ESKDALEMUIR (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | MAY 1966 | |
|--------------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|-----|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | | Mean | Sum |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | γ | γ+ | |
| 1 | 57.1 | 58.2 | 55.3 | 54.8 | 52.7 | 53.9 | 53.8 | 51.7 | 51.4 | 53.9 | 56.4 | 59.8 | 62.0 | 62.5 | 62.4 | 61.5 | 61.1 | 60.4 | 59.3 | 57.8 | 56.2 | 56.3 | 56.5 | 56.9 | 57.2 | 71.9 | |
| 2 d | 56.1 | 53.9 | 54.2 | 53.1 | 51.1 | 49.7 | 51.3 | 51.8 | 54.4 | 58.6 | 59.8 | 63.8 | 63.7 | 65.2 | 62.9 | 61.8 | 60.7 | 58.2 | 57.0 | 56.7 | 51.5 | 52.6 | 52.3 | 53.2 | 56.4 | 53.6 | |
| 3 | 54.2 | 54.6 | 55.0 | 56.0 | 55.0 | 53.1 | 51.9 | 51.8 | 52.0 | 53.8 | 57.1 | 60.1 | 63.2 | 64.6 | 64.5 | 63.5 | 62.2 | 59.6 | 58.1 | 57.7 | 56.7 | 55.6 | 55.5 | 51.8 | 57.0 | 68.6 | |
| 4 d | 54.0 | 47.8 | 52.2 | 56.5 | 54.1 | 53.3 | 52.7 | 53.2 | 52.9 | 54.3 | 57.2 | 61.3 | 63.7 | 64.2 | 64.3 | 61.6 | 60.1 | 59.0 | 55.4 | 55.5 | 54.4 | 55.4 | 55.4 | 55.2 | 56.3 | 52.2 | |
| 5 | 53.5 | 53.8 | 54.8 | 55.4 | 55.1 | 54. | | | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

MAY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000γ+ |
|-----------------|------|------|------|------|------|------|------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|-----------------|
| 1 | | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 2 d | 456 | 451 | 449 | 447 | 447 | 449 | 444 | 449 | 450 | 449 | 445 | 442 | 441 | 441 | 450 | 454 | 455 | 459 | 459 | 460 | 463 | 462 | 460 | 469 | 452 | 451 | 851 | |
| 3 | 454 | 443 | 443 | 447 | 449 | 449 | 448 | 443 | 440 | 437 | 437 | 436 | 443 | 452 | 459 | 465 | 470 | 472 | 475 | 474 | 472 | 460 | 454 | 454 | 453 | 453 | 876 | |
| 4 d | 446 | 435 | 430 | 431 | 431 | 437 | 443 | 449 | 450 | 448 | 443 | 441 | 441 | 446 | 452 | 457 | 461 | 467 | 470 | 469 | 467 | 463 | 463 | 459 | 457 | 457 | 959 | |
| 5 | 448 | 449 | 448 | 453 | 456 | 460 | 460 | 461 | 459 | 453 | 444 | 436 | 435 | 442 | 448 | 451 | 455 | 461 | 470 | 471 | 467 | 464 | 459 | 458 | 455 | 455 | 908 | |
| 6 | 456 | 453 | 445 | 438 | 440 | 439 | 448 | 449 | 447 | 442 | 442 | 440 | 439 | 443 | 451 | 454 | 459 | 463 | 464 | 463 | 462 | 459 | 458 | 458 | 451 | 451 | 812 | |
| 7 | 455 | 454 | 454 | 455 | 456 | 458 | 454 | 452 | 449 | 445 | 441 | 437 | 437 | 442 | 449 | 454 | 460 | 464 | 463 | 461 | 461 | 460 | 459 | 456 | 456 | 456 | 876 | |
| 8 | 455 | 455 | 456 | 455 | 455 | 455 | 455 | 454 | 449 | 443 | 436 | 431 | 431 | 440 | 446 | 454 | 463 | 462 | 466 | 469 | 472 | 470 | 462 | 461 | 454 | 454 | 895 | |
| 9 | 460 | 458 | 458 | 457 | 455 | 455 | 452 | 450 | 453 | 446 | 442 | 440 | 440 | 445 | 450 | 454 | 457 | 462 | 466 | 464 | 462 | 460 | 459 | 457 | 454 | 454 | 901 | |
| 10 q | 460 | 459 | 460 | 460 | 461 | 461 | 458 | 454 | 449 | 442 | 433 | 437 | 440 | 446 | 451 | 455 | 458 | 459 | 458 | 455 | 455 | 453 | 453 | 453 | 453 | 453 | 884 | |
| 11 d | 457 | 457 | 457 | 458 | 459 | 457 | 455 | 454 | 447 | 445 | 438 | 432 | 433 | 442 | 448 | 450 | 455 | 456 | 459 | 458 | 461 | 461 | 455 | 449 | 452 | 452 | 843 | |
| 12 | 447 | 447 | 450 | 455 | 455 | 455 | 457 | 457 | 454 | 449 | 446 | 445 | 443 | 447 | 450 | 457 | 460 | 461 | 461 | 461 | 464 | 460 | 458 | 454 | 454 | 454 | 893 | |
| 13 | 443 | 444 | 450 | 454 | 455 | 455 | 457 | 456 | 455 | 449 | 443 | 443 | 443 | 442 | 443 | 450 | 457 | 461 | 464 | 462 | 461 | 460 | 456 | 455 | 452 | 452 | 858 | |
| 14 q | 456 | 455 | 455 | 456 | 458 | 459 | 460 | 457 | 453 | 447 | 443 | 440 | 437 | 440 | 443 | 444 | 449 | 453 | 456 | 457 | 458 | 459 | 457 | 457 | 452 | 452 | 849 | |
| 15 q | 456 | 455 | 455 | 456 | 459 | 459 | 457 | 451 | 448 | 441 | 431 | 427 | 430 | 437 | 443 | 447 | 450 | 453 | 454 | 457 | 459 | 456 | 454 | 454 | 450 | 450 | 789 | |
| 16 | 454 | 454 | 455 | 456 | 458 | 459 | 459 | 455 | 451 | 442 | 439 | 437 | 438 | 443 | 449 | 453 | 455 | 454 | 454 | 457 | 460 | 459 | 456 | 454 | 452 | 452 | 851 | |
| 17 | 454 | 454 | 452 | 442 | 444 | 446 | 448 | 449 | 448 | 443 | 435 | 431 | 432 | 436 | 443 | 451 | 458 | 464 | 469 | 470 | 467 | 459 | 448 | 449 | 450 | 450 | 792 | |
| 18 | 443 | 443 | 448 | 446 | 448 | 448 | 452 | 457 | 458 | 452 | 441 | 434 | 431 | 435 | 442 | 448 | 453 | 459 | 460 | 460 | 457 | 458 | 455 | 454 | 449 | 449 | 782 | |
| 19 | 454 | 453 | 458 | 459 | 455 | 453 | 452 | 449 | 444 | 439 | 434 | 439 | 441 | 445 | 453 | 454 | 459 | 463 | 465 | 461 | 460 | 458 | 455 | 453 | 453 | 453 | 860 | |
| 20 | 456 | 454 | 453 | 454 | 454 | 454 | 451 | 448 | 444 | 442 | 439 | 435 | 431 | 431 | 439 | 451 | 461 | 467 | 469 | 470 | 468 | 459 | 454 | 452 | 452 | 850 | | |
| 21 | 454 | 454 | 454 | 456 | 455 | 454 | 454 | 454 | 451 | 448 | 442 | 437 | 432 | 439 | 446 | 450 | 456 | 460 | 461 | 460 | 457 | 456 | 457 | 456 | 452 | 452 | 843 | |
| 22 | 457 | 456 | 456 | 457 | 454 | 454 | 454 | 454 | 450 | 448 | 448 | 446 | 442 | 441 | 443 | 448 | 458 | 462 | 466 | 464 | 458 | 454 | 453 | 453 | 453 | 453 | 881 | |
| 23 q | 454 | 454 | 455 | 456 | 457 | 458 | 460 | 458 | 454 | 448 | 443 | 439 | 441 | 446 | 447 | 452 | 459 | 460 | 460 | 457 | 454 | 453 | 453 | 453 | 453 | 453 | 864 | |
| 24 q | 454 | 454 | 454 | 457 | 459 | 457 | 456 | 452 | 449 | 447 | 442 | 437 | 437 | 441 | 447 | 455 | 464 | 465 | 465 | 460 | 456 | 454 | 453 | 452 | 452 | 451 | 851 | |
| 25 | 454 | 455 | 454 | 454 | 456 | 456 | 453 | 452 | 450 | 441 | 430 | 424 | 428 | 438 | 445 | 450 | 460 | 465 | 466 | 464 | 455 | 456 | 454 | 452 | 451 | 451 | 812 | |
| 26 d | 452 | 452 | 452 | 452 | 453 | 453 | 451 | 449 | 442 | 446 | 447 | 447 | 464 | 467 | 483 | 500 | 543 | 587 | 583 | 496 | 475 | 478 | 422 | 410 | 471 | 471 | 1304 | |
| 27 | 455 | 468 | 477 | 478 | 480 | 483 | 482 | 477 | 474 | 469 | 460 | 453 | 454 | 460 | 465 | 474 | 477 | 476 | 473 | 471 | 471 | 469 | 467 | 467 | 470 | 470 | 1280 | |
| 28 | 468 | 467 | 466 | 467 | 467 | 466 | 465 | 465 | 459 | 451 | 447 | 443 | 449 | 462 | 471 | 474 | 476 | 477 | 475 | 471 | 469 | 468 | 464 | 461 | 465 | 465 | 1148 | |
| 29 | 464 | 465 | 466 | 468 | 470 | 469 | 465 | 463 | 460 | 460 | 457 | 453 | 451 | 455 | 459 | 461 | 465 | 469 | 472 | 475 | 475 | 470 | 467 | 465 | 464 | 464 | 1144 | |
| 30 | 466 | 465 | 466 | 467 | 468 | 471 | 470 | 468 | 465 | 459 | 448 | 443 | 445 | 447 | 450 | 457 | 463 | 470 | 474 | 476 | 478 | 471 | 461 | 463 | 463 | 1124 | | |
| 31 d | 437 | 437 | 445 | 448 | 409 | 402 | 426 | 432 | 436 | 436 | 443 | 445 | 450 | 466 | 489 | 498 | 530 | 526 | 507 | 487 | 483 | 477 | 464 | 442 | 459 | 459 | 1015 | |
| Mean | 454 | 453 | 454 | 455 | 454 | 455 | 455 | 454 | 452 | 447 | 443 | 439 | 440 | 445 | 451 | 457 | 464 | 469 | 470 | 467 | 465 | 463 | 457 | 454 | 455 | 455 | | |
| Sum 13,000γ+ | 1080 | 1055 | 1074 | 1093 | 1079 | 1092 | 1110 | 1080 | 1000 | 868 | 719 | 603 | 630 | 787 | 992 | 1176 | 1392 | 1542 | 1578 | 1465 | 1409 | 1338 | 1171 | 1080 | | Grand Total 338,413 | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph chamber °C | MAY 1966 | | |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|----------|---|------|
| 1 | 2321 | 1222 | 15 | 1311 | 1222 | 13 | 2220 | 0111 | 9 | 1010 | 0000 | 2 | 12·9 |
| 2 d | 3122 | 2433 | 20 | 3122 | 2433 | 20 | 2121 | 1132 | 13 | 2010 | 1001 | 5 | 12·9 |
| 3 | 1110 | 1223 | 11 | 1010 | 1222 | 9 | 1100 | 0013 | 6 | 0000 | 0000 | 0 | 12·9 |
| 4 d | 3223 | 3233 | 21 | 3223 | 3233 | 21 | 3211 | 1022 | 12 | 2110 | 0002 | 6 | 12·9 |
| 5 | 1111 | 1132 | 11 | 1011 | 1132 | 10 | 1110 | 0022 | 7 | 0000 | 0000 | 0 | 12·9 |
| 6 | 2321 | 1211 | 13 | 2321 | 1211 | 13 | 2220 | 0011 | 8 | 1010 | 0000 | 2 | 12·9 |
| 7 | 1102 | 1112 | 9 | 1002 | 1112 | 8 | 0101 | 0002 | 4 | 0000 | 0000 | 0 | 12·8 |
| 8 | 1001 | 3322 | 13 | 0001 | 3322 | 12 | 1000 | 1122 | 7 | 0000 | 0111 | 3 | 13·1 |
| 9 | 1111 | 1110 | 7 | 1111 | 1110 | 7 | 1110 | 0000 | 3 | 0000 | 0000 | 0 | 13·0 |
| 10 q | 0002 | 0111 | 5 | 0002 | 0111 | 5 | 0000 | 0000 | 0 | 0000 | 0000 | 0 | 13·0 |
| 11 d | 0012 | 3234 | 15 | 0012 | 3232 | 13 | 0001 | 1114 | 8 | 0000 | 0011 | 2 | 13·0 |
| 12 | 2221 | 2222 | 15 | 2211 | 2222 | 14 | 2121 | 0021 | 9 | 0000 | 0000 | 1 | 13·0 |
| 13 | 2112 | 1320 | 12 | 2112 | 1320 | 12 | 2112 | 1100 | 8 | 1001 | 0000 | 2 | 13·0 |
| 14 q | 1010 | 0110 | 4 | 1000 | 1110 | 4 | 0000 | 0000 | 0 | 0000 | 0000 | 0 | 13·2 |
| 15 q | 0001 | 0121 | 6 | 0001 | 0121 | 5 | 0010 | 0000 | 1 | 0000 | 0000 | 0 | 13·2 |
| 16 | 1000 | 2232 | 10 | 2000 | 2222 | 8 | 1000 | 0020 | 3 | 0000 | 0100 | 1 | 13·2 |
| 17 | 2312 | 2222 | 16 | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

JUNE 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ |
|-----------------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|-----------------|
| 1 d | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 898 | 896 | 907 | 922 | 927 | 933 | 932 | 931 | 933 | 930 | 929 | 925 | 914 | 938 |
| 2 d | 983 | 934 | 911 | 907 | 900 | 903 | 906 | 890 | 880 | 875 | 888 | 898 | 898 | 898 | 903 | 922 | 933 | 949 | 911 | 931 | 947 | 945 | 945 | 938 | 934 | 939 | 923 | 1144 |
| 3 | 925 | 926 | 926 | 927 | 928 | 930 | 925 | 912 | 901 | 892 | 879 | 876 | 903 | 922 | 933 | 949 | 911 | 931 | 947 | 945 | 945 | 938 | 934 | 939 | 923 | 1144 | 1353 | |
| 4 | 931 | 931 | 928 | 932 | 931 | 933 | 929 | 924 | 918 | 914 | 907 | 903 | 909 | 921 | 930 | 944 | 971 | 958 | 940 | 951 | 940 | 933 | 937 | 938 | 931 | 931 | 1353 | |
| 5 | 931 | 934 | 927 | 925 | 930 | 932 | 927 | 923 | 915 | 907 | 899 | 901 | 909 | 923 | 936 | 942 | 957 | 945 | 945 | 947 | 944 | 939 | 946 | 942 | 930 | 930 | 1326 | |
| 6 | 933 | 940 | 943 | 947 | 947 | 939 | 928 | 919 | 907 | 899 | 898 | 895 | 911 | 926 | 937 | 945 | 950 | 956 | 958 | 953 | 951 | 948 | 947 | 945 | 934 | 934 | 1422 | |
| 7 | 945 | 945 | 946 | 949 | 952 | 951 | 946 | 933 | 924 | 918 | 916 | 907 | 915 | 921 | 927 | 934 | 940 | 950 | 955 | 951 | 948 | 944 | 942 | 942 | 938 | 938 | 1501 | |
| 8 | 943 | 943 | 938 | 943 | 952 | 954 | 948 | 943 | 929 | 913 | 895 | 907 | 923 | 919 | 934 | 925 | 947 | 950 | 962 | 954 | 953 | 956 | 947 | 949 | 939 | 939 | 1527 | |
| 9 q | 942 | 941 | 934 | 934 | 938 | 945 | 944 | 940 | 928 | 914 | 902 | 896 | 906 | 901 | 912 | 923 | 932 | 947 | 952 | 952 | 949 | 944 | 942 | 941 | 932 | 932 | 1359 | |
| 10 q | 940 | 938 | 939 | 940 | 943 | 944 | 938 | 933 | 925 | 913 | 905 | 903 | 908 | 916 | 922 | 927 | 940 | 951 | 955 | 954 | 947 | 949 | 942 | 942 | 934 | 942 | 1427 | |
| 11 q | 946 | 945 | 942 | 939 | 939 | 940 | 937 | 931 | 920 | 908 | 902 | 902 | 907 | 914 | 927 | 944 | 953 | 957 | 963 | 964 | 960 | 958 | 955 | 951 | 938 | 938 | 1504 | |
| 12 | 952 | 947 | 943 | 940 | 939 | 933 | 931 | 934 | 929 | 922 | 914 | 916 | 895 | 916 | 919 | 935 | 947 | 957 | 957 | 953 | 959 | 940 | 929 | 931 | 935 | 935 | 1438 | |
| 13 | 939 | 932 | 932 | 935 | 935 | 934 | 917 | 916 | 911 | 908 | 911 | 916 | 920 | 923 | 936 | 942 | 945 | 949 | 953 | 955 | 949 | 943 | 940 | 940 | 933 | 933 | 1383 | |
| 14 | 933 | 934 | 934 | 934 | 938 | 937 | 930 | 918 | 911 | 914 | 920 | 933 | 927 | 923 | 932 | 936 | 940 | 952 | 957 | 960 | 953 | 948 | 943 | 938 | 935 | 935 | 1445 | |
| 15 | 935 | 938 | 936 | 938 | 939 | 934 | 927 | 922 | 917 | 914 | 920 | 929 | 936 | 942 | 940 | 943 | 949 | 953 | 954 | 965 | 953 | 951 | 944 | 939 | 938 | 938 | 1518 | |
| 16 | 946 | 939 | 950 | 946 | 944 | 939 | 930 | 924 | 923 | 917 | 913 | 920 | 922 | 920 | 934 | 936 | 948 | 947 | 954 | 956 | 953 | 949 | 944 | 953 | 938 | 938 | 1507 | |
| 17 | 942 | 940 | 942 | 938 | 942 | 942 | 943 | 943 | 927 | 920 | 908 | 903 | 906 | 922 | 938 | 936 | 939 | 941 | 949 | 959 | 960 | 955 | 951 | 945 | 942 | 937 | 1482 | |
| 18 q | 940 | 940 | 937 | 938 | 943 | 944 | 939 | 930 | 915 | 902 | 892 | 899 | 916 | 928 | 947 | 956 | 964 | 962 | 959 | 954 | 953 | 950 | 949 | 949 | 938 | 938 | 1506 | |
| 19 | 947 | 947 | 945 | 950 | 951 | 949 | 941 | 932 | 924 | 912 | 909 | 909 | 923 | 940 | 932 | 964 | 980 | 979 | 981 | 962 | 967 | 951 | 943 | 945 | 945 | 1683 | | |
| 20 | 947 | 950 | 951 | 950 | 949 | 945 | 925 | 922 | 916 | 909 | 908 | 904 | 907 | 917 | 925 | 929 | 932 | 951 | 970 | 960 | 955 | 949 | 946 | 944 | 936 | 1461 | | |
| 21 | 945 | 944 | 943 | 943 | 945 | 943 | 937 | 931 | 918 | 911 | 903 | 900 | 900 | 910 | 926 | 931 | 942 | 956 | 958 | 953 | 951 | 945 | 944 | 944 | 934 | 934 | 1423 | |
| 22 q | 942 | 941 | 940 | 942 | 942 | 944 | 938 | 931 | 929 | 922 | 912 | 909 | 912 | 913 | 918 | 929 | 942 | 951 | 959 | 960 | 955 | 951 | 950 | 950 | 937 | 937 | 1483 | |
| 23 d | 945 | 947 | 953 | 954 | 956 | 955 | 951 | 942 | 927 | 917 | 903 | 907 | 919 | 920 | 947 | 942 | 963 | 997 | 994 | 957 | 940 | 930 | 945 | 933 | 943 | 1644 | | |
| 24 d | 949 | 948 | 950 | 952 | 953 | 955 | 954 | 945 | 934 | 911 | 905 | 904 | 916 | 932 | 948 | 959 | 979 | 992 | 1006 | 985 | 954 | 928 | 933 | 940 | 947 | 1732 | | |
| 25 d | 942 | 931 | 934 | 931 | 931 | 932 | 920 | 916 | 900 | 879 | 877 | 877 | 911 | 923 | 929 | 940 | 951 | 970 | 958 | 939 | 937 | 926 | 930 | 930 | 1314 | | | |
| 26 | 936 | 934 | 933 | 935 | 932 | 929 | 927 | 920 | 911 | 911 | 907 | 919 | 938 | 942 | 934 | 964 | 942 | 954 | 964 | 955 | 947 | 943 | 943 | 937 | 936 | 1457 | | |
| 27 | 936 | 936 | 935 | 934 | 933 | 931 | 928 | 925 | 918 | 911 | 917 | 919 | 920 | 934 | 940 | 950 | 957 | 952 | 954 | 958 | 951 | 950 | 946 | 943 | 937 | 1478 | | |
| 28 | 942 | 941 | 942 | 944 | 943 | 945 | 945 | 940 | 933 | 923 | 915 | 917 | 928 | 936 | 943 | 950 | 962 | 971 | 963 | 966 | 958 | 950 | 942 | 942 | 943 | 1641 | | |
| 29 | 936 | 935 | 935 | 937 | 938 | 933 | 922 | 919 | 919 | 917 | 918 | 914 | 923 | 934 | 944 | 946 | 951 | 962 | 959 | 952 | 950 | 951 | 955 | 955 | 938 | 1505 | | |
| 30 | 938 | 939 | 944 | 940 | 941 | 940 | 933 | 926 | 918 | 911 | 910 | 911 | 915 | 924 | 931 | 926 | 934 | 952 | 961 | 964 | 962 | 950 | 947 | 947 | 936 | 936 | 1464 | |
| Mean | 942 | 939 | 938 | 939 | 940 | 939 | 933 | 927 | 919 | 910 | 905 | 907 | 915 | 923 | 932 | 940 | 948 | 956 | 960 | 957 | 952 | 945 | 944 | 942 | 935 | | | |
| Sum 1500·0'+ | 1251 | 1180 | 1152 | 1166 | 1194 | 1172 | 992 | 794 | 560 | 310 | 162 | 200 | 444 | 694 | 951 | 1205 | 1433 | 1681 | 1802 | 1698 | 1548 | 1360 | 1308 | 1261 | | Grand Total 673,518 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1300·0'+ |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------------|
| 1 d | | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | 28·6 |
| 2 d | 45·5 | 46·7 | 50·6 | 51·9 | 51·1 | 50·9 | 51·0 | 52·3 | 53·2 | 55·5 | 58·1 | 60·8 | 62·7 | 62·6 | 61·5 | 60·0 | 58·1 | 56·0 | 55·3 | 55·4 | 55·4 | 56·6 | 56·9 | 57·6 | 57·3 | 57·3 | 75·4 | |
| 3 | 56·4 | 56·4 | 56·1 | 54·8 | 53·0 | 51·8 | 51·1 | 50·8 | 51·0 | 52·0 | 56·7 | 61·0 | 63·5 | 65·6 | 65·8 | 64·6 | 61·3 | 59·1 | 57·9 | 55·2 | 57·8 | 57·9 | 57·7 | 57·9 | 57·3 | 57·3 | 77·7 | |
| 4 | 56·3 | 55·5 | 55·5 | 55·4 | 56·0 | 55·4 | 53·3 | 51·8 | 51·3 | 52·2 | 55·3 | 60·3 | 63·3 | 63·7 | 64·1 | 63·2 | 63·0 | 61·0 | 57·7 | 55·7 | 55·7 | 57·4 | 57·6 | 57·6 | 57·4 | 57·4 | 74·5 | |
| 5 | 54·5 | 52·9 | 52·4 | 52·6 | 53·0 | 53·3 | 52·2 | 52·0 | 50·7 | 51·4 | 54·8 | 60·5 | 64·6 | 67·4 | 68·4 | 69·4 | 68·6 | 69·1 | 68·0 | 67·7 | 67·7 | 67·7 | 67·7 | 67·7 | 67·7 | 67·7 | 75·0 | |
| 6 | 56·9 | 57·5 | 58·5 | 55·1 | 52·9 | 52·3 | 51·4 | 50·6 | 50·1 | 51·9 | 55·2 | 58·4 | 61·6 | 63·8 | 64·5 | 64·0 | 62·8 | 60·3 | 57·8 | 57·5 | 57·4 | 56·7 | 56·2 | 57·2 | 57·2 | 57·2 | 71·7 | |
| 7 | 55·6 | 55·6 | 56·0 | 53·9 | 54·5 | 52·6 | 51·2 | 50·8 | 51·3 | 54·8 | 57·8 | 61·3 | 63·7 | 64·5 | 63·2 | 62·7 | 61·7 | 58·5 | 57·5 | 56·8 | 57·5 | 57·1 | 57·2 | 57·3 | 57·3 | 57·3 | 74·0 | |
| 8 | 57·1 | 57·5 | 56·9 | 56·1 | 55·2 | 53·5 | 51·5 | 50·4 | 49·8 | 50·8 | 53·4 | 56·4 | 60·3 | 62·4 | 64·2 | 63·9 | 62·4 | 60·0 | 58·0 | 57·2 | 57·1 | 57·0 | 56·9 | 56·9 | 56·9 | 56·9 | 65·1 | |
| 9 q | 56·9 | 56·7 | 56·7 | 55·9 | 55·0 | 54·0 | 53·5 | 52·6 | 52·4 | 54·1 | 56·2 | 59·0 | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

59

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

JUNE 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000γ+ |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|-----------------|
| 1 d | 412 | 426 | 439 | 454 | 460 | 456 | 452 | 456 | 457 | 455 | 453 | 444 | 438 | 443 | 453 | 461 | 467 | 469 | 470 | 468 | 467 | 466 | 465 | 466 | 454 | 454 | 897 | |
| 2 d | 467 | 467 | 467 | 467 | 469 | 469 | 470 | 466 | 460 | 457 | 453 | 448 | 448 | 452 | 457 | 468 | 479 | 474 | 479 | 485 | 476 | 471 | 469 | 463 | 466 | 1181 | | |
| 3 | 465 | 467 | 468 | 466 | 465 | 465 | 465 | 467 | 467 | 465 | 454 | 446 | 446 | 453 | 459 | 465 | 467 | 472 | 479 | 482 | 477 | 471 | 467 | 461 | 465 | 1159 | | |
| 4 | 461 | 462 | 464 | 463 | 464 | 466 | 465 | 465 | 461 | 456 | 448 | 441 | 438 | 448 | 459 | 467 | 470 | 471 | 471 | 469 | 468 | 465 | 461 | 463 | 461 | 1066 | | |
| 5 | 463 | 460 | 460 | 460 | 460 | 460 | 459 | 457 | 453 | 446 | 437 | 435 | 438 | 445 | 454 | 459 | 465 | 466 | 465 | 460 | 460 | 460 | 460 | 456 | 456 | 942 | | |
| 6 | 460 | 460 | 453 | 452 | 447 | 447 | 450 | 453 | 453 | 452 | 446 | 441 | 442 | 446 | 451 | 459 | 461 | 461 | 465 | 465 | 461 | 460 | 459 | 455 | 455 | 911 | | |
| 7 | 459 | 459 | 459 | 451 | 447 | 446 | 451 | 454 | 454 | 452 | 452 | 448 | 448 | 453 | 460 | 464 | 467 | 472 | 475 | 471 | 468 | 464 | 463 | 459 | 458 | 996 | | |
| 8 | 456 | 456 | 458 | 460 | 461 | 462 | 462 | 461 | 459 | 455 | 451 | 449 | 449 | 453 | 459 | 460 | 465 | 471 | 471 | 468 | 464 | 462 | 461 | 460 | 460 | 1044 | | |
| 9 q | 461 | 461 | 463 | 465 | 465 | 467 | 467 | 469 | 466 | 464 | 455 | 449 | 444 | 450 | 454 | 456 | 461 | 465 | 470 | 471 | 468 | 465 | 461 | 459 | 461 | 1076 | | |
| 10 q | 459 | 460 | 461 | 462 | 463 | 463 | 461 | 461 | 459 | 454 | 446 | 441 | 441 | 443 | 448 | 449 | 452 | 458 | 456 | 460 | 459 | 457 | 456 | 455 | 455 | 927 | | |
| 11 q | 457 | 457 | 459 | 460 | 461 | 461 | 459 | 451 | 443 | 438 | 436 | 435 | 441 | 446 | 452 | 458 | 467 | 471 | 468 | 465 | 461 | 460 | 459 | 455 | 455 | 926 | | |
| 12 | 459 | 459 | 459 | 460 | 460 | 459 | 455 | 450 | 447 | 441 | 435 | 436 | 442 | 449 | 461 | 465 | 465 | 464 | 465 | 465 | 462 | 462 | 461 | 456 | 455 | 955 | | |
| 13 | 457 | 457 | 460 | 460 | 459 | 459 | 459 | 457 | 456 | 449 | 443 | 437 | 438 | 443 | 453 | 458 | 460 | 461 | 465 | 465 | 463 | 459 | 457 | 456 | 456 | 940 | | |
| 14 | 459 | 457 | 454 | 458 | 461 | 463 | 462 | 457 | 452 | 446 | 441 | 445 | 449 | 452 | 456 | 461 | 461 | 466 | 471 | 471 | 468 | 465 | 462 | 457 | 457 | 978 | | |
| 15 | 460 | 459 | 459 | 459 | 460 | 460 | 456 | 451 | 445 | 442 | 439 | 443 | 449 | 451 | 455 | 459 | 461 | 460 | 467 | 466 | 460 | 454 | 456 | 456 | 456 | 935 | | |
| 16 | 449 | 453 | 451 | 453 | 454 | 456 | 454 | 451 | 449 | 448 | 445 | 443 | 448 | 454 | 459 | 463 | 468 | 472 | 467 | 467 | 464 | 461 | 456 | 456 | 456 | 952 | | |
| 17 | 455 | 456 | 457 | 458 | 455 | 455 | 457 | 459 | 457 | 454 | 446 | 436 | 431 | 439 | 445 | 453 | 455 | 460 | 465 | 467 | 465 | 463 | 461 | 455 | 455 | 916 | | |
| 18 q | 460 | 460 | 461 | 462 | 461 | 463 | 463 | 464 | 460 | 456 | 450 | 443 | 443 | 446 | 452 | 454 | 456 | 460 | 461 | 460 | 459 | 459 | 457 | 457 | 457 | 973 | | |
| 19 | 459 | 459 | 460 | 461 | 463 | 464 | 460 | 456 | 453 | 450 | 446 | 443 | 442 | 444 | 449 | 448 | 456 | 465 | 461 | 459 | 463 | 462 | 461 | 456 | 449 | 1023 | | |
| 20 | 459 | 459 | 459 | 460 | 460 | 461 | 464 | 459 | 453 | 446 | 452 | 437 | 440 | 446 | 456 | 465 | 471 | 475 | 474 | 468 | 465 | 460 | 459 | 459 | 459 | 879 | | |
| 21 | 459 | 459 | 459 | 459 | 460 | 460 | 461 | 463 | 461 | 456 | 451 | 448 | 447 | 448 | 448 | 455 | 460 | 464 | 464 | 465 | 462 | 460 | 459 | 457 | 458 | 986 | | |
| 22 q | 458 | 459 | 459 | 460 | 460 | 460 | 462 | 457 | 449 | 447 | 446 | 442 | 443 | 453 | 461 | 464 | 461 | 461 | 463 | 465 | 462 | 459 | 458 | 457 | 457 | 974 | | |
| 23 d | 456 | 452 | 450 | 451 | 452 | 450 | 453 | 456 | 454 | 443 | 435 | 431 | 439 | 444 | 454 | 461 | 471 | 483 | 498 | 506 | 498 | 487 | 469 | 461 | 461 | 1054 | | |
| 24 d | 460 | 460 | 461 | 463 | 464 | 465 | 464 | 461 | 455 | 453 | 443 | 438 | 438 | 439 | 441 | 449 | 453 | 458 | 467 | 486 | 489 | 484 | 472 | 458 | 459 | 1021 | | |
| 25 d | 435 | 436 | 402 | 412 | 433 | 446 | 453 | 453 | 454 | 449 | 448 | 448 | 449 | 456 | 461 | 471 | 482 | 484 | 485 | 475 | 469 | 466 | 464 | 453 | 453 | 879 | | |
| 26 | 460 | 460 | 460 | 461 | 463 | 461 | 464 | 465 | 462 | 456 | 448 | 438 | 441 | 451 | 459 | 460 | 461 | 464 | 467 | 469 | 467 | 464 | 460 | 459 | 459 | 1021 | | |
| 27 | 460 | 460 | 460 | 464 | 466 | 465 | 463 | 460 | 454 | 449 | 448 | 449 | 453 | 455 | 459 | 460 | 461 | 460 | 460 | 460 | 460 | 459 | 459 | 459 | 459 | 1004 | | |
| 28 | 459 | 459 | 459 | 459 | 460 | 459 | 458 | 459 | 459 | 456 | 453 | 444 | 441 | 439 | 443 | 451 | 457 | 465 | 469 | 471 | 469 | 465 | 463 | 460 | 457 | 977 | | |
| 29 | 460 | 460 | 459 | 459 | 460 | 459 | 458 | 459 | 459 | 458 | 457 | 453 | 448 | 449 | 455 | 456 | 457 | 460 | 465 | 471 | 465 | 462 | 460 | 455 | 459 | 1004 | | |
| 30 | 457 | 457 | 452 | 448 | 448 | 451 | 454 | 458 | 459 | 457 | 454 | 450 | 448 | 450 | 454 | 460 | 464 | 465 | 468 | 467 | 466 | 461 | 453 | 457 | 457 | 968 | | |
| Mean | 457 | 457 | 456 | 457 | 459 | 459 | 460 | 459 | 457 | 452 | 447 | 443 | 443 | 447 | 453 | 458 | 462 | 466 | 469 | 471 | 468 | 465 | 462 | 459 | 458 | | | |
| Sum 13,000γ+ | 701 | 716 | 692 | 723 | 758 | 779 | 790 | 773 | 694 | 570 | 426 | 275 | 278 | 414 | 595 | 748 | 872 | 988 | 1064 | 1114 | 1048 | 966 | 868 | 782 | | Grand Total 329,634 | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph chamber °C |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 d | 5232 1011 | 15 | 5232 1011 | 15 | 4230 0000 | 9 | 3110 0000 | 5 | 1 | 13.0 |
| 2 d | 1113 4421 | 17 | 1003 4421 | 15 | 1111 1221 | 10 | 0000 1210 | 4 | 1 | 13.0 |
| 3 | 1111 1432 | 14 | 1011 1432 | 13 | 0110 0321 | 8 | 0000 0101 | 2 | 1 | 13.2 |
| 4 | 2101 1212 | 11 | 2101 1212 | 10 | 1200 0002 | 5 | 0000 0000 | 0 | 0 | 13.2 |
| 5 | 2112 2121 | 12 | 2112 2121 | 12 | 2110 0100 | 5 | 0000 0000 | 0 | 0 | 13.2 |
| 6 | 2101 3211 | 11 | 1101 3211 | 10 | 2100 1001 | 5 | 1000 0000 | 1 | 0 | 13.1 |
| 7 | 1312 3322 | 17 | 1212 3322 | 16 | 1311 1121 | 11 | 0100 0110 | 3 | 1 | 13.3 |
| 8 | 2111 2200 | 9 | 2111 2200 | 9 | 1111 0000 | 4 | 0000 0000 | 0 | 0 | 13.4 |
| 9 q | 0002 2212 | 9 | 0002 2211 | 8 | 0001 0112 | 5 | 0000 0000 | 0 | 0 | 13.4 |
| 10 q | 1111 1101 | 7 | 0011 1101 | 5 | 1110 0000 | 3 | 0000 0000 | 0 | 0 | 13.4 |
| 11 q | 1011 1221 | 9 | 1001 1221 | 8 | 0010 0010 | 2 | 0000 0000 | 0 | 0 | 13.4 |
| 12 | 2222 3322 | 18 | 2222 3322 | 18 | 1222 1001 | 9 | 0000 0000 | 1 | 0 | 13.5 |
| 13 | 2112 2211 | 13 | 2112 2211 | 12 | 1211 0011 | 7 | 0000 0000 | 0 | 0 | 13.4 |
| 14 | 2112 2222 | 14 | 1112 2221 | 12 | 2010 0012 | 6 | 0000 0000 | 0 | 0 | 13.4 |
| 15 | 1101 2223 | 12 | 1101 2223 | 11 | 0100 0023 | 6 | 0000 0011 | 2 | 0 | 13.4 |
| 16 | 3211 2232 | 16 | 3211 2232 | 16 | 2210 1012 | 9 | 0000 0001 | 1 | 1 | 13.4 |
| 17 | 1100 2221 | 9 | 1100 2221 | 9 | 0100 0011 | 3 | 0000 0000 | 0 | 0 | 13.5 |
| 18 q | 1101 1120 | 7 | 1001 1120 | 6 | 0100 0000 | 1 | 0000 0000 | 0 | 0 | 13.5 |
| 19 | 1100 4232 | 13 | 1000 4232 | 12 | 0100 2111 | 6 | 0000 1100 | 2 | 1 | 13.5 |
| 20 | 1221 2331 | 15 | 1121 2331 | 14 | 1211 0120 | 8 | 0000 0000 | 0 | 1 | 13.5 |
| 21 | 2211 2211 | 12 | 1111 2211 | 10 | 2210 0001 | 6 | 0000 0000 | 0 | 0 | 13.6 |
| 22 q | 1111 1111 | 8 | 1111 1111 | 8 | 1110 0001 | 4 | 0000 000 | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0·16 CGS unit) +

JULY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ |
|-----------------|------|------|------|------|------|------|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|-----------------|
| 1 | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 935 | 1448 |
| 2 | 930 | 934 | 933 | 936 | 933 | 926 | 931 | 929 | 919 | 904 | 905 | 913 | 923 | 939 | 950 | 946 | 948 | 955 | 957 | 950 | 950 | 947 | 948 | 942 | 935 | 935 | | |
| 3 | 940 | 936 | 937 | 939 | 938 | 934 | 928 | 921 | 919 | 915 | 913 | 919 | 930 | 938 | 950 | 952 | 952 | 957 | 958 | 950 | 948 | 951 | 954 | 945 | 939 | 1524 | | |
| 4 | 939 | 941 | 936 | 933 | 934 | 938 | 933 | 926 | 918 | 909 | 910 | 905 | 915 | 926 | 942 | 950 | 950 | 948 | 958 | 957 | 948 | 946 | 944 | 942 | 935 | 1448 | | |
| 5 | 942 | 941 | 939 | 938 | 941 | 940 | 934 | 930 | 922 | 919 | 924 | 915 | 933 | 920 | 944 | 968 | 939 | 975 | 938 | 958 | 950 | 954 | 923 | 939 | 935 | 1542 | | |
| 6 | 933 | 930 | 943 | 945 | 938 | 939 | 935 | 923 | 907 | 904 | 918 | 919 | 919 | 931 | 933 | 936 | 934 | 946 | 953 | 958 | 955 | 952 | 949 | 946 | 935 | 1446 | | |
| 7 | 945 | 946 | 946 | 943 | 945 | 943 | 937 | 936 | 925 | 911 | 894 | 899 | 911 | 911 | 935 | 945 | 949 | 952 | 953 | 953 | 950 | 946 | 946 | 945 | 936 | 1466 | | |
| 8 | q | 945 | 941 | 939 | 939 | 942 | 943 | 939 | 930 | 915 | 905 | 901 | 900 | 906 | 912 | 925 | 935 | 941 | 952 | 960 | 959 | 958 | 961 | 963 | 958 | 936 | 1469 | |
| 9 | d | 956 | 954 | 964 | 970 | 973 | 958 | 932 | 936 | 917 | 912 | 919 | 917 | 922 | 926 | 932 | 966 | 962 | 978 | 978 | 962 | 967 | 974 | 957 | 926 | 948 | 1758 | |
| 10 | d | 932 | 942 | 914 | 881 | 857 | 857 | 820 | 842 | 853 | 874 | 878 | 859 | 879 | 902 | 921 | 931 | 945 | 961 | 957 | 941 | 929 | 924 | 923 | 924 | 902 | 646 | |
| 11 | 927 | 914 | 911 | 917 | 890 | 886 | 891 | 890 | 890 | 894 | 870 | 854 | 896 | 925 | 919 | 923 | 930 | 944 | 947 | 938 | 948 | 946 | 940 | 927 | 914 | 927 | | |
| 12 | d | 925 | 929 | 925 | 918 | 916 | 942 | 935 | 902 | 875 | 859 | 870 | 878 | 896 | 909 | 928 | 933 | 936 | 929 | 937 | 942 | 936 | 932 | 931 | 917 | 1019 | | |
| 13 | q | 936 | 932 | 932 | 931 | 932 | 926 | 922 | 916 | 914 | 909 | 899 | 899 | 902 | 907 | 913 | 927 | 934 | 938 | 944 | 951 | 950 | 945 | 938 | 935 | 1232 | | |
| 14 | q | 936 | 934 | 935 | 938 | 938 | 937 | 933 | 929 | 921 | 915 | 910 | 912 | 924 | 928 | 929 | 931 | 934 | 950 | 958 | 950 | 947 | 945 | 945 | 935 | 1429 | | |
| 15 | 942 | 941 | 943 | 945 | 946 | 943 | 934 | 927 | 923 | 923 | 923 | 923 | 921 | 925 | 940 | 963 | 961 | 956 | 973 | 966 | 949 | 961 | 952 | 943 | 943 | 1636 | | |
| 16 | 952 | 949 | 950 | 945 | 944 | 942 | 929 | 918 | 908 | 909 | 911 | 927 | 939 | 945 | 943 | 953 | 970 | 960 | 950 | 955 | 952 | 953 | 950 | 940 | 940 | 1566 | | |
| 17 | 950 | 938 | 934 | 943 | 947 | 945 | 935 | 926 | 905 | 898 | 902 | 915 | 930 | 942 | 945 | 958 | 949 | 955 | 960 | 951 | 940 | 940 | 937 | 937 | 1494 | | | |
| 18 | q | 938 | 939 | 940 | 943 | 937 | 926 | 928 | 923 | 911 | 899 | 911 | 918 | 918 | 933 | 945 | 954 | 953 | 959 | 953 | 946 | 945 | 942 | 941 | 934 | 1413 | | |
| 19 | 940 | 942 | 944 | 945 | 943 | 945 | 931 | 922 | 915 | 912 | 909 | 910 | 921 | 931 | 939 | 942 | 930 | 947 | 958 | 959 | 945 | 945 | 946 | 936 | 1466 | | | |
| 20 | 947 | 942 | 940 | 945 | 949 | 947 | 946 | 942 | 933 | 921 | 913 | 913 | 913 | 918 | 923 | 936 | 954 | 951 | 954 | 947 | 954 | 954 | 955 | 939 | 1548 | | | |
| 21 | d | 949 | 951 | 945 | 959 | 918 | 941 | 939 | 936 | 925 | 913 | 897 | 896 | 910 | 925 | 924 | 938 | 976 | 967 | 981 | 965 | 943 | 943 | 947 | 936 | 939 | 1524 | |
| 22 | 943 | 937 | 919 | 922 | 925 | 921 | 923 | 917 | 907 | 901 | 896 | 898 | 907 | 926 | 936 | 946 | 952 | 964 | 948 | 959 | 956 | 941 | 936 | 932 | 930 | 1312 | | |
| 23 | 932 | 937 | 934 | 934 | 944 | 938 | 929 | 921 | 915 | 909 | 912 | 917 | 919 | 925 | 935 | 946 | 954 | 956 | 942 | 949 | 954 | 946 | 940 | 936 | 1453 | | | |
| 24 | 940 | 952 | 938 | 931 | 935 | 931 | 929 | 929 | 926 | 912 | 913 | 911 | 916 | 931 | 933 | 940 | 949 | 948 | 948 | 945 | 944 | 943 | 940 | 935 | 1433 | | | |
| 25 | q | 939 | 939 | 940 | 940 | 941 | 937 | 932 | 929 | 929 | 931 | 930 | 925 | 924 | 922 | 931 | 934 | 948 | 949 | 949 | 951 | 954 | 945 | 944 | 938 | 1505 | | |
| 26 | 937 | 940 | 947 | 942 | 949 | 943 | 936 | 925 | 920 | 913 | 910 | 912 | 910 | 911 | 923 | 932 | 942 | 954 | 969 | 966 | 956 | 951 | 944 | 938 | 936 | 1470 | | |
| 27 | 948 | 936 | 935 | 938 | 939 | 931 | 941 | 950 | 947 | 939 | 931 | 918 | 912 | 930 | 948 | 924 | 899 | 954 | 945 | 952 | 953 | 951 | 948 | 946 | 939 | 1525 | | |
| 28 | 938 | 936 | 947 | 980 | 971 | 952 | 937 | 926 | 927 | 913 | 909 | 909 | 927 | 919 | 920 | 926 | 937 | 963 | 951 | 957 | 956 | 949 | 946 | 944 | 939 | 1540 | | |
| 29 | 940 | 948 | 951 | 939 | 947 | 948 | 938 | 930 | 918 | 918 | 916 | 917 | 922 | 924 | 933 | 941 | 949 | 951 | 958 | 963 | 960 | 953 | 949 | 946 | 1559 | | | |
| 30 | 945 | 944 | 945 | 949 | 941 | 937 | 933 | 924 | 910 | 916 | 910 | 914 | 918 | 925 | 941 | 949 | 951 | 953 | 953 | 953 | 948 | 950 | 947 | 946 | 938 | 1502 | | |
| 31 | 945 | 944 | 941 | 943 | 945 | 941 | 934 | 922 | 909 | 905 | 901 | 907 | 920 | 932 | 947 | 955 | 949 | 959 | 958 | 953 | 949 | 949 | 960 | 951 | 938 | 1519 | | |
| Mean | | 940 | 939 | 938 | 939 | 936 | 935 | 928 | 922 | 914 | 908 | 906 | 907 | 916 | 925 | 933 | 941 | 947 | 954 | 955 | 954 | 951 | 947 | 946 | 941 | 934 | | |
| Sum 28,000γ+ | | 1135 | 1111 | 1073 | 1097 | 1018 | 976 | 769 | 595 | 341 | 154 | 83 | 101 | 401 | 663 | 913 | 1178 | 1361 | 1567 | 1596 | 1575 | 1472 | 1363 | 1338 | 1183 | Grand Total 695,063 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1300·0'+ |
|---|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------------|
| 1 | 52·3 | 53·2 | 53·5 | 53·7 | 53·1 | 51·8 | 51·1 | 50·9 | 51·6 | 53·9 | 57·2 | 59·9 | 62·9 | 65·2 | 64·2 | 61·7 | 61·0 | 60·3 | 59·0 | 57·2 | 57·6 | 57·5 | 56·8 | 56·5 | 56·8 | 62·1 | | |
| 2 | 55·1 | 55·1 | 54·5 | 54·2 | 53·0 | 51·8 | 53·0 | 52·7 | 53·3 | 56·1 | 59·9 | 62·9 | 64·7 | 65·0 | 63·3 | 61·3 | 58·9 | 57·7 | 56·8 | 57·3 | 57·3 | 54·1 | 52·2 | 56·7 | 62·0 | | | |
| 3 | 54·3 | 56·1 | 55·4 | 54·1 | 55·0 | 51·6 | 50·8 | 50·6 | 50·7 | 53·0 | 55·4 | 59·3 | 61·9 | 62·7 | 62·6 | 61·0 | 59·9 | 59·1 | 58·0 | 57·3 | 56·1 | 55·3 | 56·3 | 56·3 | 52·3 | | | |
| 4 | 55·4 | 55·4 | 55·2 | 54·9 | 55·3 | 55·1 | 52·1 | 51·3 | 51·8 | 53·9 | 57·5 | 61·8 | 67·5 | 67·0 | 67·6 | 67·6 | 63·4 | 63·1 | 63·1 | 63·1 | 63·1 | 56·1 | 55·3 | 56·3 | 88·6 | | | |
| 5 | 52·6 | 54·4 | 54·8 | 54·9 | 57·3 | 54·4 | 52·6 | 51·4 | 51·4 | 51·5 | 52·0 | 58·7 | 61·3 | 61·3 | 60·9 | 60·9 | 60·9 | 60·9 | 60·9 | 60·9 | 60·9 | 60·9 | 60·9 | 60·9 | 57·8 | | | |
| 6 | 56·8 | 57·3 | 56·9 | 55·4 | 53·6 | 52·6 | 52·7 | 52·5 | 51·8 | 51·8 | 53·0 | 55·2 | 58·4 | 60·5 | 61·7 | 61·9 | 61·4 | 58·4 | 59·1 | 58·1 | 57·2 | 57·2 | 56·8 | 56·4 | 56·8 | 63·6 | | |
| 7 | q | 57·3 | 56·8 | 55·7 | 54·0 | 52·5 | 51·6 | 50·7 | 49·9 | 50·5 | 51·5 | 54·5 | 57·2 | 58·7 | 59·7 | 61·2 | 61·3 | 60·3 | 59·6 | 58·4 | 58·0 | 57·9 | 57·9 | 56·4 | 56·3 | 51·9 | | |
| 8 | d | 56·2 | 54·3 | 54·5 | 55·1 | 52·3 | 48·5 | 49·1 | 53·8 | 54·7 | 56·7 | 57·8 | 58·9 | 61·4 | 62·7 | 63·4 | 64·2 | 63·8 | 62·7 | 60·7 | 58·8 | 58·0 | 49·8 | 45·4 | 43·1 | 45·9 | | |
| 9 | q | 48·2 | 47·7 | 43·0 | 56·1 | 56·0 | 53·2 | 58·4 | 64·3 | 57·2 | 57·1 | 56·7 | 59·0 | 63·0 | 63·0 | 6 | | | | | | | | | | | | |

