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Republic Hydrometeorological Service
SOUTH EAST EUROPEAN VIRTUAL CLIMATE CHANGE CENTER
Department for climate forecast, information and training



**ANALYSIS OF THE SEVERE WEATHER
EVENT IN SERBIA –
COLD SPELL IN FEBRUARY 2012**

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Synoptic analysis of the cold spell in Serbia in January and February 2012

In the period between the end of January till the beginning of February 2012 most part of the European continent was under the prevalence of the spacious high atmospheric pressure (branch of Siberian anticyclone) and cold air mass, spreading to the northwestern African coast. Simultaneously, the cyclone emanating from central Mediterranean caused snowfall across much of Balkans and Pannonian plain.

Very cold weather and heavy snowfall accompanied with blizzard caused significant disruptions in the transport, electricity and food supply as well as property damage due to which several deaths were reported

In the period between February 5 and 11, in eastern and central parts of the continent, temperature was approximately 9 degrees below the multi-annual average but with the maximum daily air temperature not exceeding -15°C (*Figure 1*).

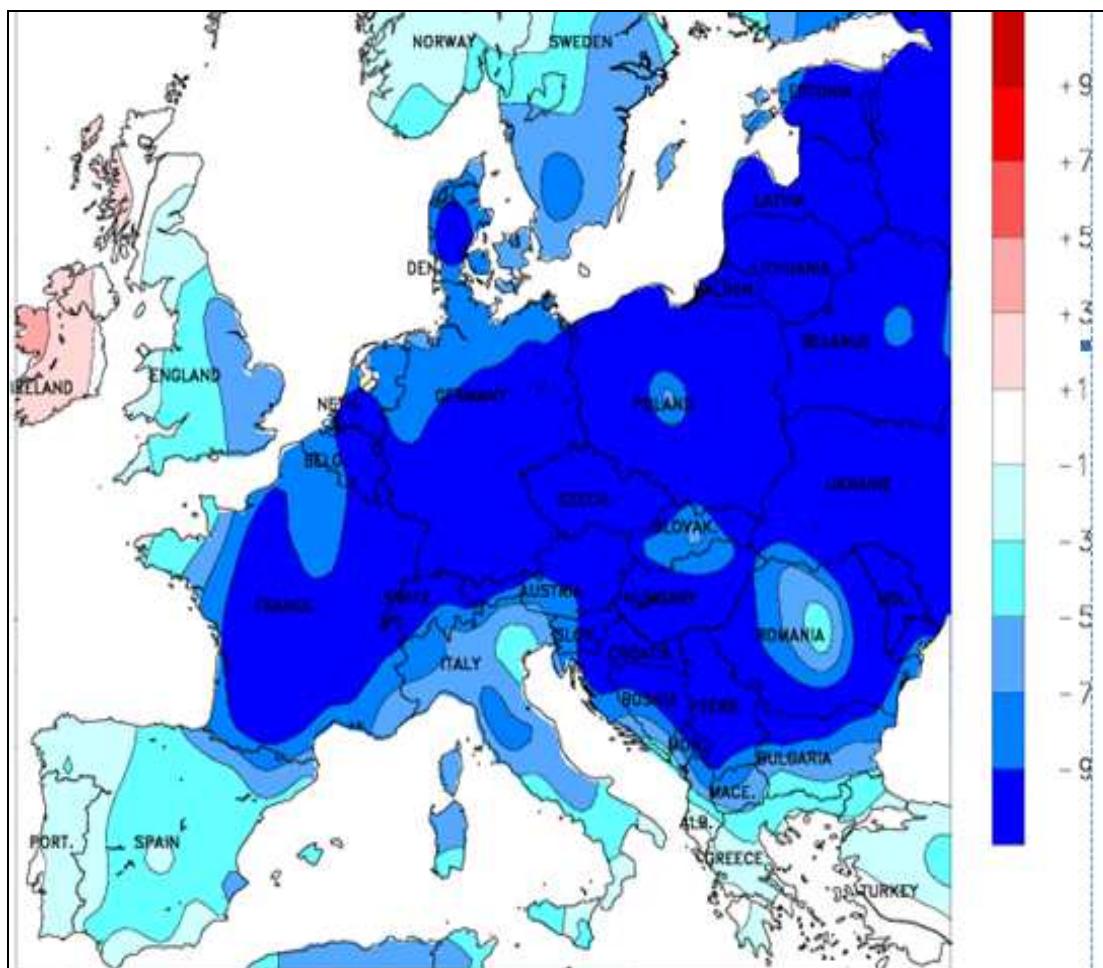


Figure 1: Temperature anomalies in Europe during February 5 – 11 2012 (Source: Climate Prediction Center, NOAA, USA)

The period between February 12 and 18 characterized the weakening of Siberian anticyclone above the western and central Europe ceasing the influence of very cold air, except in the eastern parts of the continent: Ukraine, Belarus and Russia (*Figure 2*).

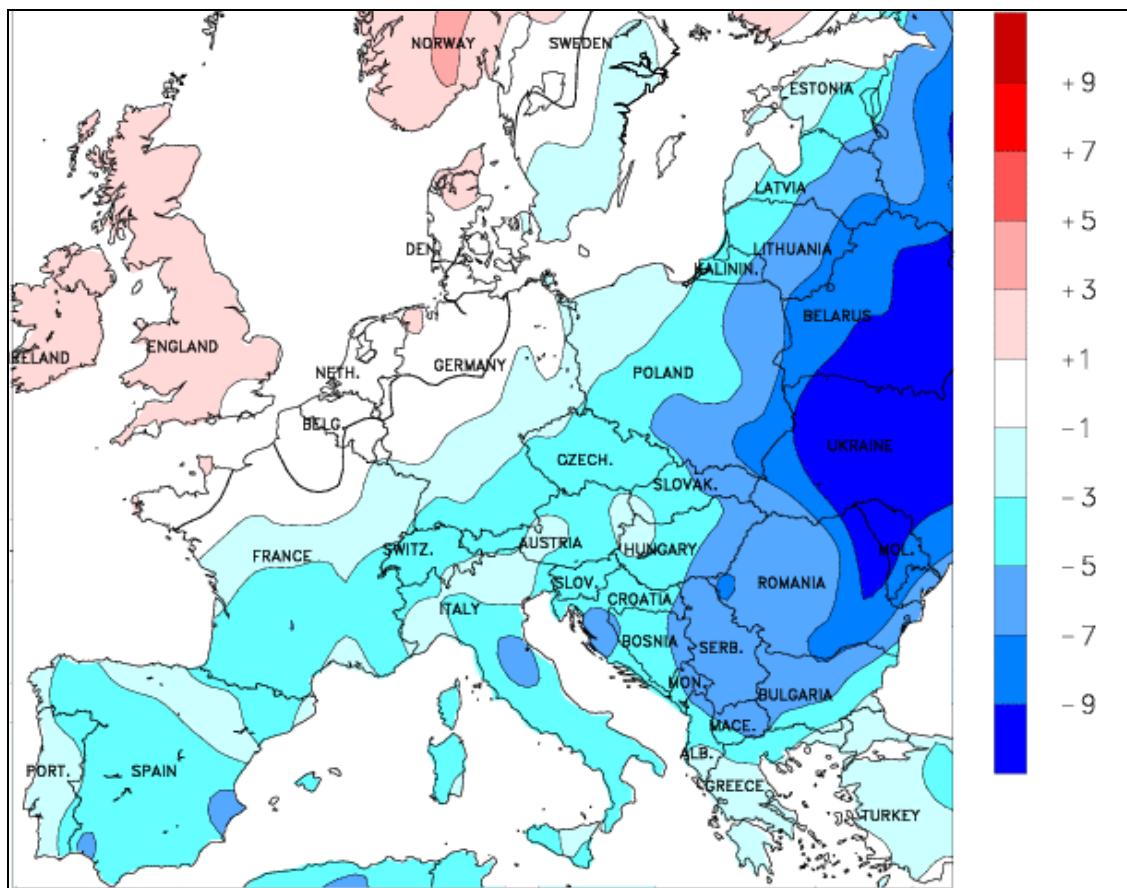


Figure 2: Temperature anomalies in Europe during February 12-18 2012 (Source: Climate Prediction Center, NOAA, USA)

At the end of January, nearly entire European continent was under the influence of Siberian anticyclone bringing dry and stable weather across entire Balkan Peninsula.

Cold weather accompanied by moderate to severe morning frost prevailed across entire Serbia with maximum daily air temperature not exceeding zero and with moderate and strong easterly and southeasterly wind in the mountainous areas and Podunavlje.

The beginning of the February characterized the movement of the artic air from north to south, followed by the transfer over the Alps and consequently causing the cyclone development in western Mediteranian which in the ensuing 14 days was in the interaction with Syberian anticyclone. High-altitude winds above the Apennine and Balkan Peninsula changed the flow regime to southwest with the cyclone transfer toward Ionian Sea and southern Adriatic to southern and southeastern. Humid and warmer high-altitude air masses produced heavy snowfall and extreme weather events in Serbia, Bosnia and Herzegovina and Montenegro.

The heaviest snowfall was recorded between February 3 to 5 when the existing snow cover was substantially increased, particularly in northern Serbia where it was absent

thus far. Snow cover was formed both on the coast and islands in the Adriatic Sea. Occasional wind gusts caused snow storms and blizzards (*Figure 3*).

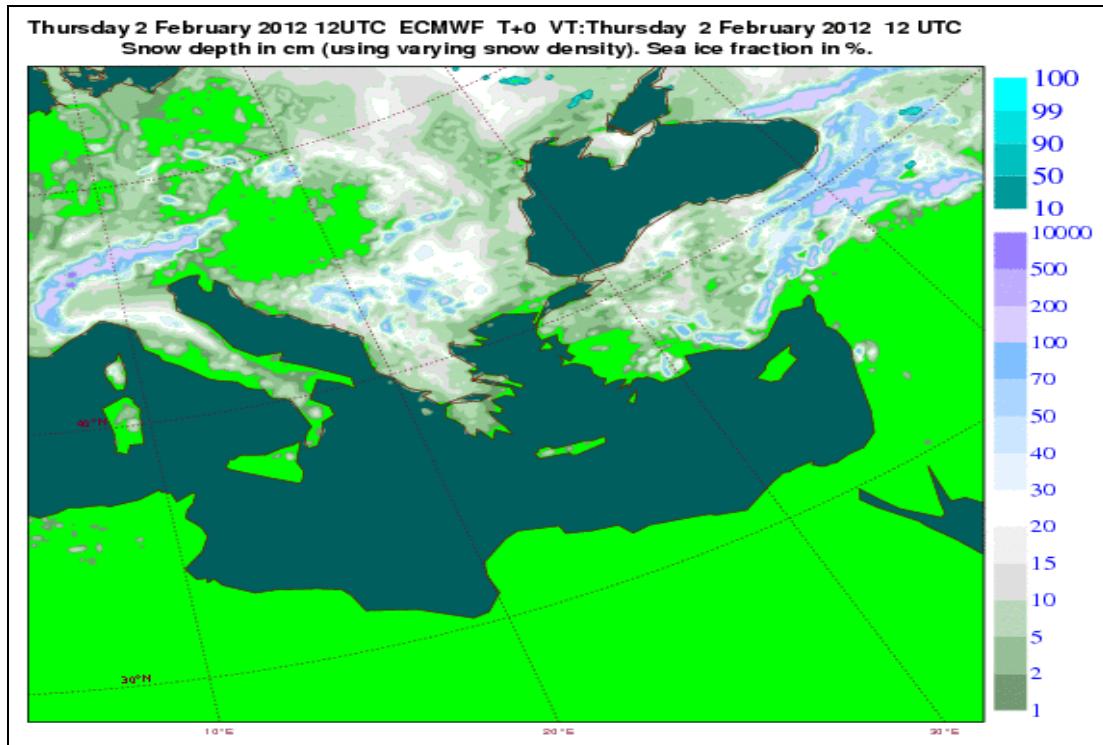


Figure 3: Snow depth expressed in cm February 2 2012

Early in the afternoon on February 3 an unusual occurrence of thunderstorms was recorded in Montenegro and southwestern Serbia.

The period until February 7 characterized weather with occasional light snow due to the weakening of the cyclonic field. Between February 8 and 10, the strengthening of the anticyclonic field above central Europe took place, causing clearing and producing mostly dry and very cold weather accompanied with severe overnight and morning frost as well as ice days across entire Serbia. Extreme cold weather conditions are observed in Pomoravlje and Vojvodina (*Figure 4*).



Figure 4: Minimum air temperature February 9 2012

Affected by another cyclone originating from the central Mediterranean the new worsening of weather took place between February 11 and 13. Most places observed continuous heavy snowfall contributing to accumulation of significant amounts of snow across the country. In the hills and mountainous areas of southern and southwestern Serbia, northern Montenegro and Hercegovina the snow depth exceeded 200 cm (*Figure 5*).

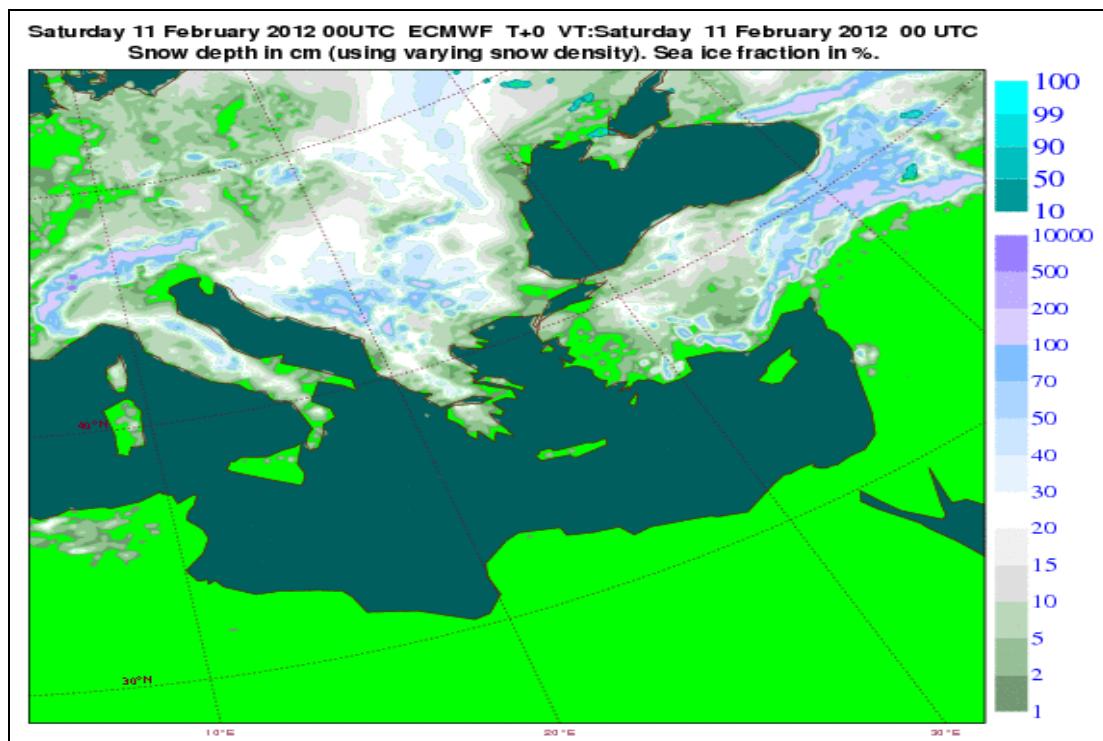


Figure 5: Snow depth expressed in cm February 2 2012

Recorded values of snow depth: Podgorica (58 cm (the previous record was 52 cm)), Mostar (81 cm), Sarajevo (107 cm), Gacko (110 cm), Nevesinje (140 cm), Kolasin, Ivan Sedlo and Cemerno (180 cm) and Zabljak (210 cm).

The weather situation that encompassed entire Serbia and its vicinity during this period is classified as a severe and hazardous meteorological occurrence. The extreme character of this event is reflected through heavy snowfall accompanied with blizzards and the formation of the high snow depth. In the mountain areas, canyons and gorges snow avalanches were observed.

The weakening of the Syberian anticyclone on February 14 was followed by the influx of cold air bringing fleeting snow and increased northwesterly wind. In the period after February 15, the cold arctic air withdrew from the Balkans and Pannonian Plain and was replaced by warmer Atlantic air masses leading to temperature rise and snowmelt (*Figure 6*).

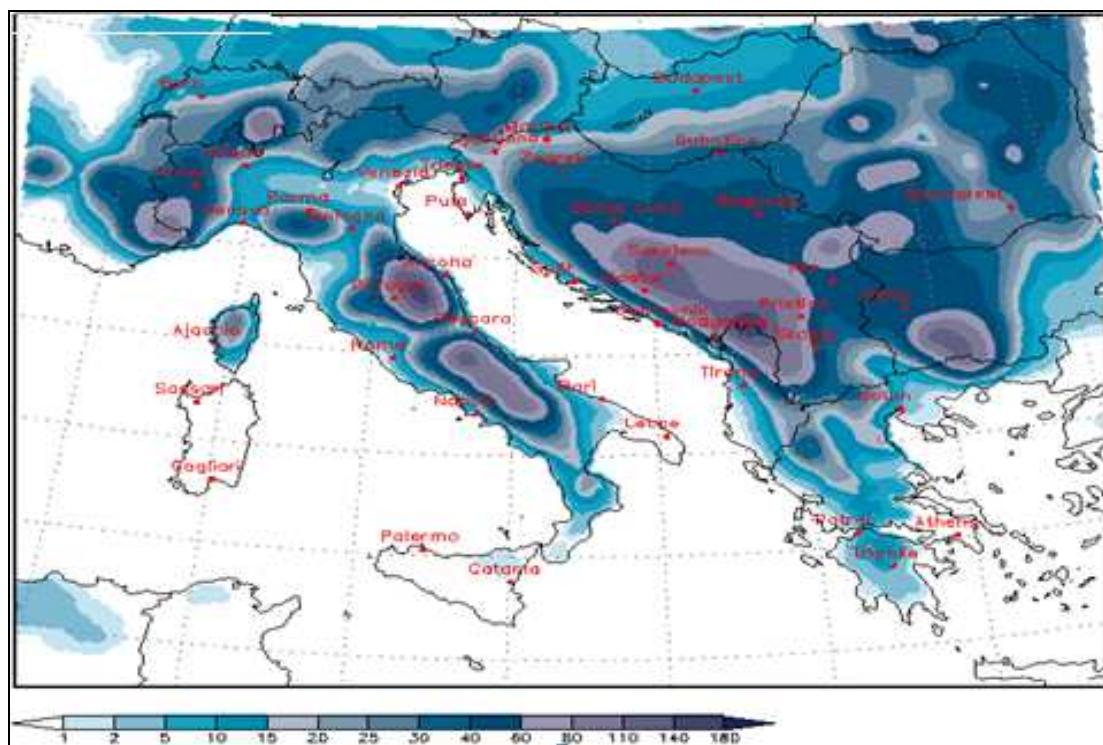


Figure 6: Snow depth 15.02.2012 at 06 UTC

Overview of the synoptic charts of Europe with satellite images of cloud cover, streamlines and temperatures on the 500 hPa chart during February 1-16 2012 at 00 UTC is provided at the end of the document (*Appendix 1*).

Overview of the climatic elements on the territory of Serbia in the period from January 27 to February 21 2012

During the period between January 27 and February 21 weather conditions in Serbia were characterized by the following climate features of the extreme events:

- **Temperatures:** on the basis of the observed minimum and maximum air temperatures, the weather conditions in Serbia had the features of the cold spell¹, number of consecutive extremely cold² and ice days³ as well as record-breaking temperatures at several places.
- **Biometeorological conditions:** due to the combination of wind and humidity the effective air temperature⁴ was exceptionally low, accentuating the cold feel up to 5 degrees more than the observed temperature.
- **Precipitation regime:** the new snow depth records were set at several meteorological stations in Serbia.

Climatic elements

Air temperatures (mean, maximum and minimum daily) as well as precipitation (precipitation totals and snow depth) are presented in this analysis.

The assessment of the climatic elements is conducted on the basis of the climatological data from the main meteorological stations. The air temperature measurements are carried out three times a day: 7am, 2pm and 9pm. The mean daily air temperature is calculated using this formula:

$$T_{mean} = \frac{T_7 + T_{14} + 2T_{21}}{4}.$$

Maximum and minimum air temperature is measured at 9pm.

Precipitation and snow depth are measured at 7am and indicate the precipitation amount, that is snow depth for the previous 24 hours.

¹ Cold spell in climatology is defined as the period of 5 or more consecutive days with minimum temperature significantly below the average (very cold and extremely cold weather)

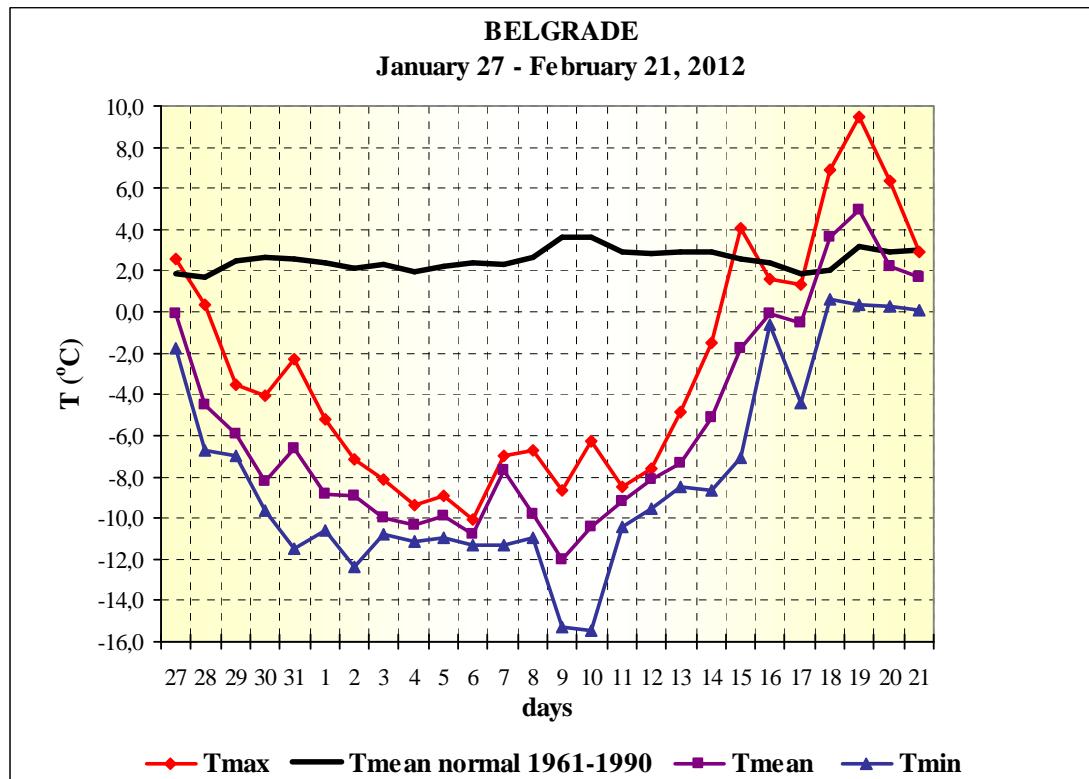
² Extremely cold day is defined as the day with minimum and maximum temperature below the 2nd percentile

³ Ice day is defined as the day with maximum air temperature below 0°C

⁴ Effective temperature is defined as the temperature that human body feels due to the impact of other meteorological factors

Air temperature

In the period between January 28 and February 15, mean, maximum and minimum daily air temperatures were significantly below the average compared to the 1961 – 1990 base period (*Graph 1*).



Graph 1: Mean, maximum and minimum air temperatures in Belgrade between January 27 and February 21 2012 compared to the 1961 – 1990 base period

Graphs depicting mean, maximum and minimum air temperatures between January 27 and February 21 compared to the 1961-90 base period for the main meteorological stations in Serbia are provided at the end of the document (*Appendix 2*).

Mean daily air temperature

February 9 was marked as the coldest day in Serbia, during this period, with the mean daily air temperature in Banatski Karlovac falling to -20,6°C. That same day, the highest mean temperatures, measuring -11,3°C and -12,0°C were recorded in Vranje and Belgrade, respectively (*Chart 1*).

The lowest daily air temperatures, amounting to 20,6°C was observed on two occasions, January 31 in Sjenica and February 9 in Banatski Karlovac.

Maximum air temperature

In the period from the end of January till mid-February, the maximum daily air temperature in Serbia was significantly below the normal compared to the 1961-90 base period. This deviation was even 19 degrees below the normal as observed on Crni Vrh Mountain on February 9.

The end of January characterized very cold weather while in February extremely cold weather was registered according to the observed maximum air temperatures. In the first two weeks of February ice days were recorded across entire Serbia with the exception from Vranje and Dimitrovgrad, with the maximum temperatures above zero on February 11 and 12 (*Figure 7*).

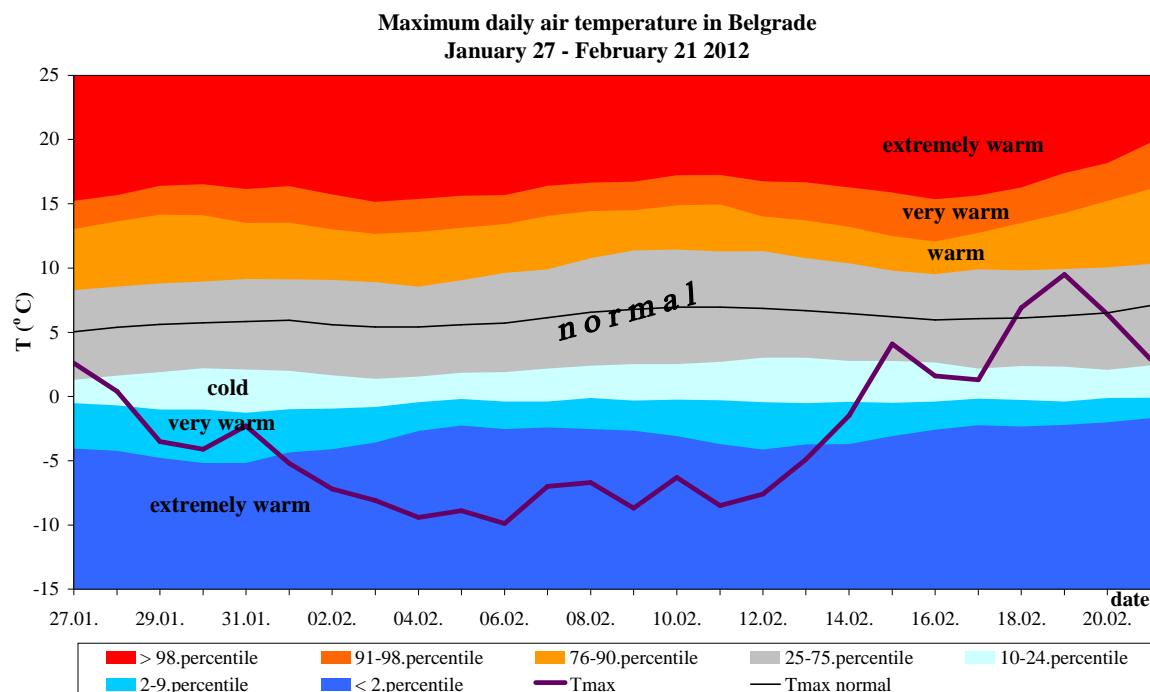


Figure 7: Maximum air temperature in Belgrade between January 27 and February 21 2012 (red line) and climate normals (1961-90 base period)

Diagrams of the observed maximum air temperatures for the main meteorological stations in Serbia are provided at the end of the document (*Appendix 3*).

On January 27 was the onset of the period marked by ice days in southeastern areas of Serbia. In the beginning of February, consecutive ice days were recorded across the entire country, ranging from 15 in Vranje and Vrsac to 24 on Kopaonik Mountain (*Chart 2*). The average number of ice days in February for the majority of the main meteorological stations, for the 1961-90 base period, was less than 5 consecutive days, whereas in the mountainous areas this number was in a range between 10 to 19.

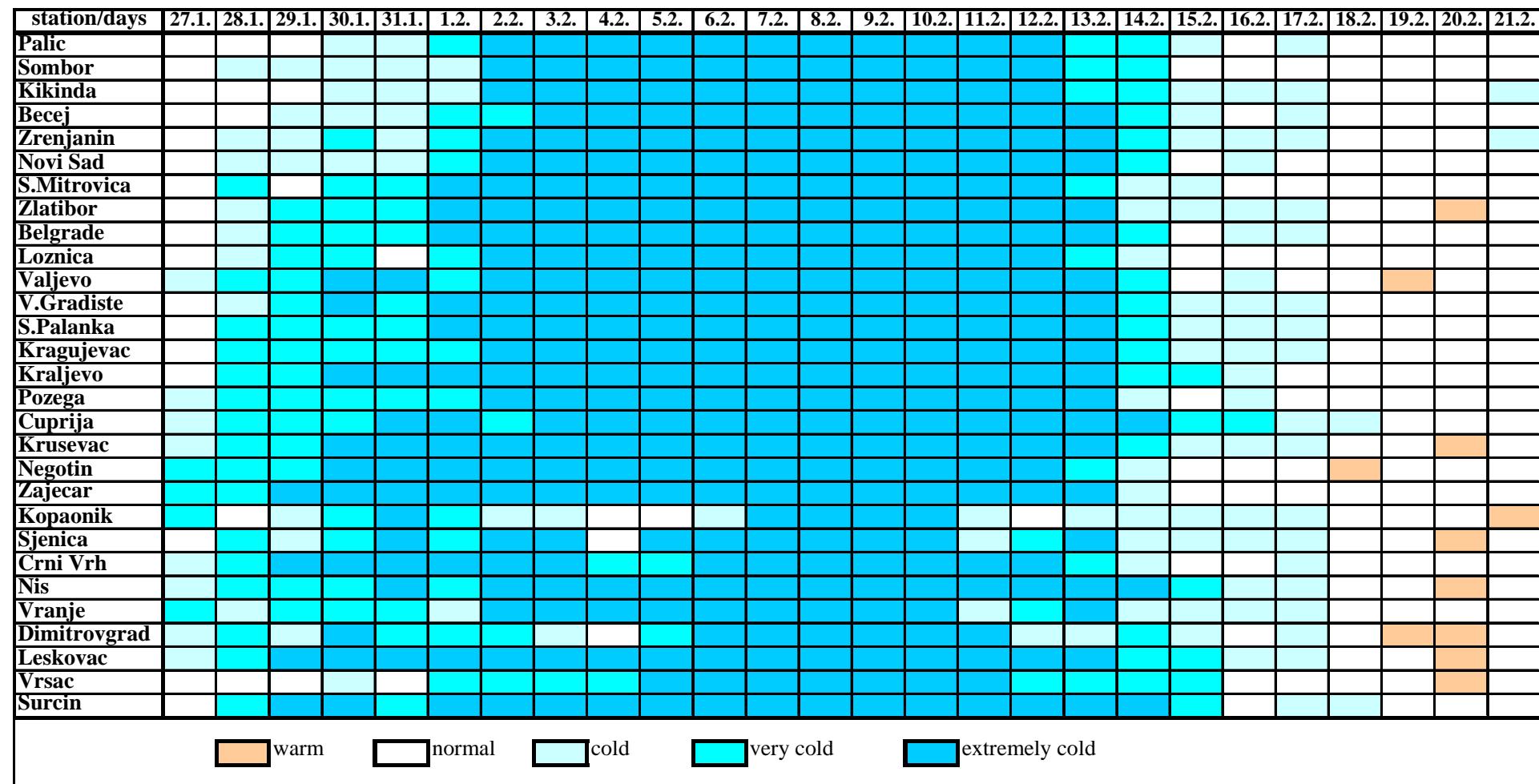
Overview of the number of ice days as well as the overview of the consecutive ice days in addition to the number of consecutive ice days for the historical period at the meteorological stations in Serbia between January 27 and February 21 2012 is provided at the end of the document (*Appendix 4*).

Analysis of the maximum daily air temperature applying the percentile method indicates that the very cold and extremely cold weather prevailed in the given period, which characterizes the cold spell (*Chart 3 and 4*).

Chart 3: Maximum daily air temperature deviation from the mean minimum daily air temperature in Serbia between January 27 and February 21 2012 compared to the 1961-90 base period

station/days	27.1.	28.1.	29.1.	30.1.	31.1.	1.2.	2.2.	3.2.	4.2.	5.2.	6.2.	7.2.	8.2.	9.2.	10.2.	11.2.	12.2.	13.2.	14.2.	15.2.	16.2.	17.2.	18.2.	19.2.	20.2.	21.2.
Palic	0,5	-1,7	-2,6	-5,1	-3,9	-6,2	-9,9	-13,0	-13,4	-12,2	-14,4	-9,9	-11,9	-13,2	-14,0	-12,7	-12,3	-8,5	-8,6	-4,6	-2,6	-3,7	3,1	-2,1	-1,2	-1,3
Sombor	-0,6	-3,2	-3,8	-5,2	-5,3	-6,4	-10,5	-12,8	-12,6	-12,8	-15,8	-11,4	-15,3	-14,5	-16,3	-14,6	-12,7	-9,3	-6,5	-2,1	-2,7	-2,3	2,7	-1,3	-1,4	-3,0
Kikinda	-2,0	-2,4	-3,0	-5,5	-4,5	-5,7	-9,4	-12,3	-13,5	-13,9	-14,3	-11,3	-12,9	-15,0	-17,4	-15,4	-12,7	-10,2	-9,6	-4,5	-3,3	-4,5	1,5	-2,2	-1,9	-4,0
Becej	-0,6	-2,2	-3,2	-6,2	-5,6	-6,6	-8,5	-12,6	-13,7	-11,7	-14,0	-9,8	-11,7	-14,0	-13,0	-13,6	-10,9	-11,0	-9,1	-4,6	-3,0	-4,8	-0,6	-1,8	-2,3	-3,7
Zrenjanin	-2,4	-4,8	-4,6	-8,0	-5,5	-8,0	-9,6	-12,3	-14,3	-13,9	-16,0	-12,4	-12,7	-18,4	-17,3	-15,0	-13,1	-11,5	-10,3	-3,7	-4,6	-4,6	-0,6	-1,8	-3,2	-4,0
Novi Sad	-1,5	-3,8	-3,8	-7,0	-5,4	-8,2	-10,1	-11,8	-14,3	-13,9	-16,0	-12,5	-13,2	-18,9	-16,5	-14,2	-13,6	-11,5	-9,4	-2,5	-3,3	-3,1	-1,2	0,3	-2,1	-3,7
S.Mitrovica	-1,5	-6,1	-3,4	-9,3	-8,5	-10,0	-11,5	-13,7	-14,0	-13,3	-16,7	-12,3	-13,7	-18,3	-15,9	-15,3	-13,7	-10,8	-8,1	-5,0	-4,0	-2,1	-0,1	-2,5	-3,9	-2,1
Belgrade	-2,5	-4,6	-8,6	-10,6	-8,6	-11,1	-12,6	-13,8	-14,1	-14,3	-16,0	-13,2	-13,1	-15,6	-13,7	-15,6	-14,6	-11,2	-7,9	-2,4	-4,4	-4,4	1,8	2,6	-0,5	-4,0
Loznica	-1,8	-5,4	-9,0	-10,5	-11,5	-11,8	-13,4	-13,2	-13,4	-12,8	-16,0	-13,7	-13,8	-16,5	-16,9	-13,3	-14,3	-10,2	-7,0	-0,9	-2,6	0,5	1,3	1,8	-4,7	-2,4
Valjevo	-5,0	-7,2	-9,2	-12,4	-13,2	-11,1	-15,7	-14,6	-14,5	-12,8	-15,7	-15,3	-15,0	-15,6	-16,9	-14,4	-15,1	-11,2	-8,3	-0,7	-4,9	-1,9	-0,2	4,1	-2,7	-2,8
V.Gradiste	6,2	-4,4	-7,0	-9,8	-6,1	-11,1	-10,0	-11,5	-11,5	-12,3	-13,0	-9,1	-12,0	-10,6	-12,6	-13,1	-11,8	-11,0	-7,5	-4,9	-4,8	-3,9	0,9	2,0	0,5	-2,5
S.Palanka	-3,6	-6,1	-7,8	-10,7	-9,4	-10,7	-11,6	-13,6	-13,4	-13,2	-15,1	-11,8	-13,0	-15,9	-12,4	-15,1	-13,2	-11,0	-8,4	-4,7	-6,1	-3,5	1,2	1,4	3,1	-1,0
Kragujevac	-5,3	-8,6	-8,5	-10,3	-13,3	-10,0	-14,2	-14,7	-14,1	-14,3	-15,4	-13,3	-13,7	-15,3	-14,9	-14,8	-15,6	-12,4	-8,8	-4,5	-4,6	-4,1	-0,3	2,6	1,5	-3,2
Kraljevo	-2,6	-8,0	-9,7	-11,9	-13,8	-12,2	-14,7	-13,9	-12,7	-14,2	-15,3	-14,3	-12,2	-15,0	-15,7	-15,1	-15,7	-12,6	-8,4	-8,9	-5,6	-2,6	-0,5	0,2	1,5	-1,2
Pozega	-3,8	-5,6	-8,6	-9,9	-10,6	-11,7	-13,1	-13,0	-11,5	-9,1	-14,6	-13,6	-13,0	-14,0	-15,1	-14,1	-14,5	-11,4	-5,8	-3,5	-5,2	-2,3	-0,4	1,4	2,1	-1,6
Zlatibor	-3,0	-6,0	-9,6	-10,6	-11,4	-13,0	-15,9	-13,9	-13,7	-12,1	-14,8	-15,7	-14,6	-14,5	-16,9	-14,2	-15,4	-11,7	-7,1	-4,2	-6,0	-4,0	-1,0	3,5	4,0	-2,0
Cuprija	-5,1	-8,0	-8,6	-10,3	-10,9	-8,8	-13,1	-14,1	-12,7	-13,1	-14,4	-11,1	-10,2	-14,1	-14,4	-15,0	-14,1	-11,8	-8,2	-7,0	-5,0	-3,0	-0,2	1,2	2,7	-1,5
Krusevac	-5,6	-6,8	-10,2	-12,0	-12,2	-11,4	-15,8	-14,9	-12,8	-12,0	-14,6	-13,6	-11,6	-14,1	-15,8	-16,1	-14,6	-12,8	-8,6	-7,5	-5,5	-4,1	0,0	1,2	4,3	-1,1
Negotin	-7,3	-8,9	-9,4	-12,8	-14,5	-15,2	-14,3	-13,7	-9,3	-9,7	-9,9	-11,6	-14,8	-17,6	-14,9	-15,0	-12,3	-9,4	-4,8	-1,0	-1,1	-2,4	3,8	-1,9	-2,1	1,2
Zajecar	-8,2	-8,4	-11,5	-15,9	-13,8	-17,0	-16,6	-14,8	-11,0	-10,2	-10,4	-13,0	-12,7	-14,7	-16,6	-16,5	-14,0	-11,3	-4,9	-2,9	-0,4	0,2	3,5	1,0	0,4	3,1
Crni Vrh	-7,5	-7,5	-10,9	-12,2	-11,4	-12,1	-15,8	-16,0	-8,8	-8,9	-10,9	-14,3	-18,9	-11,8	-16,3	-18,9	-15,1	-11,3	-7,8	-2,9	-3,4	-5,2	-1,1	3,0	3,1	2,0
Kopaonik	-6,0	-0,6	-3,5	-7,4	-9,4	-6,4	-7,0	-3,5	-0,7	-1,2	-3,2	-13,3	-11,9	-9,9	-11,5	-5,2	-1,5	-4,6	-4,4	-4,7	-5,8	-5,1	-1,2	1,3	2,4	4,3
Sjenica	0,2	-6,3	-5,0	-5,8	-12,3	-8,6	-12,6	-12,4	-0,1	-11,3	-13,5	-15,3	-12,6	-12,1	-12,6	-5,8	-6,3	-10,0	-5,6	-3,1	-5,5	-4,9	-0,8	1,3	4,8	1,5
Nis	-6,0	-6,3	-7,6	-10,1	-12,3	-10,1	-13,5	-12,8	-12,3	-12,4	-15,5	-12,3	-11,1	-13,6	-14,8	-13,1	-12,7	-13,1	-11,1	-9,7	-6,5	-6,1	-1,5	-1,4	3,8	-0,9
Vranje	-5,0	-4,6	-5,7	-8,0	-9,3	-6,0	-9,4	-7,5	-6,9	-10,8	-14,0	-10,5	-8,5	-14,0	-15,7	-5,0	-10,2	-12,8	-7,2	-7,7	-4,6	-7,1	-0,9	0,0	0,5	0,7
Dimitrovgrad	-5,1	-6,3	-5,2	-10,1	-8,0	-9,0	-9,9	-6,0	0,4	-6,7	-14,3	-12,0	-12,4	-11,1	-9,7	-10,9	-5,4	-6,0	-8,3	-5,5	-4,5	-6,3	-0,5	5,2	3,3	-0,4
Leskovac	-5,0	-5,6	-7,7	-12,3	-14,3	-11,8	-12,6	-12,4	-11,2	-10,9	-14,5	-11,9	-9,7	-15,3	-16,1	-10,6	-13,4	-11,4	-10,1	-7,8	-5,3	-5,6	0,3	0,5	4,1	-1,6

Chart 4: The assessment of the degree of cold according to the percentile method of the maximum daily air temperature in Serbia between January 27 and February 21 2012



Minimum air temperature

In the period from the end of January till mid-February, the minimum daily air temperature in Serbia was considerably below the normal compared to the 1961-90 base period. This deviation was even 26 degrees below the normal as for instance in Novi Sad, on February 9 when the observed anomaly amounted to -26.7°C (*Figure 8*).

