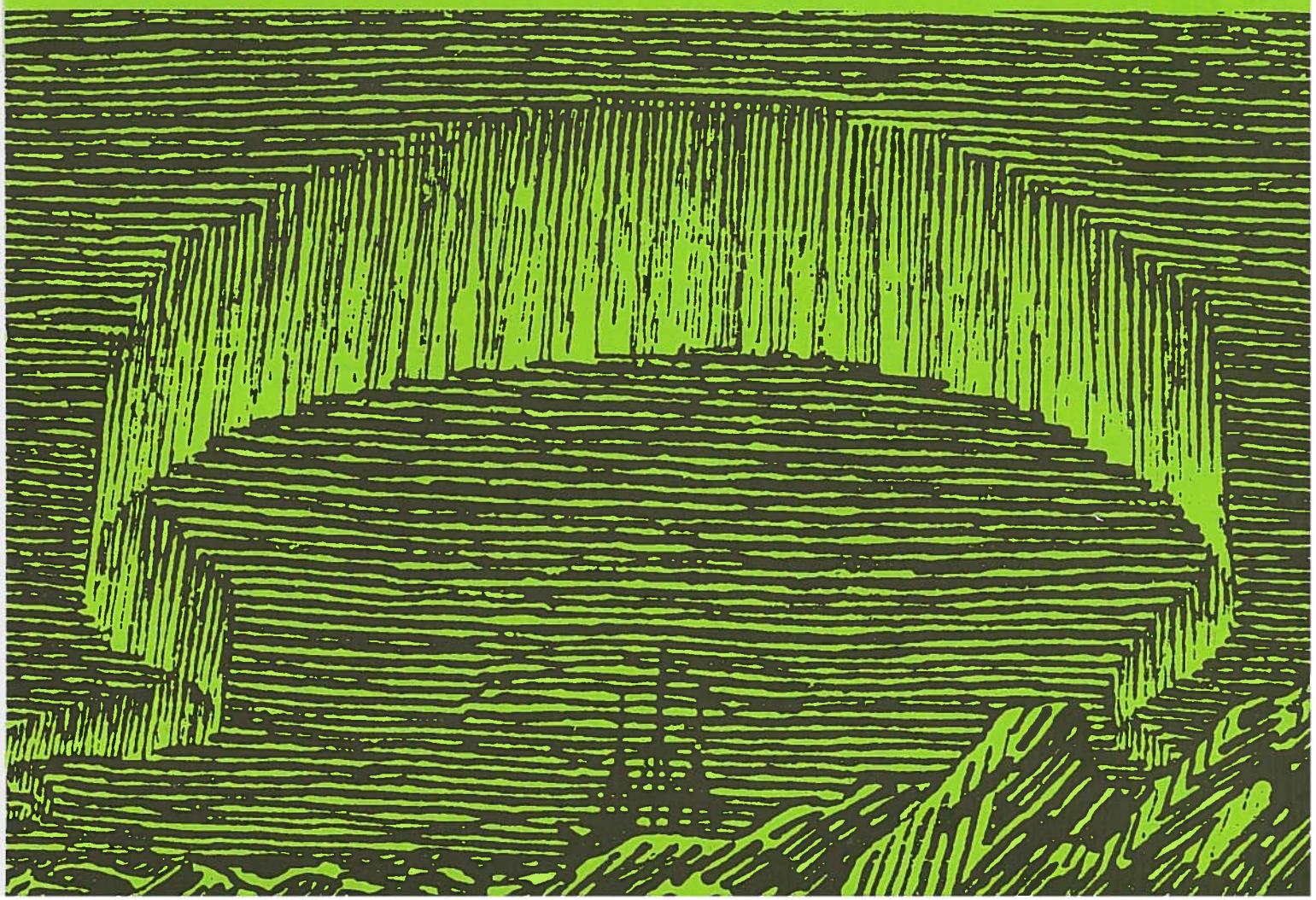
ISSN 0373 - 4854

# THE AURORAL OBSERVATORY

TROMSØ NORWAY

## MAGNETIC OBSERVATIONS 1987



## INTRODUCTION

This yearbook presents the results of the geomagnetic measurements carried out at The Auroral Observatory, Tromsø, Norway. The Observatory is now an institute at The University of Tromsø. Inquiries can be addressed to:

The Auroral Observatory
P.O. Box 953
N-9001 TROMSØ, Norway

The Observatory is situated 2 km NW from the centre of the town. The geographic coordinates are:

Latitude: 69°39'.7 N  Longitude: 18°56'.4 E

Altitude: 105 m above sea level.

### Instrument Equipment

The values of hourly means etc. are based on photographic records from the following three variometers: D and H of the Askania-Bamberg type and a Z-variometer of the type La Cour.

Insensitive recordings of the three elements are obtained by a modified La Cour system.

Pulsating recordings are obtained by a Grenet system.

The following instruments have been used for base-line control: Askania theodolit and a double magnet suspended in a silk-thread for D-measurements, for H-measurements QHM 123 and OHM 164, and for Z-measurements GeoMetric G 826 protonmagnetometer. From 1982 also QD-10 for D-measurements.

### Scale value determinations

The scale value of the variometers are determined by means of Helmholz coils. The values are as follows expressed in units pr. mm:

| | D | H | Z |
|---|---|---|---|
| Normal: | 1'.45 | 5.28 nT | 6.50 nT |
| Storm : | 3'.0 | 22.2 nT | 20.3 nT |

Notes to the tables

The hourly mean values are centered in the half hours. The quiet mean values are estimated from selected quiet hours only.

Universal time is used everywhere in this yearbook, and the declination is reckoned positive towards east.

Stars in the tables indicate that the values are greater than - 999.

ANNUAL MEANS OF THE MAGNETIC ELEMENTS

| Year | D | H | Z | Year | D | H | Z |
|---|---|---|---|---|---|---|---|
| 1930 | 4°07',7 W | 11567 nT | | 1965 | 0°04',6 E | 11251 nT | 51094 nT |
| 31 | 3°59,6 | 49 | 50198 nT | 66 | 04,5 | 60 | 130 |
| 32 | 49,0 | 499 | 95 | 67 | 04.0 | 65 | 60 |
| 33 | 37,3 | 72 | 203 | 68 | 02,0 E | 68 | 96 |
| 34 | 25,9 | 41 | 23 | 69 | 01,5 W | 79 | 235 |
| 35 | 14,3 | 07 | 47 | 70 | 04,2 | 95 | 78 |
| 36 | 04,8 | 379 | 76 | 71 | 05,5 | 333 | 303 |
| 37 | 2°53,7 | 50 | 308 | 72 | 05,5 | 64 | 19 |
| 38 | 44,1 | 25 | 40 | 73 | 03,5 W | 70 | 65 |
| 39 | 35,0 | 297 | 62 | 74 | 00,3 E | 73 | 415 |
| 40 | 26,6 | 78 | 81 | 75 | 02,4 | 84 | 46 |
| 41 | 16,6 | 56 | 417 | 76 | 07,0 | 94 | 66 |
| 42 | 10,6 | 44 | 24 | 77 | 12,0 | 96 | 97 |
| 43 | 02,5 | 22 | 49 | 78 | 19,8 | 85 | 540 |
| 44 | 1°54,3 | 13 | 67 | 79 | 26,3 | 82 | 59 |
| 45 | 45,7 | 199 | 503 | 80 | 32,1 | 73 | 61 |
| 46 | 34,6 | 79 | 54 | 81 | 38,8 | 53 | 86 |
| 47 | 26,5 | 74 | 85 | 82 | 46,9 | 24 | 98 |
| 48 | 18,4 | 56 | 94 | 83 | 52,6 | 05 | 93 |
| 49 | 10,5 | 53 | 612 | 84 | 59,7 | 275 | 91 |
| 50 | 03.6 | 52 | 47 | 85 | 1°05,2 | 54 | 84 |
| 51 | 0°54,1 | 43 | 93 | 86 | 11,5 | 25 | 90 |
| 52 | 43,9 | 44 | 711 | 87 | 17,6 | 13 | 610 |
| 53 | 36,0 | 53 | 24 | | | | |
| 54 | 29,1 | 65 | 44 | | | | |
| 55 | 24,0 | 72 | 76 | | | | |
| 56 | 18,1 | 73 | 825 | | | | |
| 57 | 15,9 | 82 | 68 | | | | |
| 58 | 12,7 | 94 | 902 | | | | |
| 59 | 08,1 | 96 | 35 | | | | |
| 60 | 03,9 | 97 | 80 | | | | |
| 61 | 02,1 W | 214 | 51004 | | | | |
| 62 | 00,1 E | 17 | 37 | | | | |
| 63 | 03,9 | 22 | 65 | | | | |
| 64 | 03,7 | 39 | 88 | | | | |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

January 1987

| Day | 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 | 784 | 784 | 726 | 813 | 726 | 712 | 712 | 654 | 625 | 654 | 683 | 697 | 639 | 639 | 552 | 654 | 784 | 654 | 117 | 900 | 726 | 871 | 842 | 741 | 695 |
| 2 | 726 | 741 | 741 | 726 | 712 | 726 | 726 | 726 | 712 | 683 | 712 | 712 | 683 | 697 | 741 | 712 | 712 | 741 | 741 | 726 | 755 | 770 | 741 | 726 | 724 |
| 3 | 726 | 741 | 741 | 726 | 712 | 683 | 697 | 712 | 712 | 726 | 726 | 712 | 712 | 726 | 726 | 720 | 719 | 714 | 726 | 726 | 741 | 726 | 741 | 755 | 723 |
| 4 | 712 | 726 | 751 | 748 | 745 | 743 | 735 | 733 | 733 | 726 | 726 | 726 | 726 | 726 | 726 | 723 | 719 | 712 | 726 | 712 | 712 | 726 | 741 | 741 | 729 |
| 5 | 748 | 759 | 748 | 726 | 726 | 729 | 726 | 726 | 729 | 719 | 722 | 720 | 719 | 723 | 719 | 712 | 709 | 712 | 712 | 697 | 697 | 712 | 741 | 755 | 724 |
| 6 | 741 | 748 | 752 | 741 | 749 | 746 | 738 | 730 | 720 | 714 | 716 | 719 | 719 | 722 | 719 | 720 | 714 | 719 | 723 | 733 | 741 | 712 | 755 | 639 | 726 |
| 7 | 799 | 784 | 770 | 751 | 743 | 741 | 730 | 719 | 722 | 712 | 714 | 709 | 704 | 703 | 707 | 712 | 704 | 701 | 712 | 726 | 697 | 712 | 741 | 900 | 734 |
| 8 | 828 | 752 | 758 | 738 | 738 | 733 | 733 | 723 | 720 | 697 | 683 | 668 | 654 | 639 | 639 | 668 | 683 | 697 | 726 | 784 | 799 | 871 | 900 | 813 | 735 |
| 9 | 784 | 755 | 755 | 726 | 726 | 712 | 683 | 683 | 712 | 712 | 683 | 697 | 683 | 697 | 712 | 726 | 741 | 770 | 784 | 738 | 736 | 743 | 755 | 741 | 727 |
| 10 | 755 | 726 | 741 | 738 | 733 | 723 | 697 | 712 | 697 | 683 | 697 | 697 | 697 | 716 | 707 | 716 | 726 | 741 | 741 | 741 | 770 | 755 | 743 | 741 | 725 |
| 11 | 736 | 733 | 736 | 733 | 723 | 738 | 741 | 755 | 741 | 726 | 726 | 720 | 717 | 712 | 712 | 706 | 697 | 741 | 755 | 697 | 712 | 726 | 741 | 799 | 730 |
| 12 | 871 | 799 | 741 | 755 | 741 | 654 | 712 | 726 | 712 | 726 | 712 | 697 | 701 | 716 | 712 | 712 | 712 | 726 | 726 | 741 | 741 | 741 | 799 | 857 | 738 |
| 13 | 799 | 755 | 755 | 726 | 729 | 733 | 729 | 729 | 730 | 726 | 719 | 712 | 714 | 714 | 720 | 719 | 712 | 915 | 770 | 741 | 726 | 755 | 770 | 784 | 745 |
| 14 | 770 | 738 | 733 | 729 | 733 | 723 | 726 | 722 | 726 | 697 | 697 | 668 | 654 | 697 | 683 | 683 | 697 | 723 | 722 | 729 | 871 | 770 | 741 | 741 | 724 |
| 15 | 741 | 741 | 736 | 748 | 733 | 733 | 732 | 735 | 729 | 714 | 709 | 709 | 707 | 706 | 707 | 704 | 714 | 701 | 707 | 813 | 770 | 726 | 726 | 1016 | 740 |
| 16 | 799 | 828 | 770 | 755 | 720 | 723 | 722 | 712 | 712 | 712 | 697 | 668 | 697 | 712 | 683 | 683 | 683 | 857 | 857 | 828 | 770 | 784 | 770 | 770 | 746 |
| 17 | 770 | 799 | 784 | 770 | 741 | 726 | 733 | 726 | 719 | 714 | 719 | 719 | 697 | 712 | 697 | 683 | 712 | 668 | 668 | 639 | 712 | 712 | 828 | 1161 | 742 |
| 18 | 900 | 828 | 770 | 733 | 720 | 703 | 706 | 719 | 726 | 726 | 738 | 717 | 719 | 723 | 723 | 729 | 712 | 729 | 729 | 732 | 732 | 726 | 668 | 799 | 738 |
| 19 | 770 | 741 | 741 | 743 | 738 | 729 | 726 | 726 | 723 | 697 | 712 | 697 | 712 | 654 | 668 | 712 | 712 | 712 | 726 | 726 | 726 | 741 | 755 | 784 | 724 |
| 20 | 770 | 755 | 770 | 755 | 741 | 741 | 697 | 712 | 741 | 726 | 712 | 712 | 697 | 683 | 697 | 567 | 538 | 683 | 668 | 726 | 741 | 857 | 944 | 799 | 726 |
| 21 | 755 | 770 | 741 | 755 | 741 | 726 | 755 | 770 | 741 | 726 | 741 | 712 | 755 | 726 | 755 | 755 | 726 | 726 | 813 | 799 | 712 | 784 | 915 | 929 | 763 |
| 22 | 828 | 770 | 741 | 741 | 726 | 726 | 755 | 741 | 755 | 726 | 712 | 712 | 706 | 704 | 741 | 755 | 712 | 683 | 900 | 755 | 741 | 741 | 726 | 813 | 746 |
| 23 | 799 | 758 | 755 | 759 | 697 | 741 | 741 | 738 | 758 | 741 | 784 | 741 | 697 | 726 | 726 | 726 | 755 | 784 | 741 | 726 | 770 | 842 | 871 | 944 | 763 |
| 24 | 828 | 871 | 755 | 712 | 726 | 726 | 726 | 741 | 755 | 726 | 712 | 720 | 726 | 726 | 738 | 732 | 726 | 741 | 755 | 770 | 741 | 784 | 784 | 741 | 748 |
| 25 | 741 | 755 | 770 | 755 | 741 | 726 | 755 | 741 | 755 | 726 | 730 | 741 | 738 | 712 | 733 | 720 | 716 | 770 | 726 | 726 | 770 | 900 | 784 | 741 | 749 |
| 26 | 741 | 755 | 828 | 784 | 770 | 726 | 726 | 726 | 726 | 729 | 722 | 712 | 709 | 755 | 726 | 712 | 726 | 784 | 726 | 735 | 738 | 748 | 751 | 746 | 742 |
| 27 | 748 | 735 | 736 | 741 | 755 | 741 | 741 | 712 | 726 | 726 | 712 | 712 | 712 | 683 | 712 | 729 | 732 | 733 | 735 | 736 | 743 | 752 | 749 | 748 | 731 |
| 28 | 770 | 828 | 784 | 741 | 755 | 726 | 726 | 697 | 697 | 697 | 712 | 726 | 697 | 683 | 697 | 697 | 668 | 799 | 871 | 726 | 668 | 755 | 973 | 929 | 751 |
| 29 | 900 | 1045 | 987 | 871 | 755 | 726 | 741 | 712 | 712 | 712 | 712 | 732 | 729 | 730 | 738 | 738 | 741 | 748 | 743 | 748 | 748 | 741 | 755 | 755 | 771 |
| 30 | 770 | 770 | 784 | 758 | 749 | 749 | 748 | 745 | 736 | 726 | 726 | 726 | 726 | 738 | 741 | 748 | 736 | 733 | 741 | 743 | 736 | 735 | 751 | 770 | 745 |
| 31 | 755 | 842 | 886 | 857 | 842 | 755 | 722 | 730 | 733 | 726 | 726 | 735 | 729 | 730 | 726 | 717 | 716 | 723 | 726 | 726 | 712 | 741 | 784 | 799 | 756 |
| Mean | 779 | 778 | 767 | 753 | 738 | 726 | 727 | 723 | 724 | 714 | 716 | 711 | 706 | 707 | 709 | 709 | 711 | 737 | 726 | 743 | 740 | 763 | 783 | 805 | 737 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

February 1987

| Day | 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 | 842 | 828 | 799 | 828 | 799 | 741 | 733 | 729 | 722 | 719 | 723 | 733 | 736 | 712 | 712 | 741 | 726 | 726 | 755 | 741 | 741 | 755 | 799 | 799 | 756 |
| 2 | 799 | 770 | 770 | 762 | 751 | 745 | 746 | 735 | 733 | 733 | 735 | 741 | 729 | 726 | 745 | 732 | 770 | 726 | 741 | 755 | 755 | 755 | 755 | 755 | 748 |
| 3 | 784 | 784 | 741 | 770 | 755 | 738 | 736 | 733 | 738 | 726 | 723 | 733 | 722 | 723 | 738 | 741 | 741 | 738 | 730 | 755 | 755 | 746 | 745 | 741 | 743 |
| 4 | 745 | 745 | 743 | 746 | 745 | 743 | 741 | 733 | 733 | 726 | 720 | 726 | 720 | 712 | 697 | 668 | 654 | 712 | 741 | 741 | 735 | 736 | 736 | 751 | 727 |
| 5 | 758 | 755 | 752 | 751 | 751 | 746 | 736 | 733 | 726 | 733 | 735 | 730 | 722 | 720 | 716 | 717 | 716 | 714 | 719 | 720 | 722 | 726 | 741 | 784 | 734 |
| 6 | 871 | 915 | 799 | 770 | 770 | 726 | 736 | 736 | 729 | 726 | 726 | 723 | 722 | 697 | 729 | 720 | 707 | 706 | 719 | 723 | 732 | 741 | 886 | 915 | 759 |
| 7 | 857 | 784 | 748 | 745 | 746 | 746 | 741 | 738 | 738 | 720 | 723 | 719 | 697 | 697 | 726 | 697 | 741 | 755 | 755 | 741 | 755 | 900 | 799 | 842 | 754 |
| 8 | 799 | 784 | 813 | 784 | 755 | 755 | 697 | 697 | 726 | 726 | 733 | 738 | 741 | 735 | 697 | 654 | 596 | 668 | 639 | 654 | 828 | 712 | 712 | 813 | 727 |
| 9 | 828 | 842 | 770 | 770 | 755 | 755 | 741 | 741 | 741 | 712 | 726 | 697 | 741 | 712 | 741 | 755 | 784 | 729 | 738 | 745 | 751 | 958 | 1147 | 1016 | 787 |
| 10 | 828 | 813 | 828 | 813 | 784 | 755 | 738 | 733 | 726 | 697 | 726 | 697 | 726 | 726 | 741 | 770 | 784 | 755 | 735 | 741 | 738 | 748 | 755 | 770 | 755 |
| 11 | 784 | 784 | 784 | 745 | 738 | 741 | 743 | 745 | 741 | 738 | 733 | 735 | 735 | 726 | 726 | 722 | 717 | 706 | 755 | 915 | 697 | 741 | 755 | 770 | 749 |
| 12 | 668 | 871 | 857 | 799 | 828 | 799 | 799 | 741 | 697 | 683 | 697 | 712 | 726 | 683 | 654 | 509 | 610 | 581 | 683 | 697 | 741 | 813 | 842 | 857 | 731 |
| 13 | 799 | 857 | 857 | 799 | 726 | 741 | 726 | 735 | 732 | 726 | 726 | 733 | 736 | 735 | 733 | 743 | 732 | 726 | 723 | 712 | 755 | 741 | 751 | 741 | 749 |
| 14 | 746 | 758 | 752 | 751 | 752 | 741 | 726 | 712 | 712 | 726 | 712 | 741 | 748 | 748 | 741 | 770 | 755 | 726 | 770 | 752 | 761 | 770 | 762 | 755 | 745 |
| 15 | 764 | 765 | 764 | 755 | 770 | 755 | 745 | 733 | 729 | 726 | 723 | 720 | 712 | 726 | 741 | 755 | 741 | 726 | 726 | 770 | 770 | 842 | 900 | 784 | 756 |
| 16 | 784 | 784 | 770 | 784 | 755 | 752 | 755 | 749 | 726 | 726 | 741 | 726 | 639 | 668 | 625 | 596 | 625 | 654 | 683 | 1002 | 712 | 770 | 755 | 799 | 732 |
| 17 | 755 | 784 | 759 | 748 | 736 | 712 | 726 | 726 | 712 | 722 | 712 | 714 | 712 | 697 | 712 | 755 | 712 | 712 | 828 | 857 | 697 | 755 | 900 | 871 | 750 |
| 18 | 929 | 828 | 784 | 770 | 752 | 748 | 746 | 741 | 743 | 743 | 726 | 712 | 712 | 733 | 720 | 723 | 736 | 732 | 733 | 736 | 784 | 929 | 915 | 929 | 775 |
| 19 | 784 | 762 | 765 | 759 | 755 | 746 | 738 | 738 | 736 | 733 | 723 | 719 | 712 | 722 | 729 | 729 | 726 | 732 | 729 | 726 | 733 | 738 | 748 | 738 | 738 |
| 20 | 735 | 741 | 743 | 770 | 726 | 697 | 712 | 697 | 668 | 799 | 741 | 712 | 712 | 697 | 741 | 567 | 871 | 741 | 828 | 741 | 755 | 726 | 1002 | 1002 | 755 |
| 21 | 958 | 973 | 900 | 828 | 755 | 741 | 712 | 683 | 610 | 683 | 726 | 726 | 741 | 726 | 726 | 755 | 886 | 726 | 741 | 741 | 1219 | 1016 | 886 | 799 | 802 |
| 22 | 813 | 784 | 784 | 784 | 857 | 842 | 784 | 683 | 726 | 712 | 697 | 741 | 697 | 726 | 741 | 745 | 741 | 755 | 741 | 799 | 755 | 770 | 1118 | 1089 | 787 |
| 23 | 1263 | 944 | 1016 | 871 | 784 | 755 | 726 | 712 | 712 | 726 | 697 | 726 | 712 | 697 | 842 | 726 | 683 | 784 | 770 | 726 | 770 | 784 | 799 | 813 | 793 |
| 24 | 799 | 770 | 770 | 784 | 770 | 741 | 726 | 712 | 712 | 712 | 726 | 712 | 712 | 726 | 741 | 755 | 741 | 770 | 842 | 770 | 915 | 1045 | 944 | 770 | 777 |
| 25 | 900 | 799 | 770 | 784 | 770 | 755 | 741 | 741 | 726 | 726 | 712 | 741 | 729 | 733 | 729 | 732 | 738 | 735 | 770 | 770 | 799 | 784 | 770 | 784 | 760 |
| 26 | 784 | 772 | 775 | 770 | 761 | 755 | 746 | 748 | 735 | 741 | 712 | 726 | 726 | 726 | 726 | 755 | 741 | 741 | 726 | 726 | 741 | 741 | 770 | 784 | 747 |
| 27 | 755 | 784 | 764 | 762 | 761 | 748 | 743 | 726 | 697 | 683 | 668 | 697 | 712 | 712 | 712 | 668 | 567 | 683 | 581 | 755 | 871 | 828 | 755 | 871 | 729 |
| 28 | 813 | 828 | 784 | 784 | 770 | 784 | 741 | 755 | 726 | 755 | 697 | 683 | 697 | 697 | 726 | 741 | 755 | 726 | 770 | 842 | 871 | 886 | 813 | 944 | 774 |
| Mean | 819 | 807 | 791 | 778 | 763 | 750 | 738 | 728 | 720 | 724 | 719 | 722 | 719 | 716 | 725 | 712 | 725 | 721 | 738 | 762 | 780 | 802 | 830 | 831 | 755 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

March 1987

| Day | 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 | 755 | 799 | 799 | 784 | 755 | 755 | 748 | 751 | 741 | 726 | 712 | 719 | 730 | 733 | 726 | 741 | 726 | 784 | 857 | 683 | 770 | 828 | 770 | 755 | 756 |
| 2 | 762 | 762 | 762 | 770 | 772 | 770 | 770 | 755 | 726 | 712 | 712 | 735 | 730 | 719 | 741 | 749 | 752 | 741 | 712 | 741 | 741 | 784 | 813 | 741 | 749 |
| 3 | 755 | 784 | 784 | 770 | 741 | 755 | 741 | 726 | 712 | 712 | 726 | 712 | 697 | 683 | 697 | 697 | 683 | 668 | 697 | 828 | 857 | 842 | 857 | 857 | 749 |
| 4 | 1002 | 886 | 828 | 857 | 842 | 784 | 755 | 726 | 741 | 726 | 697 | 700 | 700 | 683 | 668 | 712 | 697 | 712 | 770 | 741 | 726 | 712 | 857 | 871 | 766 |
| 5 | 799 | 770 | 770 | 813 | 886 | 770 | 770 | 755 | 726 | 726 | 683 | 668 | 625 | 712 | 683 | 668 | 857 | 697 | 697 | 726 | 813 | 784 | 828 | 886 | 754 |
| 6 | 828 | 857 | 799 | 813 | 784 | 784 | 770 | 770 | 755 | 726 | 726 | 697 | 717 | 706 | 719 | 733 | 733 | 729 | 741 | 828 | 1176 | 1190 | 1089 | 1016 | 820 |
| 7 | 871 | 1118 | 1002 | 828 | 842 | 726 | 755 | 697 | 697 | 726 | 712 | 712 | 683 | 755 | 697 | 726 | 738 | 738 | 735 | 871 | 770 | 784 | 799 | 784 | 782 |
| 8 | 755 | 799 | 828 | 770 | 741 | 755 | 726 | 712 | 683 | 726 | 712 | 726 | 726 | 697 | 683 | 857 | 770 | 712 | 712 | 741 | 755 | 770 | 813 | 755 | 747 |
| 9 | 770 | 813 | 987 | 915 | 857 | 784 | 726 | 712 | 741 | 755 | 741 | 726 | 712 | 719 | 726 | 733 | 738 | 741 | 726 | 733 | 741 | 746 | 748 | 770 | 765 |
| 10 | 799 | 784 | 755 | 799 | 813 | 799 | 755 | 770 | 770 | 741 | 741 | 697 | 683 | 668 | 610 | 712 | 755 | 770 | 741 | 749 | 755 | 758 | 762 | 764 | 748 |
| 11 | 764 | 770 | 774 | 770 | 767 | 770 | 770 | 755 | 755 | 726 | 726 | 697 | 683 | 697 | 712 | 726 | 712 | 755 | 857 | 741 | 712 | 726 | 741 | 755 | 744 |
| 12 | 770 | 813 | 857 | 755 | 784 | 770 | 741 | 712 | 683 | 712 | 697 | 726 | 697 | 697 | 726 | 733 | 741 | 733 | 712 | 726 | 1002 | 741 | 842 | 1190 | 773 |
| 13 | 799 | 813 | 799 | 770 | 741 | 741 | 726 | 741 | 755 | 741 | 726 | 697 | 697 | 697 | 726 | 743 | 736 | 741 | 738 | 738 | 745 | 712 | 857 | 842 | 751 |
| 14 | 842 | 799 | 799 | 784 | 755 | 741 | 726 | 741 | 726 | 726 | 712 | 697 | 697 | 668 | 712 | 712 | 712 | 741 | 712 | 712 | 755 | 828 | 813 | 784 | 745 |
| 15 | 842 | 784 | 770 | 813 | 842 | 770 | 770 | 755 | 741 | 726 | 697 | 697 | 654 | 683 | 697 | 726 | 741 | 726 | 726 | 784 | 784 | 770 | 770 | 828 | 754 |
| 16 | 929 | 871 | 755 | 813 | 770 | 784 | 770 | 784 | 770 | 712 | 712 | 668 | 668 | 697 | 712 | 722 | 732 | 738 | 733 | 741 | 857 | 1031 | 1060 | 886 | 788 |
| 17 | 813 | 1045 | 929 | 958 | 958 | 770 | 741 | 770 | 755 | 755 | 726 | 697 | 668 | 654 | 697 | 726 | 741 | 770 | 741 | 726 | 741 | 784 | 770 | 770 | 779 |
| 18 | 784 | 813 | 770 | 770 | 770 | 770 | 784 | 784 | 770 | 741 | 712 | 697 | 668 | 683 | 668 | 697 | 712 | 654 | 697 | 639 | 755 | 784 | 828 | 1480 | 768 |
| 19 | 1074 | 828 | 799 | 755 | 755 | 770 | 784 | 784 | 770 | 741 | 726 | 668 | 683 | 697 | 717 | 732 | 738 | 755 | 755 | 726 | 726 | 958 | 886 | 813 | 777 |
| 20 | 759 | 762 | 767 | 770 | 772 | 780 | 787 | 791 | 778 | 755 | 741 | 709 | 697 | 704 | 714 | 719 | 719 | 720 | 730 | 730 | 755 | 770 | 784 | 770 | 749 |
| 21 | 752 | 758 | 755 | 755 | 784 | 784 | 784 | 770 | 755 | 712 | 697 | 639 | 581 | 552 | 538 | 567 | 465 | 538 | 639 | 755 | 1045 | 828 | 857 | 828 | 714 |
| 22 | 828 | 1031 | 871 | 784 | 775 | 777 | 774 | 772 | 770 | 755 | 726 | 712 | 712 | 714 | 712 | 723 | 712 | 726 | 784 | 755 | 683 | 842 | 929 | 944 | 784 |
| 23 | 799 | 770 | 755 | 755 | 770 | 770 | 784 | 755 | 741 | 726 | 697 | 668 | 654 | 683 | 697 | 730 | 733 | 733 | 726 | 730 | 748 | 752 | 759 | 762 | 737 |
| 24 | 772 | 777 | 774 | 780 | 777 | 775 | 778 | 778 | 770 | 755 | 741 | 716 | 706 | 707 | 722 | 735 | 741 | 738 | 741 | 738 | 743 | 743 | 752 | 751 | 750 |
| 25 | 767 | 767 | 765 | 774 | 777 | 778 | 784 | 791 | 778 | 755 | 726 | 712 | 712 | 697 | 712 | 712 | 668 | 712 | 697 | 741 | 755 | 784 | 857 | 929 | 756 |
| 26 | 1016 | 1002 | 944 | 857 | 784 | 813 | 784 | 784 | 770 | 712 | 726 | 697 | 697 | 654 | 668 | 668 | 683 | 755 | 755 | 726 | 712 | 784 | 784 | 799 | 774 |
| 27 | 813 | 828 | 813 | 1002 | 871 | 770 | 799 | 784 | 770 | 726 | 697 | 726 | 610 | 581 | 596 | 465 | 581 | 683 | 567 | 784 | 741 | 871 | 900 | 813 | 741 |
| 28 | 857 | 944 | 929 | 813 | 813 | 799 | 784 | 770 | 770 | 755 | 741 | 726 | 726 | 712 | 741 | 741 | 755 | 755 | 770 | 712 | 755 | 770 | 755 | 770 | 777 |
| 29 | 770 | 784 | 784 | 784 | 784 | 784 | 755 | 741 | 741 | 726 | 726 | 720 | 719 | 714 | 723 | 729 | 745 | 745 | 736 | 738 | 755 | 784 | 755 | 770 | 750 |
| 30 | 767 | 777 | 777 | 777 | 774 | 774 | 777 | 781 | 778 | 772 | 741 | 712 | 683 | 654 | 654 | 668 | 668 | 683 | 726 | 726 | 745 | 758 | 746 | 752 | 736 |
| 31 | 758 | 752 | 762 | 774 | 767 | 781 | 791 | 784 | 755 | 726 | 712 | 703 | 691 | 690 | 701 | 712 | 726 | 726 | 726 | 726 | 738 | 751 | 758 | 748 | 740 |
| Mean | 818 | 834 | 815 | 804 | 794 | 772 | 765 | 758 | 748 | 733 | 718 | 702 | 687 | 687 | 693 | 710 | 716 | 723 | 731 | 743 | 785 | 805 | 824 | 844 | 759 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

April 1987

| Day | 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 | 755 | 784 | 900 | 944 | 958 | 871 | 813 | 784 | 799 | 741 | 712 | 697 | 683 | 683 | 712 | 712 | 712 | 697 | 712 | 697 | 741 | 784 | 743 | 748 | 766 |
| 2 | 755 | 762 | 770 | 784 | 770 | 784 | 784 | 784 | 755 | 726 | 697 | 683 | 668 | 683 | 712 | 726 | 741 | 741 | 741 | 755 | 748 | 745 | 733 | 738 | 741 |
| 3 | 748 | 755 | 762 | 775 | 784 | 790 | 796 | 791 | 781 | 755 | 741 | 719 | 704 | 709 | 719 | 736 | 741 | 741 | 732 | 730 | 736 | 745 | 748 | 755 | 750 |
| 4 | 765 | 772 | 781 | 784 | 784 | 799 | 813 | 784 | 770 | 755 | 668 | 639 | 567 | 538 | 639 | 625 | 683 | 697 | 722 | 726 | 741 | 764 | 762 | 759 | 722 |
| 5 | 770 | 770 | 828 | 871 | 799 | 813 | 813 | 799 | 755 | 741 | 712 | 697 | 683 | 683 | 683 | 697 | 712 | 813 | 712 | 697 | 726 | 900 | 799 | 784 | 760 |
| 6 | 784 | 784 | 799 | 799 | 770 | 788 | 791 | 791 | 712 | 726 | 726 | 697 | 712 | 683 | 697 | 697 | 654 | 668 | 654 | 712 | 726 | 755 | 741 | 755 | 734 |
| 7 | 755 | 770 | 813 | 799 | 799 | 784 | 784 | 770 | 770 | 755 | 726 | 697 | 683 | 697 | 712 | 726 | 723 | 720 | 736 | 738 | 745 | 761 | 770 | 842 | 753 |
| 8 | 871 | 842 | 842 | 857 | 784 | 799 | 784 | 697 | 784 | 770 | 741 | 697 | 697 | 683 | 697 | 726 | 741 | 712 | 726 | 697 | 1060 | 1016 | 871 | 784 | 786 |
| 9 | 770 | 777 | 784 | 784 | 791 | 799 | 806 | 799 | 784 | 755 | 726 | 697 | 668 | 654 | 654 | 668 | 668 | 683 | 683 | 900 | 784 | 784 | 755 | 770 | 747 |
| 10 | 770 | 886 | 973 | 944 | 799 | 813 | 799 | 770 | 755 | 755 | 712 | 697 | 704 | 716 | 730 | 748 | 749 | 752 | 749 | 755 | 761 | 761 | 748 | 748 | 775 |
| 11 | 755 | 759 | 767 | 784 | 813 | 813 | 813 | 784 | 770 | 755 | 726 | 683 | 683 | 668 | 639 | 712 | 726 | 770 | 738 | 746 | 748 | 752 | 752 | 828 | 749 |
| 12 | 770 | 777 | 780 | 790 | 796 | 787 | 784 | 784 | 755 | 741 | 712 | 683 | 690 | 694 | 719 | 726 | 720 | 729 | 723 | 733 | 730 | 745 | 752 | 761 | 745 |
| 13 | 770 | 784 | 799 | 799 | 799 | 806 | 806 | 791 | 770 | 741 | 712 | 683 | 712 | 726 | 741 | 697 | 567 | 567 | 683 | 828 | 799 | 842 | 944 | 755 | 755 |
| 14 | 755 | 755 | 784 | 799 | 813 | 828 | 813 | 799 | 770 | 755 | 726 | 683 | 639 | 654 | 741 | 726 | 741 | 741 | 726 | 741 | 726 | 741 | 755 | 755 | 748 |
| 15 | 770 | 857 | 813 | 799 | 806 | 820 | 820 | 810 | 784 | 755 | 712 | 683 | 654 | 654 | 683 | 726 | 755 | 741 | 741 | 726 | 799 | 759 | 746 | 743 | 756 |
| 16 | 746 | 745 | 741 | 755 | 799 | 799 | 799 | 767 | 762 | 745 | 712 | 683 | 683 | 697 | 712 | 726 | 765 | 761 | 751 | 741 | 741 | 741 | 738 | 755 | 744 |
| 17 | 842 | 842 | 813 | 804 | 806 | 806 | 813 | 806 | 784 | 755 | 726 | 697 | 668 | 683 | 697 | 726 | 726 | 726 | 743 | 738 | 741 | 741 | 743 | 741 | 757 |
| 18 | 770 | 755 | 777 | 791 | 787 | 781 | 784 | 755 | 755 | 741 | 726 | 697 | 683 | 697 | 712 | 726 | 736 | 738 | 730 | 729 | 755 | 741 | 741 | 741 | 744 |
| 19 | 755 | 741 | 741 | 799 | 799 | 726 | 770 | 813 | 770 | 639 | 668 | 683 | 712 | 726 | 726 | 751 | 752 | 755 | 726 | 712 | 784 | 813 | 726 | 741 | 743 |
| 20 | 755 | 770 | 828 | 857 | 842 | 915 | 842 | 799 | 755 | 654 | 726 | 697 | 712 | 726 | 712 | 741 | 748 | 741 | 735 | 736 | 741 | 752 | 761 | 767 | 763 |
| 21 | 772 | 777 | 784 | 799 | 784 | 784 | 813 | 770 | 755 | 733 | 733 | 722 | 697 | 712 | 726 | 743 | 746 | 749 | 752 | 751 | 748 | 749 | 755 | 759 | 755 |
| 22 | 762 | 770 | 777 | 799 | 799 | 813 | 813 | 799 | 755 | 741 | 726 | 697 | 690 | 685 | 691 | 704 | 709 | 726 | 755 | 712 | 755 | 770 | 828 | 784 | 752 |
| 23 | 770 | 784 | 799 | 799 | 799 | 816 | 813 | 806 | 755 | 726 | 712 | 697 | 703 | 704 | 706 | 714 | 722 | 717 | 723 | 719 | 726 | 755 | 755 | 755 | 749 |
| 24 | 770 | 828 | 842 | 857 | 871 | 828 | 770 | 770 | 741 | 726 | 697 | 683 | 668 | 567 | 639 | 726 | 741 | 741 | 712 | 697 | 654 | 857 | 755 | 741 | 745 |
| 25 | 755 | 770 | 799 | 806 | 806 | 801 | 799 | 770 | 748 | 726 | 714 | 704 | 707 | 712 | 719 | 719 | 733 | 726 | 726 | 712 | 726 | 799 | 799 | 799 | 753 |
| 26 | 755 | 770 | 784 | 806 | 806 | 813 | 806 | 784 | 755 | 741 | 712 | 697 | 683 | 697 | 712 | 726 | 741 | 743 | 733 | 729 | 741 | 748 | 741 | 755 | 749 |
| 27 | 749 | 762 | 777 | 813 | 842 | 828 | 813 | 784 | 770 | 697 | 668 | 625 | 639 | 625 | 639 | 639 | 697 | 726 | 726 | 726 | 741 | 828 | 813 | 828 | 740 |
| 28 | 784 | 784 | 806 | 806 | 806 | 806 | 791 | 784 | 770 | 748 | 733 | 726 | 704 | 712 | 726 | 733 | 741 | 741 | 741 | 738 | 736 | 746 | 784 | 799 | 760 |
| 29 | 755 | 799 | 799 | 809 | 820 | 825 | 799 | 784 | 770 | 755 | 712 | 691 | 690 | 703 | 712 | 704 | 719 | 712 | 683 | 726 | 842 | 799 | 755 | 770 | 755 |
| 30 | 787 | 806 | 810 | 825 | 835 | 830 | 820 | 804 | 770 | 741 | 712 | 687 | 675 | 683 | 700 | 697 | 690 | 685 | 697 | 697 | 712 | 726 | 741 | 784 | 746 |
| Mean | 770 | 784 | 802 | 814 | 809 | 809 | 802 | 784 | 764 | 736 | 714 | 691 | 682 | 682 | 700 | 714 | 720 | 725 | 724 | 735 | 757 | 780 | 768 | 768 | 751 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

