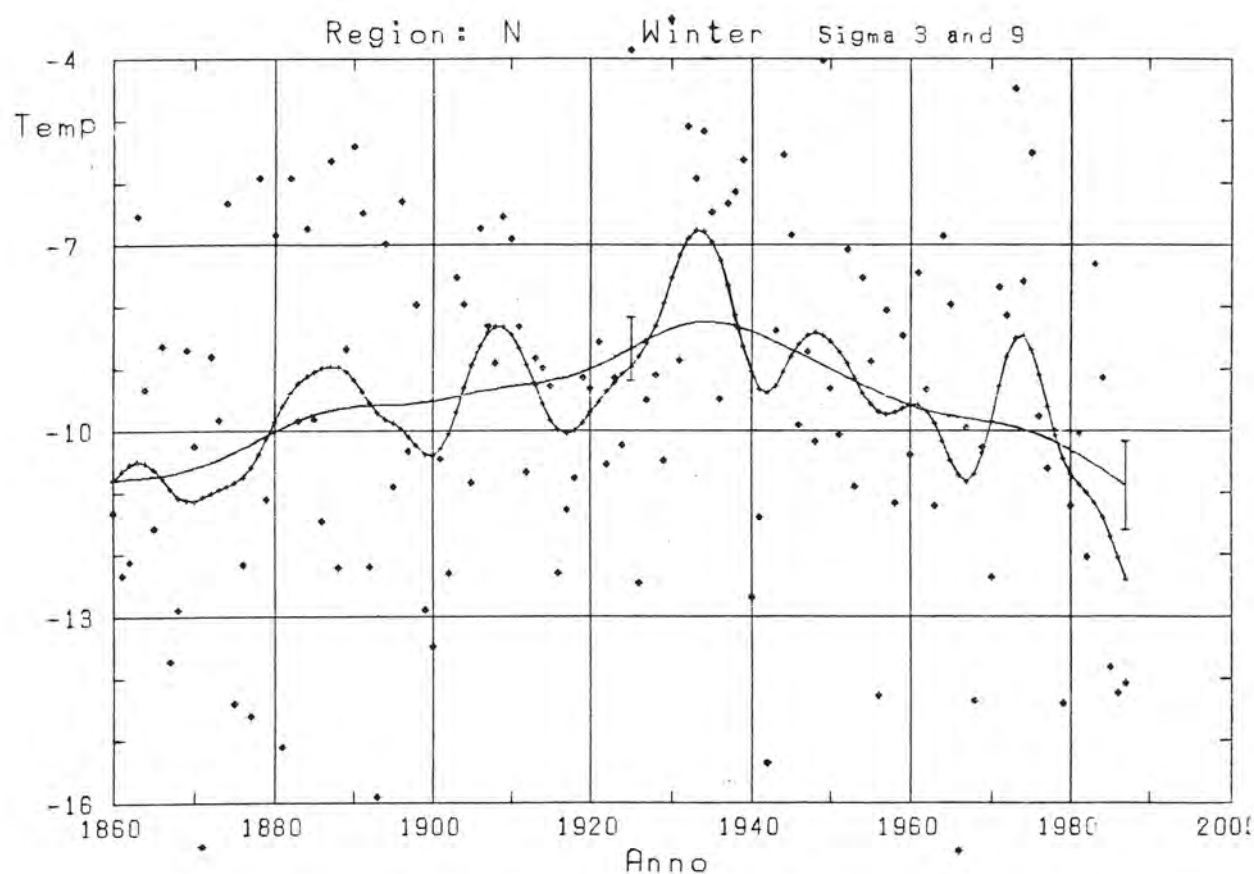




# CLIMATE FLUCTUATIONS IN SWEDEN 1860-1987

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| Title (and Subtitle)<br><br><b>CLIMATE FLUCTUATIONS IN SWEDEN 1860–1987.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                |                                |
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### Abstract.

We are living in a time when there is a great concern and anxiety on climate changes, induced by man or natural. Figures showing trends or abrupt changes may not seldom be based on rather poor climate records. Thus we have started a climate project at SMHI where we have taken great care to avoid non-homogeneous records and where we have limited our aims to the period of instrumental records (mainly from 1860 in Sweden but a few stations have data from about 1750). Three elements have been studied extensively: temperature, precipitation and air pressure. Two main areas within Sweden were selected. In order to avoid non-homogeneous data the temporal analysis was preceded by a spatial homogeneity test which revealed several discontinuities and artificial trends. Long-term fluctuations were visualized by using a Gaussian low pass filter. One interesting feature is that the pressure difference northern to southern Sweden showed a decrease by about 10% around 1930. The corresponding decrease of the zonal wind may to some extent explain the quite large frequency of cold winters in later decades as high winter temperatures in Scandinavia is strongly connected with westerly and southwesterly inflow of mild and humid Atlantic air-masses. Another interesting but still somewhat questionable feature is the dry early decades.

### The data set.

In figure 1 the stations used here are given. They are grouped into two regions, one in the south (or rather southeastern Götaland), one in the north (or rather inner and northeastern Norrland). These two regions are referred to as region S and N respectively. The idea of using two limited regions was to make the homogeneity test as efficient as possible.

In Sweden a net-work of 25 stations was set up in December 1859. In table 1 some basic information for those stations used here is given. It is mainly taken from Andersson (1970).

Table 1. Some of the documented station history. Notations: Hs – height of station (and barometer) above mean sea level (m); Ht – height of thermometer above ground (m); Hp – height of precipitation gauge above ground (m).

5223: Falsterbo 52°23'N 12°49'E

| Hs    |   | Ht    |         | Hp    |         |
|-------|---|-------|---------|-------|---------|
| 1880– | 5 | 1880– | 2.1–2.3 | 1880– | 1.4–1.5 |

Wind shield from 1909.

5343: Lund 55°43'N 13°12'E

| Hs        |    | Ht        |     | Hp        |     |
|-----------|----|-----------|-----|-----------|-----|
| –1867     | ?  | –1867     | ?   | –1867     | 20  |
| 1868–1940 | 38 | 1868–1940 | 6   | 1868–1956 | 1.5 |
| 1941–1974 | 73 | 1941–     | 1.5 | 1957–     | 1.6 |
| 1975–     | 50 |           |     |           |     |

During the period 1851–1867 the temperature readings were taken at the house of the Academy. The rain gauge was placed at the roof of the old Astronomical Observatory. The period 1868–1940 the observations were taken at the new Astronomical Observatory. During the year 1941 the meteorological station was moved to the Geographical Institute and 1974 the observations were taken over by personnel at the fire-brigade. No information is found when the window screen was replaced by the Stevenson screen. The precipitation gauge was provided by wind shield in 1948.

6219: Kullen 56°18'N 12°27'E

| Hs    |    | Ht    |         | Hp    |         |
|-------|----|-------|---------|-------|---------|
| –1923 | 62 | –1937 | 1.9     | –1970 | 1.4–1.6 |
| 1923– | 72 | 1939– | 1.5–1.8 | 1970– | 1.9     |

Wind shield from 1880.

6403: Kristianstad 56°02'N 14°10'E

| Hs        |   | Ht        |     | Hp            |
|-----------|---|-----------|-----|---------------|
| -1965     | 6 | -1886     | 5.9 | 1879- 1.0-1.5 |
| 1965-1982 | 3 | 1886-1897 | 8.5 |               |
| 1984-     |   | 1897-1899 | 5.1 |               |
|           |   | 1899-1903 | 9.0 |               |
|           |   | 1903-1914 | 6.6 |               |
|           |   | 1914-1943 | 1.2 |               |
|           |   | 1943-1967 | 1.8 |               |
|           |   | 1967-     | 1.5 |               |

Wind shield probably from about 1930. The station in Kristianstad was closed 1982 and during about two years values were interpolated. In April 1984 a new station was established just outside the town at Evervd.

6413: Karlshamn 56°11'N 14°52'E

| Hs        |    | Ht        |         | Hp            |
|-----------|----|-----------|---------|---------------|
| -1919     | 13 | -1875     | 8.6     | -1882 6       |
| 1919-1951 | 7  | 1875-1900 | 2.2-2.5 | 1882-1916 5.5 |
| 1951-1972 | 5  | 1900-1916 | 5.7     | 1916-1917 6.8 |
| 1972-     | 20 | 1916-1919 | 7.9     | 1917- 1.5-1.7 |
|           |    | 1919-1957 | 3.9     |               |
|           |    | 1957-     | 1.5     |               |

A new window screen was introduced 1894 and the station was equipped with a Stevenson screen in 1951. Wind shield from 1950 when the old gauge (1000 cm<sup>2</sup>) was exchanged for the new one (200 cm<sup>2</sup>).

6452: Växjö 56°53'N 14°48'E

| Hs        |     | Ht        |         | Hp                |
|-----------|-----|-----------|---------|-------------------|
| -1861     | 156 | -1881     | 4.6     | -1880 3.5         |
| 1861-1871 | 168 | 1882-1889 | 5.4     | 1881-1900 1.4-1.5 |
| 1871-1912 | 172 | 1890-1912 | 6.0     | 1901-1902 1.2     |
| 1913-1949 | 163 | 1912-1918 | 8.5     | 1902-1939 1.7     |
| 1949-     | 166 | 1919-1939 | 9.0     | 1939- 1.5-1.7     |
|           |     | 1939-     | 1.5-1.6 |                   |

Wind shield introduced in 1922 and Stevenson screen in 1939.

6641: Kalmar

56°41'N 16°18'E

| Hs        |    | Ht        |         | Hp        |         |
|-----------|----|-----------|---------|-----------|---------|
| -1877     | 6  | -1877     | 4.2     | -1877     | 9.7     |
| 1877-1891 | 9  | 1878-1881 | 9.2     | 1877-1878 | 18.3    |
| 1891-1901 | 7  | 1882-1889 | 5.8     | 1879-1911 | 1.5-1.6 |
| 1901-1927 | 10 | 1890-1901 | 4.7     | 1912-1922 | 2.2     |
| 1927-1963 | 7  | 1901-1927 | 6.5-6.8 | 1923-1927 | 1.5     |
| 1963-1979 | 8  | 1927-     | 1.5-1.8 | 1927-1941 | 0.8     |
| 1979-     | 15 |           |         | 1941-     | 1.5     |

During 1927 the station was moved from a central place in the town to the lighthouse Grimskär, during 1941 to a pilotage. From 1963 until 1979 the observations are from the airfield and after that from a villa district west of the airfield. Wind shield from 1860.

14036: Holmögadd

63°36'N 20°46'E

| Hs    |   | Ht    |         | Hp    |         |
|-------|---|-------|---------|-------|---------|
| 1860- | 6 | 1860- | 1.3-1.4 | 1860- | 1.4-1.5 |

Wind shield existed in 1920 but was probably introduced much earlier, about 1894.

14048: Umeå

63°50'N 20°17'E

| Hs        |    | Ht        |         | Hp        |         |
|-----------|----|-----------|---------|-----------|---------|
| -1872     | 13 | -1897     | 1.4-1.8 | -1874     | 1.3     |
| 1872-1908 | 12 | 1889-1908 | 2.6     | 1875-1881 | 0.4     |
| 1908-1941 | 17 | 1908-1909 | 6.0     | 1882-1888 | 1.1     |
| 1941-1979 | 11 | 1910-1941 | 6.6     | 1888-1894 | 1.3-1.5 |
| 1979-1981 | 7  | 1941-1967 | 1.5     | 1894-1897 | 0.9     |
| 1981-     | 14 | 1967-1979 | 1.8     | 1897-1929 | 2.0-2.3 |
|           |    | 1979-     | 1.5     | 1929-     | 1.5-1.6 |

Wind shield introduced about 1930, Stevenson screen in 1941. During 1979 the observations ceased in the town and since then observations are taken from the airfield at 63°48'N, 20°17'E.

15129: Bjuröklubb

64°29'N 21°35'E

| Hs    |    | Ht    |         | Hp    |         |
|-------|----|-------|---------|-------|---------|
| 1880- | 36 | 1880- | 1.7-1.9 | 1880- | 1.5-1.7 |

Wind shield from about 1904.

15772: Stensele

65°04'N 17°10'E

| Hs        |     | Ht        |         | Hp        |         |
|-----------|-----|-----------|---------|-----------|---------|
| -1931     | 328 | -1880     | 4.8     | -1880     | 0.7     |
| 1931-1945 | 330 | 1881-1885 | 4.2     | 1881-1885 | 0.9     |
| 1945-1952 | 327 | 1886-     | 1.5-1.8 | 1886-1910 | 1.1-1.2 |
| 1952-1983 | 330 |           |         | 1911-     | 1.5-1.9 |
| 1983-     | 325 |           |         |           |         |

Wind shield from about 1909. Wind screen in 1898, free-standing screen used from 1919 and Stevenson screen since 1940.

16179: Piteå

65°19'N 21°28'E

| Hs        |    | Ht        |         | Hp        |         |
|-----------|----|-----------|---------|-----------|---------|
| -1871     | 14 | -1907     | 2.7-3.1 | -1880     | 2.5     |
| 1872-1944 | 9  | 1907-1941 | 2.0     | 1881-1907 | 2.7-2.8 |
| 1944-1947 | 3  | 1941-     | 1.5-1.7 | 1908-1918 | 3.1-3.3 |
| 1947-1957 | 5  |           |         | 1919-1928 | 2.5     |
| 1957-     | 6  |           |         | 1929-1941 | 3.1     |
|           |    |           |         | 1941-     | 1.4-1.6 |

Window screen introduced in 1894 and Stevenson screen in 1941. Probably wind shield until 1920. A new wind shield was mounted later, possibly in 1941.

16395: Haparanda

65°50'N 24°09'E

| Hs        |    | Ht        |         | Hp        |         |
|-----------|----|-----------|---------|-----------|---------|
| -1872     | 10 | -1884     | 2.1     | -1885     | 0.7-0.9 |
| 1872-1942 | 9  | 1884-1914 | 2.8-3.2 | 1886-1891 | 2.5     |
| 1942-1977 | 7  | 1915-1917 | 3.5     | 1892-1893 | 3.1     |
| 1977-     | 5  | 1918-1942 | 3.1     | 1894-1904 | 2.6     |
|           |    | 1942-     | 1.6-1.7 | 1905-1942 | 2.0-2.1 |
|           |    |           |         | 1942-     | 1.6-1.7 |

Wind shield introduced in 1914. A window screen was used 1897-1942 and after that a Stevenson screen. The station was situated at the telegraph station 1859-1942, 1942-1977 at the custom-house and after that in a villa district.

16988: Jokkmokk

66°36'N 19°50'E

| Hs        |     | Ht        |         | Hp        |         |
|-----------|-----|-----------|---------|-----------|---------|
| -1871     | 285 | -1931     | 1.3-1.5 | -1881     | 0.4     |
| 1871-1903 | 282 | 1931-1947 | 1.1     | 1882-1947 | 1.2-1.4 |
| 1903-1933 | 255 | 1947-     | 1.4-1.6 | 1947-     | 1.5-1.6 |
| 1933-1947 | 249 |           |         |           |         |
| 1947-1957 | 262 |           |         |           |         |
| 1957-1962 | 257 |           |         |           |         |
| 1962-1966 | 259 |           |         |           |         |
| 1966-1973 | 266 |           |         |           |         |
| 1973-     | 260 |           |         |           |         |

Wind shield introduced in 1910. Window screen was used 1900-1919, freestanding screen until 1931 and from that the Stevenson screen. The station was removed in 1973 to a new position at 66° 38'N and 19° 39'E.

19283: Karesuando

68°27'N 22°30'E

| Hs    |     | Ht    |         | Hp    |         |
|-------|-----|-------|---------|-------|---------|
| -1945 | 333 | -1945 | 1.8-2.0 | -1968 | 1.5-1.6 |
| 1945- | 327 | 1945- | 1.5     | 1968- | 1.8     |

Free-standing shelter was used until 1945 when a Stevenson screen was introduced. Wind shield was used at least from 1915. The observations were performed at the same place 1879-1945 and by the same man 1879-1931.



### The theory of the homogeneity test.

The test used here has been described lately (Alexandersson, 1986). The mathematics involved was discussed earlier by Hawkins (1977). Another test has been used by Potter (1981) and more general discussions of homogeneity tests can be found in Gardner (1969) and James et al. (1987). We have collected some of the essential mathematics below.

For each station we have

$Y_i$  – the station series itself

$X_i$  – a reference value formed from surrounding, homogeneous series.

The reference value is obtained through

$$\Sigma(W_{ij} * X_j * \bar{X}_i) / \bar{X}_j / \Sigma W_{ij} \quad \text{– for precipitation}$$

$$\Sigma(W_{ij} * (X_j + (\bar{X}_i - \bar{X}_j))) / \Sigma W_{ij} \quad \text{– for temperature and pressure}$$

where all sums extends from  $j=1$  to  $j=N$  and where a bar denotes average. The weight  $W_{ij}$  is given by a formula which utilizes the distance  $L_{ij}$  in km between a pair of stations (i,j):

$$W_{ij} = \exp(-L_{ij}/d)$$

The coefficient  $d$  could be chosen to give values on  $W_{ij}$  which in magnitude resembles squared correlation coefficients. This is fairly well fulfilled with  $d=0.005$  for precipitation and  $0.001$  for temperature and pressure which vary more smoothly. Explicit calculations can indeed also be used when we have such long series as here. Note that also short and incomplete series can be used to derive reference values thanks to the normalizations. This is an almost necessary trick to handle real geophysical data where incomplete records are frequent.

The next step in the set of mathematical operations is to form a series of ratios or differences

$$Q_i = (Y_i / X_i) \quad \text{– for precipitation}$$

$$Q_i = (Y_i - X_i) \quad \text{– for temperature and pressure.}$$

Then these series are standardized according to

$$Z_i = (Q_i - \bar{Q}_i) / \text{std}(Q_i)$$

Here std denotes standard deviation. In fact the averages here must always be near to one and zero respectively due to the normalizations involved in the reference value. But, anyhow, what we want out of  $Z_i$  is a series of values that are close to Gaussian with mean zero and standard deviation one. One could no doubt use the first formula for all variables if temperature data were handled in

Kelvin but we have followed the tradition to compare precipitation data through ratios, the other two through differences. We are now ready to set up a very simple set with null and alternative hypothesis as

$H_0$ :  $Z_i$  is a  $(0,1)$ -Gaussian variable throughout the period.

$H_1$ :  $Z_i$  is a  $(M_1,1)$ -Gaussian variable for  $i$  up to and including  $K$ .

$Z_i$  is a  $(M_2,1)$ -Gaussian variable for the rest of the series.

This neat mathematical form allows us to derive a test statistic easily as:

$$T = \max(K \cdot \bar{Z}_1^2 + (N-K) \cdot \bar{Z}_2^2)$$

where we have to scan through all possible  $K$ 's from 1 to  $N-1$  to find this maximum and where  $\bar{Z}_1$  and  $\bar{Z}_2$  are the averages of the first and second parts of the  $Z_i$ -series. The null hypothesis  $H_0$  is then rejected if  $T$  exceeds a critical value on a specified significance level. If we prefer the traditional 95% level, which means that there is risk of 5% that a homogeneous series will be considered non-homogeneous by mere chance, the critical level of the long series used here will be 9.25 (Alexandersson, 1986). In figure 2 a graph shows how the critical levels depend upon significance level and the number of values (years).

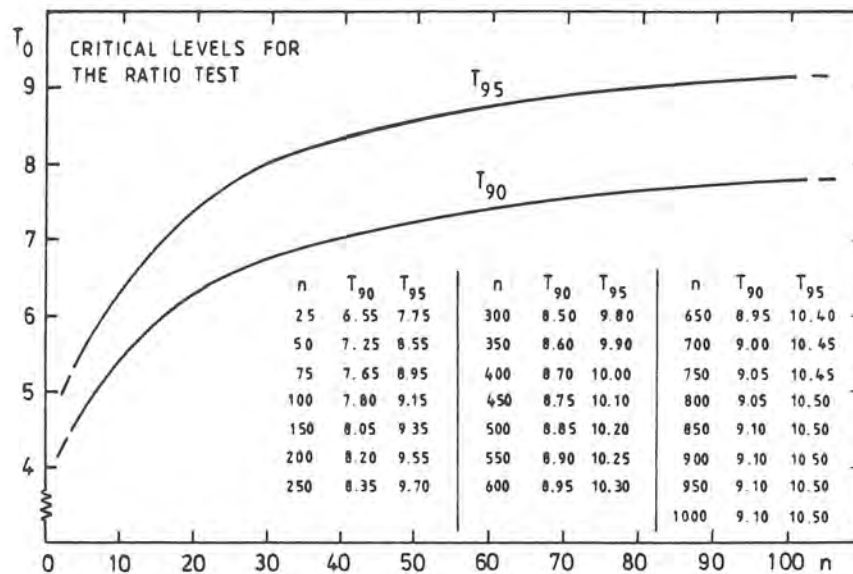


Figure 2. Critical levels for two significance levels, 90 and 95%, and for a number of values from 10 to 1000.

To obtain a reasonable number of accepted series some corrections of the data were made, preferably when the discontinuities detected occurred near the ends and when they looked distinct on  $Q_i$ -plots. Although this kind of test gives an answer on the vital questions: When and with how much and on what significance level can a series be considered as non-homogeneous – it is of much value to take a good look at plots of the series of ratios or differences  $Q_i$  for each station. We will come to this right now.

### Applications of the homogeneity test.

We will illustrate the test by some figures showing the sequence of ratios or differences. For temperature we have chosen Våxjö in southern Sweden and Karesuando in the far north.

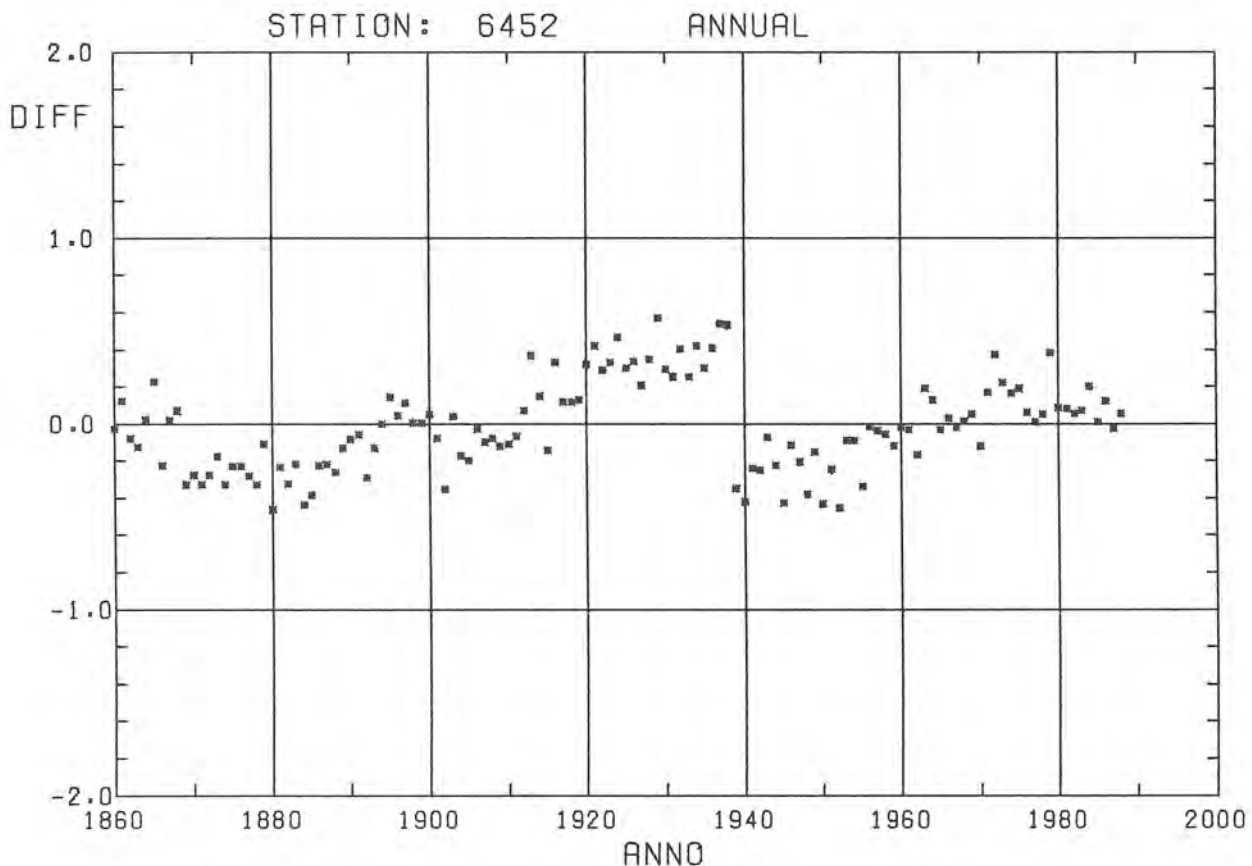


Figure 3. The sequence of differences between the temperature at Våxjö and a reference value, 1860–1987.

We can note a distinct break 1938/1939 for Våxjö and a trend upwards both before and after this discontinuity. Checking with the documented historical events in table 1 shows that the sudden decrease almost certainly is connected with a drastic lowering of the thermometer. This will no doubt give lower minima in inversion conditions which are quite frequent in winter and during nights. The slower upward trend could rather be an urban warming effect. We suspect that "urban" warmings can occur also when the site becomes more and more sheltered by trees, gardens and buildings. Naturally the test quantity  $T$  greatly exceeds the critical value 9.25 as it becomes 22.6. Performing the test on individual seasons gave similar results although Våxjö was accepted when summer (June–August) data was used. However, only the test on annual data was used to sort out stations that not are suitable for climate studies or suitable to save by corrections.

Two other stations turned out to have even more pronounced trends: Lund with a relative warming of 0.8 to 0.9°C since 1900 and Umeå with a gradual increase of about 0.9°C since 1860 but with a sudden regress with about 0.5°C in 1979 when it was resited to an airport in the outskirts of the town.

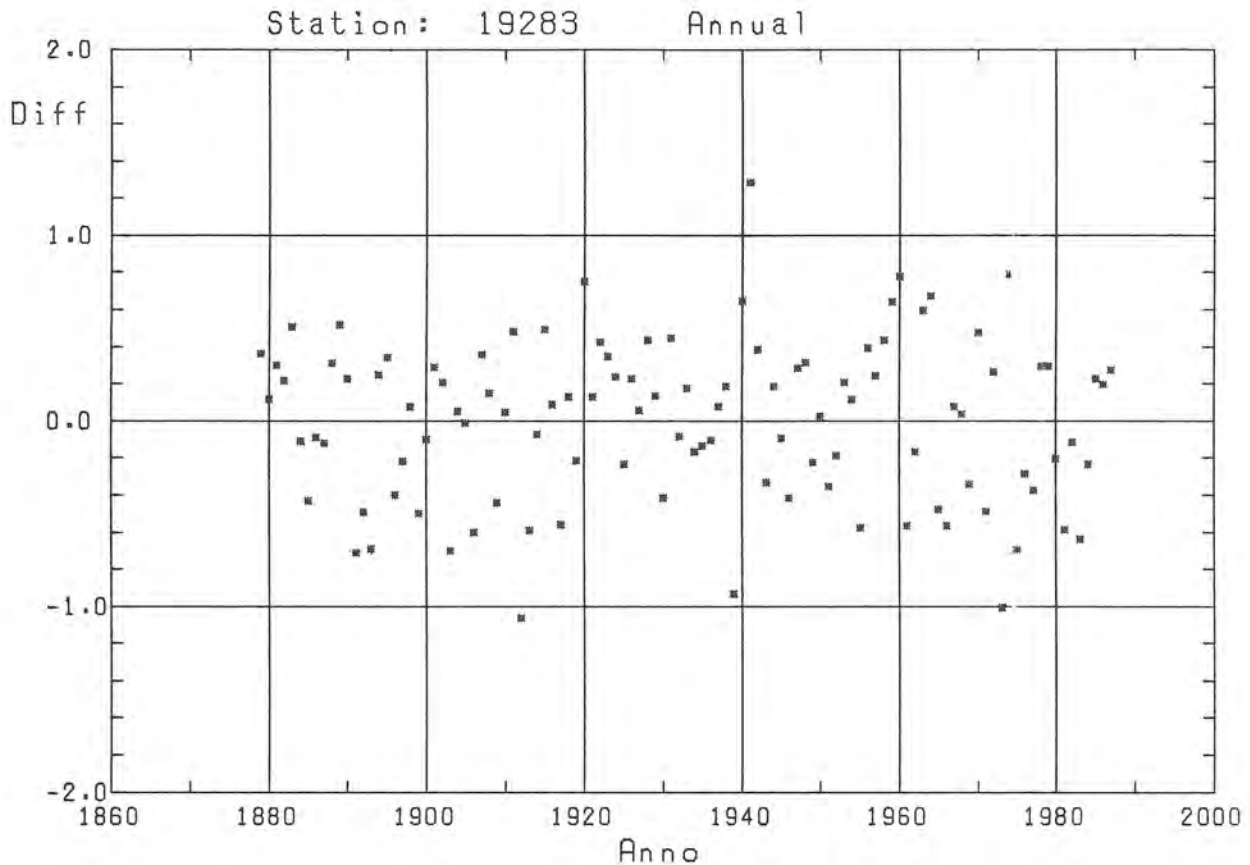


Figure 4. The sequence of differences between the temperature at Karesuando and a reference value, 1860–1987.

Karesuando seems to be a very satisfactory series with no visible signs of trends or breaks. This is, however, somewhat misleading as a slightly significant change has been corrected for (see table 3) in the earlier decades. In fact it must be rare with truly homogeneous records of this length, at least at inland sites where the pattern and development of shallow cold layers is very complex and site dependent.

We can note that we have a much larger spread of the values than for Växjö, mainly because the distances in the northern region between the stations are much longer giving less satisfactory reference values. Especially the 1941 value seems suspicious but no error could be found.

In table 2 we have summarized test results and corrections. After some corrections had been made five series in each region were accepted and used in the temporal analysis. Generally coastal sites were found less problematic than inland sites. In windy climates the exact siting of the thermometer is less sensitive for the measurements.

Table 2. Test results and corrections. Annual temperature.

Falsterbo accepted, no corrections. Data from 1880–1987.  
 Lund not accepted. Data from 1860–1987.  
 Kullen accepted, no corrections. Data from 1880–1987.  
 Kristianstad accepted, correction +0.30 1879–1899. Data from 1879–1987.  
 Karlshamn accepted, correction +0.11 1860–1933. Data from 1860–1987.  
 Växjö not accepted. Data from 1860–1987.  
 Kalmar accepted, corrections −0.15 1860–1887, +0.15 1888–1904,  
 +0.40 1963–1972, +0.15 1973–1987. Data from 1860–1987.  
 Holmögadd accepted, no corrections. Data from 1860–1987.  
 Umeå not accepted. Data from 1860–1987.  
 Bjuröklubb accepted, no corrections. Data from 1880–1987.  
 Stensele accepted, corrections −0.50 1861–1885, −0.20 1956–1987. Data  
 from 1861–1987.  
 Piteå not accepted. Data from 1860–1987.  
 Haparanda accepted, correction +0.24 1860–1921. Data from 1860–1987.  
 Jokkmokk not accepted. Data from 1862–1987.  
 Karesuando accepted, correction +0.22 1879–1919. Data from 1879–1987.

Then we turn over to precipitation. As this variable is much less correlated at similar distances than temperature and pressure the test is less useful and strong. We give two more examples of  $Q_i$ -plots.

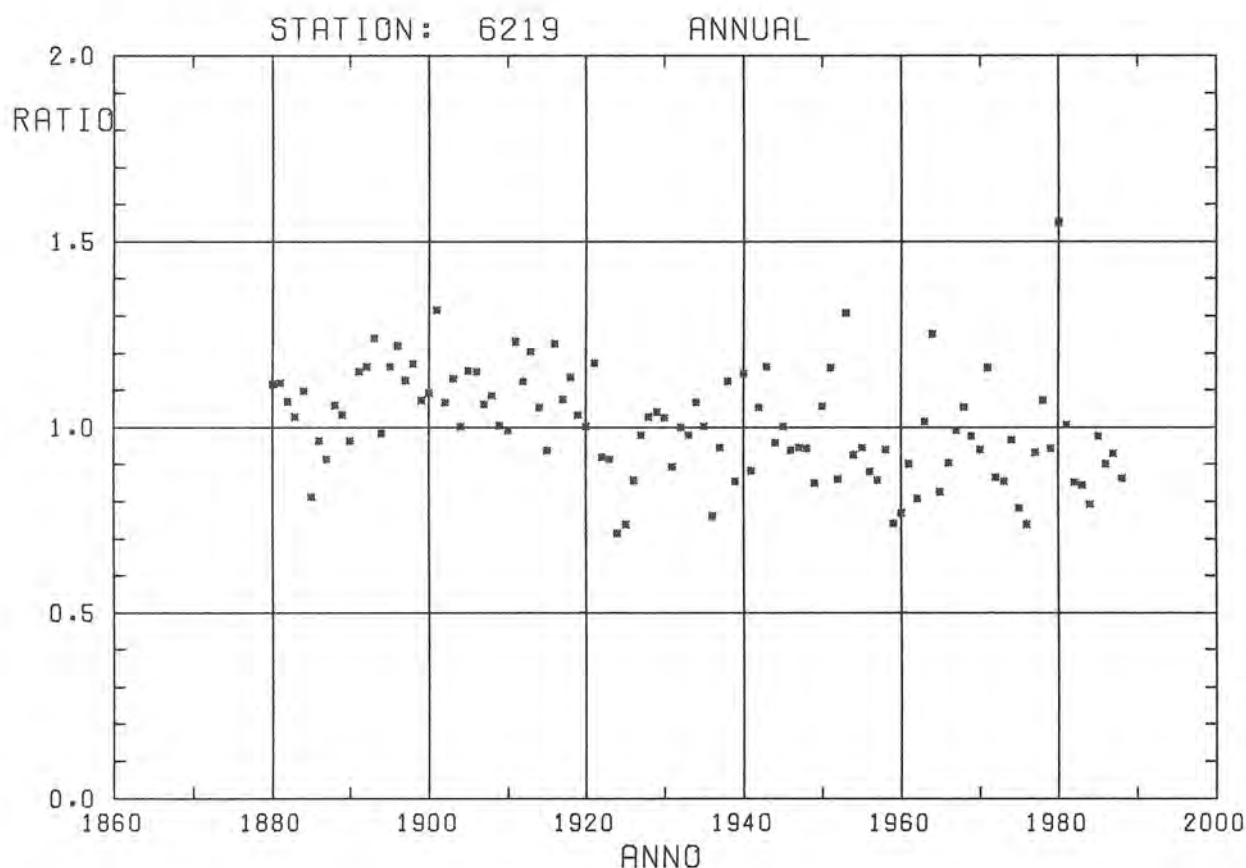


Figure 5. The sequence of ratios between the annual precipitation at Kullen and a reference value, 1880–1987.

The drop occurring in 1921 to 1922 is highly significant ( $T=22.6$ ) and is probably caused by a less sheltered siting at this windy hill near the sea. In rare circumstances may a windy site give excessive amounts of rain and snow but more often will it lead to substantial losses. See e.g. Eriksson (1983) where aerodynamic losses are discussed. In that report the true mean annual value at Kullen is estimated to be 27% higher than the measured amount (710 and 558 mm respectively) while the change given by this test corresponds to a decrease of 12% (from 622 to 543 mm) which points at the difficulties in making assessments of the losses. Note that there was a resiting of the station in 1923 (see table 1).