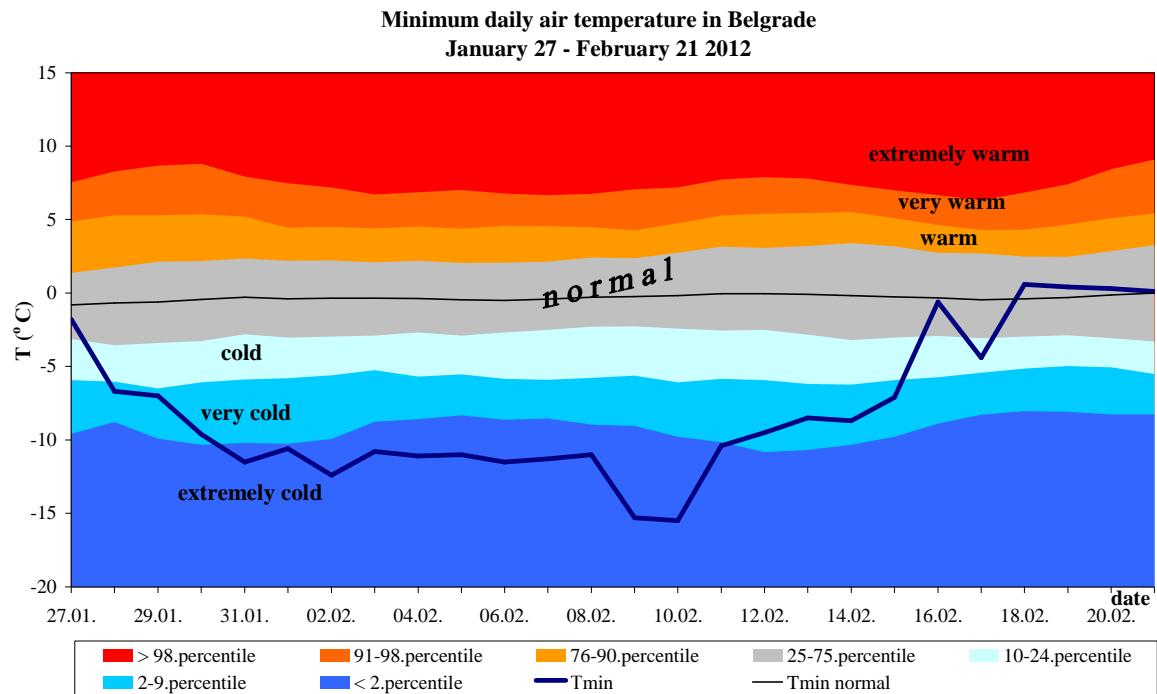


Figure 8: Minimum temperature in Belgrade between January 27 and February 21 2012 (blue line) and climate normals (1961-90 base period)

Diagrams of the observed minimum air temperatures for the main meteorological stations in Serbia are provided at the end of the document (*Appendix 5*).

On February 9, Novi Sad and Banatski Karlovac observed minimum daily air temperatures, measuring -28.7°C and -28.1°C , respectively, thereby breaking the previous records of -28.1°C and -22.6°C registered on February 17 1956 and February 9 2005, respectively. Moreover, in Banatski Karlovac the new annual minimum air temperature record was set, breaking the previous one of -23.7°C observed on January 31 1987 (*Appendix 6*).

Analysis of the maximum daily air temperature applying the percentile method indicates that the very cold and extremely cold weather prevailed in the given period, which characterizes the cold spell (*Chart 6 and 7*).

In the period between January 27 and February 15 2012, Serbia experienced cold spell with the duration ranging from 19 days, recorded in Belgrade and on Crni Vrh, with the mean minimum daily air temperature falling to -10,5°C and -18,0°C, respectively to 6 days as it was registered in Sjenica and on Kopaonik, with the mean minimum daily air temperature measuring -17,9°C and -16,3°C, respectively (*Chart 8 and 9*)

Chart 6: Minimum daily air temperature deviation from the mean minimum daily air temperature in Serbia between January 27 and February 21 2012 compared to the 1961 – 90 base period

station/days	27.1.	28.1.	29.1.	30.1.	31.1.	1.2.	2.2.	3.2.	4.2.	5.2.	6.2.	7.2.	8.2.	9.2.	10.2.	11.2.	12.2.	13.2.	14.2.	15.2.	16.2.	17.2.	18.2.	19.2.	20.2.	21.2.
Palic	-0,4	-1,7	-1,3	-4,5	-9,4	-6,8	-12,6	-9,5	-8,0	-16,0	-17,0	-10,1	-14,7	-22,1	-16,2	-13,5	-6,9	-5,9	-12,5	-10,2	0,9	-7,3	0,2	-0,4	2,1	-2,4
Sombor	0,7	-3,0	-3,0	-6,4	-9,7	-6,9	-10,8	-8,9	-7,9	-15,4	-13,2	-8,3	-18,4	-24,4	-23,6	-18,9	-8,5	-6,4	-7,3	-5,4	2,5	-3,4	1,1	-2,4	2,2	-0,9
Kikinda	0,5	-0,2	-2,1	-7,4	-9,6	-7,8	-11,5	-9,3	-9,1	-10,7	-9,7	-7,9	-16,5	-23,4	-21,7	-19,3	-8,5	-6,8	-10,1	-9,9	0,0	-9,3	0,0	-2,2	2,0	-1,8
Becej	0,4	-1,2	-3,5	-6,6	-9,2	-7,0	-10,7	-8,8	-9,3	-11,2	-9,9	-8,0	-15,1	-24,9	-25,3	-19,0	-8,7	-7,7	-12,2	-11,2	0,7	-11,1	1,6	0,8	2,6	-1,0
Zrenjanin	1,0	-2,7	-5,3	-9,6	-10,2	-7,8	-9,7	-15,4	-9,3	-11,2	-10,2	-9,4	-18,4	-25,5	-23,7	-20,0	-9,2	-7,6	-9,4	-9,3	0,4	-9,7	1,4	0,4	1,7	0,6
Novi Sad	0,6	-2,1	-4,2	-7,4	-9,6	-6,8	-8,7	-8,7	-9,0	-9,5	-9,7	-8,4	-17,2	-26,7	-23,8	-16,6	-9,7	-7,6	-9,6	-8,3	-1,2	-7,4	1,6	-2,6	1,7	0,6
S.Mitrovica	-0,4	-3,7	-6,7	-8,6	-10,2	-8,7	-9,3	-8,6	-9,0	-9,1	-9,2	-8,8	-17,3	-24,4	-21,4	-12,1	-7,0	-12,7	-18,1	-18,0	-1,3	-2,8	3,4	-2,1	1,7	2,1
Belgrade	-0,6	-5,9	-6,9	-9,2	-11,1	-10,2	-12,3	-10,2	-10,9	-10,6	-10,8	-10,6	-10,3	-15,5	-15,7	-10,1	-9,2	-8,4	-8,9	-7,1	0,0	-3,6	1,0	0,9	0,0	0,3
Loznica	-3,4	-5,0	-5,0	-13,4	-14,3	-13,3	-10,2	-9,6	-10,0	-8,8	-9,6	-9,8	-16,2	-19,4	-19,4	-11,5	-8,3	-7,0	-11,0	-11,7	1,6	-1,1	2,3	-2,8	2,8	1,9
Valjevo	-1,8	-7,3	-5,6	-14,4	-17,1	-17,2	-10,2	-8,0	-9,1	-7,5	-8,6	-9,0	-15,5	-21,3	-15,8	-10,2	-7,3	-6,3	-10,7	-14,4	0,6	-1,8	3,2	-4,7	1,6	1,7
V.Gradiste	2,2	-3,6	-5,1	-7,6	-11,0	-8,1	-9,0	-6,9	-8,5	-8,7	-9,7	-7,9	-11,5	-21,7	-12,6	-8,4	-6,7	-6,4	-14,7	-18,9	-2,0	-6,3	-0,9	-6,4	2,6	1,4
S.Palanka	-0,4	-3,8	-7,4	-16,4	-19,1	-17,9	-10,2	-8,1	-9,4	-8,9	-9,4	-9,0	-12,2	-26,6	-19,8	-9,0	-8,0	-8,1	-14,7	-11,7	-2,1	-2,7	0,6	-6,8	1,5	1,9
Kragujevac	-1,8	-4,3	-11,2	-18,6	-21,2	-20,8	-11,1	-8,7	-9,7	-8,6	-9,9	-9,7	-16,2	-22,7	-15,8	-9,8	-8,7	-9,1	-14,0	-14,6	-0,6	-0,9	1,4	-1,4	2,8	2,5
Kraljevo	0,1	-3,8	-6,7	-15,2	-17,9	-15,6	-10,8	-9,5	-8,6	-8,3	-9,4	-9,9	-13,1	-19,9	-13,2	-10,7	-9,1	-7,5	-13,6	-19,0	-3,9	-0,4	2,3	-2,9	1,4	2,0
Pozega	-6,0	-5,5	-2,6	-11,7	-17,1	-19,1	-9,1	-8,0	-7,6	-8,2	-8,1	-8,4	-15,8	-23,2	-13,8	-9,2	-6,8	-6,5	-14,9	-20,8	-2,9	-0,7	3,4	-3,7	2,9	3,1
Zlatibor	-3,5	-3,7	-6,9	-10,6	-14,3	-11,8	-13,5	-12,0	-11,8	-11,0	-11,6	-13,3	-12,5	-15,9	-14,8	-13,4	-11,3	-10,3	-10,3	-9,6	-1,8	-2,6	2,0	0,3	2,2	1,5
Cuprija	0,5	-4,5	-7,3	-16,9	-20,7	-10,7	-10,9	-9,4	-8,2	-8,5	-9,7	-9,0	-9,0	-21,7	-13,6	-9,8	-8,1	-10,6	-13,2	-13,7	-2,2	-1,9	0,3	-5,7	3,8	0,3
Krusevac	0,9	-4,2	-7,9	-17,8	-20,0	-19,5	-10,6	-8,7	-7,6	-8,3	-9,5	-8,6	-10,6	-22,2	-12,0	-10,1	-7,9	-9,1	-13,6	-17,3	-0,9	-0,1	0,7	-5,5	1,2	2,0
Negotin	-2,0	-6,5	-11,0	-16,0	-17,1	-15,3	-14,3	-9,4	-7,9	-6,2	-5,4	-7,5	-16,5	-25,4	-18,1	-13,1	-7,5	-5,8	-3,9	-8,7	-3,9	-1,4	-1,0	-8,0	-2,5	-1,5
Zajecar	-1,0	-4,9	-12,9	-13,9	-16,7	-17,5	-12,5	-9,8	-6,8	-5,4	-6,4	-6,9	-10,7	-22,8	-13,7	-10,6	-7,3	-6,4	-9,8	-14,4	1,3	-1,8	2,1	-6,5	-0,4	-0,9
Crni Vrh	-0,7	-9,0	-9,8	-12,4	-11,1	-11,8	-13,4	-14,3	-10,2	-10,4	-10,6	-11,1	-15,1	-15,0	-15,7	-13,5	-12,6	-9,4	-6,6	-5,3	0,2	-3,3	-0,3	1,5	2,4	2,2
Kopaonik	-5,1	-5,9	-3,7	-6,5	-8,3	-5,1	-7,1	-0,2	3,2	2,6	-4,3	-11,2	-9,8	-10,3	-9,9	-7,0	0,6	-3,8	-5,8	-6,0	-2,1	-3,2	2,6	1,4	4,6	4,6
Sjenica	0,6	1,3	-0,6	-9,4	-20,0	-19,8	-8,1	-6,5	-5,8	-5,9	-7,5	-7,9	-9,3	-18,4	-12,5	-9,2	-5,4	-7,1	-9,2	-14,5	-0,3	-0,1	3,5	-5,4	6,5	5,4
Nis	0,1	-2,4	-7,9	-13,8	-14,9	-15,2	-9,7	-10,1	-8,3	-8,8	-10,0	-8,9	-8,5	-16,2	-11,8	-10,1	-7,8	-9,5	-12,6	-12,7	-2,6	-2,5	-0,8	-5,9	0,5	0,8
Vranje	-1,2	-1,8	-4,5	-0,2	-14,8	-15,0	-9,1	-9,7	-6,0	-8,1	-8,7	-7,4	-7,5	-12,1	-10,9	-9,6	-6,9	-8,9	-10,1	-16,9	-6,1	-2,3	-1,4	-6,1	1,8	1,6
Dimitrovgrad	-5,7	-4,8	-5,6	-12,5	-17,4	-16,5	-9,0	-9,1	0,3	-7,9	-8,6	-5,8	-9,2	-16,8	-11,3	-6,3	-2,1	-8,8	-14,8	-16,7	-3,7	-1,5	-1,5	-4,8	-0,7	-1,9
Leskovac	-0,9	-1,1	-5,9	-13,3	-19,2	-18,6	-8,1	-8,8	-8,1	-7,0	-7,7	-7,0	-8,1	-15,2	-11,7	-9,5	-7,6	-8,2	-14,4	-20,6	-2,6	-1,1	0,4	-7,6	1,0	1,9

the greatest minimum daily air temperature anomaly from the average (compared to the 1961-90 base period)

Chart 7: The assessment of the degree of cold according to the percentile method of the minimum daily air temperature in Serbia between January 27 and February 21 2012

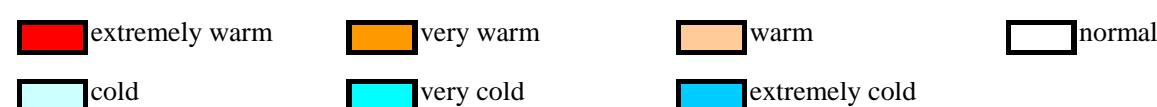
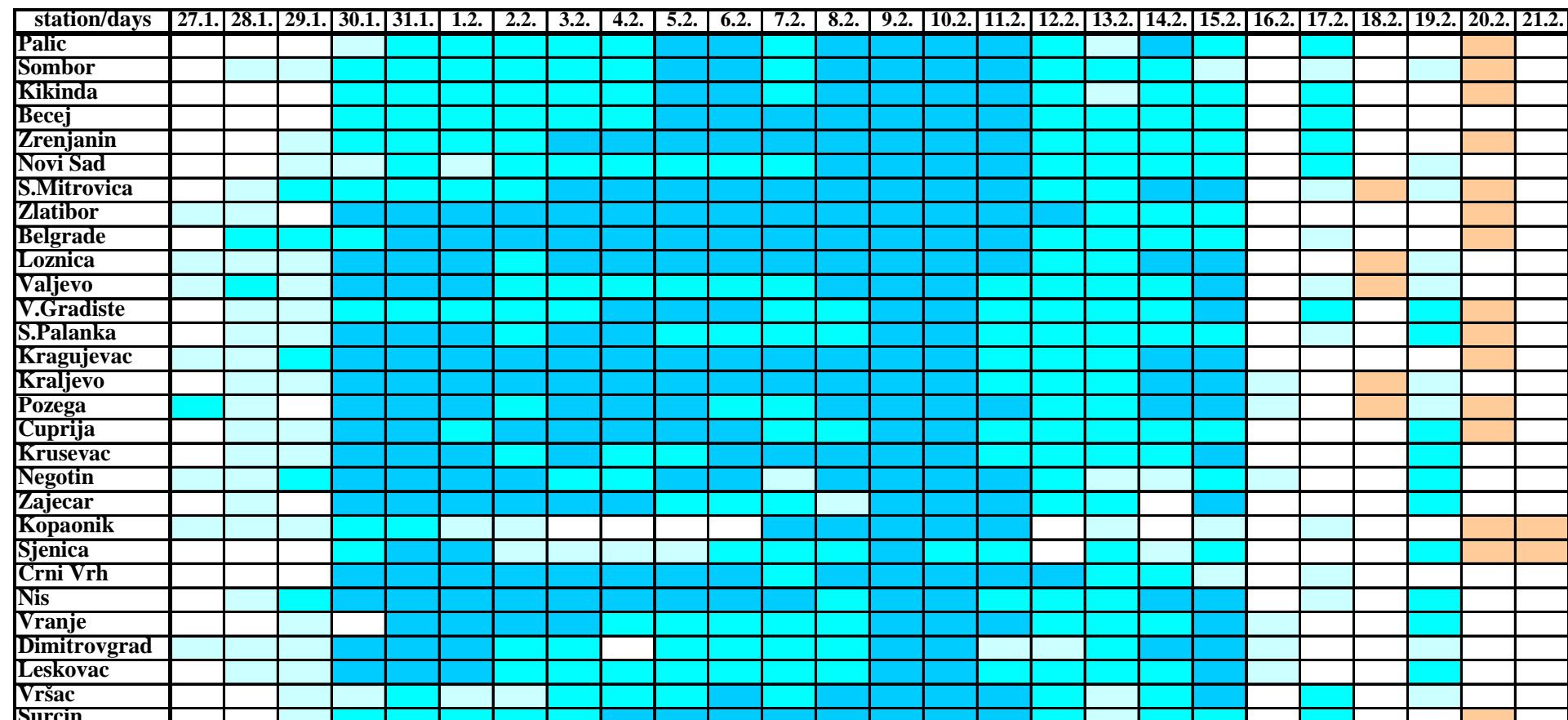


Chart 8: Cold spell (blue color) in Serbia between January 27 and February 21 2012

Chart 9: Duration of the cold spell in Serbia between January 27 and February 21 2012

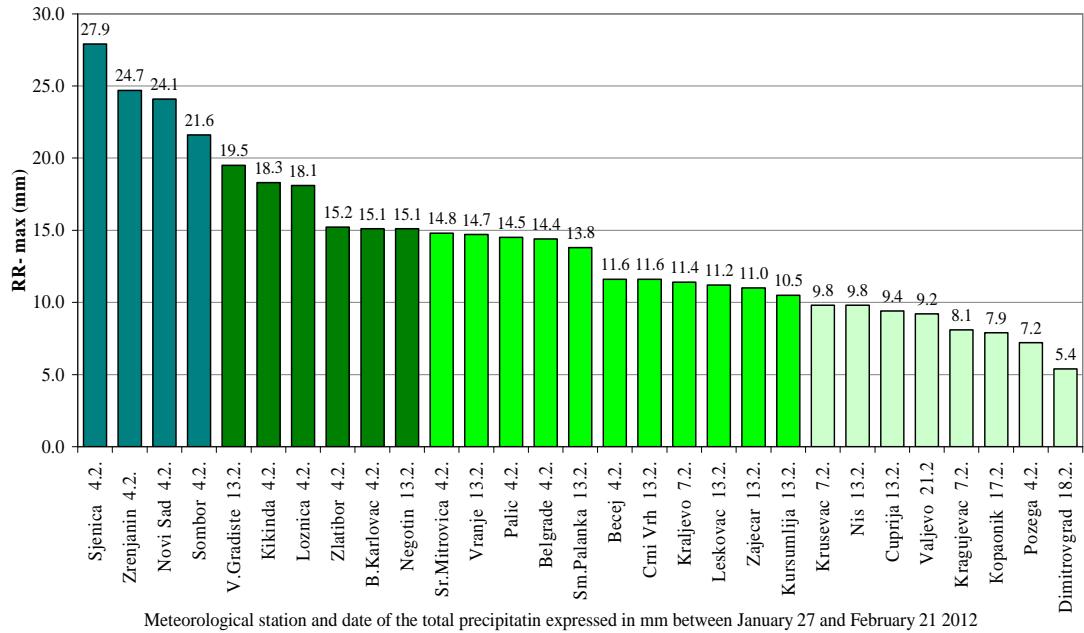
Station	Number of days	from	to
Palic	13	31.1.	12.2.
Sombor	16	30.1.	14.2.
Kikinda	14	30.1.	12.2.
Becej	17	30.1.	15.2.
Zrenjanin	17	30.1.	15.2.
Novi Sad	14	2.2.	15.2.
S.Mitrovica	18	29.1.	15.2.
Zlatibor	17	30.1.	15.2.
Belgrade	19	28.1.	15.2.
Loznica	17	30.1.	15.2.
Valjevo	17	30.1.	15.2.
V.Gradiste	17	30.1.	15.2.
S.Palanka	17	30.1.	15.2.
Kragujevac	18	29.1.	15.2.
Kraljevo	17	30.1.	15.2.
Pozega	17	30.1.	15.2.
Cuprija	17	30.1.	15.2.
Krusevac	17	30.1.	15.2.
Negotin	9	29.1.	6.2.
	5	8.2.	12.2.
Zajecar	10	29.1.	7.2.
	5	9.2.	13.2.
Kopaonik	5	7.2.	11.2.
Sjenica	6	6.2.	11.2.
Crni Vrh	18	28.1.	14.2.
Nis	18	29.1.	15.2.
Vranje	16	31.1.	15.2.
Dimitrovgrad	5	30.1.	3.2.
	7	5.2.	11.2.
Leskovac	17	30.1.	15.2.
Vrsac	10	3.2.	12.2.
Surcin	14	30.1.	12.2.

Precipitation

Precipitation

In the period between January 27 and February 21, the highest precipitation total in Serbia was measured in Sjenica and it amounted to 27.9 mm. Precipitation sums above 20 mm, that same day, were observed at several places, Becej, Zrenjanin, Novi Sad and Sombor. At the other meteorological places the precipitation sums ranged from 5 till 20 mm.

Total precipitation (mm) in Serbia between January 27 and February 21 2012



Graph 3: Precipitation totals expressed in mm in Serbia between January 27 and February 21 2012

Snow depth

Snow cover formed primarily in the mountainous areas during December 2011, in southern parts on January 7, in the remainder of the country on January 25 apart from on the far north where the formation occurred on February 3. (*Chart 10, Figures 9 and 10*).

In southern parts of the country snowfall was accompanied by strong wind causing the snowdrift formation. The previous snow depth record was broken at the following places: On Kukavica, measuring 162 cm on January 27, in Sjenica, measuring 107 cm on February 13, as well as on Zlatibor Mountain, amounting to 100 cm (*Graph 2 and 3, Chart 10*).

Overview of the historical data regarding maximum snow depth (cm) at several meteorological stations when snow depth exceeded the values recorded between January 27 and February 21 2012 is provided in the Appendix of the climatolgical bulletin.

Chart 10: Real-time and historical data about maximum snow depth at several meteorological stations in Serbia

Station	Altitude (m)	Real time		Historical data		
		max height (cm)	date	previous record (cm)	work period of MS	date of previous record
Kukavica	1442	162	27.1.2012.	130	1990-2011	25.3.2009.
Kopaonik	1710	144	18.2.2012.	198	1981-2011	15.2.1984.
Crni Vrh	1037	149	13.2.2012.	167	1966-2011	25.1.2000.
Vlasina	1190	117	16.2.2012.	130	1965-2011	1.3.1973.
Zlatibor	1028	100	13.2.2012.	92	1951-2011	12.2.1984.
Sjenica	1038	107	13.2.2012.	76	1947-2011	27.1.- 3.2.1947.
Kraljevo	215	63	08.2.2012.	82	1926-2011	11.2.1984.
Krusevac	166	56	07.2.2012.	70	1930-2011	5.12.1980.
Kragujevac	185	51	07.2.2012.	71	1925-2011	24.2.1954.
Becej	75	55	13,14,15.2.2012.	57	1949-2011	6.2.1969.
Dimitrovgrad	450	48	27.1.2012.	93	1945-2011	23.2.1954.
Zrenjanin	80	42	14.2.2012.	85	1946-2011	13.2.1956.
Belgrade	132	52	13,14.2.2012.	80	1925-2011	3.2.1962.
Zajecar	144	59	14.2.2012.	108	1925-2011	22.2.1954.
Vranje	432	37	14,17.2.2012.	55	1926-2011	11.1.1985.

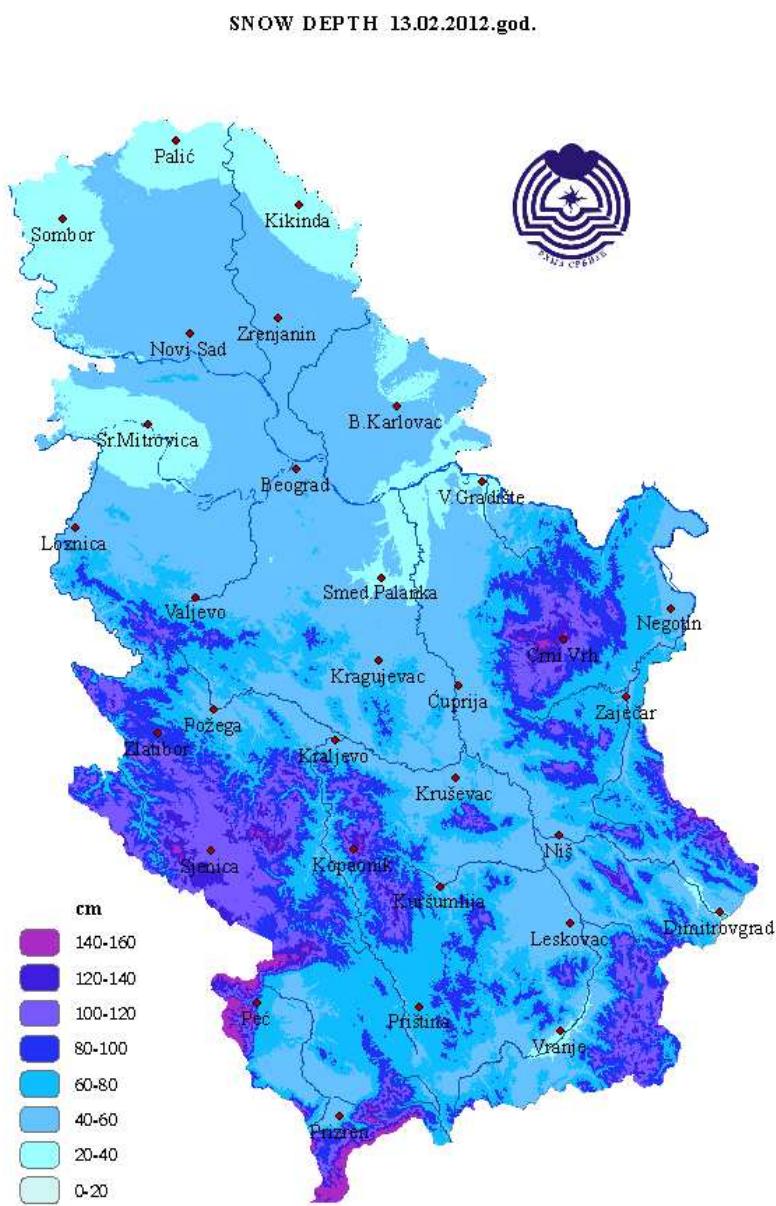


Figure 9: Spatial distribution of snow depth across Serbia on February 13 2012

SNOW DEPTH 17.02.2012.god.

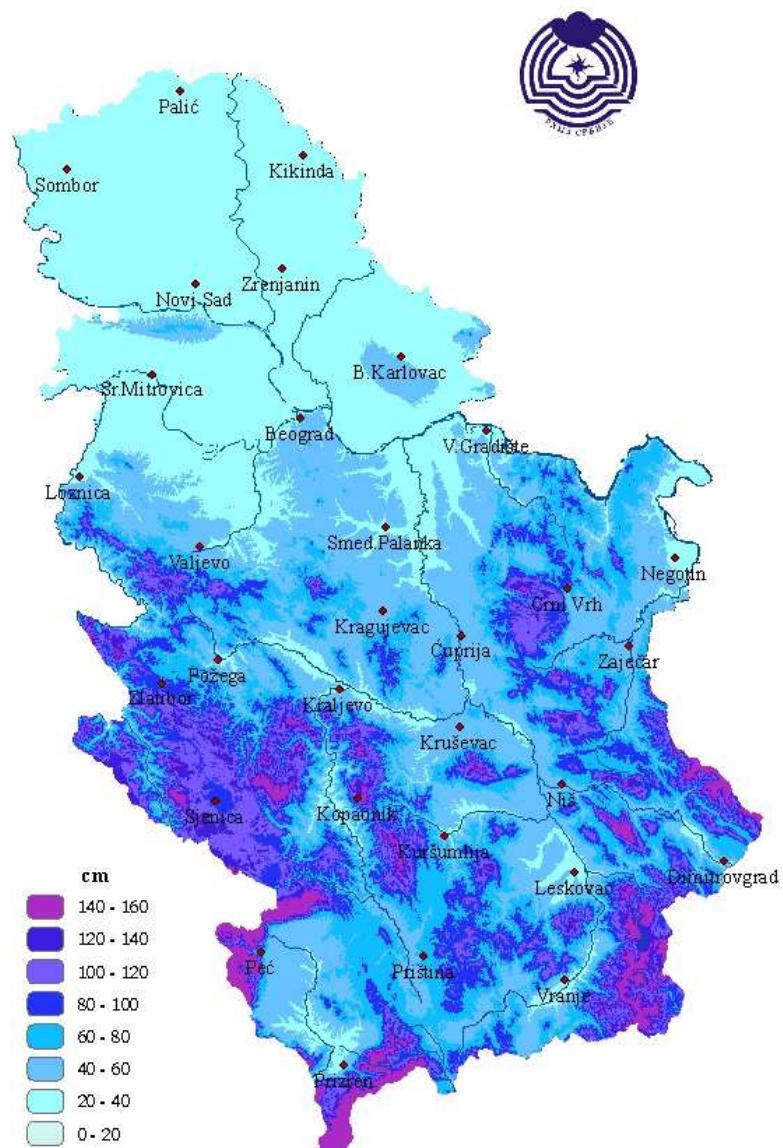
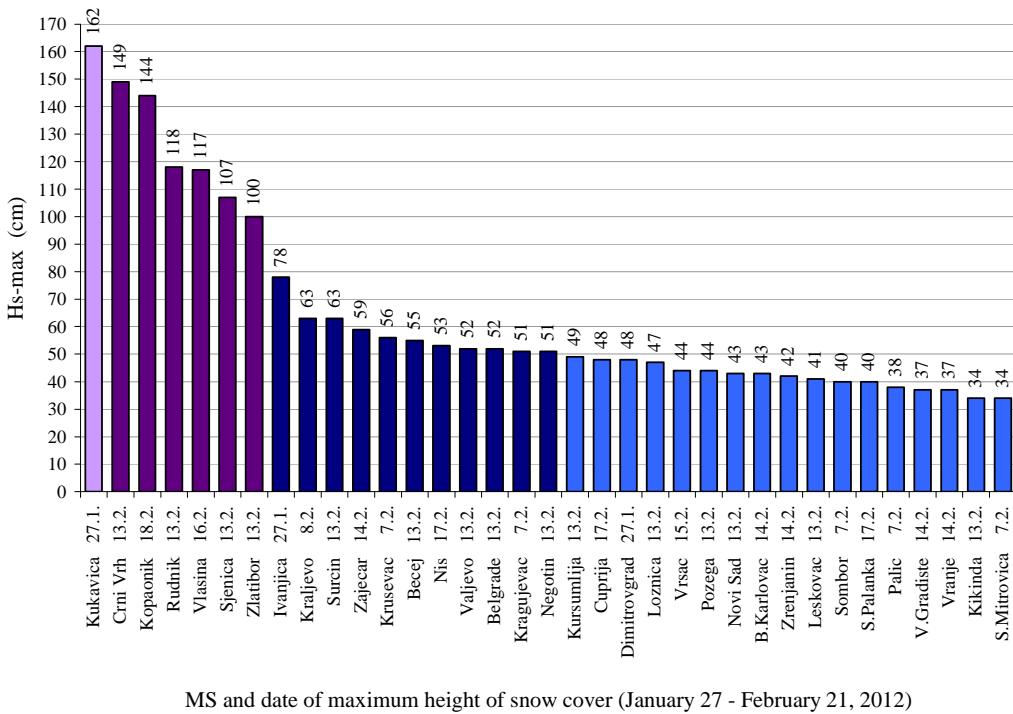


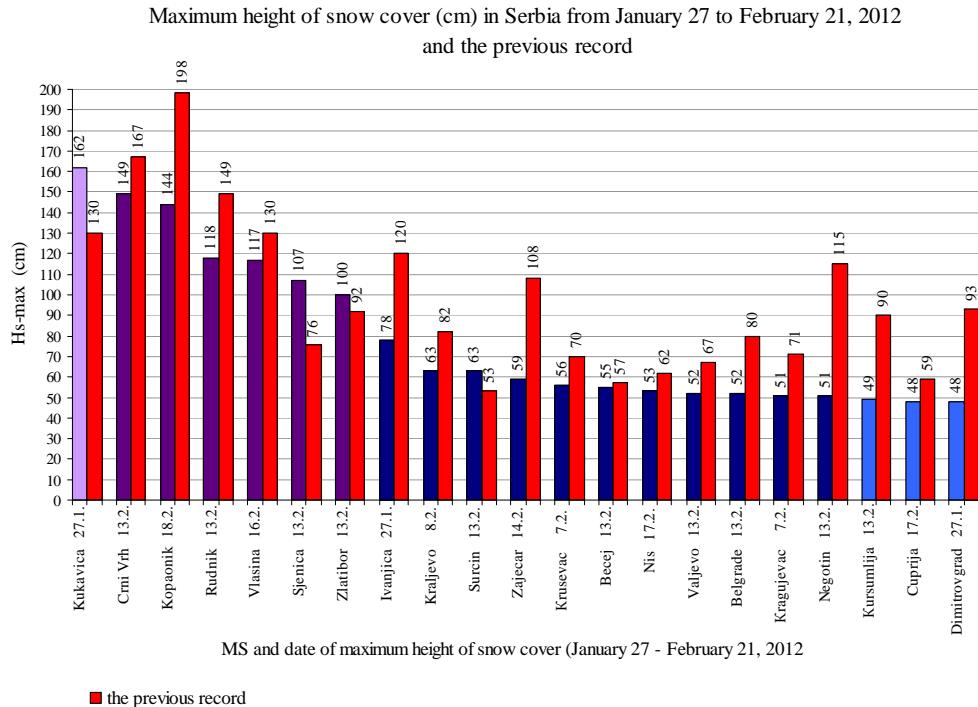
Figure 10: Spatial distribution of snow depth across Serbia on February 17 2012

Maximum snow depth observed in Belgrade during February this year didn't exceed the previous historical maximum.

**Maximum height of snow cover (cm) in Serbia
from January 27 to February 21, 2012**



Graph 1: Snow depth maximum in Serbia between January 27 and February 21 2012



Graph 2: Snow depth maximum in Serbia between January 27 and February 21 2012 and snow depth record

Chart 11: Snow depth and maximums (green color) between January 27 and February 21 2012 at the main meteorological stations in Serbia

station/days	27.1.	28.1.	29.1.	30.1.	31.1.	1.2.	2.2.	3.2.	4.2.	5.2.	6.2.	7.2.	8.2.	9.2.	10.2.	11.2.	12.2.	13.2.	14.2.	15.2.	16.2.	17.2.	18.2.	19.2.	20.2.	21.2.
Palic								20	31	31	38	35	33	31	30	31	36	36	30	30	28	29	25	18	17	
Sombor								29	38	35	40	38	34	32	31	34	38	37	34	30	28	25	20	18	17	
Kikinda	1					1	29	33	30	32	30	28	27	26	28	34	32	30	25	25	27	23	21	19		
Becej							40	40	41	48	48	48	48	48	52	55	55	51	38	38	30	24	20			
Zrenjanin							5	31	34	38	40	39	30	30	30	37	41	42	37	36	32	32	28	24	21	
Novi Sad							8	30	36	36	39	35	32	31	31	35	43	37	35	32	31	30	24	21	20	
S.Mitrovica	1						6	24	28	30	34	34	34	31	27	28	34	34	30	28	26	23	20	18	16	
Zlatibor	75	70	70	68	65	62	64	65	81	79	84	90	97	92	88	92	97	100	97	92	95	98	94	92	84	85
B.Karlovac	4						7	24	26	36	36	30	36	36	36	38	33	41	43	42	35	37	33	29	21	16
Belgrade	17	11	10	9	8	7	7	10	34	34	38	40	35	35	32	36	37	52	52	49	49	43	39	36	31	26
Loznica	11	9	9	9	8	6	6	18	32	34	34	40	45	43	40	42	45	47	41	39	36	38	28	23	20	18
Valjevo	26	23	21	20	17	17	15	22	28	29	32	40	44	38	35	42	47	52	47	41	39	42	34	29	23	21
V.Gradiste								14	15	24	25	19	15	15	15	15	15	33	37	35	36	33	34	29	24	20
S.Palanka	15	10	8	8	8	8	8	11	19	18	25	28	25	23	22	26	28	37	37	35	38	40	34	30	23	22
Kragujevac	29	25	24	20	20	20	20	24	31	33	38	51	49	44	38	41	43	48	49	44	45	48	35	30	24	18
Kraljevo	40	30	26	24	23	21	25	30	32	34	36	50	63	48	45	47	46	50	48	45	44	41	36	29	25	20
Pozega	41	27	26	22	22	21	21	24	30	30	31	37	40	39	39	39	41	44	39	37	38	38	34	30	27	27
Cuprija	26	22	18	17	17	16	17	20	27	30	34	39	39	39	34	36	38	41	44	41	45	48	45	41	31	22
Krusevac	34	30	30	28	26	25	30	35	35	37	41	56	56	54	45	40	43	53	53	48	50	46	43	33	30	26
Negotin	9	8	8	8	7	7	7	15	23	20	23	27	32	28	25	29	38	51	48	46	40	35	33	27	27	
Zajecar	20	18	15	17	16	15	16	24	21	30	38	38	39	35	34	43	46	57	59	54	49	45	43	37	32	28
Kopaonik	130	127	122	118	117	115	118	118	120	125	130	132	133	130	129	130	133	135	137	133	135	140	144	142	135	130
Sjenica	75	71	67	64	63	60	60	63	84	80	80	96	97	95	91	98	105	107	104	98	96	92	93	87	86	80
Crni Vrh	86	80	80	76	76	68	69	73	75	81	87	105	125	105	95	97	126	149	122	103	105	110	107	107	96	78
Nis	19	15	14	13	11	11	12	22	24	26	34	37	33	28	26	28	32	44	46	39	51	53	48	40	37	28
Vranje	13	13	12	12	11	9	12	14	16	14	18	15	14	14	17	17	24	33	37	30	34	37	36	31	28	24
Dimitrovgrad	48	42	40	30	25	25	28	37	37	25	29	28	31	28	31	31	34	36	37	36	37	36	42	37	33	28
Leskovac	21	18	17	15	13	13	14	23	24	25	30	32	32	25	25	26	30	41	39	39	38	39	39	34	33	28
Kursumlja	18	15	12	11	10	10	22	32	28	29	33	35	37	31	30	36	39	49	49	43	40	36	34	29	23	18
Vrsac							2	23	27	32	33	30	27	24	22	28	41	41	44	42	40	40	33	22	20	
Surcin	10	8	6	5	4	3	2	7	25	27	33	41	42	42	39	44	50	63	63	61	56	57	57	45	32	27

Conclusion

In the period between January 27 and February 21 weather conditions in Serbia had the following features:

- **large number of consecutive ice days**
- **low minimum and maximum temperatures**
- **the occurrence of cold spell**
- **heavy snow across entire country**

A large number of consecutive ice days is recorded in the period between January 27 till February 19 2012, that is: 24 on Kopaonik, 23 on Crni Vrh, 22 on Zlatibor, 20 in Krusevac and Nis, 19 in Kraljevo, Cuprija, Leskovac and Kursumlja, 17 in Belgrade. The least number of days, total of 16, was registered in Novi Sad and Becej.

