Republic Hydrometeorological Service of Serbia
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Republic of Serbia

MONTHLY BULLETIN FOR SERBIA

JUNE 2026

Belgrade, the 5th of July 2026

Division for Climate Monitoring and Climate Forecast
Department of National Center for Climate Change, Climate Model Development and Disaster Risk Assessment
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- ***The 5th warmest June for Serbia since 1951***
- ***June was among the 11 warmest for all stations since record keeping began***
- ***Absolute maximum air temperature was exceeded in Kikinda and Palic***
- ***June maximum air temperature was surpassed at 8 stations***
- ***Record-breaking number of days with of 35 °C and above in Kikinda and Palic***
- ***Heat wave at the end of month in most of Serbia***
- ***Record-breaking number of tropical nights in Novi Sad***

AIR TEMPERATURE

Mean monthly air temperature

June 2026 was **the 5th warmest** for Serbia with the anomaly of **+2,2 °C** compared to the 1990-2020 base period (*Figure 1).* At all stations in Serbia, June 2026 was among the 11 warmest since the record-keeping began (*Table 1).*

In the appendix are graphs showing 15 warmest years since the record-keeping at these stations began: Crni vrh, Kikinda, Kursumlija, Kopaonik, Kragujevac, Vranje, Dimitrovgrad, Sjenica, Novi Sad, Palic, Zlatibor, Leskovac and Belgrade.

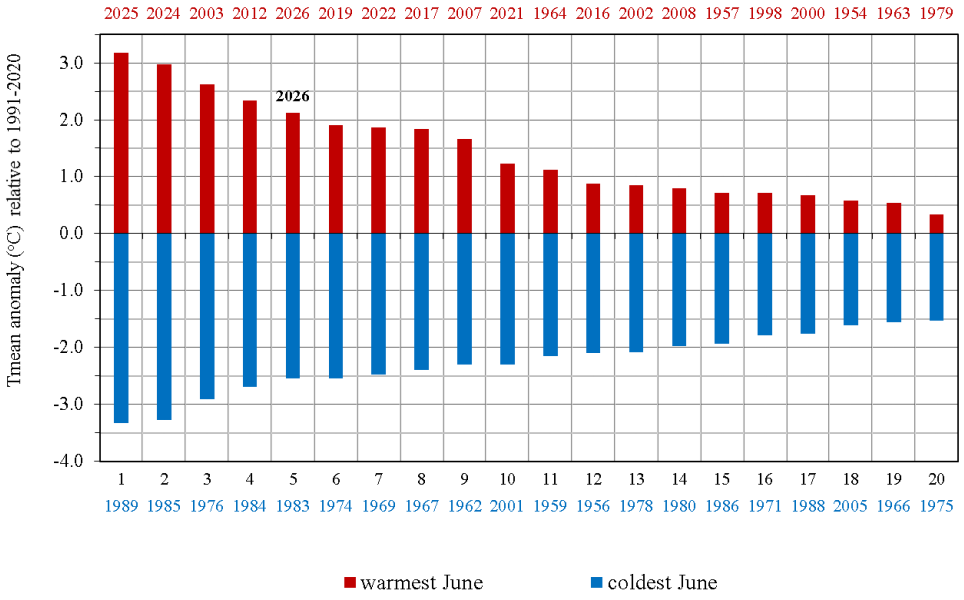


Figure 1. Rank of the warmest and coldest June in Serbia for the period from 1951 to 2026

Table 1. Ranking of June 2026 with mean air temperature, average and departure from the normal 1991-2020

STATION	historical period	Tmean (°C) - June 2026	1991-2020 base period for June	temperature anomaly (°C)	ranking for June 2026
CRNI VRH	1966-2026	18.4	15.4	3.0	**3**
KIKINDA	1948-2026	23.9	21.2	2.8	**4**
KURSUMLIJA	1952-2026	21.4	18.9	2.5	**4**
KOPAONIK	1950-2026	**13.8**	11.3	2.5	**4**
KRAGUJEVAC	1925-2026	23.2	20.7	2.5	**4**
VRANJE	1926-2026	22.5	20.1	2.4	**4**
DIMITROVGRAD	1945-2026	21.0	18.7	2.3	**4**
SJENICA	1946-2026	17.4	15.3	2.0	**4**
NOVI SAD	1948-2026	23.7	20.9	2.9	**5**
PALIC	1945-2026	23.6	21.2	2.4	**5**
ZLATIBOR	1950-2026	18.5	16.2	2.3	**5**
LESKOVAC	1948-2026	22.4	20.4	2.0	**5**
BELGRADE	1888-2026	**24.6**	21.9	2.6	**6**
KRUSEVAC	1927-2026	22.9	20.7	2.3	**6**
ZRENJANIN	1946-2026	23.4	21.2	2.2	**6**
LOZNICA	1952-2026	23.0	20.9	2.2	**6**
SOMBOR	1942-2026	22.9	20.9	2.0	**6**
POZEGA	1952-2026	20.6	19.0	1.6	**6**
NEGOTIN	1927-2026	24.3	22.2	2.1	**7**
S.PALANKA	1939-2026	22.8	20.9	1.9	**7**
KRALJEVO	1926-2026	22.4	20.5	1.9	**7**
B.KARLOVAC	1986-2026	22.6	20.9	1.7	**7**
CUPRIJA	1948-2026	22.5	20.5	2.0	**8**
NIS	1925-2026	22.9	21.1	1.8	**8**
ZAJECAR	1929-2026	22.0	20.9	1.1	**8**
VALJEVO	1926-2026	23.0	20.8	2.3	**9**
S.MITROVICA	1925-2026	22.5	20.7	1.8	**10**
V.GRADISTE	1926-2026	22.3	20.8	1.5	**11**

Mean June air temperature ranged from 20,6 ℃ in Pozega to 24,6 ℃ in Belgrade, and on the mountains from 13,8 ℃ at Kopaonik to 18,5 ℃ at Zlatibor (*Figure 2*).

Departure of the mean monthly air temperature from the normal[1] for the 1991-2020 base period ranged from +1,1 ℃ in Zajecar to +3,0 ℃ at Crni vrh (*Figure 3*).

Mean June air temperature, based on the percentile method[2], was in the following categories: extremely warm in Novi Sad, Kikinda, Kragujevac, Kursumlija, Dimitrovgrad, Vranje and Crni vrh, and warm category in Sremska Mitrovica, Smederevska Palanka, Veliko Gradiste, Cuprija, Nis and Zajecar (*Figure 4).*

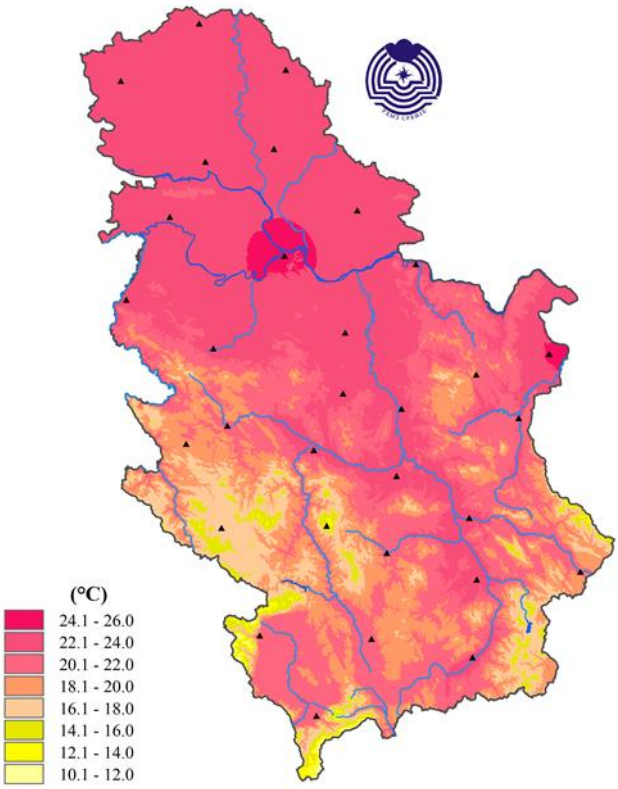


Figure 2. Spatial distribution of mean monthly air temperature (ºC)

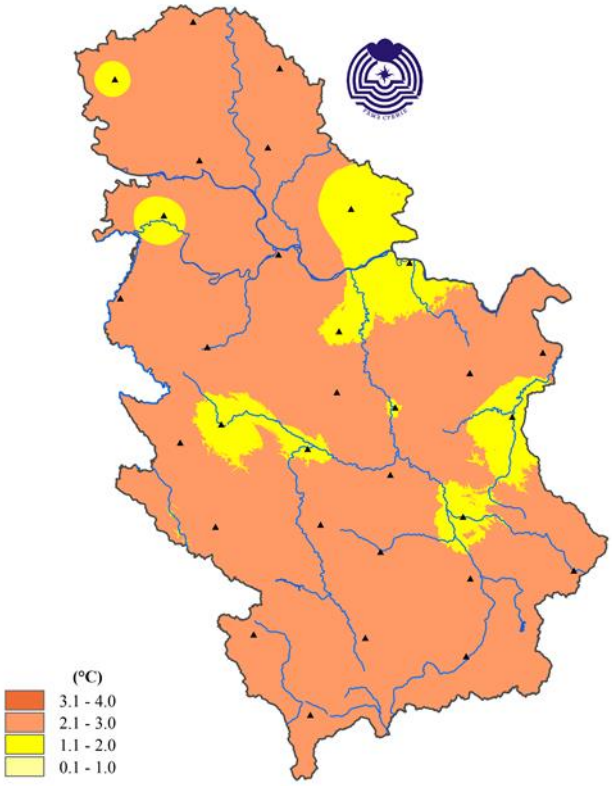


Figure 3. Spatial distribution of mean monthly air temperature anomaly (ºC)

[1] Term ***normal*** refers to ***climatological standard normal***, that is, the average value of a particular climate element, calculated for the period from January 1, 1991 to December 31, 2020

[2] **n**th percentile of a variable refers to the value of the observed variable below which there is n percent of data previously arranged in an ascending order

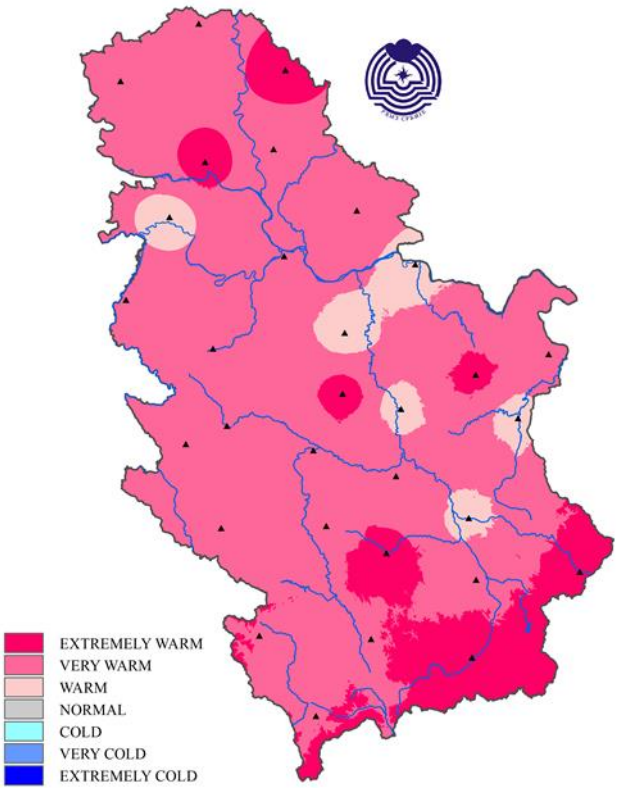


Figure 4. Spatial distribution of the mean monthly air temperature using percentile method

Mean daily air temperature in Belgrade, based on the percentile method was in the warm category at the end of first decade, then it was in the very cold and cold category at the beginning and middle of the second decade, whilst it fell under warm to extremely warm category from the end of second decade until the end of June (*Figure 5).* Daily course of the mean daily air temperature and the accompanying percentiles for the stations Sombor, Novi Sad, Loznica, Negotin, Kragujevac, Zlatibor, Nis and Vranje are given in the Appendix.

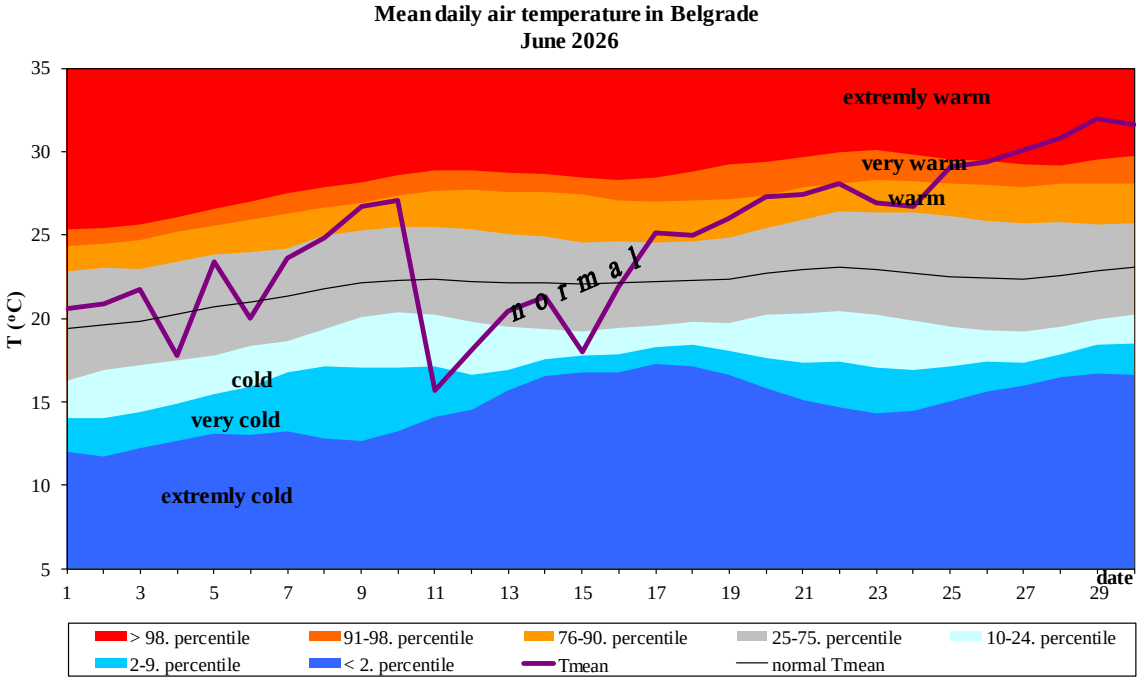


Figure 4. Daily course of the mean daily air temperature and accompanying percentiles for Belgrade

Maximum air temperature

Mean maximum air temperature in June ranged from 28,7 °C in Pozega to 31,5 °C in Ćuprija, while Belgrade observed 30,1 °C. On the mountains, mean maximum June air temperature ranged from 18,3 °C at Kopaonik to 24,9 °C in Sjenica.

Based on the percentile method, mean maximum air temperature was in the categories very warm and extremely warm in most of Serbia, and warm at Zlatibor.

In Serbia, the highest maximum daily air temperature of 40,9 °C was measured in Kikinda on June 30. This temperature value exceeded the previous absolute maximum[3] temperature of 40,0 °C from Kikinda set on July 24, 2007. Absolute maximum was surpassed on Palic with 40,8 °C also on June 30 thereby breaking the previous record of 39,6 °C set on August 15, 1952.

At 8 stations, June maximum air temperature was exceeded while in Sremska Mitrovica is was equaled (*Table 2*).

Table 2. The exceeded maximum June air temperature

STATION	Work period	2026		exceeded Tmax	Date Tmax
		Tmax June 2026	Date Tmax		
PALIC	1945-2026	40.8	30	37.6	24. VI 2021.
SOMBOR	1942-2026	40.3	30	38.3	24. VI 2021.
ZRENjANIN	1943-2026	40.2	30	38.5	26. VI 2025.
KIKINDA	1949-2026	**40.9**	30	38.8	26. VI 2025.
B.KARLOVAC	1986-2026	39.0	30	38.2	24. VI 2021.
LOZNICA	1952-2026	39.2	29	37.7	26. VI 2025.
S.MITROVICA	1925-2026	**38.5**	30	izj.	11. VI 1928.
BELGRADE	1888-2026	38.9	29	38.7	24. VI 2021.
V.GRADISTE	1926-2026	39.6	29	39.4	26. VI 2025.

Number of summer days[4] ranged from 23 in Veliko Gradiste to 28 in Negotin, Krusevac, Cuprija, Nis, Leskovac, Zajecar and Vranje, while Belgrade observed 26 summer days. On the mountains, summer days were not recorded at Kopaonik, while Zlatibor and Crni vrh recorded 10 and Sjenica recorded 14. The recorded number of summer days was 3 to 7 days above the June average in most of country.

Number of tropical days[5] ranged from 11 in Pozega, Kursumlija and Dimitrovgrad to 21 in Cuprija and Leskovac. On the mountains, 2 tropical days were recorded in Sjenica, Crni vrh and Zlatibor. Number of tropical days in June was from 5 to 11 days above the average in most of Serbia.

[3] The absolute maximum represents the highest measured value in the history of meteorological measurements
[4] Summer day refers to a day with maximum daily air temperature 25 °C and above
[5] Tropical day refers to a day with maximum daily air temperature 30 °C and above

Days with the air temperature of 35 °C and above were not recorded on the mountains, elsewhere their number ranged from 2 in Pozega, Kraljevo, Zajecar, Dimitrovgrad and Vranje to 7 days in Kikinda. The recorded number of days was 2 to 5 days above the June average. **Record-breaking number of days with the air temperature of 35 °C and above was recorded in Kikinda and Palic.** Kikinda saw 7 days thereby breaking the previous record of 6 days from June 2021. Palic saw 5 days with Tmax ≥ 35 °C thereby breaking the previous maximum of 4 days from June 1994.

Heat wave[6], apart from Zajecar, Sjenica and Zlatibor, was recorded in most of Serbia from 25 to 30 June, and at several stations from 26 to 30 June (*Table 3).* The recorded heat wave was very intense on June 29 and 30 when the departure of the maximum daily air temperature was in a range from +8 to +13 °C.

Table 3. Heat waves in Serbia

HEAT WAVES IN SERBIA - JUNE 2026.

(relative to the 1991-2020 base period)

	JUNE																										
stanica/dan	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
PALIC																									VW	EW	EW	EW	EW	EW
SOMBOR																									VW	EW	EW	EW	EW	EW
KIKINDA																									VW	EW	EW	EW	EW	EW
ZRENJANIN																									VW	EW	EW	EW	EW	EW
NOVI SAD																									VW	VW	EW	EW	EW	EW
SR.MITROVICA																									VW	VW	EW	EW	EW	EW
BELGRADE																									VW	VW	EW	EW	EW	EW
LOZNICA																										VW	EW	EW	EW	EW
VALJEVO																										VW	EW	EW	EW	EW
V.GRADISTE																									VW	VW	EW	VW	EW	EW
SM.PALANKA																										VW	EW	EW	EW	EW
KRAGUJEVAC																										VW	VW	VW	EW	EW
KRALJEVO																										VW	VW	VW	EW	EW
POZEGA																										VW	VW	VW	EW	EW
ZLATIBOR																														
CUPRIJA																									VW	VW	EW	VW	EW	EW
KRUSEVAC																										VW	EW	VW	EW	EW
NEGOTIN																									VW	VW	VW	VW	EW	EW
ZAJECAR																														
CRNI VRH																									VW	VW	VW	EW	EW	EW
KOPAONIK																										VW	VW	VW	EW	EW
SJENICA																														
NIS																										VW	VW	VW	EW	EW
VRANJE																									VW	VW	VW	EW	EW	EW
DIMIROVGRAD																										VW	VW	VW	EW	EW
LESKOVAC																									VW	VW	EW	VW	EW	EW
KURSUMLIJA																										VW	EW	VW	EW	EW
B.KARLOVAC																										VW	EW	EW	EW	EW

EW	EXTREMELY WARM
VW	VERY WARM

[6] Heat wave is, according to the percentile method, is a period during which maximum daily air temperature is in the very warm and extremely warm categories for 5 consecutive days or longer

Figure 6 shows daily course of the maximum daily air temperature and the accompanying percentiles for Belgrade in June 2026 and for the stations Sombor, Novi Sad, Loznica, Negotin, Kragujevac, Zlatibor, Nis and Vranje are given in the Appendix.

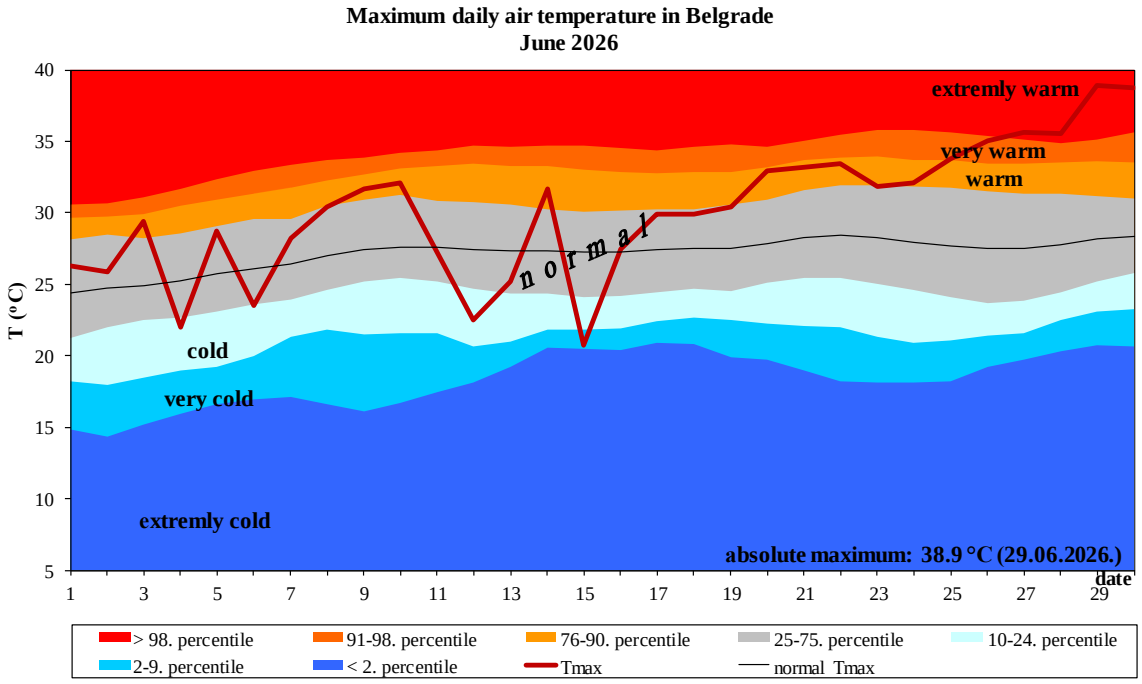


Figure 6. Daily course of the maximum daily air temperature and accompanying percentiles for Belgrade

Minimum air temperature

Mean minimum air temperature in June ranged from 12,6 ℃ in Kuršumlija to 18,5 ℃ in Belgrade. On the mountains, mean minimum air temperature ranged from 8,8 ℃ in Sjenica to 13,8 ℃ at Crni vrh.