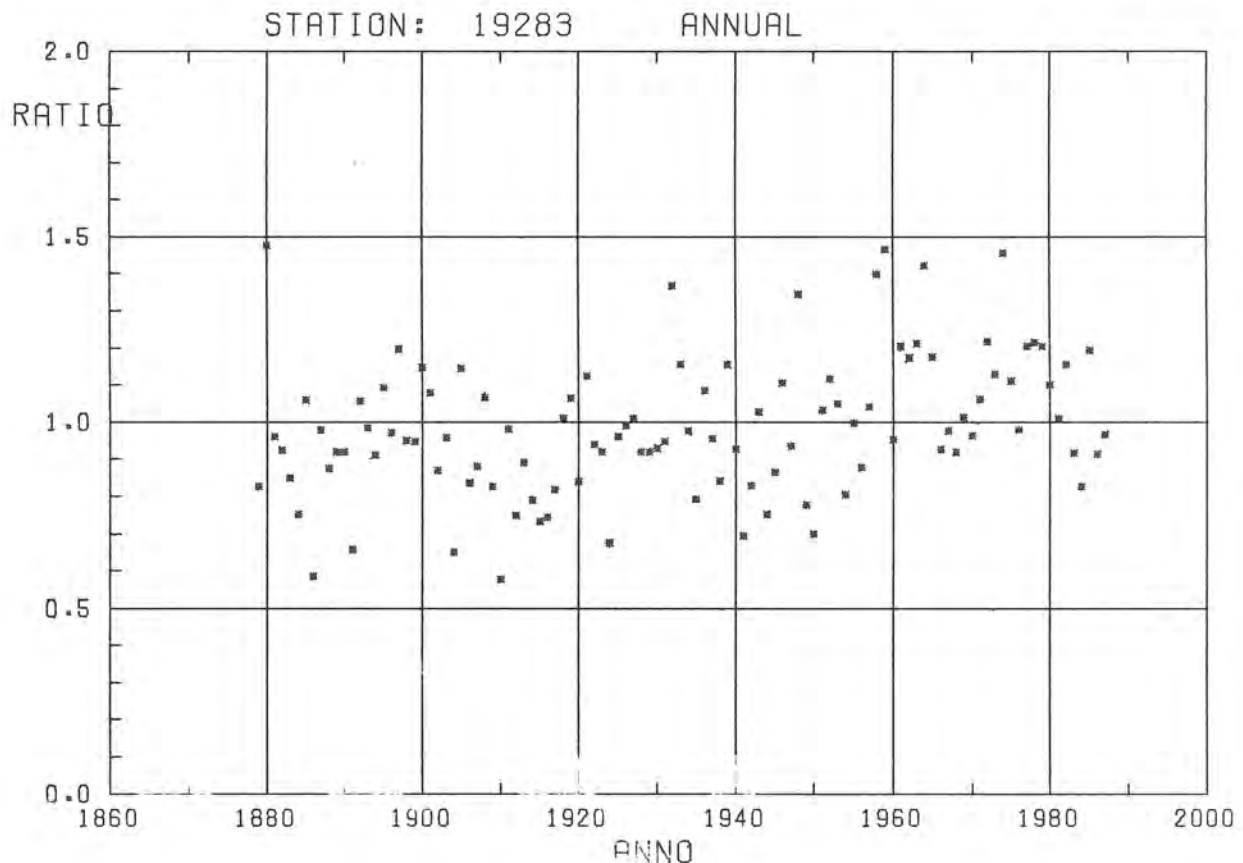


Figure 6. The sequence of ratios between the annual precipitation at Karesuando and a reference value, 1879–1987.

This series was also rejected by the test ( $T=20.4$ ) although a visual inspection gives an impression of a gradual change rather than a distinct break. The reason for this may be that this rather windy site has become somewhat more sheltered as the birches have grown and expanded in this near tundra climate zone. The warming from the late nineteenth century to this century could have contributed to this.

The general tendency for the precipitation records is that inland sites are more homogeneous than windy, coastal sites. In the list of corrections below we can note that some large corrections are made but that they mainly are applied at short parts of the data. A denser network of stations would no doubt give possibilities to detect more non-homogeneities. For precipitation the distances are indeed a bit too long to give efficient tests.

Table 3. Test results and corrections. Annual precipitation.

---

Falsterbo not accepted. Data from 1880–1987.  
 Lund not accepted. Data from 1860–1987.  
 Kullen not accepted. Data from 1880–1987.  
 Kristianstad accepted, no corrections. Data from 1879–1987.  
 Karlshamn accepted, correction factor 1.35 1860–1866. Data from 1860–1987.  
 Växjö accepted, no corrections. Data from 1860–1987.  
 Kalmar not accepted. Data from 1860–1987.  
 Holmögadd not accepted. Data from 1860–1987.  
 Umeå accepted, correction factor 0.85 1867–1883. Data from 1860–1987.  
 Bjuröklubb not accepted. Data from 1880–1987.  
 Stensele accepted, no corrections. Data from 1861–1987.  
 Piteå not accepted. Data from 1860–1987.  
 Haparanda accepted, correction factors 1.25 1860–1875, 1.08 1940–1987.  
     Data from 1860–1987.  
 Jokkmokk accepted, correction factor 1.26 1860–1868. Data from 1862–1987.  
 Karesuando not accepted. Data from 1879–1987.

Finally the pressure data was processed in the same manner after some quite lengthy standardizations to get the whole data set reduced to mean sea level, 0° C temperature, standard gravity acceleration and hPa. We just give the correction table. Generally inland stations were a bit more problematic, probably due to the sea level reduction problems. Note that the period covered by pressure data is shorter, or 1871–1987.

Table 4. Test results and corrections. Annual pressure.

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Kristianstad accepted, no correction. Data from 1901–1960.  
 Karlshamn accepted, no correction. Data from 1871–1900.  
 Växjö not accepted. Data from 1871–1987.  
 Kalmar accepted, correction 0.80 1871–1885. Data from 1873–1987.  
 Stensele not accepted. Data from 1871–1987.  
 Piteå accepted, correction –1.50 1871–1872. Data from 1871–1960.  
 Haparanda accepted, corrections –0.50 1873–1883, –0.54 1976–1987.  
     Data from 1873–1987.  
 Jokkmokk accepted, correction –0.38 1888–1903. Data from 1888–1987.  
 Karesuando accepted, no correction. Data from 1879–1987.

### Filtering of the data.

Two types of averaging were performed for the accepted and sometimes corrected series were made. Firstly the data sets were grouped into the two regions mentioned and thus averaged spatially. These averages cannot be considered as true areal means because of the few series used but they will give a reasonable spatial smoothing and some of the (small) non-homogeneities that still exist will be dampened out.

The temporal filtering is somewhat more tricky involving Gaussian weighting coefficients. A time series  $X_i$  is then transformed according to

$$G_j = \Sigma(W_{ij} * X_i) / \Sigma W_{ij}$$

$$W_{ij} = \exp(-(i-j)^2 / (2 * \sigma^2))$$

The standard deviation  $\sigma$  must be chosen subjectively but we have used 3 and 9 which very nearly corresponds to 10 and 30 years if one uses the rectangular window ("standard" running averages). Gaussian coefficients give the ideal shape for a low-pass filter. Note that we have allowed the filtering to run through the whole series both in  $i$  and  $j$ . Near the ends we get  $G_j$ -values that are less certain than in the inner parts and averages that will be changed when the series are extended.

In subsequent plots we will give individual values for the two regions along with two filtered curves, the more rapidly varying one revealing more of the accidental clustering of warm or cold or wet or dry "spells" while the more slowly varying curve hopefully will reveal more truly climatic variations.

In each plot is indicated, by vertical bars, the statistical mean error (the most smoothed mean value  $\pm$  the standard error of the mean) at the middle and at the end of the series.

### Results.

The results are presented as time series in figures 7–41. Every point is an annual or seasonal mean value. Regarding the temperature diagrams each point is also an area mean based upon five stations in region S, which is the southernmost part of Sweden. Also for region N, a northeasterly part of Sweden, five stations were used in the temperature analyses. In the diagrams with annual and seasonal precipitation the values for region S are based upon three stations, in region N upon four stations. The diagrams with air pressure data are based upon four stations in the north and three in the south.

### Temperature, annual means.

The large difference between region S and N is that the interannual temperature variability is much higher in northern than in southern Sweden. In both areas there was a trend towards increasing temperatures from 1860 to the middle part of the 1930th. In region N the temperature increase, according to the most smoothed curve, was about  $1.5^\circ$ . In region S the increase was only half that figure. From the temperature optimum there is a decreasing trend in both regions. In the north of Sweden the drop of the annual mean from about 1935 to the 1980th is  $0.8^\circ \text{C}$ , while it is  $0.3^\circ \text{C}$  in the south.

In region N the warmest year was 1938, the coldest occurred in 1867. The warmest year in region S was 1934. The years 1867, 1871 and 1942 were the coldest ones during the studied period.

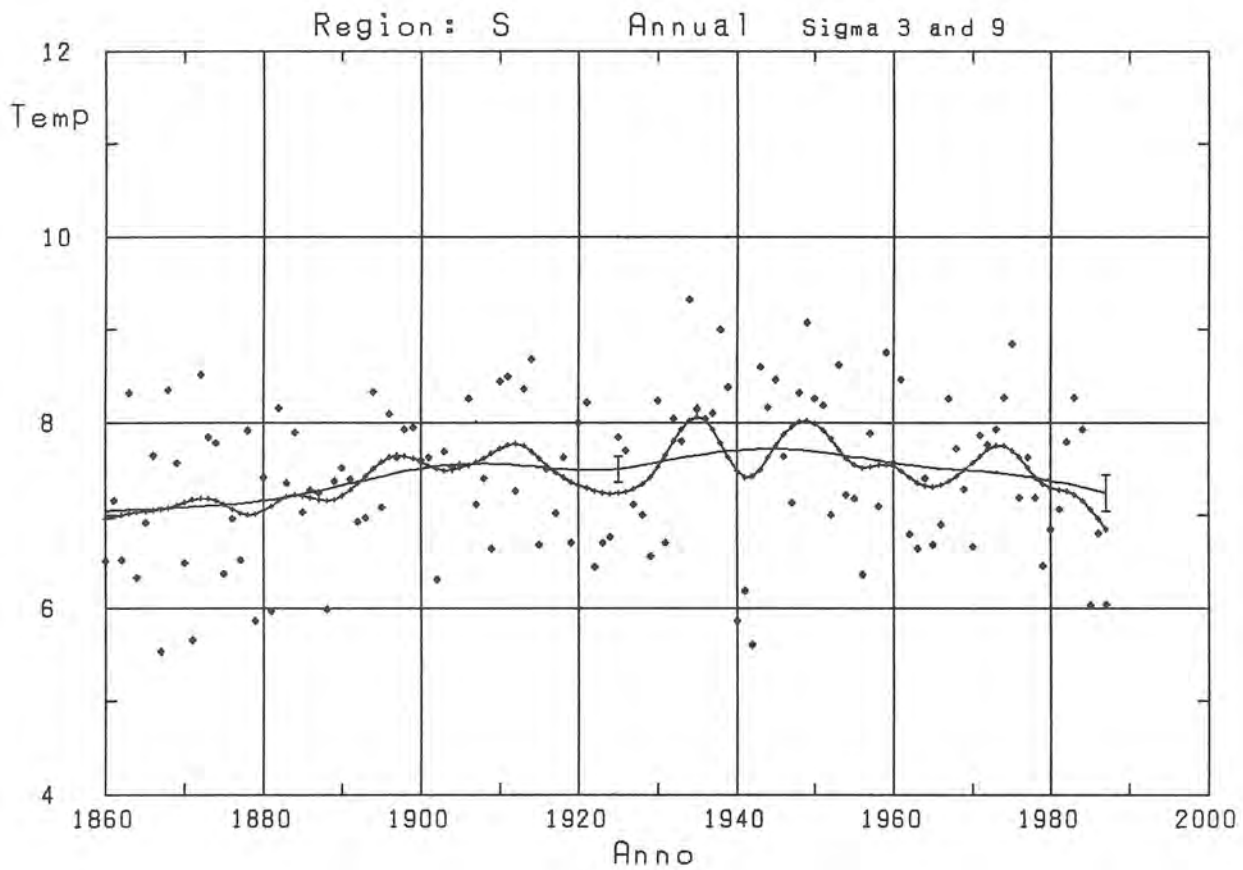


Figure 7. The annual mean temperature 1860–1987 in region S along with two low-pass filtered curves.

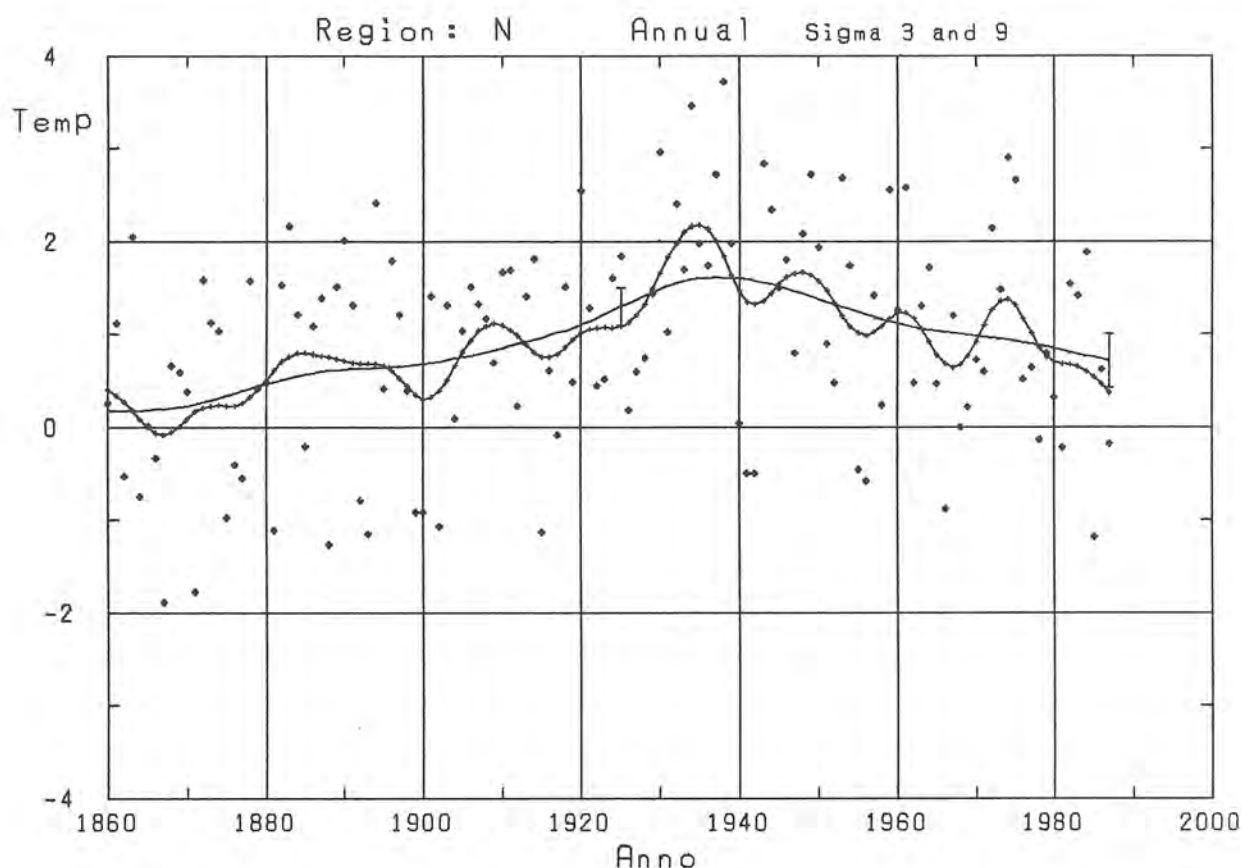


Figure 8. The annual mean temperature 1860–1987 in region N along with two low-pass filtered curves.

#### Temperature, winter (Dec, Jan, Feb) means.

The amplitude of winter temperatures is large. (Note that the temperature scales are different than in the annual plots.) The temperature climate in region N shows very large fluctuations. In anticyclonic conditions very strong inversions build up and the contrast to cyclonic and windy periods when maritime air penetrates inland becomes large, especially for the northern region in the lee of the fells. The most smoothed curve raised  $2.6^{\circ}\text{C}$  from 1860 to the 1930th, when a cluster of mild winters occurred. From that time the temperature has decreased to the same level as around 1860. In region S the pattern is the same but the amplitude of the fluctuation much lower. At the end of the period the smoothed values are even lower than at the beginning.

In region S the mildest winters were 1924/25 and 1974/75 while the coldest one occurred 1941/42. Region N had its mildest winter 1929/30 (note: a mark outside the frame coinciding with the i in "winter") and the strongest ones were 1870/71 and 1965/66 (also outside of the frame!). A bit remarkable is that the very cold winters 1939/40 to 1941/42, the disreputable "war winters", almost coincide with the long term optimum, but in the less smoothed curve these winters give a pronounced dip both in winter and annual temperatures.

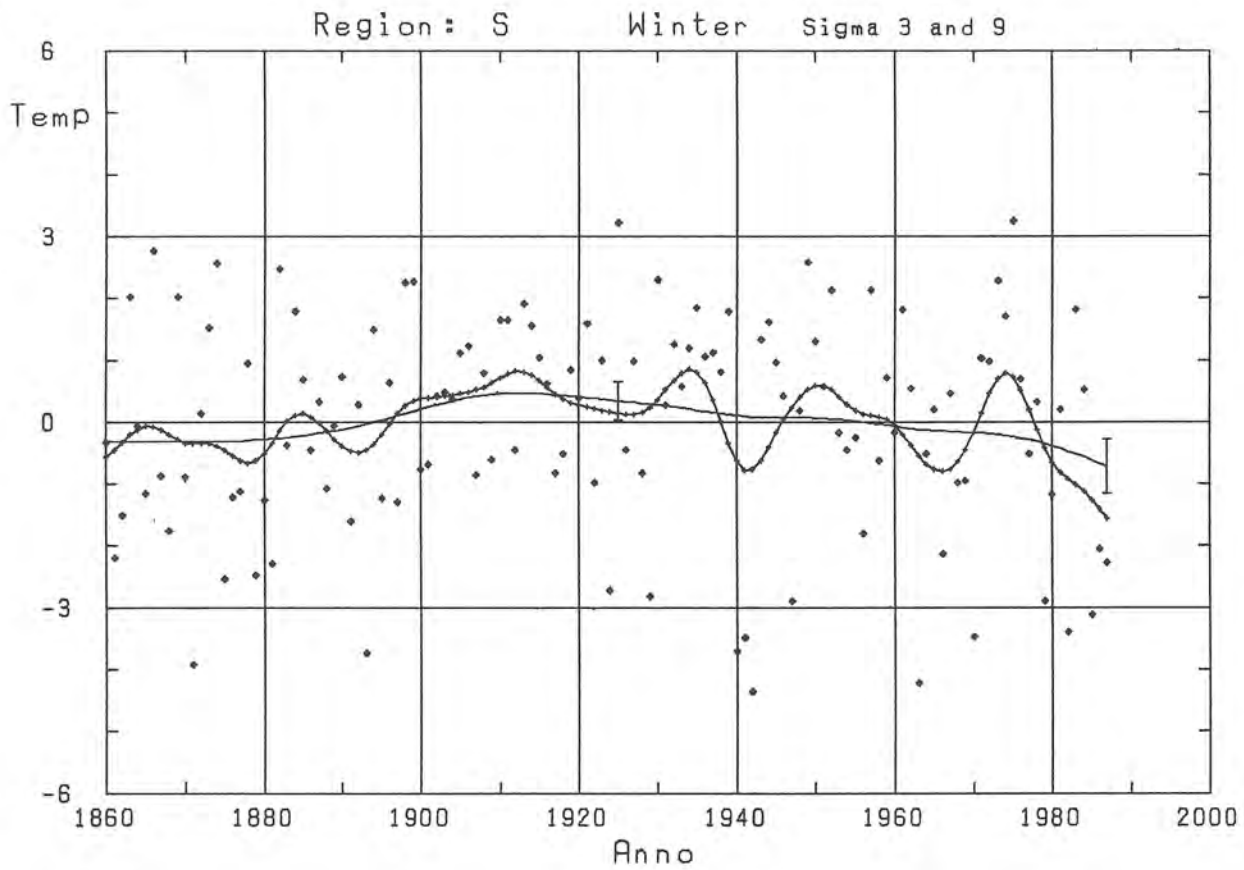


Figure 9. The winter mean temperature 1860–1987 in region S along with two low-pass filtered curves.

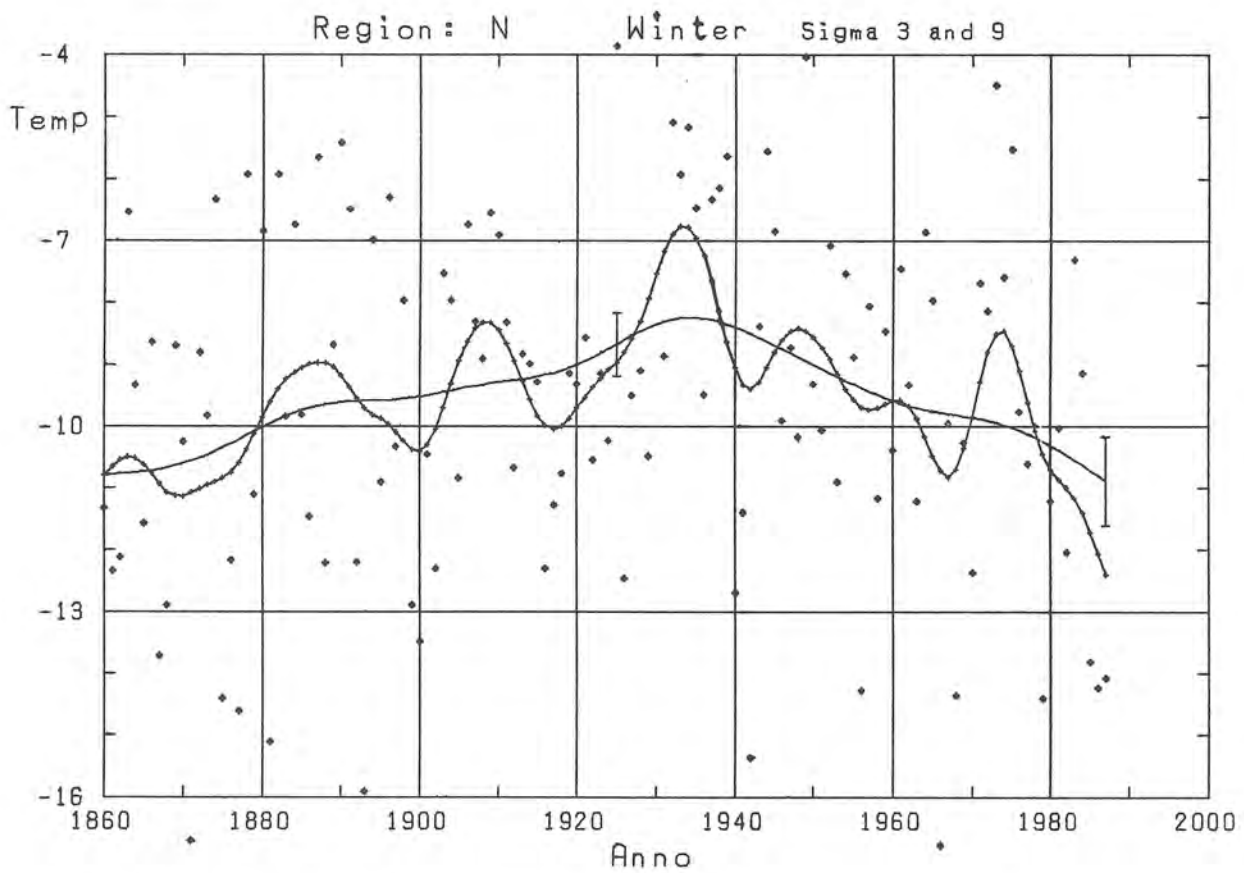


Figure 10. The winter mean temperature 1860–1987 in region N along with two low-pass filtered curves.

Temperature, spring (Mar, Apr, May) means.

The improvement of temperature conditions occurred both in the north and south regions during the last decades of the 19th century and the three first decades of this century. In region S the temperature raised  $0.8^{\circ}\text{C}$  and from about 1930 the most smoothed values have been rather constant. In the north region mean temperatures increased  $1.0^{\circ}\text{C}$  until 1930. From that time the level has not changed very much. During the last years one can see a small raise.

The warmest spring in both regions was 1921 (outside of frame in region N); the coldest in region S was 1942 and in region N 1888.

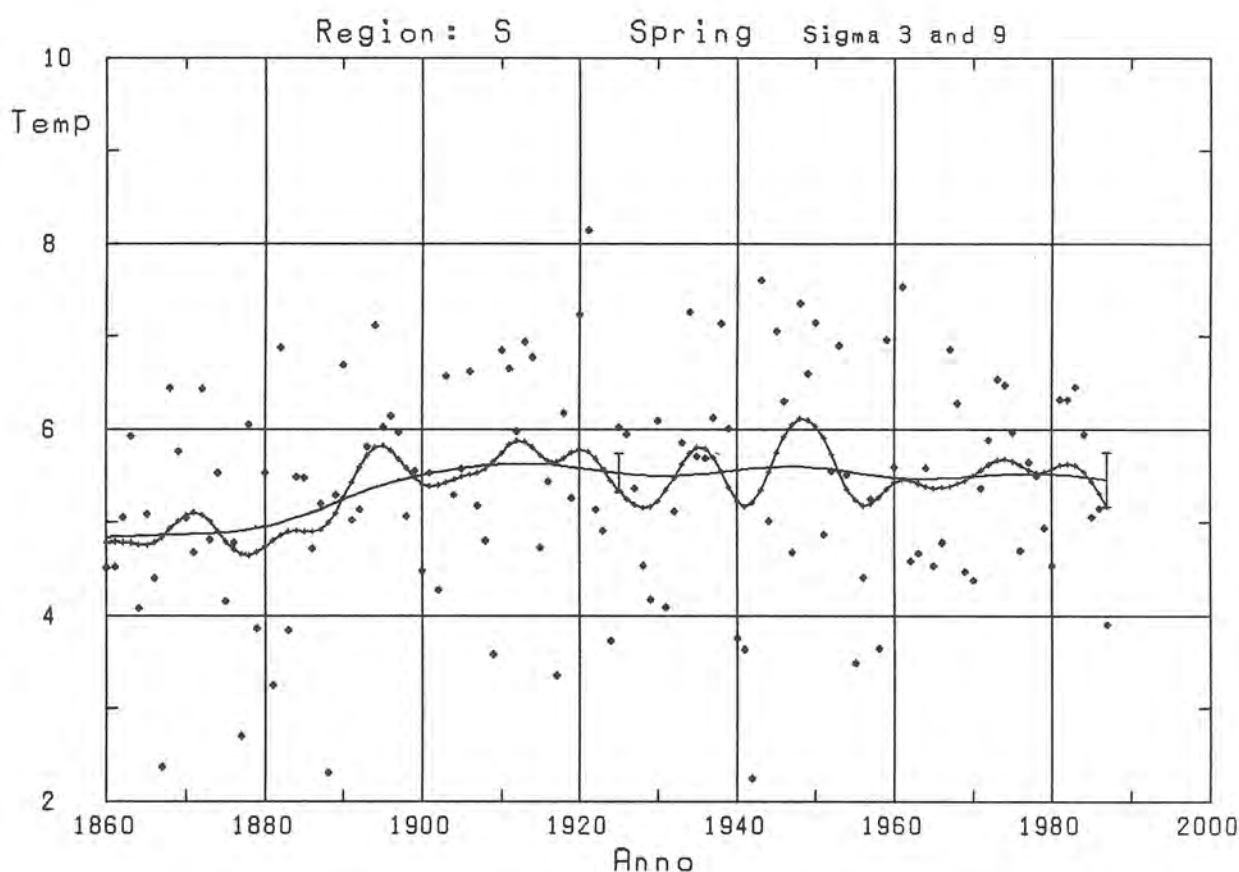


Figure 11. The spring mean temperature 1860–1987 in region S along with two low-pass filtered curves.

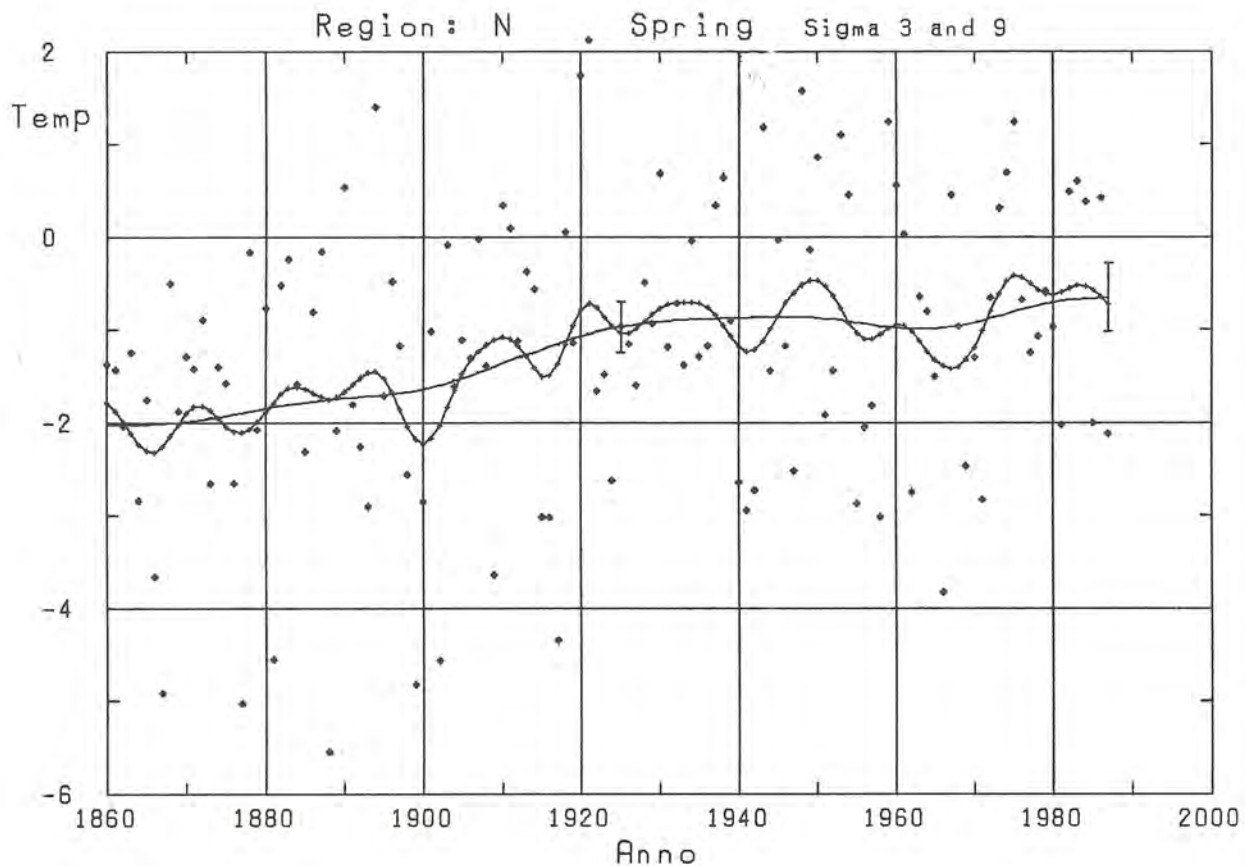


Figure 12. The spring mean temperature 1860–1987 in region N along with two low-pass filtered curves.

#### Temperature, summer (Jun, Jul, Aug) means.

The trends of summer mean temperatures are somewhat different between the two regions. In the south area there was no distinct trend during the first half of the studied period. In the 1930th there was a lot of warm summers, and the most smoothed curve reached a maximum around 1940. From that timepoint the summers have been chillier with about  $0.3\text{--}0.4^{\circ}\text{C}$ . In the north several cold summers were grouped together at the end of the 19th century. Mean values increased  $1^{\circ}\text{C}$  towards a maximum during the 1930th, but after that the trend has been negative, so that at the end of the period the mean values have been about  $0.6^{\circ}$  lower than during the optimum.

The highest summer temperature occurred in 1937 in region N and in region S already in 1868. The summers 1987 and 1928 were the coldest ones in region S and in region N 1902 was extremely cold.

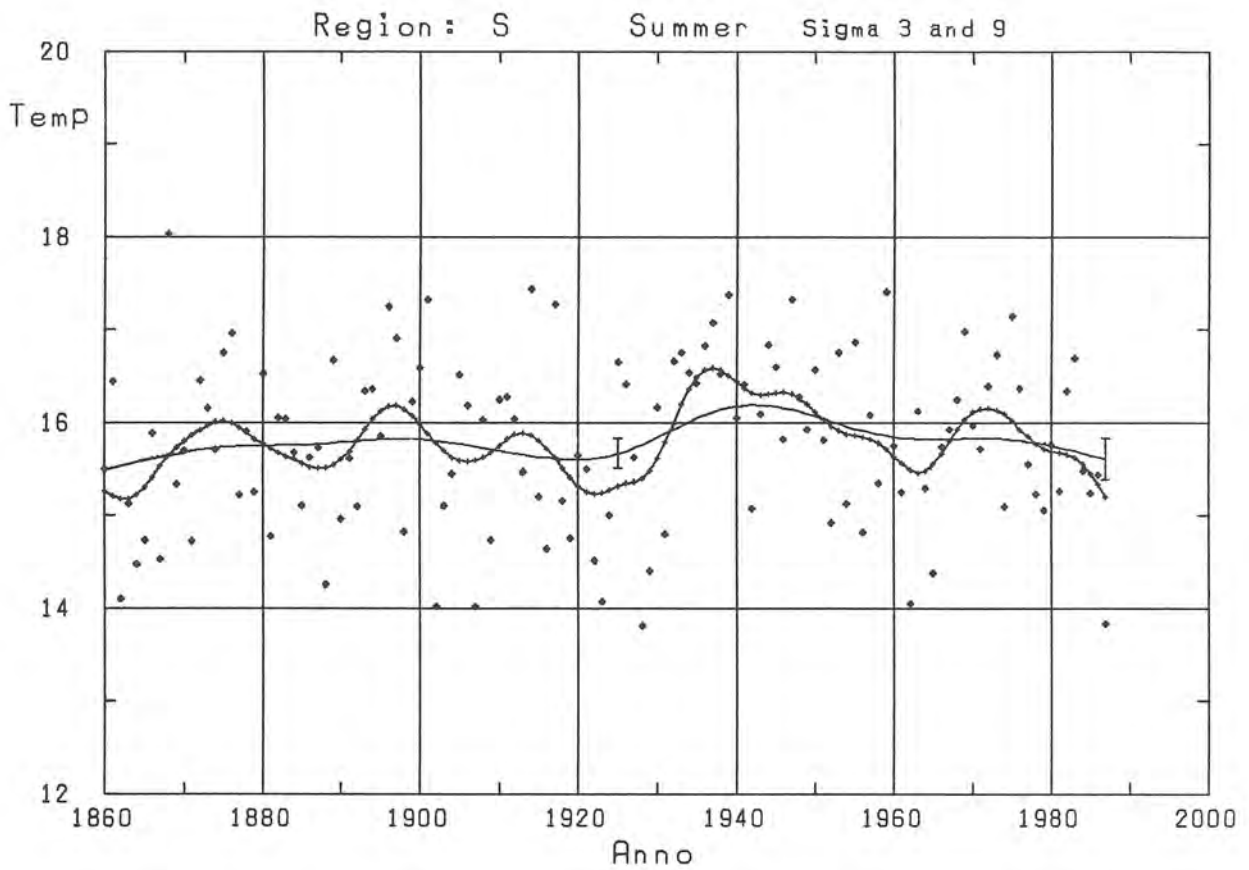


Figure 13. The summer mean temperature 1860–1987 in region S along with two low-pass filtered curves.