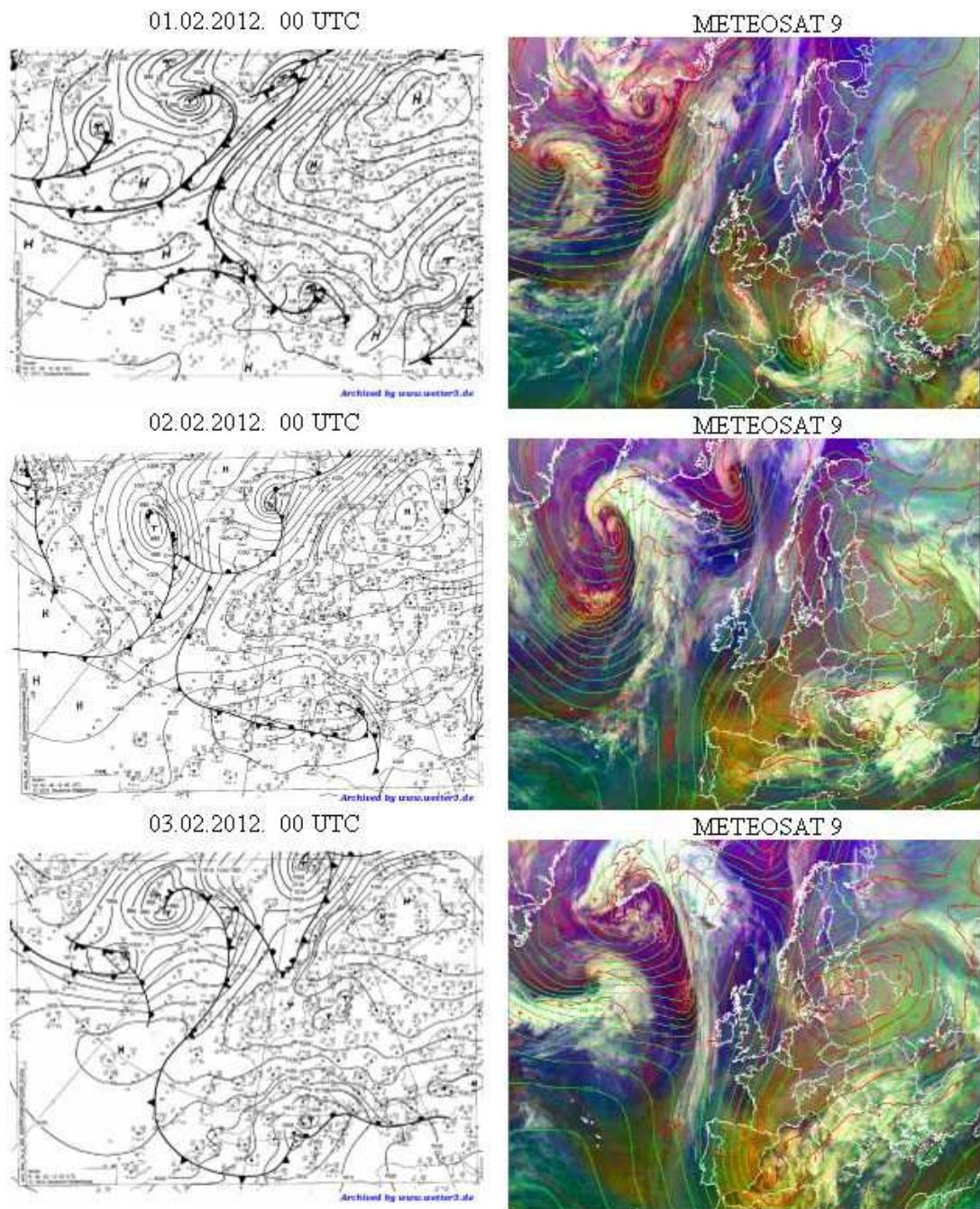
The lowest air temperature, measuring -28.9°C was observed in Sjenica on January 31. On February 9, Novi Sad and Banatski Karlovac observed record-breaking minimum temperatures, measuring -28.7°C and -28.1°C, respectively. The lowest temperature in Belgrade fell to -15.5°C on February 10 whereas in the city vicinity, Surcin it plummeted to -24°C on February 9.

In the period between January 28 and February 15 entire Serbia was hit by cold spell. Minimum air temperature was substantially below normal (very cold and extremely cold) for at least 5 consecutive days. At several meteorological stations cold spell was registered before and after this period.

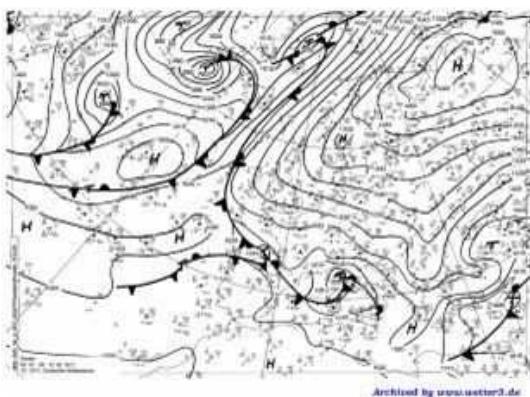
The duration of cold spell varied with location from 19 days recorded in Belgrade, 18 days in Sremska Mitrovica, Kragujevac, Nis and Crni Vrh while the easternmost parts of the country experienced it on several occasions, lasting from 5 till 10 days.

On February 13 the new snow depth record, measuring 162 cm, was registered on Kukavica Mountain near Leskovac, 107 cm in Sjenica and 100 cm on Zlatibor Mountain. Snow depth was in a range from 149 cm on Kopaonik to 117 cm on Vlasina, whereas in the low-lying areas it ranged from 40 to 63 cm.

Appendix 1



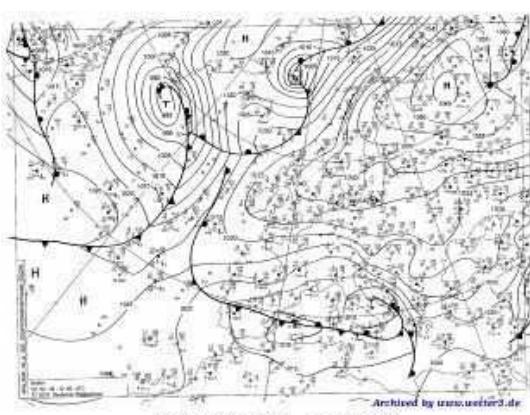
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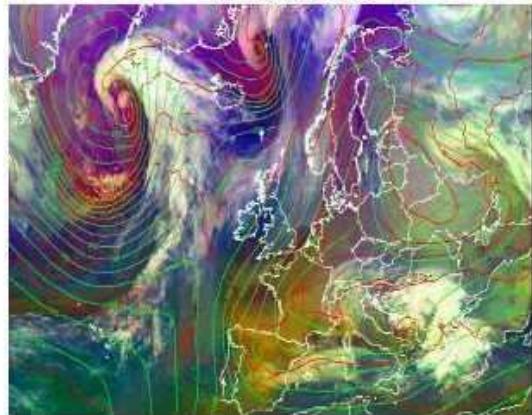
METEOSAT 9



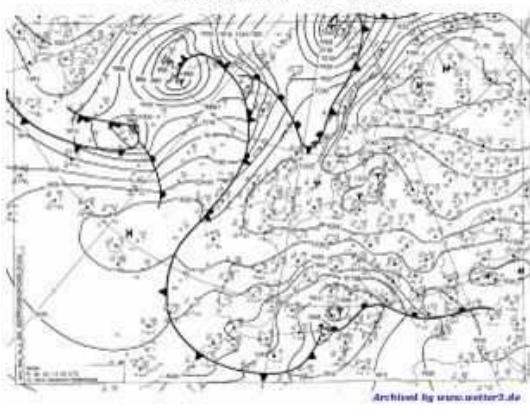
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METEOSAT 9



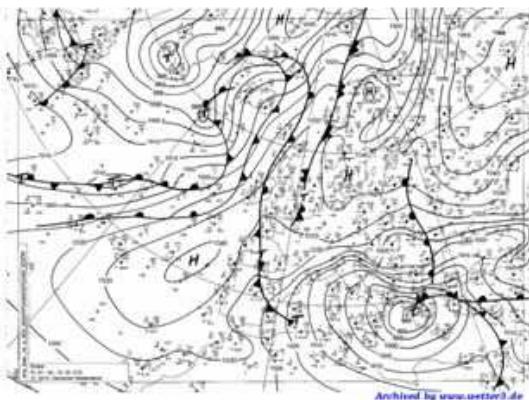
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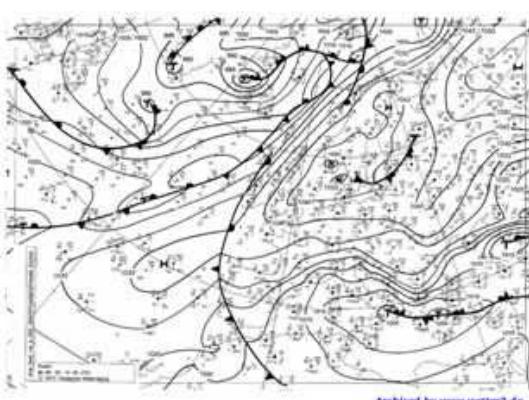
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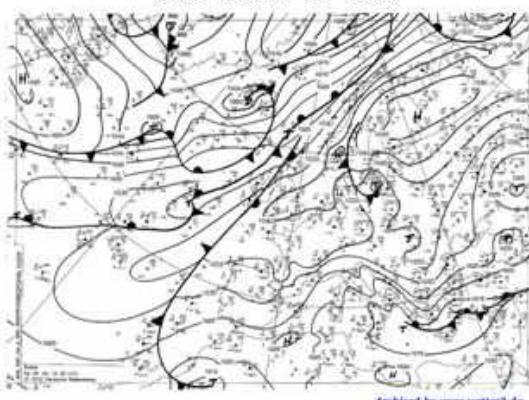
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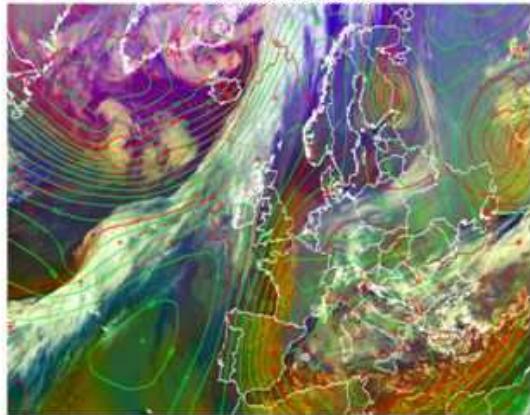
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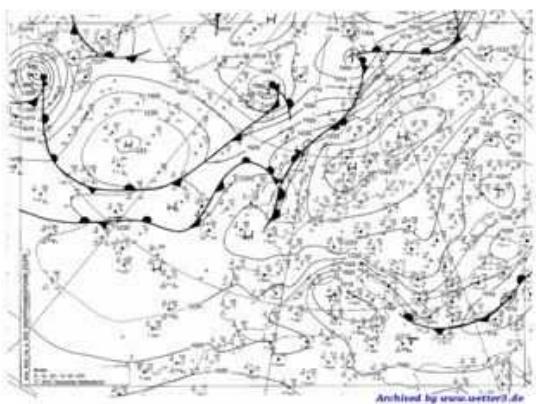
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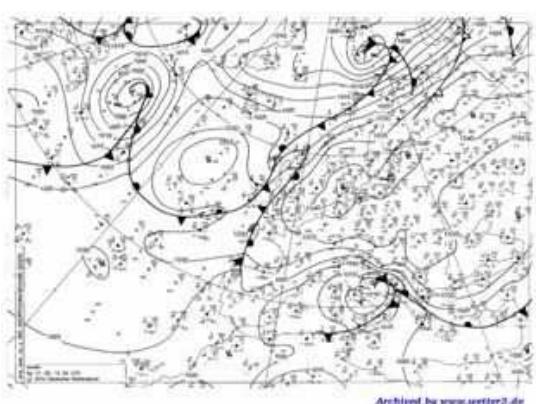
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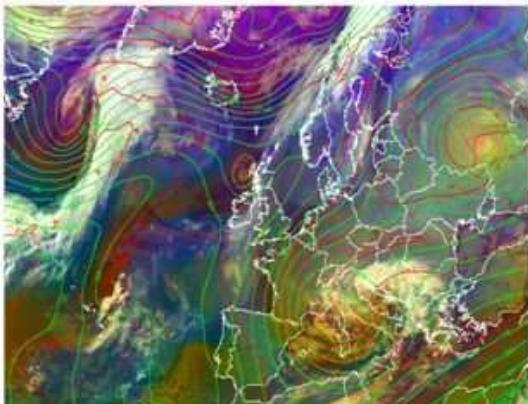
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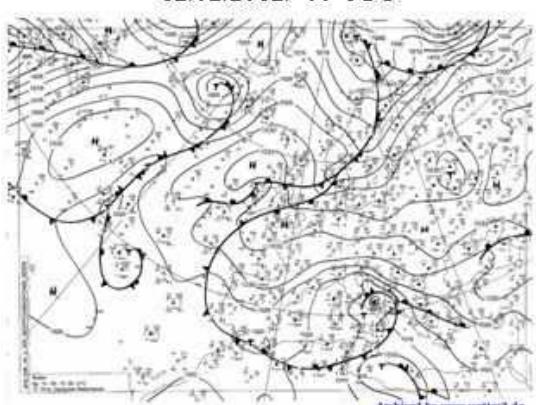
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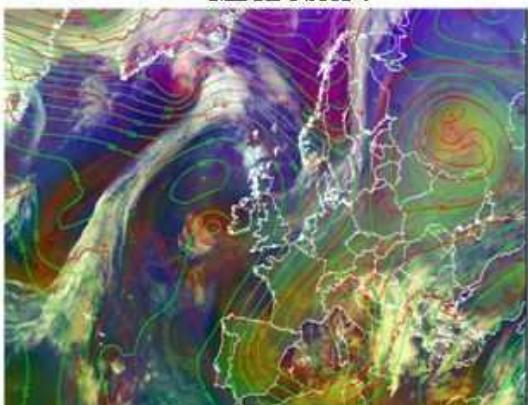
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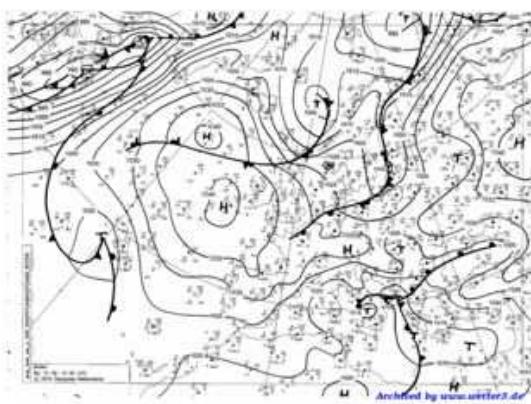
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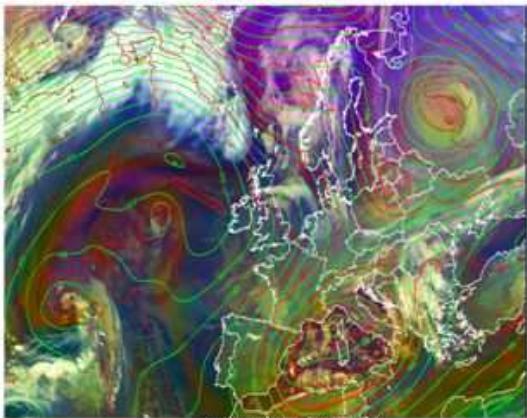
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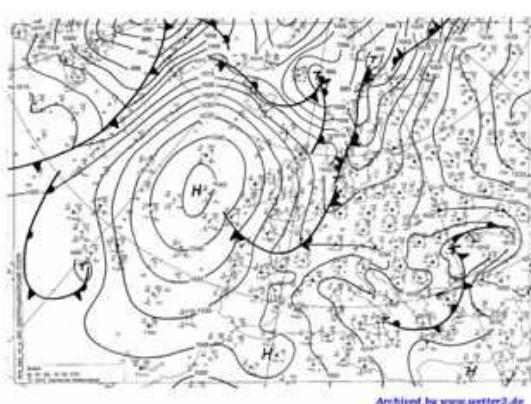
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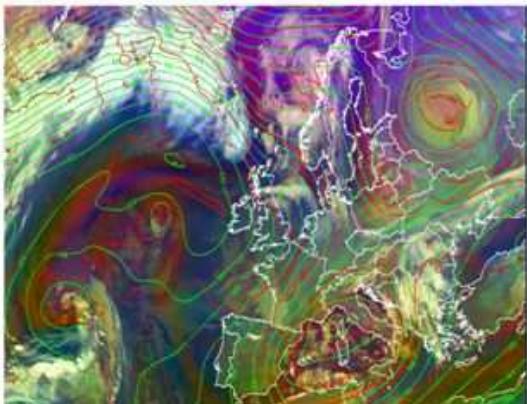
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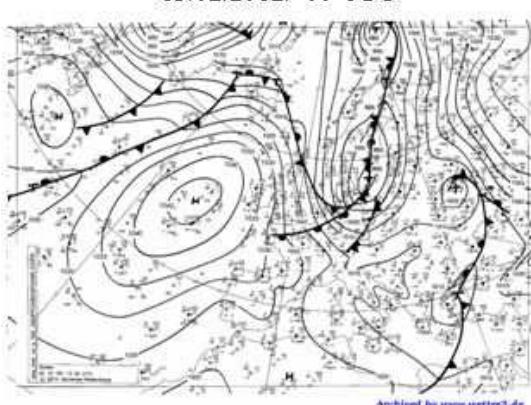
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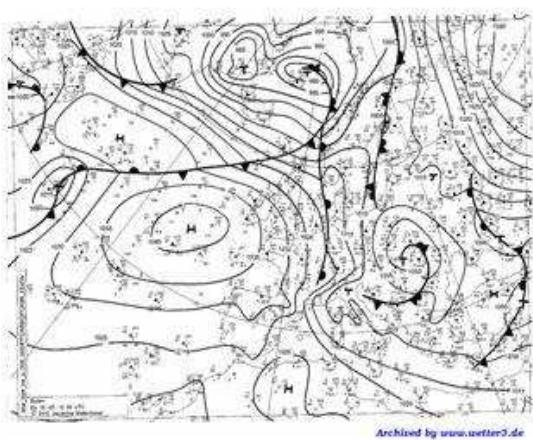
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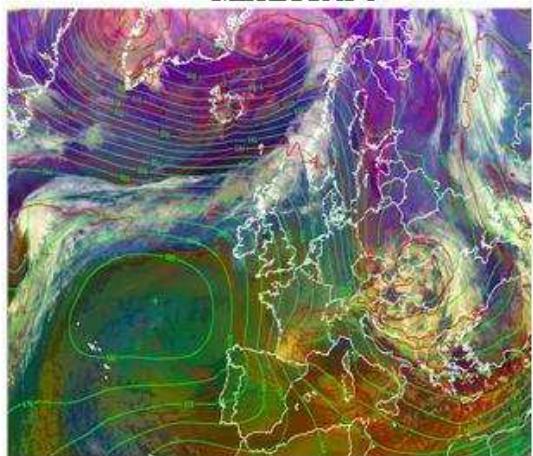
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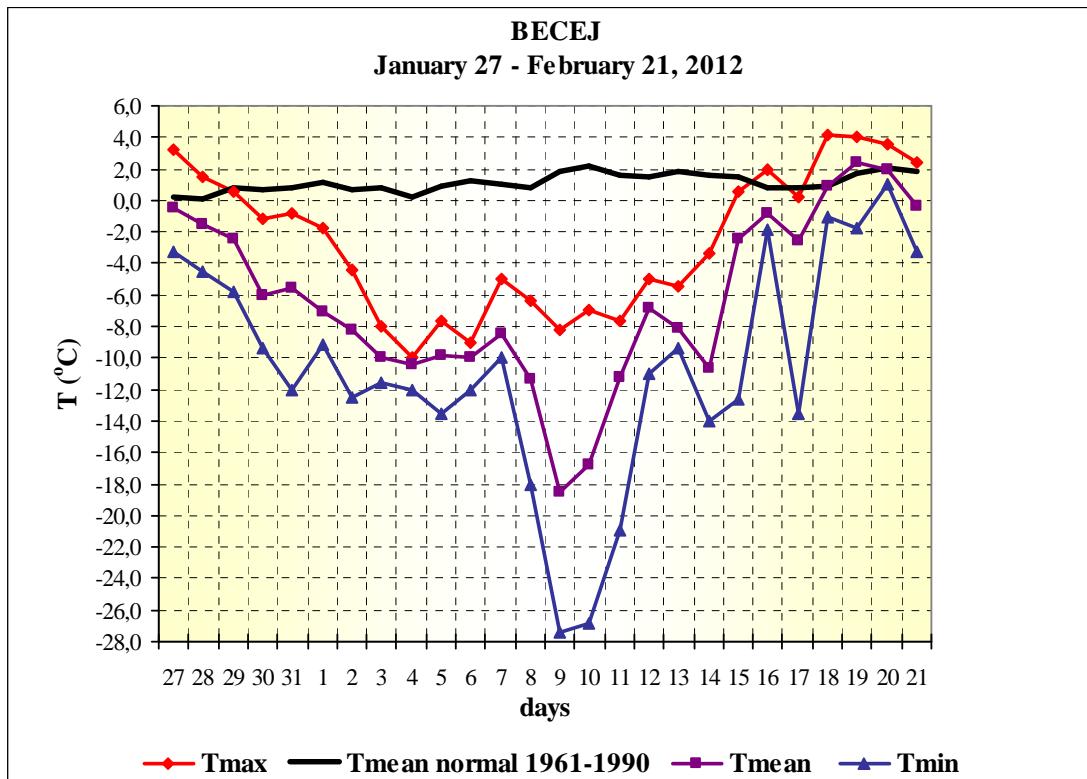
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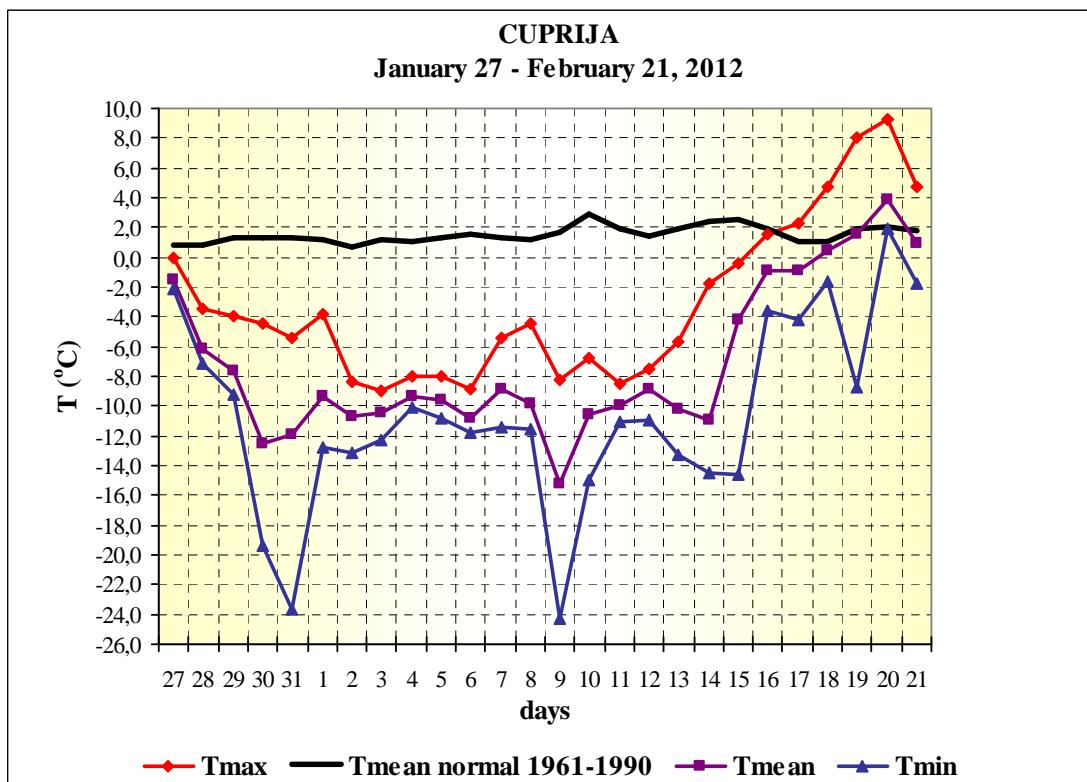
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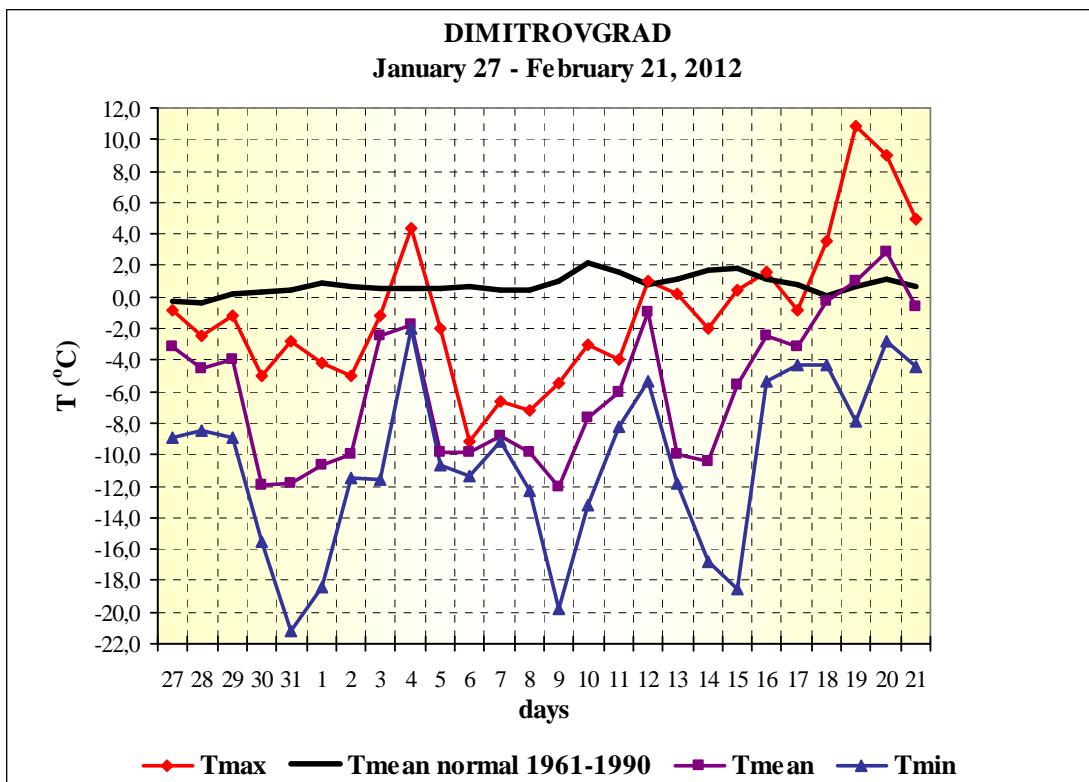
Appendix 2



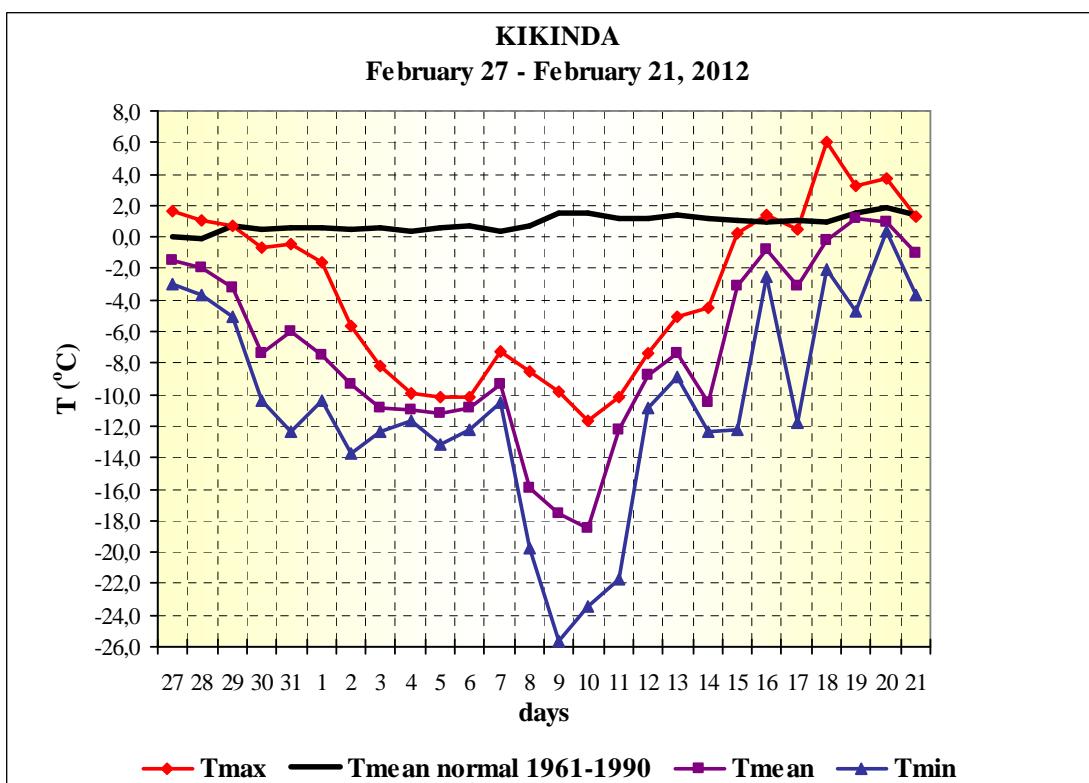
Graph 1: Mean, maximum and minimum air temperature in Becej from January 27 - February 21 for the 1961 – 1990 base period



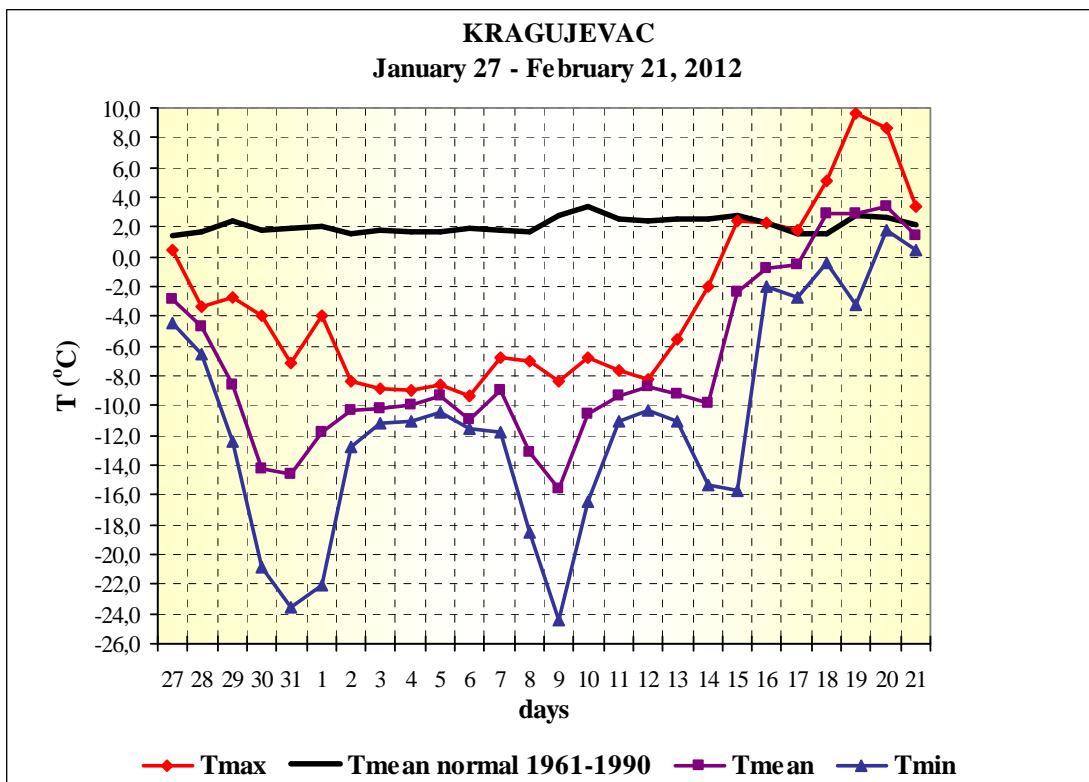
Graph 2: Mean, maximum and minimum air temperature in Cuprija from January 27 - February 21 for the 1961 – 1990 base period



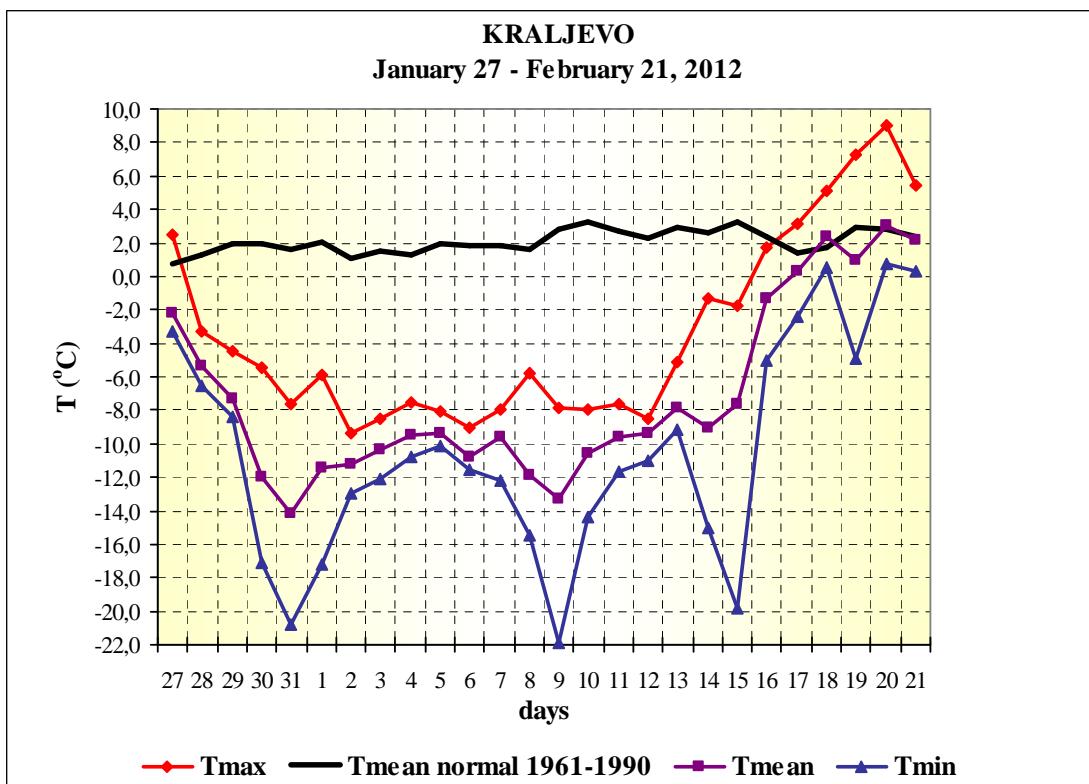
Graph 3: Mean, maximum and minimum air temperature in Dimitrovgrad from January 27 - February 21 for the 1961 – 1990 base period



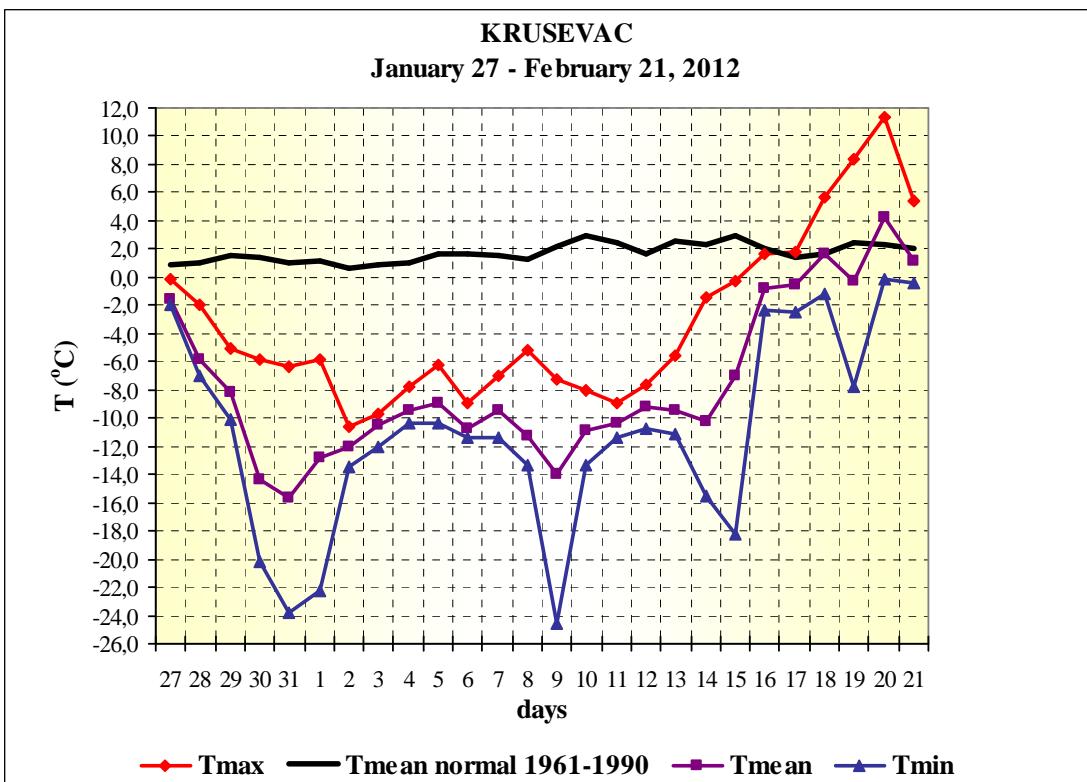
Graph 4: Mean, maximum and minimum air temperature in Kikinda from January 27 - February 21 for the 1961 – 1990 base period



