

18. RESULTS OF OBSERVATIONS

18.1. Results of observations of meteorological parameters made at Hornsund during the Founding Expedition (1957–1958)

During the Polish Polar Expedition to Hornsund that was organized in framework of the third International Geophysical Year, systematic measurements and observations were made 8 times a day from July 24, 1957 to August 16, 1958. Tadeusz Makarewicz, MSc, of the weather service in the Kraków division of the Institute of Meteorology and Water Management (IMWM) was responsible for building the meteorological station and the observations. Observations were also made by other members of the wintering group.

The station was incorporated into marine weather service as Number 01006. Its coordinates and location were the same as the currently functioning station. Part of results of the observations made during the expedition was published shortly after its ending in various sources that, in general, are currently scarcely accessible.

After reactivation of the Polish Polar Station at Hornsund in 1978 by the Institute of Geophysics PAS, T. Makarewicz passed on results of standard meteorological observations stored by him to the Laboratory of Deep Sea and Polar Research IMWM where these data were checked for the content and format. From this base the Marine Division of IMWM published "Meteorological Yearbook Hornsund July 1957 – August 1958" in 1982. Table 18.1 displays the basic climatic values from this yearbook.

Table 18.1. Mean monthly and mean, maximum and minimum diurnal values of meteorological parameters for the period August 1957 – July 1958

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Mean monthly air temperature [°C]												
1957	-	-	-	-	-	-	-	4.3	1.9	1.7	-4.3	-10.8
1958	-6.9	-10.8	-13.2	-8.4	-1.7	2.2	4.3	-	-	-	-	-
Maximum diurnal air temperature [°C]												
1957	-	-	-	-	-	-	-	8.7	6.7	5.8	4.1	0.8
1958	2.6	-1.5	0.2	3.2	2.8	7.8	9.1	-	-	-	-	-
Minimum diurnal air temperature [°C]												
1957	-	-	-	-	-	-	-	-0.7	-3.6	-8.1	-15.5	-20.2
1958	-23.8	-20.0	-24.8	-23.5	-8.8	-3.8	1.0	-	-	-	-	-
Minimum mean diurnal temperature at the ground [°C]												
1957	-	-	-	-	-	-	-	1.9	-1.0	-1.2	-8.6	-16.2
1958	-11.9	-15.0	-24.8	-23.5	-8.8	-3.8	1.5	-	-	-	-	-
Mean diurnal water vapour pressure [hPa]												
1957	-	-	-	-	-	-	-	7.0	5.8	5.7	3.5	2.0
1958	3.0	2.1	1.7	2.9	4.3	5.8	6.4	-	-	-	-	-
Mean diurnal relative humidity [%]												
1957	-	-	-	-	-	-	-	84	82	81	72	63
1958	73	69	66	72	78	80	77	-	-	-	-	-
Minimum diurnal relative humidity [%]												
1957	-	-	-	-	-	-	-	72	66	66	48	43
1958	50	45	50	54	69	71	60	-	-	-	-	-

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Mean monthly pressure at sea level [hPa]												
1957	-	-	-	-	-	-	-	-	1013.7	994.3	1007.8	1002.9
1958	1002.2	1012.9	1022.3	1016.2	1018.6	1015.9	1008.6	-	-	-	-	-
Maximum diurnal pressure at the sea level [hPa]												
1957	-	-	-	-	-	-	-	-	1031.6	1028.8	1027.0	1020.6
1958	1026.5	1029.6	1036.3	1023.5	1027.6	1033.2	1033.3	-	-	-	-	-
Minimum diurnal pressure at the sea level [hPa]												
1957	-	-	-	-	-	-	-	-	991.0	972.5	985.6	959.2
1958	972.6	977.8	1002.6	997.0	1008.2	1006.0	990.8	-	-	-	-	-
Monthly totals of sunshine duration [hours]												
1957	-	-	-	-	-	-	-	81.3	40.4	1.7	-	-
1958	-	13.9	106.2	242.9	182.7	107.7	104.2	-	-	-	-	-
The longest diurnal sunshine duration [hours]												
1957	-	-	-	-	-	-	-	15.2	12.4	1.5	-	-
1958	-	5.3	10.3	16.1	18.6	16.1	11.7	-	-	-	-	-
Mean monthly cloudiness [oktas]												
1957	-	-	-	-	-	-	-	6.8	7.0	7.0	5.6	4.0
1958	5.6	5.0	4.5	4.8	6.3	7.1	6.9	-	-	-	-	-
Mean monthly wind velocity [$\text{m}\cdot\text{s}^{-1}$]												
1957	-	-	-	-	-	-	-	3.6	3.6	4.9	6.2	6.3
1958	6.3	7.0	5.3	4.4	4.1	3.2	3.8	-	-	-	-	-
Minimum wind velocity (main observations) [$\text{m}\cdot\text{s}^{-1}$]												
1957	-	-	-	-	-	-	-	20.0	18.0	17.0	25.0	17.0
1958	26.0	24.0	22.0	15.0	18.5	17.0	15.0	-	-	-	-	-
Number of days with calm conditions												
1957	-	-	-	-	-	-	-	2	2	0	0	0
1958	1	0	0	1	1	0	0	-	-	-	-	-
Monthly precipitation totals [mm]												
1957	-	-	-	-	-	-	-	69.5	35.6	79.4	33.5	36.3
1958	52.0	28.5	14.6	8.8	4.5	42.2	17.0	-	-	-	-	-
Maximum diurnal precipitation totals [mm]												
1957	-	-	-	-	-	-	-	16.7	9.0	12.0	13.2	15.1
1958	9.1	12.0	3.6	2.5	2.4	9.4	3.5	-	-	-	-	-
Number of days with precipitation ≥ 0.0 mm												
1957	-	-	-	-	-	-	-	26	23	30	26	14
1958	24	14	13	13	25	27	24	-	-	-	-	-
Number of days with precipitation < 0.1 mm												
1957	-	-	-	-	-	-	-	3	6	6	8	0
1958	6	7	3	8	20	15	12	-	-	-	-	-

18. 2. Results of observations of meteorological parameters at Hornsund in 1978–2009

During the consecutive scientific expeditions of the Institute of Geophysics PAS meteorological teams consisted of two observers recruited either from the staff of the Polish weather service (IMWM) or from researchers interested in climatologic problems, working at Polish universities or in research institutes. Table 18.2 presents the list of observers in the consecutive expeditions, together with their affiliations.

Table 18.2. List of observers working at the Hornsund meteorological station in 1978-2009

Expedition	Year	Observers
I	1978/79	Edward Jarmuszewski (IMGW OGa), Tomasz Petelski (IMGW OGa)
II	1979/80	Krzysztof Lubomirski (IMGW OGa), Sławomir Swerpel (IMGW OGa)
III	1980/81	Bronisław Głowicki (IMGW OWr), Antoni Barański (IMGW OKk)
IV	1981/82	Mieczysław Sobik (U.Wr.), Krzysztof Migala (U.Wr.)
V	1982/83	Waldemar Stepko (IMGW OGa), Jan Rodzik (UMCS)
VI	1983/84	Zbigniew Pietroń (IMGW OKk), Michał Ziemiański (IMGW OGa)
VII	1984/85	Piotr Adamski (IMGW OGa), Jerzy Książek (IMGW OGa)
VIII	1985/86	Zbigniew Pietroń (IMGW OKk), Zbigniew Toporowski (IMGW OGa)
IX	1986/87	Piotr Adamski (IMGW OGa), Ryszard Dogił (IMGW OGa)
X	1987/88	Sławomir Wiktorowicz (IMGW OGa), Tadeusz Pelcar (IMGW OGa)
XI	1988/89	Edward Jarmuszewski (IMGW OGa), Zbigniew Wciślak (IMGW OKk)
XII	1989/90	Tadeusz Niedźwiedź (IMGW OKk), Ryszard Moroz (IMGW OGa)
XIII	1990/91	Janusz Małaszkiwicz (IMGW OWr), Lucjan Nowosielski (IMGW CBP)
XIV	1991/92	Edward Szaraniec (IMGW OKk), Jerzy Cyrkler (IGF PAN)
XV	1992/93	Sławomir Wiktorowicz (IMGW OGa), Jan Rodzik (UMCS)
XVI	1993/94	Antoni Barański (IMGW OKk), Lucjan Nowosielski (IMGW OWa)
XVII	1994/95	Jerzy Kwaczyński (IMGW OWa), Jan Orzeł (IMGW)
XVIII	1995/96	Antoni Barański (IMGW OKk), Maciej Włosek (IGF PAN)
XIX	1996/97	Zbigniew Wciślak (IMGW OKk), Ryszard Moroz (IMGW OM)
XX	1997/98	Janusz Małaszkiwicz (IMGW OWr), Lucjan Nowosielski (IMGW OWa)
XXI	1998/99	Antoni Barański (IMGW OKk), Mariusz Skarzyński (IMGW OBa)
XXII	1999/00	Zbigniew Wciślak (IMGW OKk), Andrzej Araźny (IGiPZ PAN)
XXIII	2000/01	Jerzy Kwaczyński (IMGW OWa), Mariusz Skarzyński (IMGW)
XXIV	2001/02	Marcin Lecki (IMGW), Janusz Nowik (IMGW OBa)
XXV	2002/03	Mariusz Skarzyński (IMGW), Jerzy Kwaczyński (IMGW OWa)
XXVI	2003/04	Lech Buchert (IMGW OPn), Jan Mandat (IMGW OKk)
XXVII	2004/05	Jerzy Kwaczyński (IGF PAN), Michał Kowalewski (IMGW OWa)
XXVIII	2005/06	Witold Kaszkin (IMGW OKk), Marek Kowalczyk (U.Wr.)
XXIX	2006/07	Andrzej Czarnecki (IMGW OKk), Anna Rozwadowska (IO PAN)
XXX	2007/08	Jerzy Kwaczyński (IGF PAN), Mariusz Skarzyński (IMGW)
XXXI	2008/09	Witold Kaszkin (IMGW OKk), Elżbieta Majchrowska (IGF PAN)
XXXII	2009/10	Anna Haczek (IGF PAN), Jakub Soroka (IMGW OPn)

Explanations:

IMGW – Institute of Meteorology and Water Management: OGa – Gdańsk division, OKk – Kraków division, OWr – Wrocław division, CBP – Central Office of Forecasts in Warsaw, OWa – Warszawa division, OM – Marine division in Gdynia, OBa – Białystok division, OPn – Poznań division, U.Wr. – University of Wrocław, UMCS – Maria Curie-Skłodowska University in Lublin, IGF PAN – Institute of Geophysics PAS in Warsaw, IGiPZ PAN – Institute of Geography and Spatial Management PAS in Warsaw, IO PAN – Institute of Oceanology PAS in Sopot.

Results of observations of the specific meteorological parameters measured at the Polish Polar Station in Hornsund in the period July 1978 – December 2012 are presented in Tables (18.3 – 18.37). These tables present monthly and annual values, as well as mean (Mean), maximum (Max) and minimum (Min) multiannual means. Also presented are standard deviations of the means (σ_n) and year of occurrence of minimum and maximum of a given component. Line ‘-’ marks lack of data.

Table 18.3. Monthly and annual means, and multiannual monthly means, maxima and minima of atmospheric pressure reduced to sea level [hPa]

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual mean
1978	<i>1003.4</i>	<i>1017.5</i>	<i>1005.3</i>	<i>1018.8</i>	<i>1018.1</i>	<i>1014.6</i>	1014.3	1014.8	1011.8	1000.5	993.7	1016.2	1010.7
1979	1016.2	1011.1	1011.0	1022.9	1014.8	1010.5	1013.8	1013.9	1004.4	1013.7	1002.8	1001.3	1011.4
1980	1013.9	1005.9	1018.9	1011.9	1020.6	1013.7	1015.3	1012.6	1007.6	1008.4	1010.9	1000.4	1011.7
1981	998.6	1004.4	1013.4	1011.4	1016.9	1008.4	<i>1012.1</i>	<i>1013.0</i>	<i>1013.5</i>	<i>1012.5</i>	<i>1002.9</i>	<i>1015.0</i>	1010.2
1982	<i>1008.9</i>	<i>1004.5</i>	<i>1004.4</i>	<i>1004.2</i>	<i>1019.0</i>	<i>1016.3</i>	<i>1008.1</i>	1009.2	1006.5	1013.8	997.4	996.3	1007.4
1983	993.9	1004.3	1004.3	1018.1	1021.3	1009.0	1009.5	1002.0	1007.2	1001.1	1006.8	1005.3	1006.9
1984	997.9	1002.6	1020.3	1015.2	1013.3	1011.1	1011.1	1010.2	1010.4	1009.7	1011.9	1006.3	1010.0
1985	1014.0	1017.7	1012.5	1010.9	1020.3	1016.3	1018.5	1012.8	1007.4	1002.5	1013.2	1013.2	1013.3
1986	1009.2	1017.9	997.8	1018.7	1015.9	1010.4	1013.3	1017.7	1010.2	996.1	1001.6	1012.7	1010.1
1987	1010.7	1013.4	1020.3	1013.2	1016.7	1019.8	1008.7	1013.9	1011.2	1007.5	1008.1	1006.4	1012.5
1988	1004.6	1016.4	1010.4	1012.0	1019.5	1009.9	1013.7	1013.5	1006.3	1006.9	1004.6	996.9	1009.6
1989	995.5	993.4	1000.6	1015.7	1009.2	1011.0	1006.7	1009.2	1002.8	1005.9	1006.2	1002.1	1004.9
1990	1005.7	990.1	995.2	1000.7	1009.7	1017.2	1015.9	1014.1	1012.0	1004.3	1008.9	994.3	1005.7
1991	1001.0	1010.1	1015.0	1011.2	1013.4	1016.0	1011.6	1005.3	1006.9	1010.3	1005.4	993.4	1008.3
1992	992.0	1000.5	998.7	1017.5	1006.3	1011.7	1009.4	1011.0	1017.2	1012.6	1008.5	997.6	1006.9
1993	986.6	997.9	1005.8	1014.3	1021.5	1016.9	1018.7	1017.5	1013.7	1011.3	1009.4	1002.9	1009.7
1994	1005.5	1014.4	998.5	1009.9	1017.7	1003.8	1008.8	1005.9	1007.7	1003.7	1005.2	994.2	1006.3
1995	1002.2	992.5	1004.6	1010.8	1018.8	1012.7	1006.2	1006.5	1007.4	1011.1	1013.0	1008.5	1007.9
1996	1009.5	1008.1	1014.8	1017.8	1018.0	1013.3	1009.9	1012.2	1013.2	1003.5	993.9	1015.1	1010.8
1997	998.2	1001.5	1005.9	1007.3	1020.1	1017.0	1017.7	1010.1	1003.5	1008.3	1014.0	1004.4	1009.0
1998	1012.4	1009.0	1009.8	1021.5	1013.6	1021.0	1014.6	1013.9	1018.7	1008.1	1013.2	1000.2	1013.0
1999	1005.7	1001.4	1016.9	1013.1	1020.4	1007.7	1007.4	1012.8	1005.6	1009.7	998.2	997.8	1008.1
2000	992.0	998.6	1002.3	1013.0	1010.3	1012.3	1013.0	1011.0	1009.4	1008.5	1013.0	1009.1	1007.7
2001	1005.6	1010.0	1015.1	1013.1	1014.1	1015.0	1011.6	1013.0	1011.2	1006.2	996.7	1010.0	1010.1
2002	997.8	995.9	1006.5	1012.6	1020.9	1011.1	1011.0	1014.1	1011.9	1018.4	1017.6	1016.7	1011.2
2003	1006.0	1005.6	1002.7	1016.8	1014.1	1014.9	1014.4	1015.9	1003.8	1008.6	1009.8	1003.2	1009.6
2004	1008.3	1006.9	1013.8	1014.7	1017.4	1013.7	1012.5	1015.4	1007.1	1010.6	1002.9	987.3	1009.2
2005	995.8	1005.1	1014.7	1016.3	1013.6	1014.8	1011.6	1008.5	999.3	1007.9	1001.1	1011.8	1008.4
2006	1003.1	1007.6	1017.4	1009.5	1017.3	1007.9	1009.9	1013.4	1008.1	1014.6	998.0	993.9	1008.4
2007	992.5	1015.9	999.9	1004.2	1014.8	1014.2	1013.9	1008.1	1005.9	1000.3	1002.0	1000.0	1006.0
2008	1000.5	1000.4	1006.3	1019.9	1021.3	1014.7	1014.8	1010.7	1010.5	1004.0	1001.7	1003.2	1009.0
2009	1002.3	1011.4	1007.0	1014.3	1013.8	1015.6	1016.2	1016.0	998.2	1005.7	1004.7	1017.2	1010.2
2010	1009.8	1020.3	1009.3	1013.9	1019.7	1012.7	1011.6	1013.7	1014.9	1006.2	1013.2	1012.1	1013.1
2011	1007.5	1010.0	993.8	1000.7	1017.1	1017.8	1013.6	1015.4	1006.2	1003.6	1001.5	989.4	1006.4
2012	1009.8	997.6	1004.2	1011.1	1011.2	1015.1	1008.4	1009.8	1002.6	1011.5	1008.5	1014.2	1008.7
1978–2009													
Mean	1002.8	1006.0	1008.4	1013.5	1016.3	1013.2	1012.3	1011.8	1008.5	1007.7	1005.5	1004.2	1009.2
σ	7.3	7.6	7.1	5.0	3.9	3.7	3.3	3.6	4.5	4.8	6.2	8.0	2.1
Max	1016.2	1017.9	1020.3	1022.9	1021.5	1021.0	1018.7	1017.7	1018.7	1018.4	1017.6	1017.2	1013.3
Min	986.6	990.1	995.2	1000.7	1006.3	1003.8	1006.2	1002.0	999.2	996.1	993.7	987.3	1004.9
1978–2012													
Mean	1003.3	1006.3	1007.9	1013.1	1016.3	1013.4	1012.2	1011.9	1008.6	1007.5	1005.6	1004.0	1009.2
σ	7.1	7.7	7.1	5.2	3.9	3.6	3.2	3.5	4.5	4.6	6.1	8.1	2.2

Italics mark calculated values (see Chapter 5.1) in the period, January 1978 – June 1978, based on data from Svalbard Airport and interpolated values from the set of reanalyses; in period July 1981 – July 1982 based on data of M. Sobik.

Table 18.4. Maximum monthly and annual, as well as multiannual maximum monthly values of atmospheric pressure reduced to sea level (from 8 term observations) [hPa]

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual max
1978	-	-	-	-	-	-	1023.9	1027.4	1027.7	1024.5	1029.9	1038.2	1038.2
1979	1038.1	1031.8	1042.8	1041.6	1027.0	1025.1	1025.4	1026.9	1022.5	1033.0	1028.8	1024.8	1042.8
1980	1037.0	1029.8	1039.9	1037.3	1035.0	1022.3	1022.3	1020.9	1021.2	1020.0	1024.6	1024.5	1039.9
1981	1019.5	1039.6	1031.1	1023.7	1030.7	1024.7	-	-	-	-	-	-	1039.6
1982	-	-	-	-	-	-	-	-	1031.5	1028.7	1019.4	1024.5	1031.5
1983	1017.6	1024.5	1023.4	1031.9	1033.8	1023.4	1022.9	1015.7	1025.5	1016.5	1032.8	1031.3	1033.8
1984	1026.8	1026.9	1042.4	1028.4	1022.6	1029.8	1025.2	1019.5	1029.6	1022.8	1026.0	1028.2	1042.4
1985	1035.7	1038.6	1031.2	1023.4	1031.1	1026.1	1028.1	1022.4	1022.1	1018.3	1036.7	1035.4	1038.6
1986	1025.4	1034.7	1018.6	1030.0	1035.1	1019.0	1019.9	1027.5	1021.1	1012.3	1022.4	1035.7	1035.7
1987	1029.6	1027.7	1037.8	1033.3	1018.0	1025.0	1019.0	1029.7	1023.0	1039.2	1020.6	1022.1	1039.2
1988	1029.3	1034.0	1029.1	1022.5	1027.5	1021.3	1024.1	1021.7	1019.8	1026.3	1016.1	1016.3	1034.0
1989	1017.5	1017.3	1023.2	1028.8	1028.5	1025.9	1016.5	1020.3	1016.4	1021.1	1020.6	1023.1	1028.8
1990	1028.1	1022.0	1012.7	1018.7	1019.6	1031.5	1029.6	1026.4	1025.0	1024.3	1025.5	1021.2	1031.5
1991	1023.2	1026.0	1034.9	1032.3	1026.4	1028.7	1025.4	1019.6	1022.4	1037.5	1023.3	1021.1	1037.5
1992	1023.1	1019.6	1032.7	1038.8	1026.7	1029.8	1022.2	1024.4	1034.3	1029.5	1026.7	1028.9	1038.8
1993	1013.0	1033.5	1040.0	1041.4	1040.6	1027.2	1028.8	1028.4	1029.1	1026.4	1031.5	1027.2	1041.4
1994	1022.9	1027.7	1013.3	1021.5	1033.6	1015.7	1022.1	1020.1	1025.3	1025.1	1033.4	1020.6	1033.6
1995	1020.9	1007.3	1035.7	1039.6	1030.2	1029.6	1024.0	1016.0	1026.8	1021.5	1028.6	1029.7	1039.6
1996	1031.5	1024.3	1039.4	1044.2	1026.6	1025.3	1017.1	1022.8	1031.0	1025.9	1018.7	1040.7	1044.2
1997	1018.5	1016.4	1036.5	1034.3	1031.1	1032.3	1028.9	1025.8	1023.1	1023.9	1029.8	1030.1	1036.5
1998	1025.4	1030.0	1031.6	1033.2	1027.0	1034.9	1023.4	1028.7	1031.6	1029.6	1036.9	1021.3	1036.9
1999	1020.0	1016.6	1040.0	1033.0	1036.3	1023.5	1019.5	1021.1	1027.3	1024.8	1018.3	1014.0	1040.0
2000	1015.8	1021.9	1018.6	1035.0	1026.6	1029.8	1025.1	1025.4	1022.1	1025.7	1028.0	1021.2	1035.0
2001	1035.6	1034.3	1035.4	1027.2	1027.1	1027.5	1025.8	1025.6	1026.4	1023.2	1018.2	1030.2	1035.6
2002	1022.3	1020.8	1032.5	1027.1	1033.2	1023.7	1024.9	1023.6	1028.5	1036.1	1032.3	1034.9	1036.1
2003	1027.2	1023.0	1023.6	1034.5	1030.2	1025.7	1021.6	1026.7	1021.1	1036.4	1031.9	1024.4	1036.4
2004	1027.0	1028.7	1036.7	1036.2	1032.3	1027.5	1024.0	1025.5	1026.5	1030.4	1023.0	1014.3	1036.7
2005	1020.7	1036.8	1036.3	1042.4	1028.1	1032.9	1021.3	1025.7	1016.6	1031.2	1026.7	1028.5	1042.4
2006	1027.7	1025.0	1032.0	1022.8	1029.6	1027.6	1026.6	1024.1	1025.4	1033.2	1015.4	1025.3	1033.2
2007	1018.1	1040.1	1018.3	1026.9	1028.0	1032.2	1025.8	1019.1	1027.5	1026.1	1027.3	1031.3	1040.1
2008	1027.2	1035.7	1023.7	1039.6	1035.0	1029.9	1030.2	1025.2	1031.0	1023.0	1025.1	1021.7	1039.6
2009	1025.8	1031.0	1023.0	1025.8	1033.7	1026.4	1028.8	1027.6	1020.7	1024.5	1023.0	1037.8	1037.8
2010	1028.7	1033.6	1027.2	1028.8	1035.6	1018.9	1019.6	1022.6	1023.7	1017.7	1046.8	1037.8	1046.8
2011	1027.8	1032.8	1012.0	1031.3	1035.9	1034.4	1024.1	1023.8	1018.9	1022.9	1026.9	1010.3	1035.9
2012	1031.8	1021.4	1022.4	1023.8	1027.6	1026.2	1026.3	1024.1	1021.6	1035.7	1032.7	1030.8	1035.7
1978–2009													
Mean	1025.0	1027.5	1030.5	1031.8	1029.7	1026.8	1024.1	1023.8	1025.2	1026.5	1025.9	1026.7	1037.5
σ	6.4	7.8	8.7	7.0	4.8	4.2	3.6	3.7	4.4	6.2	5.8	6.9	3.5
Max	1038.1	1040.1	1042.8	1044.2	1040.6	1034.9	1030.2	1029.7	1034.3	1039.2	1036.9	1040.7	1044.2
Min	1013.0	1007.3	1012.7	1018.7	1018.0	1015.7	1016.5	1015.7	1016.4	1012.3	1015.4	1014.0	1028.8
1978–2012													
Mean	1025.4	1027.7	1029.6	1031.5	1030.0	1026.8	1024.0	1023.8	1024.9	1026.4	1026.7	1026.7	1037.7
σ	6.3	7.7	9.0	6.8	4.9	4.5	3.5	3.5	4.4	6.3	6.7	7.4	3.8

Table 18.5. Minimum monthly and annual, as well as multiannual minimum monthly values of atmospheric pressure reduced to sea level (from 8 term observations) [hPa]