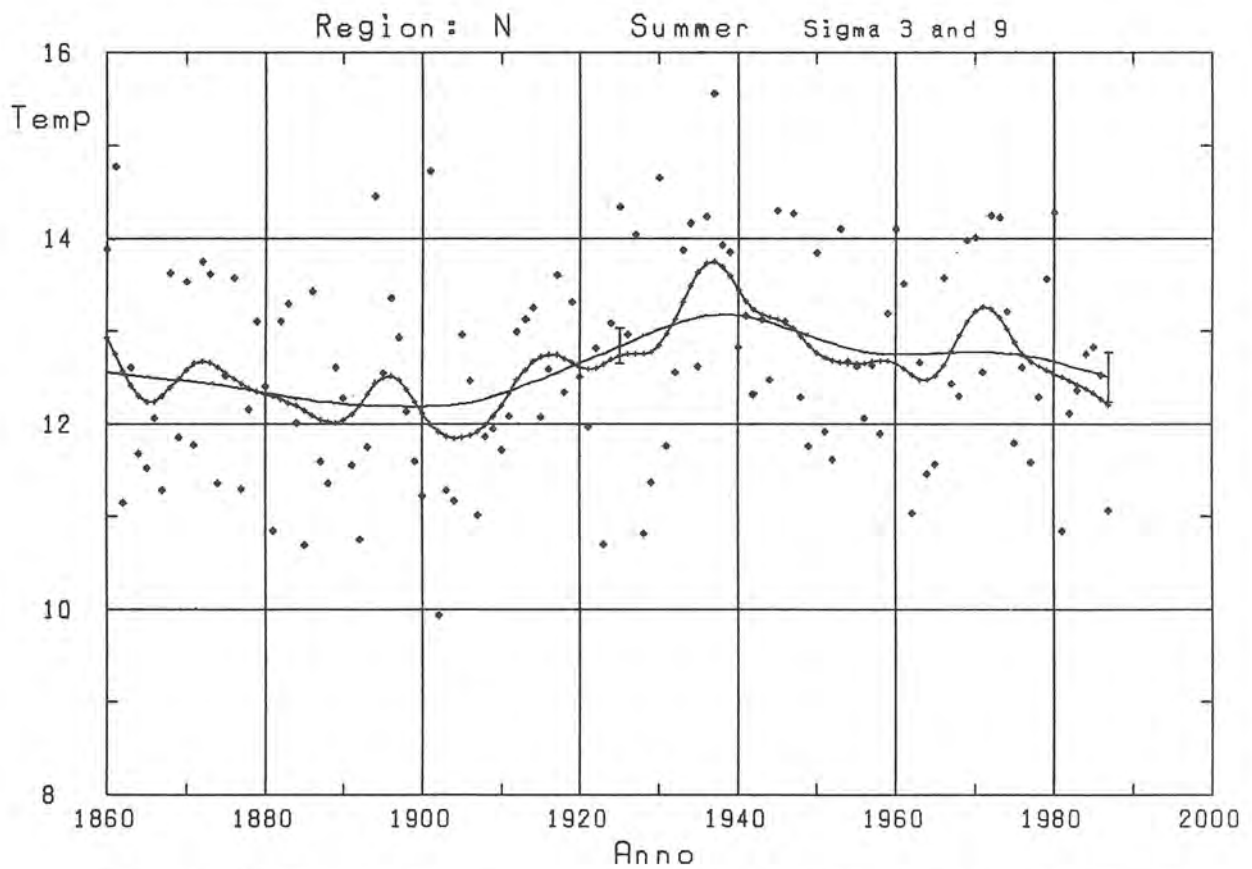


Figure 14. The summer mean temperature 1860–1987 in region N along with two low-pass filtered curves.

Temperature, autumn (Sep, Oct, Nov) means.

The trends for the two regions show the same characteristics. The temperature climate improved from low values during the first years in the series to a maximum around 1940 and after that temperature has deteriorated. In region N the most smoothed curve increased  $1.5^{\circ}\text{C}$  while the decrease amounts to  $0.7^{\circ}\text{C}$ . The corresponding figures in region S are  $0.8^{\circ}\text{C}$  and  $0.4^{\circ}\text{C}$  respectively.

The lowest autumn mean temperature occurred in 1871 in the south area and in 1864 (again outside of frame) in the north area. The mildest autumns were 1934, 1938 and 1949 in region S and 1938 and 1961 in region N.

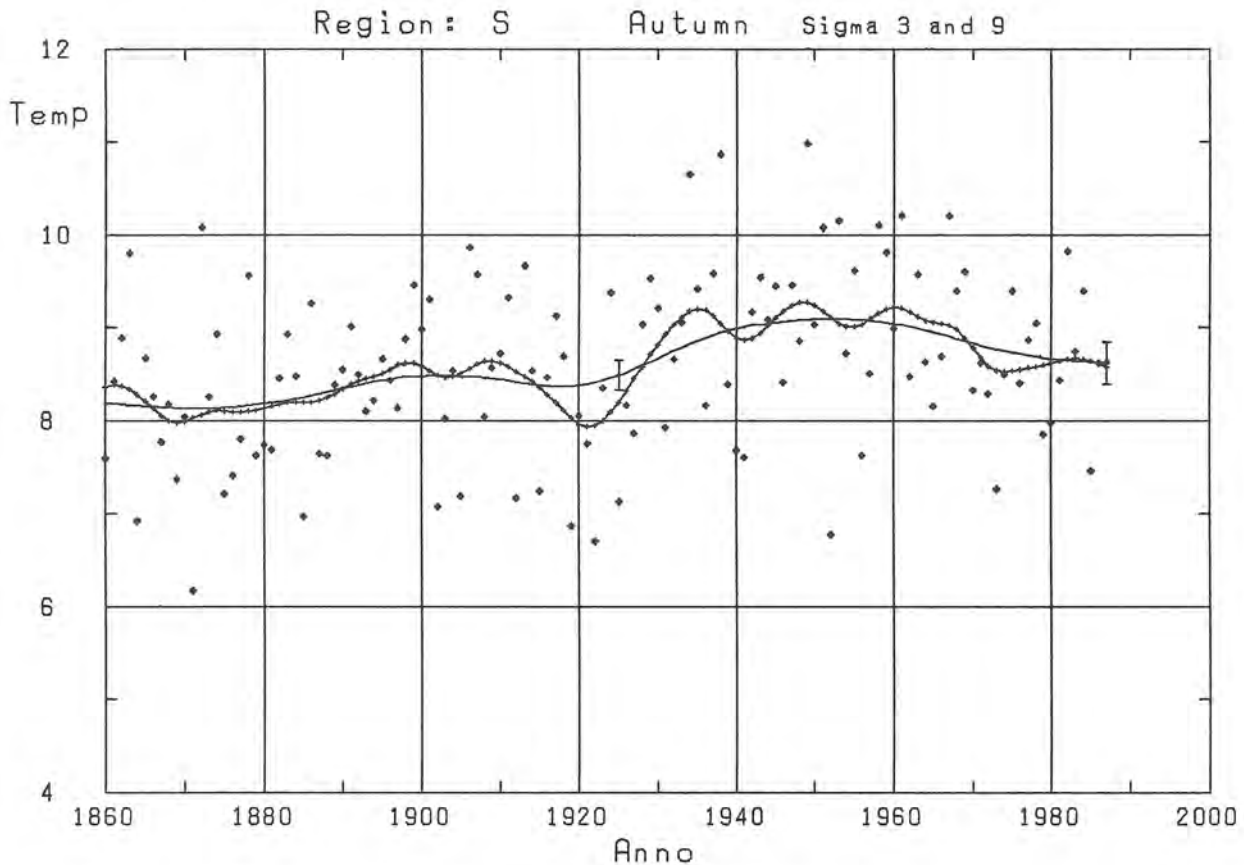


Figure 15. The autumn mean temperature 1860–1987 in region S along with two low-pass filtered curves.

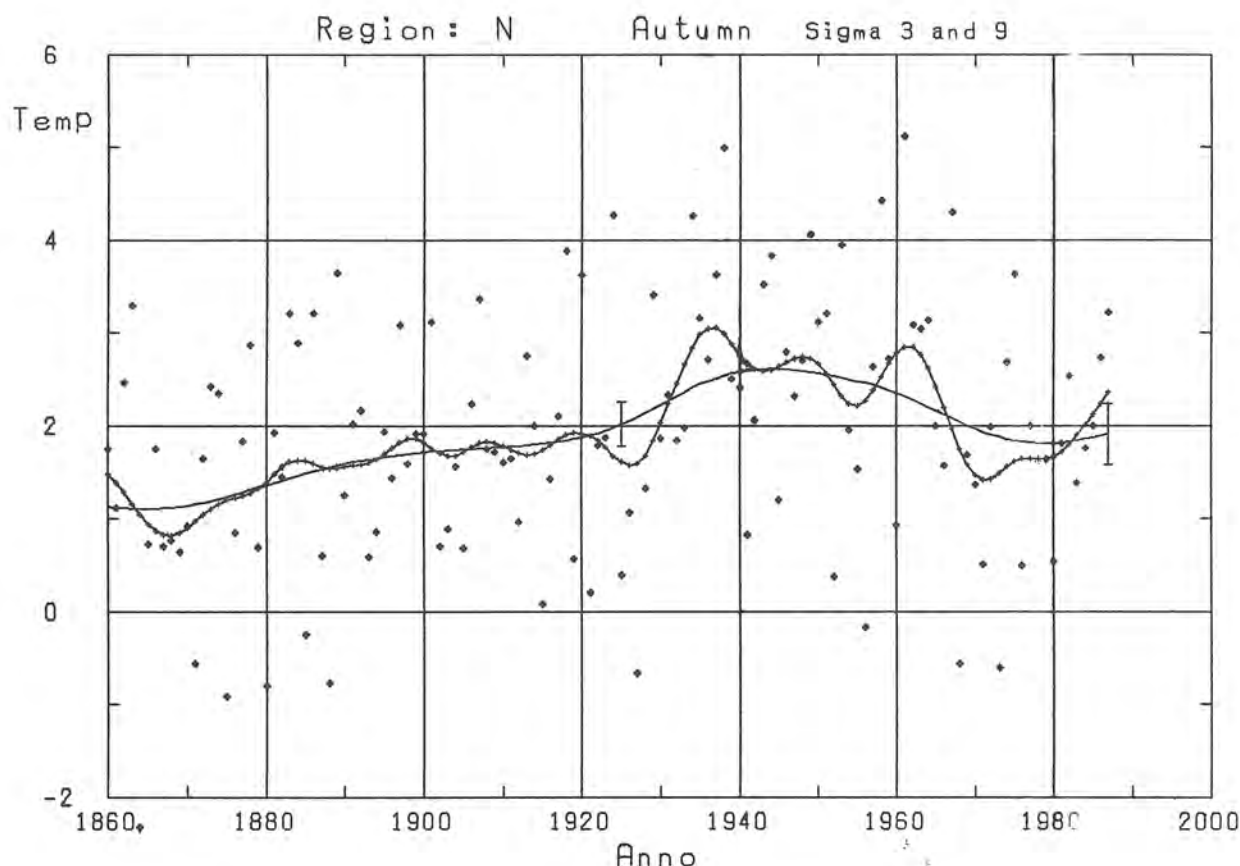


Figure 16. The autumn mean temperature 1860–1987 in region N along with two low-pass filtered curves.

#### Precipitation, annual amounts.

The instrumentation for measuring precipitation amounts has changed somewhat during the period. The most important improvement was achieved when the gauges were equipped with wind shields. This happened in the south region for the stations used during 1922–1950. In the north region the shield was introduced between the years 1900–1915. The shield had the effect that 25–50% more snow was collected at a field experiment at Särna, but for rain only 2–3% higher amounts fell in the gauge.

Also the less sheltered and often elevated sites used in the earlier years have negative effect on the measured amounts. Although the homogeneity test has detected some of the erroneously low values and corrections have been made there is still a risk of a common underestimation.

The annual mean increase of about 10% in the north part of Sweden and of about 6% in the south can partly (or wholly?) be attributed to these effects. The remaining real part (?) is in a way in accordance with temperature data since the cold winters in the earlier decades should have been mainly anticyclonic. Also the more meridional circulation in later decades and the increase in cloudiness should be favourable for more precipitation in most of Sweden but perhaps less in the western fells.

The uncertainty in earlier precipitation data points at the need for an increased amount of climate records. This is most feasible from 1880 and onwards when many climate stations have been in operation and placed at well sheltered inland sites. Therefore we hope that future extended studies will clarify some of the uncertainties revealed here.

Except for the lower level in the first half of the studied period the precipitation records show very gentle developments in the smoothed presentation. Though the temperature has changed quite notably it is remarkably small changes of the precipitation records from say the temperature optimum in the 1930th to the much less favoured 1980th.

The lowest annual amounts were measured during the early part of the period 1860–1987. In region S the years 1868 and 1886 show the lowest sums and in the north region 1875, quite a cold year, was the driest. The highest amounts were observed in 1945 in the south area and in 1935 in the north area. In the south this is much due to the excessive amounts that poured down over Småland in the month of August when Växjö received 141 mm in one single day the 14. The year 1866 was very wet in both regions.

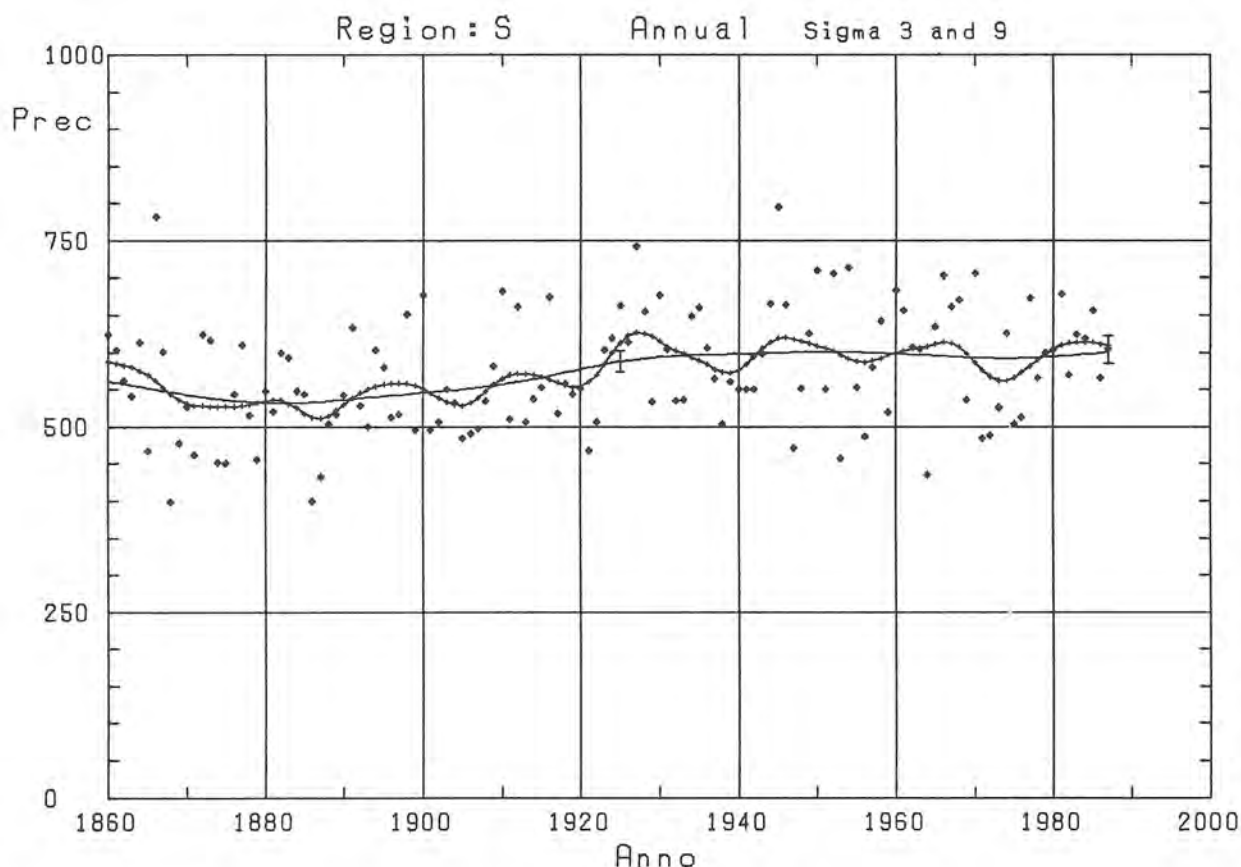


Figure 17. The annual precipitation 1860–1987 in region S along with two low-pass filtered curves.

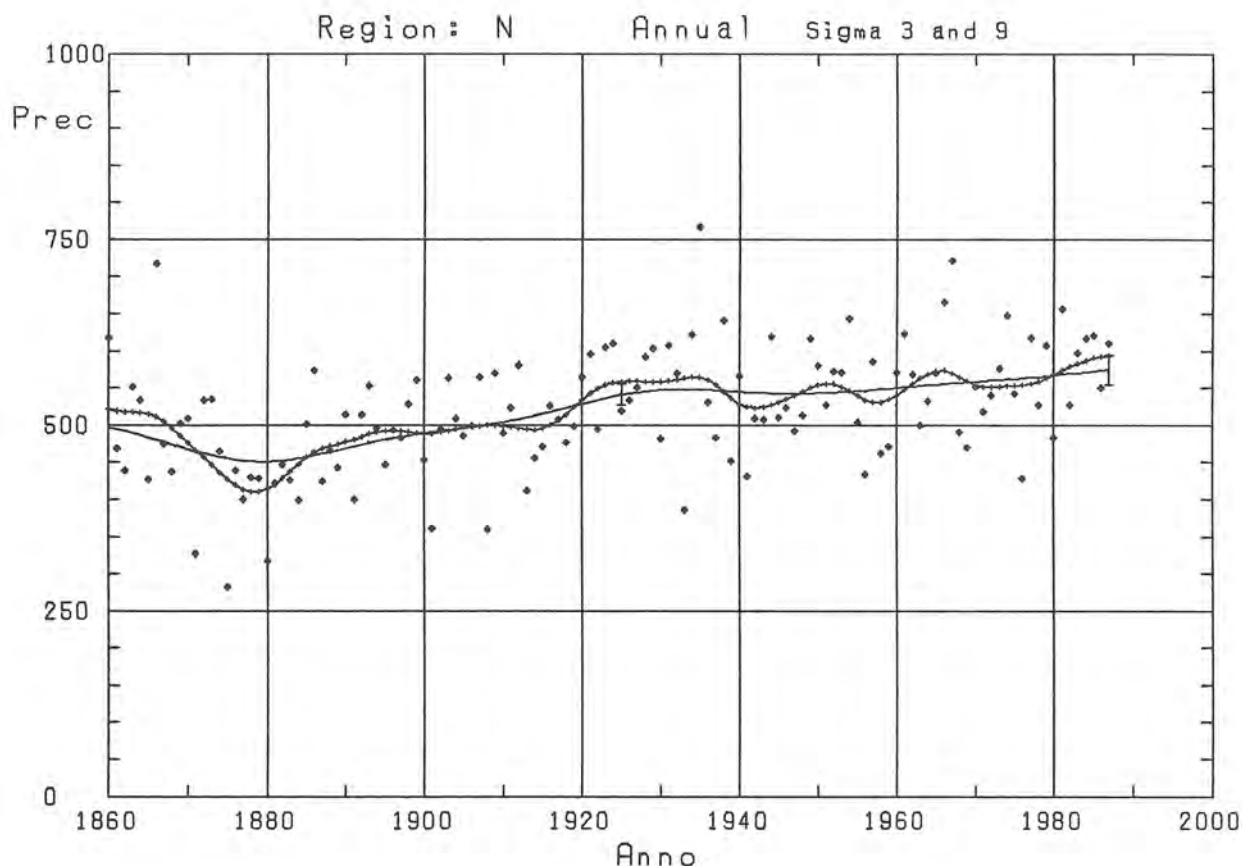


Figure 18. The annual precipitation 1860–1987 in region N along with two low-pass filtered curves.

#### Precipitation, winter (Dec, Jan, Feb) amounts.

During winter the amounts measured in region S were 20% higher at the beginnings of the 1860th than around 1890. From that time there was a trend towards a level about 40 mm higher, which was achieved in the 1950th. This level has been rather constant during the latest decades. Part of the 40% increase from 1890 until 1950, maybe half of that amount, can be artificial. It is probably a real fact that winter precipitation was somewhat lower during the cold epoch of the first part of the series. In the north region there was a lot of winters with low snow amounts during the period 1870–1900. The measured amounts increased 35%, somewhat less than in the south region, from 1890 to 1960. The small decrease during the latest years may well be accidental.

In region S the smallest amount during the three winter months was received during the season 1963/64 and the highest was reported in 1976/77. In the north region the extremes occurred in 1874/75 and 1966/67 respectively. The difference between the extreme values happens to be the same in the two regions.

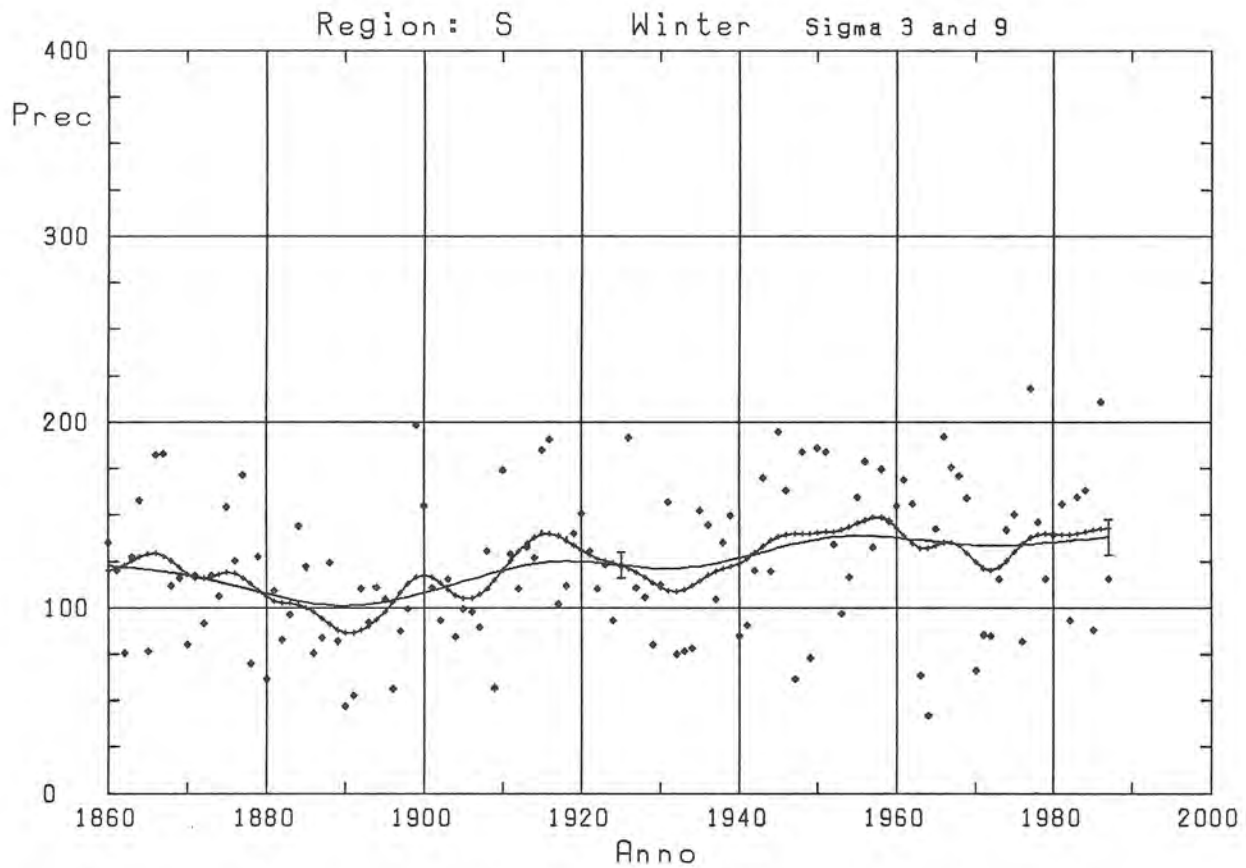


Figure 19. The winter precipitation 1860–1987 in region S along with two low-pass filtered curves.

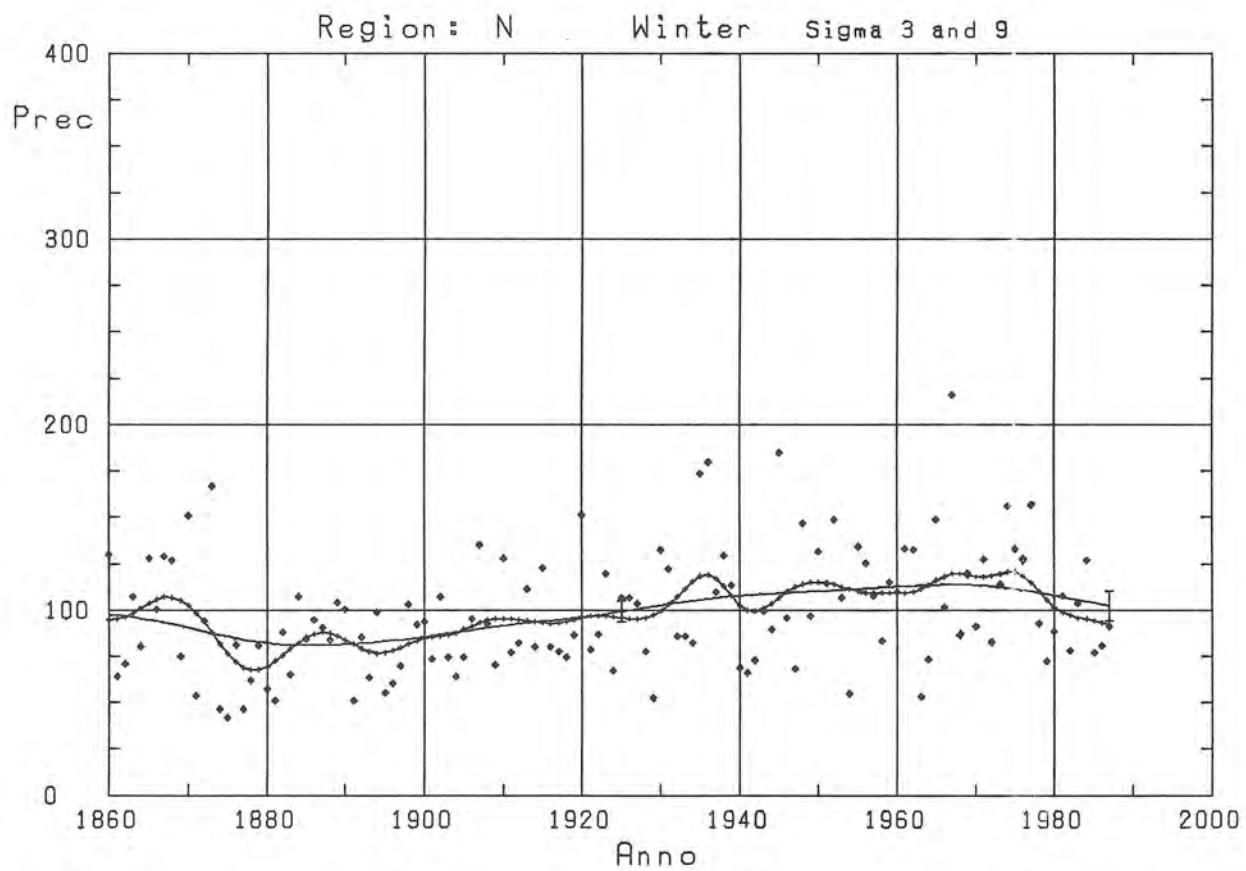


Figure 20. The winter precipitation 1860–1987 in region N along with two low-pass filtered curves.

### Precipitation, spring (Mar, Apr, May) amounts.

The precipitation amounts in region S have increased 20% from 1860 to 1987 if one looks upon the long term trend. But some part of this is, as pointed out earlier, due to the measuring technique. In region N the increase is about 30%. A greater part of the amounts falls as snow in region N than in region S. Of that reason one can conclude that the underestimate of the true amounts is larger in region N.

In region S the driest spring season was 1865 and the wettest was 1924. The variability of precipitation amounts was higher in the south region than in the north. The driest spring in region N occurred in 1974 and those years with highest precipitation were 1926, 1973 and 1977.

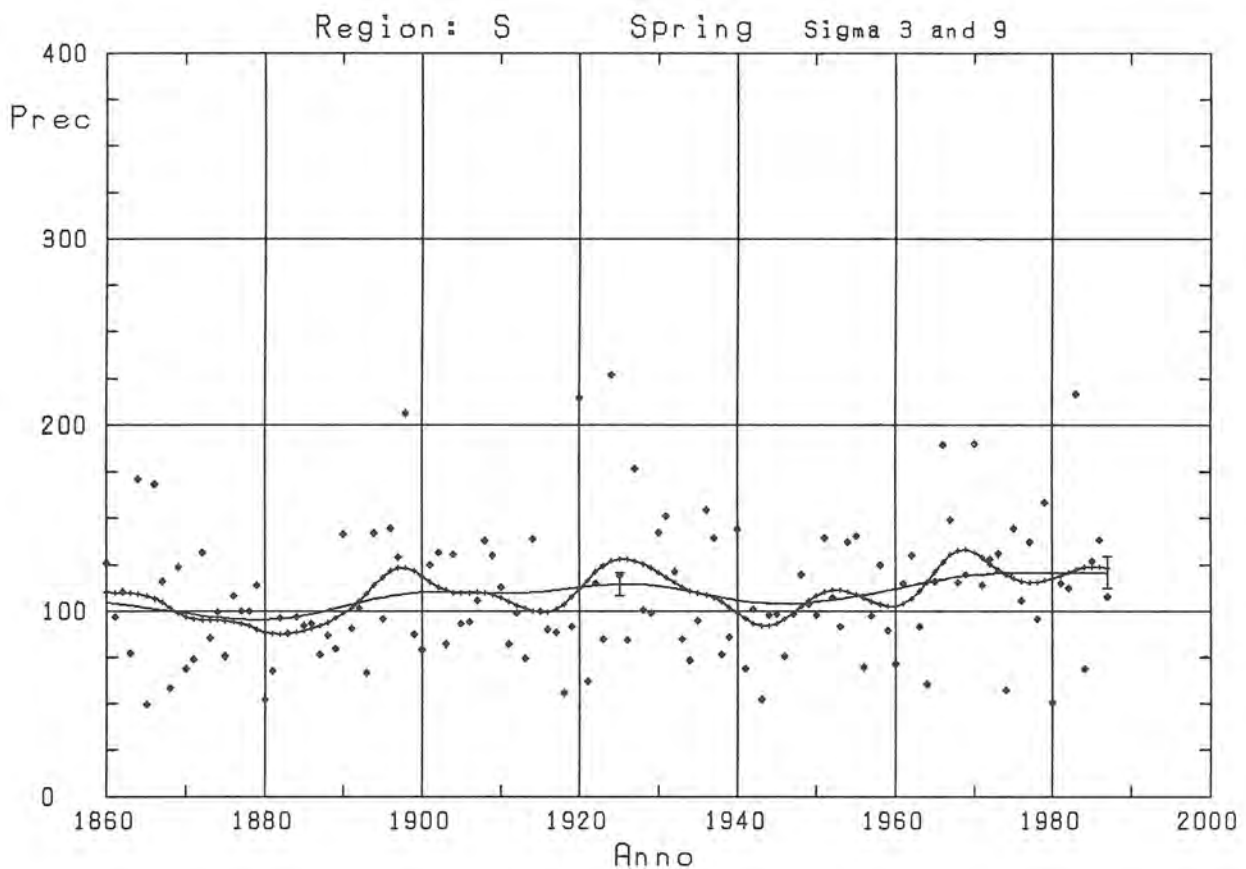


Figure 21. The spring precipitation 1860–1987 in region S along with two low-pass filtered curves.

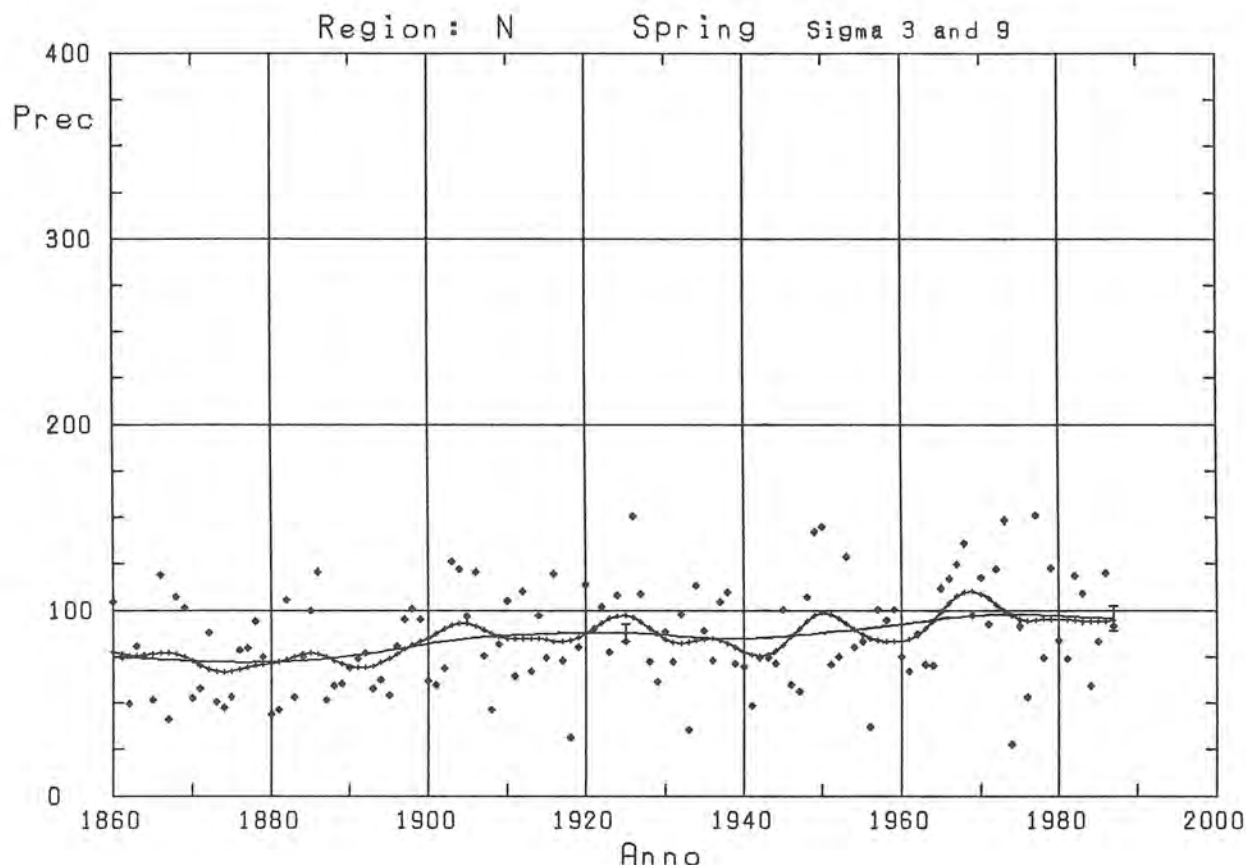


Figure 22. The spring precipitation 1860–1987 in region N along with two low-pass filtered curves.

**Precipitation, summer (Jun, Jul, Aug) amounts.**

In the south region there occurred a lot of dry summers around 1870 and also a century later. From 1940 there has been a trend towards less summer precipitation amounts and the smoothed curves give lower values at the end than in the beginning of the time period studied. The decrease from the maximum 1949 to 1970 is almost 40% in the sigma 3 curve. The most smoothed curve gives a drop of about 20%. Even the north region had some dry summers during the 1870th and the 1970th. A difference from region S is that the earlier drop is the most pronounced one. The mean level was higher during the time span 1930–1950.

The wettest summer in the south area was 1945 and the driest were 1868, 1973 and 1983. The range is 280 mm. In the north both the extreme values occurred in the 1860th, namely in 1866 (max) and in 1868 (min). The range is 240 mm.