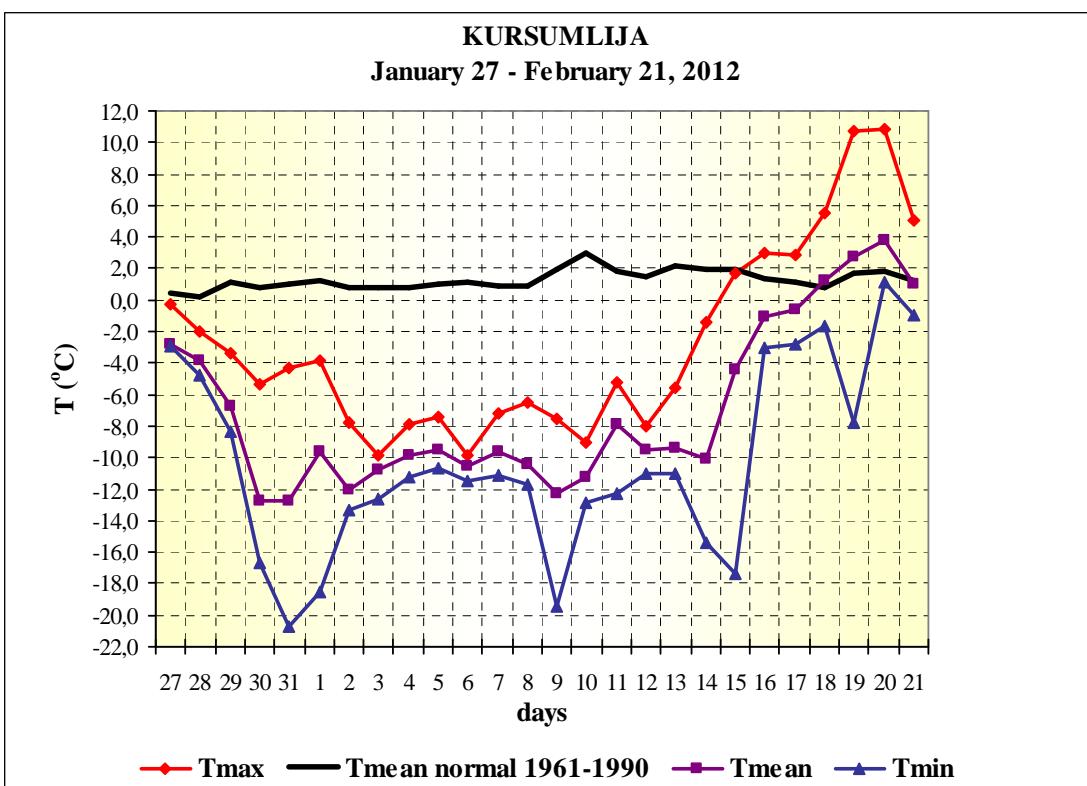
Graph 5: Mean, maximum and minimum air temperature in Kragujevac from January 27 - February 21 for the 1961 – 1990 base period



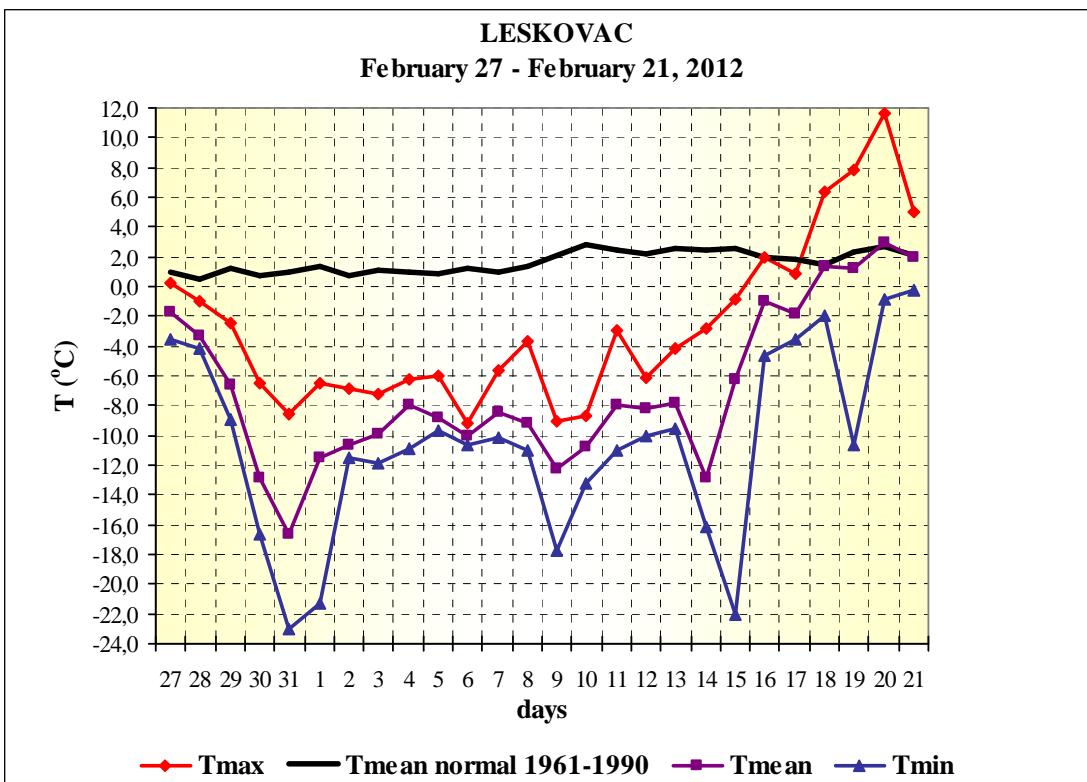
Graph 6: Mean, maximum and minimum air temperature in Kraljevo from January 27 - February 21 for the 1961 – 1990 base period



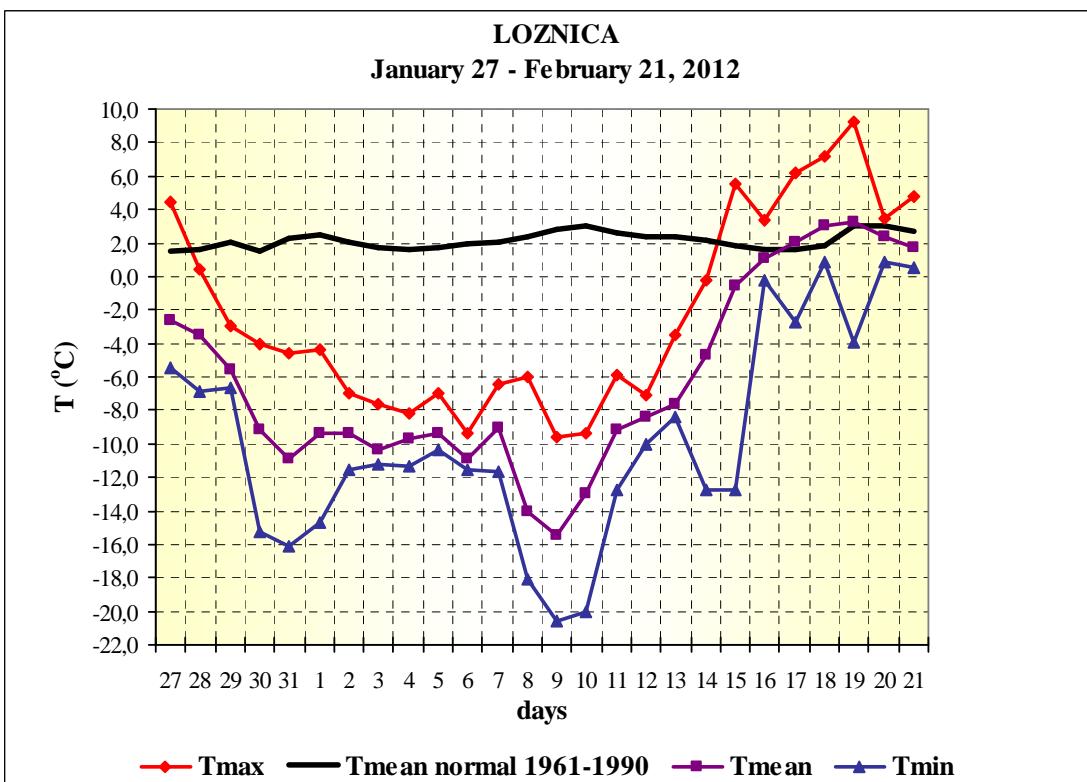
Graph 7: Mean, maximum and minimum air temperature in Krusevac from January 27 - February 21 for the 1961 – 1990 base period



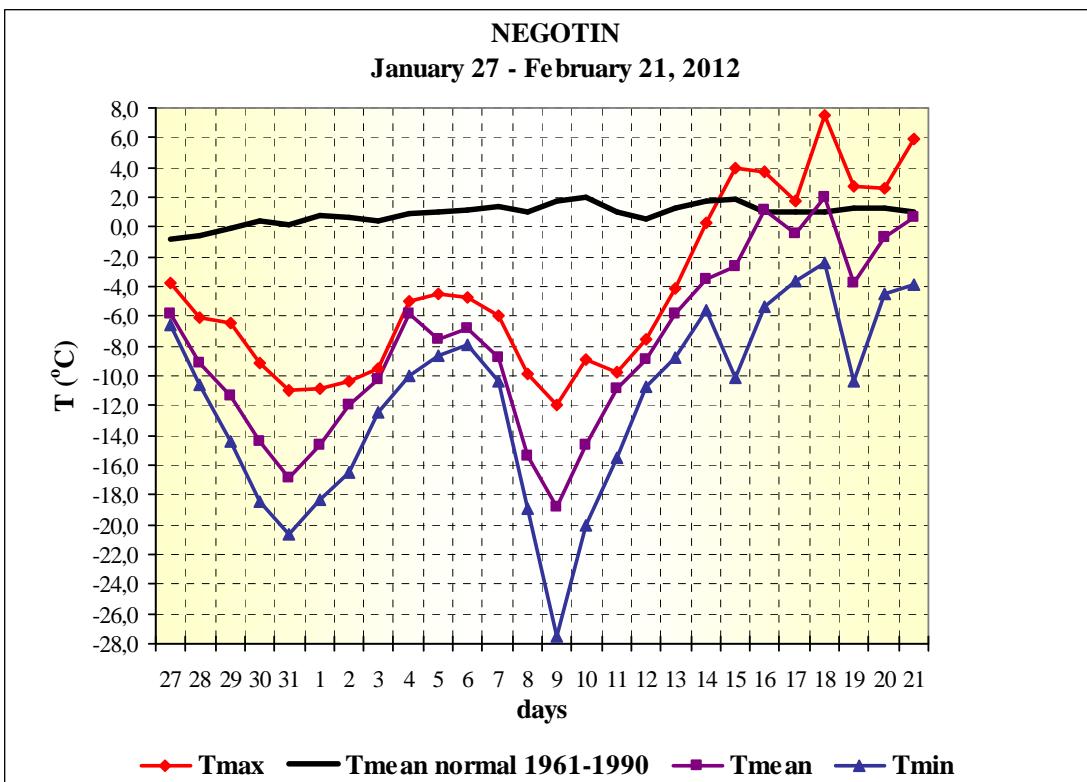
Graph 8: Mean, maximum and minimum air temperature in Kursumlija from January 27 - February 21 for the 1961 – 1990 base period



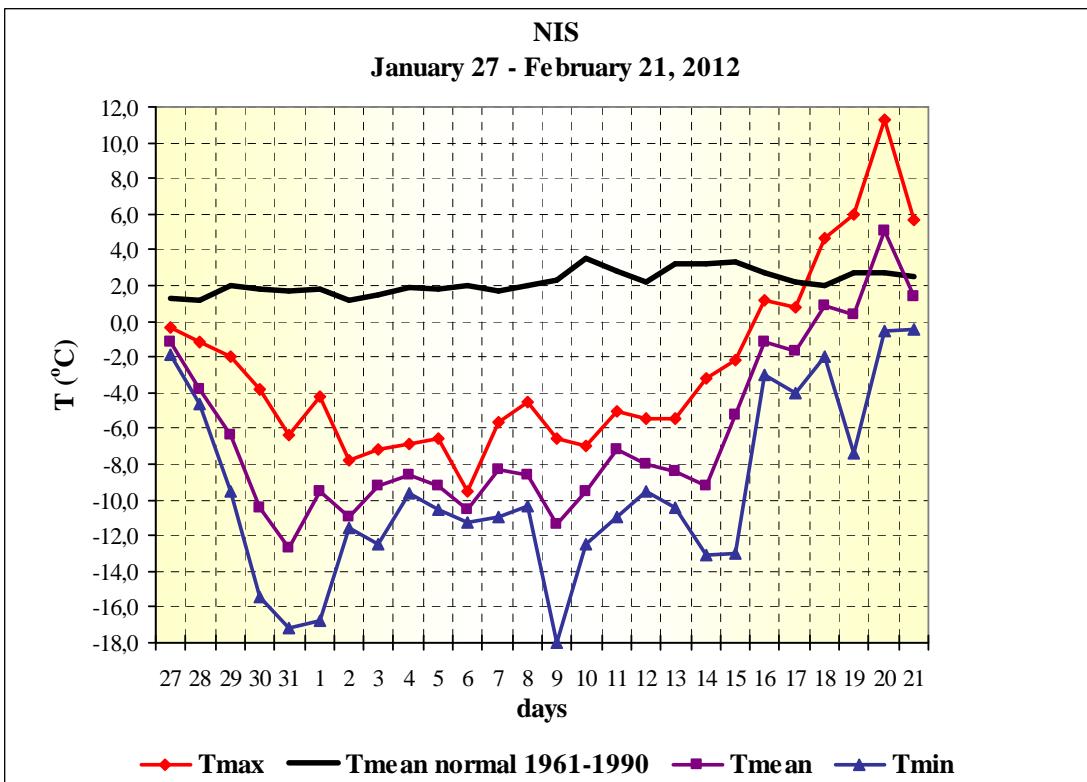
Graph 9: Mean, maximum and minimum air temperature in Leskovac from January 27 - February 21 for the 1961 – 1990 base period



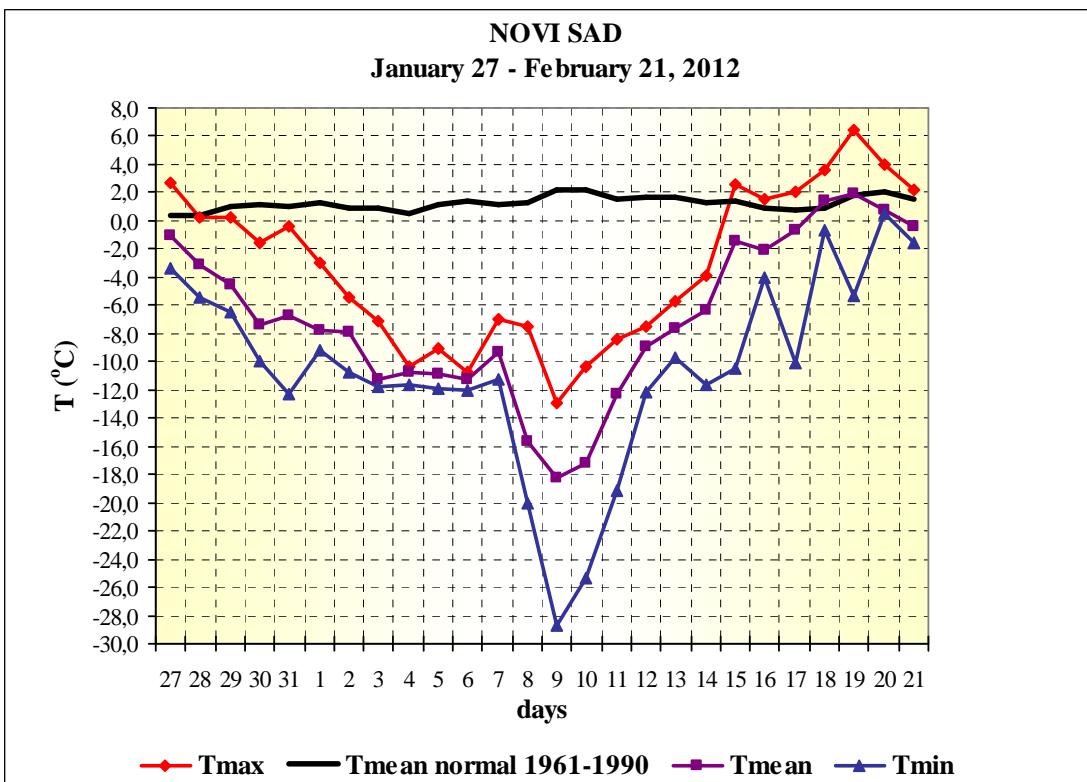
Graph 10: Mean, maximum and minimum air temperature in Loznica from January 27 - February 21 for the 1961 – 1990 base period



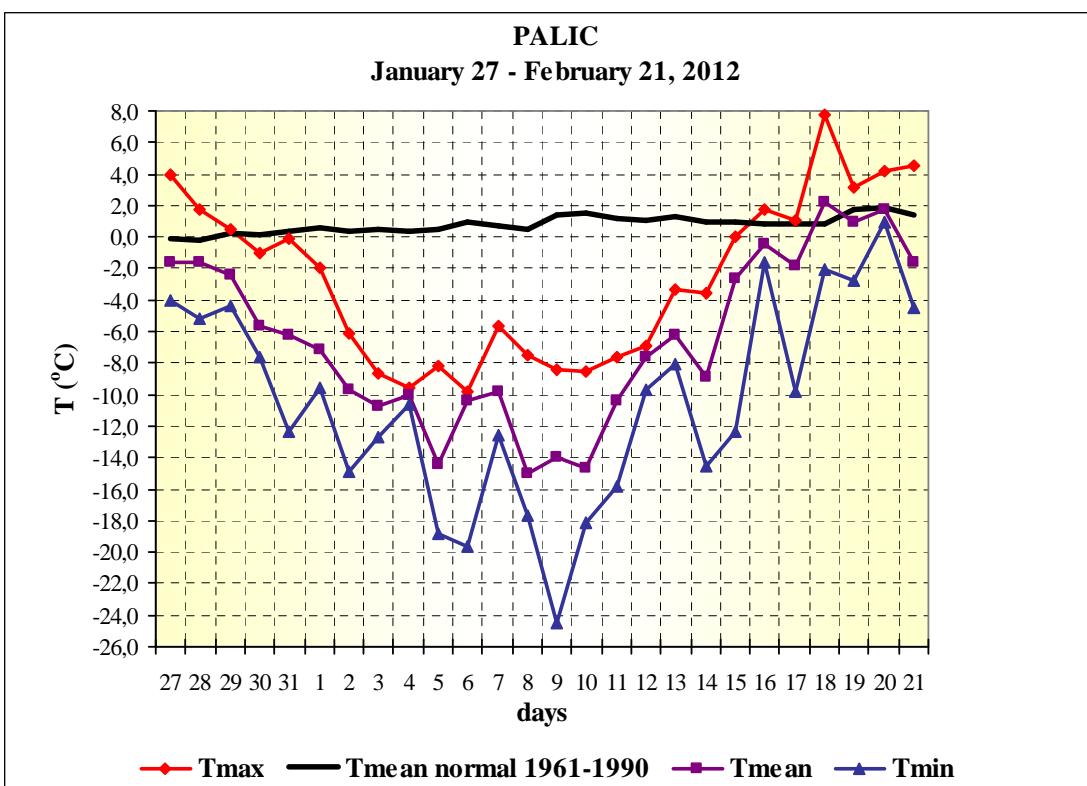
Graph 11: Mean, maximum and minimum air temperature in Negotin from January 27 - February 21 for the 1961 – 1990 base period



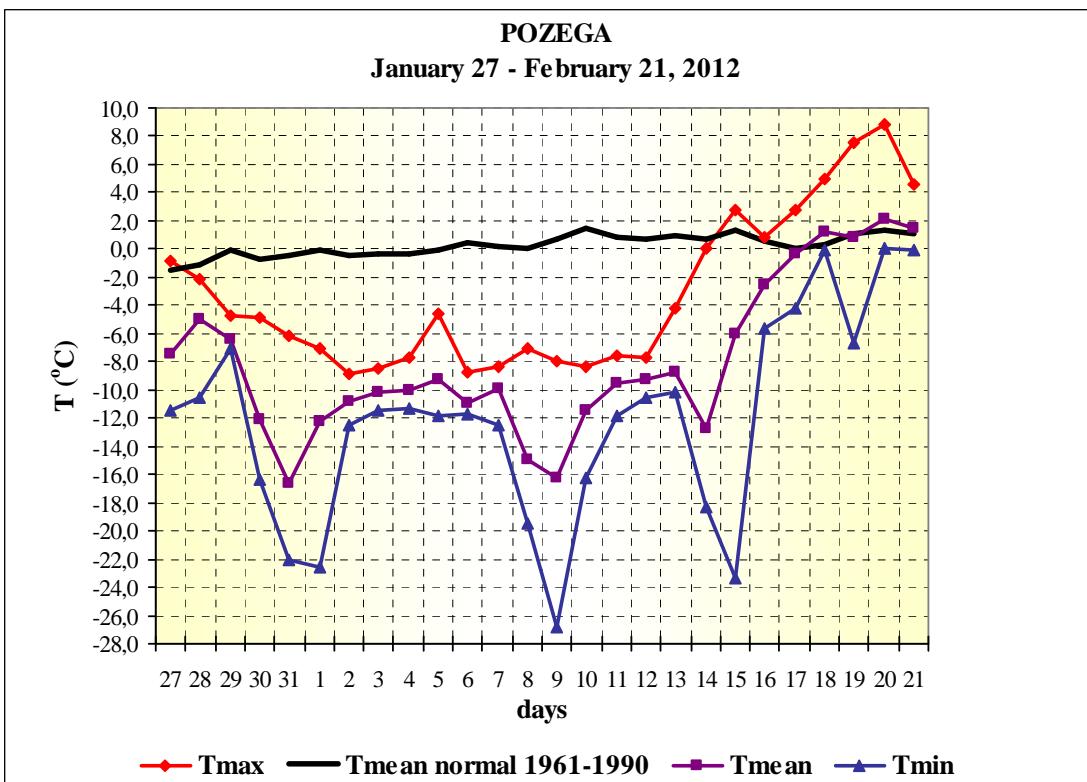
Graph 12: Mean, maximum and minimum air temperature in Nis from January 27 - February 21 for the 1961 – 1990 base period



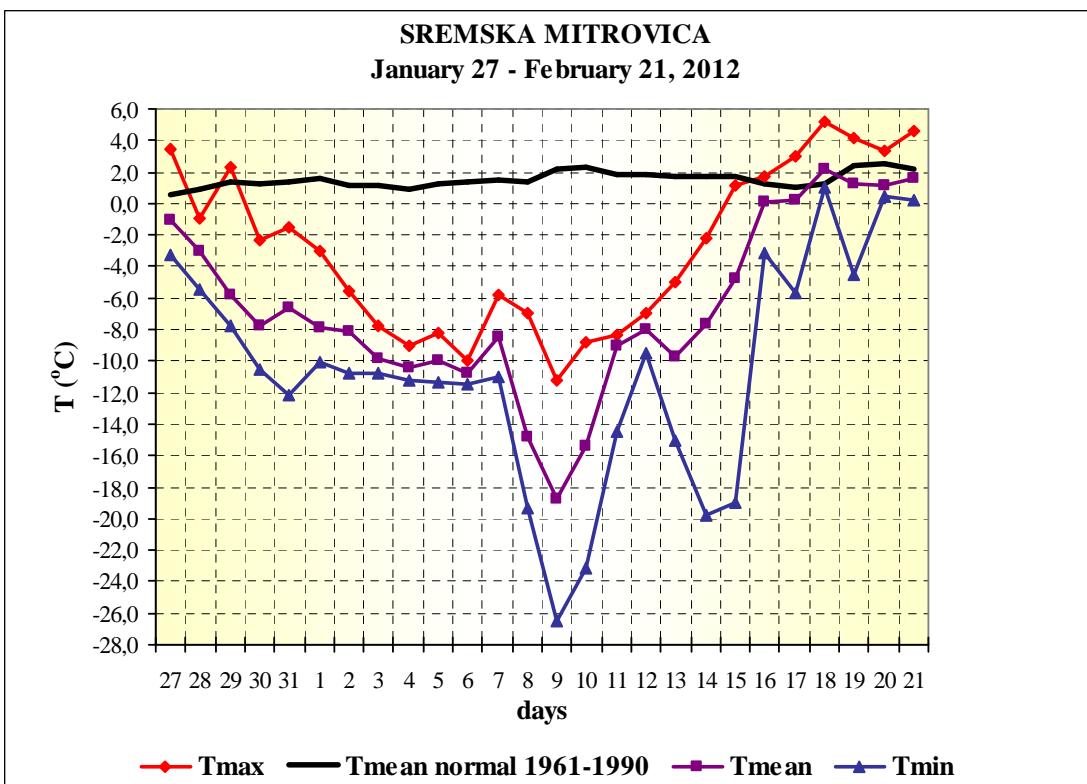
Graph 13: Mean, maximum and minimum air temperature in Novi Sad from January 27 - February 21 for the 1961 – 1990 base period



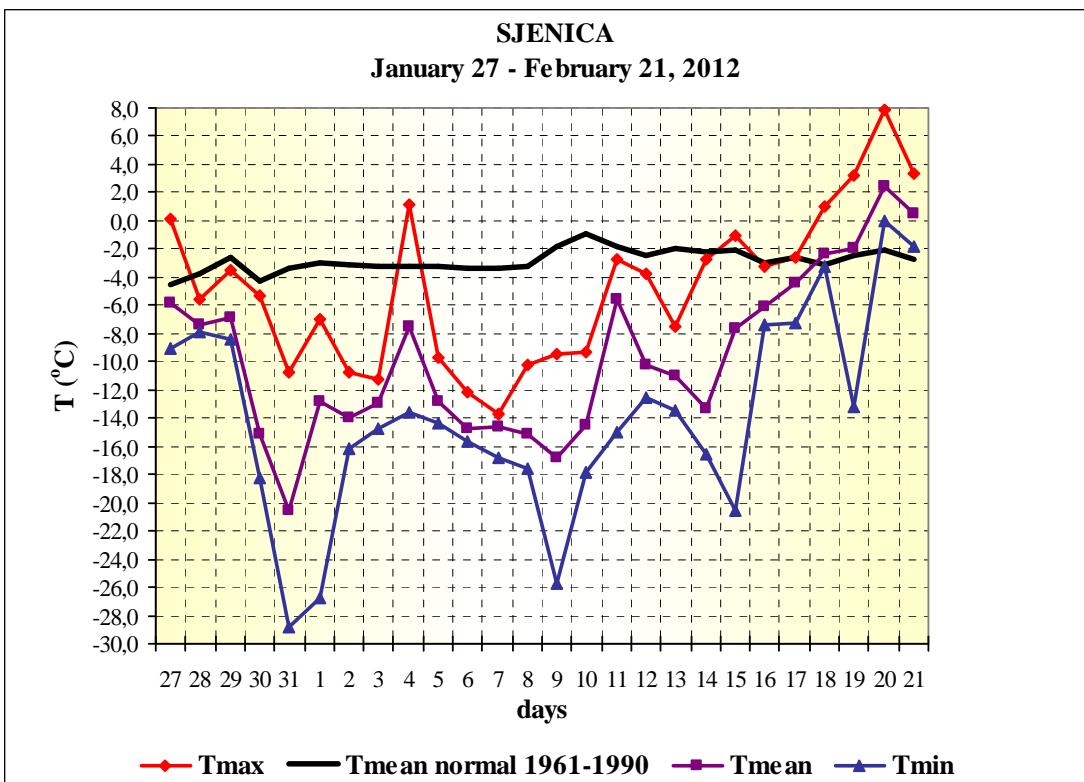
Graph 14: Mean, maximum and minimum air temperature in Palic from January 27 - February 21 for the 1961 – 1990 base period



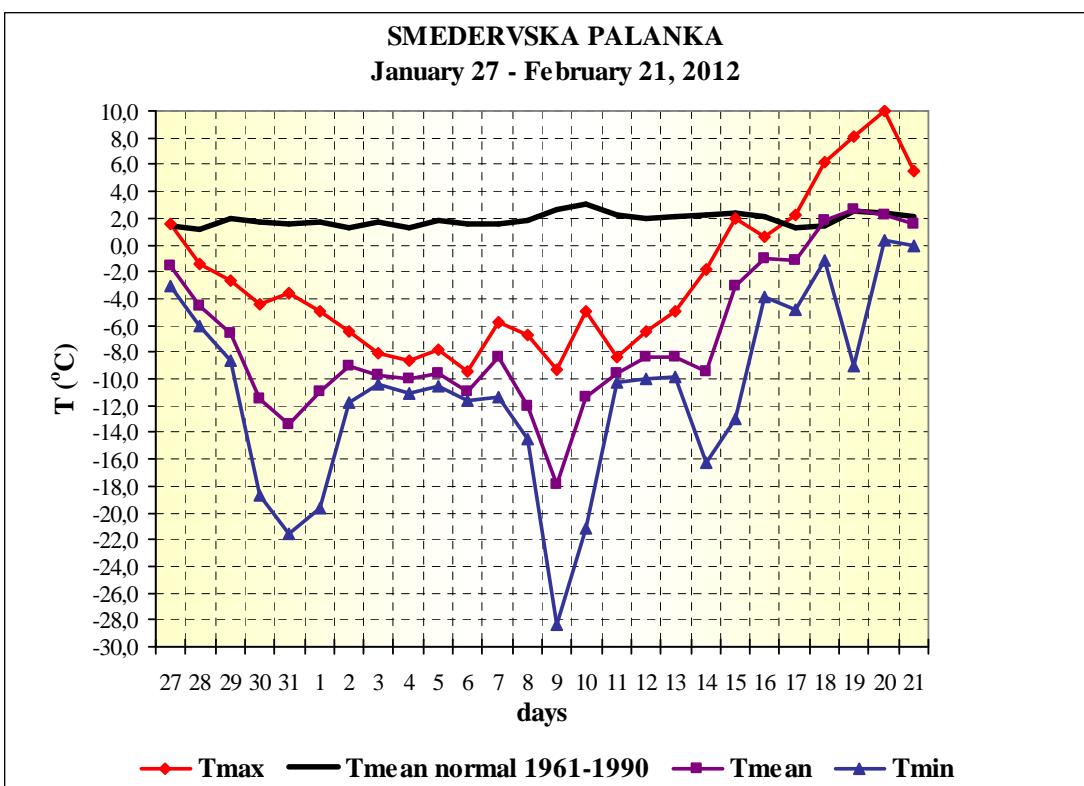
Graph 15: Mean, maximum and minimum air temperature in Pozega from January 27 - February 21 for the 1961 – 1990 base period



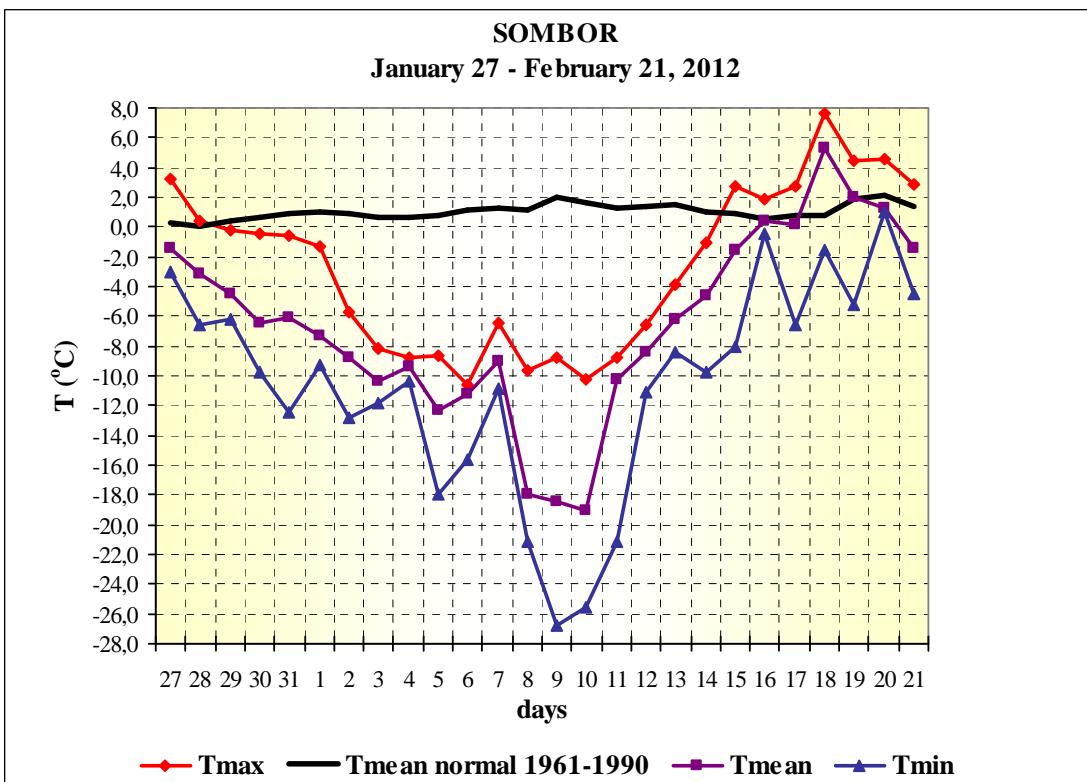
Graph 16: Mean, maximum and minimum air temperature in Sremska Mitrovica from January 27 - February 21 for the 1961 – 1990 base period



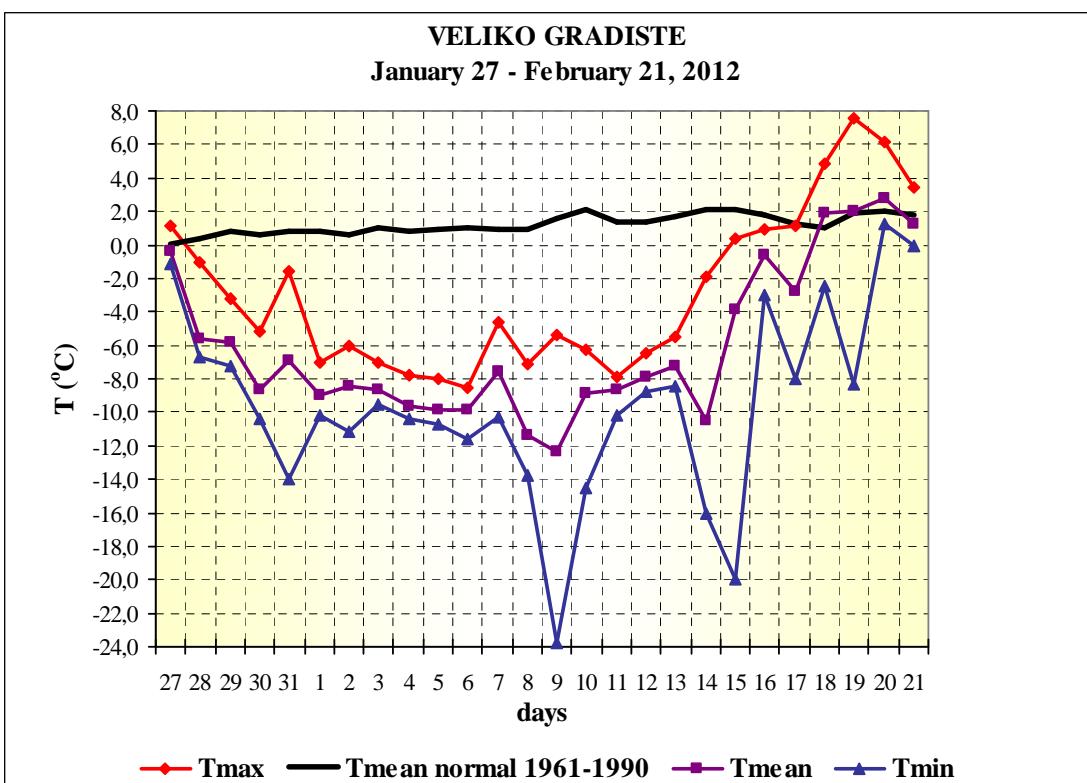
Graph 17: Mean, maximum and minimum air temperature in Sjenica from January 27 - February 21 for the 1961 – 1990 base period



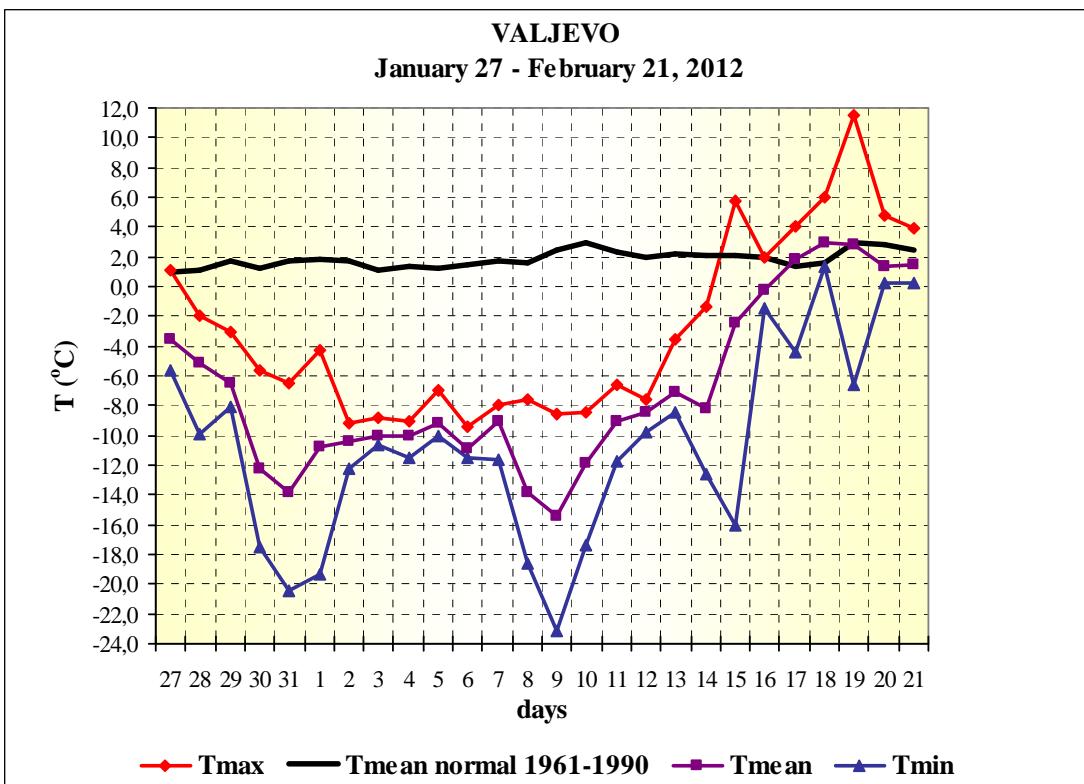
Graph 18: Mean, maximum and minimum air temperature in Smederevska Palanka from January 27 - February 21 for the 1961 – 1990 base period



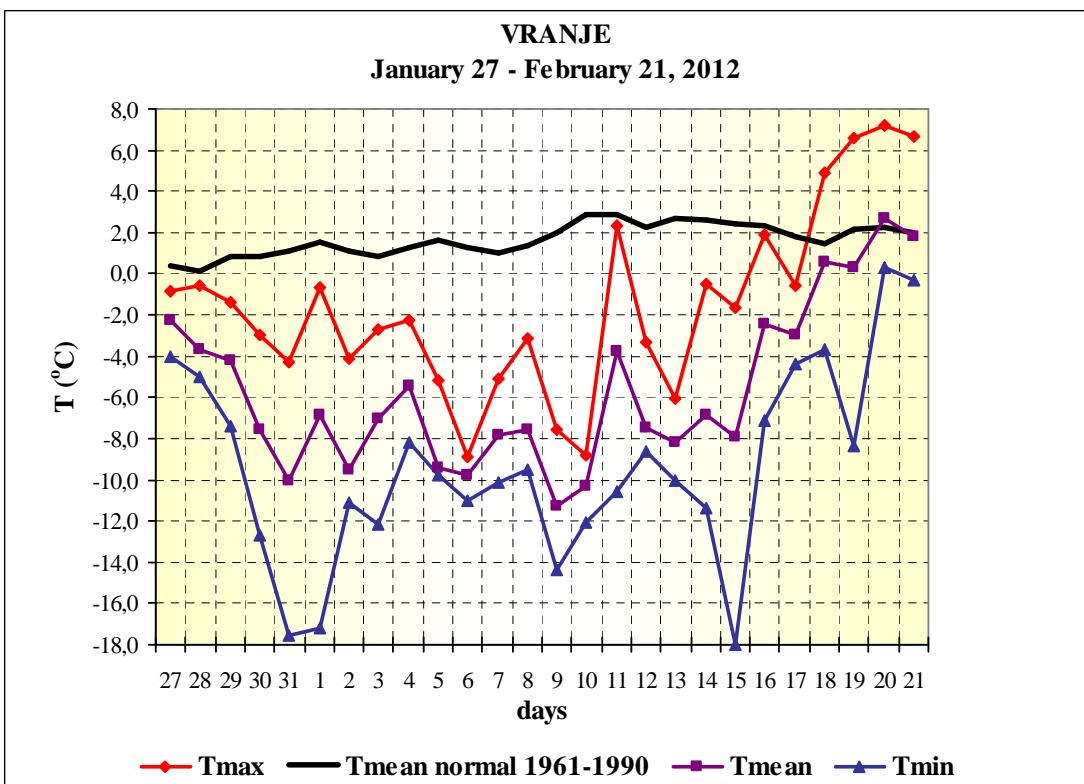
Graph 19: Mean, maximum and minimum air temperature in Sombor from January 27 - February 21 for the 1961 – 1990 base period



