# NURMIJÄRVI GEOPHYSICAL OBSERVATORY

# **MAGNETIC RESULTS 2003**

Editors K. Pajunpää and H. Nevanlinna

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### 1 Description of the observatory

The Nurmijärvi Geophysical Observatory of the Finnish Meteorological Institute (FMI) started recording the Earth's magnetic field in April 1952. The first yearbook was for 1953. The observatory is a part of Space Research Division (AVA).

The observatory lies in a pine forest on a moraine ridge by a lake shore, about 40 kilometers NNW of Helsinki. There are no artificial disturbance sources nearby.

Coordinates:

|                  | Lat.               | Lon.               |
|------------------|--------------------|--------------------|
| Geographical     | $60^{\circ}30.5'N$ | $24^{\circ}39.3'E$ |
| Geomagnetic      | $57^{\circ}43.8'$  | $113^{\circ}28.8'$ |
| Corr.geomagnetic | $56^{\circ}49.2'$  | $102^{\circ}31.2'$ |

The magnetic coordinates are referred to the IGRF-95 model.

L-value 3.3 Height 105m

The Nurmijärvi observatory is running two digital magnetometers, which are controlled once per week with absolute measurements. An other magnetic recording instruments at the observatory is the three-component pulsation magnetometer of the Sodankylä Geophysical Observatory. The Air quality department of FMI makes continuous airborne radioactivity recording. Hydrological and meteorological observations are part of the daily routine. The Helsinki University operates the seismic station.

The observatory has a magnetic calibration and test laboratory consisting of the magnetometer calibration system and the magnetic cleanliness measuring system. The calibrations are performed with three component coils and a computer controlled measuring system. Angles between sensors are measured with accuracy better than one minute of arc and the transformation factors with 0.03% accuracy. The facility includes a temperature test system for the magnetometer sensors with good temperature control and a non-tilting pillar. The magnetic cleanliness measuring system is used for testing satellite instruments and materials. Objects are measured on a rotating table inside the big calibration coils, which can reduce the Earth's field down to zero. Common software is used both for magnetic calibrations and cleanliness measurements. The demagnetizing system operates at 3Hz and can generate alternating fields from 5mT down to 30nT.

### 2 Recording instruments

In the variation room the Danish suspended flux gate magnetometer (FGE) is the primary instrument. The Ukrainian LEMI-004 flux gate magnetometer is the second variometer. The sensors are directed in geographic north and east directions measuring the X, Y and Z components. The temperature in the variometer room is kept constant at  $18^{\circ}C$ . Analog voltages from the magnetometers are AD-converted in the variation room and the digital data are transferred through optical wires to the computers in the main observatory building. The Linux based software stores the data in three files as one-second, ten-seconds and one-minute averages. Timing is based on GPS time sheared through the local network. The standard one-minute values are averages over one minute periods starting and ending at a half minute

(e.g. 59:30 - 00:30, 00:30 - 01:30, 01:30 - 02:30). The given time is the starting minute at the centre of the period (00, 01, 02 etc.).

### 3 Absolute measurements

The total field (F) was measured by a Polish PMP-7 proton precession magnetometer and declination and inclination with a DI-flux-magnetometer, which consists of a flux-gate element mounted on the telescope of a non-magnetic Zeiss-Jena theodolite (010B). The absolute measurements were done on average once a week. The base line values as determined for the FGE are shown in Fig. 2.

### 4 Data processing and dissemination

In the processing the final base line values and sensitivities were used and hourly mean values were calculated. The measured base line values were followed closer than half a nanoTesla. All the digital data were visually inspected on the computer screen.

Tables showing the three-hour K-indices were computed from 10 s data using the 'FMI' algorithm. The upper limit for K=9 is 750nT.

Daily magnetograms and K-indices were published in the monthly bulletin together with the Sodankylä Geophysical Observatory of the University of Oulu. The bulletin contains daily magnetograms of Nurmijärvi, Hankasalmi, Oulujärvi and Sodankylä, daily ionosond and riometer recordings and cosmic ray data.

Daily files of minute data were sent by e-mail for the INTERMAGNET system. INTERMAGNET CD-ROM 2001 was published in 2003 containing minute data, annual means and base line values from Nurmijärvi together with data from 82 other magnetic observatories.

### 5 IMAGE stations

The IMAGE magnetometer network consisted at the end of 2003 of 28 stations from Tartu in Estonia to Ny Ålesund on Svalbard. The principal investigator of this international project was Ari Viljanen at GEO. The observatory operated eight IMAGE stations in Finland, one in Estonia and one in northern Norway. At seven of the stations the service and absolute measurements were done in co-operation with the Sodankylä Geophysical Observatory of the Oulu University.

The last German fluxgate magnetometer at MAS (Norway) was replaced by a new Ukrainian LEMI fluxgate magnetometer.

The data sampling interval at the IMAGE stations was 10 seconds and the 10-s values were averages over the seconds 00-10, 10-20, 20-30 etc. The time stamp given for the 10-second period was the first second of that period.

Data from most of the stations was transmitted through ISDN modems to Nurmijärvi. TAR in Estonia had a direct network connection and OUJ and MAS were still operated through ordinary modems. The data of the eight stations was processed and inspected at the observatory and was sent to the AVA for IMAGE filing. Data transmission from the other IMAGE stations was also operated at the observatory.

The annual mean values are calculated for Oulujärvi  $(64^{\circ}31'N, 27^{\circ}14'E)$  since 1993 (all days):

| Year   | X     | Y    | ${ m Z}$ |
|--------|-------|------|----------|
| 1993.5 | 12971 | 1912 | 50591    |
| 1994.5 | 12953 | 1935 | 50616    |
| 1995.5 | 12951 | 1963 | 50642    |
| 1996.5 | 12937 | 1994 | 50664    |
| 1997.5 | 12926 | 2023 | 50701    |
| 1998.5 | 12912 | 2051 | 50742    |
| 1999.5 | 12902 | 2077 | 50780    |
| 2000.5 | 12892 | 2108 | 50828    |
| 2001.5 | 12889 | 2136 | 50867    |
| 2002.5 | 12886 | 2168 | 50914    |
| 2003.5 | 12870 | 2200 | 50961    |

### 6 SAMNET stations

The observatory provided 1-second data from the stations KIL, OUJ, HAN and NUR for the SAMNET magnetometer network operated by the Lancaster University in United Kingdom.

### 7 Personnel

Ph.D. Kari Pajunpää, head of the observatory

M.Sc. Anja Koistinen, assistant

Mr. Pentti Posio, technician

Ms. Tuulikki Kangas, secretary

# 8 IMAGE Magnetometer Network

# **IMAGE** Magnetometer Network

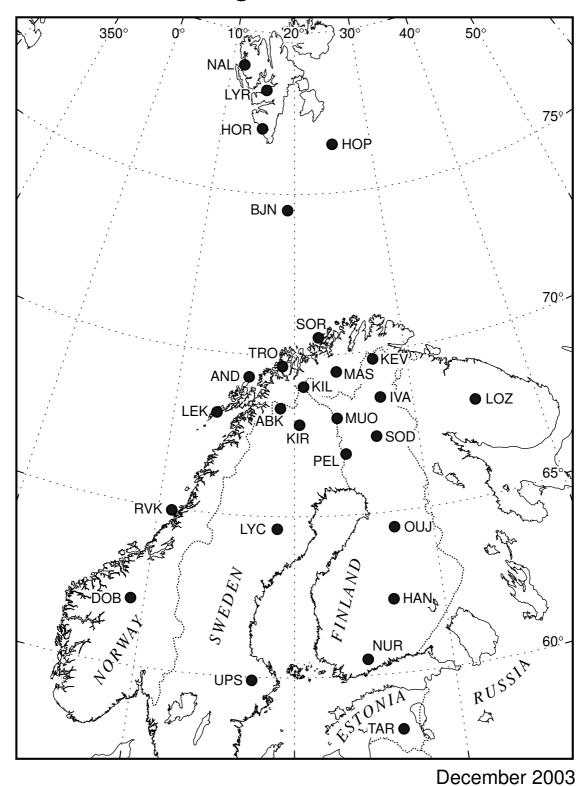
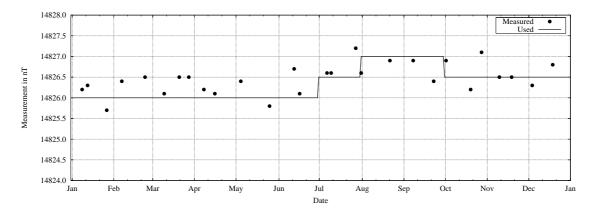
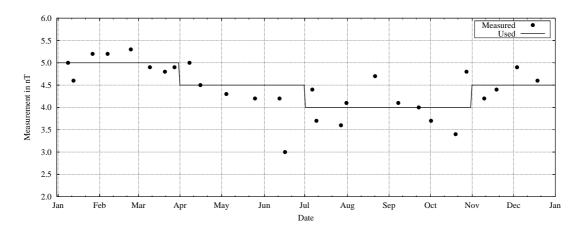


Figure 1: Map of IMAGE magnetometer network

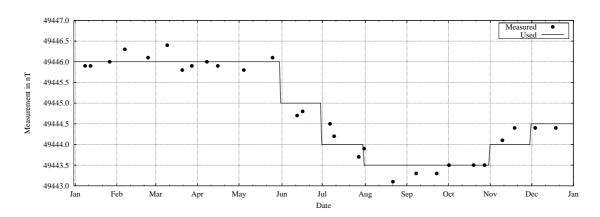
## 9 Baseline Measurements for FGE



(a) Baseline measurements for X component



(b) Baseline measurements for Y component



(c) Baseline measurements for Z component

Figure 2: Baseline measurements

# 10 Tables of Hourly Means of X, Y, and Z

Explanations of the tables:

- X is the North component of the magnetic vector
- Y is the East component of the magnetic vector
- ullet **Z** is the vertical component of the magnetic vector
- The unit is nanotesla (nT) =  $10^{-9}$  T
- $\bullet$  The time is universal time (UTC). The local time is UTC + 2 h (during the daylight saving time UTC + 3 h)

Nurmijärvi Finland  $\label{eq:market} \mbox{January 2003 North component X in nT (X = 14900 nT + tabular values)}$ 

| Day   | Char | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1     |      | 2   | 4   | 4   | 2   | 10  | 7   | 5   | -7  | -6  | -9  | -10 | -11 | -9  | -15 | -11 | -7  | -1  | 2   | 1   | 0   | -5  | -17 | -18 | -6  | -4   |
| 2     |      | -6  | -2  | -2  | 1   | 1   | 2   | 3   | -1  | -6  | -11 | -12 | -9  | -4  | -3  | -8  | -11 | -7  | -10 | -13 | 0   | 5   | 6   | 7   | 7   | -3   |
| 3     |      | 15  | 1   | -2  | 1   | 4   | 5   | 8   | 8   | 4   | 0   | 3   | 1   | 9   | 2   | 14  | 8   | 29  | -27 | -22 | -15 | -11 | -21 | -22 | -36 | -2   |
| 4     |      | 0   | 2   | -17 | -18 | -17 | -14 | -10 | -12 | -17 | -19 | -14 | -11 | -12 | -13 | -9  | -10 | 5   | -4  | -10 | 2   | -5  | -10 | -10 | -5  | -9   |
| 5     |      | -5  | -6  | -5  | -5  | -4  | -5  | -5  | -2  | -7  | -8  | -10 | -7  | -3  | 4   | 0   | -5  | 1   | 1   | -10 | -6  | -4  | 13  | -7  | -4  | -4   |
| 6     | Q    | -1  | 0   | 1   | 1   | 2   | 2   | 0   | -4  | -9  | -14 | -11 | -5  | 1   | 4   | 4   | 2   | 5   | 6   | 4   | -2  | 0   | -1  | 8   | -1  | 0    |
| 7     | Q    | -6  | -7  | -2  | 2   | 1   | 0   | 0   | 2   | 1   | -5  | -6  | -1  | -1  | -3  | -4  | -5  | -3  | -2  | 0   | -13 | -3  | -4  | -5  | -6  | -3   |
| 8     | Q    | -2  | -2  | -3  | 0   | 4   | 3   | -1  | -5  | -10 | -7  | -9  | -4  | 4   | 7   | 6   | 7   | 8   | 8   | 8   | 4   | 3   | -2  | 1   | 0   | 1    |
| 9     | Q    | 0   | 0   | -2  | 0   | 1   | 3   | 4   | 3   | -1  | -6  | -7  | -4  | 1   | 4   | 8   | 10  | 13  | 14  | 5   | -5  | -1  | -2  | 6   | 4   | 2    |
| 10    |      | 5   | 1   | -3  | 3   | 11  | 10  | 7   | 4   | 1   | -2  | -2  | 3   | 6   | -6  | 1   | -1  | 2   | -12 | -12 | -14 | -4  | -2  | -11 | -9  | -1   |
| 11    |      | -18 | -17 | -9  | 9   | -3  | -6  | -7  | -11 | -14 | -19 | -18 | -17 | -13 | -6  | -5  | -2  | 0   | 0   | 3   | -8  | -1  | 7   | -8  | -6  | -7   |
| 12    |      | -9  | -9  | -8  | -7  | -6  | 0   | -2  | -2  | -7  | -6  | -10 | -10 | -6  | -3  | -3  | -7  | -2  | -6  | -19 | -9  | -2  | -3  | 1   | 0   | -6   |
| 13    |      | -10 | -11 | 0   | -1  | -5  | -7  | -8  | -10 | -9  | -7  | -4  | -3  | -5  | -2  | 1   | 2   | 6   | 7   | 7   | 7   | 5   | 3   | -1  | 6   | -2   |
| 14    |      | -4  | -8  | -3  | -7  | -7  | 3   | -3  | 1   | 1   | -5  | -13 | -15 | -11 | -7  | -5  | 1   | 2   | 1   | 2   | 3   | 2   | 3   | -5  | -3  | -3   |
| 15    |      | -2  | -1  | 6   | 2   | 2   | 4   | 1   | 2   | 5   | 0   | -6  | 0   | 0   | -3  | -6  | -2  | -3  | -2  | 5   | 2   | 4   | 1   | -2  | -5  | 0    |
| 16    | Q    | -6  | -4  | -2  | -3  | -3  | -2  | -2  | -3  | -5  | -8  | -9  | -9  | -17 | -10 | -3  | -1  | 2   | 3   | 1   | 0   | -8  | -5  | -8  | -9  | -5   |
| 17    |      | -5  | -5  | -5  | -3  | -1  | 2   | 4   | 7   | 5   | 2   | -7  | 1   | 3   | 2   | 5   | -4  | -3  | -8  | -9  | -6  | -1  | 0   | -2  | 1   | -1   |
| 18    |      | 0   | 4   | 7   | 6   | 9   | 14  | 11  | 10  | 12  | 6   | -5  | -8  | -5  | -28 | -23 | -9  | -15 | -12 | -10 | -14 | -8  | -22 | -21 | -15 | -5   |
| 19    |      | 0   | 5   | 5   | 8   | 8   | 8   | 0   | -7  | -6  | -22 | -28 | -17 | -21 | -11 | -20 | -29 | -25 | -21 | -13 | -12 | -3  | -4  | -17 | -11 | -10  |
| 20    |      | -11 | -10 | 12  | 6   | -7  | -3  | -2  | -3  | -7  | -13 | -16 | -23 | -17 | -11 | -13 | -10 | -19 | -30 | -20 | -9  | -2  | -12 | -17 | -29 | -11  |
| 21    |      | -7  | 7   | -4  | 1   | -7  | -4  | -3  | -1  | -13 | -11 | -11 | -28 | -20 | -23 | -26 | -14 | -8  | -10 | -2  | -5  | -2  | 5   | 11  | 3   | -7   |
| 22    | D    | -18 | -18 | -7  | -4  | -3  | 1   | 0   | 3   | 1   | -11 | -20 | -24 | -17 | -10 | -10 | -5  | -12 | -22 | -3  | -9  | -4  | 17  | -14 | -14 | -8   |
| 23    | D    | -15 | -7  | -38 | -11 | 8   | 3   | -2  | -2  | -2  | -5  | -8  | -7  | -13 | -5  | -15 | -7  | -9  | -19 | -7  | -3  | -6  | -7  | -10 | -24 | -9   |
| 24    |      | -20 | -18 | 0   | -5  | -2  | -1  | -2  | -4  | -13 | -15 | -18 | -15 | -7  | -5  | -4  | -28 | -24 | -20 | 0   | -12 | -18 | -2  | -42 | -43 | -13  |
| 25    | D    | -35 | -36 | -24 | -12 | -13 | -6  | -30 | -33 | -26 | -23 | -24 | -21 | -33 | -22 | -18 | -7  | -11 | -9  | -13 | -9  | -9  | -11 | -4  | -20 | -19  |
| 26    | D    | -17 | -2  | 1   | -5  | -7  | 7   | -1  | -10 | -15 | -13 | -13 | -24 | -13 | -12 | -20 | -14 | -19 | -25 | -19 | 11  | -15 | -19 | -18 | -8  | -11  |
| 27    |      | -3  | -1  | -5  | -8  | -4  | 1   | -1  | -4  | -11 | -17 | -20 | -19 | -12 | -3  | 0   | 2   | 7   | 22  | 12  | 9   | 3   | 16  | 4   | 9   | -1   |
| 28    |      | -17 | -33 | -21 | -29 | 3   | 8   | 2   | 1   | -5  | -13 | -8  | -7  | -5  | 3   | 7   | 5   | 7   | 6   | 5   | 1   | -5  | 0   | -3  | -8  | -4   |
| 29    |      | -7  | -2  | 0   | -2  | 0   | 2   | -1  | -4  | -5  | -1  | -5  | -19 | -14 | -19 | -14 | -8  | 7   | 1   | -18 | -17 | -13 | -39 | -48 | -40 | -11  |
| 30    | D    | -81 | -87 | -32 | -14 | -10 | -19 | -5  | -2  | -10 | -23 | -25 | -30 | -22 | -9  | -16 | -8  | -8  | -18 | -26 | -16 | -15 | -13 | -15 | -20 | -22  |
| 31    |      | -7  | -30 | -7  | -8  | -12 | -11 | -14 | -28 | -33 | -37 | -29 | -55 | -22 | -14 | -14 | -14 | -15 | -20 | -15 | -8  | -9  | -14 | -17 | -15 | -19  |
| All   |      | -9  | -9  | -5  | -3  | -1  | 0   | -2  | -4  | -7  | -10 | -12 | -13 | -9  | -7  | -6  | -5  | -3  | -7  | -6  | -5  | -4  | -4  | -9  | -10 | -6   |
| Quiet |      | -3  | -3  | -2  | 0   | 1   | 1   | 0   | -1  | -5  | -8  | -8  | -5  | -2  | 0   | 2   | 3   | 5   | 6   | 4   | -3  | -2  | -3  | 0   | -2  | -1   |
| Dist. |      | -33 | -30 | -20 | -9  | -5  | -3  | -8  | -9  | -11 | -15 | -18 | -21 | -20 | -11 | -16 | -8  | -12 | -18 | -13 | -5  | -10 | -7  | -12 | -17 | -14  |

January 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   Char   1  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
|---|-------|------|-----|----|----|----|----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|
| 28  |       | Char | 1   |    |    |    |    |     | 7   |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 3   | -     |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 4         74         31         44         30         26         8         18         19         13         16         8         5         9         10         8         18         35         15         14         55         22         23         17         36         28         21         20         22         19         20         22         19         10         10         11         10         12         14         14         19         22         20         31         16           7         Q         23         20         18         16         16         17         18         19         19         16         14         12         -1         -4         -5         -7         -5         1         -2         37         23         23         31         39         30         13         16         18         10         19         16         14         12         -1         -2         -2         2         7         -5         5         1         -2         37         23         33         38         38         38         31         13         20         10         10         10         <   |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 5   | 3     |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 6 Q 23 20 18 16 16 17 18 19 18 14 9 5 5 5 10 11 10 12 12 14 14 19 22 20 31 16 7 Q 28 21 18 19 17 18 19 19 16 14 12 -1 -4 5 -7 5 5 1 -2 37 23 23 31 39 30 16 9 Q 20 19 18 16 13 15 16 15 15 14 7 2 2 2 5 5 9 10 10 15 14 15 22 23 22 22 14 9 9 Q 20 19 18 17 16 18 20 19 16 14 11 5 5 3 6 7 5 5 5 4 5 18 14 25 23 18 13 10 10 14 18 22 17 22 20 18 16 12 5 6 -1 -12 6 -7 -5 5 5 4 5 18 14 25 23 18 13 10 10 14 18 22 17 22 20 18 16 12 5 6 -1 -12 6 7 -7 -5 -4 0 10 32 36 38 38 93 16 11 11 6 6 2 32 3 32 24 20 23 18 16 12 5 6 6 -1 -12 6 4 4 3 6 6 8 6 25 19 21 21 21 21 25 18 18 13 36 28 36 23 24 20 23 18 16 15 13 0 -1 4 4 3 3 6 8 6 25 19 21 21 21 12 12 5 18 18 13 6 16 15 13 0 -1 4 3 6 6 8 6 25 19 21 21 21 21 25 18 18 13 36 28 36 23 24 20 23 18 16 15 13 0 -1 4 4 3 6 6 8 6 25 19 21 22 12 12 12 15 15 12 15 12 15 12 14 14 14 18 18 18 12 10 12 14 14 14 15 14 14 18 18 18 12 11 12 15 15 19 19 13 17 21 18 18 18 18 12 18 12 15 12 15 12 3 -6 4 -1 5 0 10 12 14 15 16 17 16 16 13 14 18 18 12 11 12 15 12 20 12 15 12 20 12 15 12 20 12 14 14 14 15 16 17 16 16 13 14 18 18 12 11 12 14 18 14 14 15 16 17 16 16 13 14 18 18 12 11 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 12 11 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 14 12 11 18 14 18 18 18 12 10 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 12 10 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 12 10 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 12 10 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 12 10 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 12 10 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 12 10 12 15 12 15 12 3 -6 4 -5 4 0 10 12 14 15 16 17 16 16 13 14 18 18 18 14 14 13 11 11 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    | 23 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 5     |      | 37  | 28 | 23 | 19 | 20 | 19  | 20  | 22  | 19 | 20 | 8  | -1 | -2  | 6   | -4  | 7   | -3  | 5   | 16 | 25 | 23 | 17 | 36  | 28 | 16 |
| S   | 6     | Q    | 23  | 20 | 18 | 16 | 16 | 17  | 18  | 19  | 18 | 14 | 9  | 5  | 5   | 10  | 11  | 10  | 12  | 12  | 14 | 14 | 19 | 22 | 20  | 31 | 16 |
| 9   | 7     | Q    | 28  | 21 | 18 | 19 | 17 | 18  | 19  | 19  | 16 | 14 | 12 | -1 | -4  | -5  | -7  | -5  | 1   | -2  | 37 | 23 | 23 | 31 | 39  | 30 | 15 |
| 10  | 8     | Q    | 19  | 19 | 18 | 16 | 13 | 15  | 16  | 15  | 15 | 14 | 7  | 2  | 2   | 5   | 9   | 10  | 10  | 15  | 14 | 15 | 22 | 23 | 22  | 22 | 14 |
| 11  | 9     | Q    | 20  | 19 | 18 | 17 | 16 | 18  | 20  | 19  | 16 | 14 | 11 | 5  | 3   | 6   | 7   | 5   | 5   | 4   | 5  | 18 | 14 | 25 | 23  | 18 | 13 |
| 12  | 10    |      | 14  | 18 | 22 | 17 | 22 | 20  | 18  | 16  | 12 | 5  | 6  | -1 | -12 | -6  | -7  | -5  | -4  | 0   | 10 | 32 | 36 | 38 | 38  | 93 | 16 |
| 12  | 11    |      | 62  | 32 | 32 | 19 | 21 | 20  | 21  | 20  | 20 | 15 | 9  | 3  | 5   | 8   | 5   | 2   | 2   | 4   | 5  | 9  | 18 | 32 | 37  | 28 | 18 |
| 13  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   |       |      |     |    |    |    |    |     |     |     |    |    |    | 0  |     | 4   |     |     |     |     |    |    |    |    |     |    |    |
| 15  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     | 11  |     |     |     |     |    |    |    |    |     |    |    |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 17  | 16    | 0    | 97  | 90 |    | 10 |    | 17  |     |     | 10 | 19 | ۰  |    | e   | 10  | 7   | 11  | 1.4 | 1.4 | 10 |    | 20 | 20 | 20  | 97 | 10 |
| 18  |       | Q    |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    | -  |
| 13  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 20  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 21  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 22 D 70 45 27 6 2 -1 12 21 18 18 18 13 7 4 18 15 15 19 67 50 20 34 38 41 63 26 23 D 61 51 25 33 29 22 17 18 16 18 14 11 11 17 38 19 18 43 18 19 36 43 36 37 27 24 6 1 17 22 22 20 20 20 20 18 3 8 8 9 11 11 18 35 33 57 26 42 60 100 79 27 25 D 40 19 9 13 13 -11 -38 -33 -2 21 25 14 32 45 39 34 21 42 24 20 30 26 32 29 19 26 D 3 32 37 20 4 12 7 9 17 24 24 20 34 8 33 35 30 40 28 53 51 50 57 47 28 27 19 9 19 20 19 23 23 24 24 22 17 9 5 9 14 16 15 5 6 61 01 18 39 47 51 19 28 5 5 9 34 50 7 6 18 25 27 29 23 16 5 8 8 10 9 10 11 13 13 24 54 14 12 22 22 29 18 19 17 18 19 18 43 18 19 36 43 30 47 51 19 20 18 18 19 17 18 17 21 29 31 25 13 12 10 18 8 10 9 18 13 13 12 24 54 12 22 29 18 19 17 18 19 18 18 17 18 18 18 17 18 18 18 17 18 18 18 17 18 18 17 18 19 18 18 17 19 22 24 28 34 33 21 14 18 18 16 16 16 16 16 16 16 16 16 16 16 16 16  | _     |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 23 D 61 51 25 33 29 22 17 18 16 18 14 11 11 17 38 19 18 43 18 19 36 43 36 37 27 24 6 6 1 17 22 22 20 20 20 20 20 18 3 8 8 9 11 11 18 35 33 35 7 26 42 60 100 79 27 25 D 40 19 9 13 13 -11 -38 -33 -2 21 25 14 32 45 39 34 21 42 24 20 30 26 32 29 19 26 D 3 32 37 20 4 12 7 9 17 24 24 20 34 8 8 33 55 30 40 28 53 51 50 57 47 28 27 19 9 19 20 19 23 23 24 24 22 17 9 5 9 14 16 15 5 6 610 18 39 47 51 19 28 59 34 50 7 6 18 25 27 29 23 16 5 8 8 10 9 10 11 13 13 24 54 41 22 22 29 18 19 17 18 17 21 29 31 25 13 12 10 1 8 8 10 1 4 33 12 8 55 64 77 104 77 29 30 D 114 89 51 44 42 43 27 25 27 18 12 10 -8 -20 -13 -25 9 38 39 21 20 24 28 32 27 31 32 50 44 36 23 30 33 31 21 9 4 8 8 7 -2 1 24 1 11 16 15 16 28 32 33 21 34 31 27 26 21 18 18 16 16 16 16 16 16 16 16 5 6 8 8 17 17 19 22 24 28 34 36 36 30 20 20 16 17 34 27 26 21 18 18 18 16 16 16 16 16 16 16 5 6 8 8 17 17 19 22 24 28 34 36 36 36 20 20 20 20 20 20 20 20 20 20 20 20 20 20 2   |       |      |     |    |    |    |    |     |     |     |    |    |    | 16 |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 24  |       |      |     |    |    |    |    |     |     |     | 18 | 18 | 13 | 7  | 4   |     |     |     | 19  |     |    |    |    |    |     |    | -  |
| 25 D 40 19 9 13 13 -11 -38 -33 -2 21 25 14 32 45 39 34 21 42 24 20 30 26 32 29 19 26 D 3 32 37 20 4 12 7 9 17 24 24 20 34 8 33 35 30 40 28 53 51 50 57 47 28 27 19 9 19 20 19 23 23 24 24 22 21 7 9 5 9 14 16 15 5 6 6 10 18 39 47 51 19 28 59 34 50 7 6 18 25 27 29 23 16 5 8 8 8 10 9 10 1 11 13 13 24 54 41 22 22 29 18 19 17 18 17 21 29 31 25 13 12 10 18 -8 -10 1 43 31 28 55 64 77 104 77 29 30 D 114 89 51 44 42 43 27 25 27 18 12 10 -8 -20 -13 -25 9 38 39 21 20 24 28 32 32 27 31 32 50 44 36 23 30 33 31 21 9 4 8 8 7 -2 11 24 1 11 16 15 16 28 32 33 21 All 34 27 26 21 18 18 18 16 16 16 16 16 11 6 5 6 8 8 17 7 10 19 19 22 24 28 34 36 36 20 Cuiet 23 21 19 17 16 17 18 18 18 17 13 9 3 2 5 5 6 8 8 17 17 19 22 26 27 26 27 26 15   |       | D    | 61  | 51 |    |    |    |     |     |     |    |    |    |    |     |     | 38  | 19  |     |     |    |    | 36 | 43 |     |    |    |
| 26 D 3 32 37 20 4 12 7 9 17 24 24 20 34 8 33 35 30 40 28 53 51 50 57 47 28 27 19 9 19 20 19 23 23 24 24 22 17 9 5 9 14 16 15 5 6 10 18 39 47 51 12 29 28 6 59 34 50 7 6 18 25 27 29 23 16 5 8 8 10 9 10 11 13 13 24 54 41 22 22 29 18 19 17 18 17 21 29 31 25 13 12 10 18 -8 -10 14 33 12 8 55 64 77 104 77 29 30 D 114 89 51 44 24 24 32 72 52 71 18 12 10 18 -8 -10 13 -25 9 38 39 21 20 24 28 32 27 31 32 4 27 25 27 18 12 10 18 -8 -20 -13 -25 9 38 39 21 20 24 28 32 33 21 All 34 27 26 27 18 12 10 18 -8 -20 -13 -25 9 38 39 21 20 24 28 32 33 21 All 34 27 26 27 18 12 10 18 -8 -20 -13 -25 9 38 39 21 20 24 28 32 33 21 All 34 27 26 27 18 12 10 18 28 25 56 8 11 17 19 22 24 28 34 36 36 30 20 20 20 24 28 32 33 21 25 25 25 25 25 25 25 25 25 25 25 25 25   |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     |     |     |     |     |     |    |    |    |    |     |    |    |
| 27  | 25    | D    | 40  | 19 | 9  | 13 | 13 | -11 | -38 | -33 | -2 | 21 | 25 | 14 | 32  | 45  | 39  | 34  | 21  | 42  | 24 | 20 | 30 | 26 | 32  | 29 | 19 |
| 28  | 26    | D    | 3   | 32 | 37 | 20 | 4  | 12  | 7   | 9   | 17 | 24 | 24 | 20 | 34  | 8   | 33  | 35  | 30  | 40  | 28 | 53 | 51 | 50 | 57  | 47 | 28 |
| 29  | 27    |      | 19  | 9  | 19 | 20 | 19 | 23  | 23  | 24  | 24 | 22 | 17 | 9  | 5   | 9   | 14  | 16  | 15  | 5   | 6  | 10 | 18 | 39 | 47  | 51 | 19 |
| 30 D 114 89 51 44 42 43 27 25 27 18 12 10 -8 -20 -13 -25 9 38 39 21 20 24 28 32 27 31 32 50 44 36 23 30 33 31 21 9 4 8 7 -2 1 24 1 11 16 15 16 28 32 33 21 31 31 34 27 26 21 18 18 16 16 16 16 16 16 16 16 16 17 6 5 6 8 11 17 19 22 24 28 34 36 36 22 Quiet 23 21 19 17 16 17 18 18 17 13 9 3 2 5 5 5 6 8 8 17 7 19 22 26 27 26 15   | 28    |      | 59  | 34 | 50 | 7  | 6  | 18  | 25  | 27  | 29 | 23 | 16 | 5  | 8   | 8   | 10  | 9   | 10  | 11  | 13 | 13 | 24 | 54 | 41  | 22 | 22 |
| 31 32 50 44 36 23 30 33 31 21 9 4 8 7 -2 1 24 1 11 16 15 16 28 32 33 21 All 34 27 26 21 18 18 16 16 16 16 16 11 6 5 6 8 11 17 19 22 24 28 34 36 36 20 Quiet 23 21 19 17 16 17 18 18 17 13 9 3 2 5 5 6 8 17 17 19 22 26 27 26 15   | 29    |      | 18  | 19 | 17 | 18 | 17 | 21  | 29  | 31  | 25 | 13 | 12 | 10 | 1   | -8  | -10 | 1   | 43  | 31  | 28 | 55 | 64 | 77 | 104 | 77 | 29 |
| All 34 27 26 21 18 18 16 16 16 16 11 6 5 6 8 11 17 19 22 24 28 34 36 36 20 Quiet 23 21 19 17 16 17 18 18 17 13 9 3 2 5 5 6 8 8 17 19 22 26 27 26 15   | 30    | D    | 114 | 89 | 51 | 44 | 42 | 43  | 27  | 25  | 27 | 18 | 12 | 10 | -8  | -20 | -13 | -25 | 9   | 38  | 39 | 21 | 20 | 24 | 28  | 32 | 27 |
| All 34 27 26 21 18 18 16 16 16 16 11 6 5 6 8 11 17 19 22 24 28 34 36 36 20 Quiet 23 21 19 17 16 17 18 18 17 13 9 3 2 5 5 6 8 8 17 19 22 26 27 26 15   | 31    |      | 32  | 50 | 44 | 36 | 23 | 30  | 33  | 31  | 21 | 9  | 4  | 8  | 7   | -2  | 1   | 24  | 1   | 11  | 16 | 15 | 16 | 28 | 32  | 33 | 21 |
|   |       |      |     |    |    |    |    |     |     |     |    | 16 | 11 |    | 5   |     | 8   |     | 17  | 19  |    |    | 28 |    |     |    |    |
|   | Quiet |      | 23  | 21 | 19 | 17 | 16 | 17  | 18  | 18  | 17 | 13 | 9  | 3  | 2   | 5   | 5   | 6   | 8   | 8   | 17 | 19 | 22 | 26 | 27  | 26 | 15 |
| Dist. 58 47 30 23 18 13 5 8 15 20 18 12 15 14 22 15 19 46 32 27 34 36 39 42 25  |       |      |     |    |    |    |    |     |     |     |    |    |    |    |     | 14  |     |     |     |     |    |    |    |    |     |    |    |

January 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1   | 2   | 3   | 4   | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18  | 19  | 20 | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|----|-----|-----|-----|-----|------|
| 1     |      | 19  | 19  | 17  | 16  | 14  | 15 | 18 | 18 | 18 | 20 | 19 | 22 | 28 | 28 | 28 | 29 | 27  | 24  | 22  | 22 | 24  | 24  | 10  | -5  | 20   |
| 2     |      | 9   | 13  | 15  | 16  | 18  | 19 | 20 | 19 | 20 | 22 | 22 | 21 | 24 | 24 | 25 | 28 | 27  | 31  | 33  | 28 | 22  | 20  | 17  | 13  | 21   |
| 3     |      | -2  | 6   | 14  | 17  | 17  | 18 | 19 | 20 | 21 | 19 | 16 | 16 | 19 | 21 | 25 | 35 | 76  | 69  | 100 | 96 | 65  | 57  | 24  | 22  | 33   |
| 4     |      | 12  | -23 | -16 | 2   | 9   | 18 | 22 | 26 | 27 | 31 | 32 | 32 | 35 | 35 | 34 | 36 | 31  | 26  | 35  | 32 | 18  | 25  | 19  | .7  | 21   |
| 5     |      | 15  | 15  | 17  | 19  | 20  | 21 | 25 | 24 | 22 | 22 | 22 | 21 | 23 | 23 | 25 | 29 | 28  | 34  | 38  | 33 | 26  | 7   | 13  | 23  | 23   |
| 6     | Q    | 22  | 21  | 20  | 20  | 19  | 20 | 20 | 21 | 22 | 19 | 18 | 20 | 22 | 22 | 20 | 20 | 21  | 21  | 22  | 24 | 25  | 21  | -3  | 2   | 19   |
| 7     | Q    | 13  | 17  | 20  | 20  | 19  | 20 | 20 | 19 | 17 | 16 | 16 | 16 | 20 | 21 | 24 | 29 | 34  | 39  | 41  | 36 | 32  | 29  | 26  | 24  | 24   |
| 8     | Q    | 22  | 21  | 22  | 20  | 20  | 20 | 20 | 20 | 20 | 20 | 21 | 20 | 20 | 18 | 18 | 18 | 19  | 21  | 20  | 21 | 24  | 22  | 21  | 20  | 20   |
| 9     | Q    | 18  | 18  | 17  | 17  | 17  | 18 | 18 | 18 | 17 | 16 | 16 | 16 | 19 | 20 | 18 | 17 | 17  | 19  | 23  | 31 | 30  | 31  | 25  | 23  | 20   |
| 10    |      | 21  | 20  | 18  | 17  | 15  | 14 | 14 | 15 | 17 | 18 | 18 | 18 | 21 | 26 | 26 | 31 | 34  | 44  | 54  | 59 | 45  | 41  | 34  | 40  | 27   |
| 11    |      | 13  | 14  | 14  | 6   | 12  | 18 | 22 | 23 | 24 | 24 | 23 | 23 | 27 | 28 | 26 | 26 | 27  | 30  | 34  | 36 | 32  | 24  | 13  | 24  | 23   |
| 12    |      | 24  | 23  | 21  | 21  | 20  | 18 | 14 | 15 | 22 | 21 | 18 | 21 | 26 | 25 | 24 | 25 | 26  | 32  | 42  | 38 | 32  | 30  | 28  | 22  | 25   |
| 13    |      | 20  | 12  | 9   | 17  | 16  | 20 | 20 | 18 | 18 | 19 | 20 | 22 | 26 | 25 | 24 | 25 | 26  | 25  | 25  | 24 | 22  | 23  | 24  | 25  | 21   |
| 14    |      | 4   | 9   | 8   | 10  | 11  | 14 | 13 | 19 | 22 | 20 | 18 | 21 | 26 | 25 | 24 | 23 | 23  | 23  | 23  | 23 | 23  | 24  | 21  | 24  | 19   |
| 15    |      | 22  | 17  | 10  | 13  | 15  | 15 | 14 | 14 | 16 | 19 | 21 | 25 | 24 | 25 | 26 | 27 | 29  | 33  | 26  | 25 | 23  | 19  | 18  | 16  | 21   |
| 16    | Q    | 20  | 21  | 19  | 18  | 20  | 21 | 21 | 20 | 21 | 20 | 20 | 20 | 23 | 26 | 25 | 23 | 22  | 22  | 25  | 26 | 23  | 24  | 17  | 18  | 21   |
| 17    |      | 18  | 17  | 17  | 17  | 19  | 18 | 19 | 15 | 16 | 19 | 19 | 20 | 20 | 20 | 22 | 22 | 22  | 25  | 28  | 26 | 22  | 18  | 15  | 12  | 19   |
| 18    |      | 14  | 14  | 13  | 14  | 15  | 14 | 13 | 12 | 13 | 15 | 14 | 15 | 23 | 35 | 36 | 29 | 45  | 46  | 40  | 36 | 32  | 13  | 2   | -7  | 21   |
| 19    |      | -12 | 2   | 13  | 15  | 15  | 16 | 14 | 13 | 14 | 18 | 23 | 26 | 33 | 35 | 46 | 77 | 94  | 70  | 18  | 26 | 4   | 4   | 15  | 19  | 25   |
| 20    |      | 18  | 1   | -56 | -57 | -17 | 10 | 17 | 18 | 20 | 21 | 21 | 23 | 25 | 27 | 33 | 31 | 33  | 36  | 30  | 25 | 3   | 6   | 3   | -7  | 11   |
| 21    |      | -1  | -21 | -5  | 9   | 8   | 12 | 17 | 19 | 20 | 25 | 24 | 29 | 33 | 33 | 38 | 39 | 29  | 30  | 29  | 22 | 23  | 19  | 2   | -26 | 17   |
| 22    | D    | -19 | -6  | -5  | 2   | 7   | 11 | 21 | 23 | 21 | 22 | 24 | 25 | 30 | 35 | 31 | 28 | 33  | 48  | 34  | 28 | 22  | -2  | -4  | -76 | 14   |
| 23    | D    | -42 | -30 | -72 | -37 | -2  | 5  | 12 | 16 | 18 | 20 | 18 | 19 | 26 | 29 | 43 | 33 | 33  | 44  | 33  | 31 | 29  | 25  | 18  | 3   | 11   |
| 24    |      | -15 | -40 | -23 | 8   | 17  | 20 | 22 | 22 | 22 | 23 | 23 | 26 | 27 | 27 | 28 | 45 | 56  | 75  | 40  | 32 | 6   | -16 | -31 | -52 | 14   |
| 25    | D    | -14 | -15 | -2  | 8   | 11  | 13 | 9  | 13 | 20 | 47 | 41 | 38 | 52 | 59 | 66 | 51 | 48  | 48  | 43  | 35 | 33  | 26  | 13  | 1   | 27   |
| 26    | D    | -62 | -15 | 3   | 11  | 14  | 14 | 18 | 19 | 24 | 27 | 27 | 29 | 41 | 39 | 49 | 42 | 50  | 51  | 41  | 25 | 15  | 8   | -15 | -15 | 18   |
| 27    |      | 8   | 15  | 19  | 23  | 24  | 23 | 23 | 23 | 23 | 24 | 25 | 25 | 28 | 29 | 27 | 25 | 23  | 21  | 22  | 22 | 24  | 11  | 4   | 2   | 21   |
| 28    |      | 1   | -11 | 2   | 8   | 2   | 4  | 14 | 17 | 23 | 27 | 25 | 25 | 23 | 25 | 25 | 23 | 22  | 22  | 22  | 24 | 29  | 11  | 13  | 23  | 17   |
| 29    |      | 22  | 19  | 18  | 20  | 21  | 22 | 24 | 23 | 21 | 22 | 23 | 24 | 32 | 36 | 42 | 41 | 66  | 26  | 55  | 48 | -22 | -33 | -36 | -46 | 20   |
| 30    | D    | -83 | -58 | -52 | -7  | 14  | 22 | 15 | 16 | 19 | 24 | 29 | 29 | 45 | 55 | 51 | 56 | 139 | 144 | 103 | 60 | 39  | 33  | 28  | 25  | 31   |
| 31    |      | -5  | -8  | 14  | 4   | 6   | 16 | 25 | 27 | 28 | 30 | 36 | 44 | 47 | 43 | 56 | 74 | 65  | 61  | 53  | 46 | 41  | 43  | 40  | 37  | 34   |
| All   |      | 3   | 3   | 4   | 9   | 13  | 16 | 18 | 19 | 20 | 22 | 22 | 24 | 28 | 30 | 32 | 33 | 40  | 40  | 37  | 34 | 25  | 19  | 12  | 6   | 21   |
| Quiet |      | 19  | 20  | 19  | 19  | 19  | 20 | 20 | 20 | 19 | 18 | 18 | 18 | 21 | 21 | 21 | 22 | 23  | 24  | 26  | 28 | 27  | 25  | 17  | 17  | 21   |
| Dist. |      | -44 | -25 | -25 | -5  | 9   | 13 | 15 | 18 | 21 | 28 | 28 | 28 | 39 | 43 | 48 | 42 | 61  | 67  | 50  | 36 | 28  | 18  | 8   | -12 | 20   |

Nurmijärvi Finland  $\label{eq:final} February 2003 \mbox{ North component } X \mbox{ in } nT \mbox{ } (X=14900 \mbox{ } nT+tabular \mbox{ values})$ 

| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  |
|---|---|
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | 4 -30 -21<br>44 -29 -22<br>-7 -5 -15<br>-13 -17 -14<br>-7 -10 -19<br>2 -14 -15<br>-8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9    |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | .44 -29 -22<br>-7 -5 -15<br>.13 -17 -14<br>-7 -10 -19<br>2 -14 -15<br>.30 -22 -16<br>-8 13 -14<br>-7 -3 -13<br>.15 -21 -7<br>.11 -35 -5<br>2 4 -9 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -7 -5 -15<br>13 -17 -14<br>-7 -10 -19<br>2 -14 -15<br>30 -22 -16<br>-8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>11 -35 -5<br>2 4 -9                   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -13 -17 -14<br>-7 -10 -19<br>2 -14 -15<br>30 -22 -16<br>-8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9                              |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -7 -10 -19<br>2 -14 -15<br>30 -22 -16<br>-8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | 2 -14 -15<br>30 -22 -16<br>-8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | 30 -22 -16<br>-8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -8 13 -14<br>-7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -7 -3 -13<br>-15 -21 -7<br>-11 -35 -5<br>2 4 -9   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -15 -21 -7<br>-11 -35 -5<br>2 4 -9  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -11 -35 -5<br>2 4 -9  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | 2 4 -9  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     |   |
| 166   |   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                     | -12 -10 -14   |
| 18  | -12 5 -7  |
| 19 3 -2 -3 2 0 0 -2 0 0 -5 -4 0 -8 -3 -5 -8 0 8 8 9 12 6                                  | 22 13 -4  |
|   | 15 10 2   |
|   | 17 -8 1   |
| 20 -1 0 7 10 11 3 -3 -2 -8 -9 -33 -22 -14 -10 -8 0 -1 -6 31 2 15 -14                      | 5 5 -2  |
| 21 0 -1 -3 -18 -9 4 8 2 -10 -15 -15 -14 -7 -3 -4 -6 -29 -8 -4 -8 22 -5                    | -5 -3 -6  |
| 22 -3 0 5 -5 4 6 5 -1 -6 -21 -16 -20 -9 -16 -19 -7 0 1 5 4 -1                             | 1 -1 -5   |
| 23 Q 7 0 -2 1 3 3 4 2 -3 -7 -8 -8 -8 -24 -15 -7 -9 -12 8 2 0 11                           | 1 -6 -3   |
| 24 Q -3 -5 0 4 4 5 4 2 -2 -6 -4 -16 -14 -14 -7 1 -1 -1 4 4 -1 2                           | 7 4 -1  |
| 25 Q 0 -4 0 4 5 6 5 -3 -9 -9 -12 -12 -2 -3 2 1 3 1 -2 1 3 4                               | 6 8 0   |
| 26 5 6 6 7 11 16 10 -4 -16 -27 -23 -14 -18 -17 -5 -4 -4 -2 9 12 8 5                       | -46 -16 -4  |
| 27 D -48 -87 -101 -24 -12 -10 -15 -22 -34 -33 -37 -15 -9 7 -2 -6 -22 -21 -15 -58 -29 -95  | -15 -3 -29  |
| 28 -24 -12 -10 -9 -7 -6 -10 -15 -38 -47 -30 -34 -19 -15 -24 -5 -4 -28 -44 -50 -34 -14     | -18 -13 -21   |
|   |   |
|   |   |
| All -15 -13 -11 -7 -4 -1 -2 -8 -15 -19 -21 -19 -17 -13 -11 -2 -8 -8 -7 -12 -6 -12         | -10 -10 -11   |
| Quiet -8 -9 -6 -1 2 5 3 -3 -7 -11 -12 -15 -11 -14 -8 -2 -2 -3 0 1 1 3                     | -1 -7 -4  |
| Dist34 -38 -34 -17 -13 -5 -10 -20 -31 -30 -30 -25 -19 -12 -12 -24 -13 -18 -12 -39 -25 -47 |   |

February 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char |    |     |     |    |    |    |    |    | _  |    |    |    |     |     |     |     |     |    |    |     |    |    |    |    |      |
|-------|------|----|-----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|------|
|       | Chai | 1  | 2   | 3   | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20  | 21 | 22 | 23 | 24 | Mean |
| 1     | -    | 27 | 35  | 34  | 29 | 26 | 27 | 28 | 30 | 25 | 21 | 19 | 13 | 11  | 13  | 4   | -1  | 15  | 12 | 14 | 21  | 99 | 84 | 65 | 98 | 31   |
| 2     | D    | 99 | 152 | 143 | 51 | 15 | 30 | 10 | 37 | 2  | 9  | 14 | -3 | 14  | 3   | -1  | 3   | 18  | 6  | 54 | 104 | 63 | 89 | 66 | 99 | 45   |
| 3     | D    | 83 | 64  | 67  | 47 | 34 | 28 | 33 | 29 | 25 | 21 | 10 | 23 | 7   | 27  | 13  | 5   | 12  | 54 | 63 | 36  | 32 | 49 | 56 | 69 | 37   |
| 4     | D    | 30 | 52  | 76  | 59 | 57 | 31 | 34 | 34 | 5  | -6 | 11 | 7  | 15  | 15  | 19  | 22  | 18  | 16 | 68 | 47  | 40 | 44 | 57 | 54 | 34   |
| 5     |      | 52 | 40  | 38  | 41 | 35 | 22 | 31 | 34 | 28 | 26 | 19 | 6  | 11  | 2   | 14  | 19  | 13  | 35 | 17 | 29  | 38 | 48 | 28 | 29 | 27   |
| 6     |      | 29 | 14  | 17  | 20 | 20 | 24 | 24 | 22 | 23 | 10 | 8  | -4 | -3  | -10 | 8   | -14 | -18 | 2  | 22 | 44  | 48 | 45 | 35 | 29 | 17   |
| 7     |      | 15 | 15  | 30  | 27 | 24 | 24 | 22 | 22 | 23 | 11 | -1 | 0  | -5  | -3  | -3  | -3  | 4   | 5  | 21 | 55  | 53 | 31 | 25 | 37 | 18   |
| 8     |      | 39 | 25  | 35  | 25 | 21 | 28 | 30 | 29 | 24 | 26 | 10 | 1  | 1   | 1   | 9   | 4   | 7   | 15 | 40 | 40  | 32 | 31 | 52 | 69 | 25   |
| 9     |      | 52 | 57  | 39  | 30 | 33 | 27 | 27 | 28 | 22 | 21 | 13 | 9  | -1  | 4   | -12 | 9   | 6   | 57 | 42 | 40  | 46 | 71 | 61 | 44 | 30   |
| 10    |      | 67 | 75  | 51  | 27 | 32 | 17 | -2 | 14 | 21 | 19 | 14 | 11 | -2  | -1  | 4   | 5   | 3   | 7  | 30 | 42  | 40 | 32 | 40 | 69 | 26   |
| 11    | Q    | 69 | 56  | 48  | 42 | 39 | 27 | 20 | 27 | 30 | 22 | 22 | 14 | 4   | -1  | -1  | 0   | 1   | -6 | 10 | 19  | 20 | 22 | 25 | 26 | 22   |
| 12    |      | 24 | 26  | 24  | 21 | 18 | 25 | 23 | 25 | 26 | 10 | 10 | 8  | 3   | 1   | 5   | 3   | 47  | 17 | 15 | 29  | 47 | 48 | 60 | 58 | 24   |
| 13    | Q    | 33 | 17  | 20  | 24 | 23 | 20 | 21 | 23 | 24 | 22 | 9  | 8  | 5   | 12  | 13  | 13  | 13  | 14 | 16 | 17  | 17 | 18 | 56 | 85 | 22   |
| 14    |      | 65 | 31  | 34  | 26 | 14 | 9  | 18 | 15 | 14 | 9  | 13 | 3  | 10  | 0   | 4   | 9   | 11  | 15 | 40 | 14  | 24 | 29 | 18 | 38 | 19   |
| 15    | D    | 55 | 41  | 27  | 22 | 1  | 19 | 17 | 18 | 16 | 4  | -1 | 4  | 4   | 3   | 31  | 27  | 97  | 32 | 23 | 26  | 35 | 23 | 35 | 13 | 24   |
| 16    |      | 17 | 14  | 25  | 26 | 26 | 18 | 5  | 11 | 14 | 16 | 5  | 8  | 12  | 19  | 14  | 12  | 27  | 43 | 26 | 37  | 64 | 31 | 32 | 16 | 22   |
| 17    |      | 31 | 31  | 28  | 23 | 20 | 16 | 14 | 13 | 19 | 15 | 12 | 2  | 2   | 12  | 20  | 20  | 15  | 33 | 23 | 20  | 27 | 24 | 28 | 29 | 20   |
| 18    |      | 29 | 20  | 18  | 9  | 9  | 27 | 18 | 23 | 22 | 19 | 12 | 1  | 4   | -4  | -4  | 1   | 2   | 4  | 24 | 36  | 21 | 22 | 3  | 31 | 15   |
| 19    |      | 31 | 35  | 30  | 24 | 24 | 22 | 24 | 24 | 23 | 20 | 11 | 3  | 5   | 6   | 7   | 31  | 7   | 6  | 6  | 24  | 45 | 63 | 59 | 38 | 24   |
| 20    |      | 24 | 23  | 23  | 23 | 20 | 12 | 11 | 9  | 21 | 12 | 15 | 1  | 2   | 5   | 10  | 14  | 15  | 29 | 76 | 59  | 50 | 49 | 25 | 21 | 23   |
| 21    |      | 29 | 28  | 20  | 4  | 3  | 14 | 17 | 18 | 22 | 15 | 10 | 3  | 5   | 6   | 13  | 21  | 31  | 15 | 19 | 24  | 43 | 26 | 29 | 24 | 18   |
| 22    |      | 24 | 20  | 15  | 19 | 20 | 19 | 21 | 25 | 28 | 27 | 18 | 5  | 7   | 7   | 23  | 40  | 13  | 12 | 15 | 15  | 19 | 30 | 43 | 19 | 20   |
| 23    | Q    | 15 | 33  | 19  | 15 | 10 | 14 | 19 | 25 | 28 | 21 | 14 | 9  | 6   | 17  | 11  | 13  | 26  | 27 | 23 | 21  | 28 | 27 | 24 | 22 | 19   |
| 24    | Q    | 25 | 29  | 22  | 17 | 19 | 22 | 27 | 30 | 30 | 22 | 12 | 9  | 11  | 11  | 15  | 27  | 18  | 19 | 17 | 19  | 29 | 36 | 37 | 35 | 22   |
| 25    | Q    | 34 | 24  | 22  | 21 | 21 | 23 | 26 | 34 | 32 | 22 | 12 | 3  | -5  | 5   | 9   | 19  | 19  | 19 | 25 | 26  | 23 | 22 | 19 | 19 | 20   |
| 26    |      | 21 | 17  | 21  | 21 | 22 | 17 | 22 | 19 | 21 | 18 | 4  | -6 | -10 | -11 | -4  | 4   | 20  | 35 | 32 | 24  | 30 | 38 | 46 | 36 | 18   |
| 27    | D    | 74 | 102 | 72  | 53 | 35 | 34 | 35 | 36 | 36 | 21 | 16 | -7 | -25 | -2  | -16 | -15 | 32  | 31 | 21 | 43  | 84 | 70 | 79 | 55 | 36   |
| 28    |      | 33 | 30  | 24  | 22 | 22 | 19 | 19 | 20 | 26 | 23 | -3 | -4 | -13 | -20 | -5  | 14  | 48  | 60 | 49 | 70  | 72 | 39 | 34 | 26 | 25   |
|       |      |    |     |     |    |    |    |    |    |    |    |    |    |     |     |     |     |     |    |    |     |    |    |    |    |      |
| All   |      | 40 | 40  | 36  | 27 | 23 | 22 | 21 | 24 | 22 | 17 | 11 | 4  | 3   | 4   | 7   | 11  | 18  | 22 | 30 | 35  | 42 | 41 | 41 | 42 | 24   |
| Quiet |      | 35 | 32  | 26  | 24 | 22 | 21 | 23 | 28 | 29 | 22 | 14 | 8  | 4   | 9   | 9   | 15  | 16  | 15 | 18 | 20  | 23 | 25 | 32 | 37 | 21   |
| Dist. |      | 68 | 82  | 77  | 46 | 28 | 28 | 25 | 31 | 17 | 10 | 10 | 5  | 3   | 9   | 9   | 8   | 35  | 28 | 46 | 51  | 51 | 55 | 58 | 58 | 35   |