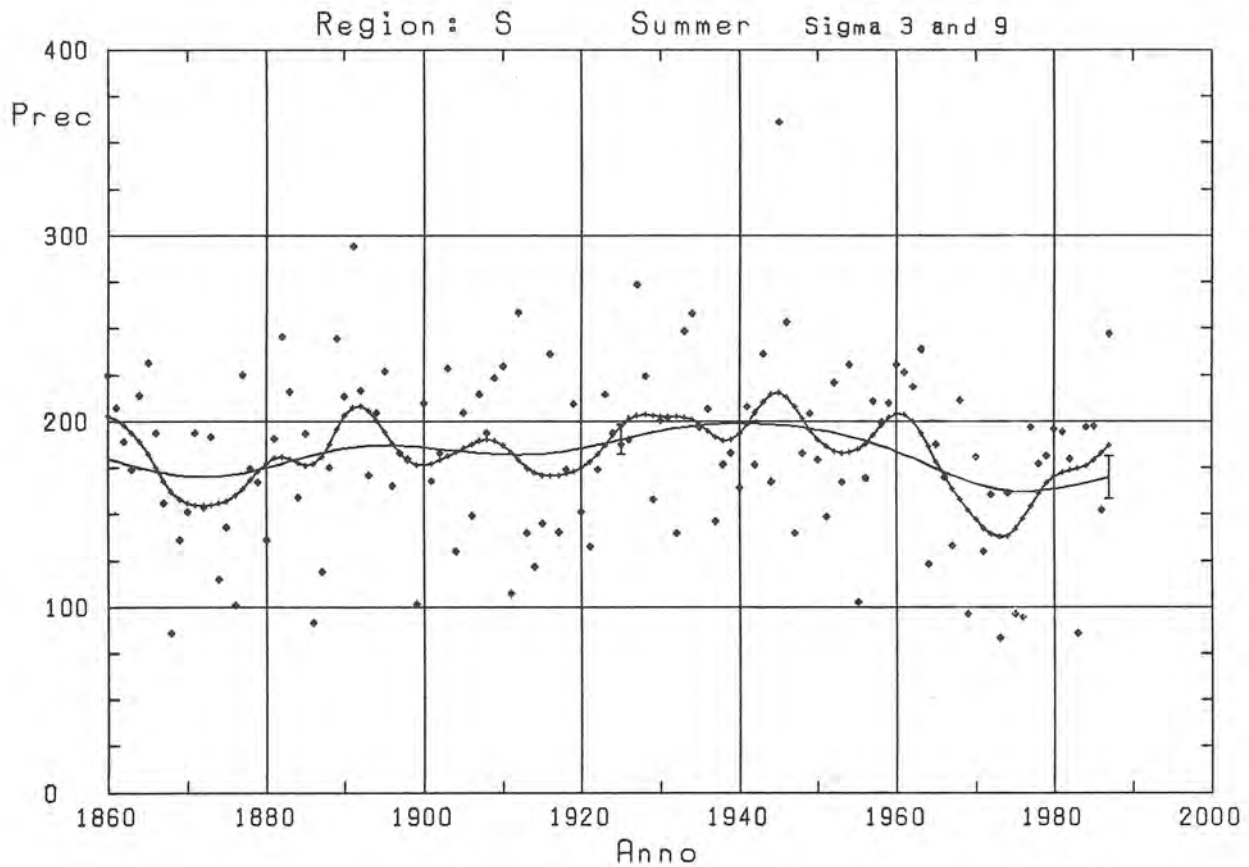


Figure 23. The summer precipitation 1860–1987 in region S along with two low-pass filtered curves.

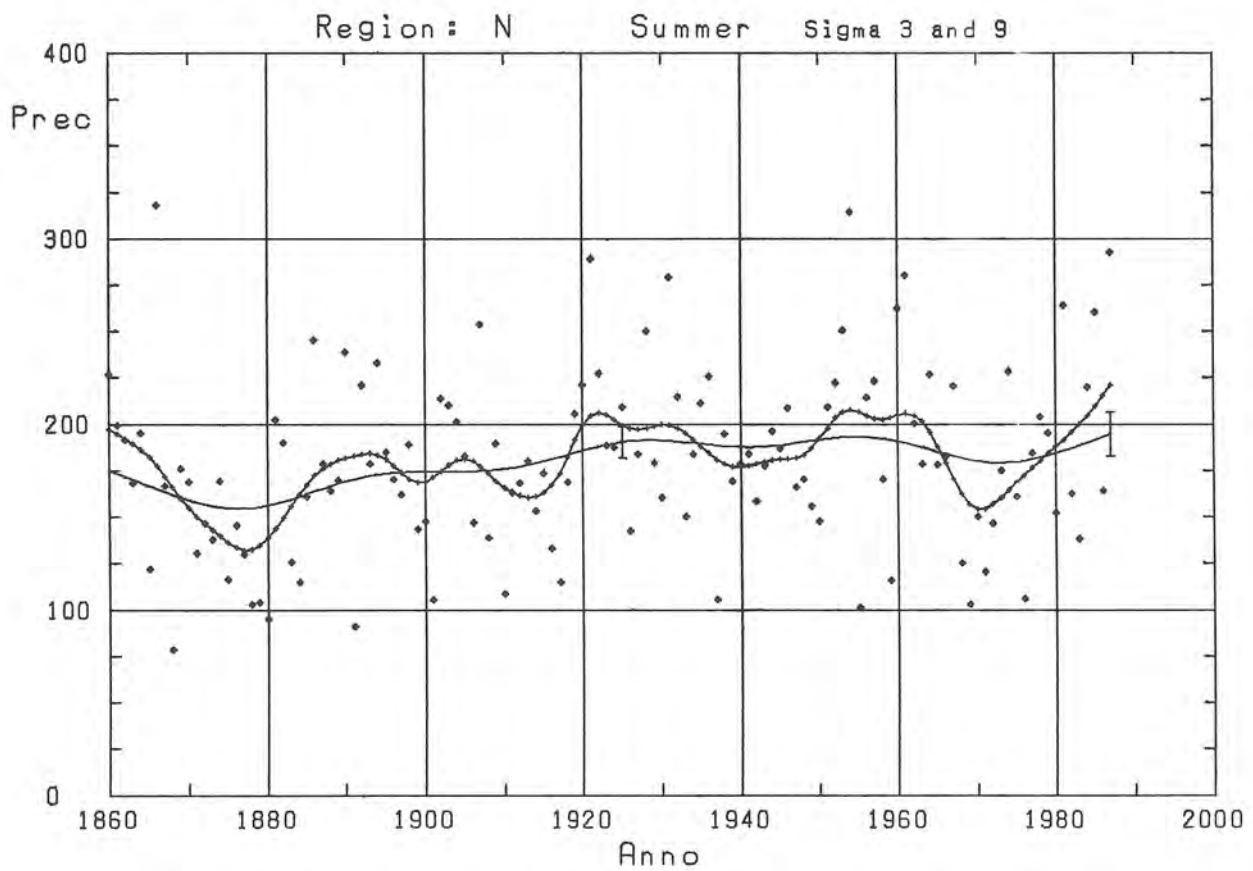


Figure 24. The summer precipitation 1860–1987 in region N along with two low-pass filtered curves.

Precipitation, autumn (Sep, Oct, Nov) amounts.

In region S there was a trend towards less autumn precipitation during the 19th century, but after 1900 there has been a slow upward trend. At the end of the time series the filtered mean value is 15 mm higher than at the start of the period and 30 mm higher than at the minimum point. Also in region N the autumn precipitation showed a downward trend during the last decades of the 19th century. The precipitation sums increased 1890–1930. Some dry autumns during the 1950th caused a minimum in the long term trend. The trend from 1960 shows a significant increase of about 20% (30 mm).

The driest autumn in region S was 1907 and the seasons with highest precipitation were 1930, 1950, 1952 and 1970. In the north region 1882 was the driest and 1935 the wettest.

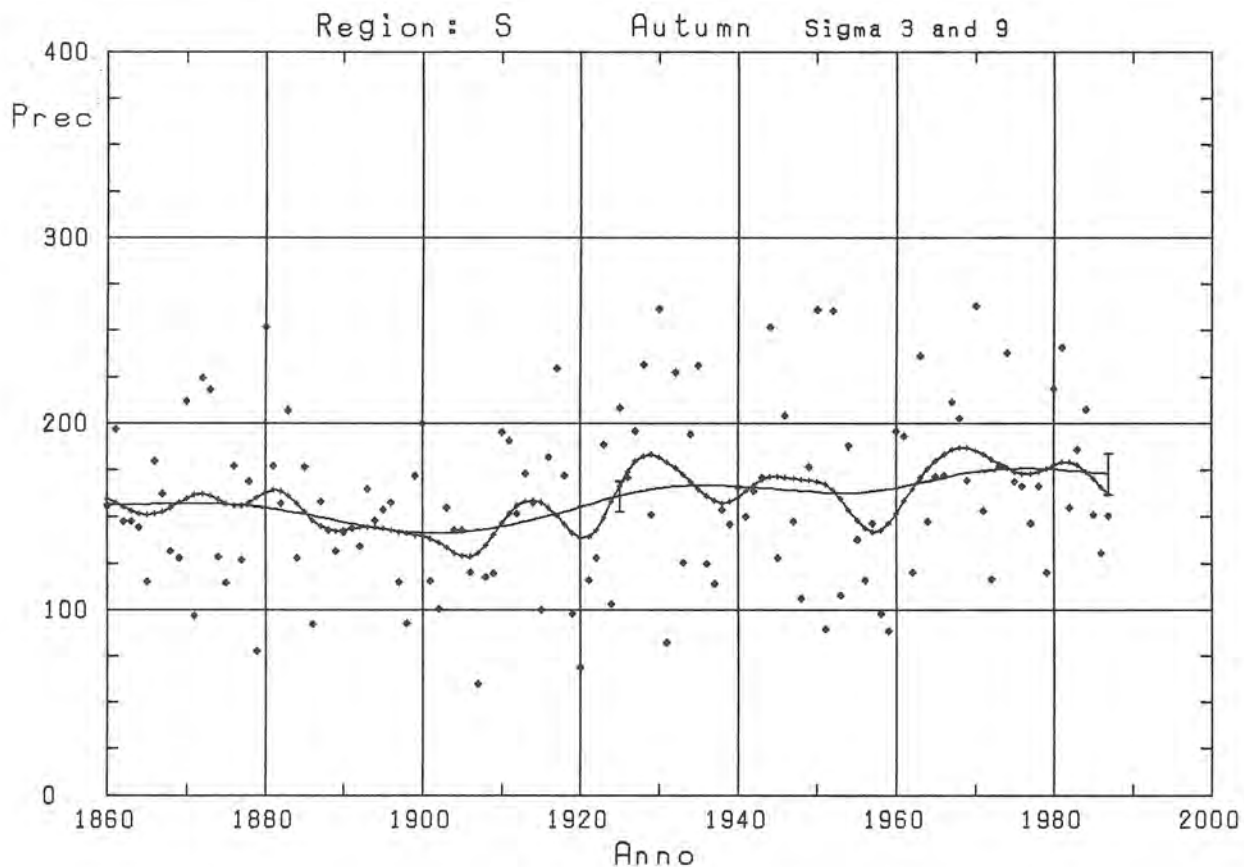


Figure 25. The autumn precipitation 1860–1987 in region S along with two low-pass filtered curves.

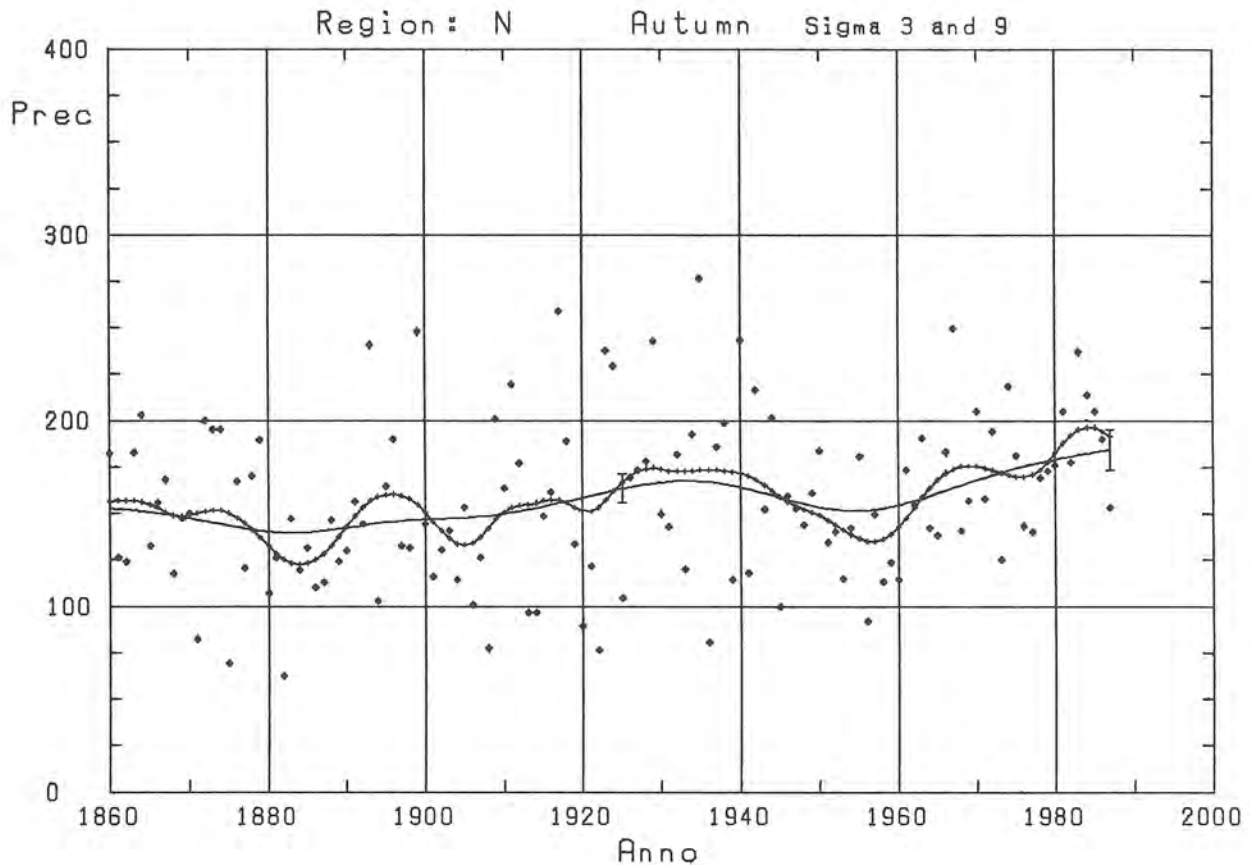


Figure 26. The autumn precipitation 1860–1987 in region N along with two low-pass filtered curves.

#### Pressure, annual values.

The variations in temperature and precipitation climate are closely related to changes of the general circulation and the patterns of air pressure. By studying the time series of air pressure one may possibly draw some physical explanations of causes for the climate changes. However, one can not expect to find so much information in monthly air pressure means. More information would be available if daily pressure values or certain indexes (zonal versus meridional flow, vorticity etc) could be analysed. But such long series of daily values are so far not available on data media.

Figures 27 and 28 show that there has been no marked trends in annual pressure during the period 1860–1987.

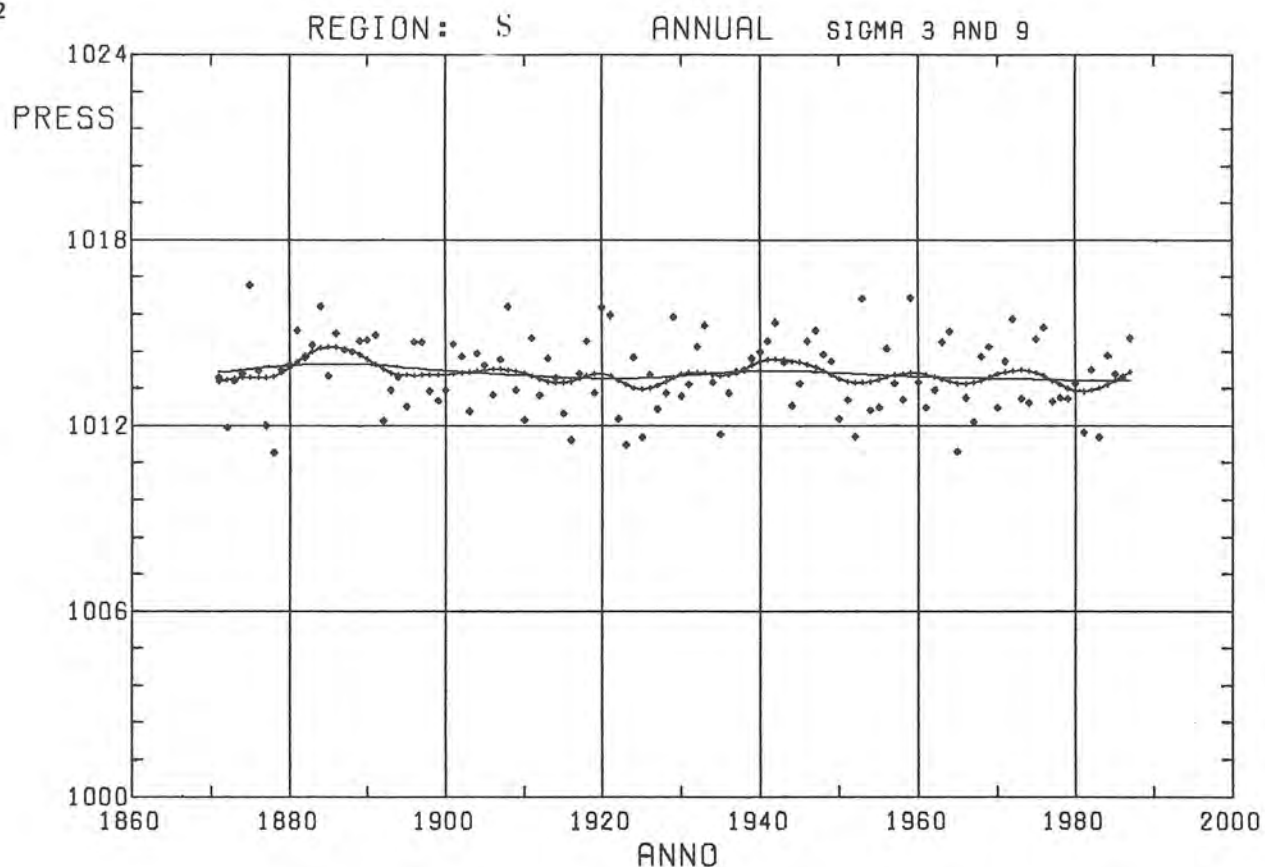


Figure 27. The annual pressure 1860–1987 in region S along with two low-pass filtered curves.

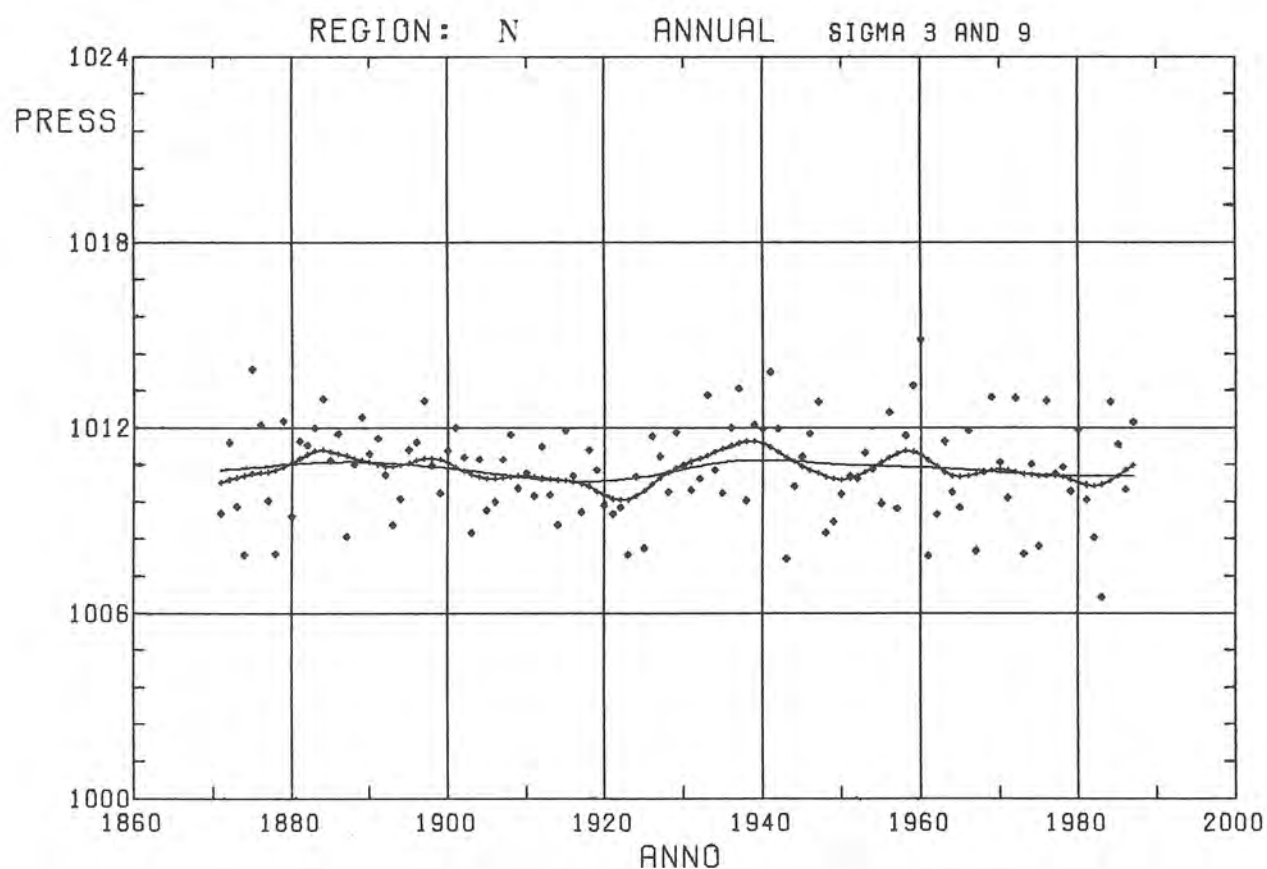


Figure 28. The annual pressure 1860–1987 in region N along with two low-pass filtered curves.

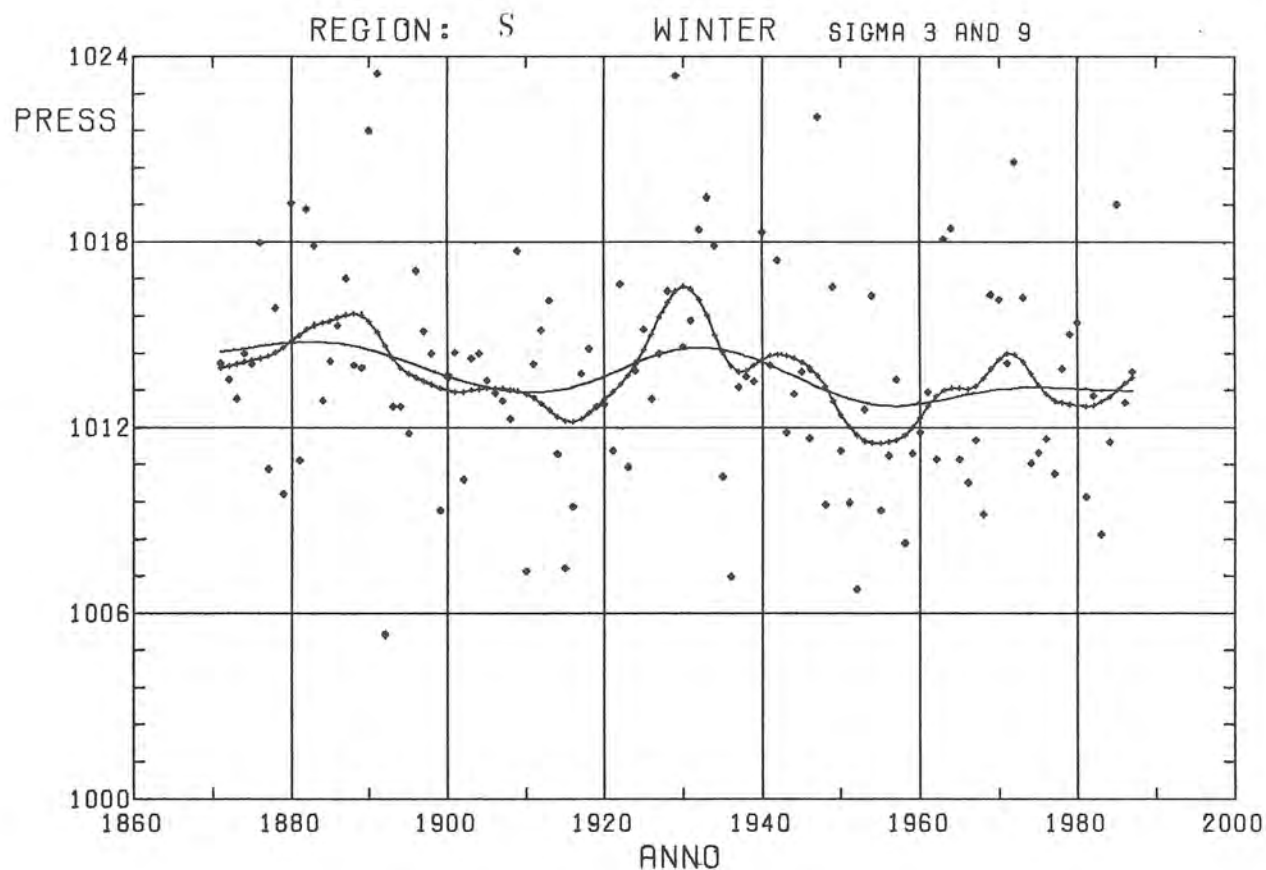


Figure 29. The pressure during winter 1860–1987 in region S along with two low-pass filtered curves.

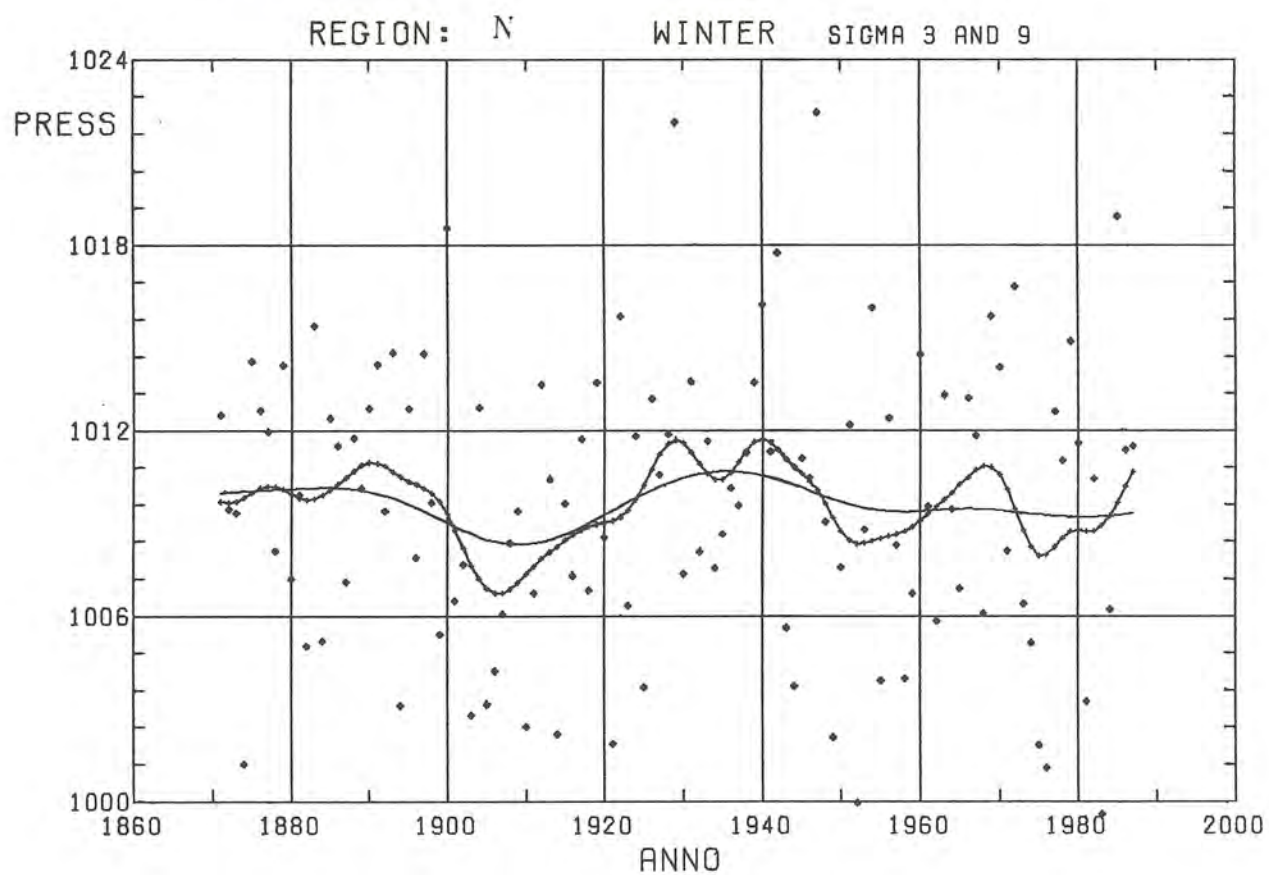


Figure 30. The pressure during winter 1860–1987 in region N along with two low-pass filtered curves.

Pressure, winter (Dec, Jan, Feb) values.

High pressure during winter in Sweden ought to give temperature and precipitation values below normal. Region S shows the lowest pressure mean values during the last years when temperature generally has been low, which is contrary to the foregoing sentence. In both regions the pressure had a maximum in the 1930th when temperature had an optimum. The conclusion is that it is not the pressure itself that is of main importance for the temperature but rather the advection of air masses with maritime or continental origin. This advection is closely coupled to pressure gradients.

Pressure, spring (Mar, Apr, May) and summer (Jun, Jul, Aug) values.

There has been no long term trends of any significance during spring and summer seasons.

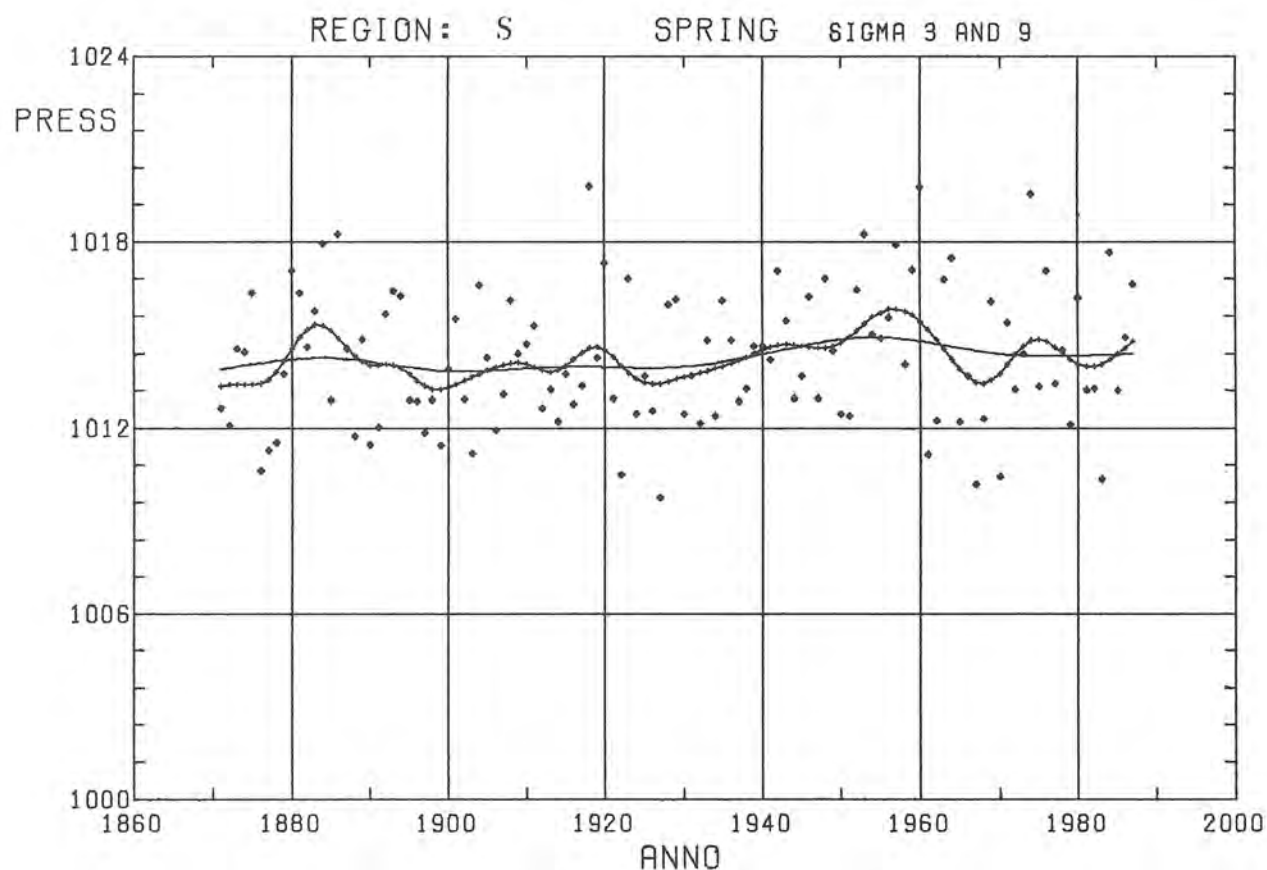


Figure 31. The pressure during spring 1860–1987 in region S along with two low-pass filtered curves.

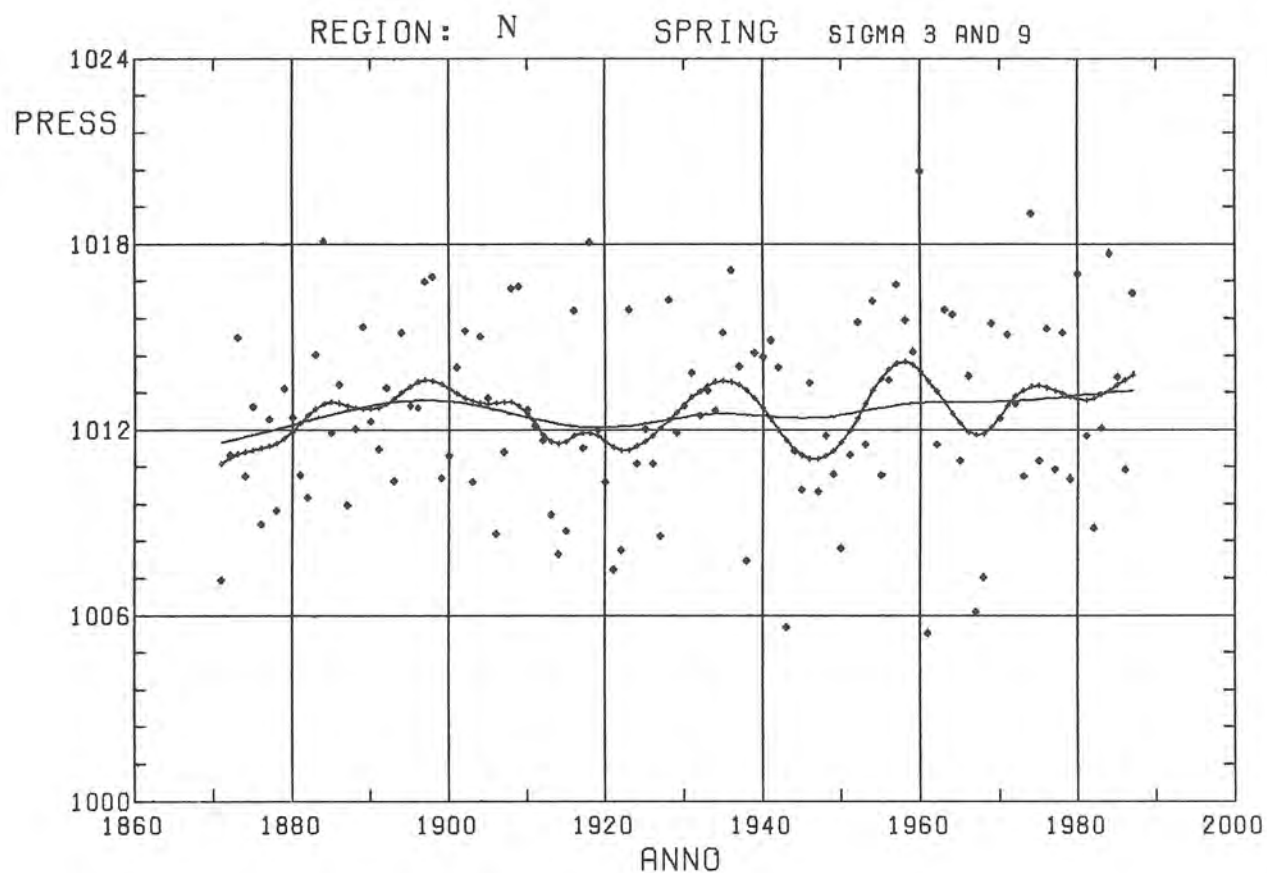


Figure 32. The pressure during spring 1860–1987 in region N along with two low-pass filtered curves.