GEO MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

61

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

JULY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000γ+ |
|-----------------|------|------|------|------|------|------|------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|-----------------|
| 1 | 448 | 453 | 454 | 456 | 459 | 460 | 457 | 457 | 450 | 445 | 445 | 441 | 441 | 448 | 453 | 458 | 463 | 464 | 464 | 468 | 465 | 463 | 460 | 457 | 455 | 455 | 929 | |
| 2 | 459 | 459 | 459 | 459 | 460 | 459 | 455 | 460 | 460 | 456 | 452 | 440 | 435 | 439 | 444 | 458 | 460 | 465 | 465 | 465 | 461 | 458 | 454 | 454 | 456 | 456 | 936 | |
| 3 | 455 | 454 | 454 | 458 | 459 | 454 | 456 | 453 | 449 | 446 | 442 | 442 | 446 | 445 | 442 | 448 | 456 | 459 | 458 | 460 | 464 | 463 | 460 | 459 | 453 | 453 | 882 | |
| 4 | 459 | 459 | 459 | 459 | 459 | 460 | 460 | 457 | 448 | 441 | 437 | 433 | 435 | 440 | 445 | 453 | 466 | 474 | 483 | 474 | 469 | 468 | 453 | 447 | 456 | 456 | 938 | |
| 5 | 447 | 453 | 454 | 454 | 455 | 457 | 460 | 461 | 456 | 449 | 442 | 440 | 437 | 445 | 450 | 459 | 465 | 468 | 469 | 466 | 464 | 460 | 459 | 455 | 455 | 450 | 930 | |
| 6 | 460 | 459 | 457 | 460 | 460 | 461 | 459 | 461 | 461 | 454 | 449 | 445 | 443 | 448 | 454 | 460 | 465 | 465 | 464 | 464 | 461 | 460 | 459 | 459 | 458 | 458 | 988 | |
| 7 q | 459 | 459 | 459 | 461 | 462 | 459 | 456 | 454 | 453 | 448 | 445 | 442 | 439 | 441 | 442 | 446 | 449 | 454 | 456 | 459 | 458 | 455 | 454 | 454 | 453 | 453 | 864 | |
| 8 d | 454 | 454 | 453 | 452 | 449 | 451 | 457 | 449 | 445 | 444 | 443 | 442 | 449 | 460 | 465 | 466 | 471 | 480 | 486 | 484 | 476 | 468 | 447 | 430 | 457 | 457 | 975 | |
| 9 d | 398 | 384 | 389 | 376 | 375 | 399 | 410 | 413 | 435 | 456 | 468 | 469 | 475 | 474 | 476 | 486 | 498 | 495 | 493 | 485 | 481 | 478 | 474 | 449 | 449 | 449 | 780 | |
| 10 d | 450 | 442 | 447 | 450 | 430 | 401 | 411 | 431 | 448 | 452 | 448 | 454 | 461 | 460 | 471 | 472 | 471 | 469 | 475 | 480 | 477 | 471 | 463 | 460 | 454 | 454 | 894 | |
| 11 | 464 | 460 | 449 | 450 | 453 | 458 | 459 | 463 | 467 | 467 | 465 | 456 | 452 | 454 | 459 | 461 | 461 | 462 | 465 | 465 | 464 | 464 | 463 | 457 | 460 | 460 | 1038 | |
| 12 d | 444 | 429 | 438 | 437 | 419 | 416 | 417 | 428 | 437 | 442 | 444 | 447 | 454 | 463 | 465 | 467 | 467 | 469 | 468 | 467 | 466 | 467 | 466 | 449 | 449 | 449 | 784 | |
| 13 q | 465 | 465 | 464 | 464 | 465 | 466 | 461 | 460 | 456 | 457 | 459 | 456 | 456 | 460 | 450 | 460 | 461 | 464 | 465 | 465 | 465 | 465 | 465 | 462 | 462 | 462 | 1085 | |
| 14 q | 464 | 464 | 462 | 464 | 464 | 465 | 464 | 461 | 459 | 459 | 452 | 441 | 433 | 437 | 443 | 454 | 464 | 465 | 465 | 466 | 465 | 464 | 461 | 458 | 458 | 457 | 997 | |
| 15 | 463 | 463 | 461 | 463 | 462 | 460 | 460 | 456 | 453 | 449 | 443 | 441 | 443 | 448 | 448 | 453 | 458 | 460 | 458 | 463 | 468 | 463 | 460 | 457 | 457 | 457 | 957 | |
| 16 | 460 | 159 | 458 | 458 | 458 | 458 | 458 | 460 | 461 | 449 | 439 | 438 | 442 | 449 | 461 | 465 | 460 | 461 | 467 | 469 | 468 | 466 | 463 | 455 | 458 | 458 | 982 | |
| 17 | 451 | 450 | 434 | 438 | 445 | 445 | 448 | 452 | 449 | 449 | 446 | 449 | 454 | 455 | 462 | 467 | 471 | 476 | 475 | 473 | 472 | 465 | 464 | 456 | 456 | 456 | 940 | |
| 18 q | 465 | 464 | 465 | 465 | 464 | 464 | 464 | 460 | 461 | 459 | 452 | 449 | 443 | 443 | 444 | 452 | 462 | 465 | 471 | 469 | 466 | 464 | 461 | 460 | 460 | 460 | 1040 | |
| 19 | 464 | 463 | 463 | 464 | 464 | 465 | 466 | 463 | 460 | 455 | 454 | 452 | 454 | 457 | 464 | 471 | 476 | 466 | 470 | 467 | 465 | 464 | 463 | 463 | 463 | 463 | 1116 | |
| 20 | 461 | 460 | 461 | 464 | 465 | 457 | 454 | 454 | 452 | 446 | 445 | 448 | 448 | 449 | 454 | 456 | 462 | 469 | 472 | 470 | 465 | 459 | 449 | 459 | 459 | 1008 | | |
| 21 d | 451 | 446 | 426 | 422 | 431 | 443 | 456 | 461 | 462 | 460 | 453 | 446 | 443 | 455 | 464 | 465 | 470 | 483 | 485 | 489 | 483 | 471 | 459 | 457 | 458 | 458 | 981 | |
| 22 | 417 | 422 | 436 | 453 | 460 | 465 | 465 | 467 | 467 | 461 | 454 | 453 | 450 | 455 | 461 | 466 | 471 | 473 | 475 | 469 | 465 | 464 | 459 | 459 | 459 | 459 | 1013 | |
| 23 | 463 | 461 | 461 | 462 | 461 | 460 | 454 | 453 | 450 | 447 | 448 | 449 | 449 | 452 | 457 | 461 | 465 | 471 | 472 | 471 | 469 | 465 | 462 | 460 | 460 | 460 | 1034 | |
| 24 | 460 | 454 | 453 | 453 | 454 | 459 | 455 | 454 | 453 | 453 | 452 | 446 | 448 | 454 | 458 | 460 | 463 | 464 | 464 | 463 | 461 | 460 | 457 | 457 | 457 | 457 | 970 | |
| 25 q | 460 | 460 | 460 | 460 | 459 | 459 | 458 | 448 | 441 | 437 | 437 | 437 | 442 | 449 | 454 | 456 | 462 | 469 | 472 | 470 | 465 | 465 | 463 | 460 | 456 | 456 | 946 | |
| 26 | 464 | 461 | 454 | 454 | 455 | 454 | 454 | 458 | 458 | 452 | 446 | 441 | 439 | 443 | 452 | 459 | 466 | 469 | 471 | 468 | 466 | 460 | 460 | 457 | 457 | 457 | 967 | |
| 27 | 454 | 456 | 458 | 458 | 460 | 459 | 456 | 454 | 449 | 448 | 447 | 442 | 437 | 438 | 454 | 461 | 456 | 461 | 464 | 465 | 464 | 461 | 463 | 455 | 455 | 455 | 930 | |
| 28 | 464 | 461 | 454 | 430 | 419 | 428 | 433 | 438 | 443 | 450 | 449 | 443 | 445 | 459 | 469 | 476 | 476 | 477 | 474 | 473 | 470 | 465 | 460 | 455 | 455 | 455 | 932 | |
| 29 | 459 | 448 | 443 | 454 | 459 | 461 | 461 | 464 | 464 | 457 | 444 | 439 | 441 | 446 | 449 | 456 | 460 | 464 | 462 | 459 | 461 | 460 | 459 | 455 | 455 | 455 | 930 | |
| 30 | 461 | 460 | 460 | 461 | 461 | 460 | 459 | 454 | 455 | 454 | 442 | 437 | 440 | 445 | 451 | 459 | 465 | 466 | 464 | 462 | 460 | 460 | 457 | 457 | 457 | 959 | | |
| 31 | 461 | 461 | 460 | 460 | 460 | 463 | 464 | 465 | 459 | 448 | 442 | 437 | 436 | 442 | 449 | 456 | 461 | 469 | 474 | 471 | 467 | 464 | 457 | 451 | 457 | 457 | 977 | |
| Mean | 455 | 453 | 452 | 452 | 452 | 453 | 453 | 454 | 454 | 452 | 448 | 445 | 445 | 450 | 455 | 461 | 465 | 468 | 470 | 469 | 468 | 465 | 461 | 458 | 457 | 457 | | |
| Sum 13,000γ+ | 1104 | 1043 | 1021 | 1012 | 1001 | 1035 | 1048 | 1081 | 1074 | 1003 | 897 | 790 | 805 | 952 | 1103 | 1282 | 1407 | 1496 | 1557 | 1556 | 1503 | 1427 | 1294 | 1211 | | Grand Total 339,702 | | |

GEO MAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

22 ESKDALEMUIR

JULY 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph chamber °C |
|--------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 | 2212 2221 | 14 | 2212 2221 | 14 | 1010 1111 | 6 | 1000 0010 | 2 | 1 | 13.5 |
| 2 | 1110 1223 | 11 | 1000 1222 | 8 | 1110 0103 | 7 | 0000 0000 | 0 | 0 | 13.5 |
| 3 | 2211 2220 | 12 | 1101 2220 | 9 | 2210 1010 | 7 | 0000 0000 | 0 | 0 | 13.5 |
| 4 | 1002 4534 | 19 | 1002 4534 | 19 | 0001 2213 | 9 | 0000 0112 | 4 | 1 | 13.5 |
| 5 | 2201 1121 | 10 | 2201 1121 | 10 | 2200 0101 | 6 | 0000 0000 | 0 | 0 | 13.5 |
| 6 | 1112 2121 | 11 | 1012 2121 | 10 | 1110 1001 | 5 | 0000 0000 | 0 | 0 | 13.5 |
| 7 q | 1100 0112 | 6 | 1000 0112 | 5 | 1100 0002 | 4 | 0000 0000 | 0 | 0 | 13.5 |
| 8 d | 2333 3335 | 25 | 2333 3334 | 24 | 2332 2115 | 19 | 0010 0213 | 7 | 1 | 13.5 |
| 9 d | 4543 3432 | 23 | 4543 3432 | 28 | 4442 0211 | 18 | 3322 0111 | 13 | 2 | 13.5 |
| 10 d | 3444 3232 | 25 | 3334 3232 | 23 | 3442 2112 | 19 | 2331 1011 | 12 | 1 | 13.5 |
| 11 | 2221 1223 | 15 | 2221 1223 | 15 | 2210 0103 | 9 | 1000 0001 | 2 | 1 | 13.5 |
| 12 d | 3433 2221 | 20 | 3433 2221 | 20 | 2232 1000 | 10 | 2220 1000 | 7 | 1 | 13.5 |
| 13 q | 1101 2111 | 8 | 1001 2111 | 7 | 1100 0000 | 2 | 0000 0000 | 0 | 0 | 13.5 |
| 14 q | 1101 1220 | 8 | 1000 1220 | 6 | 0101 1100 | 4 | 0000 0000 | 0 | 0 | 13.5 |
| 15 | 0000 2334 | 12 | 0000 2334 | 12 | 0000 1123 | 7 | 0000 0011 | 2 | 1 | 13.5 |
| 16 | 1111 1323 | 13 | 1111 1323 | 13 | 1111 1113 | 10 | 0001 0000 | 1 | 1 | 13.5 |
| 17</td | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

AUGUST 1966

| | Hour GMT 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | Mean | Sum 21,000γ+ |
|-----------------|--|------|------|------|------|------|-----|-----|-----|-----|-----|-----|---|-----|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| 1 | 955 | 949 | 952 | 951 | 942 | 942 | 937 | 927 | 920 | 919 | 915 | 911 | 916 | 928 | 944 | 955 | 958 | 966 | 961 | 959 | 954 | 947 | 946 | 951 | 942 | 1605 |
| 2 q | 938 | 938 | 942 | 943 | 936 | 930 | 916 | 909 | 905 | 906 | 913 | 924 | 937 | 948 | 949 | 949 | 950 | 952 | 946 | 944 | 945 | 948 | 935 | 935 | 1429 | |
| 3 | 955 | 955 | 952 | 952 | 943 | 935 | 927 | 924 | 915 | 907 | 908 | 924 | 944 | 954 | 941 | 928 | 944 | 948 | 941 | 940 | 937 | 940 | 937 | 938 | 1503 | |
| 4 | 938 | 937 | 941 | 944 | 938 | 937 | 934 | 929 | 922 | 913 | 904 | 905 | 915 | 918 | 919 | 916 | 937 | 946 | 955 | 955 | 949 | 944 | 947 | 932 | 932 | 1375 |
| 5 | 937 | 937 | 938 | 937 | 935 | 935 | 925 | 903 | 923 | 917 | 906 | 915 | 929 | 956 | 962 | 943 | 948 | 952 | 946 | 944 | 947 | 941 | 936 | 935 | 935 | 1447 |
| 6 | 940 | 952 | 946 | 939 | 941 | 940 | 934 | 926 | 913 | 909 | 898 | 899 | 909 | 924 | 937 | 937 | 944 | 952 | 951 | 947 | 950 | 942 | 938 | 939 | 934 | 1407 |
| 7 | 953 | 935 | 944 | 933 | 938 | 935 | 930 | 920 | 904 | 902 | 906 | 915 | 928 | 937 | 943 | 946 | 950 | 947 | 952 | 947 | 948 | 948 | 935 | 935 | 1446 | |
| 8 | 939 | 935 | 939 | 941 | 944 | 943 | 940 | 930 | 918 | 902 | 900 | 905 | 915 | 931 | 943 | 953 | 955 | 954 | 961 | 959 | 950 | 951 | 955 | 957 | 938 | 1520 |
| 9 | 952 | 939 | 942 | 945 | 943 | 936 | 934 | 938 | 928 | 917 | 909 | 908 | 913 | 920 | 931 | 948 | 953 | 947 | 959 | 954 | 952 | 942 | 946 | 948 | 938 | 1504 |
| 10 | 947 | 947 | 950 | 953 | 944 | 949 | 947 | 944 | 935 | 924 | 909 | 906 | 905 | 915 | 923 | 948 | 955 | 954 | 950 | 950 | 952 | 939 | 935 | 935 | 1535 | |
| 11 | 944 | 942 | 945 | 940 | 940 | 945 | 937 | 927 | 926 | 928 | 920 | 909 | 920 | 923 | 931 | 911 | 942 | 962 | 957 | 946 | 946 | 953 | 924 | 920 | 935 | 1438 |
| 12 | 933 | 945 | 939 | 948 | 948 | 944 | 942 | 917 | 911 | 921 | 926 | 910 | 904 | 925 | 931 | 942 | 944 | 950 | 950 | 948 | 950 | 952 | 958 | 943 | 937 | 1481 |
| 13 | 945 | 942 | 948 | 939 | 939 | 925 | 932 | 929 | 921 | 915 | 913 | 912 | 912 | 921 | 928 | 934 | 936 | 947 | 942 | 941 | 942 | 946 | 946 | 936 | 1399 | |
| 14 | 947 | 937 | 944 | 951 | 948 | 959 | 940 | 929 | 915 | 911 | 908 | 920 | 920 | 924 | 929 | 931 | 939 | 948 | 961 | 949 | 948 | 946 | 946 | 946 | 936 | 1458 |
| 15 | 947 | 946 | 944 | 942 | 944 | 942 | 935 | 929 | 922 | 908 | 897 | 904 | 911 | 915 | 921 | 933 | 941 | 943 | 949 | 955 | 953 | 951 | 957 | 949 | 935 | 1438 |
| 16 q | 948 | 949 | 946 | 948 | 941 | 939 | 931 | 926 | 912 | 905 | 908 | 916 | 925 | 935 | 938 | 940 | 939 | 940 | 946 | 949 | 950 | 948 | 951 | 952 | 937 | 1482 |
| 17 q | 951 | 944 | 944 | 944 | 939 | 932 | 923 | 931 | 900 | 894 | 897 | 918 | 935 | 950 | 945 | 945 | 953 | 949 | 948 | 949 | 949 | 948 | 948 | 937 | 1484 | |
| 18 | 948 | 949 | 949 | 947 | 948 | 947 | 942 | 931 | 923 | 900 | 888 | 902 | 913 | 941 | 952 | 947 | 952 | 961 | 963 | 943 | 945 | 952 | 951 | 948 | 939 | 1542 |
| 19 d | 949 | 952 | 952 | 940 | 928 | 924 | 927 | 921 | 906 | 886 | 857 | 867 | 895 | 943 | 936 | 947 | 947 | 950 | 932 | 930 | 938 | 940 | 941 | 938 | 927 | 1246 |
| 20 | 938 | 934 | 936 | 932 | 936 | 930 | 922 | 909 | 906 | 903 | 895 | 897 | 908 | 921 | 931 | 934 | 944 | 951 | 944 | 946 | 945 | 942 | 957 | 929 | 1307 | |
| 21 | 940 | 931 | 935 | 936 | 935 | 934 | 930 | 922 | 912 | 906 | 903 | 915 | 926 | 930 | 935 | 932 | 943 | 947 | 946 | 946 | 948 | 948 | 945 | 946 | 933 | 1391 |
| 22 q | 943 | 939 | 937 | 935 | 939 | 937 | 931 | 923 | 916 | 909 | 909 | 914 | 924 | 927 | 935 | 944 | 950 | 933 | 948 | 951 | 951 | 955 | 944 | 948 | 935 | 1442 |
| 23 d | 954 | 951 | 945 | 944 | 952 | 951 | 944 | 944 | 930 | 906 | 908 | 908 | 911 | 925 | 931 | 948 | 939 | 961 | 931 | 946 | 948 | 936 | 946 | 938 | 1501 | |
| 24 d | 940 | 944 | 935 | 935 | 936 | 931 | 921 | 914 | 913 | 915 | 927 | 933 | 914 | 935 | 935 | 932 | 941 | 936 | 948 | 952 | 952 | 950 | 942 | 944 | 934 | 1419 |
| 25 | 935 | 940 | 945 | 940 | 935 | 932 | 930 | 922 | 913 | 899 | 905 | 906 | 924 | 932 | 935 | 950 | 953 | 954 | 955 | 953 | 959 | 948 | 937 | 936 | 1455 | |
| 26 | 941 | 947 | 941 | 928 | 945 | 936 | 924 | 922 | 915 | 919 | 927 | 923 | 926 | 931 | 939 | 945 | 948 | 955 | 952 | 946 | 946 | 946 | 942 | 938 | 1502 | |
| 27 | 940 | 950 | 942 | 941 | 931 | 932 | 923 | 915 | 911 | 917 | 923 | 935 | 937 | 953 | 953 | 948 | 952 | 950 | 947 | 944 | 947 | 948 | 948 | 938 | 1505 | |
| 28 q | 943 | 941 | 940 | 941 | 939 | 935 | 929 | 921 | 913 | 910 | 908 | 911 | 921 | 933 | 941 | 955 | 954 | 952 | 952 | 945 | 949 | 948 | 950 | 937 | 1486 | |
| 29 | 942 | 936 | 939 | 940 | 942 | 940 | 931 | 922 | 917 | 910 | 907 | 909 | 928 | 961 | 958 | 956 | 952 | 956 | 967 | 965 | 967 | 978 | 922 | 942 | 1610 | |
| 30 d | 914 | 889 | 881 | 907 | 915 | 920 | 915 | 915 | 900 | 893 | 884 | 875 | 901 | 909 | 952 | 948 | 940 | 995 | 1035 | 959 | 975 | 952 | 885 | 926 | 898 | 924 |
| 31 d | 900 | 894 | 897 | 910 | 911 | 904 | 900 | 887 | 882 | 887 | 888 | 893 | 896 | 908 | 916 | 920 | 928 | 937 | 943 | 940 | 934 | 929 | 928 | 947 | 912 | 879 |
| Mean | 942 | 939 | 939 | 939 | 939 | 937 | 932 | 924 | 916 | 909 | 905 | 907 | 915 | 929 | 937 | 942 | 946 | 952 | 951 | 951 | 948 | 945 | 945 | 943 | 935 | |
| Sum 28,000γ+ | 1196 | 1126 | 1126 | 1125 | 1111 | 1045 | 879 | 632 | 387 | 168 | 46 | 108 | 380 | 811 | 1049 | 1190 | 1338 | 1505 | 1464 | 1476 | 1399 | 1309 | 1308 | 1226 | | Grand Total 695,404 |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

20 ESKDALEMUIR (D)

9° +

AUGUST 1966

| | Hour GMT 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | Mean | Sum 1200'0'+ |
|-----|--|------|------|------|------|------|------|------|--------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|-------|-----------------|
| 1 | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | |
| 2 q | 53·7 | 53·4 | 53·7 | 54·1 | 54·7 | 52·4 | 51·4 | 49·6 | 50·3 | 52·6 | 55·3 | 58·0 | 61·0 | 63·5 | 64·2 | 62·6 | 60·1 | 58·7 | 57·9 | 57·4 | 57·8 | 57·2 | 57·0 | 55·2 | 56·3 | 151·8 |
| 3 | 54·0 | 54·1 | 54·0 | 54·2 | 53·0 | 51·0 | 50·6 | 49·9 | 49·7 | 51·0 | 54·1 | 57·0 | 59·9 | 62·1 | 62·0 | 61·0 | 59·3 | 57·8 | 56·3 | 55·9 | 55·6 | 56·0 | 56·0 | 55·5 | 55·5 | 130·8 |
| 4 | 55·9 | 55·5 | 54·5 | 53·7 | 52·4 | 51·0 | 49·1 | 48·3 | 50·0 | 52·2 | 56·3 | 59·8 | 63·8 | 67·3 | 67·5 | 66·4 | 61·4 | 58·5 | 57·1 | 56·8 | 56·7 | 56·0 | 56·1 | 55·4 | 56·7 | 161·7 |
| 5 | 55·2 | 55·3 | 55·5 | 52·4 | 53·4 | 51·5 | 50·3 | 50·4 | 50·7 | 51·6 | 55·2 | 59·3 | 62·6 | 64·2 | 64·8 | 62·9 | 61·3 | 59·0 | 57·5 | 56·7 | 56·0 | 56·5 | 54·9 | 53·5 | 52·9 | 148·6 |
| 6 | 55·9 | 54·9 | 50·1 | 51·0 | 49·7 | 49·6 | 51·2 | 50·5 | 51·0 | 52·8 | 56·0 | 59·1 | 61·6 | 63·7 | 63·6 | 62·1 | 59·7 | 59·3 | 58·2 | 56·9 | 54·1 | 56·1 | 56·0 | 56·2 | 55·8 | 139·3 |
| 7 | 52·3 | 52·8 | 54·3 | 52·4 | 53·9 | 52·4 | 49·8 | 50·1 | 50·2 | 52·0 | 53·7 | 56·3 | 60·0 | 62·5 | 62·7 | 61·3 | 59·9 | 59·0 | 57·7 | 57·3 | 57·1 | 56·2 | 56·7 | 54·4 | 55·6 | 134·8 |
| 8 | 55·1 | 54·3 | 54·3 | 53·4 | 53·8 | 53·0 | 51·2 | 49·9 | 49·9 | 52·0 | 54·9 | 58·8 | 61·8 | 64·6 | 63·5 | 61·6 | 59·8 | 58·7 | 57·5 | 56·6 | 56·8 | 55·4 | 56·2 | 56·2 | 148·5 | |
| 9 | 51·3 | 49·8 | 51·9 | 53·4 | 53·0 | 51·2 | 50·5 | 49·1 | 49·0</ | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

AUGUST 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 10,000γ+ |
|-----------------|------|------|------|------|------|------|------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-----------------|
| 1 | 451 | 454 | 455 | 457 | 457 | 454 | 454 | 453 | 448 | 445 | 442 | 437 | 436 | 441 | 445 | 453 | 460 | 465 | 465 | 465 | 465 | 464 | 463 | 456 | 454 | 454 | 885 | |
| 2 q | 459 | 460 | 461 | 463 | 464 | 465 | 461 | 460 | 459 | 457 | 451 | 442 | 439 | 445 | 450 | 455 | 460 | 462 | 464 | 464 | 461 | 460 | 459 | 458 | 457 | 457 | 979 | |
| 3 | 459 | 459 | 460 | 460 | 463 | 463 | 459 | 458 | 454 | 449 | 448 | 441 | 437 | 446 | 465 | 477 | 484 | 482 | 472 | 466 | 463 | 461 | 460 | 460 | 460 | 460 | 1046 | |
| 4 | 464 | 463 | 463 | 463 | 465 | 465 | 463 | 460 | 454 | 449 | 448 | 443 | 443 | 454 | 466 | 477 | 474 | 472 | 468 | 465 | 466 | 465 | 463 | 460 | 461 | 461 | 1075 | |
| 5 | 456 | 457 | 460 | 463 | 464 | 463 | 457 | 454 | 453 | 449 | 446 | 444 | 447 | 458 | 466 | 483 | 489 | 479 | 474 | 468 | 465 | 463 | 461 | 464 | 462 | 462 | 1083 | |
| 6 | 461 | 454 | 450 | 450 | 451 | 450 | 452 | 453 | 458 | 457 | 451 | 446 | 437 | 436 | 450 | 463 | 469 | 469 | 471 | 468 | 468 | 465 | 463 | 460 | 456 | 456 | 952 | |
| 7 | 456 | 455 | 449 | 454 | 460 | 463 | 464 | 464 | 460 | 456 | 454 | 452 | 449 | 449 | 454 | 461 | 464 | 469 | 465 | 464 | 463 | 463 | 461 | 460 | 459 | 459 | 1009 | |
| 8 | 461 | 461 | 461 | 462 | 464 | 465 | 467 | 469 | 462 | 457 | 454 | 450 | 447 | 450 | 457 | 460 | 461 | 464 | 465 | 468 | 468 | 464 | 461 | 454 | 461 | 461 | 1052 | |
| 9 | 449 | 448 | 450 | 454 | 460 | 465 | 463 | 460 | 460 | 456 | 453 | 441 | 441 | 443 | 450 | 459 | 467 | 469 | 467 | 475 | 475 | 463 | 460 | 458 | 458 | 458 | 986 | |
| 10 | 459 | 457 | 452 | 444 | 448 | 450 | 455 | 454 | 453 | 446 | 445 | 446 | 449 | 459 | 466 | 477 | 474 | 469 | 467 | 465 | 465 | 464 | 459 | 458 | 458 | 458 | 992 | |
| 11 | 457 | 460 | 460 | 459 | 454 | 450 | 452 | 456 | 456 | 456 | 450 | 448 | 449 | 456 | 460 | 477 | 480 | 489 | 490 | 480 | 479 | 471 | 461 | 454 | 463 | 463 | 1104 | |
| 12 | 443 | 437 | 443 | 442 | 451 | 454 | 456 | 459 | 457 | 453 | 450 | 446 | 453 | 459 | 463 | 463 | 472 | 478 | 482 | 472 | 467 | 465 | 459 | 459 | 458 | 458 | 983 | |
| 13 | 460 | 460 | 452 | 450 | 459 | 463 | 460 | 462 | 459 | 454 | 454 | 452 | 448 | 450 | 459 | 465 | 468 | 471 | 474 | 470 | 466 | 465 | 463 | 460 | 460 | 460 | 1044 | |
| 14 | 457 | 453 | 448 | 438 | 437 | 433 | 437 | 442 | 448 | 448 | 448 | 446 | 448 | 449 | 455 | 460 | 464 | 465 | 465 | 466 | 465 | 464 | 464 | 453 | 453 | 453 | 867 | |
| 15 | 464 | 461 | 460 | 461 | 462 | 461 | 463 | 463 | 459 | 450 | 449 | 448 | 446 | 449 | 458 | 461 | 464 | 465 | 461 | 461 | 463 | 460 | 460 | 459 | 459 | 459 | 1012 | |
| 16 q | 461 | 457 | 452 | 453 | 458 | 459 | 460 | 461 | 461 | 459 | 452 | 448 | 444 | 449 | 459 | 467 | 467 | 467 | 464 | 462 | 461 | 461 | 460 | 458 | 458 | 458 | 1003 | |
| 17 q | 459 | 460 | 461 | 462 | 464 | 466 | 471 | 471 | 471 | 464 | 459 | 455 | 454 | 456 | 465 | 471 | 471 | 471 | 465 | 465 | 460 | 459 | 460 | 460 | 460 | 460 | 1125 | |
| 18 | 461 | 461 | 462 | 464 | 467 | 469 | 469 | 460 | 454 | 449 | 448 | 447 | 447 | 454 | 464 | 467 | 477 | 485 | 490 | 477 | 467 | 464 | 462 | 464 | 464 | 464 | 1128 | |
| 19 d | 464 | 455 | 453 | 443 | 442 | 454 | 461 | 464 | 465 | 460 | 459 | 459 | 461 | 462 | 471 | 478 | 493 | 511 | 508 | 492 | 475 | 469 | 468 | 467 | 468 | 468 | 1234 | |
| 20 | 465 | 465 | 461 | 462 | 466 | 467 | 461 | 465 | 459 | 455 | 454 | 452 | 456 | 459 | 463 | 469 | 471 | 471 | 468 | 466 | 465 | 465 | 464 | 457 | 463 | 463 | 1112 | |
| 21 | 454 | 457 | 460 | 462 | 464 | 465 | 463 | 461 | 457 | 453 | 448 | 447 | 452 | 459 | 465 | 468 | 472 | 471 | 468 | 465 | 464 | 463 | 460 | 461 | 461 | 461 | 1063 | |
| 22 q | 462 | 463 | 464 | 465 | 466 | 465 | 461 | 461 | 456 | 456 | 454 | 448 | 449 | 455 | 463 | 468 | 470 | 465 | 464 | 463 | 461 | 461 | 461 | 461 | 461 | 461 | 1071 | |
| 23 d | 453 | 450 | 454 | 458 | 457 | 458 | 458 | 457 | 454 | 452 | 443 | 441 | 442 | 448 | 458 | 469 | 476 | 490 | 500 | 485 | 481 | 469 | 462 | 444 | 461 | 461 | 1059 | |
| 24 d | 449 | 429 | 434 | 454 | 461 | 465 | 465 | 465 | 457 | 443 | 438 | 438 | 441 | 447 | 460 | 468 | 472 | 472 | 471 | 474 | 467 | 462 | 457 | 457 | 457 | 457 | 964 | |
| 25 | 460 | 455 | 449 | 454 | 462 | 465 | 466 | 465 | 463 | 459 | 449 | 443 | 446 | 449 | 453 | 463 | 468 | 470 | 474 | 472 | 468 | 454 | 454 | 459 | 459 | 459 | 1018 | |
| 26 | 460 | 457 | 450 | 452 | 455 | 460 | 461 | 459 | 454 | 450 | 445 | 441 | 443 | 449 | 454 | 458 | 464 | 466 | 465 | 465 | 465 | 460 | 460 | 457 | 457 | 457 | 958 | |
| 27 | 464 | 460 | 460 | 460 | 464 | 464 | 464 | 463 | 457 | 445 | 437 | 437 | 440 | 446 | 454 | 460 | 467 | 469 | 470 | 468 | 465 | 465 | 463 | 461 | 459 | 459 | 1004 | |
| 28 q | 461 | 462 | 463 | 464 | 465 | 466 | 464 | 465 | 464 | 459 | 453 | 450 | 448 | 449 | 457 | 465 | 473 | 474 | 471 | 468 | 466 | 464 | 462 | 462 | 462 | 462 | 462 | 1094 |
| 29 | 461 | 464 | 464 | 464 | 464 | 465 | 466 | 465 | 461 | 456 | 450 | 449 | 448 | 449 | 459 | 463 | 467 | 471 | 467 | 465 | 465 | 466 | 466 | 460 | 460 | 460 | 1051 | |
| 30 d | 417 | 389 | 378 | 382 | 402 | 429 | 443 | 453 | 460 | 459 | 453 | 445 | 438 | 436 | 447 | 460 | 464 | 493 | 514 | 549 | 505 | 404 | 449 | 482 | 450 | 450 | 811 | |
| 31 d | 467 | 462 | 482 | 483 | 480 | 482 | 482 | 485 | 487 | 481 | 476 | 467 | 468 | 468 | 474 | 483 | 483 | 480 | 477 | 474 | 472 | 472 | 468 | 476 | 476 | 476 | 1425 | |
| Mean | 457 | 454 | 454 | 455 | 458 | 460 | 461 | 461 | 459 | 455 | 451 | 447 | 447 | 450 | 458 | 466 | 471 | 474 | 476 | 472 | 469 | 462 | 462 | 459 | 460 | 460 | | |
| Sum 13,000γ+ | 1174 | 1084 | 1068 | 1098 | 1191 | 1260 | 1292 | 1298 | 1235 | 1091 | 969 | 860 | 843 | 959 | 1206 | 1449 | 1592 | 1699 | 1758 | 1644 | 1528 | 1334 | 1311 | 1246 | | | Grand Total 342,189 | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph chamber °C |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|
| 1 | 3210 | 2122 | 13 | 3210 | 2122 | 13 | 2110 | 1002 | 7 | 0000 0000 |
| 2 q | 1000 | 0001 | 2 | 1000 | 0001 | 2 | 0000 | 0000 | 0 | 0000 0000 |
| 3 | 1113 | 3321 | 15 | 1113 | 3321 | 15 | 1112 | 1201 | 9 | 0001 1100 |
| 4 | 1123 | 2323 | 17 | 1113 | 2323 | 16 | 0021 | 1112 | 8 | 0000 0000 |
| 5 | 1133 | 4322 | 19 | 1133 | 4322 | 19 | 1132 | 1212 | 13 | 0000 0000 |
| 6 | 3212 | 2321 | 16 | 2102 | 2321 | 13 | 3210 | 0121 | 10 | 1000 0000 |
| 7 | 3211 | 1111 | 11 | 3101 | 1111 | 9 | 2210 | 0001 | 6 | 1100 0000 |
| 8 | 1012 | 2222 | 12 | 1012 | 2222 | 12 | 1010 | 1112 | 7 | 0000 0001 |
| 9 | 2120 | 2333 | 16 | 2120 | 2332 | 15 | 2120 | 1133 | 13 | 0000 0020 |
| 10 | 3223 | 2222 | 21 | 3213 | 2332 | 21 | 3212 | 2233 | 18 | 1110 1330 |
| 11 | 1111 | 1122 | 10 | 0111 | 1101 | 6 | 2110 | 0001 | 3 | 0000 0000 |
| 12 q | 1000 | 1220 | 7 | 1000 | 1210 | 5 | 1100 | 0220 | 6 | 0000 0010 |
| 13 | 1012 | 3431 | 15 | 1012 | 3431 | 15 | 0011 | 1231 | 9 | 0000 1220 |
| 14 d | 3313 | 4333 | 23 | 2113 | 4332 | 21 | 3212 | 2233 | 18 | 1110 1330 |
| 15 | 2222 | 2112 | 14 | 2112 | 2112 | 12 | 2221 | 0012 | 10 | 0000 0001 |
| 21 | 2111 | 1211 | 10 | 2101 | 1211 | 9 | 1110 | 0111 | 6 | 0000 0000 |
| 22 q | 1100 | 1312 | 9 | 1100 | 1312 | 9 | 1000 | 0101 | 3 | 0000 0100 |
| 23 d | 3323 | 4443 | 26 | 3223 | 4443 | 25 | 2322 | 2333 | 20 | 1011 1333 |
| 24 d | 3123 | 4333 | 22 | 2113 | 4333 | 20 | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

SEPTEMBER 1966

| | Hour | GMT | 16,000γ (0.16 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | September | 1966 |
|-----------------|------|------|---------------------------|------|------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-----------------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 19,000γ+ |
| 1 d | 916 | 914 | 916 | 919 | 924 | 916 | 903 | 896 | 884 | 863 | 888 | 903 | 923 | 910 | 914 | 931 | 939 | 952 | 981 | 947 | 924 | 915 | 927 | 914 | 917 | 3019 |
| 2 | 926 | 941 | 922 | 918 | 922 | 916 | 899 | 887 | 881 | 885 | 890 | 907 | 925 | 940 | 945 | 967 | 943 | 966 | 943 | 947 | 941 | 939 | 931 | 926 | 3224 | |
| 3 d | 935 | 937 | 938 | 940 | 936 | 927 | 924 | 907 | 884 | 845 | 855 | 861 | 918 | 907 | 939 | 983 | 1000 | 998 | 967 | 912 | 872 | 815 | 572 | 885 | 902 | 2657 |
| 4 d | 575 | 355 | 561 | 851 | 807 | 834 | 767 | 809 | 806 | 833 | 832 | 864 | 913 | 918 | 908 | 906 | 932 | 929 | 915 | 899 | 903 | 906 | 908 | 903 | 826 | 834 |
| 5 | 898 | 899 | 894 | 897 | 900 | 898 | 892 | 881 | 869 | 860 | 859 | 890 | 888 | 890 | 901 | 940 | 918 | 914 | 913 | 916 | 918 | 929 | 923 | 900 | 2597 | |
| 6 d | 921 | 923 | 916 | 901 | 914 | 907 | 913 | 910 | 895 | 857 | 855 | 879 | 887 | 901 | 892 | 908 | 919 | 926 | 927 | 930 | 924 | 925 | 930 | 934 | 908 | 2794 |
| 7 | 930 | 919 | 925 | 928 | 919 | 911 | 914 | 913 | 901 | 888 | 891 | 902 | 896 | 905 | 925 | 928 | 913 | 916 | 932 | 926 | 945 | 937 | 929 | 935 | 918 | 3028 |
| 8 d | 930 | 929 | 924 | 905 | 931 | 937 | 900 | 903 | 887 | 878 | 841 | 857 | 872 | 905 | 910 | 920 | 913 | 912 | 915 | 912 | 935 | 920 | 943 | 908 | 2791 | |
| 9 | 923 | 922 | 915 | 916 | 916 | 913 | 886 | 876 | 877 | 872 | 864 | 876 | 888 | 911 | 907 | 923 | 927 | 931 | 930 | 929 | 934 | 947 | 931 | 929 | 910 | 2843 |
| 10 | 941 | 930 | 907 | 916 | 910 | 930 | 916 | 910 | 894 | 887 | 876 | 886 | 904 | 911 | 914 | 924 | 916 | 927 | 943 | 936 | 935 | 944 | 935 | 944 | 918 | 3036 |
| 11 q | 936 | 927 | 926 | 923 | 924 | 917 | 910 | 906 | 897 | 890 | 891 | 899 | 907 | 914 | 918 | 918 | 927 | 930 | 934 | 935 | 932 | 934 | 933 | 934 | 919 | 3062 |
| 12 q | 930 | 929 | 927 | 926 | 923 | 918 | 909 | 899 | 893 | 886 | 890 | 914 | 927 | 933 | 929 | 918 | 925 | 932 | 938 | 939 | 939 | 928 | 934 | 922 | 3132 | |
| 13 q | 937 | 935 | 937 | 928 | 927 | 922 | 916 | 910 | 908 | 910 | 913 | 918 | 932 | 936 | 941 | 932 | 929 | 935 | 938 | 937 | 936 | 938 | 940 | 929 | 3294 | |
| 14 | 937 | 939 | 938 | 936 | 934 | 930 | 925 | 915 | 912 | 920 | 927 | 931 | 937 | 945 | 962 | 951 | 954 | 954 | 936 | 940 | 946 | 953 | 935 | 936 | 3472 | |
| 15 | 946 | 917 | 929 | 915 | 923 | 921 | 911 | 905 | 899 | 896 | 906 | 911 | 921 | 924 | 935 | 939 | 934 | 947 | 949 | 922 | 924 | 923 | 916 | 923 | 3144 | |
| 16 | 907 | 911 | 921 | 926 | 928 | 924 | 917 | 908 | 903 | 901 | 904 | 915 | 911 | 924 | 924 | 931 | 941 | 932 | 938 | 928 | 931 | 937 | 943 | 946 | 923 | 3151 |
| 17 | 930 | 930 | 935 | 929 | 924 | 922 | 924 | 916 | 913 | 902 | 895 | 898 | 911 | 922 | 927 | 928 | 934 | 938 | 938 | 937 | 937 | 936 | 935 | 932 | 3193 | |
| 18 q | 931 | 931 | 933 | 934 | 931 | 928 | 926 | 916 | 902 | 896 | 904 | 918 | 924 | 928 | 931 | 934 | 935 | 941 | 942 | 946 | 945 | 938 | 941 | 942 | 3297 | |
| 19 | 938 | 935 | 942 | 940 | 942 | 941 | 941 | 940 | 924 | 914 | 908 | 906 | 915 | 918 | 922 | 930 | 932 | 936 | 948 | 945 | 938 | 944 | 942 | 952 | 933 | 3393 |
| 20 | 943 | 940 | 936 | 923 | 937 | 942 | 941 | 937 | 905 | 901 | 900 | 895 | 884 | 899 | 897 | 927 | 928 | 953 | 948 | 935 | 934 | 934 | 934 | 929 | 3212 | |
| 21 | 935 | 934 | 931 | 942 | 947 | 930 | 930 | 926 | 913 | 902 | 893 | 896 | 905 | 898 | 926 | 929 | 936 | 936 | 938 | 938 | 939 | 936 | 935 | 926 | 3233 | |
| 22 q | 930 | 927 | 929 | 930 | 932 | 928 | 927 | 921 | 907 | 905 | 904 | 912 | 929 | 934 | 935 | 932 | 936 | 933 | 927 | 936 | 931 | 938 | 936 | 937 | 927 | 3256 |
| 23 | 938 | 936 | 932 | 937 | 932 | 928 | 925 | 919 | 919 | 933 | 929 | 930 | 934 | 947 | 947 | 941 | 945 | 945 | 936 | 937 | 927 | 931 | 934 | 935 | 3440 | |
| 24 | 931 | 929 | 933 | 934 | 934 | 930 | 933 | 930 | 921 | 905 | 902 | 906 | 917 | 923 | 927 | 925 | 933 | 934 | 939 | 936 | 937 | 934 | 933 | 927 | 3260 | |
| 25 | 941 | 922 | 927 | 931 | 929 | 945 | 932 | 924 | 922 | 916 | 915 | 919 | 925 | 923 | 927 | 929 | 933 | 936 | 943 | 939 | 932 | 932 | 929 | 929 | 3307 | |
| 26 | 937 | 930 | 914 | 923 | 928 | 930 | 926 | 925 | 926 | 905 | 912 | 925 | 915 | 918 | 943 | 919 | 936 | 936 | 933 | 936 | 972 | 929 | 926 | 930 | 928 | 3274 |
| 27 | 935 | 917 | 924 | 934 | 927 | 932 | 934 | 930 | 913 | 903 | 915 | 910 | 918 | 924 | 928 | 928 | 927 | 938 | 945 | 936 | 933 | 935 | 938 | 928 | 3262 | |
| 28 | 941 | 932 | 934 | 928 | 945 | 925 | 918 | 921 | 913 | 905 | 899 | 908 | 919 | 927 | 921 | 907 | 928 | 929 | 932 | 933 | 934 | 938 | 944 | 927 | 3208 | |
| 29 | 918 | 925 | 932 | 928 | 935 | 928 | 932 | 909 | 903 | 899 | 903 | 909 | 917 | 926 | 928 | 937 | 934 | 922 | 931 | 927 | 943 | 927 | 932 | 933 | 3178 | |
| 30 | 933 | 931 | 934 | 931 | 936 | 943 | 944 | 924 | 897 | 901 | 906 | 909 | 907 | 916 | 918 | 918 | 930 | 928 | 930 | 935 | 937 | 939 | 923 | 926 | 3209 | |
| Mean | 919 | 908 | 915 | 923 | 924 | 923 | 915 | 909 | 899 | 892 | 892 | 901 | 912 | 919 | 924 | 931 | 933 | 935 | 938 | 933 | 932 | 930 | 921 | 931 | 919 | |
| Sum 26,000γ+ | 1569 | 1246 | 1434 | 1690 | 1720 | 1678 | 1444 | 1283 | 974 | 760 | 756 | 1043 | 1350 | 1563 | 1728 | 1925 | 2003 | 2053 | 2151 | 1993 | 1968 | 1893 | 1639 | 1937 | Grand Total 661,800 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

20 ESKDALEMUIR (D)

9° +

SEPTEMBER 1966

| | Hour | GMT | 9° + | | | | | | | | | | | | | | | | | | | | | | | | September | 1966 |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------------|-----------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1100' +' | | |
| 1 d | 53.2 | 52.7 | 52.7 | 53.3 | 52.3 | 52.4 | 53.2 | 55.5 | 57.0 | 57.7 | 60.5 | 60.1 | 62.6 | 62.3 | 58.9 | 58.6 | 58.5 | 57.1 | 45.3 | 46.7 | 50.4 | 50.0 | 49.9 | 53.7 | 54.8 | 214.6 | | |
| 2 | 55.2 | 56.7 | 53.3 | 51.8 | 52.0 | 50.8 | 47.4 | 48.9 | 50.3 | 53.1 | 57.7 | 60.9 | 63.6 | 64.3 | 62.4 | 61.2 | 59.3 | 58.8 | 58.1 | 54.0 | 57.1 | 56.5 | 55.1 | 54.9 | 55.0 | 243.4 | | |
| 3 d | 53.9 | 53.9 | 53.0 | 52.9 | 51.8 | 51.8 | 48.2 | 46.0 | 47.8 | 49.9 | 56.4 | 57.9 | 62.3 | 74.3 | 64.1 | 66.9 | 63.5 | 42.9 | 56.8 | 60.0 | 53.7 | 53.0 | 27.2 | 14.6 | 33.4 | 50.0 | | |
| 4 d | 4.8 | 9.4 | 33.4 | 27.2 | 53.8 | 63.4 | 53.6 | 59.3 | 56.4 | 55.0 | 57.2 | 60.4 | 60.2 | 58.1 | 58.0 | 55.5 | 54.4 | 48.5 | 49.8 | 50.8 | 53.0 | 48.5 | 52.4 | 53.6 | 49.0 | 77.0 | | |
| 5 | 54.5 | 52.7 | 52.0 | 51.2 | 50.9 | 51.5 | 50.5 | 49.9 | 50.5 | 52.8 | 55.0 | 59.1 | 62.9 | 63.2 | 59.4 | 61.0 | 59.0 | 55.4 | 51.5 | 54.7 | 54.3 | 55.1 | 55.5 | 54.5 | 55.0 | 220.4 | | |
| 6 d | 53.9 | 53.6 | 57.0 | 58.3 | 56.4 | 51.0 | 49.9 | 49.5 | 50.6 | 52.7 | 55.3 | 58.9 | 61.8 | 64.8 | 64.7 | 55.7 | 56.9 | 56.1 | 55.8 | 55.0 | 54.5 | 51.9 | 54.0 | 54.7 | 55.5 | 231.4 | | |
| 7 | 54.3 | 55.0 | 56.0 | 53.5 | 50.9 | 50.2 | 50.4 | 49.2 | 49.7 | 51.2 | 55.1 | 59.9 | 62.3 | 62.3 | 61.0 | 61.1 | 56.7 | 56.8 | 56.2 | 55.0 | 53.1 | 55.3 | 54.0 | 55. | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

SEPTEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 9,000γ+ | |
|-----------------|------|------|-----|-----|-----|-----|-----|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|------|----------------|-----|
| 1 d | 471 | 474 | 473 | 472 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 472 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 |
| 2 | 469 | 457 | 462 | 470 | 475 | 478 | 483 | 479 | 476 | 467 | 461 | 459 | 460 | 460 | 465 | 474 | 480 | 489 | 481 | 497 | 483 | 476 | 472 | 472 | 474 | 474 | 474 | 2366 | |
| 3 d | 472 | 471 | 471 | 471 | 472 | 471 | 469 | 466 | 460 | 456 | 452 | 457 | 459 | 464 | 489 | 564 | 623 | 627 | 625 | 541 | 469 | 361 | 56 | 78 | 456 | 1944 | 120 | | |
| 4 d | 22 | -139 | -30 | 95 | 237 | 238 | 316 | 360 | 411 | 450 | 491 | 509 | 534 | 543 | 514 | 503 | 519 | 557 | 535 | 517 | 495 | 486 | 478 | 479 | 380 | 485 | 2650 | | |
| 5 | 483 | 480 | 482 | 485 | 488 | 489 | 490 | 491 | 489 | 484 | 475 | 467 | 472 | 495 | 491 | 494 | 504 | 495 | 489 | 486 | 483 | 482 | 478 | 478 | 485 | 485 | 2374 | | |
| 6 d | 482 | 479 | 471 | 443 | 432 | 453 | 457 | 463 | 466 | 468 | 470 | 465 | 465 | 472 | 486 | 501 | 490 | 486 | 482 | 483 | 483 | 480 | 476 | 472 | 472 | 472 | 2336 | | |
| 7 | 471 | 471 | 468 | 469 | 472 | 476 | 477 | 476 | 477 | 474 | 469 | 466 | 471 | 483 | 489 | 504 | 520 | 508 | 499 | 497 | 480 | 460 | 466 | 468 | 480 | 480 | 2511 | | |
| 8 d | 472 | 476 | 474 | 446 | 452 | 460 | 465 | 459 | 455 | 460 | 470 | 473 | 506 | 511 | 511 | 541 | 546 | 547 | 535 | 514 | 502 | 459 | 456 | 441 | 485 | 485 | 2631 | | |
| 9 | 448 | 465 | 471 | 470 | 472 | 471 | 472 | 478 | 478 | 479 | 482 | 482 | 478 | 493 | 497 | 510 | 502 | 493 | 487 | 483 | 465 | 461 | 460 | 478 | 478 | 478 | 2480 | | |
| 10 | 434 | 442 | 446 | 441 | 450 | 453 | 469 | 474 | 476 | 466 | 465 | 467 | 467 | 471 | 486 | 497 | 494 | 489 | 486 | 482 | 478 | 472 | 471 | 459 | 468 | 468 | 2235 | | |
| 11 q | 453 | 463 | 469 | 473 | 475 | 478 | 479 | 478 | 476 | 472 | 470 | 466 | 466 | 468 | 471 | 476 | 476 | 475 | 475 | 476 | 476 | 476 | 476 | 476 | 472 | 472 | 2339 | | |
| 12 q | 474 | 474 | 475 | 475 | 477 | 478 | 475 | 475 | 471 | 464 | 461 | 462 | 462 | 467 | 476 | 485 | 487 | 480 | 478 | 477 | 476 | 476 | 475 | 475 | 475 | 475 | 2390 | | |
| 13 q | 473 | 472 | 471 | 472 | 471 | 474 | 475 | 475 | 471 | 465 | 465 | 467 | 468 | 472 | 477 | 476 | 476 | 476 | 475 | 474 | 474 | 474 | 472 | 472 | 472 | 472 | 2335 | | |
| 14 | 474 | 473 | 473 | 474 | 473 | 474 | 474 | 471 | 465 | 455 | 451 | 453 | 458 | 462 | 467 | 468 | 471 | 471 | 472 | 474 | 474 | 469 | 466 | 468 | 468 | 468 | 2236 | | |
| 15 | 442 | 460 | 468 | 466 | 462 | 468 | 471 | 469 | 463 | 459 | 456 | 458 | 464 | 468 | 476 | 482 | 482 | 478 | 477 | 479 | 484 | 479 | 467 | 457 | 468 | 468 | 2235 | | |
| 16 | 459 | 467 | 467 | 471 | 475 | 476 | 476 | 476 | 471 | 467 | 462 | 460 | 464 | 466 | 473 | 476 | 476 | 478 | 476 | 483 | 483 | 488 | 472 | 455 | 472 | 472 | 2317 | | |
| 17 | 470 | 466 | 454 | 449 | 459 | 465 | 466 | 465 | 465 | 466 | 464 | 460 | 458 | 462 | 470 | 477 | 477 | 475 | 472 | 472 | 471 | 471 | 467 | 467 | 2196 | | | | |
| 18 q | 475 | 474 | 474 | 474 | 472 | 473 | 472 | 471 | 469 | 461 | 454 | 449 | 452 | 459 | 465 | 470 | 471 | 471 | 471 | 472 | 471 | 471 | 468 | 2233 | | | | | |
| 19 | 472 | 472 | 471 | 469 | 467 | 468 | 467 | 469 | 470 | 465 | 460 | 454 | 450 | 456 | 464 | 469 | 472 | 476 | 473 | 472 | 471 | 469 | 454 | 467 | 2206 | | | | |
| 20 | 440 | 449 | 452 | 456 | 460 | 463 | 467 | 469 | 472 | 470 | 460 | 457 | 462 | 478 | 490 | 490 | 487 | 495 | 493 | 486 | 484 | 481 | 471 | 463 | 2295 | | | | |
| 21 | 459 | 467 | 467 | 457 | 454 | 463 | 469 | 473 | 472 | 468 | 463 | 458 | 458 | 464 | 470 | 475 | 476 | 472 | 474 | 473 | 472 | 471 | 470 | 467 | 2221 | | | | |
| 22 q | 472 | 472 | 472 | 472 | 471 | 472 | 474 | 474 | 472 | 469 | 463 | 460 | 460 | 468 | 472 | 476 | 480 | 478 | 480 | 478 | 472 | 471 | 472 | 472 | 2336 | | | | |
| 23 | 472 | 471 | 472 | 469 | 469 | 471 | 471 | 471 | 467 | 455 | 450 | 448 | 448 | 453 | 460 | 465 | 479 | 503 | 523 | 531 | 511 | 497 | 488 | 481 | 476 | 2425 | | | |
| 24 | 478 | 478 | 475 | 472 | 471 | 469 | 469 | 468 | 465 | 463 | 454 | 454 | 457 | 460 | 464 | 467 | 465 | 468 | 469 | 470 | 470 | 471 | 472 | 467 | 2214 | | | | |
| 25 | 470 | 472 | 471 | 470 | 465 | 454 | 458 | 461 | 459 | 454 | 450 | 452 | 454 | 458 | 460 | 464 | 468 | 467 | 466 | 471 | 477 | 479 | 475 | 464 | 2142 | | | | |
| 26 | 470 | 464 | 469 | 470 | 470 | 468 | 468 | 470 | 467 | 464 | 459 | 455 | 460 | 463 | 473 | 472 | 496 | 508 | 490 | 490 | 495 | 467 | 460 | 474 | 475 | 473 | 2344 | | |
| 27 | 471 | 465 | 455 | 454 | 458 | 454 | 456 | 461 | 465 | 467 | 461 | 463 | 466 | 465 | 467 | 475 | 478 | 479 | 478 | 479 | 483 | 482 | 479 | 468 | 468 | 2231 | | | |
| 28 | 473 | 473 | 465 | 431 | 417 | 437 | 433 | 452 | 466 | 465 | 464 | 459 | 460 | 464 | 477 | 482 | 489 | 494 | 481 | 474 | 475 | 471 | 471 | 466 | 2174 | | | | |
| 29 | 473 | 475 | 476 | 473 | 459 | 459 | 463 | 467 | 467 | 464 | 464 | 466 | 466 | 471 | 471 | 475 | 479 | 485 | 489 | 481 | 472 | 471 | 471 | 471 | 471 | 2309 | | | |
| 30 | 472 | 472 | 471 | 477 | 476 | 454 | 450 | 456 | 460 | 463 | 460 | 457 | 460 | 467 | 474 | 488 | 500 | 488 | 483 | 478 | 476 | 474 | 459 | 457 | 470 | 2272 | | | |
| Mean | 452 | 449 | 452 | 453 | 457 | 459 | 464 | 464 | 467 | 467 | 465 | 463 | 462 | 465 | 471 | 471 | 477 | 487 | 493 | 493 | 491 | 486 | 479 | 471 | 457 | 455 | 468 | | |
| Sum 13,000γ+ | 566 | 455 | 554 | 586 | 720 | 777 | 925 | 1000 | 1012 | 950 | 889 | 855 | 965 | 1140 | 1323 | 1598 | 1785 | 1789 | 1725 | 1586 | 1380 | 1133 | 726 | 658 | | Grand Total 337,097 | | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph chamber °C |
|------|---------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|
| 1 d | 1324 3353 | 24 | 1324 3353 | 24 | 0112 2343 | 16 | 0000 1332 | 9 | 1 | 12.8 |
| 2 | 3322 3443 | 24 | 3212 3443 | 22 | 2320 2232 | 16 | 2110 1120 | 8 | 1 | 12.7 |
| 3 d | 3224 5569 | 36 | 3224 5569 | 36 | 2223 3458 | 29 | 0002 4568 | 25 | 2 | 12.7 |
| 4 d | 9654 4433 | 38 | 9654 4433 | 36 | 7643 2433 | 32 | 7654 3431 | 33 | 2 | 12.7 |
| 5 | 2113 3423 | 19 | 1103 3423 | 17 | 2111 3311 | 13 | 0001 2210 | 6 | 1 | 12.7 |
| 6 d | 3333 4322 | 23 | 2333 4322 | 22 | 3331 3212 | 18 | 2210 2201 | 10 | 1 | 12.7 |
| 7 | 2222 3343 | 21 | 2212 3333 | 19 | 2221 2342 | 18 | 0000 2332 | 10 | 1 | 12.7 |
| 8 d | 3434 4434 | 29 | 2334 4434 | 27 | 3422 3434 | 25 | 0312 3234 | 18 | 1 | 12.6 |
| 9 | 3222 3434 | 23 | 2222 3433 | 21 | 3221 2424 | 20 | 3010 2222 | 12 | 1 | 12.7 |
| 10 | 4322 3333 | 24 | 3333 4432 | 25 | 2222 2433 | 20 | 3110 1112 | 11 | 1 | 12.7 |
| 11 q | 3111 1211 | 11 | 3111 1211 | 11 | 2111 0001 | 6 | 2000 0000 | 2 | 0 | 12.7 |
| 12 q | 0013 2312 | 12 | 0013 2311 | 11 | 0011 1012 | 6 | 0000 0000 | 0 | 0 | 12.7 |
| 13 q | 2100 2211 | 9 | 1100 2211 | 8 | 2000 0001 | 3 | 0000 0000 | 0 | 0 | 12.7 |
| 14 | 1011 2335 | 16 | 1001 2333 | 13 | 0010 0225 | 10 | 0000 0002 | 2 | 1 | 12.7 |
| 15 | 5322 2243 | 23 | 4322 2242 | 21 | 5322 1143 | 21 | 3110 0013 | 9 | 1 | 12.7 |
| 16 | 3113 2223 | 17 | 3103 2223 | 16 | 3112 2122 | 14 | 2000 0011 | 2 | 1 | 12.7 |
| 17 | 3322 1211 | 15 | 2122 1211 | 12 | 3321 1000 | 10 | 2200 0000 | 4 | 1 | 12.8 |
| 18 q | 0011 1111 | 6 | 0001 1111 | 5 | 0010 0001 | 2 | 0000 0000 | 0 | 0 | 12.7 |
| 19 | 3331 3333 | 22 | 3321 3333 | 21 | 2331 2132 | 17 | 1000 0003 | 4 | 1 | 12.6 |
| 20 | 3333 4433 | 26 | 3333 4432 | 25 | 2222 2433 | 20 | 1111 1112 | 9 | 1 | 12.6 |
| 21 | 3312 3111 | 15 | 2312 3111 | 14 | 3211 2001 | 10 | 1100 0000 | 2 | 1 | 12.6 |
| 22 q | 2111 1133 | 13 | 2111 1121</ | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

OCTOBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ |
|-----------------|------|------|-----|------|-----|------|------|------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-----------------|
| 1 | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 913 | 922 | 929 | 935 | 936 | 934 | 937 | 934 | 936 | 935 | 936 | 935 | 927 | 1236 |
| 2 q | | 934 | 934 | 932 | 933 | 933 | 930 | 931 | 925 | 920 | 908 | 903 | 902 | 908 | 920 | 928 | 931 | 931 | 932 | 935 | 937 | 936 | 938 | 935 | 927 | 1254 | | |
| 3 | | 936 | 934 | 935 | 935 | 937 | 936 | 940 | 946 | 941 | 934 | 924 | 916 | 911 | 915 | 923 | 930 | 936 | 941 | 944 | 946 | 947 | 943 | 943 | 935 | 1429 | | |
| 4 d | | 941 | 936 | 936 | 934 | 933 | 939 | 932 | 941 | 936 | 925 | 913 | 910 | 908 | 927 | 921 | 928 | 947 | 963 | 969 | 974 | 917 | 905 | 912 | 941 | 933 | 1388 | |
| 5 d | | 949 | 912 | 910 | 917 | 938 | 939 | 916 | 906 | 895 | 851 | 846 | 880 | 902 | 905 | 914 | 897 | 903 | 906 | 929 | 931 | 937 | 912 | 914 | 925 | 910 | 834 | |
| 6 d | | 919 | 926 | 927 | 924 | 943 | 905 | 934 | 923 | 922 | 897 | 892 | 896 | 892 | 898 | 913 | 915 | 913 | 916 | 921 | 927 | 925 | 930 | 944 | 933 | 918 | 1035 | |
| 7 | | 932 | 929 | 927 | 929 | 932 | 930 | 929 | 927 | 922 | 913 | 903 | 899 | 901 | 910 | 914 | 921 | 912 | 910 | 922 | 928 | 932 | 952 | 928 | 922 | 1134 | | |
| 8 | | 923 | 928 | 928 | 926 | 927 | 931 | 932 | 934 | 917 | 907 | 906 | 901 | 904 | 909 | 917 | 920 | 926 | 927 | 932 | 936 | 937 | 936 | 934 | 938 | 924 | 1176 | |
| 9 | | 940 | 940 | 940 | 935 | 930 | 936 | 942 | 931 | 919 | 907 | 905 | 908 | 915 | 914 | 916 | 917 | 923 | 925 | 929 | 934 | 934 | 938 | 938 | 927 | 1255 | | |
| 10 | | 932 | 931 | 932 | 933 | 932 | 930 | 927 | 923 | 915 | 913 | 909 | 910 | 915 | 917 | 922 | 926 | 931 | 934 | 935 | 938 | 936 | 937 | 936 | 927 | 1246 | | |
| 11 q | | 936 | 936 | 936 | 936 | 936 | 936 | 936 | 933 | 927 | 919 | 916 | 917 | 918 | 924 | 928 | 931 | 932 | 937 | 939 | 935 | 935 | 936 | 935 | 931 | 1350 | | |
| 12 | | 945 | 942 | 934 | 939 | 943 | 948 | 939 | 934 | 933 | 926 | 921 | 913 | 922 | 919 | 925 | 936 | 933 | 942 | 944 | 936 | 941 | 946 | 952 | 930 | 935 | 1443 | |
| 13 | | 945 | 935 | 936 | 937 | 937 | 938 | 934 | 932 | 926 | 925 | 929 | 921 | 922 | 926 | 932 | 933 | 941 | 941 | 943 | 940 | 940 | 957 | 935 | 1440 | | | |
| 14 | | 937 | 938 | 936 | 935 | 933 | 937 | 931 | 926 | 916 | 900 | 894 | 901 | 913 | 924 | 934 | 937 | 939 | 941 | 943 | 942 | 941 | 939 | 940 | 930 | 1318 | | |
| 15 | | 941 | 940 | 942 | 945 | 942 | 938 | 934 | 937 | 929 | 915 | 920 | 920 | 929 | 938 | 942 | 948 | 951 | 953 | 943 | 938 | 957 | 941 | 938 | 939 | 1520 | | |
| 16 d | | 936 | 945 | 945 | 950 | 945 | 964 | 952 | 894 | 889 | 898 | 891 | 865 | 868 | 853 | 880 | 889 | 904 | 907 | 901 | 917 | 924 | 923 | 927 | 928 | 912 | 895 | |
| 17 | | 935 | 924 | 926 | 928 | 927 | 924 | 920 | 913 | 904 | 896 | 891 | 897 | 905 | 918 | 928 | 936 | 928 | 937 | 939 | 937 | 934 | 923 | 1148 | | | | |
| 18 | | 944 | 928 | 930 | 929 | 933 | 935 | 932 | 929 | 923 | 912 | 902 | 899 | 901 | 910 | 916 | 924 | 933 | 937 | 941 | 941 | 940 | 939 | 936 | 927 | 1250 | | |
| 19 | | 936 | 933 | 934 | 937 | 936 | 936 | 935 | 932 | 926 | 922 | 913 | 911 | 914 | 920 | 926 | 931 | 937 | 938 | 931 | 942 | 944 | 943 | 946 | 932 | 1365 | | |
| 20 | | 944 | 938 | 937 | 936 | 936 | 939 | 945 | 947 | 944 | 932 | 922 | 917 | 915 | 920 | 924 | 930 | 935 | 936 | 941 | 943 | 937 | 941 | 937 | 935 | 1435 | | |
| 21 q | | 940 | 939 | 937 | 937 | 939 | 940 | 941 | 943 | 938 | 930 | 920 | 918 | 920 | 918 | 925 | 931 | 935 | 938 | 941 | 943 | 944 | 944 | 943 | 935 | 1448 | | |
| 22 q | | 944 | 942 | 940 | 940 | 940 | 941 | 944 | 945 | 941 | 932 | 922 | 915 | 916 | 921 | 927 | 932 | 937 | 940 | 942 | 947 | 946 | 942 | 942 | 937 | 1477 | | |
| 23 q | | 936 | 933 | 937 | 938 | 940 | 941 | 942 | 942 | 940 | 933 | 925 | 921 | 924 | 926 | 931 | 939 | 944 | 949 | 953 | 956 | 947 | 948 | 948 | 939 | 1546 | | |
| 24 | | 950 | 949 | 948 | 946 | 947 | 948 | 951 | 957 | 955 | 948 | 937 | 936 | 935 | 936 | 940 | 951 | 924 | 924 | 936 | 944 | 941 | 939 | 944 | 942 | 1613 | | |
| 25 | | 927 | 942 | 957 | 936 | 931 | 937 | 930 | 944 | 928 | 908 | 906 | 899 | 904 | 908 | 918 | 924 | 930 | 933 | 940 | 913 | 930 | 945 | 967 | 929 | 1291 | | |
| 26 | | 947 | 933 | 936 | 940 | 951 | 942 | 935 | 933 | 929 | 918 | 909 | 913 | 916 | 925 | 917 | 899 | 917 | 924 | 932 | 930 | 933 | 932 | 938 | 928 | 1282 | | |
| 27 | | 933 | 930 | 930 | 931 | 933 | 933 | 932 | 927 | 917 | 911 | 908 | 912 | 921 | 929 | 934 | 936 | 938 | 942 | 948 | 956 | 931 | 1338 | | | | | |
| 28 | | 935 | 932 | 930 | 931 | 935 | 936 | 935 | 935 | 924 | 914 | 909 | 910 | 917 | 923 | 929 | 935 | 938 | 941 | 941 | 943 | 942 | 937 | 931 | 1349 | | | |
| 29 | | 937 | 939 | 939 | 936 | 938 | 940 | 935 | 932 | 923 | 915 | 909 | 909 | 918 | 928 | 936 | 938 | 940 | 937 | 940 | 939 | 940 | 940 | 933 | 1385 | | | |
| 30 | | 947 | 946 | 944 | 946 | 945 | 945 | 946 | 940 | 931 | 925 | 922 | 927 | 937 | 951 | 959 | 951 | 939 | 929 | 912 | 912 | 917 | 928 | 935 | 1438 | | | |
| 31 d | | 932 | 946 | 954 | 925 | 933 | 915 | 931 | 930 | 929 | 916 | 908 | 892 | 889 | 913 | 893 | 890 | 912 | 920 | 883 | 909 | 892 | 911 | 917 | 915 | 954 | | |
| Mean | | 937 | 935 | 935 | 934 | 937 | 936 | 935 | 932 | 926 | 915 | 909 | 908 | 911 | 917 | 923 | 926 | 930 | 933 | 936 | 937 | 934 | 937 | 938 | 929 | | | |
| Sum 28,000γ+ | | 1063 | 995 | 1002 | 965 | 1031 | 1025 | 1001 | 905 | 706 | 372 | 187 | 137 | 250 | 444 | 626 | 694 | 836 | 915 | 1007 | 1032 | 1006 | 957 | 1044. | 1072 | | Grand Total 691,272 | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

20 ESKDALEMUIR (D)

9° +

OCTOBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1200' + |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| 1 | | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | |
| 2 q | | 54·2 | 52·2 | 50·1 | 49·2 | 51·0 | 51·8 | 53·0 | 52·5 | 52·6 | 53·1 | 55·6 | 57·4 | 59·3 | 59·3 | 58·6 | 57·9 | 56·5 | 55·9 | 55·5 | 55·6 | 55·8 | 54·7 | 54·6 | 54·5 | 54·6 | 110·9 | |
| 3 | | 54·6 | 54·4 | 54·0 | 54·4 | 54·4 | 53·6 | 52·5 | 52·2 | 52·0 | 53·7 | 56·5 | 59·1 | 60·0 | 60·1 | 59·3 | 57·4 | 55·8 | 55·4 | 55·4 | 54·9 | 54·7 | 54·6 | 53·9 | 53·9 | 55·3 | 126·8 | |
| 4 d | | 54·4 | 54·4 | 54·6 | 54·5 | 54·0 | 53·7 | 54·6 | 53·8 | 51·8 | 51·7 | 52·8 | 55·3 | 57·4 | 59·4 | 59·4 | 59·6 | 60·0 | 59·0 | 57·4 | 56·5 | 56·5 | 56·4 | 56·2 | 55·7 | 55·2 | 125·5 | |
| 5 d | | 43·6 | 39·4 | 48·9 | 55·5 | 52·7 | 50·2 | 54·6 | 54·7 | 52·7 | 52·2 | 59·4 | 62·6 | 61·0 | 60·5 | 61·1 | 58·5 | 58·5 | 49·9 | 53·0 | 49·7 | 50·1 | 45·0 | 52·1 | 52·0 | 52·0 | 79·3 | |
| 6 d | | 53·7 | 55·3 | 54·5 | 58·2 | 58·6 | 64·6 | 58·0 | 54·1 | 53·4 | 53·9 | 56·2 | 58·2 | 60·6 | 60·0 | 60·5 | 60·5 | 58·1 | 55·3 | 55·4 | 55·3 | 53·3 | 51·7 | 51·7 | 51·7 | 51·7 | 148·9 | |
| 7 | | 53·6 | 53·4 | 54·8 | 54·6 | 54·6 | 54·1 | 53·0 | 53·7 | 52·5 | 52·2 | 52·7 | 54·5 | 56·9 | 59·5 | 59·5 | 59·4 | 59·4 | 58·1 | 53·8 | 50·6 | 50·6 | 50·6 | 50·8 | 47·0 | 54·4 | 106·0 | |
| 8 | | 51·9 | 53·5 | 53·8 | 53·7 | 53·8 | 53·8 | 53·3 | 54·3 | 56·3 | 57·8 | 57·8 | 59·0 | 59·8 | 60·0 | 58·0 | 58·0 | 58·8 | 57·3 | 56·2 | 55·1 | 55·2 | 55·2 | 54·1 | 54·7 | 55·4 | 129·8 | |
| 9 | | 54·7 | 55·7 | 53·7 | 52·5 | 53·9 | 54·9 | 54·8 | 54·9 | 55·1 | 55·4 | 55·8 | 58·7 | 60·0 | 5 | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

67

21 ESKDALEMUIR (Z)

| | Hour | GMT | 45,000γ (0.45 CGS unit) + | | | | | | | | | | | | OCTOBER 1966 | | | Sum 11,000γ+ | | | | | | | | |
|-----------------|------|-----|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|--------------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|------------------------|
| | | | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 |
| 1 | 460 | 454 | 457 | 464 | 466 | 467 | 469 | 471 | 470 | 472 | 471 | 468 | 468 | 466 | 468 | 472 | 475 | 473 | 474 | 473 | 473 | 473 | 472 | 472 | 469 | 248 |
| 2 q | 472 | 472 | 472 | 470 | 469 | 469 | 470 | 472 | 469 | 466 | 460 | 456 | 455 | 457 | 464 | 470 | 472 | 471 | 470 | 469 | 469 | 469 | 469 | 468 | 468 | 221 |
| 3 | 470 | 470 | 470 | 469 | 469 | 465 | 463 | 463 | 459 | 458 | 457 | 455 | 457 | 461 | 466 | 468 | 467 | 466 | 466 | 466 | 468 | 470 | 468 | 468 | 465 | 164 |
| 4 d | 468 | 468 | 465 | 464 | 463 | 461 | 464 | 464 | 465 | 463 | 460 | 458 | 464 | 465 | 468 | 469 | 470 | 466 | 466 | 468 | 505 | 540 | 506 | 443 | 471 | 293 |
| 5 d | 434 | 410 | 425 | 411 | 418 | 446 | 454 | 462 | 465 | 470 | 467 | 470 | 470 | 475 | 477 | 500 | 525 | 516 | 503 | 482 | 470 | 471 | 470 | 466 | 465 | 157 |
| 6 d | 471 | 465 | 464 | 460 | 447 | 438 | 436 | 454 | 461 | 468 | 471 | 477 | 484 | 494 | 495 | 496 | 501 | 497 | 492 | 487 | 484 | 479 | 465 | 460 | 473 | 346 |
| 7 | 468 | 470 | 467 | 468 | 470 | 472 | 473 | 472 | 469 | 461 | 460 | 466 | 472 | 480 | 490 | 505 | 505 | 505 | 493 | 485 | 479 | 477 | 468 | 461 | 475 | 401 |
| 8 | 466 | 467 | 469 | 472 | 472 | 472 | 470 | 469 | 466 | 464 | 466 | 472 | 473 | 476 | 476 | 477 | 478 | 478 | 477 | 476 | 476 | 475 | 471 | 472 | 330 | |
| 9 | 472 | 469 | 464 | 462 | 464 | 465 | 464 | 465 | 466 | 461 | 457 | 467 | 474 | 479 | 480 | 490 | 487 | 484 | 479 | 477 | 477 | 476 | 472 | 472 | 317 | |
| 10 | 470 | 470 | 470 | 470 | 470 | 472 | 472 | 472 | 471 | 468 | 462 | 462 | 465 | 469 | 470 | 472 | 473 | 475 | 472 | 470 | 470 | 470 | 470 | 470 | 277 | |
| 11 q | 472 | 471 | 470 | 470 | 470 | 470 | 471 | 469 | 466 | 461 | 460 | 462 | 462 | 464 | 464 | 467 | 468 | 469 | 470 | 471 | 471 | 472 | 470 | 468 | 233 | |
| 12 | 465 | 462 | 466 | 466 | 464 | 466 | 466 | 467 | 465 | 463 | 457 | 457 | 456 | 461 | 462 | 467 | 470 | 469 | 471 | 476 | 470 | 466 | 468 | 465 | 170 | |
| 13 | 462 | 465 | 466 | 468 | 468 | 466 | 466 | 466 | 465 | 461 | 456 | 453 | 457 | 462 | 465 | 467 | 470 | 473 | 471 | 470 | 471 | 471 | 465 | 466 | 175 | |
| 14 | 466 | 468 | 468 | 469 | 472 | 470 | 470 | 472 | 472 | 471 | 465 | 461 | 464 | 464 | 467 | 472 | 473 | 472 | 470 | 471 | 472 | 472 | 469 | 268 | | |
| 15 | 472 | 472 | 470 | 467 | 467 | 466 | 466 | 467 | 468 | 465 | 454 | 447 | 450 | 459 | 462 | 465 | 468 | 470 | 473 | 480 | 476 | 472 | 467 | 454 | 466 | 177 |
| 16 d | 454 | 459 | 461 | 457 | 454 | 453 | 456 | 460 | 462 | 463 | 466 | 467 | 473 | 502 | 514 | 511 | 505 | 506 | 508 | 495 | 487 | 481 | 475 | 473 | 477 | 442 |
| 17 | 466 | 472 | 475 | 476 | 475 | 474 | 476 | 474 | 472 | 466 | 460 | 461 | 464 | 469 | 474 | 477 | 477 | 477 | 477 | 476 | 476 | 476 | 473 | 344 | | |
| 18 | 477 | 474 | 474 | 475 | 475 | 474 | 474 | 469 | 466 | 464 | 464 | 465 | 465 | 466 | 468 | 472 | 473 | 473 | 472 | 472 | 473 | 473 | 471 | 310 | | |
| 19 | 475 | 473 | 473 | 472 | 471 | 471 | 470 | 469 | 468 | 467 | 466 | 464 | 466 | 466 | 468 | 470 | 472 | 475 | 473 | 472 | 472 | 469 | 470 | 291 | | |
| 20 | 469 | 468 | 469 | 469 | 468 | 466 | 466 | 466 | 464 | 464 | 460 | 461 | 464 | 464 | 467 | 471 | 472 | 473 | 473 | 474 | 473 | 472 | 469 | 245 | | |
| 21 q | 472 | 471 | 470 | 469 | 468 | 467 | 466 | 466 | 465 | 460 | 455 | 460 | 464 | 466 | 466 | 467 | 468 | 469 | 470 | 469 | 471 | 472 | 470 | 468 | 200 | |
| 22 q | 470 | 469 | 469 | 468 | 468 | 467 | 467 | 466 | 466 | 464 | 458 | 461 | 466 | 469 | 471 | 470 | 469 | 469 | 468 | 468 | 470 | 471 | 471 | 466 | 193 | |
| 23 q | 471 | 470 | 469 | 468 | 467 | 467 | 467 | 466 | 466 | 464 | 461 | 461 | 461 | 462 | 465 | 466 | 465 | 465 | 467 | 471 | 471 | 471 | 471 | 466 | 190 | |
| 24 | 469 | 468 | 466 | 466 | 462 | 462 | 461 | 460 | 460 | 459 | 454 | 455 | 455 | 457 | 462 | 475 | 477 | 474 | 473 | 476 | 485 | 474 | 467 | 466 | 278 | |
| 25 | 467 | 461 | 449 | 449 | 460 | 462 | 462 | 456 | 462 | 464 | 461 | 455 | 460 | 471 | 472 | 473 | 475 | 475 | 479 | 478 | 484 | 481 | 475 | 447 | 466 | 278 |
| 31 d | 466 | 451 | 419 | 440 | 449 | 440 | 449 | 462 | 467 | 468 | 465 | 467 | 475 | 479 | 497 | 518 | 525 | 524 | 499 | 494 | 494 | 480 | 467 | 466 | 473 | 361 |
| Mean | 466 | 465 | 465 | 465 | 465 | 465 | 465 | 467 | 468 | 467 | 467 | 461 | 464 | 469 | 473 | 477 | 480 | 480 | 478 | 476 | 476 | 476 | 472 | 467 | 470 | |
| Sum 14,000γ+ | 458 | 420 | 400 | 407 | 402 | 399 | 428 | 478 | 499 | 472 | 467 | 306 | 388 | 524 | 649 | 782 | 876 | 873 | 814 | 751 | 757 | 757 | 645 | 476 | | Grand Total 349,428 |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

| 22 ESKDALEMUIR | | | | | | | | | | | | OCTOBER 1966 | | |
|----------------|------------------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|---------------------------------------|--|------|--------------|------|--|
| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph chamber °C | Mean | 0.52 | 13.4 | |
| 1 | 2211 1110 | 9 | 2111 1110 | 8 | 2211 1010 | 8 | 1000 0000 | 1 | 0 | 12.8 | | | | |
| 2 q | 0010 0111 | 4 | 0010 0111 | 4 | 0010 0001 | 2 | 0000 0000 | 0 | 0 | 12.8 | | | | |
| 3 | 0010 0013 | 5 | 0000 0013 | 4 | 0010 0002 | 3 | 0000 0001 | 1 | 0 | 13.4 | | | | |
| 4 d | 2221 3455 | 24 | 2221 3455 | 24 | 1211 2245 | 18 | 0000 1145 | 11 | 1 | 13.5 | | | | |
| 5 d | 4434 3453 | 30 | 4434 3353 | 29 | 4333 2452 | 26 | 3320 1331 | 16 | 2 | 13.5 | | | | |
| 6 d | 2432 3223 | 21 | 2422 3223 | 20 | 2432 2122 | 18 | 1332 1012 | 13 | 1 | 13.5 | | | | |
| 7 | 2100 1323 | 12 | 1100 1323 | 11 | 2100 1323 | 12 | 0000 1221 | 6 | 1 | 13.5 | | | | |
| 8 | 2111 1101 | 8 | 1111 1101 | 7 | 2010 1001 | 5 | 0000 0000 | 0 | 0 | 13.5 | | | | |
| 9 | 2112 2313 | 15 | 1112 2312 | 13 | 2112 1303 | 13 | 1000 0100 | 2 | 1 | 13.5 | | | | |
| 10 | 1011 0130 | 7 | 0001 0120 | 4 | 0101 0030 | 6 | 0000 0000 | 0 | 0 | 13.6 | | | | |
| 11 q | 0000 1010 | 2 | 0000 1010 | 2 | 0000 0010 | 1 | 0000 0000 | 0 | 0 | 13.5 | | | | |
| 12 | 2123 2233 | 18 | 2123 2233 | 18 | 2012 2133 | 14 | 1000 0011 | 3 | 1 | 13.5 | | | | |
| 13 | 2012 2224 | 15 | 2012 2224 | 15 | 2012 2222 | 13 | 0000 0001 | 1 | 1 | 13.5 | | | | |
| 14 | 1211 1111 | 9 | 1111 1111 | 8 | 1210 1001 | 6 | 0000 0000 | 0 | 0 | 13.5 | | | | |
| 15 | 1113 3343 | 19 | 1103 3343 | 18 | 1112 2143 | 15 | 0000 0022 | 4 | 1 | 13.5 | | | | |
| 16 d | 3343 4433 | 27 | 3343 4333 | 26 | 2333 3433 | 24 | 1111 3121 | 11 | 1 | 13.5 | | | | |
| 17 | 3101 1211 | 10 | 3101 1211 | 10 | 2100 0111 | 6 | 0000 0000 | 0 | 0 | 13.5 | | | | |
| 18 | 3001 1111 | 8 | 3001 1111 | 8 | 3001 1001 | 6 | 0000 0000 | 0 | 0 | 13.3 | | | | |
| 19 | 1111 0122 | 9 | 1011 0122 | 8 | 1111 0011 | 6 | 0000 0000 | 0 | 0 | 13.3 | | | | |
| 20 | 2111 1111 | 9 | 2101 1111 | 8 | 0110 1111 | 6 | 0000 0000 | 0 | 0 | 13.5 | | | | |
| 21 q | 0001 1110 | 4 | 0001 1110 | 4 | 0000 1000 | 1 | 0000 0000 | 0 | 0 | 13.5 | | | | |
| 22 q | 0000 1012 | 4 | 0000 1011 | 3 | 2011 0011 | 6 | 0000 0000 | 0 | 0 | 13.4 | | | | |
| 23 q | 2000 0111 | 5 | 1000 0111 | 4 | 2000 0001 | 3 | 0000 0000 | 0 | 0 | 13.4 | | | | |
| 24 | 1122 3323 | 17 | 1122 3323 | 17 | 0112 2223 | 13 | 0000 1112 | 5 | 1 | 13.4 | | | | |
| 25 | 3233 3344 | 25 | 3232 3344 | 24 | 3133 3243 | 22 | 2211 1023 | 12 | 1 | 13.5 | | | | |
| 26</ | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

| 19 ESKDALEMUIR (H) | | | | | | | | | | | | | 16,000γ (0.16 CGS unit) + | | | | | | | | | | | | | NOVEMBER 1966 | |
|--------------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|---------------|--|
| | Hour GMT | | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | Mean | Sum 21,000γ+ | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ | |
| 1 d | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | 884 | 892 | 920 | 934 | 896 | 912 | 904 | 920 | 927 | 944 | 951 | 923 | 914 | 938 | |
| 2 | 921 | 919 | 924 | 926 | 926 | 929 | 911 | 911 | 927 | 885 | 887 | 865 | 908 | 925 | 928 | 929 | 928 | 929 | 951 | 932 | 930 | 936 | 947 | 939 | 928 | 938 | |
| 3 d | 919 | 933 | 931 | 923 | 928 | 930 | 931 | 930 | 925 | 919 | 914 | 912 | 916 | 921 | 925 | 929 | 928 | 929 | 951 | 932 | 930 | 936 | 947 | 939 | 928 | 1277 | |
| 4 | 936 | 928 | 932 | 933 | 940 | 938 | 933 | 945 | 940 | 924 | 895 | 902 | 917 | 914 | 922 | 916 | 939 | 931 | 936 | 946 | 942 | 944 | 943 | 942 | 931 | 1338 | |
| 5 | 943 | 931 | 932 | 932 | 929 | 940 | 944 | 940 | 933 | 920 | 920 | 920 | 922 | 926 | 925 | 926 | 929 | 931 | 928 | 925 | 932 | 928 | 936 | 939 | 930 | 1331 | |
| 6 | 937 | 941 | 937 | 937 | 935 | 942 | 937 | 930 | 927 | 916 | 909 | 913 | 913 | 912 | 917 | 918 | 921 | 916 | 922 | 926 | 947 | 936 | 938 | 941 | 928 | 1268 | |
| 7 | 937 | 935 | 935 | 937 | 932 | 941 | 944 | 941 | 931 | 916 | 905 | 902 | 911 | 919 | 928 | 932 | 932 | 927 | 916 | 909 | 913 | 920 | 926 | 928 | 926 | 1217 | |
| 8 | 933 | 939 | 937 | 934 | 931 | 934 | 940 | 942 | 934 | 922 | 914 | 912 | 916 | 921 | 925 | 929 | 933 | 936 | 939 | 945 | 936 | 938 | 935 | 959 | 933 | 1384 | |
| 9 q | 945 | 928 | 927 | 926 | 935 | 937 | 937 | 940 | 935 | 926 | 919 | 913 | 915 | 924 | 931 | 928 | 937 | 942 | 936 | 943 | 943 | 940 | 940 | 933 | 1387 | | |
| 10 | 940 | 938 | 937 | 940 | 943 | 944 | 944 | 942 | 935 | 924 | 918 | 920 | 925 | 928 | 933 | 943 | 943 | 946 | 947 | 948 | 947 | 945 | 948 | 938 | 1516 | | |
| 11 | 946 | 946 | 947 | 951 | 952 | 951 | 945 | 945 | 941 | 935 | 926 | 921 | 916 | 928 | 929 | 934 | 931 | 937 | 941 | 935 | 932 | 927 | 936 | 937 | 937 | 1489 | |
| 12 | 949 | 938 | 937 | 943 | 937 | 948 | 940 | 936 | 932 | 927 | 904 | 909 | 922 | 924 | 928 | 931 | 938 | 941 | 943 | 944 | 942 | 941 | 940 | 935 | 1438 | | |
| 13 | 940 | 938 | 942 | 939 | 935 | 937 | 940 | 940 | 936 | 925 | 916 | 920 | 918 | 921 | 928 | 939 | 942 | 936 | 925 | 909 | 936 | 939 | 940 | 932 | 1378 | | |
| 14 q | 938 | 937 | 938 | 940 | 942 | 943 | 943 | 940 | 938 | 936 | 929 | 927 | 927 | 929 | 934 | 939 | 944 | 947 | 948 | 944 | 945 | 945 | 941 | 939 | 1544 | | |
| 15 | 936 | 938 | 940 | 941 | 943 | 944 | 944 | 941 | 933 | 926 | 924 | 929 | 935 | 935 | 936 | 940 | 938 | 931 | 932 | 938 | 937 | 936 | 936 | 1472 | | | |
| 16 | 935 | 936 | 939 | 938 | 945 | 951 | 949 | 945 | 932 | 928 | 922 | 923 | 920 | 924 | 929 | 930 | 935 | 941 | 943 | 945 | 943 | 940 | 938 | 937 | 936 | 1468 | |
| 17 | 942 | 937 | 937 | 948 | 957 | 951 | 955 | 956 | 944 | 935 | 931 | 930 | 935 | 941 | 946 | 949 | 951 | 967 | 933 | 908 | 916 | 926 | 933 | 939 | 940 | 1567 | |
| 18 | 939 | 938 | 940 | 942 | 943 | 944 | 944 | 943 | 938 | 930 | 925 | 931 | 935 | 940 | 947 | 946 | 948 | 937 | 925 | 933 | 940 | 922 | 932 | 913 | 936 | 1475 | |
| 19 | 924 | 939 | 932 | 949 | 940 | 940 | 937 | 933 | 923 | 929 | 922 | 920 | 920 | 915 | 921 | 928 | 933 | 936 | 942 | 940 | 937 | 940 | 943 | 933 | 1380 | | |
| 20 | 948 | 944 | 932 | 931 | 931 | 933 | 935 | 939 | 937 | 933 | 932 | 935 | 938 | 936 | 937 | 942 | 945 | 934 | 935 | 933 | 935 | 937 | 945 | 937 | 1484 | | |
| 21 | 934 | 933 | 932 | 937 | 940 | 942 | 942 | 942 | 934 | 937 | 935 | 934 | 935 | 936 | 937 | 938 | 941 | 945 | 946 | 944 | 932 | 933 | 944 | 938 | 1517 | | |
| 22 q | 936 | 932 | 935 | 938 | 940 | 941 | 942 | 943 | 940 | 938 | 936 | 933 | 932 | 933 | 934 | 938 | 941 | 944 | 945 | 944 | 943 | 942 | 940 | 939 | 1534 | | |
| 23 q | 940 | 944 | 942 | 946 | 946 | 949 | 951 | 948 | 944 | 944 | 943 | 937 | 938 | 940 | 941 | 946 | 947 | 947 | 948 | 945 | 944 | 948 | 940 | 1665 | | | |
| 24 | 944 | 944 | 940 | 937 | 959 | 953 | 945 | 947 | 942 | 937 | 930 | 931 | 930 | 931 | 931 | 941 | 944 | 944 | 942 | 941 | 942 | 940 | 941 | 1583 | | | |
| 25 q | 938 | 938 | 941 | 944 | 945 | 946 | 945 | 944 | 943 | 940 | 942 | 946 | 951 | 951 | 956 | 954 | 951 | 951 | 956 | 950 | 947 | 947 | 946 | 946 | 1709 | | |
| 26 | 948 | 940 | 935 | 940 | 938 | 948 | 951 | 949 | 947 | 955 | 943 | 945 | 940 | 932 | 933 | 940 | 935 | 941 | 940 | 940 | 941 | 941 | 939 | 942 | 1601 | | |
| 27 | 939 | 939 | 940 | 941 | 948 | 952 | 951 | 950 | 948 | 937 | 932 | 937 | 937 | 938 | 938 | 941 | 941 | 944 | 934 | 930 | 938 | 942 | 944 | 941 | 1576 | | |
| 28 d | 940 | 940 | 944 | 948 | 950 | 954 | 951 | 949 | 944 | 941 | 927 | 930 | 927 | 927 | 924 | 924 | 928 | 917 | 935 | 938 | 927 | 917 | 933 | 1404 | | | |
| 29 d | 912 | 934 | 934 | 938 | 941 | 938 | 937 | 939 | 933 | 918 | 916 | 912 | 913 | 911 | 915 | 907 | 914 | 922 | 936 | 933 | 934 | 932 | 926 | 1228 | | | |
| 30 d | 936 | 940 | 937 | 937 | 944 | 948 | 951 | 918 | 928 | 915 | 900 | 900 | 898 | 906 | 911 | 900 | 921 | 927 | 914 | 918 | 943 | 920 | 921 | 923 | 1158 | | |
| Mean | 937 | 937 | 937 | 939 | 941 | 943 | 942 | 941 | 936 | 929 | 921 | 921 | 923 | 926 | 930 | 932 | 935 | 937 | 935 | 937 | 938 | 939 | 938 | 934 | | | |
| Sum 27,000γ+ | 1111 | 1107 | 1096 | 1159 | 1215 | 1290 | 1266 | 1214 | 1087 | 854 | 622 | 622 | 693 | 783 | 909 | 965 | 1061 | 1097 | 1062 | 1048 | 1110 | 1138 | 1159 | 1132 | Grand Total 672,800 | | |

GEOMAGNETIC DECLINATION (WEST)
Mean values for periods of sixty minutes ending at exact hours, GMT

| 20 ESKDALEMUIR (D) | | | | | | | | | | | | | 9° + | | | | | | | | | | | | | NOVEMBER 1966 | |
|--------------------|----------|------|------|------|------|------|------|----------|------|------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|--|
| | Hour GMT | | | | | | | | | | | | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | Mean | Sum 1200·0' | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1200·0' | |
| 1 d | 53-9 | 56-3 | 56-8 | 54-7 | 57-4 | 57-3 | 59-6 | 59-4 | 55-5 | 54-5 | 56-3 | 56-7 | 51-0 | 61-2 | 60-7 | 62-3 | 55-8 | 51-7 | 50-4 | 54-5 | 53-7 | 49-0 | 51-5 | 50-8 | 55-9 | 141-0 | |
| 2 | 54-9 | 54-8 | 52-2 | 53-9 | 53-9 | 53-6 | 54-0 | 54-1 | 52-7 | 52-9 | 55-2 | 58-0 | 57-6 | 58-9 | 57-8 | 57-4 | 56-5 | 54-0 | 45-7 | 52-1 | 53-7 | 52-7 | 52-5 | 54-2 | 54-2 | 101-6 | |
| 3 d | 50-3 | 53-7 | 52-3 | 55-3 | 54-9 | 54-7 | 57-8 | 55-8 | 53-3 | 54-1 | 54-7 | 56-2 | 57-5 | 57-4 | 57-4 | 56-2 | 56-2 | 50-9 | 51-1 | 50-3 | 51-2 | 52-5 | 53-9 | 54-8 | 54-8 | 94-8 | |
| 4 | 52-9 | 53-3 | 53-8 | 53-8 | 55-7 | 56-4 | 55-5 | 54-5 | 53-6 | 52-8 | 54-9 | 57-5 | 58-6 | 59-6 | 59-5 | 55-9 | 55-5 | 56-0 | 56-0 | 52-0 | 53-6 | 53-7 | 54-7 | 54-7 | 122-0 | | |
| 5 | 53-7 | 55-4 | 54-6 | 54-6 | 54-9 | 54-7 | 55-1 | 56-2</td | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000 γ (0.45 CGS unit) +

NOVEMBER 1966

| | Hour | GMT | 45,000 γ (0.45 CGS unit) + | | | | | | | | | | | | | | | | | | | | | | | | | Sum |
|--------------------------|------|-----|-----------------------------------|------|------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|-------------------|--|-----|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | 11,000 γ + | | |
| 1 d | 450 | 450 | 456 | 460 | 464 | 464 | 467 | 466 | 473 | 479 | 479 | 484 | 496 | 500 | 492 | 500 | 520 | 524 | 506 | 495 | 487 | 481 | 463 | 462 | 480 | 518 | | |
| 2 | 453 | 442 | 453 | 464 | 471 | 473 | 474 | 475 | 477 | 475 | 472 | 471 | 472 | 473 | 473 | 476 | 479 | 484 | 480 | 475 | 475 | 468 | 460 | 470 | 290 | | | |
| 3 d | 461 | 464 | 466 | 467 | 467 | 466 | 462 | 461 | 466 | 466 | 471 | 472 | 473 | 479 | 487 | 491 | 492 | 484 | 483 | 477 | 472 | 468 | 466 | 463 | 472 | 324 | | |
| 4 | 461 | 465 | 467 | 470 | 470 | 466 | 466 | 467 | 471 | 469 | 464 | 462 | 462 | 466 | 472 | 472 | 477 | 479 | 482 | 484 | 480 | 473 | 472 | 472 | 471 | 294 | | |
| 5 | 472 | 470 | 469 | 470 | 470 | 468 | 467 | 469 | 470 | 471 | 472 | 472 | 473 | 479 | 481 | 487 | 487 | 492 | 489 | 487 | 483 | 477 | 475 | 472 | 476 | 422 | | |
| 6 | 472 | 471 | 471 | 471 | 472 | 468 | 468 | 472 | 475 | 476 | 473 | 469 | 466 | 468 | 473 | 477 | 479 | 483 | 491 | 499 | 501 | 495 | 490 | 484 | 478 | 464 | | |
| 7 | 478 | 473 | 473 | 473 | 475 | 475 | 474 | 474 | 475 | 475 | 472 | 469 | 468 | 470 | 473 | 477 | 476 | 475 | 476 | 478 | 476 | 462 | 474 | 474 | 371 | | | |
| 8 | 446 | 450 | 453 | 456 | 456 | 461 | 465 | 466 | 469 | 470 | 467 | 466 | 468 | 469 | 473 | 475 | 472 | 475 | 477 | 475 | 474 | 473 | 472 | 467 | 200 | | | |
| 9 q | 471 | 470 | 469 | 468 | 469 | 469 | 470 | 472 | 473 | 474 | 472 | 471 | 470 | 473 | 475 | 475 | 473 | 472 | 472 | 472 | 471 | 472 | 471 | 471 | 316 | | | |
| 10 | 469 | 468 | 466 | 466 | 466 | 466 | 468 | 468 | 467 | 467 | 469 | 471 | 472 | 473 | 476 | 475 | 475 | 473 | 476 | 481 | 484 | 482 | 477 | 472 | 324 | | | |
| 11 | 471 | 470 | 470 | 469 | 467 | 463 | 466 | 469 | 472 | 471 | 469 | 468 | 472 | 472 | 476 | 476 | 473 | 472 | 472 | 472 | 472 | 472 | 472 | 471 | 303 | | | |
| 12 | 472 | 472 | 466 | 464 | 466 | 468 | 471 | 473 | 474 | 473 | 472 | 471 | 472 | 473 | 473 | 476 | 485 | 499 | 490 | 484 | 479 | 478 | 475 | 390 | | | | |
| 13 | 477 | 475 | 473 | 472 | 471 | 470 | 470 | 472 | 472 | 470 | 470 | 472 | 474 | 478 | 477 | 476 | 479 | 480 | 478 | 476 | 476 | 473 | 474 | 378 | | | | |
| 14 q | 474 | 472 | 472 | 472 | 470 | 470 | 468 | 468 | 467 | 466 | 464 | 465 | 468 | 472 | 473 | 473 | 472 | 472 | 471 | 472 | 470 | 472 | 470 | 470 | 285 | | | |
| 15 | 473 | 472 | 471 | 470 | 470 | 470 | 470 | 470 | 470 | 470 | 467 | 466 | 466 | 468 | 473 | 475 | 476 | 476 | 476 | 477 | 471 | 470 | 472 | 319 | | | | |
| 16 | 469 | 467 | 465 | 465 | 462 | 462 | 461 | 461 | 462 | 462 | 465 | 462 | 462 | 466 | 473 | 473 | 473 | 473 | 472 | 472 | 472 | 472 | 472 | 467 | 215 | | | |
| 17 | 470 | 469 | 466 | 461 | 461 | 462 | 462 | 464 | 467 | 469 | 467 | 463 | 464 | 464 | 466 | 467 | 468 | 481 | 495 | 494 | 481 | 475 | 470 | 470 | 274 | | | |
| 18 | 469 | 470 | 471 | 471 | 471 | 470 | 469 | 469 | 470 | 470 | 469 | 467 | 466 | 468 | 471 | 470 | 480 | 501 | 491 | 487 | 493 | 484 | 476 | 475 | 393 | | | |
| 19 | 473 | 465 | 466 | 460 | 461 | 463 | 467 | 469 | 470 | 467 | 466 | 466 | 467 | 471 | 477 | 477 | 478 | 479 | 477 | 477 | 475 | 471 | 471 | 296 | | | | |
| 20 | 458 | 452 | 460 | 464 | 467 | 468 | 468 | 466 | 466 | 463 | 460 | 462 | 463 | 468 | 471 | 472 | 473 | 477 | 479 | 483 | 484 | 481 | 470 | 468 | 243 | | | |
| 21 | 473 | 473 | 472 | 467 | 466 | 467 | 467 | 468 | 468 | 467 | 466 | 466 | 466 | 470 | 472 | 472 | 472 | 473 | 477 | 478 | 472 | 470 | 470 | 287 | | | | |
| 22 q | 472 | 471 | 469 | 470 | 470 | 471 | 471 | 469 | 468 | 466 | 466 | 466 | 467 | 467 | 469 | 472 | 472 | 472 | 472 | 471 | 470 | 469 | 470 | 274 | | | | |
| 23 q | 472 | 469 | 468 | 469 | 469 | 469 | 468 | 468 | 466 | 464 | 466 | 466 | 468 | 470 | 472 | 471 | 471 | 470 | 470 | 471 | 471 | 469 | 469 | 249 | | | | |
| 24 | 469 | 467 | 467 | 466 | 460 | 461 | 465 | 465 | 466 | 467 | 468 | 466 | 468 | 470 | 473 | 473 | 472 | 472 | 472 | 472 | 472 | 472 | 469 | 236 | | | | |
| 25 q | 472 | 472 | 470 | 469 | 468 | 468 | 468 | 467 | 466 | 466 | 465 | 466 | 466 | 467 | 468 | 468 | 467 | 467 | 469 | 470 | 470 | 468 | 468 | 445 | | | | |
| 30 d | 472 | 470 | 470 | 468 | 465 | 465 | 466 | 466 | 469 | 463 | 464 | 468 | 475 | 480 | 484 | 492 | 509 | 494 | 488 | 489 | 495 | 490 | 475 | 466 | 445 | | | |
| Mean | 468 | 466 | 467 | 467 | 467 | 467 | 468 | 469 | 469 | 468 | 468 | 469 | 472 | 475 | 478 | 478 | 479 | 480 | 480 | 479 | 477 | 474 | 471 | 472 | | | | |
| Sum 13,000 γ + | 1047 | 990 | 1001 | 1009 | 1007 | 999 | 1018 | 1035 | 1067 | 1065 | 1047 | 1037 | 1079 | 1147 | 1248 | 1331 | 1349 | 1375 | 1397 | 1412 | 1357 | 1298 | 1214 | 1127 | Grand Total 339,656 | | | |

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

22 ESKDALEMUIR

NOVEMBER 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magnetograph chamber °C |
|------|---------------------|------------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------|---------------------------------------|--|
| 1 d | 3333 4533 | 27 | 3233 4433 | 25 | 3333 3533 | 26 | 2012 1322 | 13·4 |
| 2 | 3232 3333 | 22 | 3232 3233 | 21 | 3122 2331 | 17 | 2100 0112 | 13·5 |
| 3 d | 2233 2433 | 22 | 2233 2433 | 22 | 2232 2422 | 19 | 0010 2211 | 13·6 |
| 4 | 2220 0042 | 12 | 2220 0032 | 11 | 2220 0042 | 12 | 0000 0010 | 13·5 |
| 5 | 2122 2332 | 17 | 1122 1232 | 14 | 2111 2331 | 14 | 0000 0010 | 13·5 |
| 6 | 2111 1232 | 13 | 1111 1222 | 11 | 2110 1130 | 9 | 0000 0011 | 13·4 |
| 7 | 2100 0024 | 9 | 0100 0024 | 7 | 2100 0022 | 7 | 1000 0003 | 13·4 |
| 8 | 3211 2120 | 12 | 3211 2120 | 12 | 3201 1120 | 10 | 1100 0000 | 13·5 |
| 9 q | 1111 0001 | 5 | 1100 0001 | 3 | 1111 0000 | 4 | 0000 0000 | 13·5 |
| 10 | 0122 2222 | 13 | 0122 2222 | 12 | 0122 2021 | 10 | 0000 0011 | 13·5 |
| 11 | 2213 0100 | 9 | 2213 0100 | 9 | 1211 0000 | 5 | 0100 0000 | 13·5 |
| 12 | 1211 1231 | 12 | 1111 1231 | 11 | 1211 1130 | 10 | 1000 0120 | 13·5 |
| 13 | 2113 1123 | 14 | 1013 1123 | 12 | 2111 1022 | 10 | 0000 0000 | 13·5 |
| 14 q | 1000 0001 | 2 | 1000 0001 | 2 | 1000 0001 | 2 | 0000 0000 | 13·5 |
| 15 | 2011 1122 | 10 | 1011 1121 | 8 | 2001 1112 | 8 | 0000 0000 | 13·5 |
| 16 | 2111 1111 | 9 | 1111 1111 | 8 | 2111 1001 | 7 | 0000 0000 | 13·5 |
| 17 | 2220 0332 | 14 | 2220 0332 | 14 | 2210 0231 | 11 | 1000 0021 | 13·5 |
| 18 | 0002 2434 | 15 | 0002 2433 | 14 | 0001 2434 | 14 | 0000 0222 | 13·5 |
| 19 | 3321 2223 | 18 | 3321 2223 | 18 | 3321 2122 | 16 | 1000 0001 | 13·5 |
| 20 | 3111 2123 | 14 | 3111 2123 | 13 | 3101 2022 | 11 | 2000 0011 | 13·5 |
| 21 | 1121 1113 | 11 | 1121 1112 | 10 | 1111 1003 | 8 | 0000 0001 | 13·5 |
| 22 q | 2101 1001 | 6 | 2001 0001 | 4 | 2101 1000 | 5 | 0000 0000 | 13·5 |
| 23 q | 2000 0102 | 5 | 1000 0101 | 3 | 2000 0002 | 4 | 0000 0000 | 13·5 |
| 24 | 1312 1011 | 10 | 1311 0010 | 7 | 1212 1011 | 9 | 0100 0000 | 13·4 |
| 25 q | 1101 2111 | 8 | 0000 2111 | 5 | 1101 1111 | 7 | 0000 0000 | 13·5 |
| 26 | 3322 2210 | 15 | 3322 2210 | 15 | 3212 2210 | 13 | 1000 0000 | 13·5 |
| 27 | 0110 1231 | 9 | 0110 1131 | 8 | 0110 0230 | 7 | 0000 0011 | 13·5 |
| 28 d | 2112 2453 | 20 | 1112 2453 | 19 | 2011 2443 | 17 | 1000 1331 | 13·4 |
| 29 d | 5222 2321 | 19 | 3222 2321 | 17 | 5221 1321 | 17 | 2000 1100 | 13·5 |
| 30 d | 2243 3434 | 25 | 2243 2433 | 23 | 2233 3434 | 24 | 0011 2212 | 13·3 |
| | | | | | | | Mean | 0·57 |
| | | | | | | | | 13·5 |

q denotes an international quiet day and d an international disturbed day.