February 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1   | 2   | 3    | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|------|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1     |      | 34  | 37  | 26   | 21  | 24  | 25  | 25 | 23 | 21 | 22 | 23 | 23 | 25 | 29 | 29  | 28  | 34  | 31  | 27  | 25  | 1   | -13 | -13 | -29 | 20   |
| 2     | D    | -30 | -37 | -43  | -23 | -19 | -12 | -6 | 5  | 6  | 13 | 23 | 41 | 52 | 62 | 118 | 239 | 145 | 134 | 153 | -29 | -19 | -31 | -26 | -90 | 26   |
| 3     | D    | -86 | -68 | -33  | -11 | 10  | 27  | 28 | 26 | 24 | 24 | 28 | 29 | 40 | 58 | 50  | 45  | 42  | 62  | 4   | 33  | 38  | 33  | 1   | 2   | 17   |
| 4     | D    | 13  | 17  | 19   | -18 | -4  | 2   | 19 | 23 | 30 | 40 | 43 | 41 | 44 | 47 | 45  | 42  | 34  | 38  | 56  | 43  | 6   | -20 | 1   | 8   | 24   |
| 5     |      | 17  | -9  | 12   | 21  | 26  | 20  | 26 | 27 | 27 | 30 | 33 | 38 | 42 | 42 | 56  | 57  | 51  | 39  | 34  | 40  | 37  | 28  | 18  | 23  | 31   |
| 6     |      | 23  | 27  | 27   | 26  | 26  | 26  | 28 | 27 | 23 | 22 | 21 | 25 | 25 | 37 | 50  | 49  | 65  | 90  | 102 | 85  | 56  | 32  | 30  | 14  | 39   |
| 7     |      | -5  | -26 | 0    | 18  | 27  | 30  | 31 | 30 | 27 | 23 | 25 | 27 | 37 | 45 | 44  | 46  | 48  | 54  | 55  | 37  | 30  | 38  | 31  | 27  | 29   |
| 8     |      | 23  | 2   | 5    | 3   | 7   | 16  | 24 | 23 | 19 | 19 | 22 | 25 | 31 | 43 | 55  | 44  | 40  | 44  | 50  | 42  | 34  | 22  | 25  | -6  | 26   |
| 9     |      | -8  | -32 | -13  | 0   | 19  | 23  | 22 | 22 | 20 | 18 | 20 | 23 | 29 | 34 | 42  | 45  | 46  | 90  | 86  | 90  | 74  | 41  | 36  | 28  | 31   |
| 10    |      | -4  | -14 | 7    | -12 | 4   | 6   | 11 | 20 | 27 | 26 | 31 | 31 | 32 | 35 | 38  | 39  | 39  | 43  | 44  | 42  | 38  | 35  | 27  | 1   | 23   |
| 11    | Q    | -2  | -4  | -10  | 2   | 6   | 10  | 12 | 17 | 20 | 22 | 24 | 27 | 29 | 32 | 32  | 33  | 38  | 43  | 45  | 34  | 29  | 28  | 28  | 26  | 22   |
| 12    |      | 25  | 25  | 24   | 20  | 17  | 17  | 17 | 19 | 19 | 17 | 17 | 19 | 19 | 22 | 27  | 34  | 69  | 47  | 42  | 34  | 33  | -19 | -21 | -16 | 21   |
| 13    | Q    | 12  | 22  | 26   | 27  | 24  | 22  | 20 | 20 | 18 | 17 | 18 | 21 | 23 | 30 | 30  | 28  | 26  | 24  | 24  | 23  | 22  | 20  | -7  | -26 | 19   |
| 14    |      | -44 | -15 | 10   | 21  | 17  | 19  | 20 | 23 | 24 | 25 | 27 | 28 | 26 | 33 | 41  | 51  | 43  | 58  | 61  | 37  | 30  | 26  | 23  | -9  | 24   |
| 15    | D    | -46 | -8  | 16   | 15  | 11  | 12  | 19 | 21 | 23 | 25 | 34 | 44 | 44 | 64 | 73  | 73  | 101 | 52  | 43  | 38  | 28  | 21  | 16  | 14  | 31   |
| 16    |      | 16  | 15  | 23   | 24  | 21  | 22  | 20 | 23 | 26 | 28 | 27 | 32 | 39 | 58 | 55  | 43  | 38  | 29  | 28  | 32  | 18  | 8   | 5   | -37 | 25   |
| 17    |      | -8  | 16  | 19   | 21  | 21  | 20  | 21 | 21 | 20 | 18 | 21 | 25 | 29 | 35 | 46  | 40  | 36  | 41  | 31  | 28  | 21  | 18  | 4   | 3   | 23   |
| 18    |      | 9   | 13  | 13   | 13  | 10  | 12  | 11 | 13 | 14 | 15 | 17 | 20 | 23 | 23 | 32  | 34  | 34  | 36  | 39  | 29  | 27  | 21  | -42 | -29 | 16   |
| 19    |      | -2  | 9   | 15   | 17  | 19  | 19  | 19 | 17 | 13 | 12 | 14 | 16 | 20 | 24 | 27  | 37  | 32  | 28  | 28  | 32  | 20  | 6   | -25 | -8  | 16   |
| 20    |      | 10  | 13  | 13   | 14  | 15  | 12  | 17 | 16 | 17 | 13 | 19 | 26 | 27 | 37 | 32  | 32  | 32  | 41  | 16  | 0   | 5   | 2   | -8  | 3   | 17   |
| 21    |      | 14  | 17  | 16   | 4   | 4   | 11  | 14 | 16 | 21 | 19 | 19 | 19 | 21 | 21 | 24  | 35  | 53  | 36  | 31  | 32  | 13  | -6  | 11  | 16  | 19   |
| 22    |      | 18  | 19  | 10   | 14  | 19  | 18  | 20 | 21 | 19 | 17 | 16 | 21 | 27 | 33 | 44  | 50  | 34  | 28  | 26  | 25  | 25  | 27  | 16  | 14  | 23   |
| 23    | Q    | 7   | 7   | 16   | 15  | 12  | 16  | 19 | 21 | 18 | 15 | 16 | 19 | 26 | 42 | 36  | 34  | 35  | 35  | 20  | 20  | 23  | 13  | 11  | 8   | 20   |
| 24    | Q    | 8   | 16  | 19   | 20  | 20  | 20  | 21 | 19 | 18 | 16 | 18 | 22 | 28 | 28 | 31  | 33  | 28  | 26  | 24  | 23  | 25  | 19  | 3   | -8  | 20   |
| 25    | Q    | 1   | 13  | 17   | 20  | 21  | 21  | 21 | 18 | 13 | 10 | 12 | 14 | 23 | 22 | 23  | 26  | 25  | 24  | 27  | 25  | 22  | 21  | 21  | 19  | 19   |
| 26    |      | 19  | 19  | 19   | 20  | 20  | 20  | 18 | 17 | 15 | 14 | 18 | 31 | 29 | 32 | 33  | 31  | 36  | 34  | 32  | 24  | 29  | 27  | -42 | -57 | 18   |
| 27    | D    | -67 | -84 | -109 | -10 | 15  | 29  | 33 | 32 | 31 | 29 | 26 | 36 | 44 | 97 | 73  | 84  | 96  | 96  | 83  | 36  | 35  | -54 | -65 | -42 | 18   |
| 28    |      | -27 | 15  | 25   | 27  | 26  | 27  | 28 | 26 | 23 | 21 | 23 | 33 | 53 | 54 | 51  | 60  | 59  | 68  | 69  | 62  | 52  | 44  | 27  | -35 | 34   |
|       |      |     |     |      |     |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |      |
| All   |      | -3  | 0   | 6    | 11  | 15  | 17  | 20 | 21 | 21 | 20 | 23 | 27 | 32 | 40 | 44  | 50  | 48  | 49  | 46  | 34  | 27  | 14  | 3   | -7  | 23   |
| Quiet |      | 5   | 11  | 14   | 17  | 17  | 18  | 19 | 19 | 17 | 16 | 17 | 21 | 26 | 31 | 31  | 31  | 30  | 30  | 28  | 25  | 24  | 20  | 11  | 4   | 20   |
| Dist. |      | -43 | -36 | -30  | -10 | 3   | 12  | 19 | 21 | 23 | 26 | 30 | 38 | 45 | 66 | 72  | 96  | 83  | 76  | 68  | 24  | 18  | -10 | -14 | -22 | 23   |
|       |      |     |     |      |     |     |     | -  | _  |    |    |    |    |    |    |     | 0.0 |     |     |     |     |     |     |     |     |      |

| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | Day   | Char | 1   | 2   | 3   | 4   | 5   | - 6 | - / | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21   | 22  | 23   | 24   | Mean |
|--|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|------|
| Section   Sect | 1     |      | -20 | -27 | -14 | -8  | -9  | -11 | -16 | -20 | -20 | -32 | -33 | -26 | -30 | -15 | -7  | -14 | -10 | -1  | 2   | -8  | -39  | -36 | -9   | -3   | -17  |
| A  | 2     |      | -10 | -7  | -5  | 4   | 7   | 1   | -5  | -13 | -20 |     |     |     | -7  | -8  | -14 | -12 | 1   | 0   | 0   |     | -30  | -1  |      | -5   | -8   |
| 5  | 3     |      | -20 | -14 | -9  | -4  | -1  | 1   | 1   | -3  | -16 | -26 |     | -7  | 4   | -8  | -3  | 11  | -2  | 10  | 20  | -12 | -6   | 0   | -18  | -100 | -9   |
| Continue   | 4     | D    | -75 | -26 | -35 | -20 | -20 | -8  | -22 | -41 | -40 | -34 | -26 | -35 | -45 | -24 | -17 | -5  | -22 | -14 | -6  | 5   | -28  | -42 | -21  | 2    | -25  |
| The color of the | 5     |      | -27 | -19 | -10 | -12 | -12 | -5  | -5  | -10 | -24 | -35 | -32 | -31 | -23 | -21 | -16 | -4  | -8  | -2  | -7  | -7  | 16   | 4   | -27  | -40  | -15  |
| S         Q         -3         -3         -2         -2         -1         1         -3         -11         -19         -23         -24         -18         -21         -1         -4         -14         -26         -16         -10         -0         -1         -1         -10         -1         -1         -1         -10         -1         -3         -8         -1         -5         -9         -27         -29         -25         -23         -10         -5         -8         -10         -10         -3         -23         -27         -20         -6         -11         -19         -21         -29         -28         -18         -3         -1         -5         -8         0         1         -3         -20         -6         -11         -19         -21         -29         -28         -18         -3         -3         -5         -8         3         -10         -15         -9         -2         -11         -13         -2         -2         -3         -5         -8         3         -7         -8         7         -8         -7         -5         -6         0         -0         -1         -10         -9         -2   | 6     |      | -19 | -34 | -24 | -16 | -6  | -8  | -19 | -25 | -31 | -23 | -24 | -19 | -20 | 9   | 4   | -17 | -11 | -9  | -15 | -17 | -38  | -50 | -32  | -14  | -19  |
| Section   Sect | 7     |      | -17 | -35 | -31 | -21 | -16 | -15 | -17 | -13 | -12 | -33 | -39 | -25 | -12 | -12 | -11 | -8  | -8  | -2  | 0   | -1  | -9   | -6  | -9   | 3    | -15  |
| 10   | 8     | Q    | -3  | -3  | -2  | -2  | -1  | 1   | -3  | -11 | -19 | -23 | -24 | -18 | -21 | -18 | -16 | 1   | -4  | -14 | -26 | -16 | -14  | -10 | 0    | -1   | -10  |
| 1  | 9     |      | -7  | -8  | -2  | -3  | -5  | -14 | -15 | -19 | -27 | -27 | -29 | -25 | -23 | -10 | -2  | -6  | -2  | 3   | -1  | -3  | -8   | -15 | 1    | -7   | -11  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 10    |      | -3  | -3  | -2  | -8  | 1   | 5   | 5   | -13 | -15 | -7  | -6  | -16 | 3   | 3   | -11 | -5  | -8  | -10 | -11 | -13 | -23  | -27 | -20  | -6   | -8   |
| 1  |       |      | 1   | -5  | -9  | -8  | -8  | -10 |     | -11 | -19 |     |     |     | -18 | -8  |     | -3  | 6   | 8   | 0   |     | 1    | 2   | 2    | 3    |      |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |       | Q    | 0   | 0   | 1   | 3   | 5   | 9   | 10  | 1   | -7  | -11 | -12 | -15 | -9  | -5  |     | 5   | 4   | 7   | 9   | 9   | 10   | 29  | 0    | -5   | 2    |
| 15   | 13    |      | -17 | 8   | 6   | 9   | 4   | 10  | 9   | 8   | -3  |     |     | -9  | -2  | -11 |     | -2  | -2  | 3   | 5   | 7   |      | 7   | 5    | 6    |      |
| 16   | 14    |      | 6   | 3   | 1   | 2   | 6   | 11  | 14  | 4   | -15 | -34 | -24 | -41 | 4   | -17 | -23 | -11 | -10 | -5  | 7   | 2   | -27  | -17 | -2   | -2   | -7   |
| 17   | 15    |      | -43 | -1  | -23 | -17 | -5  | 0   | -4  | -27 | -45 | -39 | -37 | -20 | -15 | -9  | -3  | -5  | -8  | 3   | -18 | -4  | -13  | -7  | 13   | 1    | -14  |
| 18   |       |      | -4  | -5  | -4  |     | 2   | 4   | 0   |     | -18 | -29 |     |     |     | -2  |     | 0   |     |     | -40 |     | -187 | -94 |      |      |      |
| 19   | 17    | D    | -18 | -21 | -16 | -21 | -41 | -48 | -21 | -30 | -44 | -58 | -36 | -46 | -27 | 8   | 26  | 21  | -28 | -15 | -12 | -12 | -8   | 18  | -72  | -74  | -24  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 18    |      | -73 | -43 | -14 | -6  | -20 | -18 | -15 | -34 | -46 | -45 | -43 | -35 | -16 | 4   | 22  | -14 | -12 | -10 | 1   | -2  | -4   | 1   | 10   | -7   | -17  |
| 21   | 19    |      | -7  | -17 | -15 | 6   | 6   | -5  | -2  | -12 | -21 | -26 | -25 | -24 | -27 | -7  | -12 | -2  | 3   | -3  | 5   | 10  | 9    | 6   | 6    | 1    | -6   |
| 22   | 20    |      | 0   | 3   | 6   | 7   | 10  | 17  | 6   | -2  | -17 | -24 | -22 | -7  | -14 | 9   | 32  | 29  | 43  | 26  | -7  | -68 | -54  | -44 | -18  | -43  | -6   |
| 23   24   25   25   25   25   25   25   25   | 21    |      | -33 | -50 | -5  | 3   | -3  |     |     | -12 |     |     |     |     |     |     | -6  | -6  | -5  | 1   | -3  |     | 7    | 14  | -5   |      | -14  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 22    |      | -30 | -11 | -8  | -1  | -14 | -24 | -20 |     | -17 |     |     | -18 | -16 | -11 | -4  | -2  | 1   | -1  | 3   | 5   |      | 10  | -1   | -2   | -9   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 23    |      | -9  | -23 | -10 | 5   | 2   | 1   | -8  |     |     |     |     | -41 |     | -1  |     | -17 | -2  | -1  |     |     |      | -6  | 4    | 9    |      |
| 26 Q 15 14 13 12 10 14 14 21 21 2 10 14 17 2 10 2 14 21 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | 24    | Q    | -2  | -5  | -2  | -9  | -4  | 1   | -6  | -20 |     | -34 |     | -19 | -10 | -10 | -5  | -5  | -1  | 0   | 2   | 3   | 7    | 4   | 4    | 5    | -7   |
| 27   | 25    | Q    | 4   | 6   | 5   | 5   | 5   | 1   | -5  | -14 | -22 | -28 | -25 | -18 | -13 | -5  | 5   | 1   | 4   | 7   | 4   | 9   | 10   | 9   | 14   | 15   | -1   |
| 28   | 26    | Q    | 15  | 14  | 13  | 12  | 10  | 14  | 11  | -1  | -9  | -12 | -14 | -17 | -19 | -13 | -4  | 1   | 7   | 10  | 24  | 16  | 17   | 9   | -1   | 8    | 4    |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 27    |      | -23 | -19 | 7   | 5   | 1   | 0   | -28 | -41 | -27 | -28 | -45 | -26 | -1  | -6  | 1   | 14  | 20  | -12 | -12 | -14 | -11  | -8  | -18  | -24  | -12  |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 28    |      | -31 | -30 | -24 | -21 | -7  | -7  | -27 | -56 | -41 | -40 | -33 | -26 | -19 | -10 | -6  | 10  | 17  | -8  | -10 | -22 | -67  | -84 | -150 | -43  | -31  |
| 31 D -26 -15 -21 -15 -9 -7 -10 -20 -33 -29 -38 -32 -18 20 146 109 -21 17 -32 -53 -108 -88 -61 -75 -18 All -20 -16 -10 -6 -6 -8 -17 -25 -28 -29 -29 -17 -14 -10 -4 1 2 2 2 2 4 6 8 3 4 -23 -21 -13 Quiet  | 29    | D    | -61 | -40 | -35 | -47 | -48 | -27 | -28 | -41 | -52 | -53 | -57 | -50 | -33 | -6  | 36  | 24  | 31  | 13  | -56 | -38 | -44  | -39 | -87  | -163 | -38  |
| All -20 -16 -10 -6 -6 -6 -8 -17 -25 -28 -29 -25 -17 -6 3 4 0 0 -5 -12 -23 -18 -23 -21 -13 Quiet 3 2 3 2 3 5 2 -9 -18 -22 -20 -17 -14 -10 -4 1 2 2 2 2 4 6 8 3 4 -3   | 30    | D    | -59 | -54 | -24 | -8  | -30 | -22 | -14 | -21 | -38 | -32 | -26 | -32 | -36 | -1  | 19  | 25  | 29  | 14  | -12 | -33 | -85  | -92 | -184 | -76  | -33  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       | D    | -26 | -15 | -21 | -15 | -9  | -7  | -10 | -20 | -33 | -29 | -38 |     |     | 20  | 146 | 109 | -21 | 17  | -32 | -53 | -108 | -88 | -61  | -75  |      |
|  | All   |      | -20 | -16 | -10 | -6  | -6  | -6  | -8  | -17 | -25 | -28 |     | -25 | -17 | -6  | 3   | 4   | 0   | 0   | -5  | -12 | -23  | -18 | -23  | -21  |      |
| Dist48 -31 -26 -22 -30 -22 -19 -31 -41 -41 -36 -39 -32 -1 42 35 -2 3 -24 -26 -55 -49 -85 -77 -27   | Quiet |      | 3   | 2   | 3   | 2   | 3   | 5   | 2   | -9  | -18 | -22 | -20 | -17 | -14 | -10 | -4  | 1   | 2   | 2   | 2   | 4   | 6    | 8   | 3    | 4    | -3   |
|  | Dist. |      | -48 | -31 | -26 | -22 | -30 | -22 | -19 | -31 | -41 | -41 | -36 | -39 | -32 | -1  | 42  | 35  | -2  | 3   | -24 | -26 | -55  | -49 | -85  | -77  | -27  |

March 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1   | 2  | 3  | 4  | 5  | 6   | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20  | 21 | 22  | 23 | 24  | Mean |
|-------|------|-----|----|----|----|----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|-----|----|-----|----|-----|------|
| 1     |      | 46  | 64 | 26 | 26 | 24 | 24  | 26 | 26 | 20 | 18 | 10 | -7  | 4   | -7  | 8   | 12  | 24  | 15 | 15 | 64  | 51 | 48  | 38 | 25  | 25   |
| 2     |      | 33  | 31 | 25 | 26 | 31 | 32  | 35 | 37 | 34 | 22 | -1 | -7  | -12 | -9  | 3   | 18  | 27  | 11 | 18 | 93  | 58 | 42  | 54 | 36  | 27   |
| 3     |      | 66  | 73 | 47 | 46 | 40 | 35  | 36 | 37 | 30 | 15 | 7  | -2  | -17 | -5  | -8  | -8  | -14 | 3  | 88 | 21  | 28 | 30  | 40 | 54  | 27   |
| 4     | D    | 115 | 62 | 73 | 61 | 52 | 31  | 31 | 19 | 31 | 23 | 9  | -8  | 10  | 5   | -5  | 49  | 15  | 15 | 30 | 47  | 60 | 34  | 36 | 45  | 35   |
| 5     |      | 63  | 46 | 38 | 28 | 33 | 35  | 37 | 39 | 38 | 23 | 8  | 3   | -13 | -5  | -4  | -6  | 34  | 75 | 28 | 41  | 79 | 50  | 59 | 12  | 31   |
| 6     |      | 65  | 75 | 46 | 58 | 42 | 36  | 39 | 29 | 17 | 15 | 0  | -9  | -21 | 1   | 0   | -7  | 17  | 69 | 26 | 44  | 71 | 41  | 50 | 23  | 30   |
| 7     |      | 13  | 12 | 13 | 45 | 35 | 38  | 35 | 35 | 25 | 21 | 10 | 3   | -3  | 1   | 9   | 19  | 19  | 20 | 21 | 29  | 47 | 34  | 16 | 19  | 22   |
| 8     | Q    | 31  | 32 | 30 | 34 | 31 | 34  | 40 | 43 | 38 | 28 | 17 | -1  | -1  | 8   | 12  | 14  | 33  | 33 | 32 | 45  | 41 | 31  | 30 | 48  | 29   |
| 9     |      | 36  | 35 | 34 | 38 | 35 | 26  | 27 | 30 | 31 | 27 | 17 | 2   | 4   | -1  | 5   | 11  | 15  | 12 | 20 | 30  | 27 | 50  | 48 | 34  | 25   |
| 10    |      | 26  | 29 | 32 | 39 | 21 | 29  | 30 | 28 | 27 | 12 | -1 | -2  | -16 | -6  | -14 | -15 | 36  | 35 | 26 | 35  | 63 | 22  | 21 | 37  | 21   |
| 11    |      | 15  | 27 | 39 | 31 | 38 | 36  | 18 | 17 | 22 | 14 | 9  | -1  | -7  | -9  | -7  | 2   | 4   | 2  | 21 | 23  | 24 | 23  | 20 | 24  | 16   |
| 12    | Q    | 20  | 20 | 33 | 33 | 32 | 32  | 35 | 36 | 37 | 31 | 16 | 9   | -1  | 2   | 6   | 15  | 14  | 16 | 17 | 17  | 25 | 36  | 65 | 33  | 24   |
| 13    |      | 24  | 21 | 41 | 36 | 27 | 13  | 22 | 38 | 33 | 25 | 12 | -4  | -12 | -5  | -1  | 7   | 9   | 12 | 16 | 16  | 17 | 24  | 24 | 24  | 17   |
| 14    |      | 23  | 24 | 27 | 22 | 31 | 34  | 38 | 38 | 23 | 16 | -2 | -4  | -18 | 21  | 0   | 9   | 18  | 21 | 82 | 103 | 67 | 30  | 36 | 19  | 27   |
| 15    |      | 9   | 11 | 50 | 17 | 33 | 36  | 37 | 31 | 24 | 13 | 6  | 2   | -4  | 6   | 6   | 13  | 24  | 90 | 72 | 52  | 35 | 19  | 18 | 36  | 26   |
| 16    |      | 20  | 29 | 22 | 15 | 26 | 34  | 40 | 38 | 32 | 20 | 13 | -9  | 8   | -4  | 1   | 42  | 24  | 26 | 45 | 102 | 85 | 90  | 97 | 29  | 34   |
| 17    | D    | 36  | 29 | 28 | 30 | 12 | -10 | 28 | 48 | 36 | 27 | 6  | 2   | 0   | 18  | 35  | 27  | 13  | 23 | 25 | 26  | 40 | 37  | 54 | 48  | 26   |
| 18    |      | 31  | -1 | 44 | 37 | 13 | 3   | 14 | 24 | 29 | 21 | 15 | 16  | -12 | -9  | 60  | 16  | 21  | 21 | 40 | 31  | 28 | 24  | 12 | 18  | 21   |
| 19    |      | 28  | 18 | 12 | 27 | 19 | 23  | 31 | 41 | 44 | 36 | 20 | 7   | 6   | 2   | 8   | 18  | 20  | 23 | 24 | 18  | 19 | 33  | 25 | 27  | 22   |
| 20    |      | 26  | 26 | 27 | 27 | 27 | 29  | 20 | 22 | 15 | 18 | 9  | 4   | -15 | -16 | 21  | 36  | 43  | 44 | 21 | 26  | 55 | 77  | 41 | 26  | 25   |
| 21    |      | 44  | 14 | 31 | 34 | 27 | 14  | 23 | 33 | 31 | 21 | 28 | 8   | 3   | 24  | 8   | 14  | 18  | 20 | 30 | 69  | 41 | 24  | 20 | 38  | 26   |
| 22    |      | 70  | 41 | 35 | 31 | 16 | -7  | 14 | 29 | 32 | 25 | 17 | 10  | 10  | 17  | 11  | 15  | 19  | 20 | 22 | 36  | 38 | 36  | 22 | 34  | 25   |
| 23    |      | 31  | 11 | 20 | 31 | 31 | 32  | 38 | 36 | 24 | 17 | 30 | 4   | -1  | 2   | 12  | 21  | 20  | 45 | 96 | 63  | 43 | 36  | 6  | -17 | 26   |
| 24    | Q    | 17  | 30 | 31 | 26 | 34 | 43  | 47 | 42 | 29 | 19 | 13 | 9   | 6   | 12  | 18  | 22  | 23  | 30 | 27 | 25  | 25 | 25  | 22 | 22  | 25   |
| 25    | Q    | 24  | 25 | 25 | 28 | 32 | 37  | 41 | 39 | 31 | 16 | 6  | 1   | 1   | 5   | 11  | 17  | 20  | 17 | 17 | 23  | 22 | 21  | 19 | 22  | 21   |
| 26    | Q    | 24  | 26 | 27 | 29 | 25 | 30  | 39 | 41 | 31 | 14 | 2  | -7  | -3  | -3  | 6   | 16  | 19  | 16 | 10 | 17  | 38 | 41  | 44 | 25  | 21   |
| 27    | •    | 19  | 54 | 49 | 48 | 48 | 52  | 48 | 0  | 17 | 9  | -2 | -15 | -30 | -13 | -15 | 6   | 21  | 37 | 48 | 48  | 65 | 30  | 42 | 68  | 26   |
| 28    |      | 57  | 59 | 42 | 29 | 46 | 49  | 51 | 37 | 18 | 16 | 1  | -7  | -6  | -3  | 15  | 23  | 67  | 53 | 36 | 39  | 35 | 70  | 55 | 75  | 36   |
| 29    | D    | 49  | 16 | 35 | 13 | 11 | 33  | 38 | 47 | 42 | 26 | 10 | -3  | -10 | -21 | -1  | 2   | 4   | 22 | 14 | 66  | 71 | 111 | 99 | 135 | 34   |
| 30    | D    | 91  | 98 | 27 | 50 | 61 | 58  | 59 | 60 | 38 | 23 | 13 | -5  | -5  | -16 | 10  | 16  | 23  | 60 | 61 | 45  | 65 | 87  | 85 | 63  | 45   |
| 31    | D    | 37  | 36 | 50 | 48 | 47 | 50  | 55 | 52 | 38 | 14 | 3  | -12 | -9  | -1  | 42  | 21  | 35  | 84 | 67 | 83  | 51 | 93  | 62 | 53  | 42   |
| All   |      | 38  | 34 | 34 | 34 | 32 | 30  | 35 | 35 | 30 | 20 | 10 | -1  | -5  | 0   | 8   | 14  | 21  | 31 | 35 | 44  | 45 | 43  | 41 | 37  | 27   |
| Quiet |      | 23  | 27 | 29 | 30 | 31 | 35  | 40 | 40 | 33 | 21 | 11 | 2   | 1   | 5   | 11  | 17  | 22  | 22 | 21 | 25  | 30 | 31  | 36 | 30  | 24   |
| Dist. |      | 66  | 48 | 43 | 40 | 37 | 32  | 42 | 45 | 37 | 22 | 8  | -5  | -3  | -3  | 16  | 23  | 18  | 41 | 39 | 53  | 57 | 72  | 67 | 69  | 36   |

March 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1    | 2    | 3   | 4   | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19 | 20  | 21   | 22   | 23   | 24   | Mean |
|-------|------|------|------|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|----|-----|------|------|------|------|------|
| 1     |      | -53  | -30  | 19  | 29  | 30  | 32 | 30 | 28 | 21 | 18 | 21 | 29 | 23 | 32  | 41  | 44  | 44  | 36  | 37 | 42  | 26   | 5    | 27   | 31   | 23   |
| 2     |      | 32   | 30   | 22  | 14  | 15  | 19 | 24 | 29 | 30 | 28 | 29 | 36 | 46 | 53  | 47  | 46  | 42  | 38  | 46 | 51  | 25   | 19   | -7   | -24  | 29   |
| 3     |      | -34  | -3   | 22  | 25  | 26  | 28 | 29 | 28 | 24 | 22 | 21 | 22 | 26 | 29  | 33  | 44  | 86  | 107 | 74 | 57  | 54   | 37   | -31  | -95  | 26   |
| 4     | D    | -78  | -28  | -33 | -43 | -6  | 3  | 10 | 14 | 28 | 42 | 48 | 55 | 61 | 48  | 53  | 90  | 63  | 53  | 55 | 27  | 21   | -27  | -19  | -3   | 18   |
| 5     |      | -16  | -16  | 14  | 21  | 17  | 21 | 28 | 26 | 23 | 24 | 29 | 29 | 39 | 52  | 48  | 60  | 76  | 63  | 50 | 50  | 20   | -5   | -9   | -53  | 25   |
| 6     |      | -24  | -37  | -62 | -42 | -20 | -2 | 16 | 19 | 18 | 22 | 26 | 33 | 53 | 89  | 120 | 138 | 114 | 76  | 57 | 53  | 31   | 3    | -6   | -4   | 28   |
| 7     |      | 18   | -1   | -42 | -8  | 21  | 26 | 32 | 36 | 31 | 26 | 29 | 28 | 33 | 38  | 45  | 43  | 37  | 36  | 34 | 38  | 39   | 31   | 22   | -9   | 24   |
| 8     | Q    | 20   | 27   | 29  | 28  | 28  | 29 | 31 | 31 | 28 | 24 | 23 | 26 | 35 | 45  | 39  | 39  | 59  | 67  | 75 | 56  | 50   | 34   | 12   | -1   | 35   |
| 9     |      | 9    | 22   | 18  | 14  | 15  | 15 | 13 | 17 | 20 | 19 | 17 | 23 | 27 | 31  | 39  | 40  | 40  | 41  | 48 | 38  | 39   | 24   | -9   | 15   | 24   |
| 10    |      | 30   | 31   | 29  | 26  | 18  | 20 | 21 | 20 | 25 | 21 | 24 | 27 | 54 | 74  | 72  | 79  | 100 | 65  | 63 | 58  | 28   | -38  | -9   | 11   | 35   |
| 11    |      | -22  | 4    | 17  | 25  | 29  | 26 | 20 | 22 | 24 | 24 | 23 | 24 | 28 | 35  | 45  | 45  | 37  | 41  | 41 | 36  | 32   | 30   | 28   | 27   | 27   |
| 12    | Q    | 20   | 14   | 21  | 24  | 26  | 25 | 25 | 22 | 19 | 16 | 17 | 20 | 29 | 29  | 29  | 28  | 26  | 28  | 28 | 29  | 30   | -5   | -7   | 10   | 21   |
| 13    |      | -6   | -46  | -13 | 2   | 11  | 10 | 16 | 20 | 19 | 16 | 16 | 21 | 37 | 51  | 45  | 36  | 30  | 30  | 31 | 30  | 29   | 28   | 28   | 28   | 19   |
| 14    |      | 26   | 26   | 25  | 25  | 22  | 23 | 22 | 20 | 20 | 25 | 33 | 36 | 54 | 99  | 63  | 45  | 41  | 39  | 53 | -4  | -12  | -20  | -33  | 9    | 27   |
| 15    |      | -51  | -74  | -47 | -3  | 16  | 27 | 24 | 24 | 31 | 34 | 31 | 37 | 41 | 55  | 48  | 50  | 70  | 61  | 49 | 26  | 22   | -21  | -4   | -15  | 18   |
| 16    |      | 10   | 21   | 22  | 23  | 27  | 30 | 27 | 27 | 23 | 19 | 20 | 32 | 54 | 73  | 97  | 109 | 58  | 51  | 52 | -22 | -175 | -122 | -89  | -10  | 15   |
| 17    | D    | 8    | 23   | 35  | 25  | 23  | 24 | 23 | 35 | 42 | 42 | 47 | 49 | 59 | 91  | 162 | 138 | 91  | 58  | 43 | 41  | 19   | -92  | -92  | -122 | 32   |
| 18    |      | -89  | -63  | -13 | 25  | 14  | 21 | 23 | 29 | 32 | 40 | 61 | 56 | 47 | 72  | 98  | 53  | 49  | 44  | 41 | 33  | 31   | 11   | -9   | -4   | 25   |
| 19    |      | 13   | -9   | -10 | 5   | 6   | 24 | 27 | 30 | 34 | 32 | 30 | 32 | 38 | 42  | 41  | 43  | 43  | 43  | 38 | 31  | 31   | 19   | 26   | 32   | 27   |
| 20    |      | 33   | 31   | 31  | 30  | 30  | 31 | 31 | 28 | 25 | 21 | 25 | 53 | 63 | 71  | 101 | 95  | 93  | 78  | 51 | 15  | 33   | -32  | -35  | -53  | 35   |
| 21    |      | -40  | -59  | 6   | 24  | 23  | 19 | 23 | 22 | 22 | 27 | 51 | 53 | 47 | 62  | 41  | 36  | 33  | 36  | 44 | 39  | 26   | -2   | -68  | -72  | 16   |
| 22    |      | -28  | 7    | 26  | 26  | 17  | 13 | 22 | 24 | 21 | 22 | 21 | 28 | 40 | 46  | 42  | 36  | 34  | 33  | 34 | 35  | 29   | -16  | -8   | 13   | 22   |
| 23    |      | 20   | -11  | 5   | 17  | 24  | 27 | 26 | 31 | 29 | 30 | 56 | 42 | 32 | 45  | 49  | 46  | 41  | 53  | 36 | 21  | 30   | 25   | -3   | -27  | 27   |
| 24    | Q    | 1    | 22   | 27  | 29  | 31  | 31 | 27 | 27 | 32 | 35 | 32 | 32 | 33 | 34  | 33  | 31  | 32  | 34  | 33 | 31  | 30   | 28   | 28   | 29   | 29   |
| 25    | Q    | 30   | 29   | 28  | 28  | 29  | 31 | 29 | 26 | 24 | 20 | 21 | 22 | 25 | 29  | 32  | 33  | 33  | 32  | 32 | 31  | 29   | 28   | 28   | 28   | 28   |
| 26    | Q    | 27   | 28   | 27  | 27  | 27  | 25 | 24 | 20 | 15 | 12 | 16 | 25 | 31 | 38  | 40  | 39  | 35  | 32  | 30 | 34  | 33   | 22   | 21   | 20   | 27   |
| 27    |      | -54  | -70  | 3   | 24  | 28  | 28 | 23 | 16 | 23 | 31 | 29 | 36 | 64 | 76  | 79  | 130 | 174 | 134 | 90 | 55  | 22   | -13  | -42  | -63  | 34   |
| 28    |      | -43  | -18  | -13 | -18 | -1  | 15 | 22 | 25 | 23 | 17 | 15 | 19 | 25 | 38  | 47  | 49  | 74  | 60  | 60 | 46  | -24  | -94  | -176 | -95  | 2    |
| 29    | D    | -60  | -65  | -75 | -59 | -44 | -9 | 15 | 24 | 35 | 35 | 35 | 37 | 45 | 73  | 116 | 142 | 173 | 143 | 17 | 13  | -21  | -83  | -155 | -163 | 7    |
| 30    | D    | -156 | -127 | -7  | 32  | 27  | 33 | 28 | 23 | 21 | 23 | 26 | 38 | 46 | 67  | 101 | 117 | 106 | 58  | 45 | 24  | -45  | -102 | -115 | -60  | 8    |
| 31    | D    | 14   | 49   | 44  | 43  | 43  | 45 | 40 | 35 | 32 | 34 | 37 | 55 | 70 | 117 | 199 | 184 | 128 | 65  | 49 | 48  | -66  | -35  | -29  | -52  | 48   |
| All   |      | -14  | -9   | 5   | 13  | 18  | 22 | 24 | 25 | 26 | 26 | 29 | 34 | 42 | 56  | 66  | 68  | 66  | 56  | 46 | 34  | 13   | -12  | -24  | -22  | 25   |
| Quiet |      | 20   | 24   | 26  | 27  | 28  | 28 | 27 | 25 | 24 | 21 | 22 | 25 | 31 | 35  | 35  | 34  | 37  | 39  | 40 | 36  | 34   | 21   | 17   | 17   | 28   |
| Dist. |      | -54  | -30  | -7  | -1  | 9   | 19 | 23 | 26 | 31 | 35 | 39 | 47 | 56 | 79  | 126 | 134 | 112 | 75  | 42 | 31  | -18  | -68  | -82  | -80  | 23   |

Nurmijärvi Finland  $\label{eq:april-2003} \mbox{Aprl 2003 North component X in nT (X = 14900 nT + tabular values)}$ 

| Day   | Char | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19  | 20  | 21  | 22  | 23  | 24   | Mean |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|------|------|
| 1     |      | -59 | -78 | -88 | -38 | -4  | -8  | -17 | -30 | -37 | -42 | -38 | -32 | -15 | -8  | -3  | -3  | 10  | 10 | 8   | -5  | -27 | -6  | -4  | -11  | -22  |
| 2     |      | -13 | -12 | -6  | -4  | -16 | -39 | -23 | -38 | -58 | -54 | -35 | -16 | -6  | -23 | 4   | -14 | -2  | 17 | 15  | -18 | -42 | -19 | -71 | -34  | -21  |
| 3     |      | 1   | -8  | -7  | -4  | -4  | -3  | -10 | -24 | -44 | -49 | -42 | -32 | -24 | -6  | 11  | -8  | 8   | 8  | 16  | 3   | 6   | 2   | -24 | -65  | -13  |
| 4     | D    | 0   | -16 | -25 | 1   | 3   | -7  | -17 | -33 | -42 | -58 | -40 | -11 | 7   | 24  | 7   | 12  | -11 | -1 | -10 | -4  | 1   | -26 | -56 | -91  | -16  |
| 5     | D    | -47 | -48 | -36 | -22 | -33 | -36 | -16 | -29 | -48 | -51 | -44 | -35 | -12 | -3  | 3   | -11 | 5   | 18 | -20 | -32 | -41 | -27 | -30 | -10  | -25  |
| 6     | Q    | -22 | -14 | -8  | -10 | -11 | -8  | -8  | -19 | -31 | -46 | -39 | -31 | -21 | -11 | -4  | 1   | -2  | 15 | 1   | -4  | -1  | -1  | -2  | -7   | -12  |
| 7     | Q    | 1   | -5  | -6  | -4  | 0   | 1   | -4  | -14 | -28 | -34 | -29 | -27 | -3  | -12 | 11  | -3  | -2  | -3 | 7   | 11  | 12  | 14  | 10  | 10   | -4   |
| 8     |      | 12  | 24  | 21  | 16  | 11  | 14  | 5   | -37 | -40 | -38 | -53 | -41 | -3  | 9   | 14  | -30 | -10 | -6 | -6  | -1  | 2   | 2   | 2   | -1   | -6   |
| 9     |      | -26 | -9  | -15 | 5   | 0   | 0   | -31 | -38 | -31 | -46 | -37 | -47 | -6  | 41  | -19 | -12 | 14  | -9 | 5   | 8   | 12  | 10  | 15  | 12   | -9   |
| 10    |      | 5   | 6   | 5   | 4   | 1   | -13 | -15 | -24 | -42 | -47 | -58 | -50 | -29 | -12 | -13 | 9   | 8   | 3  | 1   | -8  | -31 | -25 | -13 | -1   | -14  |
| 11    |      | -5  | -5  | -6  | -13 | -11 | -8  | -12 | -23 | -37 | -45 | -39 | -21 | -14 | -4  | 4   | 7   | 3   | 7  | 10  | 3   | 17  | 4   | -21 | -33  | -10  |
| 12    | Q    | 0   | -8  | -4  | 4   | 5   | 1   | -4  | -15 | -22 | -29 | -32 | -25 | -12 | 6   | 3   | 7   | 2   | 13 | 10  | 8   | 9   | 8   | 8   | 7    | -3   |
| 13    | Q    | 5   | 1   | -10 | -3  | 12  | 13  | -1  | -18 | -32 | -36 | -38 | -18 | -13 | -11 | 0   | 5   | 9   | 10 | 11  | 12  | 11  | 12  | 14  | 14   | -2   |
| 14    |      | 12  | 13  | 13  | 12  | -3  | 8   | 10  | -1  | -17 | -27 | -30 | -14 | -3  | 11  | 10  | -27 | -13 | -2 | 1   | 3   | 4   | 7   | 2   | 17   | -1   |
| 15    |      | 1   | -1  | -16 | 1   | 14  | 5   | -13 | -32 | -35 | -54 | -42 | -26 | -31 | -17 | 3   | 4   | 15  | 14 | 12  | 17  | 11  | 16  | 6   | 7    | -6   |
| 16    | D    | -1  | -10 | 15  | 19  | 14  | 14  | 0   | -28 | -31 | -53 | -69 | -41 | -20 | -13 | -3  | 24  | 13  | 17 | 3   | 17  | 37  | -1  | -6  | -4   | -4   |
| 17    |      | -4  | -3  | -18 | -24 | -30 | -39 | -21 | -22 | -31 | -41 | -67 | -58 | -32 | -26 | 6   | 27  | 6   | 7  | 6   | 7   | 4   | 3   | 6   | 3    | -14  |
| 18    |      | 4   | 2   | 3   | 4   | -9  | -45 | -9  | -8  | -20 | -43 | -35 | -21 | -30 | -12 | 3   | 15  | 10  | -4 | 6   | 10  | 12  | 21  | 2   | -17  | -7   |
| 19    | Q    | -2  | 2   | 1   | 2   | 2   | -4  | -11 | -17 | -29 | -38 | -34 | -21 | -13 | -6  | -1  | 3   | 6   | 7  | 16  | 21  | 10  | 4   | 9   | -7   | -4   |
| 20    |      | -8  | -5  | -8  | -13 | -14 | -19 | -10 | -11 | -22 | -33 | -35 | -27 | -14 | 0   | 9   | 19  | 23  | 18 | 17  | 20  | 24  | 21  | 23  | -18  | -3   |
| 21    |      | -34 | -56 | -4  | -18 | -12 | -14 | -52 | -50 | -32 | -38 | -42 | -38 | -31 | -15 | -14 | 4   | 3   | 16 | 21  | 12  | 2   | -16 | -30 | -32  | -19  |
| 22    |      | -24 | -24 | -14 | -36 | -15 | -1  | -9  | -22 | -24 | -41 | -35 | 2   | -3  | -5  | -26 | -9  | 35  | 19 | 10  | 2   | -14 | -1  | -13 | 1    | -10  |
| 23    |      | -3  | -6  | -4  | -2  | -11 | -38 | -65 | -79 | -66 | -34 | -43 | -17 | -16 | -5  | -27 | 6   | 16  | 7  | 11  | 16  | 4   | 3   | -4  | -4   | -15  |
| 24    |      | -5  | 0   | -3  | -2  | -3  | -11 | -36 | -54 | -55 | -55 | -33 | -16 | -3  | -9  | 8   | 27  | 18  | 28 | 5   | -7  | -55 | -37 | -42 | -15  | -15  |
| 25    | D    | -29 | -27 | -29 | -38 | -48 | -59 | -45 | -44 | -59 | -85 | -82 | -52 | -44 | -33 | -4  | -1  | 24  | 11 | 0   | 2   | 8   | 0   | -58 | -43  | -31  |
| 26    |      | -21 | -8  | -1  | -8  | -7  | -15 | -27 | -53 | -51 | -45 | -38 | -29 | -20 | -2  | 16  | 21  | 14  | 35 | 26  | 17  | 15  | -1  | 3   | -3   | -8   |
| 27    |      | -15 | -3  | 4   | -2  | -17 | -25 | -17 | -16 | -30 | -38 | -25 | -12 | -17 | -21 | -7  | 40  | 3   | 21 | 22  | 22  | 9   | 9   | -17 | -3   | -6   |
| 28    |      | -9  | -18 | -6  | -2  | -12 | -39 | -48 | -63 | -72 | -72 | -43 | -31 | -8  | -4  | -13 | -8  | 5   | 5  | 6   | 10  | 10  | 3   | -4  | -5   | -17  |
| 29    |      | 1   | -2  | 1   | 0   | -8  | -19 | -19 | -32 | -48 | -47 | -33 | -17 | 4   | 32  | 69  | 78  | 63  | 67 | 2   | -30 | -77 | -38 | -62 | -116 | -10  |
| 30    | D    | -34 | -61 | -87 | -33 | -7  | -8  | -32 | -45 | -58 | -62 | -59 | -56 | -23 | 2   | -4  | 60  | 14  | 3  | 6   | -17 | -53 | -59 | -97 | -108 | -34  |
|       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |      |      |
| All   |      | -10 | -13 | -11 | -7  | -7  | -13 | -19 | -31 | -39 | -46 | -42 | -29 | -15 | -4  | 1   | 8   | 10  | 12 | 7   | 3   | -4  | -4  | -15 | -18  | -12  |
| Quiet |      | -4  | -5  | -5  | -2  | 1   | 1   | -6  | -17 | -28 | -37 | -34 | -24 | -12 | -7  | 2   | 2   | 3   | 8  | 9   | 9   | 8   | 7   | 8   | 4    | -5   |
| Dist. |      | -22 | -32 | -33 | -15 | -14 | -19 | -22 | -36 | -48 | -62 | -59 | -39 | -18 | -4  | 0   | 17  | 9   | 10 | -4  | -7  | -10 | -23 | -49 | -51  | -22  |

Aprl 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1  | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18 | 19 | 20 | 21 | 22  | 23  | 24  | Mean |
|-------|------|----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|------|
| 1     |      | 65 | 116 | 59 | 41 | 53 | 59 | 63 | 64 | 53 | 29 | 9   | 1   | -2  | 5   | 8   | 25  | 27 | 38 | 45 | 61 | 66 | 37  | 32  | 25  | 41   |
| 2     |      | 18 | 24  | 32 | 37 | 30 | 13 | 1  | 16 | 17 | 16 | 3   | -10 | -4  | -7  | -14 | 8   | 29 | 45 | 67 | 61 | 69 | 87  | 67  | 24  | 26   |
| 3     |      | 41 | 38  | 41 | 43 | 41 | 45 | 50 | 50 | 37 | 16 | 3   | -5  | -7  | -8  | -6  | 12  | 17 | 18 | 63 | 27 | 30 | 103 | 101 | 60  | 34   |
| 4     | D    | 54 | 61  | 24 | 45 | 46 | 49 | 59 | 53 | 47 | 35 | 12  | -16 | -11 | -16 | -27 | -18 | 22 | 28 | 28 | 26 | 91 | 66  | 84  | 104 | 35   |
| 5     | D    | 64 | 57  | 32 | 38 | 26 | 23 | 45 | 43 | 42 | 30 | 7   | -9  | -10 | 1   | -13 | -8  | 7  | 45 | 49 | 81 | 60 | 28  | 13  | 19  | 28   |
| 6     | Q    | 22 | 18  | 22 | 33 | 33 | 38 | 51 | 54 | 50 | 38 | 21  | 3   | -9  | -8  | 3   | 14  | 24 | 51 | 30 | 27 | 26 | 27  | 38  | 23  | 26   |
| 7     | Q    | 18 | 30  | 33 | 38 | 41 | 44 | 49 | 51 | 45 | 31 | 12  | -8  | -20 | -18 | -24 | -9  | 2  | 16 | 23 | 22 | 23 | 25  | 25  | 23  | 20   |
| 8     |      | 23 | 23  | 25 | 26 | 19 | 22 | 30 | 36 | 26 | 18 | 4   | -13 | -23 | -21 | -22 | -20 | 12 | 28 | 36 | 28 | 29 | 24  | 21  | 27  | 15   |
| 9     |      | -9 | 15  | 21 | 18 | 21 | 28 | 40 | 11 | 21 | 13 | -1  | -8  | -10 | 0   | -11 | 2   | 15 | 26 | 12 | 11 | 16 | 24  | 27  | 31  | 13   |
| 10    |      | 34 | 37  | 35 | 17 | 29 | 24 | 24 | 32 | 24 | 19 | -1  | -8  | -17 | -7  | 3   | 21  | 47 | 39 | 28 | 57 | 83 | 58  | 33  | 30  | 27   |
| 11    |      | 28 | 32  | 37 | 32 | 31 | 44 | 52 | 48 | 36 | 23 | 8   | 3   | 0   | 2   | 10  | 28  | 32 | 24 | 30 | 33 | 43 | 32  | 17  | 8   | 26   |
| 12    | Q    | 44 | 33  | 30 | 33 | 34 | 39 | 37 | 40 | 37 | 27 | 15  | 5   | 1   | -1  | 23  | 21  | 20 | 39 | 30 | 24 | 22 | 20  | 23  | 25  | 26   |
| 13    | Q    | 28 | 32  | 21 | 18 | 40 | 46 | 48 | 43 | 37 | 22 | 14  | 1   | 9   | 10  | 13  | 18  | 23 | 20 | 18 | 20 | 20 | 19  | 20  | 27  | 24   |
| 14    |      | 26 | 29  | 29 | 31 | 25 | 26 | 36 | 41 | 38 | 30 | 18  | -2  | -8  | -10 | -7  | -7  | 14 | 21 | 37 | 41 | 20 | 17  | 17  | 0   | 19   |
| 15    |      | 21 | 33  | 11 | 14 | 23 | 12 | 27 | 19 | 21 | 14 | 7   | -14 | -8  | 5   | 11  | 11  | 13 | 15 | 18 | 21 | 20 | 24  | 21  | 5   | 14   |
| 16    | D    | 12 | -2  | 30 | 42 | 36 | 35 | 35 | 34 | 34 | 29 | 14  | 5   | -8  | -1  | 14  | 27  | 36 | 40 | 28 | 44 | 67 | 59  | 36  | 33  | 28   |
| 17    |      | 30 | 25  | 30 | 30 | 19 | 26 | 33 | 43 | 40 | 30 | 34  | 13  | 2   | 2   | 18  | 66  | 33 | 46 | 45 | 33 | 28 | 29  | 27  | 25  | 29   |
| 18    |      | 22 | 26  | 27 | 33 | 27 | 0  | 18 | 36 | 35 | 23 | 13  | -8  | -3  | -5  | 0   | 33  | 24 | 29 | 19 | 27 | 25 | 46  | 39  | 50  | 22   |
| 19    | Q    | 21 | 26  | 36 | 40 | 42 | 43 | 44 | 44 | 36 | 21 | 8   | -2  | -4  | 6   | 14  | 20  | 21 | 22 | 33 | 58 | 38 | 32  | 32  | 11  | 27   |
| 20    |      | -6 | 10  | 21 | 44 | 34 | 24 | 27 | 34 | 40 | 26 | 11  | -1  | -4  | -7  | -5  | 4   | 11 | 18 | 20 | 18 | 34 | 34  | 25  | 32  | 19   |
| 21    |      | 72 | 115 | 78 | 69 | 68 | 53 | 49 | 18 | 29 | 23 | 3   | -2  | -4  | -4  | 7   | 21  | 27 | 20 | 42 | 33 | 83 | 66  | 73  | 79  | 42   |
| 22    |      | 72 | 69  | 48 | 47 | 22 | 31 | 59 | 60 | 40 | 28 | 10  | -4  | -14 | -6  | 7   | 13  | 29 | 48 | 45 | 43 | 65 | 52  | 43  | 30  | 35   |
| 23    |      | 38 | 36  | 42 | 43 | 52 | 54 | 30 | 18 | 16 | 17 | 4   | -8  | -13 | -13 | -3  | 20  | 33 | 24 | 33 | 63 | 46 | 29  | 34  | 44  | 27   |
| 24    |      | 26 | 33  | 42 | 46 | 54 | 59 | 47 | 25 | 33 | 16 | -1  | -15 | -23 | -26 | -29 | 1   | 19 | 28 | 80 | 60 | 69 | 38  | 33  | 40  | 27   |
| 25    | D    | 40 | 38  | 25 | 20 | 23 | 47 | 66 | 48 | 38 | 31 | 2   | -15 | -18 | -5  | 8   | 24  | 31 | 48 | 37 | 28 | 33 | 48  | 81  | 64  | 31   |
| 26    |      | 53 | 44  | 45 | 49 | 48 | 60 | 63 | 52 | 22 | 9  | -9  | -22 | -25 | -16 | 4   | 9   | 20 | 37 | 39 | 35 | 64 | 45  | 45  | 53  | 30   |
| 27    |      | 67 | 47  | 42 | 47 | 51 | 43 | 46 | 43 | 25 | 3  | -15 | -22 | -15 | -6  | 7   | 12  | 29 | 28 | 26 | 25 | 24 | 40  | 30  | 28  | 25   |
| 28    |      | 28 | 20  | 45 | 51 | 41 | 50 | 23 | 27 | 23 | 6  | -10 | -7  | -6  | 7   | 19  | 29  | 33 | 25 | 24 | 21 | 22 | 26  | 28  | 29  | 23   |
| 29    |      | 33 | 34  | 38 | 45 | 54 | 61 | 48 | 45 | 33 | 18 | 0   | -8  | -14 | -12 | -9  | 20  | 8  | 19 | 30 | 61 | 0  | 40  | 81  | 63  | 29   |
| 30    | D    | 37 | 23  | 0  | 43 | 42 | 56 | 54 | 52 | 33 | 18 | 5   | -19 | -15 | -14 | -1  | 13  | 2  | 17 | 32 | 46 | 50 | 22  | 42  | 114 | 27   |
|       |      |    |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |    |    |    |    |    |     |     |     |      |
| All   |      | 34 | 37  | 33 | 37 | 37 | 38 | 42 | 39 | 34 | 22 | 7   | -7  | -9  | -6  | 0   | 14  | 22 | 30 | 35 | 38 | 42 | 40  | 40  | 38  | 26   |
| Quiet |      | 27 | 28  | 28 | 33 | 38 | 42 | 46 | 46 | 41 | 28 | 14  | 0   | -4  | -2  | 6   | 13  | 18 | 30 | 27 | 30 | 26 | 25  | 27  | 22  | 24   |
| Dist. |      | 41 | 35  | 22 | 37 | 34 | 42 | 52 | 46 | 39 | 29 | 8   | -11 | -12 | -7  | -4  | 7   | 19 | 35 | 35 | 45 | 60 | 45  | 51  | 67  | 30   |

