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Zakład Klimatologii i Ochrony Atmosfery
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Położenie obserwatorium (observatory location)

Współrzędne geograficzne (coordinates): 15°30'44"E 50°27'47"N

Wysokość nad poziomem morza (altitude): 1364 m

Czas podawany w bieuletynie jest czasem UTC.

UTC time is used in the bulletin.

| Parametr Parameter | Opis | Description |
|--------------------|--|---------------------------------------|
| D | Dzień | Day |
| T | Temperatura powietrza | Air temperature |
| Tmax | Temperatura maksymalna | Maximum temperature |
| Tmin | Temperatura minimalna | Minimum temperature |
| Tmin5 | Temperatura minimalna przy gruncie | Minimum temperature near the ground |
| U | Wilgotność względna | Relative humidity |
| e | Ciśnienie pary wodnej | Vapour pressure |
| P | Ciśnienie atmosferyczne na poziomie stacji | Atmospheric pressure at station level |
| V | Prędkość wiatru | Wind speed |
| α | Kierunek wiatru | Wind direction |
| R | Dobowa suma opadu | Precipitation |
| HS | Wysokość pokrywy śnieżnej | Snow depth |
| SD | Usłonecznienie | Sunshine duration |
| NA | Brak danych | No data |
| m | Średnia dobowa | Daily mean |
| • | Zjawisko nie wystąpiło | Lack of phenomenon |

Tabela 1. Temperatura powietrza (T), wilgotność względna (U) i ciśnienie atmosferyczne (P)**Table 1. Air temperature (T), relative humidity (U) and atmospheric pressure (P)**