Based on the percentile method, mean minimum monthly air temperature was in the following categories: normal and warm in most of the country, very warm in Novi Sad, Loznica, Palic and Crni vrh, and extremelt warm at Zlatibor and Kopaonik.

The lowest minimum daily air temperature of 1,6 ℃ was measured in Sjenica on June 13. As for the lowland, one the same day Kursmulija observed air temperature of 6,3 ℃. On June 13, the lowest minimum daily air temperature of 12,5 ℃.

The highest number of tropical nights[7] was recorded in Belgrade, total of 10 nights, Palic and Novi Sad recorded 8 nights, Kikinda, Loznica, Valjevo and Negotin recorded 4 nights, Zrenjanin recorded 3 nights, Sombor and Banatski Karlovac recorded 2, Sremska Mitrovica, Kragujevac, Smederevska Palanka, Crni vrh and Zlatibor recorded 1. **Record-breaking number of tropical nights** was observed in Novi Sad thereby breaking the previous record for June of 7 nights set in June 2024.

Figure 7 shows assessment of the minimum and maximum air temperature in Serbia for June based on the tercile distribution relative to the 1991-2020 base period. It can be noted that the

[7] Tropical night refers to a day with minimum daily air temperature 20 °C and above

mean minimum air temperature was slightly above the upper tercile threshold while the mean maximum air temperature was significantly above the upper tercile threshold.

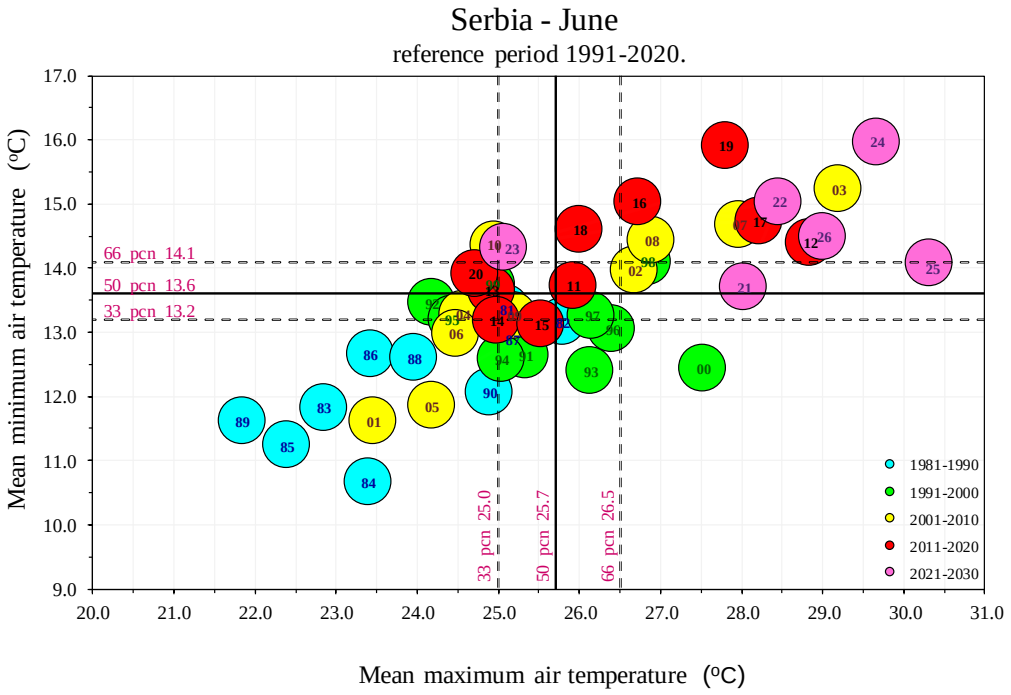


Figure 7. Assessment of minimum and maximum air temperature for Serbia with the accompanying terciles in relation to the 1991-2020 base period

Figure 8 shows daily course of the minimum daily air temperature and the accompanying percentiles for Belgrade in June 2026, and for the stations Sombor, Novi Sad, Loznica, Negotin, Kragujevac, Zlatibor, Nis and Vranje are given in the Appendix.

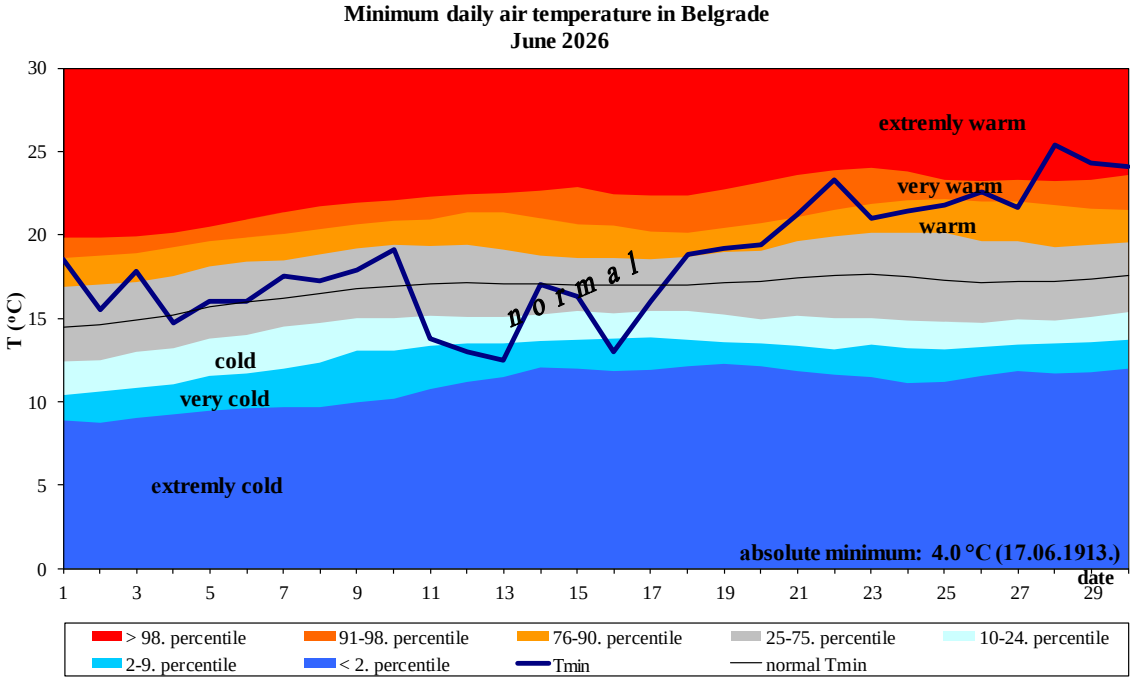


Figure 8. Daily course of the minimum daily air temperature and accompanying percentiles for Belgrade

PRECIPITATION

June precipitation sums ranged from 27,6 mm in Nis to 97,5 mm in Kraljevo, while Belgrade received 68,8 mm of precipitation (*Figure 9*).

Precipitation totals compared to the normal for the 1991-2020 base period ranged from 48% in Nis to 112% in Zajecar (*Figure 10).*

Based on the percentile method, precipitation sums were in the following categories: normal in most of the country, dry in Banatski Karlovac, Sremska Mitrovica, Valjevo, Nis, Vranje and Zlatibor (*Figure 11).*

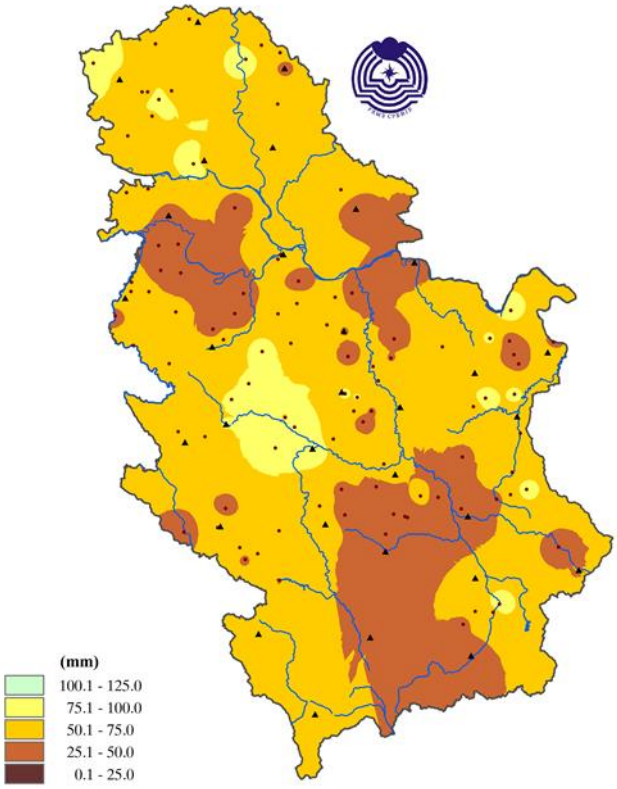


Figure 9. Spatial distribution of the monthly precipitation sums (mm) according to data from 28 major meteorological, 24 climatological and 78 rain gauge stations

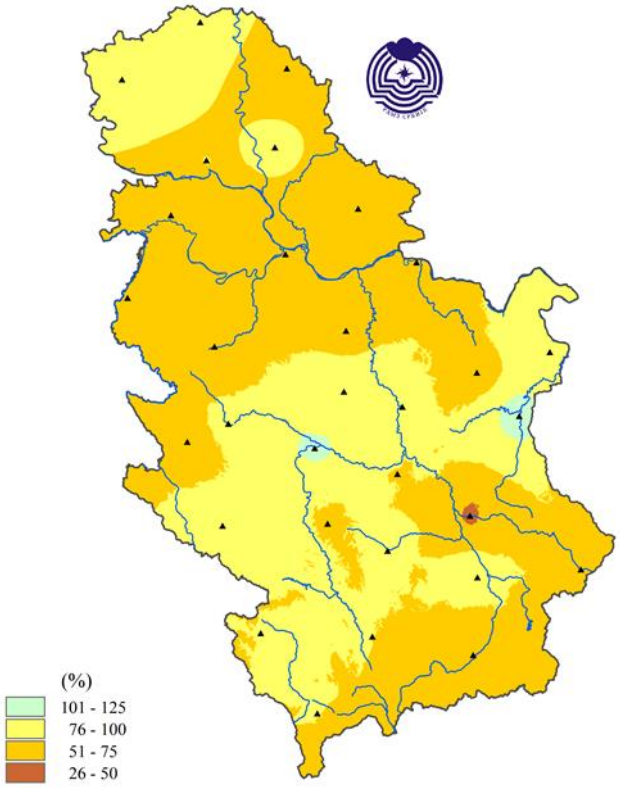


Figure 10. Spatial distribution of the monthly precipitation sums in the percentages of normal for the 1991–2020 base period

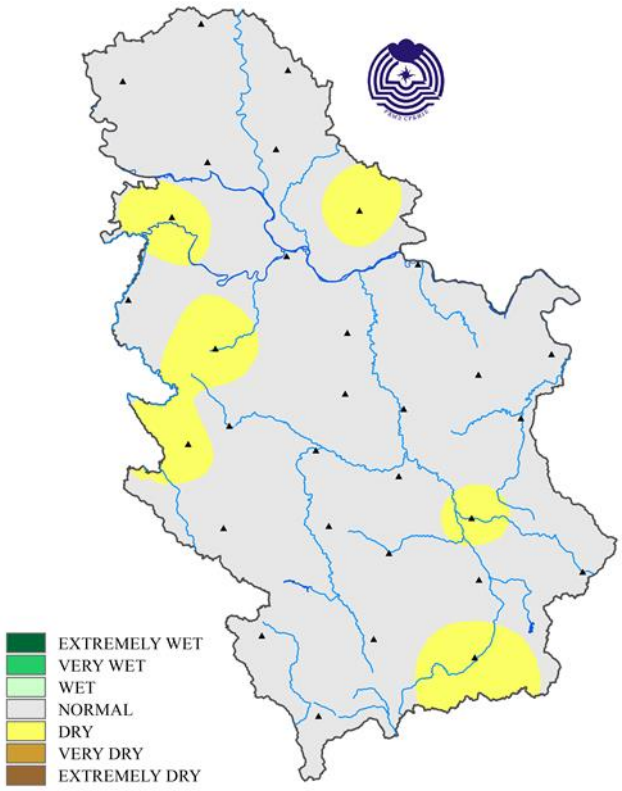


Figure 11. Monthly precipitation sums according to the percentile method

The highest daily precipitation sum of 44,7 mm was measured in Kragujevac on June 2. On June 12, Belgrade observed the daily precipitation sum of 35,5 mm.

Number of days with precipitation ranged from 4 in Loznica, Kursumlija and Leskovac to 13 on Palic and Kikinda. The recorded number of days with precipitation was from 2 to 7 days below the June average in most of the country (Figures 12 and 13).

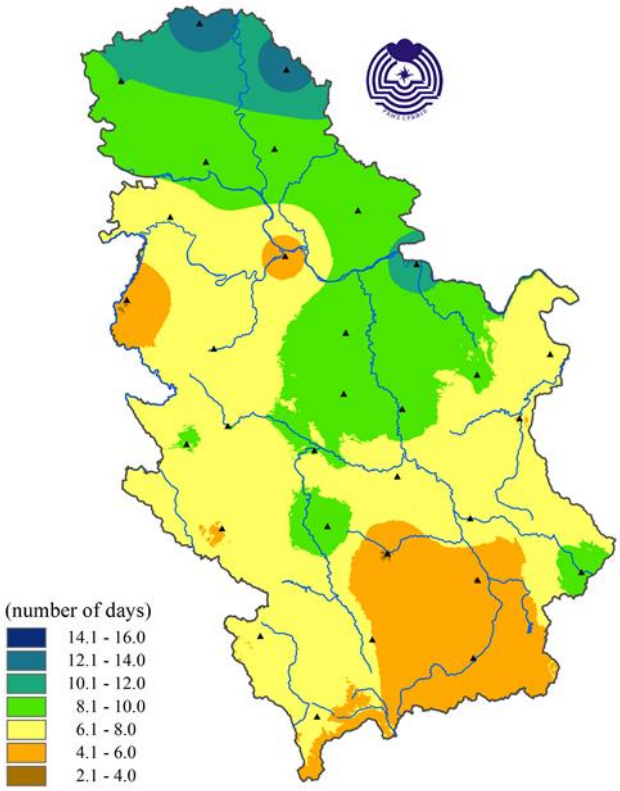


Figure 12. Spatial distribution of number of days with precipitation

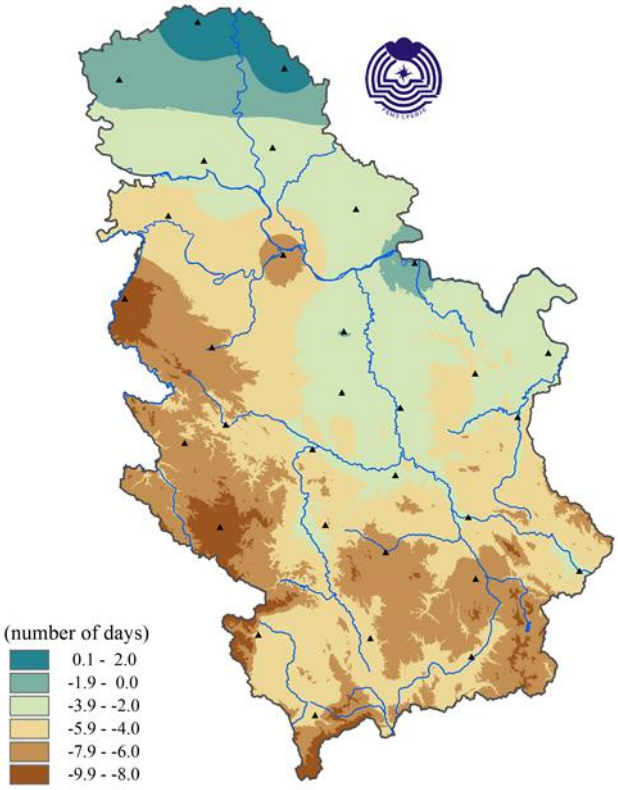


Figure 13. Spatial distribution of deviation of number of days with precipitation

Figure 14 shows assessment of air temperature and precipitation sums for Serbia for June based on the tercile distribution relative to the 1991 – 2020 base period. It can be noted that June 2026 was marked by air temperature significantly below the lower tercile threshold and precipitation sums slightly above the lower tercile threshold (at the lower threshold for average sums).

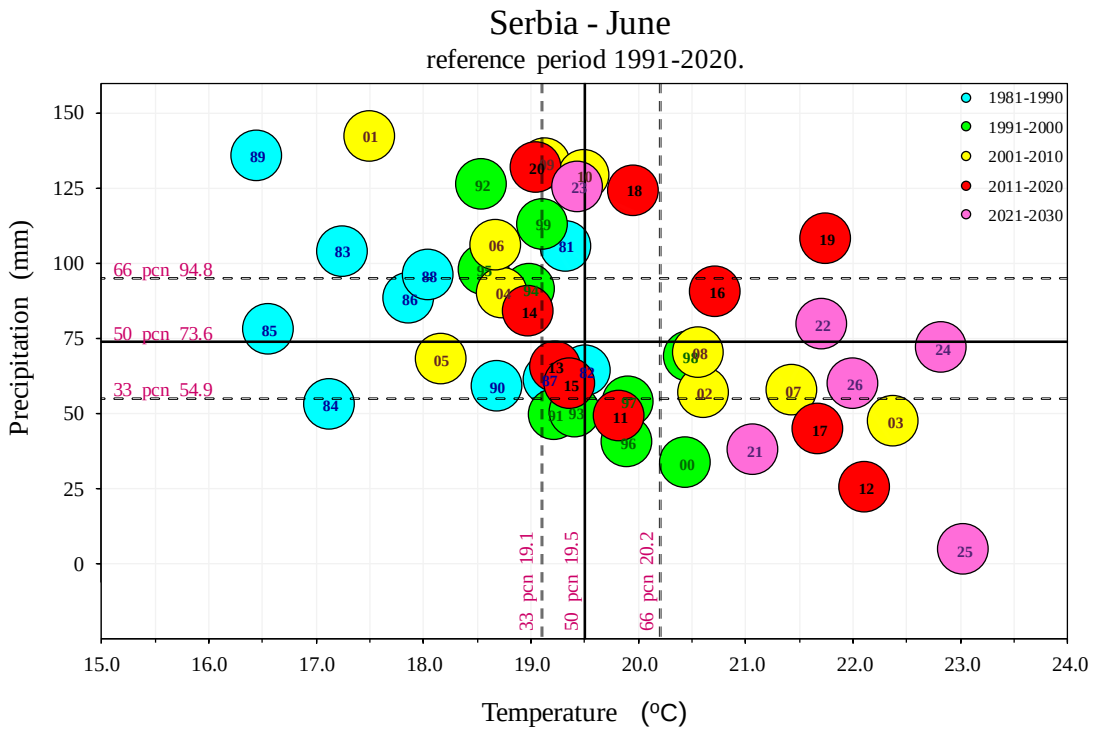


Figure 14. Assessment of air temperature and precipitation for Serbia with the accompanying terciles in relation to the 1991-2020 base period

Figure 15 show daily and cumulative precipitations sums with averaged normal 1991-2020 for June in Belgrade, and for the stations Sombor, Novi Sad, Loznica, Negotin, Kragujevac, Zlatibor, Nis and Vranje precipitation sums are given in Appendix.