Apr<br/>l 2003 Vertical component Z in n T (Z = 49600 n T + tabular values)

| Day   | Char | 1   | 2   | 3    | 4   | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22  | 23   | 24   | Mean |
|-------|------|-----|-----|------|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|------|------|------|
| 1     |      | -83 | -80 | -108 | -55 | 12  | 39 | 47 | 47 | 44 | 37 | 33 | 36 | 42 | 43  | 48  | 59  | 67  | 67  | 43  | 7  | 0   | 23  | 28   | 15   | 17   |
| 2     |      | 20  | 26  | 32   | 31  | 26  | 24 | 26 | 30 | 35 | 33 | 36 | 56 | 84 | 70  | 75  | 72  | 72  | 54  | 20  | 29 | 9   | -52 | -52  | -51  | 29   |
| 3     |      | -10 | 15  | 34   | 38  | 39  | 39 | 38 | 32 | 30 | 29 | 32 | 34 | 35 | 35  | 53  | 52  | 51  | 52  | 45  | 34 | 37  | 15  | -18  | -77  | 28   |
| 4     | D    | -47 | -24 | -18  | 18  | 27  | 32 | 32 | 28 | 26 | 34 | 29 | 40 | 86 | 111 | 111 | 128 | 111 | 66  | 45  | 44 | 31  | -65 | -79  | -133 | 26   |
| 5     | D    | -52 | -35 | -18  | 8   | 5   | 17 | 36 | 36 | 36 | 35 | 40 | 43 | 75 | 84  | 82  | 76  | 104 | 81  | 93  | 13 | -44 | 3   | -1   | 14   | 30   |
| 6     | Q    | 12  | 29  | 36   | 36  | 43  | 48 | 50 | 47 | 42 | 37 | 34 | 29 | 33 | 38  | 43  | 49  | 58  | 60  | 42  | 43 | 40  | 38  | 35   | 32   | 40   |
| 7     | Q    | 22  | 28  | 35   | 37  | 38  | 38 | 40 | 40 | 36 | 32 | 28 | 31 | 45 | 52  | 54  | 57  | 57  | 52  | 45  | 39 | 35  | 32  | 33   | 34   | 39   |
| 8     |      | 33  | 31  | 30   | 28  | 26  | 22 | 21 | 22 | 16 | 12 | 19 | 31 | 50 | 75  | 99  | 108 | 80  | 84  | 69  | 49 | 39  | 39  | 35   | 29   | 44   |
| 9     |      | -6  | -32 | -2   | 5   | 0   | 12 | 18 | 21 | 23 | 26 | 30 | 40 | 67 | 133 | 86  | 60  | 68  | 69  | 48  | 42 | 37  | 34  | 30   | 32   | 35   |
| 10    |      | 34  | 34  | 31   | 14  | 8   | 17 | 25 | 25 | 30 | 34 | 35 | 36 | 56 | 64  | 62  | 70  | 87  | 69  | 58  | 45 | -9  | 16  | 28   | 42   | 38   |
| 11    |      | 40  | 36  | 35   | 32  | 29  | 38 | 37 | 34 | 32 | 32 | 33 | 40 | 36 | 41  | 45  | 58  | 59  | 53  | 49  | 15 | -4  | 19  | 0    | -58  | 31   |
| 12    | Q    | -3  | 19  | 30   | 30  | 33  | 33 | 34 | 36 | 32 | 28 | 24 | 24 | 31 | 40  | 54  | 50  | 48  | 45  | 37  | 33 | 32  | 32  | 33   | 33   | 33   |
| 13    | Q    | 33  | 34  | 25   | 14  | 18  | 25 | 30 | 31 | 29 | 26 | 21 | 30 | 49 | 43  | 36  | 33  | 34  | 32  | 31  | 32 | 32  | 32  | 31   | 31   | 31   |
| 14    |      | 30  | 30  | 31   | 31  | 29  | 28 | 27 | 27 | 24 | 20 | 15 | 22 | 47 | 81  | 107 | 104 | 66  | 48  | 45  | 33 | 34  | 32  | 28   | -22  | 38   |
| 15    |      | 5   | 18  | 7    | 9   | 13  | 13 | 22 | 26 | 27 | 27 | 38 | 39 | 43 | 58  | 52  | 41  | 36  | 34  | 34  | 37 | 36  | 26  | 19   | 11   | 28   |
| 16    | D    | -11 | -26 | 8    | 20  | 21  | 23 | 25 | 29 | 29 | 31 | 47 | 39 | 50 | 51  | 64  | 87  | 69  | 53  | 47  | 24 | -42 | -26 | 12   | 19   | 27   |
| 17    |      | 27  | 28  | 22   | 19  | 11  | 23 | 42 | 40 | 32 | 37 | 60 | 64 | 53 | 49  | 71  | 104 | 77  | 69  | 49  | 9  | 33  | 34  | 31   | 32   | 42   |
| 18    |      | 29  | 33  | 35   | 35  | 29  | 16 | 32 | 34 | 32 | 31 | 33 | 44 | 57 | 60  | 67  | 77  | 64  | 56  | 43  | 39 | 29  | 2   | 5    | -13  | 36   |
| 19    | Q    | 2   | 27  | 33   | 36  | 37  | 37 | 37 | 33 | 29 | 25 | 23 | 28 | 35 | 47  | 45  | 45  | 43  | 41  | 42  | 37 | 26  | 24  | 24   | 3    | 32   |
| 20    |      | -28 | -13 | -10  | 6   | 20  | 22 | 26 | 32 | 26 | 21 | 18 | 21 | 28 | 32  | 35  | 40  | 46  | 53  | 50  | 43 | 37  | 30  | 16   | -56  | 21   |
| 21    |      | -84 | -77 | -28  | -15 | 5   | 20 | 21 | 24 | 31 | 30 | 37 | 54 | 50 | 50  | 53  | 63  | 60  | 52  | 42  | 37 | 21  | -18 | -36  | -46  | 14   |
| 22    |      | -37 | -24 | 0    | -6  | -10 | -2 | 12 | 26 | 26 | 33 | 38 | 56 | 63 | 76  | 58  | 54  | 62  | 43  | 42  | 41 | 24  | 36  | 1    | -12  | 25   |
| 23    |      | 22  | 29  | 32   | 39  | 39  | 32 | 24 | 22 | 24 | 27 | 26 | 40 | 51 | 63  | 61  | 85  | 67  | 48  | 47  | 17 | 4   | 24  | 24   | 4    | 35   |
| 24    |      | -12 | -1  | 26   | 36  | 38  | 34 | 28 | 24 | 22 | 19 | 27 | 30 | 40 | 64  | 94  | 129 | 91  | 91  | 79  | 21 | -31 | -85 | -68  | -50  | 27   |
| 25    | D    | -30 | -4  | -1   | -28 | -19 | 6  | 32 | 40 | 42 | 54 | 66 | 76 | 85 | 62  | 65  | 58  | 66  | 81  | 61  | 46 | 25  | -41 | -102 | -137 | 21   |
| 26    |      | -57 | -5  | 29   | 31  | 37  | 40 | 35 | 36 | 35 | 37 | 37 | 41 | 52 | 64  | 73  | 69  | 69  | 53  | 39  | 41 | 18  | 8   | 17   | 7    | 34   |
| 27    |      | -8  | 17  | 28   | 32  | 29  | 24 | 22 | 23 | 21 | 21 | 32 | 42 | 48 | 38  | 38  | 58  | 63  | 54  | 49  | 19 | 2   | 18  | -10  | -15  | 27   |
| 28    |      | 3   | -22 | -34  | -17 | -8  | 10 | 19 | 21 | 22 | 30 | 50 | 58 | 56 | 61  | 56  | 50  | 46  | 37  | 35  | 36 | 37  | 39  | 40   | 41   | 28   |
| 29    |      | 38  | 34  | 40   | 42  | 40  | 36 | 35 | 29 | 22 | 19 | 21 | 28 | 44 | 66  | 95  | 124 | 128 | 126 | 107 | 14 | -53 | 1   | -52  | -135 | 35   |
| 30    | D    | -74 | -73 | -102 | -5  | 37  | 44 | 42 | 47 | 47 | 52 | 65 | 69 | 76 | 75  | 88  | 116 | 108 | 99  | -1  | 32 | -18 | -59 | -127 | -134 | 17   |
|       |      |     |     |      |     |     |    |    |    |    |    |    |    |    |     |     |     |     |     |     |    |     |     |      |      |      |
| All   |      | -6  | 2   | 9    | 17  | 22  | 26 | 30 | 31 | 30 | 30 | 34 | 41 | 52 | 61  | 66  | 73  | 68  | 61  | 48  | 32 | 14  | 7   | -2   | -19  | 30   |
| Quiet |      | 13  | 27  | 32   | 31  | 34  | 36 | 38 | 37 | 33 | 30 | 26 | 28 | 38 | 44  | 47  | 47  | 48  | 46  | 39  | 37 | 33  | 32  | 31   | 27   | 35   |
| Dist. |      | -43 | -32 | -26  | 3   | 14  | 25 | 33 | 36 | 36 | 41 | 49 | 53 | 74 | 77  | 82  | 93  | 92  | 76  | 49  | 32 | -10 | -38 | -59  | -74  | 24   |

Nurmijärvi Finland  $\label{eq:main} {\it May 2003 North component X in nT (X=14900 nT+tabular values)}$ 

| Day   | Char | 1    | 2    | 3    | 4    | 5    | 6   | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20  | 21   | 22   | 23   | 24   | Mean  |
|-------|------|------|------|------|------|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|------|------|------|-------|
| 1     | D    | -57  | -153 | -63  | -26  | -48  | -84 | -76  | -66  | -58 | -39 | -38 | -31 | -29 | 25  | 55  | 14  | -5  | 28  | 13 | -4  | -10  | -20  | -18  | -23  | -30   |
| 2     |      | -13  | -26  | -27  | -58  | -31  | -14 | -23  | -41  | -49 | -53 | -29 | -38 | -4  | -8  | 4   | 24  | 10  | 7   | 8  | 7   | 1    | -4   | 1    | 0    | -15   |
| 3     | Q    | -6   | -6   | -8   | -21  | -16  | -9  | -15  | -28  | -33 | -27 | -38 | -23 | -9  | -15 | -30 | -7  | 6   | 4   | 17 | 17  | 17   | 12   | -1   | -11  | -10   |
| 4     | Q    | -10  | -7   | -3   | -3   | -8   | -17 | -25  | -36  | -41 | -40 | -30 | -19 | -5  | 1   | 3   | 7   | 5   | 17  | 12 | 13  | 16   | 20   | 22   | 17   | -5    |
| 5     |      | 16   | 17   | 20   | 24   | 20   | 6   | -4   | -14  | -25 | -30 | -24 | -8  | -1  | 11  | 22  | 63  | 54  | 28  | 43 | 27  | 25   | 26   | 32   | 18   | 14    |
| 6     |      | 9    | 1    | 15   | 14   | 17   | 14  | 8    | -4   | -17 | -22 | -22 | -6  | 6   | 40  | 57  | 54  | 28  | 37  | 16 | 11  | 1    | -13  | -2   | -8   | 10    |
| 7     | D    | -14  | -21  | -43  | 8    | -16  | -30 | -26  | -48  | -43 | -57 | -38 | -1  | 17  | 16  | 59  | 54  | 11  | 17  | 10 | 17  | -4   | -15  | -5   | -9   | -7    |
| 8     | D    | -14  | -25  | -4   | -9   | -44  | -60 | -33  | -30  | -30 | -34 | -19 | -14 | 22  | -24 | 27  | -3  | 15  | 50  | 41 | -6  | -9   | -9   | -5   | -20  | -10   |
| 9     |      | -34  | -26  | 2    | 8    | -22  | -41 | -17  | -14  | -16 | -44 | -23 | -20 | 11  | -43 | -41 | -18 | -6  | -12 | -3 | 6   | 7    | -9   | -8   | -49  | -17   |
| 10    |      | -55  | -74  | -139 | -163 | -134 | -84 | -106 | -101 | -82 | -63 | -57 | -34 | -26 | -17 | -12 | 6   | 1   | 0   | 27 | -5  | -15  | -15  | -27  | -11  | -49   |
| 11    |      | -59  | -82  | -40  | -2   | -4   | -15 | -31  | -72  | -97 | -74 | -40 | -10 | -53 | -17 | -6  | 10  | 16  | 11  | 2  | 10  | 3    | 5    | 12   | 3    | -22   |
| 12    |      | -15  | -9   | -23  | -25  | -18  | -13 | -31  | -50  | -48 | -49 | -27 | -25 |     | 22  | 31  | -2  | -6  | 20  | 16 | -3  | -5   | 1    | -15  | -15  | (-12) |
| 13    |      | -16  | -18  | 7    | 12   | -2   | -9  | -23  | -31  | -18 | -25 | -35 | -29 | -24 | 44  | 22  | 19  | -8  | 16  | 15 | 23  | -1   | -19  | 15   | 2    | -3    |
| 14    |      | -21  | -44  | -19  | -3   | -14  | -38 | -29  | -40  | -37 | -56 | -45 | -42 | -13 | 5   | 48  | 72  | 18  | 29  | 28 | 5   | -19  | -5   | 1    | -12  | -10   |
| 15    |      | -25  | -6   | -6   | -21  | -45  | -62 | -71  | -40  | -33 | -29 | -32 | -10 | -10 | 19  | -6  | 29  | 63  | 10  | 3  | -2  | -9   | -7   | -16  | -4   | -13   |
| 16    | Q    | -16  | -12  | -6   | 1    | -8   | -20 | -31  | -45  | -43 | -37 | -24 | -6  | -5  | 1   | 7   | 10  | 12  | 16  | 21 | 18  | 1    | -11  | -2   | 0    | -8    |
| 17    | Q    | 1    | 9    | 8    | 4    | -14  | -27 | -34  | -32  | -27 | -25 | -18 | -13 | -17 | -13 | -12 | 4   | 8   | 9   | 17 | 8   | 5    | 5    | 2    | 2    | -6    |
| 18    | Q    | 3    | 6    | 9    | 12   | 5    | -5  | -11  | -22  | -27 | -26 | -22 | -14 | -5  | 0   | 4   | 13  | 25  | 42  | 35 | 37  | 24   | 9    | 7    | 5    | 4     |
| 19    |      | -5   | -17  | 4    | 2    | 4    | -2  | -17  | -24  | -28 | -31 | -24 | -22 | -22 | 10  | 20  | 11  | 14  | 22  | 25 | 14  | 8    | 4    | -15  | -23  | -4    |
| 20    |      | -14  | 1    | 2    | -2   | -7   | -17 | -24  | -34  | -52 | -52 | -52 | -20 | -33 | 5   | 14  | -8  | 3   | 12  | 15 | 13  | 14   | 2    | 3    | 3    | -10   |
| 21    |      | 2    | 6    | 0    | -18  | -9   | -18 | -26  | -27  | -33 | -33 | -23 | -12 | 22  | 31  | 50  | 26  | 89  | 79  | 18 | -10 | -45  | -137 | -93  | -56  | -9    |
| 22    |      | -75  | -63  | -52  | -54  | -56  | -39 | -51  | -80  | -75 | -50 | -33 | -28 | -8  | 23  | 71  | 59  | 8   | 9   | 15 | 12  | 15   | -2   | -6   | -5   | -19   |
| 23    |      | -5   | -1   | -15  | -43  | -58  | -41 | -25  | -20  | -28 | -30 | -5  | -12 | 18  | -8  | -12 | 17  | 41  | 45  | 11 | 10  | 3    | 0    | -4   | -14  | -7    |
| 24    |      | -3   | 2    | 4    | -3   | -27  | -24 | -36  | -43  | -27 | -27 | -25 | -14 | 7   | 23  | -11 | 3   | 22  | 31  | 32 | 20  | 4    | -1   | -21  | -19  | -6    |
| 25    |      | -41  | -19  | -44  | -37  | -31  | -31 | -44  | -50  | -42 | -47 | -30 | -27 | -19 | -8  | -6  | 13  | 34  | 44  | 33 | 11  | -7   | -8   | -6   | -13  | -16   |
| 26    |      | -9   | -15  | -37  | -2   | -3   | -9  | -19  | -54  | -57 | -37 | -34 | -32 | -10 | -4  | 17  | -16 | -1  | 16  | 29 | 28  | 12   | 14   | 17   | -29  | -10   |
| 27    |      | -20  | -32  | 3    | -33  | -54  | -50 | -42  | -39  | -38 | -56 | -20 | -28 | -34 | 13  | -9  | -8  | 25  | 26  | 32 | 27  | -4   | -27  | 3    | -41  | -17   |
| 28    |      | -24  | -10  | -41  | -11  | -19  | -29 | -29  | -40  | -54 | -36 | 7   | 63  | 24  | 19  | 33  | 28  | 26  | 33  | 26 | 7   | 2    | -27  | -35  | -55  | -6    |
| 29    | D    | -32  | -40  | -36  | -47  | -42  | -29 | -56  | -64  | -64 | -38 | -22 | -20 | 42  | 92  | 255 | 281 | 119 | 99  | -1 | -69 | -216 | -555 | -812 | -528 | -74   |
| 30    | D    | -572 | -489 | -139 | -17  | -18  | -21 | -29  | -27  | -20 | -20 | -10 | -17 | -28 | 5   | 5   | -6  | 23  | 33  | 20 | 22  | 43   | 20   | -1   | -22  | -53   |
| 31    |      | -107 | -10  | 6    | 11   | -89  | -90 | -32  | -47  | -46 | -45 | -32 | -19 | -11 | 12  | -13 | -8  | 1   | 10  | 4  | 6   | 2    | 2    | 2    | -4   | -21   |
| All   |      | -40  | -38  | -21  | -16  | -25  | -29 | -32  | -41  | -42 | -40 | -28 | -17 | -7  | 8   | 21  | 24  | 21  | 25  | 19 | 9   | -5   | -25  | -31  | -30  | -14   |
| Quiet |      | -6   | -2   | 0    | -1   | -8   | -16 | -23  | -32  | -34 | -31 | -26 | -15 | -8  | -5  | -6  | 5   | 11  | 18  | 20 | 19  | 13   | 7    | 6    | 3    | -5    |
| Dist. |      | -138 | -146 | -57  | -18  | -34  | -45 | -44  | -47  | -43 | -38 | -25 | -16 | 5   | 23  | 80  | 68  | 33  | 46  | 16 | -8  | -39  | -116 | -168 | -120 | -35   |

May 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1   | 2   | 3   | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15 | 16 | 17 | 18  | 19 | 20 | 21 | 22 | 23  | 24  | Mean |
|-------|------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|----|----|----|-----|----|----|----|----|-----|-----|------|
| 1     | D    | 138 | 111 | 50  | 54  | 53  | 39  | 35 | 41 | 37 | 38 | 32 | 11  | 4   | -5  | 40 | 23 | 28 | 36  | 45 | 31 | 47 | 54 | 59  | 42  | 43   |
| 2     |      | 24  | 28  | 30  | 17  | 24  | 46  | 59 | 58 | 45 | 26 | 4  | -2  | -13 | -7  | -2 | 26 | 21 | 22  | 27 | 28 | 31 | 16 | 33  | 33  | 24   |
| 3     | Q    | 42  | 46  | 45  | 34  | 34  | 50  | 58 | 60 | 45 | 28 | 15 | -1  | -11 | -9  | 3  | 10 | 19 | 19  | 20 | 34 | 44 | 49 | 46  | 36  | 30   |
| 4     | Q    | 31  | 33  | 42  | 52  | 56  | 57  | 56 | 45 | 30 | 14 | -3 | -10 | -10 | -5  | 5  | 10 | 16 | 20  | 17 | 22 | 21 | 21 | 20  | 29  | 24   |
| 5     |      | 31  | 33  | 36  | 40  | 49  | 50  | 50 | 45 | 30 | 12 | -7 | -19 | -17 | -13 | -3 | 1  | 30 | 7   | 14 | 26 | 18 | 25 | 41  | 25  | 21   |
| 6     |      | 31  | 36  | 48  | 46  | 48  | 45  | 42 | 37 | 35 | 22 | 7  | -7  | -6  | -3  | 31 | 14 | 21 | 51  | 42 | 63 | 24 | 37 | 38  | 47  | 31   |
| 7     | D    | 44  | 34  | 6   | 31  | 29  | 15  | 16 | 42 | 27 | 19 | 19 | 4   | 11  | 22  | 25 | 35 | 39 | 32  | 46 | 29 | 56 | 53 | 32  | 21  | 29   |
| 8     | D    | 12  | 39  | 39  | 46  | 34  | 11  | 13 | 22 | 37 | 34 | 17 | 3   | 13  | 21  | 18 | 39 | 27 | 66  | 49 | 37 | 31 | 26 | 43  | 47  | 30   |
| 9     |      | 19  | 21  | 51  | 46  | 32  | 21  | 22 | 37 | 39 | 32 | 24 | 4   | -9  | 22  | 28 | 41 | 38 | 35  | 29 | 25 | 41 | 41 | 36  | 76  | 31   |
| 10    |      | 41  | 83  | -52 | -11 | 31  | 47  | 1  | 9  | 27 | 28 | 23 | 20  | 20  | 24  | 27 | 31 | 33 | 39  | 68 | 62 | 34 | 30 | 23  | 28  | 28   |
| 11    |      | 26  | 28  | 26  | 61  | 66  | 60  | 51 | 54 | 34 | 12 | 3  | -12 | -3  | 6   | 16 | 28 | 33 | 35  | 27 | 25 | 31 | 21 | 38  | 23  | 29   |
| 12    |      | 37  | 36  | 44  | 47  | 42  | 50  | 49 | 46 | 27 | 11 | -1 | -10 |     | 1   | 17 | 16 | 14 | 23  | 38 | 30 | 22 | 32 | 32  | 20  | (27) |
| 13    |      | 44  | 10  | 36  | 47  | 45  | 47  | 39 | 39 | 36 | 37 | 11 | 2   | -2  | 13  | 29 | 18 | 22 | 34  | 54 | 70 | 34 | 9  | 25  | 37  | 31   |
| 14    |      | 33  | 7   | 33  | 39  | 35  | 45  | 40 | 43 | 57 | 43 | 26 | 16  | 12  | 13  | 32 | 43 | 32 | 43  | 32 | 51 | 20 | 30 | 42  | 44  | 34   |
| 15    |      | 41  | 38  | 47  | 46  | 41  | 41  | 28 | 22 | 29 | 23 | 10 | -2  | 10  | 9   | 23 | 24 | 41 | 35  | 37 | 45 | 56 | 38 | 26  | 15  | 30   |
| 16    | Q    | 38  | 25  | 32  | 57  | 63  | 65  | 59 | 43 | 24 | 11 | 7  | 4   | 8   | 17  | 23 | 20 | 20 | 19  | 21 | 38 | 43 | 28 | 26  | 40  | 30   |
| 17    | Q    | 19  | 44  | 57  | 60  | 62  | 42  | 28 | 19 | 22 | 17 | 2  | -3  | -2  | 5   | 14 | 21 | 24 | 24  | 23 | 25 | 20 | 25 | 27  | 30  | 25   |
| 18    | Q    | 33  | 34  | 38  | 44  | 40  | 45  | 45 | 45 | 34 | 16 | -6 | -19 | -19 | -9  | 5  | 11 | 14 | 15  | 19 | 58 | 35 | 31 | 26  | 43  | 24   |
| 19    |      | 78  | 65  | 53  | 58  | 60  | 71  | 61 | 49 | 39 | 21 | 2  | -13 | -11 | -9  | 5  | 11 | 16 | 22  | 24 | 23 | 23 | 34 | 64  | 58  | 34   |
| 20    |      | 43  | 31  | 46  | 51  | 56  | 57  | 62 | 60 | 41 | 19 | 0  | -13 | -20 | -12 | -3 | 4  | 12 | 18  | 21 | 24 | 32 | 41 | 35  | 20  | 26   |
| 21    |      | 29  | 39  | 55  | 47  | 60  | 74  | 67 | 56 | 44 | 28 | 11 | -2  | -15 | -12 | -4 | -4 | 34 | 16  | 63 | 40 | 67 | 66 | 67  | 54  | 37   |
| 22    |      | 65  | 93  | 65  | 82  | 45  | 52  | 65 | 46 | 31 | 23 | 10 | 4   | 7   | 2   | 12 | 37 | 23 | 14  | 14 | 39 | 14 | 28 | 29  | 28  | 35   |
| 23    |      | 35  | 45  | 58  | 55  | 34  | 43  | 50 | 38 | 33 | 21 | 9  | 2   | -1  | 17  | 23 | 24 | 29 | 60  | 27 | 16 | 15 | 22 | 23  | 52  | 30   |
| 24    |      | 58  | 53  | 56  | 65  | 53  | 28  | 29 | 42 | 26 | 11 | 1  | -6  | -5  | 14  | 16 | 13 | 20 | 20  | 49 | 32 | 33 | 45 | 37  | 29  | 30   |
| 25    |      | 36  | 63  | 48  | 40  | 52  | 62  | 59 | 48 | 32 | 11 | 4  | 1   | 1   | 9   | 20 | 21 | 31 | 46  | 34 | 36 | 31 | 29 | 28  | 18  | 32   |
| 26    |      | 61  | 60  | 42  | 57  | 56  | 54  | 62 | 58 | 35 | 20 | 9  | 12  | 12  | 15  | 14 | 22 | 20 | 20  | 19 | 33 | 25 | 28 | 56  | 78  | 36   |
| 27    |      | 50  | 29  | 60  | 67  | 71  | 59  | 58 | 54 | 46 | 26 | 2  | -1  | 4   | -10 | 5  | 11 | 7  | 23  | 19 | 50 | 50 | 40 | 46  | 39  | 34   |
| 28    |      | 57  | 57  | 66  | 64  | 73  | 66  | 41 | 45 | 37 | 18 | 13 | -3  | -11 | -2  | -1 | 16 | 28 | 25  | 22 | 26 | 27 | 21 | 35  | 50  | 32   |
| 29    | D    | 46  | 35  | 38  | 42  | 55  | 65  | 70 | 53 | 31 | 20 | 7  | 0   | -9  | -12 | -3 | 30 | -3 | -21 | 45 | 32 | 51 | 81 | 153 | 243 | 44   |
| 30    | D    | 245 | 264 | 111 | 90  | 134 | 125 | 99 | 63 | 30 | 19 | 9  | 7   | 17  | 22  | 27 | 34 | 15 | 13  | 17 | 19 | 67 | 58 | 15  | 51  | 65   |
| 31    |      | 19  | 37  | 65  | 72  | 62  | 14  | 53 | 52 | 39 | 19 | 4  | 0   | 3   | 10  | 22 | 34 | 34 | 33  | 30 | 28 | 30 | 34 | 33  | 34  | 32   |
| All   |      | 49  | 50  | 44  | 50  | 51  | 50  | 47 | 44 | 35 | 22 | 9  | -1  | -1  | 4   | 15 | 21 | 24 | 27  | 32 | 35 | 35 | 35 | 40  | 45  | 32   |
| Quiet |      | 33  | 36  | 43  | 49  | 51  | 52  | 49 | 42 | 31 | 17 | 3  | -6  | -7  | 0   | 10 | 14 | 19 | 19  | 20 | 35 | 33 | 31 | 29  | 35  | 27   |
| Dist. |      | 97  | 97  | 49  | 53  | 61  | 51  | 47 | 44 | 32 | 26 | 17 | 5   | 7   | 10  | 21 | 32 | 21 | 25  | 40 | 30 | 50 | 54 | 60  | 81  | 42   |

May 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1    | 2    | 3    | 4    | 5    | 6   | 7   | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20   | 21   | 22  | 23   | 24   | Mean |
|-------|------|------|------|------|------|------|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|------|------|-----|------|------|------|
| 1     | D    | -199 | -224 | -25  | 13   | 7    | 10  | 36  | 47 | 61 | 76 | 95 | 82  | 69  | 105 | 132 | 92  | 81  | 65  | 24 | 39   | 46   | 42  | 32   | 27   | 31   |
| 2     |      | 24   | 6    | 3    | 7    | 31   | 43  | 44  | 46 | 46 | 42 | 41 | 38  | 54  | 60  | 64  | 75  | 55  | 48  | 49 | 45   | 37   | 11  | 12   | 18   | 37   |
| 3     | Q    | 29   | 32   | 34   | 30   | 32   | 37  | 40  | 36 | 34 | 30 | 33 | 43  | 48  | 53  | 48  | 43  | 45  | 42  | 41 | 41   | 38   | 22  | 17   | 21   | 36   |
| 4     | Q    | 25   | 28   | 31   | 36   | 37   | 34  | 34  | 33 | 28 | 23 | 24 | 31  | 37  | 39  | 37  | 35  | 34  | 38  | 37 | 37   | 37   | 36  | 34   | 34   | 33   |
| 5     |      | 35   | 36   | 36   | 36   | 34   | 32  | 33  | 33 | 25 | 23 | 22 | 27  | 33  | 32  | 35  | 54  | 74  | 55  | 50 | 47   | 38   | 13  | 5    | 17   | 34   |
| 6     |      | 27   | 27   | 36   | 35   | 33   | 28  | 28  | 29 | 28 | 25 | 23 | 35  | 57  | 78  | 102 | 110 | 98  | 91  | 60 | 39   | 21   | 3   | -52  | -86  | 36   |
| 7     | D    | -61  | -25  | -78  | -23  | 2    | 15  | 26  | 40 | 48 | 42 | 69 | 94  | 115 | 117 | 123 | 107 | 102 | 75  | 63 | 21   | -15  | 10  | 32   | 24   | 39   |
| 8     | D    | -35  | -49  | 16   | 35   | 23   | 14  | 16  | 30 | 37 | 44 | 51 | 57  | 94  | 72  | 83  | 81  | 70  | 88  | 25 | 36   | 33   | -31 | -57  | -24  | 30   |
| 9     |      | -23  | -49  | 6    | 23   | 19   | 19  | 26  | 23 | 21 | 17 | 43 | 71  | 107 | 104 | 63  | 69  | 62  | 49  | 45 | 42   | 29   | -10 | -32  | -64  | 27   |
| 10    |      | -79  | -192 | -243 | -204 | -130 | -34 | -12 | 12 | 34 | 52 | 56 | 53  | 54  | 51  | 46  | 50  | 56  | 58  | 50 | 44   | 40   | 38  | 24   | 29   | -6   |
| 11    |      | -24  | -110 | -50  | 14   | 31   | 33  | 35  | 38 | 41 | 40 | 36 | 52  | 56  | 73  | 75  | 91  | 79  | 77  | 60 | 44   | 24   | 23  | 0    | 10   | 31   |
| 12    |      | 19   | 35   | 32   | 30   | 34   | 31  | 33  | 31 | 27 | 33 | 47 | 51  |     | 94  | 94  | 68  | 51  | 58  | 70 | 54   | -6   | 13  | 6    | -2   | (39) |
| 13    |      | -29  | -16  | 28   | 39   | 36   | 36  | 35  | 38 | 37 | 43 | 53 | 52  | 48  | 95  | 91  | 81  | 74  | 80  | 59 | 33   | 31   | -16 | -26  | -8   | 37   |
| 14    |      | 11   | -38  | -11  | 15   | 20   | 32  | 40  | 38 | 44 | 42 | 41 | 43  | 49  | 67  | 97  | 92  | 75  | 72  | 26 | 41   | -11  | -8  | -4   | -1   | 32   |
| 15    |      | -7   | 12   | 29   | 32   | 31   | 36  | 36  | 47 | 46 | 37 | 31 | 43  | 65  | 78  | 75  | 79  | 71  | 62  | 58 | 43   | 37   | 33  | 8    | -10  | 41   |
| 16    | Q    | 12   | 12   | 8    | 29   | 38   | 40  | 41  | 40 | 36 | 33 | 31 | 35  | 39  | 40  | 39  | 38  | 39  | 42  | 45 | 48   | 33   | 0   | -11  | -5   | 29   |
| 17    | Q    | 6    | 27   | 38   | 38   | 36   | 34  | 33  | 32 | 30 | 19 | 15 | 24  | 33  | 39  | 37  | 44  | 47  | 48  | 45 | 45   | 38   | 35  | 38   | 40   | 34   |
| 18    | Q    | 40   | 40   | 39   | 35   | 33   | 34  | 35  | 33 | 26 | 16 | 13 | 21  | 31  | 35  | 35  | 38  | 41  | 45  | 51 | 50   | 19   | 32  | 32   | 19   | 33   |
| 19    |      | 11   | 4    | 14   | 28   | 35   | 37  | 35  | 35 | 29 | 24 | 25 | 30  | 31  | 39  | 52  | 62  | 67  | 64  | 60 | 52   | 45   | 19  | 12   | -8   | 33   |
| 20    |      | 3    | 11   | 26   | 38   | 38   | 38  | 36  | 30 | 30 | 26 | 23 | 33  | 37  | 62  | 68  | 52  | 44  | 40  | 39 | 37   | 36   | 30  | 31   | 7    | 34   |
| 21    |      | -4   | 10   | 16   | 14   | 26   | 32  | 28  | 26 | 23 | 22 | 22 | 24  | 34  | 45  | 63  | 67  | 89  | 84  | 48 | 28   | -42  | -73 | -114 | -47  | 18   |
| 22    |      | -115 | -109 | -101 | -19  | 3    | 34  | 42  | 45 | 52 | 49 | 54 | 59  | 68  | 77  | 130 | 116 | 72  | 55  | 52 | 58   | 12   | 35  | 36   | 36   | 31   |
| 23    |      | 38   | 44   | 34   | 19   | 13   | 8   | 25  | 39 | 40 | 46 | 57 | 49  | 63  | 62  | 54  | 57  | 70  | 72  | 48 | 42   | 38   | 41  | 39   | 19   | 42   |
| 24    |      | -1   | 28   | 41   | 40   | 29   | 13  | 18  | 24 | 35 | 35 | 35 | 34  | 49  | 87  | 75  | 60  | 66  | 72  | 76 | 43   | 28   | 19  | 19   | -19  | 38   |
| 25    |      | -26  | 2    | -20  | -3   | 23   | 42  | 50  | 50 | 48 | 45 | 48 | 46  | 45  | 41  | 42  | 51  | 68  | 77  | 66 | 56   | 50   | 49  | 47   | 18   | 38   |
| 26    |      | -14  | -6   | -35  | 17   | 32   | 37  | 41  | 38 | 43 | 48 | 44 | 40  | 40  | 46  | 54  | 49  | 46  | 45  | 44 | 47   | 38   | 14  | -13  | -38  | 27   |
| 27    |      | -10  | -55  | -45  | -24  | 1    | 14  | 28  | 41 | 40 | 30 | 36 | 46  | 51  | 54  | 55  | 49  | 54  | 62  | 58 | 51   | -27  | -36 | 6    | -22  | 19   |
| 28    |      | -98  | -74  | -80  | -10  | 22   | 36  | 47  | 48 | 47 | 53 | 67 | 126 | 107 | 87  | 82  | 107 | 96  | 84  | 55 | 41   | 26   | 3   | -22  | -37  | 34   |
| 29    | D    | -69  | -26  | 3    | 7    | 26   | 45  | 46  | 51 | 46 | 48 | 53 | 61  | 75  | 110 | 216 | 255 | 162 | 166 | 16 | -234 | -276 | -61 | 79   | -102 | 29   |
| 30    | D    | -94  | 97   | 76   | 87   | 65   | 57  | 46  | 50 | 56 | 58 | 57 | 62  | 59  | 65  | 74  | 80  | 73  | 78  | 67 | 66   | 1    | -26 | -12  | 22   | 49   |
| 31    |      | -71  | -24  | 28   | 36   | 3    | -36 | 13  | 25 | 32 | 34 | 36 | 38  | 46  | 60  | 62  | 62  | 57  | 56  | 52 | 50   | 48   | 49  | 48   | 47   | 31   |
| All   |      | -22  | -18  | -4   | 14   | 21   | 27  | 33  | 36 | 38 | 37 | 41 | 48  | 56  | 67  | 74  | 74  | 68  | 66  | 50 | 35   | 14   | 10  | 7    | -3   | 32   |
| Quiet |      | 22   | 28   | 30   | 34   | 35   | 36  | 37  | 35 | 31 | 24 | 23 | 31  | 37  | 41  | 39  | 39  | 41  | 43  | 44 | 44   | 33   | 25  | 22   | 22   | 33   |
| Dist. |      | -91  | -45  | -2   | 24   | 25   | 28  | 34  | 44 | 50 | 53 | 65 | 71  | 83  | 93  | 126 | 123 | 98  | 94  | 39 | -14  | -42  | -13 | 15   | -10  | 35   |

Nurmijärvi Finland  $\label{eq:murmijarvi} \mbox{June 2003 North component X in nT (X = 14900 nT + tabular values)}$ 

| Day   | Char | 1   | 2   | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20  | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|------|
| 1     |      | 2   | 1   | -9  | -20 | -13 | -33  | -25  | -34  | -42  | -42  | -41 | -22 | 20  | 3   | -13 | 10  | 21  | 32 | 37 | 28  | -9  | -5  | 11  | 2   | -6   |
| 2     | D    | 5   | 19  | 1   | -29 | -24 | -46  | -97  | -110 | -80  | -61  | -47 | -37 | -43 | -15 | 14  | 2   | 8   | 13 | 17 | 11  | 5   | 11  | 2   | -42 | -22  |
| 3     |      | -53 | -3  | -1  | -14 | -16 | -24  | -36  | -42  | -32  | -37  | -37 | -19 | 10  | -10 | 25  | -15 | 6   | 22 | 32 | 27  | 10  | -40 | -36 | -17 | -12  |
| 4     |      | -10 | 7   | -3  | 4   | -5  | -12  | -26  | -41  | -40  | -36  | -18 | -12 | 9   | 13  | 28  | 64  | 31  | 42 | 53 | 10  | -2  | -2  | 4   | -4  | 2    |
| 5     | Q    | -6  | -6  | -3  | -5  | -3  | -9   | -22  | -37  | -48  | -32  | -15 | 0   | 2   | 12  | 12  | 47  | 23  | 17 | 20 | 2   | 2   | 8   | 8   | 9   | -1   |
| 6     |      | 7   | 8   | 5   | 7   | 9   | 3    | -15  | -20  | -25  | -35  | -40 | -27 | -12 | 17  | 5   | 24  | 53  | 35 | 33 | 18  | 20  | 13  | 8   | 16  | 4    |
| 7     |      | 2   | -18 | 2   | -4  | -19 | -12  | -14  | -24  | -20  | -12  | -11 | 0   | -4  | -21 | 19  | 48  | 27  | 27 | 24 | 25  | 29  | 0   | 3   | 1   | 2    |
| 8     |      | 9   | -7  | -24 | -45 | -34 | -24  | -18  | -19  | -33  | -25  | -37 | -10 | -11 | 13  | 36  | 87  | 109 | 67 | 25 | 8   | 12  | -36 | -46 | -35 | -2   |
| 9     |      | -15 | 1   | -4  | -36 | -33 | -36  | -39  | -29  | -25  | -27  | 0   | -42 | 0   | 1   | 11  | 19  | 17  | 37 | 26 | 22  | 16  | -89 | -93 | -68 | -16  |
| 10    |      | 0   | 13  | 12  | 11  | -2  | -20  | -33  | -69  | -59  | -23  | -14 | -24 | -18 | -17 | 12  | 18  | 28  | 10 | 37 | 24  | 16  | 13  | 2   | -2  | -4   |
| 11    |      | -3  | 2   | 5   | -8  | 1   | 2    | -22  | -31  | -21  | -27  | -24 | -19 | -4  | -10 | -6  | 15  | 29  | 33 | 32 | 23  | 24  | 5   | 2   | 4   | 0    |
| 12    | Q    | 7   | 16  | 12  | 2   | -5  | -11  | -16  | -15  | -20  | -24  | -26 |     | 8   | -3  | 22  | 33  | 16  | 21 | 18 | 18  | 18  | 15  | 13  | 13  | (5)  |
| 13    | Q    | 11  | 13  | 15  | 11  | 5   | 1    | 0    | -4   | -17  | -27  | -31 | -26 | -8  | 11  | 11  | 15  | 25  | 26 | 36 | 35  | 33  | 20  | 19  | 11  | 8    |
| 14    |      | 13  | 20  | 22  | 18  | -23 | -49  | -62  | -53  | -38  | -32  | -24 | -20 | -40 | -1  | 14  | 35  | 67  | 59 | 47 | 29  | 12  | 19  | 6   | 5   | 1    |
| 15    |      | -7  | -17 | 5   | 8   | -27 | -49  | -42  | -38  | -55  | -60  | -46 | -14 | 3   | 12  | 39  | 58  | 50  | 40 | 31 | 18  | 16  | 15  | 13  | 3   | -2   |
| 16    | D    | 19  | 13  | -12 | -8  | 21  | 7    | -11  | -18  | -20  | -18  | -19 | -21 | 23  | 70  | 53  | 30  | 25  | 27 | 4  | -35 | -50 | -72 | -82 | -99 | -7   |
| 17    | D    | -54 | -13 | -93 | -72 | -58 | -105 | -110 | -107 | -90  | -38  | -13 | -18 | 33  | -2  | 10  | -4  | -1  | -1 | -6 | 2   | -6  | -13 | -22 | -32 | -34  |
| 18    | D    | -10 | -75 | -71 | -18 | -55 | -105 | -202 | -191 | -161 | -100 | -56 | -16 | -10 | -5  | 31  | 13  | 76  | 22 | 27 | 11  | -16 | -24 | -28 | -26 | -41  |
| 19    |      | -78 | -70 | -48 | -24 | -20 | -56  | -57  | -54  | -53  | -38  | -55 | -37 | -32 | -4  | -2  | 13  | 27  | 19 | 19 | 25  | -6  | -7  | -5  | -6  | -23  |
| 20    | Q    | -13 | -9  | -6  | -8  | -8  | -14  | -21  | -21  | -26  | -41  | -31 | -18 | -16 | 12  | 30  | 40  | 11  | 8  | 10 | 7   | 13  | 7   | 2   | -3  | -4   |
| 21    |      | -30 | -50 | -44 | -20 | -19 | -42  | -66  | -69  | -54  | -58  | -43 | -26 | -20 | -6  | 2   | 20  | 61  | 35 | 7  | 7   | 6   | 2   | -11 | -16 | -18  |
| 22    | Q    | -5  | -21 | -7  | -6  | -4  | -21  | -39  | -49  | -44  | -35  | -43 | -43 | -28 | -16 | -1  | 19  | 33  | 46 | 40 | 18  | 6   | -11 | -21 | -21 | -11  |
| 23    |      | -20 | -23 | -17 | -2  | -13 | -38  | -29  | -29  | -33  | -41  | -43 | -32 | -31 | 3   | -7  | -2  | 26  | 35 | 34 | 28  | 22  | 17  | -1  | -3  | -8   |
| 24    |      | -13 | -24 | -28 | -21 | -35 | -51  | -50  | -58  | -55  | -38  | -20 | 2   | 68  | 7   | 17  | 9   | -2  | -2 | -2 | 2   | 8   | -6  | -6  | -6  | -13  |
| 25    |      | -4  | -5  | 0   | 0   | -6  | -9   | -37  | -36  | -35  | -36  | -36 | -19 | -7  | -3  | 6   | 52  | 33  | 43 | 23 | 22  | 2   | 1   | -21 | 0   | -3   |
| 26    |      | -24 | -15 | 7   | -1  | -12 | -10  | -21  | -17  | -24  | -40  | -31 | -16 | 43  | 23  | 27  | 5   | 18  | 35 | 27 | 26  | 29  | 28  | 27  | 16  | 4    |
| 27    |      | 18  | -18 | 12  | 14  | 1   | 1    | -36  | -58  | -39  | -44  | -30 | -7  | -13 | 78  | 49  | 26  | 51  | 51 | 15 | 38  | 15  | 19  | -15 | -6  | 5    |
| 28    | D    | 1   | -5  | -16 | -20 | -43 | 0    | -7   | -18  | -24  | -44  | -64 | -34 | 11  | 80  | 69  | 20  | 79  | 50 | 22 | 23  | 8   | 3   | -30 | -18 | 2    |
| 29    |      | -28 | -29 | 1   | -4  | 1   | -16  | -29  | -41  | -63  | -83  | -53 | -9  | -3  | 2   | -7  | 19  | 22  | 15 | 25 | 32  | 19  | 15  | -13 | -14 | -10  |
| 30    |      | 3   | 3   | -27 | -26 | -3  | -20  | -14  | -40  | -30  | -35  | -39 | -23 | -10 | 22  | 20  | 42  | 22  | 21 | 20 | 19  | 17  | 9   | 17  | 9   | -2   |
|       |      |     |     |     |     |     |      |      |      |      |      |     |     |     |     |     |     |     |    |    |     |     |     |     |     |      |
| All   |      | -9  | -10 | -10 | -11 | -15 | -27  | -40  | -46  | -43  | -40  | -33 | -20 | -3  | 9   | 17  | 25  | 33  | 29 | 24 | 17  | 9   | -3  | -10 | -11 | -7   |
| Quiet |      | -1  | -2  | 2   | -1  | -3  | -11  | -19  | -25  | -31  | -31  | -29 | -22 | -9  | 3   | 15  | 31  | 21  | 24 | 25 | 16  | 14  | 8   | 4   | 2   | -1   |
| Dist. |      | -8  | -12 | -38 | -29 | -32 | -50  | -85  | -89  | -75  | -52  | -40 | -25 | 3   | 26  | 35  | 12  | 37  | 22 | 13 | 2   | -12 | -19 | -32 | -44 | -20  |

June 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16 | 17 | 18 | 19 | 20 | 21 | 22  | 23  | 24  | Mean |
|-------|------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|----|-----|-----|-----|------|
| 1     |      | 39 | 38 | 38 | 36 | 55 | 45 | 56 | 46 | 35 | 29 | 16 | 11  | 7   | 15  | 23  | 23 | 17 | 22 | 24 | 51 | 64 | 43  | 29  | 8   | 32   |
| 2     | D    | 28 | 27 | 33 | 15 | 15 | 46 | 92 | 73 | 42 | 35 | 17 | 18  | 9   | 4   | 23  | 40 | 39 | 40 | 49 | 30 | 30 | 27  | 21  | 27  | 33   |
| 3     |      | 50 | 51 | 66 | 60 | 63 | 59 | 57 | 50 | 39 | 30 | 24 | 10  | 0   | 2   | 17  | 21 | 24 | 27 | 23 | 29 | 11 | 16  | 32  | 33  | 33   |
| 4     |      | 63 | 53 | 59 | 65 | 67 | 65 | 58 | 43 | 36 | 24 | 16 | -2  | -2  | 11  | 15  | 42 | 27 | 33 | 38 | 32 | 23 | 16  | 27  | 10  | 34   |
| 5     | Q    | 17 | 28 | 38 | 52 | 63 | 70 | 65 | 54 | 40 | 25 | 6  | -2  | 3   | 6   | 15  | 40 | 30 | 31 | 46 | 33 | 18 | 19  | 18  | 31  | 31   |
| 6     |      | 30 | 38 | 49 | 54 | 63 | 62 | 50 | 49 | 37 | 21 | 7  | -6  | -7  | 1   | 12  | 20 | 28 | 44 | 31 | 45 | 40 | 30  | 32  | 20  | 31   |
| 7     |      | 16 | 7  | 36 | 43 | 62 | 66 | 53 | 44 | 35 | 25 | 13 | 16  | 19  | 14  | 15  | 20 | 40 | 35 | 22 | 19 | 27 | 66  | 65  | 48  | 34   |
| 8     |      | 54 | 42 | 37 | 48 | 53 | 52 | 63 | 59 | 45 | 41 | 32 | 19  | 13  | 9   | 4   | 10 | 15 | 29 | 31 | 23 | 37 | 38  | 71  | 60  | 37   |
| 9     |      | 40 | 48 | 48 | 45 | 48 | 38 | 46 | 47 | 48 | 36 | 25 | 19  | 11  | 20  | 14  | 13 | 16 | 21 | 23 | 27 | 22 | 25  | 85  | 58  | 34   |
| 10    |      | 60 | 48 | 55 | 61 | 55 | 52 | 43 | 58 | 20 | 21 | 6  | 5   | 11  | 15  | 18  | 15 | 21 | 21 | 30 | 21 | 22 | 25  | 27  | 23  | 31   |
| 11    |      | 33 | 39 | 43 | 41 | 52 | 59 | 62 | 63 | 48 | 32 | 17 | 8   | 2   | 12  | 16  | 18 | 25 | 33 | 27 | 29 | 37 | 30  | 30  | 32  | 33   |
| 12    | Q    | 36 | 42 | 47 | 52 | 61 | 68 | 68 | 60 | 51 | 38 | 20 |     | -2  | 1   | 11  | 22 | 29 | 34 | 33 | 28 | 25 | 25  | 28  | 21  | (35) |
| 13    | Q    | 24 | 42 | 54 | 62 | 64 | 61 | 59 | 55 | 42 | 25 | 9  | 1   | 1   | 4   | 10  | 18 | 25 | 26 | 18 | 19 | 23 | 54  | 56  | 46  | 33   |
| 14    |      | 43 | 48 | 59 | 62 | 55 | 29 | 31 | 43 | 29 | 17 | -5 | -20 | -30 | -22 | -7  | -6 | 6  | 41 | 50 | 28 | 46 | 47  | 38  | 34  | 26   |
| 15    |      | 39 | 35 | 43 | 71 | 66 | 75 | 51 | 58 | 46 | 28 | 6  | -18 | -24 | -15 | -10 | -9 | -1 | 5  | 31 | 18 | 13 | 35  | 36  | 34  | 26   |
| 16    | D    | 51 | 48 | 62 | 18 | 65 | 72 | 71 | 61 | 47 | 27 | 5  | -14 | -24 | -22 | -17 | 15 | 29 | 33 | 25 | 23 | 50 | 102 | 113 | 133 | 41   |
| 17    | D    | 93 | 55 | 71 | 73 | 52 | 4  | 25 | 51 | 52 | 34 | 15 | 8   | -3  | -8  | -7  | 22 | 11 | 8  | 13 | 11 | 20 | 44  | 42  | 43  | 30   |
| 18    | D    | 84 | 62 | 44 | 57 | 50 | 67 | 51 | 58 | 73 | 25 | 17 | 16  | 15  | 7   | 5   | 26 | 7  | 28 | 54 | 35 | 23 | 56  | 57  | 45  | 40   |
| 19    |      | 60 | 55 | 45 | 57 | 75 | 79 | 64 | 60 | 52 | 41 | 25 | 12  | 3   | 1   | 8   | 24 | 26 | 28 | 40 | 46 | 28 | 27  | 29  | 32  | 38   |
| 20    | Q    | 39 | 45 | 56 | 68 | 75 | 73 | 72 | 65 | 50 | 27 | 10 | -3  | -10 | -16 | -10 | 16 | 23 | 24 | 23 | 25 | 21 | 31  | 38  | 37  | 32   |
| 21    |      | 30 | 32 | 49 | 54 | 49 | 64 | 61 | 57 | 35 | 26 | 18 | 12  | 14  | 9   | 15  | 15 | 16 | 40 | 23 | 18 | 33 | 61  | 46  | 50  | 35   |
| 22    | Q    | 45 | 53 | 53 | 60 | 66 | 64 | 59 | 52 | 43 | 24 | 11 | 2   | -2  | 3   | 9   | 15 | 20 | 22 | 45 | 46 | 38 | 32  | 48  | 51  | 36   |
| 23    |      | 50 | 47 | 57 | 68 | 76 | 73 | 64 | 56 | 51 | 34 | 14 | 11  | 12  | 5   | 14  | 21 | 17 | 19 | 39 | 23 | 34 | 42  | 34  | 45  | 38   |
| 24    |      | 45 | 42 | 24 | 47 | 66 | 53 | 43 | 40 | 46 | 23 | 16 | 5   | -1  | 12  | 6   | 13 | 22 | 27 | 27 | 24 | 29 | 26  | 31  | 33  | 29   |
| 25    |      | 43 | 44 | 59 | 67 | 64 | 69 | 77 | 64 | 52 | 37 | 19 | 4   | -8  | -4  | 9   | 13 | 30 | 40 | 30 | 35 | 50 | 25  | 6   | 40  | 36   |
| 26    |      | 46 | 35 | 56 | 68 | 53 | 71 | 79 | 66 | 52 | 29 | -3 | -8  | -16 | -3  | -2  | 8  | 15 | 21 | 19 | 22 | 30 | 20  | 18  | 10  | 29   |
| 27    |      | 30 | 14 | 44 | 62 | 68 | 79 | 74 | 59 | 32 | 18 | 7  | 11  | 0   | -3  | 28  | 30 | 24 | 23 | 28 | 37 | 36 | 34  | 22  | 21  | 32   |
| 28    | D    | 46 | 38 | 34 | 37 | 9  | 35 | 62 | 63 | 46 | 45 | 18 | -2  | -14 | -3  | 17  | 19 | 33 | 36 | 35 | 33 | 17 | 20  | 4   | 44  | 28   |
| 29    |      | 31 | 41 | 49 | 42 | 67 | 79 | 68 | 69 | 66 | 57 | 30 | 19  | 18  | 20  | 28  | 35 | 41 | 35 | 27 | 37 | 32 | 27  | 10  | 41  | 40   |
| 30    |      | 24 | 51 | 43 | 35 | 44 | 42 | 58 | 41 | 39 | 31 | 15 | 4   | 2   | 12  | 14  | 26 | 34 | 37 | 32 | 36 | 44 | 32  | 44  | 35  | 32   |
|       |      |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |    |    |     |     |     |      |
| All   |      | 43 | 42 | 48 | 53 | 57 | 59 | 59 | 55 | 44 | 30 | 14 | 5   | 0   | 3   | 10  | 19 | 23 | 29 | 31 | 29 | 31 | 36  | 38  | 38  | 33   |
| Quiet |      | 32 | 42 | 50 | 59 | 66 | 67 | 65 | 57 | 45 | 28 | 11 | 0   | -2  | -1  | 7   | 22 | 25 | 27 | 33 | 30 | 25 | 32  | 38  | 37  | 33   |
| Dist. |      | 60 | 46 | 49 | 40 | 38 | 45 | 60 | 61 | 52 | 33 | 14 | 5   | -4  | -4  | 4   | 25 | 24 | 29 | 35 | 26 | 28 | 50  | 47  | 58  | 34   |

June 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day            | Char | 1   | 2       | 3   | 4   | 5   | 6   | 7   | 8   | 9  | 10 | 11  | 12       | 13       | 14  | 15  | 16  | 17  | 18       | 19 | 20 | 21  | 22       | 23   | 24   | Mean     |
|----------------|------|-----|---------|-----|-----|-----|-----|-----|-----|----|----|-----|----------|----------|-----|-----|-----|-----|----------|----|----|-----|----------|------|------|----------|
| 1              |      | 50  | 50      | 44  | 43  | 48  | 44  | 47  | 49  | 54 | 50 | 48  | 50       | 63       | 71  | 79  | 76  | 66  | 69       | 69 | 62 | 18  | -1       | 10   | -41  | 47       |
| 2              | D    | -34 | 10      | 19  | -3  | -33 | -6  | 7   | 23  | 58 | 68 | 73  | 94       | 84       | 89  | 98  | 104 | 90  | 83       | 71 | 50 | 52  | 48       | 14   | -44  | 42       |
| 3              |      | -55 | 1       | 22  | 39  | 43  | 50  | 52  | 53  | 53 | 49 | 60  | 61       | 64       | 65  | 86  | 69  | 67  | 70       | 63 | 52 | 7   | -91      | -62  | -90  | 30       |
| 4              |      | -42 | -18     | 11  | 43  | 43  | 45  | 45  | 42  | 42 | 49 | 63  | 63       | 78       | 79  | 74  | 85  | 73  | 85       | 58 | 55 | 31  | 28       | 37   | 14   | 45       |
| 5              | Q    | 11  | 25      | 32  | 40  | 53  | 52  | 48  | 45  | 44 | 44 | 37  | 46       | 57       | 61  | 64  | 71  | 63  | 63       | 69 | 57 | 50  | 49       | 41   | 33   | 48       |
| 6              |      | 38  | 40      | 41  | 42  | 44  | 42  | 42  | 43  | 39 | 37 | 42  | 50       | 55       | 62  | 66  | 70  | 83  | 89       | 73 | 59 | 53  | 39       | 31   | 4    | 49       |
| 7              |      | 8   | -6      | 7   | 9   | 26  | 34  | 38  | 42  | 37 | 33 | 33  | 45       | 64       | 73  | 84  | 98  | 99  | 86       | 72 | 58 | 44  | 8        | 2    | 20   | 42       |
| 8              |      | 32  | 29      | 24  | 9   | 20  | 40  | 46  | 42  | 44 | 47 | 40  | 43       | 54       | 68  | 79  | 102 | 82  | 75       | 66 | 53 | -10 | -70      | -35  | -22  | 36       |
| 9              |      | 1   | 35      | 41  | 24  | 28  | 30  | 36  | 43  | 44 | 44 | 59  | 58       | 64       | 75  | 68  | 62  | 64  | 65       | 61 | 48 | 38  | -128     | -117 | -113 | 26       |
| 10             |      | -34 | 28      | 45  | 51  | 48  | 44  | 49  | 54  | 67 | 62 | 56  | 59       | 57       | 56  | 69  | 74  | 80  | 73       | 64 | 32 | 46  | 46       | 34   | 25   | 49       |
| 11             |      | 28  | 38      | 36  | 33  | 34  | 37  | 37  | 42  | 38 | 35 | 28  | 27       | 42       | 49  | 53  | 58  | 61  | 59       | 52 | 50 | 46  | 39       | 43   | 44   | 42       |
| 12             | Q    | 45  | 49      | 49  | 46  | 44  | 39  | 37  | 34  | 28 | 27 | 28  |          | 48       | 50  | 53  | 59  | 56  | 51       | 46 | 45 | 45  | 44       | 39   | 30   | (43)     |
| 13             | Q    | 19  | 30      | 32  | 32  | 30  | 32  | 31  | 29  | 32 | 27 | 27  | 28       | 32       | 37  | 40  | 46  | 49  | 45       | 42 | 42 | 42  | 29       | 6    | 14   | 32       |
| 14             |      | 27  | 35      | 37  | 37  | 34  | 32  | 31  | 35  | 45 | 44 | 42  | 56       | 59       | 54  | 53  | 51  | 64  | 81       | 61 | 49 | 38  | 22       | 23   | 25   | 43       |
| 15             |      | 18  | -5      | -6  | 23  | 20  | 34  | 39  | 38  | 35 | 36 | 37  | 43       | 53       | 56  | 59  | 62  | 64  | 65       | 57 | 42 | 40  | 37       | 27   | 14   | 37       |
| 16             | D    | 22  | 31      | 14  | -39 | 1   | 19  | 27  | 32  | 28 | 26 | 39  | 64       | 90       | 122 | 142 | 142 | 123 | 89       | 29 | -4 | -22 | -77      | -146 | -149 | 25       |
| 17             | D    | -55 | 0       | -33 | -31 | -16 | -47 | -14 | 23  | 45 | 93 | 101 | 108      | 96       | 77  | 81  | 102 | 76  | 60       | 48 | 41 | 34  | 40       | 27   | 8    | 36       |
| 18             | D    | -36 | -58     | -51 | 2   | 5   | 1   | -24 | -11 | -2 | 41 | 84  | 57       | 64       | 84  | 131 | 116 | 118 | 101      | 97 | 62 | 48  | 11       | 5    | 14   | 36       |
| 19             |      | -23 | -20     | 5   | 34  | 52  | 46  | 55  | 62  | 65 | 62 | 56  | 62       | 59       | 67  | 61  | 67  | 76  | 79       | 80 | 47 | 51  | 55       | 57   | 57   | 50       |
| 20             | Q    | 52  | 56      | 56  | 56  | 54  | 48  | 46  | 49  | 44 | 40 | 39  | 45       | 50       | 58  | 64  | 79  | 71  | 66       | 59 | 57 | 44  | 28       | 43   | 46   | 52       |
| 21             |      | 25  | -52     | -45 | -5  | 19  | 26  | 28  | 47  | 57 | 56 | 54  | 53       | 52       | 54  | 61  | 68  | 95  | 98       | 67 | 55 | 46  | 29       | 29   | 34   | 40       |
| 22             | Q    | 44  | 36      | 47  | 47  | 49  | 44  | 38  | 36  | 40 | 45 | 50  | 45       | 38       | 42  | 48  | 53  | 59  | 67       | 72 | 46 | 50  | 41       | 21   | 5    | 44       |
| 23             |      | -3  | -36     | 2   | 33  | 41  | 37  | 41  | 42  | 42 | 43 | 52  | 49       | 45       | 54  | 56  | 61  | 60  | 59       | 65 | 55 | 55  | 33       | 26   | 24   | 39       |
| 24             |      | 29  | 22      | -30 | -24 | 7   | 14  | 20  | 29  | 42 | 56 | 75  | 91       | 155      | 125 | 112 | 90  | 77  | 68       | 57 | 51 | 46  | 35       | 26   | 38   | 50       |
| 25             |      | 42  | 48      | 48  | 45  | 46  | 48  | 45  | 52  | 42 | 44 | 46  | 47       | 54       | 56  | 56  | 70  | 76  | 77       | 57 | 49 | 49  | 47       | 15   | 11   | 49       |
| 26             |      | 10  | 16      | 33  | 37  | 34  | 39  | 41  | 45  | 40 | 40 | 44  | 48       | 67       | 64  | 64  | 64  | 60  | 61       | 57 | 51 | 44  | 41       | 35   | 24   | 44       |
| 27             |      | 26  | 27      | 27  | 36  | 22  | 29  | 32  | 42  | 50 | 55 | 56  | 72       | 90       | 122 | 166 | 126 | 95  | 68       | 50 | 41 | 34  | 35       | 6    | -13  | 54       |
| 28             | D    | 31  | 38      | 19  | 10  | -15 | -7  | 20  | 35  | 36 | 41 | 63  | 62       | 76       | 99  | 146 | 124 | 125 | 66       | 68 | 63 | 49  | 40       | -25  | -28  | 47       |
| 29             |      | -22 | -44     | -6  | 9   | 21  | 32  | 38  | 38  | 45 | 52 | 47  | 57       | 64       | 72  | 82  | 78  | 76  | 71       | 66 | 44 | 39  | 37       | -7   | -23  | 36       |
| 30             |      | 21  | 32      | 20  | 12  | 21  | 28  | 47  | 47  | 62 | 56 | 48  | 41       | 51       | 71  | 72  | 88  | 85  | 83       | 71 | 62 | 59  | 47       | 45   | 43   | 50       |
| All            |      | 9   | 15      | 18  | 23  | 27  | 30  | 34  | 39  | 43 | 47 | 51  | 56       | 64       | 70  | 79  | 80  | 78  | 72       | 62 | 49 | 39  | 18       | 8    | 0    | 42       |
| Quiet          |      | 34  | 39      | 43  | 44  | 46  | 43  | 40  | 38  | 38 | 37 | 36  | 41       | 45       | 50  | 54  | 62  | 60  | 58       | 58 | 49 | 46  | 38       | 30   | 26   | 42       |
| Quiet<br>Dist. |      | -14 | 39<br>4 | -6  | -12 | -11 | -8  | 40  | 21  | 33 | 54 | 72  | 41<br>77 | 45<br>82 | 94  | 120 | 117 | 106 | 58<br>80 | 63 | 49 | 32  | 38<br>12 | -25  | -40  | 44<br>37 |
| Dist.          |      | -14 | 4       | -6  | -12 | -11 | -8  | 3   | 21  | 33 | 94 | 72  | - //     | 62       | 94  | 120 | 117 | 106 | 80       | 03 | 42 | 32  | 12       | -25  | -40  | 37       |