| D | T [°C] | | | | | | | | U [%] | | | | | P [hPa] | | | | |
|----|--------|------|------|------|------|------|------|-------|-------|-----|-----|-----|-----|---------|-------|-------|-------|-------|
| | 00 | 07 | 12 | 18 | Tm | Tmax | Tmin | Tmin5 | 00 | 06 | 12 | 18 | Um | 00 | 06 | 12 | 18 | Pm |
| 1 | 0.3 | 0.2 | 2.0 | 2.2 | 1.2 | 2.6 | -0.6 | -0.6 | 100 | 100 | 100 | 100 | 100 | 857.5 | 859.3 | 859.1 | 858.1 | 858.5 |
| 2 | 3.9 | 4.1 | 3.6 | 1.5 | 3.3 | 4.2 | 0.0 | 0.0 | 100 | 99 | 100 | 100 | 100 | 859.4 | 858.5 | 858.7 | 859.8 | 859.1 |
| 3 | 1.0 | 0.4 | 1.6 | 2.4 | 1.4 | 3.7 | 0.1 | -0.4 | 100 | 100 | 100 | 98 | 100 | 860.7 | 861.8 | 865.4 | 864.8 | 863.2 |
| 4 | 2.8 | 2.8 | 6.4 | 6.9 | 4.7 | 8.2 | 1.9 | -1.8 | 96 | 93 | 73 | 73 | 84 | 864.1 | 861.0 | 859.0 | 856.1 | 860.0 |
| 5 | 6.8 | 7.8 | 13.2 | 7.9 | 8.9 | 14.3 | 5.4 | 0.2 | 67 | 60 | 50 | 63 | 60 | 854.7 | 854.2 | 854.1 | 852.5 | 853.9 |
| 6 | 6.2 | 7.4 | 4.0 | 4.3 | 5.5 | 8.1 | 3.5 | 3.5 | 71 | 52 | 100 | 90 | 78 | 850.0 | 847.5 | 848.0 | 848.9 | 848.6 |
| 7 | 2.9 | 0.0 | 0.3 | 0.4 | 0.9 | 4.4 | -0.4 | -1.4 | 98 | 100 | 100 | 97 | 99 | 849.1 | 850.2 | 852.1 | 851.0 | 850.6 |
| 8 | 1.4 | 1.8 | 3.0 | 2.1 | 2.1 | 3.5 | 0.0 | -1.4 | 81 | 81 | 87 | 100 | 87 | 848.5 | 845.0 | 846.0 | 844.4 | 846.0 |
| 9 | 0.4 | -0.4 | 1.8 | 1.8 | 0.9 | 2.8 | -0.6 | -0.4 | 100 | 100 | 97 | 88 | 96 | 846.0 | 845.5 | 845.1 | 844.8 | 845.4 |
| 10 | 0.8 | -0.7 | 2.0 | -0.4 | 0.4 | 3.0 | -1.0 | -1.5 | 95 | 99 | 72 | 100 | 92 | 847.3 | 849.5 | 851.1 | 853.2 | 850.3 |
| 11 | -1.0 | -1.0 | -0.8 | -0.5 | -0.8 | -0.1 | -1.9 | -3.5 | 97 | 99 | 99 | 100 | 99 | 854.9 | 855.1 | 854.5 | 851.4 | 854.0 |
| 12 | -1.0 | -1.0 | -0.3 | -1.0 | -0.8 | 0.0 | -1.7 | -3.3 | 99 | 99 | 96 | 99 | 98 | 849.0 | 847.7 | 850.2 | 851.3 | 849.5 |
| 13 | -2.7 | -3.0 | -2.0 | -0.4 | -2.0 | -0.4 | -3.4 | -3.5 | 99 | 99 | 98 | 100 | 99 | 849.6 | 848.2 | 846.0 | 845.5 | 847.3 |
| 14 | -1.2 | -3.3 | -1.2 | -1.7 | -1.9 | -0.3 | -3.9 | -2.7 | 100 | 99 | 97 | 100 | 99 | 844.8 | 846.8 | 848.8 | 849.4 | 847.5 |