K_H For horizontal component. K_D For declination. K_Z For vertical component. (See Introduction).

GEOMAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, +GMT

19 ESKDALEMUIR (H)

16,000γ (0.16 CGS unit) +

DECEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 21,000γ+ |
|-----------------|------|-----|-----|-----|-----|------|------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------------------|
| 1 | | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 2 | 928 | 940 | 948 | 939 | 925 | 936 | 937 | 927 | 920 | 922 | 917 | 919 | 920 | 909 | 919 | 923 | 931 | 931 | 936 | 951 | 924 | 928 | 936 | 929 | 929 | 1288 | | |
| 3 q | 940 | 942 | 935 | 936 | 940 | 941 | 942 | 941 | 937 | 938 | 936 | 935 | 936 | 939 | 939 | 932 | 936 | 937 | 933 | 936 | 935 | 934 | 935 | 940 | 937 | 937 | 1495 | |
| 4 | 939 | 939 | 940 | 943 | 944 | 947 | 949 | 948 | 945 | 941 | 929 | 931 | 935 | 936 | 939 | 940 | 944 | 946 | 945 | 945 | 946 | 945 | 940 | 942 | 942 | 942 | 1598 | |
| 5 d | 941 | 948 | 946 | 948 | 952 | 960 | 962 | 936 | 966 | 952 | 951 | 946 | 928 | 928 | 929 | 922 | 933 | 928 | 926 | 920 | 931 | 927 | 926 | 938 | 939 | 939 | 1544 | |
| 6 | 924 | 937 | 932 | 925 | 928 | 932 | 939 | 937 | 924 | 927 | 934 | 935 | 932 | 931 | 933 | 937 | 940 | 931 | 898 | 898 | 912 | 918 | 924 | 926 | 926 | 926 | 1227 | |
| 7 | 927 | 937 | 927 | 925 | 924 | 924 | 926 | 926 | 924 | 922 | 921 | 923 | 927 | 931 | 931 | 937 | 935 | 938 | 932 | 937 | 935 | 938 | 937 | 936 | 930 | 930 | 1320 | |
| 8 | 937 | 937 | 934 | 935 | 934 | 937 | 937 | 936 | 934 | 934 | 936 | 935 | 936 | 937 | 937 | 940 | 944 | 945 | 943 | 940 | 943 | 942 | 942 | 942 | 942 | 942 | 1505 | |
| 9 q | 941 | 940 | 938 | 940 | 940 | 942 | 942 | 942 | 939 | 937 | 936 | 937 | 938 | 939 | 942 | 946 | 948 | 946 | 945 | 945 | 949 | 949 | 942 | 942 | 942 | 942 | 1602 | |
| 10 | 939 | 936 | 935 | 938 | 940 | 942 | 942 | 941 | 940 | 940 | 936 | 935 | 935 | 936 | 939 | 942 | 943 | 946 | 948 | 946 | 944 | 944 | 943 | 943 | 941 | 941 | 1582 | |
| 11 q | 944 | 943 | 944 | 945 | 946 | 943 | 944 | 945 | 936 | 935 | 940 | 940 | 942 | 944 | 947 | 949 | 951 | 952 | 949 | 946 | 944 | 948 | 948 | 945 | 945 | 945 | 1670 | |
| 12 q | 944 | 944 | 945 | 946 | 948 | 948 | 947 | 947 | 946 | 944 | 940 | 940 | 942 | 944 | 948 | 949 | 950 | 949 | 948 | 947 | 945 | 945 | 946 | 946 | 946 | 946 | 1700 | |
| 13 d | 949 | 952 | 954 | 944 | 952 | 971 | 954 | 968 | 962 | 948 | 936 | 931 | 933 | 938 | 946 | 948 | 946 | 945 | 945 | 939 | 940 | 944 | 944 | 944 | 944 | 944 | 1654 | |
| 14 d | 937 | 937 | 938 | 930 | 923 | 933 | 933 | 937 | 935 | 944 | 940 | 940 | 953 | 944 | 905 | 908 | 909 | 889 | 903 | 895 | 878 | 904 | 900 | 920 | 920 | 920 | 1087 | |
| 15 | 918 | 917 | 892 | 900 | 902 | 904 | 910 | 909 | 909 | 904 | 908 | 905 | 912 | 920 | 913 | 896 | 910 | 916 | 913 | 915 | 922 | 926 | 910 | 910 | 910 | 850 | | |
| 16 | 933 | 924 | 924 | 928 | 930 | 927 | 930 | 929 | 922 | 916 | 913 | 919 | 924 | 927 | 928 | 933 | 942 | 944 | 937 | 928 | 924 | 925 | 931 | 928 | 928 | 928 | 1262 | |
| 17 | 928 | 923 | 926 | 927 | 933 | 937 | 939 | 943 | 940 | 938 | 933 | 929 | 934 | 940 | 935 | 925 | 927 | 925 | 929 | 931 | 929 | 922 | 944 | 926 | 932 | 932 | 1363 | |
| 18 | 929 | 931 | 931 | 930 | 931 | 931 | 933 | 937 | 931 | 930 | 931 | 935 | 933 | 937 | 938 | 940 | 938 | 938 | 936 | 938 | 935 | 934 | 934 | 934 | 934 | 934 | 1421 | |
| 19 | 934 | 939 | 935 | 933 | 931 | 931 | 931 | 933 | 933 | 932 | 930 | 931 | 935 | 937 | 938 | 937 | 941 | 940 | 934 | 936 | 930 | 934 | 934 | 934 | 934 | 934 | 1423 | |
| 20 | 938 | 937 | 935 | 933 | 933 | 937 | 940 | 940 | 939 | 935 | 932 | 931 | 933 | 934 | 931 | 937 | 942 | 940 | 916 | 912 | 922 | 927 | 933 | 933 | 933 | 933 | 1395 | |
| 21 | 937 | 939 | 934 | 936 | 935 | 927 | 940 | 933 | 932 | 926 | 917 | 924 | 926 | 930 | 933 | 924 | 927 | 926 | 933 | 927 | 924 | 933 | 926 | 932 | 930 | 930 | 1321 | |
| 22 | 933 | 931 | 931 | 933 | 938 | 946 | 946 | 939 | 940 | 939 | 938 | 932 | 937 | 939 | 940 | 932 | 929 | 930 | 920 | 904 | 920 | 917 | 933 | 933 | 933 | 933 | 1389 | |
| 23 | 925 | 927 | 924 | 926 | 933 | 935 | 938 | 941 | 940 | 933 | 928 | 921 | 924 | 929 | 933 | 936 | 928 | 932 | 933 | 944 | 932 | 944 | 932 | 932 | 932 | 932 | 1374 | |
| 24 | 933 | 929 | 935 | 932 | 939 | 945 | 946 | 932 | 925 | 923 | 914 | 921 | 927 | 928 | 929 | 933 | 937 | 931 | 928 | 937 | 931 | 933 | 931 | 931 | 931 | 931 | 1352 | |
| 25 | 940 | 939 | 939 | 942 | 946 | 943 | 940 | 948 | 948 | 935 | 913 | 920 | 927 | 917 | 919 | 928 | 928 | 922 | 937 | 940 | 938 | 934 | 940 | 934 | 934 | 934 | 1411 | |
| 26 d | 931 | 929 | 920 | 926 | 939 | 947 | 952 | 951 | 937 | 932 | 909 | 920 | 919 | 918 | 921 | 885 | 909 | 913 | 940 | 923 | 918 | 944 | 970 | 916 | 928 | 928 | 1269 | |
| 27 d | 913 | 909 | 927 | 928 | 933 | 916 | 936 | 942 | 926 | 910 | 904 | 901 | 905 | 904 | 929 | 925 | 924 | 927 | 922 | 916 | 921 | 960 | 915 | 926 | 922 | 922 | 1119 | |
| 28 | 929 | 932 | 931 | 933 | 935 | 941 | 936 | 927 | 924 | 924 | 920 | 923 | 912 | 911 | 927 | 933 | 920 | 921 | 945 | 925 | 932 | 941 | 943 | 929 | 929 | 929 | 1297 | |
| 29 | 930 | 934 | 935 | 941 | 943 | 941 | 941 | 939 | 934 | 929 | 934 | 933 | 931 | 933 | 935 | 939 | 936 | 938 | 937 | 944 | 944 | 935 | 936 | 936 | 936 | 936 | 1469 | |
| 30 | 939 | 938 | 940 | 942 | 944 | 948 | 949 | 948 | 946 | 939 | 929 | 927 | 926 | 927 | 925 | 922 | 924 | 931 | 937 | 937 | 941 | 943 | 942 | 937 | 937 | 937 | 1481 | |
| 31 q | 942 | 938 | 938 | 941 | 942 | 944 | 944 | 944 | 944 | 940 | 935 | 939 | 934 | 934 | 937 | 942 | 947 | 949 | 949 | 948 | 944 | 939 | 941 | 941 | 941 | 941 | 1584 | |
| Mean | | 935 | 935 | 934 | 934 | 936 | 939 | 940 | 939 | 937 | 933 | 928 | 929 | | 930 | 931 | 932 | 931 | 932 | 933 | 933 | 934 | 932 | 933 | 935 | 935 | 934 | |
| Sum 28,000γ+ | | 968 | 992 | 955 | 961 | 1024 | 1103 | 1146 | 1120 | 1040 | 915 | 777 | 782 | | 826 | 848 | 890 | 874 | 894 | 936 | 931 | 944 | 900 | 919 | 973 | 977 | | Grand Total 694,695 |

951 at 0-1h. 1 January 1967.

20 ESKDALEMUIR (D)

9° +

DECEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 1200·0' |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------------|
| 1 | | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | ' | |
| 2 | 53·0 | 55·1 | 55·8 | 49·8 | 53·9 | 55·5 | 55·1 | 53·8 | 52·7 | 53·9 | 54·6 | 56·9 | 57·5 | 57·0 | 55·2 | 56·9 | 56·8 | 55·6 | 52·8 | 52·3 | 49·8 | 50·0 | 52·5 | 52·8 | 54·1 | 99·6 | | |
| 3 q | 54·9 | 54·2 | 53·6 | 55·1 | 55·0 | 54·3 | 53·5 | 53·8 | 53·8 | 53·9 | 55·1 | 55·6 | 55·8 | 56·3 | 56·4 | 55·9 | 55·6 | 55·6 | 53·8 | 54·4 | 53·8 | 51·0 | 51·9 | 54·4 | 105·5 | | | |
| 4 | 52·4 | 53·9 | 54·9 | 55·0 | 54·9 | 55·0 | 54·6 | 54·5 | 54·1 | 53·8 | 54·7 | 56·2 | 57·1 | 56·9 | 56·6 | 56·4 | 55·7 | 55·5 | 54·4 | 54·4 | 54·4 | 53·9 | 53·7 | 52·3 | 54·9 | 116·8 | | |
| 5 d | 50·6 | 53·6 | 50·5 | 52·3 | 50·7 | 50·5 | 53·5 | 53·5 | 54·9 | 54·9 | 55·0 | 55·9 | 56·5 | 56·3 | 56·3 | 56·3 | 56·3 | 56·3 | 55·7 | 55·7 | 55·7 | 52·5 | 52·5 | 52·5 | 52·5 | 60·9 | | |
| 6 | 51·8 | 51·7 | 52·3 | 55·4 | 53·5 | 53·4 | 53·2 | 53·8 | 53·8 | 54·8 | 55·0 | 55·9 | 56·4 | 56·4 | 56·7 | 56·2 | 55·5 | 55·9 | 55·5 | 56·2 | 55·4 | 54·3 | 54·3 | 54·3 | 54·3 | 107·5 | | |
| 7 | 53·9 | 53·8 | 53·9 | 53·9 | 54·1 | 53·5 | 53·8 | 53·6 | 53·9 | 54·6 | 56·0 | 56·7 | 56·8 | 56·8 | 56·7 | 56·7 | 55·9 | 55·6 | 55·3 | 54·4 | 54·5 | 53·5 | 53·0 | 52·6 | 53·8 | 109·8 | | |
| 8 | 54·2 | 54·0 | 53·8 | 53·9 | 53·6 | 53·8 | 53·8 | 53·8 | 53·8 | | | | | | | | | | | | | | | | | | | |

GEOMAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes ending at exact hours, GMT

21 ESKDALEMUIR (Z)

45,000γ (0.45 CGS unit) +

DECEMBER 1966

| | μ ₀ - 0-1 | GMT 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | Sum 11,000γ+ | |
|-----------------|-------------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------------------------|-----|
| 1 | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| 2 | 470 | 464 | 455 | 459 | 460 | 454 | 459 | 467 | 470 | 467 | 468 | 468 | 470 | 478 | 483 | 482 | 482 | 481 | 484 | 476 | 474 | 475 | 471 | 471 | 471 | 471 | 300 |
| 3 q | 469 | 465 | 465 | 468 | 469 | 471 | 471 | 469 | 467 | 465 | 465 | 465 | 466 | 468 | 472 | 477 | 477 | 477 | 479 | 478 | 477 | 477 | 475 | 471 | 471 | 471 | 303 |
| 4 | 469 | 469 | 468 | 469 | 469 | 469 | 468 | 468 | 465 | 465 | 465 | 464 | 464 | 467 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 253 | |
| 5 d | 467 | 465 | 465 | 465 | 465 | 465 | 465 | 463 | 450 | 451 | 455 | 459 | 461 | 465 | 471 | 476 | 477 | 483 | 487 | 493 | 491 | 485 | 474 | 466 | 469 | 264 | |
| 6 | 471 | 467 | 465 | 468 | 471 | 468 | 467 | 467 | 469 | 467 | 466 | 467 | 468 | 471 | 475 | 476 | 478 | 481 | 500 | 501 | 495 | 496 | 491 | 485 | 476 | 430 | |
| 7 | 479 | 472 | 468 | 468 | 474 | 476 | 477 | 477 | 476 | 474 | 475 | 475 | 477 | 475 | 476 | 476 | 476 | 476 | 476 | 479 | 478 | 476 | 477 | 477 | 442 | | |
| 8 | 476 | 475 | 474 | 472 | 473 | 474 | 474 | 474 | 472 | 469 | 466 | 468 | 472 | 475 | 476 | 476 | 476 | 476 | 476 | 476 | 475 | 475 | 474 | 474 | 474 | 372 | |
| 9 q | 472 | 472 | 471 | 471 | 471 | 471 | 469 | 468 | 465 | 465 | 465 | 467 | 468 | 471 | 471 | 472 | 472 | 473 | 473 | 474 | 476 | 471 | 471 | 471 | 471 | 304 | |
| 10 | 468 | 470 | 471 | 471 | 471 | 470 | 470 | 469 | 468 | 465 | 465 | 465 | 466 | 468 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 256 | |
| 11 q | 471 | 471 | 471 | 470 | 468 | 467 | 466 | 467 | 467 | 468 | 466 | 465 | 465 | 468 | 472 | 472 | 472 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 263 | |
| 12 q | 471 | 471 | 469 | 467 | 466 | 466 | 465 | 465 | 465 | 465 | 465 | 462 | 460 | 462 | 467 | 471 | 471 | 470 | 470 | 470 | 470 | 470 | 469 | 468 | 425 | | |
| 13 d | 470 | 467 | 465 | 465 | 460 | 453 | 455 | 449 | 448 | 453 | 454 | 456 | 459 | 460 | 466 | 474 | 478 | 482 | 480 | 478 | 476 | 474 | 472 | 465 | 171 | | |
| 14 d | 472 | 472 | 471 | 472 | 471 | 471 | 468 | 466 | 465 | 465 | 464 | 464 | 470 | 501 | 586 | 616 | 639 | 547 | 483 | 493 | 486 | 443 | 495 | 873 | 873 | | |
| 15 | 419 | 419 | 437 | 457 | 466 | 467 | 478 | 480 | 482 | 481 | 478 | 477 | 478 | 481 | 483 | 485 | 489 | 499 | 492 | 485 | 487 | 479 | 475 | 473 | 361 | | |
| 16 | 469 | 471 | 474 | 476 | 477 | 477 | 476 | 476 | 475 | 474 | 474 | 474 | 477 | 475 | 478 | 480 | 483 | 480 | 479 | 480 | 483 | 487 | 485 | 479 | 477 | 460 | |
| 17 | 480 | 479 | 478 | 477 | 477 | 478 | 476 | 474 | 472 | 470 | 470 | 465 | 465 | 468 | 473 | 479 | 482 | 484 | 485 | 486 | 491 | 482 | 475 | 477 | 451 | | |
| 18 | 475 | 475 | 476 | 476 | 476 | 474 | 473 | 472 | 474 | 471 | 469 | 471 | 472 | 474 | 477 | 478 | 478 | 479 | 480 | 482 | 479 | 478 | 475 | 408 | | | |
| 19 | 478 | 476 | 476 | 476 | 476 | 475 | 475 | 474 | 472 | 470 | 470 | 471 | 472 | 474 | 476 | 477 | 476 | 476 | 478 | 478 | 479 | 477 | 475 | 406 | | | |
| 20 | 476 | 476 | 475 | 475 | 475 | 474 | 474 | 474 | 474 | 473 | 472 | 473 | 475 | 476 | 476 | 480 | 480 | 478 | 478 | 483 | 482 | 481 | 480 | 477 | 443 | | |
| 21 | 472 | 466 | 468 | 470 | 471 | 471 | 468 | 472 | 472 | 472 | 471 | 474 | 474 | 478 | 480 | 486 | 486 | 486 | 486 | 491 | 494 | 490 | 487 | 483 | 478 | 466 | |
| 22 | 479 | 477 | 476 | 475 | 472 | 471 | 469 | 466 | 468 | 468 | 474 | 474 | 475 | 476 | 476 | 477 | 479 | 482 | 482 | 483 | 486 | 478 | 477 | 476 | 415 | | |
| 23 | 475 | 476 | 475 | 476 | 475 | 475 | 474 | 472 | 471 | 470 | 471 | 471 | 472 | 476 | 478 | 482 | 483 | 483 | 483 | 482 | 480 | 475 | 475 | 476 | 434 | | |
| 24 | 473 | 468 | 467 | 470 | 471 | 471 | 469 | 469 | 472 | 475 | 477 | 480 | 481 | 482 | 482 | 481 | 481 | 482 | 483 | 484 | 483 | 481 | 479 | 476 | 437 | | |
| 25 | 474 | 469 | 468 | 471 | 471 | 471 | 470 | 471 | 472 | 472 | 475 | 474 | 478 | 484 | 487 | 488 | 484 | 484 | 480 | 481 | 479 | 478 | 477 | 444 | | | |
| 26 d | 466 | 457 | 455 | 464 | 469 | 470 | 469 | 467 | 468 | 468 | 476 | 479 | 485 | 487 | 490 | 514 | 514 | 506 | 498 | 499 | 489 | 489 | 478 | 444 | 477 | 448 | |
| 27 d | 453 | 452 | 444 | 457 | 463 | 459 | 460 | 467 | 470 | 475 | 478 | 482 | 489 | 504 | 497 | 493 | 493 | 504 | 499 | 495 | 492 | 468 | 460 | 469 | 476 | 423 | |
| 28 | 469 | 465 | 471 | 474 | 475 | 475 | 474 | 474 | 474 | 475 | 475 | 481 | 487 | 500 | 493 | 487 | 489 | 491 | 486 | 483 | 482 | 476 | 465 | 479 | 493 | | |
| 29 | 471 | 473 | 475 | 474 | 474 | 474 | 474 | 474 | 472 | 471 | 469 | 468 | 471 | 474 | 472 | 476 | 480 | 480 | 480 | 478 | 478 | 475 | 475 | 475 | 396 | | |
| 30 | 475 | 475 | 475 | 475 | 474 | 472 | 471 | 471 | 472 | 469 | 468 | 471 | 474 | 480 | 487 | 493 | 486 | 482 | 480 | 479 | 479 | 475 | 474 | 476 | 432 | | |
| 31 q | 474 | 475 | 475 | 476 | 476 | 475 | 473 | 472 | 471 | 471 | 468 | 471 | 472 | 476 | 478 | 478 | 476 | 477 | 476 | 475 | 473 | 473 | 474 | 474 | 378 | | |
| Mean | 470 | 468 | 468 | 470 | 471 | 470 | 470 | 469 | 469 | 469 | 469 | 471 | 474 | 478 | 483 | 485 | 487 | 484 | 482 | 481 | 480 | 476 | 472 | 475 | | | |
| Sum 14,000γ+ | 574 | 520 | 518 | 574 | 600 | 580 | 579 | 574 | 555 | 546 | 538 | 541 | 602 | 693 | 823 | 989 | 1040 | 1082 | 991 | 951 | 898 | 872 | 748 | 638 | | Grand Total 353,026 | |

475 at 0-1h. 1 January 1967.

GEOMAGNETIC CHARACTER FIGURES (K, K_H, K_D, K_Z, AND C) AND TEMPERATURE IN MAGNETOGRAPH CHAMBER

22 ESKDALEMUIR

DECEMBER 1966

| | 3-h range indices K | Sum of K indices | 3-h range indices K _H | Sum of K _H indices | 3-h range indices K _D | Sum of K _D indices | 3-h range indices K _Z | Sum of K _Z indices | Geomagnetic character of day, C (0-2) | Temperature in magneto- graph chamber °C | | | | |
|------|---------------------------|------------------------|--|-------------------------------------|--|-------------------------------------|--|-------------------------------------|--|---|------|----|------|------|
| 1 | 3322 | 2242 | 20 | 3322 | 2242 | 20 | 2110 | 1020 | 7 | 13.5 | | | | |
| 2 | 2111 | 1113 | 11 | 1110 | 1112 | 8 | 2101 | 0013 | 1 | 13.3 | | | | |
| 3 q | 2111 | 0002 | 7 | 1111 | 0002 | 6 | 2000 | 0002 | 0 | 13.4 | | | | |
| 4 | 2243 | 3233 | 22 | 1243 | 3233 | 21 | 2033 | 3233 | 19 | 0021 | 1112 | 8 | 13.4 | |
| 5 d | 3332 | 1343 | 22 | 3332 | 1333 | 21 | 3321 | 1343 | 20 | 1100 | 0212 | 7 | 13.5 | |
| 6 | 3221 | 1111 | 12 | 2121 | 1111 | 10 | 3211 | 0011 | 9 | 2100 | 0000 | 3 | 13.5 | |
| 7 | 0111 | 0011 | 5 | 0001 | 0011 | 3 | 0111 | 0011 | 5 | 0000 | 0000 | 0 | 13.5 | |
| 8 | 0000 | 0103 | 4 | 0000 | 0103 | 4 | 0000 | 0002 | 2 | 0000 | 0000 | 0 | 13.5 | |
| 9 q | 2000 | 0000 | 2 | 1000 | 0000 | 1 | 2000 | 0000 | 0 | 0000 | 0000 | 0 | 13.5 | |
| 10 | 0011 | 0021 | 5 | 0011 | 0021 | 5 | 0000 | 0020 | 2 | 0000 | 0000 | 0 | 13.3 | |
| 11 q | 1100 | 1011 | 5 | 1100 | 1011 | 5 | 0100 | 0000 | 1 | 0000 | 0000 | 0 | 13.0 | |
| 12 q | 0000 | 0011 | 2 | 0000 | 0001 | 1 | 0000 | 0010 | 1 | 0000 | 0000 | 0 | 13.2 | |
| 13 d | 2332 | 3522 | 22 | 2332 | 3521 | 21 | 2232 | 3322 | 19 | 0110 | 1200 | 5 | 13.3 | |
| 14 d | 1322 | 4655 | 28 | 1312 | 4644 | 25 | 1322 | 4655 | 28 | 0000 | 4644 | 18 | 2 | 13.4 |
| 15 | 4213 | 2122 | 20 | 3213 | 2412 | 18 | 4213 | 2421 | 19 | 3200 | 2111 | 9 | 1 | 13.4 |
| 16 | 2111 | 2232 | 14 | 2111 | 2232 | 14 | 1001 | 2112 | 8 | 0000 | 0011 | 2 | 1 | 13.4 |
| 17 | 2111 | 2224 | 15 | 2111 | 2114 | 12 | 2100 | 1224 | 12 | 0000 | 0102 | 3 | 1 | 13.4 |
| 18 | 1111 | 1111 | 8 | 1011 | 1111 | 7 | 1111 | 1011 | 7 | 0000 | 0000 | 0 | 0 | 13.2 |
| 19 | 1010 | 0022 | 6 | 1010 | 0012 | 5 | 1010 | 0022 | 6 | 0000 | 0000 | 0 | 0 | 12.9 |
| 20 | 0000 | 224 | | | | | | | | | | | | |

MEAN MONTHLY AND ANNUAL VALUES OF GEOMAGNETIC ELEMENTS
For all, a, quiet, q, and disturbed, d, days for H , D and Z and for all days for X , $-Y$, I and F

23 ESKDALEMUIR

| 1966 | | | | | | | | | |
|-------|------------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|----------|----------|
| | Horizontal (H) component | Declination (D) (west) | Vertical (Z) component | North component (X) all days | West component (- Y) all days | Inclination (I) (north) all days | Total force (F) all days | | |
| | a 16,000y + | a q d | a q d | a q d | a q d | γ | γ | γ | γ |
| | | | | 45,000y + | 45,000y + | | | | |
| Jan. | 922 | 925 | 915 | ' | ' | 450 | 449 | 453 | 2931 |
| Feb. | 923 | 926 | 916 | 58.6 | 58.7 | 450 | 449 | 451 | 2931 |
| Mar. | 920 | 921 | 907 | 58.4 | 58.5 | 450 | 454 | 461 | 2928 |
| Apr. | 927 | 930 | 922 | 58.0 | 58.1 | 57.7 | 453 | 451 | 2928 |
| May | 929 | 935 | 927 | 57.7 | 57.8 | 57.6 | 455 | 452 | 2926 |
| June | 935 | 936 | 931 | 57.1 | 57.4 | 56.7 | 455 | 452 | 2925 |
| July | 934 | 934 | 924 | 56.7 | 57.0 | 56.5 | 458 | 459 | 2923 |
| Aug. | 935 | 936 | 927 | 56.3 | 56.4 | 56.5 | 457 | 458 | 2920 |
| Sept. | 919 | 925 | 893 | 55.7 | 56.0 | 54.8 | 460 | 461 | 2912 |
| Oct. | 929 | 934 | 918 | 54.6 | 54.7 | 53.2 | 468 | 472 | 16680 |
| Nov. | 934 | 941 | 925 | 55.0 | 55.2 | 55.3 | 470 | 467 | 16681 |
| Dec. | 934 | 943 | 928 | 54.7 | 54.4 | 54.4 | 472 | 470 | 16676 |
| | | | | 54.3 | 54.7 | 53.8 | 474 | 478 | 16682 |
| Year | 928 | 932 | 919 | 56.4 | 56.6 | 56.1 | 460 | 459 | 16674 |
| | | | | | | | 2922 | | 2913 |
| | | | | | | | | 69 34.5 | 48510 |

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF GEOMAGNETIC FORCE

ALL DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

24 ESKDALEMUIR

1966

| | Hour GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 |
|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| NORTH COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | γ |
| Feb. | +0.7 | -1.5 | -0.5 | +0.1 | +2.9 | +4.8 | +5.9 | +5.9 | +4.8 | +1.3 | -2.3 | -3.2 | -2.9 | -2.4 | -4.2 | -3.8 | -3.5 | -3.0 | -1.7 | -1.5 | +0.6 | +1.6 | +1.4 | +0.6 | +0.6 |
| Mar. | +1.9 | +1.9 | +2.0 | +2.2 | +4.1 | +5.2 | +5.7 | +4.5 | +3.4 | -2.0 | -4.9 | -6.9 | -8.5 | -7.2 | -5.3 | -2.4 | -2.6 | -1.4 | +0.6 | +1.6 | +3.2 | +1.6 | +1.5 | +2.0 | +2.0 |
| Apr. | +3.2 | +5.3 | +5.3 | +7.0 | +7.7 | +8.3 | +6.9 | +4.6 | -0.9 | -10.6 | -17.1 | -20.0 | -17.3 | -12.3 | -6.7 | -0.3 | +3.0 | +2.4 | +3.9 | +5.4 | +4.9 | +4.7 | +7.0 | +5.5 | +5.5 |
| May | +9.6 | +8.5 | +7.5 | +6.5 | +6.6 | +8.6 | +9.0 | +5.7 | -1.7 | -12.5 | -22.1 | -26.3 | -26.5 | -21.0 | -12.5 | -4.1 | +1.8 | +7.9 | +10.3 | +9.9 | +9.2 | +9.5 | +8.4 | +7.7 | +7.7 |
| June | +7.4 | +6.9 | +4.6 | +5.4 | +7.6 | +7.3 | +2.6 | -3.0 | -10.5 | -19.6 | -27.7 | -28.3 | -26.1 | -18.4 | -10.1 | +1.1 | +10.7 | +16.3 | +22.0 | +18.4 | +13.5 | +7.0 | +6.1 | +6.6 | +6.6 |
| July | +7.0 | +4.6 | +4.0 | +4.9 | +6.9 | +7.4 | +2.4 | -4.1 | -11.9 | -21.5 | -28.7 | -30.2 | -24.2 | -17.2 | -8.8 | -0.1 | +8.8 | +17.6 | +22.8 | +20.2 | +15.7 | +9.5 | +8.3 | +6.8 | +6.8 |
| Aug. | +7.3 | +6.6 | +5.3 | +6.1 | +4.3 | +3.8 | -2.3 | -7.6 | -15.6 | -22.6 | -26.9 | -28.7 | -21.7 | -14.8 | -7.0 | +2.1 | +9.0 | +16.9 | +18.7 | +18.5 | +15.5 | +12.7 | +12.4 | +8.1 | +8.1 |
| Sept. | +8.6 | +5.9 | +6.2 | +6.7 | +6.8 | +5.7 | +1.3 | -6.4 | -14.6 | -23.2 | -29.7 | -30.7 | -24.2 | -11.7 | -3.6 | +2.2 | +8.5 | +14.9 | +15.3 | +14.1 | +11.4 | +11.7 | +9.6 | +9.6 | +9.6 |
| Oct. | +1.6 | -8.4 | -2.4 | +6.3 | +7.3 | +5.9 | -3.7 | -6.9 | -17.4 | -25.8 | -28.5 | -21.6 | -13.0 | -6.7 | +0.1 | +8.3 | +12.5 | +15.0 | +18.4 | +13.6 | +13.5 | +11.8 | +4.9 | +13.0 | +13.0 |
| Nov. | +4.3 | +3.6 | +3.1 | +4.7 | +6.3 | +8.8 | +7.7 | +6.3 | +2.4 | -5.2 | -13.7 | -15.1 | -13.8 | -11.3 | -6.7 | -4.1 | -0.5 | +1.2 | +0.5 | +0.7 | +3.4 | +5.7 | +6.3 | +5.2 | +5.2 |
| Dec. | +2.2 | +2.6 | +0.9 | +0.6 | +2.9 | +5.1 | +6.3 | +5.3 | +2.9 | -1.2 | -5.8 | -6.7 | -5.8 | -5.6 | -4.1 | -4.3 | -3.2 | -0.9 | +0.1 | +1.2 | +0.1 | +1.6 | +3.1 | +2.9 | +2.9 |
| Year | +5.3 | +3.6 | +3.6 | +4.8 | +5.9 | +6.6 | +4.3 | +0.7 | -5.0 | -12.9 | -18.9 | -20.2 | -17.1 | -12.0 | -6.5 | -1.0 | +3.6 | +7.4 | +9.7 | +9.3 | +8.5 | +6.9 | +6.7 | +6.5 | +6.5 |
| Winter | +2.3 | +1.7 | +1.3 | +1.9 | +4.0 | +6.0 | +6.4 | +5.5 | +3.4 | -1.8 | -6.7 | -8.0 | -7.8 | -6.7 | -5.1 | -3.7 | -2.5 | -1.0 | -0.1 | +0.5 | +1.8 | +2.6 | +3.1 | +2.7 | +2.7 |
| Equinox | +6.1 | +3.3 | +4.5 | +6.5 | +7.5 | +7.8 | +5.4 | +2.0 | -5.3 | -15.3 | -21.8 | -22.9 | -19.6 | -14.0 | -7.2 | -0.7 | +4.1 | +7.0 | +9.7 | +9.1 | +8.9 | +8.1 | +7.6 | +9.3 | +9.3 |
| Summer | +7.6 | +6.0 | +5.0 | +5.7 | +6.5 | +6.1 | +1.0 | -5.3 | -13.1 | -21.7 | -28.2 | -29.5 | -24.0 | -15.5 | -7.3 | +1.3 | +9.2 | +16.5 | +19.6 | +18.1 | +14.7 | +10.2 | +9.6 | +7.8 | +7.8 |
| WEST COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | γ |
| Feb. | -7.5 | -4.4 | -1.7 | -1.7 | -1.3 | -0.8 | +0.2 | +0.5 | -0.7 | -0.6 | +2.1 | +5.9 | +9.5 | +12.5 | +9.1 | +8.0 | +4.9 | +2.7 | -0.1 | -1.9 | -9.2 | -7.8 | -9.1 | -8.5 | -8.5 |
| Mar. | -5.0 | -3.0 | -3.3 | -3.4 | -2.3 | -1.6 | -2.7 | -1.0 | -1.8 | -1.8 | +1.1 | +7.3 | +11.7 | +15.8 | +12.8 | +8.1 | +6.9 | +3.9 | +0.1 | -4.8 | -11.3 | -10.5 | -7.9 | -7.3 | -7.3 |
| Apr. | -9.1 | -8.8 | -9.2 | -10.4 | -7.7 | -4.0 | -3.7 | -6.6 | -11.4 | -10.9 | -2.8 | +10.6 | +21.4 | +26.7 | +23.4 | +16.3 | +10.2 | +6.0 | -0.3 | -0.9 | -6.2 | -11.6 | -10.0 | -10.0 | -10.0 |
| May | -5.1 | -7.8 | -7.9 | -9.1 | -8.7 | -9.5 | -12.3 | -18.8 | -22.1 | -19.5 | -9.7 | +5.2 | +20.4 | +30.6 | +30.9 | +25.1 | +17.9 | +11.8 | +4.6 | +1.2 | -0.3 | -5.1 | -5.5 | -5.4 | -5.4 |
| June | -3.4 | -4.4 | -5.4 | -8.1 | -13.9 | -21.1 | -26.9 | -29.1 | -29.1 | -23.3 | -10.3 | +5.5 | +18.9 | +26.5 | +28.9 | +27.7 | +23.4 | +18.2 | +12.8 | +6.7 | +4.6 | +2.3 | -0.1 | -0.6 | -0.6 |
| July | -9.0 | -10.0 | -9.1 | -9.0 | -13.6 | -18.8 | -23.4 | -25.0 | -26.6 | -21.4 | -10.6 | -2.9 | +19.7 | +28.7 | +31.1 | +28.8 | +22.7 | +17.2 | +12.2 | +8.9 | +6.8 | +2.3 | -0.3 | -4.5 | -4.5 |
| Aug. | -8.1 | -5.9 | -6.7 | -10.7 | -13.5 | -19.8 | -25.5 | -27.5 | -26.0 | -19.0 | -4.2 | +12.7 | +26.7 | +35.9 | +35.1 | +27.6 | +18.9 | +14.0 | +6.3 | +5.8 | -0.8 | -2.7 | -4.7 | -7.6 | -7.6 |
| Sept. | -10.5 | -15.9 | -13.0 | -14.0 | -13.8 | -13.5 | -15.8 | -17.3 | -16.5 | -10.4 | +4.7 | +20.5 | +30.8 | +35.6 | +29.6 | +19.7 | +10.7 | +7.3 | +6.0 | +2.8 | -0.3 | -6.0 | -16.1 | -4.8 | -4.8 |
| Oct. | -8.9 | -8.5 | -6.0 | -5.7 | -3.7 | -4.1 | -5.2 | -7.8 | -11.6 | -11.0 | -2.5 | +10.3 | +19.8 | +24.7 | +23.5 | +17.6 | +10.2 | +4.6 | +1.9 | +0.1 | -6.2 | -8.1 | -11.9 | -11.4 | -11.4 |
| Nov. | -10.3 | -6.2 | -5.4 | -3.1 | -0.9 | -0.3 | +0.5 | -0.6 | -3.5 | -5.0 | -1.4 | +6.4 | +13.1 | +15.9 | +14.3 | +10.5 | +8.3 | +5.7 | +2.8 | -1.8 | -4.3 | -12.0 | -12.2 | -10.5 | -10.5 |
| Dec. | -8.5 | -5.9 | -3.4 | -1.1 | -1.3 | +0.4 | +1.3 | +2.8 | +1.1 | +0.5 | +1.9 | +7.6 | +11.2 | +13.4 | +13.1 | +11.3 | +8.3 | +3.4 | -2.8 | -7.3 | -8.7 | -13.5 | -12.9 | -10.9 | -10.9 |
| Year | -7.3 | -7.2 | -6.5 | -7.0 | -7.7 | -9.1 | -11.1 | -12.8 | -14.3 | -11.7 | -3.1 | +8.6 | +18.7 | +24.5 | +23.3 | +18.9 | +13.6 | +9.1 | +4.3 | +1.0 | -2.7 | -6.1 | -8.3 | -7.1 | -7.1 |
| Winter | -7.8 | -4.9 | -3.4 | -2.4 | -1.5 | -0.5 | -0.2 | +0.3 | -1.2 | -1.7 | +0.9 | +6.7 | +11.4 | +14.5 | +12.3 | +9.5 | +7.1 | +3.9 | 0.0 | -3.9 | -8.4 | -11.0 | -10.5 | -9.3 | -9.3 |
| Equinox | -8.4 | -10.2 | -9.0 | -9.8 | -8.5 | -7.8 | -9.2 | -12.6 | -15.4 | -12.9 | -2.6 | +11.7 | +23.1 | +29.4 | +26.8 | +19.7 | +12.3 | +7.4 | +3.1 | +0.8 | -1.9 | -6.3 | -11.5 | -7.9 | -7.9 |
| Summer | -5.9 | -6.6 | -6.9 | -8.9 | -13.1 | -19.1 | -24.1 | -26.1 | -26.4 | -20.3 | -7.7 | +7.4 | +21.7 | +29.8 | +30.9 | +27.4 | +21.6 | +16.1 | +9.8 | +6.2 | +2.2 | -0.9 | -2.9 | -4.3 | -4.3 |
| VERTICAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | γ |
| Feb. | -0.4 | -1.2 | -2.1 | -2.0 | -2.3 | -2.6 | -3.0 | -3.2 | -3.5 | -3.9 | -4.1 | -4.0 | -3.7 | -2.1 | -2.1 | +4.0 | +4.8 | +5.5 | +5.3 | +5.6 | +5.5 | +3.3 | +1.6 | +0.4 | +0.4 |
| Mar. | -0.8 | -1.9 | -2.1 | -1.6 | -2.8 | -3.6 | -3.9 | -3.9 | -3.9 | -3.9 | -4.5 | -5.0 | -4.2 | -2.9 | -1.6 | +1.6 | +7.0 | +7.1 | +6.8 | +7.2 | +6.2 | +3.5 | +1.2 | -1.0 | -1.0 |
| Apr. | -1.5 | -3.3 | -4.3 | -5.5 | -6.4 | -6.3 | -5.2 | -3.7 | -3.6 | -5.4 | -7.8 | -9.5 | -7.7 | -4.4 | -4.2 | +2.1 | +9.4 | +12.8 | +12.6 | +8.0 | +6.6 | +6.2 | +4.0 | +0.1 | +0.1 |
| May | -0.6 | -1.5 | -0.9 | -0.2 | -0.7 | -0.3 | +0.4 | -0.7 | -3.3 | -7.4 | -12.4 | -16.0 | -15.2 | -11.6 | -11.6 | +3.1 | +9.5 | +14.2 | +13.2 | +11.3 | +9.0 | +6.4 | +3.7 | +1.7 | +1.7 |
| June | -1.1 | -0.6 | -1.5 | -0.4 | +0.8 | +1.4 | +1.9 | +1.3 | -1.4 | -5.5 | -10.3 | -15.4 | -15.2 | -10.7 | -4.7 | +0.5 | +4.6 | +8.4 | +11.0 | +12.7 | +10.4 | +7.7 | +4.5 | +1.6 | +1.6 |
| July | -1.6 | -3.5 | -4.3 | -4.6 | -5.0 | -3.9 | -3.3 | -2.4 | -2.6 | -4.9 | -8.3 | -11.7 | -11.3 | -6.5 | -1.7 | +4.1 | +8.2 | +11.0 | +13.0 | +12.9 | +11.2 | +8.9 | +4.5 | +1.8 | +1.8 |
| Aug. | -2.7 | -5.7 | -6.1 | -5.1 | -2.1 | -0.0 | +1.1 | +1.3 | -0.7 | -5.5 | -9.3 | -12.8 | -13.4 | -9.7 | -1.6 | -1.6 | +6.2 | +10.8 | +14.2 | +16.2 | +12.5 | +8.7 | +2.4 | +1.7 | -0.4 |
| Sept. | -16.0 | -19.7 | -16.4 | -15.2 | -10.9 | -9.0 | -4.0 | -1.5 | -1.1 | -3.2 | -5.2 | -6.3 | -2.7 | +3.1 | +9.2 | +18.4 | +24.6 | +24.8 | +22.6 | +18.1 | +11.1 | +2.9 | -10.7 | -12.9 | -12.9 |
| Oct. | -3.3 | -4.4 | -5.2 | -4.9 | -5.1 | -5.1 | -4.3 | -2.6 | -2.0 | -2.8 | -3.0 | -8.1 | -5.6 | -1.1 | +2.8 | +7.2 | +10.2 | +10.2 | +8.2</ | | | | | | |