Nurmijärvi Finland

| July 2003 North | component X ir | nT (X = | 14900 nT + | tabular values) |
|-----------------|----------------|---------|------------|-----------------|

| Day   | Char | 1    | 2    | 3   | 4    | 5    | 6    | 7   | 8   | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19 | 20  | 21  | 22  | 23   | 24   | Mean |
|-------|------|------|------|-----|------|------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|------|------|
| 1     |      | 9    | 3    | -2  | -3   | -8   | -5   | -6  | -15 | -24  | -38 | -35 | -21 | 6   | 9   | 14  | 20  | 12  | 19  | 22 | 17  | 16  | 8   | 3    | 4    | 0    |
| 2     |      | -1   | 3    | 6   | 7    | -1   | -12  | -20 | -27 | -46  | -46 | -18 | -9  | -20 | -25 | -2  | 13  | 13  | 41  | 28 | 23  | 4   | 2   | 2    | -2   | -4   |
| 3     |      | -5   | -10  | -11 | -8   | -1   | 6    | -2  | -14 | -23  | -32 | -21 | -8  | -3  | 32  | 19  | 23  | 30  | 22  | 65 | 30  | 33  | 24  | 18   | -8   | 6    |
| 4     |      | 6    | 8    | 14  | 10   | -12  | -24  | -13 | -20 | -33  | -38 | -24 | -28 | 14  | 22  | 35  | 35  | 54  | 33  | 26 | 24  | 14  | 8   | 9    | -15  | 4    |
| 5     |      | -4   | -4   | -23 | -19  |      | -30  | -28 | -29 | -35  | -45 | -40 | -27 | 16  | -21 | 27  | 56  | 52  | 56  | 35 | 20  | 13  | 5   | -9   | -2   | (-2) |
| 6     |      | -2   | 6    | 10  | 7    | -3   | -14  | -13 | -27 | -35  | -40 | -42 | -28 | -12 | 13  | 45  | -2  | 22  | 4   | 14 | 13  | 4   | 0   | 2    | 5    | -3   |
| 7     |      | 2    | 10   | -10 | 6    | 2    | -12  | -40 | -55 | -38  | -37 | -17 | 8   | 32  | -16 | 12  | 22  | 10  | 8   | 15 | 16  | 16  | 1   | 1    | -1   | -3   |
| 8     | Q    | 0    | 0    | 0   | -2   | -7   | -11  | -15 | -19 | -28  | -31 | -23 | -8  | -4  | 15  | -1  | 4   | 5   | -2  | 1  | 3   | 4   | 5   | 4    | 2    | -5   |
| 9     | Q    | 1    | 1    | 2   | 1    | -11  | -13  | -7  | -11 | -16  | -19 | -21 | -24 | -14 | 11  | 16  | 17  | 13  | 15  | 20 | 26  | 23  | 19  | 16   | 13   | 3    |
| 10    | Q    | 16   | 19   | 25  | 19   | 12   | -1   | -7  | -13 | -21  | -28 | -13 | -16 |     | -3  | 14  | 17  | 20  | 29  | 35 | 34  | 38  | 27  | 18   | 15   | (10) |
| 11    | D    | 13   | 1    | 4   | -8   | 1    | -23  | -29 | -38 | -56  | -83 | -63 | -37 | -17 | 4   | 65  | 60  | 118 | 80  | 45 | 21  | -60 | -29 | -40  | -124 | -8   |
| 12    | D    | -116 | -107 | -83 | -211 | -190 | -196 | -77 | -89 | -78  | -84 | -63 | -40 | -9  | -14 | 50  | 28  | 15  | 19  | 14 | 4   | -11 | -13 | -20  | -42  | -55  |
| 13    |      | -15  | -17  | -9  | -11  | -19  | -20  | -35 | -58 | -57  | -53 | -34 | -15 | -29 | -14 | -4  | 27  | 35  | 25  | 25 | 7   | 2   | -11 | -12  | -8   | -13  |
| 14    |      | -9   | -4   | 0   | -7   | -17  | -23  | -37 | -44 | -51  | -49 | -48 | -37 | -20 | -15 | -4  | 9   | 36  | 23  | 22 | 12  | 2   | 2   | 10   | -1   | -10  |
| 15    |      | -61  | -24  | -35 | -58  | -35  | -38  | -18 | -29 | -38  | -30 | -31 | -45 | -29 | -15 | -2  | 1   | 1   | 8   | 18 | 23  | 41  | 16  | -32  | -32  | -18  |
| 16    | D    | -57  | -29  | -14 | -10  | -30  | -56  | -51 | -68 | -101 | -70 | -30 | 83  | 198 | 138 | 59  | 16  | -2  | 2   | -4 | -14 | 2   | -60 | -21  | -35  | -6   |
| 17    |      | -18  | -36  | -47 | -30  | -24  | -33  | -43 | -53 | -55  | -50 | -30 | -35 | -3  | 39  | 22  | -1  | -1  | 2   | 38 | 26  | 5   | -5  | -1   | -10  | -14  |
| 18    |      | -13  | -6   | -34 | -42  | -11  | -12  | -22 | -34 | -37  | -37 | -37 | -35 | -29 | -17 | -5  | -3  | 11  | 36  | 20 | 20  | 12  | 7   | 1    | -31  | -13  |
| 19    |      | -53  | -42  | -19 | -19  | -6   | -1   | -7  | -22 | -43  | -57 | -38 | -25 | -4  | -29 | 5   | 6   | 2   | 45  | 24 | 16  | 14  | -18 | -106 | -115 | -20  |
| 20    |      | -14  | -18  | -52 | -12  | -8   | -31  | -44 | -44 | -40  | -40 | -39 | -38 | -31 | 5   | -5  | 37  | 10  | 12  | 17 | 14  | 14  | 24  | 9    | -27  | -13  |
| 21    | Q    | -28  | -33  | -7  | 1    | -2   | -9   | -15 | -26 | -37  | -35 | -37 | -27 | -9  | -13 | -9  | -3  | 4   | 10  | 5  | 11  | 6   | -4  | -6   | -2   | -11  |
| 22    | Q    | -1   | -6   | 5   | 3    | -9   | -15  | -17 | -24 | -38  | -43 | -31 | -26 | -20 | -14 | 1   | 8   | 20  | 16  | 36 | 14  | 6   | 6   | 5    | 5    | -5   |
| 23    |      | 1    | -6   | -2  | -1   | -1   | -7   | -14 | -28 | -35  | -38 | -39 | -28 | -15 | -4  | 5   | 46  | 55  | 17  | 25 | 30  | 13  | -5  | -11  | -10  | -2   |
| 24    |      | 3    | 15   | 19  | 19   | 14   | 7    | 0   | -11 | -21  | -31 | -31 | -24 | -3  | 10  | 13  | 24  | 26  | 28  | 22 | 21  | 23  | 14  | -8   | 0    | 5    |
| 25    |      | 3    | 6    | 14  | 11   | 4    | -7   | -32 | -35 | -18  | -17 | -17 | -5  | -37 | -25 | -6  | 4   | 7   | 15  | 22 | 18  | 15  | 14  | 12   | 12   | -2   |
| 26    |      | 6    | 5    | 10  | 6    | -11  | -20  | -7  | -10 | -27  | -20 | -3  | 7   | -5  | 0   | 68  | -2  | 44  | 102 | 76 | 62  | -6  | -54 | 4    | -57  | 7    |
| 27    |      | -63  | -52  | -25 | -2   | -2   | -11  | -62 | -89 | -59  | -58 | -57 | -24 | -19 | 38  | 18  | 8   | 26  | 18  | 11 | 12  | 2   | 6   | -4   | -8   | -17  |
| 28    |      | -9   | -9   | 5   | 6    | 3    | -2   | -11 | -23 | -35  | -35 | -32 | -44 | -22 | -9  | 81  | 23  | 24  | 19  | 27 | 9   | 7   | 23  | 5    | 4    | 0    |
| 29    | D    | 6    | 5    | -16 | -37  | -52  | -13  | -17 |     |      | -45 | -59 | -28 |     | -8  | 77  | 105 | 53  | 48  | 11 | -3  | 3   | -9  | -76  | -66  | (-6) |
| 30    |      | -14  | -6   | -12 | -30  | -16  | -22  | -41 | -64 | -66  | -75 | -59 | -45 | -4  | 8   | 28  | 13  | 43  | 29  | 28 | 26  | 2   | -12 | -17  | -37  | -14  |
| 31    | D    | -26  | -10  | 2   | -2   | -35  | -47  | -46 | -52 | -41  | -86 | -84 | -56 | -7  | 38  | -15 | 50  | 32  | 4   | 10 | 4   | 13  | -13 | -11  | -36  | -17  |
| All   |      | -14  | -11  | -9  | -13  | -16  | -22  | -25 | -36 | -41  | -45 | -36 | -22 | -3  | 5   | 20  | 21  | 25  | 25  | 24 | 17  | 9   | -1  | -8   | -20  | -7   |
| Quiet |      | -2   | -4   | 5   | 4    | -4   | -10  | -12 | -18 | -28  | -31 | -25 | -20 | -12 | -1  | 4   | 8   | 12  | 13  | 19 | 18  | 15  | 11  | 8    | 7    | -2   |
| Dist. |      | -36  | -28  | -21 | -53  | -61  | -67  | -44 | -62 | -69  | -73 | -60 | -16 | 41  | 32  | 47  | 52  | 43  | 30  | 15 | 3   | -11 | -25 | -34  | -61  | -19  |

July 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1   | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16 | 17  | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Mean |
|-------|------|-----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|-----|----|----|----|----|----|----|----|------|
| 1     |      | 38  | 40  | 46 | 55 | 51 | 62 | 61 | 52 | 47 | 34 | 15 | 1   | -3  | 8   | 16  | 24 | 36  | 36 | 35 | 39 | 35 | 29 | 30 | 39 | 34   |
| 2     |      | 40  | 45  | 45 | 51 | 52 | 51 | 54 | 59 | 34 | 15 | 1  | -9  | -7  | 0   | 3   | 13 | 18  | 18 | 37 | 30 | 29 | 25 | 24 | 25 | 27   |
| 3     |      | 45  | 41  | 30 | 34 | 56 | 66 | 66 | 57 | 45 | 36 | 22 | 12  | 2   | -1  | 10  | 19 | 21  | 30 | 19 | 37 | 29 | 31 | 25 | 50 | 33   |
| 4     |      | 63  | 47  | 57 | 57 | 54 | 38 | 28 | 42 | 36 | 25 | 11 | -3  | 0   | 10  | 12  | 27 | 40  | 41 | 29 | 28 | 33 | 27 | 15 | 24 | 31   |
| 5     |      | 27  | 38  | 31 | 37 |    | 48 | 47 | 53 | 46 | 27 | 10 | 3   | 0   | 8   | 15  | 19 | 43  | 41 | 29 | 26 | 33 | 24 | 29 | 36 | (29) |
| 6     |      | 37  | 40  | 41 | 46 | 56 | 64 | 67 | 61 | 51 | 41 | 21 | 10  | 3   | -7  | 1   | 14 | 24  | 26 | 25 | 24 | 30 | 33 | 27 | 38 | 32   |
| 7     |      | 34  | 27  | 14 | 46 | 56 | 48 | 52 | 43 | 26 | 23 | 21 | 4   | 1   | 14  | 26  | 40 | 35  | 34 | 34 | 33 | 35 | 27 | 27 | 31 | 30   |
| 8     | Q    | 36  | 44  | 51 | 57 | 63 | 60 | 52 | 44 | 33 | 23 | 12 | -2  | -6  | -4  | 10  | 17 | 23  | 30 | 29 | 32 | 33 | 32 | 34 | 35 | 31   |
| 9     | Q    | 36  | 36  | 40 | 44 | 45 | 52 | 57 | 62 | 57 | 43 | 27 | 13  | 11  | 20  | 29  | 33 | 32  | 31 | 32 | 24 | 26 | 25 | 23 | 27 | 34   |
| 10    | Q    | 30  | 40  | 49 | 52 | 60 | 63 | 66 | 64 | 50 | 38 | 26 | 11  |     | 2   | 3   | 6  | 11  | 12 | 16 | 19 | 18 | 26 | 24 | 27 | (31) |
| 11    | D    | 47  | 52  | 45 | 24 | 28 | 44 | 40 | 33 | 62 | 32 | 6  | -18 | -21 | -11 | -10 | 17 | 4   | 19 | 32 | 28 | 29 | 29 | 51 | 69 | 26   |
| 12    | D    | 83  | 137 | 90 | 42 | 36 | 64 | 84 | 99 | 73 | 60 | 45 | 38  | 31  | 36  | 30  | 22 | 29  | 25 | 40 | 42 | 24 | 30 | 65 | 40 | 53   |
| 13    |      | 60  | 59  | 65 | 64 | 72 | 78 | 79 | 59 | 29 | 13 | 2  | -3  | 5   | 14  | 20  | 25 | 58  | 37 | 28 | 33 | 35 | 36 | 44 | 43 | 40   |
| 14    |      | 49  | 52  | 65 | 76 | 78 | 64 | 62 | 63 | 49 | 34 | 26 | 11  | -3  | -4  | 3   | 15 | 25  | 22 | 33 | 22 | 27 | 27 | 29 | 20 | 35   |
| 15    |      | 18  | 58  | 64 | 48 | 53 | 54 | 75 | 66 | 50 | 38 | 25 | 30  | 14  | 15  | 19  | 28 | 30  | 32 | 30 | 32 | 59 | 46 | 55 | 42 | 41   |
| 16    | D    | 32  | 52  | 67 | 67 | 61 | 25 | 37 | 74 | 40 | 56 | 28 | 14  | 3   | -25 | -29 | -2 | -4  | 13 | 17 | 15 | 16 | 7  | 29 | 47 | 27   |
| 17    |      | 22  | 16  | 60 | 66 | 67 | 73 | 76 | 63 | 49 | 34 | 15 | 6   | 6   | 7   | 20  | 23 | 20  | 25 | 58 | 42 | 28 | 22 | 24 | 58 | 37   |
| 18    |      | 58  | 52  | 46 | 38 | 66 | 82 | 76 | 71 | 57 | 45 | 25 | 15  | 16  | 16  | 16  | 20 | 21  | 24 | 38 | 25 | 27 | 35 | 34 | 71 | 41   |
| 19    |      | 108 | 85  | 50 | 54 | 76 | 82 | 79 | 78 | 63 | 42 | 23 | 4   | -10 | -7  | -12 | 18 | 15  | 8  | 27 | 25 | 36 | 46 | 34 | 59 | 41   |
| 20    |      | 49  | 55  | 51 | 45 | 61 | 70 | 61 | 53 | 43 | 39 | 28 | 12  | -1  | -9  | 3   | 5  | 17  | 21 | 26 | 25 | 46 | 48 | 39 | 38 | 34   |
| 21    | Q    | 62  | 39  | 48 | 52 | 63 | 76 | 74 | 72 | 61 | 48 | 28 | 16  | 9   | 19  | 25  | 26 | 31  | 34 | 36 | 34 | 36 | 33 | 37 | 38 | 42   |
| 22    | Q    | 45  | 53  | 59 | 59 | 61 | 64 | 62 | 62 | 55 | 42 | 25 | 5   | -5  | -9  | 5   | 17 | 25  | 27 | 45 | 30 | 31 | 31 | 34 | 36 | 36   |
| 23    |      | 35  | 42  | 47 | 59 | 59 | 68 | 66 | 68 | 54 | 32 | 14 | 3   | 2   | 5   | 11  | 20 | 38  | 44 | 35 | 42 | 31 | 44 | 59 | 68 | 40   |
| 24    |      | 42  | 44  | 50 | 54 | 55 | 62 | 64 | 56 | 44 | 30 | 16 | 3   | -5  | 0   | 11  | 17 | 21  | 23 | 31 | 28 | 24 | 41 | 52 | 39 | 34   |
| 25    |      | 41  | 48  | 57 | 64 | 70 | 64 | 61 | 35 | 32 | 25 | 8  | -4  | 2   | -5  | 5   | 16 | 22  | 23 | 23 | 26 | 28 | 32 | 33 | 40 | 31   |
| 26    |      | 48  | 54  | 52 | 59 | 72 | 68 | 58 | 57 | 41 | 22 | 6  | -5  | -2  | 4   | -14 | -3 | -12 | 94 | 56 | 40 | 61 | 76 | 60 | 56 | 40   |
| 27    |      | 67  | 41  | 27 | 39 | 56 | 60 | 64 | 36 | 38 | 37 | 22 | 16  | 16  | 22  | 21  | 28 | 42  | 40 | 41 | 40 | 34 | 38 | 38 | 35 | 37   |
| 28    |      | 30  | 35  | 48 | 57 | 64 | 66 | 62 | 56 | 43 | 33 | 28 | 10  | -8  | -1  | 1   | 43 | 34  | 49 | 48 | 31 | 33 | 44 | 27 | 40 | 36   |
| 29    | D    | 40  | 41  | 32 | 24 | 28 | 34 | 54 |    |    | 43 | 25 | 19  |     | 9   | 28  | 53 | 38  | 34 | 39 | 64 | 51 | 33 | 90 | 96 | (42) |
| 30    |      | 64  | 53  | 51 | 53 | 63 | 67 | 77 | 69 | 55 | 41 | 26 | 3   | 10  | 18  | 17  | 36 | 64  | 57 | 64 | 56 | 50 | 46 | 33 | 8  | 45   |
| 31    | D    | -4  | 26  | 53 | 56 | 50 | 49 | 44 | 50 | 37 | 48 | 23 | 11  | 10  | 20  | 32  | 45 | 53  | 43 | 37 | 26 | 2  | 39 | 55 | 17 | 34   |
| All   |      | 45  | 48  | 49 | 51 | 58 | 60 | 61 | 59 | 47 | 35 | 20 | 7   | 2   | 5   | 11  | 22 | 27  | 32 | 34 | 32 | 33 | 34 | 38 | 42 | 36   |
| Quiet |      | 42  | 42  | 49 | 53 | 58 | 63 | 62 | 61 | 51 | 39 | 24 | 9   | 2   | 6   | 14  | 20 | 24  | 27 | 32 | 28 | 29 | 29 | 30 | 32 | 34   |
| Dist. |      | 40  | 62  | 57 | 42 | 40 | 43 | 52 | 64 | 53 | 48 | 25 | 13  | 6   | 6   | 10  | 27 | 24  | 27 | 33 | 35 | 24 | 27 | 58 | 54 | 36   |

July 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1    | 2    | 3   | 4    | 5    | 6   | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22  | 23   | 24   | Mean |
|-------|------|------|------|-----|------|------|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|------|------|------|
|       |      | 45   | 43   | 42  | 42   | 36   | 41  | 44 | 44 | 45 | 46 | 48 | 50  | 53  | 61  | 67  | 67  | 64  | 58  | 57  | 55 | 52  | 47  | 40   | 38   | 49   |
|       |      | 37   | 45   | 41  | 41   | 42   | 40  | 34 | 30 | 29 | 27 | 33 | 47  | 55  | 50  | 54  | 54  | 50  | 54  | 64  | 61 | 57  | 51  | 48   | 30   | 45   |
|       |      | 13   | 9    | 17  | 31   | 37   | 39  | 42 | 44 | 40 | 37 | 39 | 43  | 48  | 61  | 65  | 74  | 79  | 77  | 61  | 38 | 58  | 50  | 37   | -1   | 43   |
| ŀ     |      | 6    | 17   | 15  | 29   | 32   | 32  | 32 | 35 | 38 | 41 | 61 | 65  | 92  | 94  | 88  | 92  | 84  | 76  | 62  | 56 | 45  | 36  | 16   | 6    | 48   |
| •     |      | -35  | -17  | -4  | 10   |      | 25  | 26 | 33 | 40 | 38 | 35 | 46  | 69  | 60  | 64  | 86  | 95  | 79  | 67  | 61 | 43  | 39  | 35   | 39   | (41) |
| ;     |      | 45   | 45   | 48  | 51   | 49   | 41  | 41 | 42 | 40 | 38 | 38 | 35  | 39  | 43  | 58  | 59  | 61  | 54  | 52  | 48 | 48  | 49  | 47   | 40   | 46   |
|       |      | 34   | 28   | 15  | 30   | 37   | 38  | 43 | 48 | 56 | 48 | 39 | 41  | 60  | 64  | 74  | 77  | 65  | 60  | 56  | 54 | 52  | 48  | 48   | 48   | 48   |
|       | Q    | 49   | 50   | 48  | 47   | 46   | 47  | 44 | 41 | 38 | 35 | 35 | 39  | 48  | 51  | 50  | 51  | 50  | 50  | 45  | 46 | 46  | 45  | 45   | 45   | 45   |
| )     | Q    | 45   | 46   | 45  | 45   | 45   | 41  | 38 | 35 | 31 | 29 | 32 | 40  | 46  | 48  | 51  | 56  | 57  | 53  | 52  | 49 | 48  | 46  | 43   | 42   | 44   |
| 10    | Q    | 42   | 44   | 45  | 44   | 42   | 39  | 36 | 33 | 29 | 26 | 29 | 31  |     | 50  | 48  | 51  | 47  | 42  | 43  | 44 | 45  | 44  | 39   | 33   | (40) |
| .1    | D    | 10   | 6    | 6   | -16  | -23  | 1   | 9  | 17 | 32 | 54 | 75 | 71  | 68  | 94  | 166 | 195 | 166 | 130 | 120 | 96 | -22 | 15  | 10   | -86  | 50   |
| 2     | D    | -174 | -166 | -53 | -122 | -141 | -95 | 21 | 39 | 58 | 57 | 59 | 64  | 82  | 85  | 94  | 72  | 66  | 65  | 73  | 67 | 61  | 49  | 40   | 27   | 14   |
| .3    |      | 19   | 22   | 43  | 50   | 43   | 52  | 53 | 54 | 53 | 47 | 46 | 56  | 62  | 67  | 66  | 76  | 94  | 70  | 66  | 61 | 54  | 41  | 28   | 25   | 52   |
| 14    |      | 23   | 27   | 31  | 38   | 43   | 41  | 43 | 45 | 43 | 38 | 35 | 39  | 45  | 54  | 55  | 56  | 66  | 66  | 70  | 60 | 58  | 53  | 51   | 31   | 46   |
| .5    |      | -67  | -20  | -1  | -21  | -11  | 7   | 34 | 46 | 45 | 41 | 57 | 71  | 61  | 63  | 60  | 60  | 56  | 55  | 56  | 60 | 30  | -33 | -41  | -56  | 23   |
| .6    | D    | -89  | -38  | 9   | 31   | 28   | 7   | 12 | 27 | 38 | 73 | 93 | 216 | 257 | 181 | 141 | 143 | 116 | 117 | 85  | 62 | 35  | -77 | -37  | -33  | 58   |
| 17    |      | -25  | -22  | 10  | 50   | 63   | 59  | 58 | 52 | 52 | 57 | 59 | 58  | 61  | 84  | 97  | 83  | 65  | 61  | 64  | 46 | 50  | 36  | -11  | 11   | 47   |
| 8     |      | 31   | 45   | 30  | 13   | 36   | 50  | 51 | 52 | 51 | 47 | 42 | 40  | 40  | 45  | 50  | 53  | 54  | 60  | 69  | 60 | 53  | 52  | 39   | -22  | 43   |
| 19    |      | -75  | -46  | 13  | 32   | 41   | 50  | 49 | 45 | 47 | 42 | 36 | 42  | 57  | 66  | 75  | 85  | 64  | 61  | 68  | 60 | 52  | 1   | -122 | -135 | 25   |
| 20    |      | -16  | 13   | 2   | 35   | 47   | 51  | 47 | 45 | 41 | 40 | 46 | 49  | 50  | 61  | 68  | 74  | 66  | 57  | 54  | 50 | 48  | 35  | -17  | -27  | 38   |
| 21    | Q    | -44  | -25  | 6   | 29   | 37   | 48  | 51 | 51 | 49 | 41 | 38 | 35  | 41  | 45  | 50  | 52  | 51  | 53  | 56  | 55 | 53  | 50  | 50   | 51   | 38   |
| 22    | Q    | 50   | 46   | 41  | 46   | 47   | 49  | 50 | 50 | 45 | 33 | 29 | 36  | 45  | 50  | 52  | 54  | 59  | 58  | 59  | 48 | 49  | 49  | 48   | 48   | 48   |
| 23    |      | 46   | 44   | 43  | 43   | 42   | 45  | 39 | 34 | 36 | 35 | 32 | 30  | 37  | 45  | 49  | 65  | 87  | 81  | 69  | 57 | 44  | 28  | 14   | 24   | 45   |
| 24    |      | 44   | 50   | 53  | 53   | 48   | 45  | 42 | 39 | 36 | 33 | 28 | 30  | 40  | 47  | 53  | 56  | 55  | 53  | 52  | 48 | 45  | 39  | 10   | -16  | 41   |
| 25    |      | 34   | 43   | 49  | 49   | 45   | 41  | 40 | 37 | 37 | 35 | 32 | 48  | 49  | 48  | 49  | 46  | 47  | 48  | 46  | 46 | 45  | 45  | 44   | 40   | 43   |
| 26    |      | 40   | 44   | 49  | 49   | 43   | 36  | 35 | 32 | 29 | 27 | 21 | 25  | 32  | 43  | 63  | 67  | 77  | 146 | 80  | 88 | 60  | -48 | 18   | -42  | 42   |
| 27    |      | -53  | -53  | -69 | -11  | 28   | 40  | 38 | 47 | 63 | 65 | 71 | 84  | 85  | 106 | 109 | 88  | 81  | 67  | 66  | 54 | 36  | 38  | 36   | 39   | 4    |
| 28    |      | 41   | 43   | 52  | 51   | 51   | 49  | 47 | 48 | 48 | 47 | 45 | 46  | 60  | 65  | 109 | 128 | 112 | 103 | 80  | 68 | 57  | 35  | 15   | 31   | 60   |
| 29    | D    | 41   | 48   | 36  | 8    | 8    | 15  | 28 |    |    | 45 | 45 | 58  |     | 78  | 102 | 116 | 122 | 102 | 31  | 39 | 63  | 38  | -96  | -75  | (41) |
| 30    |      | 4    | 36   | 42  | 44   | 54   | 46  | 45 | 50 | 62 | 62 | 65 | 63  | 91  | 91  | 97  | 96  | 108 | 95  | 86  | 38 | 36  | 24  | 11   | -2   | 56   |
| 31    | D    | -40  | -1   | 29  | 41   | 37   | 40  | 53 | 58 | 57 | 65 | 93 | 87  | 100 | 124 | 118 | 119 | 113 | 92  | 79  | 57 | 0   | -11 | 11   | -21  | 54   |
| All   |      | 3    | 13   | 24  | 28   | 31   | 34  | 39 | 42 | 44 | 43 | 46 | 54  | 65  | 69  | 76  | 79  | 77  | 72  | 64  | 56 | 45  | 29  | 16   | 4    | 44   |
| Quiet |      | 28   | 32   | 37  | 42   | 43   | 45  | 44 | 42 | 38 | 33 | 33 | 36  | 45  | 49  | 50  | 53  | 53  | 51  | 51  | 48 | 48  | 47  | 45   | 44   | 43   |
| Dist. |      | -50  | -30  | 5   | -11  | -18  | -6  | 25 | 35 | 46 | 59 | 73 | 99  | 127 | 112 | 124 | 129 | 117 | 101 | 78  | 64 | 27  | 3   | -14  | -37  | 4    |

| Day   | Char | 1    | 2    | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20   | 21   | 22   | 23   | 24   | Mean  |
|-------|------|------|------|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-------|
| 1     | D    | -65  | -68  | -42 | -60 | -33 | -51  |      | -48  | -51  | -53 | -41 | -8  | -14 |     |     | 17  | 27  | 19  | 5   | 10   | 6    | 3    | -25  | -84  | (-26) |
| 2     |      | -11  | -11  | -12 | -5  | -6  | -9   | -27  | -58  | -50  | -40 | -32 | -31 | -11 | 8   | 11  | 54  | 44  | 14  | 3   | 11   | 13   | -2   | -9   | -19  | -7    |
| 3     |      | -8   | -11  | -13 | -22 | -35 | -27  | -32  | -35  | -37  | -45 | -36 | -36 | -31 | -17 | -5  | 14  | 24  | 25  | 27  | 15   | 1    | -10  | 0    | -7   | -13   |
| 4     | Q    | -2   | 0    | 0   | 1   | -6  | -15  | -30  | -45  | -39  | -47 | -35 | -29 | -11 | -2  | 6   | 22  | 18  | 28  | 24  | 18   | 15   | 9    | 19   | 15   | -4    |
| 5     | Q    | 18   | 11   | 8   | 8   | 5   | 2    | -2   | -12  | -23  | -34 | -32 | -26 | -17 | -6  | 5   | 15  | 19  | 26  | 29  | 27   | 24   | 27   | 31   | 1    | 4     |
| 6     |      | -20  | -9   | -86 | -33 | -27 | -38  | -106 | -96  | -57  | -48 | -49 | -33 | -27 | 3   | 7   | -7  | -14 | -7  | 0   | 3    | 6    | 4    | 1    | -2   | -27   |
| 7     |      | -3   | -6   | -3  | -1  | -13 | -19  | -26  | -26  | -25  | -20 | -17 | -17 | -8  | 17  | 44  | 10  | 41  | 43  | 25  | -31  | -40  | -77  | 4    | 1    | -6    |
| 8     |      | -8   | -50  | -90 | -48 | -37 | -79  | -5   | -42  | -36  | -63 | -50 | -37 | -21 | -6  | 1   | 23  | 35  | 31  | 37  | 8    | 6    | 8    | -4   | -22  | -19   |
| 9     |      | -10  | 3    | 12  | 8   | -1  | -16  | -28  | -38  | -38  | -37 | -15 | -15 | -21 | -7  | 8   | 8   | 21  | 12  | 24  | 16   | 8    | 12   | -8   | -16  | -5    |
| 10    |      | 4    | 4    | -13 | 1   | -3  | -15  | -27  | -33  | -37  | -35 | -38 | -15 | -4  | -3  | 6   | 5   | 7   | 11  | 25  | 16   | 6    | 4    | 1    | 0    | -6    |
| 11    |      | -3   | 3    | 6   | -2  | -4  | -9   | -20  | -29  | -31  | -39 | -31 | -20 | -3  | 0   | 9   | -4  | 7   | 25  | 15  | 24   | 11   | -2   | -15  | -5   | -5    |
| 12    |      | -25  | -3   | 8   | -25 | -5  | -7   | -21  | -43  | -38  | -39 | -38 | -10 | -23 | 12  | 38  | 19  | 19  | 44  | 10  | 7    | 11   | 3    | 0    | -6   | -5    |
| 13    |      | -1   | 2    | -11 | -44 | -9  | -8   | -30  | -42  | -47  | -40 | -28 | -11 | 7   | -11 | 4   | 10  | 12  | 15  | 14  | 12   | 14   | 6    | 4    | 11   | -7    |
| 14    |      | -1   | -12  | -7  | 1   | 0   | -20  | -47  | -40  | -37  | -36 | -27 | -24 | -4  | 4   | 9   | 16  | 21  | 16  | 39  | 24   | -3   | 3    | -9   | -6   | -6    |
| 15    |      | -4   | -6   | 1   | 0   | -8  | -19  | -20  | -23  | -35  | -30 | -17 | -11 | -2  | 15  | 31  | 25  | -2  | 14  | 12  | 8    | 10   | 11   | 2    | 8    | -2    |
| 16    | Q    | 7    | 5    | 5   | -6  | -3  | -4   | -14  | -28  | -40  | -41 | -37 | -13 | -4  | -6  | 23  | 21  | 10  | 12  | 17  | 12   | 15   | 15   | 10   | 9    | -1    |
| 17    |      | 8    | 11   | 11  | 8   | 1   | -4   | -7   | -10  | -15  | -19 | -20 | -15 | -5  | 3   | 24  | 25  | 57  | 38  | 66  | 53   | 21   | -1   | -28  | -145 | 2     |
| 18    | D    | -59  | -11  | -15 | -14 | -84 | -155 | -147 | -227 | -135 | -6  | 16  | 166 | 178 | 206 | 272 | 269 | 30  | -10 | -91 | -112 | -170 | -212 | -259 | -161 | -31   |
| 19    |      | -168 | -100 | -51 | -60 | -41 | -44  | -28  | -39  | -48  | -52 | -44 | -36 | -33 | -31 | -22 | -19 | -19 | -2  | -7  | -3   | 9    | -1   | -11  | -11  | -36   |
| 20    |      | -17  | -15  | -14 | -18 | -32 | -35  | -30  | -26  | -34  | -36 | -40 | -24 | -28 | -8  | 10  | 36  | 27  | 22  | 1   | 6    | 3    | 4    | -9   | 12   | -10   |
| 21    | D    | -29  | -4   | -4  | -30 | -28 | -50  | -66  | -72  | -46  | -32 | -66 | -35 | 8   | 9   | -2  | 57  | 105 | 54  | 9   | -42  | -36  | -61  | -50  | -119 | -22   |
| 22    | D    | -51  | -77  | -28 | -9  | -26 | -61  | -40  | -47  | -73  | -68 | -77 | -43 | 8   | 27  | 56  | 10  | 25  | 46  | -2  | 0    | 8    | 4    | -26  | -11  | -19   |
| 23    | D    | -22  | -26  | -38 | -69 | -15 | -25  | -46  | -84  | -68  | -43 | -36 | -15 | -15 | 18  | -11 | 32  | 20  | 16  | -5  | -1   | -10  | -8   | -15  | -7   | -20   |
| 24    |      | -13  | -13  | -10 | -13 | -18 | -22  | -36  | -65  | -80  | -58 | -47 | -17 | -23 | -22 | -8  | -9  | -2  | 1   | 7   | 21   | -15  | -23  | -15  | -7   | -20   |
| 25    |      | -15  | -15  | -12 | -12 | -41 | -35  | -52  | -62  | -67  | -51 | -43 | -43 | -30 | -19 | 24  | -7  | 12  | 13  | 2   | 1    | 3    | -4   | -4   | -5   | -19   |
| 26    |      | -5   | -15  | -10 | -8  | -9  | -15  | -26  | -30  | -34  | -33 | -26 | -20 | -9  | -14 | -2  | 11  | -1  | -3  | -6  | 0    | -6   | -15  | -9   | -6   | -12   |
| 27    | Q    | -8   | -12  | -10 | -8  | -6  | -14  | -26  | -39  | -49  | -47 | -35 | -25 | -7  | -6  | 8   | 6   | 14  | -6  | -1  | 6    | -5   | -3   | 2    | 4    | -11   |
| 28    |      | -16  | -37  | -8  | -6  | -20 | -20  | -30  | -25  | -36  | -57 | -28 | 2   | -14 | -8  | 18  | 1   | 2   | 19  | 24  | 5    | 6    | 5    | 6    | 9    | -9    |
| 29    |      | 5    | 3    | 6   | 6   | 0   | -10  | -19  | -27  | -33  | -32 | -33 | -12 | -9  | 6   | 24  | 10  | 18  | 18  | 13  | -10  | 8    | 2    | 7    | 5    | -2    |
| 30    |      | -6   | -12  | -26 | -44 | -10 | -8   | -22  | -37  | -39  | -51 | -34 | -40 | -19 | -12 | 4   | 6   | 1   | 11  | 9   | 10   | 4    | 3    | 2    | 0    | -13   |
| 31    | Q    | 1    | 2    | 1   | -1  | -7  | -7   | -11  | -22  | -33  | -43 | -37 | -27 | -13 | -4  | 7   | 13  | 3   | 6   | 15  | 2    | 2    | 3    | 2    | 5    | -6    |
| All   |      | -17  | -15  | -14 | -16 | -17 | -27  | -34  | -47  | -45  | -41 | -35 | -17 | -7  | 5   | 20  | 22  | 19  | 18  | 11  | 4    | -2   | -10  | -13  | -18  | -12   |
| Quiet |      | 4    | 1    | 1   | -1  | -3  | -8   | -17  | -29  | -37  | -42 | -35 | -24 | -10 | -5  | 10  | 15  | 13  | 13  | 17  | 13   | 10   | 10   | 13   | 7    | -4    |
| Dist. |      | -45  | -37  | -25 | -36 | -37 | -68  | -75  | -96  | -75  | -40 | -41 | 13  | 33  | 65  | 79  | 77  | 41  | 25  | -17 | -29  | -40  | -55  | -75  | -76  | -22   |

August 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1   | 2   | 3  | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|----|-----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|------|
| 1     | D    | 0   | 65  | 43 | 41  | 40 | 45 |    | 37 | 43 | 37 | 25 | 24  | 24  |    |    | 44 | 47 | 46 | 44 | 43 | 32  | 44  | 52  | 13  | (38) |
| 2     |      | 51  | 31  | 54 | 52  | 49 | 66 | 61 | 57 | 48 | 37 | 20 | 8   | 6   | 14 | 17 | 42 | 53 | 40 | 35 | 27 | 48  | 48  | 46  | 23  | 39   |
| 3     |      | 23  | 26  | 60 | 58  | 68 | 67 | 71 | 61 | 51 | 37 | 24 | 10  | 13  | 22 | 28 | 32 | 38 | 38 | 47 | 38 | 51  | 37  | 39  | 35  | 41   |
| 4     | Q    | 40  | 49  | 52 | 60  | 60 | 65 | 64 | 55 | 45 | 31 | 18 | 7   | -1  | 6  | 18 | 25 | 29 | 33 | 32 | 40 | 45  | 40  | 32  | 38  | 37   |
| 5     | Q    | 49  | 50  | 55 | 65  | 71 | 75 | 78 | 72 | 61 | 45 | 33 | 15  | 3   | 3  | 9  | 16 | 20 | 19 | 23 | 21 | 21  | 23  | 27  | 61  | 38   |
| 6     |      | 97  | 107 | 83 | 100 | 73 | 62 | 64 | 41 | 41 | 27 | 17 | 3   | 5   | -2 | 19 | 23 | 32 | 30 | 27 | 32 | 30  | 28  | 31  | 43  | 42   |
| 7     |      | 46  | 53  | 60 | 66  | 75 | 69 | 66 | 53 | 41 | 30 | 12 | -1  | -5  | -2 | 20 | 27 | 14 | 35 | 37 | 24 | 45  | 75  | 46  | 47  | 39   |
| 8     |      | 46  | 44  | 60 | 46  | 85 | 40 | 54 | 57 | 49 | 33 | 26 | 18  | 7   | 10 | 18 | 25 | 19 | 28 | 60 | 28 | 41  | 44  | 39  | 23  | 38   |
| 9     |      | 27  | 43  | 59 | 61  | 61 | 68 | 62 | 50 | 43 | 29 | 14 | 14  | 13  | 9  | 30 | 33 | 37 | 38 | 53 | 33 | 36  | 24  | 44  | 48  | 39   |
| 10    |      | 49  | 67  | 84 | 81  | 81 | 77 | 73 | 63 | 48 | 32 | 21 | 10  | 0   | 11 | 26 | 33 | 35 | 34 | 46 | 44 | 34  | 29  | 29  | 29  | 43   |
| 11    |      | 29  | 46  | 57 | 64  | 65 | 66 | 63 | 51 | 41 | 27 | 9  | -4  | -6  | 1  | 18 | 29 | 35 | 44 | 32 | 40 | 50  | 48  | 32  | 31  | 36   |
| 12    |      | 43  | 35  | 69 | 68  | 61 | 67 | 67 | 64 | 41 | 22 | 9  | -1  | -2  | 6  | 7  | 32 | 27 | 50 | 27 | 28 | 30  | 30  | 39  | 23  | 35   |
| 13    |      | 30  | 44  | 55 | 54  | 58 | 63 | 66 | 60 | 42 | 28 | 15 | 6   | 0   | 10 | 16 | 21 | 23 | 26 | 27 | 33 | 28  | 7   | 24  | 43  | 32   |
| 14    |      | 46  | 34  | 34 | 64  | 70 | 76 | 75 | 43 | 33 | 27 | 14 | 8   | 6   | 14 | 24 | 30 | 36 | 42 | 51 | 51 | 41  | 39  | 37  | 37  | 39   |
| 15    |      | 45  | 44  | 50 | 67  | 74 | 73 | 66 | 58 | 37 | 16 | 1  | -5  | -7  | -4 | 3  | 11 | 27 | 25 | 48 | 38 | 28  | 24  | 7   | 38  | 32   |
| 16    | Q    | 48  | 50  | 50 | 59  | 55 | 61 | 66 | 57 | 41 | 24 | 10 | -12 | -12 | -4 | 2  | 18 | 23 | 22 | 21 | 25 | 20  | 33  | 36  | 38  | 30   |
| 17    |      | 37  | 45  | 52 | 58  | 63 | 66 | 65 | 58 | 46 | 30 | 13 | 1   | -2  | 2  | -3 | 2  | 1  | -4 | 3  | 29 | 36  | 42  | 119 | 131 | 37   |
| 18    | D    | 104 | 48  | 77 | 52  | 14 | -5 | 50 | 21 | 31 | 47 | 34 | 59  | 30  | -5 | -7 | 21 | 43 | 53 | 43 | 71 | 93  | 101 | 115 | 95  | 49   |
| 19    |      | 119 | 97  | 86 | 87  | 74 | 75 | 81 | 66 | 55 | 37 | 18 | 8   | 5   | 19 | 33 | 42 | 44 | 34 | 31 | 31 | 33  | 35  | 40  | 44  | 50   |
| 20    |      | 49  | 55  | 59 | 57  | 49 | 34 | 49 | 48 | 35 | 28 | 18 | 7   | 7   | 8  | 16 | 23 | 56 | 51 | 37 | 27 | 40  | 73  | 42  | 59  | 39   |
| 21    | D    | 80  | 56  | 42 | 34  | 33 | 4  | 35 | 36 | 40 | 41 | 27 | 17  | 8   | 0  | 21 | 18 | 44 | 89 | 86 | 84 | 154 | 100 | 70  | 64  | 49   |
| 22    | D    | 67  | 93  | 90 | 78  | 64 | 47 | 57 | 61 | 58 | 49 | 36 | 21  | 15  | 20 | 43 | 42 | 67 | 60 | 45 | 31 | 78  | 16  | 39  | 53  | 51   |
| 23    | D    | 45  | 39  | 41 | 25  | 60 | 49 | 56 | 62 | 62 | 41 | 19 | 11  | 27  | 27 | 34 | 57 | 72 | 52 | 39 | 41 | 35  | 28  | 24  | 25  | 40   |
| 24    |      | 32  | 33  | 53 | 56  | 50 | 55 | 61 | 55 | 37 | 26 | 14 | 16  | 24  | 21 | 27 | 37 | 31 | 34 | 49 | 83 | 62  | 65  | 53  | 45  | 42   |
| 25    |      | 36  | 18  | 36 | 33  | 8  | 8  | 37 | 38 | 40 | 46 | 31 | 24  | 17  | 20 | 22 | 44 | 52 | 59 | 47 | 50 | 50  | 46  | 38  | 37  | 35   |
| 26    |      | 37  | 52  | 53 | 56  | 65 | 66 | 67 | 61 | 47 | 33 | 17 | 15  | 14  | 12 | 23 | 40 | 45 | 72 | 59 | 47 | 51  | 63  | 30  | 28  | 44   |
| 27    | Q    | 38  | 42  | 41 | 51  | 56 | 55 | 55 | 52 | 38 | 22 | 10 | 5   | 5   | 17 | 29 | 42 | 50 | 47 | 57 | 60 | 53  | 42  | 33  | 45  | 39   |
| 28    |      | 69  | 65  | 92 | 78  | 68 | 57 | 50 | 49 | 34 | 19 | 3  | -3  | 2   | 16 | 20 | 29 | 30 | 40 | 61 | 45 | 30  | 29  | 42  | 49  | 41   |
| 29    |      | 44  | 47  | 50 | 53  | 53 | 50 | 47 | 44 | 31 | 11 | -4 | -4  | -3  | 7  | 25 | 19 | 23 | 26 | 49 | 73 | 79  | 38  | 33  | 37  | 34   |
| 30    |      | 44  | 43  | 42 | 43  | 55 | 64 | 68 | 60 | 48 | 32 | 13 | 10  | 5   | 12 | 17 | 32 | 50 | 45 | 37 | 30 | 32  | 32  | 40  | 38  | 37   |
| 31    | Q    | 44  | 47  | 47 | 50  | 57 | 60 | 58 | 54 | 44 | 26 | 13 | 2   | -1  | 12 | 36 | 38 | 36 | 31 | 35 | 44 | 40  | 38  | 41  | 37  | 37   |
| All   |      | 49  | 50  | 58 | 59  | 58 | 56 | 61 | 53 | 43 | 31 | 17 | 9   | 6   | 9  | 20 | 30 | 37 | 40 | 41 | 42 | 47  | 43  | 43  | 44  | 39   |
| Quiet |      | 44  | 47  | 49 | 57  | 60 | 63 | 64 | 58 | 46 | 30 | 17 | 3   | -1  | 7  | 19 | 28 | 32 | 31 | 34 | 38 | 36  | 35  | 34  | 44  | 36   |
| Dist. |      | 59  | 60  | 59 | 46  | 42 | 28 | 50 | 44 | 47 | 43 | 28 | 27  | 21  | 11 | 23 | 36 | 54 | 60 | 51 | 54 | 78  | 58  | 60  | 50  | 45   |

August 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1    | 2    | 3    | 4   | 5  | 6   | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22   | 23   | 24   | Mean |
|-------|------|------|------|------|-----|----|-----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 1     | D    | -122 | -110 | -60  | -7  | 17 | 23  |    | 43 | 45 | 52  | 52  | 84  | 100 |     |     | 96  | 97  | 90  | 69  | 67  | 50  | 25   | -3   | -64  | (26) |
| 2     |      | -35  | -53  | -9   | 23  | 33 | 43  | 43 | 45 | 51 | 50  | 48  | 50  | 68  | 85  | 86  | 101 | 92  | 70  | 64  | 59  | 33  | 24   | 23   | 18   | 42   |
| 3     |      | 25   | 20   | 39   | 42  | 44 | 49  | 49 | 52 | 53 | 52  | 55  | 60  | 71  | 81  | 73  | 66  | 67  | 70  | 70  | 42  | 32  | 6    | 36   | 29   | 49   |
| 4     | Q    | 35   | 46   | 52   | 55  | 52 | 51  | 49 | 47 | 45 | 45  | 44  | 40  | 45  | 52  | 56  | 63  | 62  | 68  | 67  | 58  | 43  | 50   | 51   | 47   | 51   |
| 5     | Q    | 49   | 53   | 54   | 55  | 51 | 48  | 46 | 46 | 40 | 31  | 25  | 26  | 35  | 45  | 47  | 49  | 47  | 47  | 48  | 47  | 46  | 38   | 15   | 4    | 41   |
| 6     |      | -18  | -107 | -143 | -49 | 10 | 42  | 34 | 48 | 62 | 58  | 63  | 73  | 70  | 66  | 68  | 55  | 54  | 48  | 45  | 49  | 49  | 49   | 48   | 48   | 30   |
| 7     |      | 53   | 53   | 54   | 57  | 53 | 50  | 44 | 42 | 36 | 35  | 40  | 44  | 49  | 60  | 93  | 71  | 66  | 88  | 61  | -91 | -77 | -132 | -16  | 23   | 31   |
| 8     |      | 38   | -40  | -46  | -16 | 21 | -20 | 19 | 35 | 49 | 48  | 54  | 53  | 59  | 70  | 75  | 86  | 80  | 87  | 66  | 52  | 53  | 49   | 48   | 37   | 40   |
| 9     |      | 30   | 46   | 52   | 53  | 50 | 47  | 44 | 41 | 43 | 45  | 49  | 52  | 56  | 65  | 72  | 60  | 61  | 57  | 57  | 50  | 44  | -4   | 29   | 17   | 47   |
| 10    |      | -19  | -9   | -20  | 29  | 44 | 45  | 45 | 41 | 39 | 42  | 45  | 39  | 43  | 46  | 57  | 58  | 56  | 52  | 52  | 44  | 44  | 47   | 46   | 44   | 38   |
| 11    |      | 41   | 48   | 50   | 47  | 46 | 43  | 43 | 43 | 39 | 38  | 41  | 41  | 46  | 50  | 56  | 54  | 57  | 61  | 58  | 50  | 34  | 27   | 9    | 1    | 43   |
| 12    |      | -11  | -17  | 16   | 6   | 21 | 25  | 31 | 39 | 50 | 51  | 59  | 67  | 74  | 92  | 93  | 91  | 78  | 71  | 60  | 60  | 14  | 22   | 33   | 29   | 44   |
| 13    |      | 36   | 46   | 44   | 36  | 43 | 47  | 49 | 49 | 41 | 37  | 35  | 41  | 47  | 55  | 61  | 64  | 60  | 58  | 56  | 52  | 50  | -6   | -15  | 30   | 42   |
| 14    |      | 22   | 29   | 22   | 43  | 50 | 44  | 45 | 44 | 41 | 36  | 34  | 42  | 49  | 57  | 59  | 58  | 62  | 66  | 59  | 39  | 38  | 46   | 38   | 34   | 44   |
| 15    |      | 36   | 43   | 46   | 48  | 49 | 45  | 42 | 44 | 43 | 43  | 41  | 40  | 43  | 51  | 58  | 66  | 63  | 55  | 59  | 52  | 50  | 37   | 3    | 18   | 45   |
| 16    | Q    | 34   | 44   | 44   | 43  | 48 | 47  | 42 | 43 | 43 | 41  | 39  | 48  | 59  | 61  | 65  | 71  | 67  | 60  | 56  | 54  | 41  | 41   | 44   | 46   | 49   |
| 17    |      | 46   | 48   | 50   | 51  | 51 | 49  | 46 | 42 | 38 | 34  | 31  | 29  | 37  | 47  | 47  | 45  | 53  | 65  | 94  | 125 | 71  | 53   | -13  | -99  | 43   |
| 18    | D    | -94  | -55  | -57  | 0   | -6 | -25 | 10 | 48 | 84 | 188 | 163 | 217 | 212 | 225 | 217 | 169 | 76  | 49  | 29  | 31  | -66 | -182 | -140 | -146 | 40   |
| 19    |      | -34  | -11  | 21   | 44  | 69 | 70  | 75 | 70 | 68 | 68  | 69  | 68  | 67  | 69  | 71  | 73  | 69  | 64  | 60  | 61  | 62  | 63   | 62   | 62   | 57   |
| 20    |      | 61   | 62   | 61   | 60  | 53 | 52  | 58 | 56 | 54 | 50  | 47  | 54  | 63  | 62  | 66  | 83  | 93  | 82  | 76  | 64  | 67  | 53   | 31   | -28  | 58   |
| 21    | D    | -26  | 26   | 49   | 33  | 21 | 7   | 24 | 50 | 63 | 62  | 67  | 72  | 100 | 144 | 117 | 136 | 213 | 135 | 112 | 37  | -61 | -81  | -13  | -201 | 45   |
| 22    | D    | -69  | -83  | 5    | 47  | 51 | 45  | 79 | 74 | 75 | 90  | 86  | 95  | 108 | 142 | 175 | 137 | 122 | 74  | 63  | 68  | 12  | -26  | 1    | 40   | 59   |
| 23    | D    | 44   | 46   | 31   | 12  | 42 | 41  | 45 | 54 | 75 | 85  | 69  | 86  | 106 | 113 | 103 | 117 | 89  | 74  | 74  | 54  | 37  | 36   | 4    | -3   | 60   |
| 24    |      | -3   | 22   | 42   | 47  | 50 | 54  | 55 | 60 | 67 | 61  | 58  | 81  | 93  | 83  | 84  | 76  | 63  | 60  | 70  | 51  | 32  | 30   | 43   | 54   | 56   |
| 25    |      | 51   | 6    | 11   | 35  | 34 | 33  | 48 | 66 | 67 | 60  | 59  | 67  | 73  | 75  | 92  | 94  | 90  | 76  | 65  | 61  | 52  | 51   | 53   | 33   | 56   |
| 26    |      | -3   | 21   | 50   | 59  | 63 | 60  | 58 | 57 | 49 | 43  | 45  | 62  | 72  | 71  | 80  | 90  | 90  | 91  | 71  | 64  | 55  | 47   | 35   | 27   | 57   |
| 27    | Q    | 43   | 52   | 57   | 58  | 58 | 58  | 56 | 54 | 53 | 53  | 56  | 60  | 70  | 77  | 86  | 85  | 87  | 81  | 78  | 59  | 54  | 56   | 45   | 5    | 60   |
| 28    |      | 6    | -7   | -1   | 24  | 30 | 47  | 55 | 55 | 44 | 44  | 41  | 53  | 59  | 60  | 79  | 84  | 78  | 72  | 62  | 55  | 57  | 56   | 45   | 42   | 48   |
| 29    |      | 50   | 55   | 57   | 56  | 55 | 54  | 54 | 54 | 50 | 48  | 54  | 67  | 67  | 84  | 98  | 101 | 106 | 94  | 79  | 51  | 18  | 38   | 52   | 56   | 62   |
| 30    |      | 47   | 35   | 34   | 12  | 33 | 41  | 48 | 46 | 49 | 50  | 54  | 53  | 68  | 73  | 78  | 81  | 83  | 73  | 66  | 59  | 55  | 44   | 48   | 51   | 53   |
| 31    | Q    | 52   | 55   | 56   | 57  | 55 | 57  | 56 | 56 | 52 | 51  | 52  | 53  | 57  | 64  | 84  | 78  | 69  | 59  | 58  | 58  | 54  | 54   | 54   | 52   | 58   |
| All   |      | 12   | 12   | 21   | 34  | 42 | 41  | 46 | 50 | 52 | 55  | 54  | 62  | 70  | 77  | 83  | 82  | 79  | 71  | 65  | 51  | 34  | 20   | 22   | 10   | 48   |
| Quiet |      | 42   | 50   | 53   | 53  | 53 | 52  | 50 | 49 | 47 | 44  | 43  | 45  | 53  | 60  | 67  | 69  | 67  | 63  | 61  | 55  | 48  | 48   | 42   | 31   | 52   |
| Dist. |      | -53  | -35  | -6   | 17  | 25 | 18  | 39 | 54 | 68 | 95  | 87  | 111 | 125 | 156 | 153 | 131 | 119 | 84  | 69  | 51  | -6  | -46  | -30  | -75  | 48   |

| Day   | Char | 1    | 2   | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20   | 21  | 22   | 23      | 24  | Mean |
|-------|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|---------|-----|------|
| 1     |      | 5    | 2   | 3    | 18  | 23  | 9   | -5  | -21 | -27 | -27 | -29 | -18 | -11 | -2  | -1  | 5   | 9   | 21  | 16  | 4    | -1  | -7   | -2      | 1   | -2   |
| 2     |      | -6   | 7   | -4   | 1   | -1  | -3  | -8  | -14 | -23 | -21 | -26 | -17 | 5   | 24  | 27  | 5   | 2   | 5   | 5   | 5    | 6   | 4    | 8       | 5   | -1   |
| 3     |      | -4   | -11 | 7    | 1   | -7  | -16 | -9  | -16 | -28 | -46 | -41 | -40 | -9  | -7  | 3   | -4  | 1   | 16  | 5   | 2    | 3   | 3    | 3       | -8  | -9   |
| 4     |      | -8   | -1  | -7   | 2   | -18 | -17 | -24 | -36 | -43 | -58 | -39 | -18 | -5  | 20  | -3  | 13  | 3   | 9   | 13  | 16   | -5  | -6   | -35     | -19 | -11  |
| 5     |      | 4    | -16 | -8   | -14 | -7  | -19 | -23 | -28 | -39 | -39 | -35 | -16 | -9  | 2   | 7   | 9   | 4   | -3  | 1   | 6    | 2   | -2   | -5      | -4  | -10  |
| 6     |      | -7   | -14 | -11  | -1  | -4  | -11 | -22 | -33 | -30 | -34 | -15 | -15 | -3  | -4  | -2  | 2   | -2  | 5   | 7   | 10   | 2   | 3    | -1      | 4   | -7   |
| 7     | Q    | -4   | -8  | -6   | -7  | -12 | -14 | -16 | -21 | -27 | -30 | -23 | -12 | -4  | 1   | 7   | 8   | 4   | 1   | 6   | 3    | 3   | 4    | 3       | 3   | -6   |
| 8     |      | 4    | 1   | 0    | -2  | -7  | -17 | -27 | -31 | -31 | -22 | -9  | 2   | 7   | 20  | 5   | 6   | 8   | 11  | 17  | 6    | 11  | 9    | 9       | 17  | -1   |
| 9     |      | 3    | 3   | 2    | -1  | -6  | -11 | -18 | -19 | -16 | -9  | -21 | -27 | 9   | 12  | -6  | -8  | 5   | 16  | 22  | -5   | 6   | -17  | -31     | -57 | -7   |
| 10    |      | -22  | -4  | -3   | -5  | -10 | -21 | -36 | -46 | -44 | -39 | -43 | -11 | -1  | 18  | -14 | -4  | -1  | -4  | 7   | -6   | -14 | -4   | -3      | -2  | -13  |
| 11    |      | -3   | -33 | -3   | -1  | -18 | -15 | -26 | -35 | -41 | -37 | -29 | -13 | -6  | 4   | 8   | 3   | 11  | -2  | 8   | 25   | -1  | -4   | 2       | 2   | -9   |
| 12    |      | 5    | -1  | 1    | -3  | -11 | -27 | -21 | -25 | -33 | -28 | -23 | -7  | 3   | 7   | 11  | 10  | 1   | 0   | 6   | 10   | 8   | 7    | 6       | 4   | -4   |
| 13    | _    | -8   | -4  | -11  | -10 | -7  | -18 | -25 | -32 | -40 | -34 | -19 | -11 | -3  | -3  | 0   | -1  | -3  | 2   | 6   | 3    | 0   | -6   | 1       | -1  | -9   |
| 14    | Q    | -7   | -6  | 4    | 1   | -2  | -7  | -16 | -23 | -25 | -26 | -19 | -9  | 3   | 0   | -2  | -4  | -3  | 5   | 6   | 9    | 6   | 3    | 1       | 6   | -4   |
| 15    |      | 4    | 3   | 0    | 0   | 1   | -3  | -9  | -15 | -19 | -20 | -20 | -14 | -6  | 6   | 9   | 5   | 9   | 11  | 12  | 25   | 25  | 10   | 19      | 11  | 2    |
| 16    | D    | -8   | -14 | -5   | 13  | 5   | -3  | -12 | -20 | -40 | -43 | -39 | -34 | -13 | 29  | 93  | 18  | 5   | 9   | 16  | -16  | -13 | -13  | -9      | -14 | -5   |
| 17    | D    | -13  | -42 | -8   | 12  | -11 | -24 | -48 | -19 | -53 | -75 | -40 | -32 | -34 | 146 | 47  | -9  | -20 | 15  | -2  | -21  | -43 | -87  | -95     | -71 | -22  |
| 18    | D    | -124 | -63 | -59  | -26 | -25 | -52 | -25 | -42 | -47 | -56 | -38 | -50 | -18 | 15  | 13  | 7   | 37  | 3   | -23 | -44  | -61 | -35  | -77     | -98 | -37  |
| 19    | D    | -45  | -4  | -9   | -22 | -25 | -24 | -44 | -47 | -71 | -90 | -38 | -7  | -3  | -14 | 8   | 6   | 51  | -9  | -11 | -12  | -2  | -12  | -20     | -31 | -20  |
| 20    |      | -29  | -19 | -31  | -17 | -49 | -14 | -33 | -33 | -47 | -51 | -42 | -36 | -35 | -27 | -20 | -9  | 14  | -5  | -17 | -11  | -9  | -2   | -9      | -10 | -23  |
| 21    |      | -36  | -24 | -3   | -4  | -8  | -17 | -33 | -43 | -47 | -41 | -56 | -48 | -30 | -1  | -1  | -5  | -18 | -4  | -7  | -2   | -12 | -12  | -7      | -2  | -19  |
| 22    |      | -9   | -17 | -21  | -12 | -9  | -18 | -28 | -45 | -41 | -46 | -32 | -34 | -16 | -4  | 1   | -6  | -14 | -16 | -18 | -3   | -13 | -6   | -6      | -6  | -18  |
| 23    |      | -7   | -11 | -18  | -25 | -14 | -12 | -19 | -34 | -43 | -51 | -50 | -38 | -33 | -8  | -4  | -16 | -8  | 3   | 3   | -9   | -1  | 8    | 4       | -6  | -16  |
| 24    | D    | 4    | -20 | -74  | -15 | -25 | -16 | -39 | -64 | -46 | -38 | -43 | -22 | -33 | -14 | 13  | 14  | -5  | -22 | -18 | -16  | -30 | -9   | -34     | -93 | -27  |
| 25    |      | -32  | -15 | -9   | 7   | -16 | -27 | -31 | -36 | -45 | -54 | -32 | -30 | -22 | -16 | 4   | -11 | 13  | -9  | -17 | -20  | -43 | -27  | -8      | -11 | -20  |
| 26    |      | -16  | -21 | -18  | -5  | -4  | -14 | -18 | -30 | -54 | -54 | -36 | -26 | -17 | -12 | -8  | 5   | 1   | -17 | -18 | -19  | 1   | -8   | -9      | -22 | -17  |
| 27    |      | -14  | -7  | -10  | -8  | -6  | -6  | -12 | -20 | -28 | -34 | -30 | -25 | -21 | -17 | -13 | -9  | -5  | -3  | 1   | 1    | 1   | 5    | 2       | -2  | -11  |
| 28    | Q    | -1   | -4  | -6   | -7  | -6  | -5  | -9  | -15 | -27 | -36 | -39 | -32 | -20 | -17 | -9  | -11 | -2  | 1   | 0   | 5    | -1  | 2    | 1       | -1  | -10  |
| 29    | Q    | -3   | -4  | -4   | 1   | 1   | 3   | 0   | -9  | -21 | -33 | -38 | -35 | -26 | -17 | -9  | -5  | -4  | 0   | 4   | 0    | 1   | 5    | 3       | 2   | -8   |
| 30    | Q    | 1    | 1   | 2    | 3   | 7   | 8   | 5   | -5  | -21 | -31 | -28 | -26 | -19 | -9  | -4  | -14 | -19 | -14 | -6  | -6   | 0   | 3    | 10      | -2  | -7   |
| All   |      | -13  | -12 | -10  | -4  | -9  | -14 | -21 | -29 | -36 | -40 | -32 | -23 | -12 | 4   | 5   | 0   | 3   | 1   | 1   | -2   | -6  | -6   | -9      | -14 | -12  |
| Quiet |      | -13  | -12 | -10  | -2  | -2  | -3  | -21 | -15 | -24 | -31 | -29 | -23 | -13 | -8  | -3  | -5  | -5  | -1  | 2   | 2    | 2   | 3    | -9<br>4 | 2   | -12  |
| Dist. |      | -37  | -29 | -31  | -7  | -16 | -24 | -33 | -38 | -51 | -60 | -40 | -29 | -20 | 32  | 35  | 7   | 14  | -1  | -8  | -22  | -30 | -31  | -47     | -61 | -22  |
| Dist. |      | - 01 | 20  | - 91 | -1  | 10  | 27  | 30  | 30  | J1  | 50  | 10  | 20  | 20  | 32  | 30  |     | 14  | -1  | -0  | - 22 | 30  | - 01 | 11      | 01  | -22  |