| 15 | -1.5 | -2.0 | -2.6 | -2.5 | -2.2 | -1.3 | -3.3 | -2.0 | 100 | 100 | 99 | 99 | 100 | 850.5 | 852.1 | 856.1 | 859.6 | 854.6 |
| 16 | -2.0 | -3.1 | -1.4 | -2.9 | -2.4 | -1.2 | -3.4 | -3.3 | 99 | 99 | 99 | 97 | 99 | 862.5 | 864.1 | 863.9 | 864.2 | 863.7 |
| 17 | -3.9 | -4.2 | -0.7 | -1.0 | -2.5 | -0.3 | -4.5 | -4.6 | 97 | 98 | 99 | 96 | 98 | 866.6 | 869.4 | 872.8 | 872.3 | 870.3 |
| 18 | -1.7 | -2.1 | 2.1 | 1.5 | 0.0 | 2.4 | -3.0 | -6.6 | 95 | 94 | 69 | 75 | 83 | 872.1 | 871.2 | 871.0 | 869.5 | 871.0 |
| 19 | 0.8 | 0.1 | 3.4 | 3.5 | 2.0 | 5.5 | -0.7 | -1.7 | 94 | 98 | 53 | 67 | 78 | 868.6 | 867.0 | 866.8 | 864.1 | 866.6 |
| 20 | 2.6 | 2.2 | 6.9 | 6.3 | 4.5 | 8.5 | 1.0 | -3.0 | 75 | 64 | 50 | 57 | 62 | 861.3 | 857.8 | 855.5 | 854.7 | 857.3 |
| 21 | 5.2 | 5.6 | 8.7 | 6.5 | 6.5 | 10.2 | 3.5 | 0.4 | 60 | 48 | 53 | 68 | 57 | 856.2 | 858.7 | 862.3 | 862.9 | 860.0 |
| 22 | 5.2 | 5.4 | 10.1 | 7.8 | 7.1 | 11.3 | 3.2 | -2.4 | 69 | 61 | 45 | 56 | 58 | 863.4 | 862.3 | 861.1 | 858.3 | 861.3 |
| 23 | 5.5 | 2.5 | 4.0 | -1.0 | 2.8 | 7.8 | -1.5 | -2.0 | 69 | 100 | 71 | 99 | 85 | 856.8 | 854.2 | 852.9 | 851.7 | 853.9 |
| 24 | -5.0 | -7.8 | -7.6 | -6.6 | -6.8 | -1.0 | -7.8 | -9.3 | 97 | 95 | 95 | 90 | 94 | 852.1 | 852.5 | 854.4 | 855.6 | 853.6 |
| 25 | -5.4 | -5.2 | -2.6 | -7.0 | -5.1 | -2.4 | -7.0 | -10.2 | 89 | 97 | 99 | 98 | 96 | 854.9 | 851.4 | 851.9 | 853.6 | 853.0 |
| 26 | -8.1 | -8.3 | -5.1 | -6.1 | -6.9 | -4.5 | -9.4 | -16.1 | 94 | 90 | 93 | 94 | 93 | 853.8 | 853.5 | 854.4 | 854.6 | 854.1 |
| 27 | -7.5 | -6.3 | -3.6 | -3.6 | -5.3 | -3.2 | -7.8 | -13.1 | 96 | 98 | 84 | 98 | 94 | 854.0 | 850.4 | 846.2 | 843.7 | 848.6 |
| 28 | -3.6 | -7.6 | -5.2 | -4.9 | -5.3 | -3.3 | -8.4 | -8.5 | 97 | 93 | 97 | 97 | 96 | 841.7 | 841.9 | 844.1 | 844.8 | 843.1 |
| 29 | -5.3 | -6.6 | -5.1 | -5.2 | -5.6 | -4.8 | -7.1 | -7.2 | 98 | 98 | 97 | 97 | 98 | 843.7 | 844.3 | 844.7 | 846.1 | 844.7 |
| 30 | -5.4 | -5.9 | -4.1 | -3.9 | -4.8 | -3.6 | -5.9 | -5.9 | 98 | 99 | 98 | 98 | 98 | 845.7 | 843.6 | 843.6 | 845.8 | 844.7 |