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual min
1978	-	-	-	-	-	-	1004.6	1000.1	994.3	957.6	963.9	985.7	957.6
1979	996.1	983.0	966.3	1000.4	992.4	997.5	998.0	998.4	982.5	981.4	972.3	955.9	955.9
1980	981.4	987.6	998.5	983.0	1003.8	995.6	1003.0	996.0	983.4	982.1	996.2	967.2	967.2
1981	977.1	977.8	991.0	987.2	996.3	994.5	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	986.5	998.3	969.7	963.6	-
1983	966.1	980.2	975.5	996.3	993.1	988.7	995.9	981.5	983.2	979.4	981.0	972.8	966.1
1984	957.6	975.7	996.2	978.4	993.6	991.2	987.9	985.8	985.5	990.7	994.1	963.9	957.6
1985	984.6	986.5	986.7	985.4	984.4	1002.8	995.9	992.4	985.4	975.9	988.9	990.3	975.9
1986	990.7	991.9	968.2	989.5	999.3	992.6	1001.0	993.6	992.2	956.0	983.4	988.1	956.0
1987	970.4	987.3	985.8	984.1	996.6	1008.0	991.5	1000.8	991.4	980.1	978.7	959.1	959.1
1988	982.9	988.9	984.3	994.1	1004.3	987.6	995.7	999.3	984.9	975.1	980.1	957.3	957.3
1989	956.3	965.3	974.6	992.9	995.4	992.6	995.2	995.4	967.5	996.5	979.6	974.1	956.3
1990	978.3	965.2	976.0	953.3	998.1	1000.0	1001.3	992.8	993.5	985.5	992.6	964.2	953.3
1991	965.4	990.6	993.2	985.5	999.5	992.5	994.2	983.0	984.7	986.0	989.6	959.0	959.0
1992	962.4	973.9	974.1	999.4	980.3	981.3	994.9	996.1	1002.2	997.9	975.3	974.5	962.4
1993	949.4	958.3	981.1	985.4	992.7	1000.1	1010.3	1005.4	996.5	987.6	989.7	972.2	949.4
1994	972.0	992.4	969.9	988.3	991.0	983.9	997.0	978.8	990.3	978.9	970.5	958.5	958.5
1995	966.5	967.1	963.4	977.4	996.8	994.9	979.8	990.6	980.3	995.7	980.4	967.5	963.4
1996	975.5	973.7	973.8	997.2	1006.3	994.2	1003.0	997.1	990.3	968.8	955.8	988.3	955.8
1997	961.7	968.3	958.0	981.7	1006.5	999.6	1006.1	984.4	987.2	985.2	979.0	966.7	958.0
1998	995.7	985.4	973.6	1001.9	996.6	1006.0	1004.7	993.5	995.2	992.3	982.2	970.9	970.9
1999	982.0	966.3	999.4	987.7	995.8	981.1	990.8	993.4	967.2	990.4	975.8	981.0	966.3
2000	968.5	974.8	968.1	976.9	986.0	1001.3	1001.2	1000.3	989.6	985.4	1002.0	991.9	968.1
2001	977.1	986.4	988.0	998.7	984.8	1003.8	997.1	994.6	992.7	986.8	967.6	982.7	967.6
2002	959.2	975.8	988.0	985.1	1005.6	981.3	994.9	1001.2	991.1	996.2	1004.8	988.3	959.2
2003	986.2	980.1	965.1	988.0	998.7	1008.2	1003.3	1003.1	979.7	964.4	983.5	979.7	964.4
2004	986.5	977.8	992.9	991.9	999.9	1000.7	997.8	995.7	988.6	978.8	966.5	963.5	963.5
2005	972.9	978.1	997.3	996.1	987.9	999.5	991.8	981.4	980.5	980.6	976.5	987.7	972.9
2006	965.6	975.6	997.6	994.8	1006.3	980.9	997.6	999.7	985.8	995.6	979.3	967.3	965.6
2007	961.9	984.4	968.9	981.5	997.4	992.3	1001.6	995.4	993.5	977.1	962.5	951.8	951.8
2008	966.0	976.4	991.5	984.6	1000.1	1002.8	993.2	993.5	987.5	980.8	971.8	974.1	966.0
2009	977.4	983.7	993.8	994.0	998.6	992.2	1002.3	994.3	974.2	982.8	977.7	985.8	974.2
2010	978.8	999.0	971.4	986.9	1005.4	1001.4	1000.2	1003.1	1005.2	977.7	992.9	985.8	971.4
2011	983.5	971.4	962.3	977.1	1000.0	997.6	994.0	991.3	989.6	990.0	965.7	959.3	959.3
2012	976.1	976.7	976.2	996.2	983.0	1001.7	993.6	995.5	983.0	996.7	985.2	984.3	976.1
1978–2009													
Mean	973.1	978.6	981.4	988.0	996.3	994.9	997.7	993.9	986.7	982.9	979.7	972.7	962.0
σ	11.9	8.9	12.3	9.6	6.8	8.0	6.1	6.8	7.7	10.9	11.4	11.8	6.7
Max	996.1	992.4	999.4	1001.9	1006.5	1008.2	1010.3	1005.4	1002.2	998.3	1004.8	991.9	975.9
Min	949.4	958.3	958.0	953.3	980.3	980.9	979.8	978.8	967.2	956.0	955.8	955.9	949.4
1978–2012													
Mean	973.7	979.0	980.3	987.9	996.3	995.4	997.6	994.2	987.2	983.4	979.8	973.0	962.6
σ	11.5	9.3	12.3	9.4	7.1	7.8	5.9	6.7	8.1	10.7	11.4	11.9	7.0

Table 18.6. Frequency of occurrence [%] of wind from a given direction (Dw) and calms, in particular months and years. V.w. – variable wind, n – number of observations

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1978	N	-	-	-	-	-	-	2.4	0.8	8.3	6.5	2.5	1.2
	NE	-	-	-	-	-	-	0.8	6.3	9.2	27.4	7.1	4.1
	E	-	-	-	-	-	-	30.9	36.2	33.3	27.4	38.9	15.4
	SE	-	-	-	-	-	-	2.4	1.6	2.5	4.0	3.3	7.3
	S	-	-	-	-	-	-	4.9	3.9	5.0	6.5	5.4	4.5
	SW	-	-	-	-	-	-	2.4	3.9	3.3	1.6	14.2	25.6
	W	-	-	-	-	-	-	16.3	18.1	10.8	4.0	21.8	26.0
	NW	-	-	-	-	-	-	0.8	1.6	4.2	4.0	4.2	7.7
	V.w.	-	-	-	-	-	-	0.0	2.4	0.8	0.0	0.4	0.0
	Calm	-	-	-	-	-	-	39.0	25.2	22.5	18.5	2.5	8.9
n	-	-	-	-	-	-	123	127	120	124	239	246	
1979	N	1.6	0.0	0.0	0.0	0.0	0.8	0.0	3.3	3.1	16.0	8.3	4.8
	NE	13.4	14.7	11.7	6.2	14.5	1.7	5.4	35.2	25.8	27.2	40.0	42.7
	E	55.5	42.4	75.8	57.7	45.2	42.3	55.9	25.4	46.1	20.0	26.7	25.0
	SE	0.0	2.2	1.6	3.7	8.1	5.4	3.6	0.8	0.8	1.6	0.0	0.8
	S	0.0	1.3	1.6	1.2	0.4	0.0	5.4	3.3	3.1	9.6	1.7	0.8
	SW	0.0	0.4	0.0	0.0	5.6	2.9	4.5	15.6	1.6	4.0	0.0	4.8
	W	6.5	13.4	0.0	2.5	8.9	8.8	14.4	9.0	9.4	10.4	11.7	12.1
	NW	7.7	7.1	0.0	2.1	7.7	10.9	3.6	3.3	1.6	4.0	5.8	1.6
	V.w.	0.4	0.0	0.0	0.0	0.8	10.5	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	15.0	18.3	9.3	26.6	8.9	16.7	7.2	4.1	8.6	7.2	5.8	7.3
n	247	224	248	241	248	239	111	122	128	125	120	124	
1980	N	4.8	2.6	1.6	0.0	2.4	0.8	1.4	1.6	2.5	19.4	3.3	6.5
	NE	38.7	19.8	35.5	24.2	15.3	11.7	17.8	17.7	31.0	37.9	51.3	51.6
	E	33.9	31.9	41.9	51.7	32.3	39.2	32.2	31.9	28.0	16.5	26.3	34.7
	SE	0.0	2.6	1.6	0.0	2.4	0.0	4.8	2.0	3.3	0.4	1.3	0.0
	S	2.4	0.0	1.6	1.7	2.4	0.8	5.5	7.7	3.8	1.6	1.7	0.0
	SW	2.4	7.8	1.6	9.2	4.0	10.8	11.0	12.9	4.6	1.6	1.3	0.0
	W	9.7	23.3	6.5	7.5	16.1	20.8	21.9	21.0	14.2	5.2	4.6	2.8
	NW	4.8	6.0	2.4	2.5	4.0	7.5	2.1	3.2	4.6	7.3	2.5	1.6
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	3.2	6.0	7.3	3.3	21.0	8.3	3.4	2.0	7.9	10.1	7.9	2.8
n	124	116	124	120	124	120	146	248	239	248	240	248	
1981	N	6.5	5.4	2.4	0.4	1.2	5.8	0.5	-	-	-	-	-
	NE	32.7	34.4	39.5	22.9	14.9	16.7	20.6	-	-	-	-	-
	E	35.5	33.5	44.8	62.1	30.2	32.1	28.7	-	-	-	-	-
	SE	1.6	2.7	0.0	2.5	1.2	2.1	3.8	-	-	-	-	-
	S	1.2	2.2	0.0	0.0	3.6	5.0	5.3	-	-	-	-	-
	SW	0.8	4.9	0.4	2.1	10.1	9.6	15.8	-	-	-	-	-
	W	8.9	11.6	4.4	4.2	29.4	20.8	19.1	-	-	-	-	-
	NW	6.5	4.9	2.4	0.4	3.6	2.5	2.4	-	-	-	-	-
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
	Calm	6.5	0.4	6.0	5.4	5.6	5.4	3.8	-	-	-	-	-
n	248	224	248	240	248	240	209	-	-	-	-	-	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1982	N	-	-	-	-	-	-	-	-	5.0	0.8	2.5	2.0
	NE	-	-	-	-	-	-	-	-	30.8	33.1	40.0	8.9
	E	-	-	-	-	-	-	-	-	35.0	35.1	37.1	46.8
	SE	-	-	-	-	-	-	-	-	0.8	0.0	0.8	9.7
	S	-	-	-	-	-	-	-	-	3.3	0.8	0.4	11.3
	SW	-	-	-	-	-	-	-	-	2.5	1.6	0.0	0.8
	W	-	-	-	-	-	-	-	-	2.5	5.6	4.6	4.8
	NW	-	-	-	-	-	-	-	-	6.7	10.9	6.7	6.9
	V.w.	-	-	-	-	-	-	-	-	0.0	4.0	0.8	2.0
	Calm	-	-	-	-	-	-	-	-	13.3	8.1	7.1	6.9
n	-	-	-	-	-	-	-	-	120	248	240	248	
1983	N	0.8	1.8	2.0	1.7	0.4	2.1	0.4	1.6	1.3	6.5	8.3	2.8
	NE	16.5	7.1	11.3	3.8	1.6	4.2	0.8	6.0	11.7	23.0	32.5	27.0
	E	68.1	55.8	58.9	66.3	50.8	23.3	38.3	37.9	63.8	44.0	44.6	52.8
	SE	2.0	3.1	2.4	7.1	7.7	10.0	19.8	6.9	2.9	2.8	0.4	2.4
	S	3.6	8.9	5.2	0.8	1.2	0.4	4.4	3.6	0.0	0.0	0.0	0.4
	SW	1.2	0.9	1.6	0.4	2.4	7.5	6.9	4.8	2.9	1.2	0.4	0.4
	W	2.0	6.3	6.0	6.7	10.1	23.3	18.1	16.1	5.4	3.2	2.5	3.6
	NW	2.0	12.1	4.4	6.7	5.6	15.0	2.8	13.3	7.9	4.8	0.4	2.0
	V.w.	1.6	0.9	0.4	0.0	1.6	4.6	2.4	0.8	0.0	2.4	0.4	0.0
	Calm	2.0	3.1	7.7	6.7	18.5	9.6	6.0	8.9	4.2	12.1	10.4	8.5
n	248	224	248	240	248	240	248	248	240	248	240	248	
1984	N	3.6	2.2	2.8	1.3	1.2	3.8	0.8	2.8	2.5	12.1	7.5	2.4
	NE	21.4	15.1	10.9	12.1	4.8	8.8	1.6	10.5	18.3	37.1	37.1	23.4
	E	46.0	35.3	41.9	59.2	41.9	38.3	50.0	29.8	27.1	26.6	22.9	30.6
	SE	1.6	0.4	0.8	3.3	0.4	2.9	9.7	8.5	1.7	0.4	4.6	6.0
	S	1.6	8.2	2.4	2.5	0.8	2.5	3.2	1.6	4.2	3.2	3.8	5.2
	SW	2.8	5.2	5.6	3.8	5.6	9.6	14.5	13.7	5.0	0.8	2.5	3.2
	W	4.0	21.6	21.0	5.8	26.2	23.3	11.7	15.7	11.3	3.2	13.3	16.9
	NW	1.6	9.9	6.9	6.3	4.8	5.8	2.4	2.4	6.7	4.8	2.5	2.8
	V.w.	0.4	0.4	1.2	0.0	0.0	1.7	2.0	0.4	0.0	0.0	0.0	0.0
	Calm	16.9	1.7	6.5	5.8	14.1	3.3	4.0	14.5	23.3	11.7	5.8	9.3
n	248	232	248	240	248	240	248	248	240	248	240	248	
1985	N	7.3	0.4	2.8	3.3	2.4	0.0	0.0	0.8	2.5	2.0	1.3	2.8
	NE	52.0	32.1	34.3	32.1	12.1	1.7	3.6	13.3	18.3	23.0	43.3	41.9
	E	11.7	32.1	17.7	32.9	31.9	14.6	49.6	53.2	36.3	35.5	26.7	48.8
	SE	0.0	2.2	1.2	0.0	10.9	8.3	2.8	3.6	4.2	0.0	0.0	0.4
	S	1.6	4.9	4.0	1.7	4.8	0.4	0.0	1.2	0.8	0.8	2.9	0.0
	SW	2.8	3.1	5.6	0.8	1.6	1.7	3.6	1.6	2.5	0.8	3.3	0.0
	W	8.5	13.4	19.0	6.3	16.1	28.3	19.8	10.1	10.8	8.1	13.3	0.8
	NW	6.9	4.5	1.2	1.3	4.0	5.4	4.8	1.6	3.8	10.5	3.8	0.4
	V.w.	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	Calm	9.3	7.1	14.1	21.3	16.1	39.6	15.3	14.5	20.8	19.4	5.4	4.8
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1986	N	1.6	3.6	1.6	1.3	0.0	1.7	0.4	2.0	8.3	7.7	5.4	5.2
	NE	10.9	13.4	5.2	8.8	14.1	6.7	14.5	4.8	19.6	18.1	44.2	27.8
	E	58.5	43.8	49.6	49.2	61.3	25.4	43.5	34.3	34.2	39.5	27.9	46.4
	SE	0.4	0.9	2.8	1.3	0.4	6.7	7.3	4.8	2.9	3.6	2.5	2.4
	S	5.2	0.9	3.2	1.3	0.4	7.9	4.4	6.9	6.7	2.8	3.3	3.2
	SW	2.8	0.9	4.0	1.3	1.2	15.8	10.5	17.7	3.3	2.0	0.8	2.0
	W	5.6	11.6	16.1	12.9	8.9	9.6	8.5	13.3	9.6	17.3	6.3	5.2
	NW	2.8	16.5	10.1	9.6	0.8	5.4	0.4	0.8	6.7	6.0	5.4	1.6
	V.w.	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	12.1	8.5	7.3	14.6	12.9	19.6	10.5	15.3	8.8	2.8	4.2	6.0
n	248	224	248	240	248	240	248	248	240	248	240	248	
1987	N	1.6	3.1	0.4	0.0	2.0	2.5	2.0	2.8	1.3	3.2	3.8	1.2
	NE	20.6	21.0	10.1	14.6	8.5	5.0	5.6	24.2	31.3	40.7	11.3	14.1
	E	37.1	67.4	50.8	60.0	49.6	35.4	21.8	27.0	39.2	26.6	45.8	70.6
	SE	5.6	0.9	0.4	6.7	1.2	5.0	3.2	2.4	0.8	1.2	1.7	1.2
	S	3.2	2.2	6.0	7.5	2.4	3.8	3.6	2.8	0.4	1.2	4.6	0.4
	SW	8.1	0.9	10.1	1.7	2.0	11.3	21.8	12.1	1.3	0.8	2.5	1.2
	W	19.8	0.9	19.4	9.2	25.4	22.5	32.3	18.5	14.6	16.1	15.8	3.6
	NW	3.2	1.3	2.8	0.4	5.6	5.8	3.6	2.8	1.7	1.2	5.8	2.4
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	0.8	2.2	0.0	0.0	3.2	8.8	6.0	7.3	9.6	8.9	8.8	5.2
n	248	224	248	240	248	240	248	248	240	248	240	248	
1988	N	1.6	0.4	0.4	0.0	1.2	0.8	0.0	0.0	2.9	0.8	0.4	1.6
	NE	13.7	15.5	10.5	12.1	13.7	5.0	8.1	5.6	20.4	17.7	6.7	2.4
	E	52.4	59.9	72.2	58.8	38.7	22.5	44.8	49.2	32.9	51.2	71.7	65.3
	SE	1.2	3.4	0.0	0.8	4.0	3.8	4.8	3.2	2.1	0.8	0.4	1.2
	S	4.0	3.4	0.4	1.3	7.3	7.1	4.0	3.2	2.1	1.6	0.4	1.6
	SW	3.2	2.2	0.8	0.4	2.8	14.6	15.3	6.9	4.6	0.8	0.4	2.0
	W	12.9	5.6	6.5	16.3	18.1	32.5	18.5	10.5	15.8	8.1	5.4	4.8
	NW	2.0	1.3	2.4	2.5	4.8	3.3	1.2	4.4	3.3	10.1	2.9	13.3
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	0.4	0.4	0.0	0.4
	Calm	8.9	8.2	6.9	7.9	9.3	10.4	2.8	15.3	15.4	8.5	11.7	7.3
n	248	232	248	240	248	240	248	248	240	248	240	248	
1989	N	0.0	3.6	0.4	0.4	2.0	1.3	0.8	2.0	2.9	7.7	4.2	10.9
	NE	4.8	4.0	4.0	2.9	0.4	2.1	2.8	7.7	19.6	33.9	21.3	33.9
	E	69.8	67.0	70.6	60.4	62.5	25.8	28.2	35.5	37.1	33.9	44.6	31.9
	SE	1.2	2.7	1.2	1.7	5.6	4.6	2.0	3.2	1.7	0.8	0.8	1.2
	S	4.4	3.1	2.4	0.4	0.4	6.7	7.3	3.6	11.7	3.2	5.0	1.6
	SW	1.2	0.0	0.4	0.4	0.8	1.7	16.9	12.9	7.1	0.8	2.9	1.2
	W	9.7	5.8	8.5	21.3	11.7	41.7	33.1	18.1	10.4	8.5	13.3	8.9
	NW	1.2	7.6	4.8	6.7	4.4	7.1	1.6	4.0	2.9	3.2	2.9	7.3
	V.w.	0.0	0.0	0.0	0.0	0.8	0.0	0.4	0.0	0.0	0.0	0.0	1.6
	Calm	7.7	6.3	7.7	5.8	11.3	9.2	6.9	12.9	6.7	8.1	5.0	1.6
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
1990	N	0.8	1.8	3.6	2.9	8.5	0.8	0.4	1.6	0.4	9.3	18.3	5.6
	NE	18.1	27.7	30.2	25.0	15.3	15.8	11.7	24.6	17.9	32.7	45.0	29.8
	E	69.4	63.8	51.6	28.3	19.8	21.3	33.9	38.7	48.3	32.3	20.0	37.9
	SE	4.4	0.0	0.4	1.7	2.8	1.3	3.6	0.8	2.5	0.4	0.8	1.6
	S	2.0	1.3	1.6	2.5	4.0	2.9	4.0	2.0	8.3	0.8	0.4	3.2
	SW	2.0	0.0	4.4	6.3	2.0	19.2	22.6	8.5	5.0	2.8	0.4	3.6
	W	2.0	1.8	3.2	22.5	23.0	26.3	12.5	14.9	7.1	10.1	2.5	10.5
	NW	0.4	0.0	2.8	6.3	12.9	2.9	1.6	3.2	1.3	7.7	8.3	5.6
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	0.8	3.6	2.0	4.6	11.7	9.6	9.7	5.6	9.2	4.0	4.2	2.0
n	248	224	248	240	248	240	248	248	240	248	240	248	
1991	N	3.6	4.0	7.7	4.6	4.8	0.4	0.8	0.4	7.9	12.5	8.8	12.5
	NE	18.5	23.2	23.4	29.2	11.3	9.2	4.8	16.9	22.5	35.9	16.3	31.5
	E	51.2	25.9	37.9	41.3	46.0	46.3	31.9	36.7	31.3	28.2	52.5	21.4
	SE	0.4	0.9	0.4	0.0	1.6	2.9	3.6	0.8	1.7	1.6	2.1	2.8
	S	2.8	0.9	3.2	0.4	6.0	4.6	8.9	7.7	0.8	0.8	0.4	3.6
	SW	3.2	10.3	4.8	6.7	7.3	12.9	9.7	12.9	0.8	1.6	1.3	3.2
	W	14.5	28.1	16.1	13.3	16.1	11.7	24.2	17.3	10.8	5.2	4.2	5.6
	NW	4.0	3.6	3.2	2.9	2.4	2.1	6.5	1.2	3.8	6.9	9.6	10.5
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.4	8.8	2.8	3.3	4.4
	Calm	1.6	3.1	3.2	1.7	4.4	10.0	9.3	3.6	11.7	4.4	1.7	4.4
n	248	224	248	240	248	240	248	248	240	248	240	248	
1992	N	1.2	3.9	1.6	0.0	3.2	2.5	1.2	0.8	0.0	19.8	5.4	4.4
	NE	18.1	11.6	17.3	20.4	13.3	7.1	4.0	22.2	8.3	30.2	22.1	25.8
	E	47.6	61.6	59.3	70.8	28.2	38.8	15.3	39.5	42.5	29.8	50.0	54.4
	SE	0.4	0.4	0.4	1.7	2.4	3.3	7.3	2.4	1.7	0.4	0.0	0.8
	S	1.2	2.2	0.4	0.4	3.2	5.4	4.4	3.2	1.7	3.6	3.8	0.8
	SW	2.8	0.4	1.6	0.0	3.2	14.2	25.4	8.5	9.2	1.6	3.8	0.8
	W	12.9	3.0	6.0	1.3	25.0	21.7	25.8	14.5	19.2	5.2	6.3	8.1
	NW	3.2	3.4	8.5	0.8	12.5	4.2	7.7	2.4	5.8	6.0	4.6	3.6
	V.w.	3.6	3.0	0.4	0.8	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	8.9	10.3	4.4	3.8	7.7	2.5	8.9	6.5	11.7	3.2	4.2	1.2
n	248	232	248	240	248	240	248	248	240	248	240	248	
1993	N	2.8	3.1	2.0	3.3	1.6	2.9	0.0	0.4	3.3	6.0	2.9	3.2
	NE	21.0	16.5	22.2	11.3	21.4	6.7	4.0	4.0	6.3	35.9	3.8	21.4
	E	55.2	48.2	58.9	53.8	50.0	45.0	44.8	69.4	34.6	25.0	20.0	60.5
	SE	1.2	2.2	0.4	4.6	2.0	2.9	6.0	2.8	2.5	1.6	2.5	0.0
	S	2.4	1.8	1.6	2.1	2.4	2.5	4.4	5.2	5.4	1.2	9.6	1.6
	SW	1.6	5.8	2.4	2.1	2.0	12.1	24.6	7.3	6.7	1.6	10.0	1.2
	W	6.5	10.7	8.1	10.0	8.9	16.3	8.5	6.5	10.4	8.1	37.1	3.6
	NW	6.9	7.1	2.4	9.6	6.9	3.8	0.0	0.0	9.6	12.9	7.5	4.4
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.8	6.7	3.6	2.5	0.8
	Calm	2.4	4.5	2.0	3.3	4.8	7.9	4.4	3.6	14.6	4.0	4.2	3.2
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1994	N	0.0	5.8	0.0	0.0	2.4	0.4	0.0	2.0	2.9	14.5	2.1	4.8
	NE	22.2	7.6	8.5	4.6	5.6	5.8	2.0	2.0	19.6	23.4	25.8	20.2
	E	67.7	38.8	73.8	77.1	51.6	45.4	16.1	12.1	38.8	26.6	57.1	48.4
	SE	0.0	2.7	3.6	2.5	3.6	5.4	3.2	2.4	0.8	0.4	0.8	2.4
	S	0.0	4.0	5.2	4.6	0.8	5.0	2.4	3.6	1.3	0.4	2.1	0.8
	SW	0.0	2.2	2.4	1.3	4.4	7.1	24.6	15.7	4.2	1.2	1.3	1.2
	W	0.8	14.3	5.6	3.8	14.1	17.9	24.2	31.9	14.2	6.0	3.3	8.1
	NW	0.8	12.9	0.0	0.4	7.3	4.6	8.9	14.5	3.8	12.9	2.5	4.8
	V.w.	1.2	1.3	0.8	1.3	0.4	0.4	8.9	5.2	0.8	1.2	0.0	0.0
	Calm	7.3	10.3	0.0	4.6	9.7	7.9	9.7	10.5	13.8	13.3	5.0	9.3
n	248	224	248	240	248	240	248	248	240	248	240	248	
1995	N	1.6	6.7	1.6	3.3	2.8	1.3	1.2	1.6	3.8	11.3	7.1	5.6
	NE	33.9	38.8	24.2	22.9	21.4	10.4	9.3	13.7	15.4	39.5	47.9	34.3
	E	54.8	45.1	58.5	42.9	35.1	39.6	35.5	47.6	37.1	25.8	35.4	26.6
	SE	0.0	0.0	4.0	2.5	0.8	3.8	5.2	5.2	4.2	0.8	0.4	0.4
	S	0.0	0.4	2.0	3.8	2.0	2.5	4.4	4.0	5.0	0.0	1.3	1.6
	SW	0.4	0.0	2.4	1.7	5.2	13.3	20.6	8.9	15.0	0.8	0.0	4.8
	W	2.4	0.9	2.8	6.7	19.0	17.5	18.5	12.9	12.9	9.7	2.9	21.8
	NW	3.6	4.0	2.0	5.8	5.6	5.4	1.6	2.0	1.7	7.3	3.8	4.4
	V.w.	0.0	1.8	0.0	0.0	0.8	0.4	0.8	0.0	0.0	0.0	0.0	0.0
	Calm	3.2	2.2	2.4	10.4	7.3	5.8	2.8	4.0	5.0	4.8	1.3	0.4
n	248	224	248	240	248	240	248	248	240	248	240	248	
1996	N	3.6	5.6	4.0	5.4	4.8	0.4	0.0	1.2	1.7	4.8	12.5	2.8
	NE	14.1	18.5	16.5	24.6	21.4	13.3	3.2	4.0	17.1	32.7	29.2	31.0
	E	31.9	40.1	36.7	46.3	39.5	59.6	28.2	35.1	33.3	38.7	24.2	37.9
	SE	0.4	1.7	0.0	0.4	1.6	2.1	3.2	0.8	0.8	0.4	0.4	0.0
	S	7.3	3.0	8.1	1.7	4.4	0.0	3.2	2.0	10.8	0.8	0.8	4.0
	SW	7.7	5.2	10.9	3.8	2.8	7.9	21.8	14.9	3.8	0.8	2.9	2.0
	W	26.6	15.1	19.0	11.3	16.1	8.8	23.8	23.4	12.1	7.7	11.3	8.5
	NW	6.0	5.2	1.2	2.1	4.8	0.8	2.4	4.8	4.6	4.0	9.6	4.8
	V.w.	0.0	0.4	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	2.4	5.2	3.6	4.2	4.4	6.7	14.1	13.7	15.8	10.1	9.2	8.9
n	248	232	248	240	248	240	248	248	240	248	240	248	
1997	N	4.8	3.1	0.8	4.6	3.2	3.3	0.8	0.8	3.3	7.7	7.5	5.6
	NE	21.8	25.4	29.4	18.8	19.8	5.0	4.8	12.1	21.3	54.8	22.1	15.3
	E	43.5	53.6	54.8	41.7	36.7	43.3	22.6	36.3	31.3	30.6	32.5	41.5
	SE	1.2	0.0	0.4	2.5	3.2	3.3	2.8	1.6	2.5	0.4	2.9	0.8
	S	2.8	0.0	1.6	4.2	6.5	2.1	3.6	6.9	3.3	0.8	2.9	2.0
	SW	4.0	2.7	0.4	1.7	5.2	10.8	30.2	10.1	2.5	2.0	5.8	4.8
	W	10.5	5.4	3.2	9.2	9.3	13.3	28.2	20.6	18.8	1.6	16.7	22.6
	NW	7.3	5.4	1.2	5.8	4.0	3.8	0.8	2.4	2.9	0.8	2.5	3.6
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	4.0	4.5	8.1	11.7	12.1	15.0	6.0	9.3	14.2	1.2	7.1	3.6
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1998	N	2.4	0.0	0.0	4.2	1.6	1.3	0.0	0.8	5.0	5.6	5.0	6.5
	NE	24.6	20.5	17.3	20.0	14.9	2.9	6.0	8.9	19.2	43.1	27.9	35.5
	E	60.1	76.8	64.1	55.8	45.2	46.7	52.4	57.7	37.9	38.7	34.2	41.9
	SE	1.2	0.0	1.6	0.0	0.0	0.8	4.4	2.4	0.4	0.0	4.6	0.0
	S	0.0	0.0	5.2	2.1	2.0	4.6	5.2	3.6	2.1	1.2	6.3	2.4
	SW	0.0	0.0	2.0	2.9	4.0	10.0	13.7	9.3	5.8	1.2	5.4	2.4
	W	6.9	0.9	5.6	5.4	15.3	22.1	8.5	10.1	15.0	8.1	11.3	7.7
	NW	2.8	0.0	0.0	1.3	6.9	1.3	0.0	1.2	4.2	1.2	2.9	2.4
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	2.4	1.8	4.0	8.3	10.1	10.4	9.7	6.0	10.4	0.8	2.5	1.2
n	248	224	248	240	248	240	248	248	240	248	240	248	
1999	N	4.8	1.3	2.0	6.7	2.4	1.7	0.4	0.0	0.8	4.8	4.6	8.9
	NE	38.7	49.1	44.8	23.3	17.7	3.8	5.6	4.4	12.1	32.7	31.3	47.2
	E	42.3	42.9	46.0	39.6	49.2	17.9	44.8	55.6	30.4	23.0	29.6	38.7
	SE	2.0	0.4	0.8	2.1	2.8	3.3	1.2	0.8	1.3	0.4	2.1	0.0
	S	2.8	0.0	2.0	2.1	2.4	11.7	2.0	2.4	7.1	2.0	6.7	0.0
	SW	0.8	1.8	1.6	3.8	8.5	29.6	14.5	4.0	7.1	0.0	10.0	0.4
	W	4.0	2.2	0.8	11.7	10.9	24.2	12.5	6.0	22.5	11.3	5.8	0.4
	NW	2.4	0.9	0.0	8.8	1.2	2.5	0.4	1.6	1.7	10.5	5.4	0.4
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	2.0	1.3	2.0	2.1	4.8	5.4	18.5	25.0	17.1	15.3	4.6	4.0
n	248	224	248	240	248	240	248	248	240	248	240	248	
2000	N	6.0	0.4	4.8	0.4	0.8	2.1	0.4	0.0	3.8	2.4	10.8	18.5
	NE	28.6	23.7	24.2	6.3	4.4	0.8	4.4	21.0	26.3	31.5	40.8	46.0
	E	52.4	71.1	59.3	75.8	63.3	30.4	31.0	39.5	18.3	23.0	24.6	12.9
	SE	0.0	0.9	0.4	0.4	0.8	4.2	4.4	2.0	0.0	0.4	0.0	0.4
	S	0.4	0.0	1.6	0.4	1.6	2.9	10.5	6.9	5.8	8.9	2.1	2.8
	SW	0.4	0.0	2.8	0.8	2.8	14.6	16.9	10.5	15.4	6.0	5.4	0.4
	W	5.6	0.9	2.8	7.5	11.3	24.2	23.4	11.7	20.0	14.5	10.0	8.1
	NW	1.6	0.0	0.8	6.7	10.1	11.3	2.8	1.2	3.3	0.8	0.8	6.0
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	4.8	3.0	3.2	1.7	4.8	9.6	6.0	7.3	7.1	12.5	5.4	4.8
n	248	232	248	240	248	240	248	248	240	248	240	248	
2001	N	3.6	4.5	0.4	2.9	2.8	1.3	0.4	1.2	3.3	5.2	9.6	4.8
	NE	11.3	16.1	9.3	7.5	8.9	1.7	5.6	3.2	6.7	13.3	22.5	21.0
	E	50.8	46.9	81.5	74.6	57.3	43.8	57.7	50.0	52.1	41.1	29.6	35.9
	SE	2.0	2.2	0.0	1.7	2.0	2.9	3.2	2.8	0.8	4.0	2.9	2.8
	S	4.4	3.1	0.4	0.0	1.6	2.9	2.8	1.6	1.7	2.8	5.8	6.9
	SW	1.6	0.9	0.4	2.5	0.8	7.1	7.7	8.5	3.3	4.0	1.7	3.6
	W	14.9	17.9	0.8	3.3	9.7	22.5	13.7	11.3	18.3	10.5	12.9	14.9
	NW	8.5	7.1	6.5	4.2	8.9	12.5	3.2	6.5	10.4	10.1	13.8	6.9
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.4	0.4
	Calm	2.8	1.3	0.8	3.3	8.1	5.4	5.6	14.9	3.3	7.7	0.8	2.8
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
2002	N	2.8	2.2	1.6	0.4	0.4	1.7	2.4	0.0	2.5	10.1	0.8	8.9
	NE	19.0	29.9	2.0	6.3	4.8	1.7	2.4	2.0	15.4	25.0	7.9	35.5
	E	48.4	54.9	87.9	50.8	74.2	21.3	42.7	45.2	43.8	24.2	47.9	17.7
	SE	2.0	0.9	0.4	1.7	1.6	4.2	3.2	2.4	1.7	0.4	0.8	0.8
	S	3.6	2.2	0.4	4.2	0.0	1.7	2.4	3.2	2.1	0.8	7.1	3.2
	SW	2.0	0.0	0.4	5.4	0.0	10.8	12.1	6.0	2.1	5.6	2.9	8.1
	W	8.1	1.8	6.0	19.6	2.8	35.8	16.9	11.7	10.0	19.0	20.8	19.0
	NW	12.1	6.3	0.4	8.3	2.0	10.8	6.5	5.2	11.7	3.6	4.2	4.8
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	2.0	1.8	0.8	3.3	14.1	12.1	11.3	24.2	10.8	11.3	7.5	2.0
n	248	224	248	240	248	240	248	248	240	248	240	248	
2003	N	10.5	3.1	4.8	4.2	0.8	0.4	0.4	1.6	4.2	3.6	0.4	0.8
	NE	53.2	25.0	12.9	14.6	8.1	2.5	2.0	4.8	15.4	23.8	12.9	13.7
	E	25.4	42.9	70.2	38.3	53.6	15.4	35.9	56.5	43.3	48.0	57.1	54.0
	SE	0.4	1.3	1.6	0.8	4.0	2.5	2.0	7.3	2.5	2.8	0.8	0.0
	S	0.0	0.9	0.0	0.8	1.2	2.1	4.0	2.4	0.8	0.8	1.3	0.0
	SW	0.0	3.1	1.2	7.9	6.0	13.8	17.7	6.0	3.8	0.4	1.3	0.4
	W	4.0	12.9	4.4	22.9	12.9	30.8	24.2	7.7	16.3	1.6	6.3	4.0
	NW	3.6	8.0	2.4	6.7	6.5	7.5	1.6	0.8	8.8	6.5	7.9	3.6
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	2.8	2.7	2.4	3.8	6.9	25.0	12.1	12.9	5.0	12.5	12.1	23.4
n	248	224	248	240	248	240	248	248	240	248	240	248	
2004	N	0.0	0.9	0.0	0.4	0.0	1.7	0.8	0.8	1.7	3.2	7.1	3.2
	NE	1.6	10.3	1.6	11.3	12.9	6.3	2.0	2.8	18.8	25.0	33.8	16.5
	E	76.2	59.9	56.0	56.7	66.5	46.7	49.6	44.4	53.8	50.4	40.4	61.3
	SE	0.4	0.0	2.4	0.8	0.4	3.8	4.8	3.2	3.3	1.6	0.0	0.4
	S	0.8	0.4	0.8	1.3	0.0	2.9	1.6	1.6	0.4	4.8	0.8	0.4
	SW	0.0	0.4	2.4	3.3	2.4	9.2	16.1	11.7	3.8	1.2	0.0	0.4
	W	2.8	4.7	11.7	12.5	11.7	20.4	15.7	26.2	5.8	5.2	3.8	2.0
	NW	4.4	0.0	4.0	3.3	2.4	1.3	1.2	3.6	8.8	4.8	12.9	14.5
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	13.7	23.3	21.0	10.4	3.6	7.9	8.1	5.6	3.8	3.6	1.3	1.2
n	248	232	248	240	248	240	248	248	240	248	240	248	
2005	N	1.6	3.1	1.2	4.2	2.0	0.0	1.6	1.2	2.9	2.4	3.3	2.4
	NE	12.5	11.6	11.7	10.0	21.0	4.2	1.6	6.9	28.3	22.6	28.3	11.3
	E	65.7	41.1	69.4	59.6	54.0	58.8	26.6	61.3	37.5	43.5	51.7	54.0
	SE	1.6	1.8	0.8	2.1	4.0	4.6	7.3	4.4	2.9	0.4	1.3	2.8
	S	2.8	12.9	1.2	1.7	2.8	0.8	6.5	5.6	2.1	1.2	1.7	6.0
	SW	2.0	4.0	1.2	2.1	0.8	10.8	20.6	6.9	4.2	2.8	2.1	4.4
	W	4.8	10.7	7.3	6.3	7.7	17.5	29.0	10.5	8.8	11.7	7.5	14.9
	NW	6.9	12.5	6.9	9.2	4.4	1.7	5.2	0.4	8.8	9.7	3.3	2.4
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	2.0	2.2	0.4	5.0	3.2	1.7	1.6	2.8	4.6	5.6	0.8	1.6
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.6 – continued