May 1987

| Day | 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 | 770 | 778 | 790 | 806 | 806 | 806 | 801 | 784 | 755 | 726 | 697 | 683 | 654 | 668 | 697 | 712 | 741 | 741 | 726 | 726 | 712 | 813 | 784 | 842 | 751 |
| 2 | 842 | 784 | 784 | 806 | 813 | 806 | 784 | 770 | 712 | 697 | 712 | 683 | 668 | 697 | 729 | 733 | 723 | 719 | 714 | 720 | 741 | 741 | 799 | 784 | 748 |
| 3 | 784 | 799 | 813 | 828 | 828 | 828 | 813 | 799 | 770 | 726 | 712 | 683 | 683 | 726 | 732 | 741 | 733 | 712 | 712 | 697 | 712 | 741 | 755 | 755 | 753 |
| 4 | 784 | 784 | 813 | 828 | 813 | 799 | 784 | 741 | 712 | 726 | 700 | 701 | 704 | 712 | 741 | 726 | 706 | 709 | 714 | 712 | 741 | 777 | 777 | 784 | 749 |
| 5 | 791 | 791 | 806 | 810 | 813 | 806 | 801 | 784 | 755 | 741 | 726 | 697 | 683 | 697 | 726 | 726 | 697 | 683 | 726 | 712 | 770 | 743 | 748 | 759 | 750 |
| 6 | 770 | 784 | 799 | 816 | 820 | 823 | 820 | 813 | 770 | 741 | 712 | 697 | 668 | 683 | 697 | 683 | 668 | 625 | 610 | 625 | 654 | 726 | 828 | 857 | 737 |
| 7 | 1031 | 1132 | 1089 | 958 | 958 | 784 | 842 | 813 | 770 | 712 | 683 | 675 | 668 | 680 | 697 | 741 | 726 | 729 | 726 | 720 | 719 | 755 | 828 | 813 | 802 |
| 8 | 842 | 871 | 857 | 842 | 813 | 799 | 784 | 770 | 741 | 726 | 712 | 712 | 694 | 685 | 694 | 838 | 726 | 712 | 712 | 726 | 726 | 741 | 755 | 770 | 760 |
| 9 | 784 | 799 | 799 | 799 | 813 | 799 | 799 | 784 | 755 | 726 | 712 | 697 | 690 | 697 | 707 | 722 | 733 | 730 | 726 | 712 | 712 | 741 | 770 | 784 | 749 |
| 10 | 784 | 799 | 799 | 828 | 813 | 813 | 813 | 799 | 741 | 726 | 712 | 683 | 639 | 610 | 712 | 712 | 712 | 712 | 683 | 741 | 726 | 735 | 748 | 755 | 741 |
| 11 | 770 | 799 | 820 | 828 | 830 | 832 | 813 | 799 | 755 | 741 | 712 | 700 | 704 | 712 | 720 | 729 | 726 | 733 | 697 | 712 | 683 | 886 | 842 | 799 | 764 |
| 12 | 799 | 813 | 820 | 820 | 819 | 813 | 809 | 784 | 770 | 741 | 741 | 712 | 691 | 694 | 704 | 714 | 719 | 716 | 726 | 697 | 712 | 741 | 784 | 755 | 754 |
| 13 | 777 | 784 | 794 | 825 | 828 | 820 | 816 | 799 | 741 | 726 | 697 | 654 | 668 | 683 | 668 | 668 | 625 | 639 | 654 | 712 | 683 | 697 | 871 | 958 | 741 |
| 14 | 915 | 973 | 900 | 871 | 874 | 871 | 842 | 770 | 712 | 697 | 683 | 668 | 668 | 683 | 683 | 654 | 712 | 726 | 712 | 712 | 697 | 741 | 828 | 799 | 766 |
| 15 | 770 | 770 | 799 | 799 | 828 | 813 | 813 | 784 | 755 | 726 | 712 | 697 | 668 | 697 | 712 | 712 | 730 | 729 | 732 | 732 | 730 | 770 | 770 | 755 | 750 |
| 16 | 784 | 784 | 784 | 813 | 828 | 828 | 813 | 799 | 755 | 741 | 726 | 697 | 683 | 697 | 726 | 741 | 726 | 726 | 712 | 726 | 741 | 741 | 770 | 784 | 755 |
| 17 | 784 | 770 | 799 | 813 | 828 | 842 | 828 | 799 | 741 | 726 | 712 | 690 | 697 | 704 | 697 | 703 | 697 | 700 | 697 | 726 | 755 | 784 | 755 | 784 | 751 |
| 18 | 799 | 799 | 828 | 819 | 817 | 810 | 804 | 784 | 770 | 755 | 729 | 719 | 716 | 726 | 733 | 729 | 726 | 720 | 712 | 707 | 714 | 726 | 755 | 784 | 757 |
| 19 | 784 | 813 | 813 | 813 | 813 | 806 | 793 | 799 | 794 | 784 | 741 | 709 | 704 | 712 | 717 | 719 | 733 | 712 | 706 | 704 | 717 | 712 | 712 | 755 | 753 |
| 20 | 828 | 799 | 857 | 842 | 828 | 813 | 784 | 799 | 755 | 741 | 726 | 712 | 701 | 685 | 690 | 691 | 712 | 700 | 704 | 706 | 683 | 784 | 799 | 784 | 755 |
| 21 | 784 | 799 | 813 | 828 | 816 | 810 | 809 | 799 | 770 | 748 | 741 | 729 | 716 | 712 | 714 | 720 | 729 | 720 | 716 | 719 | 726 | 748 | 751 | 762 | 757 |
| 22 | 784 | 799 | 813 | 842 | 857 | 842 | 813 | 784 | 755 | 741 | 726 | 697 | 668 | 668 | 668 | 668 | 639 | 654 | 654 | 668 | 683 | 755 | 871 | 900 | 748 |
| 23 | 915 | 828 | 857 | 842 | 857 | 842 | 828 | 799 | 755 | 712 | 683 | 668 | 683 | 697 | 712 | 697 | 712 | 668 | 639 | 639 | 683 | 842 | 799 | 784 | 756 |
| 24 | 886 | 929 | 857 | 929 | 886 | 842 | 842 | 799 | 813 | 755 | 683 | 639 | 639 | 654 | 625 | 654 | 625 | 422 | 567 | 523 | 639 | 741 | 857 | 1016 | 742 |
| 25 | 1060 | 1103 | 1277 | 1002 | 1219 | 958 | 1031 | 842 | 726 | 712 | 683 | 668 | 683 | 683 | 668 | 712 | 712 | 726 | 741 | 726 | 748 | 759 | 774 | 777 | 833 |
| 26 | 784 | 799 | 813 | 828 | 828 | 828 | 799 | 755 | 726 | 697 | 683 | 697 | 668 | 610 | 610 | 610 | 596 | 581 | 552 | 596 | 900 | 828 | 871 | 973 | 734 |
| 27 | 973 | 1263 | 1219 | 1147 | 1089 | 987 | 915 | 784 | 828 | 842 | 871 | 726 | 625 | 581 | 654 | 741 | 770 | 784 | 770 | 712 | 683 | 828 | 741 | 799 | 847 |
| 28 | 784 | 784 | 813 | 842 | 857 | 857 | 828 | 799 | 770 | 741 | 683 | 683 | 668 | 697 | 743 | 741 | 741 | 733 | 712 | 639 | 770 | 697 | 683 | 987 | 760 |
| 29 | 973 | 1176 | 1306 | 1118 | 1074 | 886 | 871 | 755 | 784 | 712 | 784 | 770 | 697 | 639 | 654 | 668 | 726 | 683 | 712 | 726 | 762 | 777 | 772 | 780 | 825 |
| 30 | 794 | 793 | 813 | 842 | 857 | 854 | 848 | 813 | 784 | 799 | 683 | 697 | 697 | 712 | 683 | 683 | 683 | 697 | 654 | 654 | 683 | 712 | 813 | 871 | 755 |
| 31 | 871 | 886 | 871 | 871 | 842 | 857 | 842 | 813 | 813 | 784 | 726 | 683 | 639 | 581 | 538 | 378 | 494 | 378 | 465 | 494 | 610 | 726 | 886 | 857 | 704 |
| Mean | 832 | 857 | 871 | 860 | 863 | 834 | 825 | 791 | 760 | 737 | 716 | 694 | 678 | 680 | 692 | 699 | 700 | 684 | 686 | 688 | 716 | 758 | 790 | 818 | 760 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

June 1987

| Day | 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 | 973 | 1045 | 944 | 813 | 828 | 828 | 842 | 799 | 770 | 741 | 741 | 683 | 654 | 668 | 654 | 697 | 697 | 654 | 654 | 639 | 639 | 668 | 726 | 712 | 753 |
| 2 | 1045 | 958 | 857 | 886 | 871 | 828 | 813 | 784 | 770 | 741 | 726 | 726 | 712 | 741 | 738 | 733 | 743 | 741 | 736 | 743 | 741 | 784 | 813 | 807 | 793 |
| 3 | 807 | 820 | 828 | 842 | 842 | 842 | 842 | 828 | 799 | 755 | 741 | 726 | 712 | 712 | 732 | 726 | 723 | 712 | 697 | 726 | 755 | 741 | 799 | 813 | 771 |
| 4 | 813 | 813 | 828 | 857 | 871 | 886 | 871 | 842 | 784 | 755 | 741 | 712 | 697 | 683 | 654 | 668 | 668 | 654 | 639 | 683 | 726 | 741 | 755 | 770 | 754 |
| 5 | 842 | 828 | 813 | 828 | 857 | 828 | 842 | 857 | 799 | 755 | 726 | 712 | 726 | 697 | 683 | 639 | 596 | 639 | 668 | 668 | 712 | 755 | 813 | 857 | 756 |
| 6 | 792 | 806 | 821 | 821 | 821 | 835 | 806 | 937 | 864 | 792 | 589 | 531 | 545 | 531 | 473 | 502 | 589 | 545 | 589 | 473 | 705 | 792 | 792 | 864 | 700 |
| 7 | 821 | 1038 | 821 | 821 | 835 | 821 | 806 | 821 | 792 | 777 | 719 | 676 | 690 | 690 | 734 | 661 | 632 | 574 | 574 | 574 | 603 | 647 | 792 | 937 | 744 |
| 8 | 893 | 864 | 864 | 850 | 850 | 835 | 821 | 806 | 777 | 748 | 734 | 719 | 705 | 719 | 734 | 719 | 719 | 731 | 736 | 745 | 745 | 777 | 792 | 777 | 777 |
| 9 | 821 | 821 | 838 | 844 | 838 | 806 | 792 | 806 | 792 | 763 | 748 | 734 | 723 | 722 | 722 | 734 | 734 | 726 | 723 | 719 | 719 | 719 | 777 | 821 | 768 |
| 10 | 924 | 953 | 880 | 866 | 837 | 837 | 837 | 808 | 793 | 750 | 721 | 706 | 677 | 648 | 663 | 706 | 721 | 735 | 735 | 721 | 721 | 735 | 764 | 779 | 771 |
| 11 | 798 | 812 | 827 | 827 | 827 | 812 | 798 | 798 | 725 | 725 | 711 | 682 | 682 | 682 | 667 | 653 | 667 | 682 | 667 | 624 | 696 | 725 | 740 | 754 | 732 |
| 12 | 749 | 807 | 836 | 865 | 822 | 778 | 778 | 778 | 764 | 720 | 720 | 691 | 706 | 720 | 691 | 691 | 662 | 648 | 648 | 662 | 749 | 865 | 836 | 807 | 750 |
| 13 | 884 | 841 | 870 | 855 | 870 | 812 | 797 | 783 | 739 | 710 | 681 | 681 | 667 | 710 | 696 | 681 | 681 | 696 | 696 | 681 | 725 | 768 | 797 | 826 | 756 |
| 14 | 783 | 855 | 841 | 826 | 855 | 841 | 870 | 797 | 768 | 754 | 754 | 710 | 667 | 667 | 667 | 696 | 698 | 717 | 722 | 722 | 725 | 725 | 783 | 884 | 763 |
| 15 | 812 | 797 | 826 | 841 | 855 | 855 | 841 | 812 | 768 | 739 | 710 | 696 | 681 | 681 | 696 | 696 | 667 | 681 | 696 | 681 | 696 | 725 | 754 | 826 | 751 |
| 16 | 862 | 934 | 891 | 891 | 891 | 891 | 862 | 804 | 731 | 731 | 702 | 659 | 644 | 659 | 644 | 644 | 659 | 659 | 630 | 601 | 601 | 833 | 818 | 862 | 754 |
| 17 | 846 | 875 | 831 | 817 | 831 | 817 | 802 | 817 | 802 | 773 | 730 | 686 | 657 | 672 | 672 | 686 | 701 | 718 | 711 | 709 | 686 | 701 | 759 | 846 | 756 |
| 18 | 946 | 859 | 859 | 844 | 859 | 888 | 859 | 830 | 757 | 714 | 685 | 656 | 670 | 699 | 714 | 728 | 728 | 699 | 699 | 670 | 685 | 714 | 728 | 714 | 758 |
| 19 | 959 | 1075 | 930 | 872 | 872 | 814 | 828 | 843 | 814 | 683 | 669 | 654 | 640 | 640 | 654 | 669 | 698 | 712 | 712 | 683 | 669 | 669 | 915 | 1060 | 780 |
| 20 | 915 | 857 | 814 | 828 | 828 | 828 | 814 | 814 | 785 | 741 | 698 | 654 | 669 | 669 | 640 | 596 | 567 | 582 | 553 | 654 | 712 | 756 | 741 | 857 | 732 |
| 21 | 872 | 843 | 857 | 857 | 843 | 828 | 828 | 814 | 770 | 756 | 727 | 727 | 702 | 695 | 695 | 702 | 698 | 683 | 683 | 712 | 712 | 741 | 770 | 828 | 764 |
| 22 | 843 | 843 | 814 | 814 | 814 | 828 | 814 | 799 | 770 | 741 | 712 | 683 | 677 | 674 | 680 | 698 | 727 | 727 | 712 | 712 | 727 | 770 | 756 | 785 | 755 |
| 23 | 831 | 860 | 875 | 860 | 846 | 831 | 817 | 802 | 788 | 773 | 744 | 730 | 708 | 708 | 709 | 701 | 715 | 730 | 715 | 657 | 773 | 744 | 773 | 788 | 770 |
| 24 | 815 | 819 | 821 | 825 | 825 | 840 | 840 | 811 | 738 | 738 | 724 | 695 | 680 | 668 | 661 | 670 | 651 | 637 | 622 | 564 | 608 | 651 | 738 | 898 | 731 |
| 25 | 851 | 851 | 807 | 807 | 822 | 836 | 836 | 836 | 778 | 749 | 706 | 691 | 677 | 662 | 691 | 706 | 706 | 677 | 590 | 604 | 590 | 677 | 735 | 822 | 738 |
| 26 | 893 | 1197 | 1400 | 1212 | 994 | 849 | 806 | 791 | 719 | 704 | 701 | 704 | 700 | 690 | 690 | 704 | 690 | 661 | 603 | 704 | 704 | 733 | 733 | 777 | 806 |
| 27 | 832 | 832 | 832 | 846 | 846 | 817 | 832 | 817 | 803 | 788 | 730 | 716 | 658 | 687 | 701 | 716 | 730 | 716 | 716 | 730 | 716 | 745 | 759 | 774 | 764 |
| 28 | 730 | 730 | 759 | 803 | 788 | 759 | 774 | 774 | 730 | 701 | 655 | 646 | 636 | 637 | 634 | 639 | 639 | 639 | 640 | 647 | 658 | 672 | 730 | 817 | 701 |
| 29 | 759 | 774 | 774 | 788 | 759 | 759 | 759 | 730 | 716 | 716 | 687 | 687 | 629 | 629 | 643 | 629 | 614 | 643 | 614 | 643 | 658 | 658 | 817 | 948 | 709 |
| 30 | 904 | 817 | 788 | 803 | 803 | 817 | 803 | 817 | 788 | 759 | 708 | 701 | 708 | 721 | 718 | 708 | 711 | 723 | 730 | 734 | 730 | 759 | 759 | 788 | 762 |
| Mean | 854 | 874 | 858 | 850 | 843 | 828 | 821 | 812 | 773 | 743 | 711 | 689 | 676 | 679 | 678 | 680 | 681 | 678 | 670 | 669 | 696 | 733 | 775 | 826 | 754 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

July 1987

| Day | 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 | 788 | 802 | 817 | 831 | 846 | 846 | 831 | 817 | 788 | 759 | 737 | 722 | 715 | 708 | 701 | 701 | 701 | 701 | 708 | 715 | 744 | 715 | 773 | 788 | 760 |
| 2 | 831 | 846 | 860 | 860 | 846 | 802 | 817 | 817 | 788 | 759 | 730 | 715 | 708 | 701 | 701 | 708 | 715 | 715 | 708 | 686 | 788 | 759 | 831 | 846 | 772 |
| 3 | 889 | 889 | 860 | 831 | 831 | 831 | 831 | 817 | 802 | 773 | 751 | 730 | 715 | 715 | 715 | 715 | 722 | 730 | 730 | 657 | 614 | 657 | 846 | 1121 | 782 |
| 4 | 991 | 991 | 918 | 918 | 904 | 904 | 860 | 831 | 809 | 788 | 759 | 744 | 730 | 722 | 730 | 722 | 715 | 715 | 701 | 715 | 759 | 817 | 817 | 846 | 808 |
| 5 | 831 | 860 | 904 | 904 | 889 | 846 | 831 | 788 | 788 | 744 | 686 | 701 | 686 | 701 | 701 | 730 | 715 | 715 | 715 | 715 | 730 | 759 | 817 | 860 | 775 |
| 6 | 904 | 875 | 860 | 860 | 846 | 831 | 817 | 802 | 788 | 759 | 730 | 730 | 701 | 715 | 715 | 730 | 715 | 701 | 701 | 686 | 701 | 759 | 802 | 802 | 772 |
| 7 | 802 | 817 | 831 | 846 | 831 | 846 | 846 | 831 | 802 | 788 | 759 | 715 | 730 | 730 | 730 | 730 | 715 | 701 | 686 | 672 | 701 | 759 | 773 | 773 | 767 |
| 8 | 817 | 889 | 846 | 817 | 788 | 802 | 759 | 744 | 773 | 773 | 744 | 715 | 701 | 701 | 730 | 686 | 686 | 701 | 686 | 701 | 715 | 802 | 875 | 947 | 766 |
| 9 | 875 | 846 | 860 | 889 | 860 | 817 | 773 | 802 | 817 | 773 | 701 | 701 | 672 | 686 | 715 | 701 | 672 | 686 | 701 | 686 | 686 | 802 | 962 | 846 | 772 |
| 10 | 875 | 947 | 1049 | 1020 | 875 | 831 | 831 | 788 | 730 | 759 | 744 | 672 | 730 | 512 | 541 | 701 | 686 | 715 | 715 | 701 | 730 | 744 | 759 | 788 | 768 |
| 11 | 831 | 846 | 875 | 875 | 846 | 831 | 846 | 788 | 773 | 759 | 744 | 715 | 672 | 686 | 715 | 686 | 701 | 701 | 701 | 715 | 730 | 744 | 802 | 875 | 769 |
| 12 | 860 | 831 | 860 | 860 | 831 | 860 | 875 | 846 | 831 | 817 | 744 | 701 | 686 | 672 | 686 | 686 | 715 | 744 | 744 | 730 | 730 | 773 | 875 | 976 | 789 |
| 13 | 976 | 947 | 831 | 860 | 860 | 860 | 860 | 846 | 817 | 773 | 730 | 672 | 672 | 686 | 701 | 715 | 715 | 715 | 722 | 730 | 730 | 730 | 788 | 947 | 787 |
| 14 | 875 | 904 | 860 | 846 | 875 | 889 | 846 | 846 | 817 | 780 | 759 | 744 | 722 | 708 | 715 | 715 | 715 | 715 | 722 | 730 | 715 | 715 | 773 | 860 | 785 |
| 15 | 860 | 904 | 904 | 875 | 831 | 788 | 788 | 744 | 715 | 788 | 744 | 715 | 657 | 628 | 672 | 628 | 585 | 614 | 628 | 628 | 643 | 875 | 947 | 1049 | 759 |
| 16 | 1078 | 1092 | 1353 | 1382 | 947 | 875 | 846 | 846 | 802 | 802 | 744 | 701 | 686 | 701 | 672 | 744 | 701 | 657 | 715 | 686 | 701 | 715 | 773 | 962 | 841 |
| 17 | 1063 | 1063 | 962 | 918 | 1063 | 875 | 817 | 860 | 846 | 831 | 773 | 744 | 730 | 657 | 730 | 715 | 730 | 730 | 715 | 672 | 730 | 788 | 860 | 860 | 822 |
| 18 | 1005 | 875 | 904 | 962 | 933 | 846 | 817 | 817 | 802 | 788 | 759 | 715 | 730 | 715 | 686 | 715 | 759 | 730 | 701 | 686 | 802 | 831 | 831 | 817 | 801 |
| 19 | 831 | 918 | 831 | 904 | 875 | 860 | 846 | 831 | 817 | 817 | 773 | 715 | 686 | 686 | 686 | 715 | 701 | 701 | 672 | 672 | 730 | 831 | 904 | 947 | 789 |
| 20 | 962 | 933 | 889 | 889 | 889 | 875 | 860 | 846 | 817 | 788 | 759 | 730 | 701 | 701 | 701 | 686 | 686 | 730 | 701 | 730 | 701 | 657 | 860 | 846 | 789 |
| 21 | 933 | 846 | 846 | 846 | 875 | 875 | 889 | 875 | 817 | 773 | 744 | 715 | 701 | 701 | 730 | 730 | 744 | 773 | 715 | 715 | 730 | 744 | 788 | 817 | 788 |
| 22 | 947 | 962 | 904 | 889 | 889 | 889 | 875 | 831 | 802 | 744 | 759 | 730 | 715 | 701 | 730 | 744 | 744 | 759 | 730 | 672 | 730 | 773 | 875 | 889 | 803 |
| 23 | 860 | 875 | 875 | 875 | 875 | 889 | 889 | 875 | 860 | 817 | 759 | 730 | 744 | 730 | 701 | 686 | 686 | 657 | 628 | 686 | 715 | 933 | 802 | 831 | 791 |
| 24 | 831 | 846 | 846 | 846 | 860 | 831 | 831 | 831 | 802 | 773 | 744 | 701 | 672 | 686 | 672 | 701 | 672 | 585 | 585 | 730 | 672 | 657 | 773 | 686 | 743 |
| 25 | 831 | 904 | 904 | 918 | 875 | 846 | 846 | 817 | 802 | 817 | 802 | 686 | 672 | 657 | 628 | 628 | 643 | 628 | 686 | 701 | 744 | 962 | 860 | 875 | 780 |
| 26 | 875 | 875 | 889 | 860 | 860 | 860 | 846 | 802 | 788 | 744 | 715 | 693 | 693 | 701 | 715 | 730 | 744 | 759 | 759 | 759 | 751 | 744 | 759 | 802 | 780 |
| 27 | 788 | 788 | 846 | 860 | 846 | 817 | 780 | 780 | 759 | 744 | 708 | 679 | 679 | 686 | 701 | 715 | 751 | 751 | 751 | 744 | 737 | 737 | 759 | 773 | 757 |
| 28 | 802 | 824. | 831 | 838 | 860 | 867 | 860 | 846 | 831 | 773 | 773 | 686 | 686 | 657 | 628 | 541 | 454 | 527 | 614 | 541 | 672 | 701 | 686 | 802 | 721 |
| 29 | 831 | 1212 | 571 | 1426 | 1208 | 1310 | 1281 | 1049 | 976 | 831 | 875 | 802 | 802 | 773 | 701 | 730 | 773 | 773 | 773 | 759 | 744 | 759 | 773 | 802 | 977 |
| 30 | 889 | 1049 | 947 | 889 | 860 | 846 | 831 | 773 | 773 | 759 | 759 | 730 | 686 | 686 | 701 | 715 | 759 | 715 | 730 | 701 | 701 | 715 | 730 | 759 | 779 |
| 31 | 976 | 1121 | 1131 | 1237 | 1092 | 904 | 933 | 846 | 773 | 773 | 744 | 730 | 701 | 701 | 715 | 715 | 730 | 715 | 701 | 672 | 686 | 715 | 773 | 773 | 835 |
| Mean | 887 | 912 | 962 | 923 | 889 | 866 | 853 | 827 | 803 | 779 | 750 | 715 | 702 | 690 | 695 | 702 | 701 | 702 | 701 | 696 | 718 | 763 | 814 | 857 | 788 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

August 1987

| Day | 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 | 817 | 933 | 1005 | 1005 | 947 | 788 | 715 | 730 | 831 | 773 | 730 | 686 | 643 | 686 | 715 | 730 | 759 | 744 | 715 | 730 | 715 | 744 | 788 | 875 | 783 |
| 2 | 976 | 904 | 889 | 860 | 860 | 889 | 875 | 875 | 860 | 831 | 788 | 744 | 730 | 730 | 730 | 759 | 744 | 730 | 744 | 715 | 744 | 759 | 802 | 817 | 806 |
| 3 | 846 | 889 | 947 | 947 | 875 | 831 | 860 | 846 | 831 | 788 | 788 | 759 | 701 | 643 | 628 | 614 | 585 | 527 | 599 | 701 | 759 | 759 | 802 | 846 | 765 |
| 4 | 809 | 809 | 817 | 831 | 831 | 824 | 824 | 831 | 802 | 773 | 744 | 701 | 686 | 686 | 701 | 715 | 701 | 715 | 686 | 657 | 701 | 831 | 904 | 875 | 769 |
| 5 | 904 | 1194 | 1194 | 947 | 846 | 875 | 846 | 817 | 788 | 831 | 715 | 715 | 686 | 686 | 657 | 701 | 744 | 730 | 701 | 686 | 759 | 875 | 817 | 831 | 814 |
| 6 | 846 | 860 | 860 | 904 | 889 | 875 | 875 | 846 | 831 | 788 | 759 | 730 | 730 | 715 | 657 | 701 | 744 | 701 | 715 | 730 | 788 | 817 | 860 | 875 | 795 |
| 7 | 860 | 904 | 875 | 846 | 846 | 846 | 838 | 817 | 802 | 780 | 759 | 737 | 722 | 737 | 759 | 773 | 773 | 759 | 744 | 715 | 744 | 773 | 788 | 802 | 791 |
| 8 | 831 | 846 | 846 | 860 | 846 | 788 | 788 | 773 | 788 | 759 | 759 | 715 | 701 | 686 | 715 | 643 | 686 | 657 | 599 | 672 | 657 | 759 | 759 | 904 | 751 |
| 9 | 1165 | 1063 | 875 | 904 | 875 | 831 | 846 | 831 | 802 | 744 | 715 | 701 | 686 | 701 | 672 | 628 | 672 | 701 | 686 | 686 | 715 | 744 | 802 | 831 | 786 |
| 10 | 846 | 846 | 831 | 877 | 877 | 872 | 867 | 831 | 780 | 759 | 730 | 711 | 709 | 718 | 744 | 759 | 759 | 730 | 672 | 701 | 744 | 773 | 802 | 788 | 780 |
| 11 | 817 | 860 | 860 | 846 | 860 | 875 | 860 | 838 | 788 | 744 | 701 | 669 | 666 | 679 | 686 | 730 | 744 | 715 | 701 | 701 | 715 | 831 | 846 | 802 | 772 |
| 12 | 904 | 1034 | 918 | 1005 | 904 | 889 | 860 | 846 | 817 | 788 | 715 | 686 | 643 | 628 | 585 | 556 | 614 | 686 | 672 | 788 | 773 | 817 | 1020 | 1513 | 819 |
| 13 | 1121 | 1049 | 991 | 904 | 904 | 918 | 904 | 947 | 875 | 759 | 744 | 701 | 701 | 730 | 715 | 759 | 773 | 730 | 701 | 701 | 730 | 976 | 933 | 918 | 841 |
| 14 | 904 | 1063 | 947 | 947 | 1049 | 918 | 875 | 846 | 817 | 788 | 759 | 715 | 701 | 715 | 686 | 657 | 715 | 730 | 701 | 730 | 904 | 875 | 846 | 962 | 827 |
| 15 | 962 | 889 | 889 | 904 | 933 | 889 | 875 | 860 | 846 | 817 | 744 | 701 | 715 | 686 | 701 | 759 | 715 | 715 | 686 | 933 | 773 | 976 | 817 | 875 | 819 |
| 16 | 831 | 1049 | 846 | 759 | 759 | 701 | 672 | 657 | 657 | 773 | 730 | 686 | 715 | 686 | 701 | 730 | 759 | 744 | 744 | 831 | 744 | 831 | 802 | 831 | 760 |
| 17 | 846 | 904 | 904 | 889 | 889 | 860 | 875 | 860 | 817 | 759 | 730 | 715 | 701 | 686 | 715 | 556 | 686 | 715 | 686 | 701 | 831 | 788 | 831 | 904 | 785 |
| 18 | 846 | 817 | 860 | 947 | 846 | 860 | 788 | 831 | 817 | 788 | 773 | 744 | 730 | 715 | 715 | 730 | 701 | 686 | 701 | 715 | 759 | 744 | 802 | 817 | 780 |
| 19 | 817 | 831 | 933 | 904 | 904 | 802 | 846 | 788 | 773 | 773 | 744 | 715 | 686 | 701 | 715 | 730 | 701 | 686 | 686 | 701 | 715 | 744 | 817 | 875 | 774 |
| 20 | 1020 | 933 | 889 | 889 | 860 | 860 | 846 | 831 | 802 | 773 | 744 | 730 | 701 | 715 | 715 | 759 | 759 | 730 | 715 | 744 | 759 | 788 | 817 | 831 | 800 |
| 21 | 904 | 889 | 918 | 831 | 846 | 860 | 860 | 831 | 802 | 773 | 759 | 730 | 715 | 715 | 744 | 759 | 730 | 715 | 759 | 759 | 744 | 788 | 788 | 817 | 793 |
| 22 | 824 | 834 | 838 | 838 | 838 | 835 | 846 | 802 | 802 | 773 | 737 | 693 | 672 | 686 | 715 | 715 | 686 | 657 | 672 | 730 | 802 | 773 | 817 | 846 | 768 |
| 23 | 817 | 831 | 831 | 817 | 802 | 817 | 831 | 817 | 817 | 788 | 744 | 715 | 701 | 672 | 599 | 570 | 599 | 599 | 657 | 686 | 701 | 889 | 846 | 846 | 749 |
| 24 | 860 | 831 | 875 | 860 | 846 | 860 | 875 | 831 | 817 | 802 | 744 | 715 | 686 | 643 | 672 | 715 | 701 | 686 | 657 | 686 | 701 | 759 | 788 | 817 | 768 |
| 25 | 831 | 831 | 831 | 817 | 817 | 831 | 846 | 831 | 802 | 817 | 802 | 860 | 817 | 773 | 701 | 556 | 338 | 179 | 527 | 599 | 556 | 715 | 947 | 860 | 728 |
| 26 | 991 | 1063 | 1440 | 1426 | 1194 | 875 | 904 | 846 | 802 | 730 | 701 | 686 | 701 | 672 | 614 | 701 | 686 | 657 | 628 | 628 | 599 | 962 | 918 | 933 | 848 |
| 27 | 947 | 1005 | 860 | 904 | 875 | 889 | 860 | 773 | 817 | 773 | 730 | 657 | 599 | 599 | 628 | 614 | 744 | 585 | 585 | 628 | 744 | 744 | 802 | 831 | 758 |
| 28 | 846 | 846 | 846 | 860 | 889 | 846 | 831 | 817 | 788 | 773 | 759 | 744 | 744 | 730 | 744 | 701 | 759 | 817 | 730 | 730 | 759 | 875 | 933 | 1092 | 810 |
| 29 | 1092 | 962 | 889 | 860 | 875 | 875 | 860 | 846 | 802 | 773 | 744 | 744 | 730 | 730 | 730 | 701 | 643 | 672 | 628 | 875 | 788 | 802 | 802 | 831 | 802 |
| 30 | 904 | 860 | 831 | 889 | 860 | 875 | 875 | 846 | 744 | 730 | 759 | 759 | 744 | 744 | 730 | 701 | 730 | 759 | 744 | 701 | 773 | 730 | 1121 | 991 | 808 |
| 31 | 933 | 918 | 875 | 904 | 889 | 817 | 788 | 773 | 686 | 730 | 759 | 730 | 701 | 744 | 541 | 614 | 657 | 585 | 585 | 686 | 759 | 744 | 889 | 962 | 761 |
| Mean | 900 | 921 | 910 | 902 | 881 | 850 | 842 | 823 | 800 | 776 | 745 | 719 | 702 | 698 | 688 | 688 | 697 | 679 | 678 | 717 | 740 | 806 | 848 | 890 | 787 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

September 1987

Hourly mean values

| Day | 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 | 976 | 1005 | 1092 | 1310 | 1121 | 976 | 744 | 715 | 759 | 715 | 701 | 730 | 860 | 701 | 628 | 846 | 643 | 628 | 759 | 715 | 744 | 1165 | 701 | 1107 | 847 |
| 2 | 947 | 1020 | 1005 | 947 | 875 | 817 | 831 | 802 | 831 | 773 | 759 | 759 | 744 | 730 | 744 | 744 | 759 | 817 | 802 | 802 | 889 | 875 | 817 | 802 | 829 |
| 3 | 817 | 824 | 831 | 831 | 838 | 846 | 838 | 831 | 809 | 788 | 773 | 751 | 730 | 744 | 759 | 773 | 780 | 788 | 788 | 788 | 788 | 788 | 788 | 802 | 795 |
| 4 | 817 | 817 | 831 | 824 | 831 | 831 | 831 | 831 | 809 | 788 | 759 | 737 | 701 | 715 | 715 | 686 | 715 | 744 | 715 | 730 | 831 | 846 | 846 | 947 | 787 |
| 5 | 962 | 933 | 904 | 889 | 846 | 817 | 817 | 788 | 802 | 788 | 759 | 722 | 686 | 730 | 737 | 744 | 759 | 744 | 730 | 715 | 701 | 759 | 846 | 860 | 793 |
| 6 | 846 | 991 | 1020 | 962 | 853 | 846 | 838 | 831 | 824 | 780 | 759 | 701 | 737 | 730 | 730 | 730 | 686 | 672 | 657 | 672 | 947 | 831 | 918 | 860 | 809 |
| 7 | 846 | 831 | 838 | 846 | 846 | 846 | 846 | 846 | 817 | 788 | 759 | 715 | 672 | 686 | 657 | 715 | 744 | 744 | 744 | 730 | 744 | 802 | 643 | 1179 | 787 |
| 8 | 1121 | 1020 | 918 | 831 | 831 | 831 | 817 | 802 | 773 | 744 | 730 | 715 | 730 | 744 | 759 | 759 | 759 | 744 | 759 | 744 | 788 | 759 | 817 | 860 | 806 |
| 9 | 831 | 846 | 860 | 846 | 817 | 831 | 846 | 846 | 817 | 759 | 730 | 701 | 730 | 744 | 759 | 773 | 780 | 773 | 759 | 773 | 715 | 817 | 817 | 846 | 792 |
| 10 | 846 | 817 | 817 | 831 | 838 | 846 | 846 | 838 | 802 | 759 | 744 | 701 | 628 | 483 | 512 | 759 | 657 | 672 | 730 | 643 | 759 | 1005 | 1121 | 773 | 768 |
| 11 | 1237 | 1672 | 1116 | 51063 | 918 | 831 | 831 | 846 | 846 | 788 | 759 | 759 | 686 | 686 | 686 | 715 | 585 | 614 | 686 | 701 | 701 | 686 | 904 | 875 | 843 |
| 12 | 860 | 889 | 904 | 918 | 976 | 860 | 831 | 846 | 831 | 802 | 759 | 715 | 701 | 672 | 657 | 672 | 802 | 715 | 817 | 802 | 860 | 889 | 1121 | 1034 | 830 |
| 13 | 1034 | 1223 | 1281 | 1020 | 875 | 860 | 860 | 860 | 802 | 773 | 730 | 701 | 657 | 599 | 541 | 657 | 643 | 701 | 744 | 773 | 788 | 802 | 831 | 628 | 807 |
| 14 | 802 | 1165 | 1165 | 1165 | 889 | 831 | 831 | 831 | 802 | 773 | 759 | 730 | 730 | 657 | 715 | 744 | 744 | 744 | 759 | 875 | 976 | 1034 | 846 | 831 | 850 |
| 15 | 889 | 1049 | 976 | 904 | 860 | 860 | 802 | 831 | 875 | 817 | 773 | 715 | 701 | 744 | 701 | 657 | 715 | 759 | 672 | 599 | 773 | 1020 | 918 | 1208 | 826 |
| 16 | 875 | 1121 | 875 | 904 | 846 | 846 | 817 | 846 | 802 | 759 | 773 | 730 | 701 | 730 | 744 | 715 | 701 | 701 | 730 | 744 | 817 | 831 | 991 | 918 | 813 |
| 17 | 1020 | 947 | 860 | 817 | 831 | 831 | 788 | 802 | 802 | 817 | 773 | 759 | 715 | 730 | 715 | 759 | 715 | 701 | 686 | 846 | 831 | 860 | 846 | 1237 | 820 |
| 18 | 947 | 860 | 860 | 846 | 831 | 817 | 817 | 817 | 788 | 773 | 759 | 744 | 759 | 759 | 759 | 773 | 773 | 773 | 773 | 788 | 788 | 846 | 846 | 860 | 806 |
| 19 | 846 | 824 | 817 | 817 | 809 | 817 | 817 | 817 | 802 | 788 | 780 | 759 | 759 | 759 | 759 | 759 | 773 | 780 | 773 | 773 | 788 | 802 | 795 | 788 | 791 |
| 20 | 802 | 802 | 802 | 802 | 802 | 802 | 809 | 802 | 788 | 780 | 737 | 715 | 701 | 730 | 730 | 701 | 628 | 643 | 875 | 686 | 657 | 759 | 759 | 759 | 753 |
| 21 | 846 | 889 | 904 | 976 | 846 | 831 | 817 | 802 | 788 | 788 | 759 | 715 | 686 | 672 | 730 | 744 | 730 | 730 | 715 | 701 | 744 | 773 | 802 | 817 | 783 |
| 22 | 918 | 1034 | 1034 | 1078 | 1049 | 860 | 802 | 759 | 773 | 759 | 744 | 715 | 730 | 730 | 744 | 701 | 643 | 541 | 672 | 643 | 744 | 744 | 860 | 846 | 797 |
| 23 | 1078 | 1382 | 1643 | 1092 | 904 | 831 | 817 | 817 | 773 | 715 | 715 | 701 | 715 | 730 | 759 | 773 | 780 | 759 | 773 | 773 | 802 | 860 | 831 | 817 | 868 |
| 24 | 817 | 817 | 831 | 947 | 846 | 889 | 860 | 846 | 802 | 773 | 744 | 730 | 715 | 730 | 759 | 773 | 780 | 773 | 759 | 759 | 788 | 773 | 788 | 802 | 796 |
| 25 | 817 | 802 | 773 | 759 | 715 | 701 | 701 | 744 | 701 | 730 | 759 | 759 | 614 | 614 | 483 | 657 | 541 | 425 | 585 | 628 | 730 | 802 | 701 | 1353 | 712 |
| 26 | 889 | 846 | 860 | 933 | 860 | 918 | 889 | 846 | 788 | 759 | 730 | 715 | 686 | 701 | 730 | 744 | 759 | 715 | 701 | 802 | 788 | 802 | 802 | 773 | 793 |
| 27 | 831 | 846 | 831 | 831 | 831 | 824 | 817 | 802 | 788 | 759 | 730 | 722 | 715 | 701 | 730 | 744 | 701 | 643 | 701 | 701 | 730 | 817 | 831 | 831 | 769 |
| 28 | 1049 | 1411 | 1281 | 918 | 860 | 831 | 831 | 802 | 788 | 744 | 744 | 730 | 715 | 730 | 730 | 715 | 773 | 773 | 759 | 933 | 1005 | 846 | 715 | 817 | 854 |
| 29 | 860 | 1020 | 962 | 933 | 817 | 802 | 773 | 788 | 788 | 788 | 759 | 701 | 759 | 715 | 701 | 773 | 657 | 570 | 556 | 599 | 788 | 875 | 1107 | 976 | 794 |
| 30 | 991 | 1063 | 1339 | 1281 | 1339 | 846 | 802 | 846 | 744 | 773 | 759 | 759 | 759 | 701 | 788 | 947 | 831 | 512 | 788 | 744 | 933 | 904 | 875 | 773 | 879 |
| Mean | 914 | 992 | 976 | 937 | 880 | 839 | 819 | 816 | 797 | 771 | 750 | 727 | 714 | 703 | 705 | 742 | 718 | 696 | 732 | 739 | 798 | 846 | 849 | 899 | 807 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

October 1987

Hourly mean values

| Day | 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 | 976 | 846 | 860 | 846 | 846 | 831 | 817 | 802 | 773 | 744 | 759 | 759 | 744 | 788 | 788 | 802 | 846 | 759 | 759 | 788 | 802 | 918 | 846 | 846 | 814 |
| 2 | 860 | 875 | 947 | 918 | 831 | 831 | 802 | 802 | 817 | 773 | 744 | 744 | 773 | 744 | 773 | 788 | 788 | 773 | 802 | 773 | 785 | 793 | 795 | 805 | 806 |
| 3 | 811 | 817 | 817 | 821 | 817 | 788 | 730 | 773 | 686 | 701 | 773 | 672 | 802 | 846 | 846 | 701 | 440 | 382 | 556 | 875 | 715 | 759 | 817 | 918 | 744 |
| 4 | 918 | 962 | 947 | 904 | 846 | 802 | 788 | 802 | 788 | 759 | 744 | 744 | 730 | 730 | 802 | 788 | 715 | 759 | 788 | 773 | 788 | 788 | 846 | 875 | 807 |
| 5 | 846 | 831 | 846 | 846 | 831 | 802 | 802 | 773 | 773 | 759 | 744 | 744 | 730 | 715 | 715 | 730 | 744 | 773 | 744 | 730 | 788 | 846 | 904 | 860 | 786 |
| 6 | 846 | 838 | 831 | 831 | 817 | 802 | 802 | 788 | 773 | 773 | 773 | 777 | 770 | 773 | 776 | 785 | 793 | 792 | 788 | 802 | 831 | 904 | 904 | 846 | 809 |
| 7 | 846 | 846 | 831 | 817 | 817 | 817 | 802 | 788 | 788 | 773 | 759 | 730 | 701 | 715 | 686 | 715 | 744 | 759 | 773 | 788 | 802 | 831 | 831 | 860 | 784 |
| 8 | 889 | 976 | 918 | 860 | 831 | 817 | 817 | 802 | 802 | 788 | 773 | 715 | 744 | 730 | 744 | 773 | 773 | 759 | 701 | 759 | 759 | 846 | 824 | 827 | 801 |
| 9 | 824 | 814 | 817 | 817 | 817 | 817 | 809 | 802 | 788 | 788 | 773 | 759 | 759 | 773 | 780 | 788 | 788 | 776 | 759 | 715 | 788 | 933 | 947 | 1020 | 810 |
| 10 | 1049 | 962 | 962 | 788 | 860 | 831 | 817 | 831 | 831 | 817 | 788 | 759 | 744 | 766 | 766 | 769 | 773 | 744 | 730 | 730 | 788 | 788 | 802 | 846 | 814 |
| 11 | 860 | 817 | 918 | 918 | 875 | 875 | 802 | 817 | 802 | 802 | 759 | 744 | 744 | 730 | 585 | 730 | 875 | 527 | 628 | 1020 | 904 | 831 | 817 | 831 | 800 |
| 12 | 889 | 831 | 846 | 817 | 831 | 817 | 831 | 831 | 817 | 802 | 802 | 773 | 759 | 759 | 701 | 759 | 773 | 759 | 744 | 773 | 788 | 802 | 860 | 875 | 801 |
| 13 | 947 | 1063 | 918 | 860 | 831 | 817 | 802 | 802 | 817 | 802 | 788 | 715 | 686 | 556 | 541 | 512 | 686 | 846 | 875 | 1049 | 1121 | 918 | 875 | 1005 | 826 |
| 14 | 1136 | 1252 | 1165 | 1092 | 889 | 817 | 802 | 802 | 802 | 773 | 802 | 744 | 730 | 643 | 701 | 657 | 875 | 875 | 759 | 657 | 802 | 846 | 773 | 947 | 847 |
| 15 | 918 | 846 | 1092 | 947 | 817 | 773 | 773 | 817 | 802 | 788 | 802 | 744 | 701 | 657 | 715 | 715 | 904 | 759 | 802 | 773 | 889 | 904 | 846 | 860 | 818 |
| 16 | 831 | 875 | 860 | 831 | 846 | 831 | 802 | 788 | 773 | 788 | 773 | 759 | 744 | 730 | 802 | 773 | 701 | 802 | 701 | 802 | 875 | 875 | 860 | 904 | 805 |
| 17 | 904 | 817 | 831 | 817 | 831 | 831 | 831 | 817 | 817 | 802 | 802 | 701 | 686 | 628 | 744 | 686 | 817 | 759 | 686 | 788 | 976 | 672 | 817 | 831 | 787 |
| 18 | 875 | 802 | 831 | 817 | 817 | 824 | 824 | 819 | 809 | 788 | 773 | 759 | 744 | 773 | 788 | 773 | 788 | 788 | 793 | 792 | 817 | 846 | 817 | 802 | 802 |
| 19 | 829 | 800 | 829 | 807 | 800 | 800 | 807 | 807 | 807 | 742 | 727 | 698 | 669 | 698 | 713 | 684 | 742 | 727 | 742 | 756 | 814 | 800 | 800 | 843 | 768 |
| 20 | 872 | 814 | 814 | 814 | 800 | 800 | 814 | 814 | 800 | 771 | 756 | 713 | 698 | 684 | 669 | 698 | 626 | 466 | 669 | 640 | 771 | 1133 | 1090 | 1090 | 784 |
| 21 | 1119 | 1235 | 1133 | 1017 | 974 | 858 | 800 | 756 | 771 | 727 | 742 | 742 | 713 | 713 | 684 | 655 | 611 | 698 | 684 | 640 | 916 | 872 | 800 | 800 | 819 |
| 22 | 814 | 814 | 814 | 800 | 800 | 802 | 795 | 794 | 797 | 779 | 776 | 775 | 756 | 756 | 778 | 773 | 778 | 773 | 778 | 776 | 756 | 785 | 785 | 829 | 787 |
| 23 | 1061 | 1191 | 1032 | 930 | 887 | 814 | 771 | 771 | 785 | 756 | 742 | 727 | 698 | 698 | 756 | 742 | 829 | 771 | 771 | 771 | 814 | 887 | 829 | 800 | 826 |
| 24 | 814 | 814 | 800 | 843 | 829 | 800 | 800 | 771 | 771 | 785 | 771 | 742 | 727 | 698 | 684 | 698 | 713 | 640 | 597 | 481 | 843 | 945 | 974 | 887 | 767 |
| 25 | 988 | 1278 | 988 | 1017 | 1264 | 742 | 756 | 727 | 785 | 814 | 756 | 698 | 684 | 727 | 814 | 771 | 785 | 814 | 887 | 814 | 843 | 1061 | 959 | 887 | 869 |
| 26 | 901 | 901 | 843 | 814 | 829 | 785 | 727 | 742 | 771 | 785 | 684 | 669 | 698 | 713 | 742 | 756 | 800 | 887 | 785 | 800 | 800 | 814 | 872 | 887 | 792 |
| 27 | 959 | 1090 | 1017 | 945 | 1032 | 785 | 800 | 742 | 785 | 684 | 669 | 727 | 814 | 727 | 713 | 756 | 655 | 756 | 495 | 843 | 843 | 1003 | 916 | 901 | 819 |
| 28 | 203 | 2127 | 8 | 974 | 988 | 988 | 916 | 698 | 698 | 771 | 713 | 858 | 800 | 698 | 698 | 582 | 742 | 727 | 771 | 684 | 872 | 916 | 1017 | 901 | 884 |
| 29 | 901 | 930 | 945 | 901 | 843 | 814 | 785 | 829 | 814 | 930 | 901 | 785 | 742 | 829 | 945 | 785 | 785 | 771 | 756 | 887 | 756 | 742 | 814 | 930 | 838 |
| 30 | 916 | 945 | 901 | 814 | 814 | 800 | 727 | 771 | 785 | 814 | 742 | 742 | 742 | 756 | 800 | 771 | 785 | 800 | 800 | 785 | 800 | 887 | 945 | 872 | 813 |
| 31 | 858 | 872 | 814 | 814 | 800 | 771 | 742 | 742 | 756 | 771 | 771 | 742 | 742 | 756 | 727 | 742 | 771 | 727 | 742 | 1278 | 800 | 872 | 858 | 916 | 807 |
| Mean | 945 | 936 | 908 | 872 | 861 | 813 | 789 | 788 | 789 | 777 | 768 | 739 | 731 | 726 | 737 | 736 | 756 | 741 | 734 | 798 | 828 | 868 | 862 | 880 | 808 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