Tabela 2. Prędkość (V) i kierunek (α) wiatru, dobowa suma opadu (R) i wysokość pokrywy śnieżnej (HS)
Table 2. Wind speed (V) and direction (α), daily sum of precipitation (R) and snow cover depth (HS)

| D | V [m/s] | | | | α [1-32] | | | R[mm] | HS[cm] |
|----|---------|----|----|------|-----------------|----|----|-------|--------|
| | 06 | 12 | 18 | Vm | 06 | 12 | 18 | | |
| 1 | 14 | 21 | 17 | 17.3 | 22 | 22 | 22 | 10.0 | 87 |
| 2 | 18 | 17 | 15 | 16.7 | 22 | 22 | 26 | 1.5 | 78 |
| 3 | 11 | 6 | 8 | 8.3 | 24 | 22 | 20 | 0.1 | 71 |
| 4 | 14 | 15 | 15 | 14.7 | 20 | 20 | 18 | • | 67 |
| 5 | 8 | 1 | 7 | 5.3 | 20 | 20 | 16 | • | 57 |
| 6 | 1 | 14 | 12 | 9.0 | 20 | 22 | 22 | 2.8 | 48 |
| 7 | 10 | 11 | 14 | 11.7 | 22 | 22 | 20 | • | 41 |
| 8 | 18 | 15 | 16 | 16.3 | 20 | 22 | 22 | 0.2 | 36 |
| 9 | 13 | 16 | 12 | 13.7 | 22 | 20 | 22 | 0.6 | 36 |
| 10 | 5 | 6 | 7 | 6.0 | 26 | 26 | 26 | 1.3 | 32 |
| 11 | 8 | 12 | 10 | 10.0 | 22 | 22 | 22 | 12.1 | 31 |
| 12 | 13 | 6 | 7 | 8.7 | 20 | 22 | 22 | 2.7 | 44 |
| 13 | 12 | 17 | 15 | 14.7 | 20 | 22 | 20 | 16.4 | 39 |
| 14 | 13 | 12 | 14 | 13.0 | 24 | 22 | 22 | 4.3 | 51 |
| 15 | 11 | 12 | 7 | 10.0 | 22 | 24 | 26 | 5.7 | 51 |
| 16 | 6 | 5 | 6 | 5.7 | 28 | 24 | 26 | 6.3 | 54 |
| 17 | 11 | 8 | 11 | 10.0 | 4 | 4 | 4 | • | 57 |
| 18 | 10 | 7 | 11 | 9.3 | 4 | 4 | 4 | 0.3 | 54 |
| 19 | 9 | 7 | 6 | 7.3 | 4 | 4 | 16 | • | 48 |
| 20 | 14 | 19 | 18 | 17.0 | 20 | 20 | 18 | • | 40 |
| 21 | 14 | 5 | 7 | 8.7 | 20 | 16 | 14 | • | 30 |
| 22 | 8 | 5 | 0 | 4.3 | 14 | 12 | 0 | • | 24 |
| 23 | 4 | 5 | 8 | 5.7 | 12 | 6 | 4 | 8.6 | 17 |
| 24 | 9 | 11 | 6 | 8.7 | 4 | 2 | 28 | 3.5 | 22 |
| 25 | 17 | 12 | 7 | 12.0 | 24 | 22 | 28 | 5.4 | 18 |
| 26 | 5 | 7 | 4 | 5.3 | 28 | 20 | 24 | 1.2 | 24 |
| 27 | 15 | 21 | 18 | 18.0 | 20 | 20 | 20 | 14.4 | 25 |
| 28 | 12 | 15 | 14 | 13.7 | 24 | 20 | 22 | 6.0 | 31 |
| 29 | 10 | 13 | 11 | 11.3 | 26 | 22 | 26 | 23.1 | 34 |
| 30 | 15 | 28 | 18 | 20.3 | 26 | 26 | 26 | 28.1 | 63 |

Tabela 3. Liczba dni charakterystycznych w bieżącym miesiącu oraz średnia liczba dni charakterystycznych dla tego miesiąca w wieloleciu 1960 - 2000