Year	Dw	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
2006	N	4.8	8.9	3.2	0.4	0.8	2.1	0.4	0.8	6.7	6.5	4.2	4.8
	NE	4.4	19.2	25.8	7.9	7.7	4.2	2.0	4.8	8.3	39.1	21.3	19.8
	E	25.8	36.2	59.7	76.3	58.9	58.8	49.2	43.5	44.2	40.7	50.0	55.2
	SE	10.9	1.3	0.4	2.9	4.0	5.8	8.9	5.2	3.8	2.8	2.9	0.8
	S	15.7	4.0	0.8	3.8	1.2	1.7	6.0	2.4	2.5	2.4	4.6	2.8
	SW	9.7	3.6	1.2	2.5	1.6	11.3	10.5	16.9	1.3	0.8	4.2	1.2
	W	15.7	12.9	5.2	5.4	14.9	11.3	17.7	16.5	12.5	0.8	3.8	6.0
	NW	12.1	12.9	2.8	0.4	7.7	4.2	2.4	3.2	17.9	4.8	7.5	7.7
	V.w.	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	0.4	0.9	0.8	0.4	3.2	0.8	2.8	6.5	2.9	2.0	1.7	1.6
n	248	224	248	240	248	240	248	248	240	248	240	248	
2007	N	2.8	4.9	3.6	1.7	0.8	0.0	0.4	0.8	3.3	6.9	7.9	4.8
	NE	22.6	21.9	17.3	13.3	9.7	6.3	3.2	8.1	20.4	12.9	19.6	32.3
	E	58.5	56.7	53.6	65.4	74.2	65.8	52.4	49.2	46.7	40.3	44.2	34.7
	SE	5.2	0.9	3.2	0.8	1.2	4.6	6.5	5.2	4.2	1.6	2.9	1.6
	S	2.4	0.9	4.8	0.8	0.8	2.5	4.8	4.8	2.9	3.2	6.3	4.8
	SW	0.8	1.8	1.2	0.4	2.4	5.0	17.3	4.0	2.1	4.0	1.7	0.8
	W	5.2	7.1	10.5	10.0	6.0	12.5	12.5	15.7	9.6	15.7	9.6	12.5
	NW	2.4	5.4	4.0	7.1	3.2	1.7	1.2	6.5	5.4	12.9	6.7	7.7
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	0.0	0.4	1.6	0.4	1.6	1.7	1.6	5.6	5.4	2.4	1.3	0.8
n	248	224	248	240	248	240	248	248	240	248	240	248	
2008	N	2.0	3.4	0.8	1.3	1.6	2.9	0.4	0.0	0.4	4.0	2.1	2.8
	NE	17.3	15.9	6.0	12.5	5.6	7.5	3.2	2.4	9.6	24.2	28.8	10.9
	E	47.2	52.6	88.3	65.0	50.8	49.2	44.4	46.0	29.2	52.8	46.3	50.0
	SE	2.0	2.6	0.0	0.8	3.2	2.9	8.5	5.2	5.0	0.8	1.3	0.4
	S	2.4	2.2	0.0	0.0	2.8	2.1	2.8	3.6	7.5	3.2	2.1	3.6
	SW	2.4	3.0	0.0	0.4	5.2	3.8	11.3	11.3	9.6	2.0	1.7	4.4
	W	10.1	11.6	2.0	5.0	16.1	14.6	21.0	17.3	22.5	9.3	12.5	12.1
	NW	8.9	7.3	2.8	12.1	9.7	13.8	6.0	8.9	7.1	2.0	3.8	11.7
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	7.7	1.3	0.0	2.9	4.8	3.3	2.4	5.2	9.2	1.6	1.7	4.0
n	248	232	248	240	248	240	248	248	240	248	240	248	
2009	N	8.1	0.0	0.0	2.1	1.6	0.4	1.2	1.2	1.7	1.6	0.8	2.4
	NE	14.5	18.8	8.9	9.6	5.6	3.3	4.0	6.5	18.8	19.4	13.3	25.0
	E	58.9	61.6	75.8	57.5	45.6	45.0	56.9	63.3	45.0	33.9	61.7	51.6
	SE	0.8	1.8	0.8	0.8	2.4	7.1	8.5	5.6	0.0	0.4	1.3	2.4
	S	0.8	4.0	1.2	0.8	2.4	2.9	2.0	2.4	2.1	4.4	6.7	4.8
	SW	0.8	0.9	1.2	0.8	8.5	10.8	8.5	8.5	2.9	3.2	1.7	2.8
	W	5.6	6.7	5.2	10.0	23.0	16.7	11.7	7.3	15.4	16.9	2.1	7.7
	NW	6.9	3.1	4.0	16.3	8.1	12.1	4.0	0.0	5.8	16.9	1.7	1.2
	V.w.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Calm	3.6	3.1	2.8	2.1	2.8	1.7	3.2	5.2	8.3	3.2	10.8	2.0
n	248	224	248	240	248	240	248	248	240	248	240	248	

Table 18.7. Annual means, the highest (Max), and the lowest (Min) frequencies [%] of wind directions, variable winds and calms with year of occurrence

Year	N	NE	E	SE	S	SW	W	NW	Variable wind	Calm
1978	-	-	-	-	-	-	-	-	-	-
1979	3.2	19.9	43.2	2.4	2.4	3.6	8.9	4.6	1.0	11.2
1980	3.9	29.4	33.4	1.5	2.4	5.6	12.8	4.0	0.0	6.9
1981	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-
1983	2.5	12.1	50.4	5.6	2.4	2.6	8.6	6.4	1.3	8.1
1984	3.6	16.8	37.5	3.4	3.3	6.0	14.5	4.7	0.5	9.8
1985	2.1	25.7	32.6	2.8	1.9	2.3	12.9	4.0	0.1	15.6
1986	3.2	15.7	42.8	3.0	3.9	5.2	10.4	5.5	0.1	10.2
1987	2.0	17.2	44.3	2.5	3.2	6.1	16.5	3.1	0.0	5.1
1988	0.9	11.0	51.6	2.2	3.0	4.5	12.9	4.3	0.3	9.4
1989	3.0	11.4	47.3	2.2	4.2	3.9	15.9	4.5	0.2	7.4
1990	4.5	24.5	38.8	1.7	2.8	6.4	11.4	4.4	0.0	5.6
1991	5.7	20.2	37.5	1.6	3.4	6.2	13.9	4.7	1.8	4.9
1992	3.7	16.7	44.8	1.8	2.5	6.0	12.4	5.2	0.8	6.1
1993	2.6	14.5	47.1	2.4	3.4	6.4	11.2	5.9	1.5	4.9
1994	2.9	12.3	46.1	2.3	2.5	5.5	12.0	6.1	1.8	8.4
1995	4.0	26.0	40.3	2.3	2.3	6.1	10.7	3.9	0.3	4.1
1996	3.9	18.8	37.6	1.0	3.8	7.0	15.3	4.2	0.1	8.2
1997	3.8	20.9	39.0	1.8	3.1	6.7	13.3	3.4	0.0	8.1
1998	2.7	20.1	51.0	1.3	2.9	4.7	9.7	2.0	0.0	5.6
1999	3.2	25.9	38.3	1.4	3.4	6.8	9.4	3.0	0.0	8.5
2000	4.2	21.5	41.8	1.2	3.7	6.3	11.7	3.8	0.0	5.9
2001	3.3	10.6	51.8	2.3	2.8	3.5	12.6	8.2	0.2	4.7
2002	2.8	12.7	46.6	1.7	2.6	4.6	14.3	6.3	0.0	8.4
2003	2.9	15.7	45.0	2.2	1.2	5.1	12.3	5.3	0.0	10.1
2004	1.6	11.9	55.2	1.8	1.3	4.2	10.2	5.1	0.0	8.6
2005	2.2	14.2	51.9	2.8	3.8	5.2	11.4	5.9	0.0	2.6
2006	3.6	13.7	49.9	4.2	4.0	5.4	10.2	7.0	0.0	2.0
2007	3.2	15.6	53.5	3.2	3.3	3.5	10.6	5.3	0.0	1.9
2008	1.8	12.0	51.8	2.7	2.7	4.6	12.8	7.8	0.0	3.7
2009	1.8	12.3	54.7	2.7	2.9	4.2	10.7	6.7	0.0	4.1
2010	-	-	-	-	-	-	-	-	-	-
2011	-	-	-	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-
1979–2009										
Mean	3.1	17.2	45.0	2.3	2.9	5.1	12.1	5.0	0.3	6.9
σ_n	0.98	5.21	6.35	0.93	0.72	1.27	2.00	1.42	0.56	2.99
Min	0.9	10.6	32.6	1.0	1.2	2.3	8.6	2.0	0.0	1.9
Max	5.7	29.4	55.2	5.6	4.2	7.0	16.5	8.2	1.8	15.6

Table 18.8. Monthly and annual means, as well as multiannual mean monthly wind velocities [$\text{m}\cdot\text{s}^{-1}$] from term observations in particular months and years, and their multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual mean
1978	-	-	-	-	-	-	2.0	3.1	2.8	3.5	4.9	3.9	-
1979	6.0	7.6	11.7	5.1	6.1	3.7	4.1	5.7	5.1	5.0	6.6	5.2	6.0
1980	7.4	5.1	5.7	6.5	3.2	4.0	3.4	4.4	3.9	4.6	5.2	6.6	5.0
1981	5.9	8.7	7.9	6.6	5.2	3.8	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	2.6	5.1	5	6.8	7.6	-
1983	7.7	6.6	6.8	6.5	3.6	3.4	4.2	3.6	7.3	5.2	5.6	6.1	5.6
1984	5.6	8.3	6.3	8.6	4.6	4.6	4.7	2.9	2.9	4.9	6.1	4.9	5.4
1985	6.5	5.8	4.8	3.7	3.6	1.6	5.1	5.0	3.3	4.4	6.1	7.5	4.8
1986	6.1	5.6	6.0	4.1	6.2	3.2	4.9	2.3	3.2	5.2	5.9	5.1	4.8
1987	7.0	7.1	6.3	6.8	3.1	2.6	3.1	4.2	4.0	5.9	5.3	6.0	5.1
1988	6.1	6.4	6.6	6.1	4.4	3.7	4.7	3.5	3.9	5.3	5.1	5.1	5.1
1989	6.1	6.2	6.6	6.7	3.7	3.1	3.4	3.4	5.0	4.6	5.8	5.9	5.0
1990	8.6	6.9	6.8	6.1	3.5	3.3	3.5	5.5	5.1	5.3	6.0	8.2	5.7
1991	7.7	6.6	5.7	6.3	4.5	3.7	3.8	5.2	4.1	5.4	6.9	6.9	5.6
1992	6.9	5.9	7.0	7.2	4.8	5.1	3.1	4.5	4.7	4.4	6.2	8.2	5.7
1993	8.8	6.3	8.1	4.5	6.4	3.8	4.5	6.2	3.0	5.5	5.6	8.3	5.9
1994	7.8	5.2	7.9	7.1	4.6	4.3	2.9	3.1	4.4	4.0	6.4	7.5	5.4
1995	9.3	8.3	8.1	5.2	4.2	4.3	4.2	3.6	4.0	5.2	5.2	6.6	5.7
1996	5.7	4.9	6.2	5.4	4.3	5.9	2.7	4.3	4.2	7.3	5.9	5.3	5.2
1997	5.9	8.1	6.7	4.8	4.6	3.4	3.3	4.3	4.6	6.5	5.3	6.2	5.3
1998	7.2	10.9	8.7	5.4	4.3	3.8	4.8	4.9	3.9	8.3	6.7	6.7	6.3
1999	7.4	9.0	8.1	6.6	5.4	3.5	4.7	3.7	5.2	5.6	7.6	6.1	6.1
2000	6.6	8.5	5.7	6.0	6.2	3.6	4.0	4.6	4.5	5.1	5.7	6.2	5.6
2001	7.2	7.1	7.1	5.9	5.6	4.9	4.3	4.7	6.4	3.8	5.9	5.9	5.7
2002	7.3	10	7.9	7.6	5.3	3.4	3.9	3.5	3.8	4.9	5.4	6.6	5.8
2003	5.1	7.6	7.5	5.6	4.3	2.4	4.0	2.5	4.4	6.3	7.4	5.8	5.2
2004	8.6	7.2	6.4	7.6	6.3	3.9	4.5	4.1	5.3	4.6	6.7	8.6	6.2
2005	8.4	6.5	7.1	6.9	6.7	4.9	3.4	4.4	5.7	5.5	7.4	6.7	6.1
2006	7.2	7.2	8.3	8.7	5.1	5.1	3.8	3.0	3.9	5.1	6.1	6.4	5.8
2007	7.3	6.0	6.0	5.7	6.8	5.3	4.2	5.2	4.3	6.9	6.0	6.7	5.9
2008	6.6	7.3	7.7	5.8	4.0	5.2	3.8	3.5	3.9	6.1	7.2	5.3	5.5
2009	6.0	8.4	7.3	5.1	5.5	4.1	5.7	3.6	6.0	4.4	6.6	7.2	5.8
2010	6.5	8.4	5.6	7.5	6.3	4.3	3.7	3.1	5.5	4.7	5.4	7.2	5.7
2011	7.2	8.1	4.8	6.6	4.6	3.7	4.5	5.7	5.4	6.4	5.3	6.5	5.7
2012	7.1	6.1	6.2	4.8	6.3	4.1	4.3	4.6	5.4	4.5	7.3	5.6	5.5
1978–2009													
Mean	7.0	7.2	7.1	6.1	4.9	3.9	4.0	4.0	4.4	5.3	6.1	6.4	5.6
σ	1.06	1.42	1.28	1.18	1.07	0.93	0.79	0.98	1.02	1.01	0.73	1.11	0.41
Max	9.3	10.9	11.7	8.7	6.8	5.9	5.7	6.2	7.3	8.3	7.6	8.6	6.3
Min	5.1	4.9	4.8	3.7	3.1	1.6	2.0	2.3	2.8	3.5	4.9	3.9	4.8
1978–2012													
Mean	7.0	7.2	7.0	6.2	4.9	3.9	4.0	4.1	4.5	5.3	6.1	6.4	5.6
σ	1.01	1.40	1.32	1.18	1.08	0.89	0.76	1.00	1.02	1.00	0.75	1.07	0.39

In the periods: July–September 1978, July 1979 – July 1980, and September 1982 four observations per day were made.