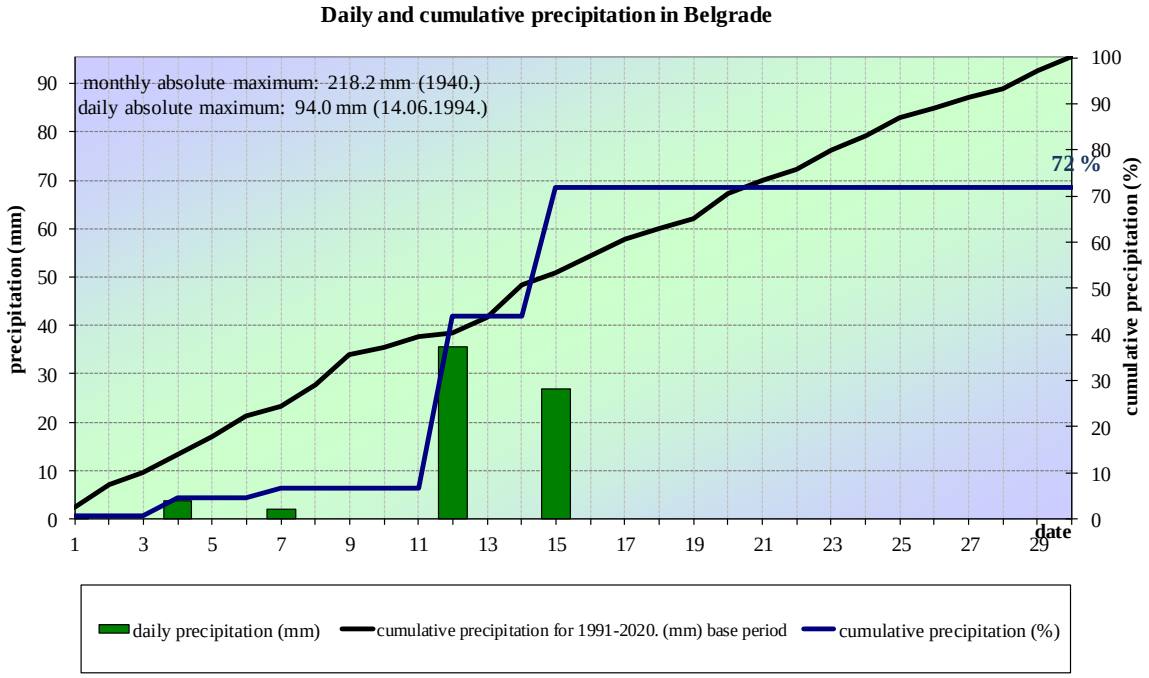


Figure 15. Daily and cumulative precipitation in Belgrade

CLOUD COVER, BRIGHT AND CLOUDY DAYS

Mean cloud cover in Serbia was around the average in June, ranging from 3/10 to 5/10. Figures 16, 17 and 18 show the average daily cloud cover for Belgrade, Kopaonik and Nis.

Number of bright days[8] ranged from 4 in Novi Sad, Sremska Mitrovica, Sjenica and Kopaonik to 11 in Nis, while Belgrade observed 9. The recorded number of bright days was above the June average in most of the country from 1 to 3 days.

Cloudy days[9] were not registered in Sjenica, Nis and Leskovac, while the highest number, total of 5 was recorded in Loznica and Sremska Mitrovica. Belgrade recorded 3 cloudy days. Number of cloudy days was 1 to 5 days below the June average.

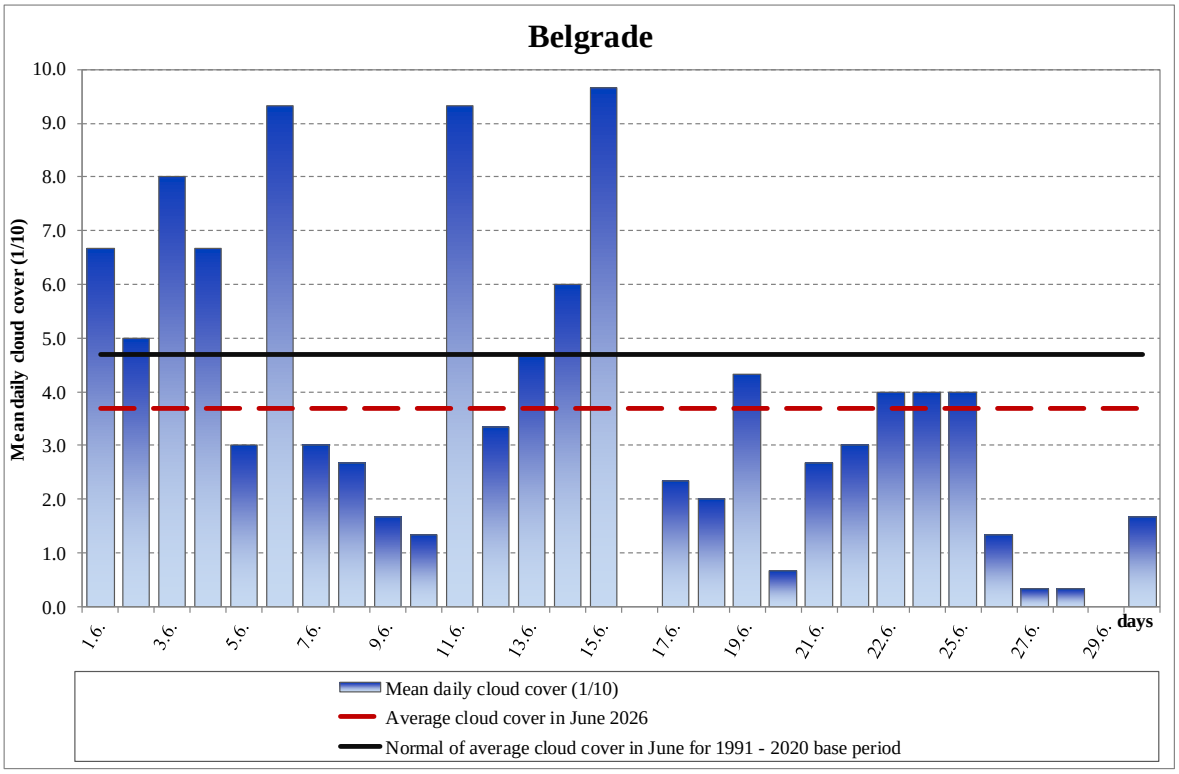


Figure 16. Mean daily cloud cover in Belgrade

[8] Bright day refers to a day with cloud cover less than 2/10
[9] Cloudy day refers to a day with cloud cover over 8/10

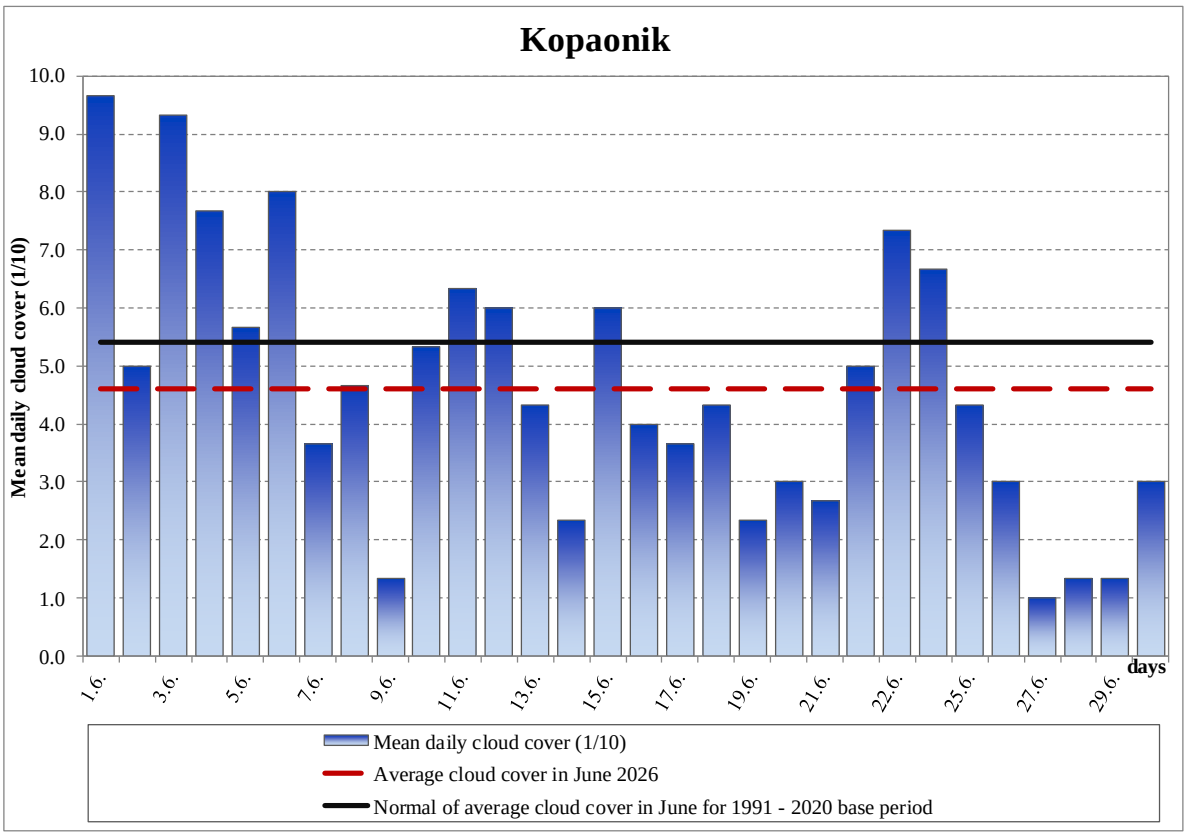


Figure 17. Mean daily cloud cover on Kopaonik

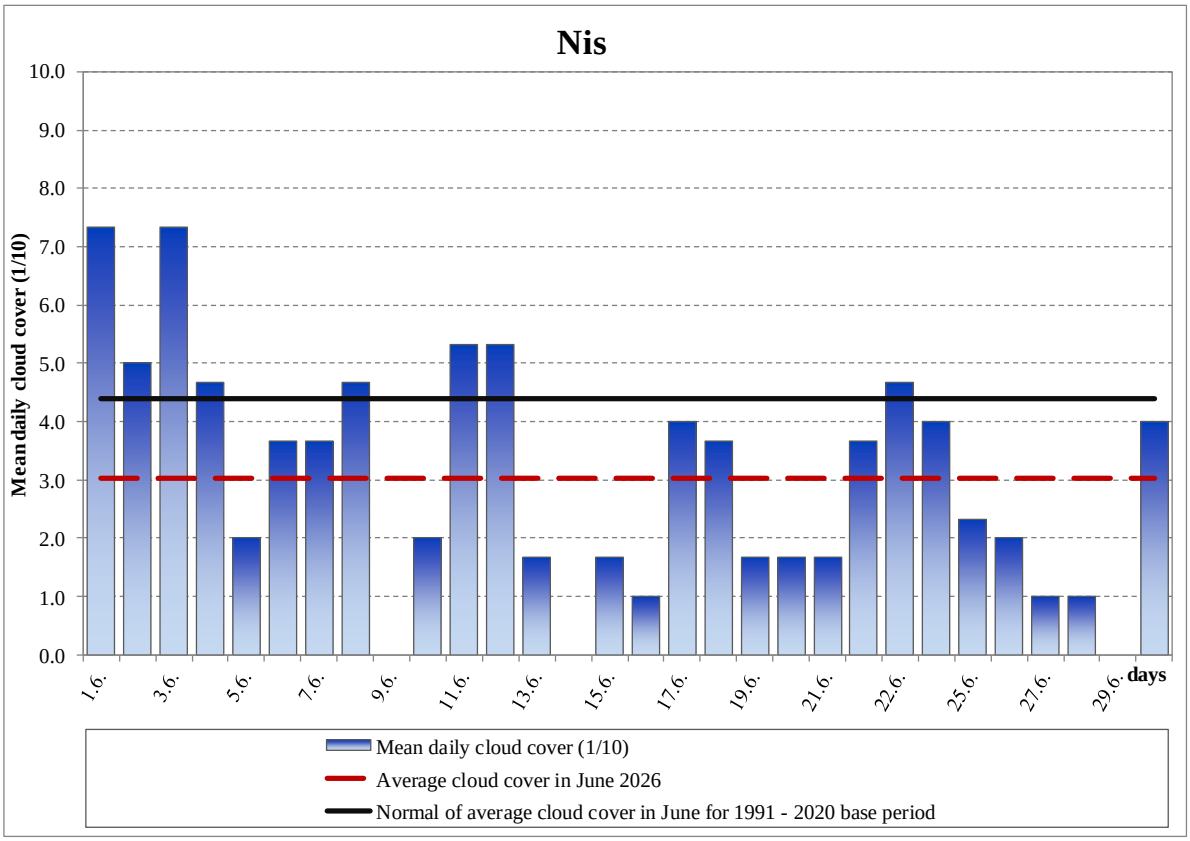


Figure 18. Mean daily cloud cover in Nis

SUNSHINE DURATION (INSOLATION)

June sunshine duration ranged from 237,6 hours at Zlatibor to 352,5 hours in Vranje (*Figure 19*).

June insolation ranged from 98% at Zlatibor to 137% in Krusevac compared to the normal for the 1991-2020 base period (*Figure 20*).

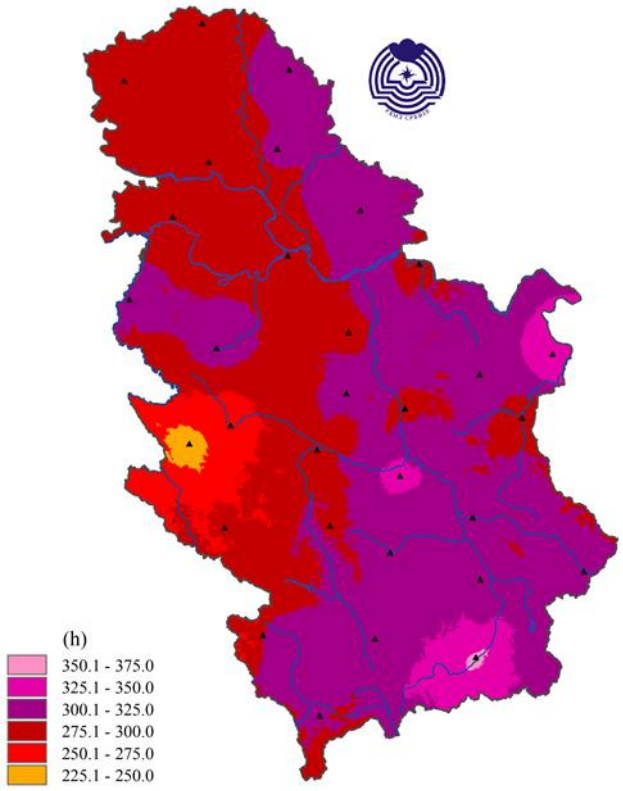


Figure 19. Insolation, expressed in hours

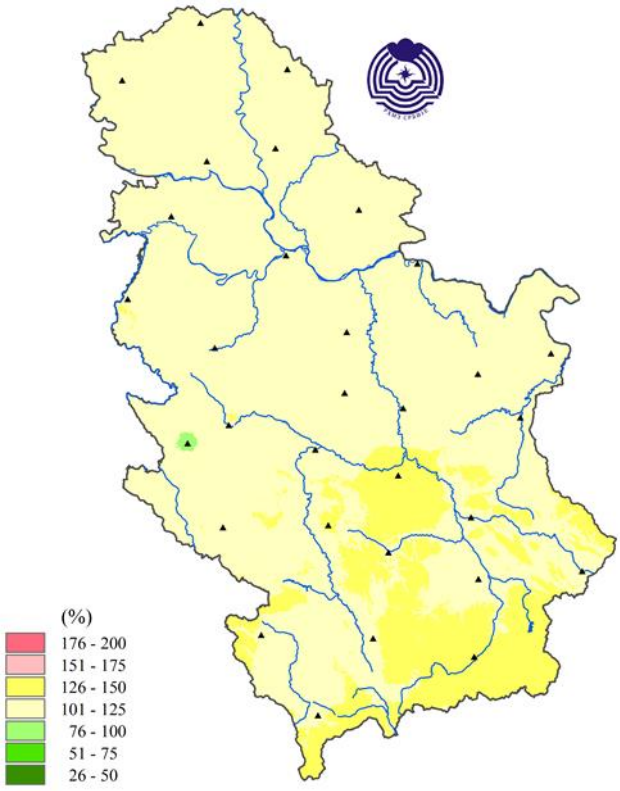


Figure 20. Insolation expressed in the percentages of normal

Note: Climate analysis of meteorological elements was done based on the preliminary data obtained from 28 main meteorological stations

OVERVIEW OF THE SYNOPTIC SITUATION*

Low-pressure activities over the Atlantic and northern Europe, wave disturbances across the Central Europe, Pannonia Basin and the Balkans as well as low pressure from Genoa Bay and Adriatic and several cold atmospheric fronts, changeable and warm with short-lived cooling and locally heavy rain. Then, from the middle of the month omega blocking system across the western and central Europe, expanding to the Balkan Peninsula, in the east and southeast low pressure system, very warm weather, in the east and southeast warm, occasionally changeable with rain.

Period at the beginning of the month was marked by low pressure system across the British Isles, and then across the north of the continent along with spatial upper air trough across the central areas which contributed to the maintenance of west-northwesterly upper air circulation and influence of the relatively warm air mass across out territory. Weather was changeable and moderately warm, with scattered rain and local showers accompanied by thunderstorms, more frequent in the southern areas, at places with severe weather events.

At the beginning of the second decade it was very warm at first, but due to the development of the low pressure system in Genoa Bay and accompanying frontal waves across the Alps, northern Adriatic and the Pannonia Basin, influence and passage of the several cold fronts and accompanying upper air wave disturbances extended across Serbia. With temperature drop, in the northern and central areas, intermittent patches of heavy rain were observed, in the southwest and south thundershowers as well.

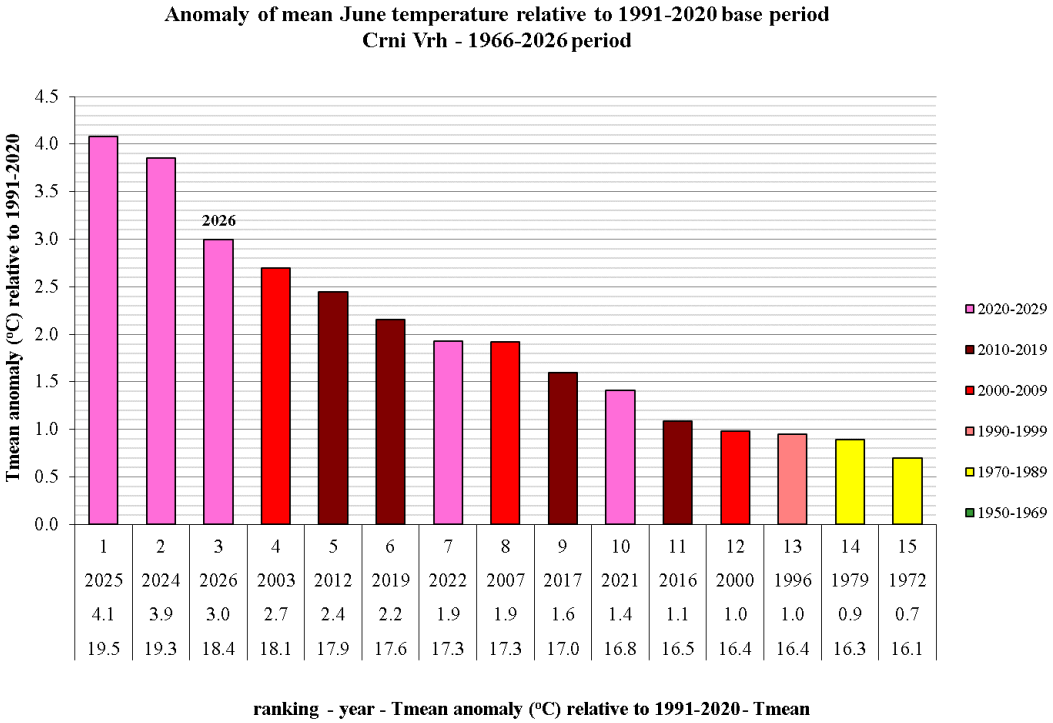
Since the mid-month, omega blocking system was established and across the western Balkans and central Europe followed by gradual influence of the warmer air mass. Influence of the shallow low pressure system lingered over the periphery of this system across the east and southeast of the continent causing occasionally in the east and south of Serbia local thundershowers, at places severe weather events, stormy weather and hail. In the half of the last decade, it was very warm due to the long-lasting presence of the ridge and warm air mass, particularly in the north of the country.

Period at the end of the month was marked by unsettled weather, and susbsequently from the northwest within the low pressure system from the north, influence and passage of the cold front extended across the Pannonia basin and central Balkans toward east and southeast. Very warm and unsettled weather, locally with severe weather events with short-lived stormy weather and hail, followed by cloudiness and scattered rain, showers and thunderstorms along with temperature drop.