September 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14  | 15 | 16 | 17  | 18 | 19 | 20 | 21  | 22  | 23 | 24  | Mean |
|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|-----|----|----|----|-----|-----|----|-----|------|
| 1     |      | 36 | 37 | 35 | 44 | 59 | 62 | 56 | 59 | 56 | 44 | 26 | 10 | 4  | 5   | 12 | 20 | 26  | 28 | 38 | 61 | 49  | 51  | 43 | 50  | 38   |
| 2     |      | 56 | 50 | 58 | 59 | 59 | 58 | 58 | 51 | 41 | 24 | 10 | 0  | -4 | -3  | 26 | 25 | 26  | 28 | 30 | 42 | 47  | 37  | 31 | 39  | 35   |
| 3     |      | 53 | 48 | 56 | 63 | 64 | 48 | 51 | 48 | 39 | 28 | 3  | 9  | -4 | -2  | 12 | 21 | 23  | 23 | 51 | 36 | 30  | 66  | 61 | 35  | 36   |
| 4     |      | 39 | 39 | 46 | 52 | 67 | 60 | 59 | 55 | 34 | 21 | 13 | 5  | 12 | 8   | 28 | 32 | 29  | 27 | 70 | 62 | 70  | 112 | 65 | 61  | 44   |
| 5     |      | 27 | 39 | 50 | 62 | 67 | 70 | 62 | 53 | 41 | 25 | 15 | 4  | 18 | 19  | 30 | 70 | 46  | 29 | 30 | 43 | 41  | 39  | 43 | 44  | 40   |
| 6     |      | 44 | 42 | 36 | 56 | 61 | 65 | 63 | 51 | 30 | 19 | 5  | 7  | 15 | 24  | 30 | 38 | 51  | 52 | 41 | 46 | 37  | 31  | 31 | 35  | 38   |
| 7     | Q    | 43 | 42 | 49 | 55 | 57 | 55 | 52 | 43 | 33 | 21 | 10 | 7  | 12 | 21  | 32 | 39 | 39  | 35 | 42 | 35 | 34  | 35  | 39 | 41  | 36   |
| 8     |      | 41 | 44 | 47 | 54 | 60 | 63 | 60 | 50 | 36 | 22 | 9  | 5  | 13 | 16  | 25 | 25 | 20  | 23 | 25 | 25 | 29  | 33  | 46 | 53  | 34   |
| 9     |      | 57 | 53 | 54 | 57 | 59 | 60 | 54 | 42 | 31 | 13 | 4  | 0  | -9 | -11 | 5  | 14 | 21  | 26 | 69 | 42 | 72  | 67  | 41 | 45  | 36   |
| 10    |      | 84 | 63 | 61 | 61 | 63 | 62 | 61 | 55 | 36 | 16 | 12 | 6  | 14 | 14  | 26 | 31 | 29  | 41 | 88 | 55 | 37  | 46  | 55 | 47  | 44   |
| 11    |      | 51 | 38 | 58 | 67 | 42 | 41 | 41 | 36 | 31 | 18 | 8  | 2  | 13 | 17  | 25 | 30 | 30  | 34 | 40 | 63 | 47  | 23  | 37 | 46  | 35   |
| 12    |      | 42 | 39 | 49 | 55 | 59 | 51 | 45 | 46 | 37 | 19 | 8  | 4  | 12 | 33  | 36 | 35 | 32  | 35 | 32 | 29 | 40  | 35  | 38 | 44  | 36   |
| 13    |      | 33 | 38 | 42 | 51 | 52 | 54 | 47 | 35 | 33 | 25 | 23 | 23 | 26 | 32  | 34 | 33 | 31  | 30 | 33 | 36 | 35  | 31  | 35 | 54  | 36   |
| 14    | Q    | 51 | 62 | 59 | 55 | 56 | 56 | 56 | 49 | 35 | 22 | 18 | 21 | 18 | 22  | 26 | 29 | 32  | 34 | 34 | 41 | 38  | 45  | 49 | 34  | 39   |
| 15    |      | 47 | 48 | 49 | 47 | 48 | 49 | 48 | 47 | 42 | 29 | 17 | 15 | 17 | 20  | 21 | 24 | 25  | 24 | 24 | 28 | 36  | 40  | 31 | 76  | 35   |
| 16    | D    | 58 | 63 | 62 | 52 | 16 | 11 | 7  | 9  | 33 | 24 | 16 | 3  | -1 | -11 | 56 | 9  | 18  | 33 | 56 | 30 | 42  | 51  | 52 | 49  | 31   |
| 17    | D    | 61 | 27 | 4  | 55 | 64 | 46 | 10 | 21 | 24 | 39 | 39 | 33 | 24 | 60  | 51 | 16 | 24  | 85 | 71 | 56 | 55  | 59  | 86 | 107 | 46   |
| 18    | D    | 95 | 41 | 32 | 42 | 33 | 53 | 51 | 43 | 51 | 60 | 35 | 53 | 31 | 70  | 31 | 35 | 98  | 72 | 66 | 83 | 123 | 91  | 87 | 37  | 59   |
| 19    | D    | 35 | 71 | 62 | 48 | 40 | 46 | 47 | 60 | 58 | 36 | 30 | 33 | 50 | 32  | 61 | 55 | 101 | 69 | 54 | 48 | 41  | 69  | 53 | 39  | 52   |
| 20    |      | 23 | 40 | 44 | 35 | 15 | 24 | 29 | 58 | 58 | 50 | 48 | 37 | 30 | 27  | 68 | 46 | 86  | 53 | 48 | 49 | 54  | 44  | 49 | 44  | 44   |
| 21    |      | 37 | 14 | 46 | 51 | 51 | 53 | 53 | 54 | 48 | 34 | 30 | 26 | 26 | 20  | 38 | 36 | 38  | 64 | 57 | 43 | 46  | 46  | 41 | 40  | 41   |
| 22    |      | 41 | 34 | 19 | 33 | 40 | 49 | 42 | 38 | 33 | 35 | 23 | 16 | 14 | 19  | 47 | 45 | 72  | 56 | 55 | 72 | 46  | 39  | 38 | 38  | 39   |
| 23    |      | 39 | 42 | 29 | 28 | 26 | 60 | 64 | 58 | 46 | 31 | 19 | 8  | 16 | 18  | 22 | 39 | 38  | 75 | 65 | 56 | 47  | 44  | 39 | 32  | 39   |
| 24    | D    | 33 | 75 | 38 | 16 | 27 | 29 | 40 | 40 | 34 | 27 | 29 | 18 | 23 | 13  | 45 | 90 | 71  | 49 | 58 | 20 | 36  | 45  | 66 | 56  | 41   |
| 25    |      | 42 | 93 | 78 | 60 | 61 | 47 | 32 | 33 | 33 | 24 | 23 | 39 | 27 | 26  | 54 | 44 | 79  | 59 | 76 | 71 | 56  | 42  | 36 | 34  | 49   |
| 26    |      | 32 | 41 | 41 | 51 | 48 | 47 | 47 | 42 | 37 | 31 | 28 | 20 | 24 | 28  | 35 | 70 | 80  | 60 | 74 | 53 | 34  | 39  | 44 | 20  | 43   |
| 27    |      | 34 | 61 | 54 | 51 | 52 | 51 | 50 | 49 | 43 | 33 | 21 | 14 | 13 | 17  | 25 | 33 | 36  | 38 | 37 | 39 | 41  | 51  | 47 | 45  | 39   |
| 28    | Q    | 41 | 45 | 46 | 46 | 47 | 49 | 54 | 54 | 49 | 37 | 24 | 16 | 12 | 16  | 20 | 30 | 50  | 39 | 40 | 51 | 46  | 44  | 44 | 45  | 39   |
| 29    | Q    | 40 | 44 | 40 | 41 | 40 | 47 | 53 | 57 | 53 | 43 | 27 | 16 | 14 | 15  | 22 | 23 | 28  | 34 | 37 | 43 | 46  | 62  | 50 | 41  | 38   |
| 30    | Q    | 42 | 44 | 46 | 47 | 49 | 50 | 55 | 55 | 46 | 36 | 23 | 12 | 4  | 7   | 17 | 17 | 39  | 38 | 41 | 48 | 38  | 39  | 44 | 60  | 37   |
|       | ~    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |     |    |    |    |     |     |    |     |      |
| All   |      | 45 | 47 | 46 | 50 | 49 | 51 | 48 | 46 | 40 | 29 | 20 | 15 | 15 | 19  | 32 | 35 | 44  | 43 | 49 | 47 | 46  | 49  | 47 | 46  | 40   |
| Quiet |      | 43 | 47 | 48 | 49 | 50 | 51 | 54 | 52 | 43 | 32 | 21 | 14 | 12 | 16  | 23 | 28 | 38  | 36 | 39 | 43 | 40  | 45  | 45 | 44  | 38   |
| Dist. |      | 56 | 55 | 40 | 43 | 36 | 37 | 31 | 35 | 40 | 37 | 30 | 28 | 25 | 33  | 49 | 41 | 62  | 62 | 61 | 48 | 59  | 63  | 69 | 58  | 46   |

September 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1    | 2   | 3   | 4   | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20 | 21  | 22   | 23  | 24   | Mean |
|-------|------|------|-----|-----|-----|-----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|-----|------|------|
| 1     |      | 49   | 45  | 41  | 38  | 35  | 37 | 41 | 43 | 44 | 37 | 32 | 34  | 43  | 51  | 54  | 60  | 63  | 70  | 47  | 42 | 51  | 50   | 44  | 53   | 46   |
| 2     |      | 45   | 31  | 40  | 49  | 51  | 50 | 52 | 50 | 46 | 45 | 43 | 43  | 54  | 79  | 118 | 84  | 65  | 58  | 56  | 57 | 55  | 51   | 29  | 18   | 53   |
| 3     |      | 9    | 12  | 34  | 40  | 40  | 44 | 45 | 46 | 41 | 42 | 47 | 45  | 48  | 54  | 60  | 60  | 57  | 63  | 76  | 60 | 56  | 48   | 41  | 32   | 46   |
| 4     |      | 4    | 27  | 35  | 44  | 29  | 38 | 48 | 45 | 47 | 45 | 49 | 59  | 64  | 78  | 82  | 81  | 73  | 69  | 60  | 35 | 15  | -2   | 6   | -31  | 42   |
| 5     |      | -24  | 27  | 48  | 41  | 46  | 53 | 53 | 49 | 48 | 48 | 47 | 60  | 68  | 67  | 68  | 85  | 67  | 57  | 55  | 52 | 50  | 46   | 44  | 51   | 50   |
| 6     |      | 51   | 51  | 49  | 49  | 52  | 52 | 53 | 55 | 49 | 46 | 47 | 50  | 58  | 55  | 55  | 59  | 62  | 59  | 52  | 52 | 49  | 44   | 41  | 39   | 51   |
| 7     | Q    | 34   | 41  | 48  | 48  | 51  | 55 | 56 | 52 | 48 | 45 | 44 | 46  | 49  | 50  | 53  | 55  | 53  | 53  | 53  | 50 | 51  | 50   | 51  | 51   | 49   |
| 8     |      | 49   | 51  | 52  | 53  | 55  | 55 | 50 | 45 | 41 | 36 | 37 | 43  | 46  | 47  | 45  | 46  | 45  | 47  | 49  | 53 | 54  | 52   | 51  | 44   | 48   |
| 9     |      | 42   | 48  | 50  | 52  | 50  | 47 | 45 | 43 | 44 | 40 | 43 | 43  | 45  | 59  | 68  | 66  | 64  | 59  | 53  | 54 | 33  | 22   | 11  | -57  | 43   |
| 10    |      | -69  | 31  | 49  | 53  | 53  | 56 | 58 | 56 | 48 | 46 | 51 | 61  | 64  | 72  | 65  | 72  | 63  | 64  | 57  | 42 | 38  | 11   | 18  | 27   | 45   |
| 11    |      | 25   | 28  | 39  | 34  | 32  | 41 | 47 | 50 | 45 | 41 | 41 | 54  | 54  | 57  | 54  | 52  | 56  | 63  | 59  | 33 | 41  | 39   | 38  | 44   | 44   |
| 12    |      | 37   | 35  | 44  | 47  | 48  | 49 | 45 | 42 | 41 | 39 | 42 | 49  | 58  | 63  | 62  | 57  | 54  | 55  | 53  | 51 | 52  | 50   | 51  | 50   | 49   |
| 13    |      | 46   | 34  | 34  | 41  | 44  | 47 | 49 | 50 | 52 | 52 | 49 | 50  | 51  | 51  | 53  | 51  | 52  | 53  | 53  | 53 | 52  | 42   | 25  | 38   | 47   |
| 14    | Q    | 35   | 38  | 45  | 48  | 50  | 50 | 49 | 48 | 47 | 41 | 40 | 44  | 49  | 52  | 54  | 54  | 51  | 52  | 51  | 50 | 49  | 50   | 50  | 42   | 47   |
| 15    |      | 43   | 47  | 48  | 49  | 49  | 49 | 46 | 45 | 45 | 42 | 39 | 40  | 43  | 46  | 47  | 47  | 48  | 48  | 50  | 49 | 41  | 48   | 23  | 8    | 43   |
| 16    | D    | 30   | -9  | -17 | 5   | 8   | 15 | 20 | 25 | 41 | 62 | 71 | 74  | 87  | 114 | 227 | 161 | 155 | 154 | 131 | 80 | 72  | 58   | 34  | 11   | 67   |
| 17    | D    | 21   | -3  | -42 | -11 | 20  | 34 | 33 | 49 | 55 | 68 | 86 | 109 | 162 | 240 | 176 | 125 | 121 | 122 | 15  | 31 | 6   | -123 | -86 | -160 | 44   |
| 18    | D    | -101 | -58 | -18 | 26  | 24  | 30 | 48 | 51 | 60 | 72 | 81 | 113 | 104 | 132 | 98  | 109 | 114 | 42  | 75  | 33 | -9  | -12  | -40 | -103 | 36   |
| 19    | D    | -92  | -16 | 37  | 44  | 38  | 46 | 55 | 64 | 69 | 72 | 67 | 97  | 113 | 110 | 133 | 107 | 89  | 65  | 49  | 35 | 21  | 19   | 31  | -8   | 52   |
| 20    |      | -23  | -10 | 3   | 38  | 19  | 38 | 42 | 52 | 67 | 80 | 97 | 99  | 98  | 109 | 120 | 87  | 101 | 67  | 69  | 63 | 51  | 27   | 43  | 49   | 58   |
| 21    |      | 29   | 27  | 49  | 53  | 55  | 58 | 59 | 65 | 64 | 65 | 67 | 66  | 66  | 91  | 117 | 125 | 115 | 75  | 63  | 44 | 55  | 55   | 49  | 42   | 65   |
| 22    |      | 49   | 47  | 43  | 37  | 43  | 50 | 59 | 57 | 58 | 61 | 71 | 68  | 81  | 95  | 108 | 86  | 90  | 71  | 69  | 31 | 48  | 56   | 55  | 57   | 62   |
| 23    |      | 57   | 57  | 50  | 36  | 32  | 46 | 53 | 56 | 54 | 56 | 61 | 70  | 70  | 72  | 73  | 76  | 66  | 69  | 51  | 56 | 57  | 48   | 51  | 42   | 57   |
| 24    | D    | -11  | -34 | -62 | -27 | -25 | 27 | 40 | 51 | 60 | 61 | 64 | 80  | 82  | 98  | 135 | 123 | 133 | 101 | 92  | 28 | -27 | -28  | -30 | -89  | 35   |
| 25    |      | -45  | -17 | -1  | 22  | 32  | 44 | 54 | 66 | 70 | 69 | 79 | 104 | 98  | 111 | 118 | 99  | 96  | 86  | 76  | 40 | 19  | 13   | 31  | 46   | 55   |
| 26    |      | 45   | 48  | 57  | 58  | 59  | 58 | 60 | 59 | 63 | 72 | 70 | 70  | 72  | 80  | 82  | 93  | 82  | 80  | 71  | 60 | 41  | 43   | 47  | 17   | 62   |
| 27    |      | 13   | 37  | 50  | 55  | 58  | 60 | 59 | 57 | 51 | 45 | 48 | 52  | 54  | 57  | 60  | 60  | 59  | 59  | 58  | 58 | 58  | 49   | 46  | 48   | 52   |
| 28    | Q    | 50   | 53  | 55  | 56  | 57  | 57 | 56 | 52 | 50 | 49 | 48 | 51  | 58  | 62  | 67  | 67  | 69  | 60  | 61  | 55 | 53  | 52   | 47  | 48   | 56   |
| 29    | Q    | 50   | 51  | 51  | 50  | 54  | 57 | 55 | 54 | 52 | 50 | 50 | 52  | 54  | 60  | 63  | 63  | 63  | 63  | 62  | 63 | 60  | 51   | 50  | 53   | 55   |
| 30    | Q    | 55   | 55  | 54  | 54  | 55  | 54 | 50 | 49 | 49 | 46 | 46 | 48  | 52  | 61  | 73  | 83  | 84  | 80  | 71  | 66 | 61  | 57   | 51  | 38   | 58   |
| All   |      | 17   | 26  | 32  | 39  | 40  | 46 | 49 | 51 | 52 | 53 | 55 | 62  | 68  | 79  | 86  | 80  | 77  | 69  | 61  | 49 | 42  | 32   | 30  | 17   | 51   |
| Quiet |      | 45   | 48  | 51  | 51  | 53  | 55 | 53 | 51 | 49 | 46 | 46 | 48  | 52  | 57  | 62  | 64  | 64  | 61  | 60  | 57 | 55  | 52   | 50  | 46   | 53   |
| Dist. |      | -30  | -24 | -20 | 7   | 13  | 31 | 39 | 48 | 57 | 67 | 74 | 94  | 110 | 139 | 154 | 125 | 123 | 97  | 73  | 41 | 13  | -17  | -18 | -70  | 47   |

Nurmijärvi Finland  ${\it October~2003~North~component~X~in~nT~(X=14900~nT~+~tabular~values)}$ 

| Day   | Char | 1    | 2    | 3    | 4    | 5    | 6   | 7    | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20   | 21    | 22    | 23    | 24   | Mean  |
|-------|------|------|------|------|------|------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|------|-------|
| 1     |      | -7   | -20  | -2   | -3   | -3   | -5  | -16  | -20  | -30  | -38 | -41 | -35 | -25 | -17 | -14 | -3  | 1   | 7   | 13  | 16   | 15    | -40   | -78   | -27  | -15   |
| 2     |      | -12  | -11  | -14  | -12  | -11  | -13 | -15  | -19  | -24  | -36 | -39 | -35 | -23 | -13 | 0   | 15  | 10  | 7   | 2   | 2    | -7    | -14   | -2    | -6   | -11   |
| 3     |      | -3   | -14  | -5   | -11  | -15  | -10 | -17  | -24  | -32  | -39 | -31 | -25 | -13 | -5  | -2  | -3  | -6  | -10 | -1  | -8   | -2    | -2    | 2     | -4   | -12   |
| 4     | Q    | -1   | -7   | -9   | -6   | -4   | -3  | -13  | -11  | -16  | -22 | -21 | -17 | -26 | -14 | -5  | -3  | -2  | 0   | -1  | -1   | -1    | -2    | -3    | -3   | -8    |
| 5     |      | -4   | -5   | -6   | -6   | -4   | -2  | -4   | -10  | -18  | -23 | -24 | -19 | -13 | -7  | 0   | 4   | 3   | 15  | 11  | 15   | 13    | 1     | -18   | 7    | -4    |
| 6     |      | -1   | -1   | -1   | -1   | 1    | 3   | 2    | -1   | -14  | -19 | -20 | -15 | -8  | 3   | -1  | 3   | 4   | 10  | -7  | -10  | -4    | 4     | 5     | -4   | -3    |
| 7     |      | -13  | -17  | -2   | 1    | 2    | 2   | -7   | -16  | -29  | -27 | -26 | -25 | -14 | -11 | -16 | -14 | -10 | 8   | 7   | 5    | 1     | -4    | -7    | -2   | -9    |
| 8     |      | 1    | -3   | -1   | 2    | 2    | 0   | -7   | -18  | -29  | -35 | -31 | -18 | -12 | -6  | -3  | -3  | -2  | 1   | 3   | -1   | 1     | -1    | 2     | -6   | -7    |
| 9     |      | 4    | 3    | -6   | -3   | 0    | -2  | -9   | -17  | -28  | -31 | -30 | -20 | -9  | -3  | -1  | -1  | -1  | 0   | 1   | 0    | -1    | 2     | 1     | 0    | -6    |
| 10    | Q    | 0    | -1   | -2   | -3   | -3   | -6  | -13  | -24  | -33  | -35 | -30 | -20 | -8  | -1  | 2   | 0   | 1   | 2   | 3   | 4    | 3     | 4     | -5    | -6   | -7    |
| 11    | Q    | -4   | -4   | -1   | 1    | 1    | -4  | -13  | -26  | -35  | -36 | -32 | -22 | -9  | -3  | -3  | -2  | 0   | 3   | 3   | 1    | 1     | 3     | 1     | -2   | -8    |
| 12    | Q    | 0    | 0    | 1    | 3    | 5    | 3   | -2   | -12  | -22  | -27 | -30 | -23 | -8  | -4  | -3  | -1  | 0   | 1   | 3   | 3    | 5     | 5     | 3     | 8    | -4    |
| 13    |      | 9    | 4    | -8   | 10   | 7    | 12  | 5    | 1    | 3    | -5  | -12 | -19 | -14 | -7  | -1  | -10 | -25 | -19 | -6  | -1   | -30   | -64   | -16   | -37  | -9    |
| 14    | D    | -4   | -3   | -9   | -9   | -11  | -35 | -39  | -29  | -43  | -57 | -42 | -48 | -29 | -23 | -27 | -6  | -16 | -20 | 84  | -11  | -45   | -146  | -495  | -118 | -49   |
| 15    |      | -34  | -38  | -42  | -38  | -42  | -52 | -66  | -48  | -56  | -41 | -43 | -38 | -58 | -26 | -34 | -5  | -13 | -28 | -24 | -5   | -6    | -89   | -56   | -27  | -38   |
| 16    |      | -64  | -67  | -30  | -19  | -16  | -13 | -16  | -21  | -26  | -63 | -58 | -44 | -26 | -26 | -24 | -22 | -28 | -5  | -27 | -29  | -18   | -6    | -20   | -9   | -28   |
| 17    |      | -16  | -23  | -34  | -19  | -48  | -57 | -55  | -50  | -50  | -53 | -54 | -36 | -23 | -16 | -21 | -22 | -17 | -12 | -14 | -25  | -4    | -19   | -22   | -16  | -29   |
| 18    |      | -6   | -23  | -24  | 1    | -26  | -30 | -40  | -40  | -27  | -45 | -48 | -46 | -26 | -14 | -11 | -25 | -27 | -9  | -25 | -27  | -5    | -15   | -16   | -6   | -23   |
| 19    |      | -15  | -16  | -30  | -31  | -19  | -10 | -27  | -40  | -50  | -57 | -67 | -38 | -44 | 2   | 6   | 16  | -4  | -15 | -64 | -62  | -73   | -78   | -43   | -20  | -33   |
| 20    |      | -35  | -26  | -21  | -22  | -20  | -17 | -16  | -33  | -85  | -84 | -63 | -45 | -32 | -36 | -28 | -20 | -23 | -23 | -16 | 6    | -13   | -91   | -85   | -76  | -38   |
| 21    | D    | -45  | -81  | -20  | -7   | -8   | -30 | -51  | -67  | -50  | -45 | -27 | -32 | -9  | 16  | 22  | -14 | 15  | -15 | -56 | -32  | -74   | -190  | -151  | -34  | -41   |
| 22    |      | -83  | -59  | -28  | -9   | -29  | -25 | -41  | -31  | -48  | -48 | -37 | -20 | -17 | -19 | -4  | -10 | -4  | -30 | -21 | -18  | -17   | -14   | -15   | -14  | -27   |
| 23    | Q    | -10  | -10  | -11  | -7   | -4   | -2  | -6   | -14  | -24  | -32 | -34 | -33 | -27 | -15 | -12 | -10 | -9  | -7  | -7  | -5   | -5    | -5    | -5    | -5   | -12   |
| 24    |      | -5   | -5   | -2   | 0    | 3    | 6   | -2   | -14  | -24  | -22 | -32 | -24 | -6  | 24  | 22  | 130 | 32  | 0   | 37  | 52   | -27   | -9    | -2    | -26  | 4     |
| 25    |      | -14  | -26  | -19  | -4   | -9   | -5  | -10  | -21  | -24  | -24 | -25 | -22 | -13 | 10  | -5  | -25 | -16 | -22 | -20 | -14  | -14   | 6     | -11   | -15  | -14   |
| 26    |      |      |      | -28  | -22  | -14  | -18 | -27  | -38  | -42  | -39 | -27 | -22 | -10 | -7  | -7  | -7  | -4  | -3  | 0   | 14   | 12    | -9    | -20   | -18  | (-15) |
| 27    |      | -30  | -34  | -34  | -29  | -30  | -38 | -48  | -46  | -57  | -67 | -52 | -40 | -27 | -22 | -19 | -16 | -11 | -15 | -21 | -9   | -8    | -12   | -10   | -12  | -29   |
| 28    |      | -13  | -15  | -9   | -19  | -20  | -7  | -8   | -29  | -42  | -47 | -34 | -53 | -27 | -20 | -12 | 1   | 8   | -3  | -7  | -8   | -23   | -23   | -25   | -59  | -21   |
| 29    | D    | -24  | -45  | -46  | -33  | -29  | -28 | -508 | -168 | -185 | -87 | -53 | -55 | -18 | 97  | 163 | 264 | 299 | 253 | 96  | -614 | -1054 | -998  | -1041 | -771 | -191  |
| 30    | D    | -747 | -949 | -568 | -299 | -101 | -75 | -72  | -72  | -72  | -67 | -60 | -42 | -26 | 9   | -24 | -39 | -7  | -51 | 40  | -493 | -1037 | -1266 | -873  | -704 | -316  |
| 31    | D    | -868 | -596 | -140 | -57  | -64  | -59 | -47  | -23  | -24  | -26 | -13 | 50  | 13  | -8  | -27 | -29 | -34 | -31 | -22 | -27  | -11   | -20   | -20   | -29  | -88   |
| All   |      | -68  | -70  | -37  | -21  | -16  | -17 | -38  | -32  | -40  | -41 | -37 | -28 | -19 | -5  | -3  | 5   | 4   | 0   | -1  | -41  | -78   | -100  | -98   | -66  | -35   |
| Quiet |      | -3   | -4   | -4   | -2   | -1   | -2  | -9   | -18  | -26  | -30 | -29 | -23 | -16 | -8  | -4  | -3  | -2  | 0   | 0   | 0    | 1     | 1     | -2    | -2   | -8    |
| Dist. |      | -338 | -335 | -156 | -81  | -42  | -45 | -143 | -72  | -75  | -57 | -39 | -25 | -14 | 18  | 21  | 35  | 51  | 27  | 28  | -235 | -444  | -524  | -516  | -331 | -137  |

October 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1   | 2   | 3  | 4   | 5   | 6  | 7   | 8   | 9   | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|----|-----|-----|----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1     |      | 53  | 37  | 43 | 52  | 51  | 52 | 53  | 54  | 49  | 42 | 31 | 22 | 17 | 15  | 19  | 26  | 30  | 31  | 27  | 28  | 83  | 154 | 118 | 74  | 48   |
| 2     |      | 78  | 77  | 65 | 64  | 55  | 46 | 51  | 54  | 51  | 46 | 32 | 21 | 16 | 20  | 26  | 31  | 27  | 18  | 26  | 33  | 29  | 71  | 62  | 73  | 45   |
| 3     |      | 81  | 79  | 81 | 63  | 33  | 19 | 42  | 53  | 50  | 45 | 39 | 26 | 14 | 12  | 18  | 25  | 33  | 42  | 58  | 40  | 38  | 42  | 55  | 42  | 43   |
| 4     | Q    | 44  | 49  | 48 | 46  | 48  | 53 | 52  | 47  | 41  | 39 | 34 | 25 | 25 | 28  | 26  | 32  | 34  | 36  | 38  | 39  | 41  | 43  | 44  | 45  | 40   |
| 5     |      | 45  | 45  | 46 | 45  | 44  | 46 | 52  | 55  | 53  | 43 | 34 | 25 | 18 | 18  | 23  | 27  | 30  | 29  | 27  | 27  | 35  | 55  | 70  | 76  | 40   |
| 6     |      | 63  | 52  | 50 | 48  | 47  | 46 | 49  | 51  | 50  | 39 | 31 | 24 | 18 | 10  | 20  | 21  | 23  | 26  | 57  | 57  | 60  | 45  | 43  | 54  | 41   |
| 7     |      | 66  | 53  | 40 | 46  | 45  | 47 | 51  | 50  | 46  | 34 | 18 | 27 | 25 | 17  | 26  | 29  | 42  | 73  | 58  | 46  | 51  | 51  | 47  | 28  | 42   |
| 8     |      | 44  | 46  | 44 | 42  | 46  | 47 | 54  | 55  | 48  | 36 | 28 | 20 | 17 | 20  | 28  | 33  | 33  | 34  | 37  | 39  | 41  | 40  | 36  | 50  | 38   |
| 9     |      | 38  | 65  | 52 | 44  | 53  | 57 | 60  | 58  | 49  | 35 | 25 | 17 | 12 | 21  | 33  | 35  | 38  | 37  | 38  | 38  | 41  | 40  | 40  | 41  | 40   |
| 10    | Q    | 42  | 42  | 43 | 45  | 47  | 53 | 59  | 59  | 50  | 38 | 27 | 19 | 17 | 23  | 31  | 33  | 34  | 37  | 38  | 37  | 39  | 40  | 55  | 53  | 40   |
| 11    | Q    | 52  | 48  | 46 | 46  | 47  | 53 | 57  | 54  | 47  | 33 | 20 | 13 | 14 | 20  | 30  | 33  | 35  | 35  | 37  | 37  | 39  | 42  | 46  | 48  | 39   |
| 12    | Q    | 51  | 47  | 45 | 45  | 44  | 47 | 51  | 53  | 48  | 35 | 23 | 12 | 8  | 14  | 23  | 28  | 27  | 32  | 36  | 37  | 41  | 48  | 48  | 53  | 37   |
| 13    |      | 59  | 61  | 43 | 31  | 47  | 46 | 50  | 51  | 48  | 35 | 27 | 22 | 14 | 13  | 10  | 12  | 14  | 37  | 36  | 37  | 85  | 149 | 51  | 39  | 42   |
| 14    | D    | 31  | 44  | 52 | 47  | 50  | 41 | -2  | 23  | 43  | 16 | 29 | 22 | 5  | 12  | 34  | 23  | 18  | 53  | 125 | 88  | 69  | 233 | 179 | 124 | 57   |
| 15    |      | 78  | 72  | 59 | 49  | 44  | 27 | 47  | 58  | 59  | 62 | 53 | 57 | 36 | 66  | 46  | 98  | 136 | 66  | 102 | 73  | 62  | 75  | 53  | 60  | 64   |
| 16    |      | 46  | 35  | -5 | 55  | 57  | 59 | 62  | 70  | 56  | 50 | 44 | 40 | 40 | 35  | 87  | 64  | 54  | 72  | 47  | 70  | 33  | 42  | 53  | 28  | 50   |
| 17    |      | 43  | 61  | 48 | 38  | 22  | 6  | -10 | 23  | 45  | 44 | 31 | 29 | 59 | 25  | 31  | 41  | 52  | 48  | 53  | 66  | 66  | 53  | 18  | 35  | 39   |
| 18    |      | 48  | 37  | 26 | 41  | 35  | 7  | 27  | 36  | 39  | 33 | 29 | 18 | 9  | 33  | 50  | 39  | 50  | 77  | 72  | 66  | 58  | 51  | 74  | 51  | 42   |
| 19    |      | 39  | 58  | 23 | 10  | 10  | 11 | 34  | 39  | 38  | 20 | 16 | 16 | 27 | 35  | 51  | 96  | 55  | 61  | 139 | 83  | 85  | 44  | 87  | 91  | 49   |
| 20    |      | 65  | 39  | 43 | 42  | 46  | 51 | 57  | 54  | 59  | 46 | 31 | 22 | 30 | 29  | 15  | 56  | 41  | 33  | 69  | 106 | 90  | 129 | 117 | 77  | 56   |
| 21    | D    | 36  | 38  | 27 | 49  | 38  | 42 | 36  | 16  | 26  | 27 | 21 | 30 | 24 | 39  | 71  | 26  | 41  | 53  | 118 | 101 | 91  | 145 | 89  | 84  | 53   |
| 22    |      | 38  | 4   | 14 | 21  | 16  | 10 | 11  | 24  | 37  | 43 | 45 | 34 | 33 | 33  | 36  | 35  | 137 | 49  | 46  | 58  | 50  | 51  | 54  | 51  | 39   |
| 23    | Q    | 47  | 45  | 46 | 45  | 45  | 43 | 46  | 53  | 54  | 48 | 42 | 35 | 30 | 30  | 33  | 36  | 37  | 40  | 42  | 43  | 46  | 47  | 48  | 47  | 43   |
| 24    |      | 46  | 45  | 45 | 44  | 42  | 42 | 46  | 54  | 51  | 39 | 34 | 20 | 18 | 9   | 47  | 83  | 22  | -5  | 4   | 45  | 53  | 45  | 41  | 52  | 39   |
| 25    |      | 42  | 42  | 46 | 54  | 52  | 50 | 49  | 51  | 46  | 38 | 33 | 28 | 24 | 15  | 9   | 41  | 29  | 33  | 35  | 45  | 50  | 63  | 52  | 53  | 41   |
| 26    |      |     |     | 57 | 52  | 52  | 48 | 53  | 53  | 48  | 31 | 24 | 21 | 23 | 32  | 37  | 38  | 37  | 37  | 34  | 32  | 53  | 91  | 75  | 91  | (46) |
| 27    |      | 92  | 76  | 71 | 66  | 61  | 67 | 67  | 50  | 44  | 34 | 29 | 22 | 24 | 32  | 38  | 36  | 38  | 49  | 45  | 47  | 47  | 49  | 47  | 52  | 49   |
| 28    |      | 51  | 55  | 58 | 74  | 66  | 74 | 67  | 58  | 37  | 24 | 32 | -8 | 9  | 27  | 37  | 45  | 63  | 48  | 60  | 73  | 86  | 64  | 37  | 20  | 48   |
| 29    | D    | 52  | 73  | 55 | 52  | 56  | 61 | -3  | 296 | 138 | 38 | 51 | -7 | 22 | -26 | -47 | 43  | 16  | -5  | -37 | 48  | 289 | 272 | -9  | 414 | 77   |
| 30    | D    | 234 | 265 | 34 | 114 | 108 | 98 | 96  | 80  | 67  | 66 | 67 | 57 | 58 | 94  | 102 | 118 | 113 | 195 | 79  | 73  | 506 | 322 | 246 | 194 | 141  |
| 31    | D    | 192 | 77  | 80 | 72  | 93  | 78 | 65  | 52  | 58  | 50 | 50 | 5  | -1 | -9  | 9   | 21  | 68  | 50  | 50  | 55  | 66  | 42  | 72  | 102 | 58   |
| All   |      | 63  | 59  | 46 | 50  | 48  | 46 | 46  | 58  | 51  | 39 | 33 | 23 | 22 | 24  | 32  | 42  | 45  | 46  | 51  | 54  | 78  | 85  | 66  | 74  | 49   |
| Quiet |      | 47  | 46  | 45 | 45  | 46  | 50 | 53  | 53  | 48  | 38 | 29 | 21 | 19 | 23  | 28  | 32  | 33  | 36  | 38  | 39  | 41  | 44  | 48  | 49  | 40   |
| Dist. |      | 109 | 100 | 49 | 67  | 69  | 64 | 38  | 94  | 66  | 39 | 44 | 21 | 22 | 22  | 34  | 46  | 51  | 69  | 67  | 73  | 204 | 203 | 115 | 184 | 77   |

October 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1   | 2    | 3    | 4    | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20   | 21   | 22   | 23   | 24   | Mean |
|-------|------|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 1     |      | 37  | 38   | 36   | 45   | 52  | 55  | 55  | 56  | 54  | 50  | 50  | 53  | 54  | 58  | 59  | 59  | 56  | 55  | 54  | 56   | 53   | -31  | 9    | 54   | 47   |
| 2     |      | 41  | 58   | 59   | 57   | 57  | 61  | 62  | 60  | 58  | 56  | 56  | 58  | 59  | 60  | 60  | 63  | 60  | 63  | 69  | 62   | 58   | 54   | 60   | 50   | 58   |
| 3     | _    | 40  | 33   | 15   | 30   | 18  | 21  | 45  | 53  | 52  | 53  | 53  | 53  | 55  | 60  | 63  | 66  | 69  | 80  | 63  | 62   | 60   | 56   | 56   | 55   | 50   |
| 4     | Q    | 55  | 54   | 55   | 55   | 55  | 54  | 54  | 54  | 55  | 55  | 52  | 54  | 59  | 60  | 56  | 56  | 55  | 55  | 55  | 55   | 56   | 56   | 55   | 55   | 55   |
| 5     |      | 54  | 54   | 54   | 54   | 53  | 54  | 55  | 53  | 49  | 47  | 48  | 47  | 48  | 49  | 51  | 51  | 51  | 51  | 52  | 54   | 57   | 63   | 48   | 44   | 52   |
| 6     |      | 45  | 53   | 53   | 53   | 51  | 51  | 52  | 51  | 50  | 47  | 45  | 45  | 48  | 53  | 53  | 54  | 55  | 56  | 71  | 65   | 63   | 48   | 22   | 15   | 50   |
| 7     |      | -12 | 1    | 28   | 47   | 51  | 54  | 57  | 57  | 58  | 57  | 60  | 67  | 70  | 69  | 73  | 68  | 70  | 60  | 56  | 42   | 50   | 47   | 43   | 29   | 50   |
| 8     |      | 36  | 48   | 52   | 53   | 55  | 59  | 61  | 59  | 55  | 52  | 52  | 53  | 55  | 58  | 58  | 55  | 55  | 55  | 56  | 57   | 55   | 28   | 26   | 37   | 51   |
| 9     |      | 14  | 11   | 36   | 48   | 51  | 54  | 55  | 54  | 50  | 48  | 48  | 49  | 54  | 57  | 56  | 53  | 54  | 54  | 54  | 54   | 54   | 54   | 53   | 53   | 49   |
| 10    | Q    | 53  | 53   | 53   | 54   | 55  | 56  | 56  | 54  | 50  | 47  | 44  | 47  | 52  | 54  | 55  | 53  | 53  | 53  | 53  | 53   | 53   | 52   | 50   | 52   | 52   |
| 11    | Q    | 52  | 53   | 54   | 53   | 55  | 58  | 58  | 57  | 54  | 51  | 48  | 48  | 54  | 58  | 57  | 54  | 54  | 53  | 54  | 54   | 54   | 53   | 52   | 52   | 54   |
| 12    | Q    | 53  | 52   | 52   | 53   | 53  | 56  | 57  | 57  | 52  | 48  | 44  | 44  | 48  | 53  | 55  | 57  | 57  | 59  | 59  | 58   | 56   | 52   | 50   | 47   | 53   |
| 13    |      | 34  | 32   | 36   | 36   | 39  | 45  | 48  | 50  | 47  | 44  | 46  | 47  | 48  | 57  | 67  | 91  | 125 | 102 | 72  | 58   | 51   | 37   | 21   | -19  | 51   |
| 14    | D    | -2  | 37   | 49   | 52   | 53  | 52  | 47  | 54  | 61  | 74  | 88  | 94  | 114 | 138 | 147 | 89  | 99  | 118 | 67  | 40   | 26   | -159 | -180 | -84  | 45   |
| 15    |      | 51  | 59   | 61   | 65   | 64  | 52  | 68  | 80  | 101 | 108 | 118 | 138 | 95  | 120 | 121 | 117 | 89  | 75  | 77  | 3    | -1   | -37  | -72  | 6    | 65   |
| 16    |      | -4  | -21  | -10  | 27   | 53  | 60  | 63  | 62  | 60  | 71  | 91  | 104 | 99  | 99  | 133 | 93  | 94  | 68  | 35  | 61   | 37   | 42   | 35   | -26  | 55   |
| 17    |      | -30 | 25   | 31   | 39   | 24  | 27  | 35  | 48  | 68  | 86  | 76  | 92  | 116 | 92  | 95  | 88  | 86  | 71  | 70  | 67   | 39   | 26   | -28  | -1   | 52   |
| 18    |      | 35  | 29   | 39   | 41   | 41  | 40  | 41  | 49  | 59  | 65  | 69  | 77  | 87  | 127 | 102 | 91  | 112 | 91  | 70  | 63   | 45   | 46   | 27   | 11   | 61   |
| 19    |      | 30  | 32   | 31   | 34   | 38  | 42  | 47  | 56  | 66  | 81  | 83  | 97  | 107 | 134 | 142 | 110 | 107 | 132 | 67  | 25   | -3   | -68  | -37  | -11  | 56   |
| 20    |      | 1   | 26   | 56   | 60   | 68  | 73  | 77  | 69  | 72  | 99  | 87  | 78  | 91  | 104 | 117 | 142 | 125 | 102 | 95  | 70   | -43  | -86  | -33  | -35  | 59   |
| 21    | D    | 7   | -79  | -22  | 28   | 45  | 55  | 70  | 78  | 69  | 72  | 89  | 103 | 142 | 176 | 182 | 132 | 193 | 43  | 38  | -7   | -25  | -157 | -117 | -28  | 45   |
| 22    |      | -36 | -36  | 8    | -6   | 35  | 45  | 58  | 79  | 85  | 81  | 88  | 105 | 96  | 86  | 83  | 92  | 156 | 123 | 91  | 75   | 71   | 67   | 66   | 66   | 66   |
| 23    | Q    | 64  | 63   | 65   | 64   | 63  | 63  | 66  | 65  | 63  | 57  | 57  | 60  | 63  | 64  | 63  | 62  | 63  | 63  | 63  | 63   | 63   | 62   | 62   | 61   | 63   |
| 24    |      | 61  | 61   | 60   | 60   | 59  | 60  | 64  | 64  | 60  | 56  | 57  | 69  | 88  | 147 | 159 | 205 | 162 | 152 | 142 | 143  | 67   | 71   | 79   | 68   | 92   |
| 25    |      | 65  | 68   | 56   | 59   | 59  | 63  | 67  | 69  | 66  | 61  | 61  | 62  | 71  | 86  | 135 | 120 | 100 | 81  | 77  | 72   | 74   | 70   | 61   | 66   | 74   |
| 26    |      |     |      | 70   | 70   | 68  | 67  | 69  | 70  | 67  | 68  | 70  | 68  | 68  | 66  | 65  | 65  | 64  | 64  | 64  | 68   | 80   | 53   | 47   | 26   | (64) |
| 27    |      | 21  | 35   | 50   | 45   | 40  | 50  | 53  | 54  | 54  | 54  | 54  | 63  | 70  | 74  | 74  | 74  | 78  | 79  | 76  | 70   | 67   | 67   | 66   | 64   | 60   |
| 28    |      | 64  | 64   | 62   | 53   | 68  | 65  | 58  | 57  | 53  | 51  | 63  | 74  | 75  | 75  | 75  | 87  | 99  | 77  | 85  | 76   | 51   | 61   | 38   | -77  | 61   |
| 29    | D    | -65 | -10  | 17   | 48   | 57  | 58  | 67  | 284 | 66  | 102 | 98  | 85  | 125 | 184 | 293 | 383 | 293 | -61 | 74  | -78  | -76  | -37  | 20   | -406 | 63   |
| 30    | D    | 11  | -432 | -614 | -198 | 95  | 123 | 136 | 119 | 110 | 107 | 105 | 115 | 138 | 175 | 188 | 185 | 125 | 73  | 141 | -428 | -409 | -195 | 289  | 145  | 4    |
| 31    | D    | 308 | 72   | -6   | 139  | 164 | 134 | 104 | 97  | 89  | 98  | 108 | 102 | 106 | 137 | 128 | 132 | 147 | 112 | 119 | 108  | 54   | 34   | 28   | 30   | 106  |
| All   |      | 36  | 18   | 19   | 42   | 56  | 58  | 61  | 70  | 63  | 66  | 68  | 73  | 79  | 91  | 99  | 98  | 97  | 73  | 72  | 39   | 27   | 14   | 29   | 13   | 57   |
| Quiet |      | 55  | 55   | 56   | 56   | 56  | 57  | 58  | 57  | 55  | 52  | 49  | 50  | 55  | 58  | 57  | 56  | 56  | 57  | 57  | 56   | 56   | 55   | 54   | 53   | 55   |
| Dist. |      | 52  | -82  | -115 | 14   | 83  | 84  | 85  | 126 | 79  | 91  | 97  | 100 | 125 | 162 | 187 | 184 | 171 | 57  | 88  | -73  | -86  | -103 | 8    | -69  | 53   |

| Day   | Char | 1    | 2   | 3    | 4    | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | Mean |
|-------|------|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| 1     |      | -69  | -27 | -35  | -28  | -13 | -17 | -33 | -35 | -38 | -45 | -35 | -16 | -13 | -13 | -1  | 2   | -8   | -14  | -8   | -17  | -44  | -48  | -13  | -24  | -25  |
| 2     |      | -21  | -20 | -14  | -10  | -20 | -14 | -15 | -25 | -35 | -43 | -45 | -31 | -17 | -1  | -9  | -13 | -18  | -8   | -17  | -25  | -17  | -12  | -10  | -20  | -19  |
| 3     |      | -29  | -18 | -24  | -22  | -8  | -14 | -14 | -22 | -35 | -45 | -56 | -31 | -21 | -15 | -7  | -6  | -5   | 0    | -1   | 4    | 2    | -9   | -19  | -18  | -17  |
| 4     |      | -20  | -7  | -9   | -7   | -8  | -2  | -2  | -36 | 7   | 37  | -13 | -43 | -44 | -41 | -40 | -39 | -35  | -32  | -28  | -26  | -17  | -17  | -26  | -28  | -20  |
| 5     | Q    | -25  | -23 | -22  | -19  | -18 | -16 | -18 | -25 | -29 | -30 | -28 | -20 | -17 | -16 | -14 | -15 | -10  | -8   | -11  | -7   | -8   | 2    | -16  | -19  | -17  |
| 6     |      | -24  | -15 | -19  | -15  | -10 | -6  | -3  | -12 | -22 | -28 | -28 | -21 | -14 | -13 | -8  | -3  | -4   | -10  | -10  | 15   | 7    | -37  | -58  | -19  | -15  |
| 7     |      | -25  | -26 | -20  | -8   | -2  | 0   | -2  | -7  | -17 | -27 | -23 | -16 | -7  | -10 | -6  | -7  | -2   | -4   | -7   | -8   | -6   | -1   | -5   | 0    | -10  |
| 8     | Q    | -6   | -9  | -7   | -3   | 1   | 4   | 1   | -6  | -14 | -19 | -19 | -8  | 1   | 5   | 6   | -15 | -6   | -3   | -21  | -20  | -12  | -3   | -5   | -7   | -7   |
| 9     |      | -7   | -8  | -15  | -3   | 7   | 8   | 2   | -8  | -39 | -40 | -25 | -20 | -7  | -34 | -40 | -28 | -18  | -23  | 16   | -56  | -22  | -18  | -15  | -19  | -17  |
| 10    |      | -26  | -21 | -28  | -23  | -10 | -7  | -5  | -12 | -32 | -53 | -36 | -25 | -25 | -12 | -21 | -21 | -17  | -15  | -8   | -59  | -60  | -52  | -77  | -53  | -29  |
| 11    | D    | -66  | -38 | -34  | -25  | -19 | -18 | -4  | -21 | -81 | -89 | -44 | -3  | -11 | 4   | -5  | 16  | -31  | -28  | -40  | -50  | -65  | -53  | -60  | -69  | -35  |
| 12    |      | -65  | -51 | -26  | -9   | -13 | -23 | -29 | -33 | -41 | -46 | -43 | -30 | -18 | -21 | -16 | -27 | -15  | -17  | -56  | -45  | -19  | -20  | -21  | -20  | -29  |
| 13    | D    | -34  | -28 | -29  | -15  | -17 | -16 | -14 | -15 | -43 | -59 | -22 | -12 | -39 | 5   | -11 | -29 | -20  | -14  | -18  | -68  | -44  | -61  | -141 | -82  | -34  |
| 14    |      | -62  | -48 | -21  | -22  | -26 | -26 | -26 | -24 | -31 | -48 | -44 | -38 | -12 | -28 | -11 | -19 | -18  | -28  | -34  | -84  | -50  | -39  | -27  | -17  | -33  |
| 15    | D    | -21  | -20 | -17  | -18  | -22 | -9  | -41 | -19 | -35 | -38 | -20 | -13 | -25 | -10 | -7  | -27 | 28   | -9   | -32  | -36  | -29  | -13  | -40  | -60  | -22  |
| 16    | D    | -24  | -19 | -27  | -43  | -31 | -10 | -18 | -33 | -72 | -55 | -31 | -24 | -37 | -17 | -9  | 9   | -26  | -34  | -43  | -31  | -32  | -17  | -24  | -70  | -30  |
| 17    |      | -77  | -45 | -51  | -31  | -32 | -16 | -26 | -23 | -42 | -45 | -35 | -28 | -21 | -18 | -28 | -10 | -25  | -11  | -30  | -22  | -19  | -35  | -41  | -18  | -30  |
| 18    |      | -25  | -63 | -43  | -13  | -9  | -10 | -13 | -14 | -24 | -41 | -45 | -40 | -31 | -14 | -18 | -17 | -19  | 1    | -4   | -17  | -16  | -11  | -18  | -22  | -22  |
| 19    |      | -13  | -14 | -14  | -13  | -7  | -9  | -20 | -31 | -36 | -31 | -30 | -30 | -22 | -20 | -12 | -15 | 2    | -13  | 7    | -10  | -6   | -4   | -5   | -5   | -15  |
| 20    | D    | -6   | -6  | -4   | -7   | -6  | -6  | -11 | -25 | -18 | -3  | -13 | -7  | 118 | 90  | 492 | 278 | -414 | -584 | -539 | -453 | -241 | -308 | -527 | -363 | -107 |
| 21    |      | -305 | -81 | -107 | -108 | -76 | -74 | -76 | -89 | -88 | -76 | -70 | -67 | -57 | -63 | -55 | -47 | -48  | -47  | -47  | -45  | -34  | -34  | -43  | -36  | -74  |
| 22    |      | -44  | -39 | -49  | -42  | -38 | -34 | -32 | -36 | -36 | -35 | -27 | -29 | -31 | -20 | -12 | -36 | -4   | -44  | -57  | -138 | -104 | -86  | -117 | -74  | -49  |
| 23    |      | -30  | -34 | -48  | -59  | -44 | -50 | -32 | -33 | -26 | -33 | -33 | -29 | -19 | -25 | -29 | -20 | -19  | -16  | -16  | -21  | -12  | -32  | -28  | -17  | -29  |
| 24    |      | -22  | -20 | -19  | -22  | -21 | -17 | -16 | -16 | -14 | -14 | -15 | -19 | -13 | -6  | -30 | -26 | -16  | -13  | -4   | -12  | -13  | -29  | -8   | -22  | -17  |
| 25    |      | -30  | -25 | -19  | -17  | -17 | -15 | -12 | -13 | -16 | -23 | -24 | -19 | -31 | -19 | -15 | -22 | -12  | -30  | -15  | -5   | -6   | -7   | -16  | -12  | -18  |
| 26    |      | -12  | -20 | -21  | -17  | -13 | -13 | -10 | -14 | -18 | -22 | -21 | -19 | -13 | -21 | -16 | -12 | -20  | -12  | -10  | -1   | 3    | -12  | -5   | -9   | -14  |
| 27    | Q    | -10  | -8  | -10  | -11  | -10 | -11 | -9  | -11 |     | -21 | -20 | -15 | -10 | -9  | -8  | -8  | -7   | -6   | -5   | -3   | -5   | -9   | -6   | -6   | (-9) |
| 28    | Q    | -8   | -9  | -11  | -11  | -8  | -6  | -5  | -11 | -15 | -20 | -17 | -10 | -7  | -18 | -14 | -8  | -5   | -8   | -6   | -4   | -3   | -3   | -5   | -7   | -9   |
| 29    | Q    | -5   | -8  | -14  | -9   | -11 | -12 | -12 | -16 | -21 | -24 | -23 | -17 | -13 | -16 | -11 | -10 | -7   | -3   | -3   | -4   | -2   | 2    | -3   | -6   | -10  |
| 30    |      | -7   | -11 | -6   | -7   | 0   | 6   | 5   | 5   | 1   | -5  | -9  | -6  | 0   | -1  | 3   | -7  | -18  | -40  | -29  | -27  | -32  | -27  | -25  | -13  | -11  |
|       |      |      |     |      |      |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |
| All   |      | -37  | -25 | -25  | -21  | -17 | -14 | -16 | -22 | -31 | -34 | -30 | -23 | -15 | -13 | 2   | -6  | -27  | -36  | -36  | -42  | -30  | -33  | -47  | -38  | -26  |
| Quiet |      | -11  | -11 | -13  | -11  | -9  | -8  | -8  | -13 | -20 | -23 | -22 | -14 | -9  | -11 | -8  | -11 | -7   | -6   | -9   | -8   | -6   | -2   | -7   | -9   | -11  |
| Dist. |      | -30  | -22 | -22  | -21  | -19 | -12 | -18 | -23 | -50 | -49 | -26 | -12 | 1   | 14  | 92  | 50  | -93  | -134 | -134 | -127 | -82  | -91  | -158 | -129 | -46  |