Table 18.9. Maximum monthly and annual as well as multiannual maximum monthly wind velocities [$\text{m}\cdot\text{s}^{-1}$] from the term observations and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual max
1978	-	-	-	-	-	-	7	16	18	21	20	19	21
1979	16	20	25	18	23	14	12	18	20	18	20	15	25
1980	22	14	20	15	12	11	14	12	16	18	14	22	22
1981	22	29	21	22	14	12	-	-	-	-	-	-	29
1982	-	-	-	-	-	-	-	-	17	23	19	25	25
1983	24	24	18	24	13	13	14	15	17	16	25	20	25
1984	18	27	20	22	19	18	18	14	11	16	18	18	27
1985	21	18	14	14	14	11	18	13	18	21	23	23	23
1986	23	23	19	21	21	14	19	14	10	24	20	20	24
1987	28	25	14	19	8	6	9	16	11	18	19	18	28
1988	14	16	19	20	17	13	16	14	16	16	18	16	20
1989	22	24	25	22	14	17	14	15	15	15	20	17	25
1990	18	20	18	23	11	15	13	14	19	16	20	19	23
1991	17	17	15	20	11	12	9	16	15	15	17	28	28
1992	23	17	22	17	14	18	16	13	18	16	17	21	23
1993	25	20	25	13	23	23	16	18	11	19	19	26	26
1994	24	22	17	19	20	13	10	12	14	19	17	22	24
1995	26	21	22	17	14	14	16	14	12	13	13	23	26
1996	17	16	19	17	12	15	9	15	14	20	17	13	20
1997	18	17	18	15	18	10	10	13	15	23	16	20	23
1998	22	22	26	16	13	11	16	14	12	22	14	20	26
1999	22	20	20	21	17	10	14	12	21	15	18	22	22
2000	20	21	19	15	24	11	12	15	19	20	16	17	24
2001	16	16	13	19	16	16	12	18	17	15	19	20	20
2002	19	25	20	22	16	12	12	14	14	19	17	19	25
2003	15	17	29	20	14	10	16	10	16	22	24	16	29
2004	19	21	20	24	15	12	18	19	14	16	24	21	24
2005	23	22	18	20	17	13	11	17	20	20	23	23	23
2006	31	25	21	19	17	15	13	17	11	13	17	33	33
2007	15	15	20	19	20	17	13	21	12	21	17	19	21
2008	20	19	21	18	14	18	12	12	16	17	21	18	21
2009	17	23	20	17	20	16	14	15	20	17	18	25	25
2010	20	22	24	18	15	17	13	9	15	18	18	21	24
2011	17	19	22	25	15	14	19	16	16	17	22	19	25
2012	19	20	21	16	22	15	19	26	21	17	18	20	26
1978-2009													
Mean	20.6	20.5	19.9	18.9	16.0	13.7	13.4	14.9	15.5	18.2	18.7	20.6	24.4
σ_n	4.0	3.8	3.6	2.9	3.9	3.3	3.1	2.4	3.2	3.0	2.9	4.0	3.0
Max	31	29	29	24	24	23	19	21	21	24	25	33	33
Min	14	14	13	13	8	6	7	10	10	13	13	13	20
1978-2012													
Mean	20.4	20.5	20.2	19.0	16.2	13.8	13.8	15.1	15.6	18.1	18.8	20.5	24.4
σ_n	3.9	3.6	3.5	3.0	3.9	3.2	3.2	3.2	3.2	2.9	2.9	3.9	2.9

In the periods: July-September 1978, July 1979 – June 1980 and September 1982 four observations per day were made.

Table 18.10. Number of days with mean diurnal wind velocity $\geq 10 \text{ m}\cdot\text{s}^{-1}$ in consecutive months and years, and its multiannual means, maxima and minima with year of occurrence

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	0	2	1	1	1	1	-
1979	5	8	21	3	6	1	0	4	4	1	6	3	62
1980	7	3	5	0	0	1	1	1	0	2	2	7	29
1981	4	9	8	8	2	0	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	4	3	6	9	-
1983	9	4	6	7	0	0	2	1	5	5	2	4	45
1984	4	7	5	13	3	2	1	0	0	2	4	3	44
1985	6	3	2	2	2	0	5	3	1	4	4	11	43
1986	4	4	3	1	6	1	5	0	0	3	5	5	37
1987	9	7	3	5	0	0	0	4	0	5	2	2	37
1988	6	8	8	3	2	2	1	1	1	2	2	1	37
1989	6	4	6	6	1	1	0	0	2	1	3	2	32
1990	14	5	4	4	0	1	2	7	2	3	4	10	56
1991	7	4	3	5	0	1	0	1	0	2	6	6	35
1992	7	2	7	4	0	2	1	2	3	2	4	11	45
1993	13	4	10	1	6	1	3	5	0	2	2	11	58
1994	10	4	8	10	2	1	0	0	2	1	4	9	51
1995	14	12	7	3	1	0	2	0	0	2	0	3	44
1996	3	1	4	1	0	4	0	2	0	9	3	1	28
1997	4	12	7	2	6	0	0	1	4	2	0	3	41
1998	7	15	12	4	0	0	6	1	1	9	3	7	65
1999	10	12	10	3	3	0	3	1	2	5	11	4	64
2000	6	9	2	5	5	0	0	1	1	1	2	5	37
2001	10	7	4	5	5	3	2	4	6	1	2	3	52
2002	8	15	9	8	4	0	0	0	0	3	2	5	54
2003	1	7	7	2	1	0	2	0	1	6	6	8	41
2004	14	9	6	11	7	1	2	2	4	1	5	11	73
2005	13	3	7	7	6	2	0	2	4	3	7	6	60
2006	5	5	8	11	2	0	0	0	0	0	2	4	37
2007	5	2	3	2	5	3	1	6	0	9	4	5	45
2008	3	9	21	12	0	0	0	0	0	1	6	5	57
2009	4	11	4	1	3	1	7	2	7	2	9	6	57
2010	21	24	14	20	18	8	7	4	11	11	17	20	175
2011	25	19	15	18	12	5	8	13	7	16	10	18	166
2012	20	19	15	8	15	7	12	11	7	1	10	4	129
1978–2009													
Mean	7.3	6.8	7.0	5.0	2.6	0.9	1.5	1.8	1.8	3.0	3.8	5.5	47.1
σ_n	3.6	3.9	4.6	3.6	2.4	1.1	2.0	1.9	2.0	2.4	2.5	3.2	11.7
Max	14	15	21	13	7	4	7	7	7	9	11	11	73
Min	1	1	2	0	0	0	0	0	0	0	0	1	28
1978–2012													
Mean	8.6	8.1	7.7	5.9	3.7	1.5	2.2	2.5	2.4	3.6	4.6	6.3	57.4
σ_n	5.6	5.5	4.9	4.9	4.3	2.0	2.9	3.1	2.8	3.5	3.5	4.4	34.9

Table 18.11. Monthly and annual means as well as multiannual monthly means of general cloudiness [octas] in particular months and years and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual mean
1978	-	-	-	-	-	-	5.7	7.0	5.4	6.1	5.8	5.9	-
1979	5.1	5.7	5.9	5.1	6.3	6.7	5.6	6.7	7.0	6.8	7.1	4.9	6.1
1980	6.2	6.5	4.9	5.4	5.3	6.5	6.7	7.2	6.9	5.5	3.8	3.2	5.7
1981	4.3	6.2	4.3	5.6	5.4	6.5	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	6.9	5.8	6.3	5.7	5.1	-
1983	5.3	5.8	5.6	5.4	6.2	6.7	6.9	6.8	6.7	5.5	4.4	4.7	5.8
1984	6.2	7.2	4.7	6.0	5.9	6.5	6.5	7.0	6.9	6.3	6.6	7.0	6.4
1985	4.7	5.2	5.4	3.7	6.1	6.3	6.2	5.5	6.5	5.6	4.8	4.7	5.4
1986	4.8	5.1	6.0	4.3	6.5	6.8	6.8	6.6	6.0	5.7	4.7	4.2	5.6
1987	5.2	4.7	4.5	5.8	5.5	6.4	6.6	6.2	6.4	6.7	5.3	3.3	5.6
1988	4.7	4.6	5.1	4.5	5.4	6.6	6.1	6.1	6.3	5.4	3.6	3.5	5.2
1989	3.9	3.7	5.3	6.6	6.1	6.4	7.3	5.9	7.0	5.9	5.8	4.8	5.7
1990	6.6	4.8	5.0	5.7	5.0	7.2	6.5	6.1	6.9	6.4	4.9	6.5	6.0
1991	5.5	6.5	5.6	6.0	6.8	5.9	6.0	6.8	6.0	5.9	4.9	5.2	5.9
1992	5.4	4.7	5.5	4.9	6.4	6.2	5.8	6.1	6.1	4.6	6.1	5.0	5.6
1993	5.0	5.2	5.0	4.8	5.6	6.8	4.4	6.3	5.7	5.1	6.6	6.1	5.6
1994	5.1	6.0	6.3	5.6	5.6	7.0	7.6	6.7	6.7	5.4	5.2	5.8	6.1
1995	5.0	5.6	4.5	5.7	5.7	6.0	7.0	6.4	6.7	5.1	4.5	5.4	5.6
1996	6.7	5.8	6.6	4.1	5.2	6.8	6.4	6.8	6.8	6.6	6.7	3.2	6.0
1997	5.0	5.6	4.9	5.4	6.3	5.6	6.9	6.6	6.1	6.3	6.2	6.0	5.9
1998	4.2	4.2	5.8	4.4	5.8	5.8	6.0	6.6	5.8	5.9	6.5	5.6	5.6
1999	5.6	5.7	5.8	4.9	6.0	6.9	6.1	7.0	7.4	5.4	6.3	3.9	5.9
2000	5.4	5.3	4.7	5.6	6.8	5.5	6.3	6.0	6.9	7.1	6.3	4.4	5.9
2001	5.9	5.8	4.5	4.7	6.2	5.7	6.5	6.1	7.2	5.3	4.7	4.9	5.6
2002	5.3	5.8	4.9	6.9	5.4	6.4	6.6	6.4	5.6	6.0	6.3	5.7	5.9
2003	3.6	5.9	5.7	6.3	6.1	7.0	6.8	6.4	6.7	5.8	5.0	3.1	5.7
2004	5.2	4.2	6.9	7.3	6.2	6.9	6.6	6.9	6.7	6.2	4.8	6.6	6.2
2005	5.5	6.4	5.2	5.7	6.3	7.2	6.0	7.3	6.6	5.7	6.6	6.1	6.2
2006	6.6	5.5	4.7	6.9	6.0	7.0	7.3	6.9	5.6	6.2	5.9	5.1	6.1
2007	5.1	4.1	6.6	5.7	5.9	7.0	6.8	6.0	6.4	6.6	6.3	5.7	6.0
2008	6.2	5.5	4.2	4.2	6.3	5.9	6.0	6.3	6.4	5.4	5.3	5.7	5.6
2009	5.3	5.6	5.8	3.7	6.6	6.0	5.9	6.5	6.6	6.0	6.9	6.7	6.0
2010	7.0	4.6	4.2	5.9	7.1	6.5	7.4	5.5	6.5	5.8	4.6	5.4	5.9
2011	5.2	5.3	5.4	6.3	5.7	5.0	7.1	6.6	7.1	6.2	5.9	5.8	6.0
2012	6.5	6.1	6.2	4.5	6.1	6.7	6.8	6.7	6.5	5.5	4.8	5.3	6.0
1978–2009													
Mean	5.3	5.4	5.3	5.4	6.0	6.5	6.4	6.5	6.4	5.9	5.6	5.1	5.8
σ_n	0.8	0.8	0.7	0.9	0.5	0.5	0.6	0.4	0.5	0.6	0.9	1.1	0.3
Max	6.7	7.2	6.9	7.3	6.8	7.2	7.6	7.3	7.4	7.1	7.1	7.0	6.4
Min	3.6	3.7	4.2	3.7	5.0	5.5	4.4	5.5	5.4	4.6	3.6	3.1	5.2
1978–2012													
Mean	5.4	5.4	5.3	5.4	6.0	6.4	6.5	6.5	6.5	5.9	5.6	5.1	5.8
σ_n	0.8	0.8	0.7	0.9	0.5	0.5	0.6	0.4	0.5	0.5	0.9	1.1	0.3

In the periods: July–September 1978, July 1979 – July 1980, and September 1982 four observations per day were made.
In the period November 1978 – June 1979 three observations per day were made.

Table 18.12. Number of clear days ($N \leq 2/8$) and mean, maximum and minimum number of such days recorded in particular months

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	6	1	1	1	5	3	-
1979	8	6	8	6	1	2	5	0	2	0	0	6	44
1980	2	2	7	6	3	0	0	0	0	3	10	14	47
1981	6	3	6	2	6	0	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	0	1	2	8	-
1983	2	2	2	6	2	0	0	0	0	3	7	6	30
1984	4	0	7	2	2	2	1	0	0	2	0	1	21
1985	5	5	5	11	2	1	0	3	0	5	5	5	47
1986	6	2	2	8	0	1	0	1	0	1	5	8	34
1987	3	3	12	2	3	0	2	1	0	1	4	14	45
1988	6	6	6	4	4	0	3	1	2	1	12	12	57
1989	10	11	4	0	0	1	0	1	0	2	2	6	37
1990	1	8	5	0	2	0	0	0	0	0	4	1	21
1991	4	2	5	3	0	3	3	0	1	2	4	6	33
1992	4	7	3	5	1	1	3	1	0	6	1	6	38
1993	9	2	8	6	2	0	7	0	2	2	2	2	42
1994	4	1	1	2	4	0	0	1	0	0	3	3	19
1995	7	2	8	2	2	0	0	0	0	3	9	5	38
1996	2	3	3	12	2	0	1	0	0	0	0	14	37
1997	5	4	6	0	1	3	0	1	0	0	0	3	23
1998	10	11	4	5	2	2	1	0	1	3	0	4	43
1999	3	4	1	4	2	0	1	0	0	2	3	11	31
2000	3	2	6	1	0	1	1	3	0	0	1	7	25
2001	2	2	4	5	1	2	1	1	0	5	4	5	32
2002	4	2	4	0	4	1	2	1	1	2	2	3	26
2003	12	2	4	7	2	0	1	1	0	6	5	14	54
2004	5	9	0	0	2	0	1	0	0	1	4	2	24
2005	5	3	2	5	0	1	1	0	2	2	0	2	23
2006	0	3	6	0	1	0	0	1	2	0	1	3	17
2007	6	7	0	0	2	0	1	1	0	0	0	5	22
2008	3	4	8	8	1	0	0	0	1	1	6	1	33
2009	5	4	1	8	0	2	2	1	0	2	1	1	27
2010	1	8	5	2	0	1	0	2	0	2	6	5	32
2011	8	6	2	1	2	5	1	3	0	2	3	2	35
2012	2	3	1	7	1	1	1	1	3	1	5	3	29
1978–2009													
Mean	4.9	4.1	4.6	4.0	1.8	0.8	1.4	0.7	0.5	1.8	3.3	5.8	33.4
σ	2.8	2.9	2.8	3.4	1.4	1.0	1.8	0.8	0.8	1.8	3.1	4.2	10.8
Max	12	11	12	12	6	3	7	3	2	6	12	14	57
Min	0	0	0	0	0	0	0	0	0	0	0	1	17
1978–2012													
Mean	4.8	4.2	4.4	3.9	1.7	0.9	1.4	0.8	0.5	1.8	3.4	5.6	33.3
σ	2.9	2.8	2.8	3.3	1.4	1.2	1.8	0.9	0.9	1.7	3.0	4.1	10.4

Table 18.13. Number of cloudy days ($N \geq 7/8$) and mean, minimum and maximum number of such days recorded in particular months

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	17	21	10	16	15	16	-
1979	10	12	16	11	17	19	11	17	27	17	20	8	185
1980	10	18	9	13	9	14	17	21	19	10	7	5	152
1981	8	16	5	11	13	11	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	5	13	10	9	-
1983	9	9	11	14	18	17	18	18	16	11	5	8	154
1984	16	19	10	17	16	15	12	22	20	15	15	21	198
1985	5	9	11	3	13	14	11	11	12	12	6	9	116
1986	6	7	14	5	20	17	19	20	13	10	8	6	145
1987	9	8	10	15	11	14	22	9	15	21	16	3	153
1988	10	6	8	6	10	18	14	16	14	6	5	6	119
1989	6	8	9	17	15	14	23	11	19	11	12	8	153
1990	19	11	7	14	7	19	16	12	16	14	7	14	156
1991	14	18	14	14	20	13	14	18	11	14	9	10	169
1992	13	8	7	7	16	14	12	16	17	5	11	6	132
1993	8	4	13	9	11	17	4	14	12	4	20	15	131
1994	10	9	18	12	12	21	23	15	15	8	8	15	166
1995	11	11	8	15	14	12	19	14	15	3	5	11	138
1996	21	11	20	7	8	18	16	17	20	21	19	7	185
1997	11	14	7	7	16	9	20	16	17	13	17	15	162
1998	10	9	10	5	14	10	13	14	9	15	12	14	135
1999	13	13	11	8	11	21	14	21	25	9	17	5	168
2000	9	7	7	8	19	10	16	12	20	19	16	7	150
2001	12	10	6	8	14	10	18	11	22	8	9	6	134
2002	12	13	9	19	11	19	21	20	12	15	16	14	181
2003	1	11	14	12	16	17	20	16	13	18	7	3	148
2004	14	9	20	22	18	19	19	23	16	14	6	20	200
2005	14	16	7	14	13	23	16	25	17	13	16	13	187
2006	19	10	6	19	11	19	25	25	10	13	11	6	174
2007	10	3	17	8	11	22	22	14	14	20	8	14	163
2008	20	10	6	8	17	12	14	18	18	10	9	14	156
2009	10	13	11	3	17	16	11	17	15	14	20	20	167
2010	22	6	4	15	22	18	27	9	14	15	3	13	168
2011	14	10	12	15	11	9	25	22	25	15	14	12	184
2012	19	17	14	3	12	19	20	21	20	9	8	9	171
1978–2009													
Mean	11.3	10.7	10.7	11.0	13.9	15.8	16.6	16.8	15.6	12.6	11.7	10.6	157.8
σ	4.5	3.9	4.3	5.0	3.5	3.9	4.6	4.2	4.7	4.7	5.0	5.1	22.0
Max	21	19	20	22	20	23	25	25	27	21	20	21	200
Min	1	3	5	3	7	9	4	9	5	3	5	3	116
1978–2012													
Mean	12.0	10.8	10.6	11.0	14.0	15.8	17.2	16.8	16.0	12.7	11.4	10.6	159.4
σ	4.9	4.0	4.3	5.0	3.7	3.9	5.0	4.4	4.4	4.6	5.0	4.9	21.5

Table 18.14. Monthly and annual as well as multiannual mean monthly totals of sunshine duration [hours] in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	-	77.3	133.7	17.8	-	-	-
1979	-	4.1	75.1	201.8	185.3	195.0	273.4	158.1	61.6	22.8	-	-	1177.2
1980	-	4.5	119.2	189.6	295.6	221.7	115.0	65.0	57.5	14.8	-	-	1082.9
1981	-	2.2	97.7	219.6	263.9	165.7	145.2	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	99.8	20.0	-	-	-
1983	-	0.0	40.8	151.6	160.9	206.0	156.3	92.7	53.3	12.9	-	-	874.5
1984	-	4.4	101.4	155.9	182.8	152.8	162.0	72.5	54.5	16.6	-	-	902.9
1985	-	0.0	107.0	285.4	205.8	193.9	221.8	207.4	88.4	20.4	-	-	1330.1
1986	-	5.6	66.2	273.4	166.9	154.8	130.9	111.5	102.6	32.0	-	-	1043.9
1987	-	9.3	159.9	138.1	254.8	155.6	151.9	163.0	86.0	7.6	-	-	1126.2
1988	-	15.7	105.9	208.2	253.7	134.8	171.1	169.6	83.1	7.4	-	-	1149.5
1989	-	21.9	111.5	97.0	196.2	177.1	72.7	163.9	33.3	18.8	-	-	892.4
1990	-	10.5	100.4	147.2	281.8	74.8	141.5	178.4	67.5	34.2	-	-	1036.3
1991	-	8.0	90.2	185.8	153.0	223.7	188.8	109.8	109.8	27.8	-	-	1096.9
1992	-	0.0	65.3	165.6	132.7	173.1	210.9	94.2	71.2	13.5	-	-	926.5
1993	-	0.0	98.8	225.3	233.1	116.4	348.4	113.5	102.7	40.4	-	-	1278.6
1994	-	3.2	60.6	183.4	197.8	81.2	50.3	85.3	67.6	31.5	-	-	760.9
1995	-	0.0	122.7	179.7	204.6	201.0	103.1	104.5	63.9	39.2	-	-	1018.7
1996	-	0.8	60.1	247.5	290.0	115.9	173.5	136.6	50.3	4.3	-	-	1079.0
1997	-	1.2	100.6	230.8	174.9	248.3	99.3	95.2	93.9	14.0	-	-	1058.2
1998	-	11.2	62.5	278.3	233.7	231.0	215.8	126.5	103.2	24.9	-	-	1287.1
1999	-	0.0	82.3	221.5	193.8	95.0	159.8	77.7	21.5	35.4	-	-	887.0
2000	-	2.4	112.5	159.1	139.6	263.9	162.9	180.7	62.3	11.7	-	-	1095.1
2001	-	5.4	143.5	219.6	220.4	240.9	130.4	145.1	34.8	37.9	-	-	1178.0
2002	-	0.0	74.8	70.1	264.1	155.8	140.7	131.3	140.7	13.6	-	-	991.1
2003	-	3.4	91.0	197.9	196.8	117.0	156.0	133.4	52.0	22.4	-	-	969.9
2004	-	19.6	44.4	52.2	182.6	142.7	125.8	110.7	57.4	24.7	-	-	760.1
2005	-	16.5	101.9	162.5	201.6	84.5	174.0	54.5	60.4	14.1	-	-	870.0
2006	-	5.9	107.9	57.5	222.1	119.3	53.0	94.5	126.1	19.5	-	-	805.8
2007	-	10.5	60.6	184.7	244.4	114.6	135.5	154.5	92.6	28.7	-	-	1026.1
2008	-	7.1	142.7	264.9	192.2	252.3	202.3	127.0	39.8	19.8	-	-	1248.1
2009	-	5.2	60.8	307.7	116.8	205.6	255.8	142.9	69.8	34.9	-	-	1199.5
2010	-	16.6	169.8	177.9	115.9	195.1	78.9	226.8	70.7	14.5	-	-	1066.2
2011	-	3.8	111.6	105.7	217.9	297.5	95.4	120.6	42.1	42.2	-	-	1036.8
2012	-	3.8	86.5	240.6	201.2	137.6	125.9	98.0	52.2	34.2	-	-	980.0
1978–2009													
Mean	-	6.0	92.3	188.7	208.1	167.1	160.9	122.6	75.5	22.1	-	-	1039.7
σ_n	-	6.1	29.5	64.9	46.5	55.0	62.9	38.4	29.7	10.0	-	-	157.0
Max	-	21.9	159.9	307.7	295.6	263.9	348.4	207.4	140.7	40.4	-	-	1330.1
Min	-	0.0	40.8	52.2	116.8	74.8	50.3	54.5	21.5	4.3	-	-	760.1
1978–2012													
Mean	-	6.1	95.0	187.5	205.4	171.0	155.4	124.9	73.7	22.8	-	-	1038.6
σ_n	-	6.1	31.3	64.1	47.1	57.5	62.7	41.1	29.2	10.4	-	-	149.7