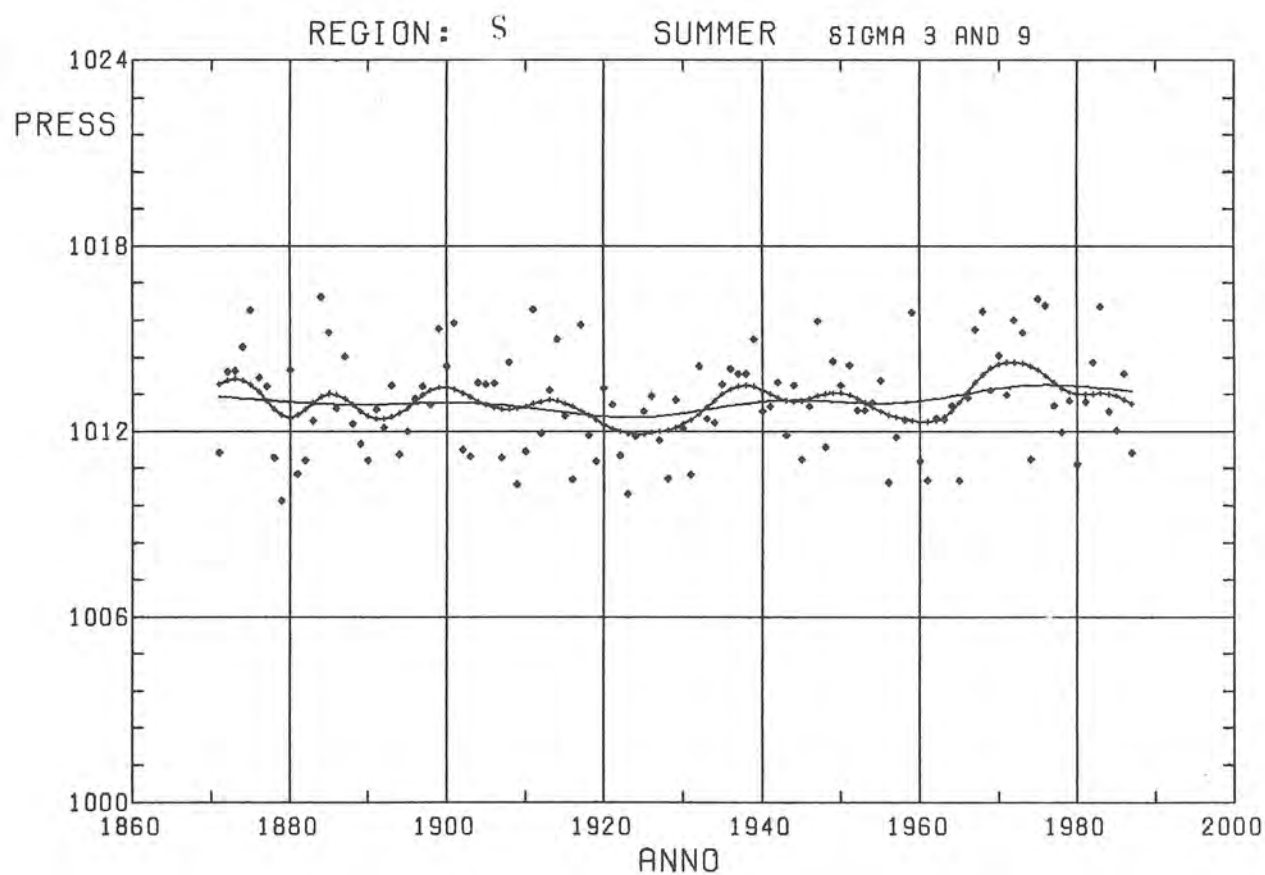


Figure 33. The pressure during summer 1860–1987 in region S along with two low-pass filtered curves.

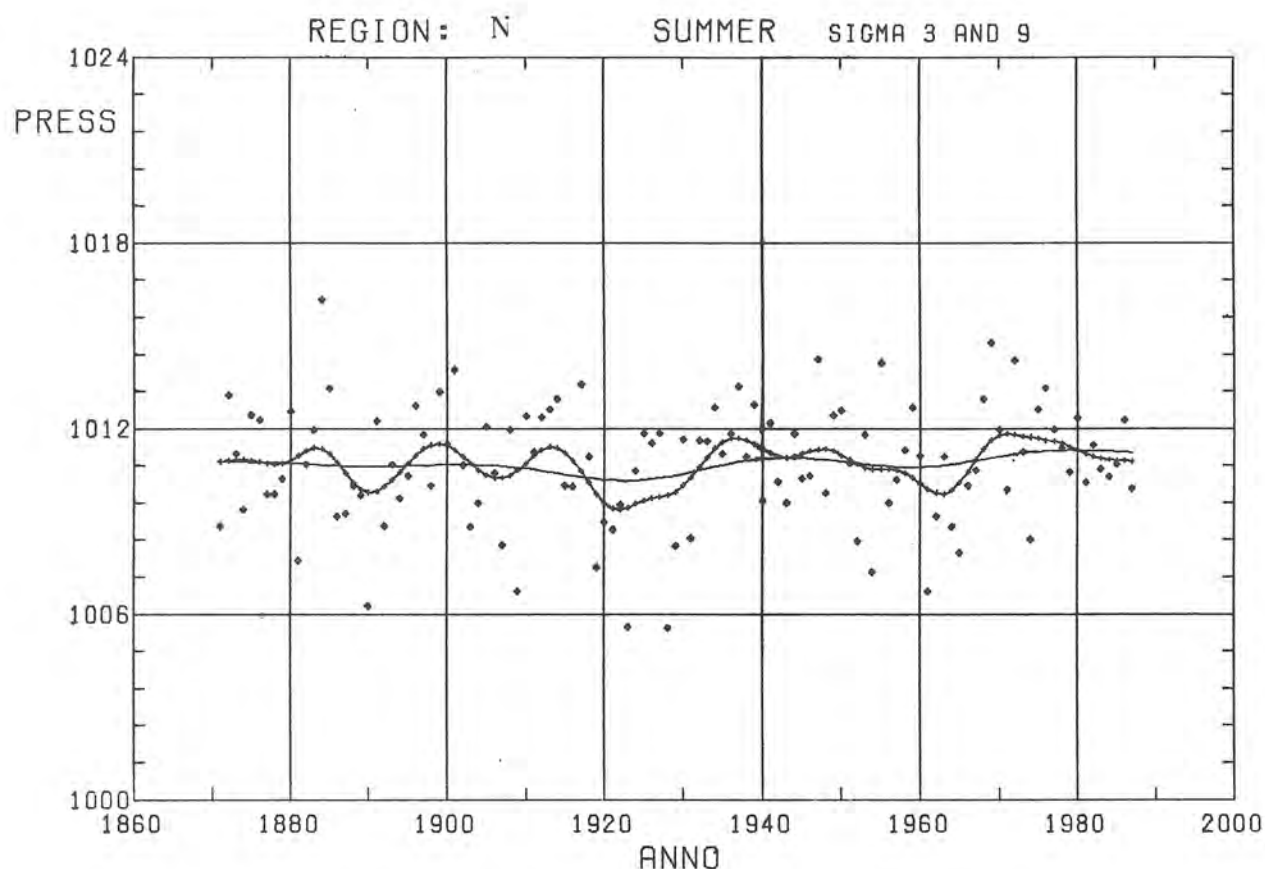


Figure 34. The pressure during summer 1860–1987 in region N along with two low-pass filtered curves.

**Pressure, autumn (Sep, Oct, Nov) values.**

The variability of seasonal pressure means is much larger during autumn and winter than during the warmer half of the year. In both regions there has been a tendency during the latest decades towards lower values. The frequency of lows passing Sweden has been higher leading also to greater precipitation sums, which can be seen in figures 25 and 26.

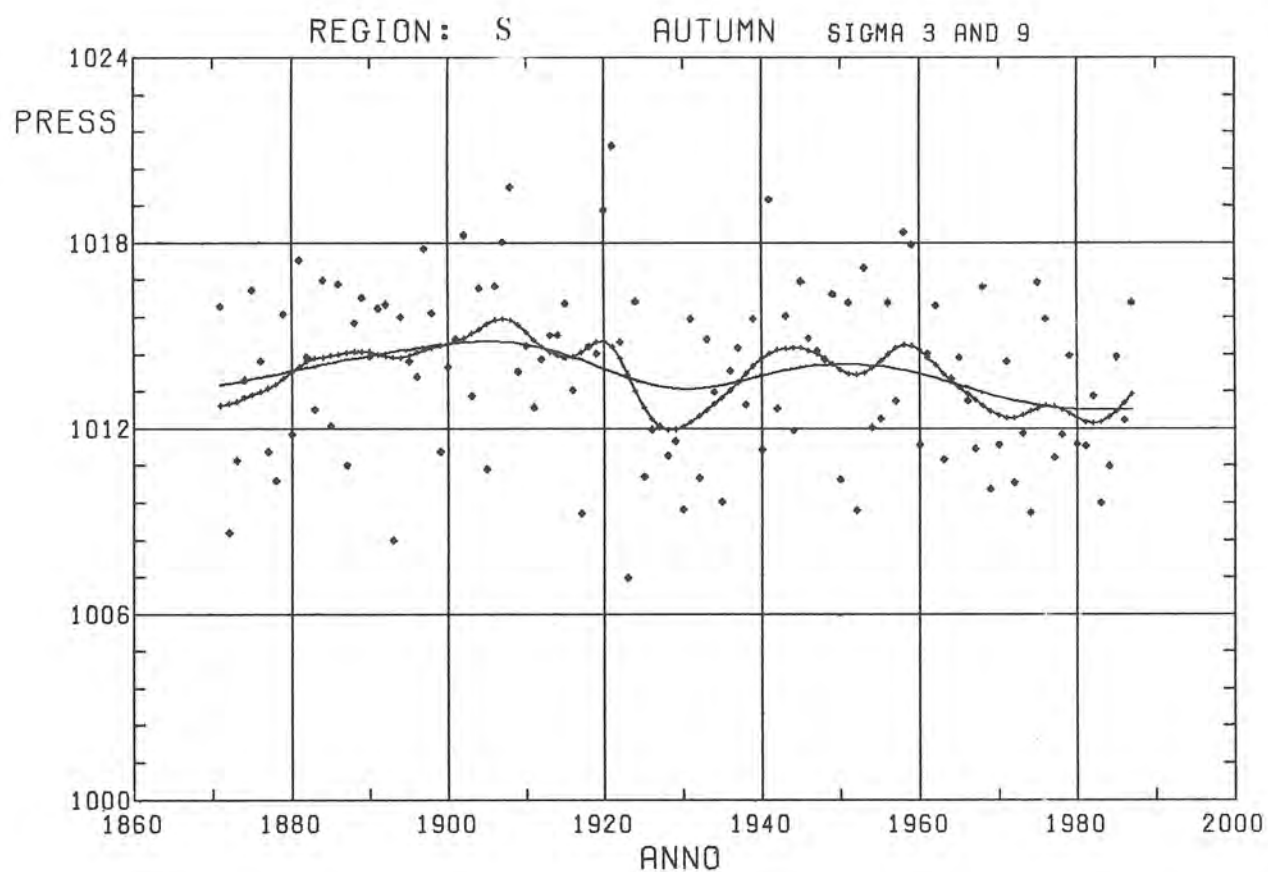


Figure 35. The pressure during autumn 1860–1887 in region S along with two low-pass filtered curves.

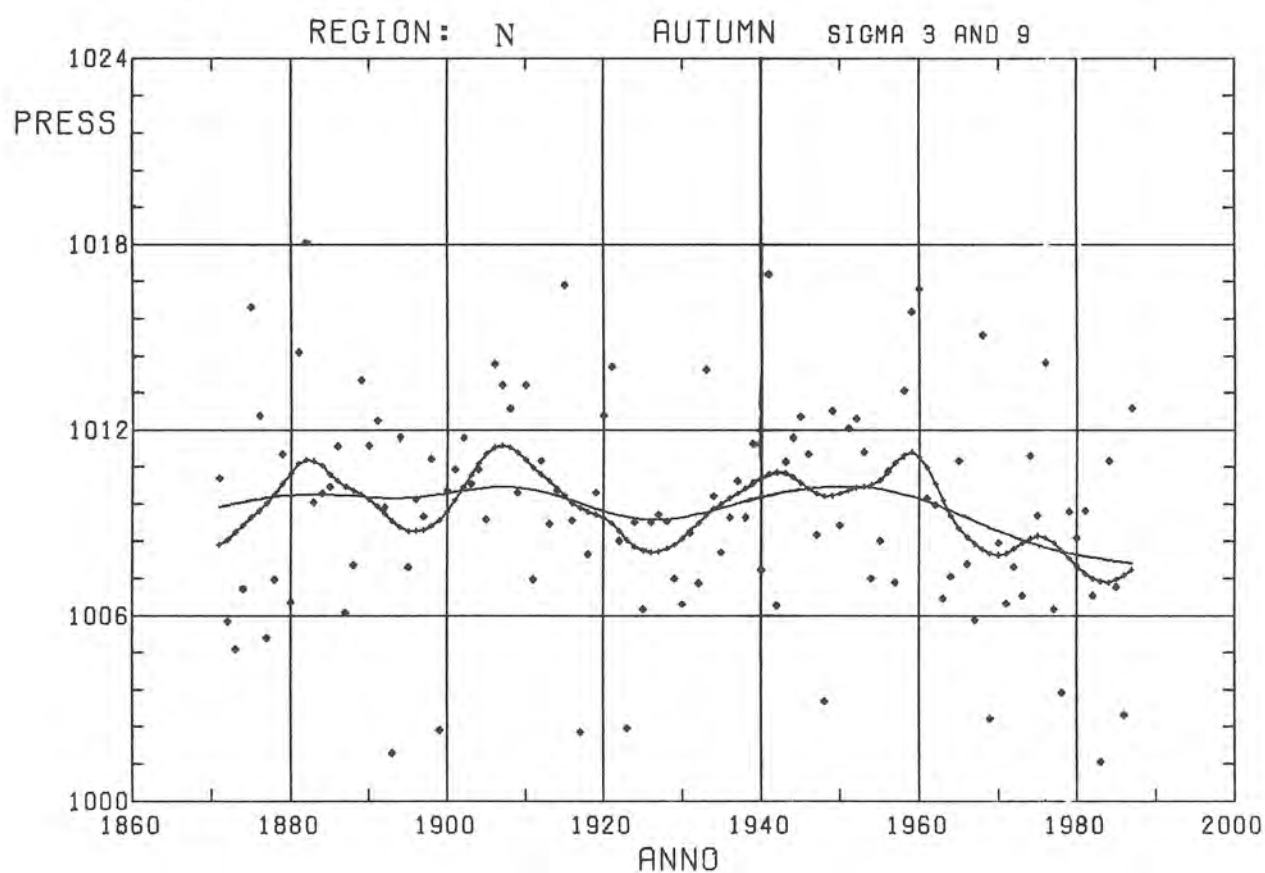


Figure 36. The pressure during autumn 1860–1887 in region N along with two low-pass filtered curves.

### Pressure gradient (N-S), annual values.

The difference between mean pressure in region S and N gives a measure of the zonal wind component over Sweden and Scandinavia. The zonal or west wind component was strongest during the 1910th. At the end of the 1930th the general circulation became weaker and the amplitude of the Rossby waves became higher leading to a change in the frequency of the cyclone tracks. The weather in Sweden became more influenced by lows from south, some of which is of so called VB-type. The weakening of the zonal wind between the decades 1870–1920 and 1930–1987 is about 10%.

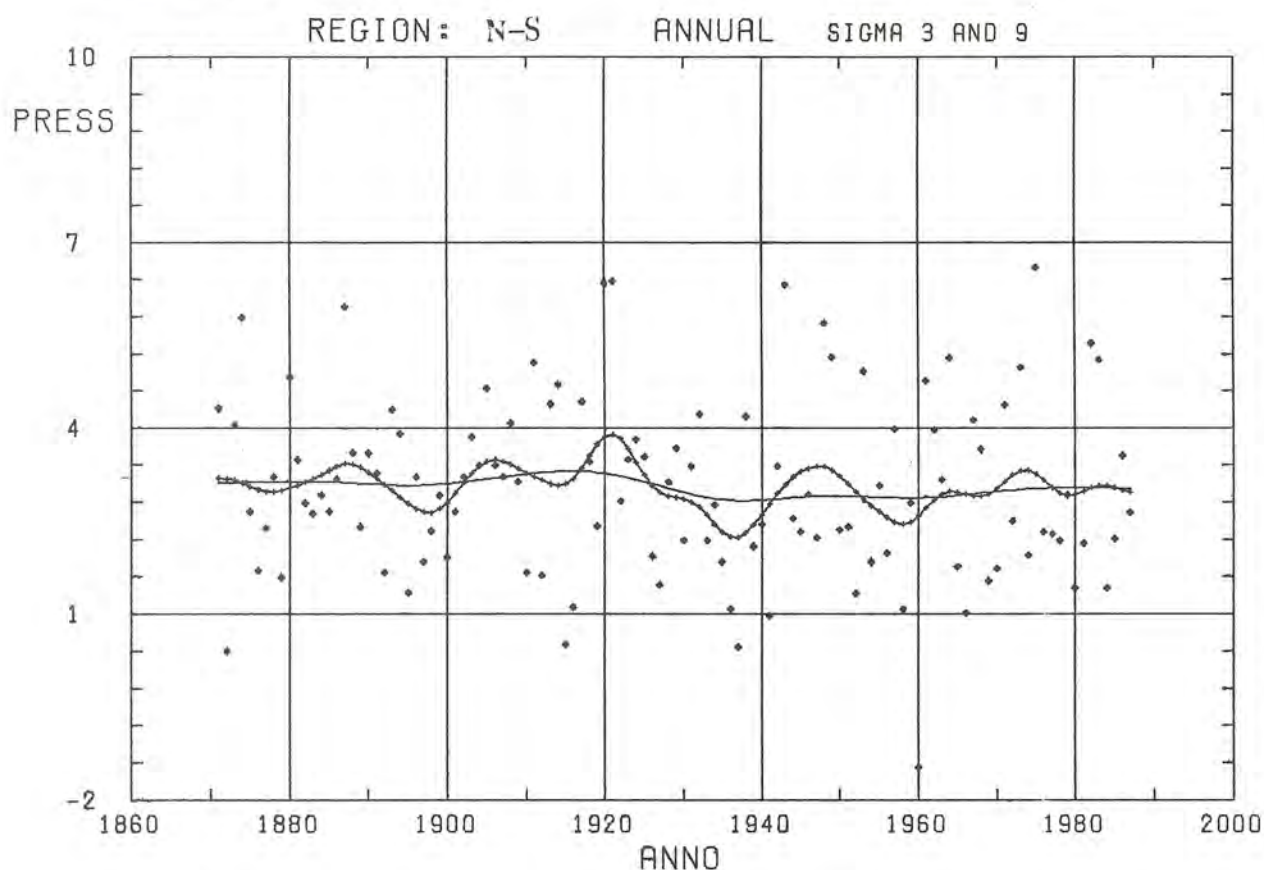


Figure 37. The annual pressure gradient during 1860–1987 given as a difference between region N and S along with two low-pass filtered curves.

### Pressure gradient (N-S), winter (Dec, Jan, Feb) values.

The west wind component was highest around 1910 and then corresponds to a mean value of 2.7 m/s. In around 1950 a minimum was reached and the gradient corresponds to a west wind component of 1.8 m/s. This means that the minimum value is only 2/3 of the maximum value. The advection of mild Atlantic air masses was weakened and cold air from north and east could invade Sweden more often than during the first decades of the 20th century. During the latest years one can notice a slight increase of the west wind component, but still it has continued quite cold, at least in northern Sweden.

The three most zonal winters with largest gradients are 1874, 1882 and 1949. All these were also warm or very warm winters in both regions. In region N the 1949 winter temperature value tangents the frame.

The three winters with lowest gradients 1879, 1892 and 1900 (they are even negative which corresponds to an easterly average flow) are somewhat below normal temperature except for 1892 in region S.

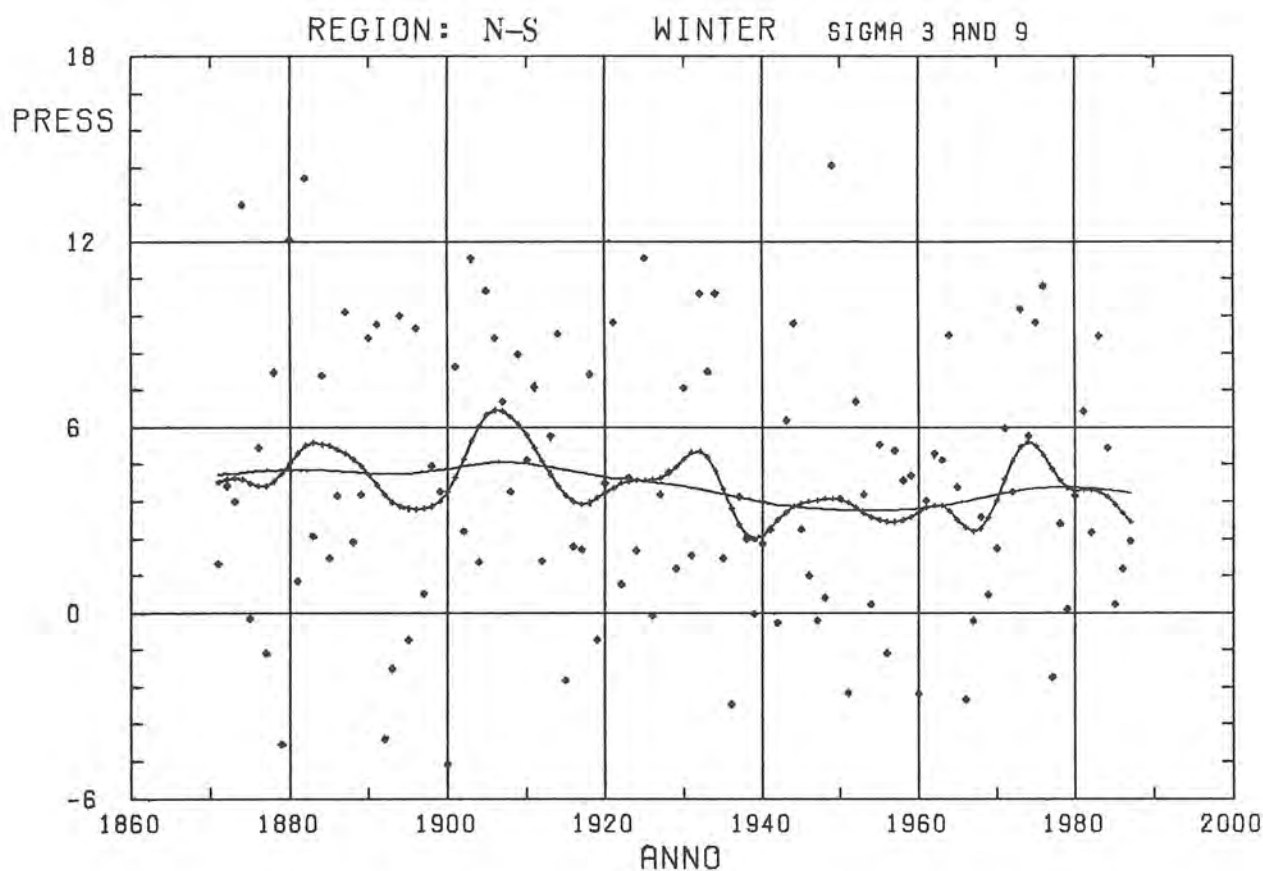


Figure 38. The winter pressure gradient during 1860–1987 given as a difference between region N and S along with two low-pass filtered curves.

Pressure gradient (N-S), spring (Mar, Apr, May) values.

The filtered curves show somewhat higher values around 1880, 1920 and during the 1940th. The lowest N-S pressure gradients occurred at the end of the 19th century and during the most recent years.

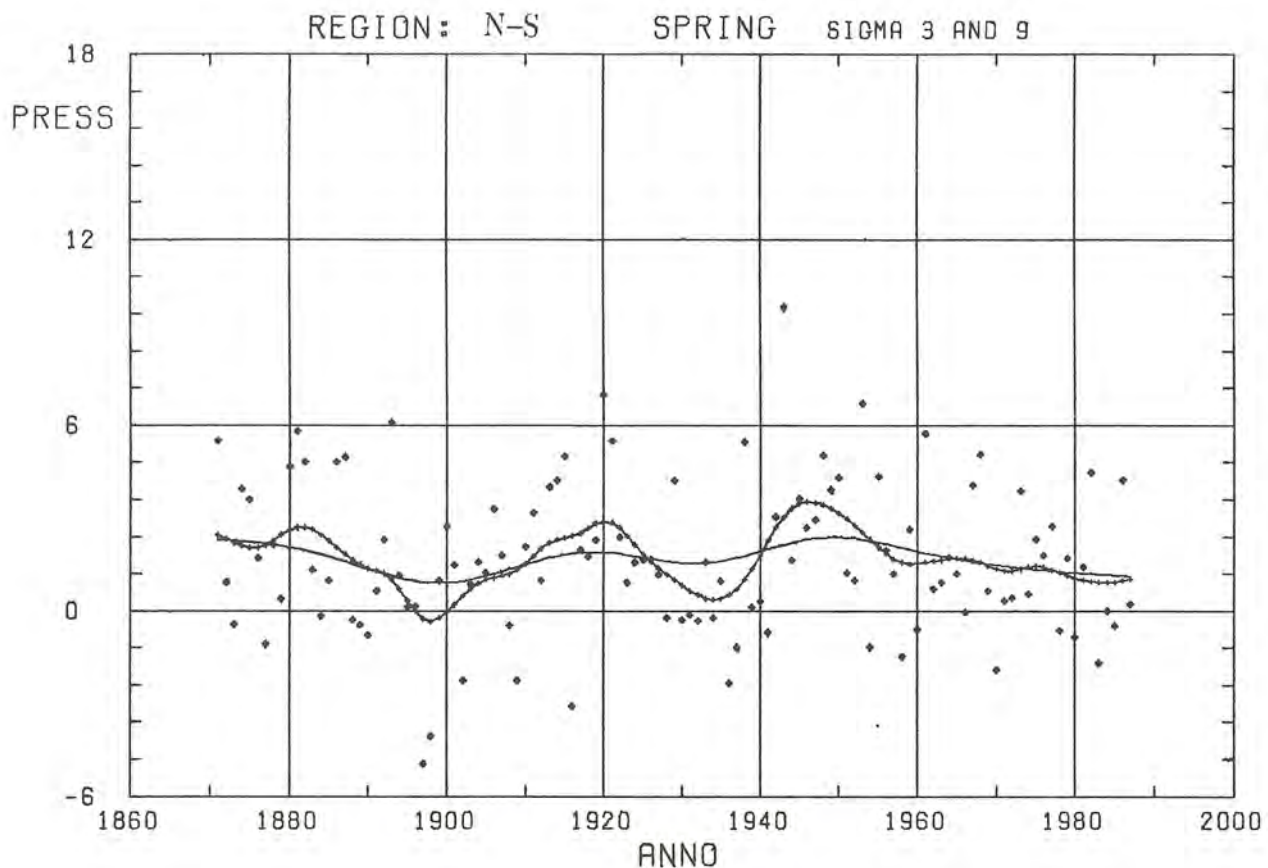


Figure 39. The spring pressure gradient during 1860–1987 given as a difference between region N and S along with two low-pass filtered curves.

**Pressure gradient (N–S), summer (Jun, Jul, Aug) values.**

There is no visible long term trend in the mean north–south gradient. The causes of deteriorating summer temperatures can not be coupled to changes of the mean zonal flow. Perhaps increased cloud amounts, as indicated by preliminary studies, play a more important role than the pressure gradient and advection in summer.

In summer one would perhaps expect that a large zonal gradient would correspond to low temperatures in Sweden. The three largest values occurred 1874, 1954 and 1983. No clear relationship with summer temperatures were found for this set of years. Also one could mention that the summer of 1954 was exceptionally wet in southwest Sweden while the summer of 1983 was exceptionally dry in large parts of Sweden except the western fells.

The lowest gradients in summer were found in 1899, 1969 and 1980 with easterly flow on average. These summers were generally warm in both regions.

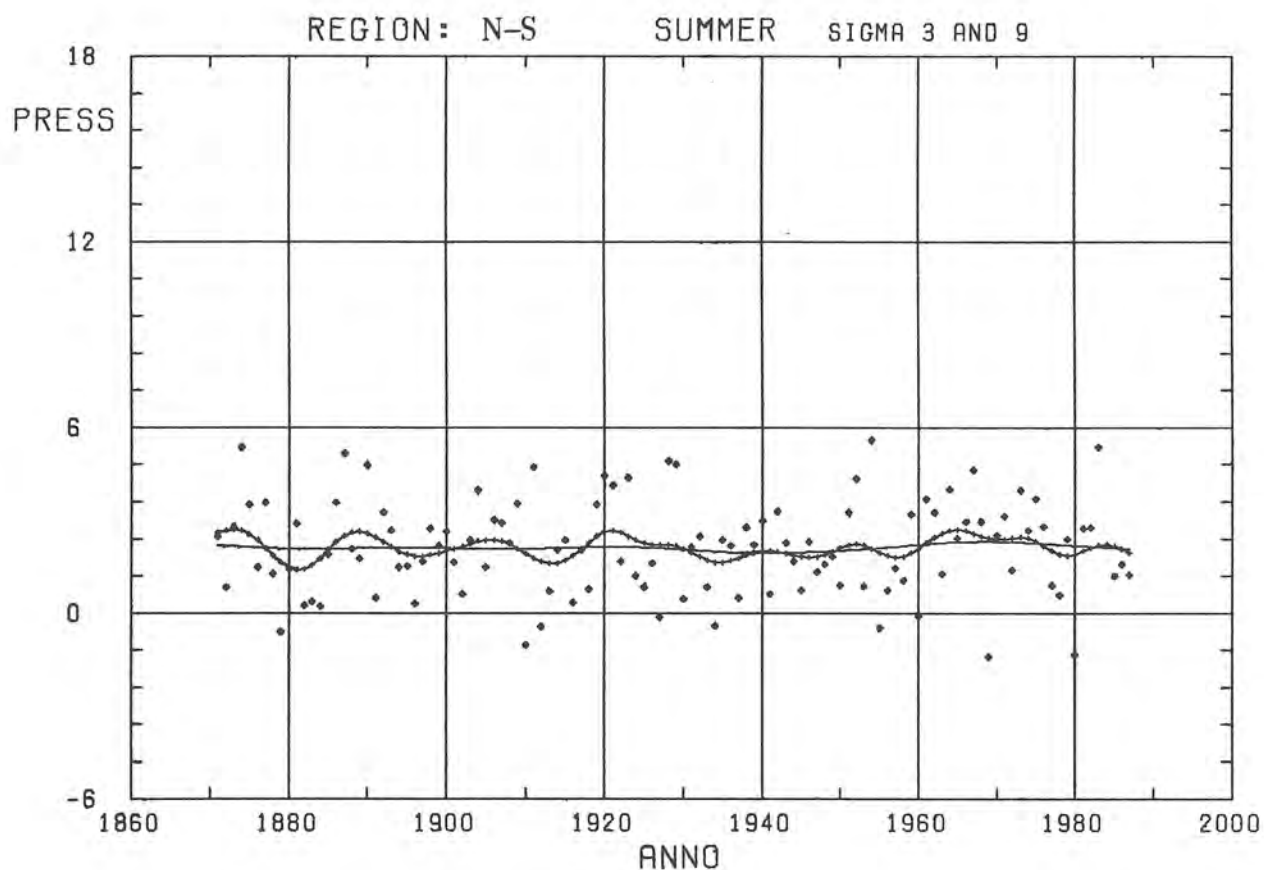


Figure 40. The summer pressure gradient during 1860–1987 given as a difference between region N and S along with two low-pass filtered curves.

**Pressure gradient (N-S), autumn (Sep, Oct, Nov) values.**

The long term trend of the pressure difference between the north and south region has changed from 4.8 hPa around 1900 and 1987 to the minimum value 3.9 hPa during the period 1940–1960. The low values are correlated with high temperatures. This would imply that strong zonal flows in autumn generally acts to reduce temperature, something that rather would be expected as a summer phenomenon.

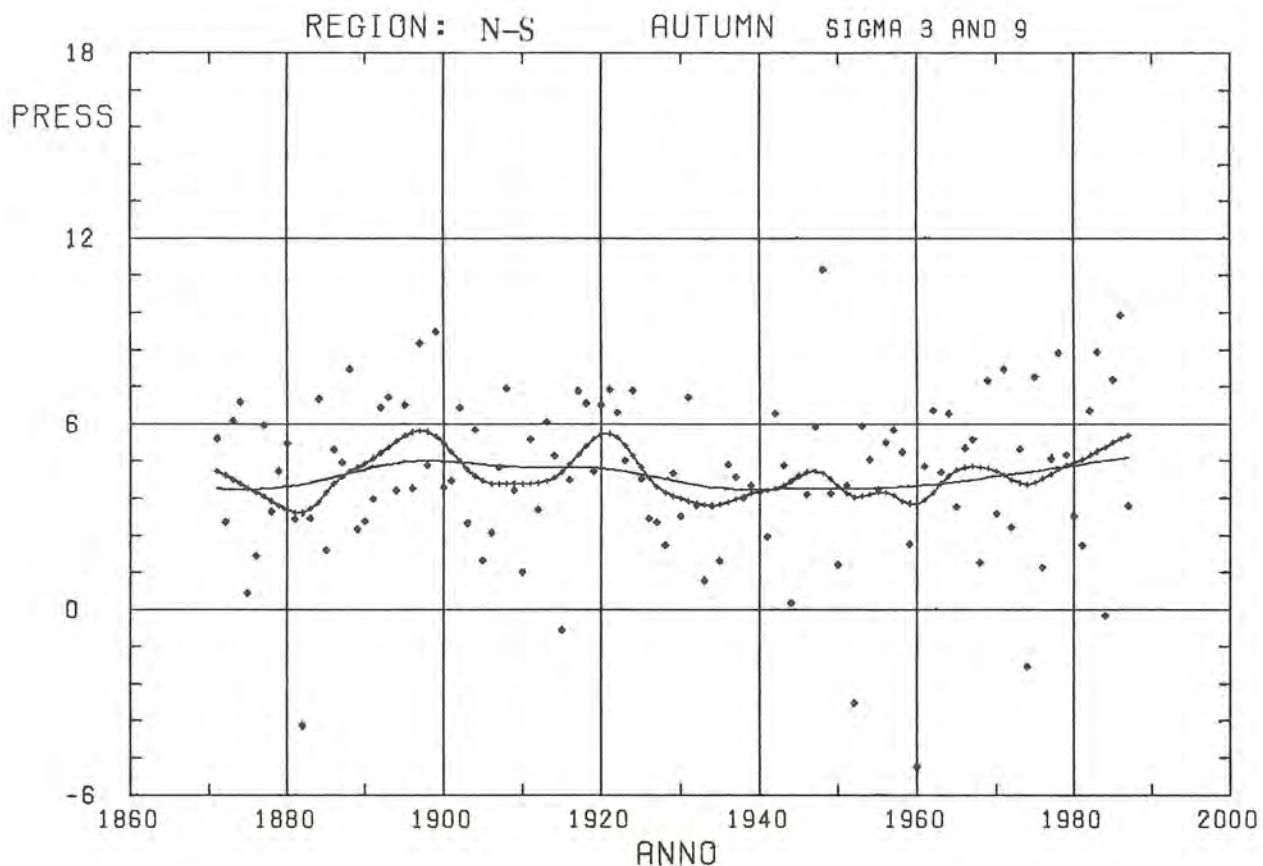


Figure 41. The autumn pressure gradient during 1860–1987 given as a difference between region N and S along with two low-pass filtered curves.