November 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1   | 2   | 3  | 4  | 5  | 6  | 7   | 8  | 9  | 10 | 11  | 12  | 13  | 14 | 15  | 16  | 17   | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|----|----|----|----|-----|----|----|----|-----|-----|-----|----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|
| 1     |      | 77  | 67  | 65 | 59 | 63 | 54 | 62  | 63 | 51 | 33 | 28  | 28  | 28  | 33 | 57  | 71  | 58   | 48  | 59  | 104 | 107 | 54  | 71  | 83  | 59   |
| 2     |      | 87  | 59  | 52 | 58 | 57 | 51 | 51  | 55 | 54 | 33 | 24  | 20  | 23  | 22 | 15  | 27  | 28   | 41  | 49  | 97  | 56  | 70  | 65  | 83  | 49   |
| 3     |      | 75  | 56  | 48 | 40 | 43 | 49 | 58  | 56 | 52 | 40 | 29  | 21  | 22  | 27 | 34  | 38  | 40   | 43  | 45  | 55  | 59  | 54  | 49  | 58  | 46   |
| 4     |      | 58  | 45  | 52 | 45 | 51 | 50 | 65  | 68 | 57 | 82 | 53  | 29  | 21  | 31 | 40  | 44  | 47   | 47  | 46  | 62  | 70  | 64  | 62  | 56  | 52   |
| 5     | Q    | 49  | 47  | 48 | 47 | 48 | 49 | 51  | 54 | 52 | 45 | 40  | 37  | 39  | 41 | 41  | 40  | 39   | 38  | 47  | 47  | 54  | 47  | 43  | 66  | 46   |
| 6     |      | 46  | 54  | 48 | 54 | 53 | 58 | 58  | 58 | 55 | 48 | 43  | 37  | 35  | 39 | 49  | 41  | 40   | 38  | 45  | 55  | 23  | 112 | 89  | 64  | 52   |
| 7     |      | 47  | 44  | 34 | 51 | 48 | 51 | 54  | 54 | 47 | 40 | 35  | 29  | 28  | 27 | 31  | 32  | 38   | 48  | 57  | 52  | 50  | 45  | 48  | 54  | 44   |
| 8     | Q    | 51  | 48  | 45 | 45 | 44 | 44 | 45  | 46 | 45 | 40 | 33  | 27  | 25  | 30 | 28  | 57  | 41   | 36  | 52  | 79  | 67  | 53  | 52  | 44  | 45   |
| 9     |      | 42  | 44  | 38 | 30 | 34 | 38 | 46  | 46 | 44 | 36 | 19  | 23  | 35  | 79 | 45  | 19  | 37   | 71  | 129 | 91  | 80  | 73  | 49  | 49  | 50   |
| 10    |      | 54  | 34  | 42 | 38 | 32 | 35 | 36  | 39 | 41 | 43 | 43  | 25  | 35  | 20 | 20  | 40  | 41   | 57  | 151 | 111 | 91  | 92  | 88  | 89  | 54   |
| 11    | D    | 121 | 76  | 39 | 58 | 47 | 9  | 24  | 36 | 42 | 53 | 32  | 37  | 56  | 41 | 58  | 90  | 104  | 77  | 120 | 82  | 88  | 51  | 87  | 43  | 61   |
| 12    |      | 27  | 28  | 17 | 43 | 47 | 44 | 36  | 31 | 31 | 42 | 49  | 34  | 31  | 53 | 62  | 65  | 174  | 86  | 106 | 109 | 90  | 68  | 47  | 33  | 56   |
| 13    | D    | 14  | 33  | 16 | 43 | 40 | 43 | 44  | 47 | 46 | 50 | 41  | 9   | 70  | 20 | 75  | 28  | 39   | 94  | 42  | 140 | 103 | 111 | 20  | 77  | 52   |
| 14    |      | 80  | 32  | 39 | 51 | 32 | 25 | 35  | 36 | 32 | 35 | 36  | 66  | 42  | 50 | 70  | 37  | 46   | 71  | 121 | 91  | 92  | 87  | 49  | 59  | 55   |
| 15    | D    | 68  | 56  | 50 | 47 | 41 | 42 | 7   | 16 | 34 | 38 | 36  | 38  | 58  | 41 | 97  | 47  | 115  | 96  | 78  | 92  | 70  | 100 | 86  | 74  | 59   |
| 16    | D    | 90  | 76  | 58 | 44 | 36 | 44 | 44  | 48 | 46 | 39 | 34  | 36  | 49  | 37 | 74  | 145 | 48   | 85  | 112 | 80  | 67  | 78  | 72  | 68  | 63   |
| 17    |      | 29  | 26  | 17 | 18 | 15 | 2  | -14 | 26 | 34 | 45 | 38  | 56  | 48  | 44 | 118 | 71  | 60   | 94  | 79  | 79  | 62  | 71  | 69  | 72  | 48   |
| 18    |      | 72  | 39  | 30 | 47 | 48 | 43 | 46  | 54 | 52 | 45 | 42  | 33  | 29  | 44 | 54  | 60  | 40   | 63  | 69  | 65  | 54  | 46  | 40  | 37  | 48   |
| 19    |      | 44  | 44  | 43 | 47 | 47 | 48 | 49  | 47 | 48 | 45 | 37  | 51  | 39  | 28 | 45  | 49  | 68   | 55  | 78  | 47  | 46  | 46  | 47  | 48  | 48   |
| 20    | D    | 46  | 43  | 44 | 46 | 23 | 15 | 30  | 51 | 64 | 32 | 27  | 33  | -14 | 90 | 28  | -12 | -271 | 143 | 118 | 157 | 178 | 178 | 312 | 242 | 67   |
| 21    |      | 157 | 79  | 57 | 73 | 70 | 66 | 62  | 54 | 69 | 73 | 70  | 64  | 53  | 55 | 57  | 48  | 46   | 53  | 57  | 59  | 66  | 88  | 73  | 62  | 67   |
| 22    |      | 59  | 109 | 96 | 67 | 64 | 59 | 56  | 54 | 56 | 51 | 42  | 34  | 37  | 37 | 27  | 62  | 40   | 92  | 79  | 81  | 65  | 98  | 138 | 112 | 67   |
| 23    |      | 75  | 61  | 75 | 63 | 74 | 50 | 47  | 51 | 53 | 51 | 49  | 42  | 38  | 30 | 46  | 33  | 42   | 44  | 44  | 61  | 114 | 88  | 67  | 56  | 56   |
| 24    |      | 56  | 51  | 55 | 50 | 49 | 51 | 50  | 48 | 46 | 40 | 39  | 37  | 34  | 31 | 41  | 46  | 29   | 40  | 66  | 55  | 78  | 75  | 56  | 54  | 49   |
| 25    |      | 57  | 34  | 59 | 54 | 60 | 39 | 45  | 45 | 39 | 41 | 36  | 31  | 35  | 38 | 28  | 25  | 93   | 50  | 48  | 60  | 55  | 53  | 62  | 84  | 49   |
| 26    |      | 87  | 74  | 50 | 56 | 56 | 56 | 51  | 51 | 53 | 53 | 49  | 44  | 35  | 35 | 39  | 34  | 43   | 46  | 46  | 59  | 62  | 55  | 49  | 56  | 52   |
| 27    | Q    | 55  | 53  | 53 | 48 | 47 | 47 | 49  | 50 |    | 44 | 36  | 33  | 33  | 34 | 38  | 41  | 41   | 41  | 44  | 46  | 66  | 57  | 48  | 49  | (46) |
| 28    | Q    | 50  | 50  | 51 | 44 | 49 | 48 | 49  | 49 | 47 | 41 | 34  | 27  | 28  | 35 | 27  | 40  | 39   | 39  | 44  | 46  | 48  | 49  | 51  | 51  | 43   |
| 29    | Q    | 50  | 55  | 56 | 56 | 49 | 49 | 51  | 52 | 55 | 49 | 41  | 33  | 27  | 34 | 39  | 39  | 42   | 42  | 42  | 43  | 45  | 57  | 58  | 50  | 46   |
| 30    |      | 50  | 54  | 57 | 56 | 50 | 47 | 44  | 45 | 43 | 38 | 33  | 27  | 26  | 30 | 24  | 31  | 4    | 42  | 71  | 81  | 88  | 86  | 73  | 85  | 49   |
| A 11  |      | 20  | 50  | 10 | 10 |    |    |     | 40 | 10 |    | 0.0 | 0.5 | 0.5 | 00 |     | 10  | 10   | 0.1 |     | F/1 | 70  | 70  |     | 20  |      |
| All   |      | 62  | 52  | 48 | 49 | 47 | 44 | 44  | 48 | 48 | 45 | 38  | 35  | 35  | 38 | 47  | 46  | 42   | 61  | 71  | 76  | 73  | 73  | 71  | 69  | 53   |
| Quiet |      | 51  | 51  | 50 | 48 | 47 | 47 | 49  | 50 | 50 | 44 | 37  | 31  | 31  | 35 | 35  | 44  | 40   | 39  | 46  | 52  | 56  | 53  | 50  | 52  | 45   |
| Dist. |      | 68  | 57  | 41 | 47 | 37 | 31 | 30  | 39 | 46 | 42 | 34  | 31  | 44  | 46 | 66  | 60  | 7    | 99  | 94  | 110 | 101 | 104 | 115 | 101 | 60   |

November 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16   | 17   | 18  | 19   | 20  | 21  | 22  | 23   | 24  | Mean |
|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|------|-----|------|
| 1     |      | -18 | 47  | 56  | 41  | 51  | 62  | 70  | 84  | 82  | 81  | 84  | 91  | 90  | 100 | 105 | 95   | 88   | 91  | 79   | 75  | 62  | 17  | 34   | 45  | 67   |
| 2     |      | 42  | 54  | 68  | 75  | 70  | 76  | 79  | 79  | 76  | 72  | 75  | 75  | 90  | 92  | 94  | 106  | 111  | 116 | 93   | 55  | 75  | 75  | 60   | 48  | 77   |
| 3     |      | 35  | 31  | 51  | 49  | 59  | 67  | 78  | 78  | 77  | 71  | 68  | 71  | 75  | 80  | 80  | 80   | 76   | 77  | 75   | 73  | 59  | 65  | 53   | 9   | 64   |
| 4     | _    | 28  | 58  | 64  | 68  | 66  | 67  | 67  | 56  | 53  | 82  | 164 | 94  | 87  | 86  | 87  | 85   | 85   | 84  | 85   | 94  | 84  | 70  | 70   | 69  | 77   |
| 5     | Q    | 74  | 78  | 79  | 77  | 75  | 74  | 72  | 71  | 69  | 69  | 66  | 68  | 71  | 72  | 73  | 72   | 73   | 76  | 81   | 77  | 68  | 45  | 14   | 34  | 68   |
| 6     |      | 40  | 55  | 67  | 67  | 69  | 70  | 71  | 72  | 72  | 72  | 71  | 72  | 76  | 78  | 80  | 77   | 76   | 82  | 83   | 71  | -37 | -34 | -25  | 25  | 56   |
| 7     |      | 43  | 45  | 62  | 60  | 66  | 67  | 67  | 69  | 68  | 69  | 71  | 72  | 74  | 74  | 75  | 74   | 74   | 76  | 79   | 78  | 76  | 72  | 69   | 65  | 69   |
| 8     | Q    | 62  | 65  | 66  | 66  | 66  | 66  | 66  | 66  | 65  | 63  | 63  | 63  | 63  | 63  | 67  | 88   | 75   | 75  | 83   | 67  | 57  | 58  | 57   | 57  | 66   |
| 9     |      | 61  | 61  | 56  | 56  | 58  | 61  | 64  | 65  | 69  | 77  | 73  | 74  | 82  | 132 | 162 | 98   | 92   | 104 | 43   | 27  | 71  | 37  | 14   | 34  | 70   |
| 10    |      | 37  | 38  | 38  | 47  | 63  | 69  | 69  | 70  | 71  | 76  | 75  | 86  | 91  | 94  | 147 | 144  | 117  | 113 | 126  | 52  | 16  | -42 | -141 | -92 | 57   |
| 11    | D    | -96 | -45 | 22  | 37  | 45  | 48  | 56  | 66  | 75  | 112 | 112 | 164 | 155 | 197 | 178 | 224  | 160  | 134 | 42   | 67  | -62 | -23 | 0    | -8  | 69   |
| 12    |      | -3  | 3   | 10  | 44  | 55  | 68  | 73  | 78  | 78  | 87  | 100 | 84  | 87  | 92  | 90  | 95   | 109  | 66  | 33   | 2   | 33  | 69  | 57   | 40  | 60   |
| 13    | D    | 21  | 20  | 38  | 63  | 56  | 64  | 66  | 73  | 75  | 86  | 80  | 90  | 159 | 144 | 193 | 148  | 174  | 137 | -31  | 26  | 47  | -4  | -110 | -92 | 63   |
| 14    |      | -44 | 13  | 44  | 44  | 43  | 53  | 69  | 71  | 78  | 83  | 93  | 125 | 134 | 150 | 111 | 85   | 85   | 95  | 78   | -11 | -24 | -7  | -27  | 28  | 57   |
| 15    | D    | 45  | 58  | 65  | 60  | 57  | 60  | 65  | 77  | 88  | 96  | 89  | 117 | 122 | 130 | 189 | 136  | 211  | 103 | 117  | 86  | -8  | 16  | 13   | -41 | 81   |
| 16    | D    | 14  | 30  | 38  | 36  | 48  | 67  | 70  | 80  | 94  | 88  | 96  | 106 | 101 | 104 | 133 | 104  | 111  | 122 | 105  | 76  | 62  | -14 | -24  | -1  | 69   |
| 17    |      | -28 | -38 | -1  | 27  | 45  | 47  | 56  | 74  | 85  | 91  | 100 | 127 | 96  | 114 | 135 | 165  | 122  | 106 | 40   | 69  | 43  | -1  | -52  | -4  | 59   |
| 18    |      | 13  | -9  | -6  | 49  | 58  | 69  | 73  | 79  | 79  | 78  | 89  | 92  | 97  | 113 | 103 | 95   | 88   | 70  | 43   | 70  | 55  | 41  | 43   | 29  | 63   |
| 19    |      | 47  | 61  | 65  | 67  | 66  | 65  | 68  | 73  | 74  | 73  | 77  | 83  | 84  | 83  | 84  | 84   | 77   | 81  | 69   | 68  | 68  | 67  | 67   | 66  | 72   |
| 20    | D    | 66  | 66  | 65  | 64  | 55  | 49  | 55  | 64  | 77  | 87  | 150 | 138 | 252 | 259 | 42  | -403 | -438 | 23  | -127 | 52  | 79  | 113 | 80   | 2   | 36   |
| 21    |      | 81  | 145 | 181 | 151 | 131 | 116 | 127 | 116 | 119 | 122 | 115 | 113 | 117 | 113 | 110 | 111  | 124  | 124 | 106  | 115 | 115 | 95  | 92   | 94  | 118  |
| 22    |      | 90  | 66  | 48  | 91  | 92  | 92  | 89  | 89  | 91  | 87  | 86  | 86  | 85  | 92  | 99  | 169  | 191  | 71  | 112  | 52  | 27  | 14  | -11  | 25  | 81   |
| 23    |      | 73  | 88  | 70  | 61  | 71  | 60  | 63  | 74  | 76  | 82  | 86  | 87  | 94  | 96  | 105 | 96   | 91   | 89  | 90   | 98  | 90  | 64  | 72   | 75  | 81   |
| 24    |      | 85  | 82  | 73  | 81  | 83  | 81  | 79  | 80  | 80  | 75  | 75  | 79  | 83  | 85  | 100 | 96   | 93   | 95  | 89   | 87  | 92  | 78  | 62   | 81  | 83   |
| 25    |      | 79  | 78  | 74  | 80  | 75  | 68  | 73  | 79  | 81  | 82  | 81  | 83  | 86  | 88  | 87  | 105  | 111  | 99  | 90   | 76  | 69  | 65  | 66   | 73  | 81   |
| 26    |      | 73  | 73  | 75  | 77  | 77  | 75  | 75  | 76  | 76  | 75  | 75  | 75  | 79  | 81  | 82  | 82   | 89   | 85  | 83   | 81  | 71  | 72  | 69   | 63  | 77   |
| 27    | Q    | 71  | 73  | 72  | 74  | 74  | 75  | 74  | 73  |     | 73  | 75  | 74  | 76  | 77  | 76  | 75   | 74   | 75  | 75   | 76  | 76  | 72  | 73   | 73  | (74) |
| 28    | Q    | 72  | 72  | 70  | 69  | 72  | 73  | 71  | 70  | 71  | 71  | 70  | 73  | 76  | 84  | 81  | 79   | 78   | 78  | 77   | 74  | 72  | 72  | 71   | 72  | 74   |
| 29    | Q    | 70  | 66  | 64  | 69  | 73  | 74  | 74  | 72  | 74  | 73  | 71  | 72  | 75  | 78  | 76  | 75   | 75   | 74  | 74   | 75  | 73  | 67  | 62   | 64  | 72   |
| 30    |      | 67  | 68  | 67  | 67  | 66  | 66  | 65  | 66  | 67  | 67  | 69  | 70  | 71  | 74  | 71  | 87   | 113  | 167 | 145  | 84  | 73  | 90  | 76   | 58  | 80   |
| All   |      | 40  | 50  | 58  | 64  | 66  | 68  | 71  | 75  | 77  | 81  | 87  | 90  | 98  | 104 | 104 | 88   | 87   | 93  | 71   | 66  | 53  | 44  | 29   | 33  | 71   |
| Quiet |      | 70  | 71  | 70  | 71  | 72  | 72  | 71  | 70  | 70  | 69  | 69  | 70  | 72  | 75  | 75  | 78   | 75   | 76  | 78   | 74  | 69  | 63  | 56   | 60  | 71   |
| Dist. |      | 10  | 26  | 46  | 52  | 52  | 58  | 62  | 72  | 82  | 94  | 106 | 123 | 158 | 167 | 147 | 42   | 44   | 104 | 21   | 62  | 23  | 17  | -8   | -28 | 64   |

| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | Day   | Char | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean |
|--|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | -     |      | -19 | -27 | -27 | -20 | -17 | -12 | -15 | -19 | -25 | -23 | -17 | -15 | -10 | -10 | -9  | -11 | -13 | -7  | -9  | -7  | -7  | -7  |     | -3  | -14  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     |     |     |     |     |     | -9  |     |     |     |     |     |     |     | -2  |     |     |     |     |     |     |     |     |     | -7   |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 3     | Q    |     | -10 |     |     |     | -5  | -4  |     |     |     |     |     | -14 |     |     |     | 0   | -5  |     | -3  | -7  |     | -13 |     | -8   |
| 6  |       |      |     |     |     |     | -3  |     |     | -5  |     |     |     |     |     |     |     |     |     | 7   |     |     |     |     |     |     | -3   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 5     | D    | -16 | -15 | 0   | 5   | -4  | -8  | -17 | -4  | -17 | -22 | -29 | -41 | -50 | -22 | 11  | -23 | -48 | -34 | -33 | -42 | -37 | -48 | -78 | -27 | -25  |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | 6     |      | -32 | -30 | -70 | -35 | -22 | -8  | -13 | -25 | -33 | -36 | -39 | -29 | -30 | -35 | -34 | -36 | -29 | -35 | -40 | -25 | -23 | -15 | -18 | -18 | -30  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 7     |      | -17 | -17 | -16 | -15 | -13 | -7  | -3  | -10 | -19 | -17 | -16 | -14 | -21 | -19 | -16 | -25 | -34 | -39 | -43 | -29 | -24 | -32 | -12 | -16 | -20  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 8     | D    | -19 | -12 | -10 | -16 | -17 | 8   | -2  | -13 | -20 | -17 | -34 | -21 | -19 | -14 | -18 | -22 | -55 | -41 | -37 | -43 | -70 | -63 | -79 | -30 | -28  |
| 11 D 98 32 23 -17 -24 -24 -22 -15 -23 -34 -21 -19 -16 -39 -18 -23 -19 -4 -21 -17 6 -21 -50 -4 12 20 -23 -22 -6 -8 -15 -19 -14 -16 -16 -10 -6 -12 -8 -33 -27 -26 -19 -9 -16 -5 -19 -6 -10 13 -4 -27 -24 -22 -15 -12 -14 -13 -16 -21 -24 -22 -21 -15 -44 -48 -23 -7 -26 -19 -9 -16 -5 -19 -6 -10 14 -43 -20 -12 -19 -13 -2 -6 -12 -15 -21 -27 -23 -11 -30 -14 -23 -17 -10 -45 -37 -27 -24 -32 -11 -11 -11 -13 -16 -10 -10 -10 -10 -10 -10 -20 -10 -10 -10 -45 -37 -27 -27 -24 -38 -48 -48 -48 -48 -48 -48 -48 -48 -48 -4   | 9     |      |     |     | -21 | -6  | -18 | -13 | -23 |     |     |     | -29 |     |     |     |     | -41 |     | -31 | -5  |     |     | -4  | -37 |     | -23  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 10    | D    | -23 | -69 | -8  | -2  | -14 | -9  | -19 | -23 | -26 | -32 | -49 | -34 | -21 | -13 | -13 | -14 | -34 | -46 | -62 | -33 | -27 | -49 | 3   | -39 | -27  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 11    | D    | -98 |     |     | -17 | -24 |     |     |     | -23 | -34 |     | -19 |     |     |     |     |     |     | -21 |     | 6   | -21 | -50 | -4  | -24  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -5  |     |     |     | -14  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -20  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -21  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 15    |      | -39 | -40 | -17 | -13 | 0   | -8  | -14 | -12 | -22 | -35 | -34 | -25 | -27 | -23 | -13 | -20 | -2  | 0   | -20 | -18 | -11 | -11 | -11 | -13 | -18  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -13  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     | -9  |     |     | -4  |     |     |     |     | -12 |     |     |     |     |     |     |     |     | -1  | -6  | -6  | -6  | -5  | -6  | -8   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       |      |     |     | -3  |     | -1  |     | -2  |     | -2  | -6  |     |     |     |     | -7  | -7  | -5  | -6  |     |     |     |     |     | -4  | -5   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  |       | Q    |     |     |     | 2   | -   |     | -   |     |     |     |     |     |     |     |     |     | -1  |     |     |     |     |     |     |     | -2   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 20    |      | -1  | 1   | 4   | 7   | 11  | 14  | 16  | 12  | 14  | 15  | 10  | 2   | 0   | -1  | -1  | -6  | 7   | 22  | -24 | -11 | -3  | -20 | -23 | -26 | 1    |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 21    |      | -17 | -25 |     | -12 | -13 |     |     |     | -25 |     |     |     |     |     |     | -27 |     |     | -10 |     | 6   | -10 |     | -14 | -15  |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 22    |      | -10 | -6  | -15 | -11 | -6  | -7  |     |     |     | -20 |     |     | -29 |     | -10 | -10 |     |     | -26 | -18 | -14 | -17 |     | -18 | -16  |
| 25 Q -15 -10 -7 -5 -3 0 0 0 -4 -7 -11 -13 -16 -14 4 -8 -6 -10 -2 1 1 -1 -1 -2 -3 -7 -7 -7 -11 -13 -16 -14 -4 -8 -6 -10 -2 1 1 1 -1 -2 -3 -7 -7 -7 -12 -13 -15 -12 -13 -15 -14 -8 -9 -8 -10 -10 -6 -5 -4 -3 -2 -1 2 -3 -1 -3 -5 -5 -7 -12 -11 -5 -1 8 -1 -5 -4 -5 -7 0 3 5 -6 4 -5 -7 -2 0 1 -2 -11 -5 -1 -5 4 -47 -28 -28 -31 -23 -22 -25 -24 -11 -14 -11 -13 -21 -17 -11 -8 -11 -7 -6 -6 -22 -22 -23 -13 -13 -6 -29 Q -10 -9 -9 -8 -9 -9 -9 -8 -4 -2 -2 -2 -2 -2 -1 -7 -15 -11 -20 -8 -5 -7 -7 -7 -11 -13 -13 -13 -10 -8 -6 -4 -4 -7 -2 -3 -6 -4 -3 -1 -2 -1 -1 1 -1 1 -1 -6 -6 -20 -9 -7 -13 -13 -13 -16 -11 -4 1 8 9 3 -3 -3 -3 -5 -9 -6 -9 -18 -22 -16 -40 -33 -31 -29 -21 -22 -30 -25 |       |      |     |     | -10 |     | -8  |     | -7  |     |     |     |     |     | -12 |     | -10 | -18 |     |     |     |     | -9  |     |     |     | -11  |
| 26   |       |      |     | -12 |     |     |     |     |     |     |     | -12 |     |     | -9  | -9  |     |     |     |     | -10 | -3  |     |     |     |     | -8   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 25    | Q    | -15 | -10 | -7  | -5  | -3  | 0   | 0   | -4  | -7  | -11 | -13 | -16 | -14 | -4  | -8  | -6  | -10 | -2  | 1   | 1   | -1  | -2  | -3  | -7  | -6   |
| 28   | 26    |      |     | -6  | -6  | -2  | -1  | 8   | -1  | -4  | -8  | -9  | -8  | -10 | -10 | -6  | -5  | -4  | -3  | -2  | -1  | 2   | -3  |     | -3  | -5  | -4   |
| 29 Q -10 -9 -9 -8 -9 -9 -9 -8 -4 -2 -2 -2 2 -1 -7 -15 -11 -20 -8 -5 -7 -7 -7 -11 30 -13 -10 -8 -6 -4 -4 -7 -2 -3 -6 -4 -3 -1 -2 -1 -1 1 -16 -6 -20 -9 -7 -13 31 -16 -11 -4 1 8 9 3 -3 -3 -3 -5 -9 -6 -9 -18 -22 -16 -40 -33 -31 -29 -21 -22 -30 -25  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -47 | -6   |
| 30   |       |      |     |     |     |     |     |     |     |     | -11 |     |     |     |     | -8  |     |     |     |     |     |     | 3   | -13 |     |     | -15  |
| 31 -16 -11 -4 1 8 9 3 -3 -3 -5 -9 -6 -9 -18 -22 -16 -40 -33 -31 -29 -21 -22 -30 -25  |       | Q    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -20 |     |     |     |     |     |     | -7   |
|  | 30    |      | -13 | -13 | -10 | -8  | -6  | -4  | -4  | -7  | -2  | -3  | -6  | -4  | -3  | -1  | -2  | -1  | -1  | 1   | -16 | -6  | -20 | -9  | -7  | -13 | -7   |
|  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -14  |
|  | All   |      | -19 | -17 | -13 | -9  | -8  | -5  | -7  | -9  | -13 | -16 | -18 | -16 | -14 | -12 | -11 | -15 | -15 | -13 | -17 | -13 | -11 | -14 | -20 | -15 | -13  |
| Quiet -8 -7 -6 -4 -3 -3 -2 -3 -5 -8 -10 -10 -9 -5 -5 -6 -5 -6 -3 -2 -4 -5 -6 -7  |       |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | -6   |
| Dist39 -30 -12 -7 -16 -9 -17 -15 -22 -28 -32 -28 -21 -12 -25 -36 -31 -32 -30 -31 -37 -48 -24   | Dist. |      | -39 | -30 | -12 | -7  | -16 | -9  | -17 | -15 | -22 | -28 | -32 | -28 | -28 | -21 | -12 | -25 | -36 | -31 | -32 | -30 | -31 | -37 | -48 | -24 | -25  |

December 2003 East component Y in nT (Y = 1600 nT + tabular values)

| Day   | Char | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15  | 16 | 17  | 18  | 19  | 20  | 21 | 22  | 23  | 24  | Mean |
|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|------|
| 1     |      | 61 | 68 | 67 | 48 | 48 | 60 | 56 | 56 | 54 | 53 | 43 | 33 | 31 | 38 | 41  | 36 | 44  | 44  | 44  | 49  | 50 | 51  | 53  | 79  | 50   |
| 2     |      | 66 | 52 | 55 | 52 | 53 | 53 | 43 | 43 | 43 | 36 | 35 | 33 | 33 | 32 | 37  | 38 | 39  | 42  | 45  | 48  | 49 | 53  | 50  | 49  | 45   |
| 3     | Q    | 49 | 53 | 49 | 49 | 50 | 51 | 50 | 52 | 49 | 43 | 41 | 38 | 36 | 40 | 40  | 39 | 49  | 37  | 43  | 49  | 52 | 60  | 64  | 65  | 48   |
| 4     |      | 55 | 50 | 46 | 48 | 50 | 51 | 51 | 48 | 47 | 43 | 38 | 33 | 31 | 33 | 37  | 37 | 38  | 38  | 41  | 42  | 69 | 60  | 56  | 85  | 47   |
| 5     | D    | 75 | 60 | 50 | 55 | 51 | 41 | 10 | 16 | 45 | 42 | 56 | 37 | 33 | 31 | 53  | 49 | 32  | 53  | 87  | 113 | 72 | 101 | 58  | 96  | 55   |
| 6     |      | 66 | 59 | 32 | 37 | 38 | 49 | 50 | 47 | 52 | 53 | 37 | 48 | 25 | 28 | 40  | 69 | 84  | 87  | 79  | 65  | 61 | 77  | 60  | 65  | 55   |
| 7     |      | 66 | 48 | 36 | 39 | 38 | 45 | 44 | 46 | 48 | 49 | 44 | 39 | 40 | 41 | 47  | 60 | 46  | 70  | 72  | 74  | 76 | 64  | 105 | 74  | 55   |
| 8     | D    | 64 | 54 | 45 | 34 | 13 | 22 | 28 | 36 | 47 | 47 | 37 | 15 | 29 | 40 | 43  | 49 | 100 | 105 | 75  | 177 | 81 | 97  | 54  | 48  | 56   |
| 9     | D    | 29 | 25 | 43 | 29 | 1  | 3  | 22 | 27 | 27 | 49 | 50 | 42 | 49 | 77 | 110 | 76 | 42  | 71  | 124 | 59  | 90 | 78  | 66  | 47  | 51   |
| 10    | D    | 46 | 30 | 19 | 38 | 38 | 32 | 29 | 24 | 29 | 45 | 39 | 32 | 37 | 53 | 74  | 75 | 160 | 108 | 70  | 89  | 96 | 39  | 84  | 39  | 55   |
| 11    | D    | 59 | 32 | 57 | 44 | 38 | 14 | 1  | 32 | 36 | 58 | 46 | 36 | 67 | 53 | 89  | 67 | 89  | 68  | 58  | 98  | 72 | 65  | 91  | 54  | 55   |
| 12    |      | 69 | 45 | 31 | 24 | 35 | 23 | 25 | 25 | 21 | 39 | 39 | 42 | 48 | 48 | 52  | 65 | 62  | 70  | 71  | 56  | 70 | 49  | 62  | 91  | 48   |
| 13    |      | 75 | 43 | 44 | 39 | 37 | 19 | 32 | 35 | 44 | 39 | 47 | 33 | 45 | 44 | 57  | 98 | 89  | 86  | 62  | 74  | 58 | 47  | 41  | 90  | 53   |
| 14    |      | 43 | 37 | 42 | 36 | 30 | 38 | 45 | 42 | 46 | 37 | 36 | 36 | 37 | 48 | 48  | 62 | 170 | 161 | 111 | 88  | 63 | 57  | 50  | 8   | 57   |
| 15    |      | 20 | 49 | 43 | 50 | 30 | 27 | 37 | 43 | 46 | 54 | 45 | 40 | 38 | 56 | 85  | 47 | 76  | 80  | 66  | 55  | 79 | 57  | 52  | 54  | 51   |
| 16    |      | 39 | 40 | 36 | 43 | 43 | 44 | 46 | 44 | 49 | 47 | 40 | 42 | 43 | 39 | 40  | 44 | 66  | 60  | 51  | 55  | 59 | 62  | 52  | 43  | 47   |
| 17    |      | 43 | 45 | 49 | 44 | 39 | 43 | 50 | 53 | 52 | 50 | 44 | 39 | 38 | 38 | 38  | 43 | 43  | 56  | 57  | 47  | 47 | 48  | 48  | 46  | 46   |
| 18    | Q    | 45 | 39 | 46 | 44 | 45 | 44 | 47 | 48 | 50 | 47 | 46 | 44 | 43 | 43 | 43  | 44 | 43  | 43  | 46  | 47  | 47 | 47  | 47  | 46  | 45   |
| 19    | Q    | 44 | 42 | 41 | 42 | 42 | 45 | 48 | 49 | 47 | 45 | 41 | 38 | 38 | 40 | 41  | 43 | 43  | 44  | 46  | 46  | 48 | 47  | 47  | 45  | 44   |
| 20    |      | 44 | 42 | 41 | 41 | 39 | 39 | 40 | 41 | 40 | 36 | 35 | 34 | 33 | 16 | 6   | 13 | 7   | 50  | 41  | 51  | 69 | 90  | 89  | 92  | 43   |
| 21    |      | 78 | 84 | 75 | 68 | 44 | 46 | 46 | 46 | 47 | 35 | 34 | 41 | 35 | 35 | 24  | 46 | 50  | 63  | 57  | 51  | 59 | 50  | 71  | 57  | 52   |
| 22    |      | 62 | 50 | 56 | 52 | 50 | 42 | 32 | 42 | 46 | 50 | 37 | 40 | 43 | 33 | 36  | 38 | 28  | 77  | 45  | 61  | 60 | 59  | 60  | 50  | 48   |
| 23    |      | 50 | 52 | 49 | 51 | 45 | 45 | 49 | 52 | 52 | 50 | 45 | 45 | 42 | 40 | 31  | 40 | 49  | 40  | 53  | 49  | 62 | 60  | 55  | 51  | 48   |
| 24    |      | 52 | 49 | 53 | 46 | 46 | 47 | 49 | 51 | 51 | 48 | 44 | 40 | 39 | 41 | 41  | 37 | 41  | 60  | 41  | 47  | 50 | 69  | 72  | 60  | 49   |
| 25    | Q    | 50 | 44 | 44 | 43 | 43 | 45 | 48 | 50 | 52 | 49 | 42 | 39 | 43 | 38 | 41  | 44 | 35  | 44  | 47  | 48  | 49 | 49  | 48  | 51  | 45   |
| 26    |      | 52 | 58 | 59 | 51 | 50 | 46 | 50 | 50 | 50 | 45 | 36 | 37 | 40 | 38 | 40  | 41 | 40  | 43  | 45  | 49  | 51 | 49  | 54  | 65  | 48   |
| 27    |      | 58 | 52 | 51 | 47 | 47 | 51 | 51 | 49 | 48 | 42 | 31 | 37 | 33 | 38 | 37  | 34 | 38  | 41  | 45  | 50  | 50 | 91  | 83  | 105 | 50   |
| 28    |      | 72 | 59 | 52 | 53 | 55 | 52 | 54 | 50 | 48 | 40 | 43 | 40 | 33 | 38 | 41  | 41 | 43  | 37  | 66  | 45  | 69 | 59  | 55  | 53  | 50   |
| 29    | Q    | 52 | 50 | 48 | 46 | 48 | 49 | 49 | 47 | 45 | 43 | 39 | 42 | 44 | 44 | 37  | 31 | 61  | 41  | 47  | 50  | 53 | 56  | 57  | 59  | 47   |
| 30    |      | 57 | 56 | 53 | 55 | 54 | 52 | 51 | 51 | 51 | 45 | 40 | 39 | 41 | 38 | 42  | 41 | 40  | 40  | 44  | 51  | 54 | 55  | 50  | 61  | 48   |
| 31    |      | 58 | 52 | 51 | 57 | 51 | 43 | 44 | 44 | 43 | 41 | 35 | 29 | 35 | 40 | 41  | 44 | 128 | 114 | 98  | 104 | 67 | 67  | 51  | 40  | 57   |
| All   |      | 55 | 49 | 47 | 45 | 42 | 41 | 41 | 43 | 45 | 45 | 41 | 37 | 39 | 41 | 46  | 48 | 60  | 64  | 60  | 64  | 62 | 62  | 61  | 60  | 50   |
| Quiet |      | 48 | 45 | 45 | 45 | 46 | 47 | 48 | 49 | 49 | 45 | 42 | 40 | 41 | 41 | 40  | 40 | 46  | 42  | 46  | 48  | 50 | 52  | 52  | 53  | 46   |
| Dist. |      | 55 | 40 | 43 | 40 | 28 | 22 | 18 | 27 | 37 | 48 | 46 | 32 | 43 | 51 | 74  | 63 | 84  | 81  | 83  | 107 | 82 | 76  | 70  | 57  | 54   |

December 2003 Vertical component Z in nT (Z = 49600 nT + tabular values)

| Day   | Char | 1   | 2   | 3   | 4   | 5  | 6  | 7  | 8  | 9  | 10  | 11 | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean |
|-------|------|-----|-----|-----|-----|----|----|----|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1     |      | 49  | 64  | 71  | 51  | 48 | 64 | 70 | 75 | 78 | 77  | 76 | 75  | 75  | 75  | 75  | 77  | 81  | 79  | 78  | 75  | 73  | 72  | 69  | 46  | 70   |
| 2     |      | 48  | 59  | 65  | 65  | 67 | 65 | 64 | 65 | 66 | 66  | 68 | 71  | 73  | 74  | 72  | 71  | 71  | 72  | 72  | 73  | 74  | 74  | 73  | 71  | 68   |
| 3     | Q    | 70  | 68  | 69  | 68  | 69 | 68 | 68 | 67 | 66 | 66  | 69 | 69  | 70  | 72  | 72  | 72  | 76  | 77  | 80  | 78  | 77  | 77  | 73  | 71  | 71   |
| 4     | _    | 66  | 67  | 68  | 68  | 68 | 68 | 66 | 65 | 64 | 67  | 69 | 69  | 70  | 71  | 71  | 70  | 69  | 69  | 72  | 73  | 79  | 72  | 69  | 54  | 68   |
| 5     | D    | 58  | 63  | 58  | 56  | 54 | 61 | 66 | 66 | 72 | 93  | 96 | 102 | 115 | 97  | 177 | 226 | 214 | 184 | 169 | 131 | 99  | 30  | -79 | -58 | 90   |
| 6     |      | -1  | 17  | -20 | -12 | 38 | 66 | 73 | 72 | 77 | 84  | 88 | 106 | 96  | 105 | 116 | 124 | 117 | 94  | 88  | 84  | 75  | 60  | 35  | 32  | 67   |
| 7     |      | 26  | 44  | 56  | 63  | 68 | 70 | 68 | 68 | 69 | 70  | 70 | 76  | 80  | 80  | 85  | 102 | 111 | 125 | 158 | 177 | 100 | 79  | 53  | 20  | 80   |
| 8     | D    | 43  | 57  | 64  | 61  | 51 | 52 | 58 | 64 | 75 | 82  | 83 | 99  | 144 | 102 | 87  | 85  | 157 | 150 | 104 | 53  | -19 | -6  | -18 | 13  | 68   |
| 9     | D    | -1  | 19  | 41  | 47  | 41 | 49 | 66 | 78 | 83 | 101 | 98 | 95  | 97  | 120 | 118 | 119 | 92  | 98  | 90  | 58  | 54  | -12 | 11  | 48  | 67   |
| 10    | D    | 44  | 8   | 20  | 39  | 57 | 64 | 66 | 73 | 80 | 94  | 95 | 103 | 122 | 113 | 112 | 148 | 92  | 149 | 65  | 80  | 2   | -49 | 13  | 22  | 67   |
| 11    | D    | -24 | -19 | 26  | 58  | 48 | 62 | 57 | 72 | 75 | 101 | 93 | 100 | 110 | 114 | 145 | 162 | 114 | 80  | 82  | 74  | 53  | 44  | 5   | 14  | 69   |
| 12    |      | 13  | 47  | 57  | 52  | 61 | 57 | 65 | 68 | 69 | 75  | 73 | 77  | 84  | 86  | 96  | 100 | 101 | 107 | 77  | 75  | 55  | 1   | 20  | -6  | 63   |
| 13    |      | 2   | 28  | 50  | 64  | 67 | 65 | 68 | 74 | 84 | 81  | 85 | 91  | 110 | 98  | 114 | 121 | 121 | 86  | 90  | 73  | 43  | 25  | 8   | 17  | 69   |
| 14    |      | 6   | 51  | 65  | 64  | 63 | 67 | 68 | 69 | 73 | 76  | 79 | 84  | 95  | 106 | 90  | 102 | 101 | 81  | 85  | 27  | 40  | 60  | 37  | 5   | 66   |
| 15    |      | -9  | 16  | 10  | 27  | 46 | 56 | 68 | 76 | 80 | 88  | 91 | 95  | 100 | 111 | 103 | 87  | 91  | 74  | 72  | 78  | 65  | 46  | 64  | 65  | 67   |
| 16    |      | 53  | 53  | 58  | 65  | 71 | 72 | 71 | 73 | 75 | 77  | 74 | 78  | 79  | 79  | 76  | 80  | 88  | 87  | 81  | 76  | 57  | 62  | 59  | 53  | 71   |
| 17    |      | 53  | 61  | 64  | 64  | 64 | 70 | 73 | 73 | 71 | 69  | 69 | 71  | 71  | 71  | 72  | 76  | 75  | 74  | 65  | 66  | 69  | 68  | 67  | 67  | 68   |
| 18    | Q    | 64  | 64  | 65  | 66  | 67 | 67 | 69 | 69 | 68 | 67  | 69 | 71  | 70  | 71  | 71  | 70  | 70  | 70  | 70  | 70  | 69  | 67  | 67  | 65  | 68   |
| 19    | Q    | 65  | 65  | 64  | 65  | 65 | 65 | 65 | 65 | 67 | 68  | 66 | 69  | 71  | 71  | 69  | 68  | 68  | 68  | 67  | 67  | 67  | 66  | 66  | 63  | 67   |
| 20    |      | 64  | 64  | 63  | 61  | 62 | 61 | 60 | 59 | 58 | 57  | 57 | 62  | 66  | 66  | 73  | 87  | 96  | 192 | 111 | 103 | 97  | 92  | 66  | 77  | 77   |
| 21    |      | 59  | 55  | 28  | 42  | 61 | 66 | 71 | 68 | 67 | 70  | 69 | 72  | 74  | 78  | 82  | 103 | 128 | 112 | 75  | 77  | 34  | 37  | 56  | 62  | 69   |
| 22    |      | 45  | 39  | 45  | 54  | 56 | 59 | 60 | 64 | 68 | 73  | 74 | 83  | 84  | 80  | 79  | 78  | 92  | 105 | 90  | 90  | 75  | 50  | 50  | 50  | 69   |
| 23    |      | 50  | 62  | 65  | 66  | 68 | 69 | 70 | 70 | 69 | 69  | 70 | 70  | 71  | 72  | 74  | 84  | 82  | 84  | 82  | 62  | 58  | 68  | 67  | 66  | 69   |
| 24    |      | 68  | 70  | 69  | 64  | 65 | 66 | 66 | 66 | 67 | 67  | 67 | 66  | 69  | 69  | 68  | 68  | 73  | 82  | 74  | 70  | 69  | 66  | 61  | 65  | 68   |
| 25    | Q    | 65  | 66  | 66  | 67  | 67 | 67 | 66 | 65 | 65 | 66  | 67 | 69  | 72  | 72  | 74  | 74  | 74  | 72  | 69  | 68  | 67  | 66  | 65  | 66  | 68   |
| 26    |      | 59  | 48  | 52  | 53  | 55 | 56 | 57 | 60 | 62 | 62  | 62 | 65  | 68  | 69  | 68  | 68  | 69  | 71  | 70  | 68  | 69  | 67  | 67  | 55  | 63   |
| 27    |      | 65  | 66  | 62  | 50  | 50 | 54 | 60 | 61 | 62 | 63  | 60 | 63  | 63  | 64  | 65  | 69  | 74  | 72  | 70  | 68  | 68  | 76  | 15  | 41  | 61   |
| 28    |      | 71  | 75  | 77  | 70  | 67 | 72 | 75 | 72 | 69 | 67  | 66 | 68  | 73  | 73  | 76  | 74  | 75  | 78  | 89  | 84  | 80  | 70  | 73  | 73  | 74   |
| 29    | Q    | 71  | 69  | 67  | 66  | 66 | 65 | 64 | 63 | 64 | 64  | 62 | 63  | 66  | 66  | 68  | 75  | 87  | 81  | 75  | 70  | 69  | 69  | 66  | 67  | 69   |
| 30    |      | 67  | 67  | 66  | 65  | 66 | 65 | 65 | 64 | 66 | 65  | 63 | 65  | 67  | 67  | 67  | 67  | 68  | 69  | 80  | 82  | 76  | 76  | 76  | 80  | 69   |
| 31    |      | 74  | 68  | 61  | 60  | 61 | 58 | 60 | 62 | 62 | 63  | 67 | 72  | 73  | 76  | 83  | 83  | 142 | 110 | 104 | 30  | 43  | -28 | -4  | 34  | 63   |
| All   |      | 45  | 51  | 54  | 56  | 60 | 63 | 66 | 68 | 70 | 74  | 74 | 78  | 83  | 83  | 87  | 93  | 96  | 95  | 86  | 76  | 62  | 50  | 43  | 45  | 69   |
| Quiet |      | 67  | 66  | 66  | 66  | 67 | 66 | 66 | 66 | 66 | 66  | 67 | 68  | 70  | 70  | 71  | 72  | 75  | 74  | 72  | 70  | 70  | 69  | 67  | 67  | 69   |
| Dist. |      | 24  | 26  | 42  | 52  | 50 | 57 | 63 | 70 | 77 | 94  | 93 | 100 | 117 | 109 | 128 | 148 | 134 | 132 | 102 | 79  | 38  | 1   | -14 | 8   | 72   |

# 11 Hourly Means minus Monthly Means

# 11.1 All Days

| North | Component | X | in | nТ |
|-------|-----------|---|----|----|

| Month/Hour | 1   | 2   | 3  | 4  | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15 | 16 | 17 | 18  | 19  | 20  | 21  | 22  | 23  | 24  | Mean  |
|------------|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-------|
| January    | -3  | -3  | 1  | 3  | 5   | 7   | 5   | 3   | 0   | -4  | -6  | -6  | -3 | -1 | 0  | 1  | 3  | 0   | 0   | 1   | 2   | 2   | -3  | -4  | 14894 |
| February   | -4  | -3  | 0  | 4  | 6   | 10  | 9   | 2   | -5  | -8  | -10 | -9  | -6 | -2 | 0  | 8  | 2  | 2   | 3   | -1  | 4   | -2  | 1   | 0   | 14889 |
| March      | -7  | -2  | 3  | 7  | 7   | 7   | 5   | -4  | -12 | -15 | -16 | -12 | -4 | 7  | 16 | 17 | 13 | 14  | 8   | 1   | -10 | -5  | -10 | -8  | 14887 |
| Aprl       | 1   | -1  | 1  | 5  | 5   | -1  | -7  | -19 | -27 | -34 | -30 | -17 | -3 | 8  | 13 | 20 | 21 | 24  | 19  | 15  | 8   | 8   | -3  | -7  | 14888 |
| May        | -25 | -23 | -7 | -2 | -11 | -15 | -18 | -27 | -27 | -26 | -14 | -3  | 7  | 23 | 35 | 38 | 35 | 40  | 33  | 23  | 10  | -10 | -17 | -16 | 14886 |
| June       | -2  | -3  | -4 | -4 | -8  | -20 | -33 | -39 | -37 | -33 | -26 | -13 | 4  | 16 | 24 | 32 | 40 | 36  | 31  | 24  | 16  | 4   | -3  | -4  | 14893 |
| July       | -7  | -4  | -2 | -6 | -8  | -15 | -18 | -28 | -34 | -38 | -29 | -15 | 4  | 12 | 27 | 28 | 33 | 32  | 31  | 25  | 16  | 6   | -1  | -12 | 14893 |
| August     | -5  | -3  | -3 | -5 | -5  | -15 | -22 | -35 | -34 | -30 | -23 | -5  | 5  | 16 | 31 | 34 | 30 | 29  | 22  | 15  | 9   | 2   | -2  | -6  | 14888 |
| September  | -1  | 0   | 1  | 7  | 3   | -2  | -9  | -17 | -25 | -28 | -21 | -12 | -1 | 16 | 17 | 12 | 14 | 12  | 12  | 10  | 6   | 5   | 2   | -2  | 14888 |
| October    | -33 | -34 | -2 | 14 | 19  | 18  | -3  | 4   | -5  | -6  | -1  | 7   | 16 | 30 | 32 | 40 | 39 | 35  | 34  | -6  | -43 | -64 | -62 | -31 | 14865 |
| November   | -12 | 0   | 0  | 5  | 9   | 11  | 9   | 4   | -6  | -8  | -4  | 3   | 11 | 13 | 27 | 20 | -1 | -10 | -10 | -17 | -4  | -7  | -21 | -12 | 14874 |
| December   | -6  | -4  | 0  | 4  | 6   | 8   | 6   | 5   | 0   | -3  | -5  | -3  | -1 | 1  | 2  | -2 | -2 | 0   | -3  | 0   | 2   | -1  | -6  | -2  | 14887 |
| Winter     | -6  | -2  | 0  | 4  | 6   | 9   | 7   | 3   | -2  | -6  | -6  | -4  | 0  | 3  | 7  | 7  | 1  | -2  | -3  | -4  | 1   | -2  | -7  | -4  | 14886 |
| Equinox    | -10 | -9  | 1  | 8  | 8   | 6   | -3  | -9  | -17 | -21 | -17 | -8  | 2  | 15 | 20 | 22 | 22 | 21  | 18  | 5   | -10 | -14 | -19 | -12 | 14882 |
| Summer     | -10 | -8  | -4 | -4 | -8  | -16 | -23 | -32 | -33 | -31 | -23 | -9  | 5  | 17 | 29 | 33 | 34 | 34  | 29  | 22  | 13  | 0   | -6  | -10 | 14890 |
| Year       | -9  | -7  | -1 | 3  | 2   | -1  | -6  | -13 | -18 | -19 | -15 | -7  | 2  | 12 | 19 | 21 | 19 | 18  | 15  | 8   | 1   | -5  | -11 | -9  | 14886 |

East Component Y in nT

| Month/Hour | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Mean |
|------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|------|
| January    | 14 | 8  | 6  | 1  | -1 | -2 | -3 | -3 | -3 | -4  | -9  | -14 | -15 | -14 | -11 | -8  | -3  | 0  | 2  | 5  | 8  | 15 | 16 | 16 | 1620 |
| February   | 16 | 15 | 12 | 3  | -1 | -2 | -3 | 0  | -2 | -7  | -13 | -20 | -22 | -20 | -17 | -14 | -6  | -2 | 5  | 11 | 17 | 17 | 16 | 18 | 1624 |
| March      | 11 | 8  | 7  | 7  | 5  | 3  | 8  | 8  | 3  | -7  | -17 | -28 | -32 | -27 | -19 | -13 | -5  | 4  | 8  | 18 | 19 | 17 | 14 | 10 | 1627 |
| Aprl       | 8  | 11 | 7  | 10 | 10 | 12 | 15 | 13 | 7  | -5  | -20 | -33 | -36 | -32 | -27 | -13 | -5  | 3  | 8  | 11 | 16 | 13 | 13 | 11 | 1626 |
| May        | 17 | 18 | 12 | 18 | 20 | 18 | 15 | 12 | 3  | -10 | -23 | -33 | -33 | -27 | -17 | -10 | -8  | -5 | 0  | 3  | 3  | 3  | 8  | 13 | 1632 |
| June       | 10 | 8  | 15 | 19 | 24 | 26 | 26 | 22 | 11 | -3  | -19 | -29 | -33 | -30 | -24 | -14 | -10 | -4 | -2 | -4 | -2 | 3  | 5  | 5  | 1633 |
| July       | 9  | 13 | 14 | 15 | 22 | 25 | 26 | 23 | 11 | 0   | -16 | -28 | -33 | -30 | -25 | -14 | -8  | -4 | -1 | -3 | -3 | -1 | 3  | 6  | 1636 |
| August     | 9  | 11 | 18 | 19 | 19 | 16 | 22 | 14 | 4  | -8  | -22 | -30 | -33 | -30 | -20 | -10 | -3  | 1  | 2  | 2  | 7  | 3  | 3  | 4  | 1639 |
| September  | 5  | 7  | 6  | 10 | 9  | 10 | 8  | 6  | 0  | -11 | -20 | -25 | -25 | -21 | -8  | -5  | 4   | 3  | 9  | 7  | 6  | 8  | 7  | 6  | 1640 |
| October    | 14 | 10 | -3 | 1  | -1 | -3 | -3 | 8  | 1  | -10 | -16 | -26 | -27 | -25 | -17 | -7  | -4  | -3 | 2  | 5  | 29 | 36 | 17 | 25 | 1649 |
| November   | 10 | 0  | -5 | -3 | -5 | -9 | -8 | -5 | -5 | -8  | -14 | -18 | -18 | -14 | -6  | -6  | -11 | 8  | 19 | 24 | 21 | 21 | 18 | 16 | 1653 |
| December   | 5  | -1 | -3 | -5 | -8 | -9 | -9 | -7 | -5 | -5  | -9  | -12 | -11 | -9  | -4  | -2  | 11  | 14 | 11 | 14 | 12 | 12 | 11 | 10 | 1650 |
| Winter     | 11 | 5  | 2  | -1 | -4 | -6 | -6 | -4 | -4 | -6  | -11 | -16 | -16 | -14 | -9  | -7  | -2  | 5  | 9  | 13 | 14 | 16 | 15 | 15 | 1637 |
| Equinox    | 9  | 9  | 4  | 7  | 6  | 6  | 7  | 9  | 3  | -8  | -18 | -28 | -30 | -26 | -18 | -9  | -2  | 2  | 7  | 10 | 17 | 19 | 13 | 13 | 1636 |
| Summer     | 11 | 13 | 15 | 18 | 21 | 21 | 22 | 18 | 7  | -5  | -20 | -30 | -33 | -30 | -21 | -12 | -7  | -3 | 0  | 0  | 1  | 2  | 5  | 7  | 1635 |
| Year       | 11 | 9  | 7  | 8  | 8  | 7  | 8  | 8  | 2  | -6  | -17 | -25 | -26 | -23 | -16 | -10 | -4  | 1  | 5  | 8  | 11 | 12 | 11 | 12 | 1636 |