DIURNAL INEQUALITIES OF THE GEOMAGNETIC ELEMENTS, DECLINATION, INCLINATION, AND HORIZONTAL COMPONENT
ALL DAYS

75

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

25 ESKDALEMUIR

1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| DECLINATION (measured positive towards the west) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -1.53 | -0.83 | -0.32 | -0.35 | -0.35 | -0.33 | -0.17 | -0.10 | -0.31 | -0.17 | +0.49 | +1.28 | +2.00 | +2.59 | +1.98 | +1.73 | +1.10 | +0.65 | +0.04 | -0.32 | -1.87 | -1.62 | -1.86 | -1.73 | | |
| Feb. | -1.06 | -0.67 | -0.73 | -0.76 | -0.61 | -0.50 | -0.74 | -0.36 | -0.48 | -0.29 | +0.40 | +1.71 | +2.64 | +3.42 | +2.75 | +1.70 | +1.48 | +0.83 | -0.01 | -1.02 | -2.38 | -2.16 | -1.63 | -1.53 | | |
| Mar. | -1.93 | -1.94 | -2.02 | -2.33 | -1.81 | -1.10 | -0.99 | -1.49 | -2.25 | -1.81 | +0.04 | +2.82 | +4.89 | +5.77 | +4.92 | +3.27 | +1.93 | +1.12 | -0.19 | -0.38 | -0.35 | -1.41 | -2.57 | -2.19 | | |
| Apr. | -1.36 | -1.85 | -1.84 | -2.04 | -1.97 | -2.21 | -2.78 | -3.97 | -4.37 | -3.46 | -1.16 | +1.97 | +5.02 | +6.85 | +6.61 | +5.17 | +3.52 | +2.09 | +0.56 | -0.10 | -0.38 | -1.35 | -1.59 | -1.36 | | |
| May | -0.87 | -1.45 | -1.42 | -1.72 | -2.57 | -3.58 | -4.20 | -4.49 | -4.37 | -2.81 | -0.17 | +2.65 | +5.25 | +6.25 | +6.04 | +5.06 | +3.83 | +2.44 | +0.85 | +0.03 | -0.82 | -1.33 | -1.51 | -1.09 | | |
| June | -0.92 | -1.04 | -1.22 | -1.79 | -3.03 | -4.48 | -5.46 | -5.67 | -5.41 | -3.91 | -1.06 | +2.16 | +4.64 | +5.91 | +6.10 | +5.55 | +4.39 | +3.02 | +1.76 | +0.63 | +0.37 | +0.31 | -0.31 | -0.31 | | |
| July | -2.06 | -2.23 | -2.00 | -2.02 | -2.87 | -3.90 | -4.60 | -4.73 | -4.78 | -3.49 | -1.17 | +1.59 | +4.71 | +6.25 | +6.47 | +5.69 | +4.23 | +2.85 | +1.78 | +1.12 | +0.82 | +0.02 | -0.49 | -1.19 | | |
| Aug. | -1.93 | -1.39 | -1.56 | -2.38 | -2.95 | -4.17 | -5.15 | -5.28 | -4.70 | -2.99 | +0.20 | +3.62 | +6.18 | +7.60 | +7.14 | +5.45 | +3.49 | +2.28 | +0.73 | +0.62 | -0.66 | -0.94 | -1.35 | -1.86 | | |
| Sept. | -2.15 | -2.88 | -2.52 | -3.02 | -3.02 | -2.90 | -3.10 | -3.22 | -2.69 | -1.18 | +1.94 | +4.86 | +6.61 | +7.36 | +5.92 | +3.66 | +1.71 | +0.93 | +0.55 | +0.09 | -0.53 | -1.61 | -3.39 | -1.42 | | |
| Oct. | -2.13 | -1.97 | -1.47 | -1.37 | -1.03 | -1.10 | -1.30 | -1.72 | -2.29 | -1.77 | +0.18 | +2.90 | +4.72 | +5.50 | +5.04 | +3.76 | +2.06 | +0.82 | +0.16 | -0.23 | -1.52 | -1.84 | -2.74 | -2.66 | | |
| Nov. | -2.21 | -1.36 | -1.18 | -0.79 | -0.40 | -0.36 | -0.16 | -0.34 | -0.78 | -0.82 | +0.19 | +1.80 | +3.09 | +3.58 | +3.10 | +2.25 | +1.67 | +1.09 | +0.55 | -0.38 | -0.99 | -2.60 | -2.67 | -2.28 | | |
| Dec. | -1.78 | -1.27 | -0.71 | -0.25 | -0.36 | -0.10 | +0.04 | +0.38 | +0.12 | +0.15 | +0.59 | +1.75 | +2.45 | +2.87 | +2.76 | +2.42 | +1.77 | +0.71 | -0.57 | -1.49 | -1.75 | -2.76 | -2.69 | -2.28 | | |
| Year | -1.65 | -1.57 | -1.42 | -1.57 | -1.75 | -2.06 | -2.38 | -2.58 | -2.69 | -1.88 | +0.04 | +2.43 | +4.35 | +5.33 | +4.90 | +3.81 | +2.60 | +1.57 | +0.52 | -0.12 | -0.84 | -1.46 | -1.90 | -1.66 | | |
| Winter | -1.65 | -1.03 | -0.73 | -0.54 | -0.43 | -0.32 | -0.26 | -0.13 | -0.36 | -0.28 | +0.42 | +1.63 | +2.55 | +3.14 | +2.65 | +2.03 | +1.51 | +0.82 | 0.00 | -0.80 | -1.75 | -2.29 | -2.21 | -1.95 | | |
| Equinox | -1.89 | -2.16 | -1.96 | -2.19 | -1.96 | -1.83 | -2.04 | -2.60 | -2.90 | -2.05 | +0.25 | +3.14 | +5.31 | +6.37 | +5.62 | +3.97 | +2.31 | +1.24 | +0.27 | -0.15 | -0.69 | -1.55 | -2.57 | -1.91 | | |
| Summer | -1.45 | -1.53 | -1.55 | -1.98 | -2.85 | -4.03 | -4.85 | -5.04 | -4.81 | -3.30 | -0.55 | +2.51 | +5.19 | +6.50 | +6.44 | +5.44 | +3.99 | +2.65 | +1.28 | +0.60 | -0.07 | -0.53 | -0.91 | -1.13 | | |
| INCLINATION | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +0.03 | +0.12 | 0.00 | -0.04 | -0.23 | -0.37 | -0.46 | -0.47 | -0.39 | -0.18 | +0.03 | +0.04 | -0.01 | -0.04 | +0.23 | +0.26 | +0.29 | +0.30 | +0.24 | +0.26 | +0.20 | +0.07 | +0.05 | +0.07 | | |
| Feb. | -0.09 | -0.13 | -0.15 | -0.15 | -0.31 | -0.41 | -0.24 | -0.38 | -0.29 | +0.06 | +0.19 | +0.24 | +0.32 | +0.22 | +0.24 | +0.20 | +0.27 | +0.22 | +0.13 | +0.13 | +0.07 | -0.10 | +0.02 | -0.07 | | |
| Mar. | -0.14 | -0.33 | -0.35 | -0.47 | -0.57 | -0.65 | -0.54 | -0.32 | +0.10 | +0.68 | +0.96 | +0.95 | +0.69 | +0.39 | +0.23 | +0.07 | -0.00 | +0.09 | +0.06 | -0.15 | -0.15 | -0.09 | -0.23 | -0.24 | | |
| Apr. | -0.56 | -0.48 | -0.45 | -0.37 | -0.37 | -0.49 | -0.46 | -0.16 | +0.32 | +0.91 | +1.33 | +1.32 | +1.13 | +0.74 | +0.36 | +0.06 | -0.12 | -0.35 | -0.40 | -0.39 | -0.38 | -0.41 | -0.39 | -0.40 | | |
| May | -0.47 | -0.42 | -0.25 | -0.27 | -0.38 | -0.29 | +0.08 | +0.44 | +0.87 | +1.30 | +1.57 | +1.37 | +1.09 | +0.63 | +0.25 | -0.31 | -0.71 | -0.89 | -1.15 | -0.95 | -0.62 | -0.21 | -0.27 | -0.40 | | |
| June | -0.45 | -0.27 | -0.24 | -0.27 | -0.20 | +0.20 | +0.63 | +1.07 | +1.54 | +1.74 | +1.53 | +0.99 | +0.56 | +0.13 | -0.30 | -0.71 | -1.15 | -1.37 | -1.09 | -0.82 | -0.46 | -0.43 | -0.40 | | | |
| July | -0.41 | -0.41 | -0.35 | -0.41 | -0.25 | -0.13 | +0.34 | +0.73 | +1.26 | +1.61 | +1.67 | +1.56 | +0.92 | +0.48 | +0.06 | -0.36 | -0.65 | -1.03 | -1.04 | -1.00 | -0.82 | -0.64 | -0.70 | -0.43 | | |
| Aug. | -0.54 | -0.46 | -0.48 | -0.45 | -0.34 | -0.15 | +0.23 | +0.77 | +1.24 | +1.60 | +1.76 | +1.54 | +0.94 | +0.11 | -0.21 | -0.31 | -0.51 | -0.78 | -0.65 | -0.76 | -0.70 | -0.66 | -0.67 | -0.55 | | |
| Sept. | -0.38 | +0.24 | -0.10 | -0.63 | -0.59 | -0.45 | +0.19 | +0.61 | +1.30 | +1.73 | +1.69 | +1.02 | +0.43 | +0.10 | -0.12 | -0.32 | -0.33 | -0.45 | -0.72 | -0.48 | -0.60 | -0.63 | -0.40 | -1.12 | | |
| Oct. | -0.64 | -0.51 | -0.55 | -0.47 | -0.62 | -0.60 | -0.52 | -0.28 | +0.16 | +0.85 | +1.25 | +1.23 | +1.04 | +0.74 | +0.45 | +0.41 | +0.19 | +0.01 | -0.23 | -0.34 | -0.28 | -0.17 | -0.46 | -0.65 | | |
| Nov. | -0.25 | -0.30 | -0.27 | -0.39 | -0.52 | -0.70 | -0.62 | -0.50 | -0.19 | +0.33 | +0.82 | +0.82 | +0.69 | +0.56 | +0.35 | +0.29 | +0.10 | +0.04 | +0.14 | +0.19 | -0.01 | -0.11 | -0.22 | -0.24 | | |
| Dec. | -0.15 | -0.25 | -0.17 | -0.14 | -0.26 | -0.44 | -0.53 | -0.49 | -0.33 | -0.06 | +0.22 | +0.22 | +0.17 | +0.17 | +0.20 | +0.21 | +0.21 | +0.37 | +0.32 | +0.25 | +0.20 | +0.24 | +0.18 | -0.02 | -0.12 | |
| Year | -0.34 | -0.26 | -0.27 | -0.34 | -0.39 | -0.41 | -0.21 | +0.05 | +0.43 | +0.86 | +1.11 | +0.99 | +0.70 | +0.39 | +0.18 | 0.00 | -0.15 | -0.30 | -0.39 | -0.37 | -0.33 | -0.25 | -0.31 | -0.38 | | |
| Winter | -0.12 | -0.14 | -0.14 | -0.18 | -0.33 | -0.48 | -0.51 | -0.46 | -0.30 | +0.04 | +0.32 | +0.33 | +0.29 | +0.24 | +0.26 | +0.28 | +0.26 | +0.22 | +0.19 | +0.19 | +0.13 | +0.06 | -0.04 | -0.09 | | |
| Equinox | -0.43 | -0.27 | -0.37 | -0.48 | -0.54 | -0.55 | -0.33 | -0.03 | +0.47 | +1.05 | +1.30 | +1.13 | +0.83 | +0.49 | +0.23 | +0.06 | -0.07 | -0.17 | -0.32 | -0.33 | -0.35 | -0.32 | -0.37 | -0.60 | | |
| Summer | -0.47 | -0.39 | -0.33 | -0.34 | -0.31 | -0.20 | +0.21 | +0.64 | +1.11 | +1.51 | +1.68 | +1.50 | +0.98 | +0.44 | +0.05 | -0.32 | -0.65 | -0.97 | -1.05 | -0.95 | -0.74 | -0.49 | -0.52 | -0.44 | | |
| HORIZONTAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -0.6 | -2.2 | -0.8 | -0.2 | +2.6 | +4.6 | +5.8 | +5.9 | +4.6 | +1.2 | -1.9 | -2.1 | -1.2 | -0.2 | -2.6 | -2.4 | -2.6 | -2.5 | -1.7 | -1.8 | -1.0 | -0.2 | -0.2 | -0.9 | | |
| Feb. | +1.0 | +1.3 | +1.4 | +1.6 | +3.6 | +4.8 | +5.2 | +4.3 | +3.0 | -2.3 | -4.6 | -5.5 | -6.4 | -4.4 | -3.0 | -1.0 | -1.4 | -0.7 | +0.6 | +0.7 | +1.2 | -0.2 | +0.1 | +0.7 | | |
| Mar. | +1.6 | +3.7 | +3.6 | +5.1 | +6.2 | +7.5 | +6.2 | +3.4 | -2.9 | -12.3 | -17.3 | -17.9 | -13.3 | -7.5 | -2.6 | +2.5 | +4.7 | +3.4 | +3.8 | +5.2 | +4.7 | +3.6 | +4.9 | +3.7 | | |
| Apr. | +8.6 | +6.0 | +4.8 | +4.8 | +5.0 | +6.8 | +6.7 | +6.2 | -5.5 | -15.7 | -23.4 | -25.0 | -22.6 | -15.4 | -7.0 | -0.3 | -4.9 | +9.8 | +10.9 | +10.0 | +9.0 | +8.5 | +7.2 | +6.7 | | |
| May | +6.8 | +5.8 | +3.4 | +4.0 | +5.5 | +4.3 | +1.0 | -6.9 | -14.4 | -22.3 | -28.3 | -26.5 | -22.0 | -13.3 | -5.0 | +5.5 | +14.2 | +18.7 | +23.1 | +18.7 | +13.0 | +6.0 | +4.9 | +5.8 | | |
| June | +6.3 | +3.8 | +3.0 | +3.4 | +4.4 | +3.6 | -2.3 | -9.0 | -16.7 | -25.2 | -30.0 | -28.8 | -20.6 | -12.4 | -3.7 | +4.7 | +12.4 | +20.5 | +24.7 | +21.1 | +16.2 | +9.8 | +8.2 | +6.6 | | |
| July | +5.6 | +4.8 | +3.6 | +4.4 | +1.9 | +0.5 | -6.3 | -11.8 | -20.0 | -26.0 | -28.3 | -27.8 | -18.0 | -9.6 | -1.5 | +7.0 | +12.8 | +19.6 | +20.5 | +19.8 | +16.5 | +12.9 | +12.2 | +7.2 | | |
| Aug. | +7.1 | +4.8 | +4.9 | +4.8 | +4.4 | +2.2 | -3.1 | -11.1 | -18.9 | -26.1 | -30.0 | -28.0 | -19.2 | -5.3 | +2.5 | +6.9 | +11.7 | +17.1 | +15.8 | +16.1 | +13.8 | +10.8 | +10.7 | +8.1 | | |
| Sept. | -0.2 | -11.0 | -4.6 | +3.8 | +4.8 | +3.5 | -4.4 | -9.8 | -20.0 | -27.2 | -27.3 | -17.7 | -7.5 | -0.4 | +5.2 | +11.6 | +14.2 | +16.0 | +19.2 | +13.9 | +13.2 | +10.6 | +2.1 | +12.0 | | |
| Oct. | +8.4 | +6.1 | +6.4 | +5.3 | +7.4 | +7.2 | +6.3 | +3.3 | -3.1 | -13.9 | -19.8 | | | | | | | | | | | | | | | |

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF GEOMAGNETIC FORCE
INTERNATIONAL QUIET DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

26 ESKDALEMUIR

1966

| | Hour GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 |
|--------------------|----------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NORTH COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -2.4 | γ | -1.8 | -1.9 | -1.6 | +0.1 | +2.1 | +2.7 | +0.3 | -2.2 | -4.1 | -3.3 | -2.7 | -1.4 | +0.6 | 0.0 | -0.3 | +1.0 | +2.2 | +2.9 | +1.8 | +2.0 | +1.8 | +1.5 | γ |
| Feb. | +0.3 | +0.4 | +0.3 | +0.5 | +1.9 | +3.0 | +4.2 | +4.3 | +2.0 | -1.2 | -4.3 | -6.8 | -7.6 | -5.6 | -1.0 | +0.4 | -0.6 | -1.5 | 0.0 | +2.2 | +1.9 | +3.1 | +2.2 | +2.0 | +1.5 |
| Mar. | +0.9 | +2.5 | +1.3 | +1.7 | +2.4 | +4.5 | +4.9 | +4.5 | +0.7 | -7.6 | -13.7 | -18.0 | -15.0 | -8.9 | -3.3 | +0.6 | +2.3 | +2.1 | +4.6 | +6.3 | +6.5 | +7.4 | +6.2 | +7.3 | γ |
| Apr. | +6.0 | +5.7 | +6.2 | +6.1 | +6.5 | +6.6 | +7.1 | +4.7 | -1.7 | -13.9 | -25.5 | -29.6 | -29.0 | -20.8 | -10.6 | +0.1 | +6.2 | +10.3 | +12.9 | +11.9 | +10.6 | +10.6 | +10.3 | +9.3 | γ |
| May | +4.2 | +3.7 | +3.5 | +4.8 | +7.3 | +8.7 | +4.5 | -0.4 | -7.6 | -15.4 | -22.4 | -25.0 | -24.3 | -20.7 | -10.7 | -1.0 | +6.9 | +13.8 | +16.6 | +15.0 | +11.8 | +10.8 | +8.9 | +6.9 | γ |
| June | +5.1 | +4.7 | +3.6 | +4.4 | +6.9 | +8.6 | +5.1 | -0.9 | -8.5 | -20.1 | -30.7 | -34.4 | -30.4 | -22.7 | -13.4 | -2.7 | +7.6 | +15.3 | +21.6 | +21.5 | +18.6 | +14.9 | +14.4 | +11.5 | γ |
| July | +5.2 | +4.0 | +4.4 | +5.8 | +6.6 | +3.5 | +1.3 | -3.6 | -11.2 | -18.5 | -21.9 | -23.4 | -23.0 | -20.0 | -11.9 | -3.5 | +5.4 | +12.1 | +18.2 | +17.7 | +16.9 | +13.9 | +11.7 | +10.3 | γ |
| Aug. | +9.4 | +6.3 | +5.9 | +7.5 | +7.7 | +4.5 | -0.8 | -7.9 | -13.7 | -26.3 | -31.0 | -29.8 | -20.6 | -10.9 | -1.0 | +6.3 | +9.4 | +8.5 | +14.3 | +14.4 | +11.5 | +12.1 | +11.0 | +13.4 | γ |
| Sept. | +8.0 | +4.9 | +6.8 | +4.9 | +4.5 | +0.3 | -3.5 | -9.8 | -19.8 | -24.7 | -26.7 | -17.8 | -8.5 | -1.7 | +2.8 | +2.2 | +3.4 | +7.1 | +8.9 | +12.5 | +11.1 | +12.3 | +10.3 | +12.4 | γ |
| Oct. | +5.4 | +3.9 | +3.5 | +3.7 | +4.5 | +4.8 | +6.2 | +5.4 | +1.7 | -7.1 | -15.6 | -20.5 | -19.3 | -15.3 | -9.2 | -3.7 | +0.1 | +4.0 | +7.1 | +9.0 | +8.5 | +7.3 | +8.3 | +7.3 | γ |
| Nov. | -1.6 | -2.6 | -2.4 | +0.6 | +2.0 | +3.6 | +4.3 | +2.8 | -0.2 | -3.2 | -7.7 | -10.5 | -10.4 | -8.5 | -4.7 | -1.1 | +3.3 | +4.1 | +6.3 | +6.5 | +6.6 | +4.8 | +4.3 | +3.7 | γ |
| Dec. | +0.7 | -2.0 | -2.5 | -0.3 | +1.6 | +3.7 | +3.8 | +2.8 | 0.0 | -2.6 | -6.6 | -8.3 | -6.5 | -4.4 | -2.1 | -1.6 | +0.4 | +2.6 | +3.6 | +4.3 | +4.9 | +4.2 | +2.3 | +2.1 | γ |
| Year | +3.4 | +2.5 | +2.4 | +3.1 | +4.3 | +4.5 | +3.3 | +0.4 | -4.8 | -11.9 | -17.5 | -18.9 | -16.4 | -11.8 | -5.4 | -0.3 | +3.6 | +6.6 | +9.7 | +10.3 | +9.3 | +8.7 | +7.6 | +7.4 | γ |
| Winter | -0.8 | -1.6 | -1.6 | -0.2 | +1.4 | +3.1 | +3.7 | +3.2 | +0.5 | -2.4 | -5.7 | -7.2 | -6.8 | -5.0 | -1.9 | -0.6 | +0.7 | +1.6 | +3.0 | +4.0 | +3.8 | +3.5 | +2.7 | +2.3 | γ |
| Equinox | +5.0 | +4.2 | +4.4 | +4.1 | +4.5 | +4.1 | +3.7 | +1.2 | -4.7 | -13.3 | -20.4 | -21.4 | -18.0 | -11.7 | -5.1 | -0.1 | +3.0 | +5.9 | +8.3 | +9.9 | +9.2 | +9.4 | +8.8 | +9.1 | γ |
| Summer | +6.0 | +4.7 | +3.6 | +5.6 | +7.2 | +6.4 | +2.5 | -3.3 | -10.3 | -20.1 | -28.1 | -24.5 | -18.6 | -9.3 | -0.2 | +7.3 | +12.4 | +17.7 | +17.1 | +14.7 | +12.9 | +11.5 | +10.6 | γ | |
| WEST COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| Feb. | -4.4 | -3.7 | -2.5 | -3.0 | -2.0 | +0.6 | -1.2 | -2.3 | -3.2 | -1.1 | +1.7 | +4.6 | +6.9 | +8.0 | +6.6 | +3.1 | +2.5 | +1.3 | +0.7 | 0.0 | -1.7 | -3.3 | -4.0 | -3.5 | γ |
| Mar. | -4.7 | -3.6 | -3.7 | -4.0 | -4.0 | -4.0 | -4.8 | -4.9 | -4.6 | -1.5 | +2.8 | +8.1 | +12.5 | +9.8 | +4.9 | +3.4 | +2.4 | +2.2 | +2.4 | +0.4 | -1.6 | -1.4 | -2.2 | -2.2 | γ |
| Apr. | -3.9 | -0.7 | -5.3 | -8.3 | -9.0 | -8.8 | -8.0 | -9.2 | -12.3 | -11.5 | -1.6 | +7.9 | +15.8 | +18.6 | +16.4 | +10.6 | +4.3 | +2.5 | +1.7 | +1.3 | +0.9 | +0.1 | -0.5 | -1.0 | γ |
| May | -1.3 | -1.8 | -6.4 | -5.4 | -7.3 | -10.7 | -15.3 | -19.0 | -22.7 | -21.1 | -11.7 | +2.8 | +16.8 | +24.0 | +23.2 | +18.3 | +12.7 | +8.1 | +4.9 | +3.1 | +2.2 | +2.7 | +2.2 | +1.8 | γ |
| June | +0.3 | -1.6 | -3.5 | -6.7 | -10.6 | -18.3 | -24.6 | -31.0 | -32.1 | -24.1 | -9.7 | +4.1 | +17.6 | +24.3 | +25.9 | +18.3 | +11.8 | +9.0 | +8.4 | +7.9 | +5.6 | +3.0 | +2.8 | γ | |
| July | -0.9 | -3.7 | -4.7 | -7.5 | -12.7 | -20.0 | -24.6 | -27.3 | -26.8 | -21.7 | -11.3 | -0.9 | +13.1 | +19.6 | +24.5 | +23.6 | +18.6 | +15.6 | +13.4 | +9.8 | +7.1 | +6.2 | +6.9 | +2.0 | γ |
| Aug. | -3.7 | -0.5 | -4.5 | -7.7 | -13.9 | -19.6 | -26.7 | -28.9 | -28.6 | -20.6 | -4.0 | +12.3 | +26.0 | +31.6 | +30.2 | +24.4 | +12.6 | +5.6 | +1.7 | +2.4 | +4.1 | +4.6 | +3.4 | -0.2 | γ |
| Sept. | -2.6 | -1.7 | -7.3 | -10.0 | -10.2 | -12.4 | -14.3 | -18.8 | -19.3 | -12.5 | -2.9 | +17.3 | +24.3 | +24.1 | +19.9 | +8.8 | +1.8 | +2.3 | +3.1 | +4.5 | +1.6 | -0.1 | -0.9 | -0.7 | γ |
| Oct. | -6.9 | -6.1 | -5.5 | -4.7 | -4.6 | -6.1 | -7.8 | -9.8 | -14.0 | -15.0 | -7.9 | -4.6 | +13.1 | +16.4 | +17.7 | +14.1 | +9.7 | +7.9 | +6.1 | +4.3 | +2.9 | +1.1 | -3.9 | -5.7 | γ |
| Nov. | -8.5 | -5.9 | -2.3 | -2.1 | -0.9 | -2.2 | -3.7 | -4.6 | -7.1 | -7.1 | -2.3 | +4.1 | +8.2 | +10.3 | +9.7 | +7.7 | +6.9 | +5.3 | +3.3 | +2.3 | -0.7 | -2.1 | -3.4 | -5.2 | γ |
| Dec. | -6.6 | -4.7 | -1.5 | -1.6 | -1.3 | -0.9 | -1.9 | -3.2 | -4.6 | -4.6 | -1.1 | +4.4 | +9.6 | +11.0 | +9.3 | +7.0 | +4.9 | +3.1 | +1.7 | -0.2 | -2.1 | -4.2 | -5.7 | -7.2 | γ |
| Year | -3.7 | -3.0 | -4.2 | -5.6 | -7.1 | -9.6 | -12.4 | -15.0 | -16.6 | -13.7 | -4.9 | +5.6 | +14.5 | +18.5 | +18.1 | +14.0 | +9.2 | +6.3 | +4.5 | +3.6 | +2.1 | +1.0 | -0.1 | -1.5 | γ |
| Winter | -6.0 | -4.5 | -2.5 | -2.7 | -2.1 | -1.6 | -2.7 | -3.7 | -4.9 | -4.4 | -0.7 | +3.9 | +8.1 | +10.5 | +8.8 | +5.7 | +4.4 | +3.0 | +2.0 | +1.1 | -1.0 | -2.8 | -3.6 | -4.5 | γ |
| Equinox | -3.7 | -2.6 | -6.1 | -7.1 | -7.7 | -9.5 | -11.3 | -14.2 | -17.1 | -15.0 | -4.6 | +8.2 | +17.5 | +20.8 | +19.3 | +13.0 | +7.1 | +5.2 | +4.0 | +3.3 | +1.9 | +0.9 | -0.8 | -1.4 | γ |
| Summer | -1.4 | -2.0 | -3.9 | -6.9 | -11.6 | -17.8 | -23.1 | -27.2 | -27.7 | -21.8 | -9.2 | +4.7 | +17.7 | +24.3 | +26.2 | +23.3 | +16.2 | +10.7 | +7.4 | +6.2 | +5.5 | +4.7 | +4.1 | +1.6 | γ |
| VERTICAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ | γ |
| Feb. | +0.6 | +0.2 | -0.2 | 0.0 | -0.4 | -0.5 | 0.0 | +0.2 | -0.2 | -1.0 | -1.6 | -1.6 | -2.2 | -1.0 | -0.4 | +1.4 | +1.4 | +1.3 | +0.6 | +0.8 | +1.0 | +1.0 | +0.2 | -0.4 | γ |
| Mar. | +0.8 | +0.4 | +0.3 | +0.2 | +0.8 | +0.8 | 0.0 | -0.6 | -0.7 | -1.2 | -3.4 | -3.8 | -4.2 | -3.0 | -0.9 | +1.0 | +1.2 | +2.0 | +1.8 | +2.1 | +2.0 | +1.4 | +0.6 | +0.6 | γ |
| Apr. | +5.2 | +2.4 | +2.4 | +2.4 | +1.8 | +0.5 | +0.4 | +1.2 | -2.0 | -5.2 | -9.0 | -9.4 | -8.4 | -5.6 | -1.0 | +1.0 | +4.8 | +4.1 | +4.2 | +3.2 | +2.4 | +2.2 | +1.8 | +1.2 | γ |
| May | +4.0 | +3.5 | +3.8 | +5.0 | +6.6 | +6.9 | +6.8 | +3.2 | -0.4 | -5.5 | -11.8 | -16.8 | -15.6 | -11.9 | -8.2 | -4.8 | +0.2 | +5.5 | +6.8 | +7.2 | +6.4 | +4.1 | +2.6 | +2.4 | γ |
| June | +1.7 | +2.1 | +3.3 | +4.5 | +4.7 | +5.5 | +5.5 | +4.7 | -0.3 | -4.5 | -10.3 | -15.1 | -16.1 | -10.7 | -5.1 | -2.3 | +0.3 | +4.9 | +6.7 | +7.3 | +6.3 | +3.9 | +2.1 | +0.9 | γ |
| July | +4.9 | +4.6 | +4.2 | +5.1 | +5.2 | +4.8 | +2.3 | +1.0 | -2.8 | -6.3 | -9.4 | -14.0 | -15.1 | -11.6 | -7.8 | -1.7 | +2.2 | +4.4 | +6.0 | +7.0 | +6.2 | +4.9 | +3.0 | +2.4 | γ |
| Aug. | -0.2 | -0.4 | -0.8 | +0.4 | +2.4 | +3.4 | +4.2 | +3.8 | +2.6 | -1.6 | -6.4 | -10.8 | -14.0 | -11.0 | -3.4 | +3.6 | +7.2 | +8.2 | +6.4 | +4.0 | +1.6 | +0.4 | +0.8 | -0.4 | γ |
| Sept. | -2.6 | -0.9 | 0.0 | +1.3 | +0.9 | +2.8 | +3.7 | +3.1 | +0.6 | -4.3 | -8.8 | -11.3 | -10.4 | -5.9 | -0.8 | +4.9 | +6.1 | +4.0 | +4.1 | +3.7 | +3.6 | +3.3 | +1.8 | +1.1 | γ |
| Oct. | +4.1 | +3.4 | +2.9 | +2.2 | +1.4 | +1.1 | +1.0 | +1.0 | +0.3 | -1.4 | -5.5 | -9.2 | -7.5 | -4.8 | -2.3 | 0.0 | +1.2 | +1.1 | +1.4 | +1.0 | +1.3 | +2.6 | +2.7 | +2.0 | γ |
| Nov. | +2.4 | +1.1 | -0.2 | -0.6 | -0.3 | -0.2 | -0.8 | -1.4 | -2.3 | -2.6 | -3.4 | -2.6 | -0.7 | +1.4 | +2.0 | +1.6 | +1.5 | +1.0 | +0.8 | +1.0 | +0.9 | +0.8 | +0.8 | +0.8 | γ |
| Dec. | +0.6 | +1.3 | +1.2 | +0.9 | +0.2 | -0.1 | -0.8 | -1.1 | -1.8 | -2.5 | -3.6 | -5.1 | -4.6 | -2.5 | -1.2 | +2.7 | +2.8 | | | | | | | | |

DIURNAL INEQUALITIES OF THE GEOMAGNETIC ELEMENTS, DECLINATION, INCLINATION, AND HORIZONTAL COMPONENT
INTERNATIONAL QUIET DAYS

77

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

27 ESKDALEMUIR

1966

| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | |
| DECLINATION (measured positive towards the west) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -0.79 | -0.67 | -0.43 | -0.55 | -0.41 | +0.05 | -0.33 | -0.56 | -0.65 | -0.15 | -0.49 | +1.03 | +1.47 | +1.65 | +1.31 | +0.61 | +0.51 | +0.22 | +0.07 | -0.11 | -0.41 | -0.73 | -0.87 | -0.75 | |
| Feb. | -0.95 | -0.74 | -0.75 | -0.81 | -0.87 | -0.90 | -0.95 | -1.11 | -1.05 | -0.88 | -0.15 | -0.79 | +1.89 | +2.70 | +1.99 | +0.97 | +0.71 | +0.54 | +0.43 | +0.41 | +0.01 | -0.42 | -0.35 | -0.51 | |
| Mar. | -0.81 | -0.23 | -1.11 | -1.71 | -1.89 | -1.92 | -1.77 | -1.99 | -2.49 | -2.03 | -0.17 | -2.21 | +3.69 | +4.03 | +3.39 | +2.09 | +0.77 | +0.42 | +0.19 | +0.05 | -0.05 | -0.25 | -0.31 | -0.45 | |
| Apr. | -0.48 | -0.57 | -1.49 | -1.30 | -1.69 | -2.37 | -3.30 | -3.97 | -4.49 | -3.74 | -1.45 | -1.61 | +4.38 | +5.53 | +5.01 | +3.66 | +2.33 | +1.27 | +0.52 | -0.21 | -0.07 | -0.16 | -0.07 | -0.03 | |
| May | -0.46 | -0.56 | -0.70 | -1.32 | -1.98 | -2.94 | -3.52 | -4.26 | -4.42 | -3.60 | -1.58 | -1.20 | +3.72 | +5.00 | +5.24 | +4.34 | +2.86 | +1.50 | +0.54 | +0.28 | +0.16 | +0.10 | +0.30 | +0.10 | |
| June | -0.12 | -0.49 | -0.83 | -1.50 | -2.37 | -3.97 | -5.10 | -6.17 | -6.13 | -4.12 | -0.87 | -2.03 | +4.58 | +5.65 | +5.65 | +4.80 | +3.39 | +1.83 | +1.04 | +0.93 | +0.93 | +0.60 | +0.09 | +0.15 | |
| July | -0.36 | -0.89 | -1.10 | -1.70 | -2.78 | -4.13 | -4.96 | -5.34 | -4.96 | -3.69 | -1.48 | +1.00 | +3.42 | +4.63 | +5.32 | +4.84 | +3.54 | +2.69 | +2.04 | +1.34 | +0.82 | +0.75 | +0.96 | +0.04 | |
| Aug. | -1.06 | -0.31 | -1.10 | -1.81 | -3.05 | -4.08 | -5.31 | -5.51 | -5.24 | -3.21 | -0.28 | -3.51 | +5.92 | +6.71 | +6.08 | +4.67 | +2.19 | +0.82 | -0.17 | -0.03 | -0.42 | -0.49 | -0.30 | -0.51 | |
| Sept. | -0.79 | -0.51 | -1.70 | -2.17 | -2.19 | -2.49 | -2.75 | -3.41 | -3.18 | -1.63 | +1.51 | +4.09 | +5.17 | +4.89 | +3.88 | +1.69 | +0.23 | +0.21 | +0.31 | +0.47 | -0.06 | -0.45 | -0.55 | -0.57 | |
| Oct. | -1.58 | -1.36 | -1.22 | -1.06 | -1.08 | -1.38 | -1.78 | -2.14 | -2.86 | -2.76 | -1.04 | -1.64 | +3.30 | +3.82 | +3.86 | +2.96 | +1.94 | +1.44 | +0.98 | +0.54 | +0.28 | -0.04 | -1.06 | -1.40 | |
| Nov. | -1.64 | -1.08 | -0.38 | -0.44 | -0.24 | -0.56 | -0.88 | -1.02 | -1.42 | -1.30 | -0.18 | -1.18 | +2.00 | +2.36 | +2.10 | +1.58 | +1.26 | +0.92 | +0.44 | +0.24 | -0.38 | -0.58 | -0.82 | -1.16 | |
| Dec. | -1.34 | -0.87 | -0.22 | -0.31 | -0.31 | -0.30 | -0.51 | -0.73 | -0.86 | -0.83 | -0.02 | -1.17 | +2.14 | +2.35 | +1.94 | +1.45 | +0.97 | +0.52 | +0.21 | -0.19 | -0.58 | -0.99 | -1.22 | -1.51 | |
| Year | -0.87 | -0.69 | -0.92 | -1.22 | -1.57 | -2.08 | -2.60 | -3.02 | -3.15 | -2.33 | -0.36 | -1.79 | +3.47 | +4.11 | +3.81 | +2.81 | +1.73 | +1.03 | +0.55 | +0.35 | +0.10 | -0.11 | -0.29 | -0.55 | |
| Winter Equinox | -1.18 | -0.84 | -0.45 | -0.53 | -0.46 | -0.43 | -0.67 | -0.85 | -0.99 | -0.79 | -0.05 | -1.04 | +1.87 | +2.27 | +1.83 | +1.15 | +0.86 | +0.55 | +0.29 | +0.09 | -0.34 | -0.68 | -0.81 | -0.98 | |
| Summer | -0.91 | -0.67 | -1.38 | -1.56 | -1.71 | -2.04 | -2.40 | -2.88 | -3.25 | -2.54 | -0.20 | -2.39 | +4.13 | +4.57 | +4.03 | +2.60 | +1.32 | +0.83 | +0.50 | +0.32 | +0.06 | -0.15 | -0.46 | -0.60 | |
| | -0.50 | -0.56 | -0.93 | -1.58 | -2.55 | -3.78 | -4.72 | -5.32 | -5.19 | -3.65 | -0.91 | -1.93 | +4.41 | +5.50 | +5.57 | +4.66 | +2.99 | +1.71 | +0.86 | +0.63 | +0.58 | +0.49 | +0.41 | -0.05 | |
| INCLINATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +0.22 | +0.16 | +0.15 | +0.14 | +0.01 | -0.16 | -0.17 | -0.15 | -0.01 | -0.13 | -0.21 | -0.13 | +0.05 | -0.03 | -0.10 | -0.00 | -0.03 | -0.05 | -0.14 | -0.17 | -0.07 | -0.07 | -0.07 | -0.07 | |
| Feb. | +0.05 | +0.02 | +0.03 | +0.02 | -0.06 | -0.13 | -0.23 | -0.24 | -0.09 | -0.10 | -0.21 | -0.32 | +0.30 | +0.15 | +0.07 | -0.05 | -0.03 | -0.12 | -0.03 | -0.13 | -0.07 | -0.14 | -0.09 | -0.09 | |
| Mar. | +0.11 | -0.09 | +0.03 | +0.05 | -0.01 | -0.18 | -0.22 | -0.22 | -0.04 | -0.50 | -0.69 | -0.86 | +0.59 | -0.23 | -0.00 | -0.09 | -0.08 | -0.07 | -0.21 | -0.35 | -0.38 | -0.43 | -0.35 | -0.43 | |
| Apr. | -0.28 | -0.26 | -0.23 | -0.23 | -0.22 | -0.18 | -0.18 | -0.02 | -0.37 | -1.03 | -1.58 | -1.57 | +1.34 | -0.79 | -0.25 | -0.25 | -0.52 | -0.66 | -0.78 | -0.68 | -0.59 | -0.64 | -0.65 | -0.59 | |
| May | -0.16 | -0.13 | -0.10 | -0.12 | -0.21 | -0.25 | -0.07 | -0.35 | -0.75 | -1.11 | -1.31 | -1.20 | +1.04 | -0.81 | -0.21 | -0.30 | -0.63 | -0.88 | -0.98 | -0.85 | -0.65 | -0.64 | -0.55 | -0.41 | |
| June | -0.30 | -0.24 | -0.11 | -0.10 | -0.22 | -0.22 | -0.08 | -0.53 | -0.92 | -1.48 | -1.86 | -1.83 | +1.39 | -0.94 | -0.45 | -0.15 | -0.70 | -1.01 | -1.35 | -1.32 | -1.15 | -0.94 | -0.92 | -0.76 | |
| July | -0.21 | -0.11 | -0.13 | -0.17 | -0.16 | +0.11 | +0.26 | +0.58 | +0.97 | +1.31 | +1.33 | +1.17 | +0.93 | +0.79 | +0.31 | -0.08 | -0.51 | -0.87 | -1.18 | -1.09 | -1.04 | -0.86 | -0.77 | -0.64 | |
| Aug. | -0.58 | -0.41 | -0.35 | -0.39 | -0.29 | +0.01 | +0.46 | +0.94 | +1.29 | +1.92 | +1.91 | +1.54 | +0.70 | +0.08 | -0.36 | -0.60 | -0.58 | -0.41 | -0.80 | -0.87 | -0.76 | -0.83 | -0.74 | -0.89 | |
| Sept. | -0.55 | -0.32 | -0.36 | -0.17 | -0.16 | +0.19 | +0.48 | +0.93 | +1.53 | +1.65 | +1.50 | +0.68 | +0.02 | -0.31 | -0.43 | -0.13 | -0.09 | -0.39 | -0.52 | -0.78 | -0.65 | -0.72 | -0.62 | -0.78 | |
| Oct. | -0.17 | -0.10 | -0.09 | -0.13 | -0.20 | -0.22 | -0.29 | -0.21 | -0.05 | -0.60 | -0.97 | -1.06 | +0.92 | -0.69 | -0.35 | -0.06 | -0.09 | -0.33 | -0.50 | -0.61 | -0.56 | -0.43 | -0.43 | -0.36 | |
| Nov. | +0.26 | +0.27 | +0.18 | -0.02 | -0.13 | -0.22 | -0.24 | -0.15 | +0.06 | -0.23 | -0.47 | -0.55 | +0.52 | +0.42 | -0.23 | -0.04 | -0.25 | -0.29 | -0.43 | -0.43 | -0.40 | -0.27 | -0.22 | -0.17 | |
| Dec. | +0.05 | +0.22 | +0.21 | +0.06 | -0.09 | -0.23 | -0.25 | -0.17 | 0.00 | -0.16 | -0.36 | -0.37 | +0.20 | +0.10 | -0.06 | -0.09 | -0.01 | -0.14 | -0.21 | -0.24 | -0.26 | -0.19 | -0.06 | -0.02 | |
| Year | -0.13 | -0.08 | -0.06 | -0.09 | -0.14 | -0.12 | -0.02 | -0.18 | -0.49 | -0.85 | -1.03 | -0.94 | +0.67 | +0.39 | -0.08 | -0.12 | -0.28 | -0.42 | -0.59 | -0.63 | -0.55 | -0.52 | -0.46 | -0.44 | |
| Winter Equinox | +0.15 | +0.17 | +0.14 | +0.05 | -0.07 | -0.19 | -0.22 | -0.18 | -0.01 | -0.16 | -0.31 | -0.34 | +0.27 | +0.16 | -0.03 | -0.02 | -0.05 | -0.09 | -0.18 | -0.24 | -0.20 | -0.17 | -0.11 | -0.09 | |
| Summer | -0.22 | -0.19 | -0.16 | -0.12 | -0.15 | -0.10 | -0.06 | -0.12 | -0.50 | -0.95 | -1.19 | -1.04 | +0.72 | +0.35 | -0.04 | -0.10 | -0.20 | -0.36 | -0.50 | -0.60 | -0.55 | -0.51 | -0.54 | -0.54 | |
| | -0.31 | -0.22 | -0.17 | -0.19 | -0.22 | -0.09 | -0.22 | -0.60 | -0.98 | -1.45 | -1.61 | -1.43 | +1.03 | +0.66 | -0.15 | -0.28 | -0.60 | -0.79 | -1.08 | -1.03 | -0.90 | -0.81 | -0.75 | -0.68 | |
| HORIZONTAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y | y |
| Feb. | -3.1 | -2.4 | -2.3 | -2.1 | -0.3 | +2.2 | +2.5 | +2.3 | -0.3 | -2.4 | -3.7 | -2.5 | -1.5 | 0.0 | +1.7 | +0.5 | +0.1 | +1.2 | +2.3 | +2.9 | +1.5 | +1.4 | +1.1 | +0.9 | +0.9 |
| Mar. | -0.5 | -0.2 | -0.3 | -0.2 | +1.2 | +2.3 | +3.4 | +3.4 | +1.1 | -2.0 | -4.5 | -6.2 | -6.1 | -3.4 | +0.7 | +1.2 | -0.0 | -1.1 | +0.4 | +2.6 | +1.9 | +2.8 | +1.9 | +1.6 | |
| Apr. | +0.2 | +2.3 | +0.4 | +0.2 | +0.8 | +2.9 | +3.4 | +2.8 | -1.4 | -9.5 | -13.8 | -16.4 | -12.0 | -5.5 | -0.4 | +2.4 | +3.0 | +2.5 | +4.8 | +6.4 | +7.3 | +6.0 | +7.0 | | |
| May | +5.7 | +5.3 | +5.0 | +5.1 | +5.1 | +4.7 | +4.3 | +1.3 | -5.6 | -17.3 | -27.1 | -28.7 | -25.7 | -16.3 | -6.4 | +3.3 | +8.3 | +11.5 | +13.5 | +12.3 | +10.8 | +10.9 | +10.5 | +9.5 | |
| June | +3.9 | +3.3 | +2.9 | +3.7 | +5.7 | +6.3 | +1.5 | -4.1 | -11.5 | -18.7 | -24.1 | -24.3 | -21.5 | -16.7 | -6.3 | +2.7 | +9.5 | +15.3 | +17.3 | +15.5 | +12.1 | +11.1 | +9.3 | +7.1 | |
| July | +5.0 | +3.3 | +3.5 | +4.4 | +4.3 | +0.1 | -3.0 | -8.3 | -22.0 | -23.5 | -22.9 | -20.4 | -16.3 | -7.5 | +0.6 | +8.5 | +14.7 | +20.2 | +19.1 | +17.9 | +14.8 | +12.7 | +10.5 | | |
| Aug. | +8.6 | +6.1 | +5.0 | +6.0 | +5.2 | +1.1 | -5.4 | -12.8 | -18.4 | -29.5 | -31.2 | -27.2 | -15.8 | -5.3 | +4.2 | +10.4 | +11.4 | +9.3 | +14.4 | +14.6 | +12.0 | +12.7 | +11.4 | +13.2 | |
| Sept. | +7.4 | +4.5 | +5.4 | +3.1 | +2.7 | -1.8 | -5.9 | -12.9 | -22.8 | -26.5 | -25.8 | -14.5 | -4.2 | +2.5 | +6.2 | +3.7 | +3.7 | +7.4 | +9.3 | +13.1 | +11.2 | +12.1 | +10.0 | +12.1 | |
| Oct. | +4.1 | +2.8 | +2.5 | +2.8 | +3.6 | +3.7 | +4.8 | +3.6 | -0.7 | -9.6 | -16.7 | -19.4 | -16.7 | -12.2 | -6.1 | -1.2 | +1.8 | +5.3 | +8.0 | | | | | | |