November 1987

| Day | 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 | 887 | 916 | 887 | 858 | 814 | 800 | 756 | 742 | 756 | 771 | 756 | 742 | 727 | 727 | 727 | 756 | 756 | 858 | 800 | 785 | 800 | 785 | 800 | 814 | 792 |
| 2 | 829 | 843 | 916 | 872 | 800 | 785 | 756 | 771 | 771 | 756 | 756 | 713 | 698 | 684 | 626 | 684 | 872 | 437 | 408 | 626 | 988 | 1351 | 887 | 959 | 783 |
| 3 | 916 | 901 | 930 | 814 | 814 | 814 | 800 | 800 | 800 | 771 | 727 | 698 | 655 | 655 | 727 | 742 | 669 | 539 | 916 | 901 | 756 | 1423 | 1206 | 1075 | 835 |
| 4 | 988 | 829 | 814 | 843 | 814 | 785 | 800 | 785 | 800 | 800 | 785 | 771 | 763 | 756 | 756 | 756 | 756 | 756 | 756 | 771 | 727 | 742 | 843 | 901 | 796 |
| 5 | 887 | 872 | 821 | 821 | 829 | 829 | 821 | 814 | 814 | 785 | 742 | 727 | 742 | 742 | 742 | 727 | 669 | 640 | 626 | 756 | 698 | 771 | 974 | 930 | 782 |
| 6 | 945 | 1003 | 901 | 858 | 858 | 843 | 756 | 756 | 785 | 785 | 800 | 771 | 756 | 684 | 713 | 742 | 756 | 771 | 742 | 756 | 785 | 785 | 800 | 785 | 797 |
| 7 | 785 | 814 | 814 | 814 | 814 | 814 | 821 | 800 | 800 | 800 | 785 | 778 | 771 | 771 | 771 | 778 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 792 | 792 |
| 8 | 800 | 807 | 814 | 800 | 800 | 807 | 807 | 800 | 800 | 785 | 778 | 771 | 763 | 756 | 756 | 749 | 749 | 756 | 771 | 785 | 792 | 800 | 807 | 814 | 786 |
| 9 | 807 | 807 | 814 | 814 | 814 | 807 | 800 | 800 | 800 | 792 | 756 | 713 | 713 | 698 | 698 | 684 | 713 | 742 | 713 | 756 | 829 | 771 | 1061 | 930 | 784 |
| 10 | 1235 | 1017 | 959 | 771 | 843 | 829 | 756 | 771 | 800 | 756 | 742 | 756 | 742 | 742 | 756 | 713 | 756 | 771 | 785 | 785 | 756 | 756 | 785 | 727 | 804 |
| 11 | 713 | 698 | 756 | 742 | 843 | 814 | 713 | 814 | 771 | 771 | 742 | 727 | 756 | 756 | 742 | 742 | 756 | 756 | 727 | 756 | 771 | 872 | 1116 | 2126 | 798 |
| 12 | 1641 | 1104 | 843 | 814 | 771 | 814 | 800 | 771 | 771 | 771 | 785 | 756 | 742 | 742 | 727 | 727 | 742 | 742 | 742 | 727 | 945 | 843 | 1278 | 1075 | 861 |
| 13 | 1133 | 945 | 988 | 959 | 843 | 800 | 800 | 800 | 771 | 785 | 800 | 756 | 756 | 771 | 901 | 814 | 988 | 872 | 785 | 771 | 771 | 800 | 901 | 1003 | 854 |
| 14 | 930 | 887 | 872 | 872 | 872 | 814 | 800 | 785 | 785 | 814 | 742 | 727 | 800 | 756 | 756 | 756 | 814 | 959 | 756 | 785 | 814 | 872 | 988 | 945 | 829 |
| 15 | 988 | 959 | 959 | 858 | 829 | 800 | 785 | 771 | 771 | 814 | 771 | 771 | 756 | 756 | 727 | 785 | 771 | 959 | 872 | 916 | 785 | 843 | 858 | 829 | 830 |
| 16 | 800 | 829 | 843 | 800 | 800 | 785 | 800 | 785 | 785 | 771 | 756 | 756 | 763 | 771 | 771 | 763 | 785 | 858 | 785 | 800 | 814 | 800 | 814 | 814 | 793 |
| 17 | 800 | 800 | 792 | 800 | 800 | 807 | 800 | 800 | 792 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 785 | 800 | 814 | 800 | 793 |
| 18 | 814 | 814 | 810 | 814 | 814 | 800 | 785 | 778 | 785 | 785 | 771 | 756 | 749 | 756 | 756 | 756 | 756 | 756 | 756 | 785 | 800 | 829 | 843 | 814 | 787 |
| 19 | 800 | 800 | 814 | 785 | 684 | 713 | 742 | 756 | 756 | 756 | 756 | 742 | 742 | 713 | 713 | 742 | 829 | 785 | 814 | 742 | 872 | 901 | 872 | 829 | 777 |
| 20 | 858 | 872 | 872 | 901 | 843 | 785 | 727 | 742 | 771 | 742 | 771 | 756 | 756 | 771 | 756 | 771 | 742 | 800 | 727 | 814 | 727 | 742 | 814 | 916 | 790 |
| 21 | 930 | 872 | 829 | 829 | 814 | 771 | 742 | 771 | 785 | 814 | 778 | 771 | 771 | 771 | 771 | 771 | 771 | 771 | 785 | 814 | 785 | 800 | 800 | 800 | 796 |
| 22 | 872 | 872 | 814 | 843 | 858 | 814 | 800 | 785 | 785 | 785 | 785 | 771 | 756 | 771 | 771 | 785 | 771 | 771 | 771 | 771 | 843 | 988 | 930 | 916 | 818 |
| 23 | 843 | 843 | 872 | 814 | 829 | 756 | 756 | 829 | 669 | 800 | 698 | 669 | 800 | 727 | 742 | 742 | 771 | 727 | 988 | 1206 | 959 | 916 | 1032 | 1061 | 835 |
| 24 | 1278 | 1017 | 1075 | 872 | 785 | 756 | 771 | 713 | 756 | 872 | 727 | 742 | 742 | 713 | 872 | 713 | 872 | 800 | 742 | 771 | 800 | 959 | 1032 | 1017 | 850 |
| 25 | 901 | 800 | 814 | 785 | 785 | 785 | 742 | 727 | 756 | 771 | 785 | 785 | 756 | 727 | 858 | 727 | 756 | 814 | 771 | 771 | 872 | 901 | 887 | 742 | 792 |
| 26 | 727 | 974 | 858 | 887 | 829 | 771 | 756 | 756 | 771 | 785 | 771 | 742 | 727 | 698 | 669 | 727 | 727 | 727 | 785 | 800 | 785 | 800 | 843 | 1017 | 789 |
| 27 | 945 | 1220 | 1351 | 988 | 1017 | 887 | 771 | 771 | 814 | 742 | 800 | 800 | 713 | 727 | 640 | 626 | 698 | 872 | 756 | 814 | 843 | 945 | 829 | 800 | 848 |
| 28 | 800 | 785 | 800 | 814 | 829 | 800 | 785 | 785 | 771 | 771 | 771 | 756 | 713 | 742 | 771 | 800 | 785 | 756 | 829 | 829 | 785 | 800 | 829 | 843 | 789 |
| 29 | 814 | 800 | 802 | 800 | 797 | 797 | 800 | 802 | 802 | 788 | 782 | 778 | 782 | 785 | 785 | 782 | 778 | 782 | 785 | 788 | 792 | 795 | 797 | 792 | 792 |
| 30 | 789 | 788 | 788 | 789 | 792 | 795 | 792 | 792 | 789 | 781 | 773 | 771 | 771 | 771 | 771 | 771 | 771 | 771 | 756 | 742 | 742 | 792 | 800 | 800 | 779 |
| Mean | 915 | 883 | 874 | 834 | 821 | 799 | 778 | 779 | 779 | 783 | 766 | 752 | 749 | 741 | 752 | 747 | 771 | 770 | 767 | 796 | 807 | 865 | 902 | 893 | 805 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

December 1987

| Day | 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 | 802 | 807 | 807 | 807 | 789 | 792 | 789 | 788 | 785 | 759 | 760 | 756 | 727 | 713 | 713 | 771 | 756 | 785 | 771 | 756 | 771 | 785 | 800 | 814 | 775 |
| 2 | 797 | 791 | 804 | 802 | 800 | 810 | 811 | 802 | 785 | 781 | 778 | 775 | 778 | 782 | 779 | 785 | 788 | 792 | 792 | 782 | 792 | 791 | 795 | 814 | 792 |
| 3 | 872 | 887 | 800 | 843 | 858 | 829 | 829 | 785 | 771 | 785 | 771 | 742 | 756 | 756 | 713 | 713 | 771 | 756 | 785 | 829 | 771 | 814 | 814 | 843 | 795 |
| 4 | 843 | 800 | 814 | 800 | 804 | 810 | 805 | 800 | 797 | 778 | 771 | 775 | 771 | 778 | 773 | 779 | 756 | 814 | 843 | 727 | 785 | 814 | 771 | 1467 | 820 |
| 5 | 1351 | 959 | 814 | 785 | 756 | 698 | 742 | 727 | 771 | 742 | 756 | 742 | 727 | 742 | 771 | 727 | 655 | 669 | 713 | 669 | 785 | 829 | 843 | 843 | 784 |
| 6 | 829 | 814 | 800 | 829 | 829 | 800 | 800 | 785 | 800 | 800 | 800 | 785 | 785 | 771 | 742 | 858 | 771 | 756 | 756 | 771 | 800 | 872 | 901 | 829 | 803 |
| 7 | 814 | 829 | 829 | 800 | 785 | 785 | 785 | 800 | 791 | 779 | 788 | 789 | 792 | 789 | 781 | 792 | 771 | 785 | 829 | 756 | 785 | 807 | 811 | 811 | 795 |
| 8 | 808 | 810 | 811 | 808 | 805 | 800 | 800 | 797 | 794 | 789 | 785 | 785 | 785 | 788 | 794 | 792 | 797 | 797 | 797 | 814 | 814 | 795 | 797 | 800 | 798 |
| 9 | 807 | 814 | 811 | 810 | 807 | 795 | 794 | 788 | 782 | 775 | 775 | 778 | 778 | 782 | 785 | 782 | 782 | 778 | 779 | 771 | 785 | 727 | 814 | 756 | 786 |
| 10 | 727 | 800 | 814 | 829 | 814 | 800 | 785 | 800 | 785 | 756 | 742 | 756 | 742 | 727 | 669 | 524 | 727 | 669 | 742 | 756 | 771 | 945 | 930 | 829 | 768 |
| 11 | 829 | 959 | 945 | 872 | 829 | 814 | 807 | 807 | 802 | 792 | 789 | 792 | 800 | 756 | 771 | 887 | 843 | 727 | 887 | 771 | 771 | 684 | 785 | 887 | 817 |
| 12 | 872 | 916 | 901 | 829 | 829 | 800 | 785 | 785 | 756 | 771 | 771 | 785 | 771 | 756 | 771 | 756 | 756 | 771 | 800 | 814 | 800 | 814 | 829 | 814 | 802 |
| 13 | 810 | 817 | 808 | 805 | 805 | 807 | 807 | 800 | 792 | 792 | 789 | 785 | 781 | 779 | 775 | 781 | 843 | 771 | 785 | 829 | 814 | 843 | 814 | 800 | 801 |
| 14 | 800 | 821 | 810 | 821 | 811 | 802 | 795 | 794 | 800 | 789 | 785 | 794 | 771 | 775 | 782 | 778 | 776 | 785 | 756 | 771 | 785 | 800 | 829 | 814 | 793 |
| 15 | 814 | 817 | 810 | 804 | 800 | 795 | 794 | 785 | 771 | 742 | 760 | 753 | 750 | 753 | 727 | 959 | 553 | 771 | 756 | 930 | 785 | 785 | 843 | 901 | 790 |
| 16 | 1249 | 1264 | 1206 | 1278 | 858 | 829 | 872 | 742 | 771 | 785 | 814 | 785 | 713 | 698 | 872 | 713 | 814 | 771 | 843 | 771 | 771 | 887 | 1249 | 1061 | 900 |
| 17 | 945 | 916 | 887 | 858 | 771 | 742 | 771 | 800 | 800 | 785 | 771 | 771 | 756 | 771 | 858 | 742 | 800 | 829 | 829 | 887 | 887 | 872 | 872 | 901 | 825 |
| 18 | 872 | 858 | 930 | 800 | 771 | 800 | 785 | 800 | 814 | 800 | 785 | 785 | 800 | 807 | 789 | 792 | 797 | 802 | 829 | 858 | 829 | 800 | 843 | 814 | 815 |
| 19 | 811 | 807 | 814 | 811 | 802 | 785 | 771 | 785 | 800 | 785 | 771 | 800 | 771 | 742 | 771 | 771 | 771 | 785 | 785 | 916 | 829 | 843 | 858 | 829 | 800 |
| 20 | 829 | 814 | 800 | 794 | 785 | 782 | 776 | 778 | 778 | 781 | 792 | 795 | 792 | 791 | 814 | 785 | 785 | 771 | 785 | 800 | 800 | 810 | 802 | 802 | 793 |
| 21 | 804 | 802 | 795 | 800 | 785 | 785 | 785 | 771 | 771 | 800 | 771 | 756 | 756 | 727 | 698 | 669 | 553 | 597 | 655 | 640 | 916 | 843 | 959 | 959 | 766 |
| 22 | 1235 | 1278 | 1090 | 1104 | 930 | 771 | 756 | 727 | 742 | 756 | 785 | 771 | 800 | 800 | 756 | 771 | 785 | 771 | 785 | 669 | 785 | 1104 | 829 | 800 | 858 |
| 23 | 959 | 872 | 1003 | 887 | 814 | 785 | 771 | 756 | 771 | 756 | 771 | 756 | 756 | 771 | 713 | 785 | 756 | 742 | 771 | 800 | 814 | 785 | 814 | 814 | 801 |
| 24 | 814 | 814 | 843 | 829 | 814 | 800 | 800 | 785 | 785 | 771 | 785 | 785 | 727 | 771 | 800 | 771 | 800 | 814 | 800 | 858 | 843 | 843 | 872 | 843 | 807 |
| 25 | 829 | 829 | 814 | 800 | 785 | 800 | 771 | 756 | 776 | 778 | 781 | 785 | 785 | 742 | 756 | 800 | 804 | 802 | 795 | 771 | 800 | 785 | 988 | 916 | 802 |
| 26 | 829 | 814 | 843 | 817 | 810 | 800 | 797 | 789 | 785 | 778 | 782 | 781 | 782 | 785 | 794 | 794 | 771 | 785 | 800 | 785 | 771 | 800 | 843 | 829 | 798 |
| 27 | 807 | 810 | 807 | 800 | 800 | 800 | 797 | 791 | 785 | 775 | 768 | 771 | 778 | 785 | 792 | 792 | 788 | 788 | 792 | 794 | 814 | 814 | 785 | 800 | 793 |
| 28 | 800 | 804 | 807 | 800 | 797 | 792 | 789 | 785 | 773 | 771 | 771 | 771 | 779 | 778 | 778 | 771 | 771 | 778 | 766 | 742 | 698 | 771 | 800 | 843 | 780 |
| 29 | 829 | 814 | 785 | 800 | 800 | 785 | 775 | 775 | 778 | 766 | 768 | 773 | 771 | 773 | 778 | 778 | 779 | 779 | 788 | 785 | 792 | 800 | 800 | 829 | 787 |
| 30 | 795 | 788 | 781 | 782 | 781 | 779 | 785 | 785 | 773 | 778 | 771 | 778 | 773 | 778 | 782 | 791 | 792 | 788 | 788 | 792 | 814 | 814 | 804 | 797 | 787 |
| 31 | 792 | 794 | 789 | 788 | 789 | 789 | 785 | 785 | 785 | 756 | 756 | 771 | 742 | 713 | 713 | 713 | 727 | 698 | 742 | 771 | 742 | 713 | 829 | 800 | 762 |
| Mean | 870 | 862 | 851 | 838 | 807 | 792 | 791 | 782 | 783 | 776 | 776 | 775 | 767 | 764 | 768 | 771 | 762 | 765 | 785 | 786 | 797 | 819 | 849 | 860 | 800 |

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

Hourly mean values

January 1987

| Day | 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 | -22 | -11 | -11 | -6 | 41 | 47 | 41 | 31 | 9 | 31 | 41 | 41 | 79 | 111 | 164 | 138 | 100 | 127 | 52 | -182 | -11 | -193 | -235 | 25 | 17 |
| 2 | 31 | 31 | 25 | 25 | 47 | 36 | 36 | 36 | 31 | 31 | 31 | 36 | 47 | 41 | 138 | 89 | 100 | 52 | 41 | 31 | 4 | -6 | 20 | 31 | 41 |
| 3 | 35 | 30 | 28 | 33 | 30 | 37 | 42 | 37 | 35 | 33 | 34 | 37 | 37 | 42 | 42 | 36 | 35 | 37 | 48 | 37 | 37 | 26 | 5 | -10 | 33 |
| 4 | 16 | 26 | 32 | 33 | 36 | 34 | 34 | 33 | 33 | 36 | 37 | 37 | 37 | 38 | 38 | 37 | 38 | 42 | 64 | 58 | 53 | 42 | 32 | 5 | 36 |
| 5 | 25 | 28 | 32 | 34 | 35 | 38 | 39 | 39 | 39 | 41 | 42 | 40 | 39 | 38 | 39 | 39 | 41 | 52 | 68 | 95 | 95 | 68 | 57 | 31 | 46 |
| 6 | 31 | 27 | 26 | 25 | 35 | 42 | 43 | 39 | 39 | 41 | 39 | 38 | 38 | 38 | 38 | 39 | 41 | 42 | 42 | 39 | 38 | 51 | 35 | 25 | 37 |
| 7 | 25 | 25 | 30 | 31 | 31 | 36 | 47 | 47 | 44 | 40 | 39 | 39 | 43 | 41 | 43 | 42 | 47 | 52 | 73 | 95 | 95 | 57 | -86 | -48 | 37 |
| 8 | -11 | 36 | 36 | 47 | 41 | 45 | 50 | 46 | 44 | 49 | 52 | 51 | 53 | 57 | 84 | 89 | 63 | 84 | 100 | 47 | -59 | -145 | -107 | -43 | 29 |
| 9 | -28 | 19 | 35 | 41 | 46 | 46 | 41 | 46 | 25 | 30 | 51 | 30 | 57 | 57 | 51 | 46 | 46 | 36 | 34 | 33 | 28 | 27 | 14 | -1 | 34 |
| 10 | 32 | 27 | 32 | 35 | 40 | 40 | 29 | 34 | 24 | 24 | 29 | 34 | 40 | 40 | 34 | 38 | 37 | 38 | 35 | 34 | 34 | 29 | 32 | 29 | 33 |
| 11 | 31 | 33 | 33 | 33 | 34 | 38 | 37 | 36 | 37 | 35 | 34 | 35 | 37 | 39 | 41 | 42 | 46 | 83 | 89 | 99 | 62 | 35 | 14 | -55 | 39 |
| 12 | -70 | 9 | 36 | 36 | 25 | 31 | 50 | 51 | 45 | 36 | 41 | 31 | 33 | 33 | 36 | 57 | 52 | 41 | 31 | 28 | 27 | 26 | -48 | -112 | 22 |
| 13 | -35 | 17 | 23 | 40 | 41 | 42 | 43 | 43 | 37 | 33 | 31 | 33 | 36 | 34 | 39 | 39 | 44 | 81 | 39 | 39 | 33 | 28 | -8 | 1 | 31 |
| 14 | 18 | 26 | 30 | 30 | 36 | 38 | 37 | 34 | 36 | 34 | 28 | 30 | 31 | 29 | 34 | 45 | 45 | 37 | 42 | 42 | 34 | 34 | 30 | 29 | 34 |
| 15 | 29 | 33 | 36 | 33 | 30 | 38 | 38 | 36 | 33 | 33 | 33 | 34 | 36 | 37 | 38 | 38 | 37 | 36 | 41 | 95 | 41 | 41 | -1 | -22 | 34 |
| 16 | -11 | -38 | -6 | 36 | 38 | 38 | 40 | 38 | 36 | 25 | 25 | 30 | 41 | 63 | 46 | 46 | 73 | 25 | 36 | 63 | 46 | 25 | 4 | -1 | 30 |
| 17 | -6 | -33 | -27 | -27 | 36 | 41 | 40 | 38 | 36 | 35 | 32 | 36 | 38 | 36 | 38 | 41 | 63 | 84 | 111 | 132 | 84 | 36 | -161 | -289 | 17 |
| 18 | -139 | -17 | 20 | 38 | 36 | 40 | 37 | 37 | 33 | 30 | 20 | 25 | 30 | 33 | 33 | 36 | 46 | 36 | 36 | 41 | 57 | -11 | -70 | -59 | 15 |
| 19 | -4 | 31 | 34 | 37 | 40 | 40 | 43 | 37 | 27 | 21 | 32 | 32 | 37 | 48 | 54 | 80 | 70 | 37 | 37 | 43 | 48 | 43 | 16 | -15 | 36 |
| 20 | 0 | 11 | 0 | 37 | 43 | 32 | 0 | 21 | 27 | 37 | 27 | 32 | 43 | 59 | 214 | 224 | 43 | -15 | -95 | -26 | -52 | -212 | -138 | -36 | 11 |
| 21 | 5 | 0 | 15 | 26 | 31 | 31 | 37 | 42 | 37 | 31 | 21 | 37 | 21 | 47 | 47 | 42 | 31 | 42 | 42 | 37 | 42 | -74 | -245 | -96 | 10 |
| 22 | -22 | -1 | 20 | 36 | 41 | 41 | 36 | 34 | 32 | 29 | 25 | 25 | 36 | 36 | 30 | 41 | 52 | 95 | -17 | 36 | 36 | -6 | 9 | -150 | 20 |
| 23 | -65 | 20 | 25 | 20 | 9 | 25 | 36 | 30 | 25 | 25 | 25 | 46 | 46 | 41 | 41 | 36 | 36 | 30 | 41 | 36 | 25 | -161 | -171 | -161 | 2 |
| 24 | -65 | -70 | 14 | 30 | 25 | 20 | 36 | 36 | 41 | 25 | 25 | 25 | 30 | 30 | 25 | 30 | 41 | 84 | 30 | 30 | 25 | 20 | -6 | -6 | 20 |
| 25 | 14 | 25 | 20 | 25 | 25 | 25 | 36 | 30 | 25 | 25 | 30 | 25 | 30 | 36 | 25 | 41 | 52 | 63 | 46 | 68 | 9 | -134 | -6 | 25 | 23 |
| 26 | 24 | -39 | -119 | -12 | 30 | 40 | 32 | 29 | 30 | 32 | 34 | 40 | 30 | 40 | 35 | 30 | 40 | 35 | 40 | 35 | 30 | 23 | 24 | 22 | 21 |
| 27 | 23 | 30 | 31 | 27 | 29 | 32 | 36 | 38 | 37 | 23 | 29 | 23 | 66 | 93 | 45 | 34 | 30 | 30 | 31 | 30 | 30 | 23 | 23 | 29 | 34 |
| 28 | 6 | -36 | 11 | 59 | 54 | 43 | 32 | 22 | 22 | 22 | 27 | 32 | 38 | 43 | 38 | 48 | 75 | 70 | 27 | 64 | 38 | -175 | -180 | -164 | 9 |
| 29 | -73 | -324 | -148 | -4 | 75 | 64 | 38 | 38 | 32 | 38 | 40 | 38 | 39 | 22 | 35 | 31 | 29 | 33 | 32 | 30 | 32 | 38 | 22 | 22 | 7 |
| 30 | 27 | -20 | 32 | 39 | 36 | 35 | 32 | 36 | 32 | 32 | 35 | 36 | 36 | 36 | 36 | 35 | 37 | 48 | 64 | 64 | 43 | 32 | 16 | 0 | 33 |
| 31 | 28 | -67 | -163 | -19 | 17 | 44 | 44 | 39 | 49 | 39 | 33 | 39 | 44 | 44 | 39 | 39 | 39 | 40 | 40 | 41 | 33 | -24 | 12 | -3 | 17 |
| Mean | -4 | -5 | 6 | 26 | 36 | 38 | 37 | 37 | 33 | 32 | 33 | 34 | 40 | 45 | 53 | 53 | 49 | 51 | 42 | 42 | 33 | -13 | -35 | -32 | 26 |

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

Hourly mean values

February 1987

| Day | 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 | -97 | -75 | 31 | 25 | 47 | 68 | 57 | 52 | 41 | 39 | 37 | 40 | 36 | 41 | 41 | 31 | 47 | 84 | 79 | 73 | 47 | 25 | -22 | -86 | 27 |
| 2 | -22 | 9 | 31 | 35 | 35 | 33 | 33 | 36 | 37 | 38 | 37 | 34 | 34 | 32 | 36 | 36 | 41 | 41 | 52 | 57 | 52 | 36 | 25 | 20 | 33 |
| 3 | -42 | -5 | 26 | 31 | 41 | 38 | 39 | 34 | 30 | 29 | 26 | 26 | 26 | 31 | 31 | 33 | 33 | 34 | 37 | 58 | 47 | 38 | 36 | 31 | 29 |
| 4 | 30 | 29 | 29 | 31 | 33 | 33 | 34 | 34 | 35 | 35 | 35 | 33 | 37 | 37 | 39 | 53 | 112 | 96 | 74 | 42 | 35 | 35 | 34 | 26 | 42 |
| 5 | 21 | 31 | 34 | 34 | 34 | 34 | 38 | 35 | 35 | 31 | 29 | 30 | 33 | 33 | 34 | 36 | 35 | 37 | 38 | 38 | 53 | 42 | 26 | 0 | 33 |
| 6 | -81 | -151 | -60 | 19 | 46 | 43 | 40 | 38 | 35 | 34 | 38 | 36 | 34 | 40 | 35 | 35 | 46 | 39 | 39 | 40 | 35 | 24 | -71 | -167 | 7 |
| 7 | -78 | 23 | 34 | 36 | 36 | 38 | 36 | 32 | 23 | 30 | 31 | 32 | 39 | 44 | 49 | 65 | 119 | 65 | 60 | 39 | 1 | -30 | -83 | -217 | 18 |
| 8 | -30 | 33 | 17 | 17 | 23 | 23 | 33 | 17 | 49 | 39 | 33 | 28 | 23 | 28 | 71 | 124 | 156 | 162 | 172 | -126 | -83 | 44 | 55 | -19 | 37 |
| 9 | -136 | -56 | 12 | 23 | 28 | 44 | 39 | 33 | 28 | 28 | 28 | 39 | 44 | 44 | 39 | 76 | 60 | 28 | 28 | 23 | 17 | -62 | -254 | -206 | -1 |
| 10 | 7 | 7 | -19 | -3 | 44 | 44 | 38 | 33 | 32 | 33 | 23 | 23 | 33 | 33 | 49 | 44 | 44 | 49 | 44 | 33 | 28 | 28 | 12 | 23 | 28 |
| 11 | -4 | -20 | 22 | 29 | 30 | 34 | 31 | 31 | 29 | 29 | 29 | 30 | 28 | 31 | 31 | 31 | 38 | 59 | 97 | -111 | 38 | 54 | 11 | 6 | 24 |
| 12 | -268 | -124 | -17 | 51 | 46 | 30 | 24 | 35 | 40 | 35 | 35 | 72 | 185 | 275 | 275 | 291 | 158 | 142 | 67 | 35 | -17 | -44 | -60 | -92 | 49 |
| 13 | -14 | -62 | -83 | 6 | 49 | 44 | 44 | 28 | 33 | 34 | 36 | 34 | 35 | 33 | 38 | 37 | 40 | 38 | 42 | 55 | 38 | 49 | 38 | 38 | 26 |
| 14 | 31 | 29 | 33 | 30 | 29 | 30 | 39 | 38 | 38 | 37 | 34 | 31 | 31 | 37 | 37 | 31 | 42 | 53 | 47 | 36 | 33 | 31 | 33 | 34 | 35 |
| 15 | 32 | 32 | 31 | 29 | 35 | 34 | 38 | 35 | 34 | 35 | 35 | 40 | 46 | 56 | 46 | 35 | 46 | 67 | 83 | 51 | 8 | -55 | -39 | 14 | 32 |
| 16 | 10 | 10 | 15 | 26 | 36 | 39 | 37 | 31 | 21 | 21 | 31 | 53 | 80 | 42 | 101 | 176 | 165 | 154 | 96 | -26 | -106 | -16 | -10 | 0 | 41 |
| 17 | 10 | 15 | 31 | 33 | 30 | 26 | 31 | 26 | 26 | 26 | 31 | 31 | 37 | 37 | 47 | 90 | 53 | 64 | 31 | 53 | 42 | -5 | -240 | -101 | 18 |
| 18 | -119 | -23 | 24 | 30 | 35 | 31 | 35 | 33 | 35 | 24 | 30 | 30 | 35 | 30 | 40 | 30 | 30 | 35 | 35 | 24 | 35 | -33 | -103 | -108 | 9 |
| 19 | 4 | 31 | 31 | 28 | 32 | 32 | 32 | 25 | 31 | 28 | 28 | 25 | 31 | 25 | 31 | 36 | 37 | 36 | 35 | 35 | 33 | 36 | 41 | 47 | 31 |
| 20 | 41 | 36 | 36 | 25 | 4 | 0 | 25 | 41 | 25 | 20 | 137 | 63 | 143 | 95 | 159 | 239 | 137 | 79 | 0 | -161 | -134 | -75 | -230 | -267 | 18 |
| 21 | -230 | -171 | -38 | -6 | 52 | 41 | 15 | -11 | 31 | 25 | 31 | 20 | 25 | 31 | 47 | 95 | 52 | 41 | 25 | 20 | -97 | -129 | -134 | -70 | -13 |
| 22 | -65 | 0 | 31 | 25 | -38 | -38 | 15 | 41 | 31 | 47 | 73 | 79 | 57 | 31 | 36 | 41 | 36 | 47 | 41 | 36 | 25 | -177 | -577 | -417 | -25 |
| 23 | -365 | -162 | -88 | -2 | 24 | 50 | 45 | 34 | 34 | 24 | 40 | 29 | 45 | 88 | 98 | 45 | 114 | 56 | -29 | -50 | 29 | -13 | -34 | -98 | -3 |
| 24 | -81 | -1 | 35 | 30 | 30 | 30 | 30 | 24 | 24 | 24 | 19 | 35 | 40 | 46 | 46 | 46 | 46 | 72 | 19 | -194 | -242 | -348 | -135 | -1 | -16 |
| 25 | -124 | 3 | 40 | 40 | 35 | 30 | 30 | 30 | 24 | 24 | 30 | 35 | 30 | 30 | 40 | 30 | 35 | 35 | 67 | 51 | -12 | -17 | 3 | 19 | 21 |
| 26 | 13 | 13 | 26 | 28 | 31 | 31 | 27 | 25 | 26 | 24 | 29 | 18 | 24 | 24 | 34 | 34 | 29 | 34 | 40 | 45 | 50 | 29 | 13 | 24 | 28 |
| 27 | 17 | 12 | 31 | 31 | 35 | 32 | 34 | 33 | 17 | 12 | 23 | 33 | 33 | 33 | 49 | 113 | 183 | 130 | 44 | -88 | -136 | -67 | -3 | -259 | 14 |
| 28 | -29 | -7 | 29 | 34 | 24 | 18 | 18 | 24 | 29 | 61 | 50 | 50 | 45 | 45 | 29 | 34 | 40 | 45 | 40 | -50 | -45 | -82 | -141 | -365 | -4 |
| Mean | -56 | -19 | 11 | 26 | 31 | 32 | 34 | 31 | 31 | 31 | 37 | 37 | 46 | 48 | 58 | 70 | 70 | 65 | 50 | 1 | -7 | -24 | -64 | -78 | 19 |

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

Hourly mean values

March 1987

| Day | 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 | -37 | 16 | 32 | 26 | 32 | 37 | 34 | 29 | 25 | 25 | 26 | 32 | 26 | 32 | 37 | 37 | 48 | 69 | -10 | 21 | -106 | -53 | 26 | 32 | 18 |
| 2 | 27 | 29 | 29 | 29 | 31 | 32 | 30 | 30 | 35 | 30 | 25 | 19 | 25 | 35 | 30 | 35 | 35 | 40 | 38 | 39 | 30 | 19 | 14 | 30 | 30 |
| 3 | 35 | 30 | 25 | 25 | 25 | 35 | 35 | 25 | 19 | 14 | 19 | 25 | 30 | 46 | 41 | 51 | 78 | 94 | 89 | -113 | -161 | -81 | -65 | -108 | 9 |
| 4 | -151 | -70 | 9 | 9 | 25 | 41 | 46 | 35 | 30 | 25 | 9 | 14 | 35 | 51 | 73 | 57 | 57 | 78 | 62 | 51 | 35 | -183 | -86 | -54 | 8 |
| 5 | 3 | 35 | 35 | 3 | -108 | -38 | 30 | 35 | 25 | 19 | 30 | 46 | 99 | 153 | 222 | 126 | 137 | 153 | 62 | -113 | -145 | -54 | -231 | -204 | 13 |
| 6 | -31 | -69 | -47 | 10 | 32 | 26 | 32 | 26 | 26 | 26 | 26 | 32 | 21 | 34 | 33 | 32 | 33 | 35 | 48 | -10 | 91 | -42 | -346 | -309 | -11 |
| 7 | -265 | -265 | -163 | 17 | 28 | -8 | -3 | 49 | 60 | 12 | 39 | 76 | 119 | 135 | 60 | 28 | 33 | 23 | 39 | 49 | 1 | -83 | -19 | -24 | -2 |
| 8 | 28 | -14 | -40 | 23 | 28 | 28 | 28 | 28 | 23 | 23 | 23 | 28 | 28 | 39 | 92 | 119 | 119 | 55 | 44 | 33 | 33 | -14 | -78 | 33 | 29 |
| 9 | 28 | -67 | -174 | -56 | -8 | 33 | 33 | 23 | 23 | 17 | 23 | 23 | 33 | 28 | 28 | 33 | 39 | 39 | 44 | 44 | 44 | 33 | 28 | 17 | 13 |
| 10 | 1 | 17 | 7 | 23 | 33 | 33 | 28 | 28 | 23 | 23 | 23 | 28 | 55 | 162 | 188 | 103 | 60 | 28 | 20 | 21 | 20 | 21 | 24 | 24 | 41 |
| 11 | 25 | 24 | 27 | 27 | 33 | 28 | 28 | 28 | 17 | 12 | 12 | 28 | 23 | 23 | 60 | 60 | 49 | 76 | 23 | 66 | 44 | 39 | 12 | 17 | 33 |
| 12 | 17 | -56 | -51 | -3 | 23 | 28 | 28 | 12 | -3 | 7 | 17 | 17 | 23 | 33 | 28 | 33 | 33 | 39 | 66 | 55 | -19 | -35 | -275 | -494 | -19 |
| 13 | -83 | 39 | 39 | 44 | 33 | 28 | 28 | 23 | 17 | 23 | 17 | 33 | 39 | 28 | 44 | 44 | 35 | 32 | 33 | 29 | 29 | 7 | -179 | -136 | 10 |
| 14 | -51 | 23 | 28 | 33 | 28 | 17 | 17 | 28 | 23 | 17 | 23 | 17 | 33 | 33 | 23 | 44 | 55 | 49 | 55 | 28 | -88 | -120 | -24 | 7 | 12 |
| 15 | -72 | 12 | 39 | 17 | -14 | 28 | 33 | 28 | 23 | 12 | 17 | 1 | 28 | 39 | 39 | 33 | 44 | 66 | 87 | 44 | 12 | 17 | 7 | -51 | 20 |
| 16 | -190 | -190 | -8 | 33 | 39 | 33 | 28 | 12 | 7 | 17 | 23 | 44 | 98 | 119 | 44 | 33 | 33 | 33 | 39 | 44 | -115 | -249 | -222 | -62 | -14 |
| 17 | -51 | -195 | -126 | -72 | -35 | 44 | 49 | 33 | 23 | 17 | 23 | 23 | 44 | 55 | 44 | 44 | 44 | 55 | 49 | 44 | 33 | -14 | 1 | 28 | 7 |
| 18 | 17 | 38 | 27 | 38 | 33 | 33 | 27 | 22 | 11 | 6 | 11 | 22 | 43 | 27 | 43 | 49 | 91 | 113 | 81 | 33 | -14 | -89 | -602 | -399 | -13 |
| 19 | -191 | 1 | 22 | 38 | 54 | 38 | 33 | 27 | 38 | 11 | 22 | 38 | 38 | 43 | 49 | 38 | 49 | 54 | 49 | 43 | -95 | -217 | -164 | -9 | 0 |
| 20 | 26 | 26 | 33 | 30 | 30 | 31 | 26 | 21 | 16 | 15 | 11 | 13 | 21 | 26 | 37 | 42 | 42 | 40 | 44 | 45 | 21 | -53 | -5 | 21 | 23 |
| 21 | 39 | 39 | 33 | 28 | 33 | 33 | 28 | 23 | 23 | 23 | 23 | 28 | 71 | 162 | 242 | 188 | 199 | 188 | 1 | -184 | -377 | -350 | -51 | -110 | 14 |
| 22 | -468 | -168 | 7 | 39 | 37 | 37 | 36 | 28 | 17 | 12 | 28 | 33 | 28 | 23 | 39 | 39 | 60 | 92 | 87 | 39 | -281 | -217 | -67 | 33 | -19 |
| 23 | 11 | 27 | 43 | 42 | 41 | 40 | 36 | 27 | 22 | 11 | 17 | 33 | 27 | 22 | 38 | 33 | 33 | 38 | 38 | 43 | 34 | 33 | 34 | 31 | 31 |
| 24 | 30 | 29 | 30 | 31 | 34 | 33 | 32 | 30 | 22 | 7 | 6 | 9 | 17 | 22 | 27 | 27 | 33 | 33 | 38 | 38 | 43 | 33 | 22 | 33 | 27 |
| 25 | 29 | 30 | 29 | 29 | 29 | 29 | 27 | 22 | 17 | 13 | 9 | 10 | 17 | 33 | 22 | 43 | 145 | 145 | 81 | 43 | 38 | -14 | -95 | -46 | 28 |
| 26 | -165 | -111 | -15 | 37 | 48 | 32 | 37 | 26 | -10 | 5 | 37 | 16 | 26 | 74 | 64 | 123 | 123 | 80 | 37 | 91 | 42 | 21 | 16 | 0 | 26 |
| 27 | -15 | -26 | -79 | -159 | -85 | -31 | 32 | 32 | 26 | 37 | 48 | 85 | 144 | 123 | 256 | 144 | 133 | 58 | -95 | -63 | -37 | -170 | -133 | -37 | 7 |
| 28 | -53 | -79 | -165 | -15 | 26 | 32 | 21 | 16 | 10 | 21 | 26 | 42 | 48 | 53 | 48 | 53 | 48 | 48 | 48 | 53 | 16 | 21 | 26 | 26 | 15 |
| 29 | 29 | 29 | 30 | 30 | 30 | 22 | 17 | 17 | 11 | 6 | 6 | 11 | 27 | 22 | 22 | 38 | 33 | 33 | 38 | 38 | 33 | -4 | 22 | 27 | 24 |
| 30 | 28 | 28 | 27 | 25 | 27 | 25 | 25 | 20 | 12 | 7 | 12 | 23 | 23 | 33 | 60 | 82 | 124 | 119 | 60 | 28 | 23 | 17 | 33 | 28 | 37 |
| 31 | 32 | 27 | 26 | 24 | 34 | 29 | 29 | 24 | 13 | 8 | 13 | 18 | 24 | 29 | 24 | 33 | 35 | 40 | 38 | 41 | 37 | 29 | 29 | 40 | 28 |
| Mean | -45 | -26 | -9 | 13 | 19 | 26 | 29 | 26 | 20 | 16 | 21 | 28 | 42 | 56 | 66 | 60 | 67 | 66 | 43 | 20 | -24 | -56 | -75 | -52 | 14 |