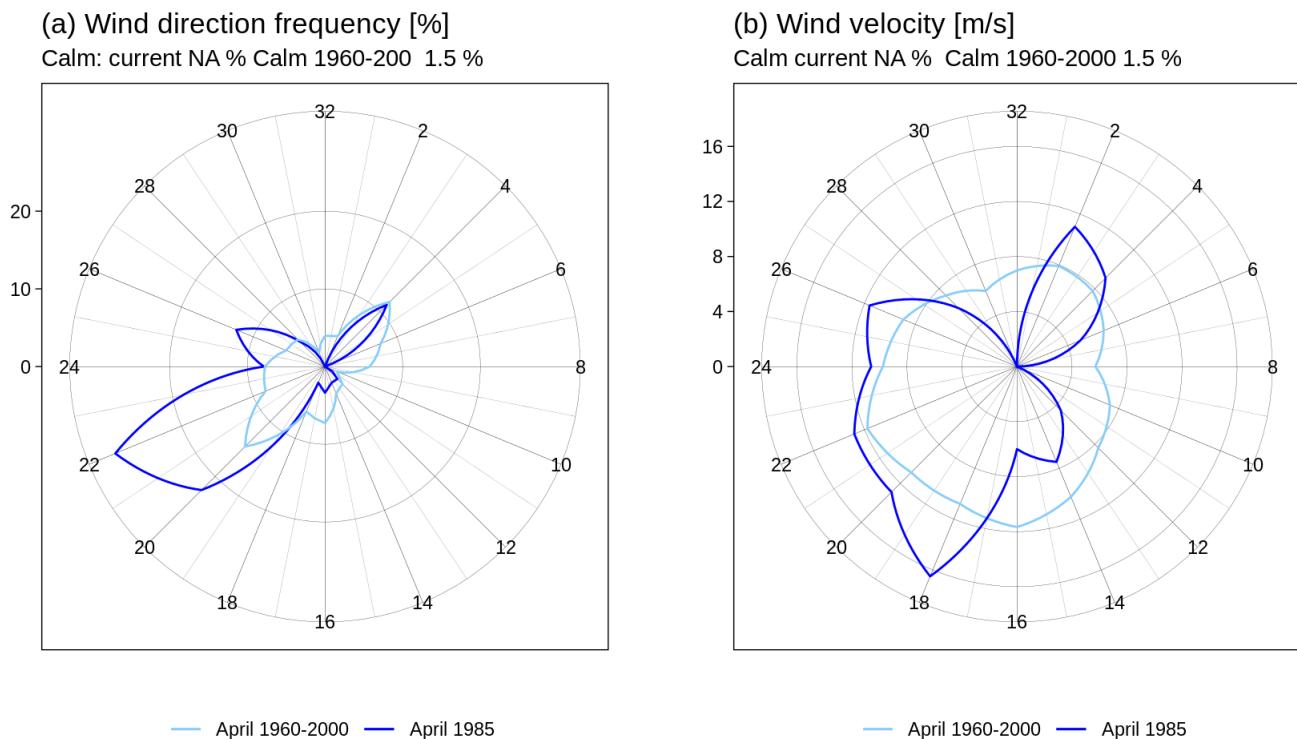
Table 3. Number of days with threshold value in current month and monthly average number of days with threshold value in the 1960- 2000 period

| Nazwa / Name | 1960-2000 | 1985-IV |
|---|-----------|---------|
| Przymrozkowe ($T_{min} < 0^{\circ}\text{C}$) | 20 | 21 |
| Mroźne ($T_{max} < 0^{\circ}\text{C}$) | 8 | 13 |
| Bardzo mroźne ($T_{min} < -10^{\circ}\text{C}$) | 1 | 0 |
| Ciepłe ($T_{max} > 20^{\circ}\text{C}$) | 0 | 0 |
| Gorące ($T_{max} > 25^{\circ}\text{C}$) | 0 | 0 |
| $R > 1 \text{ mm}$ | 13 | 18 |
| $R > 10 \text{ mm}$ | 3 | 5 |
| Liczba dni z pokrywą śnieżną | 26 | 30 |