#### Temperature climate changes in Sweden and in the Northern Hemisphere.

Climate changes during the latest 100 years have been investigated by many authors. It is mainly and most often the temperature records that have been analysed. Climate changes can hit large areas of the globe in the same manner. But it can also happen that certain areas experience a warming at the same time as there is a cooling elsewhere. Such contrary trends are probably more frequent for precipitation.

During the last part of the 19th century the temperature recovered from the cold periods during the so called little ice age. The warming was global and corresponds to the temperature curves presented in this report. Three estimates of the Northern Hemisphere temperature changes is reproduced in figure 42.

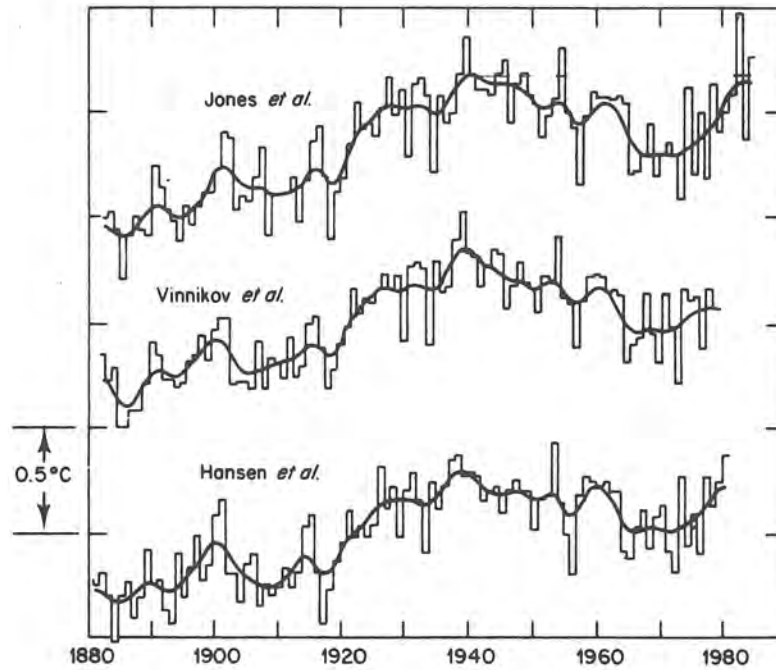


Figure 42. Three estimates of the temperature average over the Northern Hemisphere given in Bolin et al.(1986)

Of course the amplitude of the changes becomes smaller when means are calculated for a whole hemisphere then for small regions. Also temperature changes are larger in regions near the pole than near the equator since the variance is larger at higher latitudes.

It is often claimed that something happened with the climate around 1940 and at least the upward trend of the Northern Hemisphere temperature was broken around that time and for some decades a downward trend was observed. The physical reasons for this has not yet been explained. During the latest years the trend for the Northern Hemisphere has once again changed according to calculations made by Jones et al (1982 and 1986) and by Hansen et al (1981) while Vinnikov et al (1980) just reports a very slight warming. The latest news is that the 1980th continues unusually warm. From a Scandinavian point of view this is surprising. In Sweden the temperature shows a downward trend even during the latest years and the temperature is back to almost the same values as around 1900. However, the two winters 1987/88 and most probably also 1988/89, have been mild in Sweden, especially the southern part.

In figure 43 reproduced from Jones et al (1987) the temperature trends 1947–86 are analysed for the whole Northern Hemisphere. The values given represents the change in  $^{\circ}\text{C}$  over the whole period after the adaptation of the data to a straight line. The North Atlantic and adjacent continental regions have had a pronounced decrease as well as the North Pacific. The value  $-0.5^{\circ}\text{C}$  for the middle part of Sweden is in good agreement with the results presented in figures 7 and 8. They give  $-0.4^{\circ}$  for the south region and  $-0.8^{\circ}$  for the north when the most smoothed series are consulted.

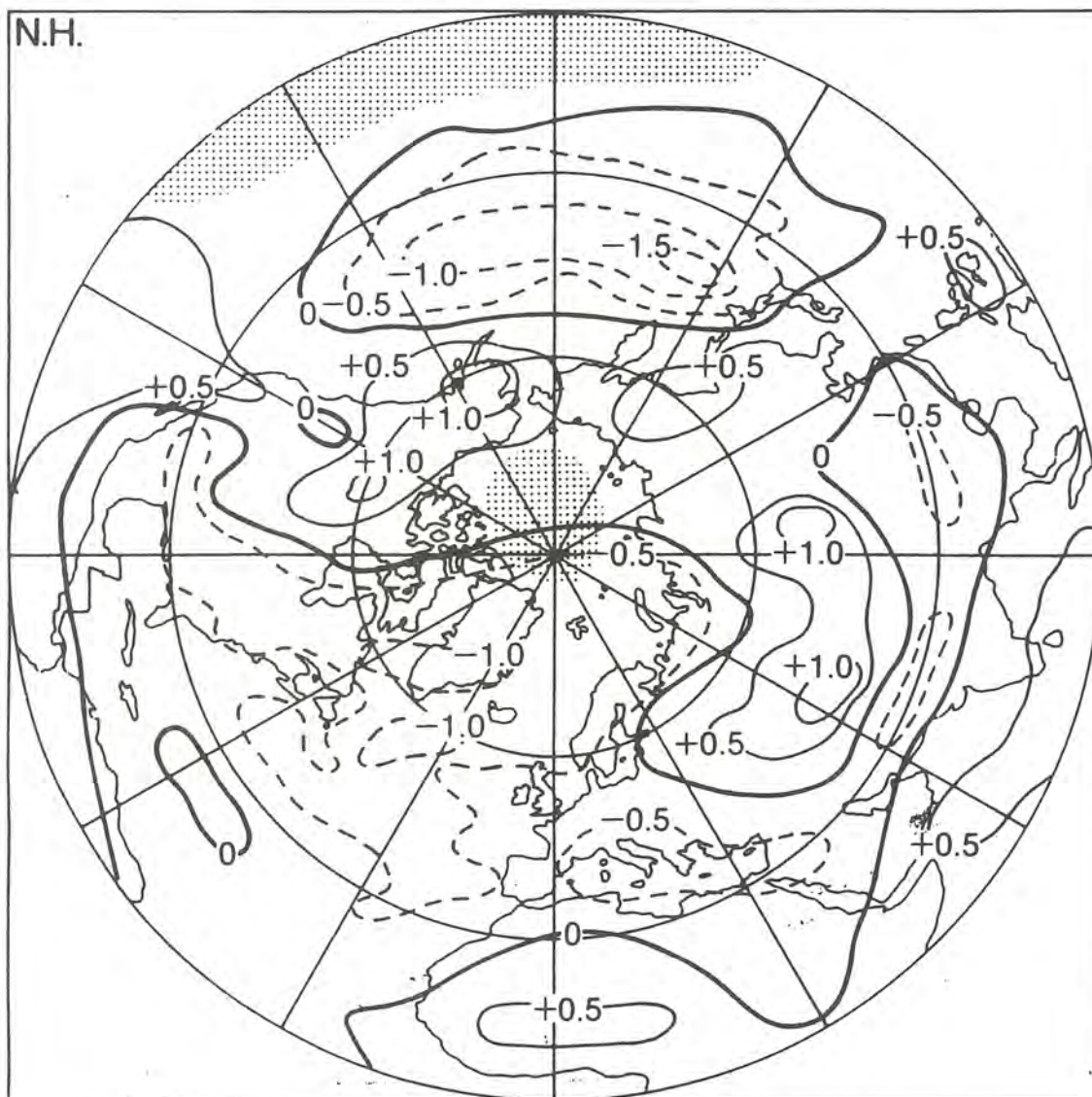


Figure 43. Spatial patterns in recent worldwide temperature trends (1947–86). From Jones et al (1987).

The physical causes of the temperature changes 1947–86 cannot yet be explained in a coherent way. However, one may suggest that it can depend upon random (?) anomalous general circulation patterns with high frequencies of cold troughs over the North Atlantic and Pacific regions and warm ridges over the western parts of North America and Russia. Another suggestion is that the cooling of the oceans is a result of a greater exchange between surface water and cold water masses in deeper layers.

### Summary.

The different behaviour of the Northern Hemisphere and the Swedish temperature in the latest decades is a surprising result that is illustrated by this report. The lowering of the Swedish temperature series seems to be coupled to the decrease of the zonal flow during winter, which also has been pointed out by Lamb (1972) for the British region. In fact a general and global increase of the temperature at high latitudes should give a decrease of the zonal flow as the need for poleward transport of warm air is reduced. Then such zonal flow favoured areas as Sweden will not experience a marked warming or it will even be cooler. We could also add that this balancing effect of the dynamics of the atmosphere acts in an opposite way to the feedback effect of an increase or decrease of the area of ice or snow covered land (the albedo effect). A decrease of the zonal flow over the northeastern Atlantic region will also affect the ocean currents which in turn affects the atmosphere.

For Sweden we have also noted a rather marked increase in precipitation around 1920 but it is probable that part of the increase of 5–10% can be attributed to better instrumentation and a greater awareness of a sheltered siting. After 1920 our curves indicate a quite stable behaviour of the precipitation climate for the year as a whole. Considering individual seasons many dry summers lately have given a minimum around 1970 (perhaps broken) while the other seasons have remained high. The lower values before 1920, especially during winter, are, however, in accordance with analyses of sunshine and cloud amounts made at SMHI by Weine Josefsson and Bengt Dahlström. Thus the cloud amount observations at Stensele showed a pronounced increase during this century.

We hope that further studies of a more complete data set will give a better understanding of the important temporal changes in the climate of Sweden and that the physical system as a whole will be more fully understood. This is definitely necessary when different scenarios for the future are set up and when the results and implications of climate simulations are discussed.

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### Appendix: Examples of individual station data.

Two complete records of temperature and precipitation from one station in the south and one in the north are given below. Please check the notes given at the ends! Interpolated data for individual months and years are naturally of less value than measured data, especially for precipitation. However, interpolated data are of substantial value to obtain comparable averages.

| Temperature |      |      |      | Station: 6403 |      |      |      | Kristianstad |      |      |     |      |      |
|-------------|------|------|------|---------------|------|------|------|--------------|------|------|-----|------|------|
| Anno        | Jan  | Feb  | Mar  | Apr           | May  | Jun  | Jul  | Aug          | Sep  | Oct  | Nov | Dec  | Year |
| 1860        | 1.1  | -3.4 | -0.3 | 5.0           | 10.0 | 14.6 | 17.0 | 15.0         | 12.2 | 6.7  | 2.6 | -2.6 | 6.5  |
| 1861        | -4.5 | 0.6  | 1.9  | 4.6           | 8.2  | 16.2 | 17.8 | 15.5         | 11.4 | 8.9  | 3.7 | 1.3  | 7.1  |
| 1862        | -3.0 | -3.3 | -0.7 | 5.5           | 11.1 | 15.3 | 14.2 | 14.8         | 12.2 | 9.5  | 3.9 | 0.2  | 6.5  |
| 1863        | -3.7 | -2.3 | 1.3  | 7.7           | 10.5 | 15.2 | 14.8 | 15.5         | 12.5 | 10.2 | 4.4 | 1.1  | 6.3  |
| 1864        | -0.1 | 0.1  | -1.4 | 4.4           | 7.7  | 12.4 | 16.4 | 12.7         | 12.6 | 6.6  | 1.1 | -1.3 | 6.3  |
| 1865        | -0.6 | -4.5 | -1.1 | 5.6           | 11.8 | 12.4 | 15.4 | 14.4         | 12.6 | 6.6  | 1.1 | -1.3 | 6.9  |
| 1866        | 3.8  | 1.8  | -1.0 | 6.4           | 9.1  | 17.0 | 15.8 | 15.4         | 14.2 | 7.1  | 2.2 | 0.5  | 7.7  |
| 1867        | -4.0 | 0.8  | -1.8 | 3.9           | 6.6  | 13.7 | 14.3 | 16.0         | 12.2 | 8.3  | 1.6 | -5.0 | 5.5  |
| 1868        | -2.0 | 1.8  | -2.2 | 3.0           | 3.3  | 13.5 | 18.7 | 19.3         | 12.8 | 8.4  | 1.8 | 7.7  | 8.3  |
| 1869        | 0.9  | 3.1  | 0.8  | 7.2           | 10.5 | 13.5 | 17.4 | 15.5         | 12.5 | 7.2  | 1.3 | -4.3 | 7.6  |
| 1870        | 0.2  | -4.9 | -0.7 | 6.0           | 10.9 | 14.3 | 17.2 | 15.8         | 11.9 | 6.4  | 4.6 | -4.8 | 6.4  |
| ave         | -0.7 | -0.5 | 0.3  | 5.5           | 9.9  | 14.7 | 16.5 | 15.4         | 12.4 | 7.8  | 3.2 | -0.2 | 7.0  |

| Anno | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov | Dec  | Year |
|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|
| 1871 | -3.0 | -4.1 | 2.6  | 3.8  | 8.8  | 12.0 | 16.6 | 15.9 | 10.3 | 5.9  | 1.0 | -2.0 | 5.7  |
| 1872 | -3.4 | 0.6  | 1.9  | 4.6  | 8.2  | 16.2 | 17.8 | 15.5 | 11.4 | 8.9  | 3.7 | 1.3  | 7.1  |
| 1873 | -3.3 | -0.4 | 1.8  | 5.5  | 11.1 | 15.3 | 14.2 | 15.6 | 12.2 | 9.5  | 3.9 | 0.2  | 6.5  |
| 1874 | -3.7 | -2.3 | 1.3  | 7.7  | 10.5 | 15.2 | 14.8 | 15.5 | 12.5 | 10.2 | 4.4 | 1.1  | 6.3  |
| 1875 | -2.9 | -3.3 | -1.6 | 4.0  | 11.2 | 15.6 | 17.6 | 17.9 | 12.6 | 6.3  | 1.7 | -2.0 | 6.4  |
| 1876 | -1.4 | -0.5 | -1.0 | 6.2  | 8.4  | 16.7 | 18.0 | 16.7 | 11.7 | 8.4  | 0.8 | -2.1 | 7.0  |
| 1877 | -0.2 | -1.0 | -1.1 | 7.7  | 10.5 | 14.5 | 18.0 | 16.7 | 11.7 | 8.4  | 0.8 | -2.1 | 7.0  |
| 1878 | -0.7 | -1.3 | -0.9 | 10.0 | 10.8 | 14.5 | 18.0 | 16.7 | 11.7 | 8.4  | 0.8 | -2.1 | 7.0  |
| 1879 | -2.1 | -4.0 | -0.5 | 1.4  | 10.2 | 15.1 | 17.2 | 17.6 | 14.1 | 4.6  | 2.9 | 0.6  | 7.3  |
| 1880 | -2.1 | 0.5  | 1.4  | 1.4  | 10.2 | 15.1 | 17.2 | 17.6 | 14.1 | 4.6  | 2.9 | 0.6  | 7.3  |
| 1881 | -5.2 | -3.1 | -1.8 | 2.1  | 10.9 | 14.9 | 16.6 | 14.3 | 11.5 | 6.0  | 5.5 | -2.6 | 6.2  |
| 1882 | -0.5 | -2.1 | 0.8  | 6.2  | 10.9 | 14.9 | 16.6 | 14.3 | 11.5 | 6.0  | 5.5 | -2.6 | 6.2  |
| 1883 | -0.5 | -2.1 | 0.8  | 6.2  | 10.9 | 14.9 | 16.6 | 14.3 | 11.5 | 6.0  | 5.5 | -2.6 | 6.2  |
| 1884 | -0.5 | -2.1 | 0.8  | 6.2  | 10.9 | 14.9 | 16.6 | 14.3 | 11.5 | 6.0  | 5.5 | -2.6 | 6.2  |
| 1885 | -0.5 | -2.1 | 0.8  | 6.2  | 10.9 | 14.9 | 16.6 | 14.3 | 11.5 | 6.0  | 5.5 | -2.6 | 6.2  |
| 1886 | -0.6 | -2.1 | 1.6  | 6.4  | 10.9 | 14.2 | 16.3 | 15.9 | 12.7 | 9.0  | 3.3 | -0.1 | 7.2  |
| 1887 | -0.6 | -2.1 | 1.6  | 6.4  | 10.9 | 14.2 | 16.3 | 15.9 | 12.7 | 9.0  | 3.3 | -0.1 | 7.2  |
| 1888 | -0.6 | -2.1 | 1.6  | 6.4  | 10.9 | 14.2 | 16.3 | 15.9 | 12.7 | 9.0  | 3.3 | -0.1 | 7.2  |
| 1889 | -0.6 | -2.1 | 1.6  | 6.4  | 10.9 | 14.2 | 16.3 | 15.9 | 12.7 | 9.0  | 3.3 | -0.1 | 7.2  |
| 1890 | -0.6 | -2.1 | 1.6  | 6.4  | 10.9 | 14.2 | 16.3 | 15.9 | 12.7 | 9.0  | 3.3 | -0.1 | 7.2  |
| 1891 | -3.4 | 0.3  | 0.8  | 4.8  | 10.6 | 14.5 | 17.7 | 14.8 | 13.6 | 10.0 | 2.6 | -2.5 | 7.4  |
| 1892 | -1.6 | -0.8 | 0.6  | 4.9  | 11.1 | 13.9 | 15.7 | 15.5 | 13.0 | 7.5  | 4.4 | -1.8 | 6.9  |
| 1893 | -6.5 | -3.8 | 2.4  | 7.7  | 9.7  | 15.1 | 17.5 | 16.4 | 11.4 | 9.1  | 2.8 | -2.7 | 6.9  |
| 1894 | -0.6 | 1.4  | 4.1  | 6.7  | 10.6 | 15.3 | 18.2 | 15.4 | 10.4 | 6.3  | 7.0 | 3.6  | 8.3  |
| 1895 | -2.0 | -5.8 | 0.6  | 6.2  | 12.6 | 15.3 | 16.4 | 16.3 | 13.4 | 7.0  | 4.7 | 0.3  | 7.1  |
| 1896 | -0.2 | 1.4  | 2.9  | 5.9  | 11.2 | 17.8 | 18.5 | 15.3 | 12.3 | 9.1  | 2.7 | 0.0  | 8.1  |
| 1897 | -2.6 | -1.7 | 2.1  | 5.7  | 11.8 | 16.8 | 16.8 | 17.7 | 12.2 | 7.1  | 4.0 | -2.3 | 7.7  |
| 1898 | -3.3 | 1.1  | 1.8  | 4.6  | 10.1 | 14.8 | 14.5 | 15.4 | 12.4 | 7.8  | 5.4 | -4.2 | 8.0  |
| 1899 | -1.2 | 1.4  | 1.3  | 4.9  | 10.7 | 15.6 | 18.0 | 15.5 | 12.1 | 8.2  | 7.2 | -0.1 | 8.0  |
| 1900 | -0.8 | -2.0 | 0.0  | 5.2  | 8.9  | 14.5 | 18.0 | 16.5 | 13.0 | 8.0  | 4.9 | 3.1  | 7.5  |
| ave  | -0.7 | -0.7 | 1.0  | 5.2  | 10.3 | 15.1 | 16.9 | 15.7 | 12.4 | 7.8  | 3.7 | 0.5  | 7.3  |

| Anno | Jan  | Feb  | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov | Dec  | Year |
|------|------|------|-----|-----|------|------|------|------|------|------|-----|------|------|
| 1901 | -2.5 | -4.0 | 0.4 | 6.0 | 11.1 | 14.9 | 19.8 | 17.5 | 13.3 | 10.5 | 2.4 | 0.3  | 7.5  |
| 1902 | -2.5 | -4.0 | 0.4 | 6.0 | 11.1 | 14.9 | 19.8 | 17.5 | 13.3 | 10.5 | 2.4 | 0.3  | 7.5  |
| 1903 | -2.5 | -4.0 | 0.4 | 6.0 | 11.1 | 14.9 | 19.8 | 17.5 | 13.3 | 10.5 | 2.4 | 0.3  | 7.5  |
| 1904 | -2.5 | -4.0 | 0.4 | 6.0 | 11.1 | 14.9 | 19.8 | 17.5 | 13.3 | 10.5 | 2.4 | 0.3  | 7.5  |
| 1905 | -2.5 | -4.0 | 0.4 | 6.0 | 11.1 | 14.9 | 19.8 | 17.5 | 13.3 | 10.5 | 2.4 | 0.3  | 7.5  |
| 1906 | -0.1 | -1.1 | 1.7 | 7.4 | 11.8 | 16.3 | 17.0 | 16.2 | 13.2 | 9.2  | 7.2 | -0.9 | 8.4  |
| 1907 | -0.1 | -1.1 | 1.7 | 7.4 | 11.8 | 16.3 | 17.0 | 16.2 | 13.2 | 9.2  | 7.2 | -0.9 | 8.4  |
| 1908 | -0.1 | -1.1 | 1.7 | 7.4 | 11.8 | 16.3 | 17.0 | 16.2 | 13.2 | 9.2  | 7.2 | -0.9 | 8.4  |
| 1909 | -0.1 | -1.1 | 1.7 | 7.4 | 11.8 | 16.3 | 17.0 | 16.2 | 13.2 | 9.2  | 7.2 | -0.9 | 8.4  |
| 1910 | -0.1 | -1.1 | 1.7 | 7.4 | 11.8 | 16.3 | 17.0 | 16.2 | 13.2 | 9.2  | 7.2 | -0.9 | 8.4  |
| 1911 | -1.2 | -0.9 | 2.7 | 6.2 | 12.5 | 14.4 | 16.5 | 17.9 | 13.8 | 7.8  | 5.5 | 3.3  | 8.6  |
| 1912 | -1.2 | -0.9 | 2.7 | 6.2 | 12.5 | 14.4 | 16.5 | 17.9 | 13.8 | 7.8  | 5.5 | 3.3  | 8.6  |
| 1913 | -1.2 | -0.9 | 2.7 | 6.2 | 12.5 | 14.4 | 16.5 | 17.9 | 13.8 | 7.8  | 5.5 | 3.3  | 8.6  |
| 1914 | -1.2 | -0.9 | 2.7 | 6.2 | 12.5 | 14.4 | 16.5 | 17.9 | 13.8 | 7.8  | 5.5 | 3.3  | 8.6  |
| 1915 | -1.2 | -0.9 | 2.7 | 6.2 | 12.5 | 14.4 | 16.5 | 17.9 | 13.8 | 7.8  | 5.5 | 3.3  | 8.6  |
| 1916 | -2.4 | 0.1  | 0.7 | 6.6 | 10.2 | 12.5 | 16.6 | 14.9 | 11.1 | 7.4  | 5.7 | 2.1  | 7.5  |
| 1917 | -2.4 | 0.1  | 0.7 | 6.6 | 10.2 | 12.5 | 16.6 | 14.9 | 11.1 | 7.4  | 5.7 | 2.1  | 7.5  |
| 1918 | -2.4 | 0.1  | 0.7 | 6.6 | 10.2 | 12.5 | 16.6 | 14.9 | 11.1 | 7.4  | 5.7 | 2.1  | 7.5  |
| 1919 | -2.4 | 0.1  | 0.7 | 6.6 | 10.2 | 12.5 | 16.6 | 14.9 | 11.1 | 7.4  | 5.7 | 2.1  | 7.5  |
| 1920 | -2.4 | 0.1  | 0.7 | 6.6 | 10.2 | 12.5 | 16.6 | 14.9 | 11.1 | 7.4  | 5.7 | 2.1  | 7.5  |
| 1921 | -2.2 | 1.1  | 5.1 | 8.1 | 12.8 | 14.6 | 17.1 | 15.2 | 11.8 | 9.1  | 0.5 | 1.1  | 8.2  |
| 1922 | -2.2 | 1.1  | 5.1 | 8.1 | 12.8 | 14.6 | 17.1 | 15.2 | 11.8 | 9.1  | 0.5 | 1.1  | 8.2  |
| 1923 | -2.2 | 1.1  | 5.1 | 8.1 | 12.8 | 14.6 | 17.1 | 15.2 | 11.8 | 9.1  | 0.5 | 1.1  | 8.2  |
| 1924 | -2.2 | 1.1  | 5.1 | 8.1 | 12.8 | 14.6 | 17.1 | 15.2 | 11.8 | 9.1  | 0.5 | 1.1  | 8.2  |
| 1925 | -2.2 | 1.1  | 5.1 | 8.1 | 12.8 | 14.6 | 17.1 | 15.2 | 11.8 | 9.1  | 0.5 | 1.1  | 8.2  |
| 1926 | 0.1  | -0.1 | 2.4 | 6.4 | 10.3 | 14.9 | 18.3 | 16.1 | 12.4 | 5.5  | 5.5 | 0.4  | 7.7  |
| 1927 | 0.1  | -0.1 | 2.4 | 6.4 | 10.3 | 14.9 | 18.3 | 16.1 | 12.4 | 5.5  | 5.5 | 0.4  | 7.7  |
| 1928 | 0.1  | -0.1 | 2.4 | 6.4 | 10.3 | 14.9 | 18.3 | 16.1 | 12.4 | 5.5  | 5.5 | 0.4  | 7.7  |
| 1929 | 0.1  | -0.1 | 2.4 | 6.4 | 10.3 | 14.9 | 18.3 | 16.1 | 12.4 | 5.5  | 5.5 | 0.4  | 7.7  |
| 1930 | 0.1  | -0.1 | 2.4 | 6.4 | 10.3 | 14.9 | 18.3 | 16.1 | 12.4 | 5.5  | 5.5 | 0.4  | 7.7  |
| ave  | 0.0  | -0.3 | 1.9 | 5.5 | 10.6 | 14.4 | 17.0 | 15.6 | 12.3 | 8.1  | 3.7 | 1.1  | 7.5  |

| Temperature |      |      |      | Station: 6403 |      |      | Kristianstad |      |      |      |     |      |      |
|-------------|------|------|------|---------------|------|------|--------------|------|------|------|-----|------|------|
| Anno        | Jan  | Feb  | Mar  | Apr           | May  | Jun  | Jul          | Aug  | Sep  | Oct  | Nov | Dec  | Year |
| 19331       | -1.0 | -1.1 | -3.0 | 3.5           | 12.4 | 13.3 | 15.9         | 15.3 | 10.0 | 7.2  | 5.4 | 0.8  | 6.6  |
| 19332       | 2.7  | -0.5 | -0.5 | 3.8           | 11.9 | 14.0 | 18.6         | 17.7 | 12.9 | 7.5  | 4.5 | 2.9  | 8.1  |
| 19333       | -0.8 | -0.4 | -0.3 | 4.4           | 10.8 | 15.0 | 18.3         | 16.5 | 12.7 | 9.5  | 3.8 | -0.7 | 7.9  |
| 19334       | 1.3  | 2.9  | 3.3  | 6.9           | 12.2 | 15.3 | 18.1         | 16.4 | 14.9 | 10.0 | 5.4 | 4.9  | 8.3  |
| 19335       | -0.7 | 1.1  | 2.1  | 6.6           | 9.9  | 16.0 | 17.3         | 16.4 | 12.8 | 8.6  | 5.9 | 2.0  | 8.2  |
| 19336       | -2.3 | -1.5 | 1.9  | 5.1           | 11.4 | 16.7 | 17.8         | 16.2 | 11.4 | 5.8  | 5.3 | 3.3  | 8.0  |
| 19337       | -0.4 | -0.5 | 0.5  | 6.4           | 12.6 | 14.9 | 18.2         | 18.3 | 13.5 | 9.7  | 2.8 | -0.8 | 8.0  |
| 19338       | 1.1  | -0.6 | 0.6  | 6.0           | 10.6 | 14.6 | 17.1         | 18.2 | 13.8 | 10.0 | 7.3 | 1.0  | 8.1  |
| 19339       | -1.5 | -1.7 | -1.7 | 6.6           | 10.7 | 16.7 | 17.8         | 18.6 | 13.0 | 5.8  | 4.7 | -0.1 | 8.4  |
| 19340       | -4.9 | -7.9 | -1.7 | 3.9           | 11.6 | 17.2 | 17.5         | 14.6 | 11.0 | 6.4  | 5.0 | -0.9 | 6.0  |
| 19411       | -8.1 | -3.0 | 0.5  | 3.2           | 8.8  | 15.3 | 19.2         | 15.3 | 12.1 | 6.9  | 2.4 | 1.2  | 6.2  |
| 19412       | -8.8 | -6.7 | -0.7 | 4.6           | 9.8  | 13.1 | 15.8         | 16.6 | 13.8 | 9.2  | 3.6 | 2.4  | 5.6  |
| 19413       | -2.3 | -0.8 | 0.8  | 7.3           | 12.0 | 15.3 | 17.3         | 16.0 | 11.1 | 10.0 | 3.8 | 1.1  | 8.1  |
| 19414       | -2.0 | 0.6  | 4.9  | 5.1           | 10.1 | 14.8 | 18.5         | 18.5 | 12.5 | 9.1  | 4.3 | 2.1  | 8.1  |
| 19415       | -2.0 | 0.6  | 4.9  | 7.3           | 10.6 | 13.8 | 17.7         | 17.2 | 12.5 | 8.9  | 5.5 | 1.4  | 8.6  |
| 19461       | -0.4 | -0.5 | 1.4  | 8.0           | 11.3 | 13.9 | 18.1         | 15.4 | 13.3 | 6.4  | 4.4 | 0.2  | 7.6  |
| 19462       | -2.9 | -0.7 | -2.3 | 6.7           | 12.0 | 16.8 | 17.6         | 18.3 | 15.2 | 8.1  | 3.6 | 0.6  | 7.2  |
| 19463       | -0.6 | -0.8 | -2.0 | 7.7           | 11.8 | 15.1 | 16.7         | 16.4 | 13.4 | 7.9  | 3.7 | 2.9  | 8.2  |
| 19464       | -1.5 | -1.5 | 3.3  | 7.5           | 12.3 | 14.5 | 17.6         | 15.3 | 15.5 | 9.9  | 5.7 | 3.7  | 8.9  |
| 19465       | -1.4 | 1.5  | 3.9  | 6.8           | 12.3 | 16.2 | 16.4         | 17.0 | 13.0 | 8.4  | 4.4 | 0.2  | 8.3  |
| 19511       | 0.5  | 0.7  | -0.1 | 6.5           | 9.7  | 15.3 | 16.1         | 16.9 | 13.7 | 7.8  | 6.6 | 4.2  | 8.2  |
| 19512       | -0.4 | -0.5 | -0.2 | 7.9           | 10.6 | 13.6 | 16.2         | 16.0 | 10.5 | 6.7  | 1.9 | 0.0  | 7.0  |
| 19513       | -0.5 | -0.9 | -3.9 | 7.5           | 11.2 | 17.6 | 17.6         | 16.2 | 12.7 | 10.6 | 6.2 | 2.9  | 8.8  |
| 19514       | -2.1 | -3.4 | -1.2 | 4.9           | 12.1 | 15.5 | 15.3         | 15.2 | 13.1 | 8.8  | 3.8 | 3.3  | 7.3  |
| 19515       | -1.4 | -4.7 | -2.0 | 4.4           | 9.1  | 13.8 | 19.3         | 18.5 | 14.2 | 8.4  | 4.2 | 0.6  | 7.0  |
| 19561       | -0.7 | -7.0 | 0.5  | 3.4           | 11.2 | 14.6 | 16.8         | 13.9 | 11.9 | 7.8  | 0.9 | 3.0  | 6.4  |
| 19562       | -1.8 | -2.2 | -2.0 | 5.4           | 9.7  | 15.7 | 17.5         | 16.2 | 10.7 | 9.5  | 4.4 | 0.7  | 8.0  |
| 19563       | -2.0 | -2.5 | -3.6 | 4.1           | 10.7 | 14.7 | 17.3         | 15.5 | 13.7 | 9.7  | 5.4 | 1.0  | 7.1  |
| 19564       | -0.7 | -0.7 | 1.5  | 6.9           | 11.5 | 15.6 | 19.0         | 17.7 | 13.0 | 8.1  | 5.4 | 2.5  | 8.6  |
| 19565       | -1.7 | -2.5 | 1.5  | 5.2           | 11.3 | 16.2 | 19.0         | 16.1 | 12.0 | 7.8  | 5.4 | 2.6  | 7.5  |
| ave         | -0.9 | -0.8 | 1.2  | 5.9           | 11.1 | 15.2 | 17.4         | 16.5 | 12.9 | 8.4  | 4.5 | 1.6  | 7.8  |