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

Hourly mean values

April 1987

| Day | 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 | 40 | -1 | -92 | -92 | -119 | -12 | 14 | 8 | -1 | 3 | 14 | 35 | 40 | 67 | 35 | 46 | 73 | 99 | 73 | 57 | -49 | 8 | 38 | 35 | 13 |
| 2 | 32 | 30 | 27 | 8 | 19 | 30 | 30 | 24 | 8 | 3 | 8 | 24 | 35 | 24 | 46 | 40 | 35 | 67 | 62 | 46 | 35 | 32 | 35 | 35 | 31 |
| 3 | 35 | 32 | 30 | 30 | 30 | 27 | 24 | 22 | 14 | 11 | 8 | 14 | 19 | 22 | 24 | 27 | 30 | 35 | 40 | 38 | 37 | 35 | 32 | 30 | 27 |
| 4 | 30 | 30 | 30 | 40 | 40 | 35 | 30 | 30 | 24 | 35 | 8 | 67 | 169 | 227 | 307 | 217 | 105 | 57 | 30 | 30 | 30 | 24 | 24 | 30 | 69 |
| 5 | 30 | 14 | -28 | -17 | 8 | 8 | 14 | 14 | 14 | 8 | 8 | 14 | 30 | 78 | 147 | 78 | 62 | 62 | 40 | 51 | -49 | -252 | -49 | -39 | 10 |
| 6 | 14 | 30 | 24 | 8 | 19 | 30 | 24 | 19 | 3 | -1 | 3 | 8 | 19 | 46 | 73 | 105 | 121 | 137 | 147 | 89 | 51 | 24 | 35 | 30 | 44 |
| 7 | 24 | 19 | 24 | 30 | 30 | 27 | 24 | 22 | 16 | 14 | 19 | 35 | 3 | 19 | 30 | 67 | 57 | 46 | 46 | 46 | 57 | 30 | 51 | -135 | 25 |
| 8 | -71 | -7 | -29 | -13 | 29 | 8 | -18 | -29 | 2 | 13 | -13 | 8 | 2 | 18 | 45 | 45 | 66 | 56 | 61 | -50 | -258 | -258 | -93 | 2 | -20 |
| 9 | 28 | 25 | 23 | 25 | 28 | 25 | 17 | 12 | 9 | 7 | 1 | 28 | 55 | 60 | 60 | 71 | 98 | 114 | 98 | -88 | -3 | 17 | -8 | -30 | 28 |
| 10 | 13 | -29 | -146 | -77 | 40 | 24 | 18 | 10 | 8 | 8 | 8 | 9 | 10 | 21 | 26 | 29 | 32 | 34 | 37 | 37 | 34 | 29 | 32 | 34 | 10 |
| 11 | 33 | 31 | 28 | 25 | 23 | 23 | 20 | 7 | 7 | 7 | 7 | 39 | 49 | 82 | 119 | 103 | 82 | 49 | 28 | 28 | 28 | 23 | -8 | -78 | 31 |
| 12 | 30 | 35 | 30 | 24 | 19 | 24 | 30 | 24 | 14 | 8 | 8 | 24 | 24 | 19 | 19 | 30 | 35 | 35 | 46 | 57 | 51 | 40 | 40 | 35 | 29 |
| 13 | 31 | 31 | 15 | 20 | 25 | 31 | 31 | 25 | 20 | 9 | -6 | 9 | 20 | 25 | 31 | 79 | 159 | 153 | 84 | -54 | -91 | -64 | -193 | 31 | 17 |
| 14 | 30 | 27 | 30 | 32 | 32 | 30 | 24 | 19 | 8 | -1 | 3 | 19 | 46 | 57 | 46 | 73 | 57 | 57 | 67 | 57 | 46 | 24 | 8 | 24 | 34 |
| 15 | 14 | -103 | -44 | 32 | 38 | 35 | 30 | 19 | 11 | 0 | 3 | 11 | 16 | 19 | 35 | 46 | 51 | 46 | 51 | 62 | 35 | 32 | 30 | 30 | 21 |
| 16 | 32 | 35 | 32 | 32 | 35 | 35 | 30 | 24 | 14 | 8 | 3 | 14 | 8 | 19 | 27 | 30 | 35 | 38 | 40 | 40 | 38 | 35 | 32 | -7 | 26 |
| 17 | -50 | -34 | 24 | 34 | 32 | 29 | 21 | 13 | 8 | 2 | 5 | 8 | 16 | 34 | 50 | 50 | 61 | 72 | 50 | 34 | 34 | 34 | 29 | 18 | 24 |
| 18 | 24 | 26 | 24 | 24 | 21 | 18 | 18 | 16 | 10 | 8 | 8 | 10 | 13 | 18 | 24 | 32 | 34 | 40 | 42 | 45 | 45 | 34 | 40 | 40 | 26 |
| 19 | 40 | 34 | 13 | 2 | 24 | 24 | 8 | -7 | 2 | -29 | -2 | -23 | -18 | 18 | 24 | 24 | 24 | 29 | 50 | 61 | 40 | -23 | 29 | 45 | 16 |
| 20 | 45 | 29 | 13 | 13 | -29 | -29 | -23 | -7 | -23 | 13 | 66 | 29 | -2 | 18 | 61 | 66 | 40 | 45 | 45 | 34 | 29 | 29 | 34 | 29 | 22 |
| 21 | 28 | 28 | 28 | 23 | 12 | 7 | 7 | 1 | 7 | 7 | 7 | 4 | 9 | 17 | 23 | 28 | 33 | 36 | 39 | 33 | 31 | 28 | 28 | 31 | 21 |
| 22 | 33 | 33 | 31 | 28 | 25 | 23 | 17 | 33 | 7 | 4 | 1 | 17 | 1 | 17 | 33 | 44 | 60 | 71 | 66 | 39 | 33 | -30 | -40 | 17 | 24 |
| 23 | 34 | 34 | 32 | 32 | 29 | 26 | 18 | 13 | 10 | 8 | 13 | 18 | 21 | 26 | 29 | 32 | 34 | 40 | 42 | 42 | 40 | 42 | 45 | 45 | 29 |
| 24 | 29 | -34 | -45 | -50 | 13 | 8 | 24 | 24 | 13 | 13 | 8 | 77 | 200 | 269 | 120 | 24 | 24 | 24 | 45 | 13 | -146 | -104 | 18 | 45 | 25 |
| 25 | 38 | 30 | 27 | 24 | 22 | 16 | 8 | 6 | 6 | 8 | 14 | 19 | 24 | 30 | 32 | 62 | 40 | 51 | 57 | 57 | -12 | -49 | -23 | 8 | 21 |
| 26 | 38 | 35 | 32 | 30 | 27 | 24 | 19 | 11 | 6 | 3 | 6 | 14 | 24 | 35 | 40 | 57 | 46 | 46 | 51 | 46 | 35 | 40 | 40 | 24 | 30 |
| 27 | 40 | 40 | 43 | 40 | 30 | 27 | 24 | 3 | -7 | -12 | 3 | 78 | 62 | 57 | 62 | 110 | 174 | 78 | 46 | 73 | -65 | -28 | -55 | -23 | 33 |
| 28 | 14 | 8 | 35 | 30 | 24 | 19 | 14 | 8 | 6 | 8 | 8 | 19 | 22 | 24 | 27 | 30 | 32 | 35 | 38 | 40 | 40 | 38 | -7 | -1 | 21 |
| 29 | 3 | 19 | 35 | 30 | 24 | 22 | 19 | 16 | 11 | 8 | 16 | 14 | 19 | 24 | 30 | 46 | 51 | 57 | 78 | -12 | -55 | 8 | 30 | 30 | 22 |
| 30 | 40 | 38 | 35 | 32 | 30 | 24 | 19 | 11 | 8 | 6 | 8 | 19 | 24 | 30 | 32 | 46 | 51 | 51 | 62 | 57 | 51 | 46 | 35 | 19 | 32 |
| Mean | 23 | 16 | 9 | 13 | 19 | 21 | 18 | 13 | 8 | 6 | 8 | 22 | 32 | 47 | 55 | 58 | 60 | 59 | 55 | 33 | 3 | -4 | 7 | 12 | 25 |

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

Hourly mean values

May 1987

| Day | 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 | 43 | 43 | 40 | 38 | 35 | 30 | 24 | 16 | 8 | 14 | -1 | 8 | 24 | 24 | 30 | 40 | 51 | 51 | 51 | 57 | 51 | -23 | 8 | -92 | 24 |
| 2 | 3 | 30 | 40 | 38 | 30 | 24 | 16 | -1 | -7 | 3 | 24 | 24 | 24 | 24 | 24 | 35 | 40 | 57 | 67 | 67 | 46 | 30 | -33 | -1 | 25 |
| 3 | 19 | 35 | 35 | 30 | 24 | 22 | 19 | 16 | 3 | -1 | 46 | 73 | 67 | 40 | 30 | 30 | 46 | 62 | 51 | 57 | 46 | 30 | 24 | 30 | 35 |
| 4 | 28 | 28 | 28 | 33 | 28 | 17 | -3 | 1 | -3 | 12 | 7 | 7 | 28 | 66 | 82 | 82 | 71 | 60 | 44 | 28 | 28 | 1 | 7 | 17 | 29 |
| 5 | 32 | 29 | 26 | 24 | 21 | 18 | 13 | 10 | 8 | 8 | 18 | 24 | 40 | 50 | 29 | 24 | 40 | 56 | 72 | 29 | -2 | 34 | 32 | 29 | 28 |
| 6 | 30 | 30 | 30 | 30 | 27 | 24 | 19 | 8 | 3 | 0 | 3 | 19 | 35 | 30 | 40 | 51 | 83 | 110 | 115 | 89 | 67 | -12 | -65 | -76 | 29 |
| 7 | -182 | -198 | -139 | -80 | -123 | -11 | 20 | 15 | 15 | -6 | 0 | 4 | 36 | 47 | 63 | 57 | 47 | 36 | 36 | 41 | 25 | -38 | -86 | -27 | -18 |
| 8 | -11 | 0 | 25 | 25 | 36 | 31 | 31 | 20 | 9 | 9 | 15 | 15 | 25 | 41 | 52 | 63 | 73 | 73 | 52 | 41 | 41 | 31 | 15 | 15 | 30 |
| 9 | 29 | 29 | 32 | 34 | 32 | 34 | 34 | 32 | 26 | 24 | 18 | 18 | 16 | 24 | 32 | 37 | 48 | 58 | 58 | 58 | 48 | 21 | 5 | 5 | 31 |
| 10 | 21 | 37 | 37 | 42 | 42 | 37 | 32 | 32 | 21 | 21 | 53 | 26 | 58 | 170 | 138 | 69 | 80 | 85 | 101 | 48 | 37 | 32 | 26 | 32 | 53 |
| 11 | 30 | 24 | 30 | 30 | 27 | 19 | 14 | 6 | 0 | -1 | 0 | 8 | 19 | 24 | 32 | 40 | 51 | 57 | 78 | 57 | 14 | -193 | 3 | 46 | 17 |
| 12 | 35 | 24 | 30 | 27 | 24 | 19 | 8 | 3 | -1 | -1 | 0 | 14 | 24 | 27 | 32 | 40 | 51 | 57 | 62 | 57 | 35 | -49 | 8 | 40 | 24 |
| 13 | 40 | 38 | 35 | 35 | 30 | 24 | 19 | 8 | -7 | -7 | 3 | 16 | 27 | 32 | 35 | 67 | 99 | 121 | 158 | 67 | 40 | 19 | -119 | -145 | 26 |
| 14 | -156 | -193 | -7 | 51 | 35 | 19 | 8 | 8 | 8 | 8 | 24 | 19 | 83 | 163 | 158 | 147 | 78 | 40 | 51 | 51 | 35 | -12 | -108 | -23 | 20 |
| 15 | 46 | 46 | 40 | 30 | 30 | 24 | 19 | 14 | -1 | -12 | 3 | 14 | 35 | 51 | 62 | 57 | 40 | 51 | 46 | 35 | 40 | 30 | 24 | 19 | 31 |
| 16 | 30 | 30 | 19 | 24 | 30 | 24 | 19 | 8 | 3 | -1 | 3 | 8 | 30 | 30 | 57 | 73 | 83 | 62 | 51 | 46 | 40 | 35 | 32 | 35 | 32 |
| 17 | 35 | 30 | 35 | 40 | 32 | 32 | 19 | 14 | 3 | -1 | 3 | 8 | 19 | 30 | 35 | 51 | 57 | 62 | 67 | 62 | 51 | 24 | -1 | 14 | 30 |
| 18 | 37 | 35 | 35 | 38 | 35 | 30 | 24 | 16 | 6 | 3 | 6 | 11 | 19 | 27 | 35 | 40 | 46 | 49 | 49 | 49 | 46 | 38 | 35 | 30 | 31 |
| 19 | 31 | 31 | 31 | 31 | 31 | 25 | 17 | 9 | 9 | 9 | 9 | 9 | 15 | 20 | 31 | 41 | 47 | 49 | 52 | 52 | 49 | 47 | 36 | -16 | 28 |
| 20 | -28 | -1 | 32 | 35 | 38 | 30 | 19 | 14 | 6 | 6 | 8 | 16 | 24 | 30 | 46 | 67 | 67 | 57 | 51 | 51 | 35 | -12 | -28 | -28 | 22 |
| 21 | 14 | 30 | 19 | 32 | 32 | 30 | 24 | 19 | 8 | 6 | 8 | 14 | 19 | 27 | 35 | 51 | 51 | 62 | 57 | 51 | 49 | 46 | 43 | 40 | 32 |
| 22 | 40 | 38 | 35 | 32 | 30 | 27 | 24 | 19 | 11 | 8 | 30 | 30 | 19 | 30 | 51 | 89 | 131 | 147 | 131 | 94 | 62 | -28 | -204 | -145 | 29 |
| 23 | -108 | 19 | 46 | 46 | 35 | 24 | 14 | 8 | 8 | 8 | 14 | 8 | 24 | 24 | 40 | 94 | 115 | 83 | 110 | 83 | 30 | -92 | -49 | -33 | 23 |
| 24 | -124 | -103 | 24 | -12 | -33 | 24 | 24 | 24 | 19 | 57 | 94 | 73 | 40 | 57 | 121 | 259 | 206 | 201 | 78 | 3 | -39 | -103 | -103 | -242 | 22 |
| 25 | -204 | -284 | -332 | -386 | -306 | -193 | -81 | -7 | 14 | 46 | 19 | 24 | 19 | 24 | 35 | 35 | 46 | 46 | 35 | 46 | 40 | 35 | 40 | 46 | -51 |
| 26 | 40 | 40 | 40 | 35 | 30 | 24 | -1 | 19 | 8 | 8 | 24 | 67 | 110 | 206 | 254 | 211 | 185 | 153 | 94 | 57 | -295 | -172 | -204 | -209 | 30 |
| 27 | -316 | -290 | -236 | -167 | -156 | -226 | -204 | -87 | -33 | 24 | 78 | 137 | 174 | 195 | 131 | 40 | 19 | 19 | 19 | 40 | -1 | -39 | 8 | 3 | -35 |
| 28 | 105 | 57 | 40 | 30 | 19 | 8 | 51 | -1 | -1 | 8 | 8 | 14 | 24 | 35 | 30 | 35 | 35 | 30 | 30 | 78 | 78 | 35 | -252 | -348 | 6 |
| 29 | -193 | -257 | -273 | -465 | -171 | 25 | 47 | -6 | 52 | 52 | 100 | 148 | 250 | 308 | 276 | 137 | 100 | 84 | 47 | -27 | -11 | 9 | 20 | 25 | 11 |
| 30 | 31 | 31 | 29 | 26 | 15 | 10 | 7 | 5 | 0 | 21 | -5 | 26 | 106 | 224 | 143 | 74 | 47 | 63 | 85 | 10 | -26 | -26 | -42 | -26 | 34 |
| 31 | 5 | 21 | 15 | 26 | 10 | 5 | 0 | 10 | 21 | 31 | 42 | 90 | 127 | 154 | 159 | 218 | 224 | 186 | 101 | -85 | -96 | -59 | -112 | -128 | 40 |
| Mean | -19 | -18 | -4 | -7 | 0 | 7 | 9 | 8 | 7 | 11 | 21 | 31 | 50 | 72 | 75 | 76 | 76 | 75 | 68 | 45 | 18 | -11 | -33 | -35 | 21 |

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

Hourly mean values

June 1987

| Day | 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 | -121 | -121 | -41 | 33 | 43 | 27 | 22 | 11 | 6 | 11 | 38 | 38 | 54 | 49 | 91 | 65 | 81 | 129 | 118 | 81 | 91 | 75 | 38 | 59 | 37 |
| 2 | -250 | -149 | -4 | 11 | 21 | 16 | 16 | 11 | 0 | 11 | 43 | 21 | 21 | 24 | 32 | 37 | 40 | 43 | 43 | 43 | 43 | 5 | 0 | 16 | 4 |
| 3 | 30 | 30 | 31 | 31 | 30 | 25 | 20 | 20 | 20 | 20 | 14 | 14 | 14 | 25 | 30 | 46 | 52 | 62 | 73 | 46 | 41 | 20 | -1 | 20 | 30 |
| 4 | 31 | 31 | 31 | 28 | 23 | 20 | 15 | 4 | 4 | 4 | 20 | 15 | 31 | 63 | 63 | 52 | 79 | 106 | 106 | 52 | 20 | 26 | 15 | 4 | 35 |
| 5 | -69 | 5 | 32 | 21 | 16 | 32 | 27 | 16 | 5 | 5 | 16 | 32 | 32 | 80 | 123 | 149 | 181 | 133 | 69 | 59 | 37 | 5 | -4 | -90 | 38 |
| 6 | 41 | 46 | 46 | 30 | 30 | 20 | -1 | -1 | -6 | -6 | -108 | 244 | 356 | 340 | 238 | 217 | 196 | 132 | -1 | -44 | -108 | -177 | -156 | -81 | 52 |
| 7 | 1 | -105 | 25 | 30 | 27 | 27 | 27 | 27 | 25 | 25 | 27 | 38 | 43 | 70 | 91 | 108 | 124 | 150 | 129 | 108 | 49 | 22 | 17 | -132 | 40 |
| 8 | -56 | 34 | 34 | 28 | 18 | 12 | 7 | 12 | 28 | 12 | 12 | 23 | 34 | 34 | 39 | 55 | 44 | 34 | 39 | 39 | 34 | 12 | 18 | 7 | 23 |
| 9 | 13 | 24 | 29 | 19 | 13 | 13 | 13 | 13 | 8 | 8 | 13 | 13 | 24 | 35 | 29 | 35 | 40 | 51 | 61 | 56 | 51 | 29 | -2 | -34 | 23 |
| 10 | -126 | -94 | 1 | 30 | 33 | 28 | 25 | 20 | 17 | 12 | 28 | 6 | 17 | 22 | 44 | 38 | 60 | 60 | 60 | 60 | 54 | 44 | 38 | 38 | 21 |
| 11 | 36 | 44 | 42 | 36 | 31 | 26 | 26 | 20 | 10 | 0 | 36 | 31 | 26 | 52 | 79 | 79 | 90 | 84 | 122 | 95 | 26 | -5 | 26 | 36 | 44 |
| 12 | 19 | 25 | 9 | 9 | 14 | 25 | 30 | 19 | 3 | -6 | 19 | 41 | 9 | 99 | 99 | 67 | 89 | 99 | 115 | 25 | -124 | -145 | -33 | -6 | 21 |
| 13 | -43 | -27 | 4 | 15 | 15 | 26 | 15 | 15 | 0 | 0 | 0 | 26 | 31 | 79 | 95 | 90 | 95 | 74 | 63 | 58 | 31 | -5 | -16 | -11 | 26 |
| 14 | 16 | -5 | 10 | 32 | 32 | 21 | 10 | 0 | 10 | 10 | 32 | 26 | 16 | 16 | 25 | 31 | 37 | 40 | 42 | 45 | 42 | 32 | -90 | -117 | 13 |
| 15 | 5 | 42 | 40 | 37 | 32 | 26 | 21 | 16 | 5 | -2 | 0 | 5 | 10 | 21 | -5 | 42 | 80 | 123 | 90 | 69 | 53 | 37 | 0 | -31 | 30 |
| 16 | 12 | -8 | 17 | 39 | 33 | 23 | 12 | 7 | 7 | 12 | 12 | 7 | 17 | 33 | 39 | 33 | 71 | 103 | 124 | 39 | -158 | -136 | -99 | -62 | 7 |
| 17 | -13 | -125 | -34 | 37 | 37 | 34 | 26 | 18 | 10 | 5 | 5 | 8 | 29 | 45 | 61 | 61 | 45 | 45 | 45 | 40 | 34 | 18 | -66 | -82 | 12 |
| 18 | -134 | -17 | 30 | 41 | 25 | 20 | 14 | 20 | 20 | 9 | 14 | 14 | 30 | 46 | 41 | 62 | 89 | 73 | 46 | 41 | 52 | 41 | 41 | -22 | 25 |
| 19 | -343 | -225 | -17 | 4 | -1 | 20 | 30 | 4 | 25 | 9 | 41 | 100 | 121 | 84 | 46 | 30 | 20 | 30 | 36 | 46 | 57 | -182 | -396 | -289 | -31 |
| 20 | -124 | 24 | 61 | 56 | 40 | 29 | 13 | 13 | 13 | 19 | 29 | 45 | 67 | 126 | 248 | 200 | 158 | 126 | 110 | -87 | -66 | -71 | -130 | -242 | 27 |
| 21 | -152 | 18 | 34 | 39 | 34 | 23 | 23 | 18 | 12 | 18 | 18 | 23 | 39 | 55 | 66 | 71 | 71 | 82 | 66 | 44 | 39 | 7 | -67 | -67 | 21 |
| 22 | -11 | 31 | 42 | 36 | 31 | 20 | 15 | 10 | 4 | 0 | 10 | 31 | 47 | 63 | 52 | 47 | 36 | 31 | 47 | 68 | 36 | 0 | 10 | -16 | 27 |
| 23 | -21 | -5 | 21 | 31 | 15 | 21 | 15 | 5 | -5 | -5 | 0 | 10 | 21 | 21 | 31 | 37 | 47 | 63 | 63 | 42 | 15 | 10 | 10 | 15 | 19 |
| 24 | 33 | 38 | 38 | 33 | 28 | 22 | 17 | 6 | -3 | -9 | 12 | 22 | 28 | 33 | 49 | 71 | 103 | 119 | 129 | 119 | 71 | -3 | -158 | -137 | 27 |
| 25 | -12 | 35 | 46 | 35 | 24 | 14 | 3 | -7 | -7 | 8 | 24 | 24 | 30 | 46 | 40 | 40 | 56 | 99 | 105 | 131 | 83 | -92 | -178 | -172 | 16 |
| 26 | -164 | -271 | -276 | -207 | -41 | 33 | 49 | 33 | 33 | 33 | 33 | 38 | 43 | 65 | 49 | 65 | 97 | 134 | 139 | 86 | 65 | 38 | 33 | -25 | 3 |
| 27 | -20 | 33 | 33 | 33 | 22 | 17 | -4 | -4 | -9 | -9 | 33 | 54 | 33 | 44 | 49 | 38 | 44 | 38 | 33 | 22 | 33 | 27 | 27 | 27 | 25 |
| 28 | 26 | 26 | 0 | -16 | -5 | 0 | 0 | 10 | 10 | 10 | 15 | 26 | 37 | 42 | 45 | 47 | 47 | 47 | 50 | 50 | 47 | 31 | 0 | -96 | 19 |
| 29 | 3 | 24 | 30 | 30 | 30 | 30 | 24 | 14 | -1 | -1 | -1 | 19 | 24 | 30 | 40 | 62 | 88 | 99 | 88 | 72 | 62 | 24 | -167 | -215 | 17 |
| 30 | -72 | 39 | 39 | 31 | 23 | 18 | 13 | 2 | 2 | 2 | 2 | 18 | 29 | 34 | 50 | 50 | 42 | 45 | 45 | 45 | 45 | 42 | 34 | 34 | 26 |
| Mean | -48 | -19 | 12 | 20 | 22 | 22 | 17 | 12 | 8 | 6 | 14 | 34 | 44 | 59 | 66 | 68 | 77 | 82 | 75 | 52 | 25 | -8 | -41 | -55 | 22 |

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

Hourly mean values

July 1987

| Day | 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 | 45 | 48 | 51 | 45 | 40 | 35 | 29 | 24 | 19 | 13 | 8 | 11 | 19 | 29 | 35 | 45 | 51 | 62 | 62 | 67 | 62 | 45 | 24 | 29 | 37 |
| 2 | 29 | 35 | 35 | 29 | 35 | 24 | 19 | 13 | 19 | 24 | 27 | 24 | 24 | 35 | 45 | 48 | 51 | 51 | 72 | 78 | 45 | 13 | -34 | -28 | 30 |
| 3 | 3 | 19 | 40 | 40 | 35 | 29 | 24 | 16 | 13 | 8 | 3 | 13 | 29 | 24 | 29 | 40 | 45 | 45 | 51 | 78 | 88 | 62 | -39 | -172 | 22 |
| 4 | -135 | -34 | 13 | 29 | 35 | 29 | 19 | 3 | 13 | 13 | 19 | 19 | 24 | 35 | 40 | 51 | 72 | 83 | 8 | 51 | -18 | -39 | -108 | -60 | 7 |
| 5 | -37 | -101 | -27 | 15 | 37 | 42 | 37 | 26 | 21 | 21 | 21 | 31 | 31 | 58 | 63 | 74 | 90 | 79 | 53 | 47 | 42 | 10 | -59 | -133 | 18 |
| 6 | -42 | 37 | 32 | 37 | 37 | 32 | 27 | 21 | 16 | 21 | 21 | 27 | 37 | 53 | 91 | 75 | 64 | 64 | 64 | 69 | 37 | 37 | -52 | 27 | 35 |
| 7 | 32 | 29 | 29 | 32 | 35 | 37 | 32 | 27 | 16 | 5 | 5 | 11 | 21 | 37 | 53 | 69 | 69 | 80 | 80 | 80 | 5 | 16 | 21 | 32 | 36 |
| 8 | 5 | 16 | -15 | -4 | -10 | 48 | 32 | 32 | 27 | 32 | 21 | 32 | 27 | 96 | 85 | 112 | 91 | 80 | 91 | 85 | 16 | -63 | -154 | -122 | 23 |
| 9 | 16 | 48 | 16 | -20 | 11 | 21 | 16 | 16 | 11 | 11 | 5 | 37 | 37 | 43 | 75 | 43 | 64 | 75 | 91 | 117 | 69 | -90 | -127 | -42 | 22 |
| 10 | -5 | -176 | -288 | -117 | -11 | 31 | 21 | 4 | 10 | 26 | 37 | 47 | 101 | 181 | 165 | 90 | 74 | 42 | 74 | 85 | 31 | 31 | 21 | 4 | 20 |
| 11 | -5 | -11 | 10 | 15 | 4 | 37 | 26 | 15 | 15 | 15 | 21 | 47 | 74 | 69 | 85 | 106 | 101 | 95 | 58 | 37 | 42 | 31 | -53 | -155 | 28 |
| 12 | -6 | 30 | 25 | 25 | 20 | 14 | 25 | 14 | 20 | 14 | 25 | 14 | 52 | 25 | 36 | 41 | 41 | 41 | 52 | 68 | 68 | -27 | -81 | -124 | 17 |
| 13 | -97 | -22 | 52 | 36 | 41 | 36 | 25 | 20 | 4 | 4 | 4 | 9 | 25 | 36 | 46 | 52 | 54 | 57 | 62 | 60 | 60 | 44 | -54 | -70 | 20 |
| 14 | 9 | -6 | 46 | 41 | 36 | 14 | 9 | 14 | 14 | 9 | 4 | 9 | 25 | 30 | 36 | 52 | 68 | 84 | 73 | 62 | 62 | 46 | 14 | -102 | 27 |
| 15 | -32 | 21 | 53 | 42 | 31 | 26 | 31 | 21 | 21 | 37 | 58 | 90 | 4 | 282 | 293 | 261 | 186 | 149 | 138 | 74 | 47 | -245 | -475 | -283 | 34 |
| 16 | -203 | -187 | -278 | -219 | -149 | -59 | -59 | -48 | 0 | 63 | 47 | 31 | 47 | 79 | 117 | 69 | 149 | 74 | 31 | 85 | 47 | -32 | -165 | -352 | -37 |
| 17 | -181 | -95 | -10 | -15 | -116 | 27 | 32 | 48 | 27 | 16 | 48 | 123 | 182 | 155 | 155 | 80 | 43 | 32 | 37 | 37 | -36 | -36 | -68 | -223 | 10 |
| 18 | -321 | -75 | 0 | -5 | -11 | 36 | 36 | 36 | 31 | 31 | 42 | 68 | 100 | 116 | 79 | 90 | 79 | 74 | 58 | 68 | 26 | -27 | -11 | 15 | 22 |
| 19 | -8 | -51 | -30 | 17 | 82 | 17 | 23 | 12 | 12 | 28 | 17 | 23 | 23 | 76 | 92 | 87 | 66 | 60 | 66 | 71 | -14 | -195 | -83 | -83 | 13 |
| 20 | -80 | -26 | 15 | 15 | -21 | 31 | 21 | 15 | 5 | 0 | 15 | 21 | 37 | 58 | 42 | 63 | 122 | 106 | 90 | 101 | 26 | -16 | -245 | -42 | 14 |
| 21 | -57 | 44 | 38 | 44 | 33 | 28 | 17 | 17 | 17 | 17 | 12 | 12 | 17 | 38 | 49 | 81 | 102 | 86 | 76 | 54 | 44 | 33 | 17 | -3 | 34 |
| 22 | -123 | -75 | 36 | 15 | 31 | 15 | 0 | -6 | 52 | 0 | 25 | 47 | 47 | -11 | -11 | -6 | 73 | 73 | 89 | 84 | -118 | -22 | -75 | -64 | 3 |
| 23 | -22 | 30 | 41 | 41 | 30 | 19 | 17 | 14 | 11 | 9 | 14 | 30 | 46 | 83 | 110 | 110 | 94 | 110 | 121 | 67 | 46 | -65 | -44 | -28 | 37 |
| 24 | 21 | 42 | 37 | 37 | 31 | 31 | 31 | 26 | 4 | 0 | 10 | 26 | 47 | 31 | 53 | 47 | 69 | 127 | 138 | 85 | 90 | 53 | 31 | -21 | 43 |
| 25 | -117 | 10 | 31 | 31 | 37 | 26 | 21 | 15 | 4 | 63 | 15 | 31 | 47 | 37 | 63 | 133 | 186 | 138 | 117 | 53 | -5 | -117 | -32 | 0 | 33 |
| 26 | 15 | 15 | 31 | 37 | 34 | 23 | 12 | 10 | 7 | 4 | 12 | 21 | 26 | 34 | 39 | 39 | 39 | 42 | 47 | 53 | 47 | 42 | 37 | 31 | 29 |
| 27 | 37 | -5 | -112 | -43 | 4 | 15 | 21 | 31 | 15 | 15 | 10 | 10 | 26 | 53 | 58 | 79 | 74 | 90 | 90 | 79 | 63 | 31 | 10 | -5 | 27 |
| 28 | -11 | -5 | 10 | 31 | 37 | 42 | 26 | 15 | 4 | 15 | 47 | 85 | 149 | 282 | 448 | 389 | 282 | 223 | 111 | 63 | 4 | 15 | 15 | -32 | 93 |
| 29 | 64 | -218 | -672 | -367 | -485 | -458 | -287 | -170 | -31 | 85 | 155 | 182 | 192 | 256 | 203 | 69 | 16 | 32 | 37 | 43 | 37 | 32 | 11 | -47 | -54 |
| 30 | -118 | -161 | -124 | 4 | 25 | 14 | 4 | 4 | 4 | 4 | 20 | 30 | 57 | 169 | 196 | 78 | 46 | 41 | 36 | 46 | 30 | 30 | -6 | -209 | 9 |
| 31 | -443 | -326 | -315 | -283 | -272 | -11 | 21 | 26 | 4 | 21 | 31 | 4 | 37 | 74 | 90 | 74 | 69 | 47 | 58 | 85 | 31 | 37 | 53 | 90 | -33 |
| Mean | -57 | -37 | -39 | -13 | -10 | 8 | 10 | 10 | 13 | 20 | 26 | 38 | 52 | 83 | 95 | 85 | 85 | 79 | 72 | 69 | 31 | -11 | -55 | -70 | 20 |

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

Hourly mean values

August 1987

| Day | 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 | 13 | -90 | -137 | -236 | -126 | -22 | 29 | 34 | 8 | -6 | 8 | 13 | 40 | 19 | 29 | 66 | 55 | 71 | 55 | 50 | 24 | 8 | -64 | -85 | -9 |
| 2 | -106 | -32 | -27 | 24 | 29 | 19 | 24 | 8 | -1 | -6 | -1 | 19 | 19 | 34 | 24 | 34 | 45 | 71 | 81 | 50 | 40 | 29 | 3 | 8 | 16 |
| 3 | 0 | -9 | -25 | 6 | 32 | 42 | 32 | 26 | 16 | 16 | 21 | 53 | 110 | 251 | 345 | 277 | 251 | 167 | 120 | 32 | 11 | 11 | -4 | -4 | 74 |
| 4 | 2 | 13 | 23 | 39 | 18 | 33 | 28 | 28 | -2 | 2 | 13 | 13 | 13 | 44 | 65 | 86 | 86 | 86 | 80 | 80 | 28 | -44 | -138 | -80 | 21 |
| 5 | -72 | -348 | -197 | 5 | 58 | 26 | 5 | 5 | -9 | 16 | 11 | 52 | 68 | 58 | 126 | 110 | 68 | 89 | 79 | 73 | -35 | -103 | 5 | 21 | 4 |
| 6 | 26 | 21 | 21 | 11 | 11 | 21 | 21 | 11 | 0 | 0 | 5 | 26 | 105 | 125 | 146 | 167 | 94 | 89 | 47 | 47 | -20 | -88 | -103 | -46 | 31 |
| 7 | -30 | -98 | -41 | 42 | 42 | 31 | 16 | 11 | 5 | 5 | 11 | 21 | 37 | 52 | 42 | 31 | 42 | 47 | 58 | 58 | 31 | 21 | 11 | 11 | 19 |
| 8 | -2 | -2 | 2 | 2 | 18 | 7 | 7 | 12 | -2 | 2 | 12 | 23 | 59 | 112 | 179 | 138 | 117 | 106 | 96 | 70 | 38 | 2 | 2 | -154 | 35 |
| 9 | -314 | -89 | 51 | 19 | 0 | -11 | 0 | 9 | 4 | 14 | 30 | 40 | 72 | 160 | 213 | 171 | 113 | 98 | 103 | 66 | 30 | 14 | -6 | -6 | 32 |
| 10 | -11 | -1 | 35 | 32 | 30 | 25 | 17 | 14 | 14 | 11 | 17 | 25 | 30 | 35 | 45 | 45 | 56 | 98 | 124 | 92 | 45 | 4 | 9 | 45 | 35 |
| 11 | 16 | 11 | 21 | 37 | 21 | 19 | 16 | 11 | 8 | 6 | 8 | 11 | 26 | 42 | 53 | 53 | 73 | 100 | 141 | 84 | 32 | -25 | 0 | -4 | 32 |
| 12 | -106 | -173 | -43 | -22 | 24 | 40 | 34 | 24 | 19 | 13 | -1 | 13 | 60 | 165 | 301 | 295 | 201 | 123 | 107 | 19 | -38 | -106 | -330 | -461 | 6 |
| 13 | -252 | -121 | -38 | 45 | 34 | 24 | 24 | -1 | 29 | 71 | 13 | 29 | 34 | 50 | 55 | 40 | 71 | 81 | 87 | 40 | -106 | -111 | -116 | -121 | -5 |
| 14 | -44 | -164 | -195 | -23 | -112 | -18 | 28 | 23 | 18 | 7 | 7 | 44 | 44 | 70 | 107 | 138 | 101 | 60 | 60 | -7 | -65 | -59 | -206 | -164 | -14 |
| 15 | -91 | -80 | -12 | 34 | -12 | -7 | 7 | 2 | 18 | 28 | 60 | 86 | 49 | 96 | 117 | 75 | 39 | 39 | 86 | -44 | -59 | -347 | -284 | -253 | -18 |
| 16 | -211 | -180 | -2 | -2 | -44 | 18 | 34 | 34 | 28 | 34 | 34 | 49 | 49 | 60 | 34 | 28 | 54 | 54 | 70 | 34 | -23 | -96 | -12 | -33 | 0 |
| 17 | -2 | -18 | -33 | 18 | 13 | 23 | 18 | 13 | 7 | 2 | 2 | 13 | 39 | 86 | 211 | 242 | 190 | 101 | 80 | 60 | -75 | -7 | -86 | -106 | 33 |
| 18 | -2 | 18 | -18 | -54 | -2 | 7 | 18 | 13 | 7 | 7 | 13 | 13 | 18 | 28 | 54 | 49 | 80 | 86 | 80 | 60 | 23 | -7 | 7 | 18 | 21 |
| 19 | 13 | -18 | -96 | -75 | -70 | -18 | 18 | 28 | 2 | 13 | 18 | 23 | 44 | 122 | 143 | 75 | 60 | 86 | 65 | 70 | 49 | 34 | -33 | -2 | 23 |
| 20 | -153 | -33 | -2 | -2 | 7 | 2 | 13 | 13 | 13 | 13 | 7 | 49 | 80 | 70 | 91 | 65 | 34 | 60 | 60 | 75 | 34 | 7 | -2 | -7 | 20 |
| 21 | -70 | -75 | -33 | 7 | 18 | 20 | 23 | 20 | 18 | 13 | 10 | 10 | 18 | 20 | 23 | 39 | 70 | 86 | 80 | 54 | 39 | 23 | 23 | 23 | 19 |
| 22 | 23 | 26 | 28 | 28 | 26 | 23 | 18 | 10 | 2 | 2 | 7 | 23 | 28 | 34 | 44 | 65 | 101 | 117 | 101 | -86 | 13 | 34 | 13 | 13 | 29 |
| 23 | 34 | 18 | 23 | 18 | 13 | 28 | 18 | 18 | 7 | 18 | 23 | 23 | 75 | 117 | 216 | 190 | 174 | 143 | 112 | 28 | 2 | -86 | -54 | -49 | 46 |
| 24 | -18 | 23 | -12 | 7 | 44 | 39 | 28 | 13 | 2 | 18 | 7 | 54 | 86 | 164 | 122 | 60 | 65 | 101 | 127 | 80 | 34 | 44 | 28 | 23 | 47 |
| 25 | 33 | 27 | 27 | 25 | 22 | 22 | 22 | 1 | -3 | 17 | 80 | 252 | 262 | 356 | 408 | 236 | 200 | 69 | -8 | -60 | -86 | -165 | -175 | -139 | 59 |
| 26 | -97 | -180 | -400 | -321 | -295 | -243 | -118 | 17 | 27 | 27 | 111 | 153 | 226 | 153 | 268 | 163 | 121 | 90 | 80 | -8 | -269 | -243 | -107 | -123 | -40 |
| 27 | -76 | -71 | 43 | 27 | 43 | 7 | -3 | -3 | 43 | 27 | 74 | 95 | 121 | 174 | 121 | 226 | 215 | 200 | 101 | -50 | 27 | 43 | 22 | 7 | 59 |
| 28 | -2 | 13 | 18 | -12 | 23 | 28 | 28 | 23 | 7 | 7 | 23 | 39 | 49 | 60 | 91 | 164 | 148 | 107 | -112 | -96 | -143 | -159 | -320 | -435 | -18 |
| 29 | -267 | -59 | 8 | 29 | 40 | 24 | 13 | 24 | 24 | 24 | 13 | 13 | 19 | 29 | 40 | 81 | 128 | 118 | 76 | -215 | -111 | -48 | -147 | -43 | -7 |
| 30 | -43 | 8 | 34 | 24 | 34 | 29 | 8 | -32 | -53 | -6 | 3 | 3 | 29 | 24 | 60 | 134 | 160 | 92 | 66 | 40 | -12 | -48 | -215 | -64 | 11 |
| 31 | -66 | -19 | -8 | -24 | -13 | -13 | -19 | -50 | -19 | -8 | 48 | 64 | 147 | 304 | 278 | 288 | 121 | 111 | 121 | 54 | -19 | -102 | -149 | -186 | 35 |
| Mean | -60 | -54 | -31 | -9 | -2 | 7 | 13 | 11 | 7 | 12 | 22 | 43 | 66 | 100 | 131 | 124 | 108 | 95 | 78 | 24 | -18 | -50 | -78 | -77 | 19 |

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

Hourly mean values

September 1987

| Day | 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 | -269 | -410 | -426 | -467 | -97 | -60 | -34 | -86 | 7 | 22 | 95 | 121 | 330 | 252 | 268 | 236 | 184 | 101 | 17 | 7 | -45 | -154 | -374 | -295 | -44 |
| 2 | -344 | -297 | -57 | 15 | 15 | 5 | 41 | 41 | 36 | 21 | 26 | 47 | 83 | 83 | 41 | 73 | 83 | 94 | 5 | -114 | -78 | -52 | 15 | 15 | -8 |
| 3 | 15 | 15 | 18 | 15 | 13 | 10 | 7 | 5 | 2 | 0 | 5 | -2 | 5 | 13 | 15 | 26 | 23 | 26 | 26 | 26 | 26 | 21 | 10 | 5 | 13 |
| 4 | 5 | 5 | 5 | 5 | 5 | 21 | 15 | 5 | -5 | -5 | 10 | 31 | 78 | 78 | 141 | 151 | 146 | 83 | 99 | 36 | -72 | -166 | -72 | -198 | 16 |
| 5 | -196 | -19 | 1 | 22 | 27 | 22 | 7 | 7 | 1 | 1 | 7 | 33 | 54 | 27 | 33 | 22 | 27 | 33 | 48 | 64 | 48 | 12 | -55 | -24 | 8 |
| 6 | 7 | -101 | -117 | -44 | 28 | 23 | 18 | 13 | 13 | 18 | 39 | 34 | 34 | 34 | 34 | 44 | 96 | 133 | 80 | 34 | -226 | -122 | -122 | -75 | -5 |
| 7 | 13 | 24 | 24 | 24 | 21 | 19 | 11 | -1 | -6 | 3 | 8 | 24 | 71 | 165 | 196 | 92 | 45 | 34 | 29 | 60 | 45 | 29 | -1 | -372 | 23 |
| 8 | -246 | -84 | -6 | 9 | 20 | 25 | 20 | 14 | 4 | 4 | 20 | 25 | 25 | 61 | 46 | 87 | 61 | 35 | 40 | 35 | 20 | -42 | -79 | 0 | 4 |
| 9 | 20 | 9 | -16 | 9 | 9 | 25 | 20 | 4 | -16 | 4 | 0 | 30 | 0 | 4 | 30 | 35 | 25 | 35 | 35 | 35 | -32 | -53 | -26 | -63 | 5 |
| 10 | -1 | 19 | 19 | 21 | 24 | 21 | 19 | 13 | 3 | 3 | -1 | 24 | 123 | 217 | 280 | 238 | 113 | 60 | 71 | 8 | -100 | -434 | -320 | -179 | 10 |
| 11 | -335 | -476 | -137 | -43 | 45 | 71 | 45 | 29 | 13 | 71 | 123 | 123 | 123 | 81 | 45 | 71 | 123 | 8 | 34 | -85 | -194 | -200 | -106 | -6 | -23 |
| 12 | 9 | -16 | 9 | -6 | -32 | -47 | -32 | 35 | 35 | 46 | 25 | 35 | 40 | 82 | 124 | 140 | 87 | 82 | -6 | -345 | -183 | -199 | -475 | -282 | -36 |
| 13 | -220 | -277 | -178 | -6 | 56 | 35 | 35 | 25 | 9 | -6 | 14 | 9 | 67 | 108 | 260 | 218 | 150 | 82 | -16 | 14 | 9 | -178 | -371 | -397 | -23 |
| 14 | -346 | -179 | -173 | -346 | 29 | 55 | 60 | 34 | 3 | 29 | 13 | 66 | 66 | 81 | 66 | 97 | 55 | 55 | 34 | -95 | -476 | -194 | 24 | 3 | -43 |
| 15 | -59 | -231 | -74 | 29 | 19 | -12 | 34 | 8 | 29 | 60 | 3 | 60 | 87 | 81 | 55 | 97 | 175 | 71 | -6 | -398 | -69 | -346 | -346 | -393 | -46 |
| 16 | -231 | -163 | 40 | 29 | 34 | 29 | -1 | 34 | 24 | 19 | 60 | 71 | 60 | 66 | 60 | 60 | 92 | 97 | 81 | 45 | 8 | -168 | -356 | -283 | -11 |
| 17 | -153 | -80 | -12 | 28 | 13 | -2 | 23 | 18 | 23 | -7 | 2 | 7 | 49 | 75 | 96 | 122 | 112 | 133 | -347 | -242 | -65 | -122 | -420 | -279 | -42 |
| 18 | -118 | 17 | 22 | 22 | 22 | 27 | 22 | 12 | -3 | 7 | 12 | 54 | 17 | 17 | 38 | 43 | 38 | 43 | 43 | 43 | 27 | -76 | -55 | -39 | 10 |
| 19 | 7 | 12 | 17 | 20 | 22 | 25 | 22 | 14 | 4 | 1 | 1 | 1 | 1 | 17 | 22 | 27 | 17 | 33 | 27 | 25 | 22 | 22 | 25 | 27 | 17 |
| 20 | 27 | 27 | 27 | 27 | 27 | 25 | 22 | 14 | 1 | 1 | 12 | 22 | 27 | 27 | 85 | 95 | 132 | 43 | -86 | 17 | 80 | 69 | 38 | 33 | 33 |
| 21 | 1 | -19 | -55 | -50 | 27 | 22 | 27 | 22 | 12 | 17 | 7 | 22 | 54 | 80 | 74 | 33 | 38 | 54 | 64 | 59 | 54 | 33 | 27 | 12 | 25 |
| 22 | -71 | -180 | -222 | -123 | -107 | -50 | 1 | 1 | 7 | 17 | 1 | 27 | 12 | 17 | 22 | 59 | 153 | -97 | -113 | 12 | -8 | -107 | -128 | -452 | -55 |
| 23 | -217 | -400 | -295 | -45 | 22 | 22 | 12 | 27 | 1 | 1 | 7 | 17 | 22 | 27 | 38 | 48 | 74 | 85 | 54 | 38 | -8 | -24 | 7 | 22 | -19 |
| 24 | 22 | 22 | 7 | -97 | -29 | 17 | 22 | 12 | 1 | 7 | 1 | 1 | 17 | 22 | 27 | 27 | 27 | 38 | 38 | 17 | 7 | 33 | 22 | 1 | 11 |
| 25 | 13 | 23 | 13 | -12 | -23 | -23 | -33 | -18 | 2 | 60 | 112 | 211 | 289 | 263 | 201 | 201 | 174 | 54 | -2 | -106 | -96 | 13 | -23 | -242 | 43 |
| 26 | -96 | 7 | -2 | -54 | -127 | -148 | -54 | 2 | 18 | 28 | 28 | 44 | 60 | 80 | 28 | 18 | 34 | 86 | 28 | -7 | 28 | 34 | 28 | 39 | 4 |
| 27 | 18 | 13 | 13 | 13 | 18 | 13 | 18 | 13 | 7 | 13 | 2 | 13 | 13 | 34 | 23 | 34 | 91 | 101 | 23 | 7 | -80 | -28 | -7 | 2 | 15 |
| 28 | -268 | -409 | -138 | 7 | 23 | 23 | 23 | 28 | 18 | 2 | 18 | 60 | 101 | 34 | 34 | 60 | 70 | 86 | 75 | -242 | -106 | -59 | -226 | -195 | -40 |
| 29 | -101 | -101 | -117 | -39 | 44 | 34 | 34 | 18 | 13 | 18 | 34 | 54 | 159 | 122 | 295 | 263 | 164 | -59 | -138 | -127 | -127 | -169 | -347 | -106 | -7 |
| 30 | -112 | -399 | -702 | -461 | -117 | 60 | -2 | -7 | -59 | 75 | 80 | 65 | 112 | 138 | 159 | 133 | 127 | -242 | -86 | -28 | -279 | -206 | -106 | -133 | -83 |
| Mean | -107 | -121 | -83 | -49 | 1 | 9 | 13 | 11 | 6 | 18 | 25 | 44 | 73 | 80 | 94 | 95 | 91 | 46 | 5 | -40 | -62 | -94 | -127 | -128 | -8 |