Table 18.15. Monthly and annual as well as multiannual mean monthly percentage of relative sunshine duration [%] in particular months and years and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual mean
1978	-	-	-	-	-	-	-	11.1	31.6	9.1	-	-	-
1979	-	5.0	21.3	34.0	24.9	27.1	36.7	22.6	14.6	11.6	-	-	22.0
1980	-	5.5	33.8	32.0	39.7	30.8	15.5	9.3	13.6	7.5	-	-	20.9
1981	-	2.7	27.7	37.0	35.5	23.0	19.5	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	23.6	10.2	-	-	-
1983	-	0.0	11.6	25.6	21.6	28.6	21.0	13.3	12.6	6.6	-	-	15.6
1984	-	5.4	28.7	26.3	24.6	21.2	21.8	10.4	12.9	8.5	-	-	17.7
1985	-	0.0	30.3	48.1	27.7	26.9	29.8	29.7	20.9	10.4	-	-	24.9
1986	-	6.8	18.8	46.1	22.4	21.5	17.6	16.0	24.3	16.3	-	-	21.1
1987	-	11.3	45.3	23.3	34.2	21.6	20.4	23.3	20.4	3.9	-	-	22.6
1988	-	19.1	30.0	35.1	34.1	18.7	23.0	24.3	19.7	3.8	-	-	23.1
1989	-	26.7	31.6	16.4	26.4	24.6	9.8	23.5	7.9	9.6	-	-	19.6
1990	-	12.8	28.5	24.8	37.9	10.4	19.0	25.5	16.0	17.4	-	-	21.4
1991	-	9.8	25.6	31.3	20.6	31.1	25.4	15.7	26.0	14.2	-	-	22.2
1992	-	0.0	18.5	27.9	17.8	24.0	28.3	13.5	16.8	6.9	-	-	17.1
1993	-	0.0	28.0	38.0	31.3	16.2	46.8	16.2	24.3	20.6	-	-	24.6
1994	-	3.9	17.2	30.9	26.6	11.3	6.8	12.2	16.0	16.0	-	-	15.7
1995	-	0.0	34.8	30.3	27.5	27.9	13.9	15.0	15.1	20.0	-	-	20.5
1996	-	1.0	17.0	41.7	39.0	16.1	23.3	19.6	11.9	2.2	-	-	19.1
1997	-	1.5	28.5	38.9	23.5	34.5	13.3	13.6	22.2	7.1	-	-	20.4
1998	-	13.7	17.7	46.9	31.4	32.1	29.0	18.1	24.4	12.7	-	-	25.1
1999	-	0.0	23.3	37.4	26.0	13.2	21.5	11.1	5.1	18.0	-	-	17.3
2000	-	2.9	31.9	26.8	18.8	36.7	21.9	25.9	14.7	6.0	-	-	20.6
2001	-	6.6	40.7	37.0	29.6	33.5	17.5	20.8	8.2	19.3	-	-	23.7
2002	-	0.0	21.2	11.8	35.5	21.6	18.9	18.8	33.3	6.9	-	-	18.7
2003	-	4.1	25.8	33.4	26.5	16.3	21.0	19.1	12.3	11.4	-	-	18.9
2004	-	23.9	12.6	8.8	24.5	19.8	16.9	15.8	13.6	12.6	-	-	16.5
2005	-	20.1	28.9	27.4	27.1	11.7	23.4	7.8	14.3	7.2	-	-	18.7
2006	-	7.2	30.6	9.7	29.9	16.6	7.1	13.5	29.8	9.9	-	-	17.1
2007	-	12.8	17.2	31.2	32.8	15.9	18.2	22.1	21.9	14.6	-	-	20.8
2008	-	8.7	40.5	44.7	25.8	35.0	27.2	18.2	9.4	10.1	-	-	24.4
2009	-	6.3	17.2	51.9	15.7	28.6	34.4	20.5	16.5	17.8	-	-	23.2
2010	-	20.2	48.1	30.0	15.6	27.1	10.6	32.5	16.7	7.4	-	-	23.1
2011	-	4.6	31.6	17.8	29.3	41.3	12.8	17.3	10.0	21.5	-	-	20.7
2012	-	4.6	24.5	40.6	27.0	19.1	16.9	14.0	12.4	17.4	-	-	19.6
1978–2009													
Mean	-	7.3	26.2	31.8	28.0	23.2	21.6	17.5	17.9	11.2	-	-	20.5
σ	-	7.4	8.4	10.9	6.3	7.6	8.5	5.5	7.0	5.1	-	-	2.8
Max	-	26.7	45.3	51.9	39.7	36.7	46.8	29.7	33.3	20.6	-	-	25.1
Min	-	0.0	11.6	8.8	15.7	10.4	6.8	7.8	5.1	2.2	-	-	15.6
1978–2012													
Mean	-	7.5	26.9	31.6	27.6	23.8	20.9	17.9	17.4	11.6	-	-	20.5
σ	-	7.5	8.9	10.8	6.3	8.0	8.4	5.9	6.9	5.3	-	-	2.7

Table 18.16. Monthly and annual means as well as multiannual mean monthly air temperature [°C] in particular months and years and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual mean
1978	-	-	-	-	-	-	4.3	3.8	-1.0	-3.3	-8.3	-9.5	-
1979	-15.4	-16.6	-13.9	-14.1	-7.3	-0.1	4.9	3.7	1.2	-2.8	-4.9	-9.5	-6.2
1980	-12.0	-11.6	-11.7	-8.1	-2.9	2.3	4.4	3.8	1.8	-5.5	-13.4	-16.3	-5.8
1981	-17.9	-9.0	-16.8	-11.3	-4.3	0.4	3.6	4.0	1.2	-2.6	-5.9	-12.4	-5.9
1982	-16.0	-12.1	-6.8	-8.2	-3.5	0.7	3.5	3.4	-1.7	-4.1	-6.8	-11.5	-5.3
1983	-8.9	-13.5	-7.8	-9.9	-3.5	0.8	4.2	3.3	1.6	-4.2	-12.7	-15.3	-5.5
1984	-7.2	-6.5	-11.4	-7.3	-2.6	2.1	4.3	4.0	2.0	-0.7	-2.7	-1.2	-2.3
1985	-10.2	-8.2	-9.2	-10.9	-3.1	1.8	5.0	3.8	1.3	-4.1	-7.4	-11.3	-4.4
1986	-13.6	-15.3	-8.8	-10.8	-2.4	2.2	4.2	4.0	-0.9	-2.0	-7.1	-9.9	-5.0
1987	-9.0	-14.9	-10.9	-7.2	-3.4	2.1	4.3	4.0	0.4	-4.2	-8.2	-15.3	-5.2
1988	-13.9	-10.5	-14.5	-14.2	-2.3	1.6	4.0	3.8	-0.7	-7.9	-14.9	-17.5	-7.3
1989	-14.6	-15.7	-12.5	-4.9	-1.2	2.3	3.9	3.7	1.6	-3.6	-7.1	-12.2	-5.0
1990	-4.8	-7.5	-11.4	-6.3	-2.2	2.2	5.4	4.5	4.5	-1.3	-9.7	-7.4	-2.8
1991	-9.1	-6.3	-7.6	-9.7	-2.8	1.4	4.5	5.2	1.2	-3.3	-9.2	-10.1	-3.8
1992	-10.7	-13.1	-9.5	-5.5	-2.0	2.4	5.0	3.9	2.6	-6.5	-4.6	-10.4	-4.0
1993	-14.3	-13.2	-12.5	-11.3	-3.4	1.4	4.3	4.4	-0.1	-7.5	-1.8	-9.3	-5.3
1994	-14.3	-11.3	-7.1	-5.0	-3.3	1.8	3.7	3.0	0.8	-6.4	-10.3	-6.1	-4.5
1995	-14.2	-10.7	-12.1	-5.6	-2.5	2.4	3.8	3.5	1.8	-5.0	-12.1	-12.6	-5.3
1996	-7.9	-12.0	-5.9	-8.8	-4.3	1.1	4.0	3.9	1.2	-2.2	-3.4	-14.3	-4.1
1997	-15.5	-12.5	-10.0	-11.3	-2.6	1.6	3.6	3.7	1.1	-3.1	-6.0	-7.4	-4.9
1998	-15.0	-16.1	-10.4	-10.1	-4.5	1.8	5.3	5.1	1.0	-2.0	-3.8	-10.2	-4.9
1999	-8.3	-10.9	-6.0	-8.8	-2.5	2.6	4.3	3.9	3.1	-3.3	-2.1	-8.5	-3.0
2000	-7.1	-9.4	-12.3	-11.4	-3.5	1.9	4.8	4.1	2.5	1.9	-1.9	-8.2	-3.2
2001	-6.5	-7.1	-13.7	-11.3	-2.7	2.0	4.6	4.7	3.1	-3.4	-8.3	-7.5	-3.8
2002	-10.7	-11.3	-13.9	-4.4	-3.7	3.2	5.5	5.3	0.7	-2.1	-3.9	-6.9	-3.5
2003	-16.4	-9.1	-15.1	-7.5	-2.0	2.3	4.7	4.3	1.2	-2.7	-4.6	-15.3	-5.0
2004	-13.8	-14.5	-4.9	-2.7	-2.3	1.3	4.7	3.5	2.0	-2.1	-9.3	-5.0	-3.6
2005	-5.9	-5.1	-12.5	-7.9	-2.2	1.9	4.3	4.6	0.6	-3.4	-2.4	-2.6	-2.6
2006	-1.7	-7.5	-12.0	-0.3	-0.2	3.1	4.7	4.6	1.1	-2.9	-2.7	-4.1	-1.5
2007	-7.4	-7.5	-5.6	-8.6	-2.1	2.6	4.2	4.3	1.8	-0.9	-3.4	-5.6	-2.4
2008	-5.0	-7.0	-13.4	-9.3	-1.6	2.4	4.2	3.9	2.9	-3.8	-6.0	-6.0	-3.2
2009	-9.9	-9.1	-8.9	-11.7	-0.8	2.7	5.3	4.3	1.9	-2.3	-0.6	-3.5	-2.7
2010	-5.2	-7.9	-13.2	-6.5	-0.5	1.7	3.8	3.6	2.5	-2.0	-8.4	-9.5	-3.5
2011	-12.5	-9.4	-9.8	-3.7	-1.6	3.2	3.9	4.2	4.1	-0.9	-3.8	-4.6	-2.6
2012	-1.8	-3.6	-3.5	-7.9	-2.0	2.2	4.7	4.6	2.9	-0.5	-3.9	-4.8	-1.1
1978–2009													
Mean	-10.9	-10.8	-10.6	-8.5	-2.8	1.9	4.4	4.1	1.3	-3.4	-6.4	-9.5	-4.3
σ_n	4.1	3.2	3.1	3.2	1.3	0.7	0.5	0.5	1.3	2.0	3.7	4.1	1.3
Max	-1.7	-5.1	-4.9	-0.3	-0.2	3.2	5.5	5.3	4.5	1.9	-0.6	-1.2	-1.5
Min	-17.9	-16.6	-16.8	-14.2	-7.3	-0.1	3.5	3.0	-1.7	-7.9	-14.9	-17.5	-7.3
1978–2012													
Mean	-10.5	-10.5	-10.5	-8.3	-2.7	1.9	4.4	4.1	1.5	-3.2	-6.3	-9.2	-4.1
σ_n	4.3	3.4	3.2	3.2	1.3	0.7	0.5	0.5	1.4	2.0	3.6	4.1	1.4

In italics are given values calculated, based on data from the Svalbard Lufthavn station.

Table 18.17. Mean maximum diurnal air temperature [°C] in particular months and years and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Max
1978	-	-	-	-	-	-	5.9	5.6	0.9	-1.0	-5.5	-6.1	5.9
1979	-11.7	-12.6	-11.1	-11.0	-4.9	1.5	7.9	5.8	2.7	-0.5	-2.8	-6.3	7.9
1980	-7.6	-7.6	-8.8	-5.4	-0.1	4.1	6.0	5.4	3.2	-3.2	-10.5	-13.0	6.0
1981	-13.3	-5.5	-13.4	-8.0	-1.8	2.4	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	3.3	-0.1	-2.3	-4.0	-7.9	-
1983	-6.0	-9.0	-5.4	-7.3	-1.4	2.9	6.8	5.3	3.8	-2.3	-10.3	-11.5	6.8
1984	-4.4	-3.9	-8.1	-4.7	-0.3	4.0	6.5	5.8	4.4	1.4	-0.7	0.9	6.5
1985	-7.2	-5.4	-6.3	-8.1	-0.8	3.9	7.2	5.6	3.0	-2.1	-5.0	-8.1	7.2
1986	-10.6	-10.8	-5.0	-7.4	-0.7	4.4	6.5	6.1	0.8	0.0	-5.1	-7.6	6.5
1987	-5.9	-12.0	-8.1	-4.4	-0.7	3.6	6.0	5.9	2.3	-2.0	-5.3	-12.2	6.0
1988	-10.9	-7.6	-10.1	-10.3	-0.1	3.5	5.9	5.9	1.0	-5.0	-11.6	-14.1	5.9
1989	-10.0	-12.6	-9.2	-2.3	0.9	4.2	5.5	6.0	3.4	-1.4	-4.5	-9.6	6.0
1990	-2.9	-5.3	-8.5	-3.5	0.7	4.0	7.5	6.5	6.6	0.8	-7.1	-4.3	7.5
1991	-6.3	-3.6	-4.3	-6.6	-0.6	3.0	6.4	7.1	2.8	-0.9	-6.6	-6.8	7.1
1992	-7.5	-10.4	-6.4	-3.1	0.5	4.5	7.4	5.7	4.5	-3.8	-2.3	-7.6	7.4
1993	-11.2	-9.5	-8.4	-6.8	-1.1	3.9	6.9	6.6	2.0	-4.7	0.1	-6.7	6.9
1994	-11.7	-7.4	-4.6	-2.6	-0.1	3.6	5.7	5.0	2.4	-4.3	-7.0	-3.3	5.7
1995	-11.2	-8.3	-9.0	-2.8	-0.3	4.1	6.0	5.7	3.6	-3.0	-8.2	-9.0	6.0
1996	-4.8	-8.5	-3.3	-5.8	-1.4	2.5	6.0	5.9	2.9	-0.3	-1.2	-11.0	6.0
1997	-11.2	-9.4	-6.8	-7.6	-0.4	3.5	5.4	5.7	3.0	-1.4	-3.4	-4.0	5.7
1998	-12.2	-13.8	-7.9	-7.0	-1.5	3.7	7.7	7.2	2.6	-0.1	-1.2	-7.0	7.7
1999	-5.8	-8.3	-4.0	-6.2	-0.6	4.5	6.5	5.4	4.8	-1.2	-0.1	-6.0	6.5
2000	-4.6	-6.6	-9.0	-8.3	-1.5	3.6	6.6	6.2	4.2	3.6	0.4	-5.5	6.6
2001	-3.8	-4.6	-10.9	-8.5	-0.9	4.8	6.4	6.9	4.7	-0.9	-5.6	-4.8	6.9
2002	-8.1	-8.5	-10.7	-1.9	-1.5	4.9	7.6	7.3	2.5	-0.4	-1.7	-4.3	7.6
2003	-13.5	-5.9	-12.2	-4.7	-0.2	4.0	7.0	6.3	2.7	-0.7	-2.8	-12.6	7.0
2004	-10.9	-11.6	-2.3	-0.8	-0.6	3.1	7.5	5.4	3.8	-0.5	-6.5	-2.9	7.5
2005	-3.3	-2.6	-9.5	-5.1	-0.2	3.6	6.8	6.3	1.9	-1.1	-0.3	-0.6	6.8
2006	0.5	-5.2	-9.5	1.2	1.8	4.6	6.7	6.1	3.1	-1.0	-0.6	-1.9	6.7
2007	-5.2	-5.0	-3.2	-6.0	-0.5	4.2	6.0	6.3	3.5	1.4	-0.9	-2.8	6.3
2008	-2.4	-3.7	-11.0	-6.3	0.7	4.5	6.5	5.9	4.6	-1.7	-3.7	-3.0	6.5
2009	-7.6	-6.8	-6.3	-8.3	0.9	4.6	7.6	6.5	3.6	-0.1	1.3	-1.6	7.6
2010	-2.8	-5.9	-10.3	-4.4	1.1	3.7	5.8	5.8	4.1	-0.2	-5.9	-6.4	5.8
2011	-8.9	-6.5	-6.7	-1.3	0.8	5.1	6.0	6.0	5.9	1.2	-1.2	-2.4	6.0
2012	-0.1	-1.2	-1.3	-5.8	-0.1	3.9	6.7	6.4	4.4	1.4	-2.0	-1.9	6.7
1978–2009													
Mean	-7.7	-7.7	-7.8	-5.7	-0.6	3.8	6.6	6.0	3.1	-1.2	-4.0	-6.5	6.7
σ_n	3.7	3.0	2.9	2.8	1.2	0.8	0.7	0.7	1.4	1.8	3.4	3.8	0.7
Max	0.5	-2.6	-2.3	1.2	1.8	4.9	7.9	7.3	6.6	3.6	1.3	0.9	7.9
Min	-13.5	-13.8	-13.4	-11.0	-4.9	1.5	5.4	3.3	-0.1	-5.0	-11.6	-14.1	5.7
1978–2012													
Mean	-7.4	-7.4	-7.6	-5.5	-0.5	3.8	6.6	6.0	3.2	-1.1	-3.9	-6.2	6.6
σ_n	3.8	3.1	3.0	2.8	1.2	0.8	0.7	0.7	1.4	1.9	3.3	3.8	0.7

Table 18.18. Mean minimum diurnal air temperature [°C] in particular months and years and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Min
1978	-	-	-	-	-	-	2.3	2.0	-3.2	-6.4	-12.3	-13.3	-
1979	-19.5	-20.7	-17.1	-17.2	-9.8	-1.6	2.4	1.6	-0.5	-5.4	-7.0	-13.1	-20.7
1980	-16.3	-15.3	-15.0	-11.2	-5.5	0.6	2.8	2.2	0.1	-8.1	-16.9	-20.1	-20.1
1981	-22.7	-13.0	-20.2	-15.0	-6.9	-1.6	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	0.1	-3.7	-6.1	-10.1	-14.6	-
1983	-11.9	-17.6	-10.7	-12.7	-5.7	-1.1	2.4	1.6	-0.2	-6.2	-15.5	-19.3	-19.3
1984	-10.2	-9.4	-14.9	-10.1	-4.9	0.6	2.4	2.4	0.3	-2.9	-4.7	-3.6	-14.9
1985	-13.6	-11.2	-12.3	-14.0	-5.1	0.3	3.1	1.9	-0.7	-6.5	-10.1	-14.5	-14.5
1986	-17.7	-20.3	-12.5	-14.4	-4.1	0.6	2.5	2.5	-2.7	-4.3	-9.2	-12.7	-20.3
1987	-12.0	-18.4	-14.2	-9.9	-6.0	0.7	2.8	2.3	-1.5	-6.6	-11.1	-18.4	-18.4
1988	-17.3	-13.6	-17.9	-17.5	-4.8	0.0	2.3	1.8	-2.8	-10.9	-18.3	-20.5	-20.5
1989	-19.1	-18.8	-15.8	-7.6	-3.1	0.5	2.2	1.8	-0.3	-5.8	-10.0	-14.7	-19.1
1990	-7.1	-9.8	-14.6	-9.1	-4.9	0.8	3.6	2.8	3.0	-3.2	-12.5	-10.5	-14.6
1991	-12.2	-9.2	-10.4	-13.0	-4.8	-0.3	3.0	3.6	-0.4	-5.9	-12.0	-13.4	-13.4
1992	-14.1	-16.0	-12.6	-8.0	-4.2	0.7	3.1	2.4	0.5	-9.0	-7.5	-12.9	-16.0
1993	-16.9	-16.8	-16.3	-15.0	-5.9	-0.5	2.0	2.5	-2.1	-9.5	-4.2	-11.8	-16.9
1994	-17.0	-15.3	-9.9	-7.2	-5.9	0.4	1.8	1.2	-0.4	-8.7	-13.3	-9.4	-17.0
1995	-17.4	-13.2	-15.2	-8.3	-4.8	0.8	2.0	1.7	0.2	-7.0	-15.9	-15.6	-17.4
1996	-11.0	-16.0	-8.6	-12.4	-7.3	-0.5	1.8	1.9	-0.6	-4.2	-5.6	-17.3	-17.3
1997	-19.4	-15.7	-13.0	-15.4	-4.7	-0.2	1.7	1.9	-1.0	-5.0	-9.0	-11.4	-19.4
1998	-17.9	-19.1	-13.2	-13.7	-7.1	0.2	3.1	3.2	-0.7	-4.0	-6.7	-13.3	-19.1
1999	-11.2	-13.7	-8.4	-11.5	-4.6	0.9	2.3	2.1	1.4	-5.6	-4.5	-11.3	-13.7
2000	-9.9	-12.2	-15.8	-14.7	-5.4	0.1	3.0	2.2	0.7	0.2	-3.7	-11.1	-15.8
2001	-9.5	-10.0	-16.7	-14.1	-4.3	0.3	3.1	3.1	1.5	-5.9	-11.5	-10.6	-16.7
2002	-13.8	-14.6	-16.8	-6.9	-5.7	1.9	4.1	3.6	-1.0	-3.6	-6.2	-9.5	-16.8
2003	-19.5	-12.6	-18.2	-11.0	-3.9	0.9	3.0	2.7	-0.6	-4.7	-6.5	-17.8	-19.5
2004	-16.6	-17.0	-7.8	-4.3	-3.7	-0.2	2.5	1.7	0.6	-4.2	-11.8	-7.4	-17.0
2005	-8.3	-7.8	-15.4	-10.5	-3.9	0.6	2.6	3.2	-1.0	-5.5	-4.3	-4.8	-15.4
2006	-4.3	-10.0	-14.6	-2.0	-1.7	1.8	3.0	3.4	-0.9	-4.9	-5.0	-6.8	-14.6
2007	-10.1	-10.2	-8.3	-11.6	-3.4	1.5	2.8	2.5	0.1	-3.2	-6.1	-8.2	-11.6
2008	-7.5	-10.1	-16.1	-12.3	-3.4	1.0	2.7	2.4	1.4	-6.4	-8.2	-9.3	-16.1
2009	-12.6	-11.7	-11.9	-15.2	-2.2	1.1	3.4	2.6	0.2	-4.6	-2.4	-5.4	-15.2
2010	-7.8	-9.9	-16.4	-8.5	-1.9	0.2	2.5	1.9	1.2	-3.8	-11.3	-12.8	-16.4
2011	-16.0	-12.9	-13.2	-6.1	-3.5	1.7	2.1	2.7	2.5	-2.7	-6.3	-7.2	-16.0
2012	-3.8	-6.0	-5.9	-10.3	-3.6	4.3	3.3	3.0	1.3	-2.5	-6.2	-8.0	-10.3
1978–2009													
Mean	-13.9	-14.0	-13.8	-11.5	-4.9	0.3	2.7	2.3	-0.5	-5.6	-9.1	-12.3	-16.8
σ_n	4.5	3.6	3.2	3.7	1.6	0.8	0.6	0.7	1.4	2.2	4.2	4.4	2.4
Max	-4.3	-7.8	-7.8	-2.0	-1.7	1.9	4.1	3.6	3.0	0.2	-2.4	-3.6	-11.6
Min	-22.7	-20.7	-20.2	-17.5	-9.8	-1.6	1.7	0.1	-3.7	-10.9	-18.3	-20.5	-20.7
1978–2012													
Mean	-13.5	-13.6	-13.6	-11.2	-4.7	0.5	2.7	2.3	-0.3	-5.4	-9.0	-12.1	-16.6
σ_n	4.8	3.8	3.4	3.7	1.6	1.1	0.6	0.7	1.5	2.2	4.1	4.4	2.6

Table 18.19. Absolute maxima of air temperature [°C] measured in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Max
1978	-	-	-	-	-	-	-	9.4	4.9	2.6	3.9	2.5	-
1979	-0.3	1.0	0.2	-0.4	0.0	4.8	13.4	11.5	6.5	5.5	2.5	0.2	13.4
1980	2.5	1.6	1.8	2.1	5.0	9.4	8.2	8.8	7.9	5.2	1.8	0.2	9.4
1981	-2.3	1.7	-2.9	0.1	4.7	5.3	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	6.1	3.0	4.5	0.6	2.6	-
1983	2.3	1.6	2.4	1.9	3.5	11.3	12.3	8.1	8.1	3.8	1.2	-2.3	12.3
1984	1.0	2.6	3.0	2.6	4.2	9.3	9.6	11.2	9.2	7.6	3.8	4.4	11.2
1985	2.5	2.3	2.7	0.1	2.5	9.6	10.5	11.2	5.5	5.0	2.9	1.0	11.2
1986	2.6	1.5	3.0	0.6	4.0	6.8	9.4	9.6	6.3	5.0	4.2	2.2	9.6
1987	4.5	-3.0	1.9	3.2	5.4	6.2	10.3	12.0	6.7	3.6	2.7	-0.5	12.0
1988	2.0	1.0	0.3	0.4	4.8	7.2	9.1	11.5	7.2	1.8	0.2	0.9	11.5
1989	2.4	1.9	-0.9	3.2	5.0	7.4	11.0	12.0	8.0	4.9	3.4	3.2	12.0
1990	1.6	3.4	2.3	4.1	5.6	7.4	10.9	9.3	10.4	5.9	0.3	3.6	10.9
1991	2.5	2.8	2.5	1.6	4.3	5.5	9.1	9.1	5.4	2.6	0.8	2.8	9.1
1992	2.0	1.4	1.0	3.6	3.7	10.0	11.4	7.5	7.1	2.0	3.0	1.6	11.4
1993	1.6	3.3	1.8	2.2	5.1	9.3	12.2	10.2	4.8	3.2	3.8	3.4	12.2
1994	-1.0	2.7	2.5	2.6	4.2	6.7	8.7	8.6	5.3	2.6	1.0	2.9	8.7
1995	0.0	-2.0	2.6	3.2	5.2	7.8	9.1	9.5	5.5	3.2	1.4	3.1	9.5
1996	3.4	2.2	3.2	1.6	5.1	4.5	8.1	12.0	6.3	4.1	3.0	1.8	12.0
1997	2.5	1.3	1.7	0.5	4.7	8.0	7.8	8.5	8.0	5.2	3.6	2.3	8.5
1998	0.5	-4.7	2.0	1.7	2.7	7.3	13.4	9.7	6.8	4.5	4.1	2.6	13.4
1999	1.9	1.3	2.6	3.0	3.3	7.5	12.6	7.9	8.3	4.6	4.7	3.4	12.6
2000	2.0	-0.3	0.7	0.8	4.1	8.1	10.5	9.9	8.4	7.3	3.0	1.8	10.5
2001	1.7	2.0	-1.1	2.5	2.7	11.0	9.6	12.0	10.7	5.0	3.6	3.8	12.0
2002	3.6	-0.7	-2.7	2.4	4.6	7.5	11.7	9.7	6.1	6.0	3.2	3.8	11.7
2003	-2.6	1.8	0.0	3.2	5.5	6.5	11.0	8.7	7.5	4.9	4.0	1.7	11.0
2004	-0.4	1.3	2.1	3.5	4.2	7.4	12.1	9.0	9.9	5.8	3.0	2.7	12.1
2005	2.4	4.3	2.0	2.3	3.5	6.9	13.5	9.7	8.0	4.7	3.1	2.6	13.5
2006	4.9	2.9	-0.3	5.7	7.8	7.0	12.1	8.9	7.1	4.3	4.9	3.1	12.1
2007	3.1	-0.3	2.5	3.3	3.1	7.7	8.1	9.3	7.1	5.6	4.3	3.2	9.3
2008	3.4	3.0	-0.7	0.1	3.8	7.3	10.4	8.5	8.7	3.9	3.3	3.1	10.4
2009	2.4	2.6	1.9	2.0	3.8	7.5	10.7	10.8	7.0	3.7	3.4	3.8	10.8
2010	3.0	1.7	2.2	0.6	3.7	8.3	9.8	9.3	6.4	6.8	1.5	1.4	9.8
2011	3.0	3.5	2.9	5.1	4.2	8.3	8.7	11.1	9.3	5.4	5.2	3.6	11.1
2012	3.6	4.1	3.4	2.3	3.8	6.3	10.0	9.3	8.7	4.7	3.1	2.7	10.0
1978–2009													
Mean	1.8	1.4	1.3	2.1	4.2	7.6	10.6	9.7	7.2	4.5	2.9	2.3	11.1
σ_n	1.8	1.9	1.7	1.4	1.3	1.6	1.7	1.5	1.7	1.4	1.3	1.4	1.4
Max	4.9	4.3	3.2	5.7	7.8	11.3	13.5	12.0	10.7	7.6	4.9	4.4	13.5
Min	-2.6	-4.7	-2.9	-0.4	0.0	4.5	7.8	6.1	3.0	1.8	0.2	-2.3	8.5
1978–2012													
Mean	1.9	1.5	1.4	2.2	4.2	7.6	10.5	9.7	7.2	4.6	2.9	2.3	11.0
σ_n	1.7	1.9	1.6	1.5	1.3	1.6	1.7	1.4	1.7	1.4	1.3	1.4	1.4