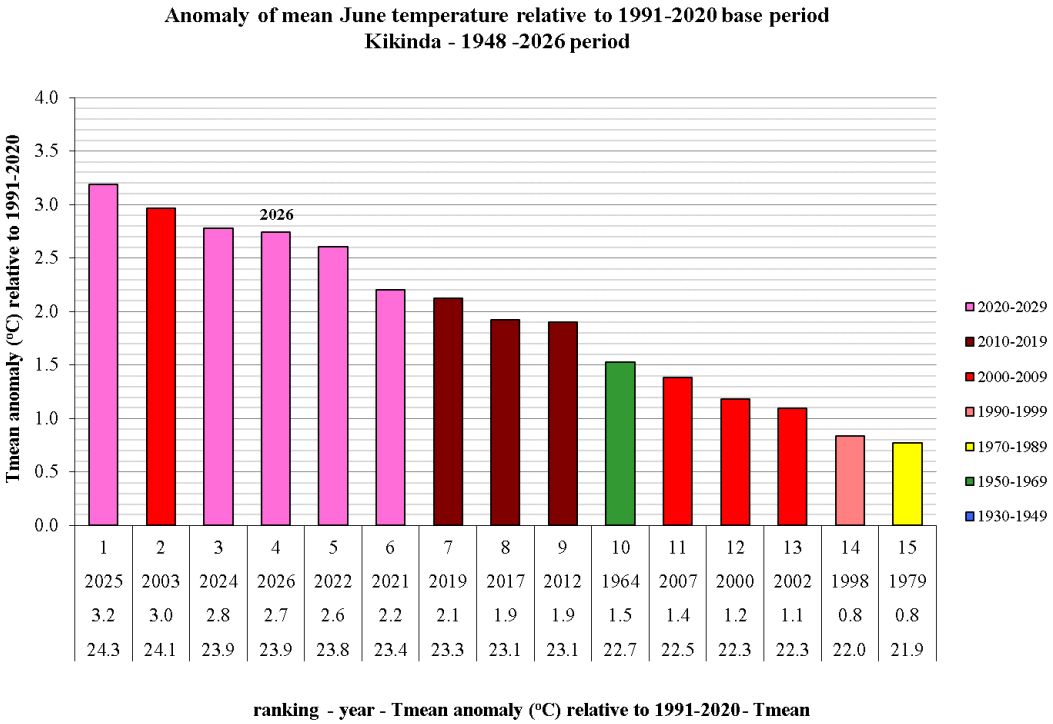
* National Center for Hydrometeorlogical Early Warning System

APPENDIX

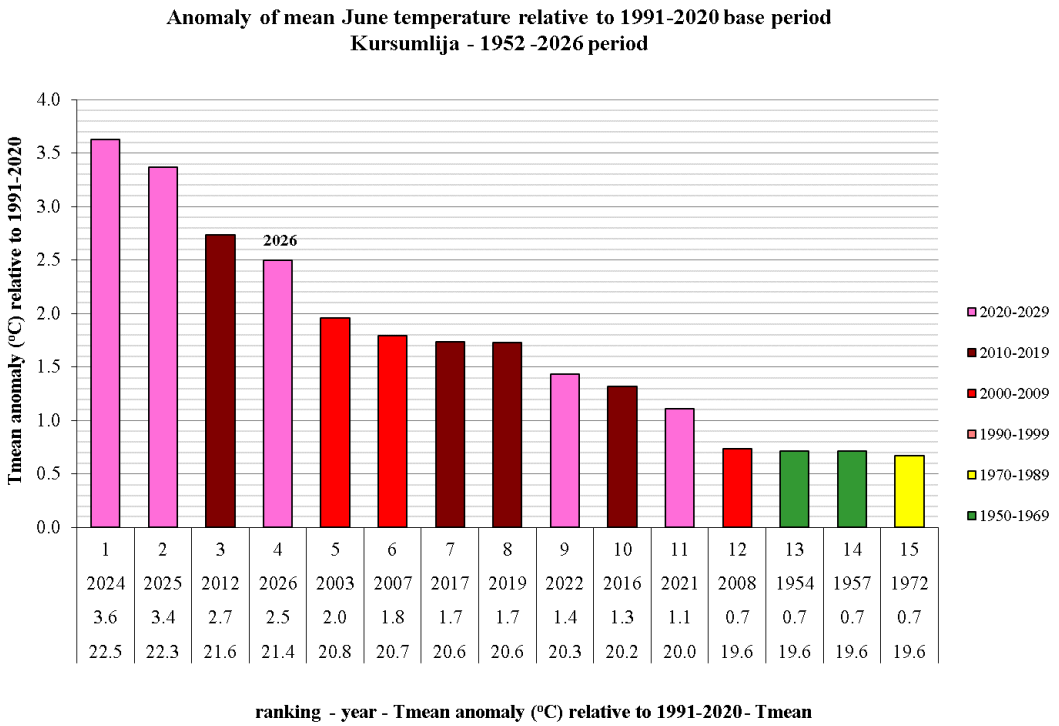
Ranks of the warmest June



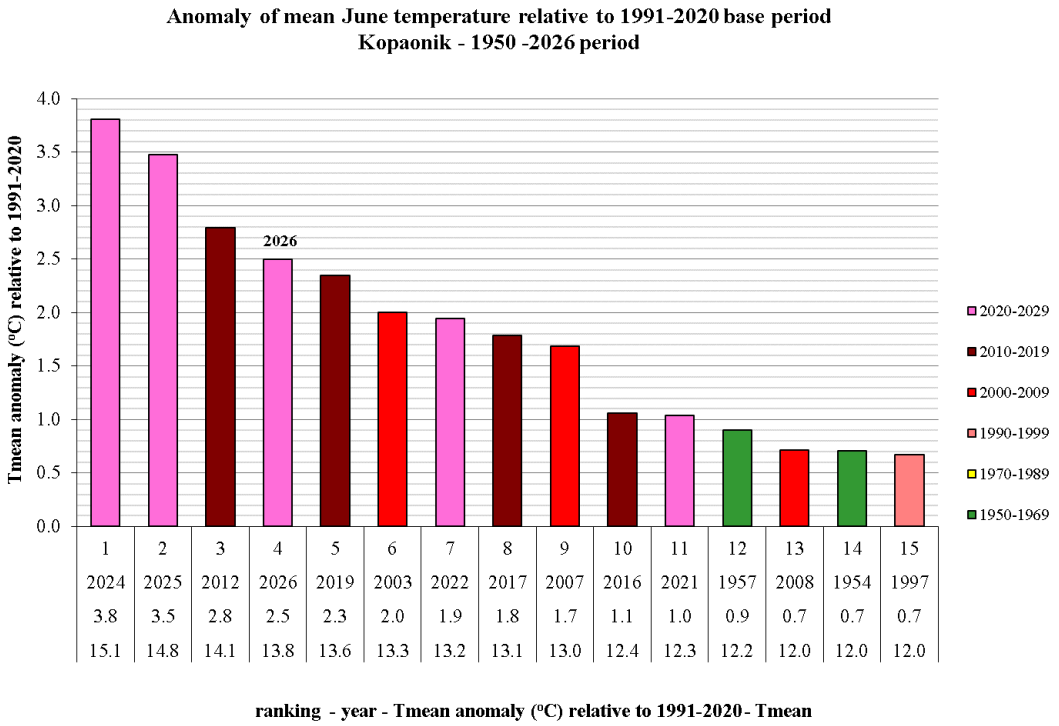
Appendix 1. Rank of the warmest June on Crni Vrh



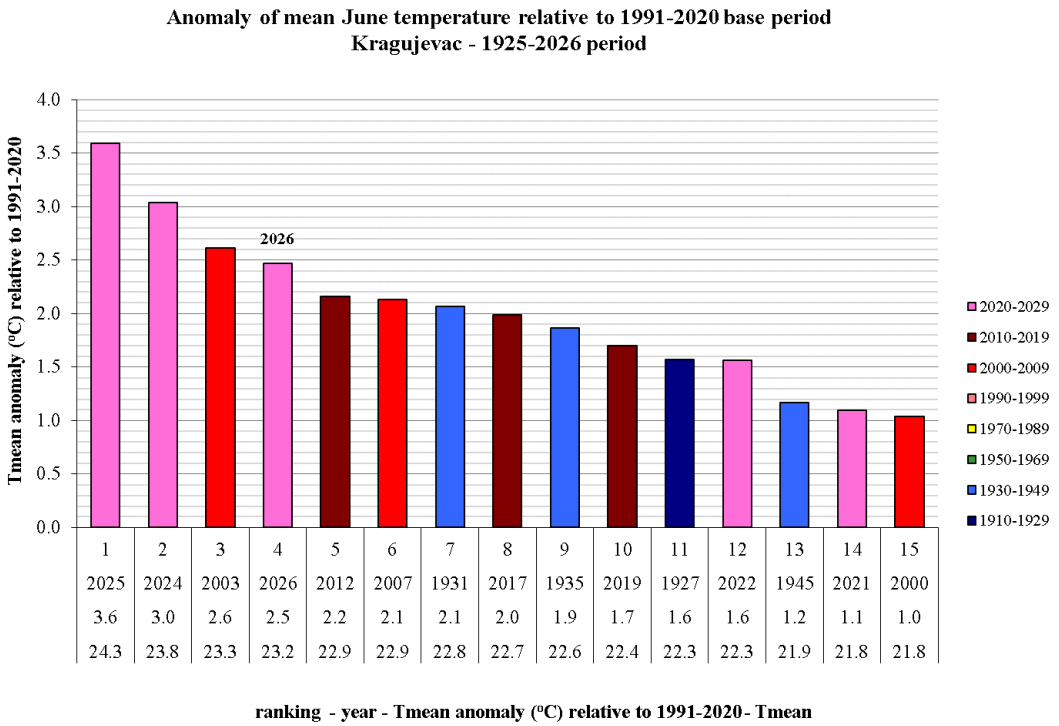
Appendix 2. Rank of the warmest June in Kikinda



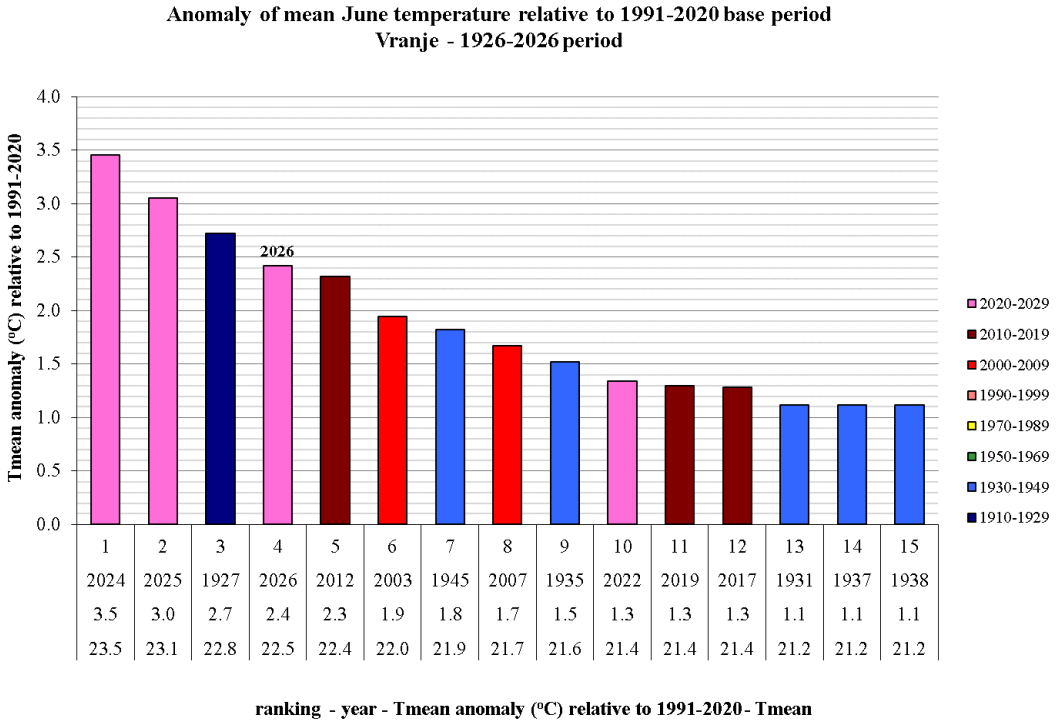
Appendix 3. Rank of the warmest June in Kursumlija



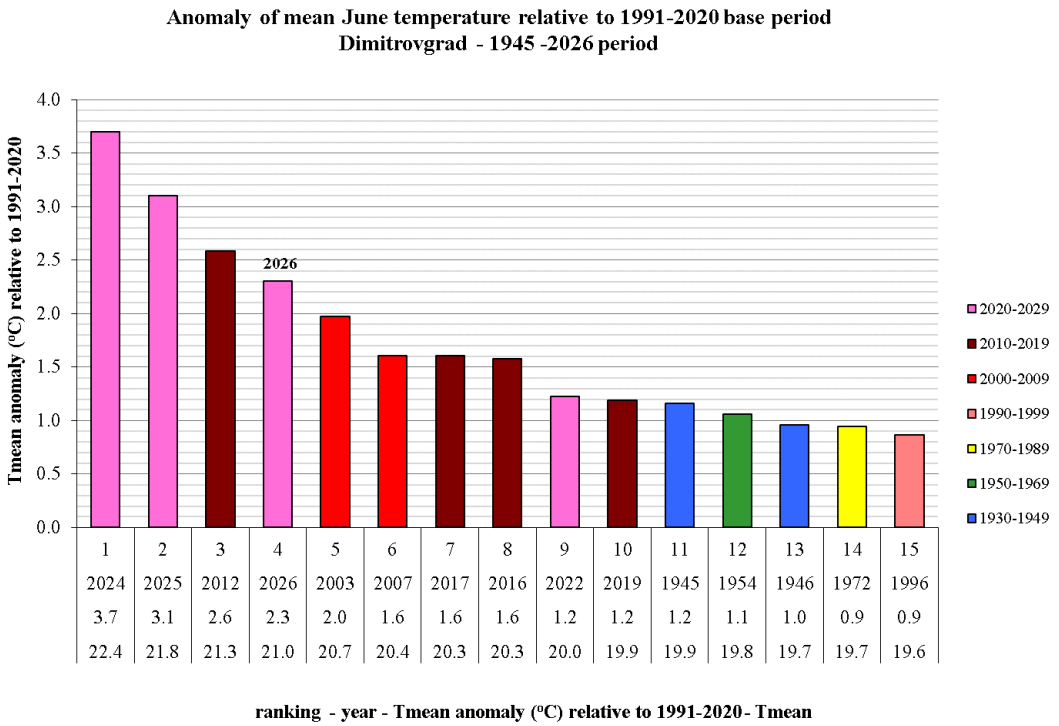
Appendix 4. Rank of the warmest June on Kopaonik



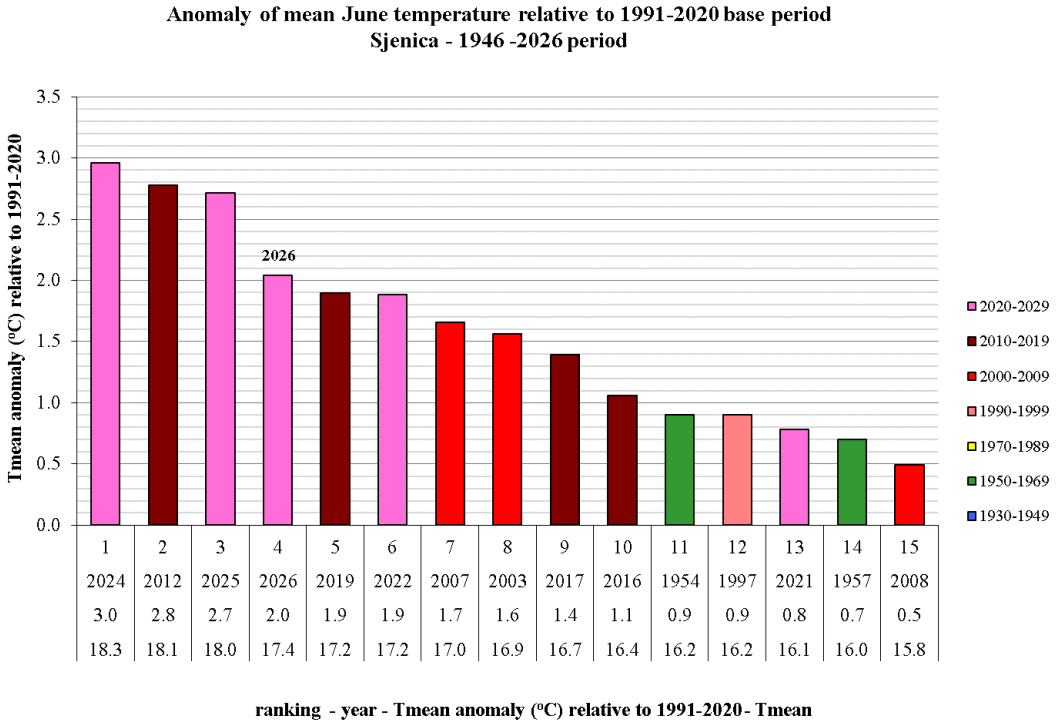
Appendix 5. Rank of the warmest June in Kragujevac



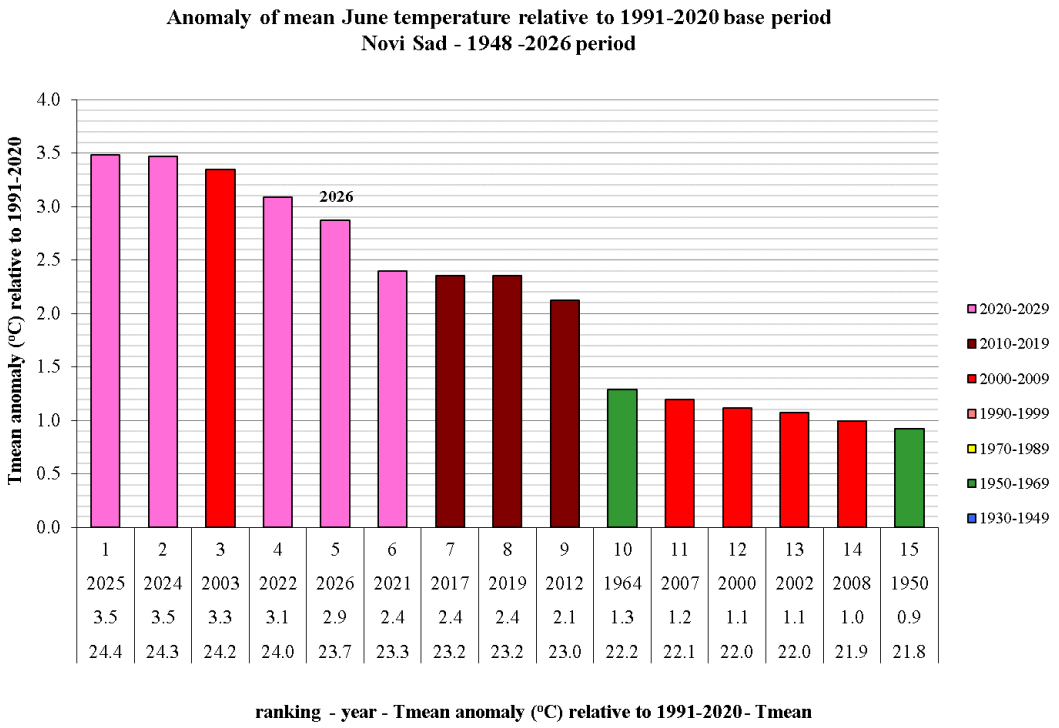
Appendix 6. Rank of the warmest June in Vranje



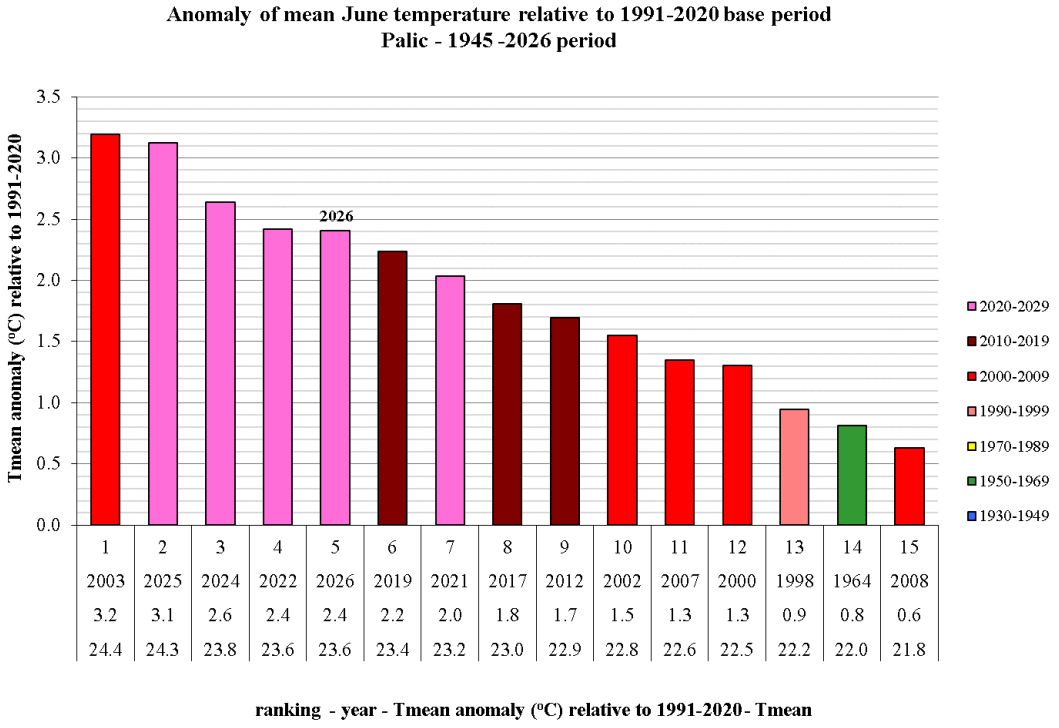
Appendix 7. Rank of the warmest June in Dimitrovgrad



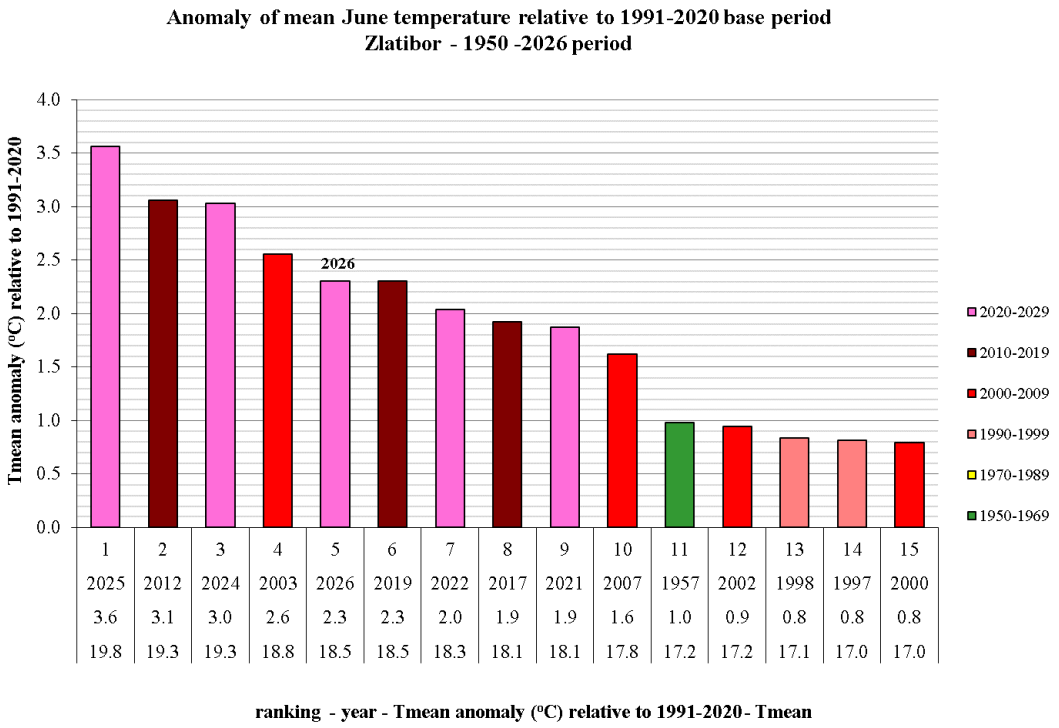
Appendix 8. Rank of the warmest June in Sjenica