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

Hourly mean values

October 1987

| Day | 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 | -185 | -86 | -18 | 13 | 23 | 23 | 13 | -12 | 7 | 7 | 28 | 39 | 28 | 44 | 39 | 80 | 70 | 60 | 39 | -75 | -195 | -122 | -23 | -101 | -12 |
| 2 | -96 | -33 | -106 | -59 | -2 | 13 | 18 | 13 | 13 | 13 | 28 | 34 | 13 | 23 | 13 | 13 | 23 | 49 | 44 | 23 | 23 | 20 | 18 | 18 | 4 |
| 3 | 15 | 18 | 18 | 20 | 23 | 23 | 13 | -7 | -28 | -12 | 49 | 127 | 242 | 253 | 232 | 44 | -28 | -49 | 13 | -347 | -180 | -112 | -44 | -112 | 7 |
| 4 | -33 | -65 | -59 | -65 | 2 | 18 | 23 | 18 | 23 | 2 | 18 | 54 | 80 | 65 | 143 | 96 | 117 | 54 | 18 | 18 | 13 | 13 | 7 | -33 | 22 |
| 5 | 2 | 13 | 13 | 13 | 13 | 15 | 18 | 18 | 15 | 7 | 7 | 28 | 34 | 28 | 34 | 54 | 80 | 65 | 44 | 54 | 13 | -96 | -91 | 2 | 16 |
| 6 | 18 | 18 | 18 | 18 | 18 | 10 | 5 | 2 | -2 | 5 | 7 | 7 | 10 | 13 | 15 | 20 | 23 | 28 | 28 | 39 | -70 | -91 | -49 | -7 | 3 |
| 7 | 13 | 7 | 15 | 18 | 20 | 23 | 18 | 15 | 13 | 13 | 7 | -2 | 23 | 180 | 96 | 28 | 23 | 23 | 23 | 23 | 23 | 7 | 23 | -18 | 26 |
| 8 | -44 | -59 | -70 | -23 | 18 | 23 | 13 | 7 | 7 | 2 | 13 | 39 | 7 | 23 | 34 | 23 | 44 | 49 | 91 | 60 | 70 | 28 | 18 | 13 | 16 |
| 9 | 15 | 15 | 13 | 13 | 13 | 13 | 13 | 10 | 2 | 0 | -2 | 0 | 5 | 13 | 18 | 23 | 28 | 28 | 34 | 54 | -33 | -117 | -122 | -138 | -4 |
| 10 | -121 | -106 | -85 | 34 | 8 | 19 | 29 | 29 | 24 | 8 | 6 | 8 | 13 | 19 | 21 | 24 | 29 | 50 | 81 | 87 | 34 | 29 | 24 | -6 | 11 |
| 11 | 3 | 19 | -85 | -32 | 3 | 19 | -1 | 29 | 29 | 24 | 19 | 24 | 19 | 24 | 113 | 19 | 71 | 50 | -320 | -267 | -59 | 40 | 50 | 24 | -7 |
| 12 | 13 | 29 | 19 | 21 | 21 | 24 | 24 | 21 | 16 | 13 | 11 | 8 | 8 | 19 | 66 | 50 | 29 | 29 | 55 | 50 | 34 | 29 | -32 | -48 | 21 |
| 13 | -126 | -215 | -64 | 13 | 29 | 29 | 34 | 24 | 8 | 19 | 19 | 45 | 45 | 128 | 139 | 165 | 118 | -17 | -95 | -450 | -330 | -59 | -6 | -163 | -29 |
| 14 | -346 | -189 | -179 | -95 | 8 | 34 | 8 | 29 | 60 | 34 | -12 | 71 | 45 | 102 | 97 | 45 | 45 | 55 | 60 | -293 | -267 | -168 | -163 | -168 | -49 |
| 15 | -53 | -38 | -173 | -27 | -6 | 8 | 3 | 40 | 60 | 45 | 71 | 92 | 87 | 113 | 149 | 113 | 24 | 87 | -1 | -168 | -252 | -116 | 19 | -12 | 2 |
| 16 | 13 | -17 | -1 | -6 | 8 | 24 | 13 | 34 | 3 | 8 | 8 | 19 | 34 | 50 | 50 | 81 | 29 | 66 | 8 | 55 | -59 | -137 | -59 | -22 | 8 |
| 17 | -22 | 13 | 13 | 19 | 24 | 24 | 29 | 29 | 24 | 19 | 3 | 24 | 50 | 134 | 97 | 107 | 50 | 55 | -179 | 8 | -179 | -278 | -173 | -126 | -9 |
| 18 | -48 | 24 | 27 | 24 | 27 | 27 | 22 | 20 | 8 | 3 | 3 | 13 | 19 | 19 | 29 | 34 | 29 | 24 | 21 | 21 | 3 | -6 | 8 | 3 | 15 |
| 19 | -3 | -3 | 7 | 17 | 16 | 14 | 14 | 11 | 1 | 7 | 7 | 17 | 22 | 7 | 22 | 54 | 54 | 43 | 59 | 7 | 7 | 17 | -3 | -128 | 11 |
| 20 | -4 | 21 | 21 | 21 | 21 | 18 | 16 | 16 | 16 | -103 | 0 | 16 | 21 | 31 | 57 | 141 | 214 | 209 | 146 | 52 | 16 | -328 | -239 | -171 | 8 |
| 21 | -161 | -224 | -171 | -124 | -98 | 21 | 21 | 21 | 26 | 26 | 16 | 21 | 42 | 83 | 125 | 162 | 162 | -67 | 47 | -354 | -239 | -171 | -166 | -156 | -48 |
| 22 | 16 | 16 | 16 | 21 | 21 | 23 | 23 | 19 | 15 | 10 | 8 | 5 | 10 | 16 | 16 | 21 | 20 | 21 | 23 | 26 | 36 | 26 | 21 | -20 | 17 |
| 23 | -234 | -234 | -98 | -20 | 21 | 0 | 21 | 57 | 47 | 31 | -9 | 5 | 36 | 63 | 73 | 99 | 125 | 31 | 31 | 36 | 0 | -67 | 0 | 14 | 1 |
| 24 | 11 | 11 | -10 | -5 | 20 | 25 | 15 | 4 | 0 | 4 | 10 | 15 | 0 | 41 | 72 | 109 | 83 | 93 | 93 | -89 | -31 | -219 | -120 | -31 | 4 |
| 25 | -277 | -381 | -470 | -303 | -188 | 10 | -31 | 51 | 10 | 72 | 145 | 150 | 114 | 83 | 25 | 4 | 15 | 20 | 25 | -63 | -224 | -355 | -183 | -83 | -76 |
| 26 | -15 | -36 | 10 | 16 | 5 | 21 | 5 | 16 | 16 | 21 | 78 | 99 | 68 | 73 | 99 | 120 | 63 | 42 | 63 | 26 | 21 | -15 | -93 | -197 | 21 |
| 27 | -83 | -145 | -317 | -208 | -103 | -41 | -4 | 42 | 16 | 68 | 89 | 99 | 193 | 16 | 89 | 94 | 115 | -51 | -171 | -239 | -208 | -265 | -260 | -130 | -58 |
| 28 | -683 | -432 | -109 | -41 | -67 | -114 | -15 | -9 | 57 | 89 | 141 | 183 | 151 | 141 | 89 | 52 | -56 | -114 | -114 | -192 | -401 | -229 | -41 | -77 | -74 |
| 29 | -224 | -224 | -72 | -30 | 31 | 47 | 36 | 36 | 42 | 36 | 47 | 68 | 57 | 104 | 78 | 83 | 110 | 63 | 63 | -197 | -30 | -145 | -46 | -109 | -7 |
| 30 | -119 | -124 | -30 | 21 | 0 | 21 | 26 | 16 | 36 | 78 | 57 | 10 | 16 | 31 | 31 | 21 | 21 | 26 | 31 | 26 | -15 | -203 | -156 | -88 | -10 |
| 31 | -57 | -31 | 20 | 20 | 25 | 15 | 0 | 10 | -5 | 15 | 46 | 36 | 25 | 30 | 51 | 67 | 36 | 67 | 30 | -172 | -136 | -73 | -68 | -104 | -6 |
| Mean | -90 | -78 | -61 | -23 | -1 | 14 | 13 | 20 | 18 | 18 | 30 | 44 | 49 | 63 | 71 | 66 | 57 | 35 | 9 | -72 | -84 | -102 | -63 | -70 | -5 |

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

Hourly mean values

November 1987

| Day | 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 | -52 | -57 | -36 | -52 | -5 | 15 | 15 | 10 | 4 | 15 | 25 | 15 | 41 | 57 | 83 | 51 | 41 | 41 | 30 | 36 | 15 | 20 | 20 | 15 | 14 |
| 2 | 0 | -73 | -68 | -36 | 10 | 25 | 30 | 25 | 20 | 4 | 15 | 36 | 67 | 192 | 213 | 177 | 0 | 10 | -89 | -57 | -146 | -449 | -198 | -146 | -18 |
| 3 | -57 | -16 | -21 | 36 | 36 | 36 | 30 | 25 | 25 | 20 | 30 | 36 | 62 | 114 | 104 | 88 | 62 | 4 | -277 | -209 | -120 | -511 | -365 | -193 | -44 |
| 4 | -130 | -89 | 67 | 41 | 30 | 25 | 25 | 20 | 4 | 4 | 7 | 10 | 15 | 17 | 20 | 20 | 41 | 51 | 46 | 51 | 36 | 36 | -120 | -68 | 7 |
| 5 | -69 | -11 | 24 | 22 | 19 | 19 | 17 | 19 | 19 | 14 | 19 | 24 | 19 | 19 | 24 | 35 | 139 | 150 | 134 | 77 | -11 | -16 | -95 | -58 | 22 |
| 6 | -86 | -86 | -49 | -23 | -76 | 2 | 33 | 28 | 23 | 2 | 7 | 23 | 17 | 59 | 28 | 28 | 23 | 23 | 38 | 70 | 38 | 33 | 49 | 54 | 10 |
| 7 | 19 | 19 | 19 | 22 | 24 | 27 | 27 | 24 | 22 | 17 | 11 | 11 | 17 | 19 | 22 | 22 | 22 | 22 | 24 | 27 | 24 | 24 | 24 | 22 | 21 |
| 8 | 20 | 17 | 20 | 23 | 25 | 28 | 25 | 23 | 17 | -193 | 12 | 12 | 17 | 25 | 28 | 30 | 33 | 44 | 38 | 36 | 28 | 28 | 20 | 23 | 16 |
| 9 | 23 | 23 | 23 | 23 | 25 | 25 | 23 | 23 | 17 | 17 | 23 | 28 | 33 | 33 | 38 | 49 | 64 | 80 | 70 | 101 | 70 | -8 | -316 | -488 | 0 |
| 10 | -305 | -112 | -44 | 75 | 28 | 23 | 23 | 54 | 33 | 28 | 23 | 17 | 28 | 33 | 28 | 33 | 23 | 28 | 28 | 54 | 38 | 12 | -44 | -70 | 1 |
| 11 | 2 | -13 | -55 | -70 | 7 | -2 | -29 | 44 | 33 | 49 | 33 | 28 | 23 | 17 | 28 | 44 | 64 | 38 | 59 | 17 | -8 | -149 | -347 | -472 | -27 |
| 12 | -540 | -211 | -55 | 2 | 44 | 33 | 23 | 17 | 23 | -8 | 17 | 23 | 17 | 17 | 23 | 33 | 75 | 59 | 106 | 64 | -8 | -44 | -243 | -216 | -30 |
| 13 | -91 | -96 | -154 | -138 | -8 | 38 | 23 | 49 | 12 | 33 | 91 | 106 | 70 | 70 | 190 | 85 | 85 | 33 | 44 | 17 | -81 | -102 | -91 | -149 | 1 |
| 14 | -136 | -95 | 9 | 14 | -48 | -89 | 24 | 40 | 30 | -1 | 45 | 56 | 71 | 24 | 35 | 45 | 103 | 61 | 118 | 108 | -69 | -84 | -147 | -173 | -2 |
| 15 | -112 | -290 | -128 | 12 | 23 | 23 | 28 | 23 | 28 | 17 | 23 | 23 | 28 | 28 | 44 | 49 | 64 | 12 | 64 | -60 | -23 | -8 | 2 | 7 | -4 |
| 16 | 11 | -9 | -55 | 11 | 22 | 48 | 48 | 32 | 22 | 11 | 14 | 14 | 17 | 22 | 27 | 32 | 79 | 37 | 37 | 27 | 22 | 17 | 1 | 1 | 20 |
| 17 | 11 | 19 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 19 | 17 | 17 | 19 | 22 | 22 | 24 | 27 | 27 | 24 | 27 | 27 | 22 | 11 | 22 | 21 |
| 18 | 12 | 10 | 10 | 12 | 18 | 23 | 33 | 23 | 15 | 12 | 12 | 20 | 20 | 23 | 25 | 23 | 23 | 28 | 44 | 49 | 12 | -23 | -39 | -23 | 15 |
| 19 | -52 | 15 | 25 | 20 | 10 | 0 | 15 | 10 | 10 | 15 | 20 | 41 | 25 | 41 | 98 | 104 | 88 | 98 | 88 | 62 | -313 | -104 | -73 | -15 | 9 |
| 20 | -43 | -106 | -132 | -33 | -2 | -2 | -12 | 3 | 24 | 24 | 13 | 18 | 24 | 24 | 39 | 70 | 70 | 55 | 24 | -17 | 13 | 13 | -33 | -122 | -3 |
| 21 | -131 | -63 | 19 | 14 | 14 | 30 | 14 | 9 | 24 | -1 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 24 | 27 | 24 | 19 | 19 | 19 | 9 | 8 |
| 22 | -54 | -22 | 3 | 3 | 13 | 39 | 34 | 29 | 13 | 13 | 8 | 24 | 29 | 18 | 24 | 39 | 39 | 39 | 60 | 50 | -69 | -163 | -106 | -85 | 0 |
| 23 | -29 | -29 | -49 | -39 | -8 | 28 | 12 | 17 | 122 | 111 | 122 | 106 | 153 | 111 | 54 | 70 | 38 | -18 | -498 | -556 | -169 | -175 | -206 | -383 | -50 |
| 24 | -347 | -91 | -70 | -39 | -8 | 17 | 12 | 38 | 17 | 96 | 153 | 122 | 158 | 179 | 179 | 96 | 28 | 80 | 75 | -44 | -159 | -284 | -263 | -175 | -9 |
| 25 | -96 | -2 | -18 | 12 | 17 | 2 | 12 | 7 | 17 | 23 | 7 | 7 | 23 | 54 | 158 | 101 | 75 | 23 | 12 | -70 | -86 | -122 | -107 | -91 | -1 |
| 26 | -158 | -54 | -17 | -7 | 24 | 29 | 18 | 3 | 13 | 18 | 3 | 55 | 86 | 159 | 112 | 60 | 76 | 13 | 97 | 24 | 3 | -22 | -163 | -289 | 3 |
| 27 | -193 | -282 | -329 | -329 | -156 | -83 | -26 | 20 | 36 | 93 | 77 | 93 | 114 | 51 | 130 | 83 | 114 | 20 | 41 | -5 | -73 | -68 | -10 | -5 | -28 |
| 28 | -10 | 0 | -21 | -5 | -16 | 4 | 10 | 10 | 15 | 15 | 15 | 30 | 46 | 36 | 25 | 30 | 25 | 67 | 51 | 62 | 41 | 15 | -5 | -31 | 17 |
| 29 | 4 | 20 | 15 | 15 | 15 | 17 | 15 | 15 | 15 | 15 | 17 | 20 | 20 | 17 | 15 | 15 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 30 | 15 | 15 | 15 | 15 | 17 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 17 | 20 | 20 | 23 | 30 | 72 | 62 | 30 | 25 | 20 | 22 |
| Mean | -86 | -55 | -34 | -12 | 4 | 14 | 18 | 22 | 23 | 16 | 30 | 35 | 43 | 51 | 62 | 52 | 53 | 40 | 19 | 1 | -29 | -68 | -92 | -102 | 0 |

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

Hourly mean values

December 1987

| Day | 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 | 9 | 14 | 24 | 24 | 22 | 22 | 19 | 17 | 17 | 17 | 19 | 19 | 24 | 24 | 30 | 30 | 30 | 24 | 30 | 71 | 61 | 35 | 9 | 3 | 25 |
| 2 | 14 | 14 | 13 | 13 | 14 | 17 | 20 | 20 | 19 | 17 | 14 | 14 | 17 | 19 | 22 | 24 | 24 | 24 | 27 | 30 | 27 | 24 | 17 | 3 | 19 |
| 3 | -74 | -11 | 19 | 30 | 24 | 19 | 30 | 35 | 30 | 19 | 19 | 24 | 19 | 24 | 50 | 97 | 207 | 56 | 19 | 40 | 45 | 19 | -1 | -74 | 28 |
| 4 | 3 | 24 | 18 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 17 | 19 | 19 | 19 | 40 | 134 | 56 | 66 | 56 | 40 | -251 | -460 | -2 |
| 5 | -377 | -136 | -11 | 24 | 40 | 24 | 40 | 19 | -1 | 50 | 24 | 19 | 24 | 35 | 30 | 35 | 82 | 103 | 71 | 87 | 45 | 9 | -22 | -22 | 8 |
| 6 | 40 | 45 | 45 | 30 | -16 | 9 | 14 | 19 | 17 | 17 | 19 | 19 | 19 | 19 | 30 | 30 | 30 | 35 | 71 | 71 | 30 | -147 | -147 | -43 | 10 |
| 7 | 13 | 10 | 8 | 10 | 13 | 13 | 16 | 18 | 19 | 21 | 21 | 21 | 19 | 18 | 18 | 18 | 18 | 24 | 13 | 13 | 8 | 16 | 16 | 18 | 16 |
| 8 | 17 | 15 | 13 | 12 | 13 | 15 | 16 | 16 | 17 | 17 | 17 | 18 | 18 | 19 | 18 | 18 | 17 | 17 | 16 | 16 | 17 | 15 | 12 | 12 | 16 |
| 9 | 13 | 13 | 14 | 17 | 21 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 21 | 20 | 21 | 22 | 24 | 25 | 25 | 29 | 34 | 24 | 18 | 86 | 23 |
| 10 | -49 | 34 | 29 | 24 | 18 | 24 | 18 | 24 | 24 | 24 | 24 | 18 | 44 | 39 | 206 | 8 | 29 | 138 | 81 | -80 | -330 | -137 | -64 | 13 | 6 |
| 11 | -17 | -409 | -163 | 29 | 18 | 13 | 13 | 13 | 13 | 18 | 18 | 24 | 29 | 24 | 39 | 76 | 81 | 97 | 70 | 117 | 44 | -43 | -96 | -96 | -3 |
| 12 | -180 | 7 | 2 | 44 | 12 | 23 | 23 | 23 | 17 | 12 | 23 | 28 | 38 | 38 | 49 | 33 | 38 | 28 | 23 | 17 | -2 | -8 | 2 | 12 | 12 |
| 13 | 10 | 12 | 12 | 12 | 15 | 17 | 17 | 15 | 12 | 12 | 12 | 12 | 15 | 17 | 17 | 20 | 20 | 17 | 17 | 15 | 17 | 23 | 12 | 12 | 15 |
| 14 | 11 | 11 | 11 | 12 | 12 | 15 | 16 | 16 | 13 | 11 | 14 | 17 | 17 | 17 | 17 | 19 | 20 | 32 | 48 | 64 | 43 | -14 | -9 | 17 | 18 |
| 15 | 14 | 12 | 12 | 14 | 16 | 17 | 18 | 19 | 18 | 19 | 19 | 27 | 32 | 27 | 37 | 278 | 283 | 126 | 11 | -155 | -87 | -61 | -87 | -113 | 21 |
| 16 | -368 | -300 | -410 | -331 | -29 | -2 | 33 | 59 | 70 | 44 | 101 | 85 | 54 | 158 | 195 | 153 | -34 | -253 | 59 | 59 | -86 | -253 | -410 | -295 | -70 |
| 17 | -138 | -39 | 12 | 23 | 80 | 75 | 38 | 23 | 17 | 17 | 17 | 17 | 75 | 127 | 174 | 169 | 127 | 38 | 7 | -159 | -201 | -39 | -91 | -263 | 4 |
| 18 | -138 | -23 | -29 | 23 | 49 | 33 | 23 | 17 | 33 | 28 | 28 | 23 | 23 | 17 | 17 | 17 | 12 | 17 | 33 | 28 | 17 | -8 | -18 | -2 | 9 |
| 19 | 3 | 14 | 14 | 16 | 17 | 21 | 20 | 18 | 13 | 13 | 13 | 13 | 29 | 39 | 24 | 44 | 97 | 81 | 24 | -106 | -64 | -38 | -96 | -96 | 4 |
| 20 | -4 | 11 | 11 | 11 | 12 | 18 | 18 | 16 | 11 | 11 | 11 | 11 | 11 | 13 | 16 | 18 | 18 | 57 | 68 | 26 | 21 | 12 | 11 | 12 | 17 |
| 21 | 11 | 10 | 10 | 4 | 0 | 15 | 20 | 20 | 15 | 20 | 20 | 20 | 20 | 62 | 135 | 234 | 224 | 161 | 10 | 15 | -141 | -68 | -146 | -329 | 14 |
| 22 | -245 | -141 | -156 | -73 | 20 | 67 | 31 | 31 | 31 | 15 | 15 | 25 | 20 | 10 | 31 | 46 | 36 | 10 | -120 | -21 | -219 | -438 | 10 | 25 | -41 |
| 23 | -98 | -41 | -67 | 0 | 37 | 26 | 37 | 31 | 21 | 11 | 21 | 31 | 37 | 31 | 94 | 42 | 57 | 120 | 78 | 37 | 21 | 42 | 31 | 11 | 25 |
| 24 | 17 | 11 | 1 | 6 | 11 | 11 | 17 | 11 | 11 | 11 | 17 | 22 | 32 | 37 | 32 | 64 | 43 | 6 | 11 | 6 | -19 | -9 | -40 | -108 | 8 |
| 25 | -16 | 14 | 14 | -1 | 14 | 19 | 24 | 19 | 19 | 9 | 9 | 19 | 30 | 40 | 56 | 14 | 19 | 14 | 9 | 19 | 3 | -43 | -199 | -43 | 2 |
| 26 | 3 | 3 | 3 | 19 | 24 | 19 | 19 | 18 | 18 | 22 | 21 | 20 | 20 | 19 | 18 | 19 | 19 | 35 | 40 | 35 | 24 | -22 | -11 | -6 | 16 |
| 27 | 12 | 17 | 17 | 16 | 16 | 16 | 16 | 17 | 17 | 17 | 17 | 20 | 21 | 22 | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 19 | 18 | 19 |
| 28 | 15 | 14 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 22 | 25 | 26 | 26 | 27 | 27 | 23 | 23 | 44 | 75 | -13 | 7 | -2 | -18 | 19 |
| 29 | 5 | 26 | 31 | 37 | 26 | 26 | 26 | 24 | 22 | 24 | 24 | 24 | 25 | 22 | 20 | 19 | 18 | 18 | 18 | 18 | 17 | 16 | 13 | -15 | 20 |
| 30 | 11 | 13 | 15 | 17 | 18 | 21 | 20 | 17 | 12 | 16 | 17 | 22 | 21 | 19 | 18 | 18 | 19 | 18 | 18 | 17 | 18 | 18 | 16 | 16 | 17 |
| 31 | 16 | 17 | 18 | 18 | 19 | 24 | 23 | 21 | 18 | 20 | 21 | 26 | 31 | 26 | 37 | 63 | 78 | 99 | 78 | 47 | 26 | -4 | 52 | 26 | 33 |
| Mean | -47 | -23 | -14 | 3 | 18 | 21 | 22 | 21 | 19 | 19 | 21 | 23 | 27 | 33 | 49 | 55 | 55 | 43 | 32 | 17 | -18 | -32 | -46 | -54 | 10 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

January 1987

| Day | 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 | 188 | 181 | 155 | 103 | 162 | 188 | 201 | 201 | 201 | 181 | 214 | 227 | 240 | 246 | 233 | 240 | 181 | 181 | 129 | 220 | 194 | 214 | 84 | 175 | 189 |
| 2 | 211 | 213 | 211 | 211 | 211 | 213 | 211 | 211 | 211 | 210 | 215 | 215 | 214 | 214 | 240 | 259 | 246 | 246 | 233 | 220 | 175 | 175 | 201 | 207 | 216 |
| 3 | 212 | 211 | 208 | 209 | 206 | 188 | 188 | 201 | 208 | 213 | 213 | 215 | 219 | 222 | 224 | 227 | 224 | 222 | 234 | 221 | 221 | 195 | 214 | 188 | 212 |
| 4 | 195 | 204 | 210 | 208 | 206 | 211 | 211 | 212 | 214 | 209 | 208 | 208 | 208 | 208 | 209 | 211 | 211 | 214 | 234 | 227 | 234 | 221 | 214 | 188 | 211 |
| 5 | 201 | 200 | 196 | 199 | 204 | 205 | 207 | 206 | 204 | 204 | 205 | 205 | 205 | 206 | 206 | 211 | 211 | 227 | 227 | 220 | 220 | 214 | 214 | 207 | 209 |
| 6 | 211 | 209 | 206 | 205 | 201 | 203 | 203 | 203 | 201 | 202 | 205 | 209 | 207 | 209 | 207 | 209 | 211 | 214 | 222 | 220 | 218 | 201 | 201 | 214 | 208 |
| 7 | 204 | 201 | 200 | 204 | 203 | 201 | 204 | 206 | 201 | 205 | 207 | 207 | 207 | 207 | 207 | 211 | 220 | 227 | 240 | 233 | 233 | 227 | 129 | 129 | 205 |
| 8 | 181 | 194 | 204 | 207 | 211 | 211 | 207 | 199 | 201 | 206 | 204 | 205 | 209 | 214 | 253 | 240 | 253 | 253 | 233 | 155 | 207 | 272 | 194 | 181 | 212 |
| 9 | 188 | 175 | 188 | 198 | 202 | 197 | 198 | 207 | 214 | 220 | 220 | 220 | 233 | 240 | 246 | 233 | 233 | 227 | 220 | 209 | 210 | 212 | 201 | 162 | 211 |
| 10 | 194 | 204 | 205 | 209 | 205 | 202 | 203 | 201 | 211 | 207 | 209 | 211 | 216 | 217 | 227 | 233 | 240 | 227 | 220 | 214 | 207 | 194 | 209 | 211 | 211 |
| 11 | 209 | 210 | 209 | 207 | 205 | 205 | 209 | 209 | 207 | 207 | 211 | 211 | 211 | 210 | 212 | 211 | 214 | 227 | 220 | 227 | 233 | 220 | 194 | 207 | 212 |
| 12 | 116 | 162 | 201 | 194 | 188 | 162 | 175 | 201 | 204 | 206 | 206 | 209 | 207 | 209 | 220 | 233 | 240 | 220 | 207 | 213 | 216 | 217 | 214 | 162 | 199 |
| 13 | 156 | 175 | 188 | 211 | 211 | 211 | 213 | 212 | 212 | 208 | 209 | 210 | 211 | 212 | 215 | 213 | 214 | 221 | 182 | 208 | 208 | 201 | 162 | 175 | 202 |
| 14 | 182 | 193 | 195 | 197 | 200 | 204 | 206 | 206 | 206 | 193 | 191 | 191 | 201 | 219 | 222 | 224 | 223 | 218 | 219 | 221 | 136 | 188 | 200 | 204 | 202 |
| 15 | 203 | 204 | 204 | 205 | 205 | 203 | 204 | 201 | 199 | 198 | 199 | 199 | 201 | 203 | 205 | 216 | 214 | 212 | 216 | 195 | 156 | 201 | 208 | 117 | 199 |
| 16 | 182 | 201 | 182 | 175 | 199 | 200 | 200 | 195 | 198 | 208 | 210 | 211 | 240 | 221 | 214 | 227 | 234 | 195 | 130 | 175 | 182 | 182 | 188 | 182 | 197 |
| 17 | 188 | 182 | 175 | 169 | 182 | 195 | 203 | 203 | 205 | 205 | 203 | 201 | 207 | 212 | 212 | 221 | 240 | 234 | 240 | 195 | 201 | 195 | 325 | 188 | 208 |
| 18 | 78 | 156 | 182 | 195 | 199 | 200 | 201 | 207 | 211 | 221 | 221 | 211 | 212 | 212 | 212 | 218 | 221 | 218 | 217 | 216 | 208 | 117 | 156 | 136 | 193 |
| 19 | 163 | 195 | 204 | 205 | 202 | 203 | 202 | 203 | 208 | 206 | 208 | 221 | 228 | 221 | 241 | 247 | 234 | 228 | 215 | 215 | 195 | 143 | 208 | 208 | 208 |
| 20 | 182 | 189 | 182 | 202 | 202 | 189 | 176 | 163 | 182 | 195 | 215 | 215 | 221 | 208 | 241 | 85 | 20 | 91 | 143 | 208 | 228 | 254 | 176 | 176 | 181 |
| 21 | 188 | 188 | 188 | 195 | 201 | 201 | 208 | 214 | 218 | 213 | 216 | 221 | 247 | 234 | 227 | 221 | 218 | 218 | 221 | 175 | 123 | 208 | 91 | 104 | 198 |
| 22 | 149 | 175 | 188 | 195 | 208 | 201 | 208 | 207 | 211 | 208 | 207 | 209 | 208 | 214 | 240 | 227 | 234 | 201 | 123 | 169 | 201 | 214 | 240 | 149 | 200 |
| 23 | 143 | 188 | 195 | 182 | 188 | 182 | 203 | 205 | 210 | 214 | 240 | 234 | 227 | 240 | 214 | 208 | 240 | 221 | 227 | 221 | 208 | 227 | 110 | 104 | 201 |
| 24 | 110 | 130 | 149 | 182 | 188 | 175 | 201 | 221 | 227 | 216 | 214 | 216 | 217 | 218 | 218 | 220 | 234 | 214 | 169 | 208 | 208 | 201 | 188 | 175 | 196 |
| 25 | 195 | 210 | 206 | 203 | 205 | 199 | 201 | 207 | 208 | 201 | 212 | 218 | 221 | 222 | 222 | 214 | 234 | 247 | 227 | 227 | 208 | 208 | 169 | 188 | 211 |
| 26 | 201 | 188 | 143 | 130 | 182 | 182 | 195 | 201 | 195 | 205 | 209 | 212 | 221 | 227 | 214 | 214 | 221 | 234 | 221 | 221 | 212 | 211 | 208 | 201 | 202 |
| 27 | 198 | 201 | 206 | 195 | 195 | 201 | 201 | 195 | 195 | 208 | 214 | 227 | 234 | 247 | 247 | 219 | 217 | 212 | 211 | 211 | 212 | 212 | 201 | 208 | 211 |
| 28 | 195 | 182 | 188 | 208 | 195 | 195 | 201 | 198 | 196 | 204 | 206 | 208 | 214 | 221 | 234 | 247 | 240 | 188 | 130 | 188 | 208 | 247 | 188 | 247 | 205 |
| 29 | 273 | 357 | 175 | 130 | 182 | 188 | 198 | 201 | 206 | 214 | 208 | 212 | 212 | 214 | 218 | 219 | 222 | 223 | 218 | 215 | 217 | 208 | 205 | 208 | 213 |
| 30 | 201 | 182 | 188 | 208 | 211 | 211 | 210 | 208 | 206 | 204 | 204 | 205 | 209 | 212 | 215 | 221 | 214 | 221 | 234 | 221 | 221 | 208 | 201 | 188 | 208 |
| 31 | 201 | 221 | 169 | 97 | 143 | 175 | 188 | 201 | 212 | 211 | 211 | 213 | 214 | 214 | 217 | 219 | 217 | 218 | 217 | 219 | 208 | 201 | 195 | 195 | 199 |
| Mean | 184 | 196 | 190 | 188 | 197 | 197 | 201 | 203 | 206 | 207 | 210 | 212 | 217 | 219 | 223 | 219 | 219 | 216 | 206 | 209 | 204 | 206 | 190 | 180 | 204 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

February 1987

| Day | 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 | 208 | 143 | 182 | 195 | 188 | 221 | 221 | 210 | 208 | 208 | 205 | 204 | 205 | 209 | 227 | 221 | 221 | 234 | 227 | 214 | 208 | 214 | 208 | 195 | 207 |
| 2 | 162 | 188 | 195 | 200 | 204 | 206 | 205 | 203 | 199 | 203 | 205 | 207 | 205 | 207 | 214 | 214 | 234 | 221 | 227 | 227 | 221 | 214 | 201 | 201 | 207 |
| 3 | 195 | 169 | 182 | 175 | 188 | 199 | 198 | 199 | 204 | 205 | 207 | 205 | 203 | 203 | 205 | 208 | 210 | 210 | 212 | 214 | 214 | 217 | 212 | 210 | 202 |
| 4 | 208 | 206 | 205 | 204 | 203 | 204 | 204 | 201 | 201 | 201 | 201 | 206 | 206 | 209 | 214 | 234 | 240 | 240 | 247 | 221 | 212 | 218 | 212 | 209 | 213 |
| 5 | 195 | 203 | 205 | 205 | 204 | 204 | 201 | 203 | 199 | 201 | 205 | 200 | 198 | 200 | 200 | 205 | 208 | 205 | 206 | 208 | 214 | 208 | 201 | 195 | 203 |
| 6 | 253 | 175 | 123 | 156 | 188 | 196 | 198 | 199 | 199 | 203 | 203 | 203 | 204 | 208 | 227 | 214 | 206 | 213 | 216 | 211 | 210 | 211 | 162 | 208 | 199 |
| 7 | 97 | 156 | 195 | 204 | 199 | 202 | 203 | 203 | 206 | 209 | 215 | 211 | 209 | 221 | 240 | 234 | 221 | 227 | 221 | 221 | 214 | 182 | 266 | 91 | 202 |
| 8 | 162 | 195 | 195 | 195 | 188 | 188 | 201 | 195 | 221 | 221 | 211 | 212 | 211 | 211 | 234 | 169 | 149 | 91 | 130 | 247 | 195 | 214 | 214 | 227 | 195 |
| 9 | 214 | 162 | 182 | 201 | 201 | 214 | 208 | 201 | 201 | 208 | 208 | 221 | 253 | 234 | 227 | 240 | 253 | 227 | 210 | 208 | 206 | 162 | 156 | 195 | 208 |
| 10 | 143 | 182 | 175 | 182 | 182 | 195 | 195 | 200 | 201 | 204 | 214 | 221 | 221 | 214 | 214 | 253 | 240 | 247 | 234 | 221 | 214 | 208 | 195 | 201 | 206 |
| 11 | 208 | 169 | 182 | 199 | 201 | 206 | 206 | 205 | 202 | 201 | 201 | 203 | 204 | 205 | 206 | 208 | 206 | 214 | 188 | 130 | 143 | 182 | 208 | 221 | 196 |
| 12 | 136 | 156 | 175 | 188 | 195 | 169 | 175 | 188 | 201 | 208 | 221 | 234 | 247 | 136 | 13 | 26 | 117 | 156 | 188 | 201 | 234 | 221 | 240 | 240 | 178 |
| 13 | 208 | 234 | 228 | 169 | 202 | 195 | 202 | 202 | 208 | 205 | 207 | 211 | 212 | 213 | 211 | 213 | 213 | 217 | 218 | 217 | 202 | 202 | 212 | 211 | 209 |
| 14 | 212 | 208 | 210 | 211 | 210 | 205 | 195 | 201 | 201 | 201 | 208 | 211 | 211 | 211 | 221 | 227 | 227 | 227 | 234 | 216 | 210 | 207 | 205 | 206 | 212 |
| 15 | 203 | 204 | 204 | 204 | 197 | 198 | 195 | 196 | 197 | 199 | 204 | 206 | 209 | 240 | 260 | 234 | 234 | 240 | 208 | 208 | 188 | 182 | 136 | 169 | 205 |
| 16 | 195 | 201 | 195 | 188 | 195 | 203 | 203 | 203 | 201 | 208 | 221 | 253 | 279 | 221 | 240 | 208 | 117 | 234 | 227 | 182 | 130 | 175 | 182 | 169 | 201 |
| 17 | 182 | 182 | 195 | 201 | 201 | 199 | 199 | 200 | 201 | 203 | 203 | 208 | 209 | 212 | 221 | 266 | 240 | 227 | 201 | 156 | 162 | 182 | 286 | 162 | 204 |
| 18 | 136 | 162 | 188 | 201 | 209 | 206 | 211 | 210 | 204 | 217 | 216 | 213 | 221 | 221 | 214 | 218 | 219 | 221 | 224 | 216 | 214 | 162 | 195 | 162 | 203 |
| 19 | 195 | 208 | 210 | 207 | 203 | 204 | 205 | 206 | 205 | 207 | 207 | 206 | 208 | 213 | 214 | 227 | 221 | 221 | 216 | 212 | 209 | 205 | 208 | 206 | 209 |
| 20 | 206 | 203 | 204 | 188 | 156 | 136 | 156 | 175 | 195 | 214 | 208 | 227 | 221 | 221 | 208 | 110 | 221 | 234 | 175 | 156 | 266 | 305 | 331 | 318 | 210 |
| 21 | 227 | 169 | 143 | 195 | 188 | 201 | 195 | 208 | 253 | 273 | 227 | 208 | 221 | 227 | 227 | 240 | 260 | 234 | 221 | 214 | 221 | 71 | 143 | 266 | 210 |
| 22 | 221 | 195 | 195 | 201 | 169 | 143 | 149 | 182 | 208 | 214 | 221 | 247 | 227 | 227 | 214 | 227 | 214 | 227 | 221 | 201 | 175 | 240 | 253 | 156 | 205 |
| 23 | 221 | 130 | 117 | 182 | 162 | 195 | 214 | 208 | 208 | 214 | 214 | 234 | 227 | 247 | 273 | 240 | 234 | 214 | 91 | 123 | 208 | 195 | 195 | 149 | 195 |
| 24 | 162 | 162 | 201 | 203 | 201 | 201 | 199 | 200 | 200 | 214 | 221 | 221 | 234 | 234 | 227 | 247 | 227 | 227 | 156 | -6 | 136 | 227 | 117 | 214 | 193 |
| 25 | 273 | 188 | 212 | 208 | 211 | 204 | 205 | 203 | 204 | 208 | 211 | 227 | 217 | 212 | 216 | 221 | 214 | 208 | 221 | 162 | 175 | 182 | 175 | 195 | 206 |
| 26 | 206 | 209 | 209 | 206 | 208 | 205 | 204 | 203 | 200 | 206 | 204 | 221 | 214 | 221 | 221 | 227 | 217 | 219 | 219 | 222 | 222 | 208 | 201 | 201 | 211 |
| 27 | 201 | 188 | 205 | 206 | 203 | 200 | 198 | 201 | 208 | 195 | 201 | 208 | 201 | 221 | 227 | 260 | 143 | 97 | 162 | 286 | 247 | 214 | 240 | 240 | 206 |
| 28 | 136 | 182 | 201 | 208 | 208 | 195 | 195 | 195 | 201 | 240 | 234 | 221 | 234 | 227 | 234 | 234 | 227 | 227 | 221 | 130 | 117 | 149 | 195 | 123 | 197 |
| Mean | 192 | 183 | 190 | 196 | 195 | 196 | 198 | 200 | 205 | 210 | 211 | 216 | 218 | 215 | 216 | 215 | 212 | 213 | 204 | 193 | 199 | 198 | 205 | 198 | 203 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