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF GEOMAGNETIC FORCE
INTERNATIONAL DISTURBED DAYS

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

28 ESKDALEMUIR

1966

| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 |
| NORTH COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +6.3 | -1.0 | +3.0 | +4.2 | +7.8 | +11.4 | +11.2 | +12.4 | +13.5 | +3.5 | -4.0 | -6.4 | -4.1 | -8.0 | -20.2 | -8.8 | -12.7 | -11.6 | -8.3 | -3.5 | +0.6 | +6.4 | +6.1 | +2.3 |
| Feb. | +7.3 | +6.6 | +7.0 | +5.8 | +8.1 | +9.6 | +9.9 | +1.9 | +4.3 | -11.5 | -10.3 | -12.0 | -16.4 | -9.5 | -5.2 | -6.7 | -9.3 | -5.6 | -0.2 | +7.2 | +12.8 | -0.4 | +2.7 | +3.9 |
| Mar. | +8.9 | +13.9 | +22.4 | +32.9 | +28.5 | +20.3 | +4.8 | +0.3 | -13.9 | -31.3 | -32.1 | -30.3 | -28.7 | -22.8 | -10.9 | +2.5 | +4.7 | -3.2 | -1.2 | -0.9 | +4.5 | +5.0 | +13.7 | +12.9 |
| Apr. | +14.9 | +9.6 | +11.3 | +10.9 | +13.2 | +11.0 | +12.0 | +10.9 | +2.4 | -9.0 | -17.2 | -23.0 | -23.9 | -21.0 | -14.8 | -8.8 | -0.3 | +3.7 | +4.5 | +2.8 | +2.8 | +7.5 | -0.6 | +1.2 |
| May | +16.3 | +17.4 | +7.4 | +9.3 | +17.7 | +18.3 | +10.2 | -2.3 | -13.8 | -27.5 | -5.1 | -45.3 | -42.6 | -29.8 | -12.9 | +14.4 | +28.8 | +33.8 | +39.8 | +22.9 | +9.8 | -8.9 | -11.2 | -0.4 |
| June | +18.7 | +7.2 | +4.4 | +4.8 | +4.7 | +7.3 | +4.5 | -5.3 | -14.5 | -28.1 | -38.6 | -40.0 | -25.4 | -18.1 | -4.7 | +4.9 | +9.9 | +29.2 | +35.4 | +23.0 | +12.4 | +2.0 | +5.3 | +0.9 |
| July | +18.2 | +18.7 | +11.7 | +7.6 | -10.8 | -4.4 | -18.9 | -21.3 | -27.4 | -31.2 | -36.3 | -44.1 | -27.4 | -11.7 | -4.9 | +8.7 | +21.2 | +28.7 | +32.9 | +23.4 | +20.7 | +21.6 | +17.4 | +7.7 |
| Aug. | +8.0 | +1.3 | -1.6 | +4.2 | +5.0 | +3.6 | 0.0 | -8.5 | -17.7 | -28.6 | -36.8 | -33.4 | -28.8 | -3.0 | -2.2 | +4.1 | +17.9 | +32.3 | +14.3 | +19.9 | +21.3 | +8.0 | +10.0 | +10.5 |
| Sept. | -28.9 | -72.6 | -38.5 | +13.2 | +10.0 | +11.5 | -9.4 | -7.5 | -21.4 | -37.9 | -41.7 | -25.5 | +3.1 | +6.1 | +12.6 | +32.8 | +46.7 | +48.7 | +48.2 | +28.1 | +14.6 | +10.9 | -28.7 | +25.6 |
| Oct. | +21.3 | +18.9 | +18.6 | +12.9 | +20.5 | +13.5 | +15.0 | +1.7 | -2.7 | -20.3 | -29.5 | -32.7 | -31.2 | -24.7 | -19.9 | -18.0 | -3.5 | +2.9 | +12.9 | +11.1 | +10.8 | -0.5 | +7.5 | +15.2 |
| Nov. | +6.7 | +7.2 | +8.2 | +10.1 | +13.5 | +14.7 | +8.9 | +5.0 | +7.3 | -9.5 | -21.2 | -24.9 | -21.2 | -19.0 | -10.1 | -12.6 | -7.3 | -6.8 | -1.6 | +8.1 | +7.2 | +20.1 | +13.0 | +4.5 |
| Dec. | +6.5 | +6.3 | +7.4 | +2.6 | +7.6 | +11.1 | +13.5 | +15.8 | +7.4 | +3.0 | -4.2 | -4.9 | -2.5 | -3.9 | -6.2 | -14.1 | -17.2 | -6.3 | -7.7 | -8.5 | -10.9 | +2.8 | +5.3 | -3.1 |
| Year | +8.7 | +2.8 | +5.1 | +9.9 | +10.4 | +10.6 | +5.1 | +0.3 | -6.4 | -19.0 | -26.9 | -26.9 | -20.6 | -13.8 | -8.3 | -0.1 | +6.6 | +12.2 | +14.1 | +11.2 | +8.9 | +6.3 | +3.4 | +6.8 |
| Winter | +6.7 | +4.8 | +6.5 | +5.7 | +9.2 | +11.7 | +11.0 | +8.8 | +8.2 | -3.7 | -10.0 | -12.1 | -11.0 | -10.1 | -10.5 | -10.6 | -11.6 | -7.5 | -4.4 | +0.8 | +2.4 | +7.2 | +6.8 | +1.9 |
| Equinox | +4.1 | -7.5 | +3.5 | +17.5 | +18.1 | +14.0 | +5.6 | +1.4 | -8.9 | -24.6 | -30.1 | -27.9 | -20.2 | -15.7 | -8.3 | +2.1 | +11.9 | +13.0 | +16.2 | +10.2 | +8.1 | +5.8 | -2.0 | +13.7 |
| Summer | +15.3 | +11.1 | +5.4 | +6.5 | +4.1 | +6.3 | -1.0 | -9.4 | -18.4 | -28.8 | -40.7 | -31.0 | -15.6 | -6.1 | +8.0 | +19.4 | +31.0 | +30.6 | +22.3 | +16.2 | +5.6 | +5.4 | +4.6 | |
| WEST COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -13.7 | -6.6 | -2.3 | -2.4 | -2.0 | +1.1 | +7.5 | +9.8 | +7.4 | +4.0 | +5.6 | +12.9 | +16.5 | +21.9 | +7.7 | +13.9 | +12.9 | -1.3 | -7.9 | -12.9 | -24.5 | -13.9 | -16.1 | -17.5 |
| Feb. | -5.8 | -0.2 | -5.2 | -3.4 | +0.4 | +5.9 | +0.4 | +5.7 | +3.2 | -0.9 | +0.8 | +11.3 | +12.6 | +16.9 | +17.9 | +16.9 | +15.8 | +8.1 | +2.5 | -22.1 | -33.5 | -20.2 | -12.2 | -14.9 |
| Mar. | -25.4 | -35.8 | -31.2 | -36.2 | -13.9 | +7.7 | +4.9 | +4.8 | +1.1 | +4.9 | +6.5 | +27.5 | +37.5 | +40.5 | +32.5 | +26.2 | +22.7 | +10.9 | -22.4 | -20.6 | -11.2 | -14.7 | -11.6 | -4.9 |
| Apr. | -11.2 | -13.7 | -12.3 | -19.7 | -15.6 | -11.1 | -11.2 | -17.4 | -18.3 | -13.0 | -0.7 | +14.9 | +28.1 | +39.5 | +42.9 | +36.8 | +29.9 | +18.7 | +6.5 | -2.7 | -5.6 | -25.0 | -19.5 | -1.9 |
| May | -2.3 | -12.7 | -10.9 | -6.2 | -11.3 | -23.3 | -26.2 | -19.6 | -19.8 | -11.3 | -1.6 | +20.6 | +32.0 | +33.9 | +39.1 | +42.6 | +39.1 | +28.4 | +11.1 | -5.1 | -16.4 | -26.5 | -34.5 | -19.3 |
| June | -6.4 | -7.3 | -5.2 | -8.5 | -13.9 | -21.1 | -27.7 | -30.1 | -32.1 | -27.9 | -15.0 | +2.2 | +16.8 | +28.9 | +35.0 | +35.5 | +29.5 | +25.9 | +20.8 | +6.5 | +1.2 | -2.9 | -5.9 | +1.7 |
| July | -24.1 | -25.1 | -21.6 | -13.8 | -15.0 | -16.2 | -11.6 | -9.8 | -17.4 | -15.8 | -8.2 | +2.1 | +20.9 | +29.3 | +32.7 | +33.2 | +28.6 | +21.0 | +19.4 | +9.7 | +8.4 | -3.2 | -8.0 | -15.5 |
| Aug. | -19.1 | -11.6 | -18.6 | -21.7 | -19.4 | -24.8 | -31.4 | -30.6 | -26.3 | -17.0 | +2.4 | +25.9 | +37.9 | +51.4 | +49.4 | +38.2 | +32.3 | +30.6 | +9.8 | +12.8 | -19.4 | -24.2 | -11.8 | -15.0 |
| Sept. | -50.2 | -54.7 | -20.2 | -13.3 | +0.3 | +3.0 | +10.7 | -0.9 | -0.7 | +0.2 | +16.7 | +31.5 | +42.0 | +56.9 | +45.4 | +27.8 | +12.4 | +17.7 | +6.1 | -1.2 | +1.2 | +23.8 | -74.3 | -11.1 |
| Oct. | -18.4 | -18.3 | -8.5 | -1.0 | +3.4 | +9.3 | +3.4 | -2.2 | -4.6 | -0.9 | +8.3 | +18.9 | +28.5 | +35.1 | +35.6 | +23.5 | +9.8 | +4.7 | -13.5 | -12.0 | -33.6 | -26.4 | -19.7 | -21.3 |
| Nov. | -18.3 | -2.0 | +3.1 | +5.8 | +7.8 | +8.2 | +13.0 | +11.4 | +9.1 | +2.9 | +1.9 | +4.9 | +17.7 | +18.7 | +16.2 | +5.3 | +2.3 | -7.1 | -10.3 | -14.5 | +10.0 | -26.9 | -22.0 | -17.1 |
| Dec. | -20.3 | -8.4 | -6.5 | +0.6 | -2.6 | +5.2 | +9.3 | +19.7 | +8.8 | +7.9 | +4.1 | +12.7 | +17.2 | +16.6 | +28.5 | +27.5 | +23.8 | +2.3 | -25.3 | -29.0 | -22.3 | -24.9 | -23.5 | -21.5 |
| Year | -17.9 | -16.4 | -11.6 | -10.0 | -6.8 | -4.7 | -6.8 | -4.9 | -7.5 | -5.6 | +1.7 | +15.5 | +25.7 | +32.5 | +31.9 | +27.3 | +21.6 | +13.3 | -0.3 | -7.6 | -13.8 | -19.4 | -21.7 | -14.6 |
| Winter | -14.5 | -4.3 | -2.7 | +0.1 | +0.9 | +5.1 | +7.6 | +11.7 | +7.1 | +3.5 | +3.1 | +10.4 | +16.0 | +18.5 | +17.6 | +15.9 | +13.7 | +0.5 | -10.2 | -19.7 | -22.6 | -21.5 | -18.5 | -17.8 |
| Equinox | -26.3 | -30.6 | -18.0 | -17.6 | -6.5 | +2.2 | -3.4 | -3.9 | -5.6 | -2.2 | +7.7 | +23.2 | +34.1 | +43.0 | +39.1 | +28.6 | +18.7 | +13.0 | -5.9 | -9.1 | -12.3 | -22.5 | -31.5 | -14.1 |
| Summer | -13.0 | -14.2 | -14.1 | -12.5 | -14.9 | -21.3 | -24.2 | -22.5 | -23.9 | -18.0 | -5.6 | +12.7 | +26.9 | +35.9 | +39.1 | +37.3 | +32.3 | +26.4 | +15.3 | +6.0 | -6.5 | -14.2 | -15.1 | -12.0 |
| VERTICAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -5.2 | -5.9 | -7.0 | -5.3 | -5.5 | -7.0 | -9.1 | -9.3 | -9.6 | -8.7 | -8.2 | -7.3 | -6.4 | -1.3 | -10.8 | +11.7 | +12.9 | +18.0 | +15.5 | +14.5 | +11.0 | +4.3 | -0.2 | -2.7 |
| Feb. | -6.7 | -8.8 | -6.9 | -4.8 | -10.6 | -15.7 | -14.8 | -12.2 | -9.9 | -7.0 | -5.3 | -5.4 | -1.5 | -3.6 | +1.7 | +13.4 | +20.4 | +22.1 | +18.0 | +20.0 | +13.7 | +5.0 | +1.3 | -2.4 |
| Mar. | -13.4 | -14.3 | -17.3 | -24.6 | -31.9 | -34.7 | -31.4 | -23.1 | -16.1 | -12.4 | -10.5 | -7.3 | +1.2 | +5.7 | +16.5 | +35.2 | +45.3 | +47.9 | +48.0 | +20.7 | +7.1 | +4.2 | +5.1 | +0.1 |
| Apr. | -7.2 | -5.3 | -10.5 | -10.8 | -9.3 | -8.9 | -9.2 | -8.7 | -9.9 | -12.8 | -16.5 | -21.3 | -20.4 | -12.1 | +1.7 | +13.2 | +23.5 | +33.9 | +27.1 | +19.7 | +11.6 | +2.1 | -3.5 | |
| May | -8.0 | -12.3 | -11.7 | -10.0 | -16.9 | -17.5 | -12.6 | -11.7 | -14.1 | -14.8 | -15.5 | -16.9 | -11.0 | -2.7 | +9.3 | +17.8 | +36.5 | +45.5 | +42.6 | +20.7 | +15.3 | +11.4 | -6.1 | -17.3 |
| June | -12.6 | -10.4 | -14.8 | -9.2 | -3.0 | -1.4 | -0.2 | -0.2 | -2.6 | -7.2 | -12.2 | -16.8 | -16.4 | -13.2 | -6.4 | +1.4 | +9.6 | +14.6 | +21.0 | +27.4 | +22.4 | +16.8 | +9.6 | +3.8 |
| July | -14.0 | -22.5 | -22.8 | -26.1 | -32.6 | -31.5 | -23.2 | -17.1 | -8.0 | -2.7 | -2.2 | -1.9 | +3.0 | +8.9 | +14.8 | +17.7 | +22.0 | +25.3 | +28.2 | +29.3 | +24.2 | +17.9 | +9.4 | +3.9 |
| Aug. | -12.5 | -25.4 | -22.3 | -18.4 | -14.0 | -4.9 | -0.6 | +2.4 | +2.1 | -3.4 | -8.7 | -12.4 | -12.5 | -10.2 | -0.5 | +9.2 | +15.2 | +27.3 | +43.8 | +31.8 | +18.9 | -6.2 | +0.1 | +1.2 |
| Sept. | -69.6 | -101.1 | -81.6 | -68.0 | -40.6 | -34.7 | -17.8 | -9.6 | -1.6 | +5.5 | +15.2 | +18.4 | +31.4 | +37.9 | +42.4 | +65.2 | +80.8 | +90.5 | +84.0 | +55.8 | +32.4 | -0.7 | -68.6 | -65.6 |
| Oct. | -13.0 | -21.1 | -24.8 | -25.3 | -24.0 | -19.9 | -11.3 | -7.6 | -5.3 | -5.8 | -3.9 | +1.6 | +11.3 | +18.6 | +27.1 | +33.5 | +30.2 | +21.9 | +13.5 | +16.4 | +18.5 | +5.0 | -10.1 | |
| Nov. | -11.2 | -14.1 | -11.8 | -10.7 | -10.6 | -10.3 | -9.7 | -8.0 | -6.3 | -3.6 | -0.3 | +4.4 | +8.1 | +12.2 | +20.5 | +22.3 | +22.8 | +1 | | | | | | |

DIURNAL INEQUALITIES OF THE GEOMAGNETIC ELEMENTS, DECLINATION, INCLINATION, AND HORIZONTAL COMPONENT
INTERNATIONAL DISTURBED DAYS

79

Departures from the mean of the 24 hourly values (uncorrected for non-cyclic change)

29 ESKDALEMUIR

1966

| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | |
| DECLINATION (measured positive towards the west) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -2.96 | -1.29 | -0.56 | -0.62 | -0.68 | -0.19 | +1.10 | +1.52 | +1.00 | +0.67 | +1.26 | +2.80 | +3.44 | +4.67 | +2.26 | +3.10 | +3.02 | +0.15 | -1.28 | -2.46 | -4.92 | -3.01 | -3.44 | -3.58 | |
| Feb. | -1.42 | -0.27 | -1.28 | -0.88 | -0.20 | +0.85 | -0.26 | +1.08 | +0.48 | +0.23 | +0.52 | +2.68 | +3.10 | +3.71 | +3.76 | +3.62 | +3.48 | +1.81 | +0.50 | -4.68 | -7.14 | -4.03 | -2.54 | -3.12 | |
| Mar. | -5.40 | -7.65 | -7.02 | -8.39 | -3.79 | +0.84 | +0.81 | +0.95 | +0.72 | +2.07 | +2.42 | +6.57 | +8.52 | +8.91 | +6.88 | +5.15 | +4.37 | +2.30 | -4.43 | -4.09 | -2.40 | -3.11 | -2.80 | -1.43 | |
| Apr. | -2.76 | -3.07 | -2.86 | -4.33 | -3.58 | -2.61 | -2.66 | -3.87 | -3.74 | -2.29 | +0.46 | +3.79 | +6.46 | +8.63 | +9.10 | +7.67 | +6.00 | +3.61 | +1.14 | -0.65 | -1.22 | -5.27 | -4.08 | -3.87 | |
| May | -1.04 | -3.16 | -2.44 | -1.56 | -2.88 | -5.31 | -5.60 | -3.84 | -3.48 | -1.30 | +1.48 | +5.72 | +7.90 | +7.84 | +8.28 | +8.02 | +6.82 | +4.49 | +0.82 | -1.82 | -3.62 | -4.98 | -6.50 | -3.84 | |
| June | -1.94 | -1.71 | -1.19 | -1.86 | -2.95 | -4.47 | -5.70 | -5.83 | -5.91 | -4.60 | -1.65 | +1.85 | +4.26 | +6.41 | +7.17 | +6.92 | +5.55 | +4.15 | +2.92 | +0.49 | -0.19 | -0.66 | -1.37 | -0.31 | |
| July | -5.47 | -5.67 | -4.73 | -3.03 | -2.63 | -3.08 | -1.65 | -1.21 | -2.51 | -2.07 | -0.37 | +1.97 | +5.15 | +6.27 | +6.71 | +6.33 | +4.97 | +3.18 | +2.73 | +1.13 | +0.95 | -1.39 | -2.21 | -3.37 | |
| Aug. | -4.10 | -2.36 | -3.66 | -4.48 | -4.06 | -5.09 | -6.28 | -5.82 | -4.64 | -2.40 | +1.78 | +6.36 | +8.60 | +10.38 | +9.96 | +7.50 | +5.84 | +4.99 | +1.46 | +1.86 | +4.62 | -5.12 | -2.72 | -3.38 | |
| Sept. | -9.03 | -8.40 | -2.68 | -3.13 | -0.30 | +0.20 | -1.81 | +0.08 | +0.62 | +1.37 | +4.80 | +7.20 | +8.29 | +11.16 | +8.64 | +4.41 | +0.84 | +1.84 | -0.47 | -1.22 | -0.28 | -5.15 | -13.86 | -3.12 | |
| Oct. | -4.42 | -4.33 | -2.36 | -0.66 | -0.04 | +1.39 | +0.16 | -0.50 | -0.82 | +0.53 | +2.70 | +4.92 | +6.80 | +7.89 | +7.82 | +5.34 | +2.08 | +0.83 | -3.16 | -2.80 | -7.10 | -5.27 | -4.20 | -4.80 | |
| Nov. | -3.89 | -0.66 | +0.34 | +0.81 | +1.08 | +1.12 | +2.29 | +2.10 | +1.56 | +0.91 | +1.12 | +1.86 | +4.29 | +4.40 | +3.60 | +1.51 | +0.72 | -1.18 | -2.01 | -3.18 | -2.26 | -6.09 | -4.86 | -3.58 | |
| Dec. | -4.29 | -1.90 | -1.57 | +0.03 | -0.79 | +0.66 | +1.39 | +3.39 | +1.51 | +1.48 | +0.97 | +2.71 | +3.53 | +3.46 | +5.91 | +5.99 | +5.37 | +0.68 | +4.79 | +5.51 | +4.07 | +5.08 | -4.89 | -4.19 | |
| Year | -3.89 | -3.37 | -2.50 | -2.34 | -1.73 | -1.31 | -1.52 | -1.00 | -1.27 | -0.45 | +1.29 | +4.04 | +5.86 | +6.98 | +6.67 | +5.46 | +4.09 | +2.24 | -0.55 | -1.91 | -3.07 | -4.10 | -4.46 | -3.16 | |
| Winter | -3.14 | -1.03 | -0.77 | -0.17 | -0.15 | +0.61 | +1.13 | +2.02 | +1.14 | +0.82 | +0.97 | +2.51 | +3.59 | +4.06 | +3.88 | +3.55 | +3.15 | +0.37 | -1.89 | -3.96 | -4.60 | -4.55 | -3.93 | -3.62 | |
| Equinox | -5.40 | -5.86 | -3.73 | -4.13 | -1.93 | -0.05 | -0.87 | -0.83 | -0.81 | +0.42 | +2.59 | +5.62 | +7.52 | +9.15 | +8.11 | +5.64 | +3.32 | +2.15 | -1.75 | -2.19 | -2.75 | -4.70 | -6.23 | -3.31 | |
| Summer | -3.14 | -3.23 | -3.01 | -2.73 | -3.13 | -4.49 | -4.81 | -4.17 | -4.13 | -2.59 | +0.31 | +3.97 | +6.48 | +7.73 | +8.03 | +7.19 | +5.79 | +4.20 | +1.98 | +0.41 | -1.87 | -3.04 | -3.20 | -2.57 | |
| INCLINATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | -0.38 | -0.01 | -0.35 | -0.38 | -0.62 | -0.93 | -1.04 | -1.15 | -1.21 | -0.49 | 0.00 | +0.09 | +0.08 | +0.24 | +1.50 | +0.71 | +1.00 | +1.22 | +1.01 | +0.74 | +0.51 | +0.15 | -0.22 | -0.02 | |
| Feb. | -0.58 | -0.65 | -0.57 | -0.46 | -0.79 | -1.09 | -1.02 | -0.49 | +0.56 | +0.59 | +0.53 | +0.52 | +0.89 | +0.34 | +0.17 | +0.58 | +0.93 | +0.82 | +0.43 | +0.27 | +0.11 | +0.38 | -0.01 | -0.15 | |
| Mar. | -0.62 | -0.85 | -1.53 | -2.34 | -2.49 | -2.27 | -1.14 | -0.64 | +0.50 | +1.68 | +1.76 | +1.48 | +1.47 | +1.17 | +0.74 | +0.40 | +0.55 | +1.26 | +1.51 | +0.81 | +0.01 | -0.06 | -0.64 | -0.79 | |
| Apr. | -1.02 | -0.61 | -0.86 | -0.75 | -0.91 | -0.88 | -0.73 | -0.19 | -0.42 | +0.73 | +0.73 | +0.81 | +0.74 | +0.62 | +0.52 | +0.48 | +0.25 | +0.38 | +0.47 | +0.52 | +0.37 | +0.08 | +0.32 | +0.05 | |
| May | -1.23 | -1.29 | -0.65 | -0.79 | -1.45 | -1.36 | -0.68 | +0.09 | +0.78 | +1.57 | +2.98 | +2.31 | +2.14 | +1.49 | +0.63 | +0.99 | +1.43 | +1.41 | +1.67 | +0.93 | +0.07 | +1.17 | +0.98 | -0.18 | |
| June | -1.46 | -0.64 | -0.59 | -0.45 | -0.22 | -0.27 | +0.01 | +0.69 | +1.25 | +1.98 | +2.39 | +2.17 | +1.06 | +0.52 | -0.25 | +0.69 | +0.75 | +1.84 | +2.04 | +0.90 | +0.27 | +0.31 | +0.04 | +0.01 | |
| July | -1.26 | -1.49 | -1.08 | -0.98 | +0.07 | -0.31 | +0.79 | +1.09 | +1.79 | +2.16 | +2.42 | +2.81 | +1.63 | +0.65 | +0.31 | -0.51 | -1.17 | -1.49 | -1.68 | -0.92 | -0.85 | -0.93 | -0.82 | -0.23 | |
| Aug. | -0.61 | -0.58 | -0.23 | -0.48 | -0.45 | -0.07 | +0.34 | +0.96 | +1.51 | +1.98 | +2.16 | +1.58 | +1.14 | -0.64 | -0.44 | -0.48 | -1.17 | -1.79 | +0.03 | -0.66 | -0.70 | -0.40 | -0.52 | -0.49 | |
| Sept. | +0.74 | +2.88 | +0.74 | -2.39 | -1.66 | -1.64 | +0.30 | +0.26 | +1.37 | +2.62 | +2.91 | +1.76 | +0.10 | -0.11 | -0.30 | -0.86 | -1.20 | -1.16 | -1.15 | -0.45 | -0.17 | -0.46 | +1.03 | -3.17 | |
| Oct. | -1.51 | -1.55 | -1.73 | -1.46 | -2.01 | -1.58 | -1.51 | -0.37 | +0.04 | +1.21 | +1.69 | +1.83 | +1.76 | +1.50 | +1.35 | +1.58 | +0.95 | +0.50 | -0.15 | -0.26 | +0.09 | +0.79 | -0.14 | -1.00 | |
| Nov. | -0.50 | -0.79 | -0.86 | -0.99 | -1.22 | -1.32 | -0.99 | -0.70 | -0.78 | +0.44 | +1.28 | +1.57 | +1.29 | +1.23 | +0.78 | +1.27 | +1.00 | +1.09 | +0.65 | -0.06 | -0.26 | -1.04 | -0.77 | -0.31 | |
| Dec. | -0.48 | -0.69 | -0.85 | -0.50 | -0.73 | -1.12 | -1.32 | -1.62 | -0.92 | -0.59 | -0.02 | -0.03 | -0.15 | +0.08 | +0.27 | +1.36 | +1.79 | +1.49 | +1.45 | +1.34 | +1.20 | +0.21 | -0.25 | +0.08 | |
| Year | -0.75 | -0.52 | -0.71 | -0.99 | -1.04 | -1.06 | -0.59 | -0.22 | +0.30 | +1.13 | +1.57 | +1.41 | +1.00 | +0.59 | +0.44 | +0.03 | +0.06 | -0.08 | -0.09 | -0.04 | -0.03 | -0.01 | -0.09 | -0.31 | |
| Winter | -0.49 | -0.53 | -0.66 | -0.58 | -0.84 | -1.11 | -1.09 | -0.99 | -0.87 | -0.01 | +0.45 | +0.54 | +0.49 | +0.47 | +0.69 | +0.98 | +1.18 | +1.15 | +0.88 | +0.57 | +0.33 | -0.15 | -0.31 | -0.09 | |
| Equinox | -0.60 | -0.03 | -0.85 | -1.74 | -1.77 | -1.57 | -0.81 | -0.37 | +0.43 | +1.48 | +1.77 | +1.47 | +1.02 | +0.79 | +0.58 | +0.40 | +0.14 | +0.25 | +0.17 | +0.16 | +0.07 | +0.09 | +0.14 | -1.23 | |
| Summer | -1.14 | -1.00 | -0.63 | -0.67 | -0.51 | -0.51 | +0.12 | +0.71 | +1.33 | +1.92 | +2.49 | +2.22 | +1.49 | +0.51 | +0.06 | -0.67 | -1.13 | -1.63 | -1.34 | -0.85 | -0.48 | +0.04 | -0.10 | -0.22 | |
| HORIZONTAL COMPONENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +3.8 | -2.1 | +2.6 | +3.7 | +7.3 | +11.4 | +12.3 | +13.9 | +14.6 | +4.1 | -3.0 | -4.1 | -1.2 | -4.1 | -18.6 | -6.3 | -10.3 | -11.6 | -9.5 | -5.7 | -3.6 | +3.9 | +3.2 | -0.7 | |
| Feb. | +6.2 | +6.5 | +6.0 | +5.1 | +8.0 | +10.5 | +9.8 | +2.9 | +4.8 | -11.5 | -10.0 | -9.9 | +14.0 | -6.5 | -2.0 | -3.7 | -6.4 | -4.1 | +0.2 | +3.3 | +6.8 | -3.9 | +0.6 | +1.3 | |
| Mar. | +4.4 | +7.5 | +16.7 | +26.2 | +25.7 | +21.3 | +5.6 | +1.1 | -13.5 | -30.0 | -30.5 | -25.1 | +21.8 | +15.5 | +5.1 | +7.0 | +8.5 | +1.3 | -5.0 | +4.5 | +2.5 | +4.15 | +11.5 | +1.9 | |
| Apr. | +12.7 | +7.1 | +9.0 | +7.3 | +10.3 | +8.9 | +9.9 | +7.7 | -0.8 | -11.1 | -17.1 | -20.1 | +18.7 | +13.9 | +7.2 | -2.3 | +4.9 | +6.9 | +5.5 | +2.3 | +1.8 | +3.1 | -4.1 | -2.1 | |
| May | +15.6 | +14.9 | +5.4 | +8.1 | +15.5 | +14.0 | +5.5 | +5.7 | -17.0 | -29.1 | -50.6 | -41.1 | +36.4 | +23.5 | +6.0 | +21.5 | +35.1 | +38.2 | +41.1 | +21.7 | +6.8 | -13.3 | -17.0 | -3.7 | |
| June | +17.3 | +5.8 | +3.4 | +3.3 | +2.2 | +3.6 | -0.3 | -10.4 | -19.8 | -32.5 | -40.6 | -39.0 | +22.1 | -12.8 | +1.4 | +10.9 | +14.8 | +32.8 | +38.5 | +12.4 | +1.5 | +4.2 | +1.2 | -0.8 | |
| July | +13.8 | +14.1 | +7.8 | +5.1 | -13.2 | -7.1 | -20.6 | -22.7 | -30.0 | -33.5 | -37.2 | -43.1 | -23.4 | -6.5 | +0.8 | +14.3 | +25.8 | +31.9 | +35.8 | +24.7 | +21.8 | +20.7 | +15.8 | +4.9 | |
| Aug. | +4.6 | +7.0 | -4.8 | +0.4 | +1.6 | -0.7 | -5.4 | -13.6 | -22.0 | -31.1 | -35.8 | -28.4 | -21.8 | +5.9 | +6.4 | +10.6 | +23.2 | +37.1 | +15.8 | +21.8 | +17.6 | +3.7 | +7.8 | -7.8 | |
| Sept. | -37.0 | -80.9 | -41 | | | | | | | | | | | | | | | | | | | | | | |

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, SEASONS AND YEAR
The ranges are derived from the diurnal inequalities printed in Tables 24 to 29

30 ESKDALEMUIR

1966

| | All days | | | Quiet days | | | Disturbed days | | | All days | | | Quiet days | | | Disturbed days | | |
|---------|-----------|-----------|----------|------------|-----------|----------|----------------|-----------|-----------|----------|------|------|------------|------|------|----------------|------|-------|
| | X | -Y | Z | X | -Y | Z | X | -Y | Z | D | I | H | D | I | H | D | I | H |
| Jan. | γ 10.1 | γ 21.7 | γ 9.7 | γ 7.0 | γ 12.4 | γ 3.6 | γ 33.7 | γ 46.4 | γ 27.6 | 4.46 | 0.77 | 8.5 | 2.52 | 0.39 | 6.6 | 9.59 | 2.71 | 33.2 |
| Feb. | 14.2 | 27.1 | 12.2 | 11.9 | 17.4 | 6.6 | 29.2 | 51.4 | 37.8 | 5.80 | 0.68 | 11.6 | 3.81 | 0.56 | 9.6 | 10.90 | 2.02 | 24.5 |
| Mar. | 28.3 | 38.3 | 22.3 | 25.4 | 30.9 | 14.6 | 65.0 | 76.7 | 82.7 | 8.34 | 1.61 | 25.4 | 6.52 | 1.29 | 23.7 | 17.30 | 4.25 | 56.7 |
| Apr. | 36.8 | 53.0 | 28.4 | 42.5 | 46.7 | 20.6 | 38.8 | 67.9 | 55.2 | 11.22 | 1.89 | 35.9 | 10.02 | 2.36 | 42.2 | 14.37 | 1.83 | 32.8 |
| May | 50.3 | 52.1 | 31.4 | 41.6 | 47.7 | 24.0 | 90.9 | 77.1 | 63.0 | 10.74 | 2.72 | 51.4 | 9.66 | 2.29 | 41.6 | 14.78 | 4.43 | 91.7 |
| June | 53.0 | 58.0 | 28.1 | 56.0 | 58.0 | 23.4 | 75.4 | 67.6 | 44.2 | 11.77 | 3.11 | 54.7 | 11.82 | 3.21 | 56.0 | 13.08 | 4.43 | 79.1 |
| July | 47.4 | 57.7 | 24.7 | 41.6 | 51.8 | 22.1 | 77.0 | 58.3 | 61.9 | 11.25 | 2.71 | 48.8 | 10.66 | 2.51 | 43.7 | 12.38 | 4.49 | 78.9 |
| Aug. | 46.0 | 63.4 | 29.6 | 45.4 | 60.5 | 22.2 | 69.1 | 82.8 | 69.2 | 12.88 | 2.54 | 47.1 | 12.22 | 2.81 | 45.8 | 16.66 | 3.95 | 72.9 |
| Sept. | 46.9 | 52.9 | 44.5 | 39.2 | 43.6 | 17.4 | 121.3 | 131.2 | 191.6 | 10.75 | 2.85 | 46.5 | 8.58 | 2.43 | 39.6 | 25.02 | 6.08 | 131.9 |
| Oct. | 34.5 | 36.6 | 18.3 | 29.5 | 32.7 | 13.3 | 54.0 | 69.2 | 59.0 | 8.24 | 1.90 | 30.3 | 6.72 | 1.67 | 29.0 | 14.99 | 3.84 | 49.7 |
| Nov. | 23.9 | 28.1 | 14.1 | 17.1 | 18.8 | 5.8 | 45.0 | 45.6 | 36.9 | 6.25 | 1.52 | 22.4 | 4.00 | 0.98 | 16.4 | 10.49 | 2.89 | 39.6 |
| Dec. | 13.0 | 26.9 | 18.2 | 13.2 | 18.2 | 7.9 | 33.0 | 57.5 | 62.5 | 5.63 | 0.91 | 11.8 | 3.86 | 0.63 | 11.9 | 11.50 | 3.41 | 33.6 |
| Year | 29.9 | 38.8 | 21.1 | 29.2 | 35.1 | 13.5 | 41.0 | 54.2 | 56.5 | 8.02 | 1.52 | 29.5 | 7.26 | 1.66 | 28.9 | 11.44 | 2.63 | 40.5 |
| Winter | 14.4 | 25.5 | 12.5 | 11.2 | 16.5 | 5.3 | 23.8 | 41.1 | 38.8 | 5.43 | 0.84 | 13.0 | 3.45 | 0.58 | 10.5 | 8.66 | 2.29 | 22.5 |
| Equinox | 32.6 | 44.8 | 24.4 | 31.3 | 37.9 | 14.6 | 48.2 | 74.5 | 86.1 | 9.27 | 1.90 | 32.0 | 7.82 | 1.79 | 31.2 | 15.38 | 3.54 | 45.0 |
| Summer | 49.1 | 57.3 | 27.9 | 45.8 | 53.9 | 21.8 | 71.7 | 63.3 | 51.8 | 11.54 | 2.73 | 50.1 | 10.89 | 2.69 | 46.4 | 12.84 | 4.12 | 76.2 |

NON-CYCLIC CHANGE

31 ESKDALEMUIR

1966

| | All days | | | Quiet days | | | Disturbed days | | | H | D | Z | H | D | Z | H | D | Z |
|---------|-----------|------------|-----------|------------|------------|-----------|----------------|------------|------------|---|---|---|---|---|---|---|---|---|
| | H | D | Z | H | D | Z | H | D | Z | | | | | | | | | |
| Jan. | γ +0.2 | ' -0.01 | γ 0.0 | γ +2.2 | ' +0.22 | γ -0.7 | γ -3.0 | ' -0.27 | γ +0.9 | | | | | | | | | |
| Feb. | γ +0.2 | ' +0.01 | γ 0.0 | γ +1.8 | ' +0.34 | γ +0.9 | γ -3.4 | ' -0.22 | γ +6.0 | | | | | | | | | |
| Mar. | γ -0.1 | ' -0.02 | γ +0.3 | γ +5.1 | ' +0.15 | γ -4.1 | γ +2.9 | ' +3.52 | γ +12.3 | | | | | | | | | |
| Apr. | γ 0.0 | ' -0.20 | γ -0.1 | γ +2.6 | ' +0.14 | γ -0.9 | γ -10.2 | ' -0.58 | γ +2.5 | | | | | | | | | |
| May | γ +0.5 | ' -0.26 | γ -1.0 | γ +1.7 | ' +0.31 | γ -0.9 | γ -10.5 | ' -3.26 | γ -12.6 | | | | | | | | | |
| June | γ -0.2 | ' +0.16 | γ +0.8 | γ +4.5 | ' +0.28 | γ -0.8 | γ -5.2 | ' +1.42 | γ +8.4 | | | | | | | | | |
| July | γ +0.5 | ' -0.01 | γ 0.0 | γ +5.0 | ' -0.27 | γ -1.7 | γ -9.9 | ' +0.79 | γ +2.0 | | | | | | | | | |
| Aug. | γ -0.7 | ' -0.04 | γ +0.6 | γ +2.7 | ' +0.22 | γ -0.5 | γ -1.7 | ' +1.13 | γ +8.9 | | | | | | | | | |
| Sept. | γ -0.2 | ' +0.02 | γ -0.4 | γ +2.4 | ' +0.32 | γ +3.2 | γ -6.7 | ' +0.48 | γ -5.1 | | | | | | | | | |
| Oct. | γ -0.2 | ' -0.03 | γ 0.0 | γ +3.2 | ' -0.22 | γ -1.6 | γ -4.6 | ' +0.93 | γ +0.8 | | | | | | | | | |
| Nov. | γ +0.2 | ' +0.01 | γ +0.4 | γ +4.0 | ' -0.24 | γ -1.4 | γ -1.7 | ' +0.17 | γ -0.5 | | | | | | | | | |
| Dec. | γ -0.7 | ' +0.01 | γ +0.2 | γ +1.0 | ' +0.19 | γ -0.1 | γ -10.4 | ' +0.94 | γ -5.6 | | | | | | | | | |
| Year | 0.0 | -0.03 | +0.1 | +3.0 | +0.12 | -0.7 | -5.4 | +0.42 | +1.5 | | | | | | | | | |
| Winter | 0.0 | +0.01 | +0.1 | +2.3 | +0.13 | -0.3 | -4.6 | +0.15 | +0.2 | | | | | | | | | |
| Equinox | -0.1 | -0.06 | -0.1 | +3.3 | +0.10 | -0.9 | -4.7 | +1.09 | +2.6 | | | | | | | | | |
| Summer | 0.0 | -0.04 | +0.1 | +3.5 | +0.13 | -1.0 | -6.8 | +0.02 | +1.7 | | | | | | | | | |

AVERAGE RANGE OF DIURNAL INEQUALITY 1932-53

WITH 1966 AS PERCENTAGE OF THIS

32 ESKDALEMUIR

1966

| | All days | | | International quiet days | | | International disturbed days | | | H | D | Z | H | D | Z | H | D | Z |
|---------|----------|------|-------|--------------------------|------|-------|------------------------------|------|-------|-------|----|----|----|-----|-----|----|----|----|
| | H | D | Z | H | D | Z | H | D | Z | | | | | | | | | |
| Year | 1932-53 | 37.8 | 8.66 | 28.7 | 34.4 | 8.43 | 13.7 | 53.9 | 11.93 | 82.1 | 78 | 93 | 75 | 96 | 69 | | | |
| | 1966(%) | 78 | 93 | 74 | 84 | 86 | 99 | | | | | | | | | | | |
| Winter | 1932-53 | 19.3 | 6.95 | 21.2 | 16.2 | 4.44 | 5.9 | 34.4 | 11.45 | 66.5 | 67 | 78 | 65 | 76 | 58 | | | |
| | 1966(%) | 67 | 78 | 59 | 65 | 78 | 90 | | | | | | | | | | | |
| Equinox | 1932-53 | 43.1 | 10.18 | 37.1 | 39.7 | 9.69 | 14.8 | 75.4 | 15.11 | 108.9 | 74 | 91 | 60 | 102 | 79 | | | |
| | 1966(%) | 74 | 91 | 66 | 79 | 81 | 99 | | | | | | | | | | | |
| Summer | 1932-53 | 59.7 | 11.84 | 33.9 | 50.4 | 11.76 | 21.9 | 83.7 | 13.11 | 82.4 | 84 | 97 | 92 | 93 | 100 | 91 | 98 | 63 |
| | 1966(%) | 84 | 97 | 82 | 92 | 93 | 100 | | | | | | | | | | | |

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF GEOMAGNETIC FORCE
Values of a_n , b_n in the series $\sum (a_n \cos 15nt + b_n \sin 15nt)$, t being reckoned in hours from midnight GMT
Longitude of Eskdalemuir Observatory, 3°12'W.

33 ESKDALEMUIR

1966

| | North component | | | | | | | | West component | | | | | | | | Vertical component | | | | | | | |
|----------------|-----------------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| | a_1 | b_1 | a_2 | b_2 | a_3 | b_3 | a_4 | b_4 | a_1 | b_1 | a_2 | b_2 | a_3 | b_3 | a_4 | b_4 | a_1 | b_1 | a_2 | b_2 | a_3 | b_3 | a_4 | b_4 |
| ALL DAYS | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | +1.2 | +3.0 | -1.5 | -1.8 | +0.7 | -1.3 | +0.1 | +0.3 | -7.2 | -1.0 | -0.2 | +4.0 | -0.6 | -0.5 | +0.5 | +1.0 | +1.5 | -4.3 | -1.8 | 0.0 | +0.3 | 0.0 | -0.5 | -0.1 |
| Feb. | +3.9 | +2.4 | -2.9 | -1.2 | +1.0 | -0.5 | -0.3 | +0.4 | -7.9 | -2.0 | +1.1 | +5.3 | +0.2 | -0.7 | +1.3 | +1.1 | +1.6 | -5.2 | -2.5 | +0.1 | +0.3 | +0.5 | -0.7 | -0.3 |
| Mar. | +9.7 | +0.7 | -6.7 | +0.8 | +2.5 | -1.7 | -0.8 | +0.3 | -10.8 | -8.3 | +1.8 | +6.9 | -2.1 | -4.7 | +1.5 | +2.8 | +2.2 | -8.3 | -4.1 | -0.2 | +2.5 | +0.7 | -0.8 | -0.6 |
| Apr. | +14.6 | -0.1 | -9.2 | -0.9 | +3.7 | -0.1 | -0.1 | +1.1 | -8.2 | -15.0 | +2.7 | +11.3 | -1.6 | -5.4 | +1.3 | +1.6 | +5.7 | -5.5 | -6.5 | -1.9 | +2.2 | +1.5 | -0.4 | -0.3 |
| May | +15.1 | -6.2 | -11.8 | +1.8 | +2.0 | +0.8 | +1.2 | +1.0 | -8.1 | -17.1 | +4.3 | +11.3 | -1.9 | -2.0 | +1.3 | +0.6 | +6.1 | -6.4 | -7.8 | -1.2 | +1.5 | +0.9 | -0.5 | +0.1 |
| June | +15.6 | -7.6 | -11.8 | +1.2 | +1.2 | -0.3 | +1.3 | +1.3 | -4.7 | -21.1 | +4.7 | +11.6 | -2.4 | -2.1 | +0.4 | +0.1 | +6.4 | -3.8 | -6.7 | -2.2 | +1.2 | +0.2 | -0.9 | -0.4 |
| July | +15.9 | -8.7 | -9.1 | -2.2 | +0.9 | -0.6 | +0.4 | +0.5 | -6.6 | -21.1 | +2.7 | +10.3 | -2.7 | -4.0 | -0.5 | +0.6 | +4.2 | -7.5 | -5.1 | -2.5 | +1.4 | +0.5 | -0.9 | 0.0 |
| Aug. | +15.9 | -7.6 | -9.2 | +3.2 | +1.9 | -2.3 | +0.1 | +0.7 | -10.2 | -19.2 | +6.5 | +12.1 | -3.9 | -3.1 | +0.1 | +1.3 | +3.1 | -6.3 | -8.1 | -1.7 | +2.5 | +0.9 | +0.3 | -0.1 |
| Sept. | +10.9 | -10.0 | -9.2 | +3.7 | -0.1 | -4.5 | +1.7 | -1.0 | -14.7 | -13.8 | +6.0 | +7.2 | -4.7 | -3.5 | +2.3 | +2.2 | -6.8 | -14.7 | -10.0 | -1.5 | +1.3 | +0.9 | -0.7 | +0.3 |
| Oct. | +13.5 | +0.9 | -6.5 | -0.6 | +3.0 | -1.2 | +0.2 | +1.2 | -10.3 | -7.5 | +1.3 | +8.3 | -2.6 | -3.7 | +1.1 | +2.1 | +0.5 | -6.7 | -3.3 | -0.8 | +1.5 | +0.1 | -1.4 | -0.7 |
| Nov. | +7.8 | +2.5 | -4.9 | -0.7 | +2.6 | -1.9 | -0.3 | +0.1 | -8.7 | -3.2 | -1.5 | +5.5 | -1.3 | -1.6 | +1.2 | +1.9 | +0.1 | -6.4 | -2.3 | -0.9 | +0.2 | -0.1 | -0.7 | -0.1 |
| Dec. | +3.5 | +2.2 | -2.2 | -1.4 | +1.4 | -1.1 | +0.5 | +0.7 | -9.7 | -0.3 | -0.7 | +5.3 | +0.4 | -0.8 | +0.2 | +0.9 | +0.1 | -7.5 | -3.7 | +0.3 | +0.6 | -0.3 | -0.5 | -0.9 |
| Year | +10.0 | -2.4 | -7.1 | +0.5 | +1.7 | -1.3 | +0.3 | +0.6 | -8.9 | -10.8 | +2.4 | +8.2 | -1.9 | -2.7 | +0.9 | +1.3 | +2.1 | -6.9 | -5.2 | -1.0 | +1.3 | +0.5 | -0.6 | -0.2 |
| Winter | +4.1 | +2.5 | -2.9 | -1.3 | +1.4 | -1.2 | 0.0 | +0.4 | -8.4 | -1.7 | -0.3 | +5.0 | -0.3 | -0.9 | +0.8 | +1.2 | +0.8 | -5.9 | -2.6 | -0.2 | +0.4 | 0.0 | -0.6 | -0.4 |
| Equinox | +12.2 | -2.1 | -7.9 | +0.8 | +2.3 | -1.9 | +0.3 | +0.4 | -11.0 | -11.1 | +3.0 | +8.4 | -2.7 | -4.2 | +1.6 | +2.2 | +0.4 | -8.8 | -6.0 | -1.1 | +1.9 | +0.8 | -0.8 | -0.3 |
| Summer | +15.6 | -7.5 | -10.5 | +2.1 | +1.5 | -0.7 | +0.8 | +0.9 | -7.4 | -19.7 | +4.6 | +11.3 | -2.7 | -2.8 | +0.3 | +0.6 | +5.0 | -6.0 | -6.9 | -1.9 | +1.6 | +0.6 | -0.5 | +0.1 |
| QUIET DAYS | | | | | | | | | | | | | | | | | | | | | | | | |
| Year | +10.0 | -2.3 | -6.5 | +0.1 | +1.6 | -1.1 | -0.1 | +0.6 | -3.8 | -10.4 | +3.5 | +6.5 | -2.4 | -2.8 | +0.7 | +1.0 | +4.2 | -0.8 | -3.6 | -0.1 | +1.4 | +0.1 | -0.5 | 0.0 |
| Winter | +2.9 | +0.2 | -3.2 | -1.0 | +1.0 | -1.0 | -0.2 | +0.3 | -4.2 | -3.2 | +0.2 | +3.0 | -1.6 | -1.4 | +0.5 | +0.8 | +1.4 | -1.1 | -1.0 | +0.3 | +0.7 | -0.1 | -0.4 | -0.1 |
| Equinox | +11.3 | -1.9 | -6.4 | +0.7 | +2.3 | -1.6 | -0.5 | +1.2 | -4.7 | -10.3 | +4.2 | +6.3 | -2.9 | -3.5 | +1.4 | +1.7 | +4.6 | -1.0 | -3.8 | +0.1 | +1.8 | -0.1 | -0.8 | 0.0 |
| Summer | +15.9 | -5.1 | -10.0 | +0.9 | +1.6 | -0.9 | +0.4 | +0.4 | -2.7 | -17.7 | +5.9 | +10.1 | -2.8 | -3.4 | 0.0 | +0.4 | +6.5 | -0.5 | -6.1 | -0.8 | +1.7 | +0.4 | -0.5 | 0.0 |
| DISTURBED DAYS | | | | | | | | | | | | | | | | | | | | | | | | |
| Year | +13.2 | -4.7 | -10.4 | +1.8 | +1.9 | -1.9 | +1.0 | +0.4 | -18.8 | -8.2 | +0.2 | +11.3 | 0.0 | -2.9 | +1.4 | +0.8 | -4.3 | -21.2 | -8.9 | -2.4 | +1.1 | +2.6 | +1.5 | -0.6 |
| Winter | +7.9 | +8.4 | -3.1 | -1.9 | +0.7 | -2.0 | -0.7 | +2.0 | -15.2 | -4.4 | -1.3 | +8.7 | +2.9 | -1.7 | 0.0 | +0.7 | -2.5 | -15.6 | -6.4 | +2.0 | +0.6 | +2.2 | -0.2 | -1.5 |
| Equinox | +13.3 | -4.7 | -13.1 | +3.6 | +0.9 | -3.5 | +1.7 | -2.7 | -25.7 | -6.6 | +0.3 | +10.9 | -1.9 | -5.9 | +2.5 | +1.0 | -13.7 | -31.0 | -13.2 | -1.7 | +1.7 | +3.5 | +0.4 | -0.8 |
| Summer | +18.5 | -14.6 | -15.0 | +5.2 | +4.0 | +0.7 | +2.0 | +2.0 | -15.6 | -22.2 | +1.5 | +14.1 | -1.1 | -1.2 | +1.8 | +0.7 | +0.1 | -18.5 | -9.7 | -4.9 | +1.1 | +1.9 | +0.3 | +0.5 |

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF GEOMAGNETIC FORCE
Values of c_n , a_n in the series $\sum c_n \sin(15nt) + a_n$, t being mean local time, reckoned in hours from midnight

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| | North component | | | | | | | | West component | | | | | | | | Vertical component | | | | | | | |
|----------|-----------------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|
| | c_1 | a_1 | c_2 | a_2 | c_3 | a_3 | c_4 | a_4 | c_1 | a_1 | c_2 | a_2 | c_3 | a_3 | c_4 | a_4 | c_1 | a_1 | c_2 | a_2 | c_3 | a_3 | c_4 | a_4 |
| ALL DAYS | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | 3.3 | 25 | 2.3 | 225 | 1.5 | 162 | 0.4 | 28 | 7.3 | 265 | 4.0 | 3 | 0.7 | 240 | 1.1 | 37 | 4.6 | 163 | 1.8 | 277 | 0.3 | 98 | 0.5 | 270 |
| Feb. | 4.5 | 61 | 3.2 | 254 | 1.1 | 127 | 0.5 | 337 | 8.1 | 259 | 5.4 | 19 | 0.7 | 172 | 1.7 | 64 | 5.5 | 167 | 2.5 | 279 | 0.6 | 41 | 0.8 | 263 |
| Mar. | 9.7 | 89 | 6.8 | 283 | 3.1 | 134 | 0.9 | 304 | 13.6 | 236 | 7.2 | 21 | 5.2 | 214 | 3.2 | 42 | 8.6 | 169 | 4.2 | 273 | 2.6 | 83 | 1.0 | 245 |
| Apr. | 14.6 | 93 | 9.2 | 271 | 3.6 | 102 | 1.1 | 6 | 17.1 | 212 | 11.6 | 20 | 5.6 | 206 | 2.1 | 52 | 7.9 | 137 | 6.8 | 260 | 2.7 | 67 | 0.5 | 251 |
| May | 16.3 | 116 | 11.9 | 285 | 2.1 | 77 | 1.6 | 63 | 18.9 | 208 | 12.1 | 27 | 2.7 | 233 | 1.4 | 79 | 8.8 | 140 | 7.9 | 268 | 1.8 | 67 | 0.6 | 294 |
| June | 17.3 | 119 | 11.9 | 282 | 1.2 | 114 | 1.8 | 59 | 21.6 | 196 | 12.5 | 28 | 3.1 | 238 | 0.5 | 88 | 7.4 | 124 | 7.1 | 258 | 1.2 | 90 | 1.0 | 305 |
| July | 18.1 | 122 | 9.3 | 290 | 1.1 | 133 | 0.6 | 55 | 22.1 | 201 | 10.7 | 21 | 4.8 | 224 | 0.7 | 331 | 8.6 | 154 | 5.7 | 250 | 1.4 | 81 | 0.9 | 285 |
| Aug. | 17.7 | 119 | 9.8 | 295 | 2.9 | 149 | 0.7 | 18 | 21.8 | 211 | 13.8 | 35 | 4.9 | 241 | 1.3 | 19 | 7.1 | 157 | 8.3 | 264 | 2.6 | 79 | 0.3 | 116 |
| Sept. | 14.8 | 136 | 9.9 | 299 | 4.5 | 191 | 2.0 | 133 | 20.2 | 230 | 9.4 | 46 | 5.8 | 243 | 3.2 | 59 | 16.2 | 208 | 10.2 | 268 | 1.6 | 64 | 0.7 | 303 |
| Oct. | 13.6 | 89 | 6.6 | 271 | 3.2 | 122 | 1.2 | 21 | 12.8 | 237 | 8.5 | 15 | 4.5 | 225 | 2.4 | 41 | 6.7 | 179 | 3.4 | 263 | 1.6 | 94 | 1.6 | 255 |
| Nov. | 8.2 | 75 | 5.0 | 268 | 3.2 | 135 | 0.4 | 294 | 9.3 | 253 | 5.7 | 351 | 2.1 | 229 | 2.2 | 46 | 6.4 | 182 | 2.5 | 254 | 0.2 | 132 | 0.7 | 277 |
| Dec. | 4.1 | 61 | 2.6 | 244 | 1.7 | 137 | 0.9 | 47 | 9.7 | 271 | 5.4 | 359 | 0.9 | 162 | 0.9 | 25 | 7.5 | 183 | 3.8 | 281 | 0.7 | 125 | 1.0 | 219 |
| Year | 10.9 | 106 | 7.1 | 281 | 2.1 | 136 | 0.7 | 41 | 14.0 | 223 | 8.5 | 23 | 3.3 | 225 | 1.6 | 47 | 7.2 | 167 | 5.3 | 265 | 1.4 | 79 | 0.7 | 265 |
| Winter | 4.8 | 61 | 3.2 | 252 | 1.8 | 139 | 0.4 | 14 | 8.5 | 262 | 5.0 | 3 | 0 | | | | | | | | | | | |

NOTEWORTHY GEOMAGNETIC DISTURBANCES AT ESKDALEMUIR

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(a) Disturbances without sudden commencement

All times GMT

| Serial Number | From | | To | | Range (γ) | | | Notes |
|---------------|---------|------|---------|------|--------------------|-----|-----|-------|
| | Date | Hour | Date | Hour | H | D | Z | |
| 1a | 13 Mar. | 17 | 14 Mar. | 19 | 196 | 279 | 214 | |
| 2a | 23 Mar. | 08 | 23 Mar. | 24 | 270 | 327 | 274 | |
| 3a | 28 Mar. | 09 | 29 Mar. | 05 | 234 | 127 | 138 | |
| 4a | 3 Sept. | 09 | 4 Sept. | 23 | 1027 | 517 | 910 | |
| 5a | 4 Oct. | 20 | 5 Oct. | 21 | 193 | 172 | 151 | |
| 6a | 14 Dec. | 13 | 15 Dec. | 03 | 246 | 251 | 318 | |

(b) Disturbances with sudden commencement (ssc)

All times GMT

| Serial Number | Date | Time of sudden commencement | End of disturbance | | With initial reversed stroke | | | Magnitude of main stroke (γ) | | | Range of following disturbance (γ) | | |
|---------------|----------|-----------------------------|--------------------|------|------------------------------|-----|-----|---------------------------------------|-----|----|---|-----|-------|
| | | | Date | Hour | H | D | Z | H | D | Z | H | D | Z |
| 1b | 1 Apr. | 12 37 | 2 Apr. | 07 | Yes | Yes | Yes | +44 | -27 | -5 | 106 | 196 | 118 |
| 2b | 25 May | 23 28 | 27 May | 03 | No | No | No | +36 | -9 | -5 | 346 | 217 | 267 |
| 3b | 31 May | 03 42 | 1 June | 07 | No | Yes | No | +12 | -21 | -2 | 204 | 173 | 152 |
| 4b | 15 July | 15 00 | - | - | Yes | Yes | Yes | +21 | -9 | -4 | | | small |
| 5b | 29 Aug. | 13 15 | 30 Aug. | 06 | Yes | Yes | Yes | +87 | -41 | -6 | 186 | 178 | 45 |
| 6b | 30 Aug. | 11 12 | 31 Aug. | 03 | Yes | Yes | No | +95 | ↑ | -8 | 272 | 286 | 222 |
| 7b | 23 Sept. | 08 56 | 23 Sept. | 24 | Yes | Yes | Yes | +49 | +41 | -6 | 103 | 99 | 103 |
| 8b | 15 Oct. | 09 55 | 16 Oct. | 23 | Yes | Yes | Yes | +32 | +19 | -4 | 111 | 115 | 40 |
| 9b | 17 Nov. | 17 21 | - | - | Yes | Yes | No | +27 | -6 | -2 | | | small |

In the case of an ssc*, that is, an ssc preceded, on at least one component, by one or more small oscillations, timing of the sudden commencement has been made from the main stroke.