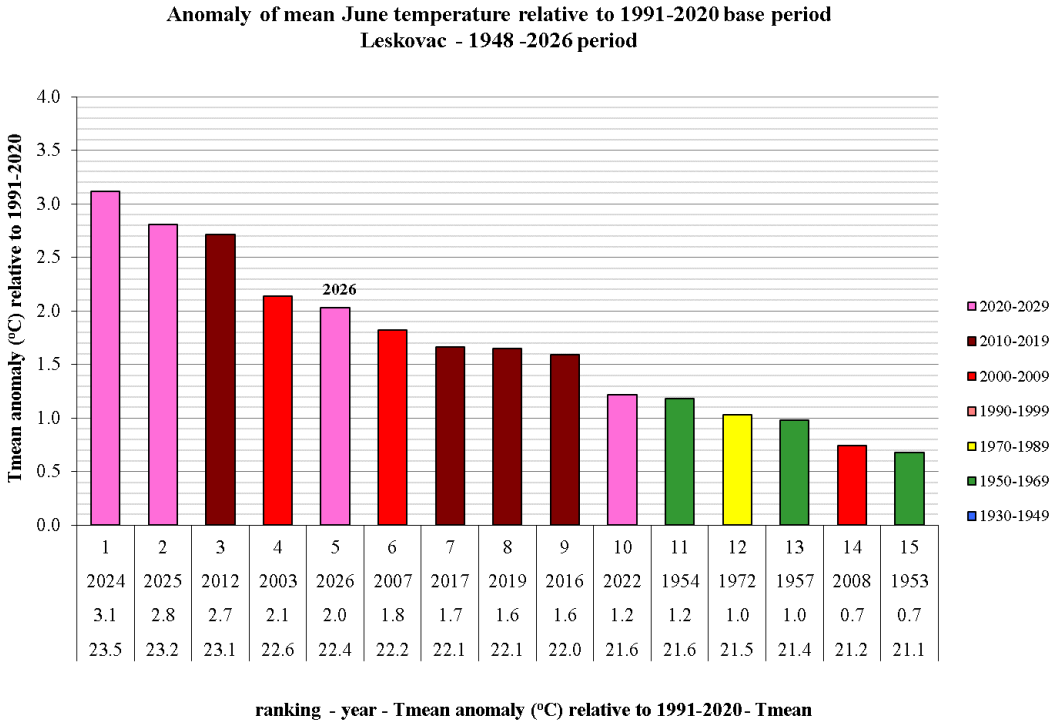
Appendix 9. Rank of the warmest June in Novi Sad



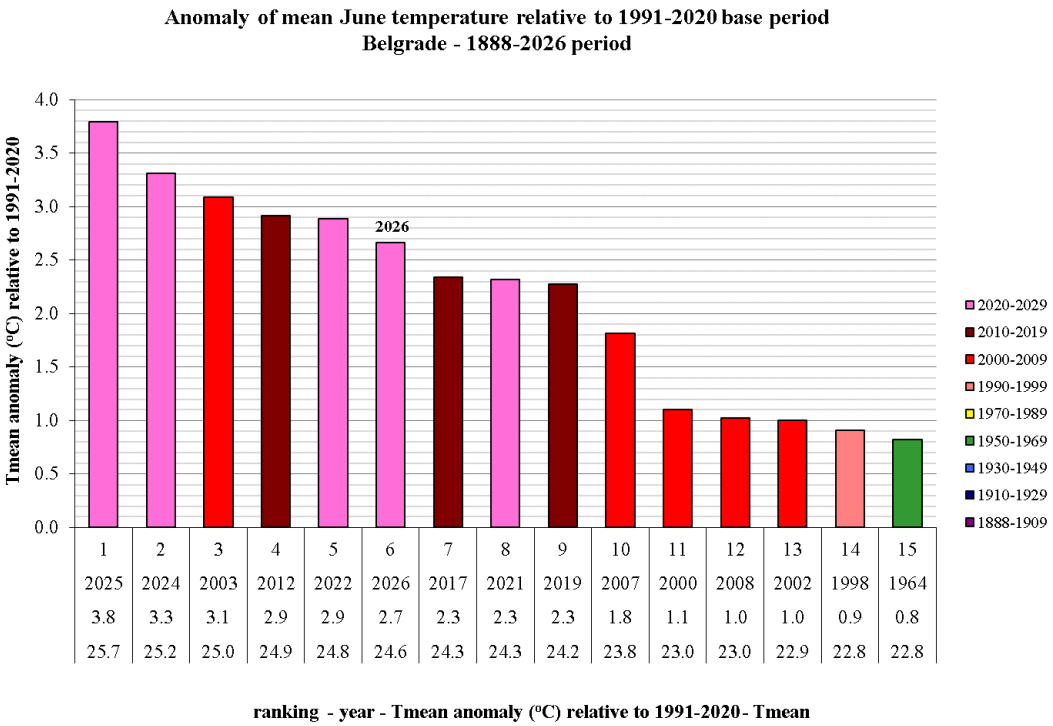
Appendix 10. Rank of the warmest June on Palic



Appendix 11. Rank of the warmest June on Zlatibor

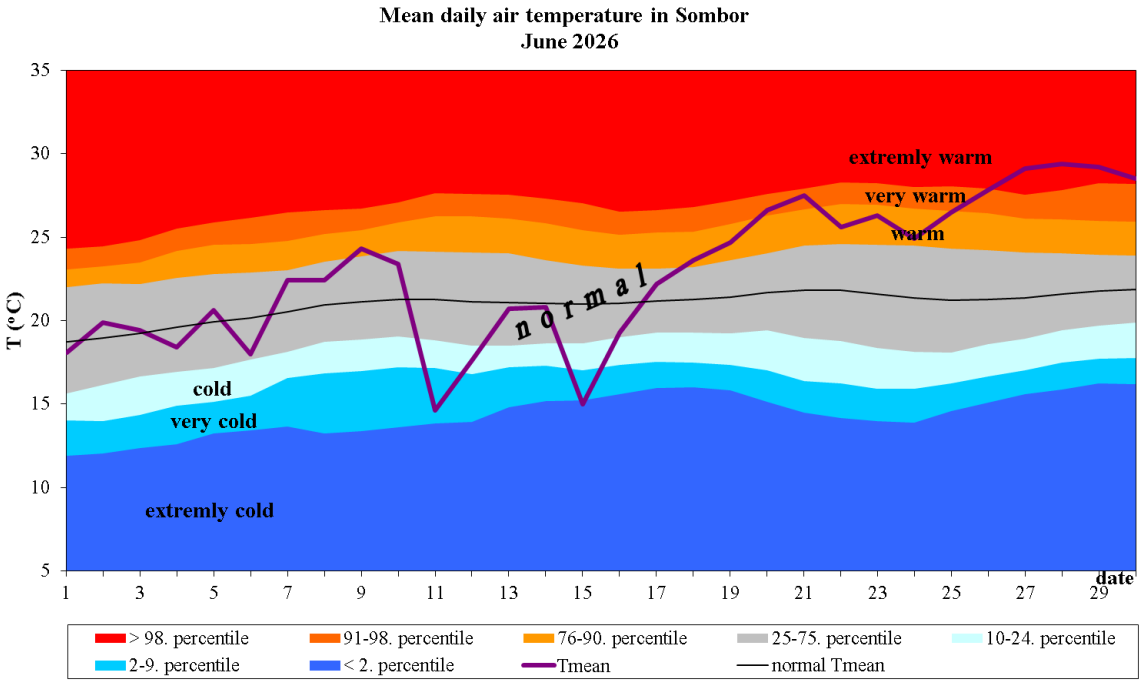


Appendix 12. Rank of the warmest June in Leskovac

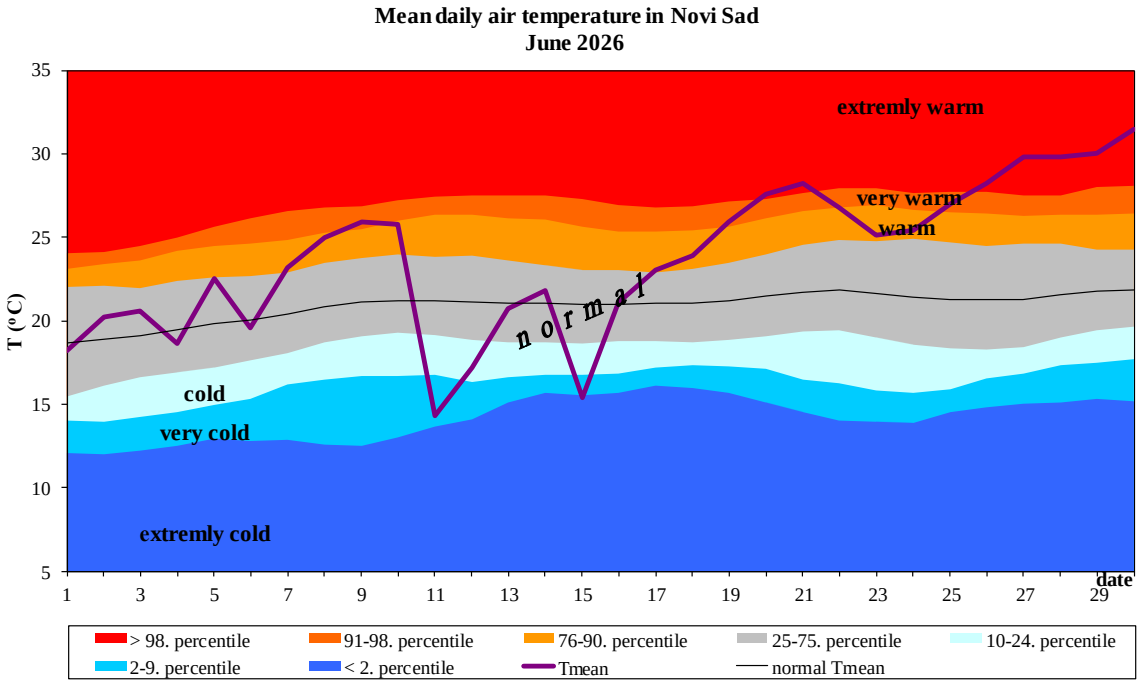


Appendix 13. Rank of the warmest June in Belgrade

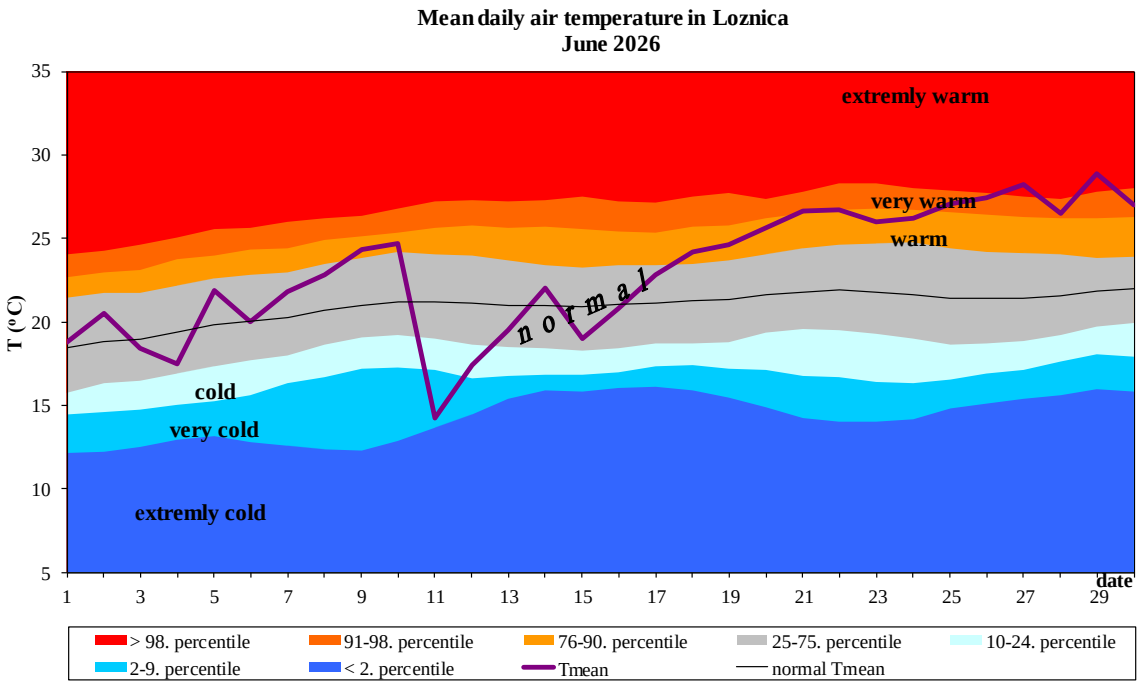
Mean air temperature



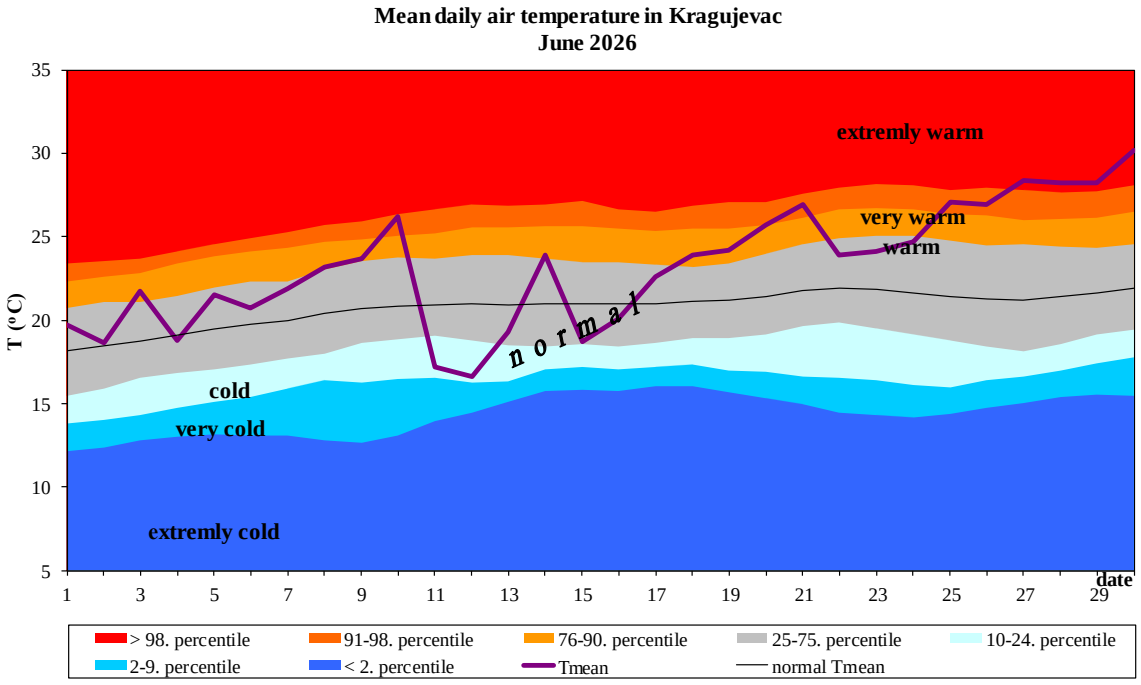
Appendix 14. Daily course of the mean daily air temperature and accompanying percentile for Sombor



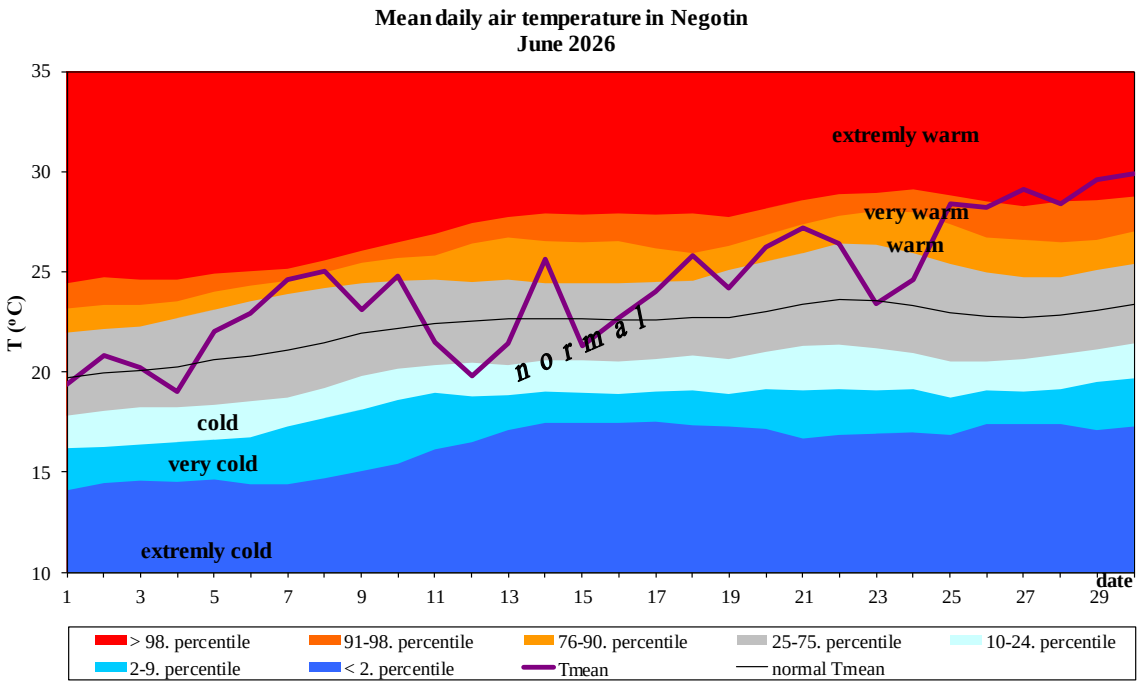
Appendix 15. Daily course of the mean daily air temperature and accompanying percentile for Novi Sad



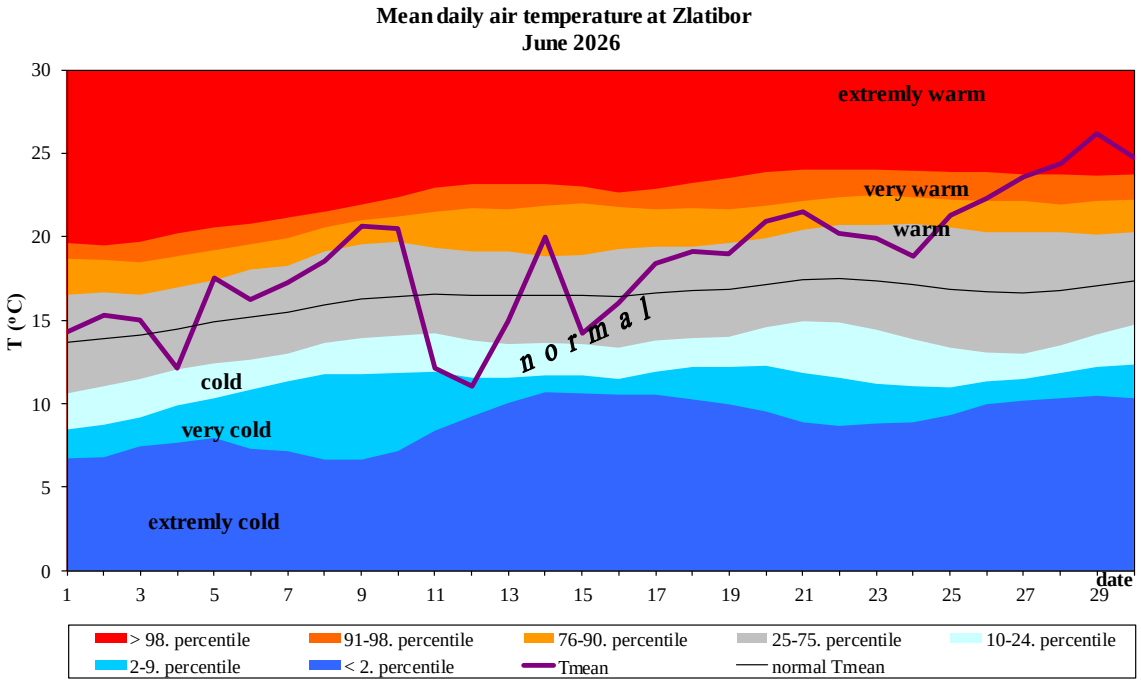
Appendix 16. Daily course of the mean daily air temperature and accompanying percentile for Loznica



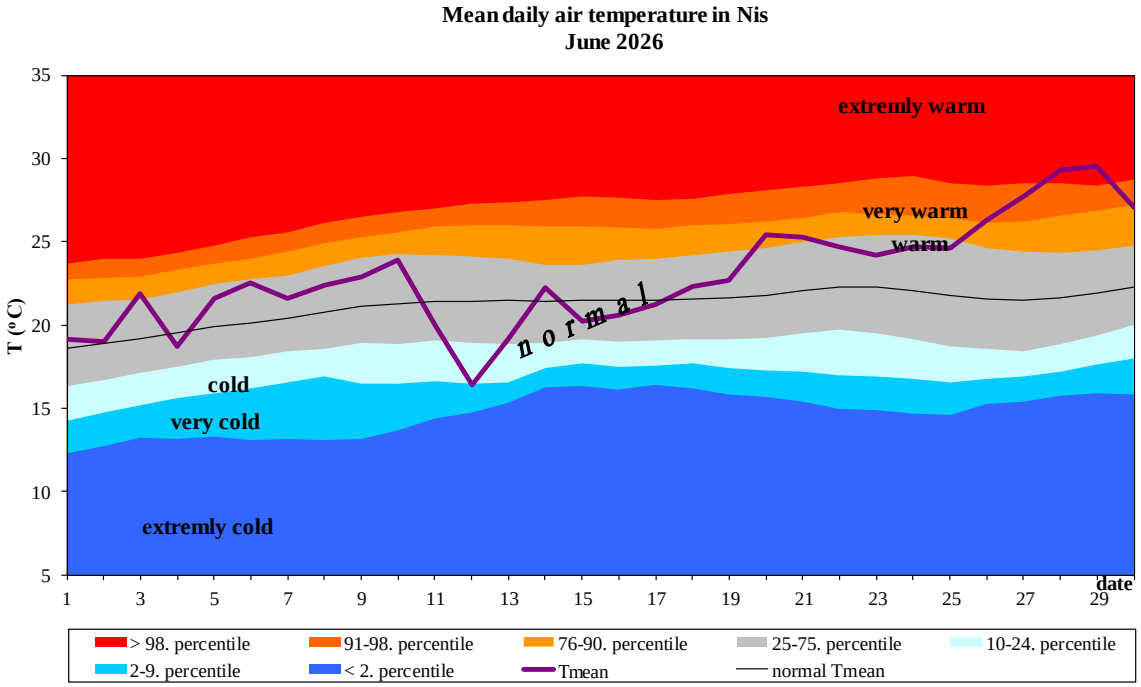
Appendix 17. Daily course of the mean daily air temperature and accompanying percentile for Kragujevac