Table 18.20. Absolute minima of air temperature [°C] measured in particular months and years and the multiannual means, maxima and minima

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Min
1978	-	-	-	-	-	-	-	-0.5	-8.9	-12.6	-20.9	-26.4	-26.4
1979	-31.1	-33.6	-25.4	-25.4	-18.0	-6.5	0.2	-0.8	-4.7	-14.4	-15.1	-29.4	-33.6
1980	-26.6	-30.2	-25.1	-20.6	-13.6	-3.0	1.2	-1.0	-5.5	-15.4	-28.9	-28.1	-30.2
1981	-35.9	-23.1	-28.7	-19.9	-19.5	-7.4	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-3.3	-7.7	-17.2	-20.3	-23.6	-
1983	-25.3	-27.2	-17.3	-21.1	-13.6	-6.8	0.2	-0.8	-6.8	-16.5	-23.2	-28.8	-28.8
1984	-21.1	-19.6	-26.6	-17.7	-14.4	-2.7	-0.7	-0.9	-3.7	-10.4	-15.7	-10.6	-26.6
1985	-22.6	-24.0	-24.6	-21.4	-9.4	-4.0	0.7	-0.7	-6.2	-14.6	-18.0	-25.5	-25.5
1986	-23.9	-27.6	-34.2	-21.5	-12.9	-1.2	1.4	-0.3	-10.4	-11.7	-18.4	-22.3	-34.2
1987	-23.1	-27.5	-24.4	-19.8	-13.6	-2.6	1.0	-0.7	-9.5	-13.3	-19.4	-27.2	-27.5
1988	-23.0	-27.2	-28.5	-30.7	-14.5	-3.4	0.0	-1.5	-11.2	-20.8	-25.7	-32.1	-32.1
1989	-27.6	-28.5	-28.0	-19.2	-7.0	-3.8	0.1	-1.6	-4.7	-15.9	-19.1	-21.9	-28.5
1990	-16.4	-23.1	-25.1	-20.7	-13.1	-2.9	1.8	-1.5	-1.0	-11.7	-18.8	-24.0	-25.1
1991	-21.6	-19.3	-21.6	-20.5	-15.2	-3.8	1.5	0.8	-4.4	-14.6	-20.8	-22.9	-22.9
1992	-24.4	-29.8	-21.6	-15.1	-10.4	-1.9	0.8	-0.2	-3.2	-17.8	-20.1	-20.1	-29.8
1993	-24.6	-25.6	-28.6	-23.5	-14.6	-5.9	0.3	0.5	-7.6	-14.8	-18.9	-20.3	-28.6
1994	-23.2	-28.2	-21.8	-14.7	-14.6	-3.3	0.1	-4.9	-3.7	-16.7	-24.4	-20.1	-28.2
1995	-29.3	-25.5	-24.7	-17.2	-14.8	-1.8	0.4	-1.6	-2.7	-15.2	-22.6	-27.6	-29.3
1996	-29.9	-28.0	-21.8	-18.0	-18.2	-5.2	-1.0	-2.1	-7.7	-12.7	-14.0	-24.6	-29.9
1997	-29.5	-27.9	-22.7	-24.3	-10.2	-5.2	-0.5	-0.6	-6.0	-12.3	-19.8	-20.9	-29.5
1998	-29.4	-29.3	-28.8	-24.5	-14.8	-3.0	0.2	0.8	-4.9	-8.9	-11.9	-22.3	-29.4
1999	-21.9	-22.9	-18.2	-18.7	-14.5	-2.4	1.0	-0.8	-2.0	-13.5	-13.7	-19.0	-22.9
2000	-22.9	-22.1	-24.8	-21.7	-12.3	-2.5	-0.9	-0.9	-3.6	-5.6	-9.8	-19.6	-24.8
2001	-15.8	-20.5	-24.5	-22.6	-9.1	-5.2	1.9	0.9	-3.7	-16.7	-18.8	-24.2	-24.5
2002	-24.5	-25.1	-24.4	-15.3	-11.8	0.2	2.1	-0.1	-7.2	-12.9	-12.7	-23.8	-25.1
2003	-26.8	-21.8	-25.7	-22.6	-13.2	-2.8	1.1	-1.0	-6.6	-12.3	-12.2	-23.3	-26.8
2004	-29.2	-25.6	-19.2	-12.6	-11.1	-3.0	0.4	-1.3	-3.1	-10.5	-18.6	-15.5	-29.2
2005	-15.6	-17.1	-23.9	-23.7	-10.0	-1.9	0.5	1.6	-6.1	-12.1	-13.0	-16.8	-23.9
2006	-14.3	-17.0	-20.5	-14.4	-5.4	0.0	1.9	-0.4	-4.7	-9.4	-15.0	-14.4	-20.5
2007	-24.2	-16.5	-17.0	-18.1	-13.6	-0.3	0.7	-0.2	-3.6	-10.0	-13.9	-16.9	-24.2
2008	-15.2	-18.2	-23.2	-22.0	-8.7	-1.2	0.5	0.4	-3.1	-12.2	-15.8	-20.8	-23.2
2009	-25.8	-19.2	-22.3	-23.4	-8.7	-1.6	0.8	-0.5	-3.1	-11.0	-7.9	-15.2	-25.8
2010	-20.2	-21.4	-23.7	-15.2	-12.7	-1.9	-1.3	-0.8	-2.6	-10.7	-21.2	-19.6	-23.7
2011	-27.0	-23.5	-21.1	-17.9	-7.9	-0.9	-0.5	0.6	-0.8	-11.6	-13.7	-16.8	-27.0
2012	-11.4	-17.1	-14.2	-16.4	-8.4	-1.7	1.5	1.3	-6.2	-12.2	-13.8	-19.4	-19.4
1978–2009													
Mean	-24.2	-24.4	-24.1	-20.4	-12.7	-3.2	0.6	-0.7	-5.4	-13.3	-17.7	-22.2	-27.2
σ	5.1	4.5	3.8	3.8	3.2	2.0	0.8	1.2	2.5	3.1	4.7	4.9	3.3
Max	-14.3	-16.5	-17.0	-12.6	-5.4	0.2	2.1	1.6	-1.0	-5.6	-7.9	-10.6	-20.5
Min	-35.9	-33.6	-34.2	-30.7	-19.5	-7.4	-1.0	-4.9	-11.2	-20.8	-28.9	-32.1	-34.2
1978–2012													
Mean	-23.7	-24.0	-23.7	-20.0	-12.4	-3.0	0.5	-0.6	-5.2	-13.2	-17.5	-21.9	-26.9
σ	5.4	4.5	4.0	3.8	3.3	1.9	0.9	1.3	2.6	3.0	4.6	4.8	3.4

Table 18.21. Number of days with positive mean diurnal air temperature ($T_d \geq 0^\circ\text{C}$) and mean, minimum and maximum number of such days recorded in particular months in many years.

Year	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	31	31	9	4	4	0	-
1979	0	1	0	0	0	16	31	31	24	5	0	0	108
1980	3	2	1	2	8	27	31	31	24	5	0	0	134
1981	0	0	0	0	3	18	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	3	7	0	1	-
1983	1	1	2	1	4	20	31	31	22	9	0	0	122
1984	0	1	2	1	11	28	31	31	26	13	8	13	165
1985	0	1	4	0	3	24	31	31	25	7	4	0	130
1986	2	0	3	0	11	30	31	31	12	10	3	2	135
1987	4	0	5	4	10	26	31	31	19	4	1	0	135
1988	1	1	0	0	9	26	31	31	12	0	0	0	111
1989	0	0	0	7	9	27	31	31	23	10	8	1	147
1990	1	5	0	5	7	29	31	31	30	11	0	3	153
1991	2	5	3	1	13	22	31	31	26	7	0	2	143
1992	1	1	0	3	5	29	31	31	28	2	3	0	134
1993	0	0	0	1	5	21	31	31	17	2	18	2	128
1994	0	2	1	4	2	27	31	29	23	1	0	4	124
1995	0	0	2	4	13	29	31	31	28	7	0	6	151
1996	7	1	12	1	2	26	31	31	21	12	6	0	150
1997	1	0	0	0	6	24	31	31	20	6	4	1	124
1998	0	0	0	0	1	29	31	31	22	10	5	1	130
1999	1	0	1	0	9	27	31	31	30	4	11	3	148
2000	3	0	0	0	8	28	31	31	26	22	10	1	160
2001	0	2	0	1	2	22	31	31	25	10	3	11	138
2002	1	0	0	4	7	30	31	31	19	11	4	5	143
2003	0	0	0	6	11	30	31	31	21	9	4	1	144
2004	0	0	4	4	8	25	31	31	26	8	2	3	142
2005	0	5	0	1	5	29	31	31	17	5	8	10	142
2006	13	2	0	17	13	30	31	31	18	4	9	3	171
2007	2	0	3	1	12	30	31	31	25	9	3	1	148
2008	3	2	0	0	10	29	31	31	27	4	1	3	141
2009	2	2	0	0	13	29	31	31	24	4	16	6	158
2010	8	1	0	0	15	23	31	31	29	10	0	1	149
2011	0	1	2	4	8	30	31	31	30	14	8	4	163
2012	11	7	7	0	7	29	31	31	25	15	5	4	172
1978–2009													
Mean	1.6	1.1	1.4	2.3	7.3	26.2	31	30.9	21.7	7.2	4.4	2.7	140
σ_n	2.6	1.5	2.5	3.4	3.9	3.7	0.0	0.4	6.1	4.3	4.6	3.3	14.5
Max	13	5	12	17	13	30	31	31	30	22	18	13	171
Min	0	0	0	0	0	16	31	29	3	0	0	0	108
1978–2012													
Mean	2.0	1.3	1.6	2.2	7.6	26.3	31	30.9	22.2	7.7	4.4	2.7	142
σ_n	3.2	1.8	2.6	3.3	4.0	3.8	0.0	0.3	6.2	4.5	4.6	3.3	15.7

Table 18.22. Positive degree-days in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	131.8	116.8	19.1	3.4	1.2	0.0	-
1979	0.0	0.2	0.0	0.0	0.0	21.6	153.4	115.7	43.2	12.8	2.9	0.0	349.8
1980	1.7	0.7	1.0	1.9	7.5	72.7	137.5	118.2	59.0	8.4	0.0	0.0	408.6
1981	0.0	0.0	0.0	0.0	3.1	27.1	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	1.2	11.6	0.0	0.1	-
1983	1.0	0.1	2.2	0.3	2.0	45.1	131.6	102.9	64.9	11.2	0.0	0.0	361.3
1984	0.0	0.1	3.0	0.5	15.0	64.0	132.7	122.6	64.3	42.7	7.5	15.2	467.6
1985	0.0	0.1	4.4	0.0	0.9	60.3	153.7	117.0	51.4	14.3	3.8	0.0	405.9
1986	2.0	0.0	1.9	0.0	6.6	67.4	130.6	124.2	31.0	15.8	5.5	1.7	386.7
1987	2.9	0.0	2.3	3.7	7.2	67.2	132.8	123.9	42.1	4.9	0.3	0.0	387.3
1988	0.5	0.1	0.0	0.0	10.7	51.7	125.5	118.0	37.3	0.0	0.0	0.0	343.8
1989	0.0	0.0	0.0	7.1	11.2	69.4	119.5	113.3	56.5	12.4	8.7	0.5	398.6
1990	0.5	6.0	0.0	6.3	5.3	67.3	166.5	140.6	134.4	20.9	0.0	3.2	551.0
1991	0.8	5.1	1.6	0.6	14.3	50.7	140.2	159.9	43.2	5.0	0.0	3.4	424.8
1992	0.7	0.4	0.0	3.5	4.2	72.6	154.2	121.8	79.0	1.1	1.2	0.0	438.7
1993	0.0	0.0	0.0	0.7	4.4	48.6	132.5	135.6	28.4	1.5	21.4	3.4	376.5
1994	0.0	0.4	0.6	1.8	1.8	58.8	115.8	93.3	32.8	1.1	0.0	4.0	310.4
1995	0.0	0.0	1.4	4.9	17.1	70.7	118.2	108.2	54.8	8.7	0.0	6.1	390.1
1996	7.8	0.3	8.4	0.2	0.3	38.7	124.4	120.6	52.5	17.8	3.8	0.0	374.8
1997	0.9	0.0	0.0	0.0	5.4	55.2	110.7	116.7	46.0	15.0	4.2	0.1	354.2
1998	0.0	0.0	0.0	0.0	0.2	53.0	165.5	156.8	37.8	12.8	8.2	0.1	434.4
1999	0.4	0.0	0.7	0.0	11.5	78.2	132.2	119.5	93.3	5.6	14.1	2.3	457.8
2000	0.3	0.0	0.0	0.0	6.1	57.4	148.3	126.0	79.9	71.1	13.7	0.9	503.7
2001	0.0	0.5	0.0	0.1	0.6	72.9	141.7	146.7	96.2	12.5	2.3	11.2	484.7
2002	1.3	0.0	0.0	1.9	11.1	95.3	171.3	165.1	44.7	34.0	3.5	9.6	537.8
2003	0.0	0.0	0.0	3.9	8.0	68.5	145.6	134.8	58.1	14.5	3.1	0.3	436.8
2004	0.0	0.0	2.4	3.9	7.9	45.6	145.6	107.7	63.6	11.1	0.5	1.4	389.7
2005	0.0	7.3	0.0	0.6	4.2	58.7	133.0	142.9	41.9	8.6	6.3	4.3	407.8
2006	18.8	1.6	0.0	20.6	23.4	91.9	145.7	141.3	50.4	5.2	13.6	5.6	518.1
2007	3.5	0.0	1.8	0.7	8.5	79.4	130.2	133.4	50.6	14.3	3.3	1.2	426.9
2008	4.5	0.6	0.0	0.0	6.3	73.1	129.9	121.1	92.0	5.6	0.8	1.6	435.5
2009	0.4	2.7	0.0	0.0	12.5	80.9	162.8	133.4	61.2	4.5	17.8	5.6	481.8
2010	6.6	0.2	0.0	0.0	14.3	53.3	118.5	112.2	75.2	31.4	0.0	0.4	412.1
2011	0.0	1.5	2.3	6.7	10.5	95.7	121.2	126.5	123.2	23.9	15.6	2.4	529.5
2012	10.0	7.0	7.2	0.0	3.8	67.1	146.5	143.0	100.4	22.2	7.0	3.8	518.0
1978-2009													
Mean	1.6	0.9	1.1	2.1	7.2	62.1	138.8	126.6	55.2	13.2	4.8	2.6	422.2
σ_n	3.7	1.9	1.8	4.0	5.6	16.8	15.6	16.7	25.7	14.0	5.8	3.7	59.7
Max	18.8	7.3	8.4	20.6	23.4	95.3	171.3	165.1	134.4	71.1	21.4	15.2	551.0
Min	0.0	0.0	0.0	0.0	0.0	21.6	110.7	93.3	1.2	0.0	0.0	0.0	310.4
1978-2012													
Mean	2.0	1.1	1.2	2.1	7.5	63.0	137.9	126.7	59.1	14.3	5.0	2.6	428.3
σ_n	3.9	2.1	2.0	4.0	5.5	17.1	15.6	16.4	28.3	13.9	5.9	3.6	62.1

Table 18.23. Negative degree-days in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	0.0	0.0	-48.6	-106.8	-248.8	-295.2	-
1979	-477.1	-465.2	-429.9	-422.1	-226.4	-24.8	0.0	0.0	-8.4	-100.5	-149.5	-295.2	-2599.1
1980	-372.5	-338.1	-362.6	-244.4	-97.9	-2.4	0.0	0.0	-5.0	-178.8	-402.9	-503.8	-2508.4
1981	-554.0	-253.1	-521.6	-338.7	-137.6	-14.8	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-53.0	-140.2	-204.4	-355.8	-
1983	-278.2	-378.6	-244.3	-297.6	-110.0	-20.7	0.0	0.0	-16.8	-142.9	-380.8	-475.3	-2345.2
1984	-223.4	-188.6	-356.6	-218.2	-96.7	-1.7	0.0	0.0	-3.5	-63.1	-88.1	-52.6	-1292.5
1985	-315.7	-229.2	-289.0	-327.1	-96.5	-6.3	0.0	0.0	-11.9	-142.7	-226.1	-348.8	-1993.3
1986	-424.2	-428.0	-274.7	-323.9	-81.8	0.0	0.0	0.0	-58.8	-76.6	-219.7	-308.6	-2196.3
1987	-281.7	-417.1	-341.5	-220.2	-112.9	-3.7	0.0	0.0	-29.5	-135.8	-245.0	-474.0	-2261.4
1988	-431.8	-304.9	-448.4	-427.1	-81.3	-2.4	0.0	0.0	-58.8	-244.9	-448.1	-542.6	-2990.3
1989	-453.6	-439.2	-386.9	-153.7	-48.7	-1.7	0.0	0.0	-7.8	-124.1	-221.7	-377.8	-2215.2
1990	-148.9	-217.1	-352.1	-194.1	-74.7	-1.0	0.0	0.0	0.0	-59.9	-291.9	-233.9	-1573.6
1991	-283.5	-180.5	-237.6	-292.6	-99.9	-9.0	0.0	0.0	-6.0	-106.9	-276.3	-316.1	-1808.4
1992	-332.3	-352.5	-294.6	-167.0	-64.7	-0.1	0.0	0.0	-1.7	-202.7	-139.9	-323.9	-1879.4
1993	-443.3	-370.5	-388.1	-340.4	-110.6	-6.6	0.0	0.0	-32.7	-233.0	-76.3	-292.7	-2294.2
1994	-443.9	-315.8	-219.6	-152.6	-102.9	-4.0	0.0	-1.6	-8.1	-198.3	-307.9	-194.1	-1948.8
1995	-441.5	-298.7	-375.4	-174.0	-94.4	-0.2	0.0	0.0	-1.3	-162.4	-362.7	-397.3	-2307.9
1996	-252.1	-349.1	-191.6	-264.8	-132.6	-6.9	0.0	0.0	-18.0	-84.8	-106.1	-442.6	-1848.6
1997	-480.2	-350.4	-308.7	-337.9	-85.9	-6.0	0.0	0.0	-14.5	-110.4	-185.6	-228.4	-2108.0
1998	-463.5	-451.8	-323.0	-304.2	-140.6	-0.5	0.0	0.0	-6.5	-74.8	-122.8	-317.3	-2205.0
1999	-256.7	-304.5	-187.4	-263.5	-90.9	-0.6	0.0	0.0	0.0	-108.6	-76.2	-264.7	-1553.1
2000	-220.3	-271.7	-381.4	-341.3	-114.3	-1.2	0.0	0.0	-4.4	-13.9	-71.6	-256.1	-1676.2
2001	-201.7	-200.9	-424.4	-339.5	-85.0	-11.6	0.0	0.0	-3.4	-118.0	-250.8	-244.8	-1880.1
2002	-333.3	-319.4	-429.2	-132.0	-126.4	0.0	0.0	0.0	-23.4	-97.8	-121.0	-223.9	-1806.4
2003	-508.5	-255.7	-468.1	-229.1	-68.7	0.0	0.0	0.0	-23.4	-98.6	-141.5	-475.6	-2269.2
2004	-426.8	-418.6	-155.0	-85.3	-80.5	-5.3	0.0	0.0	-2.6	-77.7	-279.9	-157.3	-1689.0
2005	-181.7	-150.8	-387.3	-237.4	-27.8	-1.0	0.0	0.0	-23.6	-115.5	-82.1	-84.8	-1292.0
2006	-72.8	-210.3	-372.1	-31.0	-28.1	0.0	0.0	0.0	-17.3	-94.9	-94.3	-133.4	-865.6
2007	-232.1	-208.8	-174.3	-260.1	-73.8	0.0	0.0	0.0	-3.2	-40.7	-104.6	-174.2	-1271.8
2008	-158.0	-203.1	-416.2	-279.7	-55.4	-0.6	0.0	0.0	-4.1	-123.3	-179.7	-188.6	-1608.7
2009	-306.6	-257.0	-274.5	-351.8	-38.5	-0.3	0.0	0.0	-3.0	-76.5	-36.3	-113.1	-1457.6
2010	-168.7	-220.0	-409.5	-195.4	-30.1	-3.3	0.0	0.0	-0.2	-92.4	-251.0	-294.5	-1665.1
2011	-388.0	-263.8	-307.5	-117.0	-61.5	0.0	0.0	0.0	0.0	-51.0	-128.5	-146.3	-1463.6
2012	-67.2	-111.5	-116.0	-235.6	-65.7	-0.1	0.0	0.0	-13.2	-42.0	-123.7	-152.4	-927.4
1978-2009													
Mean	-333.3	-304.3	-333.9	-258.4	-92.9	-4.4	0.0	-0.1	-16.1	-117.9	-198.1	-293.3	-1922.3
σ_n	124.2	90.5	94.0	93.8	38.9	6.2	0.0	0.3	17.6	52.9	118.7	127.2	462.2
Max	-554.0	-465.2	-521.6	-427.1	-226.4	-24.8	0.0	-1.6	-58.8	-244.9	-448.1	-542.6	-2990.3
Min	-72.8	-150.8	-155.0	-31.0	-27.8	0.0	0.0	0.0	0.0	-13.9	-36.3	-52.6	-865.6
1978-2012													
Mean	-307.0	-281.3	-313.9	-239.6	-84.3	-3.1	0.0	0.0	-15.1	-113.0	-195.5	-284.9	-1874.7
σ_n	151.6	117.5	125.7	111.9	46.3	7.8	0.0	0.3	17.2	53.4	105.5	126.0	468.8

Table 18.24. Monthly and annual mean values of water vapour pressure [hPa] in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Mean
1978	-	-	-	-	-	-	7.8	8.1	5.0	4.2	2.8	2.5	-
1979	1.5	1.4	1.8	1.8	3.2	5.7	7.8	7.4	6.4	4.4	3.7	2.5	4.0
1980	2.0	2.3	2.2	3.0	4.4	6.4	8.0	7.8	6.7	3.4	1.8	1.3	4.1
1981	1.1	2.9	1.3	2.2	4.0	5.9	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	7.6	4.7	4.1	3.3	2.3	-
1983	2.8	1.8	3.1	2.5	4.4	6.0	7.9	7.5	6.5	3.9	1.8	1.5	4.1
1984	3.4	3.6	2.1	3.2	4.8	6.9	8.2	8.0	6.9	5.4	4.6	5.5	5.2
1985	2.4	3.1	2.7	2.4	4.6	6.8	8.4	7.4	6.3	4.1	2.8	2.0	4.4
1986	1.9	1.5	3.0	2.4	4.9	7.0	7.8	8.0	5.1	4.7	3.1	2.5	4.3
1987	2.7	1.7	2.4	3.4	4.5	6.3	7.7	7.2	5.8	4.3	3.0	1.5	4.2
1988	1.8	2.5	1.8	1.8	4.8	6.8	7.8	7.8	5.6	3.1	1.7	1.4	3.9
1989	1.8	1.7	2.2	3.8	5.1	6.7	8.2	7.5	6.4	4.3	3.3	2.0	4.4
1990	4.2	3.2	2.3	3.5	4.4	7.0	8.8	7.7	8.3	5.3	2.6	3.4	5.1
1991	3.0	3.9	3.3	2.7	4.8	6.4	7.8	8.7	6.0	4.4	2.8	2.6	4.7
1992	2.7	2.1	3.0	3.9	5.1	7.0	8.1	7.6	7.2	3.2	4.1	2.4	4.7
1993	1.8	2.0	2.2	2.4	4.4	6.5	7.8	8.1	5.8	3.0	5.4	2.7	4.4
1994	1.9	2.5	3.6	4.0	4.4	6.6	8.3	7.5	6.3	3.3	2.5	3.7	4.5
1995	1.8	2.6	2.1	3.8	4.8	6.8	7.8	7.4	6.7	3.4	2.0	1.9	4.3
1996	3.1	2.1	3.7	2.6	3.7	6.0	7.9	7.6	6.3	4.6	4.3	1.6	4.5
1997	1.6	2.1	2.7	2.2	4.6	6.2	7.8	7.6	5.9	4.0	3.5	3.2	4.3
1998	1.7	1.5	2.5	2.4	3.8	6.2	8.3	8.3	5.8	4.5	4.1	2.5	4.3
1999	2.9	2.3	3.6	2.6	4.7	7.1	7.5	7.4	7.3	4.1	4.7	2.6	4.7
2000	3.2	2.7	2.0	2.3	4.2	6.1	7.9	7.4	6.8	6.8	4.8	2.7	4.7
2001	3.4	3.2	1.8	2.4	4.6	6.5	7.9	7.9	7.2	4.3	2.7	3.0	4.6
2002	2.4	2.2	1.8	4.2	4.2	7.3	8.4	8.6	5.6	4.6	4.4	3.2	4.7
2003	1.3	2.6	1.5	2.9	4.4	6.9	8.2	8.0	5.9	4.4	3.9	1.5	4.3
2004	1.8	1.6	4.3	4.9	4.7	6.4	8.5	7.8	6.5	4.8	2.4	3.9	4.8
2005	3.7	3.9	2.0	3.1	4.7	6.8	8.1	8.2	5.7	4.3	4.8	4.7	5.0
2006	5.2	3.0	1.9	5.7	5.4	6.9	8.4	8.3	5.8	4.3	4.6	4.0	5.3
2007	3.0	3.1	3.8	2.8	4.7	6.9	8.2	7.7	6.6	5.3	4.3	3.7	5.0
2008	4.0	3.3	1.8	2.6	5.2	6.5	8.1	7.9	7.5	4.2	3.5	3.7	4.9
2009	2.5	2.8	3.0	2.1	5.5	7.0	8.1	8.0	6.5	4.8	5.9	4.5	5.1
2010	4.1	3.0	1.9	3.5	5.7	6.7	8.2	7.4	7.1	4.9	2.8	2.6	4.8
2011	2.1	2.8	2.7	4.5	5.1	7.0	8.0	8.0	8.2	5.2	4.3	4.0	5.2
2012	5.3	4.5	4.4	2.8	4.7	6.8	8.0	8.1	6.9	5.2	3.9	3.8	5.4
1978–2009													
Mean	2.5	2.5	2.5	3.0	4.6	6.6	8.1	7.8	6.3	4.3	3.5	2.8	4.6
σ	1.0	0.7	0.8	0.9	0.5	0.4	0.3	0.4	0.8	0.8	1.1	1.1	0.4
Max	5.2	3.9	4.3	5.7	5.5	7.3	8.8	8.7	8.3	6.8	5.9	5.5	5.3
Min	1.1	1.4	1.3	1.8	3.2	5.7	7.5	7.2	4.7	3.0	1.7	1.3	3.9
1978–2012													
Mean	2.7	2.6	2.6	3.0	4.6	6.6	8.1	7.8	6.4	4.4	3.5	2.9	4.6
σ	1.1	0.8	0.8	0.9	0.5	0.4	0.3	0.4	0.8	0.8	1.1	1.0	0.4

Values calculated from air temperature and relative humidity.