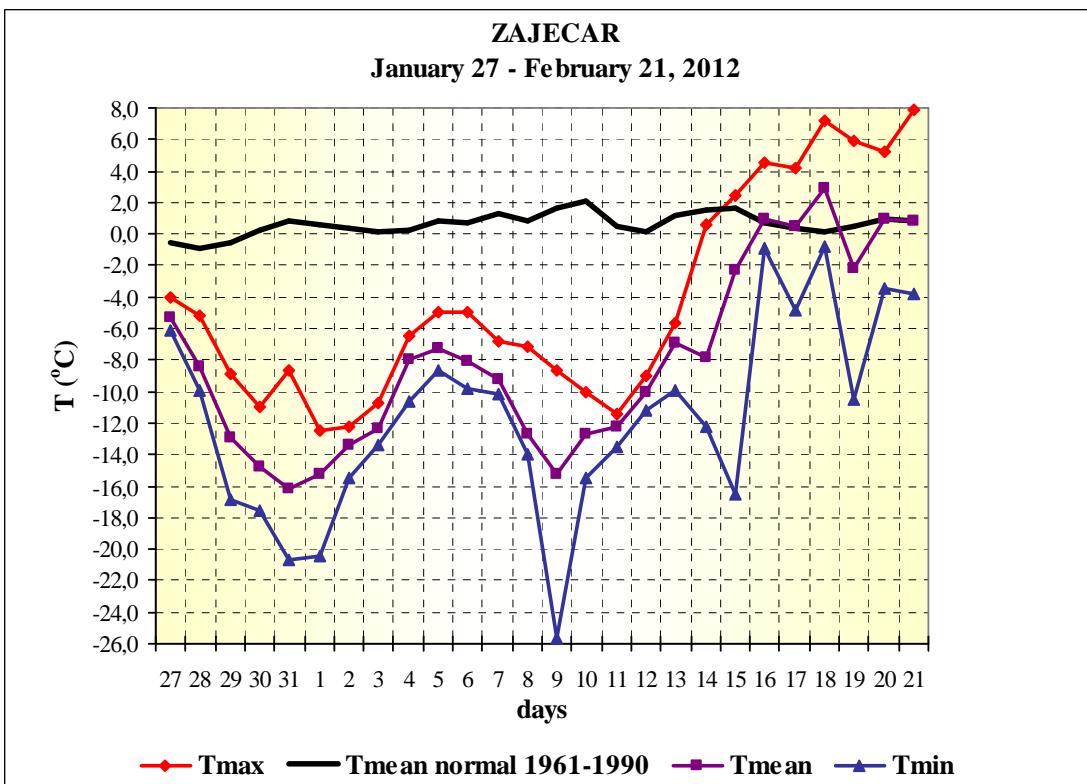
Graph 20: Mean, maximum and minimum air temperature in Veliko Gradiste from January 27 - February 21 for the 1961 – 1990 base period



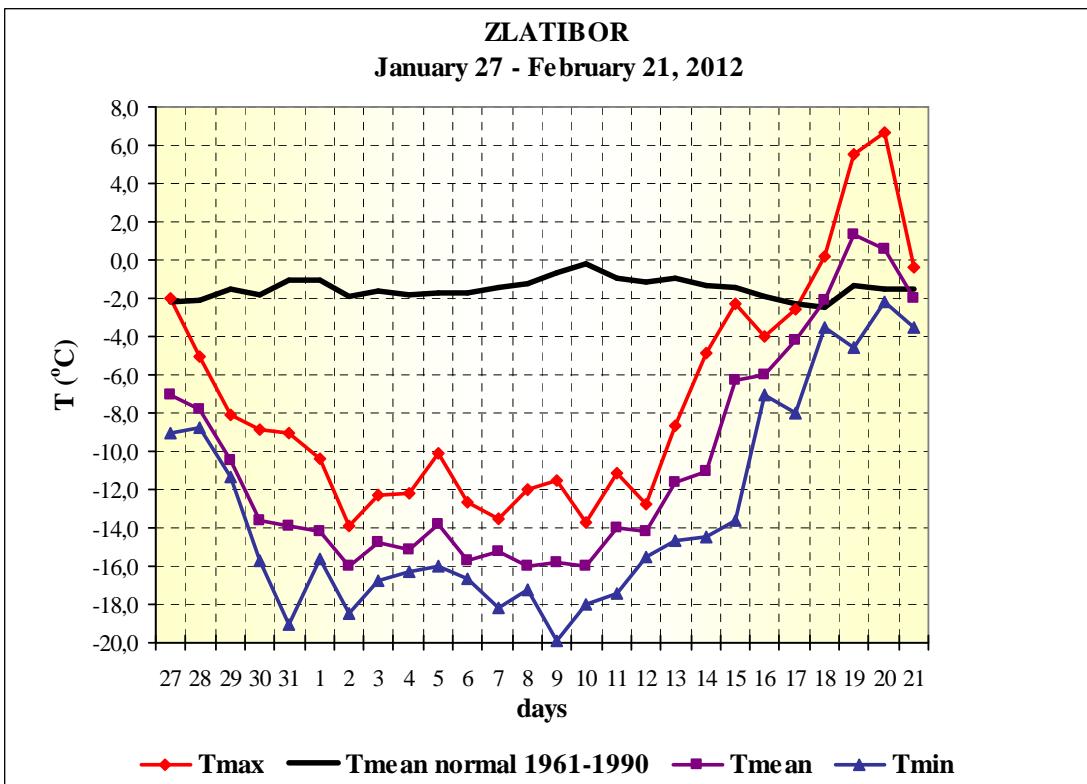
Graph 21: Mean, maximum and minimum air temperature in Valjevo from January 27 - February 21 for the 1961 – 1990 base period



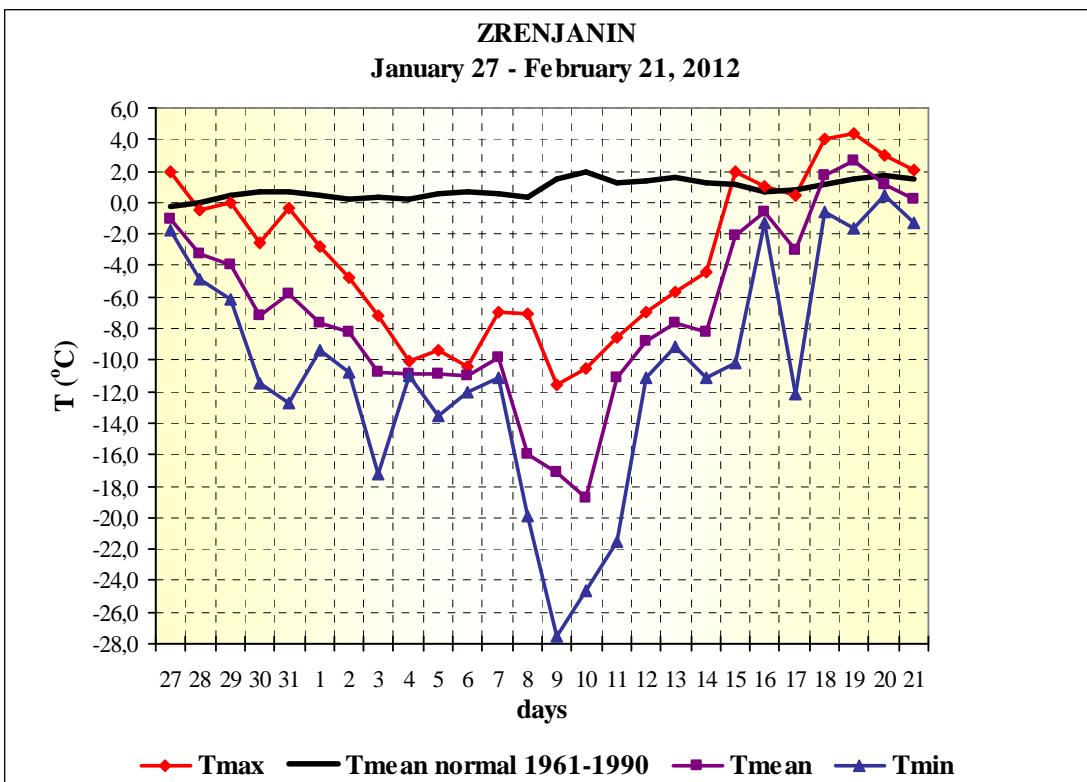
Graph 22: Mean, maximum and minimum air temperature in Vranje from January 27 - February 21 for the 1961 – 1990 base period



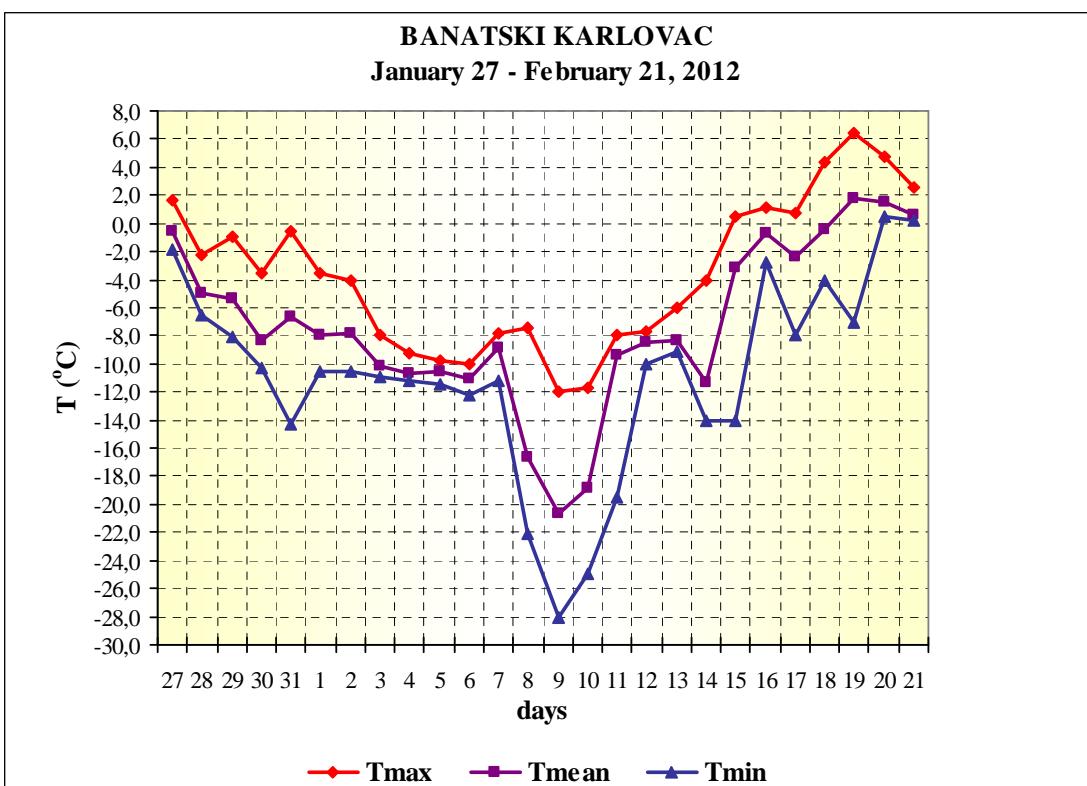
Graph 23: Mean, maximum and minimum air temperature in Zajecar from January 27 - February 21 for the 1961 – 1990 base period



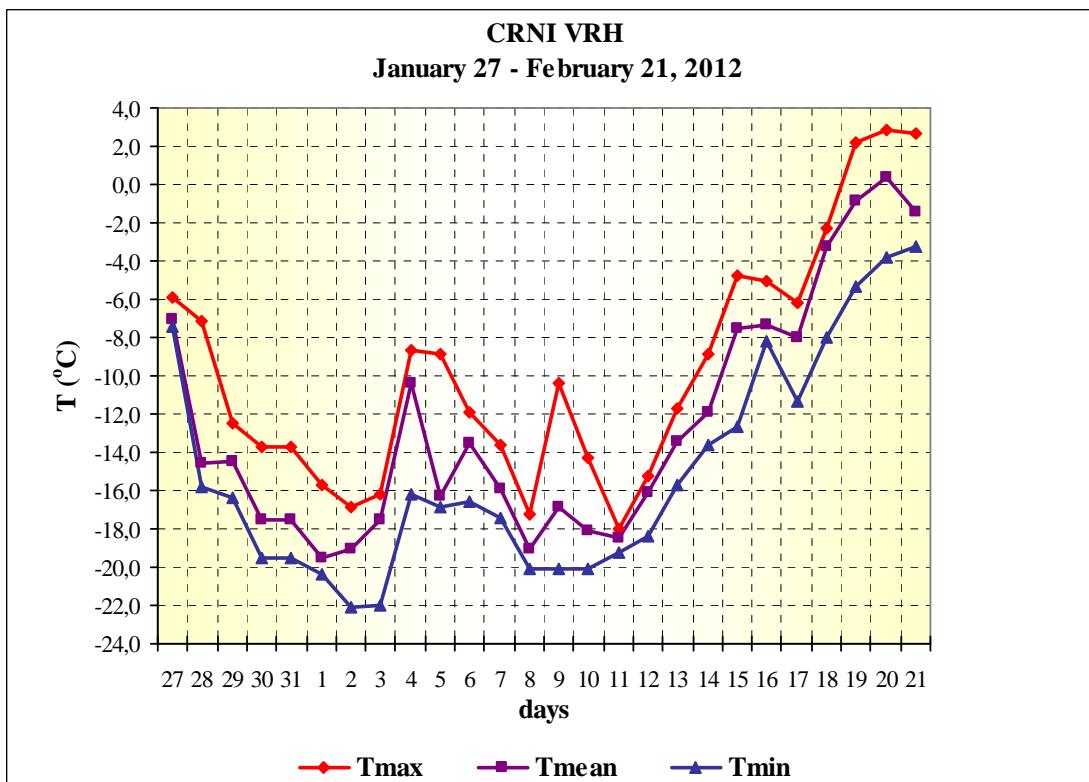
Graph 24: Mean, maximum and minimum air temperature on Zlatibor Mountain from January 27 - February 21 for the 1961 – 1990 base period



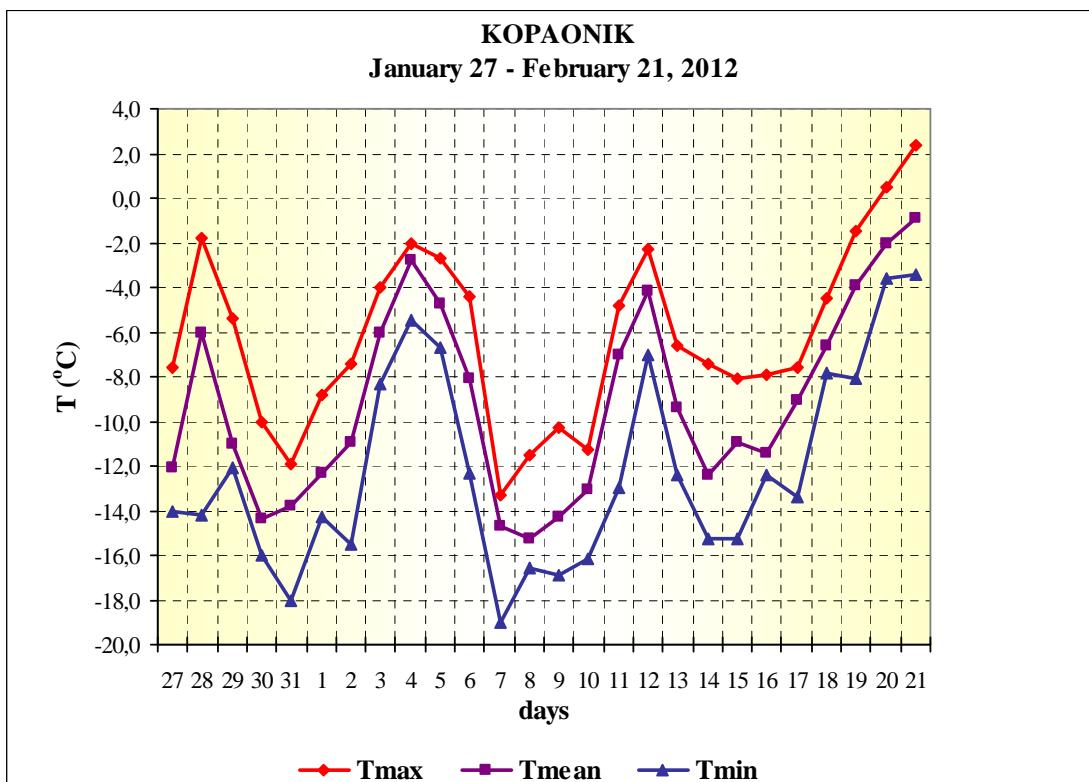
Graph 25: Mean, maximum and minimum air temperature in Zrenjanin from January 27 - February 21 for the 1961 – 1990 base period



Graph 26: Mean, maximum and minimum air temperature in Banatski Karlovac from January 27 - February 21 for the 1961 – 1990 base period



Graph 27: Mean, maximum and minimum air temperature on Crni Vrh from January 27 - February 21



Graph 28: Mean, maximum and minimum air temperature on Kopaonik Mountain from January 27 - February 21

Appendix 3

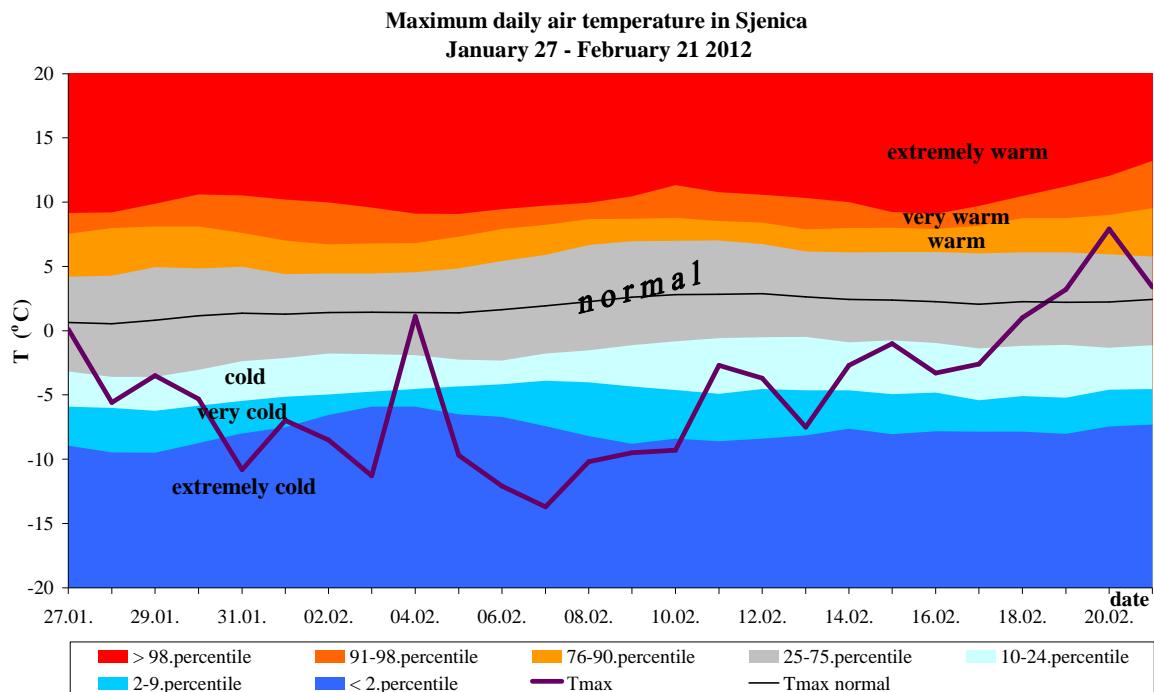


Figure 1: Diagram of the maximum air temperature in Sjenica between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

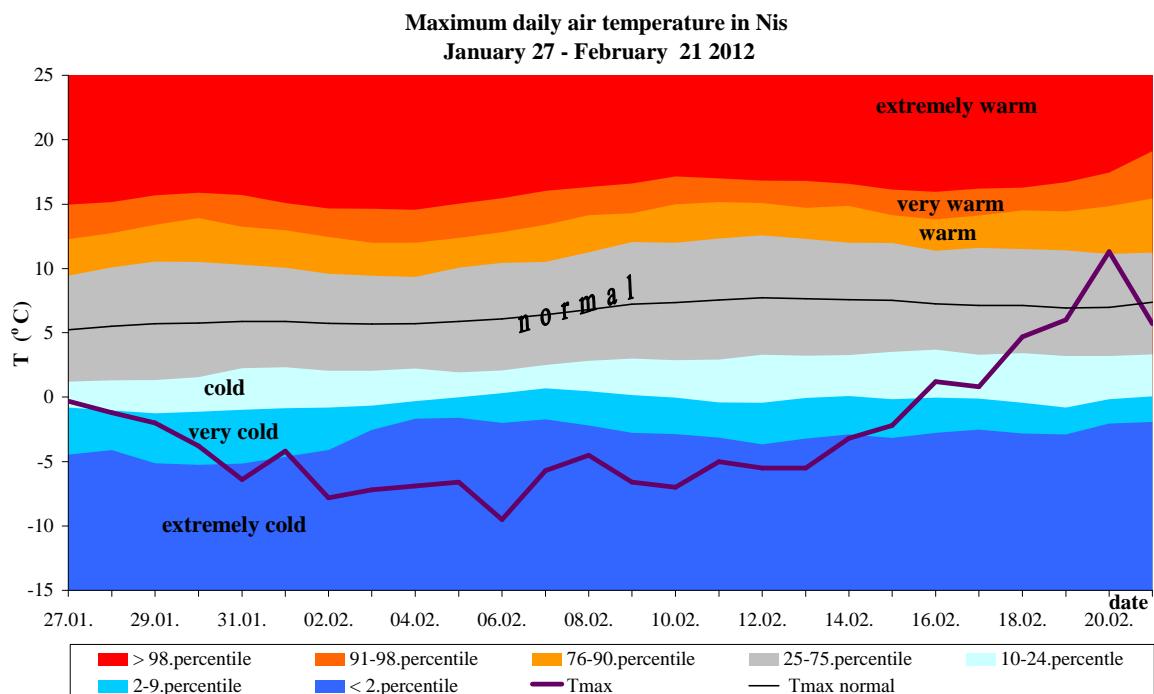


Figure 2: Diagram of the maximum air temperature in Nis between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

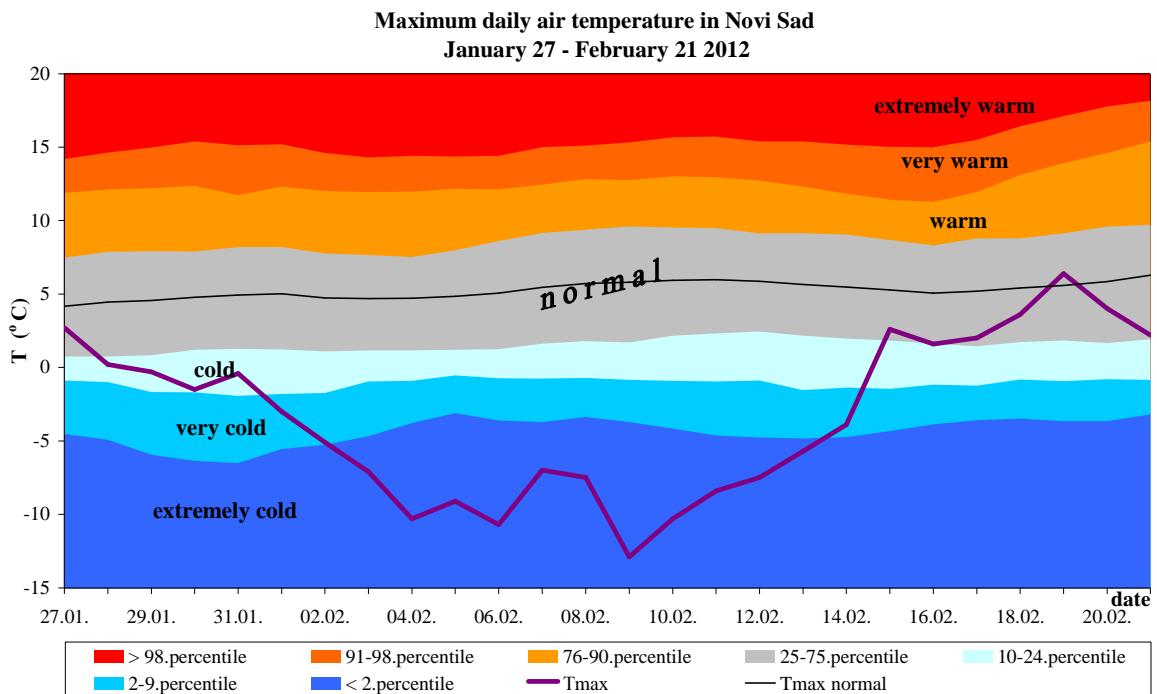


Figure 3: Diagram of the maximum air temperature in Novi Sad between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

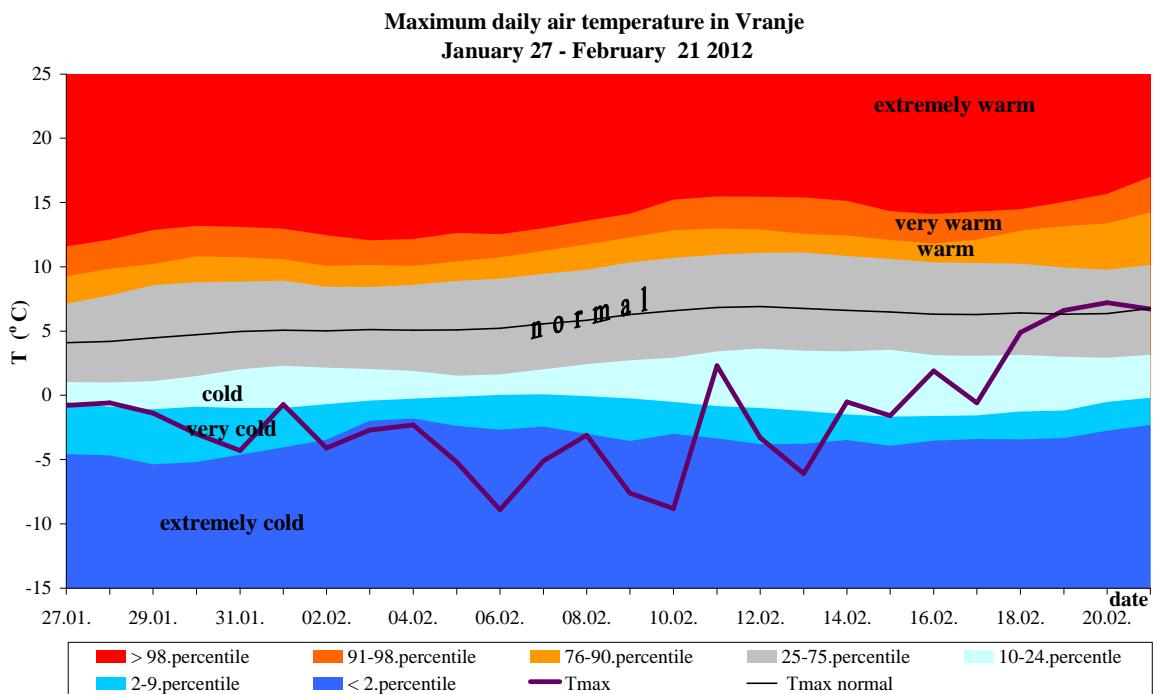


Figure 4: Diagram of the maximum air temperature in Vranje between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

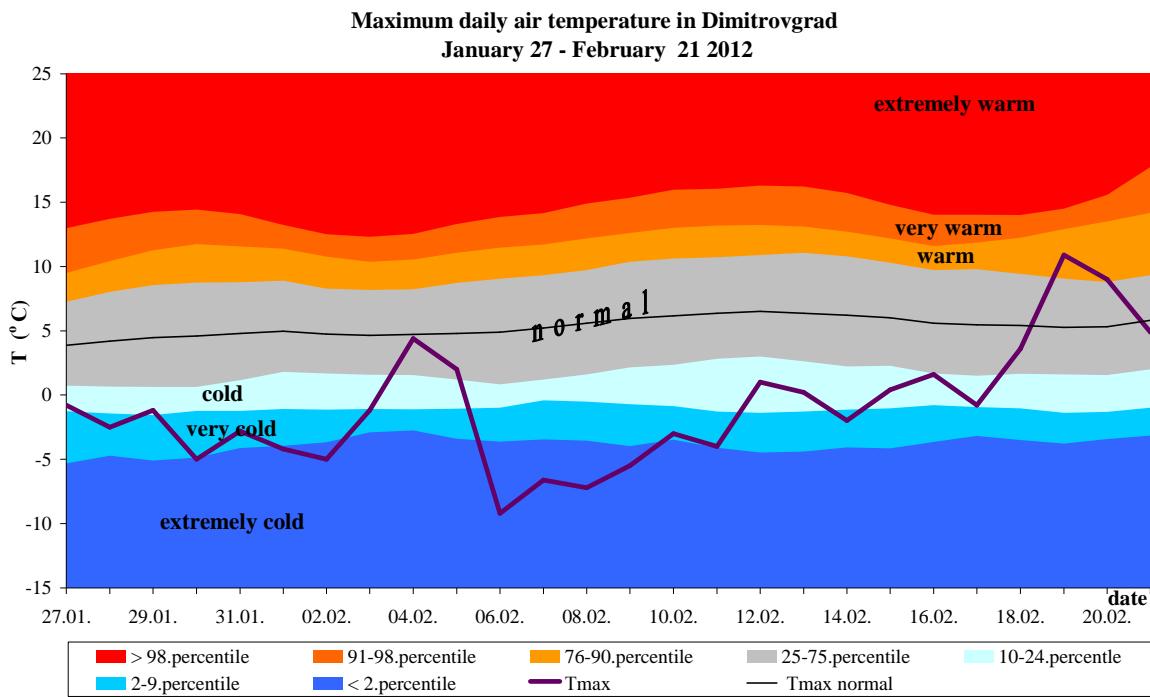


Figure 5: Diagram of the maximum air temperature in Dimitrovgrad between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

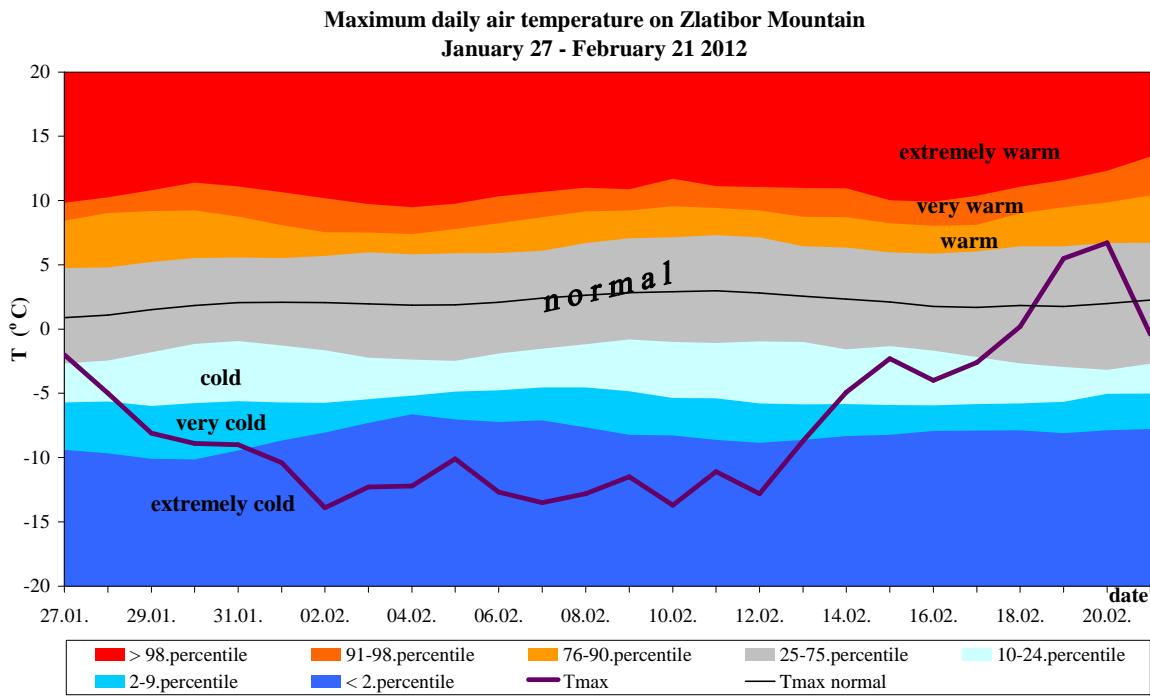


Figure 6: Diagram of the maximum air temperature on Zlatibor Mountain between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

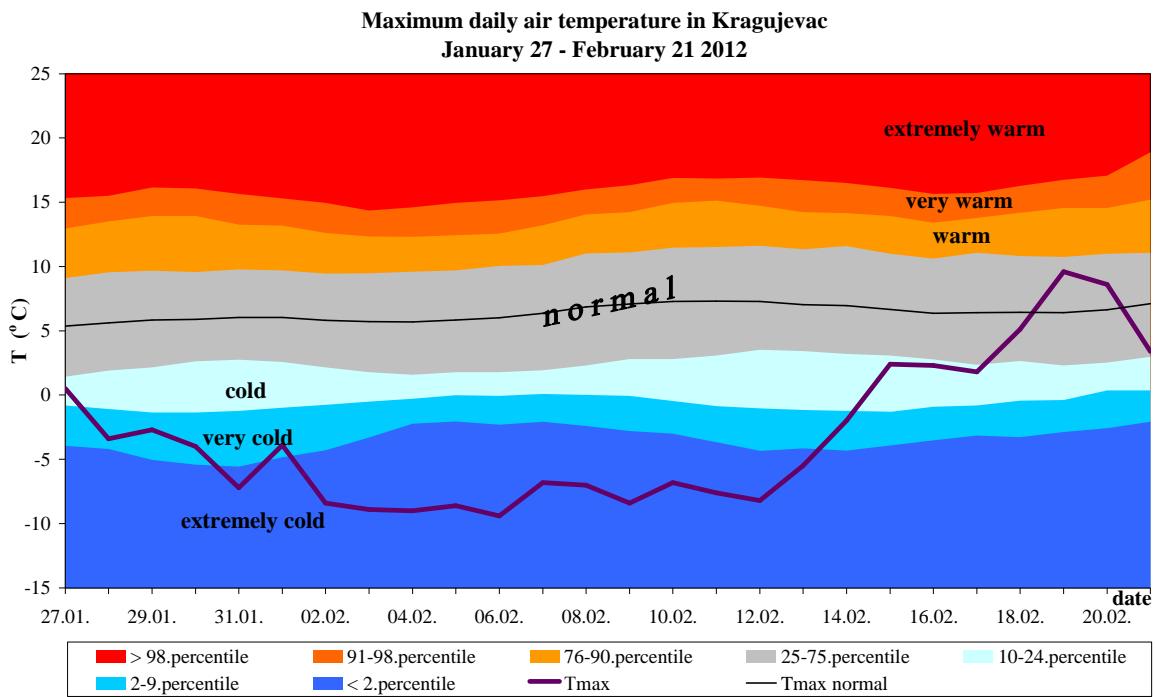


Figure 7: Diagram of the maximum air temperature in Kragujevac between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

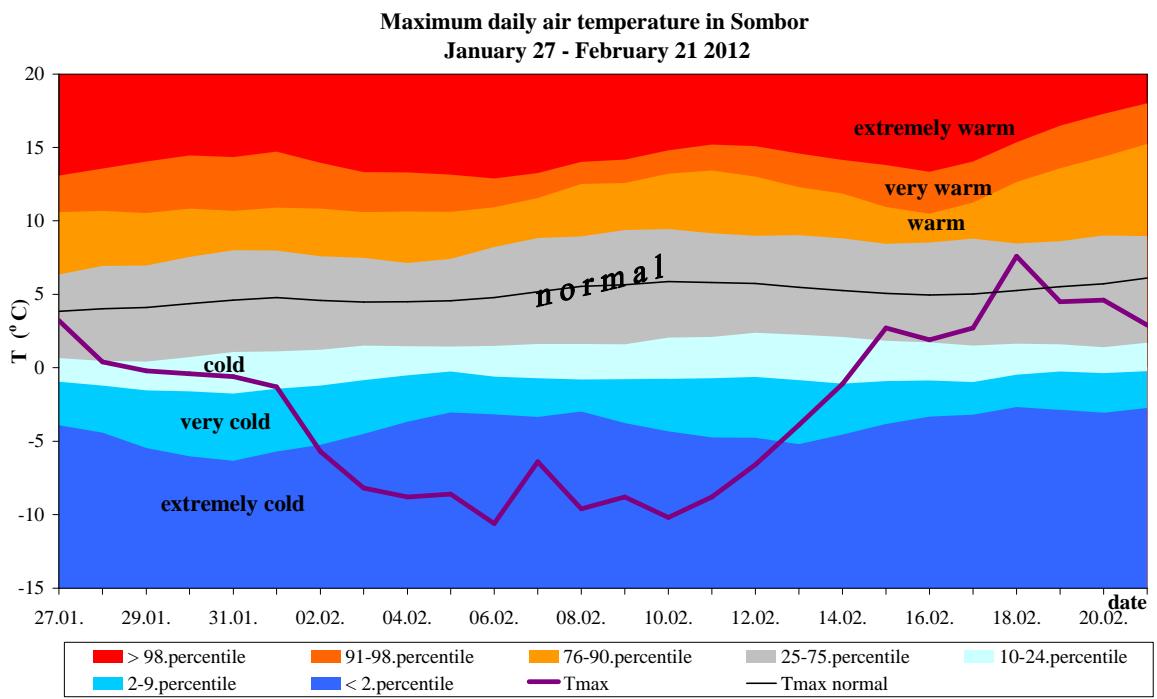


Figure 8: Diagram of the maximum air temperature in Sombor between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

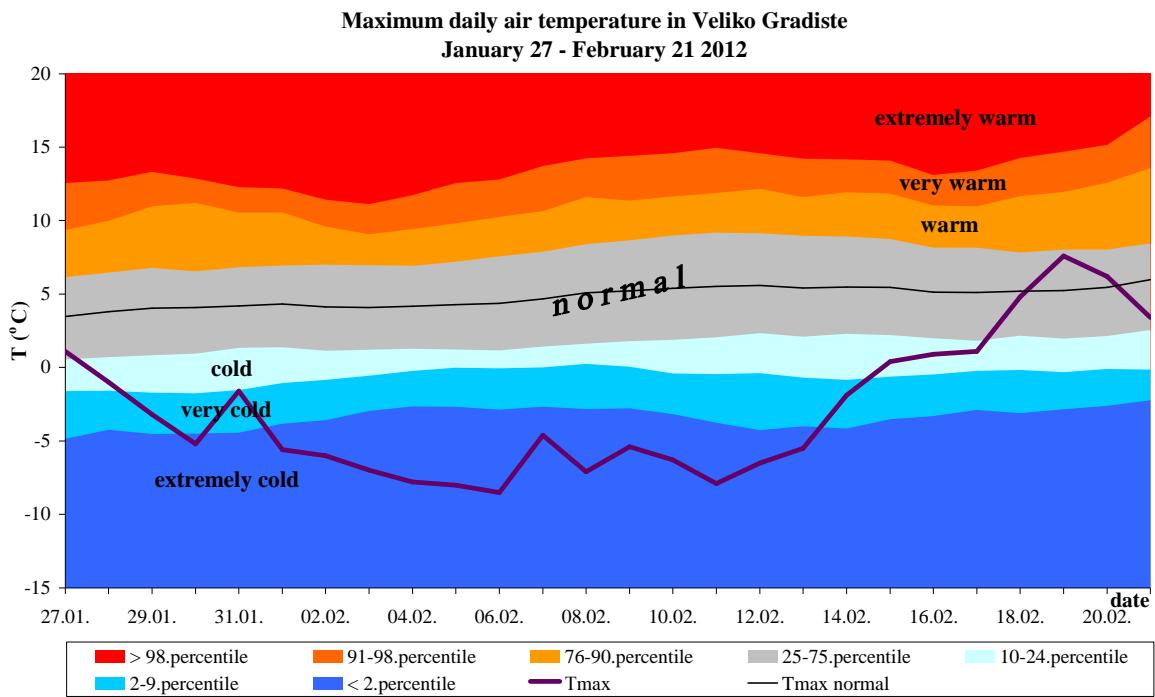


Figure 9: Diagram of the maximum air temperature in Veliko Gradiste between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