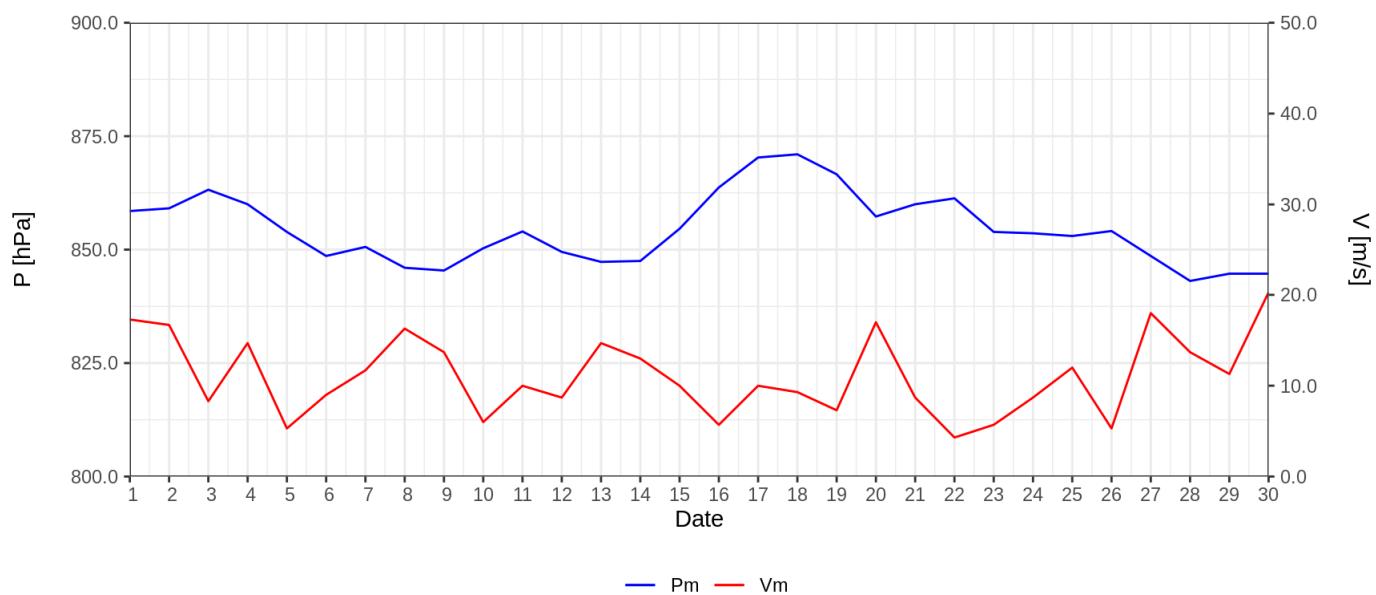
Tabela 4. Wartości średnie i ekstrema miesięczne na tle charakterystyk miesięcznych dla wielolecia 1960 - 2000

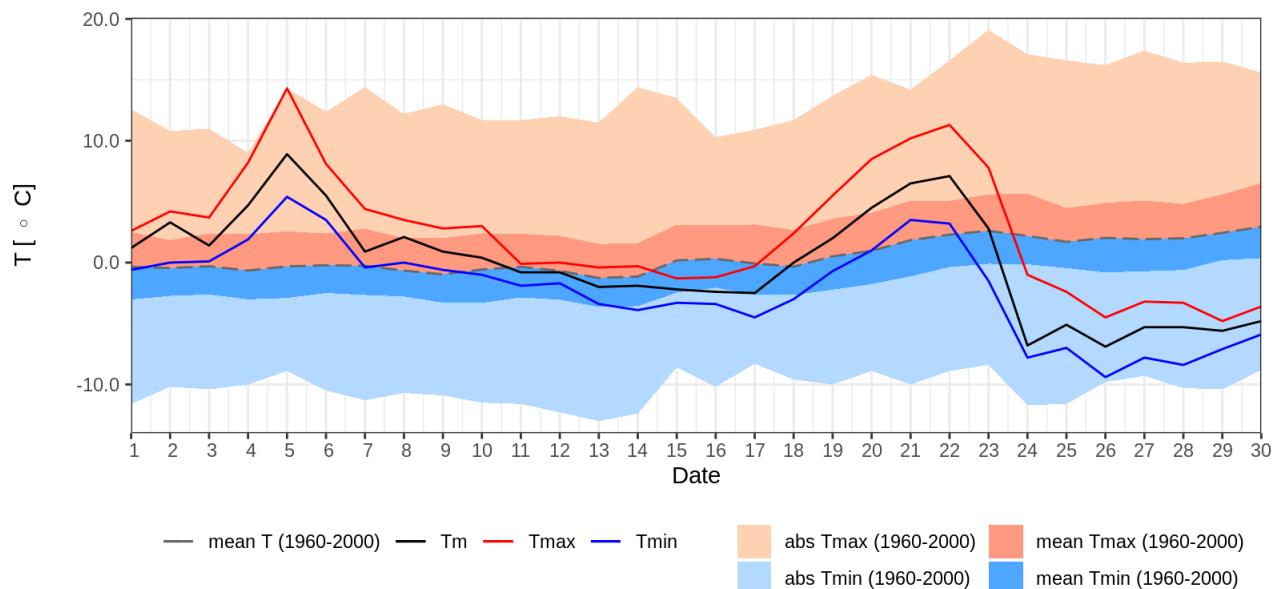
Table 4. Average and extreme monthly values vs. average monthly characteristics for the 1960- 2000 period