* Three consecutive sudden movements -6, +17, -27.

(c) Disturbances due to solar flare (sfe)

All times GMT

| Serial Number | Date | Commencement | Max. | End | Movement (γ) | | | K | K' | Notes |
|---------------|----------|--------------|-------|-------|-----------------------|-----|----|---|----|------------------------|
| | | | | | H | D | Z | | | |
| 1c | 20 Mar. | 09 55 | 09 59 | 10 11 | -25 | +20 | 0 | 2 | 2 | Solar flare ended 1345 |
| 2c | 30 Mar. | 12 48 | 12 53 | 13 20 | -24 | -12 | -5 | 3 | 2 | SEA. Complete SWF. |
| 3c | 28 Aug. | 15 26 | 15 31 | 15 47 | -7 | -24 | 0 | 2 | 2 | SEA. Complete SWF. |
| 4c | 18 Sept. | 14 54 | 15 00 | 15 15 | -4 | -5 | +1 | 1 | 1 | SEA. Severe SWF. |
| 5c | 21 Sept. | 09 33 | 09 35 | 09 47 | -13 | +6 | +2 | 2 | 2 | SEA. Severe SWF. |

SEA = Sudden enhancement of atmospherics

SWF = Short wave fade out.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometers and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 0*n* days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

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Factor 2-31

MARCH 1966

| | Hour | GMT | Factor 2-31 | | | | | | | | | | | | | | | | | | | | | | | | Mean |
|-------------------|------------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-------------|-------------|------|------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | |
| volts per metre | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 135 | 100 | 105 | 105 | 105 | 85 | 85 | 100 | 105 | 120 | 195 | 170 | 135 ⁺ | 180 ⁺ | 155 ⁺ | 200 ⁺ | 215 ⁺ | 200 ⁺ | 210 | 230 | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 125 | 105 | 165 | | | | | 125 | | 110 ⁺ | 105 ⁺ | 115 ⁺ | 95 ⁺ | 90 ⁺ | 180 ⁺ | 115 ⁺ | 190 ⁺ | 165 ⁺ | 130 | 135 | 190 | 185 | 180 | 155 | 140 | | |
| 6 | 210 ⁺ | 180 | 140 | 130 | 155 | 215 | | | | | | | | | | | | | | | | | | | | | |
| 7 | 20 ⁺ | 50 ⁺ | 35 ⁺ | 50 ⁺ | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 165 | 165 | 145 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | 55 ⁺ | 40 ⁺ | 70 ⁺ | 70 ⁺ | 110 ⁺ | 65 ⁺ | 140 ⁺ | 35 ⁺ | 140 ⁺ | 115 ⁺ | 120 ⁺ | 95 ⁺ | 120 ⁺ | 110 ⁺ | 170 | 140 | 180 | 130 | 110 | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 0a | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 0a | 105 | 80 ⁺ | 80 | 60 | 100 | 60 ⁺ | 80 | 100 | 85 | 110 | 145 | 130 | 115 | 135 | 140 | 130 | 110 | 100 | 165 | 185 | 170 | 135 | 124 | (21) | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 185 | 150 | 135 | 145 | 110 | 110 | 135 | 145 | 155 | 135 | 155 | 145 ⁺ | 165 ⁺ | 190 ⁺ | 130 ⁺ | 135 ⁺ | 155 ⁺ | 215 ⁺ | 265 | 275 | 290 | 245 | 190 | 250 | 184 | (24) | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 185 | 185 | 180 | 200 ⁺ | 165 | 120 | 220 | 230 | 280 | 210 | 130 | 175 ⁺ | 175 | 160 | 130 | 115 | 125 | 165 | 185 | 230 | 300 | 315 | | | | | |
| 18 0a | 310 | 265 | 255 | 230 | 180 | 170 | 165 | 125 | 200 | 385 | 420 ⁺ | 355 | 260 | 340 | 350 | 300 | 250 ⁺ | 340 ⁺ | 55 ⁺ | 105 | 275 | 320 | 300 | 255 | | | |
| 19 | 135 | 105 | 90 | 65 ⁺ | 120 | 215 | 315 | 300 | 265 | 230 | 220 | 145 | 140 ⁺ | 125 ⁺ | 125 ⁺ | 120 ⁺ | 150 ⁺ | 170 ⁺ | 145 | 55 ⁺ | 45 ⁺ | 90 ⁺ | | | | | |
| 20 | 250 ⁺ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 125 | 95 | 90 | 85 | 90 | 95 | 95 | 110 | 135 | 130 | 125 | 155 | 175 | 170 | 165 | 130 ⁺ | 210 | 170 | 155 | 230 | 140 | 280 | 255 | 200 | 200 | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 0a | 125 | 110 | 115 | 125 | 125 | 135 | 115 | 80 | 90 | 105 | 95 ⁺ | 105 ⁺ | 90 ⁺ | 65 ⁺ | 105 ⁺ | 105 ⁺ | 105 ⁺ | 80 ⁺ | 130 ⁺ | 260 | 165 | 295 | 295 | 111 | (23) | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 65 | | 95 ⁺ | 95 | 95 | 100 | 105 | 115 | 90 ⁺ | | | | | | | | | | | | | | | | | | |
| Mean | 161 (15) | 134 (14) | 119 (18) | 111 (17) | 118 (17) | 136 (12) | 141 (12) | 138 (12) | 144 (15) | 150 (15) | 164 (15) | 146 (18) | 147 (15) | 154 (16) | 143 (16) | 146 (14) | 156 (13) | 153 (14) | 154 (15) | 166 (17) | 187 (19) | 183 (19) | 166 (18) | 181 (14) | 150 | | |
| Fair Weather Mean | 151 (13) | 148 (12) | 139 (13) | 125 (12) | 130 (14) | 140 (16) | 144 (11) | 145 (11) | 152 (12) | 175 (10) | 182 (8) | 198 (7) | 183 (5) | 170 (7) | 171 (7) | 168 (5) | 149 (7) | 138 (8) | 175 (10) | 172 (10) | 201 (15) | 196 (17) | 175 (16) | 181 (14) | 163 | | |
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POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| Factor 2·44 | | | | | | | | | | | | | MAY 1966 | | | | | | | | | | | | |
|-------------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | Hour GMT | | | | | | | | | | | | Mean | | | | | | | | | | | | |
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | |
| 1 0a | 25 | 40 | 30 | 40 | 55 | 35 | 60 | 90 | 135 | 145 | 185 | 225 | 220 | 180 | 150 | 130 | 110 | 95 | 80 | 95 | 45 | 35 | 60 | 55 | |
| 2 | 75 | 55 | 70 | 70 | 55 | 85 | 90 | 75 | 85 | 115 | 90 | 75 | 85 | 90 | 95 | 70 | 65 | 90 | 30+ | 25+ | 35+ | 30 | 40 | 25 | |
| 3 | 25+ | 25+ | 30+ | 25+ | 45+ | 35+ | 60+ | 35+ | 30+ | 45+ | 35+ | 45+ | 35+ | 45+ | 70 | 65 | 90 | 100 | 65+ | 55+ | 45+ | 145 | 140 | 115 | |
| 4 | | 75 | 35+ | 45+ | 75 | 115 | 125 | 120+ | 115 | | | | | | | | | 125+ | | | 150+ | 145+ | 140+ | 135+ | |
| 5 | 80 | | | | | 100+ | 95 | 100 | | | | | | | | | | | | | | | | | |
| 6 | 145 | 30+ | | | | 80 | 105 | 145 | 105 | 135 | 150 | 115 | 150 | 130 | 100 | 110 | 105 | 140 | 125 | 135 | 140 | 205 | 160 | 130 | |
| 7 | 110 | 120 | 150 | 135 | 125 | 145 | 160 | 150 | 190+ | 150+ | 125+ | 110+ | 95+ | 90+ | 120+ | 110 | 115 | 120 | 135 | 190 | 80 | 105 | 95 | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | 55+ | |
| 9 0a | 80 | 85 | 85 | 95 | 120 | 115+ | 145+ | 115 | 90+ | 65+ | 135+ | 155+ | 140+ | 145 | 150 | 135+ | 130 | 115 | 100 | 85 | 75 | 75 | 75 | 70 | |
| 10 0a | 65 | 70 | 55 | 60 | | | | | 85+ | 135+ | 125 | 120+ | 160 | 210 | 205 | 170 | 155 | 205 | 195 | 185 | 175 | 110 | 85 | 110 | 134 (24) |
| 11 | 175 | | | | | 100 | 80 | | | | | | 155+ | 170+ | 170+ | 170 | 140 | 150 | 150 | 130 | 140 | 125 | 105 | 135 | |
| 12 | 35+ | | | | | | 230+ | 265+ | 165+ | | | | 170 | 145 | 135 | 130 | 115 | | | | | | | | |
| 13 | | | | | | | | | 205 | 215 | 220 | 155 | | | | | | | | | | | | | |
| 14 | | | | | | | | | 105+ | 130+ | | 125 | | | | | | | | | | | | | |
| 15 | 140 | | | | | | | | | 220+ | 210 | 160+ | 135+ | 130+ | 150+ | 150+ | 170 | 170 | 155 | 130 | 125 | 80 | 85 | 80 | |
| 16 | 65 | 70 | 85 | 75 | 75 | 90 | 100 | 55 | 60 | 35+ | 95 | 110 | 125 | 130 | 135 | 150 | 125 | 65+ | 45+ | 50+ | 60+ | 65 | | | |
| 17 | 80 | 90 | 85 | 105 | 55 | 35+ | | | | | | | 125+ | 130+ | 125 | 130 | 150 | 95+ | 150 | 170 | 165 | 135 | 100 | 130 | 80 |
| 18 | 75 | 65 | | | | 90 | 130+ | 160+ | 170+ | 175+ | 285+ | 95+ | | | | | | 120+ | 105+ | 130 | 125 | 130 | 115 | 95 | |
| 19 | 175 | 180 | 105 | 100 | | | | | 165+ | | | | 130+ | 90+ | | | | | | | | | | | |
| 20 | 135+ | | | | | | | | | | | | 120 | 130 | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | 125 | 135+ | 125+ | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | 125 | 130 | 135 | 150 | 125 | 65+ | 45+ | 50+ | 60+ | 60+ | 60+ | 65 | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 150 | 135 | 145 | 110 | 100 | 255 | 330+ | 220 | | | | | 230+ | 220+ | 190+ | 180+ | 185+ | 215+ | 230 | 220 | 205 | 195 | 195 | 180+ | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 140 | 105 | 140 | 145 | 60 | 75+ | 125+ | 115+ | 130+ | 115+ | 95+ | 90+ | 120+ | 135 | 155 | 140+ | 105+ | 80+ | 190+ | 155 | 145 | 135 | 160 | 140 | |
| 28 0a | 155 | 145 | 115 | 95 | 105+ | 115+ | 135 | 140 | 135 | 145 | 155 | 145 | 135 | 145 | 140 | 130 | 120 | 120 | 120 | 160 | 105 | 105 | 95 | 75 | 126 (24) |
| 29 | 85 | 70 | 35+ | 45+ | 50+ | 115 | 130 | 100 | 165 | 155 | 145 | 140 | 155 | 160 | 155 | 145 | 120 | 95 | 75 | 75+ | 35+ | 60 | 60 | 60 | |
| 30 | 50 | 40+ | 45 | 55 | 50 | 75 | 110 | 125 | 120 | 135 | 145 | 135 | 115+ | 95+ | 80+ | 80 | 85 | 70+ | 50+ | 40+ | 45+ | 40 | 50 | 55 | |
| 31 0a | 45 | 40 | 45 | 70 | 85 | 110 | 145 | 135 | 175 | 175 | 180 | 160 | 140 | 120 | 100 | 115 | 135 | 90 | 110 | 140 | 250 | 220 | 215 | 190 | 133 (24) |
| Mean | 96 | 80 | 82 | 94 | 76 | 104 | 134 | 121 | 129 | 134 | 142 | 134 | 135 | 133 | 130 | 128 | 128 | 133 | 127 | 124 | 125 | 132 | 117 | 110 | 119 |
| Fair Weather Mean | 101 | 90 | 89 | 101 | 78 | 97 | 125 | 112 | 135 | 161 | 143 | 141 | 140 | 145 | 143 | 137 | 127 | 132 | 147 | 116 | 120 | 109 | | 124 | |
| | (23) | (18) | (17) | (18) | (15) | (18) | (19) | (19) | (22) | (18) | (19) | (21) | | (20) | (21) | (21) | (20) | (20) | (20) | (22) | (20) | (22) | (20) | (22) | [119 (5)] |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| 35 | ESKDALEMUIR | Factor 2-42 | | | | | | | | | | | | | | | | | | | | JUNE 1966 | | | | | | | | |
|-------------------|-------------|-------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|------|-----|------|
| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | | |
| 1 | 0a | 155 | 115 | 115 | 115 | 115 | 145 | 215 | 250 | 245 | 250 | 190 | 165 | 125 | 115 | 95+ | 65+ | 125+ | 130+ | 120 | 105+ | 55+ | 100+ | 105 | 150 | 165 | 142 | (24) | | |
| 2 | | 165 | 155+ | 105+ | 100+ | 130 | 100 | 115 | 105 | 90+ | 225 | 200 | 85+ | 125+ | 115+ | 10+ | 70+ | 95+ | 115+ | 80+ | 75+ | 105+ | 65+ | 85 | 95 | 140 | 100 | | | |
| 4 | | 20+ | 70+ | 75+ | 160 | 155 | 165 | 195 | 175 | 225 | 200 | 85+ | 125+ | 115+ | 115+ | 170 | 155 | 165 | 175 | 155 | 130 | 65+ | 85 | 85 | 55+ | 140 | 100 | | | |
| 5 | | 75+ | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0a | 155 | 115 | 70 | 60+ | 90+ | 120 | 120 | 145 | 120 | 125 | 150+ | 135 | 100+ | 100+ | 170+ | 155 | 165+ | 165+ | 160 | 155 | 135 | 105+ | 105+ | 95+ | 120 | 115 | 100 | 150 | (17) |
| 8 | | 90 | 120 | 5+ | 10+ | 20+ | 25+ | | | | | | | | | 95 | 95+ | 65+ | 60+ | 40+ | 25+ | 25+ | 30+ | 50+ | 30+ | 25+ | 20+ | 15+ | 15+ | |
| 9 | | 10+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | 230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | 116 | 99 | 79 | 110 | 141 | 153 | 179 | 154 | 182 | 160 | 146 | 119 | 119 | 113 | 123 | 113 | 115 | 117 | 114 | 122 | 98 | 102 | 109 | 114 | 110 | 125 | | | |
| Fair Weather Mean | | 148 | 101 | 80 | 139 | 139 | 132 | 140 | 137 | 178 | 161 | 175 | 157 | 157 | 113 | 117 | 126 | 131 | 145 | 117 | 121 | 128 | 159 | 139 | 135 | 139 | 139 | 136 | | |
| | | (17) | (15) | (14) | (18) | (17) | (15) | (13) | (17) | (19) | (14) | (19) | (19) | (19) | (19) | (20) | (20) | (16) | (17) | (15) | (18) | (20) | (21) | (20) | (17) | (15) | (146) | (2) | | |

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 08 days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

MEAN VALUES FOR HOURS WITHOUT HYDROMETERS AND FOR FAIR WEATHER HOURS

35 ESKDALE MUIR

Factor 2.47

JULY 1966

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

Mean values for hours without hydrometeors and for fair weather hours.

35 ESDALEMUIR

Factor 2·45

AUGUST 1966

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometers and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 0s days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours.

| 35 ESKDALEMUIR | | | | | | | | | | | | | Factor 2-41 | | | | | | | | | | | | | SEPTEMBER 1966 | | | |
|-------------------|----------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------|-----------|----------------|------|--|--|
| | Hour GMT | | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | 144 | 149 | 137 | 120 | 108 | 95 | 111 | 134 | 129 | 127 | 117 | 124 | 152 | 156 | 159 | 159 | 148 | 148 | 153 | 150 | 146 | 146 | 150 | 169 | 139 | | |
| Fair Weather Mean | | | 177 | 158 | 137 | 128 | 122 | 132 | 153 | 148 | 131 | 137 | 111 | 128 | 170 | 177 | 159 | 167 | 170 | 181 | 194 | 192 | 208 | 199 | 173 | 195 | 160 | | |
| | | | | | | | | | | | | | | | | | | | | | | | Mean of 0a days | | [187 (6)] | | | | |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| 35 ESKDALEMUIR | | | | | | | | | | | | | Factor 2-42 | | | | | | | | | | | | | OCTOBER 1966 | | | |
|-------------------|----------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-------|-----------|--------------|------|-----|--|
| | Hour GMT | | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 0a | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | 171 | 153 | 155 | 167 | 184 | 185 | 153 | 130 | 150 | 154 | 139 | 139 | 145 | 153 | 165 | 165 | 173 | 202 | 197 | 245 | 243 | 252 | 231 | 205 | 193 | 179 | |
| Fair Weather Mean | | | 189 | 171 | 166 | 168 | 156 | 166 | 155 | 126 | 148 | 139 | 121 | 142 | 162 | 162 | 175 | 178 | 202 | 199 | 225 | 244 | 251 | 239 | 225 | 207 | 180 | | |
| | | | | | | | | | | | | | | | | | | | | | | | Mean of 0a days | | [174 (5)] | | | | |

35 ESKDALEMUIR

Factor 2:42

NOVEMBER 1966

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

35 ESKDALEMUIR

Factor 2·42

DECEMBER 1966

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for 0s days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Monthly, seasonal and annual means for hours without hydrometeors and for fair weather hours

36 ESKDALEMUIR

1966

| | Hour GMT 0-1 1-2 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 10-11 11-12 | | | | | | | | | | | | volts per metre No hydrometeors | | | | | | | | | | | | |
|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 12-13 13-14 14-15 15-16 16-17 17-18 18-19 19-20 20-21 21-22 22-23 23-24 | | | | | | | | | | | | | Mean | | | | | | | | | | | |
| Jan. | 143 | 143 | 121 | 133 | 119 | 122 | 159 | 155 | 112 | 122 | 157 | 179 | 199 | 206 | 185 | 206 | 187 | 179 | 208 | 182 | 169 | 171 | 161 | 149 | 161 |
| Feb. | 154 | 142 | 138 | 167 | 175 | 160 | 123 | 170 | 156 | 176 | 149 | 178 | 203 | 216 | 226 | 232 | 207 | 240 | 261 | 275 | 285 | 240 | 189 | 181 | 193 |
| Mar. | 161 | 134 | 119 | 111 | 118 | 136 | 141 | 138 | 144 | 150 | 164 | 146 | 147 | 154 | 143 | 146 | 156 | 153 | 154 | 166 | 187 | 183 | 166 | 181 | 150 |
| Apr. | 96 | 89 | 77 | 85 | 87 | 99 | 106 | 101 | 108 | 127 | 111 | 123 | 126 | 136 | 129 | 110 | 106 | 125 | 114 | 108 | 103 | 108 | 105 | 88 | 107 |
| May | 96 | 80 | 82 | 94 | 76 | 104 | 134 | 121 | 129 | 134 | 142 | 134 | 135 | 133 | 130 | 128 | 128 | 133 | 127 | 124 | 125 | 132 | 117 | 110 | 119 |
| June | 116 | 99 | 79 | 110 | 141 | 153 | 179 | 154 | 182 | 160 | 146 | 119 | 113 | 123 | 113 | 115 | 117 | 114 | 122 | 98 | 102 | 109 | 114 | 110 | 125 |
| July | 103 | 99 | 98 | 95 | 92 | 112 | 125 | 125 | 141 | 142 | 143 | 138 | 138 | 136 | 141 | 128 | 138 | 143 | 132 | 130 | 119 | 119 | 107 | 123 | |
| Aug. | 73 | 65 | 70 | 61 | 72 | 83 | 110 | 118 | 137 | 127 | 130 | 109 | 104 | 112 | 108 | 104 | 113 | 112 | 103 | 90 | 87 | 89 | 83 | 77 | 97 |
| Sept. | 144 | 149 | 137 | 120 | 108 | 95 | 111 | 134 | 129 | 127 | 117 | 124 | 152 | 156 | 159 | 159 | 148 | 148 | 153 | 150 | 146 | 146 | 150 | 169 | 139 |
| Oct. | 171 | 153 | 155 | 167 | 184 | 185 | 153 | 130 | 150 | 154 | 139 | 139 | 145 | 153 | 165 | 173 | 202 | 197 | 245 | 243 | 252 | 231 | 205 | 193 | 179 |
| Nov. | 148 | 134 | 117 | 117 | 118 | 129 | 138 | 152 | 139 | 167 | 152 | 157 | 149 | 133 | 167 | 182 | 199 | 256 | 270 | 240 | 212 | 169 | 167 | 154 | 165 |
| Dec. | 206 | 184 | 174 | 141 | 144 | 111 | 114 | 125 | 127 | 127 | 150 | 173 | 197 | 189 | 205 | 208 | 239 | 213 | 205 | 239 | 243 | 249 | 272 | 243 | 187 |
| Year | 134 | 123 | 114 | 117 | 119 | 124 | 132 | 135 | 137 | 143 | 142 | 144 | 151 | 154 | 155 | 159 | 161 | 167 | 175 | 171 | 170 | 162 | 154 | 147 | 145 |
| Winter | 163 | 151 | 137 | 139 | 139 | 131 | 133 | 151 | 133 | 148 | 152 | 172 | 187 | 186 | 196 | 207 | 208 | 222 | 236 | 234 | 227 | 207 | 197 | 182 | 177 |
| Equinox | 143 | 131 | 122 | 121 | 124 | 129 | 128 | 126 | 133 | 139 | 133 | 133 | 143 | 150 | 149 | 147 | 153 | 156 | 167 | 172 | 167 | 157 | 158 | 144 | 144 |
| Summer | 97 | 86 | 82 | 90 | 95 | 113 | 134 | 129 | 143 | 141 | 140 | 126 | 123 | 127 | 122 | 122 | 121 | 124 | 111 | 111 | 112 | 108 | 101 | 116 | 116 |
| Fair weather | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | 151 | 145 | 135 | 140 | 119 | 148 | 156 | 138 | 129 | 128 | 154 | 158 | 217 | 197 | 195 | 203 | 181 | 183 | 220 | 198 | 186 | 179 | 182 | 170 | 167 |
| Feb. | 207 | 164 | 147 | 167 | 139 | 163 | 147 | 163 | 176 | 178 | 186 | 242 | 315 | 327 | 326 | 308 | 252 | 259 | 271 | 263 | 238 | 233 | 221 | 212 | 221 |
| Mar. | 151 | 148 | 139 | 125 | 130 | 140 | 144 | 145 | 152 | 175 | 182 | 198 | 183 | 170 | 171 | 168 | 149 | 138 | 175 | 172 | 201 | 196 | 175 | 181 | 163 |
| Apr. | 85 | 77 | 72 | 90 | 66 | 84 | 65 | 102 | 113 | 150 | 135 | 146 | 143 | 151 | 151 | 116 | 113 | 131 | 103 | 105 | 101 | 102 | 110 | 96 | 109 |
| May | 101 | 90 | 89 | 101 | 78 | 97 | 125 | 112 | 135 | 161 | 143 | 141 | 145 | 143 | 137 | 127 | 132 | 136 | 140 | 145 | 147 | 116 | 120 | 109 | 124 |
| June | 148 | 101 | 80 | 139 | 139 | 132 | 140 | 137 | 178 | 161 | 175 | 157 | 113 | 117 | 126 | 131 | 145 | 117 | 121 | 128 | 159 | 139 | 135 | 139 | 136 |
| July | 115 | 119 | 99 | 106 | 104 | 109 | 122 | 129 | 134 | 156 | 171 | 187 | 186 | 156 | 184 | 159 | 150 | 133 | 151 | 157 | 130 | 145 | 123 | 124 | 139 |
| Aug. | 83 | 71 | 88 | 115 | 127 | 141 | 144 | 143 | 144 | 110 | 145 | 111 | 120 | 118 | 122 | 127 | 124 | 119 | 128 | 109 | 113 | 114 | 104 | 82 | 117 |
| Sept. | 177 | 158 | 137 | 128 | 122 | 132 | 153 | 148 | 131 | 137 | 111 | 128 | 170 | 177 | 159 | 167 | 170 | 181 | 194 | 192 | 208 | 199 | 173 | 195 | 160 |
| Oct. | 189 | 171 | 166 | 168 | 156 | 166 | 155 | 126 | 148 | 139 | 121 | 142 | 162 | 162 | 175 | 178 | 202 | 199 | 225 | 244 | 251 | 239 | 225 | 207 | 180 |
| Nov. | 160 | 165 | 138 | 130 | 120 | 166 | 128 | 128 | 141 | 127 | 135 | 166 | 150 | 144 | 166 | 173 | 177 | 199 | 223 | 205 | 214 | 189 | 184 | 165 | 162 |
| Dec. | 177 | 179 | 179 | 161 | 145 | 109 | 129 | 123 | 123 | 117 | 142 | 176 | 199 | 146 | 162 | 140 | 126 | 156 | 190 | 231 | 203 | 211 | 206 | 207 | 164 |
| Year | 145 | 132 | 122 | 131 | 120 | 132 | 134 | 133 | 142 | 145 | 150 | 163 | 175 | 167 | 173 | 166 | 160 | 163 | 178 | 179 | 179 | 172 | 163 | 157 | 153 |
| Winter | 174 | 163 | 150 | 149 | 131 | 147 | 140 | 138 | 142 | 137 | 154 | 185 | 220 | 203 | 212 | 206 | 184 | 199 | 226 | 224 | 210 | 203 | 198 | 189 | 179 |
| Equinox | 151 | 139 | 129 | 128 | 119 | 131 | 129 | 130 | 136 | 150 | 137 | 153 | 165 | 165 | 164 | 157 | 159 | 162 | 174 | 178 | 190 | 184 | 171 | 170 | 153 |
| Summer | 112 | 95 | 89 | 115 | 112 | 120 | 133 | 130 | 148 | 147 | 159 | 149 | 141 | 133 | 142 | 136 | 138 | 126 | 135 | 137 | 129 | 121 | 113 | 129 | 120 |

Annual mean for 0a days [157]

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

KEW

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4.55

JANUARY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | |
|-------------------|------|-----|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | 265+ | 245+ | 210+ | | | | | | | | | | | | | | | | | | | | | | | |
| 3 S | | | 220 | 185 | 95 | 130 | 85 | 35 | 185 | 385 | 655 | 665 | 710 | 690 | 490 | 445 | 435 | 490 | 700 | 575 | 545 | 560 | 645 | 685 | 685 | 645 | | |
| 4 S | | | 385+ | 385+ | 335+ | | | | | | | | | | | | | | | | | | | | | | | |
| 5 S | | | 265+ | 200+ | 95+ | 55+ | 80+ | 35+ | 70+ | 85+ | | | | | | | | | | | | | | | | | | |
| 6 S | | | 455 | 385 | 290 | 360 | 335 | 385 | 445 | 585 | 875 | 780 | 770 | 675 | 655 | 745 | 785 | 910 | 945 | 865 | 855 | 900 | 900 | 760 | 615 | 575 | | |
| 7 | | | 515+ | | | | | 315+ | 430+ | | | 675+ | 710+ | 630+ | 595 | 575 | 675 | 735 | 575 | 745 | 760+ | 770+ | | | | | | |
| 8 S | | | | 500+ | 420+ | 360+ | 340+ | 235+ | 270+ | 315+ | 430 | 665 | 685 | 465 | 620 | 725 | 760 | 840 | 980 | 945 | 865 | 865 | 830 | 865 | 805 | 805 | | |
| 9 S | | | 690 | 595 | 585 | 455 | 455 | 265 | 60 | 200 | 305 | 575 | 535 | 335 | 490 | 340 | 280 | 315 | 255 | 335 | 445 | 690 | 755 | 700 | 615 | 640 | 630 | |
| 10 S | | | 630 | 545 | 490 | 475 | 545 | 490 | 515 | 710 | 840 | 910 | 865 | 855 | 895 | 805 | 760 | 840+ | 770+ | 545+ | 505+ | 385+ | 375+ | 365+ | 325+ | | | |
| 11 | | | 290+ | 200+ | 105+ | 0+ | 15+ | 130+ | 195+ | 385+ | 505+ | 575+ | 645+ | 620+ | 490+ | 420+ | 420+ | 455+ | 465+ | 430+ | 445+ | 410+ | 325+ | 295 | 280 | 210 | | |
| 12 | | | 195 | 175 | 140 | -20+ | -110+ | | | | | | | | | | | | | | | | | | | | | |
| 13 S | | | 255 | 210 | 200 | 195 | 185 | 185 | 265 | 490 | 785+ | | | | | | | | | | | | | | | | | |
| 14 S | | | 365 | 265 | 255 | 280 | 295 | 335 | 385 | 595 | 875 | 855+ | 805+ | 615+ | 575+ | 595+ | 475+ | 500 | 505 | 645 | 735 | 690 | 515 | 365 | 521 | (24) | | |
| 15 | | | 95 | 255 | 60 | 0 | 195 | 225 | 375 | 315 | 395 | 445 | 435 | 405 | 455 | 455 | 515 | 405 | 360 | 280 | | | | | | | 483 | (24) |
| 16 | | | 10 | 35 | 0 | -35 | 55 | 60 | | 125+ | | | | | | | | | | | | | | | | | | |
| 17 | | | 210+ | 375+ | 295+ | | | | | | | | | | | | | | | | | | | | | | | |
| 18 S | | | 665 | 545 | 500 | 475 | 315 | 155 | 335 | 420 | 630 | 785 | 645 | 575 | 525 | 525 | 685 | 665 | 700 | 645 | 630 | 545 | 435 | 455 | 539 | (24) | | |
| 19 S | | | 435 | 410 | 475 | 490 | 745 | 595 | 755+ | 795+ | 785+ | 895+ | 965+ | 1050+ | 1105+ | 885+ | 925+ | 785+ | 755+ | 830+ | 855+ | 645+ | 630+ | 455+ | | | | |
| 20 | | | 365+ | 315+ | 335+ | 220+ | 200+ | 140+ | -20+ | 25+ | | | | | | | | | | | | | | | | | | |
| 21 | | | -130+ | -35+ | -10+ | -20+ | -35+ | -10+ | -95+ | | | | | | | | | | | | | | | | | | | |
| 22 | | | 480+ | 665+ | 225+ | -110+ | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | -185+ | -230+ | -150+ | -205+ | -220+ | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | 270+ | 245+ | 245+ | 185+ | 140+ | 140+ | 175+ | 210+ | | | | | | | | | | | | | | | | | | |
| 25 | | | 270+ | 245+ | 245+ | 185+ | 140+ | 140+ | 175+ | 210+ | | | | | | | | | | | | | | | | | | |
| 26 | | | 200+ | 175+ | 225+ | | | | 150+ | 350+ | | | | | | | | | | | | | | | | | | |
| 27 S | | | 105 | 105 | 80 | 45 | 45 | | | 80 | 55 | 115 | 225 | 280 | 315 | 235 | 315 | 315 | 375 | 505 | 700 | 675 | 725 | | | | 338 | (24) |
| 28 S | | | | 165+ | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | 290 | 305 | 295 | 255 | 175 | 185 | 225 | 210 | 315 | 185 | | | | | | | | | | | | | | | | |
| 30 | | | 225 | 210 | 225 | 200 | 235 | 270 | 270 | 295 | 405 | 445 | 435 | 420 | 365 | 315 | 315 | 335 | 315 | 365 | 395 | 405 | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | | | 314 | 266 | 241 | 183 | 195 | 205 | 257 | 308 | 542 | 586 | 585 | 582 | 546 | 484 | 494 | 523 | 501 | 527 | 541 | 544 | 584 | 491 | 440 | 392 | 430 | |
| Fair Weather Mean | | | 331 | 302 | 264 | 248 | 282 | 265 | 285 | 387 | 541 | 545 | 569 | 531 | 550 | 526 | 538 | 544 | 563 | 583 | 603 | 608 | 631 | 540 | 467 | 435 | 464 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Mean for selected quiet days

[541 (8)]

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4.50

FEBRUARY 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | |
|------|------|-----|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1 S | | | 475 | 395 | 335 | 265 | 150 | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | 195 | 140 | 140 | 160 | 220 | 230 | 265 | 150 | 220 | 600+ | 680+ | 565 | 430 | 360 | 335 | 405 | 370 | 380 | 380 | 300 | 280 | 300 | 310 | 210 | 380 | 245 |
| 3 | | | 310+ | 315+ | 245+ | 345+ | 315+ | 230+ | | | | | | | 415 | 475 | 360 | 335 | 335 | 325 | | | | | | | | |
| 4 | | | 160+ | 90+ | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | 335+ | 195+ | 80+ | 70+ | | 105+ | | 125+ | | | | | | | | | | | | | | | | | | |
| 6 S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 S | | | 350 | 360 | 265 | 245 | 245 | 315 | 460 | 510 | 555 | 580 | 570 | 555 | 380 | 475 | 495 | 450 | 475 | 415 | 425 | 360 | 380 | 370 | 405 | 424 | (24) | |
| 8 | | | 115+ | 105+ | | | | 105+ | 70+ | 175+ | 310+ | 335+ | 360+ | 405+ | 310+ | 290+ | 315+ | 345+ | 345+ | 315+ | 240+ | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | 315+ | 155+ | 240+ | 245+ | 230+ | 265+ | 380+ | 20+ | 90+ | 175+ | 130+ | 130+ | 380+ | 445+ | 420+ | 475+ | 475+ | 415+ | 395+ | 385+ | 385+ | 385+ | 385+ | 385+ | 380+ | |
| 11 | | | -295+ | -130+ | -200+ | -75+ | -55+ | -85+ | 55+ | 90+ | 175+ | 130+ | 130+ | 130+ | | | | | | | | | | | | | | |
| 12 | | | 210 | 105 | 125 | 70+ | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | 55+ | 90+ | -75+ | -120+ | -10+ | -10+ | 35+ | 20+ | 90+ | | | | | | | | | | | | | | | | | |
| 14 S | | | 265 | 245 | 130 | 175 | 185 | 300 | 370 | 475 | 635 | 720 | 730 | 660 | 240+ | 245+ | 245+ | 245+ | 245+ | 300 | 325 | 325 | 310 | 300 | 300 | 420 | (24) | |
| 15 S | | | 370 | 350 | 275 | 210 | 240 | 150 | 175 | 300 | 275 | 210 | | | 240+ | 495 | 530 | 670 | 605 | 315 | 150 | 245 | 280 | 315 | 298 | (24) | | |
| 16 S | | | 185+ | 25+ | -145+ | -165+ | 20+ | 45+ | 160+ | 385+ | 605+ | 625+ | 565+ | 495+ | 635+ | 635+ | 845+ | 730+ | 545 | 460 | 405 | 300 | 245 | 230 | 220 | 200 | 388 | (24) |
| 17 S | | | 185 | 140 | 140 | 140 | 80 | 165 | 335 | 520 | 465 | 605 | 615 | 565 | 580 | 615 | 635 | 705 | 695 | 660 | 670 | 605 | 565 | 485 | 475 | 350 | 490 | (24) |
| 18 S | | | 230 | 385 | 245 | 240 | 210 | 280 | 370+ | 600+ | 775+ | 720+ | 615+ | 335 | 315 | 370 | 420 | 440 | 460 | 465 | 580 | 580 | 465 | 465 | 465 | 465 | | |
| 19 | | | | | 130+ | | | | | | | | | | | | | | | | | | | | | | | |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4.60

MARCH 1966

| | Hour GMT | | | | | | | | | | | | Factor 4.60 | | | | | | | | | | | | | | |
|------------------------------|----------|------|------|------|------|------|------|------|------|------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | volts per metre | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | |
| 1 S | 380 | 345 | 310 | 330 | 320 | 365 | 400 | 630 | 645 | 655 | 600 | 380 | 300 | 280 | 290 | 255 | 200+ | | | | | | | | 280+ | 145+ | 90+ |
| 2 S | 35+ | 45+ | 75+ | 110+ | 110+ | 110+ | 90+ | 180+ | 225+ | 290 | 300 | 290 | 290 | 235 | 235 | 255 | 320 | 330 | 320 | 365 | 320 | 275 | 225 | 175 | 217 | (24) | |
| 3 | 155+ | 80+ | | | | 80+ | 190 | 375 | 490 | 510 | 290 | 380 | 365 | 380 | 420 | | | | | 510+ | 800+ | 765+ | 600+ | 565+ | | | |
| 4 | 375+ | 475+ | 410+ | 390+ | 410+ | 265+ | | | | | 620+ | 455+ | 455 | 435 | 400 | 400 | 435 | 400 | 355 | 345 | 235 | 175 | 155 | 190 | | | |
| 5 S | 175 | 175 | 235 | 135 | 155 | 155 | 220 | 375 | 500 | 580 | 600 | 545 | 430 | 345 | 275 | 255 | 275 | 330 | 430 | 400 | 375 | 290 | 200 | 235 | 320 | (24) | |
| 6 S | 275 | 280 | 220 | 220 | 220 | 255 | 280 | 310 | 330 | 320 | 290 | 245 | 320 | 330 | 335 | 335 | 275 | 280 | 300 | 375 | 375 | 380 | 335 | 335 | | | |
| 7 S | 300 | 290 | 265 | 255 | 210 | 220 | 280 | 320 | 365 | 390 | 290 | 280 | 255 | 265 | 275 | 280 | 290 | 335 | 365 | 355 | 380 | 375 | 245 | 180 | 304 | (24) | |
| 8 S | 200 | 210 | 200 | 175 | 180 | 265 | 265 | 345 | 365 | 330 | 365 | 455 | 490 | 435 | 345 | 330 | 290 | 330 | 290 | 280 | 245 | 218 | 220 | 281 | (24) | | |
| 9 S | 175 | 255 | 275 | 300 | 320 | 180 | 235 | 335 | 420 | 475 | 430 | 365 | 355 | 300 | 300 | 280 | 290 | 320 | 400 | 475 | 355 | 155 | 225 | 255 | 311 | (24) | |
| 10 | 235+ | 235+ | 200+ | 190+ | | | | | | 55+ | 175+ | 275+ | 180+ | | | | 210+ | 175+ | 165+ | 225+ | 265+ | | | | | | |
| 11 | 310+ | 200+ | | | | 190+ | 235+ | 245+ | 310 | 410 | 430 | 355 | 335 | 320 | | | 280+ | 345+ | 300 | 310 | 265 | 280 | 235 | 180 | | | |
| 12 S | 120 | 120 | 120 | 120 | 145 | 180 | 165+ | 245+ | | | 210+ | 190+ | | 210 | 245 | 225 | 200 | 165 | 175 | 235 | 245 | 275 | 290 | 245 | | | |
| 13 S | 220 | 180 | 245 | 190 | 135 | 135 | 90 | 125 | 245 | 275 | 265 | 310 | 225 | 225 | 220 | 220 | 210 | 200 | 310 | 455 | 345 | 290 | 220 | 310 | 218 | (24) | |
| 14 | 375+ | 155+ | 200+ | 135+ | 175+ | 135+ | 180+ | 400+ | 480 | 530 | 575 | 535 | 455 | 420 | 420 | 455 | 565 | 435 | 500 | 420 | 245 | 280 | 365 | 235 | | | |
| 15 | 120 | 100 | 110 | 180 | 190 | 255 | 290 | 380 | 465 | 510 | 420 | 380 | 490 | 435 | 400 | 410 | 380 | 420 | 455 | 375 | 280 | 175 | 400 | 335 | | | |
| 16 S | 200+ | 175+ | 100+ | | | | | 275+ | 310+ | 310 | 365 | 345 | 420 | 490 | 365 | 330 | 345 | 345 | 455 | 520 | 490 | 290 | 255 | 235 | | | |
| 17 S | 200 | 165 | 210 | 190 | 235 | 235 | 220 | 280 | 355 | 365 | 330 | 345 | 355 | 310 | 310 | 320 | 335 | 365 | 330 | 335 | 335 | 255 | 180 | 289 | (24) | | |
| 18 | 265 | 100 | 165 | 235 | 175 | 235 | 330 | 455 | 400 | 345 | 290 | 310 | 290 | 335 | 320 | 310 | 345 | 365 | 420 | 335 | 220 | 110 | 45 | | | | |
| 19 | 35 | 125 | 155 | 180 | 200 | 200 | 55 | 35 | 120 | 100 | 220 | 235 | 435 | 500 | 410 | 375 | 330 | 320 | 330 | 335 | 280 | 380 | 300 | | | | |
| 20 | 255+ | 245+ | 210+ | 145+ | 125+ | | | | | | 520+ | 510+ | 435 | 420 | 355 | 330 | 330 | 245 | 300 | 290 | 255 | 245 | 135 | 110 | | | |
| 21 S | 65 | 75 | 180 | 220 | 190 | 200 | 280 | 280 | 290 | 345 | 400 | 365 | 300 | 320 | 290 | 365 | 345 | 355 | 380 | 365 | 235 | 210 | 275 | 275 | | | |
| 22 S | 235 | 245 | 210 | 245 | 220 | 255 | 400 | 610 | 565 | 575 | 555 | 365 | 255 | 290 | 275 | 255 | 310 | 310 | 400 | 275 | 235 | 190 | 235 | 324 | (24) | | |
| 23 | 225 | 220 | 200 | 220 | 220 | 200 | 300 | 365 | 335 | 330 | 290+ | | 225+ | 235+ | 335+ | 335+ | 310 | 310 | 290 | 335 | 335 | 280 | | | | | |
| 24 | 255 | 220 | 200 | 190 | 200 | 275 | 455 | 490 | 380 | 335+ | 290+ | | | | | | | | | | 280 | 165 | 165 | 200 | | | |
| 25 | 165 | 165 | 190 | 200 | 220 | 235 | 365 | 400 | 345 | 320 | 265 | 265 | | | | | | | | | | | | 280 | 255 | 265 | |
| 26 | 330+ | 330+ | 355+ | 310+ | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 75+ | 35+ | 10+ | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | 90+ | 55+ | 75+ | 100+ | 145+ | 220+ | 330+ | 400+ | 365+ | 355+ | 355+ | 380+ | | 180+ | 175+ | 145+ | 155+ | 180+ | 180 | 180 | 180 | 180 | 180 | 180 | 90+ | 20+ | |
| 29 S | 120 | 180 | 235 | 180 | 225 | 275 | 455 | 530 | 490 | 435 | 400 | 330 | 275 | 275 | 290 | 290 | 255 | 255 | 310 | 345 | 345 | 365 | 365 | 220 | | | |
| 30 S | 190 | 180 | 180 | 190 | 190 | 200 | 420 | 380 | 335 | 280 | 290 | 280 | 220 | 220 | 245 | 235 | 235 | 235 | 245 | 180 | 255 | 255 | 255 | 255 | 272 | (24) | |
| 31 S | 165 | 165 | 145 | 110 | 155 | 200 | 330 | 345 | 365 | 420 | 330 | 310 | 210 | 210 | 255 | 220 | 255 | 220 | 280 | 210 | 200 | 255 | 75 | 239 | (24) | | |
| Mean | 204 | 188 | 196 | 201 | 204 | 209 | 277 | 360 | 384 | 386 | 358 | 348 | 334 | 312 | 303 | 293 | 302 | 311 | 346 | 359 | 333 | 284 | 256 | 216 | 290 | | |
| Fair Weather Mean | 194 | 190 | 203 | 203 | 205 | 219 | 293 | 375 | 395 | 398 | 374 | 356 | 343 | 327 | 311 | 299 | 307 | 309 | 344 | 350 | 296 | 264 | 248 | 213 | 292 | | |
| Mean for selected quiet days | | | | | | | | | | | | | | | | | | | | | | | | [277] | (10) | | |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

| | Hour GMT | | | | | | | | | | | | Factor 4.56 | | | | | | | | | | | | | | | |
|------|----------|------|-------|------|------|-------|------|------|------|------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | volts per metre | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | |
| 1 S | 160 | 215 | 180 | 235 | 155 | 180 | 335 | 430 | 360 | 295 | 290 | 200 | 215 | 270 | 250 | 290 | 280 | 290 | 360 | 450 | 395 | 370 | 0+ | 271 | (24) | | | |
| 2 | 180 | 160 | 170 | 160 | 145 | 145 | | | | | | 145+ | 160+ | | | | | | | -265+ | -245+ | -115+ | -105+ | 0+ | | | | |
| 3 S | 0+ | -95+ | -265+ | -85+ | -75+ | -150+ | 0+ | 45+ | 55+ | | | | | 90+ | 70+ | 100+ | 135+ | 110+ | 110+ | 70 | 110 | 180 | 180 | 160 | 225 | | | |
| 4 S | 200 | 160 | 145 | 115 | 245 | 340 | 505 | 630 | 730 | 610 | 540 | 395 | 340+ | 515 | 450 | 295 | 305 | 270 | 170 | 65 | 70 | 190 | 110 | 180 | 326 | (24) | | |
| 5 | 70+ | 90+ | 65+ | 65+ | | | | | | 225+ | 205+ | 380+ | 560+ | 505+ | | | | | | | | | | | | | | |
| 6 | | | | | | | 360+ | 190+ | 235+ | 335+ | | | | | | | | | 325+ | 575+ | 560+ | 685+ | 505+ | 395+ | 470+ | 775+ | | |
| 7 | | | | | | | | | 325+ | 360+ | 395+ | 360+ | 280+ | | | | | | 270+ | 250+ | 250+ | 250+ | 235 | 205 | 260 | 325 | 274 | |
| 8 S | 235 | 215 | 215 | | | | | | | | | | | 160 | 145 | | | | | 125+ | 235 | 205 | 260 | 395 | 530 | 595 | 440 | 270 |
| 9 S | 225 | 125 | 90 | 80 | 90 | 100 | 115 | 110 | 110 | 125 | 135 | 180 | | 160 | 145 | | | | 325 | 235 | 245 | 335 | 360 | 160 | 70 | 202 | (24) | |
| 10 S | 110 | | | | | | | | | | | | | | | | | | 325 | 415 | 440 | 450 | 385 | 360 | 415 | 430 | 349 | |
| 11 | 0+ | 35+ | 25+ | 20+ | 0 | | | 45+ | 45+ | 70+ | 110+ | 90+ | | | | | | | 205+ | 145+ | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4.30