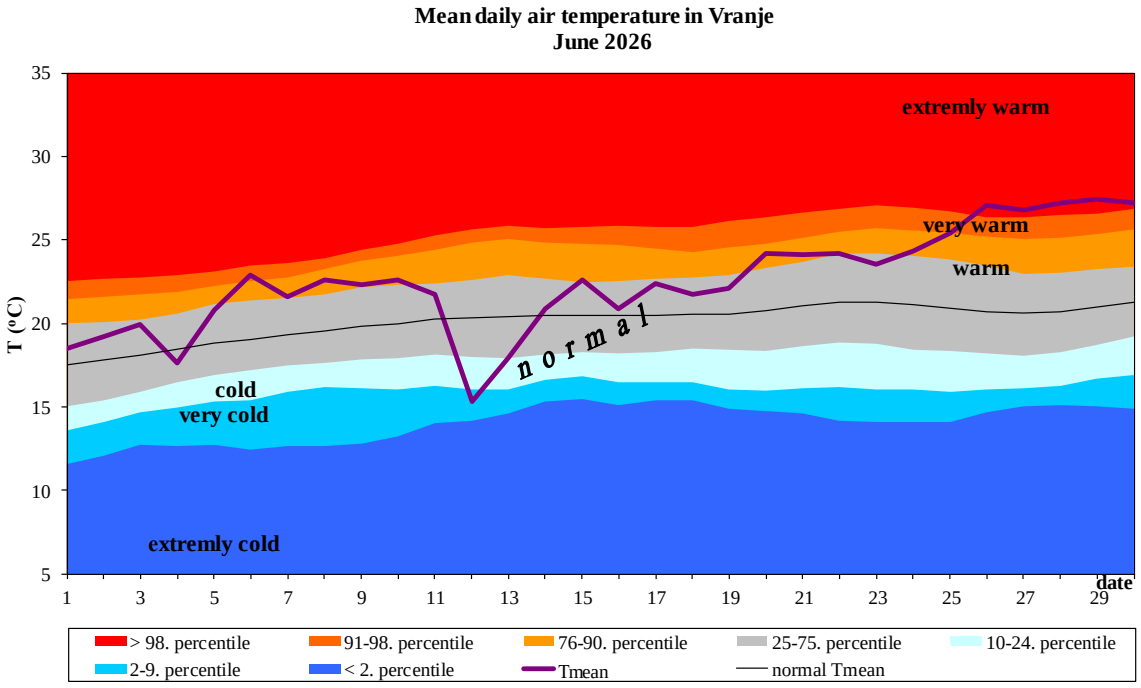
Appendix 18. Daily course of the mean daily air temperature and accompanying percentile for Negotin



Appendix 19. Daily course of the mean daily air temperature and accompanying percentile on Zlatiboru

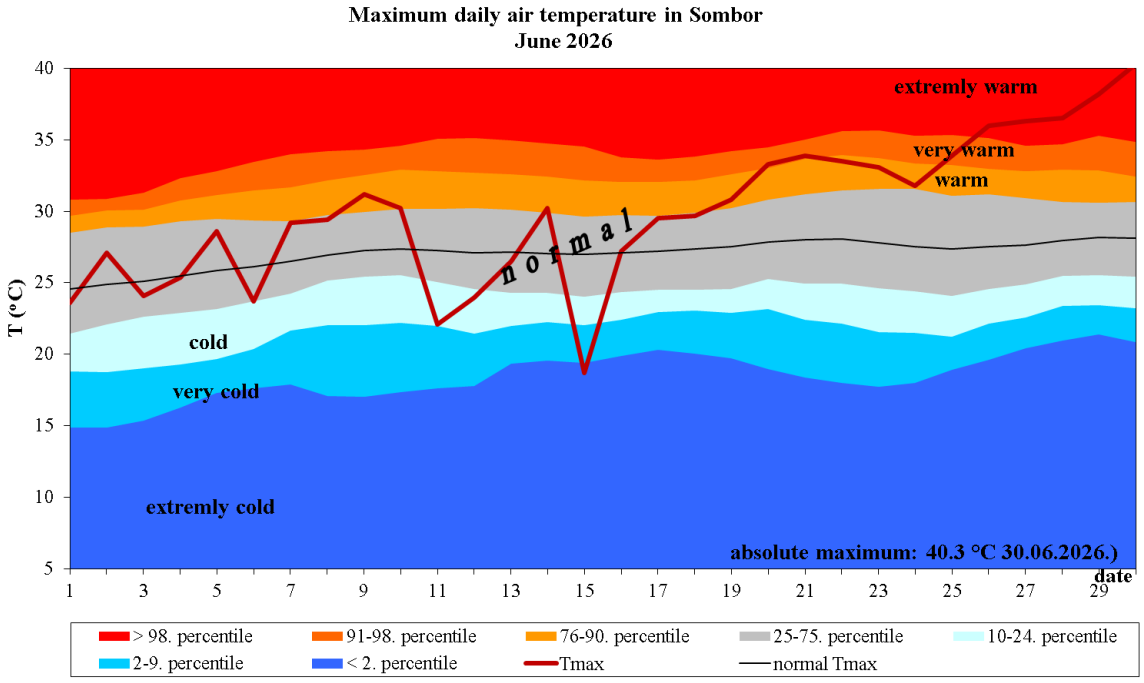


Appendix 20. Daily course of the mean daily air temperature and accompanying percentile for Nis

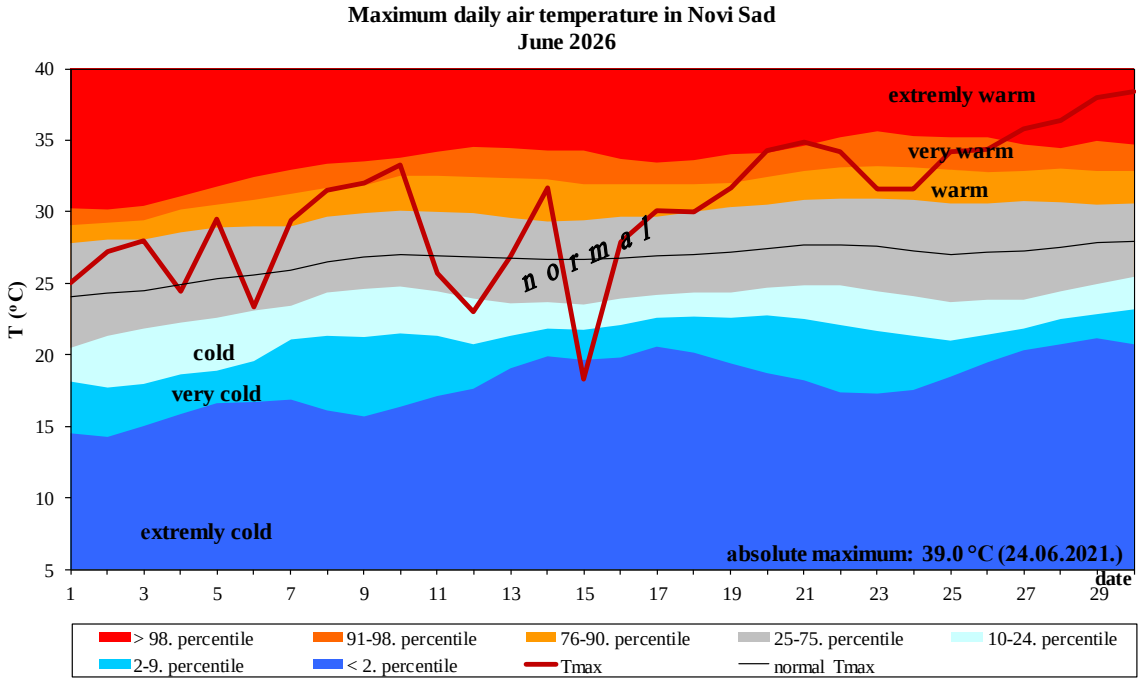


Appendix 21. Daily course of the mean daily air temperature and accompanying percentile for Vranje

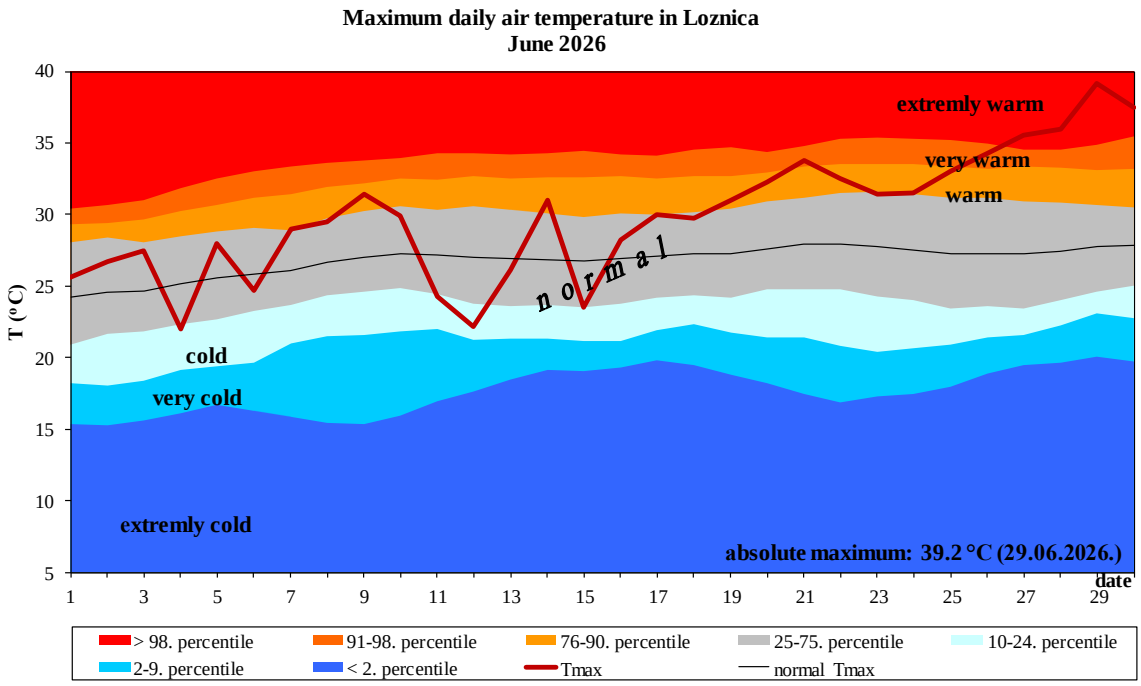
Maximum air temperature



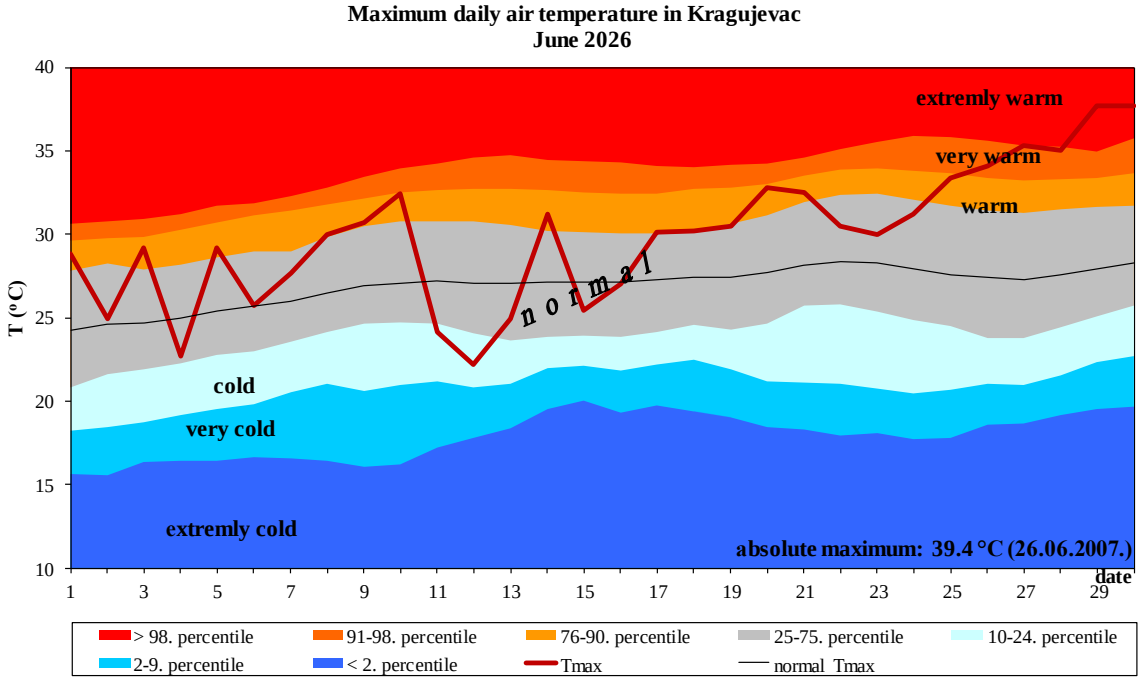
Appendix 22. Daily course of the maximum daily air temeperature and the accompanying percentile for Sombor



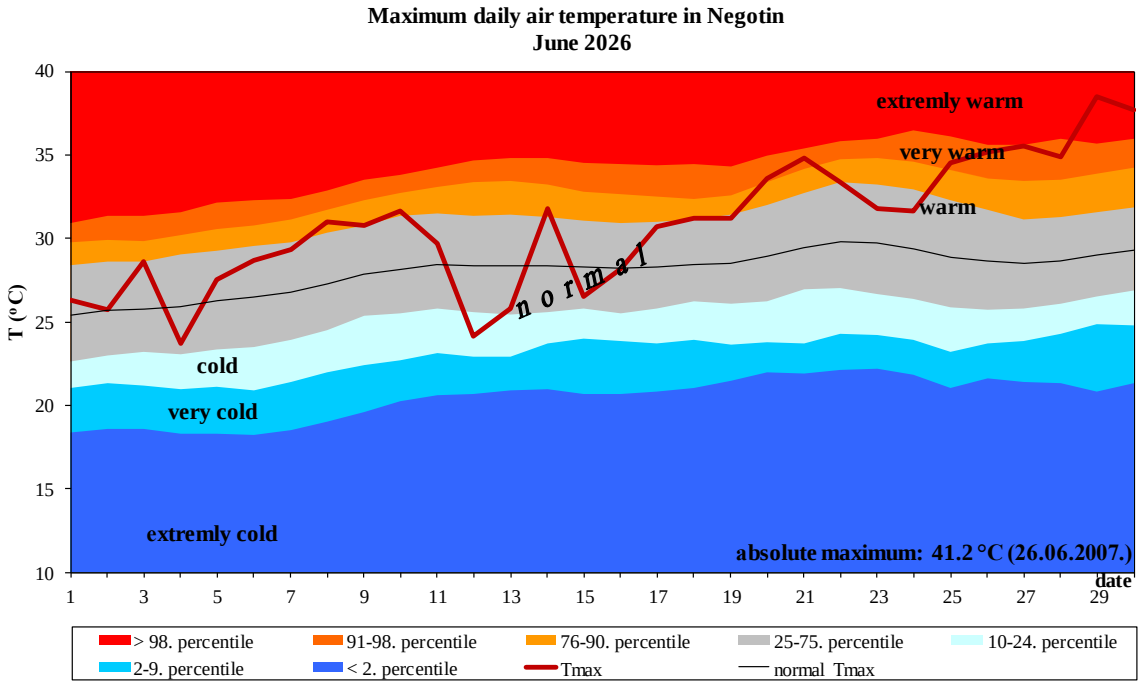
Appendix 23. Daily course of the maximum daily air temeperature and the accompanying percentile for Novi Sad



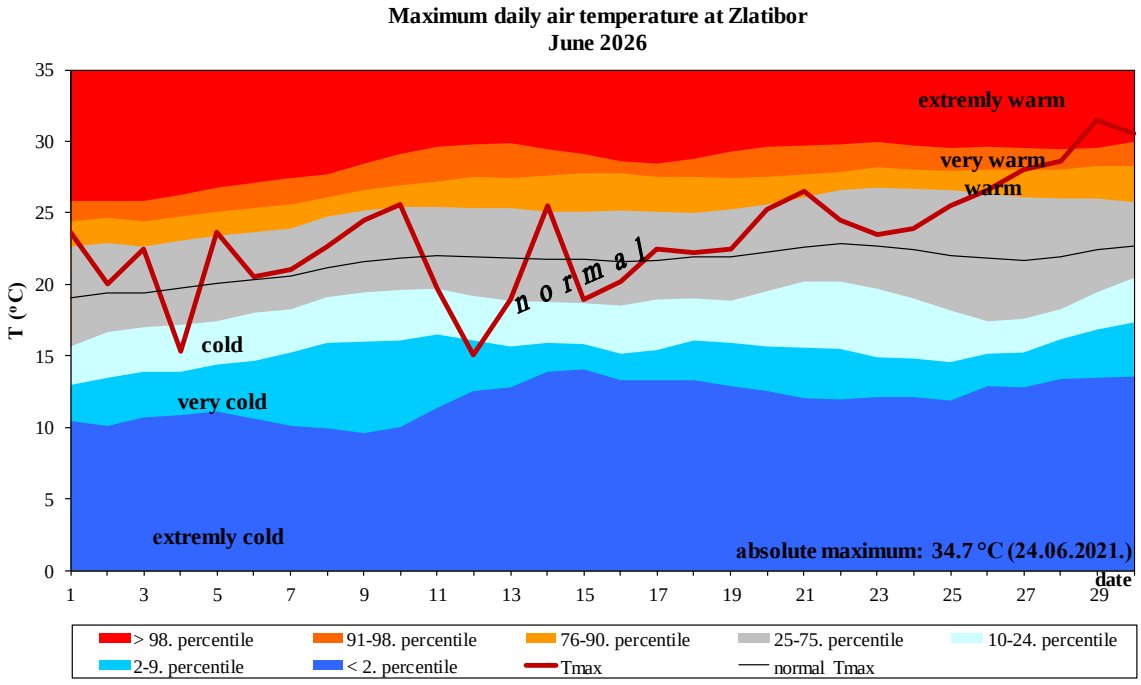
Appendix 24. Daily course of the maximum daily air temeperature and the accompanying percentile for Loznica



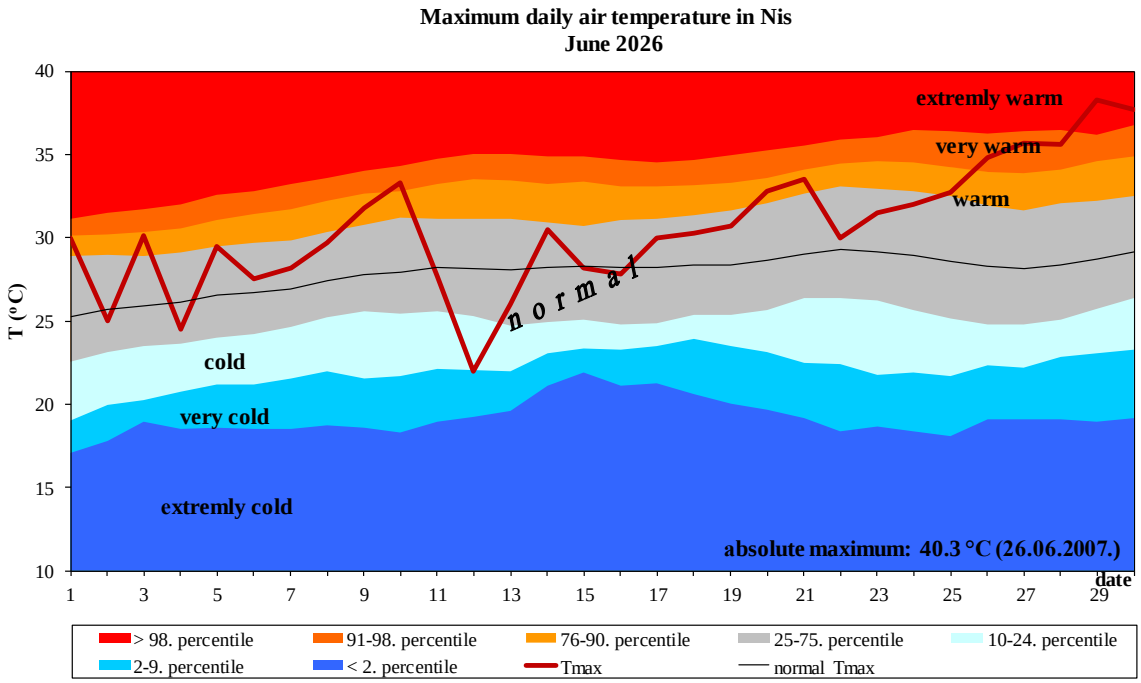
Appendix 25. Daily course of the maximum daily air temeperature and the accompanying percentile for Kragujevac