| | Opis | Description | 1960-2000 | 1985-IV |
|--------------------------|---------------------------|-----------------------|--------------------|--------------------|
| T [$^{\circ}\text{C}$] | Średnia miesięczna | Monthly average | 0.5 | -0.0 |
| | Maksymalna średnia dobowa | Maximum daily average | 3.4 | 2.5 |
| | Minimalna średnia dobowa | Minimum daily average | -2.0 | -2.2 |
| | Średnie maksimum | Average maximum | 14.4 (1968-04-23) | 8.9 (1985-04-05) |
| | Absolutne maksimum | Absolute maximum | 19.1 (1968-04-23) | 14.3 (1985-04-05) |
| | Średnie minimum | Average minimum | -10.5 (1968-04-23) | -6.9 (1985-04-05) |
| | Absolutne minimum | Absolute minimum | -13.0 (1986-04-13) | -9.4 (1985-04-26) |
| P [hPa] | Średnia miesięczna | Monthly average | 857.0 | 854.5 |
| | Maksimum | Maximum | 876.2 (1966-04-30) | 871.0 (1985-04-18) |
| | Minimum | Minimum | 834.0 (1992-04-01) | 843.1 (1985-04-28) |
| V [m/s] | Średnia miesięczna | Monthly average | 9.0 | 11.1 |
| | Średnie maksimum | Average maximum | 11.7 | 13.6 |
| | Absolutne maksimum | Absolute maximum | 35.0 (1964-04-19) | 28.0 (1985-04-30) |
| R [mm] | Suma miesięczna | Monthly sum | 92.2 | 154.6 |
| | Maksymalna suma dobowa | Maximum daily sum | 36.8 (1961-04-16) | 28.1 (1985-04-30) |

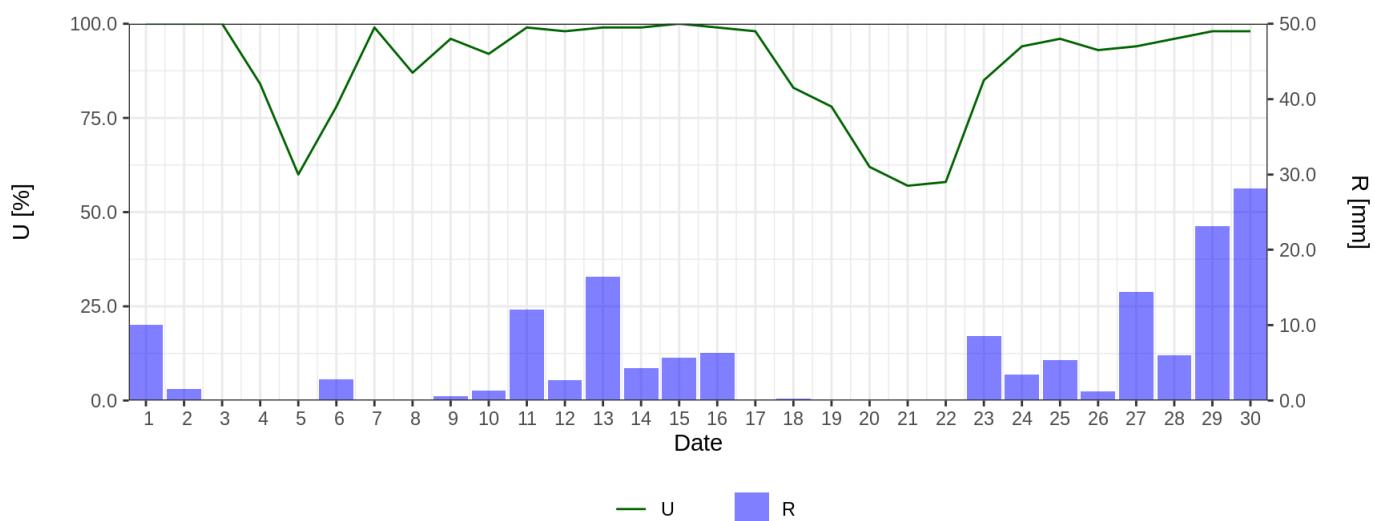
**Ryc. 1. Częstość (a) i prędkość wiatru (b) wg kierunków****Fig. 1. Wind direction frequency (a) and wind velocity for a given direction (b)**