MAY 1966

| | Hour GMT | Factor 4.30 | | | | | | | | | | | | volts per metre | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean |
|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|------------------|----------|----------|----------|----------|----------|----------|-------|------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | volts per metre | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | |
| 1 | 0 ⁺ | 110 ⁺ | 120 ⁺ | 205 ⁺ | 190 ⁺ | 165 ⁺ | 155 ⁺ | 45 ⁺ | 225 ⁺ | 270 | 240 | 130 | 155 | 155 | 155 | 165 | 155 | 145 | 145 | 175 | 205 | 225 | 240 | 240 | 207 (24) | | |
| 2 S | 215 ⁺ | 140 ⁺ | 140 ⁺ | 205 ⁺ | 235 ⁺ | 215 ⁺ | 190 ⁺ | 225 ⁺ | 450 ⁺ | 400 | 165 | 205 | 165 | 140 | 145 | 130 | 130 | 145 | 180 | 180 | 235 | 225 | 270 | 250 | | | |
| 3 | 200 | 205 | 155 | 105 | 105 | 110 | 165 | 165 | 140 | 110 | 105 | 120 | 120 | 140 | 175 | 180 | 165 | 175 | 155 | 190 | 200 | 235 | 250 | | | | |
| 4 | 240 | 180 | 175 | 225 | 190 | 200 | 235 | 250 | 240 | 205 | | | | | | | | | 140 | 225 | 275 | 260 | 205 | 180 | | | |
| 5 | 155 | 140 | 140 | 165 | 140 | 190 | | | | | | | | | | | | | 205 ⁺ | 190 | 225 | 260 | 355 | 390 | 295 | | |
| 6 | 260 | 270 | 240 | 235 | 235 | 275 | 305 ⁺ | 260 ⁺ | 310 ⁺ | 205 | 190 | 175 | 140 ⁺ | 155 | 130 | 140 | 140 | 175 | 200 | 205 | 310 | 260 | 235 | 215 | | | |
| 7 | | | | | | | | | 110 ⁺ | | | | | | | | | | | | | | | | | | |
| 8 | 225 | 330 | 240 | 225 ⁺ | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 450 | 435 | 510 | 485 ⁺ | | | | | | | | | | | | | | | | | | | | | | | |
| 10 S | 140 | 145 | 120 | 140 | 175 | 215 | 400 | 475 | 520 | 450 | 320 | 270 | 205 | 205 | 200 | 190 | 190 | 180 | 190 | 225 | 240 | 355 | 415 | 295 | 261 | | |
| 11 | 240 ⁺ | 205 ⁺ | 240 ⁺ | 205 ⁺ | 205 ⁺ | 275 ⁺ | 310 | 240 | 175 | 70 | | | | | | | | | | | | | | | | | |
| 12 | 180 | 250 | 250 | 270 | 270 | 345 | 415 | 380 | 275 ⁺ | 225 ⁺ | 205 ⁺ | | | | | | | | | | | | | | | | |
| 13 | 235 | 310 | 310 | 330 ⁺ | | | | | | 640 ⁺ | 475 | 310 | 225 | 200 | 190 | 190 | 205 | 205 | 200 | 215 | 305 | 380 | 345 | 330 | 275 | | |
| 14 | 225 ⁺ | 175 ⁺ | 140 ⁺ | 175 ⁺ | 155 ⁺ | 145 ⁺ | 165 ⁺ | | | 165 ⁺ | 145 | 180 | 155 | 120 | 155 | 85 | 105 | 110 | 190 | 235 | 215 | 225 | 205 | 320 | 345 | | |
| 15 S | 310 | 275 | 225 | 215 | 240 | 285 | 270 | 225 | 270 | 295 | 240 | 190 | 145 | 155 | 155 | 145 | 165 | 175 | 165 | 95 | 110 | 140 | 240 | 190 | 205 (24) | | |
| 16 S | 215 | 175 | 205 | 215 | 215 | 275 | 365 | 485 | 485 | 440 | 425 | 415 | 370 | 415 | 400 | 440 | 400 | 400 | 285 | 175 | 165 | 215 | 165 | 140 | 312 (24) | | |
| 17 | 130 | 105 | 145 | 50 | 105 | 95 | 260 | 335 | 250 | 260 | 240 | 225 | 200 | 225 | 240 | 240 | 295 | 215 | 190 ⁺ | | | | | | | | |
| 18 S | | | | | | | | 155 ⁺ | 345 ⁺ | 355 ⁺ | 345 ⁺ | 270 ⁺ | | | | | | | | | | | | | | | |
| 19 S | 190 | 205 | 345 | 390 | 370 | 440 | 460 | 405 | 310 | 260 ⁺ | 240 ⁺ | | | | | | | | | | | | | | 277 (24) | | |
| 20 S | 435 | 365 | 330 | 330 | 320 | 450 | 605 | 545 | 415 | 345 | 295 | 260 | 205 | 240 | 240 | 240 | 240 | 225 | 225 | 260 | 310 | 330 | 335 | 328 (24) | | | |
| 21 | 330 | 320 | 120 | 200 | 215 | 140 | 205 | 240 | 250 | 205 | 140 | 240 | 175 | 240 | 240 | 240 | 205 ⁺ | 260 | 275 | 380 | 370 | 495 | 450 | 345 | | | |
| 22 | 120 ⁺ | 105 ⁺ | 155 ⁺ | 145 ⁺ | 120 ⁺ | 70 ⁺ | 140 ⁺ | 275 ⁺ | 165 ⁺ | 60 ⁺ | | | | | | | | | | | | | | | | | |
| 23 S | 225 | 200 | 205 | 225 | 305 | 365 ⁺ | 335 ⁺ | 275 ⁺ | 275 ⁺ | 270 ⁺ | 275 ⁺ | | 225 ⁺ | 225 ⁺ | 240 ⁺ | 235 ⁺ | 235 ⁺ | 240 | 320 | 305 | 355 | 425 | 400 | 275 (24) | | | |
| 24 | 320 | 310 | 355 | 140 | 80 | 130 | 190 | 345 | 355 | 345 ⁺ | | | | | | | | | | | | | | | | | |
| 25 | 215 | 200 | 190 | 180 | 110 | 120 | 155 ⁺ | 175 ⁺ | | | | | | | | | | | | | | | | | | | |
| 26 | 200 | 205 | 205 | 205 | 225 | 295 | 380 | 450 | 405 | 380 | 380 | 345 | 270 | 235 | 260 | 285 | 295 | 240 | 190 | 190 | 225 | 120 | 165 | | | | |
| 27 | 200 | 215 | 310 | 205 | 175 | 260 | 415 | 425 | 405 | 345 | 415 | 435 | 355 | 320 | 345 | 320 | 335 | 365 | 320 | 355 | 350 | 510 | 530 | | | | |
| 28 S | 510 | 435 | 380 | 380 | 405 | 440 | 405 | 370 | 365 | 355 | 335 | 320 | 295 | 275 | 240 | 235 | 240 | 270 | 215 | 310 | 305 | 260 | 370 | 380 | 337 (24) | | |
| 29 S | 370 | 345 | 295 | 345 | 285 | 330 | 390 | 450 | 435 | 310 | 270 | 260 | 235 | 235 | 225 | 215 | 190 | 180 | 190 | 205 | 275 | 400 | 415 | 335 | 299 (24) | | |
| 30 S | 295 | 285 | 270 | 260 | 285 | 320 | 370 | 400 | 380 | 345 | 310 | 270 | 240 | 215 | 215 | 205 | 200 | 130 | 235 | 180 | 260 | 215 | 145 | 260 (24) | | | |
| 31 | | | | | | | | | | | | | 365 | 320 | 310 | 330 | 275 | 285 | 250 | 200 | 145 | 165 | 120 | 130 | | | |
| Mean | 246 (28) | 236 (29) | 232 (29) | 227 (29) | 211 (26) | 243 (26) | 303 (25) | 325 (25) | 330 (27) | 305 (27) | 289 (23) | 267 (22) | 218 (22) | 223 (23) | 223 (23) | 218 (22) | 217 (25) | 217 (25) | 236 (25) | 253 (25) | 289 (28) | 299 (27) | 284 (27) | 255 | | | |
| Fair Weather Mean | 264 (23) | 254 (24) | 247 (24) | 219 (21) | 218 (21) | 260 (21) | 339 (18) | 369 (18) | 346 (18) | 303 (20) | 279 (18) | 258 (18) | 221 (19) | 224 (19) | 221 (19) | 219 (19) | 221 (19) | 212 (21) | 234 (21) | 247 (21) | 286 (26) | 301 (26) | 286 (26) | 260 | | | |

Mean for selected quiet days [276 (10)]

| | Hour GMT | Factor 4.47 | | | | | | | | | | | | volts per metre | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | JUNE 1966 |
|-----|----------|-------------|-----|-----|-----|------------------|------------------|-----|-----|------------------|-------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|-------|----------|----------|-------|-----------|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | volts per metre | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | |
| 1 | 130 | 150 | 125 | 95 | 150 | 220 | 325 | 280 | 280 | 265 | 290 | 350 | 350 | 305 | 290 | 295 | 200 | 210 | 305 | 315 | 245 | 165 | 210 | 200 | | | |
| 2 S | 185 | 165 | 165 | 130 | 130 | 245 | 255 | 350 | 360 | 395 | 430 | 360 | 295 | 315 | 290 | 265 | 200 | 210 | 200 | 165 | 140 | 165 | 130 | 105 | 235 (24) | | |
| 3 S | 140 | 115 | 80 | 125 | 125 | 140 | 195 | 335 | 325 | 265 | 225 | 210 | 200 | 195 | 185 | 185 | 165 | 150 | 140 | 155 | 155 | 155 | 155 | 180 (24) | | | |
| 4 S | 85 | 95 | 125 | 140 | 140 | 165 | 235 | 305 | 315 | 295 | 210 | 165 | 155 | 175 | 175 | 175 | 165 | 150 | 155 | 235 | 255 | 220 | 265 | 197 (24) | | | |
| 5 S | 200 | 85 | 130 | 175 | 150 | 140 | 150 | 165 | 185 | 210 | 175 | 150 | 150 ⁺ | 125 ⁺ | 130 ⁺ | 150 | 155 | 155 | 155 | 235 | 225 | 220 | 185 | 157 (24) | | | |
| 6 S | 210 | 220 | 200 | 200 | 185 | 195 | 255 | 335 | 315 | 305 | 255 | 225 | 225 | 245 | 220 | 220 | 220 | 220 | 220 | 280 | 335 | 420 | 360 | 265 (24) | | | |
| 7 S | 140 | 95 | 140 | 115 | 85 | 140 | 225 | 315 | 315 | 270 ⁺ | | | | 255 ⁺ | 245 ⁺ | 255 ⁺ | 265 ⁺ | 235 ⁺ | | | | | | | 256 (24) | | |
| 8 | 130 | 95 | 125 | 125 | 140 | 165 | 295 | 435 | 465 | 420 | 375 | 280 | 220 | 235 | 220 | 195 | 155 | 155 | 155 | 350 | 220 | 140 | 195 | 155 | 199 (24) | | |
| 9 | 95 | 45 | 95 | 175 | 325 | 385 | 500 | 560 | 535 | 500 | 475 | 375 | 360 ⁺ | 365 ⁺ | 325 ⁺ | 385 ⁺ | 465 ⁺ | 505 ⁺ | 445 ⁺ | 405 ⁺ | 175 ⁺ | | | | | | |
| 10 | 210 | 270 | 325 | 375 | 430 | 525 ⁺ | 690 ⁺ | | | | | 500 | 505 | 445 | 315 | 385 | 315 | 385 | 350 | 360 | | | | | | | |

37 KEY OBSERVATORY

Factor 4·40

JULY 1966

POTENTIAL GRADIENT (close to the ground, over an open level surface). Mean values for hours without hydrometeors and for fair weather hours

37 NEW OBSERVATORIES

Factor 4·67

AUGUST 1966

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for selected quiet days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4.77

SEPTEMBER 1966

| | Hour GMT | volts per metre | | | | | | | | | | | | | | | | | | | | | | | | Mean | | |
|-------------------|----------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | | |
| 1 S | 175 | 155 | 145 | | | 245+ | 245+ | 225+ | 310+ | | | | 200+ | 255+ | 265+ | 275+ | 280+ | 355+ | 380 | 180 | 265 | 290 | 235 | | 183 (24) | | | |
| 2 S | 180 | 155 | 125 | | | 120 | 180 | 265 | 310+ | | | | 155 | 145 | 135 | 155 | 145 | 125 | 80+ | 235+ | 410 | 365 | 330 | 255 | | 244 (24) | | |
| 3 S | 190 | 175 | 145 | 145 | 145 | 190 | 220 | 235 | 265 | 255 | 210 | 200 | | | | | | | | | | | | | | 252 (24) | | |
| 4 S | 100 | 80 | 65 | 75 | 100 | | | | | | | | 100+ | 190 | 190 | 245 | 265 | 320 | 330 | 365 | 330 | | | | | | | |
| 5 S | 245 | 210 | 180 | 175 | 175 | 210 | 235 | 330 | 355 | 290 | 300 | 280 | 235 | 220 | 235 | 135+ | 55+ | -40+ | 75+ | 155 | 220 | 290 | 275 | 180+ | | 252 (24) | | |
| 6 S | 100+ | 120+ | 65+ | 65+ | 80 | 100 | 190 | 235 | 290+ | 275+ | 265+ | 265+ | 225 | 220 | 225+ | 145+ | 45+ | -20+ | 125+ | 280 | 355 | 345 | 300 | 310 | | 291 (24) | | |
| 7 S | 245 | 275 | 245 | 225+ | 190+ | 145+ | 310+ | 430+ | 365+ | 445+ | 375 | 380 | 330 | 255 | 265 | 220+ | 265+ | 265+ | 165+ | 235+ | 135+ | 180+ | 55+ | | | | | |
| 8 | 65 | 110 | 165 | 175 | 210 | 235 | 290 | 445+ | 300+ | 365+ | | | 380+ | 565+ | | | | | | | | | | | | | | |
| 9 | 175 | 190 | 180 | 245 | 155 | 290 | 330 | 365 | 455 | 365 | 245 | 280 | 255 | 245 | 235 | 210 | 125 | 155 | 200+ | 80+ | 80+ | 100+ | | | | | | |
| 10 | 100 | 90 | 55 | 125 | 145 | 210 | 310 | 410 | 280 | 225 | 210 | 165 | 135 | 100 | 145 | 90 | 90+ | 35+ | 165+ | 235 | 265 | 220 | 180 | | | | | |
| 11 | 155 | 165 | 180 | 145 | 135 | 210 | 265 | 235+ | 180+ | 225+ | 235+ | | | | | 180 | 180 | 200 | 200 | 235 | 190 | 235 | 265 | 175 | 190 | | | |
| 12 | 165+ | 200+ | | | | 90+ | 190+ | 290+ | | | | | 180+ | 200+ | 275+ | 180+ | | | | | 190+ | 275 | 400 | 410 | 345 | 330 | | |
| 13 | 275 | 220 | 190 | 180 | 190 | 220 | | | | | | | 235+ | 200+ | 165+ | -10+ | 20+ | 10+ | 245 | 290 | 145 | 145 | 210 | 180 | | | | |
| 14 | 200 | 235 | 190 | 145 | 200 | 280 | 345 | 365 | 345 | 290 | 235 | 220 | 235 | 90+ | 20+ | 55+ | 20+ | -20+ | 75+ | 35+ | 100+ | 35+ | 20+ | | | | | |
| 15 S | | | | | | 180 | 225 | 320 | 445 | 475 | 390 | 355 | 345 | 280+ | 375+ | 355+ | 235+ | | | | 330+ | 235+ | 190 | 290 | 335 | 400 | | |
| 16 S | 390 | 380 | 330 | 320 | 330 | 320 | 400 | 490 | 530 | 465 | 380 | 310 | 275 | 275 | 320 | 310 | 310 | 280 | 245 | 225 | 190 | 255 | 290 | 245 | | 338 (24) | | |
| 17 S | 210 | 190 | 220 | 225 | 225 | | | 380 | 380 | 400 | 410 | 355 | 335 | 345 | 310 | 280 | 255 | 200 | 135 | 135 | 155 | 125+ | 25+ | 145 | | | 207 (24) | |
| 18 S | 180 | 175 | 180 | 180 | 120+ | 55+ | 110+ | 235 | 235 | 225 | 255 | 235 | 200 | 235 | 255 | 220 | 230 | 330 | 365 | 380 | 355 | 375 | 390 | 435 | 475 | | 457 (24) | |
| 19 S | 435 | 375 | 290 | 365 | 330 | 365 | 390 | 600 | 745 | 630 | 530 | 475 | 465 | 475 | 530 | 580 | 545 | 445 | 335 | 235 | 200 | 180+ | 25+ | 20+ | | | | |
| 20 | - | - | - | - | - | - | - | | | | | 430+ | 430+ | 455+ | 510+ | 475+ | 535+ | 390+ | 220+ | 265+ | 180+ | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 S | 90 | 100 | 165 | 135 | 175 | 180 | 275 | 465 | 420 | 435 | 410 | 435 | 535 | 510 | 445 | 445 | 280 | 265 | 280 | 255 | 245 | 335 | 435 | 420 | | 333 (24) | | |
| 23 S | 235 | 220 | 165 | 145 | 220 | 345 | 520 | 665 | 690 | 580 | 635 | 630 | 510 | 355 | 335 | 320 | 290 | 220 | 165 | 190+ | 220+ | 275+ | 135+ | 200+ | | | | |
| 24 | 180+ | 255+ | 125+ | 145+ | 125+ | | | | | | | | 530+ | 345 | 310 | 310 | 335 | 335 | 280 | 265 | 210 | 210+ | 155+ | 100+ | 125+ | 120+ | 110+ | |
| 25 | 120+ | | | | | | | | | | | | | 110+ | 145+ | 175+ | 120+ | 110+ | 80+ | | | | | | | | | |
| 26 S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 S | 225 | 225 | 190 | 210 | 200 | 220 | 320 | 475 | 535 | 465+ | 375+ | 410+ | 390+ | 375+ | 410+ | 420+ | 335+ | 355+ | 390+ | 410 | 430 | 310 | 210 | 335 | | 468 (24) | | |
| 29 S | 310 | 225 | 165 | 180 | 310 | 335 | 500 | 580 | 710 | 690 | 690 | 620 | 675 | 635 | 645 | 610 | 580 | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mean | 198 (24) | 197 (23) | 171 (22) | 180 (20) | 180 (23) | 226 (21) | 307 (20) | 390 (21) | 425 (22) | 413 (24) | 357 (24) | 342 (24) | 328 (25) | 321 (26) | 308 (25) | 280 (27) | 256 (25) | 215 (25) | 223 (26) | 234 (27) | 232 (28) | 251 (27) | 233 (26) | 226 (25) | 271 | | | |
| Fair Weather Mean | 209 (20) | 197 (20) | 179 (17) | 186 (19) | 191 (17) | 242 (16) | 323 (16) | 418 (15) | 476 (15) | 433 (15) | 389 (17) | 359 (17) | 345 (18) | 339 (17) | 331 (17) | 339 (15) | 305 (16) | 263 (14) | 250 (12) | 255 (16) | 262 (20) | 301 (18) | 300 (18) | 274 (18) | 299 | | | |

Mean for selected quiet days [313 (10)]

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4.51

OCTOBER 1966

| | Hour GMT | volts per metre | | | | | | | | | | | | | | | | | | | | | | | | Mean | | |
|------|----------|-----------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|----------|--|
| | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 430 | 310 | 215 | 170 | 170 | 180 | 190 | 215 | 250+ | 230+ | | | 145+ | 200 | 180 | 230 | 250 | 290 | 240+ | 225+ | 370+ | 415+ | 225+ | 310+ | | | | |
| 3 | 475+ | 420+ | 360+ | 415+ | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 S | 175 | 145 | 80 | 95 | 110 | | | | | | | | | | | | | | | | | | | | | | 282 (24) | |
| 6 | 225 | 205 | 240 | 240 | 300 | 320 | 335 | 365 | 430 | 430 | 395 | 460 | 350 | 320 | 320 | 365 | 380 | 380 | 350 | 475 | 415 | 240 | 175 | | | | | |
| 7 S | 365+ | 350+ | 270+ | 365+ | 270+ | 175+ | 240+ | 335+ | 335+ | 350+ | 350+ | 380+ | 365 | 320 | 320 | 320 | 320 | 320 | 320 | 510 | 620 | 510 | 460 | 430 | 395 | 270 | 350 | |
| 8 | | | | | | | | | | | | | 445+ | 350+ | 350+ | 350+ | 350+ | 350+ | 350+ | 350+ | 475 | 415 | 240 | 175 | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 S | - | - | - | - | - | - | - | - | - | - | - | 240+ | | | | | | | | | | | | | | | | |
| 11 S | 25 | 45 | 70 | 120 | 110 | 155 | 225 | 335 | 415 | 405 | 345 | 320 | 275 | 265 | 335 | 345 | 345 | 355 | 215+ | 325+ | 360+ | 225+ | | | | | 244 (24) | |
| 12 S | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 S | 110 | 120 | 155 | 170 | 190 | 240 | 300 | 310 | | | | | 265 | 310 | 345 | | | | | | | | | | | | 240 (24) | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 95+ | 110 | 155 | 170 | 155 | 145 | 225 | 250 | 320+ | 320+ | 325+ | 375+ | 335+ | 345 | 355 | 345 | 405 | 345+ | 250+ | | | | | | | | | |
| 16 S | 430+ | 445+ | 475+ | | | | | | | | | | | | | | | | | | | | | | | | | |

37 KEW OBSERVATORY

Factor 4·42

NOVEMBER 1966

Mean for selected quiet days [382 (9)]

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Mean values for hours without hydrometeors and for fair weather hours

37 KEW OBSERVATORY

Factor 4·47

DECEMBER 1966

| | Hour | GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean | | |
|-------------------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|-----|-----|
| 1 | | 280 | 310 | 275 | 255 | 230 | 195 | 265 | 275 ⁺ | 290 ⁺ | | | | | | | | | | | | | | | | | | | |
| 2 | | 190 ⁺ | | | | | | | - | - | 335 ⁺ | 375 ⁺ | 375 ⁺ | 275 ⁺ | 215 ⁺ | | 325 ⁺ | 420 ⁺ | 385 ⁺ | 420 ⁺ | 420 ⁺ | 340 ⁺ | 265 ⁺ | 255 ⁺ | | | | | |
| 3 | | 205 | 190 | 195 | 190 | 190 | 230 | 255 | 360 | 425 | 435 | 515 | 575 | 480 | 555 | 605 | 410 | 310 | 310 | 290 | 275 | 290 | 85 ⁺ | 125 ⁺ | 135 ⁺ | | | | |
| 4 S | | 135 | 130 | 95 | 70 | 95 | 160 | 240 | 300 | 335 | 455 | 470 | 480 | 540 | 545 | 435 | 530 | 540 | 575 | 515 | 350 | 425 | 425 | 400 | 335 | 449 (24) | | | |
| 5 S | | 425 | 455 | 410 | 470 | 495 | 455 | 565 | 650 | 635 | 770 | 750 | 615 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 S | | 420 | 385 | 445 | 445 | 435 | 505 | 495 | 575 | 640 | 635 | 745 | 805 | 665 | 575 | 580 | 590 | 600 | 565 | 350 ⁺ | 770 ⁺ | 700 | 650 | 530 | 520 | 515 ⁺ | 599 (24) | | |
| 8 S | | 565 ⁺ | | | | | | | | | 170 ⁺ | 85 ⁺ | 205 ⁺ | | | | 190 ⁺ | 400 ⁺ | 495 | 495 | 590 | 310 ⁺ | 455 ⁺ | 505 ⁺ | 545 ⁺ | | | | |
| 9 S | | 280 | 255 | 275 | 275 | 275 | 325 | 385 | 470 | 460 | 505 | 505 | 445 | 395 | 410 | 410 | 435 | 395 | 325 | 220 ⁺ | | | | | 290 ⁺ | 390 (24) | | | |
| 10 | | 130 ⁺ | 95 ⁺ | 130 ⁺ | | | | | | | | | | | | | | | 325 | 395 | 350 | 530 | 720 | 495 | 520 | 580 | 460 | 435 | |
| 11 | | 350 | 340 | 160 | 215 | 205 | 155 | 180 | 195 | 325 | 530 | 600 | 600 | 575 | 485 | 540 | 395 | 495 | | | | | | | | | | | |
| 12 | | 250 | 250 | 315 | 375 | 315 | 310 | 280 ⁺ | | | | | | 425 | 485 | 445 | 485 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | 290 | 470 | 530 | 565 | 530 | 580 | 580 | 605 | 635 | 720 | 750 | 820 | 615 | 735 | 750 | 425 | 340 | | |
| 14 | | 555 | 340 | 445 | 460 | 460 | 485 | 545 | 530 | 605 | 840 | 795 | 865 | 960 | 735 | 685 | 750 | 635 | 600 | 565 | 615 | 540 | 420 | 580 | 275 ⁺ | | | | |
| 15 | | 25 ⁺ | -35 ⁺ | 190 ⁺ | 340 ⁺ | 310 ⁺ | | | | | | | | 215 ⁺ | 375 ⁺ | | | | 515 ⁺ | 455 | 495 | 350 | 340 | | | | | | |
| 16 | | 230 | 265 | 265 | 160 | 160 | 160 | 160 ⁺ | | | | | | | | | | 600 ⁺ | 460 ⁺ | 530 ⁺ | 650 ⁺ | 650 ⁺ | 445 ⁺ | 495 ⁺ | | | | | |
| 17 S | | 625 ⁺ | 480 ⁺ | 515 ⁺ | 530 ⁺ | 515 ⁺ | 530 ⁺ | 555 ⁺ | 590 ⁺ | 520 ⁺ | 425 ⁺ | 350 ⁺ | 410 ⁺ | 350 | 325 | 350 | 445 | 420 | 340 | 300 | 250 | 205 | 190 | 170 | 135 ⁺ | 358 (24) | | | |
| 18 S | | 95 ⁺ | 85 ⁺ | 110 ⁺ | 95 ⁺ | 110 ⁺ | 105 ⁺ | 70 ⁺ | 85 ⁺ | 75 ⁺ | 85 ⁺ | 85 ⁺ | 75 ⁺ | 70 ⁺ | | 160 ⁺ | 310 | 425 | 470 | 435 | 425 | 520 | 515 | 540 | 420 | 345 (24) | | | |
| 19 S | | 290 | 275 | 250 | 190 | 120 | 105 | 160 | 325 | 425 | 400 | 400 | 375 | 315 | 280 | 300 | 315 | 275 | 255 | 250 | 190 | 95 ⁺ | 120 ⁺ | 155 ⁺ | 70 ⁺ | | | | |
| 20 S | | 35 ⁺ | -10 ⁺ | 35 ⁺ | 60 ⁺ | 85 ⁺ | | | | | 310 | 495 | 455 | 530 | 565 | 555 | 455 | 515 | 615 | 445 | 470 | 480 | 495 | 315 | 375 | 315 | | | |
| 21 S | | 310 | 190 | 195 | 315 | 360 | 435 | 335 | 580 | 635 | 590 | 650 | | 395 | 485 | 515 | 495 | 420 | 340 | 385 | | | | | | 60 ⁺ | 439 (24) | | |
| 22 | | 10 ⁺ | 105 | 75 | 135 | 240 | 280 | | | 445 | 485 | 515 | 375 | | 255 | 240 | | | | | | | | | | | 280 | 275 | |
| 23 | | 255 | 230 | 85 | 110 | 155 | 195 | 160 | 240 | 350 | 340 | 360 | 325 | | | | | | | | | | | | | 505 | 455 | | |
| 24 | | 455 | 290 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 S | | 420 | 310 | 215 | 195 | 265 | 325 | 325 | 435 | 720 | 870 | 770 | 650 | 580 | 435 | 435 | 530 ⁺ | 710 ⁺ | 750 ⁺ | 795 ⁺ | 735 ⁺ | 685 ⁺ | 545 ⁺ | 665 ⁺ | 650 ⁺ | 542 (24) | | | |
| 26 S | | 600 ⁺ | 615 ⁺ | 695 ⁺ | 615 ⁺ | 540 ⁺ | 665 ⁺ | 650 ⁺ | 700 ⁺ | 555 ⁺ | 435 ⁺ | 445 ⁺ | 360 ⁺ | 335 ⁺ | 310 | 335 | 280 | 420 | 470 | 460 | 420 | 370 | 325 | 310 | 310 | 467 (24) | | | |
| 27 | | 300 | 255 | 265 | 265 | 180 ⁺ | 70 ⁺ | 110 ⁺ | 110 ⁺ | | | | | | | | | | 400 | 445 | 470 | 420 | 635 | 625 | 635 | | | | |
| 28 | | 635 ⁺ | 580 ⁺ | 505 ⁺ | 580 ⁺ | 580 ⁺ | 640 ⁺ | | | 665 ⁺ | 750 ⁺ | 625 ⁺ | | | | | | | 240 ⁺ | 360 | 290 | 340 | 215 | 290 | | | | | |
| 29 | | 275 | 155 | 60 | | | | | 265 ⁺ | 275 ⁺ | | | | | | | | | 350 ⁺ | 360 | 290 | 255 ⁺ | 230 ⁺ | 135 ⁺ | 105 ⁺ | | | | |
| 30 S | | 145 | 190 | 195 | 215 | 275 | 340 | 460 | 665 | 905 | 1010 | 905 | 925 | 880 | 725 | 710 | 695 | 640 | 530 | 530 | 580 | 640 | 660 | 615 | 720 | 660 | 545 | 470 | |
| 31 | | | | | | | | | 205 ⁺ | 265 ⁺ | | | | | | | | | 445 ⁺ | 400 ⁺ | 590 | 695 | 640 | 660 | 615 | 720 | 660 | 545 | 470 |
| Mean | | 303 (28) | 259 (26) | 256 (25) | 285 (23) | 293 (22) | 325 (20) | 323 (20) | 403 (19) | 489 (20) | 513 (22) | 510 (22) | 501 (20) | 456 (21) | 467 (20) | 458 (21) | 489 (22) | 526 (21) | 487 (24) | 485 (25) | 441 (24) | 426 (25) | 410 (24) | 366 (25) | 321 (26) | 408 | | | |
| Fair Weather Mean | | 310 (18) | 259 (19) | 234 (18) | 255 (17) | 274 (15) | 300 (15) | 336 (13) | 432 (13) | 512 (15) | 593 (15) | 600 (15) | 578 (14) | 531 (15) | 483 (16) | 483 (16) | 489 (18) | 497 (18) | 477 (17) | 465 (16) | 435 (17) | 467 (18) | 456 (16) | 404 (17) | 374 (15) | 427 | | | |

Mean for selected quiet days [457 (9)]

The potential gradient is reckoned as positive when the potential increases upwards. The small + denotes a non-fair weather hour (see Introduction). No entry is made for hours with hydrometeors and dashes are inserted for hours of defective record. The number of hours or days used in computing each mean is shown in round brackets. The mean for selected quiet days (see Introduction) and the figure in round brackets, which is the number of days used in computing this mean, are entered in square brackets.

POTENTIAL GRADIENT (close to the ground, over an open level surface).
Monthly, seasonal and annual means for hours without hydrometeors and for fair weather hours

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1966

| | Hour GMT | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | 12-13 | 13-14 | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 | 20-21 | 21-22 | 22-23 | 23-24 | Mean |
|-------------------------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| volts per metre | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No hydrometeors | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | 314 | 266 | 241 | 183 | 195 | 205 | 257 | 308 | 542 | 586 | 585 | 582 | 546 | 484 | 494 | 523 | 501 | 527 | 541 | 544 | 584 | 491 | 440 | 392 | 430 | |
| Feb. | 234 | 195 | 132 | 148 | 186 | 184 | 250 | 325 | 389 | 458 | 478 | 479 | 384 | 358 | 359 | 383 | 413 | 406 | 405 | 325 | 330 | 327 | 284 | 251 | 320 | |
| Mar. | 204 | 188 | 196 | 201 | 204 | 209 | 277 | 360 | 384 | 386 | 358 | 348 | 334 | 312 | 303 | 293 | 302 | 311 | 346 | 359 | 333 | 284 | 256 | 216 | 290 | |
| Apr. | 198 | 177 | 173 | 202 | 179 | 199 | 316 | 377 | 415 | 340 | 290 | 303 | 295 | 264 | 295 | 260 | 269 | 243 | 268 | 262 | 257 | 233 | 240 | 240 | 262 | |
| May | 246 | 236 | 232 | 227 | 211 | 243 | 303 | 325 | 330 | 305 | 289 | 267 | 218 | 223 | 223 | 223 | 218 | 217 | 217 | 236 | 253 | 289 | 299 | 284 | 255 | |
| June | 182 | 171 | 167 | 192 | 207 | 216 | 275 | 330 | 298 | 276 | 288 | 253 | 236 | 228 | 218 | 226 | 219 | 212 | 226 | 225 | 236 | 234 | 231 | 208 | 231 | |
| July | 174 | 153 | 128 | 128 | 143 | 185 | 266 | 307 | 324 | 292 | 265 | 246 | 226 | 206 | 198 | 222 | 189 | 192 | 188 | 196 | -201 | 206 | 206 | 195 | 210 | |
| Aug. | 181 | 157 | 152 | 150 | 164 | 187 | 263 | 345 | 355 | 346 | 304 | 308 | 264 | 253 | 237 | 232 | 232 | 212 | 195 | 183 | 189 | 194 | 218 | 198 | 230 | |
| Sept. | 198 | 197 | 171 | 180 | 180 | 226 | 307 | 390 | 425 | 413 | 357 | 342 | 328 | 321 | 308 | 280 | 256 | 215 | 223 | 234 | 232 | 251 | 233 | 226 | 271 | |
| Oct. | 258 | 246 | 239 | 216 | 239 | 264 | 323 | 372 | 427 | 445 | 427 | 410 | 371 | 349 | 339 | 361 | 382 | 399 | 401 | 399 | 389 | 364 | 339 | 295 | 344 | |
| Nov. | 254 | 240 | 242 | 238 | 259 | 259 | 280 | 362 | 423 | 457 | 421 | 432 | 456 | 387 | 424 | 439 | 432 | 440 | 421 | 400 | 384 | 319 | 309 | 301 | 357 | |
| Dec. | 303 | 259 | 256 | 285 | 293 | 325 | 323 | 403 | 489 | 513 | 510 | 501 | 456 | 467 | 458 | 489 | 526 | 487 | 485 | 441 | 426 | 410 | 366 | 321 | 408 | |
| Year | 229 | 207 | 194 | 196 | 205 | 225 | 287 | 350 | 400 | 401 | 381 | 373 | 343 | 321 | 321 | 328 | 328 | 322 | 326 | 317 | 318 | 300 | 285 | 261 | 301 | |
| Winter Equinox | 276 | 240 | 218 | 213 | 233 | 243 | 277 | 349 | 461 | 503 | 499 | 499 | 461 | 424 | 434 | 459 | 468 | 465 | 463 | 427 | 431 | 387 | 350 | 316 | 379 | |
| Summer | 215 | 202 | 195 | 200 | 201 | 225 | 306 | 375 | 413 | 396 | 358 | 351 | 332 | 311 | 311 | 299 | 302 | 292 | 309 | 313 | 303 | 283 | 267 | 244 | 292 | |
| Fair weather | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan. | 331 | 302 | 264 | 248 | 282 | 265 | 285 | 387 | 541 | 545 | 569 | 531 | 550 | 526 | 538 | 544 | 563 | 583 | 603 | 608 | 631 | 540 | 467 | 435 | 464 | |
| Feb. | 288 | 267 | 214 | 213 | 221 | 259 | 321 | 384 | 441 | 488 | 471 | 445 | 354 | 389 | 383 | 387 | 446 | 450 | 439 | 392 | 377 | 367 | 362 | 315 | 362 | |
| Mar. | 194 | 190 | 203 | 203 | 205 | 219 | 293 | 375 | 395 | 398 | 374 | 356 | 343 | 327 | 311 | 299 | 307 | 309 | 344 | 350 | 296 | 264 | 248 | 213 | 292 | |
| Apr. | 223 | 205 | 215 | 230 | 216 | 232 | 389 | 407 | 463 | 363 | 314 | 297 | 277 | 277 | 291 | 270 | 270 | 267 | 263 | 272 | 275 | 275 | 281 | 283 | 286 | |
| May | 264 | 254 | 247 | 219 | 218 | 260 | 339 | 369 | 346 | 303 | 279 | 258 | 221 | 224 | 221 | 223 | 219 | 221 | 212 | 234 | 247 | 286 | 301 | 286 | 260 | |
| June | 175 | 167 | 166 | 176 | 206 | 226 | 263 | 315 | 303 | 302 | 271 | 248 | 237 | 237 | 221 | 206 | 197 | 193 | 219 | 218 | 240 | 225 | 230 | 214 | 227 | |
| July | 195 | 178 | 153 | 150 | 155 | 201 | 291 | 350 | 358 | 313 | 274 | 259 | 237 | 223 | 208 | 215 | 205 | 186 | 190 | 195 | 206 | 227 | 232 | 225 | 226 | |
| Aug. | 189 | 161 | 158 | 160 | 177 | 200 | 280 | 355 | 374 | 378 | 343 | 343 | 289 | 269 | 243 | 254 | 244 | 223 | 201 | 183 | 192 | 189 | 223 | 213 | 243 | |
| Sept. | 209 | 197 | 179 | 186 | 191 | 242 | 323 | 418 | 476 | 433 | 389 | 359 | 345 | 339 | 331 | 339 | 305 | 263 | 250 | 255 | 262 | 301 | 300 | 274 | 299 | |
| Oct. | 238 | 217 | 218 | 215 | 234 | 279 | 335 | 393 | 490 | 508 | 475 | 450 | 415 | 363 | 347 | 356 | 374 | 410 | 448 | 455 | 390 | 372 | 338 | 295 | 359 | |
| Nov. | 285 | 255 | 253 | 247 | 263 | 283 | 334 | 426 | 522 | 558 | 557 | 543 | 530 | 467 | 445 | 464 | 469 | 506 | 496 | 487 | 413 | 360 | 344 | 385 | 412 | |
| Dec. | 310 | 259 | 234 | 255 | 274 | 300 | 336 | 432 | 512 | 593 | 600 | 578 | 531 | 483 | 483 | 489 | 497 | 477 | 465 | 435 | 467 | 456 | 404 | 374 | 427 | |
| Year | 241 | 221 | 209 | 209 | 220 | 247 | 316 | 384 | 435 | 432 | 410 | 389 | 361 | 344 | 335 | 337 | 341 | 341 | 344 | 340 | 333 | 322 | 311 | 293 | 321 | |
| Winter Equinox | 303 | 271 | 241 | 241 | 260 | 277 | 319 | 407 | 504 | 546 | 549 | 524 | 491 | 469 | 462 | 471 | 494 | 504 | 501 | 481 | 472 | 431 | 394 | 377 | 416 | |
| Summer | 206 | 190 | 181 | 176 | 189 | 222 | 293 | 347 | 345 | 324 | 292 | 277 | 246 | 238 | 223 | 225 | 216 | 206 | 205 | 207 | 221 | 232 | 247 | 235 | 239 | |
| Annual mean for selected quiet days | | | | | | | | | | | | | | | | | | | | | | | | | | |
| [326] | | | | | | | | | | | | | | | | | | | | | | | | | | |

"Winter" comprises the four months January, February, November, December; "Equinox" the months March, April, September, October; and "Summer" May to August.

POTENTIAL GRADIENT AIR-EARTH CURRENT AND CONDUCTIVITY - WILSON METHOD

99

Mean value for periods of twenty minutes about 1430 GMT

F = Potential gradient, unit 1 v.cm.⁻¹. i = Air-earth current, unit 10⁻¹⁰ amp. cm.⁻²

λ^+ = Conductivity due to positive ions, unit 10⁻¹⁰ ohm.⁻¹ cm.⁻¹

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1966

| | JANUARY | | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | | JUNE | | |
|------------------|---------|-----|-------------|----------|-----|-------------|-------|-----|-------------|-------|-----|-------------|------|-----|-------------|------|-----|-------------|
| | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ |
| 1 | ... | ... | ... | 3.11 | 159 | 51 | ... | ... | ... | 2.70 | 159 | 59 | ... | .. | ... | 2.84 | 208 | 73 |
| 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1.43 | 133 | 93 | 2.99 | 171 | 57 |
| 3 | ... | ... | ... | 3.31 | 158 | 48 | 4.10 | 216 | 53 | ... | ... | ... | ... | ... | ... | 1.92 | 155 | 81 |
| 4 | ... | ... | ... | ... | ... | ... | 4.18 | 188 | 45 | 4.11 | 120 | 29 | ... | ... | ... | ... | ... | ... |
| 5 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 6 | 7.66 | 239 | 31 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2.10 | 169 | 80 |
| 7 | 7.08 | 245 | 35 | ... | ... | ... | 2.90 | 186 | 64 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 8 | ... | ... | ... | 3.52 | 165 | 47 | 3.36 | 155 | 46 | ... | ... | ... | ... | ... | ... | 2.15 | 196 | 91 |
| 9 | ... | ... | ... | ... | ... | ... | 3.10 | 157 | 51 | ... | ... | ... | 2.74 | 171 | 62 | 3.06 | 200 | 65 |
| 10 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2.16 | 130 | 60 | 4.40 | 188 | 43 |
| 11 | 4.27 | 195 | 46 | 1.79 | 83 | 46 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 12 | 5.11 | 157 | 31 | ... | ... | ... | ... | ... | ... | 5.37 | 198 | 37 | 2.39 | 137 | 57 | ... | ... | ... |
| 13 | 6.31 | 252 | 40 | ... | ... | ... | ... | ... | ... | 4.75 | 204 | 43 | 1.74 | 128 | 74 | 1.47 | 139 | 95 |
| 14 | 6.53 | 205 | 31 | 4.70 | 175 | 37 | 3.74 | 152 | 41 | ... | ... | ... | ... | ... | ... | 1.85 | 125 | 68 |
| 15 | ... | ... | ... | ... | ... | ... | 4.05 | 147 | 36 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 16 | ... | ... | ... | 8.04 | 253 | 31 | 3.57 | 145 | 41 | ... | ... | ... | 4.15 | 111 | 27 | ... | ... | ... |
| 17 | ... | ... | ... | 6.73 | 206 | 31 | 3.28 | 122 | 37 | ... | ... | ... | 2.13 | 132 | 62 | ... | ... | ... |
| 18 | ... | ... | ... | ... | ... | ... | 3.10 | 119 | 38 | ... | ... | ... | 2.43 | 216 | 89 | ... | ... | ... |
| 19 | 9.87 | 225 | 23 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 20 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2.36 | 129 | 55 | ... | ... | ... | ... |
| 21 | ... | ... | ... | 2.33 | 120 | 52 | 2.90 | 124 | 43 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 22 | ... | ... | ... | ... | ... | ... | 2.72 | 115 | 42 | ... | ... | ... | ... | ... | ... | 1.91 | 202 | 106 |
| 23 | ... | ... | ... | ... | ... | ... | 2.01 | 135 | 67 | ... | ... | ... | 2.46 | 144 | 59 | ... | ... | ... |
| 24 | 5.96 | 195 | 33 | ... | ... | ... | ... | ... | ... | 2.69 | 135 | 50 | ... | ... | ... | ... | ... | ... |
| 25 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 26 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2.81 | 188 | 67 | ... | ... | ... | ... | ... | ... |
| 27 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 28 | 4.95 | 212 | 43 | 4.50 | 145 | 32 | 3.80 | 154 | 41 | ... | ... | ... | ... | ... | ... | 2.97 | 160 | 54 |
| 29 | ... | ... | ... | ... | ... | ... | 2.84 | 163 | 57 | 1.68 | 104 | 62 | ... | ... | ... | 2.36 | 174 | 74 |
| 30 | ... | ... | ... | ... | ... | ... | 2.51 | 136 | 54 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 31 | ... | ... | ... | ... | ... | ... | 2.66 | 147 | 55 | ... | ... | ... | 3.26 | 244 | 75 | ... | ... | ... |
| Mean | 6.42 | 214 | 35 | 4.23 | 163 | 42 | 3.22 | 151 | 48 | 3.44 | 158 | 50 | 2.48 | 152 | 65 | 2.50 | 174 | 74 |
| No. of days used | 9 | 9 | 9 | 9 | 9 | 9 | 17 | 17 | 17 | 7 | 7 | 7 | 11 | 11 | 11 | 12 | 12 | 12 |

| | JULY | | | AUGUST | | | SEPTEMBER | | | OCTOBER | | | NOVEMBER | | | DECEMBER | | |
|------------------|------|-----|-------------|--------|-----|-------------|-----------|-----|-------------|---------|-----|-------------|----------|-----|-------------|----------|-----|-------------|
| | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ | F | i | λ^+ |
| 1 | 0.57 | 38 | 67 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3.25 | 91 | 28 | ... | ... | ... |
| 2 | ... | ... | ... | 1.64 | 126 | 77 | 2.55 | 174 | 68 | ... | ... | ... | 5.00 | 199 | 40 | ... | ... | ... |
| 3 | ... | ... | ... | 1.73 | 130 | 75 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 4 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4.28 | 265 | 62 | 4.14 | 121 | 29 | ... | ... | ... |
| 5 | ... | ... | ... | 2.02 | 132 | 65 | 2.14 | 129 | 60 | 4.14 | 146 | 35 | ... | ... | ... | ... | ... | ... |
| 6 | ... | ... | ... | ... | ... | ... | 2.40 | 113 | 47 | ... | ... | ... | ... | ... | ... | 6.96 | 168 | 24 |
| 7 | ... | ... | ... | ... | ... | ... | 2.60 | 175 | 67 | 2.91 | 109 | 37 | 3.27 | 181 | 55 | 5.36 | 101 | 19 |
| 8 | ... | ... | ... | ... | ... | ... | 5.67 | 187 | 33 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 9 | ... | ... | ... | ... | ... | ... | 2.77 | 221 | 80 | ... | ... | ... | 5.00 | 125 | 25 | ... | ... | ... |
| 10 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3.68 | 94 | 26 | ... | ... | ... |
| 11 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3.07 | 136 | 44 | 5.36 | 128 | 24 | ... | ... | ... |
| 12 | 1.69 | 101 | 60 | ... | ... | ... | 1.95 | 187 | 96 | 3.40 | 150 | 44 | ... | ... | ... | 4.64 | 125 | 27 |
| 13 | 2.65 | 129 | 49 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5.68 | 127 | 22 |
| 14 | 2.64 | 173 | 66 | ... | ... | ... | ... | ... | ... | 4.79 | 129 | 27 | 6.82 | 186 | 27 | 6.51 | 102 | 16 |
| 15 | ... | ... | ... | 2.81 | 167 | 59 | 3.50 | 162 | 46 | ... | ... | ... | ... | ... | ... | 3.74 | 123 | 33 |
| 16 | ... | ... | ... | 1.84 | 110 | 60 | 3.36 | 153 | 46 | ... | ... | ... | 3.61 | 136 | 38 | ... | ... | ... |
| 17 | ... | ... | ... | 2.76 | 177 | 64 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 18 | 3.19 | 189 | 59 | 4.29 | 199 | 46 | ... | ... | ... | ... | ... | ... | 4.15 | 109 | 26 | ... | ... | ... |
| 19 | ... | ... | ... | 3.46 | 208 | 60 | 5.47 | 141 | 26 | 3.39 | 157 | 46 | ... | ... | ... | 4.32 | 148 | 34 |
| 20 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 21 | 2.67 | 122 | 46 | ... | ... | ... | 6.50 | 109 | 17 | 3.86 | 206 | 53 | 2.86 | 86 | 30 | ... | ... | ... |
| 22 | 4.19 | 157 | 38 | 2.14 | 153 | 72 | 4.86 | 135 | 28 | ... | ... | ... | 2.83 | 111 | 39 | 4.93 | 130 | 26 |
| 23 | ... | ... | ... | 2.42 | 152 | 63 | 3.34 | 129 | 39 | ... | ... | ... | 4.95 | 137 | 28 | ... | ... | ... |
| 24 | ... | ... | ... | 1.77 | 131 | 74 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 25 | 2.40 | 120 | 50 | ... | ... | ... | ... | ... | ... | 2.80 | 129 | 46 | ... | ... | ... | ... | ... | ... |
| 26 | ... | ... | ... | 5.51 | 236 | 43 | 3.53 | 110 | 31 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 27 | ... | ... | ... | ... | ... | ... | 3.60 | 151 | 42 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 28 | 1.38 | 64 | 46 | ... | ... | ... | 3.81 | 208 | 55 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 29 | ... | ... | ... | ... | ... | ... | 6.72 | 259 | 39 | ... | ... | ... | 6.75 | 132 | 20 | ... | ... | ... |
| 30 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5.86 | 148 | 25 | 7.00 | 156 | 22 |
| 31 | ... | ... | ... | 2.55 | 150 | 59 | ... | ... | ... | 4.92 | 117 | 24 | ... | ... | ... | ... | ... | ... |
| Mean | 2.38 | 121 | 53 | 2.69 | 159 | 63 | 3.81 | 161 | 48 | 3.76 | 154 | 42 | 4.50 | 132 | 31 | 5.46 | 131 | 25 |
| No. of days used | 9 | 9 | 9 | 13 | 13 | 13 | 17 | 17 | 17 | 10 | 10 | 10 | 15 | 15 | 15 | 9 | 9 | 9 |

Year: Mean
No. of days used

SMOKE CONCENTRATION IN THE AIR

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| | 1966 | | | | | | | | | | | | Complete days only | | | | | | | | | | | | | |
|--------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------------------|
| | Hour GMT | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | Mean | No. of days used |
| | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | to | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| Jan. | 64 | 56 | 52 | 49 | 47 | 45 | 49 | 61 | 88 | 114 | 98 | 90 | 89 | 84 | 80 | 83 | 95 | 103 | 108 | 116 | 119 | 109 | 95 | 74 | 83 | 31 |
| Feb. | 34 | 28 | 25 | 22 | 21 | 20 | 21 | 28 | 37 | 44 | 42 | 45 | 47 | 49 | 48 | 46 | 47 | 55 | 62 | 61 | 59 | 52 | 44 | 37 | 41 | 28 |
| Mar. | 56 | 50 | 45 | 43 | 40 | 45 | 50 | 55 | 53 | 48 | 35 | 33 | 30 | 29 | 28 | 32 | 43 | 59 | 73 | 81 | 85 | 74 | 65 | 50 | 50 | 30 |
| Apr. | 29 | 26 | 22 | 20 | 22 | 27 | 33 | 44 | 50 | 46 | 46 | 36 | 45 | 44 | 39 | 39 | 40 | 39 | 40 | 47 | 51 | 44 | 40 | 35 | 39 | 29 |
| May | 21 | 21 | 19 | 18 | 20 | 22 | 27 | 32 | 28 | 24 | 21 | 15 | 17 | 15 | 14 | 14 | 14 | 17 | 16 | 17 | 19 | 23 | 24 | 24 | 20 | 30 |
| June | 15 | 14 | 11 | 11 | 12 | 17 | 22 | 27 | 23 | 20 | 16 | 13 | 14 | 12 | 11 | 12 | 12 | 15 | 15 | 15 | 16 | 19 | 19 | 17 | 16 | 27 |
| July | 14 | 14 | 12 | 13 | 13 | 15 | 16 | 17 | 18 | 13 | 11 | 10 | 9 | 9 | 10 | 11 | 11 | 11 | 11 | 11 | 13 | 14 | 15 | 14 | 12 | 28 |
| Aug. | 15 | 14 | 14 | 15 | 16 | 15 | 21 | 26 | 27 | 25 | 27 | 19 | 17 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 14 | 17 | 18 | 17 | 31 |
| Sept. | 41 | 38 | 34 | 34 | 38 | 43 | 53 | 55 | 51 | 44 | 35 | 32 | 29 | 28 | 29 | 32 | 34 | 39 | 43 | 44 | 44 | 43 | 43 | 39 | 30 | |
| Oct. | 28 | 27 | 25 | 22 | 24 | 26 | 33 | 45 | 50 | 48 | 44 | 31 | 29 | 28 | 29 | 33 | 42 | 54 | 54 | 59 | 53 | 51 | 40 | 33 | 38 | 25 |
| Nov. | 52 | 39 | 35 | 32 | 28 | 27 | 30 | 37 | 50 | 53 | 52 | 49 | 46 | 47 | 55 | 61 | 67 | 77 | 85 | 82 | 86 | 75 | 70 | 57 | 54 | 25 |
| Dec. | 54 | 56 | 46 | 45 | 38 | 36 | 34 | 36 | 53 | 57 | 59 | 53 | 49 | 45 | 41 | 56 | 72 | 82 | 85 | 86 | 91 | 96 | 88 | 63 | 60 | 22 |
| Year | 423 | 389 | 345 | 326 | 318 | 328 | 374 | 456 | 538 | 551 | 512 | 434 | 426 | 407 | 398 | 424 | 476 | 539 | 589 | 629 | 654 | 632 | 570 | 475 | 39 | 336 |
| Winter | 51 | 45 | 39 | 37 | 33 | 32 | 33 | 41 | 57 | 67 | 63 | 59 | 58 | 56 | 56 | 60 | 70 | 79 | 85 | 86 | 89 | 83 | 74 | 58 | 59 | 106 |
| Spring | 43 | 41 | 36 | 33 | 33 | 33 | 39 | 47 | 53 | 49 | 47 | 35 | 39 | 37 | 34 | 33 | 36 | 41 | 49 | 60 | 66 | 65 | 57 | 50 | 45 | 59 |
| Autumn | 35 | 33 | 29 | 28 | 29 | 32 | 38 | 49 | 53 | 49 | 44 | 33 | 31 | 29 | 29 | 31 | 37 | 44 | 47 | 51 | 49 | 47 | 41 | 38 | 39 | 55 |
| Summer | 16 | 16 | 14 | 14 | 15 | 17 | 21 | 25 | 21 | 20 | 15 | 14 | 13 | 12 | 15 | 12 | 13 | 14 | 15 | 17 | 19 | 19 | 17 | 16 | 116 | |