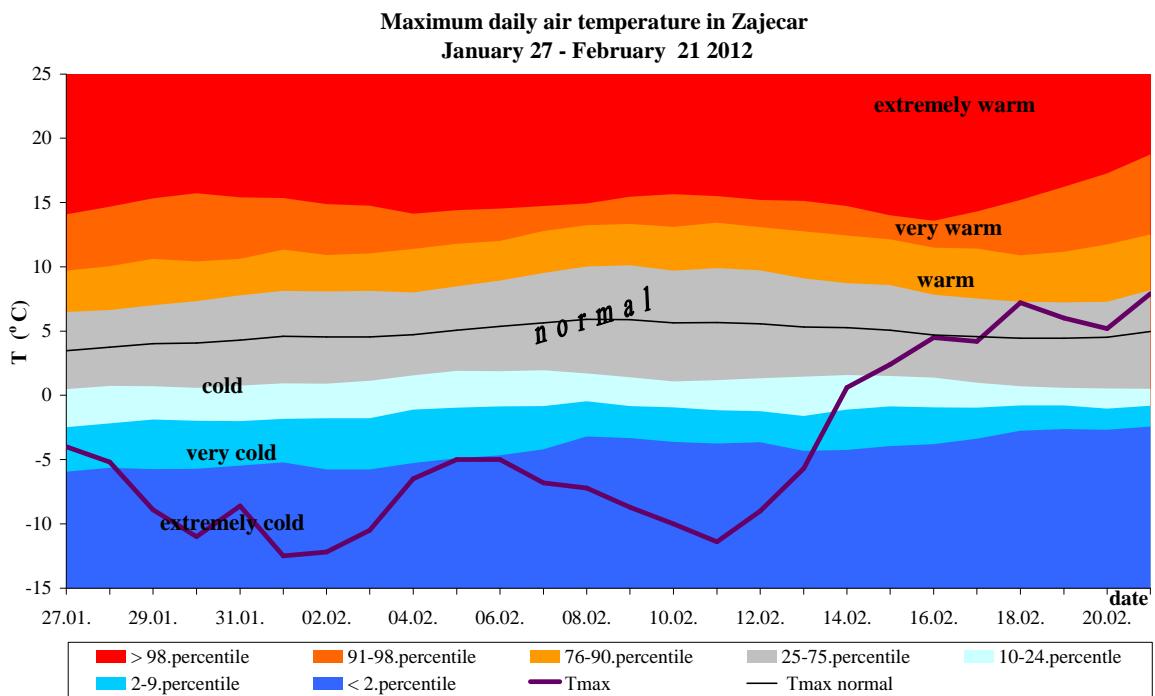


Figure 10: Diagram of the maximum air temperature in Zajecar between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

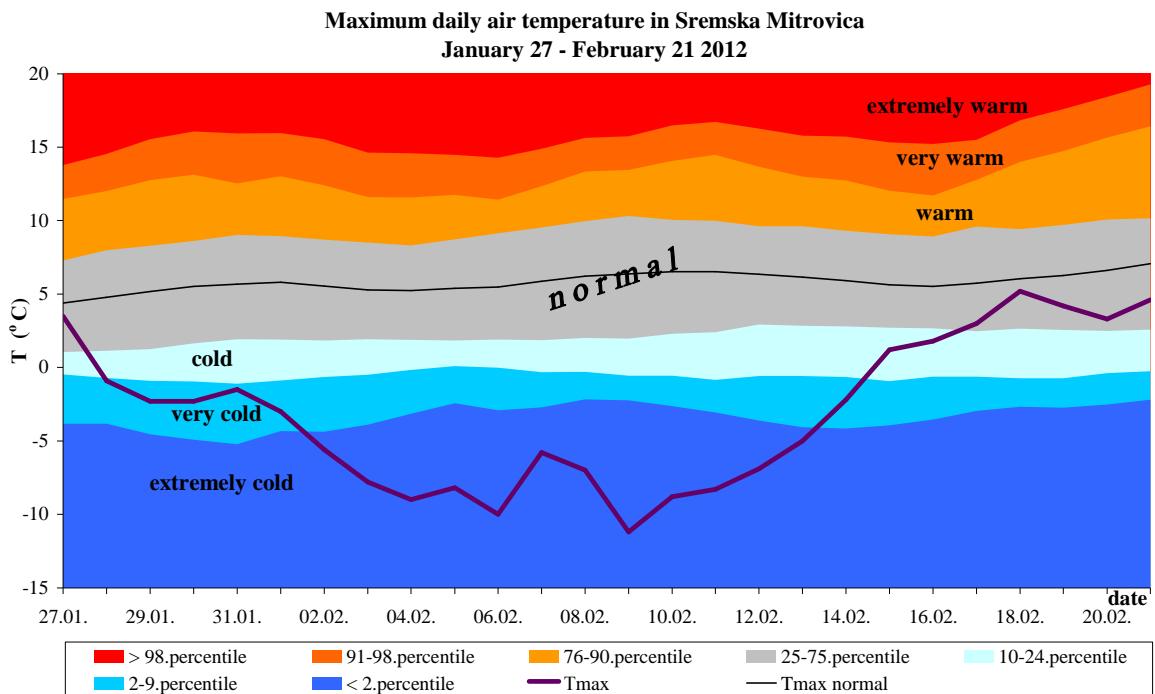


Figure 11: Diagram of the maximum air temperature in Sremska Mitrovica between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

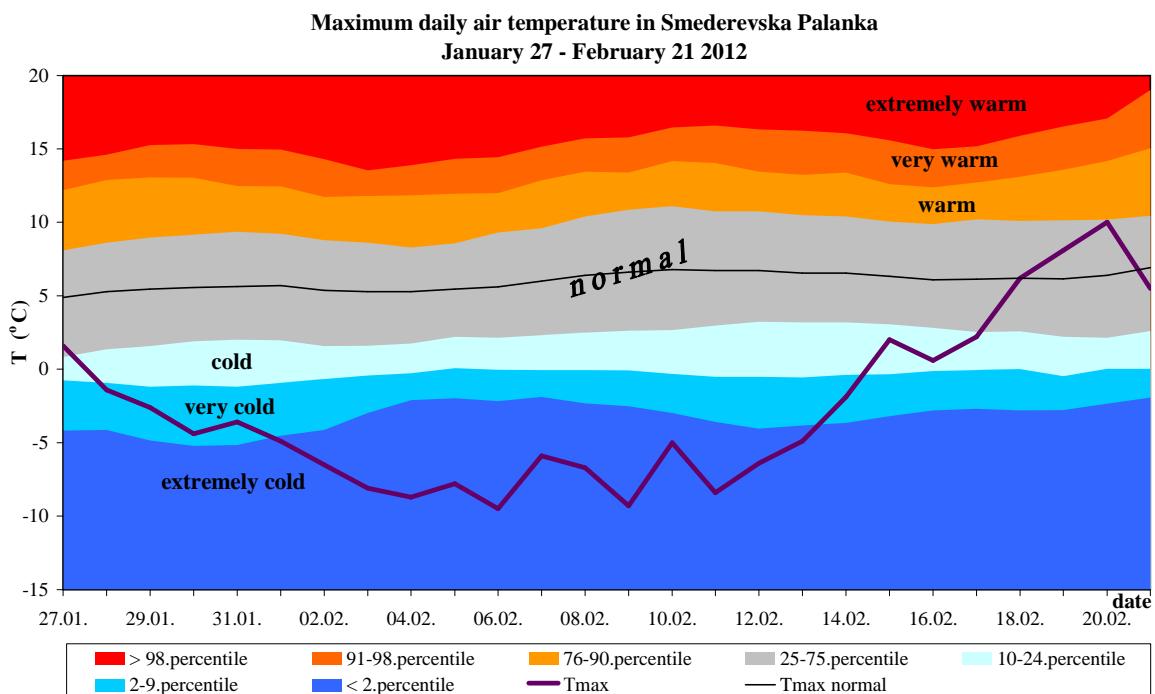


Figure 12: Diagram of the maximum air temperature in Smederevska Palanka between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

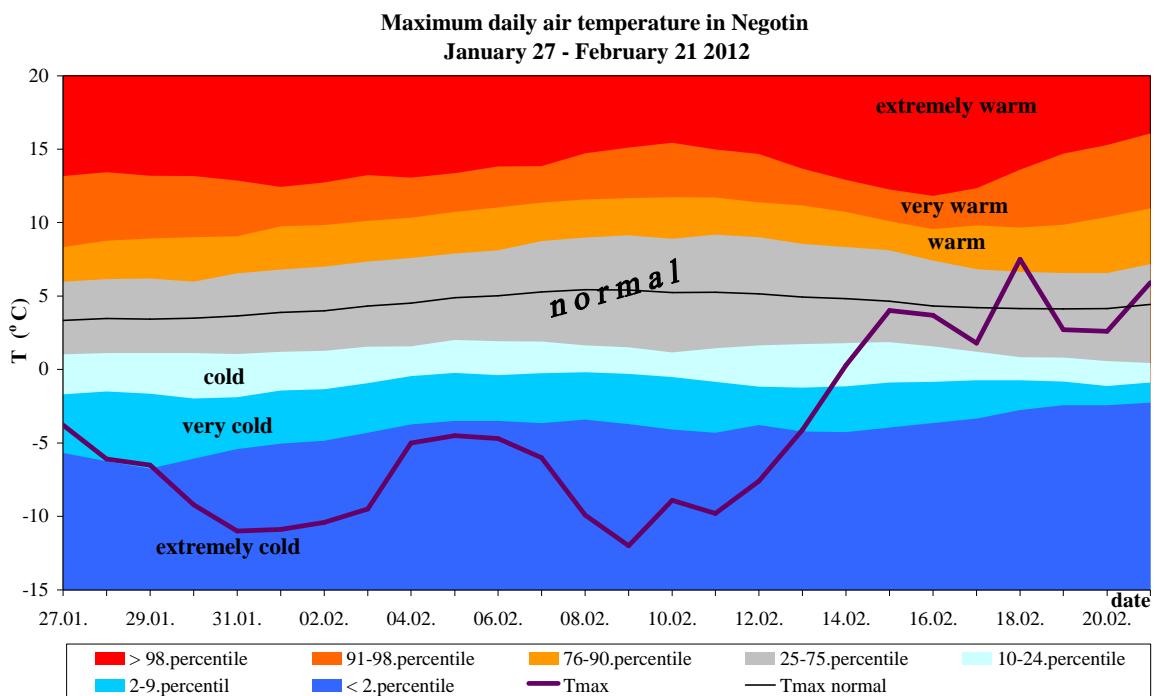


Figure 13: Diagram of the maximum air temperature in Negotin between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

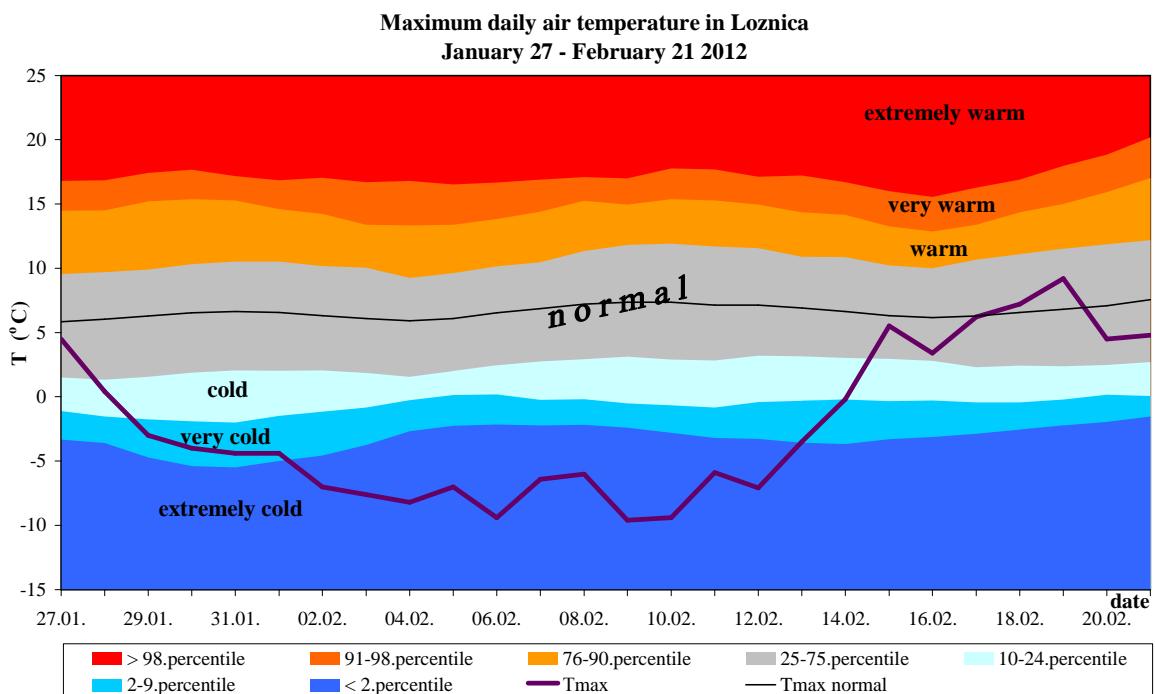


Figure 14: Diagram of the maximum air temperature in Loznica between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

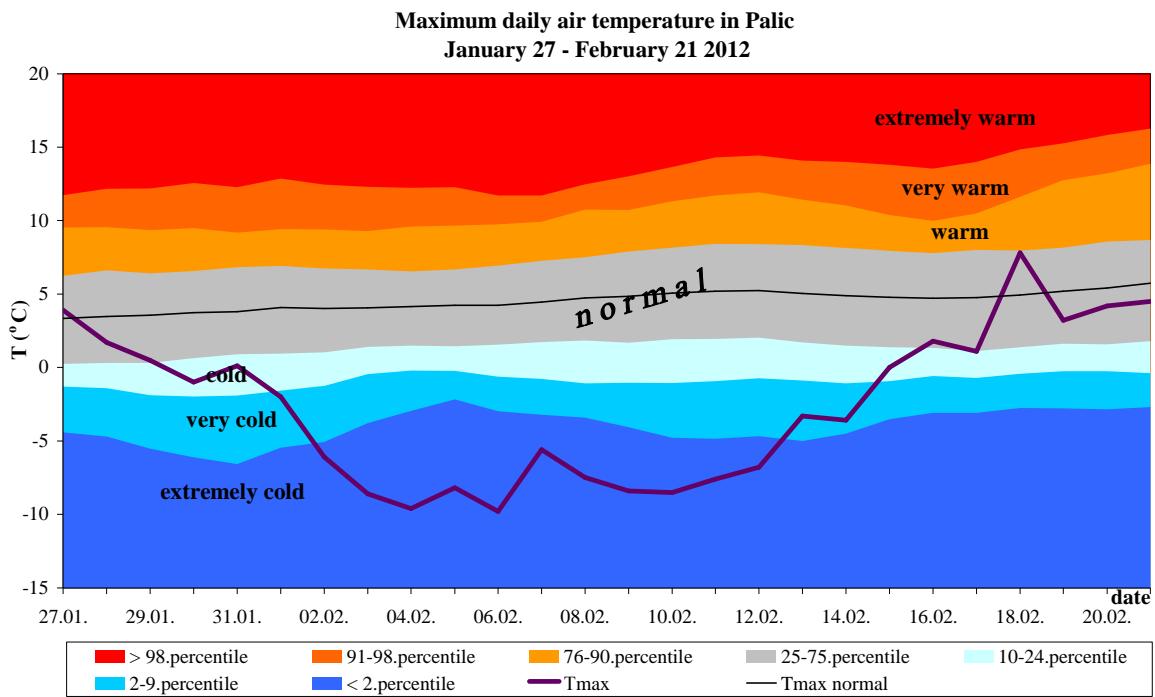


Figure 15: Diagram of the maximum air temperature in Palic between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

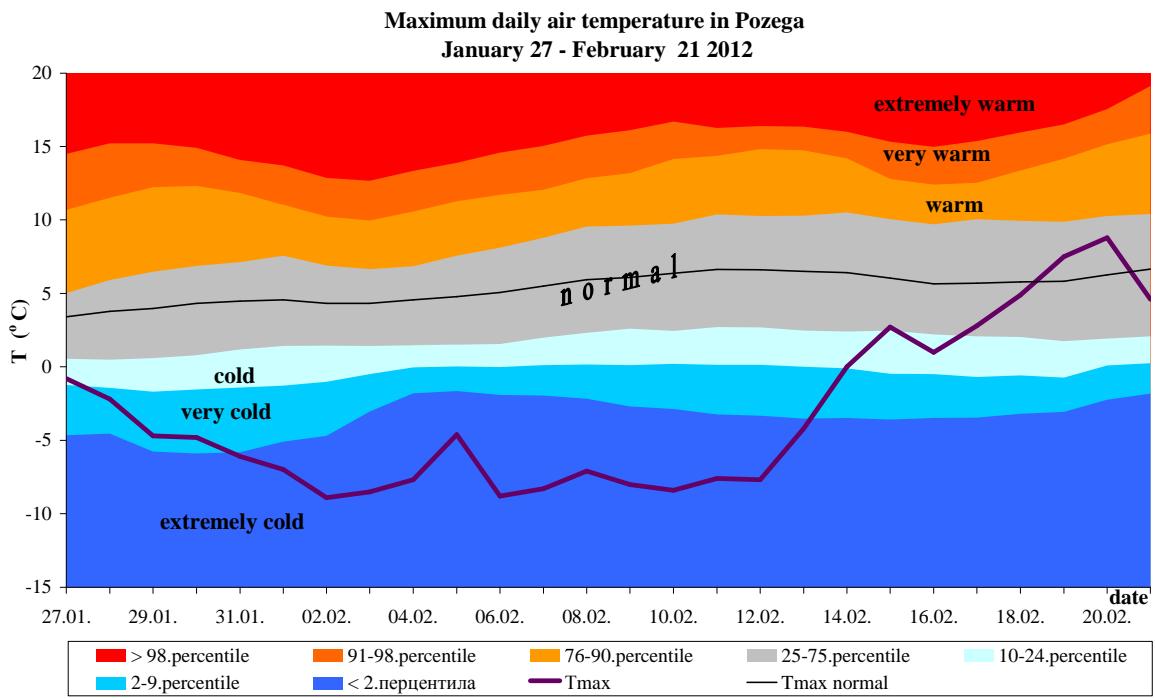


Figure 16: Diagram of the maximum air temperature in Pozega between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

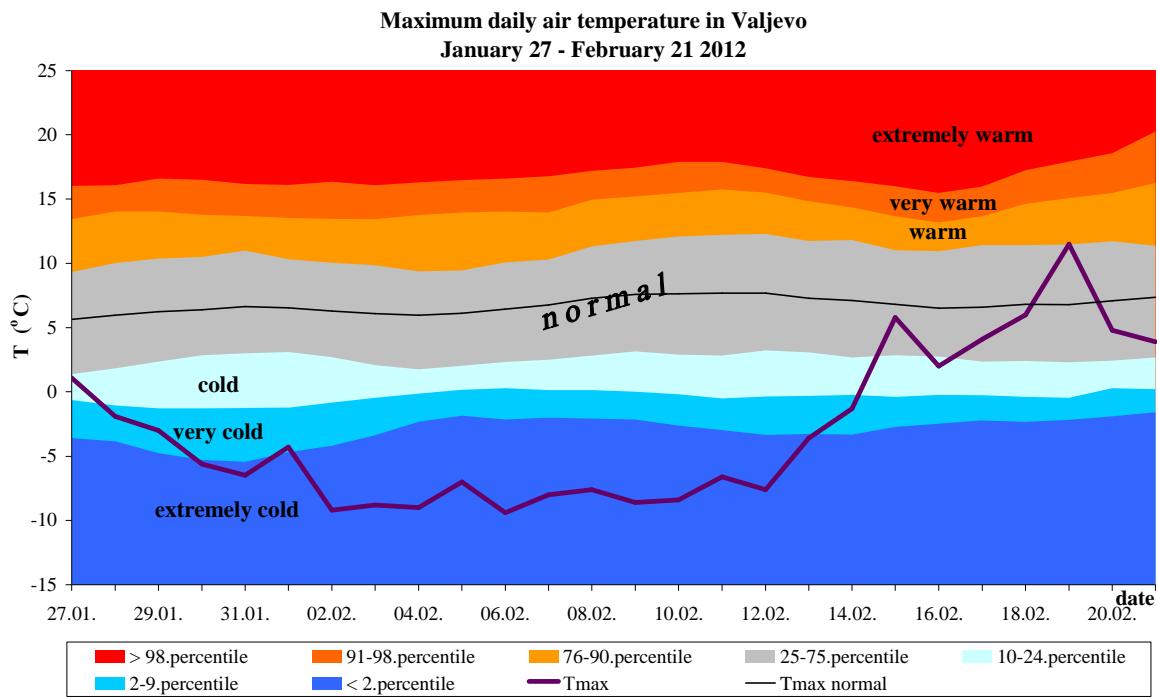


Figure 17: Diagram of the maximum air temperature in Valjevo between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

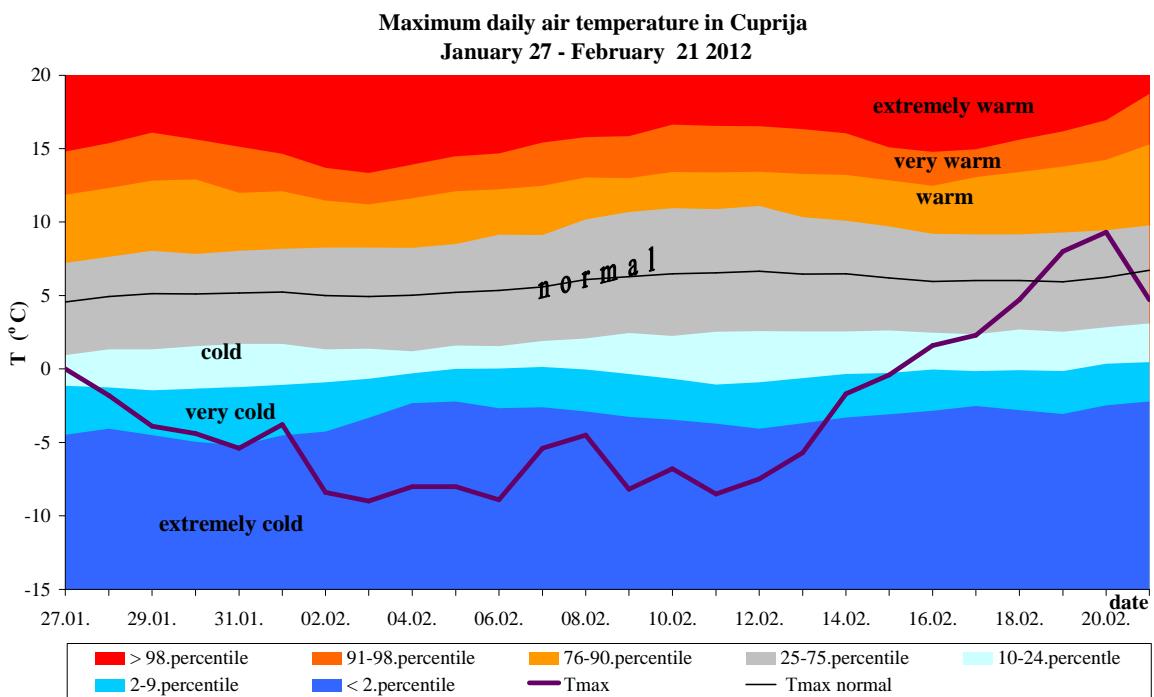


Figure 19: Diagram of the maximum air temperature in Cuprija between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

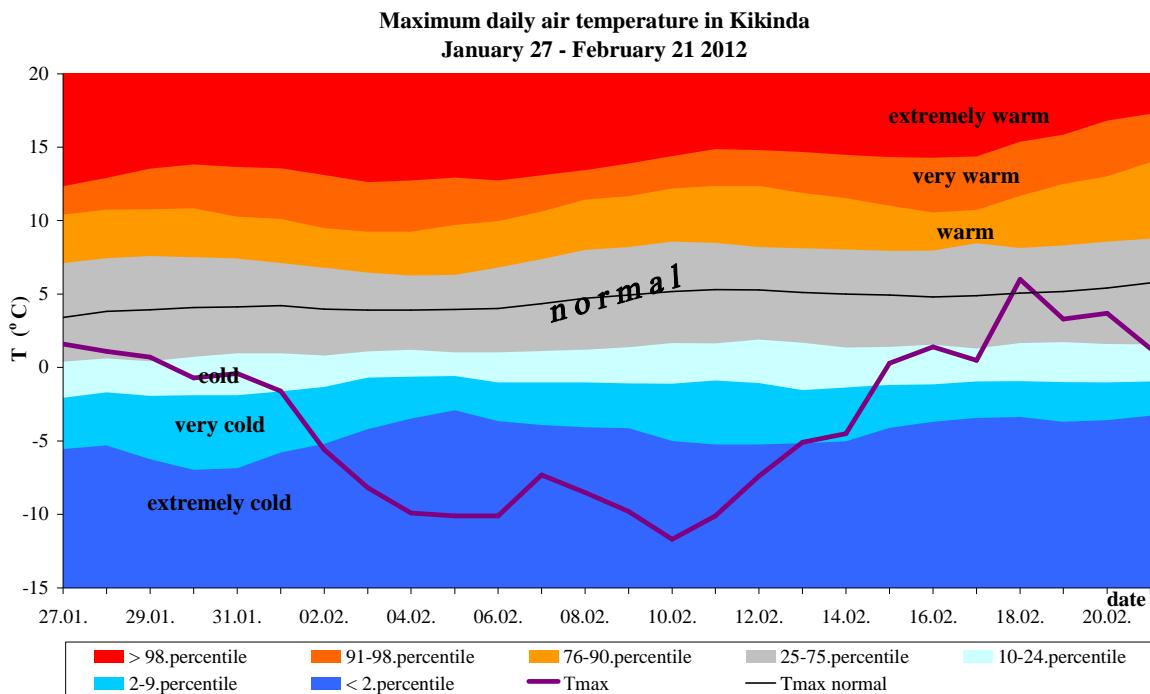


Figure 20: Diagram of the maximum air temperature in Kikinda between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

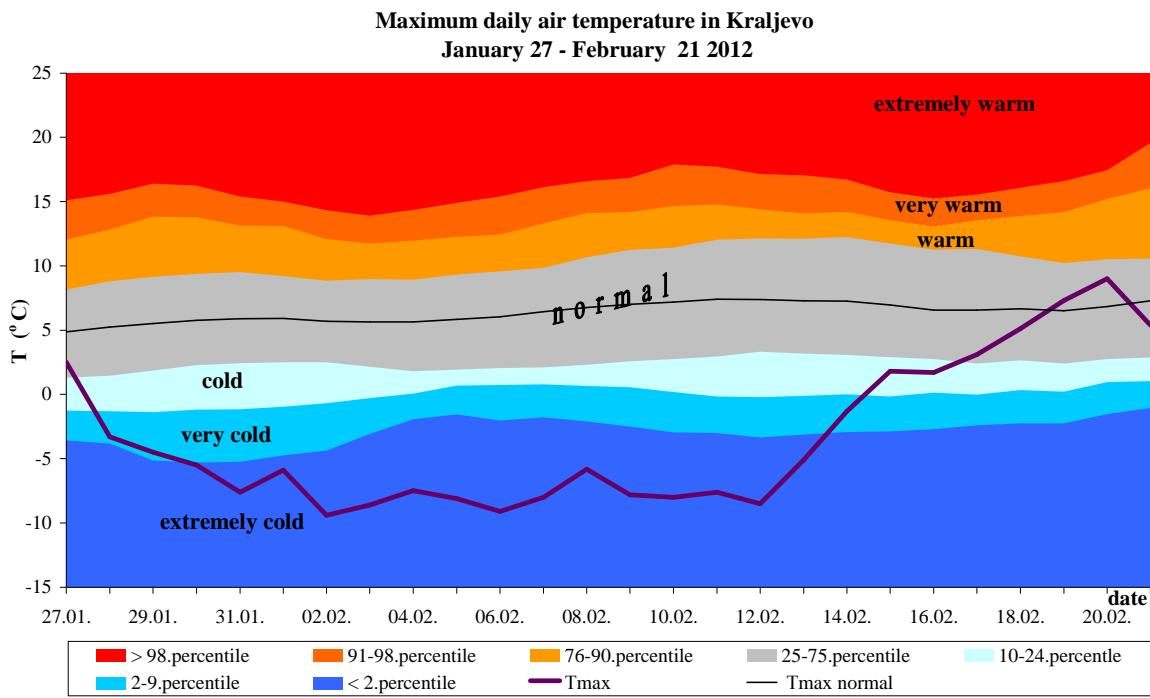


Figure 21: Diagram of the maximum air temperature in Kraljevo between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

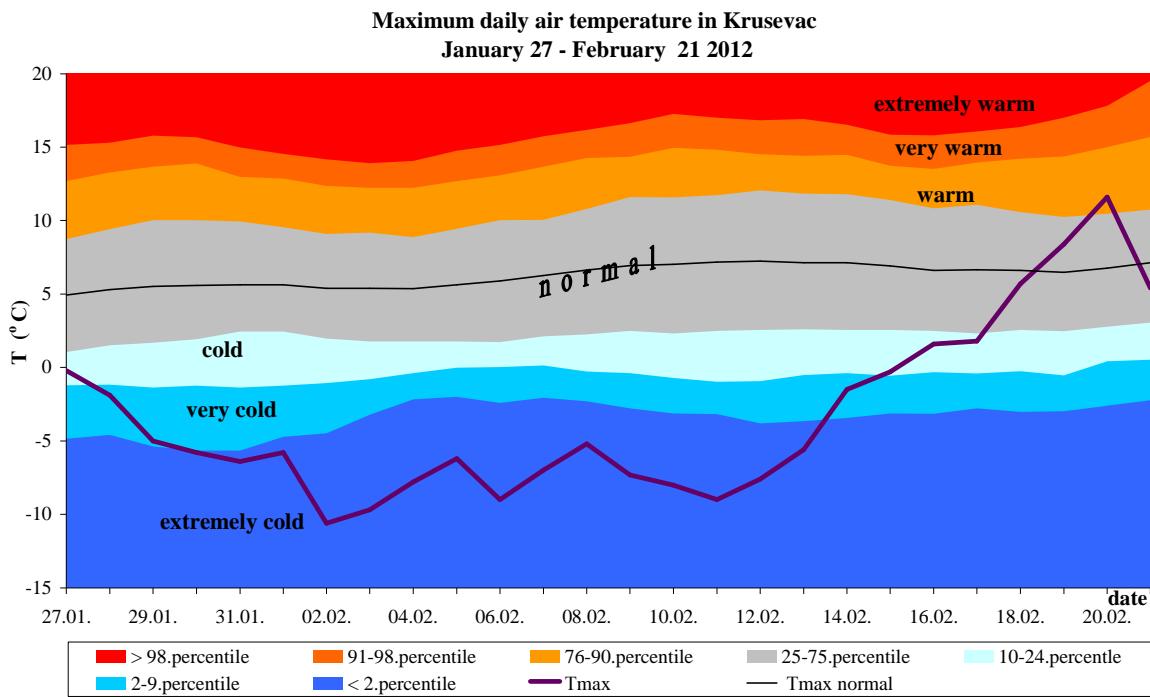


Figure 22: Diagram of the maximum air temperature in Krusevac between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

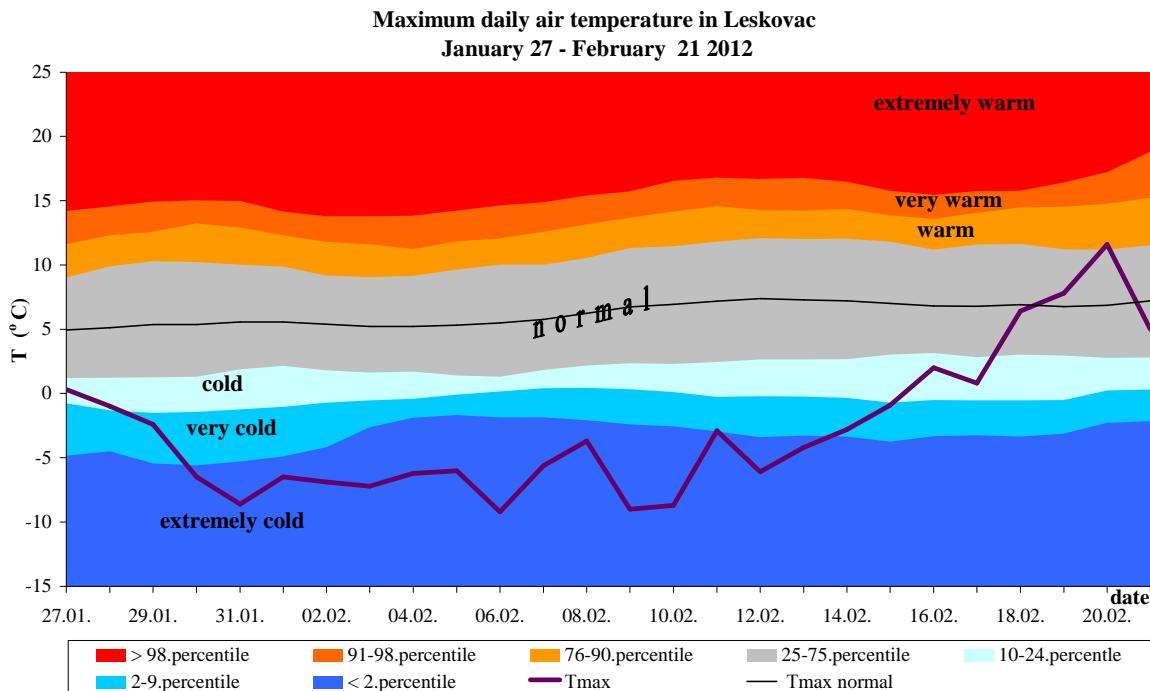


Figure 23: Diagram of the maximum air temperature in Leskovac between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

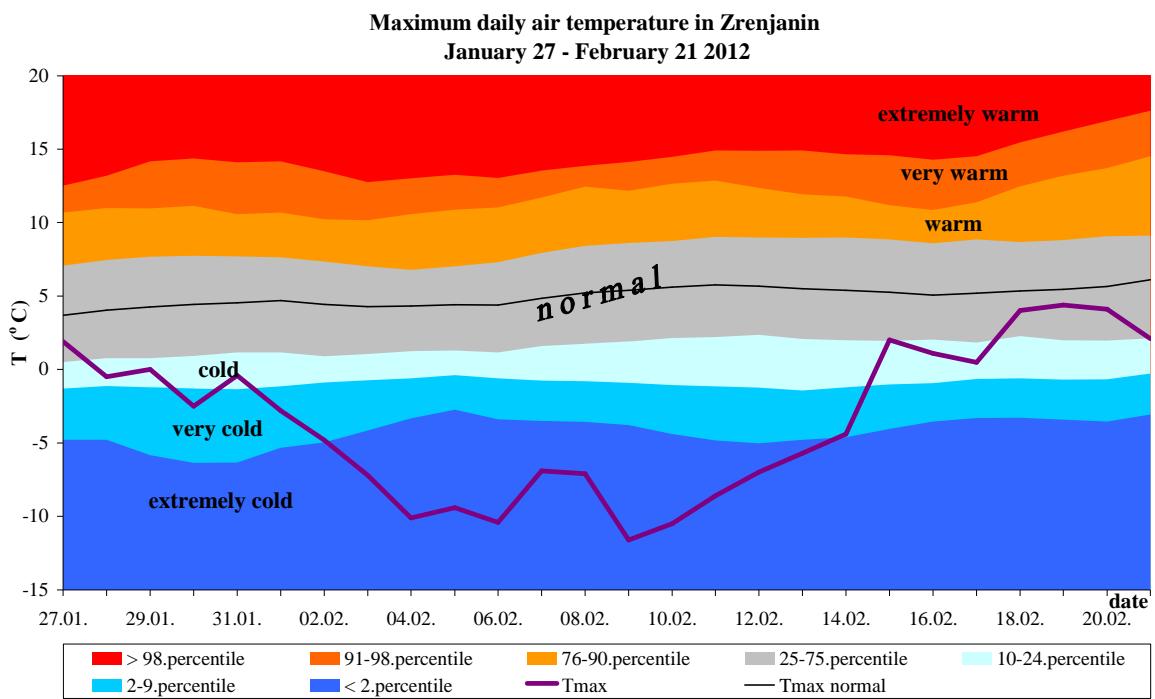


Figure 25: Diagram of the maximum air temperature in Zrenjanin between January 27 and February 21 2012 (red line) and climate normal (1961-90 base period)

Appendix 4

Chart 1: Number of ice days observed at the meteorological stations in Serbia between January 27 and February 21 2012

Station	Continuously			Separately		Total 27.1- 21.2.2012.
	Number of days	from	to	Number of days	Date	Number of days
Palic	17	30.1.	15.2.			17
Sombor	17	29.1.	14.2.			17
Kikinda	17	30.1.	15.2.	1	17.2.	18
Becej	16	30.1.	14.2.			16
Zrenjanin	16	30.1.	14.2.	1	28.1.	17
Novi Sad	16	30.1.	14.2.			16
S.Mitrovica	16	30.1.	14.1.	1	28.1.	17
Zlatibor	22	27.1.	17.2.			22
B.Karlovac	18	28.1.	14.2.	1	17.2.	19
Belgrade	17	29.1.	14.2.			17
Loznica	17	29.1.	14.2.			17
Valjevo	18	28.1.	14.2.			18
V.Gradiste	18	28.1.	14.2.			18
S.Palanka	18	28.1.	14.2.			18
Kragujevac	18	28.1.	14.2.			18
Kraljevo	19	28.1.	15.2.			19
Pozega	18	27.1.	13.2.			18
Cuprija	19	28.1.	15.2.			19
Krusevac	20	27.1.	15.2.			20
Negotin	18	27.1.	13.2.			18
Zajecar	18	27.1.	13.2.			18
Kopaonik	24	27.1.	19.2.			24
Sjenica	7	28.1.	3.2.			20
	13	5.2.	17.2.			
Crni Vrh	23	27.1.	18.2.			23
Nis	20	27.1.	15.2.			20
Vranje	15	27.1.	10.2.	1	17.2.	20
	4	12.2.	15.2.			
Dimitrovgrad	8	27.1.	3.2.	1	17.2.	18
	7	5.2.	11.2.			
	2	13.2.	14.2.			
Leskovac	19	28.1.	15.2.			19
Kursumlja	19	27.1.	14.2.			19
Vrsac	15	1.2.	15.2.	1	28.1.	18
				1	30.1.	
Surcin	18	28.1.	14.2.			18

Chart 2: Number of consecutive ice days ($T_{max} < 0^{\circ}\text{C}$) in Serbia between January 27 and February 21 2012 and the greatest number of consecutive ice days for the historical period

Station	Altitude (m)	Number of consecutive ice days 27.1-21.2.2012.	Date of consecutive ice days	Tmean of consecutive ice days	Historical period	Historical maximum of consecutive ice days	Tmin of historical maximum of consecutive ice days	Date of historical maximum of consecutive ice days
Palic	102	17	30.1-15.2.2012.	-9,7	1949-2011	27	-9,4	26.12.1984-21.1.1985.
						22	-12,6	12.1.1963-2.2.1963.
						20	-11,8	5.1.1964-24.1.1964.
						18	-11,0	23.1.1954-9.2.1954.
						18	-8,4	27.12.1968-13.1.1969.
						18	-4,6	19.12.2007-5.1.2008.
						18	-5,7	27.12.2008-13.1.2009.
						17	-6,6	6.1.1966-22.1.1966.
						17	-7,0	23.12.1992-8.1.1993.
Sombor	88	17	29.1-14.2.2012.	-10,0	1950-2011	30	-10,0	28.1.1956-26.2.1956.
						27	-9,3	26.12.1984-21.1.1985.
						25	-11,7	12.1.1963-5.2.1963.
						20	-11,0	23.1.1954-11.2.1954.
						20	-3,9	17.12.2007-5.1.2008.
						19	-10,2	4.1.1964-22.1.1964.
						18	-9,1	27.12.1968-13.1.1969.
						17	-10,2	20.1.1950-5.2.1950.
						17	-6,5	6.1.1966-22.1.1966.
Novi Sad	84	16	30.1-14.2.2012.	-10,5	1949-2011	29	-10,4	29.1.1956-26.2.1956.
						27	-8,9	25.12.1984-20.1.1985.
						22	-13,4	12.1.1963-2.2.1963.
						22	-10,4	04.1.1964-25.1.1964.
						21	-11,1	23.1.1954-12.2.1954.
						19	-6,4	27.12.2008-14.1.2009.
						18	-9,9	27.12.1968-13.1.1969.
						17	-6,7	6.1.1966-22.1.1966.
						16	-6,5	23.12.1992-7.1.1993.