| Anno | Jan  | Feb  | Mar  | Apr | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov | Dec  | Year |  |
|------|------|------|------|-----|------|------|------|------|------|------|-----|------|------|--|
| 1961 | -0.1 | 2.8  | 5.5  | 7.5 | 10.8 | 16.2 | 15.7 | 14.9 | 14.0 | 11.5 | 4.1 | -1.1 | 8.5  |  |
| 1962 | 1.7  | 0.5  | -0.9 | 6.6 | 9.0  | 13.8 | 14.9 | 14.1 | 12.0 | 8.7  | 4.0 | -2.7 | 6.9  |  |
| 1963 | -7.7 | -4.6 | -0.5 | 5.2 | 11.8 | 15.4 | 17.0 | 16.2 | 13.1 | 8.7  | 6.3 | -1.4 | 6.6  |  |
| 1964 | 0.2  | -1.4 | -0.5 | 6.9 | 12.1 | 15.5 | 16.0 | 15.5 | 12.1 | 7.7  | 4.8 | 0.8  | 7.5  |  |
| 1965 | 0.4  | -2.1 | 0.4  | 5.6 | 8.5  | 15.0 | 13.8 | 14.7 | 13.6 | 8.4  | 0.7 | -0.4 | 6.6  |  |
| 1966 | -3.6 | -2.9 | 2.2  | 2.5 | 11.1 | 16.3 | 16.4 | 15.1 | 12.4 | 8.9  | 3.5 | 0.6  | 6.9  |  |
| 1967 | -1.1 | -1.3 | 5.1  | 5.6 | 11.0 | 14.0 | 17.1 | 16.3 | 13.9 | 10.7 | 4.7 | -0.3 | 8.2  |  |
| 1968 | -2.3 | -1.8 | 3.4  | 7.1 | 9.4  | 16.2 | 15.6 | 17.1 | 13.6 | 8.6  | 4.9 | -0.6 | 7.6  |  |
| 1969 | -0.8 | -3.8 | -0.7 | 5.1 | 10.3 | 15.9 | 17.7 | 17.4 | 13.8 | 9.7  | 4.0 | -3.4 | 7.2  |  |
| 1970 | -3.9 | -5.1 | -0.1 | 3.9 | 10.8 | 16.8 | 15.5 | 16.2 | 11.8 | 8.2  | 3.5 | 1.4  | 6.6  |  |
| 1971 | -0.7 | 1.1  | 0.0  | 5.7 | 11.5 | 13.7 | 17.4 | 16.4 | 11.7 | 9.1  | 3.4 | 4.2  | 7.8  |  |
| 1972 | -1.8 | 0.3  | 1.6  | 6.1 | 10.7 | 14.9 | 18.4 | 16.1 | 10.7 | 7.5  | 5.3 | 3.7  | 7.8  |  |
| 1973 | 0.4  | 2.1  | 4.5  | 5.1 | 11.1 | 16.0 | 18.3 | 16.5 | 12.9 | 5.9  | 1.9 | 0.5  | 7.9  |  |
| 1974 | 2.4  | 2.5  | 2.9  | 7.0 | 10.3 | 14.5 | 15.5 | 16.3 | 13.3 | 6.2  | 5.0 | 4.2  | 8.4  |  |
| 1975 | 4.5  | 1.1  | 2.4  | 1.1 | 11.1 | 14.6 | 18.2 | 19.1 | 14.5 | 8.7  | 4.1 | 3.4  | 8.9  |  |
| 1976 | -1.4 | -0.7 | -0.8 | 5.2 | 10.7 | 15.6 | 17.8 | 16.8 | 11.8 | 8.0  | 4.5 | -1.2 | 7.2  |  |
| 1977 | -0.3 | -0.9 | -2.8 | 4.5 | 11.4 | 16.0 | 16.2 | 15.9 | 11.2 | 9.5  | 4.9 | -2.4 | 7.8  |  |
| 1978 | -0.7 | -2.8 | 2.1  | 4.8 | 11.1 | 15.3 | 15.3 | 15.9 | 11.2 | 8.7  | 7.2 | -1.8 | 7.3  |  |
| 1979 | -3.9 | -2.7 | -0.9 | 4.5 | 11.3 | 15.9 | 15.0 | 15.6 | 12.4 | 6.5  | 4.5 | 1.4  | 6.9  |  |
| 1980 | -2.5 | -2.3 | -0.4 | 5.8 | 9.4  | 15.9 | 16.7 | 15.7 | 13.0 | 7.4  | 2.7 | 1.6  | 6.9  |  |
| 1981 | -1.7 | 0.3  | 2.3  | 5.5 | 12.2 | 14.3 | 16.2 | 15.7 | 13.1 | 7.3  | 4.0 | -5.2 | 7.0  |  |
| 1982 | -4.7 | -1.8 | 3.0  | 6.3 | 11.0 | 13.8 | 18.2 | 17.2 | 13.0 | 9.7  | 6.1 | -2.2 | 7.8  |  |
| 1983 | 3.8  | -3.3 | 3.1  | 5.9 | 10.6 | 14.7 | 18.4 | 17.4 | 13.3 | 8.7  | 3.5 | 0.3  | 8.1  |  |
| 1984 | -0.6 | -0.3 | 0.7  | 6.6 | 10.7 | 13.5 | 15.6 | 16.2 | 11.2 | 10.7 | 5.7 | 1.9  | 7.7  |  |
| 1985 | -6.1 | -6.5 | 0.2  | 3.9 | 10.7 | 14.1 | 15.8 | 15.1 | 11.4 | 9.9  | 1.5 | 1.8  | 6.0  |  |
| 1986 | -2.1 | -6.5 | 0.6  | 4.2 | 11.0 | 14.8 | 16.8 | 14.5 | 10.1 | 8.6  | 6.9 | 1.5  | 6.7  |  |
| 1987 | -7.2 | -2.0 | -2.5 | 5.7 | 11.9 | 12.0 | 14.9 | 14.3 | 11.6 | 8.8  | 4.8 | 2.1  | 8.0  |  |
| 1988 | 2.8  | 2.0  | 0.4  | 5.3 | 11.3 | 16.8 | 17.2 | 15.7 | 13.3 | 7.4  | 1.8 | 2.6  | 8.0  |  |
| ave  | -1.3 | -1.3 | 1.4  | 5.5 | 10.7 | 15.0 | 16.5 | 16.0 | 12.5 | 8.6  | 4.2 | 0.7  | 7.4  |  |

| Statistics for the whole period. |      |      |      |      |      |      |      |      |      |      |      |      | Station: 6403             |  | Kristianstad |  |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------|--|--------------|--|
|                                  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  | Year                      |  |              |  |
| num                              | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129  | 129                       |  |              |  |
| ave                              | -0.7 | -0.5 | -0.3 | -0.1 | 1.0  | 14.9 | 16.9 | 15.9 | 12.5 | 8.1  | 4.0  | 0.9  | 7.4                       |  |              |  |
| std                              | 1.7  | 1.6  | 1.7  | 1.4  | 1.5  | 1.3  | 1.9  | 1.7  | 1.3  | 1.4  | 1.7  | 1.1  | 1.5                       |  |              |  |
| min                              | -8.8 | -7.9 | -6.7 | -4.1 | -1.6 | 1.1  | 1.8  | 1.3  | 1.3  | 1.8  | -0.1 | -2.1 | 0.0                       |  |              |  |
| max                              | 4.5  | 4.6  | 6.6  | 8.4  | 13.0 | 19.0 | 20.0 | 19.5 | 15.5 | 11.8 | 7.3  | 4.9  | 9.5                       |  |              |  |
| Interpolated                     |      |      |      |      |      |      |      |      |      |      |      |      | Jan 1860 - Dec 1878       |  |              |  |
| Corrected                        |      |      |      |      |      |      |      |      |      |      |      |      | Jan 1879 - Dec 1900 +0.30 |  |              |  |

| Temperature |       |       |       |      | Station:15772 |      |      | Stenselse |     |      |       |       |      |
|-------------|-------|-------|-------|------|---------------|------|------|-----------|-----|------|-------|-------|------|
| Anno        | Jan   | Feb   | Mar   | Apr  | May           | Jun  | Jul  | Aug       | Sep | Oct  | Nov   | Dec   | Year |
| 1860        | -14.5 | -15.9 | -6.1  | -1.4 | 4.8           | 12.9 | 15.8 | 12.2      | 6.4 | 0.2  | -5.4  | -16.0 | -0.6 |
| 1861        | -15.8 | -10.4 | -6.3  | -1.3 | 2.8           | 14.7 | 15.5 | 11.5      | 5.3 | 3.1  | -9.9  | -5.7  | 0.3  |
| 1862        | -17.4 | -14.2 | -11.3 | -0.1 | 8.4           | 11.1 | 10.8 | 9.7       | 6.5 | 0.5  | -2.3  | -10.8 | -0.8 |
| 1863        | -7.9  | -4.6  | -6.8  | -0.6 | 3.8           | 14.3 | 12.0 | 10.3      | 7.7 | 1.6  | -2.4  | -11.7 | 1.1  |
| 1864        | -10.1 | -14.2 | -9.4  | -0.8 | 3.9           | 10.2 | 14.3 | 8.7       | 5.8 | -5.7 | -12.6 | -12.0 | -1.9 |
| 1865        | -11.8 | -17.1 | -10.0 | 0.5  | 5.9           | 7.9  | 14.4 | 9.2       | 6.7 | -4.5 | -5.5  | -5.9  | -0.8 |
| 1866        | -10.5 | -14.1 | -12.7 | -1.6 | 3.4           | 12.0 | 12.4 | 12.1      | 8.1 | 1.1  | -10.1 | -15.7 | -1.3 |
| 1867        | -22.4 | -9.3  | -8.9  | -4.7 | 0.3           | 8.2  | 13.3 | 12.0      | 7.1 | 1.2  | -8.0  | -17.3 | -2.4 |
| 1868        | -10.4 | -12.0 | -5.3  | -1.1 | 5.7           | 10.9 | 13.6 | 13.9      | 5.0 | -0.1 | -7.1  | -11.8 | 0.1  |
| 1869        | -11.0 | -8.2  | -9.1  | -0.2 | 2.9           | 10.4 | 13.0 | 10.0      | 6.5 | -0.1 | -7.0  | -10.5 | -0.3 |
| 1870        | -12.5 | -13.3 | -8.6  | 1.6  | 4.4           | 13.1 | 14.1 | 12.2      | 7.8 | -1.7 | -8.1  | -15.6 | -0.5 |
| ave         | -13.1 | -12.1 | -8.6  | -0.9 | 4.1           | 11.4 | 13.6 | 11.1      | 6.6 | -0.4 | -7.3  | -12.1 | -0.6 |

| Anno | Jan   | Feb   | Mar   | Apr  | May | Jun  | Jul  | Aug  | Sep | Oct  | Nov   | Dec   | Year |
|------|-------|-------|-------|------|-----|------|------|------|-----|------|-------|-------|------|
| 1871 | -17.6 | -24.7 | -1.3  | -4.5 | 4.1 | 9.9  | 15.0 | 11.2 | 4.4 | 0.5  | -14.1 | -13.9 | -2.6 |
| 1872 | -18.6 | -26.7 | -6.0  | -1.0 | 6.0 | 14.9 | 15.9 | 10.0 | 3.5 | 2.3  | -10.0 | -15.3 | 1.0  |
| 1873 | -10.0 | -15.9 | -3.7  | -0.7 | 3.0 | 13.1 | 14.5 | 10.9 | 6.8 | 2.3  | -11.8 | -16.0 | 0.5  |
| 1874 | -22.6 | -13.3 | -7.3  | -2.7 | 3.2 | 11.3 | 14.6 | 10.7 | 5.4 | -2.5 | -11.6 | -16.5 | -2.0 |
| 1875 | -11.3 | -16.8 | -8.6  | -1.1 | 3.5 | 15.9 | 14.1 | 12.3 | 6.7 | 0.0  | -9.5  | -16.5 | -1.1 |
| 1876 | -11.3 | -15.8 | -12.3 | -3.4 | 3.3 | 15.9 | 14.3 | 12.3 | 4.3 | -1.3 | -3.3  | -16.9 | -1.2 |
| 1877 | -10.8 | -16.0 | -7.0  | -0.9 | 5.5 | 11.6 | 11.9 | 12.2 | 7.8 | -2.3 | -7.7  | -17.6 | -0.3 |
| 1878 | -12.3 | -15.6 | -8.1  | -1.0 | 4.0 | 10.8 | 15.0 | 14.1 | 7.8 | -0.8 | -8.6  | -19.9 | -0.4 |
| 1879 | -6.3  | -7.0  | -4.2  | -0.3 | 4.8 | 10.3 | 12.5 | 13.3 | 7.9 | -5.8 | -9.9  | -17.7 | -0.2 |
| 1880 | -14.8 | -20.9 | -11.6 | -4.2 | 3.8 | 10.1 | 12.0 | 11.0 | 6.2 | -0.5 | -4.3  | -8.6  | -1.8 |
| 1881 | -6.3  | -7.6  | -5.7  | -1.7 | 6.1 | 11.7 | 13.7 | 13.5 | 8.4 | 1.1  | -11.5 | -14.4 | 0.7  |
| 1882 | -13.5 | -10.2 | -7.5  | -2.2 | 6.6 | 13.8 | 14.7 | 11.3 | 5.9 | -1.1 | -7.5  | -17.7 | 1.3  |
| 1883 | -9.7  | -9.3  | -4.4  | -1.7 | 2.8 | 8.5  | 14.1 | 12.5 | 8.0 | 3.9  | -6.7  | -12.8 | 0.3  |
| 1884 | -14.9 | -7.3  | -7.1  | -1.6 | 2.8 | 8.4  | 13.0 | 10.1 | 4.5 | -3.3 | -7.1  | -11.2 | -1.1 |
| 1885 | -15.9 | -11.1 | -5.9  | 0.4  | 4.5 | 11.9 | 12.3 | 11.7 | 6.3 | 2.2  | -1.4  | -14.0 | 0.1  |
| 1886 | -7.6  | -4.7  | -1.5  | -1.4 | 5.6 | 10.4 | 12.4 | 10.2 | 7.3 | -1.5 | -8.2  | -14.2 | 0.1  |
| 1887 | -10.4 | -16.8 | -11.5 | -5.0 | 3.7 | 10.9 | 11.9 | 10.2 | 5.3 | -3.1 | -14.0 | -15.2 | -2.3 |
| 1888 | -8.4  | -7.2  | -4.3  | -1.4 | 5.2 | 14.4 | 11.7 | 9.9  | 6.6 | -1.2 | -6.5  | -18.4 | 0.5  |
| 1889 | -7.9  | -14.3 | -4.3  | -0.7 | 7.5 | 11.5 | 11.4 | 10.6 | 6.8 | -1.9 | -6.5  | -12.3 | 0.6  |
| 1890 | -12.2 | -3.0  | -8.3  | -1.6 | 4.8 | 9.1  | 14.9 | 9.2  | 5.7 | 2.5  | -4.3  | -8.5  | 0.7  |
| 1891 | -19.8 | -17.1 | -6.2  | -2.7 | 3.3 | 10.0 | 12.5 | 9.7  | 5.9 | -0.2 | -3.7  | -13.4 | -1.9 |
| 1892 | -19.5 | -17.1 | -6.2  | -2.7 | 4.4 | 10.3 | 14.1 | 10.2 | 3.1 | -0.2 | -6.7  | -7.8  | -1.9 |
| 1893 | -13.5 | -11.3 | -3.1  | -2.7 | 6.4 | 15.3 | 15.1 | 11.4 | 4.3 | -2.1 | -3.8  | -6.7  | 1.3  |
| 1894 | -18.2 | -14.8 | -11.0 | -0.4 | 9.0 | 13.3 | 12.7 | 10.7 | 6.1 | -0.1 | -3.8  | -11.4 | -0.7 |
| 1895 | -7.7  | -6.9  | -5.0  | -0.6 | 4.4 | 11.6 | 16.0 | 10.4 | 6.8 | -1.3 | -6.1  | -12.2 | 0.8  |
| 1896 | -13.3 | -13.4 | -11.6 | -1.1 | 7.9 | 11.3 | 14.2 | 11.2 | 7.0 | -2.5 | -14.0 | -18.8 | -0.4 |
| 1897 | -6.5  | -11.9 | -11.6 | -1.1 | 5.3 | 12.1 | 12.2 | 10.9 | 6.5 | -0.1 | -5.8  | -13.8 | -0.2 |
| 1898 | -15.5 | -12.1 | -13.0 | -2.2 | 1.9 | 10.5 | 15.7 | 8.9  | 5.7 | -0.7 | -4.5  | -14.2 | -1.6 |
| 1899 | -15.3 | -19.9 | -8.3  | 0.0  | 4.2 | 12.0 | 10.5 | 10.9 | 5.0 | 1.1  | -4.1  | -13.3 | -1.6 |
| ave  | -12.5 | -12.1 | -7.9  | -1.2 | 5.0 | 11.4 | 13.6 | 11.0 | 6.1 | 0.0  | -6.3  | -11.9 | -0.4 |

| Anno | Jan   | Feb   | Mar   | Apr  | May | Jun  | Jul  | Aug  | Sep | Oct  | Nov   | Dec   | Year |
|------|-------|-------|-------|------|-----|------|------|------|-----|------|-------|-------|------|
| 1901 | -9.3  | -17.4 | -8.2  | 0.6  | 6.2 | 13.0 | 17.7 | 12.8 | 7.7 | -4.8 | -6.1  | -15.1 | 0.6  |
| 1902 | -12.9 | -13.5 | -11.1 | -2.1 | 3.3 | 9.1  | 10.6 | 19.9 | 5.3 | -1.0 | -4.6  | -10.7 | -1.0 |
| 1903 | -13.3 | -16.4 | -12.8 | -1.8 | 4.4 | 9.6  | 11.7 | 10.9 | 6.8 | -2.2 | -5.4  | -16.5 | -0.9 |
| 1904 | -6.9  | -9.4  | -5.0  | -0.7 | 5.4 | 12.7 | 13.2 | 10.5 | 6.8 | -1.5 | -9.2  | -17.3 | -1.1 |
| 1905 | -16.1 | -9.4  | -5.9  | -2.5 | 5.4 | 12.7 | 13.2 | 10.5 | 6.0 | -3.9 | -5.2  | -17.3 | -0.2 |
| 1906 | -10.5 | -9.4  | -9.1  | 1.6  | 5.7 | 11.7 | 14.2 | 10.1 | 6.6 | 1.4  | -3.3  | -10.5 | 0.7  |
| 1907 | -11.7 | -18.2 | -13.4 | -0.3 | 3.3 | 11.1 | 14.2 | 12.3 | 5.8 | 3.3  | -12.3 | -17.4 | 0.7  |
| 1908 | -9.2  | -19.4 | -13.3 | -0.4 | 3.3 | 12.0 | 14.2 | 10.7 | 6.3 | 3.3  | -10.7 | -17.1 | -0.5 |
| 1909 | -11.2 | -15.9 | -10.3 | -0.3 | 3.3 | 11.1 | 13.5 | 11.8 | 6.9 | 0.6  | -7.1  | -11.6 | -0.9 |
| 1910 | -11.2 | -15.1 | -13.6 | -0.3 | 3.3 | 11.1 | 13.5 | 11.8 | 6.9 | 0.6  | -7.1  | -11.6 | -0.9 |
| 1911 | -10.6 | -11.5 | -6.9  | -0.9 | 7.5 | 10.4 | 12.7 | 13.5 | 7.5 | -0.6 | -7.6  | -5.3  | 0.7  |
| 1912 | -14.7 | -14.0 | -4.1  | -1.2 | 5.5 | 12.7 | 15.4 | 12.5 | 6.1 | -0.8 | -6.2  | -8.9  | 0.0  |
| 1913 | -16.1 | -9.5  | -5.4  | -0.5 | 8.8 | 12.2 | 14.4 | 11.4 | 7.0 | -0.5 | -3.2  | -14.3 | 0.3  |
| 1914 | -10.6 | -9.5  | -7.9  | -1.2 | 4.4 | 12.2 | 16.5 | 11.5 | 7.1 | -0.1 | -5.8  | -11.1 | 1.0  |
| 1915 | -16.1 | -10.8 | -11.3 | -0.8 | 3.0 | 8.8  | 14.1 | 10.7 | 5.0 | -0.8 | -9.6  | -22.9 | -2.6 |
| 1916 | -11.6 | -11.0 | -9.0  | -0.4 | 3.8 | 10.6 | 16.4 | 10.1 | 5.2 | -3.0 | -2.8  | -10.2 | -0.2 |
| 1917 | -17.8 | -14.6 | -11.6 | -3.6 | 5.9 | 13.2 | 15.4 | 15.4 | 6.0 | 1.2  | -1.1  | -12.1 | -1.3 |
| 1918 | -10.9 | -13.4 | -4.6  | -0.7 | 5.9 | 11.3 | 15.3 | 10.3 | 5.3 | 2.1  | -10.3 | -19.9 | -0.6 |
| 1919 | -10.0 | -13.6 | -8.7  | -1.9 | 8.4 | 11.3 | 15.3 | 10.9 | 6.8 | 0.1  | -10.0 | -14.8 | -0.6 |
| 1920 | -10.6 | -7.2  | -0.5  | -1.0 | 7.6 | 10.8 | 13.7 | 10.9 | 8.0 | 1.5  | -2.7  | -12.2 | -1.7 |
| 1921 | -15.4 | -10.5 | -3.1  | 3.1  | 8.0 | 8.9  | 12.0 | 11.0 | 6.1 | 0.2  | -8.8  | -10.1 | 0.3  |
| 1922 | -13.3 | -13.0 | -8.0  | -1.9 | 5.6 | 13.9 | 14.1 | 10.8 | 6.7 | -0.2 | -6.1  | -12.6 | -0.7 |
| 1923 | -7.6  | -16.0 | -3.6  | -2.4 | 3.9 | 9.0  | 12.9 | 10.2 | 6.5 | 0.1  | -6.3  | -13.6 | -0.7 |
| 1924 | -12.0 | -13.7 | -11.1 | -0.5 | 4.1 | 9.1  | 12.8 | 12.8 | 8.2 | -3.7 | -3.0  | -12.6 | 0.5  |
| 1925 | -4.4  | -7.8  | -9.6  | 0.5  | 6.4 | 11.2 | 17.1 | 11.9 | 7.1 | -1.9 | -8.9  | -12.8 | 0.7  |
| 1926 | -15.2 | -16.1 | -5.3  | -0.6 | 4.1 | 12.0 | 14.6 | 12.9 | 6.2 | -3.5 | -14.3 | -11.0 | -0.5 |
| 1927 | -11.7 | -18.3 | -4.9  | -0.9 | 5.5 | 9.2  | 16.5 | 12.6 | 6.0 | -1.1 | -12.1 | -11.9 | -0.3 |
| 1928 | -13.6 | -10.7 | -6.2  | -0.9 | 6.6 | 9.0  | 10.5 | 10.9 | 6.4 | 0.0  | -6.5  | -11.3 | -0.6 |
| 1929 | -12.6 | -16.5 | -2.8  | 0.8  | 7.2 | 12.6 | 11.6 | 9.8  | 6.9 | 1.4  | -2.1  | -1.6  | 0.6  |
| 1930 | -5.5  | -8.3  | -5.0  | 0.8  | 7.8 | 12.6 | 16.5 | 14.2 | 5.4 | 1.4  | -6.1  | -5.9  | 2.3  |
| ave  | -11.9 | -11.2 | -6.7  | -0.7 | 5.2 | 10.8 | 14.0 | 11.4 | 6.5 | 0.4  | -6.0  | -10.7 | 0.1  |

| Temperature |       |       |       | Station:15772 |      | Stenselo |      |      |      |     |      |      |      |     |
|-------------|-------|-------|-------|---------------|------|----------|------|------|------|-----|------|------|------|-----|
| Anno        | Jan   | Feb   | Mar   | Apr           | May  | Jun      | Jul  | Aug  | Sep  | Oct | Nov  | Dec  | Year |     |
| 1919        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1920        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1921        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1922        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1923        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1924        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1925        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1926        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1927        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1928        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1929        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1930        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1931        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1932        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1933        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1934        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1935        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1936        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1937        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1938        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1939        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1940        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1941        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1942        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1943        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1944        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1945        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1946        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1947        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1948        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1949        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1950        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1951        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1952        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1953        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1954        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1955        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1956        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1957        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1958        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1959        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| 1960        | 33.1  | -12.4 | -13.3 | -8.9          | -0.6 | 6.8      | 7.3  | 15.0 | 11.1 | 4.6 | 0.1  | -0.5 | -6.8 | 0.2 |
| ave         | -12.2 | -11.1 | -6.8  | -0.3          | 5.9  | 11.1     | 14.3 | 12.2 | 7.1  | 1.0 | -4.2 | -8.4 | 0.7  |     |

| Anno | Jan   | Feb   | Mar   | Apr  | May  | Jun  | Jul  | Aug  | Sep | Oct  | Nov   | Dec   | Year |
|------|-------|-------|-------|------|------|------|------|------|-----|------|-------|-------|------|
| 1961 | -13.8 | -15.6 | -13.1 | -1.6 | 5.4  | 12.3 | 13.6 | 11.5 | 8.0 | 6.0  | -1.9  | -12.4 | -1.5 |
| 1962 | -11.1 | -11.1 | -1.0  | 0.3  | 4.4  | 19.0 | 12.0 | 10.1 | 9.0 | 3.0  | -4.4  | -10.4 | -0.5 |
| 1963 | -14.0 | -13.5 | -9.3  | 0.6  | 4.4  | 11.1 | 12.0 | 12.6 | 9.9 | 2.2  | -4.4  | -7.7  | 0.4  |
| 1964 | -12.7 | -17.3 | -6.3  | 1.1  | 4.0  | 11.5 | 11.6 | 10.6 | 8.8 | 3.1  | -8.8  | -17.8 | -1.2 |
| 1965 | -13.4 | -15.9 | -9.1  | 2.2  | 5.0  | 14.7 | 13.1 | 10.7 | 4.7 | 0.5  | -4.6  | -8.5  | -1.5 |
| 1966 | -18.4 | -13.6 | -2.7  | -0.4 | 5.2  | 10.5 | 12.5 | 12.6 | 4.5 | 1    | -4.1  | -8.7  | -0.3 |
| 1967 | -15.4 | -13.6 | -4.7  | -0.7 | 4.4  | 11.8 | 12.7 | 11.0 | 6.4 | 2.3  | -10.1 | -6.8  | -0.7 |
| 1968 | -13.3 | -9.6  | -8.3  | -0.6 | 4.4  | 13.5 | 13.0 | 15.7 | 6.4 | -4.4 | -9.3  | -15.9 | -0.5 |
| 1969 | -15.8 | -18.9 | -5.3  | -2.6 | 6.1  | 15.3 | 13.3 | 12.3 | 6.2 | 0.9  | -7.5  | -5.7  | -0.1 |
| 1970 | -15.3 | -18.9 | -5.3  | -2.6 | 6.1  | 15.3 | 13.3 | 12.3 | 6.2 | 0.9  | -7.5  | -5.7  | -0.1 |
| 1971 | -9.2  | -9.8  | -11.9 | 1.8  | 5.2  | 10.8 | 12.7 | 11.3 | 6.2 | 0.8  | -8.3  | -6.1  | 0.0  |
| 1972 | -14.6 | -8.9  | -4.1  | -0.3 | 5.3  | 13.3 | 15.5 | 11.9 | 6.2 | -4.1 | -4.3  | -3.2  | 1.5  |
| 1973 | -4.0  | -9.8  | -1.7  | -1.5 | 4.4  | 11.9 | 16.9 | 10.8 | 4.2 | -1.8 | -7.7  | -3.5  | 0.9  |
| 1974 | -5.8  | -6.4  | -5.6  | 2.6  | 6.9  | 12.6 | 12.7 | 11.7 | 8.9 | 0.4  | -6.3  | -1.8  | 1.8  |
| 1975 | -8.9  | -4.4  | -3.0  | -1.2 | 6.9  | 9.3  | 12.9 | 11.6 | 7.9 | 2.2  | -2.1  | -9.0  | 2.0  |
| 1976 | -16.9 | -7.6  | -8.0  | -0.8 | 8.2  | 10.8 | 13.0 | 12.6 | 3.8 | -0.3 | -4.5  | -11.4 | -0.1 |
| 1977 | -12.6 | -15.6 | -3.4  | 0.7  | 4.1  | 9.9  | 12.0 | 11.5 | 3.2 | 1.9  | -4.4  | -6.4  | 0.1  |
| 1978 | -11.6 | -16.3 | -4.0  | -2.1 | 5.3  | 11.7 | 13.6 | 10.9 | 3.2 | 0.8  | -4.4  | -10.0 | -1.1 |
| 1979 | -18.0 | -9.6  | -7.6  | -1.0 | 5.0  | 12.7 | 13.5 | 11.8 | 3.0 | -0.8 | -9.6  | -12.9 | -0.3 |
| 1980 | -15.6 | -15.4 | -8.7  | -1.6 | 6.0  | 14.2 | 15.4 | 12.3 | 8.0 | -1.3 | -11.4 | -12.9 | -0.6 |
| 1981 | -11.2 | -11.6 | -11.3 | 0.2  | 8.2  | 9.5  | 13.5 | 11.1 | 7.3 | 0.7  | -7.8  | -18.5 | -0.9 |
| 1982 | -11.6 | -11.7 | -5.5  | -0.2 | 8.1  | 8.8  | 13.5 | 12.1 | 6.4 | 0.4  | -7.7  | -18.3 | 0.8  |
| 1983 | -19.9 | -10.4 | -1.5  | 0.6  | 8.8  | 10.3 | 13.4 | 10.7 | 6.4 | 1.1  | -7.7  | -19.8 | 0.9  |
| 1984 | -15.7 | -15.5 | -5.0  | -2.7 | 10.2 | 11.4 | 13.9 | 11.7 | 5.0 | 1.1  | -6.0  | -18.7 | -2.1 |
| 1985 | -18.7 | -21.5 | -5.7  | -2.4 | 4.0  | 11.7 | 13.4 | 11.5 | 5.8 | 3.1  | -8.6  | -18.5 | -1.1 |
| 1986 | -18.7 | -11.5 | -2.3  | -2.2 | 7.4  | 14.3 | 13.5 | 9.0  | 4.3 | 2.8  | -2.6  | -12.9 | 0.1  |
| 1987 | -20.4 | -13.3 | -9.1  | -0.2 | 5.0  | 10.7 | 12.3 | 9.1  | 6.0 | 4.8  | -3.6  | -9.4  | -0.6 |
| 1988 | -9.2  | -10.0 | -7.6  | -2.4 | 6.5  | 13.6 | 15.6 | 11.2 | 7.9 | 0.4  | -6.4  | -10.2 | 0.8  |
| ave  | -13.4 | -11.5 | -6.4  | -0.6 | 6.0  | 11.7 | 13.3 | 11.4 | 6.5 | 1.5  | -6.0  | -10.7 | 0.3  |

| Statistics for the whole period. |          |       |          |      |      |       |      |      |      |      |       | Station:15772 | Stensele |
|----------------------------------|----------|-------|----------|------|------|-------|------|------|------|------|-------|---------------|----------|
|                                  | Jan      | Feb   | Mar      | Apr  | May  | Jun   | Jul  | Aug  | Sep  | Oct  | Nov   | Dec           | Year     |
| num                              | 129      | 129   | 129      | 129  | 129  | 129   | 129  | 129  | 129  | 129  | 129   | 129           | 129      |
| ave                              | -12.6    | -11.6 | -7.1     | -0.7 | 5.4  | 11.2  | 13.8 | 11.4 | 6.6  | 0.6  | -5.8  | -10.6         | 0.1      |
| std                              | 4.1      | 4.4   | 3.1      | 1.6  | 1.8  | 1.9   | 1.5  | 1.4  | 1.2  | 2.2  | 3.0   | 4.1           | 1.2      |
| min                              | -22.6    | -24.7 | -15.5    | -5.0 | 0.3  | 7.0   | 10.5 | 8.7  | 3.1  | -5.8 | -14.1 | -22.9         | -2.6     |
| max                              | -4.0     | -3.0  | -0.5     | 3.1  | 10.2 | 15.9  | 17.7 | 15.7 | 10.0 | 6.0  | 0.3   | -1.6          | 2.8      |
| Interpolated                     | Jan 1860 | -     | Dec 1860 |      |      |       |      |      |      |      |       |               |          |
| Corrected                        | Jan 1861 | -     | Dec 1885 |      |      | -0.50 |      |      |      |      |       |               |          |
| Corrected                        | Jan 1956 | -     | Dec 1988 |      |      | -0.20 |      |      |      |      |       |               |          |

| Precipitation |     |     |     | Station: 6403 |     |     |     | Kristianstad |     |     |     |     |      |
|---------------|-----|-----|-----|---------------|-----|-----|-----|--------------|-----|-----|-----|-----|------|
| Anno          | Jan | Feb | Mar | Apr           | May | Jun | Jul | Aug          | Sep | Oct | Nov | Dec | Year |
| 1860          | 51  | 23  | 22  | 30            | 69  | 88  | 30  | 97           | 61  | 58  | 26  | 38  | 593  |
| 1861          | 30  | 46  | 48  | 18            | 27  | 62  | 60  | 72           | 75  | 9   | 102 | 22  | 572  |
| 1862          | 25  | 31  | 23  | 32            | 50  | 73  | 69  | 47           | 26  | 86  | 29  | 61  | 551  |
| 1863          | 30  | 31  | 26  | 38            | 9   | 51  | 71  | 56           | 82  | 33  | 25  | 64  | 516  |
| 1864          | 20  | 52  | 76  | 27            | 58  | 59  | 64  | 92           | 53  | 40  | 50  | 6   | 597  |
| 1865          | 41  | 24  | 20  | 5             | 26  | 51  | 78  | 96           | 28  | 37  | 45  | 4   | 455  |
| 1866          | 64  | 108 | 32  | 46            | 97  | 30  | 78  | 77           | 84  | 13  | 67  | 56  | 752  |
| 1867          | 79  | 41  | 20  | 67            | 24  | 53  | 82  | 22           | 48  | 73  | 27  | 40  | 577  |
| 1868          | 24  | 43  | 29  | 21            | 7   | 14  | 23  | 47           | 61  | 38  | 26  | 51  | 386  |
| 1869          | 29  | 29  | 11  | 50            | 66  | 58  | 23  | 46           | 37  | 39  | 36  | 26  | 451  |
| 1870          | 37  | 11  | 14  | 20            | 35  | 51  | 51  | 53           | 51  | 99  | 54  | 39  | 515  |
| ave           | 39  | 40  | 29  | 32            | 42  | 54  | 57  | 64           | 55  | 48  | 44  | 37  | 542  |
|               |     |     |     |               |     |     |     |              |     |     |     |     |      |
| Anno          | Jan | Feb | Mar | Apr           | May | Jun | Jul | Aug          | Sep | Oct | Nov | Dec | Year |
| 1871          | 33  | 39  | 16  | 32            | 25  | 74  | 92  | 29           | 48  | 13  | 25  | 20  | 447  |
| 1872          | 42  | 25  | 49  | 41            | 36  | 69  | 52  | 29           | 97  | 59  | 25  | 44  | 596  |
| 1873          | 48  | 21  | 6   | 20            | 38  | 83  | 36  | 67           | 68  | 53  | 58  | 45  | 583  |
| 1874          | 41  | 12  | 39  | 25            | 30  | 17  | 44  | 46           | 65  | 22  | 33  | 47  | 422  |
| 1875          | 86  | 10  | 35  | 15            | 25  | 60  | 33  | 44           | 17  | 50  | 43  | 14  | 434  |
| 1876          | 22  | 84  | 49  | 30            | 31  | 24  | 31  | 44           | 83  | 36  | 45  | 43  | 523  |
| 1877          | 73  | 50  | 37  | 26            | 36  | 43  | 82  | 95           | 28  | 30  | 36  | 30  | 588  |
| 1878          | 26  | 9   | 49  | 14            | 30  | 27  | 54  | 46           | 45  | 30  | 33  | 34  | 437  |
| 1879          | 44  | 60  | 15  | 79            | 52  | 24  | 87  | 61           | 21  | 39  | 10  | 50  | 501  |
| 1880          | 4   | 48  | 9   | 28            | 9   | 63  | 63  | 39           | 68  | 113 | 89  | 57  | 590  |
| 1881          | 29  | 36  | 24  | 7             | 20  | 28  | 85  | 100          | 71  | 59  | 39  | 30  | 528  |
| 1882          | 21  | 17  | 35  | 28            | 30  | 101 | 69  | 73           | 64  | 51  | 60  | 48  | 617  |
| 1883          | 27  | 14  | 15  | 32            | 44  | 47  | 83  | 46           | 39  | 39  | 34  | 46  | 518  |
| 1884          | 74  | 26  | 35  | 22            | 28  | 23  | 57  | 44           | 39  | 38  | 30  | 46  | 473  |
| 1885          | 11  | 31  | 24  | 26            | 43  | 54  | 58  | 92           | 57  | 88  | 22  | 16  | 522  |
| 1886          | 42  | 18  | 29  | 23            | 36  | 33  | 33  | 25           | 23  | 58  | 12  | 73  | 405  |
| 1887          | 11  | 36  | 12  | 21            | 22  | 33  | 26  | 28           | 35  | 55  | 12  | 72  | 418  |
| 1888          | 35  | 3   | 20  | 35            | 26  | 36  | 100 | 28           | 35  | 55  | 18  | 32  | 488  |
| 1889          | 12  | 3   | 20  | 16            | 26  | 30  | 137 | 108          | 38  | 45  | 19  | 3   | 509  |
| 1890          | 24  | 2   | 20  | 74            | 40  | 37  | 65  | 91           | 5   | 47  | 63  | 16  | 484  |
| 1891          | 29  | 4   | 37  | 21            | 35  | 44  | 62  | 124          | 17  | 52  | 59  | 56  | 540  |
| 1892          | 26  | 14  | 26  | 47            | 38  | 99  | 36  | 66           | 54  | 69  | 37  | 33  | 537  |
| 1893          | 24  | 51  | 15  | 6             | 33  | 21  | 76  | 46           | 39  | 73  | 37  | 38  | 448  |
| 1894          | 27  | 26  | 33  | 56            | 60  | 28  | 80  | 91           | 28  | 77  | 30  | 25  | 560  |
| 1895          | 37  | 21  | 34  | 16            | 47  | 37  | 60  | 97           | 8   | 68  | 34  | 36  | 535  |
| 1896          | 7   | 8   | 67  | 30            | 45  | 38  | 39  | 70           | 48  | 69  | 14  | 18  | 453  |
| 1897          | 44  | 9   | 67  | 31            | 25  | 30  | 123 | 66           | 63  | 11  | 21  | 18  | 498  |
| 1898          | 20  | 38  | 89  | 46            | 28  | 61  | 57  | 59           | 40  | 113 | 43  | 81  | 626  |
| 1899          | 56  | 34  | 19  | 42            | 18  | 32  | 49  | 28           | 82  | 38  | 30  | 38  | 456  |
| 1900          | 52  | 59  | 33  | 26            | 15  | 32  | 47  | 125          | 33  | 105 | 41  | 60  | 628  |
| ave           | 34  | 27  | 33  | 31            | 36  | 43  | 65  | 63           | 47  | 54  | 42  | 37  | 512  |
|               |     |     |     |               |     |     |     |              |     |     |     |     |      |
| Anno          | Jan | Feb | Mar | Apr           | May | Jun | Jul | Aug          | Sep | Oct | Nov | Dec | Year |
| 1901          | 21  | 13  | 40  | 41            | 50  | 93  | 32  | 28           | 20  | 29  | 60  | 41  | 468  |
| 1902          | 34  | 4   | 45  | 20            | 73  | 28  | 103 | 66           | 31  | 29  | 41  | 8   | 510  |
| 1903          | 38  | 30  | 11  | 35            | 14  | 44  | 44  | 111          | 28  | 65  | 48  | 43  | 438  |
| 1904          | 13  | 32  | 30  | 40            | 35  | 37  | 10  | 67           | 40  | 52  | 50  | 4   | 453  |
| 1905          | 19  | 15  | 30  | 44            | 17  | 31  | 55  | 107          | 46  | 59  | 30  | 4   | 457  |
| 1906          | 62  | 31  | 29  | 13            | 30  | 48  | 36  | 74           | 15  | 14  | 80  | 22  | 454  |
| 1907          | 22  | 26  | 24  | 38            | 38  | 35  | 70  | 51           | 5   | 17  | 30  | 61  | 449  |
| 1908          | 30  | 26  | 35  | 38            | 38  | 35  | 53  | 66           | 46  | 15  | 45  | 14  | 482  |
| 1909          | 30  | 16  | 58  | 35            | 33  | 44  | 110 | 59           | 23  | 24  | 35  | 5   | 522  |
| 1910          | 28  | 67  | 60  | 34            | 34  | 54  | 123 | 62           | 109 | 5   | 38  | 35  | 683  |
| 1911          | 33  | 53  | 26  | 24            | 10  | 57  | 47  | 16           | 19  | 78  | 94  | 43  | 500  |
| 1912          | 33  | 30  | 40  | 38            | 35  | 90  | 44  | 114          | 33  | 33  | 69  | 68  | 619  |
| 1913          | 33  | 13  | 42  | 35            | 4   | 48  | 42  | 60           | 33  | 57  | 86  | 57  | 505  |
| 1914          | 33  | 23  | 51  | 40            | 51  | 20  | 22  | 32           | 63  | 53  | 39  | 48  | 474  |
| 1915          | 89  | 36  | 18  | 21            | 52  | 9   | 113 | 42           | 41  | 33  | 39  | 82  | 575  |
| 1916          | 62  | 36  | 24  | 33            | 28  | 73  | 17  | 128          | 42  | 92  | 53  | 60  | 648  |
| 1917          | 77  | 10  | 40  | 33            | 20  | 22  | 71  | 81           | 56  | 88  | 34  | 14  | 535  |
| 1918          | 44  | 43  | 10  | 32            | 1   | 62  | 112 | 39           | 112 | 22  | 33  | 69  | 565  |
| 1919          | 59  | 26  | 27  | 65            | 26  | 67  | 55  | 79           | 33  | 18  | 32  | 69  | 532  |
| 1920          | 55  | 24  | 28  | 97            | 126 | 63  | 64  | 49           | 30  | 3   | 17  | 52  | 608  |
| 1921          | 76  | 16  | 22  | 24            | 13  | 22  | 21  | 90           | 36  | 33  | 48  | 57  | 458  |
| 1922          | 30  | 17  | 40  | 68            | 17  | 41  | 79  | 49           | 77  | 21  | 32  | 45  | 516  |
| 1923          | 42  | 46  | 11  | 41            | 39  | 41  | 46  | 113          | 32  | 49  | 37  | 37  | 563  |
| 1924          | 39  | 22  | 59  | 61            | 33  | 31  | 60  | 59           | 31  | 20  | 18  | 38  | 561  |
| 1925          | 37  | 44  | 48  | 34            | 35  | 55  | 72  | 58           | 117 | 40  | 65  | 64  | 669  |
| 1926          | 49  | 91  | 17  | 23            | 33  | 97  | 47  | 43           | 61  | 68  | 42  | 40  | 611  |
| 1927          | 55  | 16  | 65  | 67            | 56  | 102 | 69  | 152          | 72  | 76  | 27  | 25  | 782  |
| 1928          | 30  | 40  | 9   | 19            | 22  | 75  | 30  | 89           | 38  | 57  | 97  | 16  | 582  |
| 1929          | 32  | 35  | 25  | 41            | 56  | 46  | 73  | 24           | 27  | 80  | 36  | 73  | 548  |
| 1930          | 20  | 32  | 31  | 68            | 54  | 39  | 120 | 61           | 120 | 102 | 74  | 24  | 745  |
| ave           | 38  | 30  | 31  | 41            | 42  | 51  | 61  | 69           | 48  | 45  | 51  | 44  | 549  |