Table 18.25. Monthly and annual mean values of relative air humidity [%] measured in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Mean
1978	-	-	-	-	-	-	84	91	76	75	74	74	-
1979	69	75	73	75	76	83	81	83	85	76	75	72	77
1980	72	79	75	77	76	78	86	87	85	71	68	66	77
1981	66	80	68	73	76	82	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	87	75	79	76	80	-
1983	77	72	77	74	81	81	86	87	83	75	66	69	77
1984	81	80	70	78	82	86	89	88	86	81	79	84	82
1985	74	80	77	76	82	87	86	83	83	77	68	69	79
1986	77	73	80	75	83	87	85	88	77	76	73	74	79
1987	76	76	78	83	81	78	83	79	81	82	79	71	79
1988	75	79	78	76	81	87	86	87	84	77	77	81	81
1989	80	81	81	76	78	82	91	85	82	78	78	74	81
1990	83	79	78	79	73	87	88	82	88	82	76	84	82
1991	84	86	82	80	84	84	83	88	79	80	78	81	82
1992	85	83	87	83	84	85	83	84	87	71	80	77	82
1993	77	80	82	80	80	85	84	87	84	72	87	79	81
1994	80	85	85	81	79	83	94	89	86	73	78	82	83
1995	77	81	76	80	81	83	87	85	85	67	71	72	79
1996	79	75	79	69	70	80	87	85	83	76	77	71	78
1997	76	78	80	73	78	79	89	86	78	71	77	78	79
1998	77	74	78	72	74	78	83	85	77	74	76	76	77
1999	75	73	78	71	79	86	81	82	85	73	76	69	77
2000	75	76	71	76	77	76	82	81	83	85	77	72	78
2001	78	76	72	80	79	81	84	83	83	79	71	75	78
2002	76	75	77	82	78	84	83	87	76	76	82	75	79
2003	66	74	71	70	71	85	87	86	78	76	77	69	76
2004	75	73	85	84	78	84	89	89	80	79	69	81	80
2005	79	79	72	78	78	86	87	87	78	78	80	80	80
2006	81	73	68	81	77	80	88	88	77	75	79	76	79
2007	74	75	79	74	78	83	90	83	84	80	77	79	80
2008	81	78	72	74	83	78	88	88	89	78	77	81	81
2009	74	79	83	73	83	83	82	86	82	81	86	82	81
2010	84	75	75	80	84	85	92	84	86	80	73	77	81
2011	77	81	80	84	81	81	89	87	89	78	80	79	82
2012	84	81	79	71	76	84	84	86	81	77	73	76	79
1978–2009													
Mean	76.6	77.5	77.0	76.7	78.6	82.7	85.9	85.7	81.9	76.5	76.3	75.9	79.4
σ_n	4.6	3.7	5.0	4.1	3.6	3.2	3.1	2.7	3.9	3.9	4.8	5.0	2.0
Max	85	86	87	84	84	87	94	91	89	85	87	84	83
Min	66	72	68	69	70	76	81	79	75	67	66	66	76
1978–2012													
Mean	77.1	77.7	77.1	76.9	78.8	82.8	86.1	85.7	82.2	76.7	76.2	76.0	79.5
σ_n	4.7	3.6	4.8	4.2	3.6	3.1	3.2	2.6	3.9	3.8	4.7	4.8	1.9

Table 18.26. Minimum values of relative humidity [%] measured during term observations in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Min
1978	-	-	-	-	-	-	50	56	47	39	48	40	-
1979	41	48	53	44	48	60	42	52	63	44	52	36	36
1980	40	45	38	43	50	42	47	29	59	38	41	30	29
1981	24	57	30	36	52	45	64	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	58	49	46	47	58	-
1983	51	32	49	48	60	43	65	66	55	42	44	36	32
1984	49	37	35	46	62	44	66	57	66	62	49	54	35
1985	54	48	35	49	58	55	43	61	36	51	43	46	35
1986	51	47	51	42	57	62	65	66	55	55	55	39	39
1987	44	55	47	53	56	55	56	44	56	50	48	46	44
1988	45	53	49	48	59	61	57	53	57	46	46	45	45
1989	41	58	41	27	43	42	68	49	40	50	49	49	27
1990	61	53	44	53	44	62	62	51	64	62	53	55	44
1991	57	68	47	45	60	55	60	64	54	43	52	52	43
1992	59	44	64	51	56	60	48	61	59	44	58	45	44
1993	37	44	49	52	43	51	48	63	48	44	52	40	37
1994	41	56	63	60	46	58	62	55	55	42	46	55	41
1995	36	55	51	55	46	61	53	63	60	27	40	42	27
1996	37	39	51	37	44	65	53	55	61	49	55	49	37
1997	45	42	55	44	56	39	44	61	48	38	51	56	38
1998	53	50	36	33	48	49	55	69	51	50	41	47	33
1999	45	45	52	30	62	57	43	55	54	42	42	39	30
2000	36	49	41	55	42	53	51	44	57	61	57	41	36
2001	49	49	43	50	55	40	56	51	56	41	32	37	32
2002	50	38	51	53	39	51	55	60	36	41	64	36	36
2003	40	37	38	43	44	64	57	56	49	44	44	37	37
2004	31	45	58	69	57	57	65	69	49	42	45	56	31
2005	54	43	40	44	53	71	39	71	57	54	30	33	30
2006	51	40	37	60	49	58	57	62	46	56	50	49	37
2007	38	33	48	39	48	60	63	64	49	48	48	56	33
2008	42	45	29	36	46	46	54	63	62	50	22	38	22
2009	36	39	53	37	48	55	51	53	49	53	60	57	36
2010	47	42	46	48	60	67	75	54	56	51	35	33	33
2011	43	46	53	60	38	47	65	54	70	41	46	44	38
2012	55	44	40	41	42	58	54	52	53	16	40	30	16
1978–2009													
Mean	44.6	46.5	45.9	46.1	51.0	54.0	54.8	57.5	53.1	46.9	47.2	45.1	35.1
σ	8.6	8.1	8.9	9.4	6.7	8.3	8.0	8.7	7.5	7.7	8.7	8.2	5.9
Max	61	68	64	69	62	71	68	71	66	62	64	58	45
Min	24	32	29	27	39	39	39	29	36	27	22	30	22
1978–2012													
Mean	44.9	46.2	46.0	46.4	50.6	54.3	55.7	57.1	53.7	45.8	46.6	44.3	34.6
σ	8.4	7.8	8.6	9.3	7.1	8.4	8.6	8.4	7.8	9.1	8.6	8.4	6.6

Table 18.27. Monthly and annual totals of atmospheric precipitation [mm] in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	46.1	84.4	11.9	29.6	76.3	14.7	-
1979	17.3	28.8	10.6	8.7	18.2	26.3	1.7	35.5	44.4	43.2	8.3	17.3	260.3
1980	20.8	49.1	12.1	22.2	9.1	28.8	26.9	92.8	113.7	65.6	19.6	4.2	464.9
1981	19.8	57.5	38.5	23.9	26.3	15.1	8.9	39.0	77.5	6.2	47.3	11.5	371.5
1982	25.1	54.1	30.6	89.1	34.0	13.6	55.1	73.8	2.6	46.3	22.1	33.8	480.2
1983	21.0	18.8	55.3	8.0	5.5	48.6	40.6	41.2	38.9	25.0	7.0	17.7	327.6
1984	34.4	61.5	13.9	32.8	21.4	26.5	28.3	31.6	38.0	44.7	66.2	54.0	453.3
1985	24.2	44.2	59.1	2.1	33.9	12.6	14.9	15.4	35.6	27.2	21.4	31.9	322.5
1986	26.7	43.5	72.6	18.2	22.5	48.7	74.7	16.0	35.6	53.4	8.6	9.2	429.7
1987	29.6	7.7	26.8	22.4	5.3	1.4	39.6	16.5	10.9	34.6	31.9	3.5	230.2
1988	17.6	0.3	23.8	15.0	22.7	107.1	47.4	11.6	44.0	24.6	8.8	20.5	343.4
1989	21.1	14.3	20.0	22.0	5.2	48.0	57.6	48.8	80.8	87.4	47.6	28.7	481.5
1990	53.1	17.4	17.1	51.9	17.2	18.3	31.7	57.0	114.4	74.5	17.9	57.5	528.0
1991	44.2	40.7	38.4	42.7	14.9	8.4	19.6	83.0	17.4	50.5	18.5	46.9	425.2
1992	54.0	13.5	21.3	6.3	44.3	91.7	15.8	29.0	59.6	12.9	32.5	16.1	397.0
1993	18.4	32.3	35.2	33.0	18.6	16.6	3.0	46.5	71.7	9.2	111.7	27.0	423.2
1994	4.7	53.0	21.0	16.3	8.4	58.5	136.5	121.0	70.1	53.2	23.6	33.7	600.0
1995	27.4	6.1	27.3	24.6	48.1	11.6	44.2	17.7	50.3	12.3	44.9	125.4	439.9
1996	83.7	17.4	43.3	15.9	6.9	32.9	79.5	121.5	145.4	29.2	47.3	12.9	635.9
1997	31.9	34.9	22.0	7.5	14.6	16.0	75.5	104.8	25.9	25.1	67.5	73.6	499.3
1998	18.5	7.5	29.7	11.2	21.0	10.8	1.5	39.1	33.0	56.6	61.3	30.5	320.7
1999	28.1	8.8	12.2	14.0	11.2	52.3	14.1	72.4	230.4	34.1	47.8	6.3	531.7
2000	32.4	8.2	19.2	9.4	24.5	2.5	59.4	42.1	76.0	133.6	13.5	29.4	450.2
2001	23.6	7.1	7.6	17.3	31.4	6.7	15.9	13.5	127.8	29.3	48.5	34.0	362.7
2002	24.1	8.7	9.3	42.6	8.1	27.2	36.2	86.1	18.3	53.5	38.0	53.1	405.2
2003	7.4	35.2	21.7	24.7	12.9	16.6	81.5	32.7	66.0	27.0	41.0	26.1	392.8
2004	24.8	9.4	62.1	64.2	8.0	9.1	84.3	115.6	57.8	71.1	13.6	36.2	556.2
2005	22.4	56.6	55.5	7.6	19.4	10.2	74.4	61.6	41.9	47.1	43.1	36.3	476.1
2006	108.3	17.2	13.1	20.0	45.6	62.9	40.7	40.5	35.7	37.7	54.6	42.6	518.9
2007	25.2	26.0	35.3	13.8	9.0	24.5	16.1	38.7	76.0	94.9	39.3	30.0	428.8
2008	28.8	47.2	1.9	19.0	18.9	18.5	26.5	52.6	147.7	21.6	21.7	35.8	440.1
2009	26.4	35.7	26.4	18.7	11.3	40.8	14.7	14.0	60.4	85.3	92.5	43.4	469.6
2010	95.9	8.9	14.9	26.4	20.3	19.1	59.0	21.4	71.4	73.2	10.8	27.2	448.5
2011	26.2	50.1	62.8	32.2	40.6	1.9	24.5	34.8	148.3	113.2	65.7	16.8	617.1
2012	76.4	68.0	28.1	7.3	25.0	7.6	46.6	123.8	110.2	21.7	12.1	35.0	561.8
1978–2009													
Mean	30.5	27.8	28.5	23.4	19.3	29.4	41.0	53.0	64.4	45.2	38.9	32.6	434.4
σ_n	20.2	18.5	17.3	18.2	11.9	24.8	30.2	32.8	47.6	27.6	24.9	23.2	90.1
Max	108.3	61.5	72.6	89.1	48.1	107.1	136.5	121.5	230.4	133.6	111.7	125.4	635.9
Min	4.7	0.3	1.9	2.1	5.2	1.4	1.5	11.6	2.6	6.2	7.0	3.5	230.2
1978–2012													
Mean	33.6	29.1	29.1	23.3	20.1	27.7	41.2	53.6	68.3	47.3	38.1	32.1	443.9
σ_n	23.9	19.9	18.0	17.9	12.1	24.8	29.6	34.6	48.9	29.8	25.5	22.7	95.1

In italics are given values in the period July 1981 – July 1982, based on M. Sobik data.

Table 18.28. Maximum diurnal totals of atmospheric precipitation [mm] in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual max
1978	-	-	-	-	-	-	29.7	19.7	4.2	6.6	28.1	3.2	-
1979	3.7	7.6	3.6	2.1	5.7	11.7	1.4	7.6	12.3	18.2	2.0	5.9	18.2
1980	5.5	13.6	5.0	7.7	5.2	12.8	11.4	18.6	21.9	21.4	8.1	1.1	21.9
1981	9.0	10.0	16.5	8.6	9.2	3.9	4.1	9.0	17.4	3.6	15.9	4.1	17.4
1982	9.8	12.1	5.4	34.5	8.3	3.5	10.2	22.6	0.7	15.3	3.6	13.7	34.5
1983	6.0	3.9	20.6	2.6	2.2	25.8	15.1	16.5	7.2	8.6	3.6	5.3	25.8
1984	7.2	12.5	4.1	12.1	5.7	3.4	9.6	6.0	8.4	8.2	14.1	8.4	14.1
1985	7.8	10.0	11.4	0.8	19.9	6.2	5.1	5.0	10.3	5.1	7.6	9.6	19.9
1986	9.8	12.0	12.6	4.8	6.4	11.3	40.5	5.1	12.6	11.1	3.1	4.9	40.5
1987	11.1	2.2	10.1	6.1	2.7	0.4	9.6	4.4	3.0	7.9	12.8	1.2	12.8
1988	6.1	0.2	8.4	8.8	12.6	16.5	20.3	4.0	16.8	12.8	4.2	9.3	20.3
1989	5.7	4.3	5.9	5.0	1.9	15.6	11.0	31.7	14.3	16.2	12.2	11.6	31.7
1990	10.6	4.5	6.0	12.0	3.2	9.5	19.1	33.4	43.6	18.0	3.7	8.0	43.6
1991	11.2	11.3	6.7	10.2	7.5	1.9	8.5	13.1	8.7	18.3	6.4	18.6	18.6
1992	14.0	4.0	8.7	2.3	9.0	26.0	5.2	7.9	7.9	5.0	7.1	4.6	26.0
1993	6.4	8.6	13.9	10.9	5.6	5.8	1.9	16.8	26.8	2.3	11.7	13.7	26.8
1994	1.9	15.2	3.6	7.0	3.6	25.1	33.1	58.3	38.2	25.1	9.6	8.6	58.3
1995	8.8	1.6	8.9	9.7	15.5	3.8	19.0	5.9	8.3	9.7	14.4	43.4	43.4
1996	13.7	3.6	8.9	6.4	1.8	20.2	25.3	22.0	52.6	8.8	15.2	6.1	52.6
1997	5.3	14.1	6.8	2.4	4.3	10.2	11.2	13.5	9.1	8.2	15.4	16.9	16.9
1998	6.8	2.9	6.1	4.6	6.0	5.0	0.6	18.7	15.1	27.1	16.4	13.1	27.1
1999	12.8	2.3	4.5	3.1	7.4	8.3	3.9	27.6	32.7	20.5	14.2	2.0	32.7
2000	5.7	2.5	6.8	5.8	11.5	0.9	13.8	26.7	16.8	27.6	6.9	12.6	27.6
2001	7.4	1.6	5.4	9.2	12.7	3.1	3.2	6.6	43.9	8.0	14.8	10.6	43.9
2002	5.9	6.7	7.1	12.5	4.4	13.1	10.6	19.6	4.1	12.4	13.0	20.2	20.2
2003	3.7	10.3	12.6	4.7	4.2	4.2	18.2	11.2	14.2	11.5	16.7	17.7	18.2
2004	7.5	5.1	30.3	25.2	2.0	3.8	20.3	32.4	22.7	24.2	3.6	17.5	32.4
2005	8.2	20.3	16.4	1.9	4.3	3.9	25.4	10.0	11.3	16.0	9.4	9.6	25.4
2006	14.4	4.0	2.8	5.9	35.3	20.2	11.8	10.3	15.9	12.1	12.2	17.0	35.3
2007	6.8	6.6	15.4	3.6	4.7	14.0	6.1	8.9	24.7	13.0	10.0	11.0	24.7
2008	9.0	18.0	0.5	11.0	6.2	5.0	14.0	27.0	27.5	7.0	10.0	5.9	27.5
2009	10.0	12.0	12.0	11.0	2.3	13.0	9.0	7.0	24.0	24.1	27.2	10.8	27.2
2010	22.3	4.1	4.9	18.8	4.9	14.2	25.2	7.9	17.5	23.2	2.3	9.5	25.2
2011	7.8	21.4	14.4	7.5	20.8	1.6	7.5	10.9	31.0	29.3	13.0	4.8	31.0
2012	14.9	16.6	15.4	2.9	7.1	2.2	21.3	28.8	59.8	9.8	2.4	11.6	59.8
1978–2009													
Mean	8.1	7.9	9.3	8.1	7.5	9.9	13.4	16.5	18.0	13.6	11.0	10.8	28.6
σ_n	3.1	5.2	6.0	6.7	6.6	7.4	9.5	11.6	12.7	7.0	6.2	7.8	11.0
Max	14.4	20.3	30.3	34.5	35.3	26.0	40.5	58.3	52.6	27.6	28.1	43.4	58.3
Min	1.9	0.2	0.5	0.8	1.8	0.4	0.6	4.0	0.7	2.3	2.0	1.1	12.8
1978–2012													
Mean	8.7	8.4	9.5	8.3	7.8	9.6	13.8	16.4	20.7	16.8	13.4	13.2	30.3
σ_n	4.0	5.8	6.0	6.8	6.8	7.5	9.6	11.6	18.6	16.3	16.3	17.0	16.4

In italics are given values in the period July 1981 – July 1982, based on M. Sobik data.

Table 18.29. Number of days with precipitation ≥ 0.0 mm in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	15	27	13	24	20	26	-
1979	21	17	16	17	27	19	3	18	23	19	20	17	217
1980	15	19	16	13	11	12	11	25	27	22	14	15	200
1981	21	23	16	19	18	22	4	17	22	21	25	18	226
1982	18	22	23	23	18	19	21	27	11	21	17	16	236
1983	23	23	19	15	20	22	21	17	24	17	15	15	231
1984	25	27	19	20	22	22	18	23	23	21	24	26	270
1985	15	19	18	13	22	17	15	17	19	24	18	20	217
1986	21	21	27	13	19	20	18	23	22	22	19	17	242
1987	24	17	16	21	14	13	25	21	17	26	18	14	226
1988	18	9	20	17	13	24	18	17	24	25	15	20	220
1989	19	12	20	22	16	18	25	19	27	26	26	21	251
1990	31	21	23	24	20	21	21	15	24	26	21	28	275
1991	22	26	24	23	25	15	17	25	21	26	24	24	272
1992	24	18	27	22	29	21	16	21	23	18	23	22	264
1993	18	20	19	19	19	20	5	19	19	18	27	27	230
1994	22	23	24	16	25	21	30	26	24	22	17	23	273
1995	20	19	14	20	20	14	20	17	26	16	18	22	226
1996	26	23	26	17	19	18	18	24	25	23	26	12	257
1997	24	20	18	14	21	9	24	23	19	30	24	28	254
1998	23	14	23	13	23	11	12	15	18	24	29	24	229
1999	23	18	28	18	14	27	18	17	25	23	24	14	249
2000	22	17	18	15	21	10	21	19	26	29	23	22	243
2001	26	21	13	21	21	17	20	14	22	21	18	20	234
2002	22	15	11	22	13	17	15	19	18	22	24	22	220
2003	15	23	19	19	17	19	18	12	24	26	24	17	233
2004	17	12	28	23	23	23	23	23	21	22	17	29	261
2005	20	22	15	20	23	20	17	23	21	27	27	26	261
2006	29	20	10	28	20	22	18	23	14	26	22	22	254
2007	22	15	22	18	18	21	17	18	17	27	25	20	240
2008	25	21	13	14	21	19	17	16	26	26	24	24	246
2009	23	23	29	11	24	20	14	17	22	24	28	26	261
2010	31	20	18	19	24	12	25	14	25	22	20	20	250
2011	20	19	22	24	20	12	23	18	26	22	23	26	255
2012	26	24	27	18	24	20	22	25	23	22	20	29	280
1978–2009													
Mean	21.7	19.4	19.8	18.4	19.9	18.5	17.3	19.9	21.5	23.3	21.8	21.2	242.5
σ	3.7	4.1	5.2	4.0	4.1	4.2	5.8	3.9	4.0	3.3	4.1	4.6	19.1
Max	31	27	29	28	29	27	30	27	27	30	29	29	275
Min	15	9	10	11	11	9	3	12	11	16	14	12	200
1978–2012													
Mean	22.1	19.5	20.0	18.6	20.1	18.1	17.9	19.9	21.7	23.1	21.7	21.5	244.1
σ	4.0	4.0	5.2	4.0	4.1	4.3	5.8	4.0	4.0	3.3	4.0	4.7	19.7

In italics are given values in the period July 1981 – July 1982, based on M. Sobik data.

Table 18.30. Number of days with precipitation ≥ 0.1 mm in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	9	23	7	18	19	17	-
1979	16	15	14	11	17	9	2	14	17	15	15	11	156
1980	12	16	12	11	5	11	7	21	22	16	11	8	152
1981	17	21	12	13	11	13	4	16	18	5	14	9	153
1982	15	19	20	16	16	12	18	17	7	17	14	14	185
1983	15	20	15	13	9	18	17	11	18	10	7	12	165
1984	22	23	9	17	16	18	12	21	17	19	21	22	217
1985	12	14	17	8	17	12	10	10	12	18	14	15	159
1986	17	18	19	8	10	15	14	16	11	17	9	12	166
1987	16	10	13	16	7	5	17	16	12	22	12	6	152
1988	14	2	14	11	10	18	11	10	19	14	7	12	142
1989	16	9	15	20	11	13	22	11	20	18	22	11	188
1990	22	15	16	17	14	11	14	9	21	24	13	25	201
1991	19	23	19	17	13	11	10	19	8	16	13	17	185
1992	20	13	19	9	18	15	11	15	21	9	16	10	176
1993	13	17	15	14	9	8	4	12	11	9	26	9	147
1994	9	18	17	11	11	13	27	21	17	11	10	16	181
1995	17	16	8	17	19	10	15	13	19	7	11	18	170
1996	22	14	24	12	9	12	17	22	21	17	23	6	199
1997	21	15	11	11	11	5	23	22	12	18	21	26	196
1998	12	10	19	9	13	6	4	11	9	16	19	15	143
1999	14	12	10	14	9	21	13	15	24	13	18	9	172
2000	18	13	13	7	12	5	18	13	20	21	10	15	165
2001	15	13	7	13	11	12	17	10	20	20	15	16	169
2002	20	9	6	14	2	14	9	17	13	13	20	15	152
2003	5	13	13	15	7	15	13	7	13	16	9	7	133
2004	9	5	21	12	10	9	18	21	15	15	9	19	163
2005	13	16	11	10	15	9	15	21	17	18	20	22	187
2006	23	14	9	18	11	17	16	23	9	15	18	15	188
2007	15	13	19	11	10	16	11	14	13	24	19	15	180
2008	16	16	6	7	17	10	13	14	21	12	20	18	170
2009	18	18	22	7	18	15	6	8	16	13	21	17	179
2010	25	8	5	10	15	6	20	7	19	17	14	13	159
2011	16	18	17	18	14	2	16	13	21	13	20	13	181
2012	19	21	19	8	8	9	13	19	17	10	11	23	177
1978–2009													
Mean	15.9	14.5	14.4	12.5	11.9	12.2	13.0	15.4	15.6	15.5	15.5	14.3	170.7
σ	4.1	4.6	4.8	3.5	4.0	4.1	5.7	4.7	4.8	4.5	5.0	5.1	19.3
Max	23	23	24	20	19	21	27	23	24	24	26	26	217
Min	5	2	6	7	2	5	2	7	7	5	7	6	133
1978–2012													
Mean	16.3	14.6	14.3	12.5	11.9	11.6	13.3	15.3	15.9	15.3	15.5	14.5	170.9
σ	4.3	4.8	5.0	3.6	4.0	4.4	5.7	4.8	4.7	4.5	5.0	5.2	18.9

In italics are given values in the period July 1981 – July 1982, based on M. Sobik data.