Vertical Component Z in nT

| Month/Hour | 1   | 2   | 3   | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24  | Mean  |
|------------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-------|
| January    | -19 | -18 | -18 | -12 | -8  | -5  | -3 | -2 | -1 | 1  | 1  | 2  | 7  | 8  | 11 | 12 | 18 | 19 | 16 | 12  | 4   | -2  | -9  | -15 | 49621 |
| February   | -26 | -23 | -17 | -12 | -8  | -6  | -3 | -2 | -3 | -3 | -1 | 4  | 8  | 17 | 21 | 26 | 25 | 26 | 23 | 10  | 4   | -10 | -20 | -30 | 49623 |
| March      | -39 | -34 | -20 | -11 | -7  | -2  | 0  | 0  | 1  | 1  | 5  | 9  | 17 | 31 | 41 | 43 | 42 | 31 | 22 | 10  | -11 | -36 | -48 | -46 | 49625 |
| Aprl       | -37 | -28 | -22 | -14 | -9  | -4  | 0  | 1  | 0  | 0  | 4  | 10 | 22 | 31 | 35 | 42 | 38 | 30 | 18 | 1   | -16 | -23 | -33 | -49 | 49630 |
| May        | -54 | -50 | -36 | -18 | -11 | -5  | 1  | 4  | 6  | 5  | 9  | 16 | 24 | 34 | 42 | 42 | 36 | 34 | 17 | 3   | -18 | -22 | -25 | -35 | 49632 |
| June       | -33 | -28 | -24 | -19 | -15 | -12 | -8 | -3 | 1  | 5  | 9  | 14 | 22 | 28 | 37 | 38 | 36 | 30 | 20 | 7   | -3  | -24 | -34 | -42 | 49642 |
| July       | -41 | -31 | -20 | -16 | -13 | -10 | -4 | -2 | 0  | 0  | 2  | 11 | 21 | 25 | 32 | 35 | 33 | 28 | 20 | 12  | 1   | -14 | -28 | -40 | 49644 |
| August     | -36 | -36 | -26 | -13 | -6  | -7  | -1 | 2  | 4  | 7  | 6  | 14 | 22 | 30 | 35 | 35 | 31 | 23 | 17 | 4   | -14 | -28 | -25 | -38 | 49648 |
| September  | -34 | -25 | -18 | -11 | -10 | -4  | -1 | 0  | 1  | 2  | 5  | 12 | 18 | 29 | 36 | 29 | 26 | 18 | 11 | -1  | -9  | -18 | -20 | -34 | 49651 |
| October    | -21 | -39 | -38 | -14 | -1  | 1   | 5  | 13 | 6  | 9  | 11 | 16 | 22 | 34 | 42 | 41 | 40 | 16 | 15 | -17 | -30 | -43 | -28 | -44 | 49657 |
| November   | -31 | -21 | -13 | -7  | -5  | -2  | 1  | 4  | 7  | 10 | 16 | 20 | 27 | 33 | 33 | 17 | 16 | 22 | 0  | -4  | -18 | -27 | -41 | -38 | 49671 |
| December   | -24 | -18 | -15 | -13 | -9  | -6  | -3 | -1 | 1  | 5  | 5  | 9  | 14 | 14 | 18 | 24 | 27 | 26 | 16 | 7   | -7  | -19 | -26 | -24 | 49669 |
| Winter     | -25 | -20 | -16 | -11 | -7  | -5  | -2 | 0  | 1  | 3  | 5  | 9  | 14 | 18 | 21 | 20 | 22 | 23 | 14 | 6   | -4  | -15 | -24 | -26 | 49646 |
| Equinox    | -33 | -32 | -24 | -13 | -6  | -2  | 1  | 4  | 2  | 3  | 6  | 12 | 20 | 31 | 39 | 39 | 37 | 24 | 16 | -2  | -17 | -30 | -32 | -43 | 49641 |
| Summer     | -41 | -36 | -27 | -17 | -11 | -8  | -3 | 0  | 3  | 4  | 7  | 14 | 22 | 29 | 36 | 38 | 34 | 29 | 19 | 6   | -8  | -22 | -28 | -39 | 49641 |
| Year       | -33 | -29 | -22 | -13 | -8  | -5  | -2 | 1  | 2  | 4  | 6  | 11 | 19 | 26 | 32 | 32 | 31 | 25 | 16 | 4   | -10 | -22 | -28 | -36 | 49643 |

# 11.2 Quiet Days

North Component X in nT

| Month/Hour | 1  | 2  | 3  | 4  | 5  | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Mean  |
|------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|-------|
| January    | -2 | -2 | -1 | 1  | 2  | 2   | 1   | 0   | -4  | -7  | -7  | -4  | -1  | 1   | 3  | 4  | 6  | 7  | 5  | -2 | -1 | -2 | 1  | -1 | 14899 |
| February   | -4 | -5 | -1 | 3  | 7  | 9   | 7   | 1   | -3  | -7  | -8  | -11 | -7  | -10 | -3 | 2  | 2  | 2  | 5  | 6  | 5  | 7  | 4  | -2 | 14896 |
| March      | 5  | 5  | 6  | 4  | 6  | 8   | 4   | -6  | -15 | -19 | -18 | -15 | -12 | -8  | -1 | 3  | 5  | 5  | 5  | 7  | 8  | 11 | 6  | 7  | 14897 |
| Aprl       | 1  | 0  | 0  | 3  | 6  | 6   | -1  | -12 | -24 | -32 | -30 | -20 | -7  | -2  | 7  | 7  | 7  | 13 | 14 | 14 | 13 | 12 | 13 | 8  | 14895 |
| May        | -1 | 3  | 5  | 3  | -3 | -11 | -18 | -28 | -29 | -26 | -22 | -10 | -3  | -1  | -1 | 10 | 16 | 22 | 25 | 23 | 17 | 12 | 10 | 8  | 14895 |
| June       | 0  | -1 | 3  | -1 | -2 | -10 | -19 | -25 | -30 | -31 | -28 | -21 | -8  | 4   | 15 | 31 | 22 | 24 | 25 | 16 | 15 | 8  | 5  | 3  | 14899 |
| July       | -1 | -2 | 7  | 6  | -2 | -8  | -10 | -17 | -26 | -30 | -23 | -18 | -10 | 1   | 6  | 10 | 14 | 15 | 21 | 19 | 17 | 12 | 9  | 8  | 14898 |
| August     | 7  | 5  | 4  | 2  | 0  | -4  | -13 | -26 | -33 | -39 | -32 | -20 | -7  | -1  | 13 | 19 | 16 | 17 | 20 | 16 | 14 | 13 | 16 | 10 | 14896 |
| September  | 4  | 3  | 5  | 5  | 5  | 4   | 0   | -8  | -17 | -24 | -23 | -16 | -6  | -1  | 4  | 2  | 2  | 5  | 9  | 9  | 9  | 10 | 10 | 9  | 14893 |
| October    | 5  | 3  | 3  | 5  | 7  | 5   | -2  | -10 | -18 | -23 | -22 | -15 | -8  | 0   | 4  | 4  | 6  | 8  | 8  | 8  | 8  | 9  | 6  | 6  | 14892 |
| November   | 0  | -1 | -2 | 0  | 1  | 3   | 2   | -3  | -9  | -12 | -11 | -4  | 1   | 0   | 2  | -1 | 3  | 5  | 1  | 3  | 4  | 8  | 4  | 2  | 14889 |
| December   | -3 | -2 | 0  | 1  | 2  | 3   | 3   | 2   | 1   | -3  | -5  | -5  | -3  | 1   | 1  | 0  | 0  | -1 | 2  | 3  | 1  | 1  | -1 | -1 | 14894 |
| Winter     | -2 | -2 | -1 | 1  | 3  | 4   | 3   | 0   | -3  | -7  | -8  | -6  | -2  | -2  | 1  | 1  | 3  | 3  | 3  | 2  | 3  | 4  | 2  | -1 | 14895 |
| Equinox    | 4  | 3  | 3  | 4  | 6  | 6   | 0   | -9  | -18 | -24 | -23 | -16 | -8  | -3  | 3  | 4  | 5  | 8  | 9  | 10 | 10 | 10 | 9  | 8  | 14894 |
| Summer     | 1  | 1  | 5  | 3  | -2 | -8  | -15 | -24 | -30 | -31 | -26 | -17 | -7  | 1   | 8  | 18 | 17 | 20 | 23 | 19 | 16 | 12 | 10 | 7  | 14897 |
| Year       | 1  | 1  | 2  | 3  | 2  | 1   | -4  | -11 | -17 | -21 | -19 | -13 | -6  | -1  | 4  | 8  | 8  | 10 | 12 | 10 | 9  | 9  | 7  | 5  | 14895 |

East Component Y in nT

| Month/Hour | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21 | 22 | 23 | 24 | Mean |
|------------|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|------|
| January    | 8  | 6  | 4  | 2  | 1  | 2  | 3  | 3  | 1  | -2 | -6  | -12 | -13 | -10 | -10 | -9  | -7  | -7 | 2  | 3  | 6  | 11 | 12 | 10 | 1615 |
| February   | 14 | 11 | 5  | 3  | 1  | 0  | 1  | 7  | 8  | 1  | -7  | -13 | -17 | -12 | -12 | -7  | -6  | -7 | -3 | -1 | 2  | 4  | 11 | 16 | 1621 |
| March      | -1 | 3  | 5  | 6  | 7  | 11 | 17 | 16 | 9  | -2 | -13 | -22 | -23 | -19 | -13 | -7  | -2  | -1 | -3 | 2  | 6  | 7  | 12 | 6  | 1624 |
| Aprl       | 2  | 3  | 4  | 8  | 14 | 18 | 21 | 22 | 17 | 3  | -10 | -25 | -29 | -27 | -19 | -12 | -7  | 5  | 2  | 6  | 1  | 0  | 3  | -3 | 1624 |
| May        | 6  | 10 | 16 | 23 | 24 | 25 | 22 | 16 | 4  | -9 | -24 | -32 | -33 | -27 | -17 | -12 | -8  | -7 | -7 | 9  | 6  | 4  | 2  | 9  | 1627 |
| June       | -1 | 9  | 16 | 25 | 32 | 34 | 31 | 24 | 12 | -6 | -22 | -34 | -36 | -34 | -26 | -11 | -8  | -6 | 0  | -3 | -8 | -1 | 4  | 4  | 1633 |
| July       | 7  | 8  | 14 | 18 | 24 | 28 | 27 | 26 | 16 | 4  | -11 | -26 | -32 | -29 | -20 | -15 | -10 | -8 | -3 | -7 | -6 | -5 | -4 | -2 | 1635 |
| August     | 7  | 11 | 13 | 21 | 23 | 27 | 28 | 21 | 9  | -7 | -20 | -33 | -37 | -29 | -18 | -9  | -5  | -6 | -3 | 2  | 0  | -1 | -3 | 8  | 1636 |
| September  | 5  | 9  | 10 | 11 | 12 | 13 | 16 | 13 | 5  | -6 | -18 | -24 | -26 | -22 | -15 | -10 | 0   | -2 | 1  | 5  | 2  | 7  | 7  | 6  | 1638 |
| October    | 7  | 7  | 6  | 6  | 6  | 10 | 13 | 14 | 8  | -1 | -11 | -19 | -21 | -17 | -11 | -8  | -6  | -4 | -2 | -1 | 1  | 4  | 8  | 9  | 1640 |
| November   | 6  | 5  | 5  | 3  | 2  | 2  | 4  | 5  | 4  | -1 | -9  | -14 | -15 | -10 | -11 | -2  | -5  | -6 | 0  | 7  | 11 | 7  | 5  | 6  | 1645 |
| December   | 2  | 0  | -1 | -1 | 0  | 1  | 2  | 3  | 3  | 0  | -4  | -6  | -5  | -5  | -5  | -6  | 0   | -4 | 0  | 2  | 4  | 6  | 7  | 7  | 1646 |
| Winter     | 8  | 5  | 3  | 2  | 1  | 1  | 3  | 4  | 3  | -1 | -6  | -11 | -12 | -9  | -9  | -6  | -4  | -6 | 0  | 3  | 6  | 7  | 9  | 10 | 1632 |
| Equinox    | 4  | 5  | 6  | 8  | 10 | 13 | 17 | 16 | 10 | -2 | -13 | -22 | -25 | -21 | -14 | -9  | -4  | 0  | -1 | 3  | 3  | 5  | 8  | 5  | 1631 |
| Summer     | 5  | 9  | 15 | 22 | 26 | 29 | 27 | 22 | 11 | -4 | -19 | -31 | -35 | -30 | -20 | -12 | -8  | -7 | -3 | 0  | -2 | -1 | 0  | 4  | 1633 |
| Year       | 5  | 7  | 8  | 10 | 12 | 14 | 16 | 14 | 8  | -2 | -13 | -21 | -24 | -20 | -15 | -9  | -5  | -4 | -1 | 2  | 2  | 4  | 5  | 6  | 1632 |

Vertical Component Z in nT

| Month/Hour | 1   | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 24  | Mean  |
|------------|-----|-----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-------|
| January    | -2  | -1  | -1 | -2 | -2 | -1 | -1 | -1 | -2 | -2  | -3  | -3 | 0  | 0  | 0  | 1  | 2  | 3  | 5  | 7  | 6  | 4  | -4  | -4  | 49621 |
| February   | -15 | -9  | -6 | -3 | -3 | -2 | -1 | -1 | -3 | -4  | -3  | 1  | 6  | 11 | 11 | 11 | 10 | 10 | 8  | 5  | 4  | 0  | -9  | -16 | 49620 |
| March      | -8  | -4  | -2 | -1 | 0  | 0  | -1 | -3 | -4 | -7  | -6  | -3 | 3  | 7  | 7  | 6  | 9  | 11 | 12 | 8  | 6  | -7 | -11 | -11 | 49628 |
| Aprl       | -22 | -7  | -3 | -4 | -1 | 1  | 3  | 2  | -1 | -5  | -9  | -7 | 4  | 9  | 12 | 12 | 13 | 11 | 4  | 2  | -2 | -3 | -3  | -8  | 49635 |
| May        | -11 | -5  | -3 | 0  | 2  | 3  | 3  | 2  | -2 | -9  | -10 | -2 | 4  | 8  | 6  | 6  | 8  | 10 | 11 | 11 | 0  | -8 | -11 | -11 | 49633 |
| June       | -10 | -5  | -1 | 0  | 2  | -1 | -4 | -6 | -6 | -7  | -8  | -3 | 1  | 6  | 10 | 18 | 16 | 14 | 14 | 5  | 2  | -6 | -14 | -18 | 49644 |
| July       | -15 | -11 | -6 | -1 | 0  | 1  | 1  | -1 | -5 | -10 | -11 | -7 | 2  | 6  | 7  | 10 | 10 | 8  | 8  | 5  | 5  | 4  | 2   | 1   | 49643 |
| August     | -9  | -2  | 1  | 1  | 1  | 0  | -2 | -3 | -5 | -8  | -9  | -7 | 1  | 8  | 16 | 17 | 15 | 11 | 10 | 3  | -4 | -4 | -10 | -21 | 49652 |
| September  | -9  | -5  | -3 | -2 | 0  | 1  | 0  | -2 | -4 | -7  | -8  | -5 | -1 | 4  | 9  | 11 | 11 | 8  | 6  | 4  | 2  | -1 | -3  | -7  | 49653 |
| October    | 0   | 0   | 0  | 0  | 1  | 2  | 3  | 2  | 0  | -4  | -6  | -5 | 0  | 2  | 2  | 1  | 1  | 1  | 1  | 1  | 1  | 0  | -1  | -2  | 49655 |
| November   | -1  | 0   | 0  | 0  | 1  | 2  | 1  | 0  | -1 | -1  | -2  | -1 | 2  | 4  | 4  | 7  | 4  | 5  | 7  | 3  | -1 | -8 | -15 | -11 | 49671 |
| December   | -1  | -2  | -2 | -2 | -2 | -2 | -2 | -3 | -2 | -2  | -2  | 0  | 1  | 2  | 2  | 3  | 7  | 5  | 4  | 2  | 1  | 1  | -1  | -2  | 49669 |
| Winter     | -5  | -3  | -3 | -2 | -1 | -1 | -1 | -1 | -3 | -2  | -2  | -1 | 2  | 4  | 4  | 6  | 6  | 6  | 6  | 4  | 2  | -1 | -7  | -8  | 49645 |
| Equinox    | -10 | -4  | -2 | -2 | 0  | 1  | 1  | 0  | -3 | -6  | -7  | -5 | 1  | 6  | 7  | 8  | 8  | 8  | 6  | 4  | 2  | -3 | -5  | -7  | 49643 |
| Summer     | -11 | -6  | -2 | 0  | 1  | 1  | 0  | -2 | -5 | -9  | -9  | -5 | 2  | 7  | 10 | 13 | 12 | 11 | 10 | 6  | 1  | -4 | -8  | -13 | 49643 |
| Year       | -9  | -4  | -2 | -1 | 0  | 0  | 0  | -1 | -4 | -5  | -6  | -3 | 2  | 6  | 7  | 9  | 9  | 8  | 7  | 5  | 2  | -2 | -7  | -9  | 49644 |

# 11.3 Disturbed Days

| North | Component | v | in | $_{n}T$ |  |
|-------|-----------|---|----|---------|--|
|       |           |   |    |         |  |

| Month/Hour | 1    | 2    | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21   | 22   | 23   | 24   | Mean  |
|------------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|
| January    | -19  | -16  | -6  | 5   | 9   | 11  | 6   | 5   | 3   | -1  | -4  | -8  | -6  | 2   | -2  | 6   | 2   | -5  | 0   | 9   | 4    | 7    | 2    | -4   | 14886 |
| February   | -13  | -16  | -13 | 4   | 8   | 17  | 12  | 1   | -10 | -8  | -9  | -3  | 2   | 9   | 9   | 46  | 8   | 3   | 9   | -18 | -3   | -26  | -6   | -4   | 14879 |
| March      | -21  | -4   | 1   | 5   | -2  | 5   | 8   | -3  | -14 | -14 | -9  | -11 | -4  | 27  | 69  | 62  | 25  | 30  | 4   | 1   | -27  | -21  | -58  | -50  | 14873 |
| Aprl       | 0    | -10  | -10 | 7   | 8   | 3   | 0   | -14 | -25 | -40 | -36 | -17 | 4   | 18  | 22  | 39  | 31  | 32  | 18  | 15  | 13   | -1   | -27  | -29  | 14878 |
| May        | -103 | -111 | -22 | 17  | 1   | -10 | -9  | -12 | -8  | -3  | 9   | 18  | 39  | 57  | 115 | 103 | 67  | 80  | 51  | 26  | -5   | -81  | -134 | -86  | 14865 |
| June       | 13   | 8    | -18 | -9  | -11 | -29 | -65 | -68 | -55 | -32 | -19 | -5  | 23  | 46  | 56  | 33  | 58  | 43  | 33  | 23  | 9    | 2    | -11  | -23  | 14880 |
| July       | -17  | -9   | -2  | -35 | -42 | -48 | -25 | -43 | -50 | -55 | -41 | 3   | 60  | 50  | 66  | 71  | 62  | 49  | 34  | 21  | 8    | -6   | -15  | -42  | 14881 |
| August     | -22  | -14  | -2  | -13 | -14 | -45 | -51 | -72 | -51 | -17 | -17 | 36  | 56  | 88  | 102 | 100 | 65  | 49  | 6   | -5  | -17  | -31  | -52  | -53  | 14877 |
| September  | -15  | -7   | -9  | 15  | 6   | -2  | -11 | -16 | -29 | -38 | -18 | -7  | 2   | 54  | 57  | 29  | 36  | 21  | 14  | 0   | -8   | -9   | -25  | -39  | 14878 |
| October    | -201 | -198 | -19 | 56  | 95  | 92  | -6  | 65  | 62  | 81  | 98  | 112 | 123 | 155 | 159 | 172 | 189 | 165 | 166 | -98 | -307 | -387 | -379 | -194 | 14763 |
| November   | 15   | 23   | 23  | 24  | 27  | 34  | 28  | 23  | -4  | -3  | 20  | 34  | 47  | 60  | 137 | 95  | -47 | -88 | -89 | -82 | -37  | -45  | -113 | -83  | 14854 |
| December   | -14  | -5   | 13  | 18  | 10  | 16  | 9   | 11  | 3   | -3  | -7  | -3  | -2  | 5   | 13  | 1   | -11 | -6  | -6  | -5  | -5   | -11  | -22  | 1    | 14875 |
| Winter     | -8   | -3   | 4   | 13  | 13  | 19  | 14  | 10  | -2  | -4  | 0   | 5   | 10  | 19  | 39  | 37  | -12 | -24 | -21 | -24 | -10  | -19  | -35  | -22  | 14873 |
| Equinox    | -59  | -55  | -9  | 21  | 27  | 25  | -2  | 8   | -2  | -3  | 9   | 19  | 31  | 63  | 77  | 76  | 70  | 62  | 50  | -20 | -82  | -104 | -122 | -78  | 14848 |
| Summer     | -32  | -31  | -11 | -10 | -16 | -33 | -37 | -49 | -41 | -27 | -17 | 13  | 44  | 59  | 84  | 77  | 63  | 55  | 31  | 16  | -1   | -29  | -53  | -51  | 14876 |
| Year       | -33  | -30  | -5  | 8   | 8   | 4   | -8  | -10 | -14 | -11 | -3  | 13  | 28  | 47  | 66  | 63  | 40  | 31  | 20  | -9  | -31  | -51  | -70  | -50  | 14866 |

East Component Y in nT

| Month/Hour | 1  | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23 | 24  | Mean |
|------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|
| January    | 32 | 22  | 4   | -2  | -7  | -12 | -20 | -17 | -10 | -6  | -8  | -13 | -11 | -12 | -3  | -10 | -6  | 21  | 6   | 1   | 9   | 11  | 13 | 17  | 1625 |
| February   | 33 | 47  | 42  | 11  | -7  | -7  | -9  | -4  | -18 | -25 | -25 | -30 | -32 | -26 | -26 | -27 | 0   | -7  | 11  | 16  | 16  | 20  | 23 | 23  | 1635 |
| March      | 29 | 12  | 6   | 4   | 1   | -4  | 6   | 9   | 1   | -14 | -28 | -41 | -39 | -39 | -20 | -13 | -18 | 5   | 3   | 17  | 21  | 36  | 31 | 33  | 1636 |
| Aprl       | 11 | 5   | -8  | 8   | 5   | 12  | 22  | 16  | 9   | -1  | -22 | -40 | -42 | -37 | -34 | -22 | -10 | 6   | 5   | 15  | 30  | 15  | 21 | 37  | 1630 |
| May        | 55 | 54  | 7   | 10  | 19  | 9   | 4   | 2   | -10 | -16 | -25 | -37 | -35 | -32 | -21 | -10 | -21 | -17 | -2  | -13 | 8   | 12  | 18 | 39  | 1642 |
| June       | 26 | 12  | 14  | 6   | 4   | 10  | 26  | 27  | 18  | -1  | -20 | -29 | -38 | -39 | -30 | -10 | -11 | -5  | 1   | -8  | -6  | 16  | 13 | 24  | 1634 |
| July       | 3  | 26  | 21  | 6   | 4   | 7   | 16  | 28  | 17  | 12  | -11 | -23 | -31 | -30 | -26 | -9  | -12 | -9  | -3  | -1  | -12 | -9  | 22 | 18  | 1636 |
| August     | 13 | 14  | 13  | 0   | -4  | -18 | 4   | -2  | 1   | -3  | -18 | -19 | -25 | -35 | -23 | -9  | 9   | 14  | 6   | 8   | 33  | 12  | 14 | 4   | 1646 |
| September  | 11 | 10  | -6  | -3  | -10 | -9  | -15 | -11 | -6  | -9  | -16 | -18 | -20 | -13 | 3   | -4  | 17  | 16  | 15  | 2   | 14  | 17  | 23 | 12  | 1646 |
| October    | 32 | 22  | -28 | -10 | -8  | -13 | -39 | 16  | -11 | -38 | -34 | -56 | -56 | -55 | -44 | -31 | -26 | -8  | -10 | -4  | 127 | 126 | 38 | 106 | 1677 |
| November   | 7  | -4  | -19 | -13 | -23 | -30 | -31 | -21 | -14 | -18 | -26 | -30 | -17 | -15 | 6   | -1  | -54 | 39  | 34  | 50  | 41  | 43  | 55 | 41  | 1660 |
| December   | 0  | -14 | -12 | -14 | -26 | -32 | -36 | -27 | -18 | -6  | -9  | -22 | -12 | -4  | 19  | 9   | 30  | 26  | 28  | 53  | 28  | 21  | 16 | 2   | 1654 |
| Winter     | 18 | 13  | 4   | -5  | -16 | -20 | -24 | -17 | -15 | -14 | -17 | -24 | -18 | -14 | -1  | -7  | -7  | 20  | 20  | 30  | 23  | 24  | 27 | 20  | 1644 |
| Equinox    | 21 | 12  | -9  | 0   | -3  | -3  | -6  | 8   | -2  | -15 | -25 | -39 | -39 | -36 | -24 | -18 | -9  | 5   | 3   | 8   | 48  | 49  | 28 | 47  | 1647 |
| Summer     | 24 | 27  | 14  | 6   | 6   | 2   | 13  | 13  | 6   | -2  | -18 | -27 | -32 | -34 | -25 | -10 | -9  | -4  | 0   | -3  | 6   | 8   | 17 | 21  | 1640 |
| Year       | 21 | 17  | 3   | 0   | -4  | -7  | -6  | 1   | -4  | -10 | -20 | -30 | -30 | -28 | -16 | -11 | -8  | 7   | 8   | 11  | 26  | 27  | 24 | 30  | 1644 |

Vertical Component Z in nT

| Month/Hour | 1    | 2    | 3    | 4   | 5   | 6   | 7   | 8   | 9  | 10 | 11 | 12 | 13 | 14  | 15  | 16  | 17  | 18 | 19  | 20   | 21   | 22   | 23   | 24   | Mean  |
|------------|------|------|------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|----|-----|------|------|------|------|------|-------|
| January    | -64  | -45  | -46  | -25 | -11 | -7  | -5  | -3  | 0  | 8  | 8  | 8  | 19 | 23  | 27  | 22  | 40  | 47 | 30  | 16   | 7    | -2   | -12  | -33  | 49620 |
| February   | -66  | -59  | -53  | -33 | -20 | -11 | -4  | -2  | 0  | 3  | 7  | 15 | 22 | 42  | 48  | 73  | 60  | 53 | 45  | 1    | -6   | -33  | -38  | -45  | 49623 |
| March      | -77  | -52  | -30  | -23 | -14 | -3  | 0   | 4   | 9  | 12 | 16 | 24 | 34 | 56  | 103 | 111 | 89  | 53 | 19  | 8    | -41  | -91  | -105 | -102 | 49623 |
| Aprl       | -67  | -57  | -51  | -22 | -10 | 0   | 9   | 12  | 11 | 17 | 25 | 29 | 50 | 52  | 58  | 69  | 67  | 52 | 25  | 8    | -34  | -62  | -84  | -98  | 49624 |
| May        | -127 | -80  | -37  | -11 | -11 | -7  | -1  | 9   | 14 | 18 | 30 | 36 | 47 | 58  | 90  | 88  | 62  | 59 | 4   | -50  | -77  | -48  | -20  | -46  | 49635 |
| June       | -52  | -33  | -44  | -50 | -49 | -45 | -34 | -17 | -4 | 16 | 35 | 40 | 45 | 57  | 82  | 80  | 69  | 43 | 25  | 5    | -5   | -25  | -63  | -77  | 49637 |
| July       | -94  | -74  | -38  | -55 | -62 | -49 | -19 | -8  | 3  | 15 | 30 | 56 | 83 | 69  | 81  | 86  | 73  | 58 | 34  | 21   | -16  | -41  | -58  | -81  | 49643 |
| August     | -100 | -81  | -53  | -29 | -21 | -28 | -7  | 8   | 22 | 49 | 41 | 64 | 79 | 110 | 107 | 85  | 73  | 38 | 23  | 5    | -52  | -92  | -77  | -121 | 49646 |
| September  | -77  | -71  | -67  | -39 | -34 | -16 | -8  | 1   | 10 | 20 | 27 | 48 | 63 | 92  | 107 | 78  | 76  | 50 | 26  | -5   | -34  | -64  | -65  | -117 | 49647 |
| October    | -1   | -135 | -168 | -39 | 30  | 32  | 32  | 73  | 26 | 38 | 45 | 47 | 72 | 109 | 135 | 131 | 118 | 4  | 35  | -126 | -139 | -156 | -45  | -121 | 49653 |
| November   | -54  | -38  | -18  | -12 | -12 | -6  | -1  | 8   | 18 | 30 | 42 | 59 | 94 | 103 | 83  | -22 | -20 | 40 | -43 | -2   | -40  | -46  | -72  | -92  | 49664 |
| December   | -48  | -47  | -30  | -20 | -22 | -15 | -9  | -2  | 5  | 22 | 21 | 28 | 45 | 37  | 56  | 76  | 61  | 60 | 30  | 7    | -35  | -71  | -86  | -64  | 49672 |
| Winter     | -58  | -47  | -37  | -22 | -16 | -10 | -5  | 1   | 6  | 16 | 19 | 28 | 45 | 51  | 54  | 37  | 36  | 50 | 16  | 5    | -18  | -38  | -52  | -58  | 49645 |
| Equinox    | -56  | -79  | -79  | -31 | -7  | 3   | 8   | 22  | 14 | 22 | 28 | 37 | 55 | 77  | 101 | 97  | 88  | 40 | 26  | -29  | -62  | -93  | -74  | -110 | 49637 |
| Summer     | -93  | -67  | -43  | -36 | -36 | -32 | -16 | -2  | 9  | 25 | 34 | 49 | 63 | 71  | 89  | 85  | 70  | 49 | 22  | -5   | -38  | -51  | -54  | -81  | 49640 |
| Year       | -69  | -64  | -53  | -30 | -20 | -13 | -4  | 7   | 10 | 21 | 27 | 38 | 54 | 67  | 81  | 73  | 64  | 46 | 21  | -9   | -39  | -61  | -60  | -83  | 49641 |

# 12 Monthly and Annual Means

All days

|           | Z     | Н     | D                   | F     | X     | Y    | I                    |
|-----------|-------|-------|---------------------|-------|-------|------|----------------------|
| January   | 49621 | 14981 | 6° 12.4′            | 51833 | 14894 | 1620 | 73° 12.0′            |
| February  | 49623 | 14978 | $6^{\circ} 13.6'$   | 51834 | 14889 | 1624 | $73^{\circ}\ 12.3'$  |
| March     | 49625 | 14975 | $6^{\circ} 14.2'$   | 51835 | 14887 | 1627 | $73^{\circ}\ 12.4'$  |
| Aprl      | 49630 | 14977 | $6^{\circ} 14.1'$   | 51841 | 14888 | 1626 | $73^{\circ}\ 12.5'$  |
| May       | 49632 | 14975 | $6^{\circ}\ 15.3'$  | 51842 | 14886 | 1632 | $73^{\circ}\ 12.6'$  |
| June      | 49642 | 14982 | $6^{\circ} 15.5'$   | 51854 | 14893 | 1633 | $73^{\circ} \ 12.3'$ |
| July      | 49644 | 14982 | $6^{\circ} 16.0'$   | 51855 | 14893 | 1636 | $73^{\circ}\ 12.4'$  |
| August    | 49648 | 14978 | 6° 17.0′            | 51858 | 14888 | 1639 | $73^{\circ}\ 12.7'$  |
| September | 49651 | 14978 | $6^{\circ} 17.2'$   | 51861 | 14888 | 1640 | $73^{\circ} 12.8'$   |
| October   | 49657 | 14956 | $6^{\circ} 19.9'$   | 51860 | 14865 | 1649 | $73^{\circ} \ 14.3'$ |
| November  | 49671 | 14966 | $6^{\circ}\ 20.4'$  | 51876 | 14874 | 1653 | $73^{\circ}\ 13.9'$  |
| December  | 49669 | 14978 | $6^{\circ} 19.5'$   | 51878 | 14887 | 1650 | $73^{\circ} \ 13.2'$ |
| Winter    | 49646 | 14976 | $6^{\circ} \ 16.5'$ | 51856 | 14886 | 1637 | $73^{\circ} \ 12.8'$ |
| Equinox   | 49641 | 14972 | 6° 16.3′            | 51849 | 14882 | 1636 | $73^{\circ}\ 13.0'$  |
| Summer    | 49641 | 14980 | $6^{\circ} 16.0'$   | 51852 | 14890 | 1635 | $73^{\circ} \ 12.5'$ |
| Year      | 49643 | 14976 | $6^{\circ} 16.3'$   | 51852 | 14886 | 1636 | 73° 12.8′            |

### 5 Quiet days

|           | Z     | Н     | D                   | F     | X     | Y    | Ι                    |
|-----------|-------|-------|---------------------|-------|-------|------|----------------------|
| January   | 49621 | 14986 | 6° 11.2′            | 51835 | 14899 | 1615 | 73° 11.7′            |
| February  | 49620 | 14984 | $6^{\circ}\ 12.7'$  | 51833 | 14896 | 1621 | 73° 11.8′            |
| March     | 49628 | 14986 | $6^{\circ} 13.2'$   | 51841 | 14897 | 1624 | 73° 11.9′            |
| Aprl      | 49635 | 14983 | $6^{\circ} 13.4'$   | 51847 | 14895 | 1624 | $73^{\circ}\ 12.1'$  |
| May       | 49633 | 14984 | 6° 13.9′            | 51846 | 14895 | 1627 | $73^{\circ}\ 12.1'$  |
| June      | 49644 | 14989 | $6^{\circ} 15.4'$   | 51857 | 14899 | 1633 | $73^{\circ} \ 12.0'$ |
| July      | 49643 | 14988 | $6^{\circ} 15.7'$   | 51856 | 14898 | 1635 | 73° 12.0′            |
| August    | 49652 | 14986 | $6^{\circ}\ 16.1'$  | 51864 | 14896 | 1636 | $73^{\circ}\ 12.3'$  |
| September | 49653 | 14983 | $6^{\circ} 16.6'$   | 51864 | 14893 | 1638 | $73^{\circ}\ 12.5'$  |
| October   | 49655 | 14982 | $6^{\circ}$ 17.0′   | 51866 | 14892 | 1640 | 73° 12.6′            |
| November  | 49671 | 14980 | $6^{\circ} 18.3'$   | 51880 | 14889 | 1645 | 73° 13.0′            |
| December  | 49669 | 14985 | $6^{\circ} 18.3'$   | 51880 | 14894 | 1646 | 73° 12.7′            |
| Winter    | 49645 | 14984 | $6^{\circ} \ 15.1'$ | 51857 | 14895 | 1632 | 73° 12.3′            |
| Equinox   | 49643 | 14984 | $6^{\circ}\ 15.1'$  | 51855 | 14894 | 1631 | $73^{\circ}\ 12.3'$  |
| Summer    | 49643 | 14987 | $6^{\circ} 15.3'$   | 51856 | 14897 | 1633 | $73^{\circ}\ 12.1'$  |
| Year      | 49644 | 14985 | 6° 15.2′            | 51856 | 14895 | 1632 | 73° 12.2′            |

### 5 Disturbed days

|           | Z     | Н     | D                  | F     | X     | Y    | I                    |
|-----------|-------|-------|--------------------|-------|-------|------|----------------------|
| January   | 49620 | 14975 | 6° 13.9′           | 51831 | 14886 | 1625 | 73° 12.4′            |
| February  | 49623 | 14968 | $6^{\circ} 16.3'$  | 51831 | 14879 | 1635 | $73^{\circ}\ 12.9'$  |
| March     | 49623 | 14962 | $6^{\circ}\ 16.7'$ | 51829 | 14873 | 1636 | 73° 13.2′            |
| Aprl      | 49624 | 14967 | $6^{\circ} 15.1'$  | 51832 | 14878 | 1630 | 73° 13.0′            |
| May       | 49635 | 14956 | 6° 18.2′           | 51839 | 14865 | 1642 | $73^{\circ} \ 13.9'$ |
| June      | 49637 | 14969 | $6^{\circ} 16.1'$  | 51845 | 14880 | 1634 | 73° 13.1′            |
| July      | 49643 | 14971 | $6^{\circ} 16.5'$  | 51852 | 14881 | 1636 | 73° 13.1′            |
| August    | 49646 | 14967 | 6° 18.8′           | 51853 | 14877 | 1646 | $73^{\circ}\ 13.4'$  |
| September | 49647 | 14969 | $6^{\circ} 18.7'$  | 51854 | 14878 | 1646 | 73° 13.3′            |
| October   | 49653 | 14858 | $6^{\circ} 28.9'$  | 51828 | 14763 | 1677 | $73^{\circ}\ 20.5'$  |
| November  | 49664 | 14947 | $6^{\circ}\ 22.7'$ | 51864 | 14854 | 1660 | $73^{\circ}\ 15.0'$  |
| December  | 49672 | 14966 | $6^{\circ}\ 20.8'$ | 51878 | 14875 | 1654 | 73° 13.9′            |
| Winter    | 49645 | 14964 | $6^{\circ} 18.4'$  | 51851 | 14873 | 1644 | 73° 13.6′            |
| Equinox   | 49637 | 14939 | $6^{\circ} 19.8'$  | 51836 | 14848 | 1647 | $73^{\circ}\ 15.0'$  |
| Summer    | 49640 | 14966 | $6^{\circ}\ 17.4'$ | 51847 | 14876 | 1640 | $73^{\circ} \ 13.4'$ |
| Year      | 49641 | 14956 | $6^{\circ} 18.5'$  | 51845 | 14866 | 1644 | 73° 14.0′            |

# 13 Hourly Means of All Days as Sequenced in Bartels' 27-day Solar Rotation Number

### 13.1 H-Component

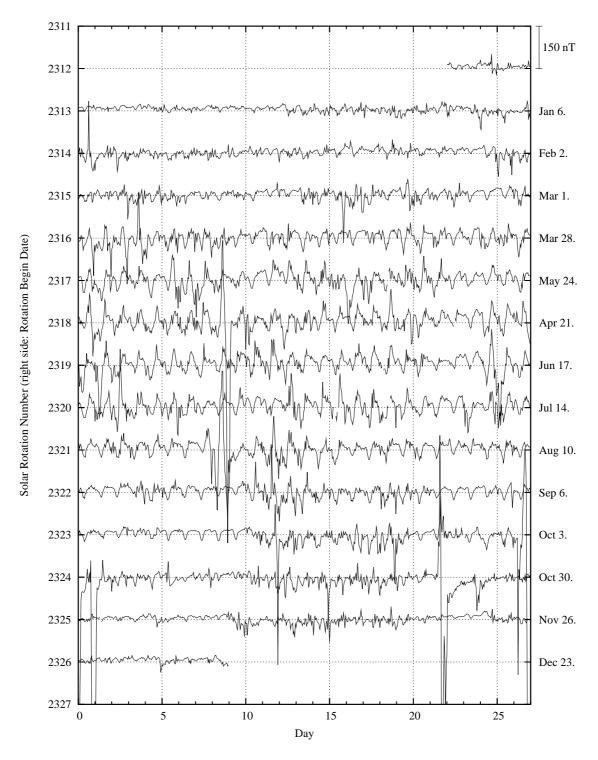


Figure 3: Hourly means of H sequenced in Bartels' solar rotation cycles.

### 13.2 D-Component

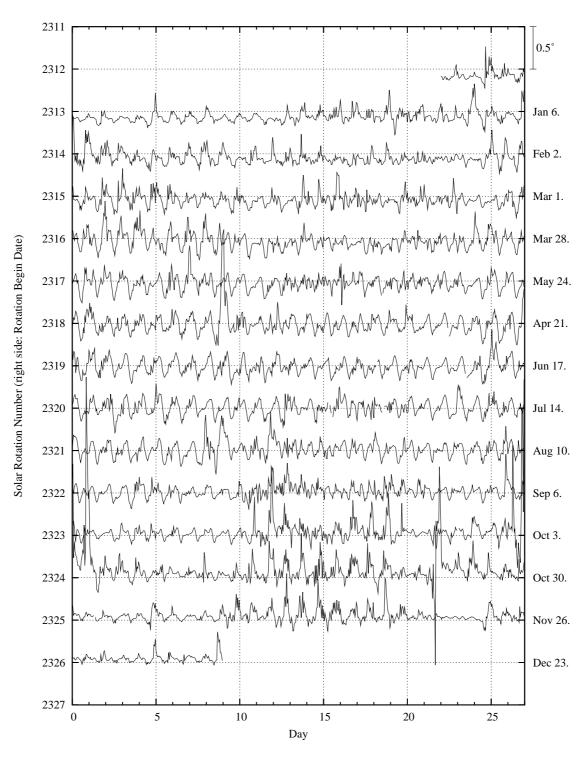


Figure 4: Hourly means of D sequenced in Bartels' solar rotation cycles.

### 13.3 Z-Component

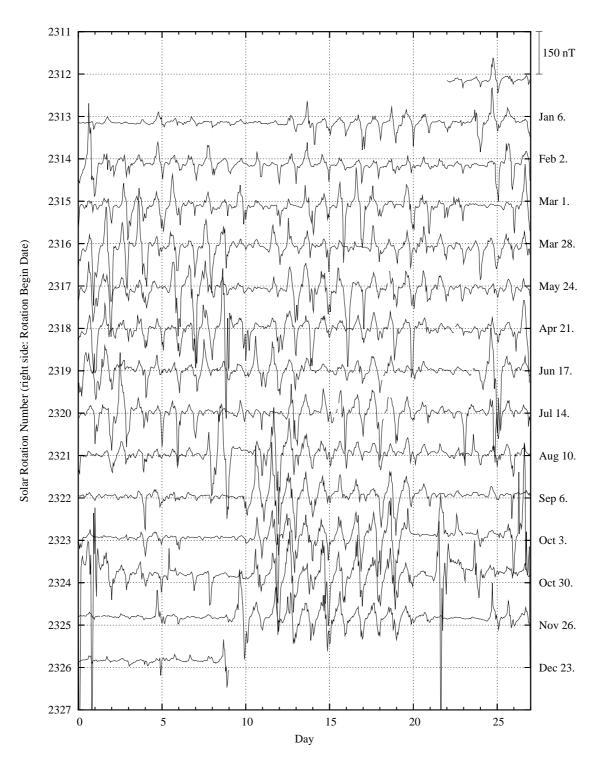


Figure 5: Hourly means of Z sequenced in Bartels' solar rotation cycles.

#### 14 K-Indices

#### Monthly Tables of K-Indices 14.1

| Janua  | ry   |   |  |   |   |   |  |  |   |  | Februa  | ary  |   |  |  |   |  |  |  |  | March   |  |   |   |  |   |  |   |   |  |   |
|--|--|---|--|---|---|---|--|--|---|--|---|--|---|--|--|---|--|--|--|--|---|--|---|---|--|---|--|---|---|--|---|
| Day  |  |   |  |   | Κ |   |  |  |   | Ak   | Day   |  |   |  |  | K   |  |  |  | Ak   | Day   |  |   |   |  | Κ |  |   |   |  | Ak  |
| 1  | 0  | 2   | 2  | 1   |   | 2   | 1  | 3  | 4   | 9  | 1   | 2  | 1   | 1  | 1  | 2   |  |  | 4  | 14   | 1   | 4  | 1   | 2   | 3  |   | 3  | 3   | 4   | 3  | 16  |
| 2  | 2  | 1   | 0  | 1   |   | 1   | 1  | 2  | 1   | 4  | 2   | 5  | 5   | 4  | 3  | 4   |  |  | 6  | 71   | 2   | 2  | 2   | 1   | 2  |   | 3  | 3   | 5   | 3  | 15  |
| 3  | 3  | 1   | 2  | 1   |   | 3   | 6  | 5  | 4   | 25   | 3   | 5  | 2   | 2  | 2  | 4   |  |  | 4  | 22   | 3   | 3  | 1   | 2   | 2  |   | 3  | 5   | 6   | 6  | 32  |
| 4<br>5   | 5<br>2   | 3   | 2  | 2   |   | 2   | 3  | 4  | 3   | 18<br>7  | 4<br>5  | 4  | 4   | 4  | 3  | 2   |  |  | 4  | 24<br>13   | 4<br>5  | 5<br>3   | 3   | 3   | 3  |   | 3  | 4<br>5  | 4   | 4<br>5   | 24<br>23  |
|  |  |   |  |   |   |   |  |  |   |  |   |  |   |  |  |   |  |  |  |  |   |  |   |   |  |   |  |   |   |  |   |
| 6<br>7   | 0  | 1   | 1  | 0   |   | 0   | 1 2  | 1<br>4   | 2   | 2  | 6 7   | 2  | 1 2   | 2  | 3  | 5   |  |  | 3 2  | 12   | 6 7   | 4  | 3   | 3   | 3  |   | 3  | 5   | 4   | 4  | 24  |
| 8  | 1 2  | 1   | 1  | 1   |   | 1   | 1  | 1  | 1   | 7  | 8   | 3  | 2   | 2  | 3  | 3   |  |  | 4  | 11<br>14   | 8   | 3  | 3<br>1  | о<br>1  | 3 2  |   | 2  | 1 3   | 3   | 3  | 14<br>9   |
| 9  | 0  | 0   | 0  | 0   |   | 0   | 1  | 2  | 2   | 2  | 9   | 3  | 2   | 2  | 2  | 2   |  |  | 4  | 16   | 9   | 2  | 2   | 2   | 2  |   | 2  | 2   | 3   | 4  | 11  |
| 10   | 2  | 1   | 1  | 2   |   | 2   | 2  | 3  | 4   | 10   | 10  | 4  | 4   | 3  | 2  | ]   |  |  | 4  | 16   | 10  | 1  | 2   | 2   | 3  |   | 3  | 4   | 4   | 5  | 19  |
| 11   | 3  | 3   | 1  | 1   |   | 1   | 1  | 3  | 3   | 9  | 11  | 3  | 2   | 2  | 2  | 1   | 2  | 2  | 1  | 7  | 11  | 3  | 2   | 2   | 2  |   | 2  | 3   | 2   | 1  | 9   |
| 12   | 2  | 2   | 1  | 1   |   | 2   | 2  | 2  | 2   | 6  | 12  | 1  | 2   | 2  | 2  | 2   |  |  | 4  | 14   | 12  | 2  | 2   | 2   | 2  |   | 2  | 1   | 2   | 4  | 9   |
| 13   | 3  | 1   | 1  | 2   |   | 1   | 1  | 1  | 3   | 7  | 13  | 2  | 1   | 1  | 2  | 1   | 0  | 2  | 4  | 7  | 13  | 4  | 3   | 2   | 3  |   | 4  | 1   | 1   | 1  | 13  |
| 14   | 3  | 2   | 2  | 2   |   | 2   | 2  | 1  | 2   | 8  | 14  | 4  | 2   | 2  | 3  | 5   |  |  | 3  | 15   | 14  | 2  | 2   | 3   | 3  |   | 4  | 2   | 5   | 3  | 18  |
| 15   | 2  | 1   | 1  | 1   |   | 1   | 2  | 1  | 1   | 4  | 15  | 3  | 3   | 2  | 3  | 5   | 5  | 3  | 3  | 18   | 15  | 5  | 3   | 3   | 3  |   | 3  | 4   | 5   | 3  | 25  |
| 16   | 1  | 0   | 1  | 1   |   | 1   | 1  | 2  | 2   | 4  | 16  | 2  | 2   | 3  | 3  | 3   |  |  | 4  | 18   | 16  | 2  | 2   | 3   | 4  |   | 4  | 4   | 6   | 6  | 34  |
| 17   | 1  | 1   | 1  | 2   |   | 2   | 2  | 1  | 1   | 5  | 17  | 2  | 2   | 3  | 3  | 2   |  |  | 3  | 11   | 17  | 2  | 4   | 4   | 3  |   | 5  | 4   | 4   | 6  | 32  |
| 18<br>19   | 1 3  | 2   | 2  | 2   |   | 3   | 2  | 4  | 4   | 13<br>18   | 18<br>19  | 2 2  | 5   | 3<br>1   | 3  | e e                                       |  |  | 4  | 19<br>12   | 18<br>19  | 3  | 4   | 4   | 4  |   | 5  | 2   | 2   | 3  | 23<br>9   |
| 20   | 3  | 3   | 2  | 2   |   | 2   | 3  | 4  | 3   | 14   | 20  | 2  | 2   | 3  | 3  | 2   |  |  | 3  | 16   | 20  | 1  | 3   | 3   | 3  |   | 4  | 5   | 5   | 5  | 27  |
| 21   | 3  | 2   | 3  | 3   |   | 3   | 3  | 4  | 4   | 17   | 21  | 2  | 2   | 2  | 3  | 2   |  |  | 2  | 12   | 21  | 4  | 3   | 3   | 3  |   | 3  | 2   | 4   | 5  | 21  |
| 22   | 3<br>4   | 2   | 2  | 2   |   | 2   | 4  | 4  | 5   | 20   | 21 22   | 2  | 2   | 2  | 2  | 3   |  |  | 3  | 10   | 22  | 3  | 3   | 3   | 3  |   | 2  | 1   | 3   | 4  | 14  |
| 23   | 4  | 3   | 1  | 2   |   | 3   | 3  | 2  | 3   | 13   | 23  | 3  | 2   | 2  | 2  | :   |  |  | 2  | 10   | 23  | 3  | 3   | 3   | 3  |   | 3  | 4   | 4   | 3  | 18  |
| 24   | 3  | 2   | 2  | 2   |   | 2   | 4  | 4  | 4   | 16   | 24  | 1  | 0   | 1  | 2  | 2   | 2  | 2  | 3  | 6  | 24  | 3  | 2   | 2   | 2  |   | 1  | 2   | 2   | 0  | 7   |
| 25   | 3  | 3   | 4  | 4   |   | 4   | 3  | 3  | 3   | 20   | 25  | 2  | 0   | 2  | 1  | 2   | 1  | . 1  | 1  | 4  | 25  | 0  | 1   | 1   | 1  |   | 1  | 2   | 1   | 1  | 3   |
| 26   | 4  | 3   | 2  | 3   |   | 3   | 3  | 4  | 3   | 17   | 26  | 1  | 2   | 2  | 3  | 3   | 2  | 2  | 4  | 11   | 26  | 0  | 2   | 2   | 1  |   | 2  | 2   | 3   | 3  | 8   |
| 27   | 3  | 3   | 1  | 0   |   | 1   | 3  | 2  | 3   | 9  | 27  | 5  | 3   | 2  | 3  | 4   |  |  | 5  | 27   | 27  | 4  | 2   | 4   | 3  |   | 4  | 4   | 3   | 4  | 22  |
| 28   | 4  | 4   | 2  | 2   |   | 2   | 2  | 2  | 3   | 13   | 28  | 3  | 1   | 2  | 3  | 5   | 3  | 3  | 3  | 13   | 28  | 3  | 3   | 3   | 2  |   | 2  | 4   | 4   | 6  | 24  |
| 29<br>30   | 1<br>5   | 1 3   | 2  | 2   |   | 3   | 5<br>5   | 4  | 4   | 17<br>22   |   |  |   |  |  |   |  |  |  |  | 29<br>30  | 4  | 3   | 2   | 3  |   | 3  | 4   | 6<br>6  | 6<br>6   | 33<br>45  |
| 50   |  |   |  |   |   |   |  |  | _   | 22   |   |  |   |  |  |   |  |  |  |  | 50  | U  |   |   |  |   |  |   |   |  |   |
| 9.1  |  |   |  |   |   |   |  |  | 1   | 10   |   |  |   |  |  |   |  |  |  |  | 9.1   |  |   |   |  |   |  |   |   |  |   |
| 31<br>Mean   | 3  | 3   | 2  | 3   |   | 3   | 3  | 2  | 1   | 12   | Moon  |  |   |  |  |   |  |  |  | 15.8   | 31<br>Mean  | 4  | 2   | 2   | 4  |   | 6  | 6   | 5   | 5  | 20.1  |
| 31<br>Mean   | 3  | 3   | 2  | 3   |   | 3   | 3  | 2  | 1   | 12<br>11.3   | Mean  |  |   |  |  |   |  |  |  | 15.8   | 31<br>Mean  | 4  | 2   |   | 4  |   | 6  | 6   | Э   | J  | 20.1  |
|  | 3  | 3   | 2  | 3   |   | 3   | 3  | 2  | 1   |  | Mean  |  |   |  |  |   |  |  |  | 15.8   |   | 4  | 2   |   | 4  |   | 6  | 6   | 5   | J  |   |
| Mean   | 3  | 3   | 2  | 3   | K | 3   | 3  | 2  | 1   |  |   |  |   |  |  | K   |  |  |  | 15.8<br>Ak   | Mean  | 4  | 2   |   | 4  | K | 6  | 6   | 0   |  |   |
| Mean Aprl Day 1  | 5  | 3   | 2  | 2   | К | 2   | 4  | 5  | 2   | 11.3<br>Ak<br>21   | May Day   | 6  | 4   | 4  | 4  | Ę   |  |  | 3  | Ak 33  | June Day 1  | 2  | 3   | 3   | 3  | К | 5  | 3   | 4   | 4  | 20.1<br>Ak<br>21  |
| Aprl Day 1 2   | 5<br>2   | 3 3   | 2 3  | 2 3   | К | 2 3   | 4 4  | 5<br>4   | 2 5   | 11.3<br>Ak<br>21<br>21   | May Day 1 2   | 3  | 4   | 3  | 3  | 5   | 3  | 3 1  | 3  | Ak<br>33<br>15   | June Day 1 2  | 2 3  | 3 4   | 3 5   | 3 5  | K | 5 4  | 3 4   | 4 3   | 4 5  | 20.1<br>Ak<br>21<br>32  |
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| Aprl Day 1 2 3 4   | 5<br>2<br>3<br>4   | 3<br>3<br>2<br>3  | 2<br>3<br>2<br>2   | 2<br>3<br>2<br>3  | K | 2<br>3<br>3<br>4  | 4<br>4<br>3<br>4   | 5<br>4<br>4<br>4   | 2<br>5<br>5<br>5  | Ak 21 21 18 24   | May  Day  1 2 3 4   | 3<br>1<br>1  | 4<br>3<br>1   | 3<br>1<br>1  | 3<br>3<br>3  | 6<br>4<br>4<br>4                          | 3  | 3 1<br>3 2<br>2 1  | 3<br>2<br>2  | Ak<br>33<br>15<br>10<br>6  | June Day 1 2 3 4  | 2<br>3<br>5<br>3   | 3<br>4<br>3<br>2  | 3<br>5<br>3<br>3  | 3<br>5<br>3<br>4   | K | 5<br>4<br>4<br>5   | 3<br>4<br>4<br>4  | 4<br>3<br>4<br>4  | 4<br>5<br>4<br>3   | Ak<br>21<br>32<br>25<br>23  |
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| Aprl Day 1 2 3 4 5   | 5<br>2<br>3<br>4<br>4  | 3<br>3<br>2<br>3<br>3<br>2<br>0   | 2<br>3<br>2<br>2<br>3<br>2<br>1  | 2<br>3<br>2<br>3<br>3<br>2<br>2<br>2<br>2   | K | 2<br>3<br>3<br>4<br>3   | 4<br>4<br>3<br>4<br>4  | 5<br>4<br>4<br>4<br>5<br>2<br>1  | 2<br>5<br>5<br>5<br>3<br>3<br>1   | Ak 21 21 18 24 22 9 5  | May  Day  1 2 3 4 5 6 7   | 3<br>1<br>1<br>1   | 4<br>3<br>1<br>2  | 3<br>1<br>1<br>2<br>3<br>4   | 3<br>3<br>3<br>3<br>4  | 10 cc | 3<br>3<br>2<br>4<br>4<br>5   | 3 1<br>3 2<br>2 1<br>4 3<br>4 5<br>4 4   | 3<br>2<br>2<br>3   | Ak<br>33<br>15<br>10<br>6<br>13<br>25<br>31  | Mean  June  Day  1 2 3 4 5 6 7  | 2<br>3<br>5<br>3<br>2  | 3<br>4<br>3<br>2<br>2<br>2<br>2<br>3  | 3<br>5<br>3<br>2<br>3<br>3  | 3<br>5<br>3<br>4<br>2  | К | 5<br>4<br>4<br>5<br>3<br>4<br>5  | 3<br>4<br>4<br>4<br>4<br>4<br>4<br>4  | 4<br>3<br>4<br>4<br>3<br>3<br>3<br>3  | 4<br>5<br>4<br>3<br>2<br>3<br>4  | Ak 21 32 25 23 12 16 25   |
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|------|---|---|---|---|---|---|---|---|---|------|-------|---|---|---|---|---|---|---|---|------|--------|------|---|---|---|---|---|---|---|------|
| Day  |   |   |   |   | Κ |   |   |   |   | Ak   | Day   |   |   |   |   | Κ |   |   |   | Ak   | Day    |      |   |   |   | K |   |   |   | Ak   |
| 1    | 2 | 2 | 2 | 2 |   | 4 | 2 | 2 | 2 | 10   | 1     | 5 | 4 | 4 | 4 | 5 | 3 | 4 | 6 | 37   | 1      | 2    | 3 | 3 | 2 | 2 | 3 | 4 | 2 | 13   |
| 2    | 1 | 2 | 3 | 3 |   | 3 | 3 | 3 | 2 | 12   | 2     | 4 | 3 | 3 | 3 | 3 | 5 | 4 | 4 | 24   | 2      | 3    | 2 | 2 | 3 | 4 | 2 | 2 | 2 | 12   |
| 3    | 3 | 2 | 2 | 2 |   | 4 | 4 | 4 | 4 | 18   | 3     | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 13   | 3      | 3    | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 16   |
| 4    | 4 | 4 | 3 | 5 |   | 4 | 4 | 3 | 3 | 25   | 4     | 1 | 2 | 2 | 2 | 1 | 3 |   | 3 | 9    | 4      | 3    | 3 | 3 | 3 | 4 | 3 | 4 | 5 | 22   |
| 5    | 3 | 3 | 3 | 3 |   | 5 | 3 | 3 | 2 | 18   | 5     | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 8    | 5      | 3    | 3 | 3 | 3 | 3 | 4 | 2 | 1 | 14   |
| 6    | 2 | 2 | 2 | 2 |   | 4 | 4 | 2 | 2 | 12   | 6     | 6 | 4 | 4 | 4 | 4 | 2 |   | 2 | 26   | 6      | 2    | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 9    |
| 7    | 3 | 2 | 3 | 3 |   | 4 | 3 | 2 | 1 | 13   | 7     | 1 | 2 | 2 | 3 | 5 | 5 | 7 | 5 | 40   | 7      | 2    | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 5    |
| 8    | 1 | 0 | 1 | 2 |   | 3 | 2 | 1 | 0 | 5    | 8     | 5 | 5 | 4 | 4 | 4 | 4 |   | 3 | 33   | 8      | 1    | 0 | 1 | 1 | 3 | 2 | 2 | 3 | 7    |
| 9    | 1 | 1 | 1 | 2 |   | 2 | 1 | 2 | 1 | 5    | 9     | 3 | 2 | 3 | 3 | 3 | 3 |   | 4 | 16   | 9      | 2    | 1 | 2 | 4 | 4 | 3 | 4 | 4 | 18   |
| 10   | 1 | 1 | 2 | 3 |   |   | 1 | 2 | 3 | 8    | 10    | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 10   | 10     | 4    | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 19   |
| 11   | 3 | 3 | 4 | 4 |   | 5 | 5 | 6 | 6 | 43   | 11    | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 12   | 11     | 4    | 3 | 1 | 2 | 2 | 3 | 3 | 3 | 13   |
| 12   | 5 | 6 | 4 | 3 |   | 4 | 4 | 4 | 4 | 35   | 12    | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 24   | 12     | 2    | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 8    |
| 13   | 3 | 3 | 3 | 3 |   | 2 | 3 | 2 | 2 | 12   | 13    | 3 | 4 | 3 | 2 | 4 | 3 | 2 | 3 | 16   | 13     | 3    | 2 | 2 | 2 | 1 | 1 | 2 | 3 | 8    |
| 14   | 2 | 2 | 2 | 2 |   | 4 | 3 | 3 | 4 | 14   | 14    | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 13   | 14     | 2    | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 5    |
| 15   | 4 | 4 | 3 | 4 |   | 3 | 2 | 5 | 5 | 27   | 15    | 2 | 2 | 2 | 3 | 3 | 4 | 3 | 3 | 14   | 15     | 1    | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4    |
| 16   | 4 | 4 | 5 | 6 |   | 6 | 4 | 4 | 5 | 46   | 16    | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 1 | 9    | 16     | 4    | 3 | 3 | 3 | 6 | 4 | 5 | 4 | 32   |
| 17   | 4 | 3 | 2 | 4 |   | 4 | 3 | 3 | 3 | 19   | 17    | 1 | 0 | 1 | 2 | 6 | 4 | 3 | 6 | 27   | 17     | 5    | 4 | 4 | 5 | 7 | 6 | 5 | 6 | 62   |
| 18   | 3 | 3 | 2 | 2 |   | 3 | 3 | 3 | 4 | 15   | 18    | 6 | 6 | 5 | 7 | 8 | 9 | 6 | 6 | 144  | 18     | 5    | 4 | 3 | 5 | 4 | 5 | 5 | 5 | 39   |
| 19   | 4 | 3 | 3 | 4 |   | 5 | 4 | 3 | 6 | 32   | 19    | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 22   | 19     | 4    | 3 | 4 | 5 | 4 | 5 | 5 | 3 | 32   |
| 20   | 4 | 3 | 3 | 3 |   | 4 | 3 | 3 | 4 | 20   | 20    | 1 | 2 | 3 | 3 | 3 | 4 | 2 | 4 | 15   | 20     | 3    | 4 | 3 | 3 | 4 | 5 | 2 | 3 | 21   |
| 21   | 4 | 2 | 2 | 2 |   | 2 | 1 | 2 | 1 | 9    | 21    | 4 | 4 | 4 | 5 | 5 | 6 | 5 | 6 | 48   | 21     | 4    | 2 | 3 | 3 | 4 | 4 | 4 | 3 | 20   |
| 22   | 2 | 1 | 2 | 3 |   | 2 | 2 | 3 | 1 | 8    | 22    | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 35   | 22     | 3    | 2 | 2 | 3 | 3 | 4 | 5 | 1 | 17   |
| 23   | 2 | 2 | 2 | 2 |   | 3 | 4 | 3 | 3 | 13   | 23    | 4 | 5 | 4 | 4 | 4 | 5 |   | 3 | 28   | 23     | 2    | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 15   |
| 24   | 2 | 1 | 1 | 1 |   | 2 | 3 | 2 | 3 | 8    | 24    | 2 | 2 | 3 | 4 | 3 | 3 |   | 3 | 16   | 24     | 5    | 4 | 4 | 3 | 5 | 4 | 5 | 5 | 36   |
| 25   | 1 | 1 | 2 | 3 |   | 3 | 2 | 2 | 1 | 8    | 25    | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 15   | 25     | 4    | 3 | 3 | 4 | 4 | 5 | 4 | 4 | 27   |
| 26   | 2 | 3 | 3 | 3 |   | 5 | 6 | 6 | 5 | 39   | 26    | 3 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 13   | 26     | 2    | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 13   |
| 27   | 5 | 3 | 4 | 4 |   | 4 | 3 | 2 | 2 | 22   | 27    | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 9    | 27     | 3    | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 6    |
| 28   | 2 | 2 | 2 | 3 |   | 5 | 4 | 3 | 3 | 18   | 28    | 3 | 2 | 3 | 4 | 3 | 4 |   | 3 | 17   | 28     | 1    | 0 | 2 | 1 | 2 | 3 | 2 | 1 | 6    |
| 29   | 3 | 4 | 3 | 4 |   | 5 | 5 | 5 | 5 | 35   | 29    | 1 | 1 | 1 | 3 | 3 | 4 | 5 | 2 | 15   | 29     | 1    | 1 | 0 | 1 | 1 | 1 | 1 | 3 | 4    |
| 30   | 3 | 3 | 3 | 4 |   | 4 | 4 | 4 | 4 | 23   | 30    | 3 | 4 | 2 | 3 | 3 | 2 | 2 | 1 | 12   | 30     | 0    | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 4    |
| 31   | 4 | 4 | 3 | 5 |   | 5 | 5 | 4 | 4 | 33   | 31    | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 6    |        |      |   |   |   |   |   |   |   |      |
| Mean |   |   |   |   |   |   |   |   |   | 19.5 | Mean  |   |   |   |   |   |   |   |   | 23.4 | Mean   |      |   |   |   |   |   |   |   | 16.9 |