| Precipitation Station: 6403 Kristianstad |     |     |     |     |     |     |     |     |     |     |     |     |      |
|------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Anno                                     | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
| 1931                                     | 81  | 63  | 19  | 64  | 66  | 44  | 112 | 66  | 34  | 25  | 19  | 35  | 628  |
| 1932                                     | 21  | 4   | 17  | 48  | 60  | 21  | 82  | 52  | 70  | 139 | 18  | 38  | 640  |
| 1933                                     | 26  | 37  | 29  | 20  | 40  | 144 | 60  | 37  | 40  | 177 | 18  | 12  | 543  |
| 1934                                     | 22  | 39  | 32  | 6   | 30  | 117 | 118 | 69  | 46  | 93  | 29  | 12  | 609  |
| 1935                                     | 43  | 50  | 9   | 51  | 41  | 117 | 77  | 28  | 105 | 75  | 48  | 42  | 686  |
| 1936                                     | 57  | 46  | 31  | 67  | 49  | 11  | 118 | 66  | 35  | 47  | 27  | 16  | 570  |
| 1937                                     | 26  | 42  | 81  | 28  | 50  | 45  | 42  | 21  | 47  | 13  | 51  | 19  | 525  |
| 1938                                     | 36  | 10  | 12  | 24  | 44  | 34  | 101 | 24  | 54  | 53  | 35  | 66  | 493  |
| 1939                                     | 96  | 17  | 30  | 50  | 15  | 24  | 68  | 63  | 52  | 78  | 42  | 40  | 575  |
| 1940                                     | 24  | 20  | 78  | 27  | 50  | 11  | 43  | 100 | 62  | 26  | 46  | 23  | 510  |
| 1941                                     | 12  | 42  | 36  | 19  | 11  | 26  | 178 | 97  | 31  | 127 | 17  | 57  | 653  |
| 1942                                     | 38  | 18  | 39  | 16  | 47  | 81  | 56  | 40  | 57  | 43  | 52  | 38  | 525  |
| 1943                                     | 75  | 37  | 12  | 24  | 4   | 57  | 54  | 138 | 57  | 30  | 39  | 13  | 540  |
| 1944                                     | 70  | 16  | 33  | 7   | 61  | 28  | 46  | 38  | 97  | 57  | 50  | 38  | 631  |
| 1945                                     | 102 | 54  | 24  | 34  | 21  | 100 | 69  | 162 | 38  | 37  | 50  | 65  | 756  |
| 1946                                     | 22  | 56  | 34  | 20  | 24  | 102 | 74  | 70  | 119 | 26  | 72  | 32  | 651  |
| 1947                                     | 27  | 12  | 61  | 35  | 20  | 18  | 89  | 7   | 59  | 14  | 83  | 50  | 475  |
| 1948                                     | 92  | 40  | 10  | 36  | 81  | 44  | 37  | 89  | 37  | 30  | 32  | 11  | 539  |
| 1949                                     | 27  | 20  | 26  | 43  | 38  | 36  | 171 | 48  | 66  | 34  | 102 | 70  | 671  |
| 1950                                     | 42  | 53  | 15  | 50  | 30  | 23  | 96  | 79  | 71  | 67  | 104 | 65  | 695  |
| 1951                                     | 65  | 30  | 81  | 30  | 44  | 31  | 46  | 58  | 40  | 10  | 42  | 52  | 529  |
| 1952                                     | 50  | 25  | 19  | 20  | 50  | 64  | 81  | 39  | 49  | 115 | 79  | 44  | 635  |
| 1953                                     | 34  | 22  | 20  | 28  | 37  | 18  | 39  | 43  | 38  | 24  | 26  | 46  | 375  |
| 1954                                     | 32  | 50  | 46  | 32  | 61  | 55  | 138 | 50  | 60  | 65  | 40  | 85  | 714  |
| 1955                                     | 38  | 40  | 50  | 13  | 68  | 37  | 37  | 66  | 79  | 38  | 7   | 83  | 556  |
| 1956                                     | 66  | 25  | 14  | 47  | 16  | 48  | 50  | 81  | 27  | 42  | 31  | 30  | 477  |
| 1957                                     | 21  | 40  | 37  | 22  | 21  | 25  | 71  | 93  | 47  | 34  | 22  | 38  | 471  |
| 1958                                     | 42  | 84  | 43  | 21  | 59  | 40  | 66  | 97  | 27  | 33  | 44  | 67  | 623  |
| 1959                                     | 60  | 6   | 14  | 55  | 6   | 22  | 173 | 55  | 6   | 37  | 31  | 69  | 534  |
| 1960                                     | 60  | 32  | 11  | 27  | 26  | 37  | 121 | 78  | 23  | 81  | 81  | 98  | 675  |
| ave                                      | 47  | 34  | 32  | 32  | 39  | 48  | 84  | 65  | 52  | 52  | 46  | 48  | 580  |

| Anno | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1961 | 40  | 27  | 30  | 13  | 52  | 33  | 151 | 47  | 52  | 60  | 46  | 52  | 603  |
| 1962 | 51  | 45  | 30  | 44  | 57  | 40  | 93  | 47  | 36  | 39  | 39  | 28  | 602  |
| 1963 | 19  | 21  | 26  | 49  | 22  | 66  | 66  | 103 | 44  | 49  | 114 | 7   | 560  |
| 1964 | 13  | 12  | 16  | 31  | 24  | 29  | 34  | 29  | 40  | 30  | 29  | 53  | 380  |
| 1965 | 44  | 16  | 13  | 39  | 78  | 29  | 100 | 29  | 82  | 20  | 64  | 63  | 577  |
| 1966 | 39  | 63  | 37  | 95  | 56  | 74  | 73  | 49  | 47  | 66  | 45  | 55  | 699  |
| 1967 | 58  | 33  | 23  | 69  | 34  | 26  | 29  | 42  | 90  | 71  | 32  | 50  | 607  |
| 1968 | 69  | 37  | 23  | 17  | 41  | 59  | 125 | 27  | 61  | 73  | 49  | 57  | 622  |
| 1969 | 82  | 27  | 23  | 47  | 67  | 10  | 15  | 45  | 21  | 15  | 93  | 23  | 463  |
| 1970 | 14  | 27  | 67  | 68  | 45  | 20  | 86  | 82  | 82  | 78  | 100 | 27  | 696  |
| 1971 | 38  | 17  | 46  | 32  | 31  | 77  | 32  | 33  | 43  | 31  | 64  | 21  | 465  |
| 1972 | 31  | 25  | 49  | 40  | 31  | 28  | 70  | 67  | 29  | 4   | 56  | 18  | 448  |
| 1973 | 39  | 49  | 27  | 50  | 37  | 23  | 35  | 9   | 105 | 22  | 54  | 42  | 502  |
| 1974 | 50  | 38  | 12  | 6   | 22  | 53  | 54  | 61  | 48  | 117 | 55  | 57  | 573  |
| 1975 | 56  | 11  | 28  | 56  | 50  | 22  | 55  | 16  | 74  | 27  | 29  | 18  | 442  |
| 1976 | 49  | 7   | 22  | 33  | 44  | 34  | 44  | 22  | 53  | 91  | 35  | 100 | 534  |
| 1977 | 81  | 53  | 65  | 43  | 16  | 70  | 94  | 26  | 30  | 32  | 64  | 54  | 628  |
| 1978 | 45  | 61  | 53  | 15  | 7   | 50  | 64  | 67  | 94  | 20  | 27  | 42  | 545  |
| 1979 | 39  | 31  | 63  | 43  | 53  | 15  | 49  | 82  | 24  | 8   | 23  | 79  | 559  |
| 1980 | 45  | 34  | 9   | 18  | 13  | 54  | 47  | 70  | 37  | 98  | 77  | 56  | 558  |
| 1981 | 34  | 50  | 68  | 11  | 26  | 74  | 53  | 67  | 32  | 121 | 78  | 44  | 658  |
| 1982 | 46  | 4   | 57  | 10  | 46  | 93  | 19  | 84  | 18  | 124 | 43  | 58  | 602  |
| 1983 | 52  | 32  | 68  | 54  | 83  | 25  | 18  | 24  | 71  | 41  | 74  | 53  | 595  |
| 1984 | 88  | 27  | 11  | 12  | 49  | 105 | 72  | 19  | 96  | 54  | 33  | 24  | 590  |
| 1985 | 56  | 11  | 40  | 42  | 42  | 36  | 47  | 57  | 61  | 46  | 9   | 118 | 565  |
| 1986 | 77  | 25  | 31  | 45  | 30  | 46  | 50  | 59  | 56  | 51  | 33  | 66  | 569  |
| 1987 | 28  | 35  | 28  | 31  | 47  | 86  | 110 | 50  | 68  | 15  | 68  | 24  | 590  |
| 1988 | 133 | 62  | 34  | 39  | 16  | 63  | 123 | 30  | 63  | 57  | 19  | 52  | 691  |
| ave  | 50  | 32  | 35  | 37  | 43  | 48  | 65  | 50  | 56  | 53  | 54  | 47  | 569  |

| Statistics for the whole period. Station: 6403 Kristianstad |     |     |     |     |     |     |     |     |     |     |     |     |      |
|-------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                                                             | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
| num                                                         | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129  |
| ave                                                         | 42  | 32  | 32  | 35  | 40  | 48  | 68  | 62  | 51  | 50  | 48  | 43  | 551  |
| std                                                         | 22  | 19  | 19  | 18  | 23  | 26  | 34  | 30  | 25  | 30  | 25  | 22  | 84   |
| min                                                         | 4   | 2   | 3   | 5   | 1   | 2   | 10  | 7   | 5   | 3   | 6   | 4   | 375  |
| max                                                         | 133 | 108 | 89  | 97  | 126 | 144 | 178 | 162 | 120 | 139 | 114 | 118 | 782  |

Interpolated Jan 1860 - Dec 1878

| Precipitation |     |     |     | Station:15772 |     |     |     | Stenselo |     |     |     |     |      |
|---------------|-----|-----|-----|---------------|-----|-----|-----|----------|-----|-----|-----|-----|------|
| Anno          | Jan | Feb | Mar | Apr           | May | Jun | Jul | Aug      | Sep | Oct | Nov | Dec | Year |
| 1860          | 55  | 15  | 30  | 10            | 74  | 57  | 41  | 107      | 43  | 63  | 44  | 17  | 556  |
| 1861          | 14  | 21  | 9   | 7             | 42  | 2   | 261 | 120      | 43  | 20  | 48  | 18  | 605  |
| 1862          | 17  | 8   | 12  | 36            | 4   | 39  | 140 | 36       | 2   | 26  | 49  | 23  | 392  |
| 1863          | 49  | 8   | 17  | 35            | 17  | 43  | 34  | 120      | 155 | 19  | 4   | 22  | 523  |
| 1864          | 8   | 24  | 33  | 18            | 19  | 113 | 56  | 52       | 158 | 35  | 59  | 36  | 611  |
| 1865          | 86  | 35  | 10  | 17            | 28  | 24  | 82  | 26       | 57  | 55  | 30  | 8   | 458  |
| 1866          | 28  | 37  | 18  | 46            | 66  | 62  | 119 | 193      | 89  | 3   | 45  | 41  | 747  |
| 1867          | 49  | 20  | 16  | 26            | 1   | 106 | 38  | 45       | 11  | 88  | 21  | 19  | 440  |
| 1868          | 22  | 38  | 53  | 19            | 31  | 39  | 7   | 18       | 17  | 25  | 18  | 35  | 322  |
| 1869          | 9   | 32  | 7   | 4             | 69  | 13  | 74  | 66       | 56  | 21  | 45  | 25  | 421  |
| 1870          | 59  | 65  | 4   | 1             | 30  | 71  | 29  | 61       | 70  | 27  | 61  | 44  | 522  |
| ave           | 36  | 28  | 19  | 20            | 35  | 52  | 80  | 77       | 64  | 35  | 39  | 26  | 509  |

| Anno | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1871 | 9   | 4   | 7   | 23  | 4   | 35  | 110 | 10  | 17  | 26  | 14  | 15  | 274  |
| 1872 | 27  | 16  | 9   | 21  | 44  | 37  | 17  | 63  | 55  | 54  | 30  | 35  | 437  |
| 1873 | 11  | 9   | 21  | 19  | 26  | 24  | 34  | 96  | 57  | 27  | 19  | 30  | 393  |
| 1874 | 21  | 1   | 0   | 19  | 12  | 13  | 133 | 120 | 49  | 14  | 19  | 35  | 335  |
| 1875 | 11  | 0   | 7   | 12  | 28  | 36  | 50  | 21  | 18  | 15  | 50  | 39  | 267  |
| 1876 | 4   | 3   | 35  | 22  | 2   | 45  | 55  | 59  | 85  | 15  | 16  | 12  | 353  |
| 1877 | 12  | 0   | 19  | 23  | 25  | 57  | 28  | 3   | 13  | 21  | 39  | 19  | 359  |
| 1878 | 8   | 0   | 19  | 15  | 80  | 30  | 24  | 38  | 58  | 39  | 53  | 13  | 376  |
| 1879 | 2   | 24  | 19  | 43  | 30  | 62  | 16  | 60  | 65  | 48  | 31  | 37  | 397  |
| 1880 | 6   | 15  | 5   | 6   | 25  | 46  | 36  | 27  | 91  | 10  | 26  | 32  | 325  |
| 1881 | 16  | 5   | 4   | 3   | 15  | 50  | 77  | 101 | 34  | 45  | 29  | 21  | 400  |
| 1882 | 63  | 54  | 47  | 31  | 36  | 26  | 67  | 90  | 4   | 11  | 33  | 17  | 469  |
| 1883 | 24  | 8   | 5   | 4   | 42  | 22  | 19  | 98  | 31  | 36  | 33  | 33  | 325  |
| 1884 | 33  | 12  | 17  | 13  | 46  | 34  | 111 | 0   | 43  | 52  | 13  | 37  | 401  |
| 1885 | 18  | 46  | 11  | 45  | 48  | 24  | 50  | 59  | 38  | 35  | 33  | 34  | 441  |
| 1886 | 22  | 8   | 4   | 29  | 84  | 53  | 175 | 118 | 54  | 13  | 37  | 34  | 631  |
| 1887 | 27  | 3   | 5   | 12  | 31  | 11  | 40  | 75  | 36  | 25  | 18  | 35  | 308  |
| 1888 | 26  | 7   | 1   | 11  | 25  | 0   | 116 | 56  | 60  | 89  | 27  | 26  | 444  |
| 1889 | 15  | 16  | 14  | 6   | 21  | 40  | 126 | 59  | 36  | 62  | 18  | 20  | 433  |
| 1890 | 30  | 6   | 11  | 45  | 30  | 75  | 107 | 64  | 29  | 31  | 20  | 14  | 462  |
| 1891 | 22  | 5   | 20  | 12  | 51  | 12  | 48  | 64  | 74  | 42  | 13  | 25  | 388  |
| 1892 | 23  | 15  | 17  | 27  | 25  | 73  | 28  | 154 | 77  | 19  | 12  | 24  | 494  |
| 1893 | 6   | 24  | 15  | 17  | 23  | 61  | 52  | 73  | 81  | 73  | 20  | 32  | 477  |
| 1894 | 33  | 23  | 14  | 8   | 35  | 45  | 58  | 167 | 30  | 26  | 26  | 24  | 489  |
| 1895 | 7   | 5   | 11  | 14  | 9   | 68  | 58  | 80  | 59  | 81  | 27  | 17  | 436  |
| 1896 | 15  | 13  | 44  | 22  | 14  | 44  | 61  | 52  | 46  | 101 | 14  | 19  | 445  |
| 1897 | 20  | 20  | 37  | 18  | 35  | 35  | 58  | 52  | 84  | 44  | 12  | 24  | 439  |
| 1898 | 16  | 12  | 25  | 3   | 41  | 43  | 68  | 78  | 44  | 11  | 20  | 42  | 403  |
| 1899 | 29  | 24  | 29  | 39  | 15  | 22  | 89  | 30  | 77  | 45  | 38  | 23  | 460  |
| 1900 | 26  | 26  | 13  | 14  | 9   | 33  | 71  | 71  | 8   | 61  | 29  | 27  | 388  |
| ave  | 21  | 13  | 16  | 19  | 30  | 38  | 67  | 68  | 49  | 43  | 24  | 24  | 412  |

| Anno | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1901 | 19  | 18  | 13  | 19  | 6   | 64  | 17  | 61  | 14  | 69  | 11  | 34  | 345  |
| 1902 | 52  | 18  | 32  | 2   | 26  | 22  | 38  | 126 | 51  | 8   | 16  | 9   | 400  |
| 1903 | 32  | 23  | 44  | 34  | 54  | 46  | 85  | 119 | 66  | 31  | 17  | 24  | 575  |
| 1904 | 16  | 13  | 11  | 18  | 53  | 60  | 31  | 116 | 48  | 41  | 23  | 30  | 460  |
| 1905 | 22  | 17  | 13  | 27  | 36  | 34  | 61  | 95  | 69  | 26  | 39  | 11  | 450  |
| 1906 | 29  | 23  | 46  | 12  | 82  | 24  | 68  | 31  | 30  | 16  | 32  | 25  | 418  |
| 1907 | 28  | 26  | 14  | 30  | 40  | 77  | 101 | 143 | 24  | 55  | 18  | 9   | 565  |
| 1908 | 24  | 39  | 24  | 17  | 17  | 39  | 59  | 44  | 17  | 23  | 23  | 16  | 324  |
| 1909 | 20  | 10  | 40  | 19  | 8   | 16  | 65  | 151 | 65  | 120 | 19  | 36  | 569  |
| 1910 | 39  | 20  | 16  | 49  | 29  | 49  | 34  | 4   | 27  | 27  | 88  | 30  | 412  |
| 1911 | 18  | 8   | 11  | 43  | 2   | 56  | 49  | 36  | 79  | 33  | 30  | 18  | 383  |
| 1912 | 18  | 21  | 51  | 5   | 45  | 47  | 25  | 78  | 53  | 39  | 61  | 78  | 521  |
| 1913 | 16  | 25  | 11  | 34  | 19  | 26  | 166 | 52  | 14  | 31  | 24  | 31  | 449  |
| 1914 | 14  | 28  | 41  | 13  | 38  | 70  | 74  | 58  | 34  | 17  | 9   | 43  | 439  |
| 1915 | 22  | 31  | 9   | 20  | 37  | 33  | 135 | 77  | 52  | 5   | 91  | 24  | 536  |
| 1916 | 35  | 17  | 39  | 37  | 28  | 50  | 30  | 82  | 31  | 48  | 64  | 40  | 501  |
| 1917 | 7   | 17  | 13  | 23  | 34  | 55  | 39  | 64  | 86  | 65  | 33  | 28  | 494  |
| 1918 | 22  | 13  | 7   | 6   | 24  | 80  | 82  | 85  | 104 | 39  | 24  | 35  | 509  |
| 1919 | 28  | 9   | 39  | 21  | 23  | 19  | 62  | 83  | 52  | 19  | 22  | 30  | 535  |
| 1920 | 49  | 48  | 53  | 23  | 33  | 42  | 134 | 70  | 40  | 16  | 14  | 18  | 540  |
| 1921 | 33  | 7   | 26  | 15  | 21  | 100 | 89  | 211 | 23  | 62  | 18  | 47  | 652  |
| 1922 | 30  | 21  | 26  | 38  | 50  | 108 | 97  | 95  | 16  | 108 | 10  | 47  | 566  |
| 1923 | 37  | 4   | 19  | 19  | 53  | 22  | 30  | 77  | 74  | 105 | 3   | 16  | 502  |
| 1924 | 19  | 16  | 18  | 19  | 65  | 25  | 76  | 76  | 117 | 73  | 3   | 68  | 629  |
| 1925 | 20  | 32  | 26  | 31  | 31  | 54  | 108 | 108 | 34  | 33  | 9   | 68  | 594  |
| 1926 | 13  | 22  | 31  | 40  | 71  | 29  | 23  | 169 | 32  | 57  | 64  | 19  | 570  |
| 1927 | 48  | 27  | 43  | 24  | 46  | 24  | 48  | 113 | 92  | 63  | 66  | 18  | 527  |
| 1928 | 38  | 34  | 8   | 26  | 48  | 100 | 88  | 88  | 55  | 63  | 60  | 18  | 506  |
| 1929 | 32  | 6   | 19  | 20  | 18  | 55  | 67  | 96  | 67  | 35  | 48  | 34  | 475  |
| 1930 | 26  | 6   | 41  | 31  | 17  | 84  | 43  | 101 | 8   | 40  | 43  | 33  | 473  |
| ave  | 26  | 20  | 26  | 24  | 35  | 60  | 67  | 90  | 49  | 43  | 34  | 30  | 503  |

| Precipitation |     |     |     | Station:15772 |     |     |     | Stenselse |     |     |     |     |      |  |  |
|---------------|-----|-----|-----|---------------|-----|-----|-----|-----------|-----|-----|-----|-----|------|--|--|
| Anno          | Jan | Feb | Mar | Apr           | May | Jun | Jul | Aug       | Sep | Oct | Nov | Dec | Year |  |  |
| 1931          | 48  | 12  | 10  | 25            | 68  | 80  | 104 | 124       | 33  | 38  | 23  | 22  | 587  |  |  |
| 1932          | 31  | 12  | 19  | 21            | 23  | 62  | 91  | 150       | 74  | 24  | 13  | 13  | 433  |  |  |
| 1933          | 19  | 27  | 25  | 8             | 7   | 13  | 95  | 94        | 23  | 31  | 29  | 7   | 338  |  |  |
| 1934          | 19  | 32  | 24  | 34            | 13  | 36  | 72  | 79        | 55  | 82  | 31  | 49  | 566  |  |  |
| 1935          | 31  | 41  | 5   | 45            | 29  | 85  | 78  | 39        | 51  | 58  | 56  | 54  | 572  |  |  |
| 1936          | 44  | 11  | 35  | 39            | 6   | 68  | 82  | 101       | 3   | 11  | 19  | 33  | 452  |  |  |
| 1937          | 14  | 30  | 31  | 15            | 51  | 59  | 80  | 28        | 129 | 11  | 37  | 34  | 519  |  |  |
| 1938          | 34  | 15  | 42  | 10            | 88  | 90  | 96  | 36        | 19  | 72  | 50  | 18  | 570  |  |  |
| 1939          | 40  | 32  | 8   | 23            | 26  | 50  | 127 | 22        | 49  | 8   | 45  | 14  | 444  |  |  |
| 1940          | 17  | 15  | 22  | 10            | 34  | 14  | 40  | 88        | 107 | 38  | 48  | 26  | 459  |  |  |
| 1941          | 5   | 24  | 36  | 9             | 0   | 39  | 56  | 114       | 70  | 18  | 22  | 43  | 436  |  |  |
| 1942          | 9   | 14  | 6   | 9             | 35  | 71  | 61  | 31        | 49  | 118 | 19  | 29  | 451  |  |  |
| 1943          | 37  | 14  | 28  | 29            | 13  | 51  | 54  | 32        | 63  | 44  | 32  | 22  | 419  |  |  |
| 1944          | 20  | 6   | 51  | 6             | 17  | 77  | 45  | 99        | 64  | 22  | 55  | 72  | 534  |  |  |
| 1945          | 25  | 27  | 12  | 53            | 67  | 69  | 52  | 71        | 11  | 62  | 26  | 34  | 509  |  |  |
| 1946          | 33  | 44  | 17  | 30            | 23  | 79  | 40  | 53        | 78  | 18  | 43  | 29  | 487  |  |  |
| 1947          | 17  | 7   | 10  | 22            | 16  | 68  | 89  | 11        | 110 | 46  | 37  | 67  | 500  |  |  |
| 1948          | 66  | 12  | 23  | 19            | 62  | 45  | 54  | 59        | 29  | 58  | 22  | 27  | 476  |  |  |
| 1949          | 54  | 22  | 19  | 32            | 77  | 66  | 18  | 85        | 19  | 43  | 69  | 56  | 560  |  |  |
| 1950          | 39  | 20  | 29  | 72            | 40  | 42  | 107 | 25        | 47  | 34  | 57  | 50  | 562  |  |  |
| 1951          | 18  | 48  | 7   | 37            | 6   | 59  | 108 | 87        | 33  | 3   | 78  | 54  | 538  |  |  |
| 1952          | 24  | 43  | 19  | 32            | 21  | 90  | 71  | 85        | 46  | 16  | 42  | 28  | 517  |  |  |
| 1953          | 20  | 42  | 42  | 59            | 56  | 50  | 110 | 85        | 35  | 28  | 20  | 49  | 557  |  |  |
| 1954          | 16  | 12  | 21  | 16            | 14  | 78  | 130 | 144       | 43  | 29  | 23  | 45  | 571  |  |  |
| 1955          | 30  | 33  | 10  | 12            | 33  | 47  | 43  | 22        | 59  | 20  | 55  | 59  | 423  |  |  |
| 1956          | 31  | 22  | 2   | 22            | 12  | 48  | 145 | 72        | 12  | 43  | 20  | 22  | 451  |  |  |
| 1957          | 30  | 24  | 29  | 7             | 47  | 34  | 141 | 71        | 48  | 28  | 26  | 34  | 519  |  |  |
| 1958          | 28  | 10  | 13  | 15            | 42  | 23  | 57  | 61        | 13  | 52  | 24  | 46  | 384  |  |  |
| 1959          | 58  | 12  | 14  | 22            | 27  | 39  | 43  | 37        | 15  | 29  | 66  | 36  | 398  |  |  |
| 1960          | 30  | 23  | 19  | 20            | 33  | 75  | 104 | 103       | 32  | 13  | 66  | 44  | 562  |  |  |
| ave           | 30  | 23  | 21  | 25            | 33  | 57  | 80  | 67        | 47  | 37  | 38  | 36  | 493  |  |  |

| Anno | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |  |  |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|--|
| 1961 | 21  | 26  | 16  | 6   | 51  | 96  | 127 | 116 | 31  | 50  | 33  | 30  | 603  |  |  |
| 1962 | 44  | 22  | 10  | 3   | 16  | 50  | 92  | 75  | 74  | 17  | 32  | 15  | 424  |  |  |
| 1963 | 11  | 6   | 7   | 27  | 33  | 43  | 76  | 41  | 61  | 32  | 63  | 29  | 424  |  |  |
| 1964 | 12  | 32  | 21  | 34  | 28  | 78  | 32  | 159 | 41  | 30  | 40  | 42  | 555  |  |  |
| 1965 | 64  | 17  | 47  | 25  | 36  | 38  | 89  | 44  | 38  | 29  | 23  | 40  | 490  |  |  |
| 1966 | 26  | 39  | 56  | 30  | 44  | 50  | 146 | 31  | 61  | 43  | 32  | 99  | 657  |  |  |
| 1967 | 34  | 42  | 42  | 8   | 37  | 48  | 50  | 83  | 64  | 87  | 31  | 40  | 606  |  |  |
| 1968 | 34  | 12  | 27  | 46  | 38  | 39  | 10  | 48  | 62  | 24  | 34  | 38  | 414  |  |  |
| 1969 | 40  | 13  | 16  | 41  | 38  | 21  | 45  | 37  | 37  | 41  | 41  | 15  | 484  |  |  |
| 1970 | 15  | 30  | 37  | 50  | 20  | 29  | 146 | 42  | 37  | 65  | 57  | 15  | 543  |  |  |
| 1971 | 44  | 40  | 34  | 33  | 27  | 75  | 80  | 28  | 40  | 50  | 45  | 40  | 536  |  |  |
| 1972 | 9   | 22  | 14  | 35  | 23  | 91  | 50  | 77  | 77  | 20  | 73  | 35  | 505  |  |  |
| 1973 | 14  | 31  | 21  | 46  | 38  | 38  | 187 | 61  | 42  | 23  | 26  | 38  | 505  |  |  |
| 1974 | 41  | 48  | 25  | 10  | 10  | 43  | 138 | 61  | 42  | 23  | 26  | 38  | 505  |  |  |
| 1975 | 38  | 17  | 5   | 29  | 45  | 36  | 33  | 32  | 95  | 21  | 22  | 48  | 441  |  |  |
| 1976 | 41  | 28  | 11  | 7   | 21  | 31  | 96  | 7   | 44  | 24  | 40  | 29  | 379  |  |  |
| 1977 | 20  | 11  | 29  | 49  | 24  | 35  | 108 | 36  | 22  | 26  | 29  | 29  | 400  |  |  |
| 1978 | 37  | 18  | 27  | 25  | 24  | 102 | 66  | 108 | 27  | 21  | 29  | 14  | 444  |  |  |
| 1979 | 32  | 18  | 23  | 25  | 25  | 47  | 138 | 66  | 49  | 26  | 39  | 27  | 451  |  |  |
| 1980 | 6   | 16  | 41  | 12  | 36  | 77  | 39  | 90  | 42  | 49  | 39  | 27  | 494  |  |  |
| 1981 | 38  | 16  | 50  | 9   | 5   | 126 | 137 | 38  | 27  | 55  | 54  | 26  | 581  |  |  |
| 1982 | 16  | 16  | 31  | 11  | 65  | 19  | 39  | 67  | 63  | 39  | 50  | 38  | 444  |  |  |
| 1983 | 35  | 8   | 21  | 37  | 28  | 57  | 32  | 33  | 128 | 76  | 33  | 38  | 556  |  |  |
| 1984 | 33  | 20  | 24  | 15  | 19  | 61  | 53  | 77  | 168 | 123 | 55  | 38  | 555  |  |  |
| 1985 | 14  | 17  | 36  | 3   | 48  | 86  | 85  | 164 | 107 | 33  | 47  | 39  | 609  |  |  |
| 1986 | 38  | 3   | 28  | 22  | 64  | 5   | 67  | 45  | 50  | 57  | 51  | 67  | 497  |  |  |
| 1987 | 26  | 23  | 35  | 4   | 47  | 86  | 126 | 59  | 56  | 34  | 47  | 30  | 573  |  |  |
| 1988 | 57  | 76  | 35  | 13  | 41  | 15  | 172 | 112 | 29  | 27  | 3   | 37  | 617  |  |  |
| ave  | 32  | 24  | 27  | 25  | 36  | 55  | 89  | 64  | 57  | 42  | 41  | 37  | 529  |  |  |

| Statistics for the whole period. |     |     |     | Station:15772 |     |     |     | Stenselse |     |     |     |     |      |  |  |
|----------------------------------|-----|-----|-----|---------------|-----|-----|-----|-----------|-----|-----|-----|-----|------|--|--|
| num                              | Jan | Feb | Mar | Apr           | May | Jun | Jul | Aug       | Sep | Oct | Nov | Dec | Year |  |  |
| ave                              | 129 | 129 | 129 | 129           | 129 | 129 | 129 | 129       | 129 | 129 | 129 | 129 | 129  |  |  |
| std                              | 28  | 21  | 22  | 23            | 34  | 52  | 76  | 73        | 51  | 41  | 35  | 15  | 48   |  |  |
| min                              | 16  | 13  | 14  | 14            | 20  | 27  | 42  | 41        | 30  | 26  | 18  | 3   | 28   |  |  |
| max                              | 86  | 76  | 56  | 72            | 88  | 151 | 261 | 211       | 158 | 142 | 91  | 99  | 747  |  |  |

- |       |                                                                                                                                                    |       |                                                                                                                                                                                                                             |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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