Table 18.31. Number of days with precipitation ≥ 10.0 mm in particular months, years, and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual total
1978	-	-	-	-	-	-	2	3	0	0	3	0	-
1979	0	0	0	0	0	1	0	0	1	1	0	0	3
1980	0	1	0	0	0	1	1	3	5	3	0	0	14
1981	0	1	1	0	0	0	0	0	2	0	2	0	6
1982	0	1	0	3	0	0	1	4	0	1	0	1	11
1983	0	0	2	0	0	1	1	1	0	0	0	0	5
1984	0	2	0	1	0	0	0	0	0	0	3	0	6
1985	0	1	2	0	1	0	0	0	1	0	0	0	5
1986	0	1	2	0	0	1	2	0	2	1	0	0	9
1987	1	0	1	0	0	0	0	0	0	0	1	0	3
1988	0	0	0	0	1	4	2	0	1	1	0	0	9
1989	0	0	0	0	0	1	1	1	2	2	2	1	10
1990	1	0	0	1	0	0	1	2	3	2	0	0	10
1991	1	1	0	1	0	0	0	3	0	2	0	2	10
1992	1	0	0	0	0	3	0	0	0	0	0	0	4
1993	0	0	1	2	0	0	0	1	1	0	3	1	9
1994	0	2	0	0	0	2	4	3	2	2	0	0	15
1995	0	0	0	0	2	0	1	0	0	0	2	4	9
1996	3	0	0	0	0	1	3	5	4	0	2	0	18
1997	0	1	0	0	0	1	2	5	0	0	3	2	14
1998	0	0	0	0	0	0	0	1	1	2	3	1	8
1999	1	0	0	0	0	0	0	3	9	1	1	0	15
2000	0	0	0	0	1	0	2	1	4	4	0	1	13
2001	0	0	0	0	2	0	0	0	2	0	2	1	7
2002	0	0	0	2	0	1	1	3	0	1	1	2	11
2003	0	1	1	0	0	0	2	1	2	1	2	1	11
2004	0	0	1	2	0	0	3	2	2	2	0	1	13
2005	0	2	4	0	0	0	2	1	1	1	0	0	11
2006	3	0	0	0	1	1	1	1	1	1	2	1	12
2007	0	0	1	0	0	1	0	0	3	3	1	1	10
2008	0	1	0	1	0	0	1	2	5	0	1	0	11
2009	1	2	1	1	0	2	0	0	2	3	3	1	16
2010	3	0	0	1	0	1	2	0	3	1	0	0	11
2011	0	1	1	0	1	0	0	1	5	4	2	0	15
2012	4	2	1	0	0	0	1	5	3	0	0	2	18
1978–2009													
Mean	0.4	0.5	0.5	0.5	0.3	0.7	1.0	1.4	1.8	1.1	1.2	0.7	9.9
σ_n	0.8	0.7	0.9	0.8	0.6	1.0	1.1	1.5	2.0	1.1	1.2	0.9	3.8
Max	3	2	4	3	2	4	4	5	9	4	3	4	18
Min	0	0	0	0	0	0	0	0	0	0	0	0	3
1978–2012													
Mean	0.6	0.6	0.6	0.4	0.3	0.6	1.0	1.5	1.9	1.1	1.1	0.7	10.4
σ_n	1.1	0.7	0.9	0.8	0.6	0.9	1.1	1.6	2.0	1.2	1.2	0.9	4.0

In italics are given values in the period July 1981 – July 1982, based on M. Sobik data.

Table 18.32. Number of days with fog (horizontal visibility below 0.5 NM) in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Sum
1978	-	-	-	-	-	-	4	6	1	1	0	0	-
1979	0	1	0	1	0	2	4	8	3	2	0	1	22
1980	1	0	1	1	0	1	2	5	5	1	0	0	17
1981	0	0	1	2	6	2	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	1	0	6	0	0	-
1983	0	1	0	0	0	7	8	7	6	0	1	0	30
1984	0	0	2	0	4	3	4	5	3	1	2	0	24
1985	0	0	1	0	2	6	4	1	1	2	0	0	17
1986	1	0	0	0	3	11	8	12	1	0	0	0	36
1987	0	0	0	1	3	0	7	1	3	4	1	0	20
1988	0	3	3	0	3	10	10	8	6	0	0	0	43
1989	0	0	2	3	3	5	12	11	4	0	1	0	41
1990	1	0	1	3	0	12	9	5	8	3	0	0	42
1991	0	0	2	2	1	2	6	6	0	0	0	0	19
1992	0	2	2	0	3	6	4	3	11	0	0	0	31
1993	0	0	0	0	0	12	15	6	6	0	2	0	41
1994	0	0	0	2	0	1	23	13	5	0	0	0	44
1995	0	0	0	0	3	2	17	8	9	0	2	3	44
1996	0	0	1	1	0	2	7	15	3	0	0	0	29
1997	0	0	0	0	1	7	17	9	5	0	5	0	44
1998	0	0	0	2	0	4	13	9	4	0	4	2	38
1999	0	0	0	0	2	9	8	3	4	0	1	0	27
2000	0	0	0	0	1	3	7	2	0	2	1	0	16
2001	0	0	0	2	0	5	7	3	2	0	0	1	20
2002	0	0	0	1	4	8	5	11	0	3	0	0	32
2003	0	0	0	2	0	6	8	9	3	1	2	1	32
2004	0	0	5	3	0	3	19	14	8	3	0	0	55
2005	0	0	0	0	0	4	13	2	2	2	1	0	24
2006	3	0	0	4	7	0	3	6	3	0	0	0	20
2007	0	0	0	0	0	3	6	3	0	0	0	0	12
2008	0	0	0	0	1	1	10	13	12	1	0	0	38
2009	1	1	3	2	6	4	6	8	5	1	7	2	46
2010	5	0	0	1	3	6	12	8	13	8	0	0	56
2011	2	0	5	2	4	2	16	7	12	6	5	0	61
2012	4	0	1	0	2	4	10	11	1	2	1	1	37
1978-2009													
Mean	0.2	0.3	0.8	1.1	1.8	4.7	8.8	7.1	4.0	1.2	1.1	0.4	32.0
σ_n	0.6	0.7	1.2	1.2	2.1	3.5	5.1	4.0	3.2	1.6	1.7	0.8	11.1
Max	3	3	5	4	7	12	23	15	12	6	7	3	55
Min	0	0	0	0	0	0	2	1	0	0	0	0	12
1978-2011													
Mean	0.5	0.3	0.9	1.1	1.9	4.7	9.2	7.2	4.4	1.5	1.1	0.4	33.3
σ_n	1.2	0.7	1.4	1.2	2.1	3.4	5.1	3.8	3.7	2.1	1.8	0.7	27.1

Table 18.33. Monthly and annual values of humidity index of Ivanov (Wk) in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1978	-	-	-	-	-	-	186	628	48	140	585	131	-
1979	336	907	177	163	134	139	6	141	240	203	46	143	146
1980	244	723	152	188	43	98	123	478	586	330	253	91	260
1981	642	624	994	262	142	72	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	449	11	280	154	515	-
1983	196	282	452	75	35	213	189	220	180	128	76	337	187
1984	317	499	139	264	132	143	166	174	207	221	352	331	240
1985	236	435	572	24	218	75	66	61	168	150	120	305	172
1986	496	951	768	201	144	281	324	88	148	234	55	86	245
1987	268	175	340	231	33	5	151	52	49	247	299	71	123
1988	317	4	545	298	129	647	224	60	259	203	208	1066	258
1989	542	483	374	126	23	199	426	219	352	482	375	374	278
1990	425	150	233	393	68	106	159	202	609	409	177	645	276
1991	607	462	391	507	105	42	74	421	67	298	187	618	243
1992	978	312	379	54	291	452	57	121	334	72	217	182	229
1993	388	645	695	488	111	88	12	230	402	60	887	290	269
1994	114	1046	243	119	47	266	1534	779	418	316	276	291	402
1995	567	87	380	182	278	50	228	81	260	52	516	1623	253
1996	756	230	314	109	30	134	404	539	695	130	245	215	309
1997	812	565	270	82	73	60	467	505	96	100	454	598	263
1998	443	204	353	101	107	38	5	160	118	229	316	324	153
1999	223	91	86	102	59	273	48	268	1080	149	210	41	234
2000	225	78	228	117	128	8	207	146	329	684	61	207	197
2001	174	51	118	257	167	27	63	51	542	162	330	245	176
2002	277	103	179	306	46	121	128	385	63	232	270	361	195
2003	163	295	418	151	46	83	380	149	245	127	233	500	196
2004	430	172	559	452	40	45	487	740	224	353	98	259	303
2005	160	377	714	66	94	54	371	300	161	256	235	202	228
2006	583	116	135	96	179	221	214	214	127	172	290	226	213
2007	172	188	246	109	43	107	101	149	361	458	203	207	198
2008	213	368	28	162	110	63	149	280	933	121	148	287	233
2009	251	370	329	214	63	178	49	65	259	477	625	290	235
2010	849	68	238	214	117	99	494	91	375	384	81	273	254
2011	405	602	755	246	217	7	148	174	884	492	406	107	324
2012	493	434	161	48	109	36	183	561	414	87	56	199	228
1978–2009													
Mean	385	366	360	197	104	143	235	258	317	245	264	364	231
σ_n	218	280	225	129	70	138	288	197	255	146	178	317	56
Max	978	1046	994	507	291	647	1534	779	1080	684	887	1623	402
Min	114	4	28	24	23	5	5	51	11	52	46	41	123
1978–2012													
Mean	403	367	363	194	108	134	237	270	331	248	266	342	235
σ_n	223	275	229	126	70	134	274	205	263	149	184	304	56

Table 18.34. Monthly and annual values of WCT index in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1978	-	-	-	-	-	-	2.5	1.0	-4.5	-7.9	-15.2	-15.9	-
1979	-25.0	-27.7	-26.2	-22.7	-14.8	-4.2	1.7	-0.6	-3.5	-8.4	-12.0	-17.0	-13.4
1980	-21.6	-19.5	-20.1	-16.1	-7.2	-1.5	1.5	0.1	-2.0	-11.5	-21.9	-26.6	-12.2
1981	-28.1	-18.4	-28.1	-20.2	-10.4	-3.7	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-1.4	-7.1	-10.1	-14.6	-21.1	-
1983	-17.8	-23.0	-15.9	-18.4	-8.3	-2.9	0.7	0.0	-4.0	-10.3	-21.3	-25.0	-12.2
1984	-14.4	-14.9	-20.1	-16.1	-7.9	-2.1	0.6	1.4	-1.0	-5.8	-9.0	-6.4	-8.0
1985	-18.7	-15.8	-16.3	-17.4	-7.8	0.1	1.3	-0.2	-2.2	-9.6	-14.9	-20.8	-10.2
1986	-22.8	-24.6	-16.6	-17.7	-8.6	-1.0	0.4	1.9	-4.8	-7.6	-14.4	-17.4	-11.1
1987	-17.5	-25.2	-19.5	-15.1	-7.7	-0.6	1.6	0.5	-3.8	-10.7	-15.4	-24.9	-11.5
1988	-23.2	-19.1	-24.3	-23.6	-7.4	-2.1	0.2	0.7	-5.1	-15.0	-23.7	-26.9	-14.1
1989	-24.1	-25.6	-21.8	-12.1	-5.6	-0.8	0.9	0.6	-2.9	-9.2	-14.4	-20.9	-11.3
1990	-12.9	-15.5	-20.5	-13.5	-6.6	-1.1	2.6	0.5	0.6	-6.7	-17.8	-16.1	-8.9
1991	-18.0	-13.8	-14.9	-18.0	-8.1	-2.4	1.3	1.5	-2.9	-9.3	-17.7	-18.9	-10.1
1992	-19.6	-22.0	-18.2	-13.1	-7.3	-2.0	2.4	0.2	-1.5	-12.6	-11.4	-20.0	-10.4
1993	-25.4	-22.4	-22.7	-18.7	-10.0	-2.4	0.7	0.0	-3.6	-14.7	-7.5	-18.6	-12.1
1994	-24.8	-19.2	-15.5	-12.4	-8.8	-2.3	1.0	0.0	-3.6	-12.2	-18.8	-14.0	-10.9
1995	-25.5	-20.4	-22.1	-12.1	-7.5	-1.5	0.3	0.2	-2.1	-11.3	-20.2	-21.9	-12.0
1996	-15.3	-19.9	-13.1	-16.3	-9.8	-4.0	1.5	0.3	-3.0	-8.9	-9.7	-23.1	-10.1
1997	-25.0	-22.7	-18.6	-18.9	-7.9	-1.9	0.5	0.1	-3.4	-9.6	-12.7	-14.9	-11.2
1998	-25.3	-28.9	-20.3	-17.9	-10.1	-2.0	1.8	1.4	-3.0	-9.1	-10.7	-18.9	-11.9
1999	-16.8	-21.0	-14.2	-17.0	-8.4	-0.8	0.6	0.6	-1.1	-9.5	-8.9	-16.3	-9.4
2000	-14.8	-18.8	-20.9	-19.9	-10.0	-1.7	1.6	0.4	-1.6	-2.6	-7.8	-16.0	-9.4
2001	-14.4	-15.1	-23.6	-19.8	-8.7	-2.3	1.1	1.1	-1.7	-8.3	-15.9	-15.0	-10.2
2002	-19.9	-22.0	-24.4	-11.9	-9.8	0.0	2.5	2.5	-3.3	-7.4	-10.1	-14.6	-9.9
2003	-25.5	-18.0	-25.7	-14.7	-6.9	-0.2	1.5	2.1	-3.1	-9.1	-12.1	-24.8	-11.4
2004	-24.6	-24.7	-11.9	-9.7	-8.6	-2.6	1.2	-0.1	-2.5	-7.4	-17.7	-13.2	-10.2
2005	-14.2	-12.3	-22.1	-16.0	-8.6	-2.5	1.4	1.1	-4.5	-9.6	-9.2	-9.2	-8.8
2006	-8.2	-15.7	-22.1	-7.0	-5.2	-1.1	1.6	2.0	-2.9	-8.6	-9.0	-10.9	-7.3
2007	-15.6	-15.0	-12.6	-16.2	-8.5	-1.8	0.7	0.3	-2.3	-7.0	-9.8	-13.0	-8.4
2008	-12.2	-15.1	-23.6	-17.1	-6.3	-2.0	1.0	0.8	-0.7	-10.4	-13.8	-12.6	-9.3
2009	-18.0	-18.4	-17.5	-19.7	-6.2	-1.0	1.4	1.2	-3.1	-7.4	-6.5	-10.5	-8.8
2010	-12.4	-16.8	-21.9	-14.6	-6.3	-2.4	0.6	0.7	-2.1	-7.2	-15.7	-18.3	-9.7
2011	-22.1	-18.6	-17.0	-10.5	-6.7	-0.2	0.2	0.0	0.0	-6.8	-9.9	-11.6	-8.6
2012	-8.3	-10.1	-10.0	-14.7	-8.2	-1.7	1.3	1.0	-1.5	-5.3	-11.1	-11.3	-6.6
1978–2009													
Mean	-19.6	-19.8	-19.8	-16.3	-8.3	-1.8	1.3	0.7	-2.9	-9.3	-13.7	-17.6	-10.5
σ_n	5.1	4.3	4.3	3.7	1.8	1.1	0.7	0.8	1.5	2.5	4.6	5.2	1.6
Max	-8.2	-12.3	-11.9	-7.0	-5.2	0.1	2.6	2.5	0.6	-2.6	-6.5	-6.4	-7.3
Min	-28.1	-28.9	-28.1	-23.6	-14.8	-4.2	0.2	-1.4	-7.1	-15.0	-23.7	-26.9	-14.1
1978–2012													
Mean	-19.2	-19.4	-19.5	-16.0	-8.2	-1.8	1.2	0.7	-2.8	-9.0	-13.6	-17.2	-10.3
σ_n	5.4	4.5	4.4	3.7	1.8	1.1	0.7	0.8	1.5	2.5	4.5	5.2	1.7

Table 18.35. Number of days with snow cover in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1978	-	-	-	-	-	-	0	0	15	31	30	31	-
1979	31	28	31	30	31	25	0	0	0	4	25	21	226
1980	31	29	31	30	31	10	0	0	5	9	30	31	237
1981	31	28	31	30	31	30	0	0	0	3	21	31	236
1982	31	28	31	30	31	15	0	8	4	15	30	31	254
1983	31	28	31	30	31	21	0	0	1	14	24	31	242
1984	31	29	31	30	31	4	0	0	5	18	30	31	240
1985	31	28	31	30	31	25	0	0	0	17	21	31	245
1986	31	28	31	30	31	8	0	0	8	26	30	31	254
1987	31	28	31	30	31	13	0	0	6	31	30	31	262
1988	31	29	31	30	31	16	0	0	11	26	30	31	266
1989	31	28	31	30	25	0	0	0	0	24	30	31	230
1990	31	28	31	30	31	15	0	0	0	18	30	31	245
1991	31	28	31	30	31	17	0	0	4	30	30	31	263
1992	31	29	31	30	31	18	0	0	0	22	30	31	253
1993	31	28	31	30	31	19	0	0	0	3	13	17	203
1994	3	28	31	30	31	9	0	4	4	22	30	31	223
1995	31	28	31	30	31	2	0	0	0	12	30	28	223
1996	31	29	31	30	31	30	1	1	12	12	28	31	267
1997	31	28	31	30	31	17	0	0	0	22	30	31	251
1998	31	28	31	30	31	27	0	0	0	6	24	27	235
1999	31	28	31	30	31	4	0	1	2	26	26	31	241
2000	31	29	31	30	31	2	0	0	0	5	23	31	213
2001	31	28	31	30	31	14	0	0	6	28	30	31	260
2002	31	28	31	30	31	5	0	0	2	0	29	28	215
2003	31	17	31	30	31	15	0	0	1	25	16	29	226
2004	31	29	31	30	31	11	0	0	1	15	30	31	240
2005	31	28	31	30	31	9	0	0	8	25	30	31	254
2006	31	28	31	30	24	0	0	0	3	31	30	31	239
2007	31	28	31	30	31	24	0	1	4	29	30	31	270
2008	31	29	31	30	31	30	1	0	1	27	30	31	272
2009	31	28	31	30	31	17	0	0	9	28	30	31	266
2010	26	20	18	19	19	10	2	2	5	13	22	21	177
2011	19	19	21	21	19	3	0	0	1	20	23	23	169
2012	24	19	30	30	29	5	0	0	5	4	4	31	181
1978–2009													
Mean	30.1	27.9	31.0	30.0	30.6	14.6	0.1	0.5	3.5	18.9	27.5	29.9	243.6
σ_n	5.0	2.1	0.0	0.0	1.6	9.1	0.2	1.6	4.1	9.6	4.5	3.1	18.1
Max	31	29	31	30	31	30	1	8	15	31	30	31	272
Min	3	17	31	30	24	0	0	0	0	0	13	17	203
1978–2012													
Mean	29.5	27.1	30.3	29.4	29.9	13.8	0.1	0.5	3.5	18.3	26.5	29.5	237.6
σ_n	5.3	3.2	2.8	2.4	3.2	9.0	0.4	1.5	3.9	9.6	5.9	3.5	26.1

Table 18.36. Mean thickness of snow cover [cm] in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1978	-	-	-	-	-	-	0	0	4	4	7	16	-
1979	24	29	31	33	30	29	0	0	0	2	4	7	24
1980	17	28	36	45	44	21	0	0	1	2	7	6	24
1981	7	20	37	40	40	35	0	0	0	3	4	3	24
1982	2	3	6	10	13	10	0	3	1	9	18	40	12
1983	38	44	49	54	49	31	0	0	9	4	3	6	33
1984	17	25	28	38	43	10	0	0	2	4	7	10	22
1985	16	25	48	56	62	39	0	0	0	3	3	2	30
1986	4	17	31	44	31	11	0	0	1	2	2	3	16
1987	10	15	19	20	25	7	0	0	3	2	5	13	13
1988	14	14	18	19	16	6	0	0	8	7	7	17	14
1989	22	27	24	17	7	0	0	0	0	10	12	14	17
1990	35	35	37	44	45	19	0	0	0	7	14	19	30
1991	35	35	34	36	39	15	0	0	1	14	18	15	27
1992	28	45	40	33	32	17	0	0	0	5	7	3	24
1993	3	12	19	33	34	22	0	0	0	2	3	6	18
1994	9	10	17	15	14	8	0	3	2	5	21	18	14
1995	19	21	24	24	27	6	0	0	0	3	11	21	20
1996	29	37	39	53	55	25	2	2	3	3	7	12	30
1997	28	34	46	35	24	12	0	0	0	7	14	26	26
1998	46	49	59	64	68	43	0	0	0	2	3	8	43
1999	14	15	13	13	11	6	0	1	2	2	3	5	10
2000	16	16	13	21	15	7	0	0	0	2	2	5	13
2001	11	16	16	17	30	20	0	0	7	9	19	21	17
2002	31	23	24	32	27	9	0	0	2	0	5	4	21
2003	4	9	15	24	20	9	0	0	1	2	3	5	11
2004	7	6	21	23	14	5	0	0	1	8	5	6	11
2005	8	12	13	23	20	14	0	0	1	1	6	14	12
2006	10	20	22	21	5	0	0	0	1	7	14	8	13
2007	17	39	29	28	23	3	0	0	0	3	8	14	18
2008	18	23	27	31	34	7	0	0	0	3	12	23	20
2009	30	28	27	23	14	0	0	0	0	4	5	17	17
2010	21	22	22	21	13	5	0	0	1	2	2	2	18
2011	2	7	20	17	12	2	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-	-	-	-
1978-2009													
Mean	18.3	23.5	27.8	31.2	29.4	14.5	0.1	0.3	1.6	4.4	8.0	12.2	20.1
σ_n	11.5	11.9	12.5	13.7	16.0	11.4	0.4	0.8	2.3	3.1	5.5	8.3	7.8
Max	46	49	59	64	68	43	2	3	9	14	21	40	43
Min	2	3	6	10	5	0	0	0	0	0	2	2	10
1978-2011													
Mean	17.9	23.0	27.4	30.5	28.4	13.8	0.1	0.3	1.5	4.3	7.9	11.9	20.1
σ_n	11.5	11.9	12.2	13.6	16.0	11.4	0.3	0.8	2.3	3.1	5.5	8.4	7.7

Table 18.37. Maximum thickness of snow cover [cm] in particular months and years and the multiannual means, maxima and minima.

Year	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Max
1978	-	-	-	-	-	-	0	0	8	8	20	25	-
1979	31	40	38	43	44	40	0	0	0	4	41	13	44
1980	19	44	41	58	47	33	0	0	1	8	14	7	58
1981	16	41	48	47	47	46	0	0	0	4	8	8	48
1982	6	11	11	35	25	20	0	11	2	12	30	45	45
1983	55	58	58	58	60	46	0	0	9	11	9	13	60
1984	31	39	41	52	51	16	0	0	2	6	14	17	52
1985	20	37	65	60	68	64	0	0	0	6	8	8	68
1986	15	22	41	52	44	20	0	0	2	3	4	6	52
1987	13	17	21	28	30	10	0	0	4	4	14	19	30
1988	20	17	43	28	27	9	0	0	18	9	10	20	43
1989	31	36	35	28	15	0	0	0	0	25	20	27	36
1990	40	39	42	53	51	37	0	0	0	15	17	35	53
1991	45	38	39	48	44	22	0	0	1	25	32	21	48
1992	47	57	64	38	40	32	0	0	0	13	19	11	64
1993	8	20	26	41	40	29	0	0	0	2	6	16	41
1994	13	26	30	23	20	11	0	4	3	8	28	23	30
1995	26	22	30	35	43	6	0	0	0	13	25	31	43
1996	37	43	44	57	59	52	2	2	6	5	13	22	59
1997	37	62	53	42	33	19	0	0	0	18	25	43	62
1998	56	55	70	78	80	65	0	0	0	3	10	18	80
1999	28	20	17	19	19	7	0	1	3	4	7	15	28
2000	26	21	37	30	20	7	0	0	0	3	5	8	37
2001	25	21	21	27	43	26	0	0	10	18	34	35	43
2002	50	34	38	42	32	15	0	0	3	0	12	17	50
2003	9	14	29	27	25	14	0	0	1	4	6	7	29
2004	12	15	28	29	20	6	0	0	1	14	10	10	29
2005	14	17	24	30	26	19	0	0	4	3	15	19	30
2006	25	22	29	24	11	0	0	0	1	19	30	18	30
2007	30	52	35	34	34	13	0	1	0	7	17	20	52
2008	25	31	28	40	40	25	0	0	1	8	19	32	40
2009	34	35	33	32	30	4	0	0	1	14	6	35	35
2010	32	25	35	23	22	7	0	0	0	10	10	15	35
2011	20	20	31	35	15	8	0	0	0	4	8	14	35
2012	9	9	14	6	21	2	0	0	4	5	8	11	21
1978–2009													
Mean	27.2	32.5	37.4	39.9	37.7	23.0	0.1	0.6	2.5	9.3	16.5	20.1	45.8
σ_n	13.8	14.5	14.0	13.7	16.0	17.7	0.4	2.1	3.9	6.6	9.7	10.6	13.2
Max	56	62	70	78	80	65	2	11	18	25	41	45	80
Min	6	11	11	19	11	0	0	0	0	0	4	6	28
1978–2012													
Mean	26.6	31.2	36.4	38.3	36.1	21.5	0.1	0.5	2.4	9.0	15.8	19.5	44.4
σ_n	13.6	14.6	14.0	14.5	16.1	17.6	0.3	2.0	3.8	6.4	9.5	10.3	13.5