						16	-4,0	20.12.2007-4.1.2008.
Becej	75	16	30.1-14.2.2012.	-10,1	1949-2011	26	-10,4	26.12.1984-20.1.1985.
					22	-11,5	29.1.1956-19.2.1956.	
					22	-12,6	12.1.1963-2.2.1963.	
					22	-11,0	4.1.1964-25.1.1964.	
					18	-8,5	27.12.1968-13.1.1969.	
					17	-9,4	20.1.1950-5.2.1950.	
					17	-6,4	6.1.1966-22.1.1966.	
					17	-3,9	20.12.2007-5.1.2008.	
Zrenjanin	80	16	30.1-14.2.2012.	-10,6	1949-2011	26	-9,9	26.12.1984-20.1.1985.
					22	-12,9	12.1.1963-2.2.1963.	
					22	-10,2	4.1.1964-25.1.1964.	
					21	-12,0	29.1.1956-18.2.1956.	
					20	-11,6	23.1.1954-11.2.1954.	
					19	-8,5	26.12.1968-13.1.1969.	
					19	-7,0	26.12.2008-13.1.2009.	
					18	-4,1	19.12.2007-5.1.2008.	
					17	-9,5	20.1.1950-5.2.1950.	
					17	-8,8	11.2.1985-27.2.1985.	
					17	-6,7	23.12.1992-8.1.1993.	
Kikinda	81	17	30.1-15.2.2012.	-10,2	1949-2011	27	-10,4	26.12.1984-21.1.1985.
					22	-13,2	12.1.1963-2.2.1963.	
					22	-11,5	4.1.1964-25.1.1964.	
					21	-12,4	29.1.1956-18.2.1956.	
					20	-11,0	23.1.1954-11.2.1954.	
					20	-4,1	17.12.2007-5.1.2008.	
					18	-6,7	27.12.2008-13.1.2009.	
					17	-8,1	20.1.1950-5.2.1950.	
					17	-8,6	28.12.1968-13.1.1969.	
					17	-9,1	11.2.1985-27.2.1985.	
					17	-6,7	23.12.1992-8.1.1993.	
Vrsac	84	15	1.2-15.2.2012.	-10,4	1949-2011	22	-13,3	12.1.1963-2.2.1963.
					22	-9,5	4.1.1964-25.1.1964.	
					19	-10,3	23.1.1954-10.2.1954.	

						17	-7,9	27.12.1968-12.1.1969.
						17	-9,5	28.12.1984-13.1.1985.
B.Karlovac	89	18	28.1-14.2.2012.	-9,8	1986-2011	20	-3,9	18.12.2007-6.1.2008.
						19	-7,3	26.12.2008-13.1.2009.
						18	-6,1	23.12.1992-9.1.1993.
Loznica	121	17	29.1-14.2.2012.	-9,6	1952-2011	25	-9,9	12.1.1963-5.2.1963.
						25	-6,3	29.12.1963-22.1.1964.
						23	-8,3	28.12.1984-19.1.1985.
						22	-10,8	29.1.1956-19.2.1956.
						19	-10,1	23.1.1954-10.2.1954.
S.Mitrovica	81	16	30.1-14.2.2012.	-10,1	1949-2011	26	-11,1	12.1.1963-6.2.1963.
						25	-8,4	27.12.1984-20.1.1985.
						22	-11,4	29.1.1956-19.2.1956.
						20	-10,2	23.1.1954-11.2.1954.
						19	-8,7	4.1.1964-22.1.1964.
						19	-6,4	27.12.2008-14.1.2009.
						17	-7,4	28.12.1968-13.1.1969.
						16	-7,9	20.1.1950-4.2.1950.
						16	-6,0	6.1.1966-21.1.1966.
						16	-3,7	20.12.2007-4.1.2008.
Valjevo	176	18	28.1-14.2.2012.	-10,0	1950-2011	22	-10,9	29.1.1956-19.2.1956.
						22	-11,3	12.1.1963-2.2.1963.
						18	-10,1	24.1.1954-10.2.1954.
						18	-7,5	5.1.1964-22.1.1964.
Belgrade	132	17	29.1-14.2.2012.	-8,3	1889-2011	33	-10,4	24.12.1892-25.1.1893.
						24	-7,1	28.12.1984-20.1.1985.
						22	-10,6	12.1.1963-2.2.1963.
						22	-6,7	2.1.1964-23.1.1964.
						21	-9,8	29.1.1956-18.2.1956.
						20	-4,9	26.12.2008-14.1.2009.
						18	-6,7	28.12.1895-14.1.1896.
						18	-7,2	6.1.1935-23.1.1935.
						18	-9,5	24.1.1954-10.2.1954.
						17	-9,9	02.1.1901-18.1.1901.

						17	-12,0	7.2.1929-23.2.1929.
Kragujevac	185	18	28.1-14.2.2012.	-10,5	1949-2011	21	-11,9	13.1.1963-2.2.1963.
						20	-11,3	29.1.1956-17.2.1956.
						18	-10,5	24.1.1954-10.2.1954.
						18	-3,6	19.12.2007-5.1.2008.
S.Palanka	122	18	28.1-14.2.2012.	-9,9	1950-2011	22	-12,5	12.1.1963-2.2.1963.
						21	-11,5	29.1.1956-18.2.1956.
						21	-8,0	31.12.1984-20.1.1985.
						19	-8,1	5.1.1964-23.1.1964.
						18	-10,4	24.1.1954-10.2.1954.
						18	-3,6	19.12.2007-5.1.2008.
V.Gradiste	82	18	28.1-14.2.2012.	-8,3	1949-2011	21	-11,7	13.1.1963-2.2.1963.
						21	-8,1	1.1.1985-21.1.1985.
						20	-8,6	24.1.1954-12.2.1954.
						18	-8,2	6.1.1964-23.1.1964.
Crni Vrh	1037	23	27.1-18.2.2012.	-13,8	1981-2011	32	-8,0	28.12.1995-28.1.1996.
						25	-8,6	31.1.2003-24.2.2003.
						23	-8,2	26.1.1986-17.2.1986.
Negotin	42	18	27.1-13.2.2012.	-10,8	1949-2011	22	-10,1	24.1.1954-14.2.1954.
						21	-11,4	13.1.1963-2.2.1963.
						19	-12,9	20.1.1950-7.2.1950.
Zlatibor	1028	22	27.1-17.2.2012.	-12,0	1950-2011	28	-9,0	22.12.1984-18.1.1985.
						22	-14,1	12.1.1963-2.2.1963.
Sjenica	1038	7	28.1-3.2.2012.	-12,5	1946-2011	24	-8,2	21.12.1953-13.1.1954.
		13	5.2-17.2.2012.	-10,8		21	-14,9	13.1.1963-2.2.1963.
						20	-10,5	25.12.1968-13.1.1969.
						19	-10,8	25.12.1946-12.1.1947.
						19	-8,6	1.1.1980-19.1.1980.
						19	-7,9	6.2.2003-24.2.2003.
						19	-10,1	24.1.2005-11.2.2005.
						17	-13,5	26.1.1956-11.2.1956.
						17	-9,1	31.12.2001-16.1.2002.
						15	-12,6	4.2.1959-18.2.1959.
						15	-14,3	8.1.1967-22.1.1967.

						15	-8,8	17.1.1981-31.1.1981.
						15	-9,0	7.12.2001-21.12.2001.
Pozega	310	18	27.1-13.2.2012.	-10,3	1961-2011	22	-9,4	25.12.1984-15.1.1985.
						21	-13,3	13.1.1963-2.2.1963.
Kraljevo	215	19	28.1-15.2.2012.	-10,0	1949-2011	21	-11,1	13.1.1963-2.2.1963.
						20	-9,5	23.1.1954-11.2.1954.
Kopaonik	1710	24	27.1-19.2.2012.	-9,6	1980-2011	32	-7,6	10.1.2010-10.2.2010.
						29	-10,5	21.2.1987-21.3.1987.
						27	-9,3	14.2.1993-12.3.1993.
						27	-10,1	29.1.2003-24.2.2003.
						25	-9,2	5.12.2001-29.12.2001.
Kursumlja	382	19	27.1-14.2.2012.	-9,1	1961-2011	21	-11,1	13.1.1963-2.2.1963.
Krusevac	166	20	27.1-15.2.2012.	-9,8	1949-2011	21	-12,4	13.1.1963-2.2.1963.
Cuprija	123	19	28.1-15.2.2012.	-9,6	1961-2011	21	-12,1	13.1.1963-2.2.1963.
Nis	201	20	27.1-15.2.2012.	-8,2	1941-2011	21	-10,9	13.1.1963-2.2.1963.
Leskovac	230	19	28.1-15.2.2012.	-9,4	1961-2011	21	-12,4	13.1.1963-2.2.1963.
Zajecar	144	18	27.1-13.2.2012.	-11,6	1949-2011	23	-8,8	28.12.1984-19.1.1985.
						22	-10,8	24.1.1954-14.2.1954.
						22	-11,2	13.1.1963-3.2.1963.
						21	-6,8	28.12.1968-17.1.1969.
						19	-11,9	20.1.1950-7.2.1950.
Dimitrovgrad	450	8	27.1-3.2.2012.	-8,0	1950-2011	20	-12,3	13.1.1963-1.2.1963.
		7	5.2-11.2.2012.	-8,7		19	-9,4	23.1.1954-10.2.1954.
						16	-5,5	31.12.1953-15.1.1954.
						15	-7,7	28.1.2005-11.2.2005.
Vranje	432	15	27.1-10.2.2012.	-7,0	1949-2011	16	-9,8	23.1.1954-7.2.1954.

Appendix 5

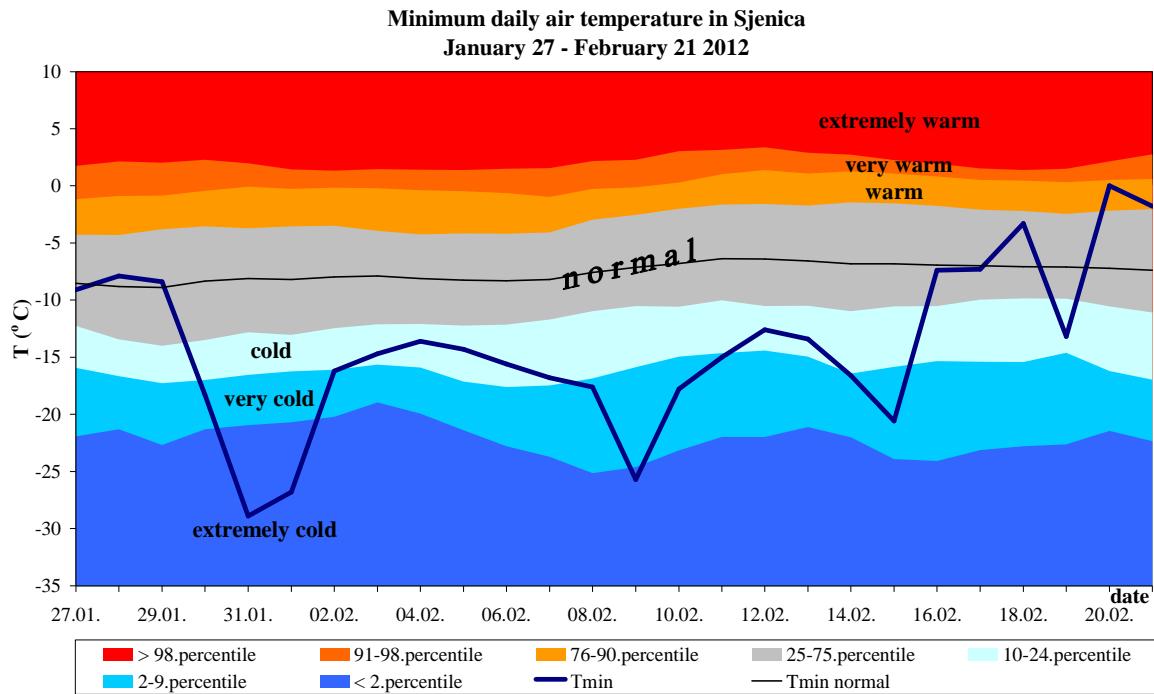


Figure 1: Diagram of the minimum air temperature in Sjenica during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

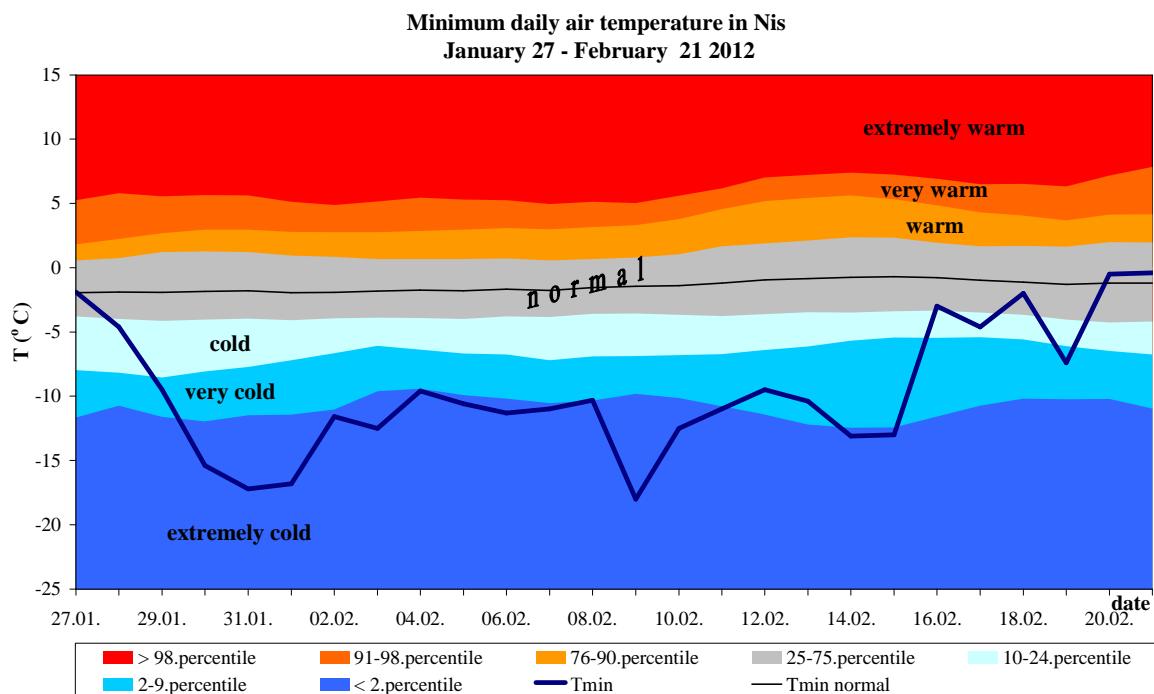


Figure 2: Diagram of the minimum air temperature in Nis during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

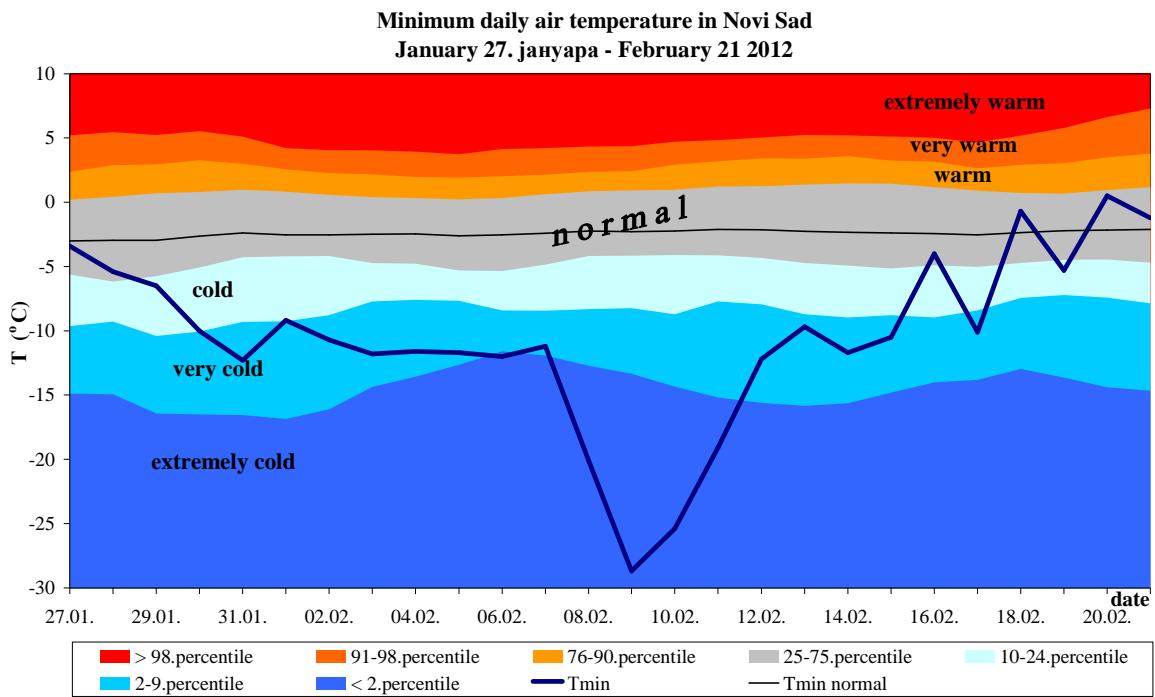


Figure 3: Diagram of the minimum air temperature in Novi Sad during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

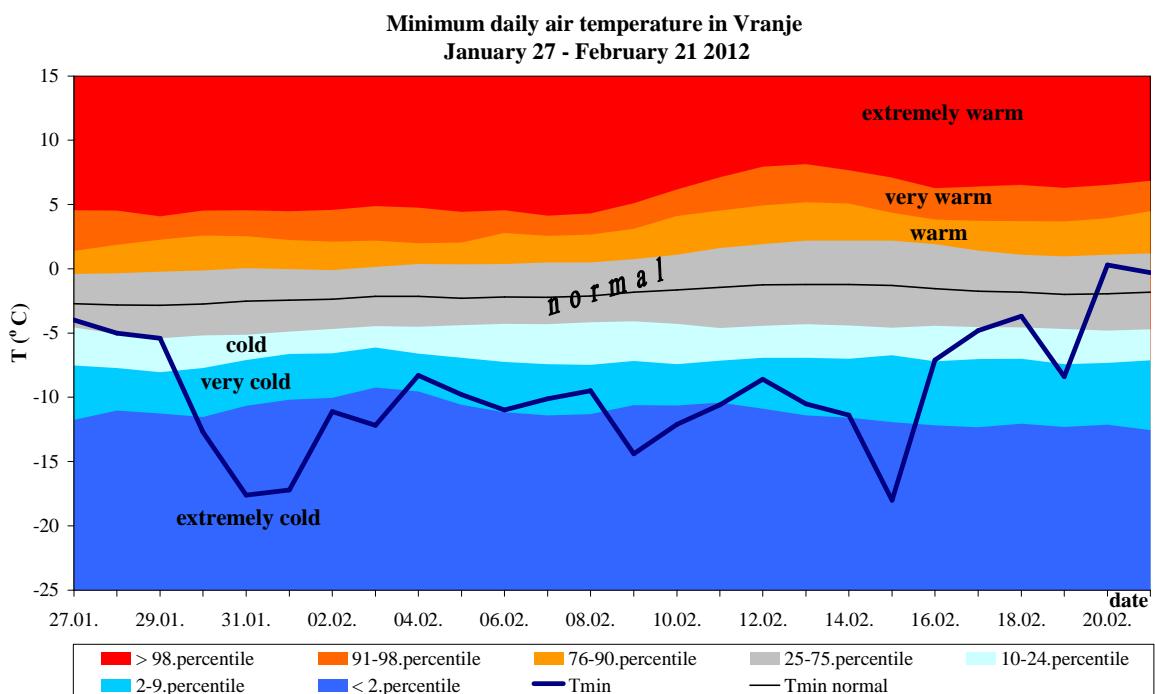


Figure 4: Diagram of the minimum air temperature in Vranje during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

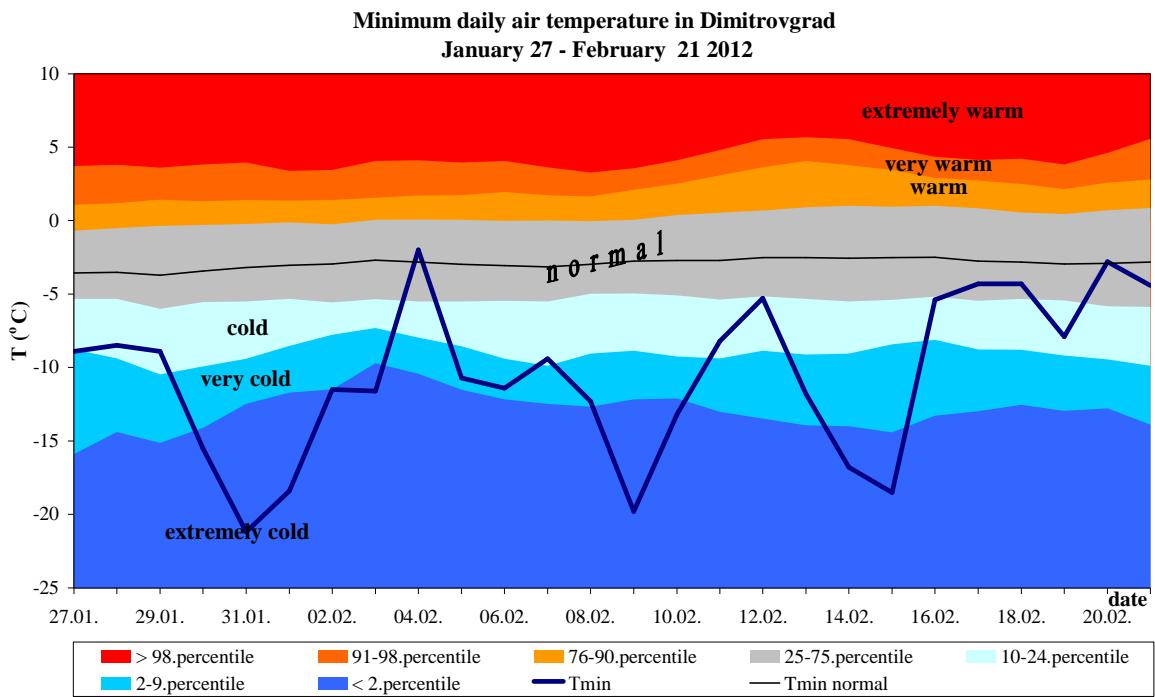


Figure 5: Diagram of the minimum air temperature in Dimitrovgrad during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

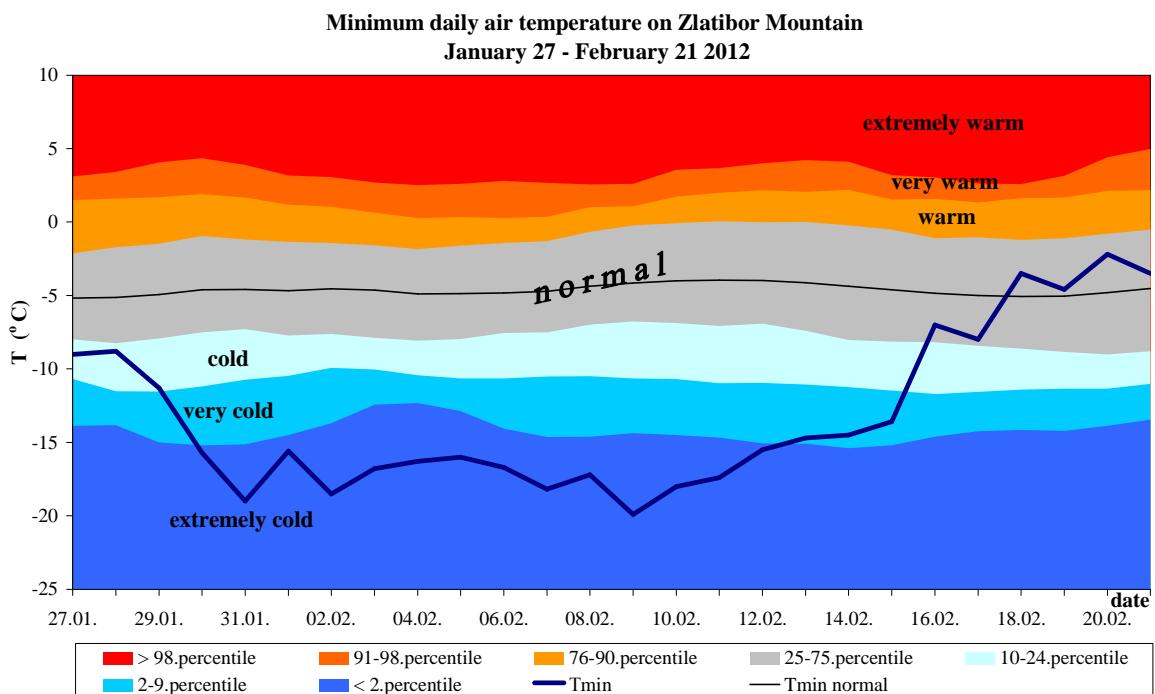


Figure 6: Diagram of the minimum air temperature on Zlatibor Mountain during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

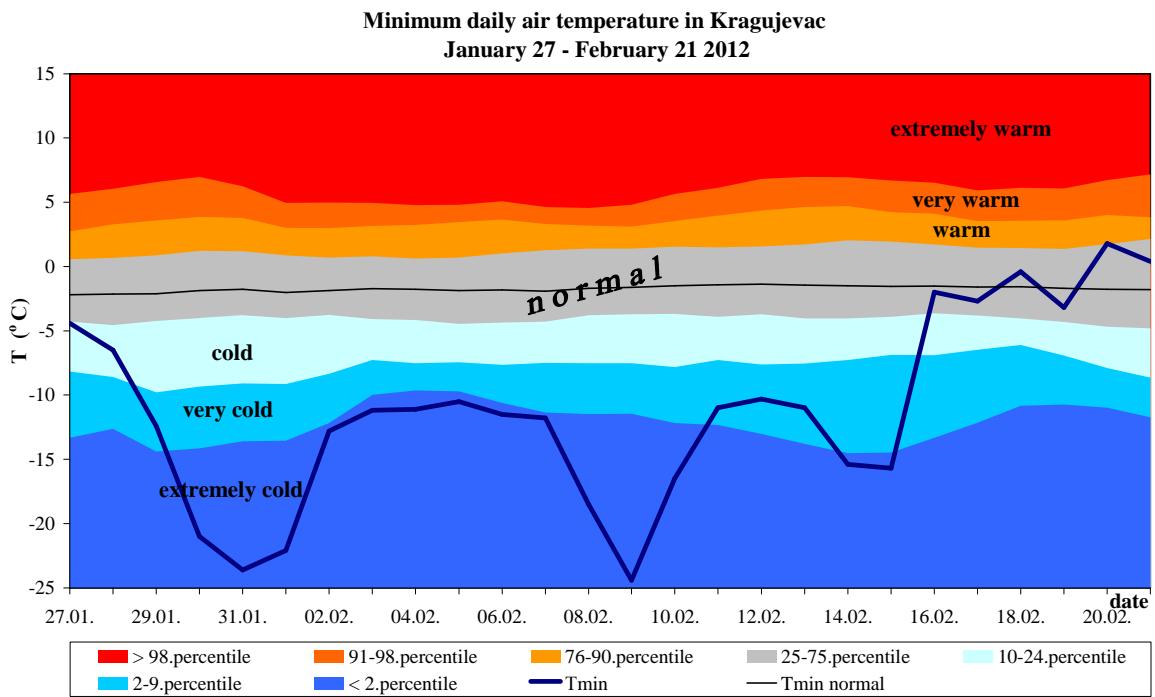


Figure 7: Diagram of the minimum air temperature in Kragujevac during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

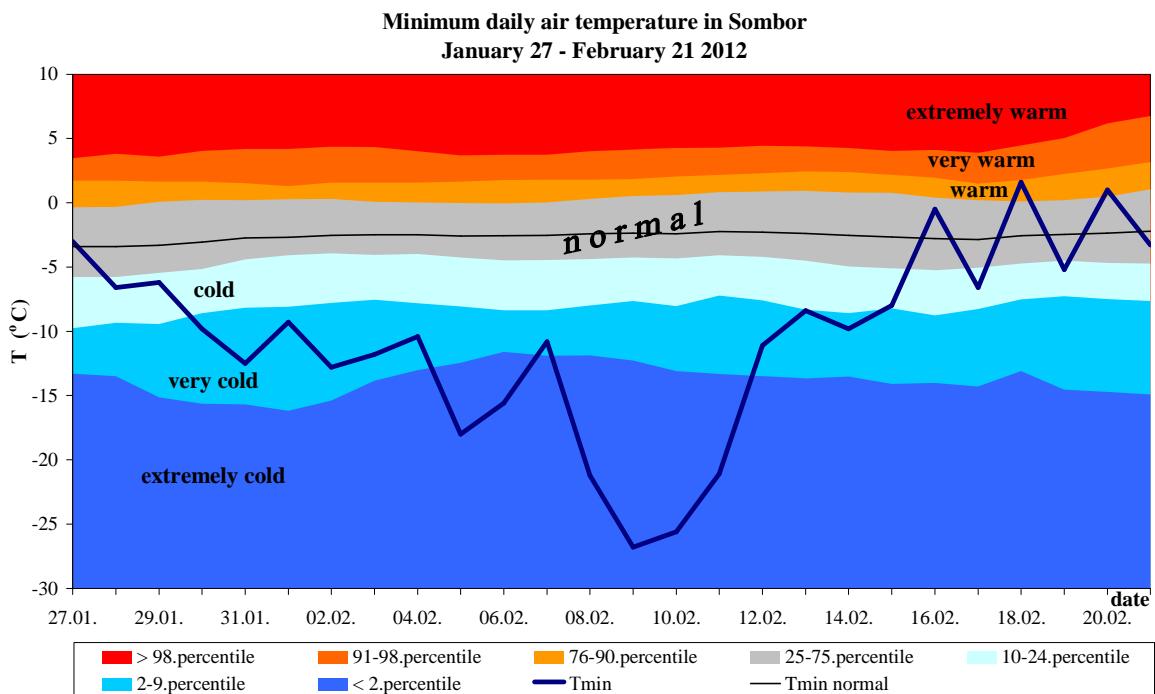


Figure 8: Diagram of the minimum air temperature in Sombor during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

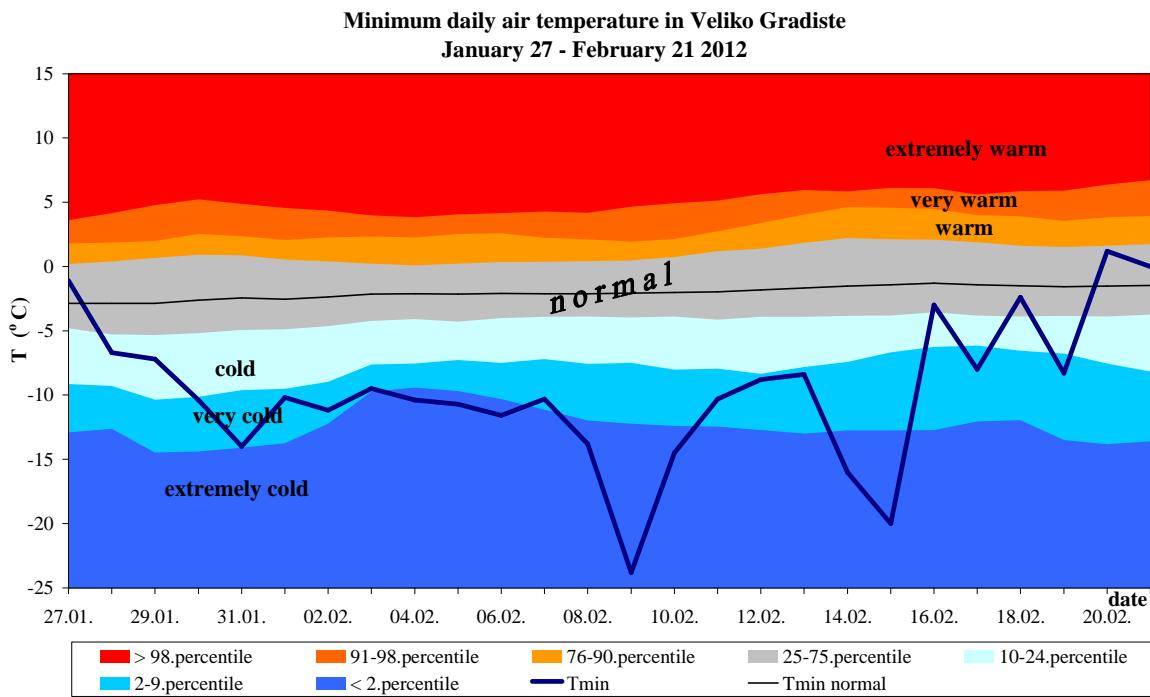


Figure 9: Diagram of the minimum air temperature in Veliko Gradiste during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

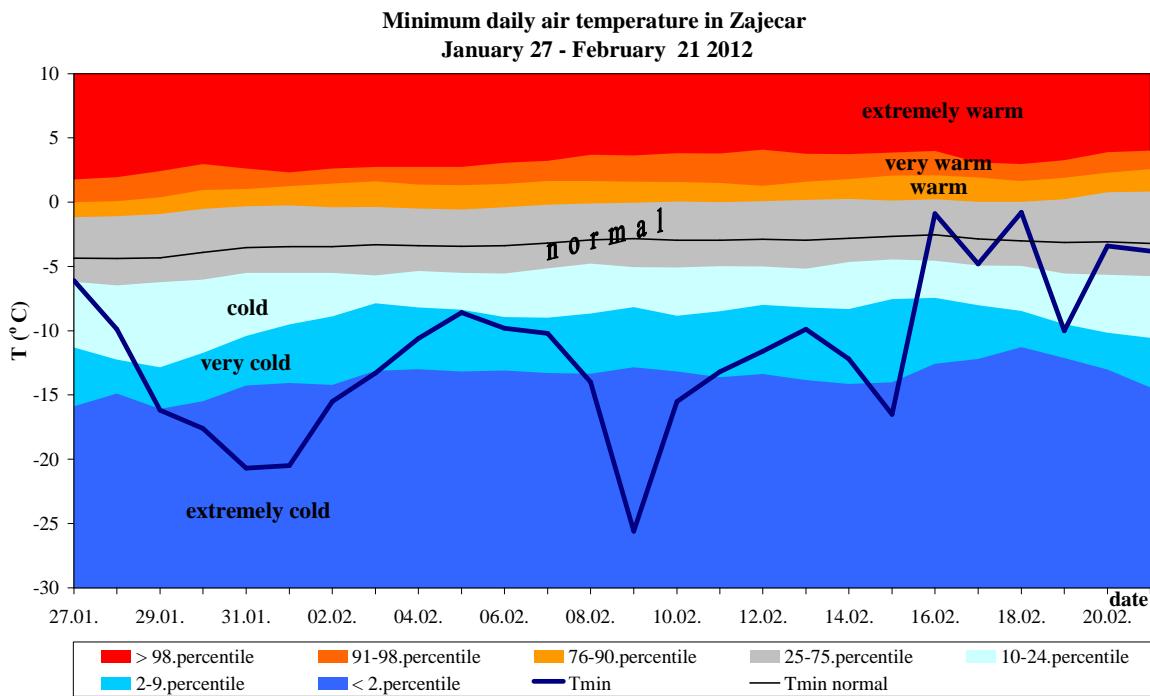


Figure 10: Diagram of the minimum air temperature in Zajecar during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

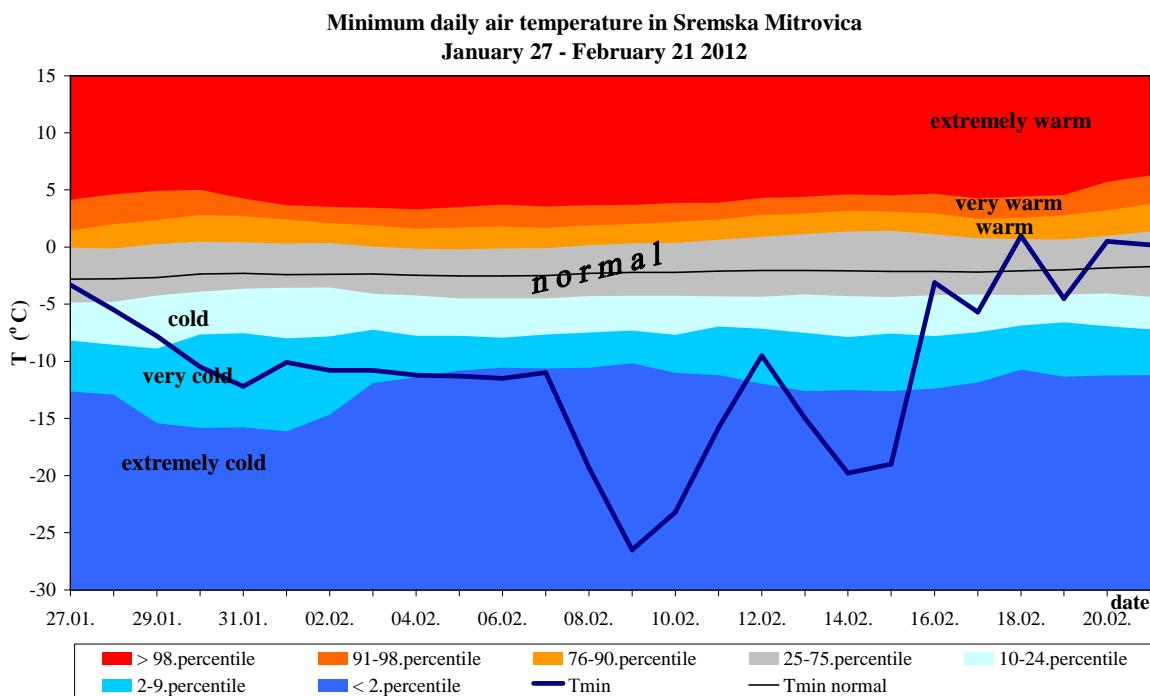


Figure 11: Diagram of the minimum air temperature in Sremska Mitrovica during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