March 1987

| Day | 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 | 91 | 156 | 195 | 195 | 204 | 204 | 205 | 209 | 208 | 206 | 206 | 208 | 208 | 214 | 221 | 221 | 227 | 227 | 175 | 130 | 234 | 130 | 188 | 208 | 195 |
| 2 | 211 | 211 | 212 | 212 | 211 | 209 | 206 | 206 | 208 | 205 | 204 | 206 | 206 | 211 | 227 | 221 | 221 | 221 | 221 | 227 | 214 | 208 | 143 | 175 | 208 |
| 3 | 195 | 208 | 206 | 205 | 195 | 195 | 201 | 208 | 208 | 208 | 214 | 212 | 209 | 208 | 221 | 227 | 240 | 227 | 221 | 201 | 143 | 169 | 240 | 247 | 208 |
| 4 | 208 | 130 | 169 | 169 | 162 | 175 | 188 | 195 | 208 | 208 | 214 | 214 | 214 | 221 | 247 | 240 | 234 | 234 | 227 | 227 | 214 | 182 | 156 | 162 | 200 |
| 5 | 182 | 195 | 201 | 195 | 136 | 91 | 156 | 188 | 195 | 208 | 201 | 208 | 240 | 247 | 143 | 240 | 110 | 104 | 162 | 234 | 260 | 266 | 325 | 123 | 192 |
| 6 | 143 | 195 | 162 | 162 | 182 | 195 | 208 | 208 | 208 | 214 | 221 | 221 | 216 | 212 | 212 | 217 | 219 | 224 | 221 | 221 | 130 | 65 | 13 | 240 | 188 |
| 7 | 357 | 123 | 208 | 156 | 110 | 162 | 201 | 227 | 273 | 247 | 234 | 221 | 221 | 240 | 260 | 234 | 221 | 219 | 221 | 182 | 182 | 195 | 208 | 195 | 212 |
| 8 | 201 | 208 | 195 | 195 | 201 | 201 | 208 | 201 | 214 | 221 | 227 | 227 | 221 | 214 | 234 | 253 | 221 | 240 | 227 | 221 | 214 | 221 | 162 | 201 | 214 |
| 9 | 208 | 214 | 175 | 143 | 123 | 169 | 188 | 195 | 208 | 209 | 211 | 214 | 214 | 221 | 227 | 221 | 234 | 221 | 221 | 221 | 221 | 218 | 216 | 216 | 205 |
| 10 | 208 | 201 | 188 | 195 | 182 | 175 | 188 | 195 | 214 | 227 | 227 | 214 | 227 | 234 | 195 | 253 | 247 | 227 | 222 | 218 | 212 | 210 | 211 | 208 | 212 |
| 11 | 210 | 210 | 211 | 211 | 208 | 209 | 210 | 211 | 211 | 206 | 208 | 208 | 221 | 227 | 240 | 247 | 234 | 234 | 201 | 188 | 201 | 208 | 214 | 208 | 214 |
| 12 | 214 | 208 | 175 | 188 | 188 | 200 | 204 | 206 | 210 | 214 | 221 | 227 | 214 | 214 | 214 | 221 | 227 | 221 | 208 | 188 | 156 | 110 | 325 | 91 | 202 |
| 13 | 65 | 169 | 195 | 200 | 195 | 197 | 198 | 201 | 208 | 214 | 221 | 227 | 234 | 227 | 227 | 240 | 225 | 219 | 218 | 214 | 213 | 214 | 201 | 143 | 203 |
| 14 | 117 | 169 | 198 | 194 | 190 | 197 | 198 | 201 | 208 | 208 | 214 | 227 | 234 | 234 | 227 | 221 | 227 | 234 | 221 | 214 | 123 | 117 | 136 | 195 | 196 |
| 15 | 188 | 175 | 201 | 195 | 182 | 169 | 195 | 214 | 214 | 214 | 208 | 214 | 214 | 227 | 222 | 223 | 220 | 221 | 208 | 195 | 182 | 182 | 195 | 247 | 204 |
| 16 | 214 | 169 | 123 | 169 | 198 | 201 | 200 | 206 | 208 | 221 | 214 | 221 | 247 | 253 | 234 | 221 | 214 | 221 | 214 | 214 | 162 | 97 | 45 | 162 | 193 |
| 17 | 208 | 201 | 117 | 91 | 130 | 169 | 208 | 208 | 213 | 209 | 205 | 205 | 205 | 227 | 227 | 227 | 227 | 240 | 221 | 221 | 221 | 195 | 188 | 195 | 198 |
| 18 | 201 | 201 | 195 | 205 | 209 | 210 | 213 | 216 | 212 | 205 | 201 | 201 | 201 | 208 | 201 | 214 | 227 | 208 | 214 | 195 | 227 | 299 | 370 | -19 | 209 |
| 19 | 110 | 156 | 208 | 195 | 227 | 208 | 218 | 219 | 218 | 214 | 208 | 214 | 227 | 227 | 226 | 226 | 231 | 240 | 227 | 208 | 143 | 149 | 78 | 156 | 197 |
| 20 | 201 | 206 | 210 | 210 | 210 | 211 | 213 | 212 | 212 | 210 | 210 | 208 | 212 | 219 | 222 | 214 | 223 | 221 | 222 | 221 | 214 | 175 | 175 | 188 | 209 |
| 21 | 198 | 203 | 200 | 198 | 198 | 203 | 203 | 208 | 208 | 208 | 214 | 214 | 221 | 247 | 201 | 6 | -51 | 149 | 214 | 331 | 227 | 117 | 175 | 351 | 194 |
| 22 | 175 | 117 | 130 | 175 | 207 | 210 | 211 | 210 | 212 | 216 | 214 | 214 | 219 | 217 | 222 | 224 | 214 | 240 | 201 | 195 | 214 | 331 | 318 | 214 | 213 |
| 23 | 201 | 195 | 207 | 212 | 208 | 208 | 207 | 204 | 201 | 203 | 201 | 208 | 214 | 234 | 219 | 218 | 212 | 214 | 213 | 217 | 217 | 216 | 212 | 214 | 211 |
| 24 | 212 | 212 | 210 | 208 | 208 | 208 | 207 | 205 | 195 | 205 | 203 | 204 | 205 | 205 | 208 | 208 | 207 | 205 | 205 | 205 | 214 | 214 | 208 | 214 | 207 |
| 25 | 213 | 211 | 210 | 209 | 208 | 206 | 204 | 203 | 203 | 205 | 205 | 207 | 208 | 208 | 214 | 201 | 201 | 195 | 240 | 227 | 208 | 188 | 188 | 214 | 207 |
| 26 | 253 | 266 | 162 | 188 | 214 | 204 | 203 | 203 | 208 | 208 | 214 | 227 | 214 | 221 | 247 | 253 | 201 | 208 | 175 | 208 | 201 | 201 | 208 | 221 | 213 |
| 27 | 201 | 208 | 182 | 130 | 65 | 97 | 156 | 188 | 201 | 208 | 214 | 240 | 221 | 214 | 175 | 26 | 117 | 143 | 208 | 234 | 234 | 247 | 117 | 162 | 174 |
| 28 | 201 | 273 | 318 | 195 | 182 | 188 | 201 | 208 | 214 | 221 | 227 | 214 | 227 | 234 | 240 | 234 | 234 | 234 | 221 | 208 | 208 | 201 | 208 | 208 | 221 |
| 29 | 212 | 214 | 214 | 214 | 212 | 211 | 211 | 211 | 212 | 214 | 221 | 220 | 218 | 217 | 218 | 221 | 227 | 221 | 214 | 214 | 201 | 162 | 175 | 195 | 210 |
| 30 | 208 | 211 | 211 | 209 | 206 | 205 | 204 | 205 | 206 | 205 | 203 | 203 | 208 | 221 | 234 | 240 | 234 | 240 | 247 | 221 | 208 | 206 | 205 | 206 | 214 |
| 31 | 206 | 205 | 213 | 207 | 205 | 209 | 201 | 203 | 201 | 200 | 198 | 201 | 214 | 221 | 221 | 223 | 221 | 220 | 218 | 218 | 218 | 207 | 203 | 206 | 210 |
| Mean | 194 | 194 | 194 | 188 | 186 | 190 | 200 | 206 | 210 | 212 | 212 | 215 | 218 | 223 | 220 | 214 | 208 | 215 | 214 | 213 | 201 | 190 | 194 | 192 | 204 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

April 1987

| Day | 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 | 208 | 208 | 189 | 163 | 117 | 85 | 117 | 163 | 189 | 202 | 202 | 208 | 202 | 228 | 221 | 221 | 221 | 228 | 234 | 215 | 150 | 169 | 202 | 209 | 189 |
| 2 | 208 | 207 | 209 | 195 | 176 | 194 | 197 | 198 | 204 | 202 | 203 | 215 | 208 | 221 | 221 | 228 | 228 | 228 | 234 | 228 | 215 | 205 | 205 | 205 | 210 |
| 3 | 205 | 208 | 211 | 212 | 212 | 212 | 211 | 207 | 205 | 203 | 203 | 199 | 198 | 202 | 204 | 206 | 207 | 208 | 209 | 210 | 210 | 211 | 209 | 208 | 207 |
| 4 | 205 | 208 | 209 | 202 | 203 | 200 | 202 | 195 | 202 | 195 | 208 | 215 | 221 | 156 | 143 | 143 | 254 | 234 | 228 | 215 | 215 | 221 | 208 | 202 | 203 |
| 5 | 208 | 215 | 189 | 150 | 182 | 189 | 189 | 202 | 207 | 211 | 211 | 210 | 209 | 228 | 260 | 247 | 228 | 208 | 195 | 208 | 234 | 260 | 156 | 150 | 206 |
| 6 | 176 | 195 | 202 | 202 | 189 | 200 | 203 | 205 | 195 | 202 | 202 | 208 | 202 | 208 | 247 | 247 | 215 | 169 | 208 | 228 | 221 | 215 | 215 | 208 | 207 |
| 7 | 205 | 203 | 203 | 205 | 204 | 200 | 199 | 204 | 205 | 206 | 202 | 208 | 228 | 221 | 234 | 234 | 221 | 215 | 217 | 216 | 218 | 213 | 202 | 176 | 210 |
| 8 | 149 | 182 | 201 | 188 | 195 | 201 | 208 | 201 | 214 | 214 | 214 | 214 | 208 | 195 | 208 | 240 | 234 | 221 | 208 | 260 | 357 | 221 | 214 | 188 | 214 |
| 9 | 208 | 214 | 208 | 214 | 214 | 214 | 214 | 208 | 208 | 214 | 214 | 214 | 227 | 234 | 247 | 247 | 247 | 221 | 201 | 123 | 162 | 182 | 201 | 136 | 207 |
| 10 | 169 | 182 | 247 | 156 | 175 | 195 | 201 | 201 | 208 | 219 | 216 | 218 | 212 | 214 | 216 | 218 | 213 | 213 | 211 | 212 | 205 | 201 | 205 | 208 | 205 |
| 11 | 209 | 211 | 213 | 214 | 211 | 210 | 211 | 209 | 208 | 221 | 227 | 221 | 240 | 260 | 266 | 273 | 240 | 227 | 212 | 209 | 208 | 205 | 207 | 162 | 220 |
| 12 | 189 | 204 | 208 | 210 | 206 | 204 | 207 | 205 | 205 | 207 | 205 | 211 | 228 | 221 | 221 | 213 | 209 | 212 | 213 | 221 | 208 | 202 | 202 | 206 | 209 |
| 13 | 205 | 206 | 195 | 182 | 193 | 195 | 198 | 198 | 195 | 202 | 208 | 215 | 221 | 208 | 215 | 202 | 163 | 117 | 202 | 234 | 234 | 286 | 273 | 182 | 205 |
| 14 | 208 | 217 | 217 | 218 | 217 | 216 | 216 | 202 | 203 | 204 | 200 | 202 | 208 | 241 | 254 | 241 | 254 | 228 | 228 | 221 | 208 | 195 | 195 | 195 | 216 |
| 15 | 208 | 195 | 150 | 189 | 215 | 211 | 208 | 205 | 205 | 206 | 203 | 205 | 206 | 215 | 221 | 247 | 247 | 215 | 208 | 208 | 202 | 195 | 202 | 202 | 207 |
| 16 | 206 | 208 | 211 | 211 | 209 | 208 | 209 | 205 | 205 | 204 | 205 | 205 | 208 | 208 | 215 | 221 | 221 | 215 | 211 | 207 | 205 | 202 | 202 | 189 | 208 |
| 17 | 162 | 143 | 182 | 208 | 212 | 211 | 211 | 209 | 208 | 205 | 203 | 206 | 204 | 208 | 221 | 240 | 234 | 227 | 227 | 211 | 206 | 203 | 188 | 169 | 204 |
| 18 | 195 | 208 | 212 | 212 | 208 | 205 | 203 | 205 | 205 | 206 | 205 | 200 | 198 | 203 | 207 | 211 | 208 | 205 | 205 | 205 | 204 | 188 | 195 | 207 | 204 |
| 19 | 206 | 205 | 201 | 162 | 162 | 169 | 188 | 201 | 214 | 208 | 188 | 182 | 195 | 201 | 208 | 214 | 211 | 211 | 208 | 214 | 188 | 162 | 182 | 208 | 196 |
| 20 | 214 | 220 | 218 | 208 | 195 | 143 | 175 | 169 | 195 | 201 | 221 | 234 | 227 | 214 | 234 | 253 | 240 | 226 | 224 | 220 | 214 | 211 | 212 | 214 | 212 |
| 21 | 211 | 211 | 211 | 209 | 207 | 188 | 195 | 195 | 201 | 208 | 212 | 212 | 213 | 213 | 213 | 210 | 209 | 214 | 214 | 214 | 212 | 211 | 211 | 212 | 209 |
| 22 | 212 | 212 | 212 | 211 | 210 | 206 | 203 | 201 | 203 | 204 | 203 | 214 | 214 | 209 | 205 | 207 | 209 | 227 | 188 | 201 | 208 | 182 | 156 | 188 | 204 |
| 23 | 207 | 210 | 208 | 210 | 211 | 210 | 205 | 201 | 203 | 203 | 203 | 200 | 201 | 201 | 209 | 210 | 211 | 208 | 207 | 204 | 206 | 200 | 205 | 205 | 206 |
| 24 | 206 | 195 | 162 | 156 | 169 | 169 | 169 | 188 | 195 | 201 | 201 | 214 | 227 | 208 | 279 | 247 | 221 | 214 | 208 | 208 | 273 | 149 | 175 | 208 | 202 |
| 25 | 212 | 215 | 216 | 213 | 209 | 204 | 202 | 203 | 207 | 206 | 209 | 208 | 209 | 210 | 215 | 221 | 234 | 228 | 221 | 208 | 189 | 208 | 228 | 195 | 211 |
| 26 | 202 | 210 | 211 | 211 | 211 | 208 | 207 | 205 | 205 | 205 | 205 | 209 | 205 | 221 | 228 | 221 | 215 | 211 | 211 | 209 | 202 | 202 | 202 | 195 | 209 |
| 27 | 202 | 208 | 216 | 217 | 213 | 208 | 195 | 195 | 202 | 189 | 202 | 241 | 228 | 221 | 247 | 241 | 221 | 241 | 228 | 208 | 189 | 182 | 215 | 208 | 213 |
| 28 | 195 | 202 | 215 | 218 | 216 | 215 | 211 | 209 | 208 | 207 | 204 | 203 | 200 | 203 | 205 | 211 | 211 | 210 | 207 | 207 | 205 | 203 | 176 | 163 | 204 |
| 29 | 176 | 189 | 208 | 213 | 213 | 209 | 202 | 199 | 195 | 197 | 200 | 200 | 198 | 195 | 202 | 203 | 221 | 215 | 202 | 150 | 182 | 176 | 189 | 202 | 197 |
| 30 | 205 | 210 | 212 | 212 | 211 | 207 | 198 | 198 | 196 | 196 | 195 | 189 | 189 | 195 | 202 | 208 | 215 | 215 | 211 | 212 | 212 | 203 | 205 | 189 | 203 |
| Mean | 199 | 203 | 205 | 199 | 199 | 196 | 198 | 200 | 203 | 205 | 206 | 209 | 211 | 212 | 222 | 224 | 222 | 214 | 213 | 210 | 211 | 202 | 201 | 193 | 207 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

May 1987

| Day | 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 | 195 | 205 | 209 | 208 | 205 | 204 | 203 | 202 | 195 | 202 | 202 | 195 | 202 | 208 | 208 | 215 | 228 | 221 | 215 | 208 | 202 | 182 | 176 | 156 | 202 |
| 2 | 124 | 182 | 202 | 204 | 207 | 205 | 202 | 205 | 202 | 215 | 221 | 247 | 228 | 215 | 208 | 215 | 208 | 215 | 221 | 221 | 215 | 202 | 189 | 169 | 205 |
| 3 | 189 | 195 | 202 | 202 | 202 | 202 | 202 | 202 | 202 | 221 | 234 | 228 | 228 | 247 | 221 | 215 | 202 | 208 | 215 | 205 | 205 | 202 | 202 | 198 | 209 |
| 4 | 201 | 205 | 208 | 208 | 205 | 201 | 201 | 195 | 195 | 201 | 208 | 201 | 208 | 221 | 247 | 234 | 227 | 227 | 221 | 201 | 201 | 188 | 188 | 195 | 208 |
| 5 | 201 | 205 | 208 | 205 | 201 | 201 | 201 | 201 | 201 | 201 | 201 | 205 | 208 | 227 | 234 | 214 | 195 | 201 | 208 | 175 | 169 | 201 | 205 | 208 | 203 |
| 6 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 202 | 198 | 197 | 195 | 198 | 198 | 202 | 202 | 208 | 215 | 208 | 228 | 215 | 195 | 241 | 260 | 267 | 212 |
| 7 | 163 | 117 | 130 | 46 | 124 | 98 | 163 | 182 | 195 | 215 | 208 | 208 | 202 | 215 | 215 | 228 | 215 | 208 | 208 | 202 | 208 | 169 | 137 | 156 | 175 |
| 8 | 182 | 182 | 189 | 205 | 205 | 202 | 202 | 202 | 202 | 202 | 202 | 215 | 215 | 221 | 221 | 221 | 228 | 211 | 208 | 208 | 208 | 208 | 195 | 208 | 206 |
| 9 | 189 | 208 | 208 | 208 | 202 | 198 | 198 | 202 | 198 | 195 | 195 | 198 | 202 | 208 | 211 | 215 | 215 | 215 | 211 | 202 | 205 | 195 | 195 | 189 | 203 |
| 10 | 189 | 195 | 208 | 208 | 205 | 202 | 198 | 195 | 195 | 202 | 208 | 241 | 234 | 234 | 280 | 241 | 221 | 228 | 215 | 189 | 202 | 215 | 208 | 215 | 214 |
| 11 | 215 | 215 | 211 | 208 | 208 | 205 | 202 | 198 | 198 | 202 | 202 | 205 | 208 | 208 | 205 | 202 | 202 | 208 | 211 | 208 | 169 | 117 | 150 | 195 | 198 |
| 12 | 208 | 205 | 202 | 205 | 208 | 208 | 205 | 202 | 198 | 197 | 195 | 195 | 197 | 198 | 202 | 208 | 208 | 211 | 215 | 215 | 163 | 163 | 169 | 195 | 199 |
| 13 | 208 | 208 | 208 | 208 | 205 | 202 | 198 | 198 | 195 | 195 | 195 | 195 | 195 | 195 | 189 | 189 | 195 | 215 | 189 | 169 | 189 | 247 | 312 | 254 | 206 |
| 14 | 325 | 241 | 137 | 189 | 208 | 202 | 195 | 189 | 189 | 189 | 189 | 202 | 221 | 286 | 280 | 267 | 254 | 221 | 208 | 202 | 202 | 208 | 215 | 143 | 215 |
| 15 | 195 | 208 | 211 | 208 | 208 | 205 | 202 | 202 | 208 | 202 | 202 | 208 | 215 | 221 | 234 | 221 | 215 | 208 | 208 | 202 | 195 | 182 | 182 | 189 | 205 |
| 16 | 202 | 208 | 202 | 195 | 202 | 202 | 208 | 208 | 215 | 221 | 215 | 208 | 215 | 221 | 221 | 241 | 228 | 221 | 215 | 215 | 208 | 208 | 208 | 208 | 212 |
| 17 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 202 | 198 | 198 | 195 | 195 | 195 | 195 | 198 | 202 | 208 | 211 | 202 | 182 | 156 | 163 | 199 |
| 18 | 195 | 202 | 202 | 205 | 208 | 208 | 208 | 205 | 205 | 202 | 198 | 198 | 198 | 202 | 211 | 213 | 212 | 205 | 198 | 198 | 204 | 207 | 208 | 208 | 204 |
| 19 | 208 | 205 | 205 | 204 | 202 | 203 | 198 | 195 | 198 | 197 | 195 | 193 | 195 | 198 | 208 | 215 | 215 | 208 | 202 | 202 | 205 | 205 | 198 | 163 | 201 |
| 20 | 143 | 156 | 195 | 200 | 200 | 202 | 202 | 199 | 198 | 198 | 200 | 202 | 202 | 204 | 208 | 215 | 228 | 215 | 202 | 202 | 189 | 150 | 163 | 176 | 193 |
| 21 | 189 | 202 | 198 | 193 | 198 | 205 | 202 | 202 | 205 | 202 | 199 | 200 | 198 | 198 | 202 | 202 | 208 | 205 | 211 | 208 | 208 | 205 | 205 | 205 | 202 |
| 22 | 208 | 205 | 202 | 202 | 193 | 195 | 192 | 192 | 194 | 192 | 189 | 202 | 208 | 195 | 189 | 208 | 228 | 221 | 208 | 208 | 208 | 254 | 241 | 182 | 205 |
| 23 | 130 | 163 | 195 | 200 | 198 | 198 | 198 | 198 | 198 | 198 | 195 | 195 | 195 | 208 | 221 | 234 | 241 | 208 | 202 | 176 | 169 | 169 | 195 | 247 | 197 |
| 24 | 254 | 156 | 156 | 176 | 156 | 163 | 182 | 189 | 208 | 228 | 254 | 254 | 247 | 247 | 228 | 169 | 176 | 163 | 163 | 195 | 228 | 260 | 189 | 13 | 194 |
| 25 | 150 | 85 | -31 | -12 | 228 | 91 | 98 | 117 | 163 | 182 | 176 | 176 | 195 | 195 | 195 | 215 | 208 | 215 | 215 | 202 | 205 | 208 | 208 | 205 | 162 |
| 26 | 206 | 208 | 208 | 211 | 208 | 208 | 202 | 195 | 195 | 195 | 202 | 215 | 254 | 280 | 260 | 241 | 169 | 176 | 241 | 273 | 319 | 267 | 306 | 384 | 234 |
| 27 | 364 | 319 | 163 | 85 | 78 | 98 | 98 | 104 | 182 | 221 | 208 | 169 | 182 | 221 | 247 | 260 | 241 | 241 | 221 | 208 | 195 | 189 | 189 | 215 | 196 |
| 28 | 215 | 221 | 218 | 215 | 211 | 215 | 215 | 209 | 211 | 213 | 215 | 212 | 211 | 210 | 228 | 221 | 215 | 208 | 195 | 202 | 169 | 195 | 358 | 267 | 219 |
| 29 | 189 | 241 | 254 | 195 | 0 | 124 | 182 | 215 | 254 | 273 | 267 | 280 | 202 | 137 | 182 | 221 | 221 | 228 | 247 | 221 | 215 | 221 | 216 | 215 | 208 |
| 30 | 215 | 217 | 218 | 219 | 218 | 220 | 215 | 215 | 218 | 228 | 228 | 215 | 209 | 254 | 293 | 248 | 228 | 222 | 196 | 209 | 254 | 274 | 274 | 241 | 230 |
| 31 | 215 | 202 | 202 | 202 | 201 | 197 | 196 | 189 | 202 | 202 | 228 | 228 | 215 | 222 | 241 | 215 | 157 | 124 | 170 | 241 | 202 | 274 | 365 | 339 | 218 |
| Mean | 203 | 199 | 191 | 188 | 191 | 190 | 193 | 194 | 201 | 206 | 207 | 209 | 209 | 216 | 222 | 219 | 213 | 209 | 209 | 206 | 203 | 206 | 215 | 205 | 204 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

June 1987

| Day | 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 | 268 | 255 | 177 | 170 | 196 | 209 | 216 | 209 | 216 | 209 | 216 | 235 | 255 | 248 | 229 | 261 | 242 | 242 | 203 | 190 | 190 | 209 | 222 | 255 | 222 |
| 2 | 398 | 216 | 157 | 190 | 183 | 190 | 203 | 196 | 209 | 216 | 216 | 216 | 209 | 203 | 209 | 207 | 206 | 205 | 207 | 209 | 209 | 209 | 183 | 190 | 210 |
| 3 | 203 | 209 | 209 | 209 | 205 | 206 | 204 | 196 | 196 | 203 | 203 | 209 | 216 | 216 | 222 | 209 | 203 | 203 | 196 | 203 | 209 | 196 | 203 | 196 | 205 |
| 4 | 203 | 209 | 207 | 207 | 210 | 208 | 201 | 201 | 201 | 199 | 199 | 216 | 242 | 261 | 242 | 235 | 229 | 222 | 222 | 183 | 209 | 203 | 209 | 203 | 213 |
| 5 | 203 | 190 | 203 | 196 | 177 | 183 | 190 | 196 | 196 | 198 | 198 | 203 | 229 | 235 | 229 | 235 | 235 | 229 | 222 | 216 | 222 | 229 | 209 | 209 | 210 |
| 6 | 183 | 209 | 209 | 203 | 196 | 203 | 209 | 229 | | | | | | | | | | | | | | | | | 205 |
| 7 | | | | | | | | | | 216 | 229 | 222 | 222 | 255 | 274 | 229 | 222 | 209 | 151 | 196 | 222 | 183 | 203 | 255 | 219 |
| 8 | 216 | 213 | 214 | 213 | 215 | 216 | 217 | 220 | 213 | 216 | 219 | 217 | 222 | 235 | 235 | 209 | 206 | 209 | 209 | 213 | 209 | 211 | 208 | 203 | 215 |
| 9 | 203 | 214 | 212 | 216 | 209 | 201 | 201 | 203 | 199 | 195 | 196 | 199 | 199 | 203 | 208 | 210 | 214 | 216 | 219 | 216 | 210 | 203 | 196 | 190 | 205 |
| 10 | 144 | 124 | 144 | 170 | 183 | 199 | 201 | 198 | 196 | 197 | 189 | 196 | 196 | 196 | 202 | 215 | 209 | 222 | 215 | 209 | 202 | 204 | 207 | 207 | 193 |
| 11 | 196 | 195 | 200 | 198 | 193 | 188 | 188 | 195 | 208 | 214 | 188 | 214 | 234 | 201 | 201 | 214 | 221 | 234 | 227 | 208 | 208 | 195 | 201 | 208 | 205 |
| 12 | 212 | 206 | 199 | 193 | 186 | 199 | 212 | 219 | 212 | 199 | 212 | 245 | 251 | 251 | 258 | 251 | 219 | 219 | 193 | 180 | 154 | 115 | 193 | 193 | 207 |
| 13 | 206 | 180 | 167 | 180 | 180 | 206 | 206 | 206 | 206 | 219 | 219 | 225 | 232 | 238 | 238 | 238 | 245 | 232 | 219 | 212 | 206 | 219 | 199 | 167 | 210 |
| 14 | 193 | 193 | 186 | 193 | 206 | 206 | 212 | 212 | 219 | 212 | 219 | 232 | 225 | 206 | 198 | 196 | 201 | 204 | 207 | 207 | 206 | 201 | 186 | 121 | 202 |
| 15 | 160 | 199 | 210 | 216 | 216 | 215 | 212 | 212 | 211 | 208 | 199 | 199 | 199 | 199 | 205 | 199 | 206 | 238 | 232 | 225 | 219 | 212 | 212 | 212 | 209 |
| 16 | 179 | 159 | 159 | 172 | 179 | 185 | 192 | 192 | 198 | 198 | 198 | 192 | 185 | 198 | 205 | 211 | 205 | 198 | 205 | 205 | 198 | 172 | 179 | 205 | 190 |
| 17 | 198 | 185 | 146 | 192 | 203 | 206 | 207 | 207 | 203 | 203 | 206 | 205 | 211 | 244 | 231 | 231 | 218 | 208 | 201 | 201 | 198 | 199 | 218 | 192 | 205 |
| 18 | 175 | 136 | 182 | 195 | 205 | 203 | 201 | 197 | 199 | 201 | 201 | 208 | 208 | 227 | 227 | 227 | 221 | 201 | 201 | 208 | 214 | 208 | 214 | 208 | 203 |
| 19 | 264 | 101 | 101 | 134 | 147 | 160 | 192 | 212 | 231 | 257 | 173 | 205 | 231 | 251 | 244 | 218 | 209 | 205 | 204 | 205 | 199 | 244 | 218 | 244 | 202 |
| 20 | 108 | 153 | 192 | 199 | 212 | 213 | 215 | 218 | 212 | 205 | 205 | 205 | 231 | 277 | 251 | 238 | 231 | 212 | 212 | 309 | 264 | 225 | 296 | 316 | 225 |
| 21 | 134 | 167 | 199 | 206 | 219 | 219 | 215 | 215 | 215 | 217 | 212 | 212 | 206 | 212 | 219 | 238 | 232 | 219 | 180 | 219 | 212 | 199 | 193 | 167 | 205 |
| 22 | 173 | 193 | 206 | 211 | 215 | 214 | 211 | 211 | 213 | 209 | 206 | 206 | 219 | 225 | 232 | 225 | 219 | 206 | 199 | 199 | 173 | 167 | 186 | 180 | 204 |
| 23 | 172 | 178 | 185 | 191 | 198 | 201 | 203 | 203 | 202 | 201 | 200 | 200 | 198 | 202 | 198 | 204 | 211 | 217 | 217 | 185 | 146 | 159 | 172 | 191 | 193 |
| 24 | 203 | 206 | 206 | 204 | 205 | 200 | 197 | 197 | 195 | 201 | 188 | 182 | 188 | 195 | 195 | 201 | 221 | 227 | 208 | 175 | 214 | 214 | 247 | 136 | 200 |
| 25 | 157 | 183 | 183 | 196 | 202 | 201 | 202 | 200 | 190 | 183 | 190 | 203 | 203 | 209 | 229 | 222 | 216 | 209 | 170 | 170 | 209 | 326 | 326 | 333 | 213 |
| 26 | 404 | 463 | 300 | 131 | 60 | 125 | 177 | 190 | 196 | 214 | 216 | 213 | 203 | 209 | 242 | 229 | 235 | 235 | 209 | 235 | 222 | 209 | 203 | 216 | 222 |
| 27 | 187 | 194 | 205 | 204 | 206 | 206 | 204 | 202 | 204 | 205 | 220 | 252 | 246 | 213 | 207 | 200 | 207 | 200 | 200 | 200 | 187 | 197 | 197 | 197 | 206 |
| 28 | 197 | 198 | 201 | 200 | 180 | 161 | 180 | 187 | 193 | 200 | 193 | 187 | 193 | 203 | 202 | 198 | 201 | 200 | 205 | 201 | 203 | 198 | 187 | 174 | 193 |
| 29 | 161 | 177 | 180 | 178 | 180 | 183 | 185 | 180 | 185 | 183 | 185 | 187 | 180 | 188 | 190 | 185 | 188 | 213 | 193 | 193 | 200 | 187 | 193 | 89 | 182 |
| 30 | 57 | 129 | 168 | 174 | 181 | 174 | 174 | 181 | 187 | 194 | 200 | 194 | 187 | 187 | 194 | 200 | 192 | 191 | 192 | 190 | 190 | 190 | 185 | 190 | 179 |
| Mean | 198 | 194 | 190 | 191 | 191 | 196 | 201 | 203 | 204 | 206 | 203 | 210 | 214 | 220 | 221 | 219 | 216 | 215 | 204 | 206 | 204 | 203 | 208 | 202 | 205 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

July 1987

| Day | 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 | 178 | 178 | 178 | 177 | 179 | 179 | 175 | 172 | 172 | 175 | 178 | 178 | 178 | 178 | 181 | 185 | 191 | 194 | 198 | 204 | 198 | 178 | 172 | 172 | 181 |
| 2 | 178 | 181 | 184 | 187 | 191 | 194 | 191 | 191 | 187 | 187 | 184 | 184 | 184 | 184 | 187 | 197 | 204 | 204 | 204 | 197 | 165 | 171 | 165 | 165 | 186 |
| 3 | 177 | 183 | 183 | 196 | 203 | 209 | 203 | 196 | 190 | 190 | 190 | 183 | 183 | 203 | 196 | 196 | 203 | 203 | 196 | 177 | 177 | 248 | 248 | 177 | 196 |
| 4 | 216 | 144 | 157 | 190 | 190 | 190 | 190 | 183 | 183 | 193 | 196 | 199 | 196 | 196 | 203 | 206 | 212 | 229 | 209 | 190 | 170 | 164 | 118 | 138 | 186 |
| 5 | 151 | 105 | 99 | 144 | 177 | 177 | 190 | 196 | 209 | 209 | 209 | 203 | 203 | 190 | 203 | 203 | 229 | 209 | 203 | 203 | 203 | 203 | 183 | 177 | 186 |
| 6 | 164 | 183 | 190 | 196 | 196 | 196 | 200 | 203 | 203 | 203 | 203 | 203 | 203 | 229 | 235 | 248 | 229 | 209 | 203 | 203 | 203 | 196 | 131 | 190 | 201 |
| 7 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 196 | 193 | 190 | 190 | 193 | 196 | 196 | 216 | 222 | 229 | 222 | 209 | 183 | 164 | 183 | 183 | 190 | 197 |
| 8 | 195 | 195 | 195 | 188 | 188 | 201 | 195 | 195 | 208 | 208 | 214 | 227 | 227 | 253 | 279 | 260 | 253 | 234 | 221 | 208 | 214 | 227 | 214 | 208 | 217 |
| 9 | 169 | 201 | 188 | 169 | 162 | 240 | 182 | 188 | 201 | 214 | 201 | 195 | 188 | 195 | 221 | 221 | 195 | 208 | 208 | 195 | 208 | 305 | 195 | 182 | 201 |
| 10 | 175 | 247 | 188 | 104 | 97 | 136 | 162 | 175 | 169 | 175 | 208 | 214 | 247 | 240 | 286 | 247 | 227 | 234 | 214 | 188 | 175 | 195 | 201 | 201 | 196 |
| 11 | 208 | 188 | 182 | 182 | 162 | 169 | 201 | 201 | 201 | 195 | 208 | 214 | 234 | 266 | 247 | 266 | 253 | 234 | 201 | 182 | 201 | 201 | 201 | 156 | 206 |
| 12 | 149 | 188 | 195 | 188 | 175 | 175 | 188 | 195 | 208 | 214 | 240 | 227 | 214 | 253 | 221 | 195 | 195 | 201 | 208 | 214 | 214 | 253 | 221 | 188 | 205 |
| 13 | 195 | 182 | 195 | 208 | 211 | 214 | 211 | 208 | 201 | 195 | 188 | 191 | 195 | 201 | 201 | 195 | 195 | 195 | 195 | 201 | 201 | 201 | 195 | 169 | 197 |
| 14 | 169 | 162 | 175 | 201 | 214 | 214 | 195 | 195 | 195 | 195 | 195 | 198 | 198 | 201 | 208 | 211 | 214 | 217 | 221 | 221 | 217 | 201 | 208 | 240 | 203 |
| 15 | 169 | 182 | 195 | 201 | 208 | 201 | 195 | 188 | 188 | 188 | 195 | 221 | 247 | 208 | 182 | 149 | 195 | 156 | 91 | 175 | 221 | 318 | 273 | 331 | 203 |
| 16 | 455 | 240 | 221 | 143 | 84 | 201 | 208 | 214 | 227 | 240 | 221 | 208 | 201 | 214 | 208 | 240 | 201 | 117 | 162 | 195 | 201 | 234 | 234 | 175 | 210 |
| 17 | 143 | 162 | 195 | 208 | 156 | 143 | 175 | 208 | 214 | 208 | 201 | 221 | 240 | 214 | 253 | 234 | 221 | 208 | 201 | 149 | 182 | 234 | 260 | 338 | 207 |
| 18 | 254 | 137 | 163 | 169 | 176 | 182 | 195 | 215 | 215 | 208 | 208 | 215 | 234 | 247 | 215 | 234 | 241 | 208 | 202 | 202 | 130 | 150 | 176 | 189 | 198 |
| 19 | 202 | 208 | 195 | 189 | 208 | 215 | 215 | 208 | 208 | 208 | 215 | 221 | 208 | 208 | 241 | 234 | 215 | 208 | 208 | 195 | 202 | 254 | 156 | 163 | 208 |
| 20 | 190 | 183 | 190 | 209 | 183 | 183 | 196 | 209 | 216 | 216 | 209 | 203 | 203 | 222 | 229 | 209 | 229 | 229 | 216 | 222 | 203 | 222 | 144 | 125 | 202 |
| 21 | 183 | 190 | 209 | 216 | 216 | 203 | 209 | 216 | 216 | 203 | 196 | 203 | 203 | 209 | 229 | 229 | 255 | 255 | 216 | 209 | 209 | 209 | 203 | 216 | 213 |
| 22 | 183 | 163 | 183 | 196 | 189 | 209 | 202 | 209 | 215 | 202 | 196 | 189 | 215 | 215 | 209 | 202 | 215 | 228 | 222 | 196 | 144 | 170 | 235 | 196 | 199 |
| 23 | 176 | 202 | 215 | 211 | 211 | 211 | 208 | 208 | 205 | 202 | 195 | 189 | 189 | 195 | 234 | 228 | 221 | 215 | 208 | 215 | 215 | 234 | 169 | 182 | 206 |
| 24 | 195 | 208 | 208 | 208 | 204 | 201 | 201 | 204 | 208 | 208 | 201 | 195 | 195 | 208 | 201 | 208 | 188 | 175 | 123 | 169 | 227 | 227 | 182 | 286 | 201 |
| 25 | 227 | 188 | 188 | 195 | 195 | 201 | 201 | 201 | 188 | 201 | 227 | 260 | 253 | 201 | 201 | 208 | 195 | 175 | 162 | 162 | 214 | 195 | 149 | 169 | 198 |
| 26 | 182 | 188 | 195 | 201 | 208 | 221 | 221 | 221 | 214 | 208 | 204 | 201 | 201 | 204 | 208 | 211 | 208 | 208 | 208 | 208 | 208 | 208 | 208 | 211 | 206 |
| 27 | 208 | 208 | 169 | 117 | 136 | 162 | 175 | 182 | 188 | 188 | 195 | 201 | 208 | 221 | 227 | 221 | 240 | 227 | 227 | 227 | 221 | 208 | 188 | 201 | 198 |
| 28 | 204 | 201 | 198 | 201 | 201 | 204 | 208 | 208 | 208 | 201 | 221 | 253 | 286 | 273 | 162 | 156 | 227 | 214 | 201 | 175 | 305 | 286 | 331 | 364 | 229 |
| 29 | 318 | 598 | 526 | 364 | 513 | 286 | 305 | 247 | 195 | 227 | 240 | 260 | 260 | 221 | 208 | 279 | 260 | 234 | 234 | 227 | 221 | 221 | 234 | 279 | 290 |
| 30 | 292 | 312 | 318 | 130 | 175 | 201 | 208 | 208 | 214 | 221 | 227 | 240 | 260 | 266 | 234 | 253 | 234 | 221 | 221 | 214 | 227 | 221 | 273 | 396 | 240 |
| 31 | 338 | 325 | 338 | 312 | 240 | 97 | 175 | 201 | 208 | 208 | 214 | 221 | 227 | 227 | 240 | 234 | 234 | 221 | 214 | 182 | 175 | 195 | 227 | 221 | 228 |
| Mean | 208 | 207 | 207 | 193 | 195 | 194 | 199 | 201 | 201 | 203 | 205 | 210 | 215 | 217 | 218 | 219 | 220 | 209 | 200 | 196 | 200 | 216 | 202 | 213 | 206 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

August 1987

| Day | 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 | 221 | 299 | 266 | 188 | 156 | 149 | 182 | 201 | 214 | 214 | 214 | 227 | 214 | 234 | 221 | 221 | 214 | 227 | 234 | 182 | 208 | 201 | 214 | 221 | 213 |
| 2 | 234 | 201 | 188 | 188 | 208 | 214 | 221 | 227 | 221 | 210 | 206 | 208 | 227 | 227 | 221 | 214 | 214 | 221 | 214 | 214 | 221 | 213 | 208 | 208 | 214 |
| 3 | 205 | 204 | 188 | 182 | 188 | 214 | 221 | 214 | 214 | 214 | 227 | 240 | 253 | 227 | 84 | -64 | -6 | 32 | 136 | 221 | 195 | 221 | 234 | 234 | 178 |
| 4 | 215 | 202 | 195 | 208 | 208 | 208 | 215 | 208 | 202 | 215 | 215 | 215 | 221 | 221 | 234 | 260 | 241 | 221 | 189 | 208 | 234 | 280 | 267 | 293 | 224 |
| 5 | 364 | 338 | 130 | 104 | 189 | 202 | 195 | 208 | 241 | 247 | 260 | 260 | 254 | 247 | 247 | 247 | 254 | 228 | 221 | 176 | 150 | 169 | 189 | 208 | 222 |
| 6 | 220 | 217 | 215 | 219 | 202 | 189 | 202 | 209 | 206 | 210 | 210 | 228 | 248 | 235 | 248 | 287 | 261 | 228 | 222 | 202 | 157 | 183 | 215 | 209 | 218 |
| 7 | 209 | 248 | 176 | 189 | 209 | 213 | 209 | 209 | 215 | 217 | 212 | 212 | 222 | 254 | 254 | 235 | 228 | 215 | 215 | 215 | 209 | 222 | 202 | 209 | 217 |
| 8 | 189 | 202 | 202 | 176 | 183 | 176 | 170 | 183 | 196 | 202 | 215 | 235 | 241 | 254 | 267 | 267 | 274 | 248 | 222 | 222 | 235 | 300 | 300 | 397 | 231 |
| 9 | 176 | 111 | 150 | 182 | 182 | 182 | 176 | 195 | 216 | 213 | 218 | 220 | 234 | 286 | 254 | 260 | 260 | 247 | 228 | 228 | 226 | 225 | 225 | 225 | 213 |
| 10 | 222 | 206 | 214 | 212 | 217 | 220 | 222 | 217 | 214 | 212 | 202 | 202 | 202 | 209 | 215 | 209 | 215 | 222 | 202 | 202 | 209 | 202 | 196 | 202 | 210 |
| 11 | 208 | 201 | 205 | 208 | 214 | 208 | 207 | 203 | 194 | 192 | 190 | 190 | 191 | 201 | 208 | 221 | 227 | 227 | 188 | 201 | 208 | 247 | 156 | 182 | 203 |
| 12 | 286 | 188 | 123 | 149 | 156 | 188 | 201 | 201 | 208 | 208 | 201 | 188 | 201 | 234 | 149 | 162 | 227 | 221 | 182 | 143 | 156 | 240 | 318 | 338 | 203 |
| 13 | 260 | 234 | 188 | 195 | 208 | 201 | 214 | 221 | 273 | 253 | 221 | 221 | 214 | 253 | 221 | 240 | 227 | 214 | 195 | 201 | 240 | 110 | 130 | 195 | 214 |
| 14 | 149 | 260 | 175 | 149 | 162 | 123 | 182 | 188 | 208 | 201 | 195 | 188 | 234 | 234 | 227 | 201 | 221 | 221 | 201 | 162 | 175 | 227 | 331 | 208 | 201 |
| 15 | 221 | 169 | 169 | 201 | 201 | 175 | 208 | 208 | 240 | 253 | 240 | 221 | 253 | 234 | 240 | 234 | 221 | 214 | 195 | 195 | 188 | 448 | 201 | 273 | 225 |
| 16 | 195 | 247 | 130 | 175 | 143 | 175 | 208 | 221 | 221 | 221 | 234 | 221 | 247 | 240 | 273 | 253 | 227 | 221 | 214 | 195 | 156 | 143 | 162 | 182 | 204 |
| 17 | 208 | 201 | 182 | 195 | 195 | 195 | 214 | 208 | 214 | 214 | 221 | 214 | 214 | 221 | 214 | 234 | 156 | 182 | 214 | 175 | 143 | 214 | 273 | 195 | 204 |
| 18 | 175 | 201 | 201 | 175 | 175 | 188 | 195 | 208 | 214 | 221 | 210 | 206 | 205 | 208 | 214 | 221 | 227 | 221 | 227 | 208 | 195 | 156 | 188 | 208 | 202 |
| 19 | 208 | 195 | 162 | 123 | 104 | 123 | 162 | 188 | 195 | 201 | 214 | 214 | 221 | 240 | 253 | 247 | 214 | 214 | 221 | 208 | 208 | 234 | 240 | 175 | 198 |
| 20 | 221 | 175 | 182 | 195 | 182 | 208 | 201 | 214 | 208 | 201 | 208 | 201 | 221 | 253 | 253 | 221 | 214 | 208 | 214 | 208 | 201 | 175 | 201 | 188 | 206 |
| 21 | 214 | 201 | 201 | 195 | 188 | 204 | 211 | 212 | 211 | 210 | 206 | 206 | 208 | 221 | 221 | 214 | 214 | 227 | 214 | 208 | 208 | 208 | 201 | 208 | 209 |
| 22 | 211 | 210 | 209 | 204 | 206 | 205 | 211 | 208 | 201 | 195 | 195 | 195 | 208 | 208 | 221 | 227 | 234 | 221 | 188 | 260 | 201 | 201 | 201 | 208 | 209 |
| 23 | 201 | 208 | 201 | 201 | 188 | 201 | 201 | 208 | 214 | 221 | 234 | 240 | 273 | 273 | 253 | 253 | 169 | 227 | 221 | 234 | 312 | 240 | 234 | 221 | 226 |
| 24 | 214 | 208 | 214 | 175 | 188 | 221 | 211 | 208 | 208 | 201 | 208 | 221 | 266 | 286 | 292 | 247 | 221 | 195 | 136 | 156 | 201 | 214 | 214 | 234 | 214 |
| 25 | 208 | 208 | 213 | 217 | 211 | 208 | 201 | 208 | 240 | 260 | 292 | 253 | 273 | -64 | -58 | 156 | 19 | -12 | 78 | 195 | 312 | 403 | 383 | 338 | 197 |
| 26 | 396 | 481 | 266 | 58 | 305 | 149 | 123 | 169 | 195 | 221 | 214 | 208 | 201 | 234 | 169 | 214 | 188 | 162 | 136 | 247 | 188 | 214 | 260 | 279 | 220 |
| 27 | 286 | 351 | 188 | 214 | 214 | 214 | 208 | 188 | 201 | 227 | 214 | 221 | 227 | 227 | 208 | 123 | -6 | 130 | 136 | 195 | 182 | 214 | 227 | 227 | 201 |
| 28 | 214 | 214 | 221 | 214 | 195 | 211 | 217 | 217 | 221 | 214 | 227 | 247 | 273 | 240 | 253 | 234 | 221 | 221 | 182 | 299 | 448 | 383 | 513 | 416 | 262 |
| 29 | 273 | 221 | 208 | 214 | 227 | 221 | 214 | 214 | 221 | 227 | 227 | 221 | 214 | 208 | 221 | 214 | 221 | 156 | 162 | 253 | 240 | 227 | 260 | 253 | 222 |
| 30 | 299 | 221 | 234 | 227 | 227 | 214 | 221 | 234 | 227 | 234 | 208 | 208 | 227 | 227 | 214 | 240 | 175 | 182 | 214 | 227 | 286 | 351 | 195 | 162 | 227 |
| 31 | 266 | 234 | 195 | 195 | 169 | 195 | 195 | 234 | 260 | 227 | 227 | 247 | 214 | 162 | 117 | 71 | 78 | 130 | 143 | 201 | 227 | 305 | 390 | 383 | 211 |
| Mean | 231 | 228 | 193 | 185 | 194 | 193 | 200 | 207 | 216 | 218 | 218 | 219 | 229 | 224 | 213 | 212 | 195 | 196 | 192 | 208 | 217 | 238 | 243 | 241 | 213 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