*) W statystyce dotyczącej kierunku wiatru uwzględniono kierunki wiatru odpowiadające skali 16 stopniowej prezentowanej wartościami [2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32].

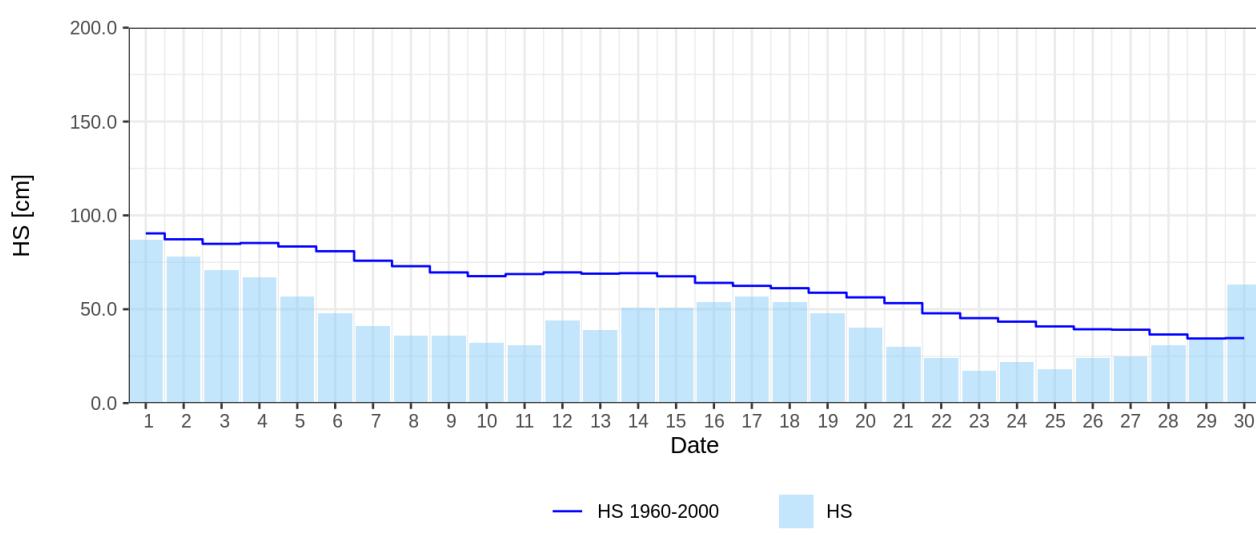
**Ryc. 2. Średnie dobowe ciśnienie atmosferyczne i prędkość wiatru****Fig. 2. Daily average air pressure and wind speed**



Ryc. 3. Średnia dobowa, minimalna i maksymalna temperatura powietrza dla miesiąca na tle danych z wielolecia 1960 - 2000
Fig. 3. Daily mean, maximum and minimum air temperature for given month and 1960-2000 period



Ryc. 4. Średnia dobowa wilgotność względna powietrza i dobowa suma opadu atmosferycznego
Fig. 4. Mean daily relative humidity and daily sum of precipitation



Ryc. 5. Wysokość pokrywy śnieżnej
Fig. 5. Snow cover depth