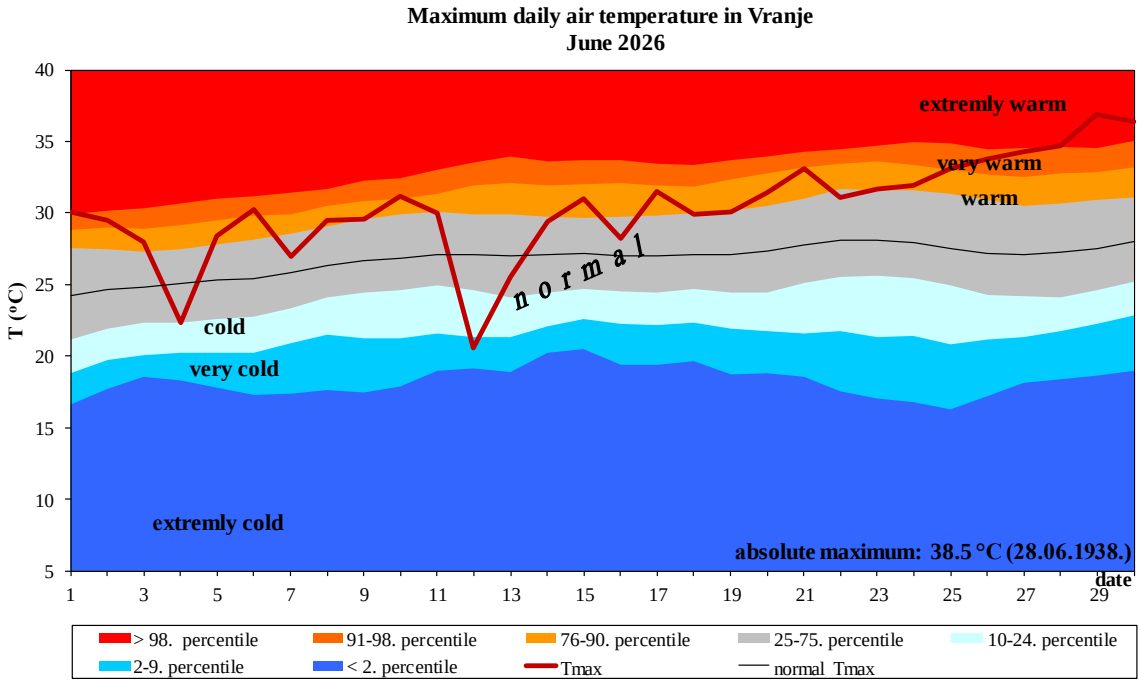
Appendix 26. Daily course of the maximum daily air temeperature and the accompanying percentile for Negotin



Appendix 27. Daily course of the maximum daily air temeperature and the accompanying percentile on Zlatibor

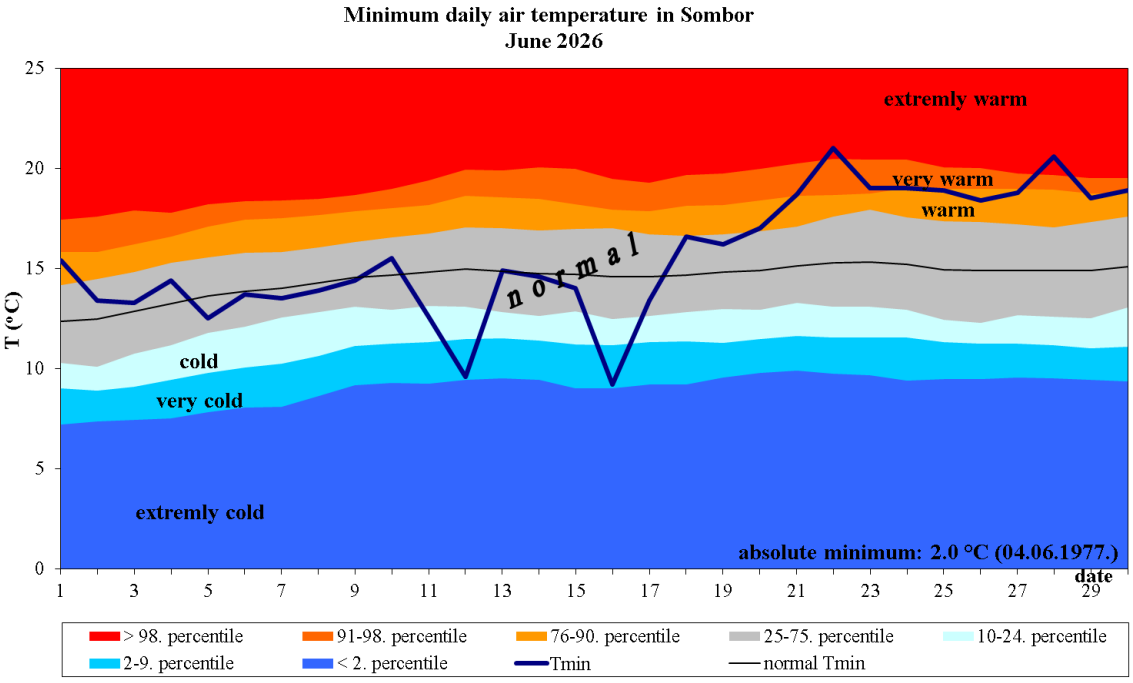


Appendix 28. Daily course of the maximum daily air temeperature and the accompanying percentile for Nis

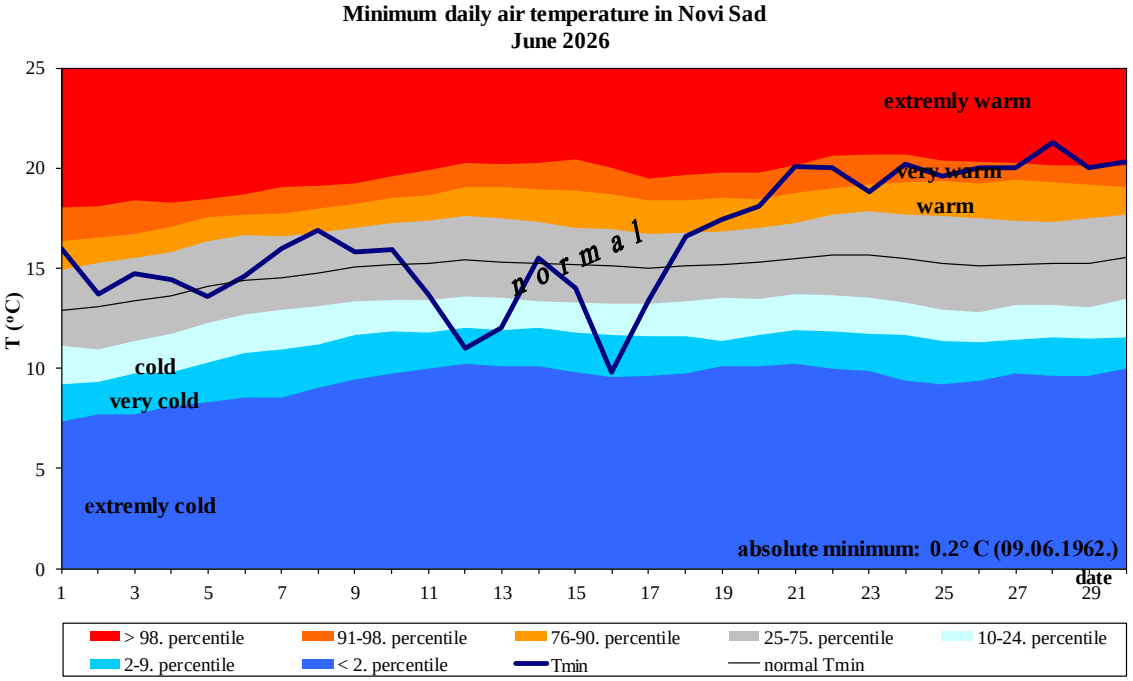


Appendix 29. Daily course of the maximum daily air temeperature and the accompanying percentile for Vranje

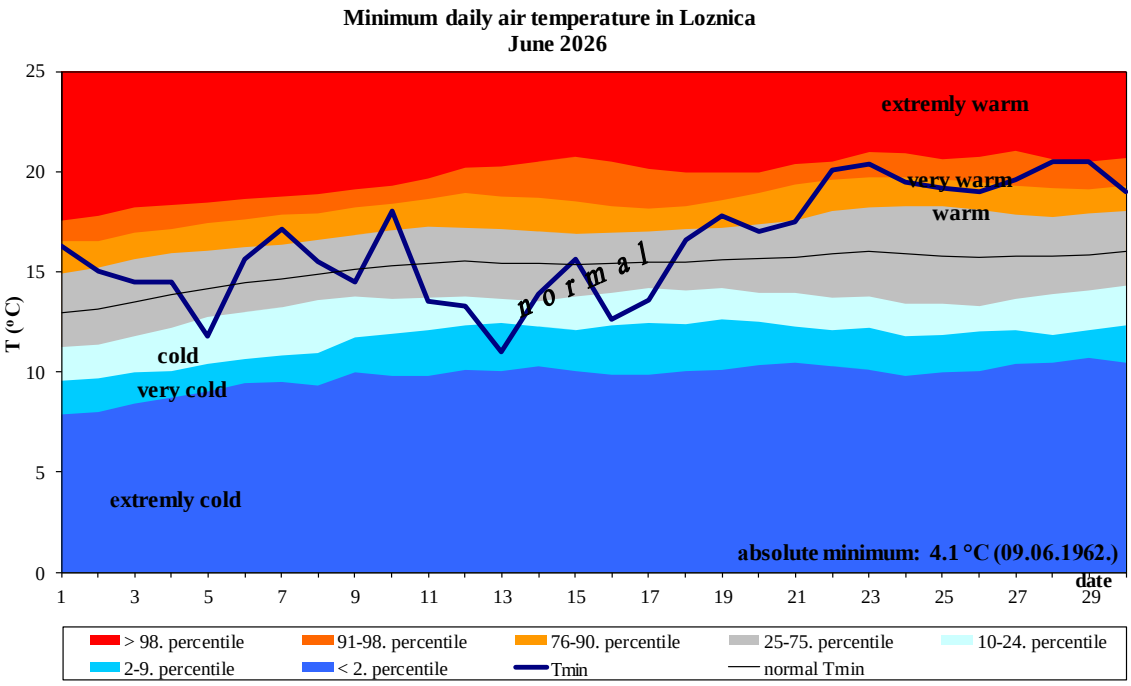
Minimum air temperature



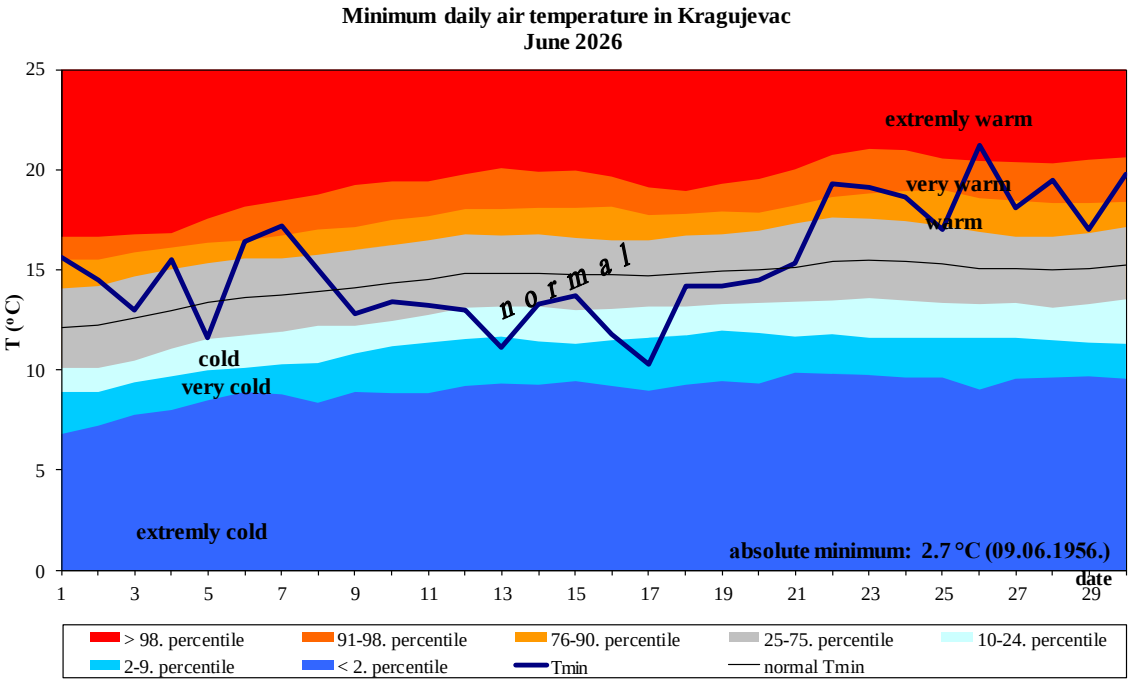
Appendix 30. Daily course of the minimum daily air temperature and the accompanying percentile for Sombor



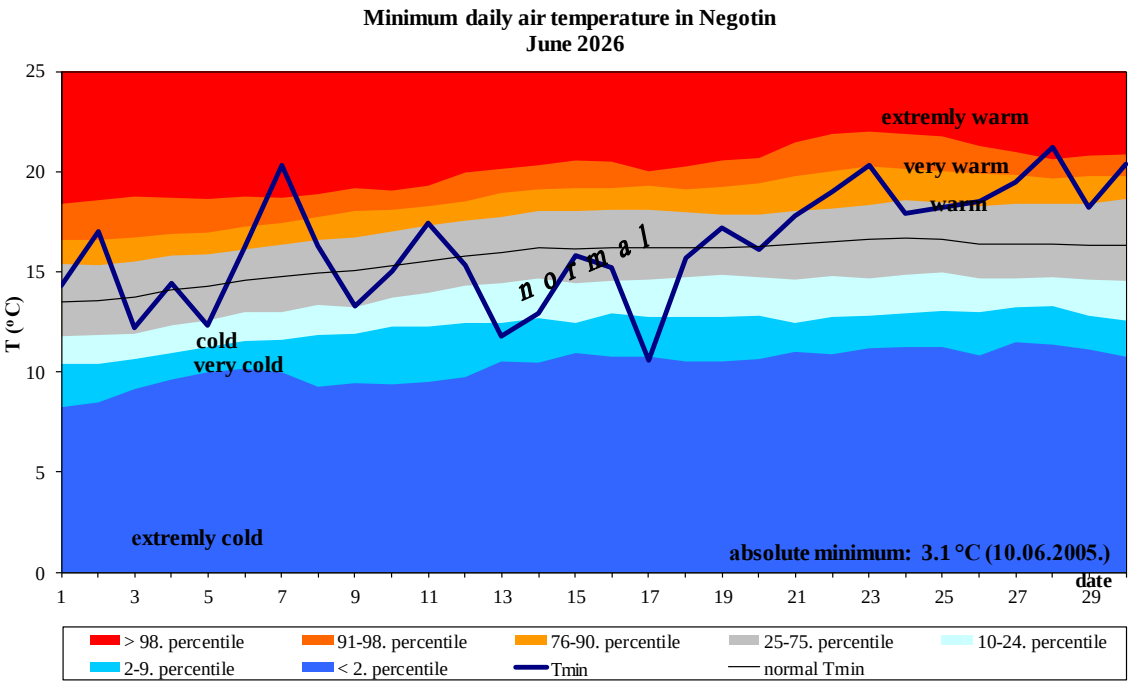
Appendix 31. Daily course of the minimum daily air temperature and the accompanying percentile for Novi Sad



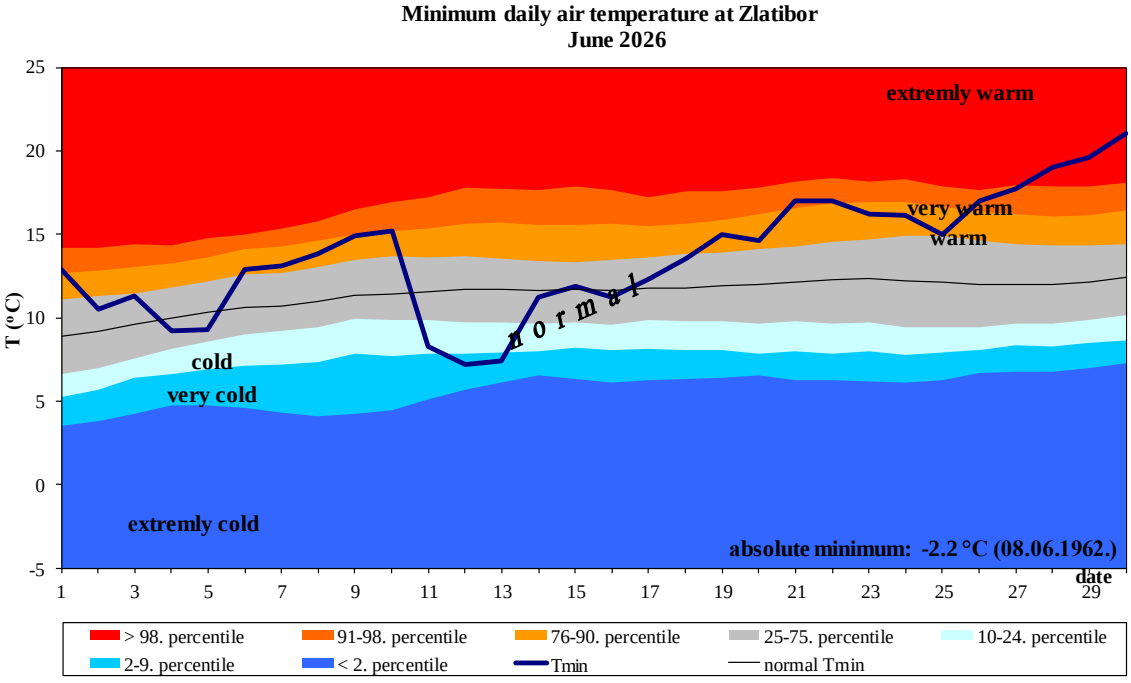
Appendix 32. Daily course of the minimum daily air temperature and the accompanying percentile for Loznica



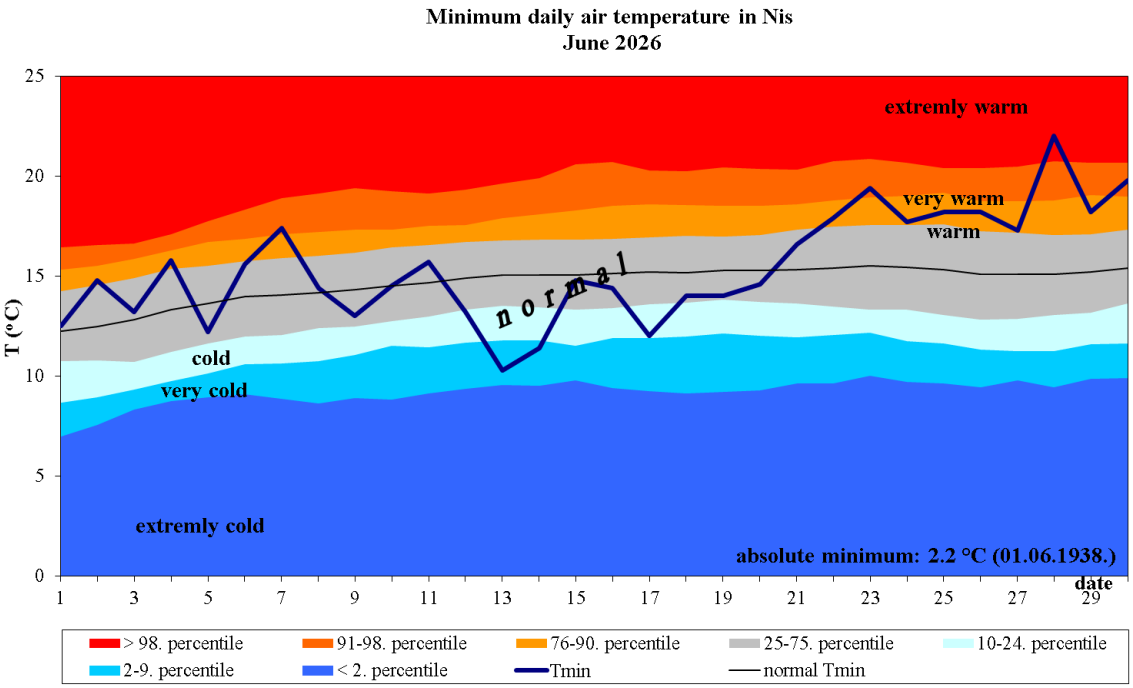
Appendix 33. Daily course of the minimum daily air temperature and the accompanying percentile for Kragujevac