| Octob | er |   |   |   |   |   |   |   |   |      | Novem | ber |   |   |   |    |   |   |   |   |      | Decem | ıber |   |   |   |   |   |   |   |      |
|-------|----|---|---|---|---|---|---|---|---|------|-------|-----|---|---|---|----|---|---|---|---|------|-------|------|---|---|---|---|---|---|---|------|
| Day   |    |   |   |   | K |   |   |   |   | Ak   | Day   |     |   |   |   | K  |   |   |   |   | Ak   | Day   |      |   |   |   | K |   |   |   | Ak   |
| 1     | 3  | 1 | 1 | 1 |   | 1 | 2 | 4 | 5 | 14   | 1     | 4   | 4 | 3 | 3 |    | 3 | 3 | 4 | 4 | 21   | 1     | 3    | 3 | 2 | 2 | 1 | 2 | 0 | 3 | 9    |
| 2     | 3  | 2 | 2 | 1 |   | 1 | 2 | 3 | 3 | 9    | 2     | 3   | 3 | 3 | 2 |    | 2 | 3 | 5 | 3 | 17   | 2     | 2    | 1 | 2 | 2 | 1 | 0 | 1 | 1 | 4    |
| 3     | 3  | 3 | 3 | 2 |   | 3 | 4 | 4 | 2 | 16   | 3     | 3   | 3 | 3 | 3 |    | 3 | 3 | 3 | 3 | 15   | 3     | 1    | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 4    |
| 4     | 2  | 1 | 2 | 2 |   | 2 | 1 | 0 | 0 | 4    | 4     | 3   | 3 | 6 | 6 |    | 3 | 2 | 3 | 2 | 29   | 4     | 1    | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 5    |
| 5     | 0  | 0 | 0 | 0 | ( | 0 | 1 | 3 | 4 | 6    | 5     | 1   | 0 | 1 | 2 |    | 1 | 2 | 2 | 3 | 6    | 5     | 3    | 3 | 3 | 3 | 5 | 5 | 4 | 5 | 29   |
| 6     | 2  | 1 | 1 | 2 |   | 2 | 2 | 3 | 3 | 8    | 6     | 3   | 1 | 1 | 1 |    | 2 | 3 | 5 | 4 | 15   | 6     | 4    | 3 | 2 | 4 | 2 | 5 | 3 | 4 | 22   |
| 7     | 4  | 2 | 3 | 3 |   | 3 | 4 | 3 | 3 | 17   | 7     | 2   | 2 | 2 | 2 | :  | 2 | 2 | 2 | 2 | 7    | 7     | 3    | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 11   |
| 8     | 2  | 1 | 2 | 2 |   | 2 | 1 | 1 | 3 | 7    | 8     | 1   | 1 | 1 | 2 | ;  | 3 | 4 | 3 | 2 | 10   | 8     | 2    | 3 | 2 | 3 | 4 | 5 | 6 | 5 | 31   |
| 9     | 3  | 2 | 1 | 2 | : | 2 | 1 | 0 | 0 | 5    | 9     | 2   | 2 | 3 | 3 |    | 6 | 5 | 6 | 3 | 33   | 9     | 3    | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 26   |
| 10    | 0  | 0 | 0 | 0 |   | 1 | 1 | 1 | 2 | 2    | 10    | 3   | 3 | 2 | 3 | ;  | 3 | 4 | 5 | 5 | 24   | 10    | 5    | 3 | 3 | 3 | 4 | 6 | 6 | 5 | 41   |
| 11    | 1  | 0 | 0 | 0 | ( | 0 | 0 | 1 | 1 | 1    | 11    | 5   | 4 | 5 | 5 | į  | 5 | 6 | 5 | 4 | 47   | 11    | 5    | 3 | 4 | 4 | 5 | 5 | 4 | 4 | 33   |
| 12    | 1  | 0 | 0 | 1 |   | 1 | 1 | 2 | 2 | 3    | 12    | 4   | 3 | 3 | 3 | ;  | 3 | 5 | 5 | 2 | 24   | 12    | 3    | 3 | 3 | 2 | 3 | 4 | 4 | 4 | 19   |
| 13    | 3  | 2 | 1 | 2 |   | 2 | 3 | 5 | 6 | 23   | 13    | 3   | 3 | 4 | 4 | į  | 5 | 6 | 7 | 6 | 54   | 13    | 4    | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 23   |
| 14    | 3  | 3 | 4 | 4 | 4 | 4 | 4 | 9 | 8 | 97   | 14    | 4   | 3 | 3 | 3 | 4  | 4 | 3 | 5 | 4 | 24   | 14    | 4    | 3 | 3 | 3 | 4 | 5 | 5 | 4 | 28   |
| 15    | 4  | 4 | 4 | 3 | 4 | 4 | 5 | 5 | 5 | 33   | 15    | 2   | 3 | 4 | 4 | į  | 5 | 6 | 4 | 5 | 35   | 15    | 4    | 3 | 3 | 3 | 5 | 4 | 3 | 2 | 21   |
| 16    | 5  | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 25   | 16    | 3   | 4 | 4 | 4 | į  | 5 | 5 | 5 | 5 | 36   | 16    | 2    | 1 | 2 | 3 | 1 | 3 | 2 | 3 | 9    |
| 17    | 4  | 3 | 4 | 3 | 4 | 4 | 2 | 3 | 4 | 20   | 17    | 4   | 4 | 4 | 3 | į. | 5 | 6 | 6 | 4 | 41   | 17    | 2    | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 6    |
| 18    | 3  | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 20   | 18    | 4   | 3 | 3 | 3 | 4  | 4 | 5 | 3 | 2 | 21   | 18    | 1    | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 2    |
| 19    | 3  | 3 | 3 | 4 | ( | 6 | 6 | 6 | 6 | 49   | 19    | 2   | 2 | 2 | 2 | ;  | 3 | 4 | 4 | 1 | 13   | 19    | 0    | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 2    |
| 20    | 3  | 2 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 25   | 20    | 2   | 2 | 5 | 6 | 9  | 9 | 9 | 9 | 8 | 198  | 20    | 0    | 1 | 1 | 3 | 3 | 6 | 3 | 3 | 18   |
| 21    | 4  | 3 | 3 | 4 | ( | 6 | 8 | 5 | 7 | 74   | 21    | 7   | 6 | 5 | 3 | :  | 2 | 3 | 4 | 4 | 45   | 21    | 4    | 3 | 3 | 3 | 2 | 4 | 4 | 4 | 20   |
| 22    | 5  | 4 | 3 | 3 | 4 | 4 | 5 | 4 | 1 | 26   | 22    | 4   | 2 | 2 | 2 | ;  | 3 | 8 | 7 | 6 | 65   | 22    | 2    | 2 | 3 | 3 | 3 | 4 | 3 | 3 | 15   |
| 23    | 2  | 1 | 2 | 2 |   | 2 | 1 | 0 | 0 | 4    | 23    | 4   | 3 | 3 | 2 | ;  | 3 | 2 | 5 | 4 | 20   | 23    | 2    | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 7    |
| 24    | 0  | 2 | 2 | 2 | 4 | 4 | 8 | 6 | 4 | 49   | 24    | 2   | 2 | 2 | 2 |    | 4 | 3 | 3 | 3 | 13   | 24    | 1    | 1 | 1 | 1 | 1 | 3 | 2 | 3 | 7    |
| 25    | 3  | 3 | 3 | 3 | 4 | 4 | 4 | 1 | 4 | 18   | 25    | 3   | 3 | 3 | 2 | ;  | 3 | 4 | 3 | 3 | 16   | 25    | 2    | 0 | 1 | 1 | 2 | 3 | 0 | 1 | 5    |
| 26    |    | 2 | 2 | 2 |   | 1 | 1 | 4 | 4 | 12   | 26    | 3   | 2 | 2 | 1 |    | 2 | 2 | 2 | 3 | 9    | 26    | 3    | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 7    |
| 27    | 3  | 3 | 3 | 2 |   | 2 | 2 | 2 | 1 | 10   | 27    | 2   | 1 |   | 1 |    | 1 | 1 | 2 | 2 | 5    | 27    | 1    | 2 | 1 | 3 | 1 | 1 | 2 | 5 | 11   |
| 28    | 3  | 3 | 3 | 4 |   | 2 | 5 | 4 | 5 | 25   | 28    | 2   | 2 | 1 | 2 | ;  | 3 | 1 | 0 | 0 | 5    | 28    | 3    | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 11   |
| 29    | 4  | 4 | 9 | 7 | 9 | 9 | 9 | 9 | 9 | 274  | 29    | 2   | 1 | 1 | 1 |    | 1 | 1 | 1 | 2 | 4    | 29    | 1    | 0 | 1 | 1 | 1 | 3 | 1 | 1 | 4    |
| 30    | 9  | 8 | 6 | 5 | ( | 6 | 7 | 9 | 9 | 224  | 30    | 1   | 2 | 1 | 1 | :  | 2 | 4 | 4 | 4 | 13   | 30    | 1    | 0 | 1 | 0 | 1 | 1 | 3 | 3 | 5    |
| 31    | 9  | 8 | 7 | 7 | , | 7 | 5 | 5 | 5 | 151  |       |     |   |   |   |    |   |   |   |   |      | 31    | 3    | 2 | 1 | 2 | 3 | 6 | 5 | 4 | 25   |
| Mean  |    |   |   |   |   |   |   |   |   | 40.4 | Mean  |     |   |   |   |    |   |   |   |   | 28.8 | Mean  |      |   |   |   |   |   |   |   | 14.8 |

# 14.2 K-Indices Sequenced in Bartel's Solar Rotation Number

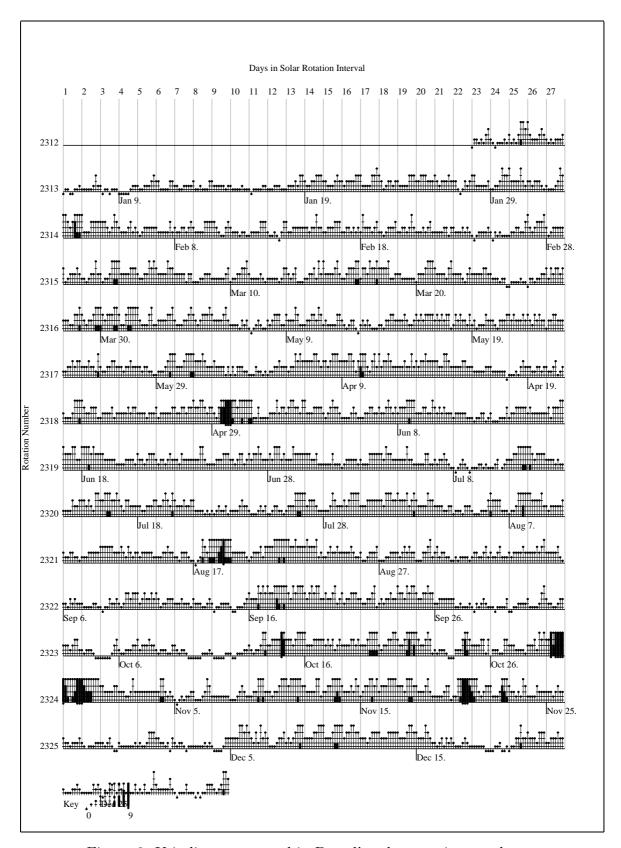


Figure 6: K-indices sequenced in Bartel's solar rotation number

### 14.3 Ak-Indices

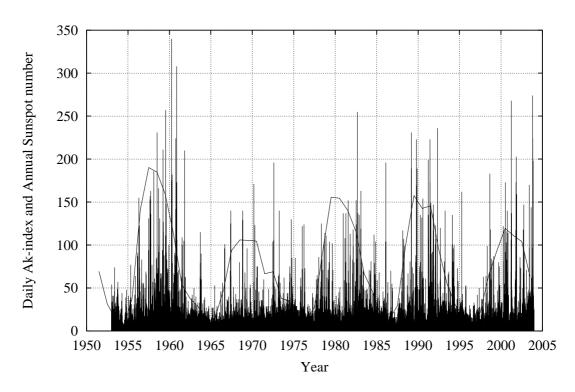


Figure 7: Daily Ak-indices (vertical lines) and sunspots (solid line)

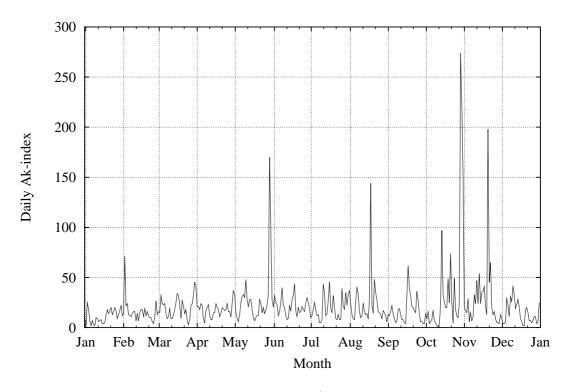


Figure 8: Daily Ak-indices

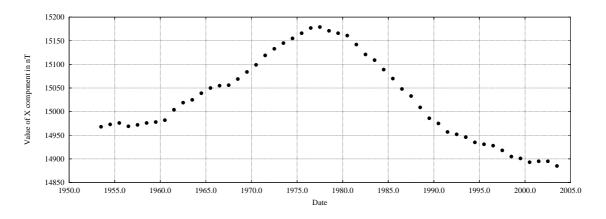
## 14.4 Table of Annual Ak-indices

 $\rm m/M$  denotes sunspot minimum/maximum

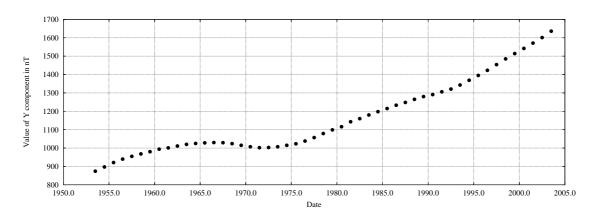
| Year           | Ak |
|----------------|----|
| 1953           | 11 |
| 1954m          | 8  |
| 1955           | 9  |
| 1956           | 14 |
| 1957M          | 16 |
| 1958           | 18 |
| 1959           | 21 |
| 1960           | 22 |
| 1961           | 12 |
| 1962           | 10 |
| 1963           | 10 |
| 1964m          | 8  |
| 1965           | 6  |
| 1966           | 8  |
| 1967           | 10 |
| 1968M          | 11 |
| 1969           | 10 |
| 1970           | 10 |
| 1971           | 9  |
| 1972           | 10 |
| 1973           | 13 |
| 1974           | 15 |
| 1975           | 11 |
| $1976 {\rm m}$ | 10 |
| 1977           | 9  |
| 1978           | 13 |

| Year           | Ak |
|----------------|----|
| 1979M          | 12 |
| 1980           | 9  |
| 1981           | 13 |
| 1982           | 19 |
| 1983           | 15 |
| 1984           | 14 |
| 1985           | 10 |
| $1986 {\rm m}$ | 10 |
| 1987           | 8  |
| 1988           | 11 |
| 1989M          | 16 |
| 1990           | 13 |
| 1991           | 21 |
| 1992           | 15 |
| 1993           | 13 |
| 1994           | 16 |
| 1995           | 11 |
| $1996 {\rm m}$ | 9  |
| 1997           | 8  |
| 1998           | 12 |
| 1999           | 12 |
| 2000M          | 15 |
| 2001           | 14 |
| 2002           | 13 |
| 2003           | 22 |
|                |    |

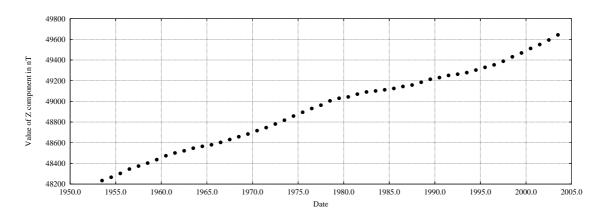
## 15 Annual Means



(a) Annual means for X component

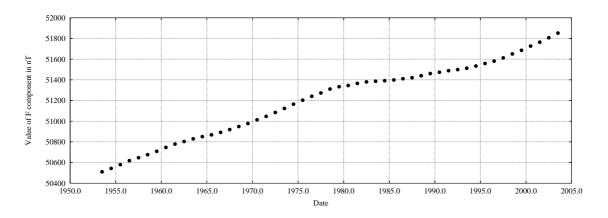


(b) Annual means for Y component

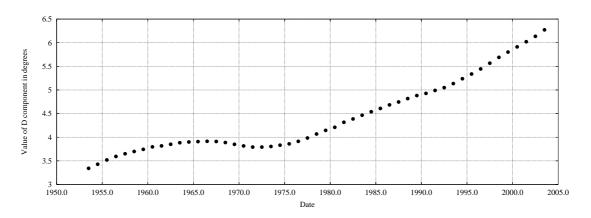


(c) Annual means for Z component

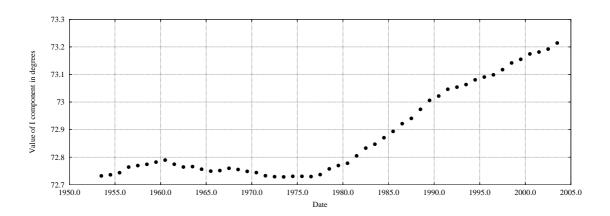
Figure 9: Figures of annual means of X, Y, and Z



### (a) Annual means for F component



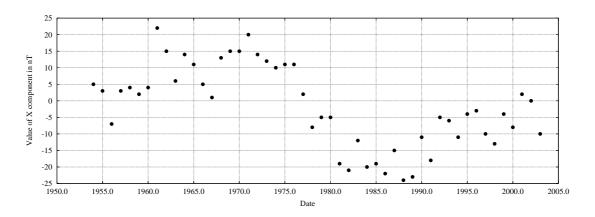
### (b) Annual means for D component



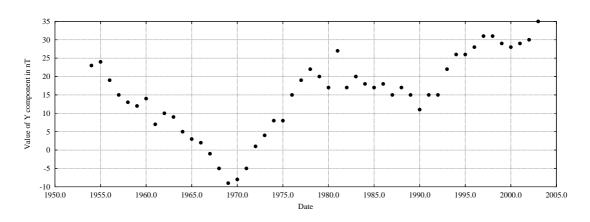
(c) Annual means for I component

Figure 10: Figures of annual means of F, D, and I

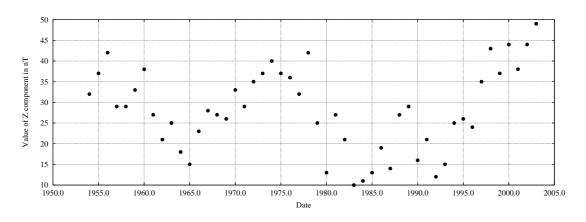
# 16 Secular Variation



(a) Annual change of X component

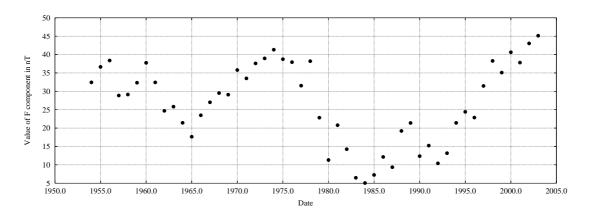


(b) Annual change of Y component

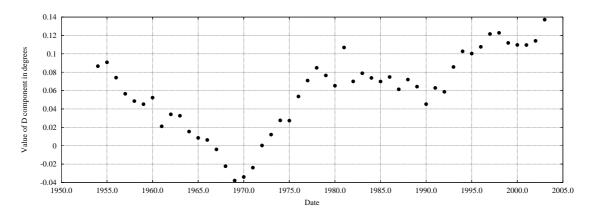


(c) Annual change of Z component

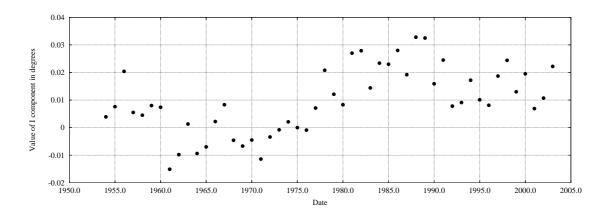
Figure 11: Annual change of components  $X,\,Y,\,\mathrm{and}\,\,X$ 



### (a) Annual change of F component



### (b) Annual change of D component



(c) Annual change of I component

Figure 12: Annual change of components F, D, and I

# 17 Tables of Annual Means

# 17.1 All Days

| Year | X     | Y    | Z     | D                   | Н     | F     | I                    |
|------|-------|------|-------|---------------------|-------|-------|----------------------|
| 1953 | 14968 | 874  | 48234 | 3° 20.5′            | 14993 | 50511 | 72° 43.9′            |
| 1954 | 14973 | 897  | 48266 | 3° 25.7′            | 15000 | 50543 | $72^{\circ} \ 44.2'$ |
| 1955 | 14976 | 921  | 48303 | 3° 31.1′            | 15004 | 50580 | $72^{\circ} \ 44.6'$ |
| 1956 | 14969 | 940  | 48345 | $3^{\circ} \ 35.6'$ | 14998 | 50618 | $72^{\circ} \ 45.8'$ |
| 1957 | 14972 | 955  | 48374 | 3° 39.0′            | 15002 | 50647 | $72^{\circ} \ 46.2'$ |
| 1958 | 14976 | 968  | 48403 | 3° 41.9′            | 15007 | 50676 | $72^{\circ} \ 46.4'$ |
| 1959 | 14978 | 980  | 48436 | $3^{\circ} 44.6'$   | 15010 | 50708 | $72^{\circ} \ 46.9'$ |
| 1960 | 14982 | 994  | 48474 | 3° 47.7′            | 15015 | 50746 | $72^{\circ} \ 47.4'$ |
| 1961 | 15004 | 1001 | 48501 | 3° 49.0′            | 15037 | 50779 | $72^{\circ} \ 46.5'$ |
| 1962 | 15019 | 1011 | 48522 | 3° 51.1′            | 15053 | 50803 | $72^{\circ} \ 45.9'$ |
| 1963 | 15025 | 1020 | 48547 | 3° 53.0′            | 15060 | 50829 | $72^{\circ} \ 45.9'$ |
| 1964 | 15039 | 1025 | 48565 | $3^{\circ} 53.9'$   | 15074 | 50851 | $72^{\circ} \ 45.4'$ |
| 1965 | 15050 | 1028 | 48580 | $3^{\circ} 54.5'$   | 15085 | 50868 | $72^{\circ} \ 45.0'$ |
| 1966 | 15055 | 1030 | 48603 | $3^{\circ} 54.8'$   | 15090 | 50892 | $72^{\circ} \ 45.1'$ |
| 1967 | 15056 | 1029 | 48631 | $3^{\circ} 54.6'$   | 15091 | 50919 | $72^{\circ} \ 45.6'$ |
| 1968 | 15069 | 1024 | 48658 | 3° 53.3′            | 15104 | 50948 | 72° 45.3′            |
| 1969 | 15084 | 1015 | 48684 | 3° 51.0′            | 15118 | 50977 | 72° 44.9′            |
| 1970 | 15099 | 1007 | 48717 | 3° 48.9′            | 15133 | 51013 | $72^{\circ} \ 44.6'$ |
| 1971 | 15119 | 1002 | 48746 | $3^{\circ} 47.5'$   | 15152 | 51047 | $72^{\circ} \ 44.0'$ |
| 1972 | 15133 | 1003 | 48781 | $3^{\circ} 47.5'$   | 15166 | 51084 | 72° 43.8′            |
| 1973 | 15145 | 1007 | 48818 | $3^{\circ} 48.2'$   | 15178 | 51123 | $72^{\circ} \ 43.7'$ |
| 1974 | 15155 | 1015 | 48858 | $3^{\circ} 49.9'$   | 15189 | 51165 | $72^{\circ} \ 43.8'$ |
| 1975 | 15166 | 1023 | 48895 | $3^{\circ} 51.5'$   | 15200 | 51203 | $72^{\circ} \ 43.8'$ |
| 1976 | 15177 | 1038 | 48931 | $3^{\circ} 54.8'$   | 15212 | 51241 | $72^{\circ} \ 43.8'$ |
| 1977 | 15179 | 1057 | 48963 | $3^{\circ} 59.0'$   | 15216 | 51273 | $72^{\circ} \ 44.2'$ |
| 1978 | 15171 | 1079 | 49005 | $4^{\circ} \ 04.1'$ | 15209 | 51311 | $72^{\circ} \ 45.5'$ |
| 1979 | 15166 | 1099 | 49030 | $4^{\circ}~08.7'$   | 15206 | 51334 | $72^{\circ} \ 46.2'$ |
| 1980 | 15161 | 1116 | 49043 | $4^{\circ} 12.6'$   | 15202 | 51345 | $72^{\circ} \ 46.7'$ |
| 1981 | 15142 | 1143 | 49070 | $4^{\circ} 19.0'$   | 15185 | 51366 | $72^{\circ} \ 48.3'$ |
| 1982 | 15121 | 1160 | 49091 | $4^{\circ} \ 23.2'$ | 15165 | 51380 | $72^{\circ} 50.0'$   |
| 1983 | 15109 | 1180 | 49101 | $4^{\circ}\ 27.9'$  | 15155 | 51387 | $72^{\circ} 50.8'$   |
| 1984 | 15089 | 1198 | 49112 | $4^{\circ} \ 32.4'$ | 15136 | 51392 | $72^{\circ}\ 52.2'$  |
| 1985 | 15070 | 1215 | 49125 | $4^{\circ} \ 36.6'$ | 15119 | 51399 | $72^{\circ} 53.6'$   |
| 1986 | 15048 | 1233 | 49144 | 4° 41.1′            | 15098 | 51411 | $72^{\circ} 55.3'$   |
| 1987 | 15033 | 1248 | 49158 | $4^{\circ} 44.7'$   | 15085 | 51420 | $72^{\circ} 56.4'$   |
| 1988 | 15009 | 1265 | 49185 | $4^{\circ} \ 49.1'$ | 15062 | 51440 | $72^{\circ} 58.4'$   |
| 1989 | 14986 | 1280 | 49214 | $4^{\circ} 52.9'$   | 15041 | 51461 | $73^{\circ}\ 00.4'$  |
| 1990 | 14975 | 1291 | 49230 | $4^{\circ} 55.6'$   | 15031 | 51473 | $73^{\circ} \ 01.3'$ |
| 1991 | 14957 | 1306 | 49251 | $4^{\circ} 59.4'$   | 15014 | 51489 | $73^{\circ} \ 02.8'$ |
| 1992 | 14952 | 1321 | 49263 | $5^{\circ} \ 02.9'$ | 15010 | 51499 | $73^{\circ} \ 03.3'$ |
| 1993 | 14946 | 1343 | 49278 | $5^{\circ}~08.1'$   | 15006 | 51512 | 73° 03.8′            |
| 1994 | 14935 | 1369 | 49303 | $5^{\circ} 14.2'$   | 14998 | 51534 | $73^{\circ} \ 04.8'$ |
| 1995 | 14931 | 1395 | 49329 | $5^{\circ} \ 20.3'$ | 14996 | 51558 | $73^{\circ}\ 05.4'$  |
| 1996 | 14928 | 1423 | 49353 | $5^{\circ} 26.7'$   | 14996 | 51581 | $73^{\circ} \ 05.9'$ |
| 1997 | 14918 | 1454 | 49388 | $5^{\circ} 34.0'$   | 14989 | 51612 | 73° 07.1′            |
| 1998 | 14905 | 1485 | 49431 | $5^{\circ} 41.4'$   | 14979 | 51651 | 73° 08.5′            |
| 1999 | 14901 | 1514 | 49468 | $5^{\circ} 48.1'$   | 14978 | 51686 | $73^{\circ} \ 09.3'$ |
| 2000 | 14893 | 1542 | 49512 | $5^{\circ} 54.7'$   | 14973 | 51726 | $73^{\circ}\ 10.5'$  |
| 2001 | 14895 | 1571 | 49550 | $6^{\circ} 01.2'$   | 14978 | 51764 | $73^{\circ}\ 10.9'$  |
| 2002 | 14895 | 1601 | 49594 | $6^{\circ} \ 08.1'$ | 14981 | 51807 | 73° 11.5′            |
| 2003 | 14885 | 1636 | 49643 | $6^{\circ} 16.3'$   | 14975 | 51852 | $73^{\circ}\ 12.9'$  |

# 17.2 Quiet Days

| Year | X     | Y    | Z     | D                   | Н     | F     | I                      |
|------|-------|------|-------|---------------------|-------|-------|------------------------|
| 1953 | 14975 | 872  | 48235 | 3° 20.0′            | 15000 | 50514 | 72° 43.5′              |
| 1954 | 14977 | 895  | 48266 | $3^{\circ} \ 25.2'$ | 15004 | 50544 | $72^{\circ} \ 43.9'$   |
| 1955 | 14980 | 919  | 48302 | 3° 30.6′            | 15008 | 50580 | $72^{\circ} \ 44.4'$   |
| 1956 | 14978 | 936  | 48343 | $3^{\circ} 34.6'$   | 15007 | 50619 | $72^{\circ} \ 45.2'$   |
| 1957 | 14978 | 951  | 48372 | $3^{\circ} \ 38.0'$ | 15008 | 50647 | $72^{\circ} \ 45.8'$   |
| 1958 | 14984 | 965  | 48400 | 3° 41.1′            | 15015 | 50676 | $72^{\circ} \ 45.9'$   |
| 1959 | 14986 | 976  | 48433 | 3° 43.6′            | 15018 | 50708 | $72^{\circ} \ 46.4'$   |
| 1960 | 14993 | 989  | 48474 | $3^{\circ} \ 46.4'$ | 15026 | 50749 | $72^{\circ} \ 46.7'$   |
| 1962 | 15022 | 1009 | 48523 | $3^{\circ} 50.6'$   | 15056 | 50805 | $72^{\circ} \ 45.7'$   |
| 1963 | 15032 | 1018 | 48547 | $3^{\circ} 52.5'$   | 15066 | 50831 | $72^{\circ} \ 45.5'$   |
| 1964 | 15042 | 1024 | 48566 | 3° 53.7′            | 15077 | 50852 | $72^{\circ} \ 45.2'$   |
| 1965 | 15051 | 1027 | 48581 | $3^{\circ} 54.2'$   | 15086 | 50869 | $72^{\circ} 44.9'$     |
| 1966 | 15059 | 1028 | 48602 | $3^{\circ} 54.3'$   | 15094 | 50892 | $72^{\circ} 44.8'$     |
| 1967 | 15062 | 1028 | 48630 | $3^{\circ} 54.3'$   | 15097 | 50920 | $72^{\circ} \ 45.2'$   |
| 1968 | 15073 | 1022 | 48657 | $3^{\circ} 52.7'$   | 15108 | 50948 | $72^{\circ} \ 45.1'$   |
| 1969 | 15089 | 1013 | 48684 | $3^{\circ} 50.4'$   | 15123 | 50979 | $72^{\circ} \ 44.6'$   |
| 1970 | 15104 | 1005 | 48715 | 3° 48.4′            | 15137 | 51013 | $72^{\circ} \ 44.3'$   |
| 1971 | 15124 | 1001 | 48746 | 3° 47.2′            | 15157 | 51048 | 72° 43.6′              |
| 1972 | 15139 | 1001 | 48780 | $3^{\circ} 47.0'$   | 15172 | 51085 | 72° 43.4′              |
| 1973 | 15151 | 1004 | 48819 | $3^{\circ} 47.5'$   | 15184 | 51126 | $72^{\circ} \ 43.4'$   |
| 1974 | 15162 | 1012 | 48859 | $3^{\circ} 49.1'$   | 15196 | 51167 | $72^{\circ} \ 43.4'$   |
| 1975 | 15171 | 1020 | 48896 | $3^{\circ} 50.8'$   | 15205 | 51206 | $72^{\circ} \ 43.5'$   |
| 1976 | 15182 | 1035 | 48930 | $3^{\circ} 54.0'$   | 15217 | 51242 | $72^{\circ} \ 43.5'$   |
| 1977 | 15184 | 1054 | 48963 | $3^{\circ} 58.2'$   | 15221 | 51274 | $72^{\circ} \ 43.9'$   |
| 1978 | 15178 | 1075 | 49003 | $4^{\circ} \ 03.1'$ | 15216 | 51311 | $72^{\circ} \ 45.0'$   |
| 1979 | 15171 | 1096 | 49028 | $4^{\circ} \ 07.9'$ | 15211 | 51333 | $72^{\circ} \ 45.8'$   |
| 1980 | 15163 | 1115 | 49042 | $4^{\circ} 12.3'$   | 15204 | 51345 | $72^{\circ} \ 46.5'$   |
| 1981 | 15148 | 1140 | 49067 | 4° 18.2′            | 15191 | 51365 | 72° 47.9′              |
| 1982 | 15128 | 1157 | 49090 | 4° 22.4′            | 15172 | 51381 | 72° 49.5′              |
| 1983 | 15115 | 1176 | 49101 | $4^{\circ} \ 26.9'$ | 15161 | 51388 | $72^{\circ} 50.5'$     |
| 1984 | 15095 | 1195 | 49113 | $4^{\circ} \ 31.6'$ | 15142 | 51394 | $72^{\circ} 51.9'$     |
| 1985 | 15076 | 1212 | 49125 | $4^{\circ} \ 35.8'$ | 15125 | 51401 | $72^{\circ} 53.2'$     |
| 1986 | 15055 | 1230 | 49144 | $4^{\circ} \ 40.2'$ | 15105 | 51413 | $72^{\circ} 54.9'$     |
| 1987 | 15037 | 1246 | 49158 | 4° 44.2′            | 15089 | 51422 | $72^{\circ} 56.2'$     |
| 1988 | 15014 | 1262 | 49182 | 4° 48.3′            | 15067 | 51438 | 72° 58.1′              |
| 1989 | 14995 | 1276 | 49213 | 4° 51.8′            | 15049 | 51463 | $72^{\circ} 59.8'$     |
| 1990 | 14982 | 1288 | 49227 | 4° 54.8′            | 15037 | 51472 | 73° 00.8′              |
| 1991 | 14965 | 1302 | 49248 | 4° 58.3′            | 15022 | 51488 | 73° 02.2′              |
| 1992 | 14959 | 1318 | 49261 | 5° 02.1′            | 15017 | 51499 | 73° 02.8′              |
| 1993 | 14952 | 1341 | 49277 | $5^{\circ} 07.5'$   | 15012 | 51513 | $73^{\circ} \ 03.4'$   |
| 1994 | 14944 | 1365 | 49304 | 5° 13.1′            | 15006 | 51537 | 73° 04.3′              |
| 1995 | 14937 | 1392 | 49328 | 5° 19.4′            | 15002 | 51559 | 73° 05.1′              |
| 1996 | 14934 | 1421 | 49353 | 5° 26.1′            | 15001 | 51583 | 73° 05.6′              |
| 1997 | 14923 | 1452 | 49388 | 5° 33.4′            | 14993 | 51614 | 73° 06.7′              |
| 1998 | 14910 | 1484 | 49431 | 5° 41.0′            | 14984 | 51652 | 73° 08.2′              |
| 1999 | 14905 | 1512 | 49467 | 5° 47.5′            | 14981 | 51686 | 73° 09.0′              |
| 2000 | 14900 | 1540 | 49510 | 5° 54.1′            | 14979 | 51726 | 73° 10.0′              |
| 2001 | 14901 | 1569 | 49548 | 6° 00.6′            | 14983 | 51764 | 73° 10.5′              |
| 2002 | 14901 | 1599 | 49593 | 6° 07.5′            | 14987 | 51808 | 73° 11.1′<br>73° 12.2′ |
| 2003 | 14896 | 1632 | 49644 | 6° 15.1′            | 14985 | 51856 | (5) 12.2               |

# 17.3 Disturbed Days

| Year | X     | Y    | Z     | D                   | Н     | F     | I                      |
|------|-------|------|-------|---------------------|-------|-------|------------------------|
| 1953 | 14975 | 872  | 48235 | 3° 20.0′            | 15000 | 50514 | 72° 43.5′              |
| 1954 | 14977 | 895  | 48266 | $3^{\circ} \ 25.2'$ | 15004 | 50544 | $72^{\circ} \ 43.9'$   |
| 1955 | 14980 | 919  | 48302 | 3° 30.6′            | 15008 | 50580 | $72^{\circ} \ 44.4'$   |
| 1956 | 14978 | 936  | 48343 | $3^{\circ} 34.6'$   | 15007 | 50619 | $72^{\circ} \ 45.2'$   |
| 1957 | 14978 | 951  | 48372 | $3^{\circ} \ 38.0'$ | 15008 | 50647 | $72^{\circ} \ 45.8'$   |
| 1958 | 14984 | 965  | 48400 | 3° 41.1′            | 15015 | 50676 | $72^{\circ} \ 45.9'$   |
| 1959 | 14986 | 976  | 48433 | 3° 43.6′            | 15018 | 50708 | $72^{\circ} \ 46.4'$   |
| 1960 | 14993 | 989  | 48474 | $3^{\circ} \ 46.4'$ | 15026 | 50749 | $72^{\circ} \ 46.7'$   |
| 1962 | 15022 | 1009 | 48523 | $3^{\circ} 50.6'$   | 15056 | 50805 | $72^{\circ} \ 45.7'$   |
| 1963 | 15032 | 1018 | 48547 | $3^{\circ} 52.5'$   | 15066 | 50831 | $72^{\circ} \ 45.5'$   |
| 1964 | 15042 | 1024 | 48566 | 3° 53.7′            | 15077 | 50852 | $72^{\circ} \ 45.2'$   |
| 1965 | 15051 | 1027 | 48581 | $3^{\circ} 54.2'$   | 15086 | 50869 | $72^{\circ} 44.9'$     |
| 1966 | 15059 | 1028 | 48602 | $3^{\circ} 54.3'$   | 15094 | 50892 | $72^{\circ} 44.8'$     |
| 1967 | 15062 | 1028 | 48630 | $3^{\circ} 54.3'$   | 15097 | 50920 | $72^{\circ} \ 45.2'$   |
| 1968 | 15073 | 1022 | 48657 | $3^{\circ} 52.7'$   | 15108 | 50948 | $72^{\circ} \ 45.1'$   |
| 1969 | 15089 | 1013 | 48684 | $3^{\circ} 50.4'$   | 15123 | 50979 | $72^{\circ} \ 44.6'$   |
| 1970 | 15104 | 1005 | 48715 | 3° 48.4′            | 15137 | 51013 | $72^{\circ} \ 44.3'$   |
| 1971 | 15124 | 1001 | 48746 | 3° 47.2′            | 15157 | 51048 | 72° 43.6′              |
| 1972 | 15139 | 1001 | 48780 | $3^{\circ} 47.0'$   | 15172 | 51085 | 72° 43.4′              |
| 1973 | 15151 | 1004 | 48819 | $3^{\circ} 47.5'$   | 15184 | 51126 | $72^{\circ} \ 43.4'$   |
| 1974 | 15162 | 1012 | 48859 | $3^{\circ} 49.1'$   | 15196 | 51167 | $72^{\circ} \ 43.4'$   |
| 1975 | 15171 | 1020 | 48896 | $3^{\circ} 50.8'$   | 15205 | 51206 | $72^{\circ} \ 43.5'$   |
| 1976 | 15182 | 1035 | 48930 | $3^{\circ} 54.0'$   | 15217 | 51242 | $72^{\circ} \ 43.5'$   |
| 1977 | 15184 | 1054 | 48963 | $3^{\circ} 58.2'$   | 15221 | 51274 | $72^{\circ} \ 43.9'$   |
| 1978 | 15178 | 1075 | 49003 | $4^{\circ} \ 03.1'$ | 15216 | 51311 | $72^{\circ} \ 45.0'$   |
| 1979 | 15171 | 1096 | 49028 | $4^{\circ} \ 07.9'$ | 15211 | 51333 | $72^{\circ} \ 45.8'$   |
| 1980 | 15163 | 1115 | 49042 | $4^{\circ} 12.3'$   | 15204 | 51345 | $72^{\circ} \ 46.5'$   |
| 1981 | 15148 | 1140 | 49067 | 4° 18.2′            | 15191 | 51365 | 72° 47.9′              |
| 1982 | 15128 | 1157 | 49090 | 4° 22.4′            | 15172 | 51381 | 72° 49.5′              |
| 1983 | 15115 | 1176 | 49101 | $4^{\circ} \ 26.9'$ | 15161 | 51388 | $72^{\circ} 50.5'$     |
| 1984 | 15095 | 1195 | 49113 | $4^{\circ} \ 31.6'$ | 15142 | 51394 | $72^{\circ} 51.9'$     |
| 1985 | 15076 | 1212 | 49125 | $4^{\circ} \ 35.8'$ | 15125 | 51401 | $72^{\circ} 53.2'$     |
| 1986 | 15055 | 1230 | 49144 | $4^{\circ} \ 40.2'$ | 15105 | 51413 | $72^{\circ} 54.9'$     |
| 1987 | 15037 | 1246 | 49158 | 4° 44.2′            | 15089 | 51422 | $72^{\circ} 56.2'$     |
| 1988 | 15014 | 1262 | 49182 | 4° 48.3′            | 15067 | 51438 | 72° 58.1′              |
| 1989 | 14995 | 1276 | 49213 | 4° 51.8′            | 15049 | 51463 | $72^{\circ} 59.8'$     |
| 1990 | 14982 | 1288 | 49227 | 4° 54.8′            | 15037 | 51472 | 73° 00.8′              |
| 1991 | 14965 | 1302 | 49248 | 4° 58.3′            | 15022 | 51488 | 73° 02.2′              |
| 1992 | 14959 | 1318 | 49261 | 5° 02.1′            | 15017 | 51499 | 73° 02.8′              |
| 1993 | 14952 | 1341 | 49277 | $5^{\circ} 07.5'$   | 15012 | 51513 | $73^{\circ} \ 03.4'$   |
| 1994 | 14944 | 1365 | 49304 | 5° 13.1′            | 15006 | 51537 | 73° 04.3′              |
| 1995 | 14937 | 1392 | 49328 | 5° 19.4′            | 15002 | 51559 | 73° 05.1′              |
| 1996 | 14934 | 1421 | 49353 | 5° 26.1′            | 15001 | 51583 | 73° 05.6′              |
| 1997 | 14923 | 1452 | 49388 | 5° 33.4′            | 14993 | 51614 | 73° 06.7′              |
| 1998 | 14910 | 1484 | 49431 | 5° 41.0′            | 14984 | 51652 | 73° 08.2′              |
| 1999 | 14905 | 1512 | 49467 | 5° 47.5′            | 14981 | 51686 | 73° 09.0′              |
| 2000 | 14900 | 1540 | 49510 | 5° 54.1′            | 14979 | 51726 | 73° 10.0′              |
| 2001 | 14901 | 1569 | 49548 | 6° 00.6′            | 14983 | 51764 | 73° 10.5′              |
| 2002 | 14901 | 1599 | 49593 | 6° 07.5′            | 14987 | 51808 | 73° 11.1′<br>73° 12.2′ |
| 2003 | 14896 | 1632 | 49644 | 6° 15.1′            | 14985 | 51856 | (5) 12.2               |

# 18 Earth's Magnetic Field Maps of Finland 2004.0

The isolines of total field (F) and horizontal field (H) are given in nanoteslas (nT), declination (D, positive eastwards) and inclination (I, positive downwards) in degrees of arc (see also www.geo.fmi.fi/MAGN/magncharts.html)

### TOTAL INTENSITY (F) 2004.0

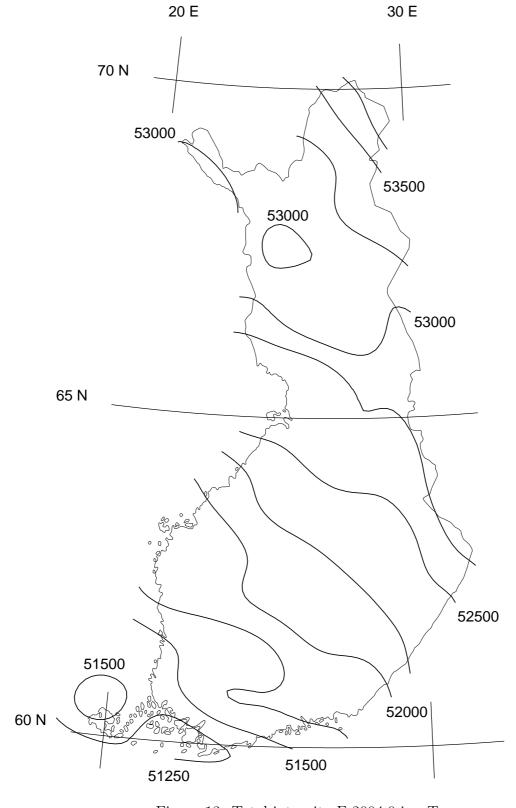


Figure 13: Total intensity F 2004.0 in nT  $\,$ 

### HORIZONTAL INTENSITY (H) 2004.0

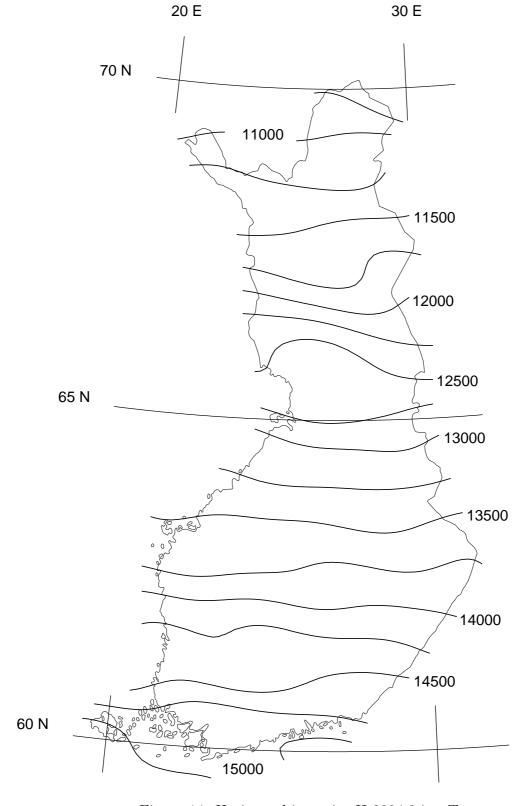


Figure 14: Horizontal intensity H 2004.0 in nT  $\,$ 

### DECLINATION (D) 2004.0

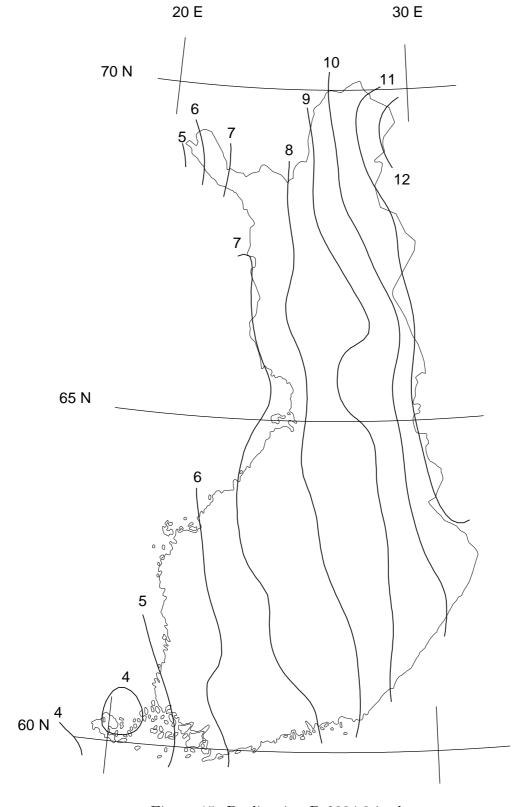


Figure 15: Declination D 2004.0 in degreees

### INCLINATION (I) 2004.0

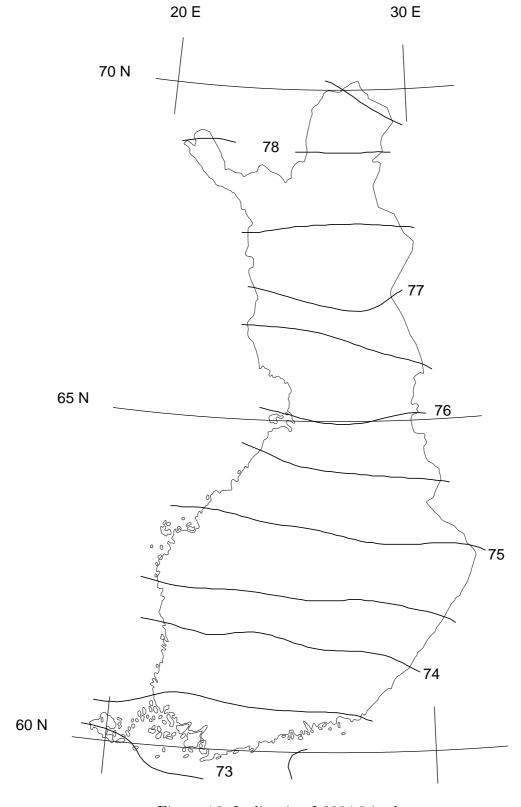


Figure 16: Inclination I 2004.0 in degrees

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### Reports

Magnetic Results 2003, Helsinki 2006, 47 p.