September 1987

| Day | 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 | 455 | 578 | 286 | 78 | 78 | 149 | 169 | 156 | 188 | 208 | 214 | 221 | 97 | 188 | 143 | 71 | 169 | 175 | 175 | 201 | 247 | 429 | 175 | 123 | 207 |
| 2 | 318 | 155 | 155 | 181 | 188 | 188 | 214 | 240 | 259 | 233 | 227 | 233 | 253 | 272 | 253 | 233 | 240 | 227 | 175 | 136 | 149 | 168 | 201 | 214 | 213 |
| 3 | 215 | 222 | 222 | 220 | 214 | 214 | 209 | 211 | 209 | 209 | 207 | 220 | 214 | 220 | 220 | 224 | 222 | 219 | 214 | 214 | 215 | 218 | 207 | 201 | 215 |
| 4 | 206 | 203 | 203 | 194 | 181 | 194 | 201 | 201 | 207 | 207 | 207 | 227 | 233 | 246 | 259 | 253 | 194 | 253 | 233 | 214 | 253 | 253 | 227 | 279 | 222 |
| 5 | 162 | 162 | 195 | 195 | 195 | 208 | 214 | 221 | 227 | 227 | 234 | 253 | 260 | 253 | 234 | 230 | 229 | 224 | 227 | 208 | 201 | 201 | 260 | 318 | 222 |
| 6 | 286 | 292 | 214 | 143 | 182 | 195 | 197 | 202 | 201 | 195 | 208 | 247 | 240 | 214 | 221 | 221 | 221 | 201 | 143 | 175 | 175 | 175 | 208 | 195 | 206 |
| 7 | 201 | 208 | 219 | 217 | 219 | 214 | 208 | 201 | 195 | 201 | 201 | 201 | 221 | 266 | 253 | 279 | 247 | 234 | 214 | 214 | 208 | 208 | 260 | 338 | 226 |
| 8 | 201 | 123 | 175 | 195 | 195 | 201 | 201 | 208 | 214 | 221 | 227 | 240 | 247 | 234 | 234 | 227 | 221 | 227 | 227 | 221 | 221 | 253 | 169 | 182 | 211 |
| 9 | 201 | 208 | 188 | 195 | 201 | 201 | 208 | 214 | 221 | 214 | 201 | 208 | 227 | 227 | 234 | 234 | 227 | 221 | 214 | 221 | 221 | 175 | 188 | 162 | 209 |
| 10 | 175 | 201 | 213 | 216 | 218 | 217 | 210 | 210 | 208 | 208 | 208 | 195 | 195 | 214 | 13 | -19 | 227 | 234 | 214 | 188 | 370 | 676 | 513 | 552 | 244 |
| 11 | 643 | 435 | 221 | 208 | 169 | 208 | 221 | 227 | 234 | 201 | 227 | 221 | 214 | 247 | 234 | 240 | 182 | 175 | 149 | 338 | 344 | 370 | 273 | 253 | 260 |
| 12 | 247 | 234 | 214 | 214 | 188 | 208 | 201 | 227 | 234 | 240 | 234 | 227 | 227 | 227 | 214 | 227 | 227 | 208 | 208 | 416 | 234 | 331 | 383 | 221 | 241 |
| 13 | 409 | 325 | 117 | 71 | 188 | 195 | 214 | 227 | 227 | 227 | 214 | 214 | 214 | 253 | 110 | 143 | 201 | 266 | 240 | 234 | 234 | 344 | 435 | 591 | 246 |
| 14 | 468 | 448 | 240 | 266 | 117 | 188 | 221 | 227 | 221 | 214 | 221 | 227 | 240 | 221 | 247 | 234 | 240 | 227 | 195 | 266 | 403 | 97 | 188 | 221 | 243 |
| 15 | 286 | 266 | 156 | 175 | 208 | 195 | 221 | 221 | 234 | 247 | 227 | 234 | 247 | 253 | 247 | 221 | 130 | 195 | 182 | 286 | 208 | 266 | 611 | 494 | 250 |
| 16 | 377 | 325 | 195 | 195 | 208 | 214 | 214 | 214 | 227 | 227 | 253 | 247 | 227 | 247 | 253 | 234 | 227 | 227 | 214 | 201 | 234 | 403 | 416 | 240 | 251 |
| 17 | 175 | 188 | 175 | 195 | 195 | 175 | 201 | 201 | 214 | 234 | 221 | 221 | 221 | 260 | 240 | 214 | 208 | 195 | 156 | 195 | 247 | 370 | 273 | 331 | 221 |
| 18 | 221 | 208 | 208 | 208 | 214 | 214 | 214 | 214 | 221 | 221 | 221 | 227 | 227 | 227 | 240 | 253 | 234 | 240 | 221 | 221 | 227 | 201 | 201 | 182 | 219 |
| 19 | 195 | 208 | 211 | 213 | 217 | 217 | 221 | 219 | 217 | 213 | 214 | 223 | 224 | 223 | 234 | 240 | 234 | 234 | 221 | 217 | 214 | 214 | 214 | 216 | 219 |
| 20 | 216 | 217 | 217 | 217 | 214 | 214 | 217 | 219 | 214 | 208 | 208 | 214 | 227 | 273 | 286 | 253 | 247 | 208 | 273 | 162 | 156 | 214 | 201 | 227 | 221 |
| 21 | 234 | 221 | 214 | 169 | 188 | 208 | 214 | 214 | 208 | 208 | 208 | 208 | 208 | 260 | 266 | 240 | 227 | 227 | 214 | 188 | 175 | 227 | 221 | 214 | 215 |
| 22 | 227 | 305 | 149 | 97 | 130 | 117 | 143 | 182 | 201 | 208 | 221 | 208 | 221 | 214 | 221 | 208 | 169 | 169 | 227 | 188 | 208 | 325 | 481 | 676 | 229 |
| 23 | 481 | 351 | 208 | 130 | 169 | 175 | 195 | 221 | 227 | 221 | 214 | 221 | 227 | 247 | 260 | 253 | 247 | 234 | 221 | 214 | 208 | 195 | 208 | 217 | 231 |
| 24 | 221 | 222 | 208 | 156 | 58 | 136 | 169 | 188 | 195 | 195 | 201 | 208 | 208 | 214 | 221 | 227 | 234 | 221 | 214 | 195 | 182 | 201 | 182 | 156 | 192 |
| 25 | 162 | 182 | 182 | 149 | 156 | 149 | 162 | 188 | 214 | 247 | 247 | 221 | 201 | 214 | 13 | -318 | 13 | 175 | 214 | 227 | 396 | 318 | 357 | 435 | 188 |
| 26 | 188 | 188 | 214 | 221 | 208 | 188 | 234 | 253 | 253 | 273 | 234 | 221 | 227 | 234 | 247 | 240 | 240 | 201 | 175 | 175 | 214 | 227 | 214 | 227 | 221 |
| 27 | 234 | 214 | 213 | 215 | 215 | 214 | 212 | 213 | 214 | 201 | 214 | 201 | 208 | 214 | 240 | 234 | 208 | 169 | 182 | 221 | 227 | 266 | 240 | 234 | 217 |
| 28 | 448 | 201 | 97 | 123 | 169 | 201 | 214 | 214 | 208 | 221 | 227 | 253 | 273 | 247 | 227 | 227 | 247 | 208 | 162 | 377 | 292 | 221 | 325 | 331 | 238 |
| 29 | 240 | 292 | 221 | 240 | 188 | 214 | 221 | 227 | 227 | 234 | 247 | 240 | 273 | 253 | 52 | 117 | 156 | 149 | 253 | 253 | 260 | 435 | 520 | 266 | 241 |
| 30 | 253 | 435 | 143 | 78 | 26 | 149 | 201 | 273 | 266 | 240 | 208 | 260 | 247 | 240 | 234 | 149 | 110 | 221 | 175 | 266 | 247 | 266 | 221 | 266 | 215 |
| Mean | 278 | 261 | 196 | 179 | 176 | 192 | 205 | 214 | 219 | 220 | 220 | 225 | 225 | 237 | 212 | 193 | 206 | 212 | 204 | 228 | 239 | 275 | 286 | 285 | 224 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

October 1987

| Day | 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 | 300 | 163 | 170 | 189 | 209 | 215 | 215 | 235 | 241 | 241 | 241 | 248 | 241 | 254 | 261 | 261 | 241 | 183 | 189 | 196 | 267 | 215 | 235 | 248 | 227 |
| 2 | 209 | 176 | 183 | 124 | 144 | 183 | 209 | 222 | 228 | 235 | 235 | 261 | 254 | 242 | 241 | 241 | 240 | 228 | 222 | 209 | 228 | 222 | 222 | 215 | 215 |
| 3 | 220 | 219 | 218 | 213 | 209 | 207 | 202 | 222 | 235 | 235 | 261 | 254 | 170 | -154 | -24 | -109 | -187 | 79 | 170 | 644 | 397 | 280 | 261 | 339 | 190 |
| 4 | 274 | 261 | 235 | 183 | 157 | 189 | 209 | 228 | 228 | 241 | 235 | 254 | 248 | 280 | 248 | 261 | 274 | 280 | 248 | 235 | 235 | 228 | 248 | 222 | 237 |
| 5 | 209 | 224 | 224 | 222 | 218 | 222 | 222 | 215 | 215 | 222 | 228 | 241 | 254 | 248 | 261 | 261 | 254 | 241 | 235 | 241 | 215 | 235 | 196 | 196 | 229 |
| 6 | 218 | 223 | 222 | 218 | 217 | 215 | 215 | 214 | 213 | 209 | 216 | 218 | 217 | 215 | 216 | 219 | 224 | 225 | 228 | 209 | 144 | 189 | 137 | 150 | 207 |
| 7 | 189 | 204 | 207 | 212 | 213 | 212 | 210 | 207 | 207 | 210 | 212 | 228 | 235 | 228 | 267 | 235 | 235 | 235 | 226 | 226 | 224 | 202 | 209 | 215 | 219 |
| 8 | 215 | 189 | 183 | 170 | 202 | 209 | 213 | 214 | 212 | 222 | 215 | 222 | 228 | 222 | 228 | 235 | 235 | 241 | 215 | 241 | 228 | 228 | 226 | 220 | 217 |
| 9 | 220 | 223 | 222 | 222 | 222 | 222 | 222 | 220 | 218 | 214 | 213 | 213 | 214 | 217 | 218 | 218 | 220 | 220 | 225 | 215 | 202 | 254 | 274 | 267 | 224 |
| 10 | 261 | 306 | 176 | 202 | 222 | 215 | 222 | 222 | 226 | 228 | 225 | 220 | 220 | 223 | 220 | 220 | 222 | 215 | 176 | 209 | 235 | 228 | 222 | 228 | 223 |
| 11 | 209 | 222 | 196 | 170 | 183 | 189 | 183 | 189 | 209 | 202 | 209 | 209 | 215 | 215 | 196 | 53 | -161 | 40 | 157 | 274 | 196 | 209 | 222 | 241 | 176 |
| 12 | 222 | 228 | 222 | 223 | 220 | 219 | 220 | 218 | 218 | 218 | 219 | 220 | 220 | 218 | 222 | 267 | 235 | 228 | 209 | 209 | 222 | 228 | 215 | 261 | 224 |
| 13 | 287 | 267 | 170 | 163 | 196 | 196 | 215 | 215 | 215 | 222 | 228 | 209 | 228 | 209 | 222 | 196 | 176 | 144 | 72 | 183 | 215 | 170 | 306 | 462 | 215 |
| 14 | 469 | 267 | 274 | 196 | 163 | 189 | 215 | 254 | 267 | 241 | 235 | 241 | 228 | 209 | 248 | 118 | 111 | 105 | 137 | 287 | 332 | 261 | 319 | 306 | 236 |
| 15 | 228 | 209 | 202 | 170 | 137 | 176 | 170 | 202 | 228 | 235 | 235 | 235 | 228 | 235 | 241 | 183 | 189 | 176 | 124 | 176 | 163 | 144 | 176 | 209 | 195 |
| 16 | 215 | 215 | 209 | 222 | 183 | 189 | 202 | 228 | 222 | 228 | 228 | 228 | 235 | 241 | 267 | 228 | 170 | 228 | 183 | 228 | 163 | 137 | 124 | 163 | 206 |
| 17 | 196 | 215 | 223 | 220 | 220 | 214 | 210 | 210 | 213 | 222 | 235 | 228 | 241 | 202 | 163 | 209 | 209 | 157 | 157 | 202 | 254 | 131 | 202 | 144 | 203 |
| 18 | 163 | 202 | 228 | 226 | 226 | 224 | 220 | 219 | 223 | 222 | 228 | 228 | 235 | 235 | 228 | 228 | 235 | 228 | 225 | 224 | 215 | 202 | 209 | 209 | 220 |
| 19 | 205 | 205 | 205 | 212 | 215 | 224 | 224 | 222 | 222 | 215 | 222 | 222 | 235 | 254 | 228 | 248 | 267 | 241 | 235 | 228 | 241 | 222 | 215 | 189 | 225 |
| 20 | 163 | 202 | 218 | 217 | 216 | 215 | 216 | 215 | 213 | 215 | 220 | 220 | 224 | 235 | 254 | 280 | 248 | 189 | 209 | 163 | 209 | 274 | 274 | 228 | 221 |
| 21 | 254 | 313 | 157 | 144 | 124 | 131 | 170 | 189 | 196 | 215 | 222 | 222 | 235 | 261 | 261 | 228 | 131 | 79 | 137 | 241 | 228 | 196 | 202 | 222 | 198 |
| 22 | 228 | 224 | 218 | 219 | 217 | 218 | 217 | 215 | 215 | 216 | 218 | 222 | 220 | 225 | 228 | 224 | 222 | 222 | 223 | 220 | 209 | 209 | 215 | 261 | 221 |
| 23 | 274 | 150 | 111 | 111 | 170 | 176 | 202 | 222 | 241 | 241 | 241 | 222 | 222 | 248 | 274 | 254 | 183 | 254 | 241 | 235 | 215 | 222 | 196 | 215 | 213 |
| 24 | 215 | 215 | 208 | 182 | 189 | 195 | 208 | 208 | 215 | 228 | 234 | 241 | 228 | 221 | 260 | 202 | 267 | 130 | 137 | 247 | 481 | 403 | 286 | 299 | 238 |
| 25 | 514 | 449 | 234 | 137 | 169 | 117 | 143 | 202 | 228 | 228 | 202 | 228 | 234 | 234 | 254 | 234 | 241 | 234 | 189 | 195 | 325 | 319 | 260 | 130 | 238 |
| 26 | 189 | 196 | 202 | 215 | 209 | 209 | 222 | 228 | 248 | 241 | 222 | 222 | 228 | 241 | 228 | 228 | 235 | 209 | 215 | 222 | 228 | 209 | 189 | 124 | 215 |
| 27 | 118 | 170 | 248 | 53 | 14 | 72 | 137 | 202 | 222 | 189 | 222 | 222 | 196 | 228 | 215 | 79 | 27 | 118 | 267 | 397 | 319 | 449 | 449 | 462 | 211 |
| 28 | 456 | -11 | 72 | 157 | 170 | 144 | 170 | 215 | 235 | 222 | 254 | 241 | 235 | 235 | 176 | 157 | 27 | 46 | 131 | 267 | 267 | 241 | 215 | 293 | 192 |
| 29 | 332 | 189 | 163 | 157 | 189 | 222 | 228 | 248 | 261 | 241 | 267 | 261 | 241 | 241 | 235 | 228 | 248 | 215 | 157 | 241 | 202 | 235 | 241 | 417 | 236 |
| 30 | 267 | 222 | 176 | 202 | 189 | 202 | 228 | 235 | 241 | 261 | 261 | 261 | 241 | 248 | 241 | 228 | 235 | 241 | 241 | 235 | 209 | 189 | 157 | 150 | 223 |
| 31 | 143 | 143 | 195 | 215 | 215 | 202 | 202 | 202 | 228 | 247 | 247 | 241 | 241 | 234 | 254 | 267 | 260 | 234 | 221 | 169 | 293 | 234 | 234 | 247 | 224 |
| Mean | 247 | 215 | 199 | 186 | 188 | 194 | 205 | 217 | 225 | 226 | 230 | 232 | 229 | 221 | 227 | 206 | 184 | 189 | 193 | 241 | 244 | 231 | 230 | 243 | 217 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

November 1987

| Day | 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 | 234 | 221 | 208 | 189 | 176 | 182 | 195 | 208 | 215 | 241 | 241 | 247 | 241 | 254 | 267 | 273 | 241 | 234 | 202 | 221 | 228 | 221 | 228 | 228 | 225 |
| 2 | 221 | 202 | 156 | 137 | 150 | 163 | 182 | 208 | 228 | 228 | 234 | 234 | 254 | 260 | 247 | 202 | 39 | 65 | 293 | 319 | 384 | 351 | 241 | 260 | 219 |
| 3 | 299 | 280 | 267 | 195 | 221 | 208 | 221 | 234 | 228 | 221 | 215 | 221 | 228 | 267 | 260 | 254 | 195 | 169 | 306 | 195 | 228 | 351 | 260 | 247 | 241 |
| 4 | 195 | 169 | 241 | 234 | 221 | 221 | 221 | 228 | 234 | 230 | 231 | 231 | 228 | 221 | 228 | 234 | 241 | 234 | 234 | 208 | 189 | 189 | 228 | 202 | 221 |
| 5 | 182 | 182 | 221 | 228 | 228 | 224 | 223 | 221 | 221 | 215 | 215 | 221 | 225 | 226 | 225 | 228 | 189 | 215 | 176 | 72 | 208 | 286 | 117 | 176 | 205 |
| 6 | 182 | 163 | 176 | 215 | 163 | 143 | 182 | 215 | 228 | 221 | 221 | 228 | 228 | 215 | 254 | 247 | 234 | 228 | 215 | 208 | 228 | 221 | 189 | 215 | 209 |
| 7 | 241 | 228 | 228 | 221 | 218 | 218 | 218 | 215 | 217 | 215 | 216 | 218 | 217 | 217 | 219 | 219 | 222 | 221 | 221 | 220 | 219 | 219 | 218 | 218 | 220 |
| 8 | 217 | 217 | 216 | 216 | 218 | 217 | 213 | 218 | 221 | 219 | 219 | 219 | 218 | 218 | 221 | 228 | 234 | 241 | 234 | 234 | 228 | 228 | 217 | 217 | 222 |
| 9 | 216 | 219 | 218 | 217 | 217 | 215 | 213 | 212 | 215 | 208 | 208 | 208 | 215 | 234 | 241 | 267 | 254 | 247 | 221 | 163 | 208 | 228 | 306 | 169 | 222 |
| 10 | 338 | 208 | 156 | 202 | 208 | 189 | 189 | 221 | 234 | 221 | 228 | 241 | 234 | 234 | 241 | 228 | 247 | 234 | 234 | 221 | 215 | 234 | 254 | 215 | 226 |
| 11 | 215 | 215 | 208 | 189 | 169 | 176 | 156 | 189 | 208 | 228 | 228 | 234 | 234 | 221 | 221 | 241 | 234 | 228 | 215 | 221 | 267 | 299 | 182 | 59 | 210 |
| 12 | 182 | 306 | 202 | 169 | 208 | 215 | 208 | 215 | 221 | 234 | 234 | 228 | 221 | 221 | 221 | 241 | 247 | 241 | 247 | 176 | 137 | 208 | 325 | 215 | 222 |
| 13 | 117 | 241 | 260 | 156 | 117 | 182 | 202 | 221 | 241 | 247 | 260 | 247 | 267 | 228 | 163 | 202 | 156 | 104 | 208 | 208 | 169 | 182 | 267 | 221 | 203 |
| 14 | 124 | 156 | 182 | 195 | 195 | 169 | 176 | 202 | 221 | 241 | 254 | 254 | 267 | 234 | 215 | 221 | 195 | 98 | 130 | 208 | 221 | 163 | 195 | 150 | 195 |
| 15 | 189 | 267 | 111 | 163 | 182 | 189 | 208 | 221 | 221 | 228 | 228 | 241 | 234 | 228 | 241 | 254 | 241 | 202 | 124 | 78 | 78 | 169 | 195 | 202 | 196 |
| 16 | 208 | 208 | 208 | 189 | 202 | 215 | 228 | 215 | 215 | 218 | 218 | 221 | 221 | 222 | 224 | 247 | 228 | 221 | 234 | 234 | 228 | 215 | 208 | 208 | 218 |
| 17 | 216 | 218 | 221 | 222 | 226 | 222 | 220 | 218 | 215 | 215 | 216 | 217 | 219 | 219 | 214 | 220 | 220 | 221 | 222 | 224 | 224 | 208 | 208 | 215 | 218 |
| 18 | 221 | 219 | 218 | 211 | 216 | 218 | 219 | 218 | 219 | 221 | 222 | 219 | 219 | 221 | 221 | 221 | 221 | 222 | 227 | 201 | 201 | 208 | 234 | 214 | 218 |
| 19 | 169 | 195 | 215 | 208 | 195 | 169 | 176 | 208 | 221 | 234 | 247 | 241 | 234 | 234 | 260 | 234 | 182 | 215 | 221 | 176 | 215 | 215 | 228 | 195 | 212 |
| 20 | 208 | 189 | 156 | 163 | 169 | 176 | 189 | 208 | 221 | 234 | 228 | 221 | 221 | 228 | 247 | 267 | 234 | 195 | 169 | 137 | 182 | 221 | 241 | 241 | 206 |
| 21 | 215 | 163 | 189 | 189 | 189 | 208 | 221 | 215 | 228 | 228 | 228 | 227 | 225 | 223 | 223 | 225 | 226 | 227 | 228 | 221 | 215 | 215 | 215 | 215 | 215 |
| 22 | 189 | 176 | 189 | 176 | 189 | 195 | 202 | 208 | 215 | 228 | 228 | 228 | 221 | 221 | 228 | 254 | 247 | 247 | 228 | 195 | 221 | 234 | 189 | 189 | 212 |
| 23 | 176 | 195 | 202 | 182 | 156 | 163 | 182 | 215 | 215 | 293 | 293 | 241 | 98 | 221 | 247 | 221 | 234 | 189 | 332 | 98 | 189 | 312 | 377 | 449 | 228 |
| 24 | 293 | 98 | 98 | 143 | 163 | 182 | 215 | 234 | 247 | 241 | 189 | 221 | 195 | 163 | 111 | 111 | 156 | 182 | 182 | 202 | 182 | 163 | 221 | 312 | 188 |
| 25 | 221 | 189 | 195 | 189 | 208 | 208 | 208 | 228 | 234 | 228 | 228 | 228 | 234 | 241 | 169 | 221 | 241 | 215 | 189 | 143 | 182 | 182 | 176 | 215 | 207 |
| 26 | 215 | 228 | 182 | 150 | 163 | 182 | 202 | 221 | 228 | 234 | 189 | 234 | 247 | 241 | 273 | 280 | 267 | 169 | 234 | 247 | 221 | 202 | 176 | 319 | 221 |
| 27 | 163 | 72 | 208 | 130 | 46 | 72 | 150 | 228 | 247 | 228 | 221 | 215 | 215 | 241 | 195 | 228 | 163 | 150 | 195 | 221 | 215 | 150 | 202 | 215 | 182 |
| 28 | 208 | 208 | 202 | 189 | 163 | 156 | 182 | 202 | 215 | 221 | 241 | 254 | 247 | 247 | 247 | 241 | 234 | 228 | 189 | 195 | 241 | 234 | 234 | 215 | 217 |
| 29 | 195 | 215 | 217 | 217 | 216 | 216 | 217 | 220 | 220 | 218 | 220 | 220 | 221 | 220 | 220 | 220 | 217 | 218 | 220 | 221 | 221 | 221 | 221 | 221 | 218 |
| 30 | 221 | 221 | 220 | 220 | 217 | 217 | 218 | 216 | 215 | 214 | 214 | 214 | 215 | 214 | 214 | 214 | 215 | 214 | 218 | 221 | 234 | 234 | 228 | 221 | 219 |
| Mean | 209 | 202 | 199 | 190 | 187 | 190 | 201 | 216 | 224 | 228 | 227 | 229 | 225 | 228 | 225 | 231 | 215 | 203 | 218 | 196 | 213 | 226 | 226 | 221 | 214 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

December 1987

| Day | 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 | 221 | 202 | 213 | 210 | 212 | 212 | 210 | 210 | 208 | 208 | 208 | 215 | 215 | 228 | 247 | 254 | 241 | 234 | 221 | 195 | 228 | 228 | 221 | 215 | 219 |
| 2 | 208 | 218 | 219 | 217 | 215 | 214 | 212 | 213 | 212 | 212 | 212 | 213 | 214 | 215 | 213 | 218 | 215 | 215 | 212 | 214 | 219 | 218 | 217 | 208 | 214 |
| 3 | 163 | 176 | 195 | 228 | 195 | 195 | 208 | 202 | 215 | 214 | 213 | 214 | 223 | 219 | 223 | 65 | 169 | 254 | 241 | 189 | 176 | 215 | 208 | 85 | 195 |
| 4 | 169 | 202 | 219 | 218 | 218 | 217 | 210 | 208 | 208 | 206 | 206 | 210 | 212 | 215 | 221 | 221 | 228 | 215 | 234 | 195 | 182 | 189 | 280 | 273 | 215 |
| 5 | 351 | 143 | 163 | 182 | 202 | 195 | 208 | 228 | 254 | 221 | 215 | 208 | 215 | 228 | 234 | 215 | 221 | 195 | 156 | 124 | 221 | 234 | 221 | 221 | 211 |
| 6 | 212 | 210 | 213 | 202 | 195 | 202 | 208 | 215 | 215 | 221 | 218 | 217 | 219 | 221 | 234 | 254 | 228 | 241 | 234 | 208 | 202 | 247 | 215 | 189 | 218 |
| 7 | 215 | 214 | 215 | 216 | 215 | 215 | 212 | 215 | 210 | 212 | 214 | 215 | 218 | 219 | 228 | 234 | 228 | 234 | 228 | 189 | 182 | 215 | 223 | 223 | 216 |
| 8 | 224 | 221 | 217 | 216 | 215 | 215 | 215 | 213 | 210 | 210 | 210 | 210 | 210 | 210 | 213 | 218 | 219 | 218 | 218 | 221 | 213 | 208 | 202 | 202 | 214 |
| 9 | 203 | 206 | 210 | 210 | 208 | 210 | 212 | 210 | 210 | 208 | 208 | 210 | 208 | 210 | 212 | 215 | 216 | 215 | 216 | 221 | 202 | 169 | 189 | 176 | 206 |
| 10 | 195 | 221 | 234 | 202 | 208 | 207 | 208 | 207 | 205 | 208 | 215 | 228 | 221 | 221 | 137 | 20 | 189 | 72 | 143 | 156 | 104 | 189 | 156 | 221 | 182 |
| 11 | 306 | 351 | 208 | 176 | 208 | 215 | 223 | 224 | 223 | 221 | 223 | 225 | 221 | 219 | 241 | 260 | 241 | 221 | 150 | 156 | 208 | 221 | 254 | 273 | 228 |
| 12 | 169 | 163 | 189 | 208 | 208 | 208 | 195 | 202 | 208 | 208 | 221 | 228 | 221 | 228 | 241 | 234 | 247 | 241 | 228 | 208 | 208 | 202 | 218 | 220 | 213 |
| 13 | 213 | 213 | 217 | 216 | 215 | 215 | 215 | 213 | 215 | 220 | 220 | 221 | 221 | 223 | 228 | 234 | 234 | 215 | 221 | 228 | 234 | 208 | 208 | 215 | 219 |
| 14 | 215 | 211 | 213 | 210 | 207 | 210 | 213 | 213 | 217 | 218 | 218 | 217 | 217 | 223 | 223 | 221 | 222 | 228 | 234 | 215 | 208 | 130 | 195 | 221 | 213 |
| 15 | 224 | 221 | 217 | 213 | 213 | 211 | 211 | 208 | 208 | 205 | 206 | 207 | 210 | 215 | 228 | 65 | 65 | 241 | 234 | 182 | 156 | 234 | 286 | 345 | 209 |
| 16 | 325 | 156 | 319 | 156 | 111 | 150 | 215 | 215 | 228 | 241 | 234 | 228 | 221 | 215 | 228 | 156 | 137 | 137 | 124 | 91 | 176 | 286 | 332 | 390 | 211 |
| 17 | 202 | 208 | 221 | 234 | 208 | 221 | 234 | 228 | 228 | 228 | 234 | 241 | 215 | 182 | 228 | 208 | 215 | 241 | 234 | 137 | 117 | 182 | 228 | 306 | 216 |
| 18 | 215 | 202 | 202 | 215 | 247 | 228 | 228 | 228 | 234 | 241 | 232 | 236 | 237 | 234 | 228 | 230 | 229 | 229 | 234 | 221 | 208 | 202 | 176 | 189 | 222 |
| 19 | 208 | 221 | 221 | 214 | 210 | 212 | 210 | 215 | 225 | 225 | 225 | 247 | 260 | 254 | 247 | 260 | 241 | 247 | 228 | 260 | 221 | 202 | 202 | 150 | 225 |
| 20 | 189 | 217 | 212 | 213 | 215 | 215 | 213 | 213 | 217 | 222 | 226 | 229 | 226 | 229 | 260 | 241 | 241 | 247 | 247 | 241 | 228 | 223 | 218 | 221 | 225 |
| 21 | 221 | 218 | 219 | 213 | 189 | 176 | 195 | 202 | 208 | 217 | 216 | 222 | 241 | 267 | 247 | 150 | 26 | 39 | 91 | 189 | 195 | 228 | 299 | 325 | 200 |
| 22 | 442 | 267 | 208 | 189 | 176 | 189 | 228 | 221 | 228 | 228 | 234 | 234 | 260 | 254 | 254 | 260 | 247 | 195 | 221 | 176 | 306 | 104 | 117 | 195 | 226 |
| 23 | 247 | 169 | 163 | 182 | 189 | 195 | 202 | 208 | 228 | 234 | 241 | 247 | 254 | 254 | 267 | 247 | 234 | 195 | 247 | 247 | 234 | 215 | 228 | 221 | 223 |
| 24 | 221 | 215 | 195 | 195 | 215 | 208 | 215 | 228 | 228 | 234 | 228 | 234 | 254 | 260 | 260 | 280 | 273 | 234 | 228 | 221 | 195 | 202 | 195 | 143 | 223 |
| 25 | 156 | 202 | 208 | 202 | 189 | 208 | 213 | 218 | 220 | 227 | 226 | 230 | 247 | 254 | 273 | 247 | 234 | 228 | 221 | 221 | 208 | 215 | 111 | 111 | 211 |
| 26 | 169 | 205 | 207 | 212 | 211 | 213 | 220 | 223 | 223 | 220 | 223 | 221 | 223 | 221 | 221 | 223 | 223 | 234 | 241 | 234 | 228 | 215 | 202 | 195 | 217 |
| 27 | 208 | 224 | 221 | 218 | 215 | 215 | 216 | 215 | 217 | 218 | 217 | 218 | 218 | 217 | 217 | 217 | 217 | 219 | 223 | 223 | 226 | 218 | 213 | 219 | 218 |
| 28 | 218 | 218 | 217 | 215 | 212 | 211 | 211 | 211 | 211 | 211 | 212 | 213 | 215 | 216 | 213 | 215 | 217 | 219 | 220 | 189 | 150 | 195 | 228 | 215 | 211 |
| 29 | 195 | 208 | 221 | 221 | 208 | 216 | 213 | 216 | 219 | 215 | 217 | 218 | 218 | 219 | 221 | 218 | 217 | 216 | 217 | 217 | 217 | 217 | 217 | 202 | 215 |
| 30 | 205 | 210 | 209 | 208 | 207 | 207 | 208 | 210 | 211 | 211 | 210 | 215 | 220 | 222 | 220 | 218 | 213 | 213 | 215 | 218 | 222 | 220 | 218 | 217 | 214 |
| 31 | 215 | 213 | 211 | 208 | 205 | 200 | 200 | 205 | 209 | 208 | 213 | 217 | 221 | 241 | 260 | 280 | 273 | 267 | 260 | 241 | 228 | 182 | 215 | 228 | 225 |
| Mean | 223 | 210 | 213 | 207 | 204 | 207 | 212 | 214 | 218 | 218 | 219 | 222 | 225 | 227 | 231 | 212 | 213 | 213 | 214 | 201 | 203 | 207 | 216 | 220 | 215 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Hourly mean values

Summary 1987

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 779 | 778 | 767 | 753 | 738 | 726 | 727 | 723 | 724 | 714 | 716 | 711 | 706 | 707 | 709 | 709 | 711 | 737 | 726 | 743 | 740 | 763 | 783 | 805 | 737 |
| Feb. | 819 | 807 | 791 | 778 | 763 | 750 | 738 | 728 | 720 | 724 | 719 | 722 | 719 | 716 | 725 | 712 | 725 | 721 | 738 | 762 | 780 | 802 | 830 | 831 | 755 |
| Mar. | 818 | 834 | 815 | 804 | 794 | 772 | 765 | 758 | 748 | 733 | 718 | 702 | 687 | 687 | 693 | 710 | 716 | 723 | 731 | 743 | 785 | 805 | 824 | 844 | 759 |
| Apr. | 770 | 784 | 802 | 814 | 809 | 809 | 802 | 784 | 764 | 736 | 714 | 691 | 682 | 682 | 700 | 714 | 720 | 725 | 724 | 735 | 757 | 780 | 768 | 768 | 751 |
| May | 832 | 857 | 871 | 860 | 863 | 834 | 825 | 791 | 760 | 737 | 716 | 694 | 678 | 680 | 692 | 699 | 700 | 684 | 686 | 688 | 716 | 758 | 790 | 818 | 760 |
| June | 854 | 874 | 858 | 850 | 843 | 828 | 821 | 812 | 773 | 743 | 711 | 689 | 676 | 679 | 678 | 680 | 681 | 678 | 670 | 669 | 696 | 733 | 775 | 826 | 754 |
| July | 887 | 912 | 962 | 923 | 889 | 866 | 853 | 827 | 803 | 779 | 750 | 715 | 702 | 690 | 695 | 702 | 701 | 702 | 701 | 696 | 718 | 763 | 814 | 857 | 788 |
| Aug. | 900 | 921 | 910 | 902 | 881 | 850 | 842 | 823 | 800 | 776 | 745 | 719 | 702 | 698 | 688 | 688 | 697 | 679 | 678 | 717 | 740 | 806 | 848 | 890 | 787 |
| Sep. | 914 | 992 | 976 | 937 | 880 | 839 | 819 | 816 | 797 | 771 | 750 | 727 | 714 | 703 | 705 | 742 | 718 | 696 | 732 | 739 | 798 | 846 | 849 | 899 | 807 |
| Oct. | 945 | 936 | 908 | 872 | 861 | 813 | 789 | 788 | 789 | 777 | 768 | 739 | 731 | 726 | 737 | 736 | 756 | 741 | 734 | 798 | 828 | 868 | 862 | 880 | 808 |
| Nov. | 915 | 883 | 874 | 834 | 821 | 799 | 778 | 779 | 779 | 783 | 766 | 752 | 749 | 741 | 752 | 747 | 771 | 770 | 767 | 796 | 807 | 865 | 902 | 893 | 805 |
| Des. | 870 | 862 | 851 | 838 | 807 | 792 | 791 | 782 | 783 | 776 | 776 | 775 | 767 | 764 | 768 | 771 | 762 | 765 | 785 | 786 | 797 | 819 | 849 | 860 | 800 |
| Mean | 859 | 870 | 866 | 848 | 830 | 807 | 796 | 784 | 770 | 754 | 738 | 720 | 709 | 706 | 712 | 717 | 721 | 718 | 723 | 739 | 763 | 801 | 825 | 848 | 776 |

Tromsø. Declination. D = 0° + Tabular Quantities expressed in Tenths of Minutes East.