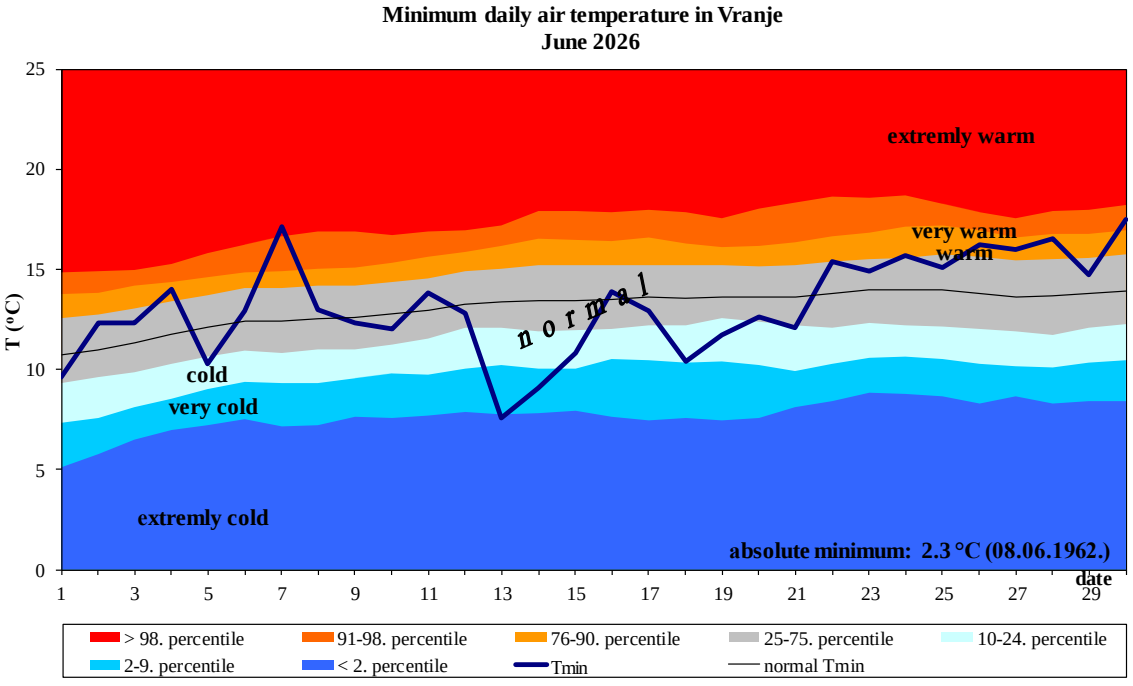
Appendix 34. Daily course of the minimum daily air temperature and the accompanying percentile for Negotin



Appendix 35. Daily course of the minimum daily air temperature and the accompanying percentile on Zlatibor

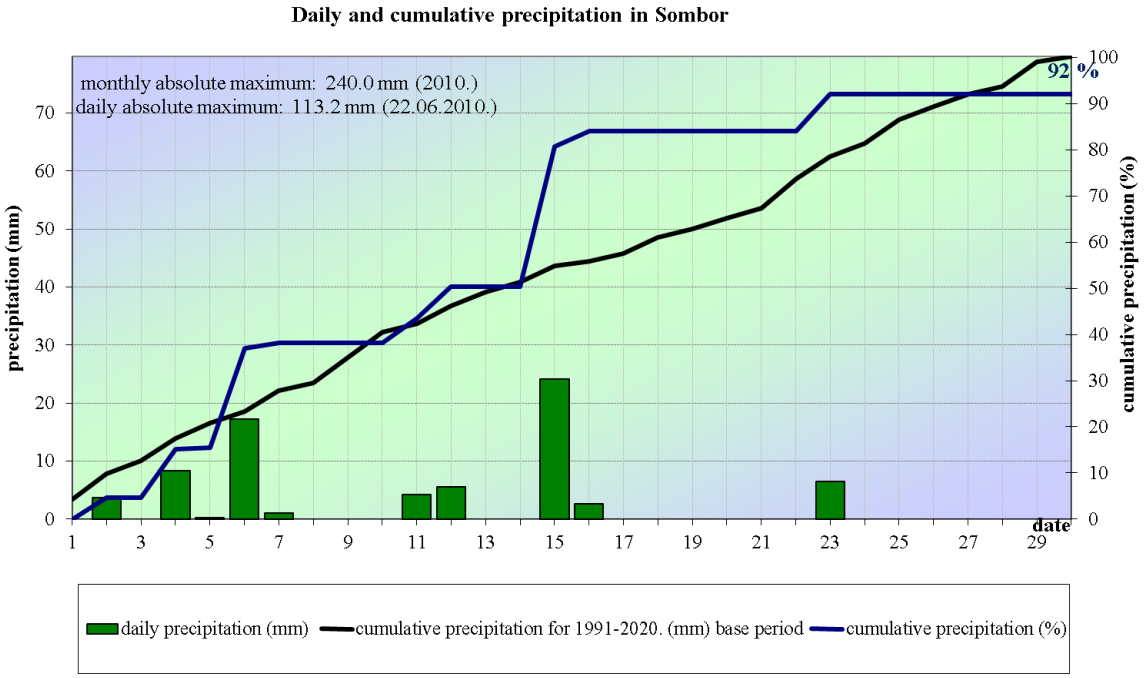


Appendix 36. Daily course of the minimum daily air temperature and the accompanying percentile for Nis

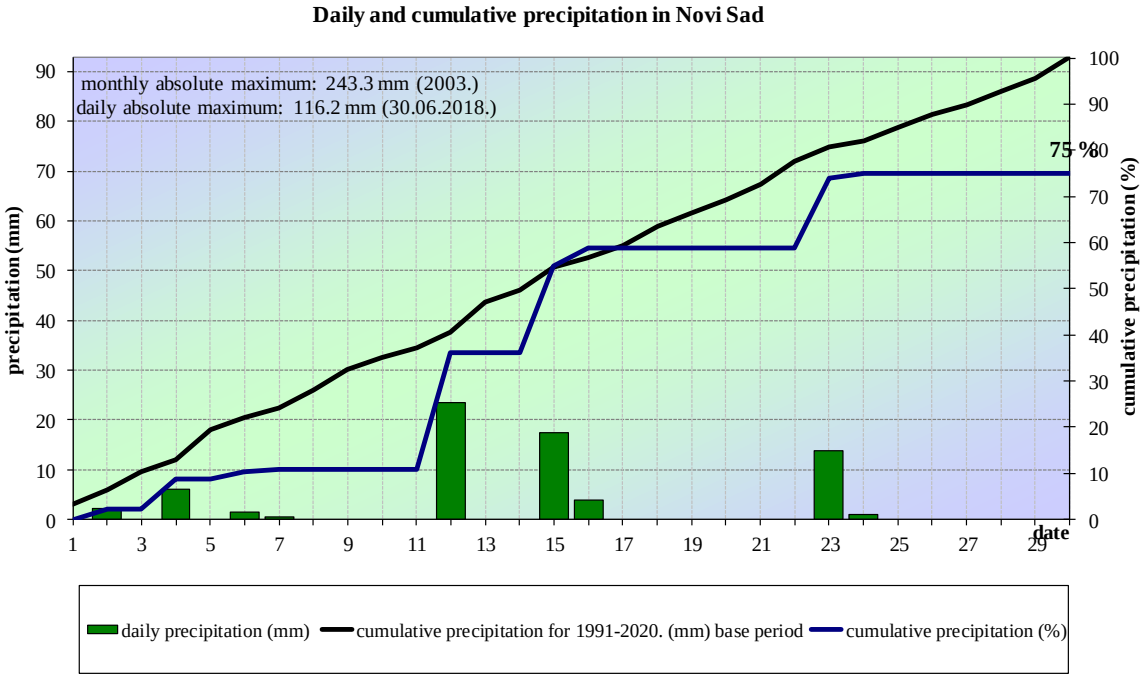


Appendix 37. Daily course of the minimum daily air temperature and the accompanying percentile for Vranje

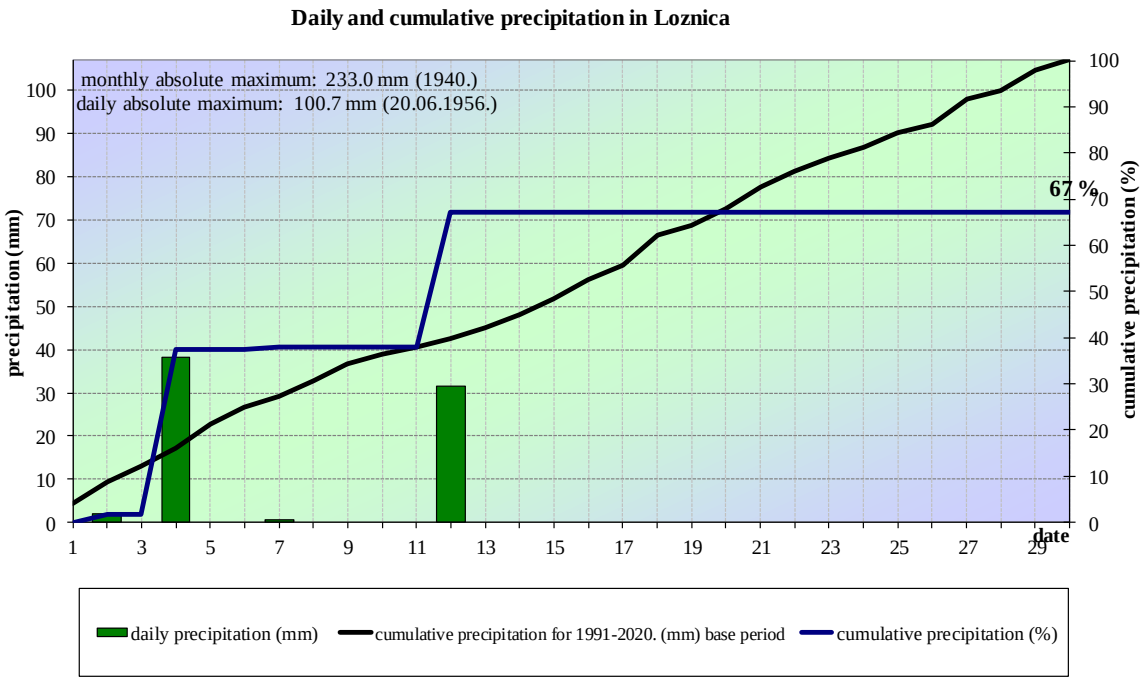
Precipitation



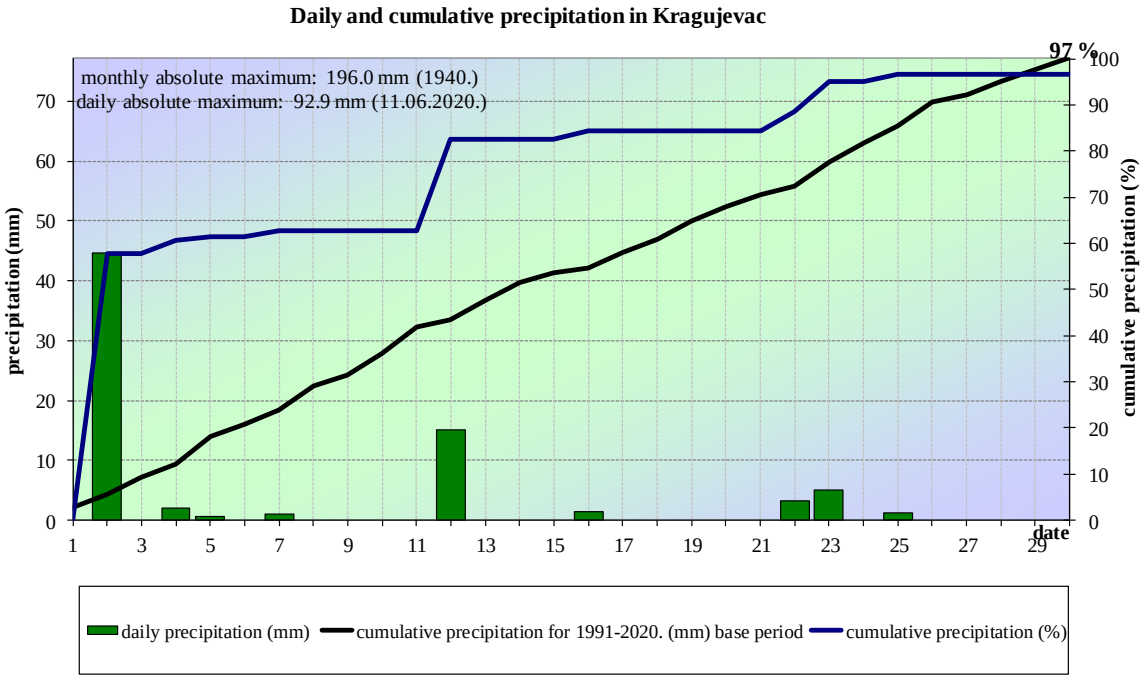
Appendix 38. Daily and cumulative precipitation sums for Sombor



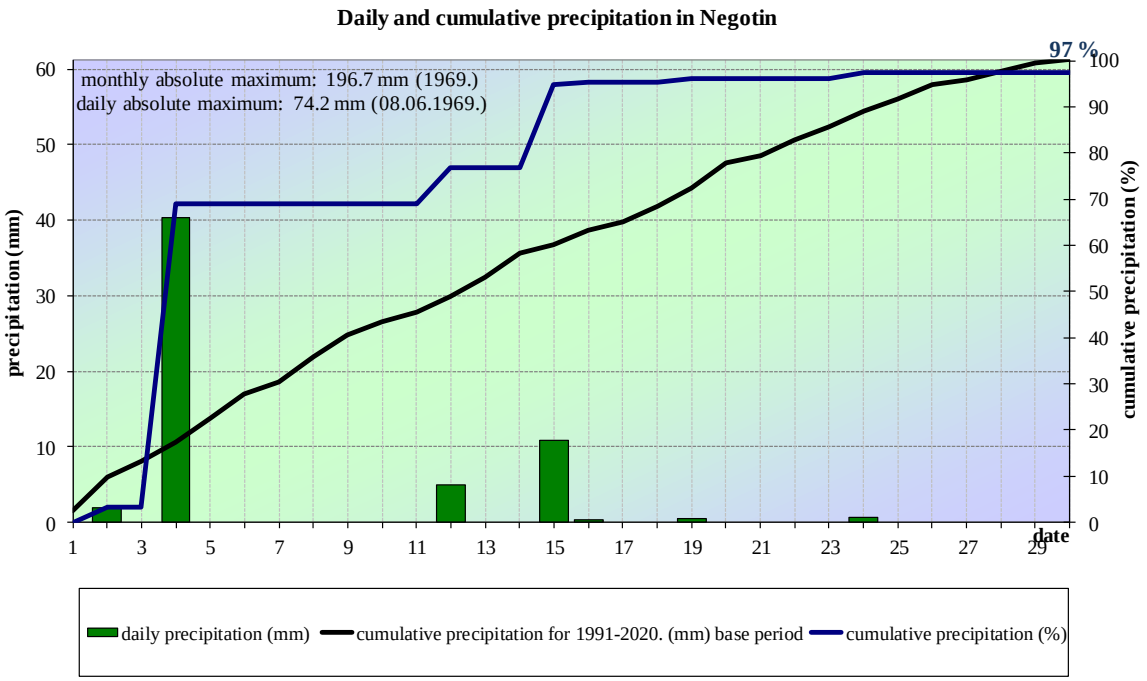
Appendix 39. Daily and cumulative precipitation sums for Novi Sad



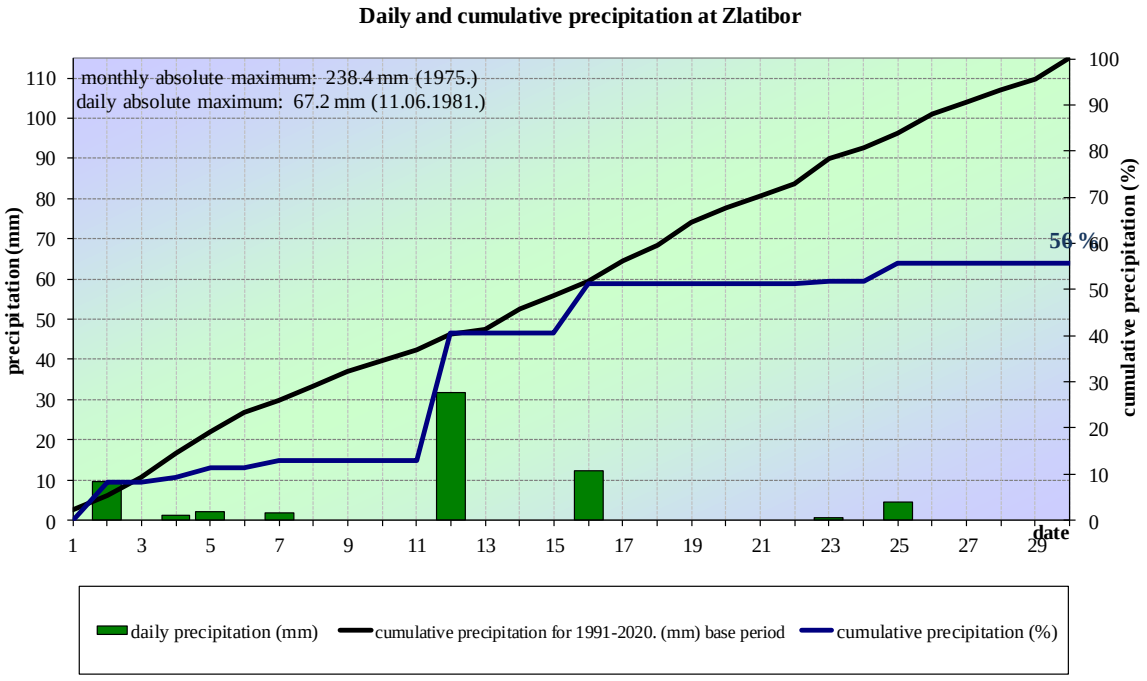
Appendix 40. Daily and cumulative precipitation sums for Loznica



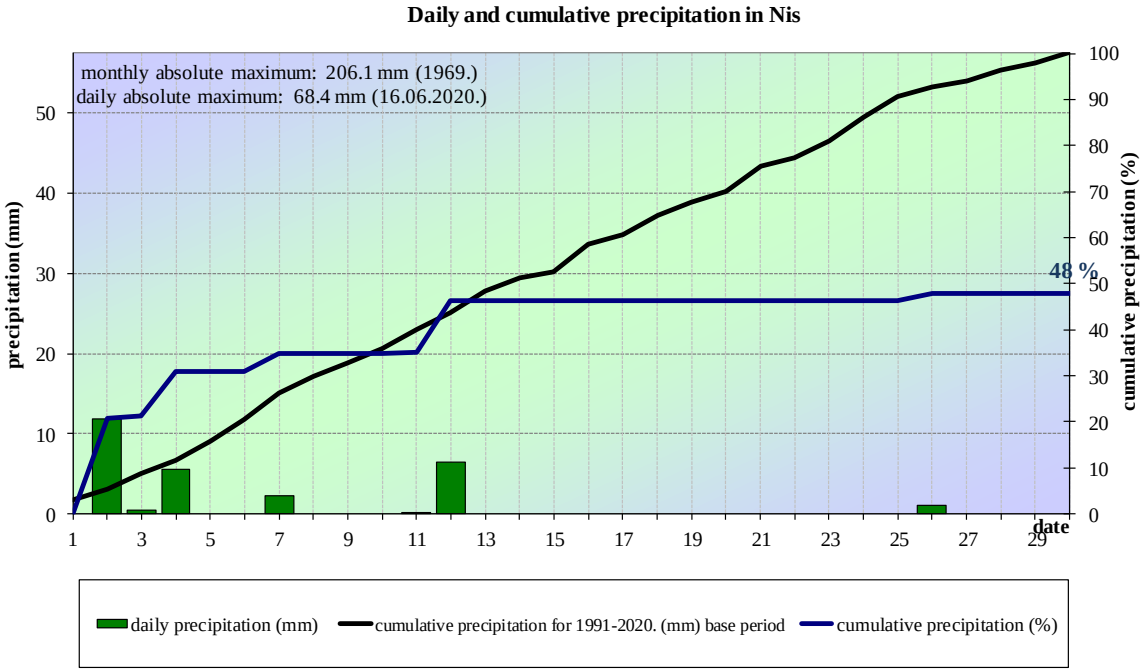
Appendix 41. Daily and cumulative precipitation sums for Kragujevac



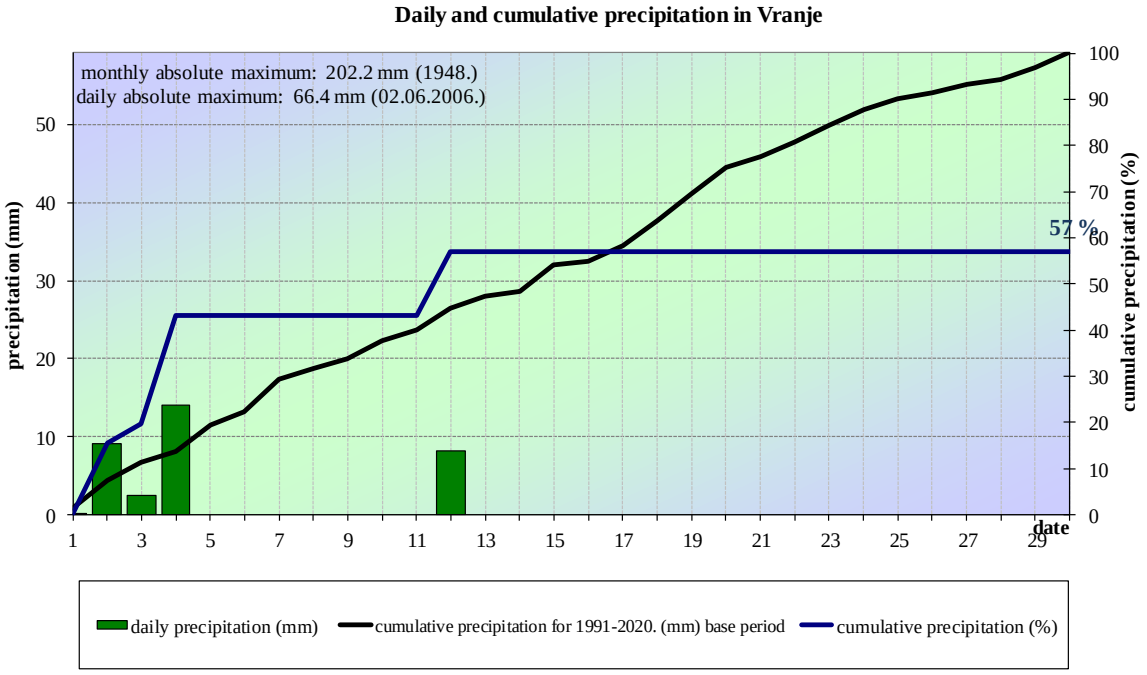
Appendix 42. Daily and cumulative precipitation sums for Negotin



Appendix 43. Daily and cumulative precipitation sums on Zlatibor



Appendix 44. Daily and cumulative precipitation sums for Nis



Appendix 45. Daily and cumulative precipitation sums for Vranje