Quiet mean values

Summary 1987

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 743 | 745 | 744 | 742 | 734 | 732 | 730 | 729 | 729 | 721 | 722 | 721 | 718 | 719 | 722 | 721 | 718 | 723 | 726 | 736 | 739 | 744 | 748 | 745 | 729 |
| Feb. | 749 | 757 | 758 | 754 | 750 | 746 | 742 | 737 | 733 | 729 | 726 | 729 | 729 | 728 | 730 | 730 | 728 | 724 | 728 | 735 | 739 | 745 | 749 | 747 | 738 |
| Mar. | 763 | 766 | 767 | 771 | 771 | 774 | 777 | 778 | 778 | 772 | 697 | 714 | 711 | 712 | 718 | 732 | 737 | 736 | 735 | 735 | 745 | 751 | 754 | 755 | 747 |
| Apr. | 761 | 772 | 780 | 800 | 803 | 805 | 804 | 794 | 765 | 738 | 727 | 703 | 696 | 702 | 713 | 726 | 733 | 734 | 736 | 736 | 743 | 751 | 748 | 753 | 753 |
| May | 783 | 792 | 806 | 822 | 827 | 821 | 811 | 803 | 794 | 748 | 723 | 703 | 699 | 701 | 715 | 732 | 725 | 719 | 717 | 715 | 732 | 750 | 754 | 770 | 752 |
| June | 811 | 820 | 829 | 844 | 838 | | | | | | 688 | 683 | 692 | 689 | 699 | 701 | 708 | 713 | 714 | 717 | 745 | | 813 | 807 | 719 |
| July | 802 | 824 | 831 | 835 | 846 | 849 | 824 | 814 | 789 | 767 | 740 | 718 | 709 | 706 | 710 | 715 | 722 | 725 | 725 | 735 | 739 | 740 | 759 | 773 | 743 |
| Aug. | 817 | 822 | 827 | 849 | 849 | 850 | 847 | 824 | 793 | 764 | 731 | 702 | 699 | 711 | 759 | | | | | | | | 788 | 817 | 791 |
| Sep. | 812 | 819 | 825 | 826 | 831 | 832 | 830 | 825 | 805 | 782 | 755 | 737 | 728 | 738 | 751 | 761 | 775 | 778 | 773 | 780 | 788 | 795 | 800 | 797 | 790 |
| Oct. | 817 | 823 | 821 | 819 | 811 | 811 | 809 | 805 | 804 | 779 | 776 | 776 | 770 | 771 | 775 | 779 | 786 | 782 | 786 | 784 | 785 | 793 | 809 | 816 | 797 |
| Nov. | 802 | 804 | 807 | 806 | 807 | 807 | 803 | 798 | 796 | 787 | 777 | 771 | 769 | 769 | 769 | 768 | 769 | 770 | 773 | 786 | 789 | 793 | 797 | 800 | 787 |
| Des. | 804 | 806 | 804 | 803 | 799 | 797 | 794 | 790 | 786 | 779 | 777 | 779 | 777 | 782 | 783 | 785 | 787 | 789 | 787 | 788 | 795 | 800 | 801 | 802 | 790 |
| Mean | 781 | 785 | 787 | 793 | 791 | 791 | 785 | 779 | 771 | 759 | 745 | 732 | 725 | 729 | 734 | 739 | 739 | 740 | 740 | 741 | 750 | 759 | 767 | 772 | 758 |

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

Summary 1987

Hourly mean values

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | -4 | -5 | 6 | 26 | 36 | 38 | 37 | 37 | 33 | 32 | 33 | 34 | 40 | 45 | 53 | 53 | 49 | 51 | 42 | 42 | 33 | -13 | -35 | -32 | 26 |
| Feb. | -56 | -19 | 11 | 26 | 31 | 32 | 34 | 31 | 31 | 31 | 37 | 37 | 46 | 48 | 58 | 70 | 70 | 65 | 50 | 1 | -7 | -24 | -64 | -78 | 19 |
| Mar. | -45 | -26 | -9 | 13 | 19 | 26 | 29 | 26 | 20 | 16 | 21 | 28 | 42 | 56 | 66 | 60 | 67 | 66 | 43 | 20 | -24 | -56 | -75 | -52 | 14 |
| Apr. | 23 | 16 | 9 | 13 | 19 | 21 | 18 | 13 | 8 | 6 | 8 | 22 | 32 | 47 | 55 | 58 | 60 | 59 | 55 | 33 | 3 | -4 | 7 | 12 | 25 |
| May | -19 | -18 | -4 | -7 | 0 | 7 | 9 | 8 | 7 | 11 | 21 | 31 | 50 | 72 | 75 | 76 | 76 | 75 | 68 | 45 | 18 | -11 | -33 | -35 | 21 |
| June | -48 | -19 | 12 | 20 | 22 | 22 | 17 | 12 | 8 | 6 | 14 | 34 | 44 | 59 | 66 | 68 | 77 | 82 | 75 | 52 | 25 | -8 | -41 | -55 | 22 |
| July | -57 | -37 | -39 | -13 | -10 | 8 | 10 | 10 | 13 | 20 | 26 | 38 | 52 | 83 | 95 | 85 | 85 | 79 | 72 | 69 | 31 | -11 | -55 | -70 | 20 |
| Aug. | -60 | -54 | -31 | -9 | -2 | 7 | 13 | 11 | 7 | 12 | 22 | 43 | 66 | 100 | 131 | 124 | 108 | 95 | 78 | 24 | -18 | -50 | -78 | -77 | 19 |
| Sep. | -107 | -121 | -83 | -49 | 1 | 9 | 13 | 11 | 6 | 18 | 25 | 44 | 73 | 80 | 94 | 95 | 91 | 46 | 5 | -40 | -62 | -94 | -127 | -128 | -8 |
| Oct. | -90 | -78 | -61 | -23 | -1 | 14 | 13 | 20 | 18 | 18 | 30 | 44 | 49 | 63 | 71 | 66 | 57 | 35 | 9 | -72 | -84 | -102 | -63 | -70 | -5 |
| Nov. | -86 | -55 | -34 | -12 | 4 | 14 | 18 | 22 | 23 | 16 | 30 | 35 | 43 | 51 | 62 | 52 | 53 | 40 | 19 | 1 | -29 | -68 | -92 | -102 | 0 |
| Des. | -47 | -23 | -14 | 3 | 18 | 21 | 22 | 21 | 19 | 19 | 21 | 23 | 27 | 33 | 49 | 55 | 55 | 43 | 32 | 17 | -18 | -32 | -46 | -54 | 10 |
| Mean | -49 | -37 | -20 | -1 | 11 | 18 | 19 | 18 | 16 | 17 | 24 | 34 | 47 | 62 | 73 | 72 | 71 | 61 | 46 | 16 | -10 | -40 | -58 | -61 | 13 |

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

Summary 1987

Quiet mean values

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 32 | 29 | 31 | 34 | 35 | 39 | 39 | 38 | 37 | 36 | 36 | 37 | 38 | 38 | 38 | 37 | 36 | 37 | 37 | 35 | 31 | 28 | 29 | 26 | 36 |
| Feb. | 31 | 31 | 31 | 31 | 33 | 34 | 35 | 34 | 33 | 33 | 33 | 33 | 33 | 33 | 35 | 34 | 36 | 37 | 39 | 37 | 34 | 35 | 34 | 33 | 34 |
| Mar. | 29 | 28 | 29 | 30 | 32 | 32 | 32 | 26 | 25 | 15 | 13 | 10 | | 34 | 33 | 32 | 34 | 37 | 35 | 35 | 30 | 27 | 29 | 28 | 29 |
| Apr. | 34 | 32 | 31 | 30 | 28 | 25 | 20 | 16 | 9 | 7 | 8 | 13 | 18 | 24 | 28 | 30 | 33 | 37 | 40 | 39 | 37 | 34 | 34 | 35 | 25 |
| May | 35 | 33 | 33 | 32 | 29 | 25 | 19 | 13 | 8 | 6 | 6 | 13 | 20 | 26 | 34 | 41 | 49 | 49 | 50 | 51 | 48 | 40 | 36 | 34 | 26 |
| June | 31 | 35 | 34 | 33 | 29 | 24 | 19 | 13 | 11 | 7 | 10 | 16 | 24 | 30 | 24 | 38 | 42 | 44 | 45 | 46 | 45 | 35 | 31 | 31 | 28 |
| July | 39 | 39 | 40 | 39 | 35 | 29 | 23 | 18 | 14 | 13 | 16 | 16 | 23 | 33 | 41 | 46 | 49 | 53 | 57 | 56 | 53 | 43 | 37 | 31 | 33 |
| Aug. | 23 | 27 | 30 | 28 | 23 | 22 | 19 | 14 | 13 | 10 | 12 | 15 | 24 | 28 | 23 | | | | | | | 23 | 23 | 23 | 20 |
| Sep. | 21 | 19 | 21 | 22 | 23 | 20 | 17 | 12 | 6 | 0 | 1 | 0 | 3 | 13 | 15 | | 23 | 26 | 27 | 25 | 24 | 21 | 25 | 27 | 17 |
| Oct. | 15 | 16 | 18 | 18 | 19 | 18 | 17 | 15 | 10 | 7 | 6 | 6 | 9 | 15 | 18 | 22 | 24 | 24 | 25 | 23 | 23 | 20 | 18 | 15 | 16 |
| Nov. | 18 | 17 | 18 | 19 | 21 | 22 | 20 | 20 | 16 | -12 | 14 | 15 | 18 | 20 | 22 | 23 | 23 | 26 | 26 | 26 | 23 | 22 | 20 | 20 | 18 |
| Des. | 13 | 13 | 13 | 14 | 16 | 18 | 18 | 18 | 16 | 17 | 18 | 18 | 19 | 19 | 19 | 20 | 20 | 21 | 21 | 20 | 20 | 17 | 15 | 15 | 17 |
| Mean | 27 | 26 | 26 | 28 | 27 | 26 | 24 | 21 | 19 | 15 | 18 | 20 | 23 | 26 | 28 | 31 | 32 | 34 | 35 | 34 | 33 | 29 | 27 | 27 | 25 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

Hourly mean values

Summary 1987

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 184 | 196 | 190 | 188 | 197 | 197 | 201 | 203 | 206 | 207 | 210 | 212 | 217 | 219 | 223 | 219 | 219 | 216 | 206 | 209 | 204 | 206 | 190 | 180 | 204 |
| Feb. | 192 | 183 | 190 | 196 | 195 | 196 | 198 | 200 | 205 | 210 | 211 | 216 | 218 | 215 | 216 | 215 | 212 | 213 | 204 | 193 | 199 | 198 | 205 | 198 | 203 |
| Mar. | 194 | 194 | 194 | 188 | 186 | 190 | 200 | 206 | 210 | 212 | 212 | 215 | 218 | 223 | 220 | 214 | 208 | 215 | 214 | 213 | 201 | 190 | 194 | 192 | 204 |
| Apr. | 199 | 203 | 205 | 199 | 199 | 196 | 198 | 200 | 203 | 205 | 206 | 209 | 211 | 212 | 222 | 224 | 222 | 214 | 213 | 210 | 211 | 202 | 201 | 193 | 207 |
| May | 203 | 199 | 191 | 188 | 191 | 190 | 193 | 194 | 201 | 206 | 207 | 209 | 209 | 216 | 222 | 219 | 213 | 209 | 209 | 206 | 203 | 206 | 215 | 205 | 204 |
| June | 198 | 194 | 190 | 191 | 191 | 196 | 201 | 203 | 204 | 206 | 203 | 210 | 214 | 220 | 221 | 219 | 216 | 215 | 204 | 206 | 204 | 203 | 208 | 202 | 205 |
| July | 208 | 207 | 207 | 193 | 195 | 194 | 199 | 201 | 201 | 203 | 205 | 210 | 215 | 217 | 218 | 219 | 220 | 209 | 200 | 196 | 200 | 216 | 202 | 213 | 206 |
| Aug. | 231 | 228 | 193 | 185 | 194 | 193 | 200 | 207 | 216 | 218 | 218 | 219 | 229 | 224 | 213 | 212 | 195 | 196 | 192 | 208 | 217 | 238 | 243 | 241 | 213 |
| Sep. | 278 | 261 | 196 | 179 | 176 | 192 | 205 | 214 | 219 | 220 | 220 | 225 | 225 | 237 | 212 | 193 | 206 | 212 | 204 | 228 | 239 | 275 | 286 | 285 | 224 |
| Oct. | 247 | 215 | 199 | 186 | 188 | 194 | 205 | 217 | 225 | 226 | 230 | 232 | 229 | 221 | 227 | 206 | 184 | 189 | 193 | 241 | 244 | 231 | 230 | 243 | 217 |
| Nov. | 209 | 202 | 199 | 190 | 187 | 190 | 201 | 216 | 224 | 228 | 227 | 229 | 225 | 228 | 225 | 231 | 215 | 203 | 218 | 196 | 213 | 226 | 226 | 221 | 214 |
| Des. | 223 | 210 | 213 | 207 | 204 | 207 | 212 | 214 | 218 | 218 | 219 | 222 | 225 | 227 | 231 | 212 | 213 | 213 | 214 | 201 | 203 | 207 | 216 | 220 | 215 |
| Mean | 214 | 208 | 197 | 191 | 192 | 195 | 201 | 206 | 211 | 213 | 214 | 217 | 220 | 222 | 221 | 215 | 210 | 208 | 206 | 209 | 211 | 217 | 218 | 216 | 210 |

Tromsø. Vertical Intensity. Z = 51400 + Tabular Quantities expressed in Gamma.

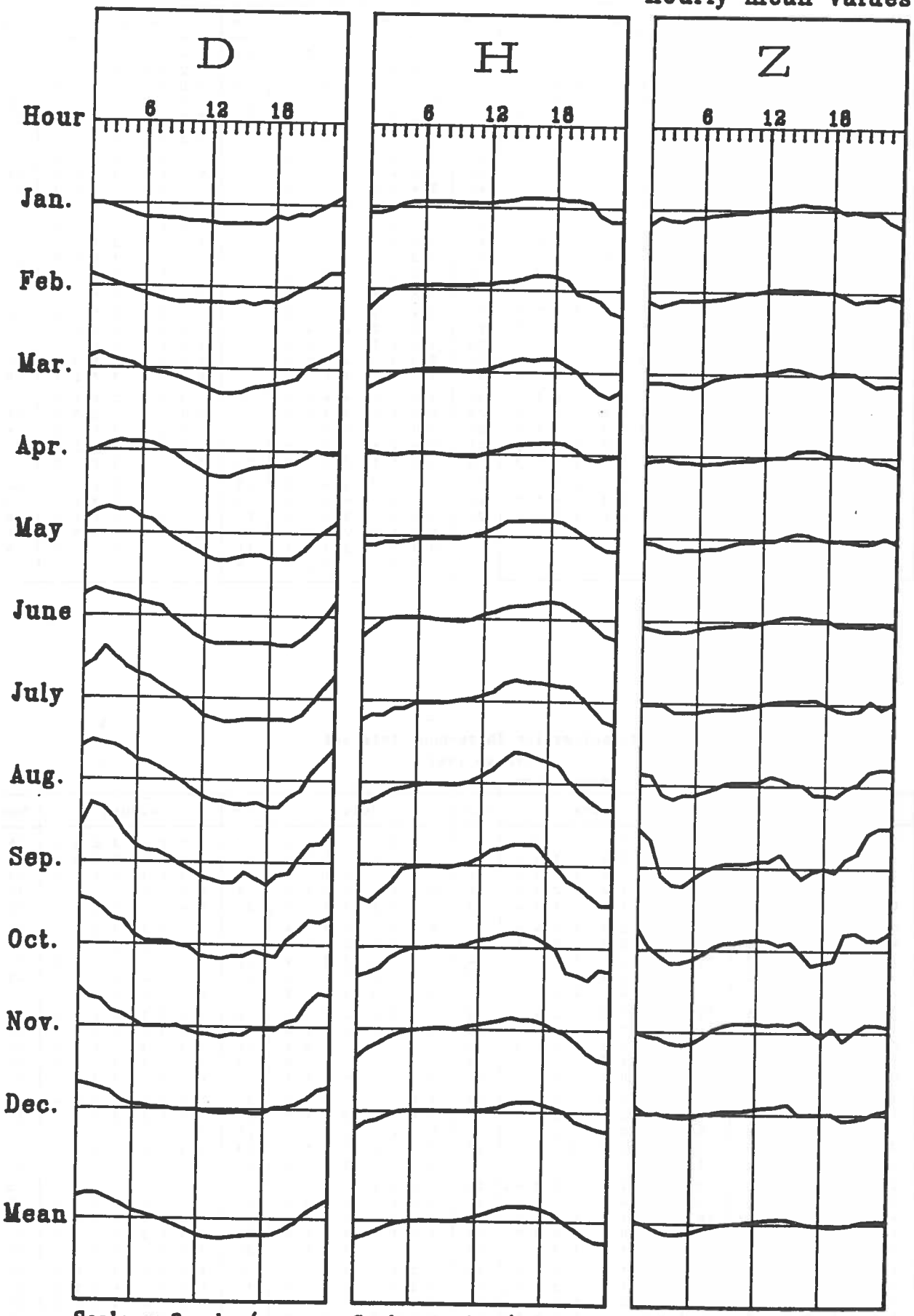
Quiet mean values

Summary 1987

| | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan. | 207 | 205 | 204 | 205 | 205 | 205 | 205 | 205 | 207 | 206 | 208 | 209 | 211 | 213 | 214 | 216 | 217 | 217 | 217 | 216 | 214 | 212 | 205 | 207 | 209 |
| Feb. | 207 | 206 | 207 | 205 | 204 | 202 | 202 | 203 | 202 | 205 | 207 | 207 | 207 | 209 | 209 | 210 | 211 | 214 | 215 | 214 | 212 | 211 | 210 | 208 | 206 |
| Mar. | 209 | 209 | 209 | 207 | 205 | 206 | 206 | 208 | 209 | 208 | 205 | 207 | 211 | 213 | 219 | 220 | 220 | 218 | 217 | 215 | 215 | 211 | 209 | 210 | 210 |
| Apr. | 208 | 210 | 212 | 212 | 209 | 206 | 205 | 204 | 204 | 205 | 205 | 206 | 205 | 206 | 208 | 210 | 210 | 212 | 212 | 210 | 208 | 206 | 207 | 208 | 208 |
| May | 207 | 206 | 207 | 206 | 205 | 204 | 203 | 202 | 202 | 200 | 199 | 200 | 201 | 202 | 205 | 206 | 207 | 208 | 209 | 207 | 206 | 205 | 206 | 207 | 204 |
| June | 199 | 202 | 205 | 205 | 205 | 204 | 205 | 204 | 203 | 204 | 205 | 207 | 199 | 199 | 202 | 199 | 202 | 205 | 206 | 205 | 203 | 200 | 199 | 198 | 203 |
| July | 189 | 193 | 196 | 198 | 199 | 200 | 199 | 198 | 195 | 195 | 193 | 194 | 194 | 194 | 198 | 202 | 206 | 206 | 207 | 207 | 213 | 208 | 208 | 211 | 198 |
| Aug. | 212 | 209 | 211 | 212 | 212 | 210 | 212 | 210 | 209 | 209 | 208 | 207 | 198 | | | | | | | 208 | 217 | 215 | 211 | 213 | 210 |
| Sep. | 214 | 216 | 214 | 216 | 216 | 212 | 211 | 212 | 213 | 211 | | 223 | 224 | 223 | | 227 | 226 | 222 | 214 | 215 | 215 | 216 | 214 | 217 | 215 |
| Oct. | 216 | 217 | 217 | 218 | 218 | 217 | 217 | 216 | 216 | 217 | 218 | 219 | 219 | 223 | 225 | 224 | 226 | 224 | 225 | 223 | 224 | | 226 | 220 | 219 |
| Nov. | 218 | 218 | 218 | 219 | 219 | 218 | 218 | 216 | 217 | 220 | 220 | 221 | 220 | 220 | 220 | 220 | 220 | 220 | 221 | 222 | 221 | 220 | 219 | 219 | 219 |
| Des. | 215 | 215 | 215 | 213 | 212 | 212 | 212 | 213 | 214 | 215 | 217 | 218 | 218 | 220 | 219 | 219 | 219 | 218 | 217 | 218 | 220 | 219 | 218 | 220 | 216 |
| Mean | 209 | 209 | 210 | 209 | 208 | 207 | 207 | 207 | 207 | 207 | 208 | 209 | 210 | 211 | 212 | 214 | 214 | 214 | 214 | 213 | 212 | 209 | 209 | 210 | 209 |

TROMSØ 1987

Hourly mean values




Scale = 2 min./mm
Baseline = 77.6 min.

Scale = 20 γ/mm
Baseline = 11213 γ

Scale = 10 γ/mm
Baseline = 51609 γ

## K-Indices for Three-hour Interval

Tromsø 1987

Range 2000 gamma for K = 9.

| Day | January | Sum | February | Sum | March | Sum | April | Sum |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 3 2 3 3 4 5 5 | 27 | 4 2 1 1 1 3 3 4 | 19 | 4 2 1 2 2 3 5 4 | 23 | 4 4 1 2 3 3 4 3 | 24 |
| 2 | 1 2 1 2 4 3 3 3 | 19 | 3 0 2 1 1 1 1 2 | 11 | 0 0 2 2 1 1 2 3 | 11 | 1 2 0 2 2 2 2 0 | 11 |
| 3 | 1 2 1 1 1 1 2 3 | 12 | 4 1 0 1 0 1 2 1 | 10 | 1 2 1 2 2 2 5 4 | 19 | 0 0 0 1 1 0 1 0 | 3 |
| 4 | 2 1 1 0 0 1 2 3 | 10 | 0 0 1 1 1 3 3 1 | 10 | 5 2 1 2 2 2 4 5 | 23 | 1 3 1 3 4 4 1 1 | 18 |
| 5 | 2 0 1 0 0 2 2 2 | 9 | 1 0 1 1 1 1 1 3 | 9 | 2 4 2 3 5 5 5 6 | 32 | 3 3 2 1 4 3 6 5 | 27 |
| 6 | 1 1 1 0 1 1 1 3 | 9 | 4 2 0 1 1 1 1 5 | 15 | 3 3 3 2 1 1 4 6 | 23 | 2 2 0 2 3 4 4 1 | 18 |
| 7 | 1 1 0 0 1 0 2 5 | 10 | 4 1 1 1 2 3 5 5 | 22 | 5 4 4 4 3 2 3 4 | 29 | 1 1 2 2 3 2 2 4 | 17 |
| 8 | 3 1 1 1 3 3 4 4 | 20 | 4 2 3 2 3 4 6 4 | 28 | 4 2 2 2 3 4 2 4 | 23 | 4 3 2 2 2 2 6 5 | 26 |
| 9 | 3 1 2 3 2 2 1 2 | 16 | 4 2 2 2 2 3 2 5 | 22 | 5 4 3 2 2 1 1 2 | 20 | 2 1 1 3 3 3 5 3 | 21 |
| 10 | 1 1 1 1 2 1 1 1 | 9 | 3 3 1 1 2 1 2 2 | 15 | 2 2 2 3 4 3 1 0 | 17 | 5 4 1 1 1 1 1 0 | 14 |
| 11 | 0 1 1 0 1 2 3 4 | 12 | 3 1 1 0 2 3 5 3 | 18 | 1 1 2 2 3 3 3 3 | 18 | 1 1 2 2 3 3 1 4 | 17 |
| 12 | 4 2 1 1 1 2 1 4 | 16 | 5 2 3 3 4 4 4 3 | 28 | 4 2 2 2 2 2 4 6 | 24 | 1 1 1 2 2 1 1 1 | 10 |
| 13 | 3 1 1 1 1 3 2 3 | 15 | 4 3 2 0 1 1 2 2 | 15 | 5 3 2 2 2 2 1 5 | 22 | 2 2 1 2 1 4 5 6 | 23 |
| 14 | 1 1 1 1 1 1 3 1 | 10 | 1 1 1 1 1 1 2 0 | 8 | 4 2 2 1 2 2 5 4 | 22 | 1 0 1 2 2 2 2 2 | 12 |
| 15 | 0 1 0 0 0 1 3 4 | 9 | 0 1 1 1 2 2 4 3 | 14 | 4 3 3 2 1 2 4 4 | 23 | 4 1 1 1 2 2 3 1 | 15 |
| 16 | 3 2 1 2 2 4 3 2 | 19 | 2 2 1 3 3 3 5 4 | 23 | 5 2 1 3 3 1 5 5 | 25 | 1 1 0 1 2 1 1 3 | 10 |
| 17 | 3 3 2 1 1 2 3 5 | 20 | 2 2 2 1 2 3 4 5 | 21 | 4 4 4 2 2 1 2 3 | 22 | 3 0 0 1 2 1 2 1 | 10 |
| 18 | 5 1 1 1 1 2 2 5 | 18 | 4 1 1 2 1 3 4 4 | 20 | 3 2 2 2 3 3 4 6 | 25 | 1 0 1 1 1 1 1 1 | 7 |
| 19 | 3 0 1 1 2 3 2 4 | 16 | 3 0 1 1 1 1 1 2 | 10 | 5 3 3 3 2 1 5 5 | 27 | 2 2 2 3 1 1 3 3 | 17 |
| 20 | 3 2 3 2 3 7 6 5 | 31 | 1 3 3 4 3 4 6 6 | 30 | 1 1 1 1 1 2 3 4 | 14 | 2 3 3 4 3 2 2 1 | 20 |
| 21 | 3 2 2 2 2 2 4 5 | 22 | 5 4 4 3 2 4 5 4 | 31 | 1 1 1 2 4 4 6 6 | 25 | 1 2 2 1 0 0 1 0 | 7 |
| 22 | 3 3 2 2 2 4 4 5 | 25 | 4 4 3 4 3 2 3 6 | 29 | 6 2 1 2 2 3 6 5 | 27 | 0 1 1 2 2 2 3 3 | 14 |
| 23 | 5 2 1 2 2 1 2 6 | 21 | 5 3 2 3 3 3 5 4 | 28 | 2 1 1 2 2 1 1 1 | 11 | 1 1 0 1 1 1 1 2 | 8 |
| 24 | 3 2 2 2 1 3 3 3 | 19 | 4 1 2 2 2 3 6 6 | 26 | 0 0 2 1 1 1 1 2 | 8 | 3 2 1 3 4 2 5 4 | 24 |
| 25 | 2 2 3 1 1 3 4 5 | 21 | 4 2 1 1 2 1 4 3 | 18 | 0 0 1 1 2 3 3 3 | 13 | 1 1 1 1 2 2 4 3 | 15 |
| 26 | 4 3 1 1 2 2 1 1 | 15 | 2 1 1 2 2 1 1 2 | 12 | 4 3 2 3 3 4 4 2 | 25 | 1 1 1 2 2 2 2 2 | 13 |
| 27 | 1 1 1 3 3 1 1 2 | 13 | 2 1 2 3 3 4 5 5 | 25 | 4 5 3 3 4 5 5 4 | 33 | 1 1 2 3 2 3 4 3 | 19 |
| 28 | 3 3 2 2 2 4 4 5 | 25 | 4 1 2 2 3 2 4 6 | 24 | 5 3 3 2 2 2 3 2 | 22 | 2 1 0 1 1 1 1 3 | 10 |
| 29 | 6 4 3 2 2 1 1 2 | 21 | | | 0 2 1 2 2 1 2 3 | 13 | 2 1 0 1 1 1 5 3 | 14 |
| 30 | 3 1 1 0 1 1 2 3 | 12 | | | 0 1 0 1 2 3 3 1 | 11 | 0 1 0 2 1 1 2 2 | 9 |
| 31 | 5 4 2 2 1 1 3 3 | 21 | | | 1 1 0 1 1 1 2 1 | 8 | | |

## K-Indices for Three-hour Interval

Tromsø 1987

Range 2000 gamma for K = 9.

| Day | May | Sum | June | Sum | July | Sum | August | Sum |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 1 1 3 3 1 2 4 | 16 | 3 2 1 3 3 3 3 3 | 21 | 0 1 0 1 1 1 1 2 | 7 | 4 5 2 2 3 2 3 4 | 25 |
| 2 | 4 1 1 2 2 1 2 3 | 16 | 5 3 2 2 1 1 1 3 | 18 | 1 1 1 1 1 1 3 3 | 12 | 3 2 1 2 2 2 2 2 | 16 |
| 3 | 1 1 2 3 3 2 1 1 | 14 | 0 1 1 2 1 2 3 2 | 12 | 2 1 0 2 2 1 2 5 | 15 | 2 3 2 3 5 4 4 2 | 25 |
| 4 | 1 1 2 2 2 2 2 2 | 14 | 1 1 1 2 2 2 3 2 | 14 | 5 1 1 1 1 2 4 3 | 18 | 2 2 1 2 3 2 3 4 | 19 |
| 5 | 0 0 0 2 2 2 3 0 | 9 | 4 2 1 2 3 3 3 4 | 22 | 4 3 2 2 2 2 2 4 | 21 | 6 4 2 3 3 3 5 4 | 30 |
| 6 | 0 1 0 1 2 2 3 4 | 13 | 2 2 2 5 4 4 4 4 | 27 | 4 1 0 1 2 2 3 4 | 17 | 2 2 1 3 3 3 4 3 | 21 |
| 7 | 4 4 2 2 2 2 2 4 | 22 | 4 1 0 3 3 2 4 4 | 21 | 1 1 1 1 2 1 4 3 | 14 | 4 2 1 2 2 1 2 2 | 16 |
| 8 | 2 1 0 2 1 2 2 2 | 12 | 4 1 2 1 1 2 1 2 | 14 | 2 2 1 3 3 3 4 4 | 22 | 1 2 2 2 3 2 3 6 | 21 |
| 9 | 1 1 0 1 1 1 2 2 | 9 | 2 1 0 1 1 1 1 3 | 10 | 3 3 1 2 2 2 4 4 | 21 | 6 3 2 2 4 3 3 2 | 25 |
| 10 | 2 0 1 3 4 2 3 1 | 16 | 4 1 0 2 2 2 1 1 | 13 | 6 4 1 3 4 3 3 2 | 26 | 2 1 1 2 2 3 3 3 | 17 |
| 11 | 2 1 1 2 1 2 5 5 | 19 | 1 1 1 3 2 2 4 3 | 17 | 2 2 1 2 2 2 3 5 | 19 | 2 2 0 1 2 2 3 4 | 16 |
| 12 | 1 1 0 1 1 1 2 4 | 11 | 2 2 1 3 4 2 5 4 | 23 | 3 1 1 2 3 1 2 4 | 17 | 4 3 3 2 4 3 4 7 | 30 |
| 13 | 0 1 1 2 1 2 4 5 | 16 | 3 2 2 2 3 2 2 3 | 19 | 4 1 1 1 1 1 2 5 | 16 | 5 3 3 3 3 2 5 5 | 29 |
| 14 | 5 2 1 2 3 3 3 5 | 24 | 2 1 2 2 1 1 1 4 | 14 | 3 2 1 1 1 2 2 5 | 17 | 5 5 2 3 3 3 4 5 | 30 |
| 15 | 0 1 1 2 2 2 1 2 | 11 | 3 1 0 1 0 3 3 3 | 14 | 3 2 2 3 5 4 4 7 | 30 | 4 4 3 3 3 3 5 6 | 31 |
| 16 | 1 2 1 2 2 2 2 1 | 13 | 4 1 1 2 2 3 6 4 | 23 | 5 5 2 3 3 5 3 6 | 32 | 5 4 3 3 3 3 4 4 | 29 |
| 17 | 1 1 0 1 1 1 2 2 | 9 | 4 1 0 1 2 2 1 4 | 15 | 5 4 2 3 3 3 4 5 | 29 | 3 2 1 2 3 3 5 4 | 23 |
| 18 | 1 0 1 1 0 1 1 0 | 5 | 4 2 2 2 2 2 2 4 | 20 | 5 3 2 3 3 2 4 3 | 25 | 3 3 2 1 2 2 3 4 | 20 |
| 19 | 0 1 0 1 1 1 1 3 | 8 | 6 3 2 3 3 2 2 6 | 27 | 3 2 1 2 3 2 5 5 | 23 | 4 4 2 2 3 3 3 4 | 25 |
| 20 | 3 1 1 2 1 2 2 3 | 15 | 5 2 1 2 3 3 5 5 | 26 | 4 3 1 2 2 3 3 5 | 23 | 4 3 2 3 2 3 3 3 | 23 |
| 21 | 2 1 0 1 1 1 2 0 | 8 | 5 2 1 2 1 2 3 4 | 20 | 4 2 2 2 2 2 2 3 | 19 | 3 2 1 1 1 3 3 1 | 15 |
| 22 | 0 1 0 2 2 3 3 5 | 16 | 3 1 0 2 1 2 3 2 | 14 | 4 2 2 3 2 2 5 4 | 24 | 0 1 1 2 2 3 5 2 | 16 |
| 23 | 4 1 1 2 1 3 4 4 | 20 | 2 1 1 2 1 2 4 2 | 15 | 3 2 1 2 2 2 4 4 | 20 | 2 2 3 2 3 3 4 4 | 23 |
| 24 | 4 3 1 3 4 4 4 5 | 28 | 1 1 0 2 1 3 3 5 | 16 | 2 1 1 2 2 3 4 5 | 20 | 3 3 1 3 3 3 3 2 | 21 |
| 25 | 5 5 4 3 3 2 2 1 | 25 | 3 1 1 2 1 3 3 5 | 19 | 4 2 2 2 3 2 5 4 | 24 | 2 1 2 5 5 5 5 4 | 29 |
| 26 | 1 1 2 3 3 3 6 5 | 24 | 4 5 1 1 3 3 3 3 | 23 | 2 2 2 2 1 1 1 1 | 12 | 6 6 5 4 3 3 6 5 | 38 |
| 27 | 5 4 5 4 4 3 3 3 | 31 | 3 2 1 3 1 2 2 0 | 14 | 4 3 1 1 2 2 2 2 | 17 | 4 3 3 3 4 4 5 3 | 29 |
| 28 | 3 2 2 2 2 2 3 6 | 22 | 1 2 2 2 1 1 1 4 | 14 | 2 2 1 3 3 3 4 4 | 22 | 2 3 1 2 3 3 6 6 | 26 |
| 29 | 5 6 3 3 3 3 4 2 | 29 | 2 1 1 2 1 2 2 5 | 16 | 6 7 5 3 3 3 1 3 | 31 | 6 2 2 3 2 3 6 4 | 28 |
| 30 | 1 2 1 2 5 3 4 2 | 20 | 4 1 0 1 1 2 1 1 | 11 | 4 2 1 2 4 3 2 6 | 24 | 3 2 3 1 3 3 4 5 | 24 |
| 31 | 2 2 2 3 3 3 5 4 | 24 | | | 6 5 2 2 3 3 3 3 | 27 | 3 3 3 3 4 5 4 5 | 30 |

## K-Indices for Three-hour Interval

Tromsø 1987

Range 2000 gamma for K = 9.

| Day | September | Sum | October | Sum | November | Sum | December | Sum |
|---|---|---|---|---|---|---|---|---|
| 1 | 6 7 5 4 4 4 5 6 | 41 | 5 2 2 3 3 3 6 4 | 28 | 3 3 1 2 2 3 2 1 | 17 | 2 2 1 1 1 2 3 3 | 15 |
| 2 | 6 3 3 3 3 3 5 3 | 29 | 3 3 2 3 2 2 2 1 | 18 | 4 3 2 2 4 5 6 6 | 32 | 1 0 1 0 1 1 1 3 | 8 |
| 3 | 2 2 1 2 2 2 1 1 | 13 | 1 1 2 4 6 6 7 4 | 31 | 3 4 2 2 4 4 6 6 | 31 | 4 2 2 2 3 3 3 4 | 23 |
| 4 | 2 2 1 2 3 3 5 5 | 23 | 3 3 2 3 3 3 2 3 | 22 | 5 3 2 1 2 2 5 4 | 24 | 2 1 1 0 1 3 3 6 | 17 |
| 5 | 5 2 1 3 3 1 2 4 | 21 | 2 2 2 2 2 3 3 4 | 20 | 3 1 2 2 1 3 5 5 | 22 | 6 4 3 3 2 3 4 2 | 27 |
| 6 | 4 3 1 2 2 3 6 4 | 25 | 2 1 1 2 1 1 5 4 | 17 | 3 4 2 2 3 2 3 2 | 21 | 2 2 2 1 2 2 3 5 | 19 |
| 7 | 1 1 1 3 4 3 2 6 | 21 | 1 1 1 2 4 2 1 3 | 15 | 1 2 1 1 1 1 0 1 | 8 | 2 2 1 0 1 1 3 1 | 11 |
| 8 | 6 3 3 2 2 3 2 4 | 25 | 3 3 2 3 2 2 3 2 | 20 | 1 1 1 1 1 2 2 2 | 11 | 1 0 1 0 1 1 1 1 | 6 |
| 9 | 3 2 2 3 2 2 4 3 | 21 | 0 0 1 0 1 1 4 3 | 10 | 0 0 1 2 1 2 3 7 | 16 | 0 0 1 0 1 1 2 4 | 9 |
| 10 | 3 1 1 3 5 4 6 7 | 30 | 4 3 1 1 1 2 3 3 | 18 | 6 4 3 2 2 1 2 4 | 24 | 4 3 2 2 4 5 7 6 | 33 |
| 11 | 7 4 3 4 4 5 6 6 | 39 | 4 4 3 2 4 6 7 4 | 34 | 3 3 4 3 2 3 4 6 | 28 | 6 4 2 1 3 3 4 5 | 28 |
| 12 | 4 4 3 3 3 3 6 6 | 32 | 2 2 1 1 3 3 3 3 | 18 | 7 3 3 4 2 3 4 7 | 33 | 5 4 3 2 2 2 2 2 | 22 |
| 13 | 5 4 3 2 5 4 3 6 | 32 | 5 4 3 3 4 5 6 6 | 36 | 5 5 4 3 5 5 5 5 | 37 | 1 1 1 1 1 1 1 2 | 9 |
| 14 | 6 6 4 3 3 3 7 5 | 37 | 5 6 5 4 4 5 7 5 | 41 | 5 5 3 3 3 4 5 5 | 33 | 1 1 1 1 1 1 2 4 | 12 |
| 15 | 5 4 4 4 3 4 6 6 | 36 | 5 5 4 4 3 4 6 4 | 35 | 5 3 3 3 2 4 6 3 | 29 | 0 0 1 1 3 5 5 4 | 19 |
| 16 | 6 3 4 3 3 2 4 6 | 31 | 3 4 4 2 3 4 5 4 | 29 | 4 3 2 1 1 3 2 2 | 18 | 6 6 4 3 4 7 5 6 | 41 |
| 17 | 5 3 2 2 3 5 6 6 | 32 | 3 1 2 3 4 5 6 6 | 30 | 2 1 1 0 1 1 1 2 | 9 | 4 4 3 2 3 3 5 5 | 29 |
| 18 | 5 2 2 3 2 2 2 4 | 22 | 3 2 1 2 2 2 3 2 | 17 | 1 2 1 1 1 1 3 3 | 13 | 5 3 3 2 2 1 2 3 | 21 |
| 19 | 2 1 1 2 1 1 1 0 | 9 | 2 1 1 1 2 2 3 4 | 16 | 3 2 3 3 3 3 4 4 | 25 | 2 1 1 1 2 2 5 4 | 18 |
| 20 | 0 1 0 2 2 4 5 3 | 17 | 3 1 1 1 3 4 5 6 | 24 | 3 3 3 2 2 4 4 4 | 25 | 2 1 1 1 1 3 2 1 | 12 |
| 21 | 4 4 1 2 3 2 2 2 | 20 | 4 4 2 2 3 5 6 4 | 30 | 4 2 2 2 2 1 1 2 | 16 | 1 2 1 1 3 5 5 4 | 22 |
| 22 | 5 4 2 3 2 6 5 6 | 33 | 2 1 1 1 2 1 2 4 | 14 | 3 2 2 2 2 2 5 4 | 22 | 5 5 3 3 3 4 6 6 | 35 |
| 23 | 6 4 3 2 2 2 4 3 | 26 | 5 3 3 3 2 4 3 3 | 26 | 3 3 4 4 4 3 5 4 | 30 | 4 3 2 2 3 3 3 2 | 22 |
| 24 | 3 4 2 2 2 2 3 2 | 20 | 2 2 2 3 3 3 5 5 | 25 | 3 4 3 4 4 4 5 5 | 32 | 2 1 1 2 2 3 3 4 | 18 |
| 25 | 2 2 3 4 5 5 6 5 | 32 | 6 6 5 3 4 1 6 6 | 37 | 4 2 3 2 3 4 4 4 | 26 | 3 2 1 2 2 2 3 5 | 20 |
| 26 | 5 4 4 3 3 3 4 2 | 28 | 3 3 3 3 3 3 3 4 | 25 | 4 3 2 3 3 5 3 5 | 28 | 2 2 1 1 1 1 2 3 | 13 |
| 27 | 2 1 1 2 2 3 5 4 | 20 | 6 5 4 3 4 6 5 7 | 40 | 5 5 4 3 4 5 5 4 | 35 | 2 0 1 0 0 1 1 1 | 6 |
| 28 | 6 3 3 3 4 3 6 5 | 33 | 7 6 5 4 4 6 6 5 | 43 | 2 3 2 3 3 3 3 3 | 22 | 0 0 1 1 1 1 4 4 | 12 |
| 29 | 4 5 3 3 5 7 6 6 | 39 | 5 4 3 2 4 4 5 6 | 33 | 2 0 1 1 1 1 1 0 | 7 | 2 2 1 1 1 1 1 3 | 12 |
| 30 | 7 7 5 4 4 7 6 4 | 44 | 4 3 3 3 2 2 5 4 | 26 | 0 0 1 1 1 1 3 1 | 8 | 1 0 0 1 1 1 1 1 | 6 |
| 31 | | | 3 2 2 3 3 3 5 3 | 24 | | | 0 0 1 1 1 2 4 3 | 12 |

## Sudden Commencements

Tromsø 1987

### January

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 05 | 1736: | ssc* A | -* | +* | + |
| 17 | 2159: | ssc* A | -* | - | + |
| 18 | 2115: | ssc A | + | - | - |
| 23 | 2038: | ssc A | + | - | - |
| 28 | 2058: | ssc* B | +* | - | - |

### February

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 07 | 2039: | ssc B | + | - | + |
| 08 | 1401: | ssc A | - | + | - |
| 20 | 1832: | ssc B | + | - | - |
| 21 | 2006: | ssc* A | -* | + | - |

### March

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 13 | 2145: | ssc B | - | - | + |
| 15 | 1943: | ssc* A | +* | +* | +* |
| 16 | 1942: | ssc* B | + | -* | + |
| 19 | 1932: | ssc A | - | - | - |
| 20 | 2053: | ssc* B | +* | - | - |
| 19 | 1953: | ssc* B | -* | - | - |

### April

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 04 | 0316: | ssc* A | -* | + | -* |
| 23 | 2008: | ssc* C | -* | +* | - |
| 24 | 2040: | ssc* B | +* | - | + |
| 27 | 1942: | ssc A | + | - | - |

### May

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 07 | 2026: | ssc A | - | + | - |
| 19 | 2251: | ssc B | - | - | - |
| 20 | 2033: | ssc B | - | - | - |
| 30 | 1837: | ssc* B | + | -* | - |

### June

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 13 | 2113: | ssc C | + | - | + |
| 22 | 1914: | ssc C | + | + | + |

### July

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 19 | 1955: | ssc* B | +* | - | - |
| 24 | 1636: | ssc* A | -* | +* | -* |
| 28 | 0851: | ssc* A | +* | +* | -* |

### August

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 05 | 1912: | ssc* A | -* | + | - |
| 15 | 1856: | ssc A | + | - | - |
| 16 | 1904: | ssc* B | +* | + | + |
| 20 | 1850: | ssc C | - | - | - |
| 24 | 0939: | ssc* A | +* | +* | -* |
| 29 | 1206: | ssc* A | +* | +* | -* |
| 30 | 2047: | ssc* B | +* | - | + |

### September

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 09 | 2030: | ssc B | + | - | + |
| 10 | 1135: | ssc* A | -* | +* | -* |
| 13 | 2127: | ssc A | + | - | + |
| 14 | 1929: | ssc* A | +* | - | + |
| 18 | 2101: | ssc B | - | + | - |
| 24 | 0157: | ssc* A | -* | +* | -* |

### October

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 01 | 1924: | ssc* A | -* | - | + |
| 06 | 2005: | ssc A | - | - | - |
| 07 | 2125: | ssc* B | +* | - | -* |
| 14 | 1851: | ssc* A | +* | - | + |
| 16 | 1814: | ssc* B | +* | +* | -* |
| 30 | 2032: | ssc B | + | - | - |

### November

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 03 | 1000: | ssc A | + | - | + |
| 04 | 2018: | ssc* B | +* | -* | +* |
| 07 | 0325: | ssc* A | -* | +* | - |
| 11 | 2115: | ssc* B | -* | - | - |
| 14 | 2012: | ssc A | - | - | + |
| 17 | 2105: | ssc* B | +* | +* | -* |
| 23 | 1743: | ssc* A | -* | - | + |

### December

| Day | Time | | D | H | Z |
|---|---|---|---|---|---|
| 04 | 2217: | ssc* A | +* | - | + |
| 06 | 2041: | ssc A | + | - | + |
| 11 | 2134: | ssc* B | -* | - | + |
| 22 | 2013: | ssc* B | +* | -* | + |
| 28 | 2019: | ssc* A | -* | +* | - |

# Sudden Impulses

Tromsø 1987

| January | | | | | February | March | | | | | | April | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Time | | D | H | Z | | Day | Time | | D | H | Z | Day | Time | | D | H | Z |
| 04 | 1804: | si B | + | + | + | | 03 | 2236: | si A | - | - | - | 01 | 1951: | si B | + | - | - |
| 04 | 2304: | si B | - | - | - | | 19 | 1953: | si A | - | - | - | 08 | 2012: | si A | + | - | - |
| | | | | | | | | | | | | | 23 | 2105: | si B | - | - | - |

| May | | | | | June | | | | | | | July | | | | | | August | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Time | | D | H | Z | Day | Time | | D | H | Z | Day | Time | | D | H | Z | Day | Time | | D | H | Z |
| 02 | 2206: | si B | + | - | - | 08 | 2306: | si A | - | - | - | 16 | 2232: | si A | + | - | + | 30 | 2106: | si A | + | - | + |
| 07 | 2054: | si A | + | - | + | 28 | 2251: | si B | + | - | + | | | | | | | 31 | 2111: | si A | + | - | + |
| 24 | 2156: | si B | + | - | - | | | | | | | | | | | | | | | | | | |

| September | | | | | | October | | | | | | November | | | | | | December | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | Time | | D | H | Z | Day | Time | | D | H | Z | Day | Time | | D | H | Z | Day | Time | | D | H | Z |
| 18 | 2226: | si A | + | - | - | 18 | 2039: | si A | + | - | + | 05 | 2149: | si A | - | - | + | 08 | 2039: | si A | + | + | - |
| | | | | | | | | | | | | 11 | 1909: | si A | + | - | - | 15 | 1902: | si A | + | - | + |
| | | | | | | | | | | | | 11 | 1945: | si A | + | - | + | 19 | 1856: | si A | + | - | - |
| | | | | | | | | | | | | 13 | 1944: | si A | + | - | - | 19 | 1934: | si A | + | - | - |
| | | | | | | | | | | | | 13 | 2315: | si A | + | - | + | 25 | 2209: | si A | + | - | - |
| | | | | | | | | | | | | 21 | 1900: | si A | + | - | + | 26 | 2124: | si A | + | - | + |
| | | | | | | | | | | | | 23 | 1751: | si A | + | - | + | | | | | | |