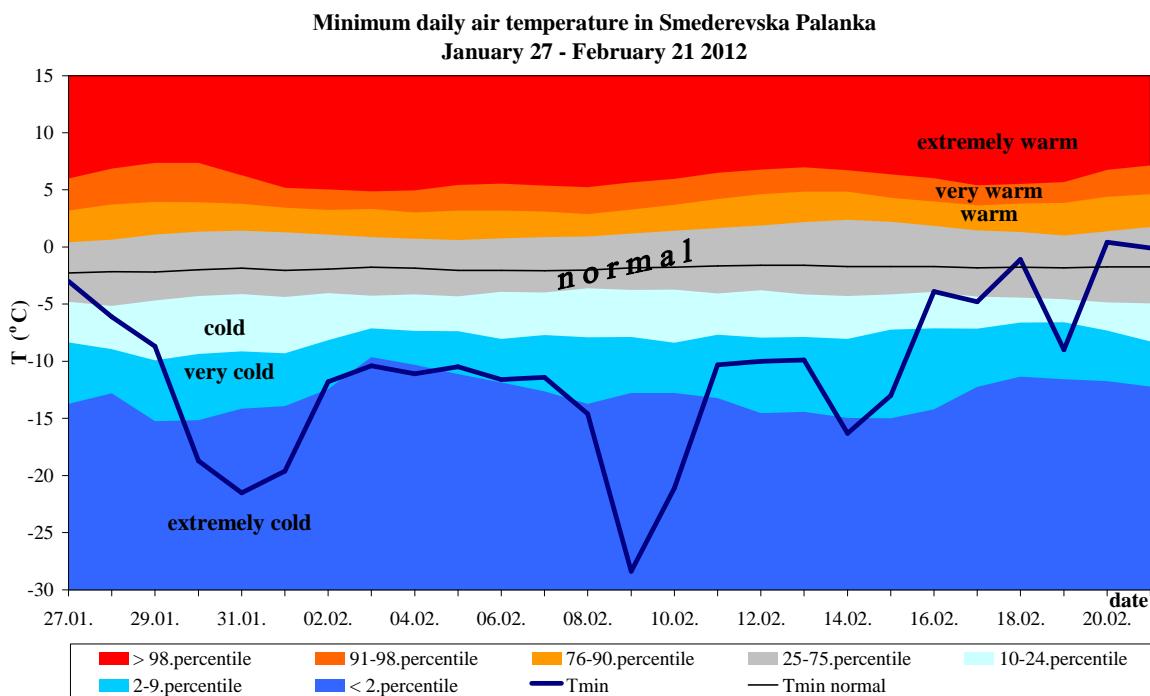


Figure 12: Diagram of the minimum air temperature in Smederevska Palanka during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

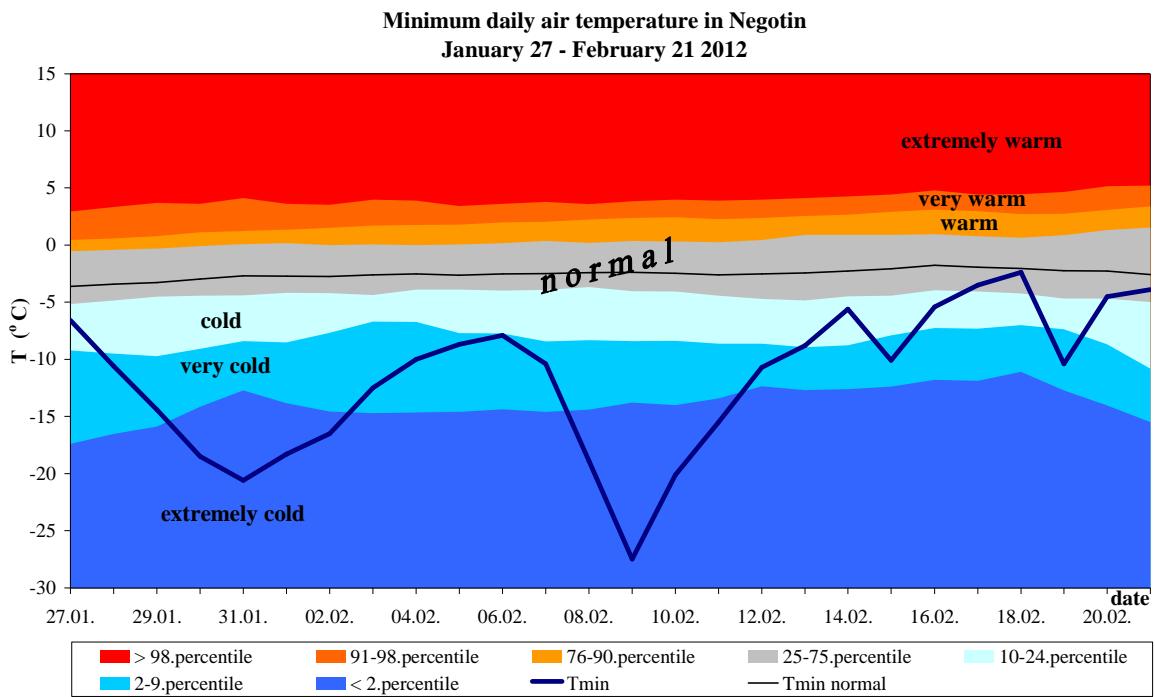


Figure 13: Diagram of the minimum air temperature in Negotin during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

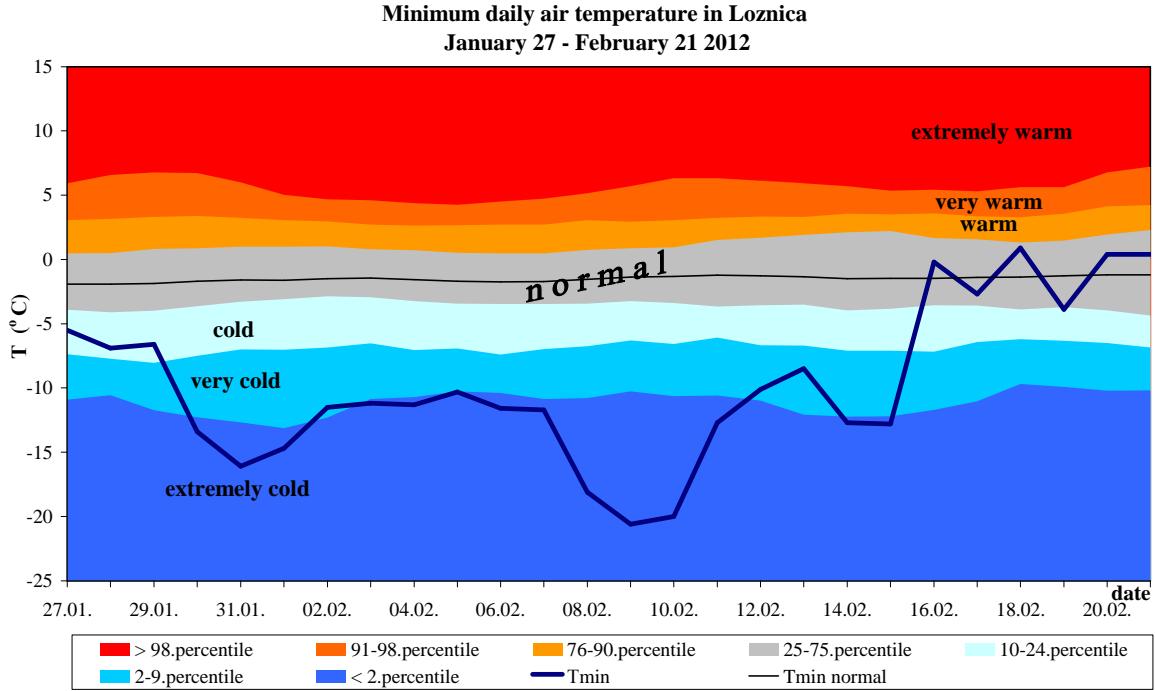


Figure 14: Diagram of the minimum air temperature in Loznica during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

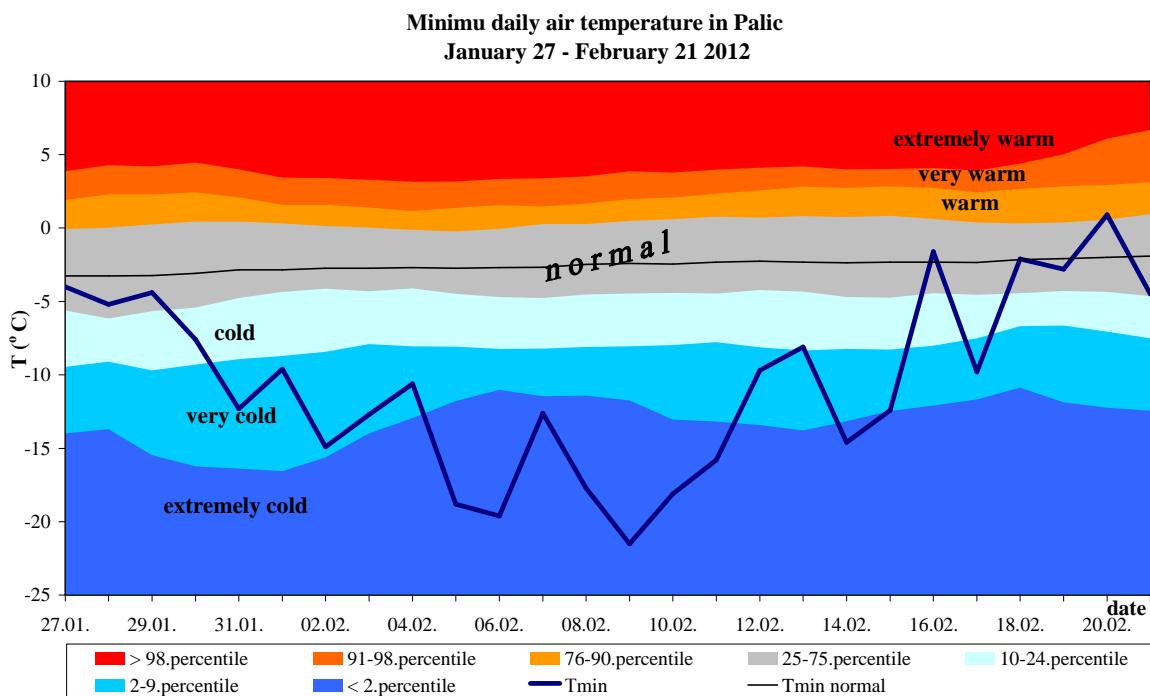


Figure 15: Diagram of the minimum air temperature in Palic during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

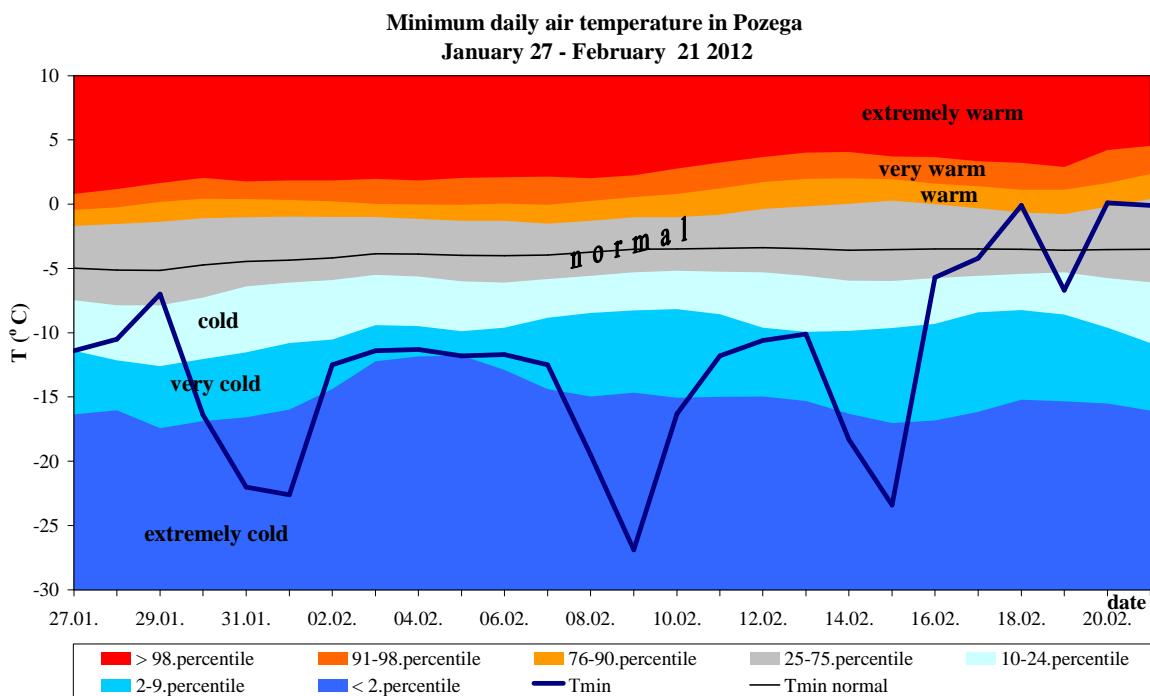


Figure 16: Diagram of the minimum air temperature in Pozega during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

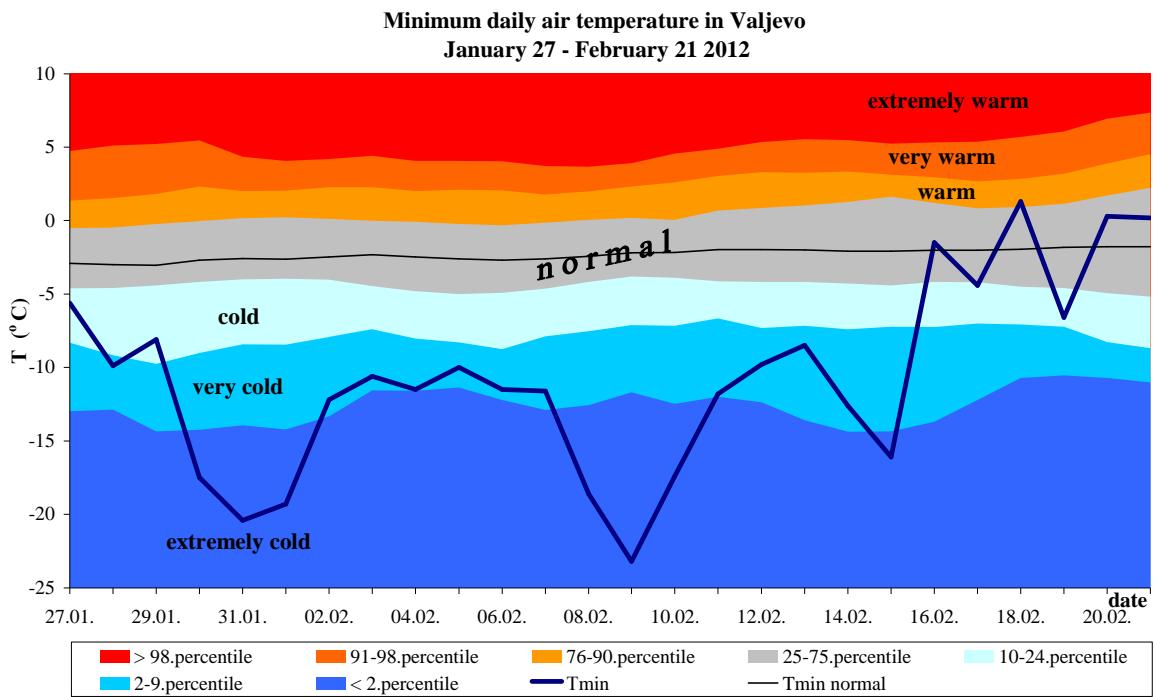


Figure 17: Diagram of the minimum air temperature in Valjevo during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

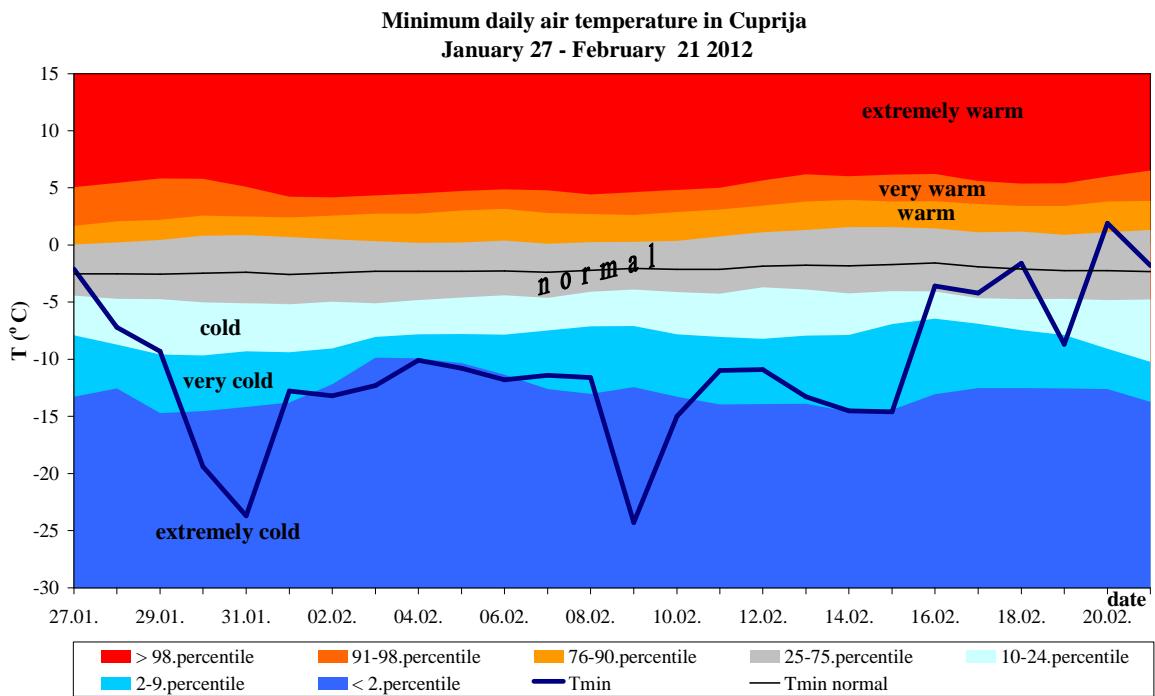


Figure 19: Diagram of the minimum air temperature in Cuprija during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

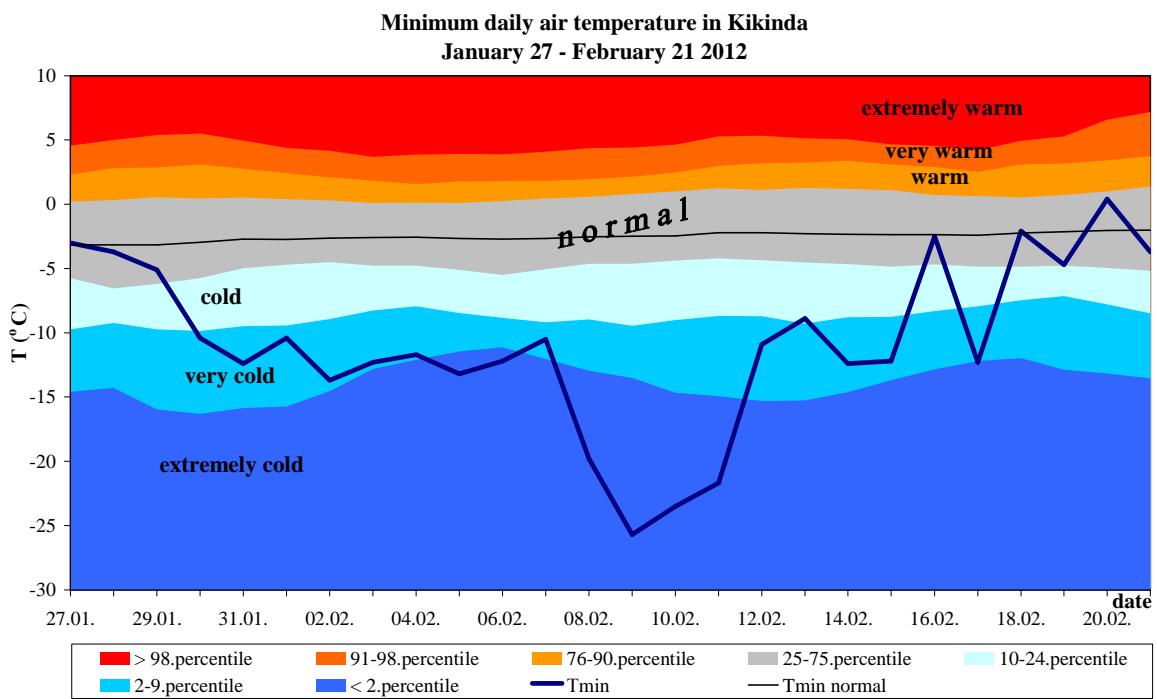


Figure 20: Diagram of the minimum air temperature in Kikinda during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

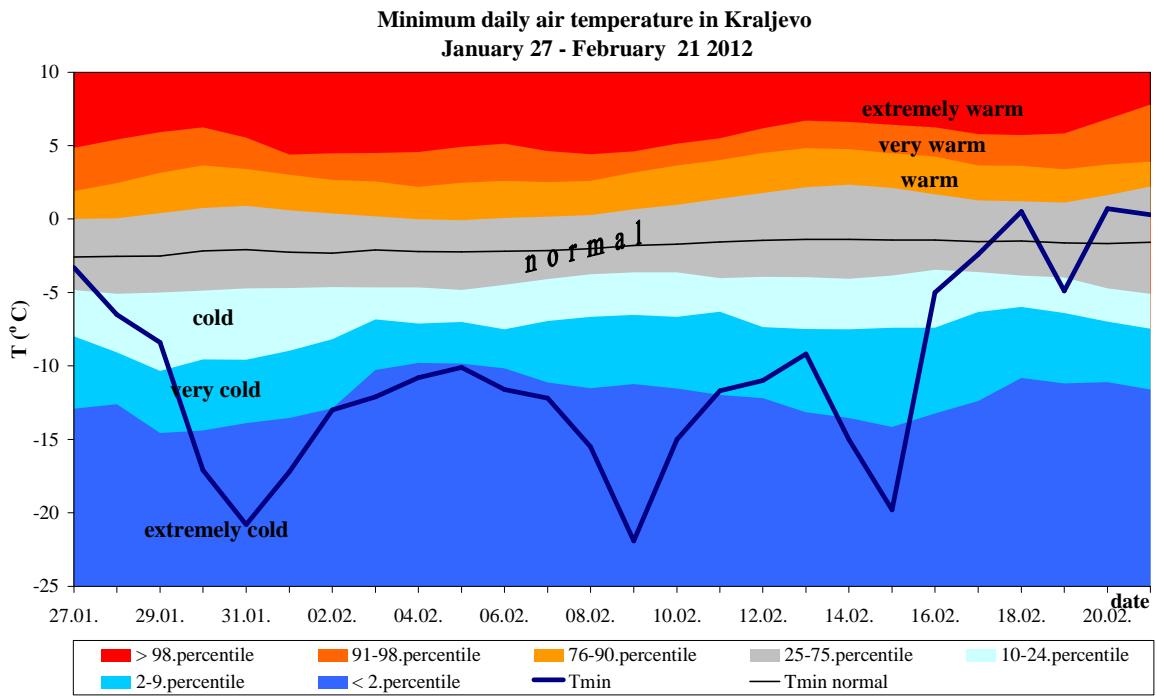


Figure 21: Diagram of the minimum air temperature in Kraljevo during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

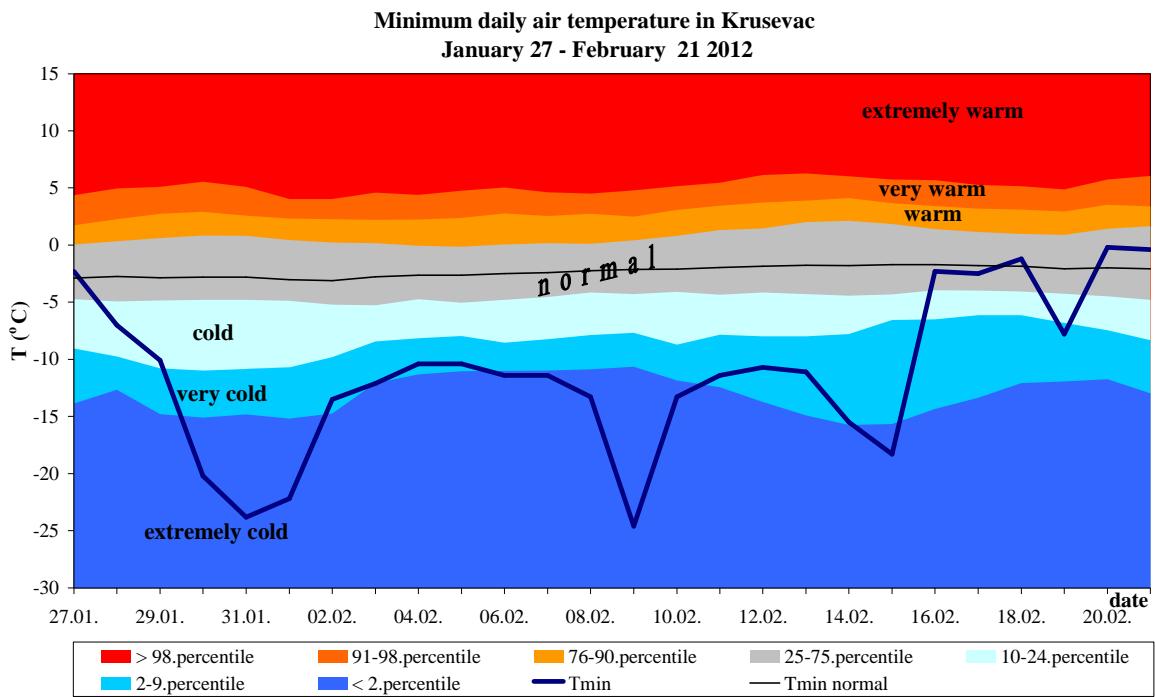


Figure 22: Diagram of the minimum air temperature in Krusevac during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

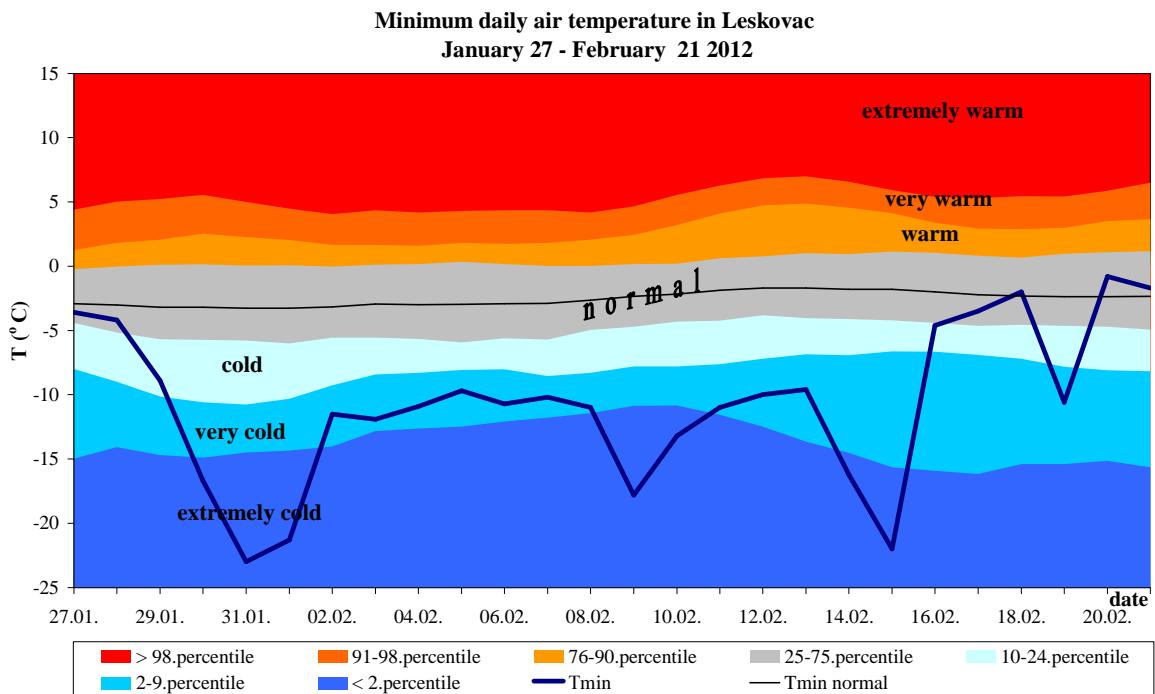


Figure 23: Diagram of the minimum air temperature in Leskovac during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

Minimum daily air temperature in Zrenjanin
January 27 - February 21 2012

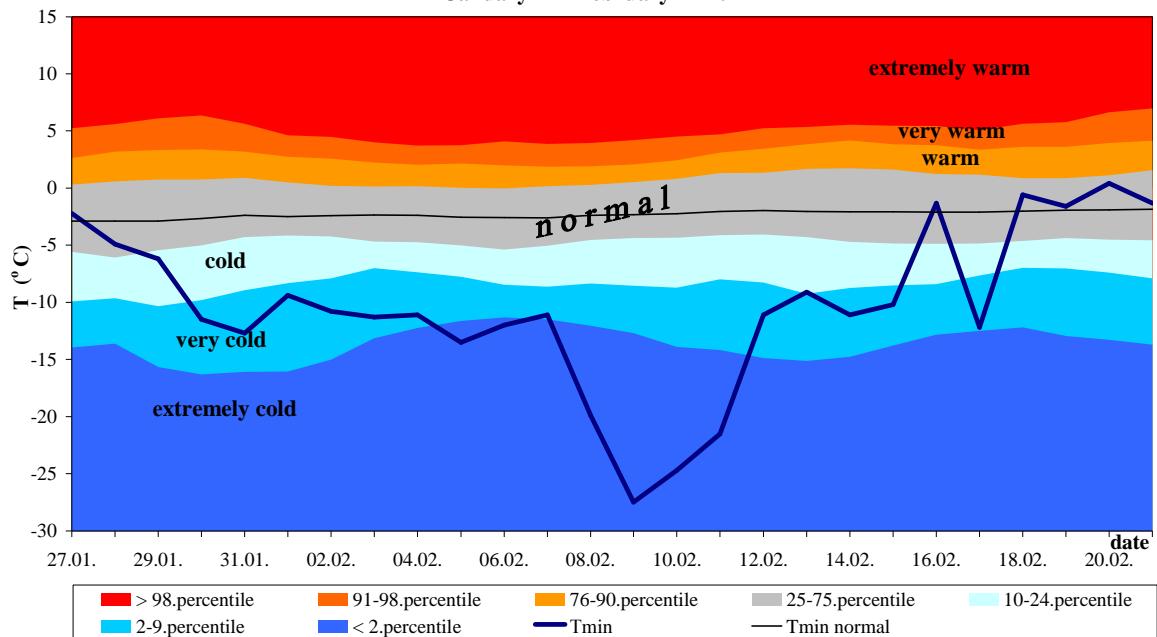


Figure 25: Diagram of the minimum air temperature in Zrenjanin during January 27 to February 21 2012 (blue line) and climate normal (1961-90 base period)

Appendix 6

Chart 1: Minimum air temperature record in February and annual minimum air temperature record at the meteorological stations in Serbia

Station	Tmin 27.1-17.2.2012.	Date (Tmin)	Tmax record in February	Tmax record in February Date	Tmax annual record	Tmax annual record Date
Palic	-21,5	9.2.2012.	-26,7	7.2.1954.	-26,7	7.2.1954.
Sombor	-26,8	9.2.2012.	-29,8	24.2.1942.	-29,8	24.2.1942.
Kikinda	-25,7	9.2.2012.	-27,4	6.2.1954.	-29,8	23.1.1963.
Becej	-25,0	9.2.2012.	-26,6	21.2.1978.	-30,6	24.1.1963.
Zrenjanin	-27,5	9.2.2012.	-28,7	17.2.1956.	-30,4	24.1.1963.
Novi Sad	-28,7	9.2.2012.	-28,1	17.2.1956.	-30,7	24.1.1963.
S.Mitrovica	-26,5	9.2.2012.	-29,4	3.2.1929.	-29,5	31.1.1987.
Zlatibor	-19,9	9.2.2012.	-21,5	5.2.1956.	-23,1	26.1.1954.
B.Karlovac	-28,1	9.2.2012.	-22,6	9.2.2005.	-23,7	31.1.1987.
Belgrade	-15,5	10.2.2012.	-25,5	11.2.1929.	-26,2	10.1.1892.
Loznica	-20,6	9.2.2012.	-24,0	2.2.1956.	-25,4	24.1.1963.
Valjevo	-23,2	9.2.2012.	-29,5	11.2.1929.	-29,6	8.1.1947.
V.Gradiste	-23,8	9.2.2012.	-27,1	17.2.1956.	-27,1	17.2.1956.
S.Palanka	-28,4	9.2.2012.	-30,0	16.2.1940.	-32,6	7.1.1947.
Kragujevac	-24,4	9.2.2012.	-30,7	11.2.1929.	-30,7	11.2.1929.
Kraljevo	-21,8	9.2.2012.	-27,1	17.2.1956.	-27,1	17.2.1956.
Pozega	-26,4	9.2.2012.	-29,2	17.2.1956.	-30,7	13.1.1985.
Cuprija	-24,3	9.2.2012.	-25,8	17.2.1985.	-27,1	31.1.1987.
Krusevac	-24,6	9.2.2012.	-28,5	9.2.1956.	-28,5	9.2.1956.
Negotin	-27,5	9.2.2012.	-28,5	5.2.1950.	-33,2	8.1.1947.
Zajecar	-24,6	9.2.2012.	-27,7	6.2.1950.	-29,0	13.1.1985.
Kopaonik	-19,0	7.2.2012.	-24,2	13.2.2004.	-24,8	13.1.1968.
Sjenica	-28,9	31.1.2012.	-33,0	9.2.1956.	-38,0	26.1.1954.
Crni Vrh	-22,1	2.2.2012.	-22,2	13.2.1985.	-23,2	24.1.2006.
Nis	-18,0	9.2.2012.	-21,6	5.2.1950.	-23,7	25.1.1963.
Vranje	-18,0	15.2.2012.	-22,0	17.2.1985.	-25,0	13.1.1985.
Dimitrovgrad	-21,2	31.1.2012.	-24,0	9.2.1956.	-29,3	18.1.1963.
Leskovac	-23,0	31.1.2012.	-29,5	5.2.1950.	-30,5	25.1.1963.
Kursumlja	-20,7	31.1.2012.	-22,0	14.2.1985.	-25,6	13.1.1985.
Vrsac	-27,7	9.2.2012.	-25,0	9.2.2005.	-25,0	26.1.2000/9.2.2005.
Surcin	-24,0	9.2.2012.	-20,7	10.2.2005.	-26,0	31.1.1987.

Appendix 7

Chart 1: Historical data about maximum snow depth at the meteorological stations in Serbia exceeding values between January 27 and February 21 2012

Station	Year	Historical annual snow depth maximum	Date	Work period of MS
Palic	1942	74	17.2.1942.	1942-2011
	1969	48	6.2.1969.	
	2003	41	10.1.2003.	
	1954	40	9.2.1954.	
Sombor	1962	48	18.3.1962.	1948-2011
	1953	46	17.2.1953.	
	1963	45	6.2.1963. and 23.12.1963.	
	1969	42	9.12.1969.	
	1987	42	20.1.1987.	
	1956	41	22.2.1956.	
Novi Sad	1984	61	19.2.1984.	1949-2011
	1954	57	9.2.1954.	
	1956	53	14.2.1956.	
	1966	49	20.1.1966.	
	1969	46	30.12.1969.	
	1970	44	19.2.1970.	
Zrenjanin	1956	85	13.2.1956.	1926-2011
	1954	66	23.2.1954.	
	1935	62	15.1.1935.	
	1940	60	22.1.1940.	
	1966	50	20.1.1966.	
Kikinda	1960	46	18. and 19.1.1960.	1949-2011
	1956	42	16.2.1956.	
	1969	40	6.2.1969.	
	1966	39	19.1.1966.	
	1954	37	22.2.1954.	
	1971	35	7.1.1971.	
Loznica	1984	69	13.2.1984.	1952-2011
	1985	56	24.2.1985.	
	1999	52	18.12.1999.	
	1962	50	4.2.1962.	
S.Mitrovica	1954	78	22.2.1954.	1925-2011
	1942	59	17.2.1942.	
	1929	56	16.2.1929.	
	1956	48	3.2.1956.	
	1996	48	9.2.1996.	
	1963	47	7.2.1963.	
	1940	46	1.2.1940.	
	1985	46	10.1.1985.	
	1935	38	15.2.1935.	

Station	Year	Historical annual snow depth maximum	Date	Work period of MS
S.Mitrovica	1958	37	2.3.1958.	1925-2011
	1966	37	20.1.1966.	
	1932	36	14.3.1932.	
	1969	36	30.12.1969.	
	1987	36	29.1.1987.	
	1933	35	26.1.1933.	
	1950	35	2.2.1950.	
	1960	35	19.1.1960.	
	1962	35	4.2.1962.	
	1967	35	13.12.1967.	
Valjevo	1954	67	19.2.1954.	1927-2011
	1984	63	12.2.1984.	
	1976	53	29.1.1976.	
Belgrade	1962	80	3.2.1962.	1925-2011
	1935	61	16.1.1935.	
Kragujevac	1954	71	24.2.1954.	1954-2011
	1962	60	3.2.1962.	
	1984	52	12.2.1984.	
S.Palanka	1954	59	24.2.1954.	1954-2011
	1956	55	16.2.1956.	
	1963	49	22.1.1963.	
	1966	49	20.1.1966.	
	1962	48	4.2.1962.	
	1947	44	28.1.1947.	
	1940	43	21.1.1940.	
	1976	42	29.1.1976.	
	1945	40	30.1.1945.	
	1985	39	10.1.1985.	
V.Gradiste	1935	59	20.1.1935.	1935-2011
	1966	54	20.1.1966.	
	1976	54	30.1.1976.	
	1985	47	8.1.1985.	
	1980	40	5.1.1980.	
	1963	39	2.2.1963.	
Crni Vrh	2000	167	25.1.2000.	1966-2011
Negotin	1954	115	22.2.1954.	1948-2011
	1986	75	17.2.1986.	
	1962	70	4.2.1962.	
	1985	67	10.1.1985.	
	1963	59	23.1.1963.	
	1956	58	20.2.1956.	
	1995	57	6.12.1995.	
Pozega	1954	70	19.2.1954.	1949-2011
	1962	55	3.2.1962.	
	1963	55	22.1.1963.	

Station	Year	Historical annual snow depth maximum	Date	Work period of MS
Pozega	1999	53	17.12.1999.	1949-2011
	1987	52	30.1.1987.	
	1966	50	8.1.1966.	
	1976	48	29.1.1976.	
	1980	47	4.1.1980.	
Kraljevo	1984	82	11.2.1984.	1961-2011
Kopaonik	1984	198	15.2.1984.	1980-2011
	2000	170	22.3.2000.	
	2006	170	18.3.2006.	
	1982	163	21.3.1982.	
	1988	163	12.3.1988.	
	1997	161	8.4.1997.	
	1996	160	18.4.1996.	
	2009	142	23.3.2009.	
	1980	140	4.3.1980.	
	1981	140	17.1.1981.	
	1954	90	20.2.1954.	1946-2011
Kursumlija	1956	66	16.2.1956.	
	1963	56	22.1.1963.	
	1962	51	3.2.1962.	
	1980	70	5.12.1980.	1930-2011
Krusevac	1963	62	27.1.1963.	1930-2011
	1935	58	22.1.1935.	
	1954	59	24.2.1954.	
Cuprija	1987	58	30.1.1987.	1949-2011
	1954	62	23.2.1954.	
Nis	1963	58	23.1.1963.	1931-2011
	1985	53	10.1.1985.	
	1963	124	31.1.1963.	
Leskovac	1991	80	17.2.1991.	1949-2011
	1992	68	23.2.1992.	
	1993	46	9.2.1993.	
	1985	46	18.2.1985.	
	1954	108	22.2.1954.	
Zajecar	1954	75	1.3.1954.	1929-2011
	1985	66	11.1.1985.	
	1962	63	3.2.1962.	
	1985	63	22.1.1985.	
	1954	93	23.2.1954.	
Dimitrovgrad	1963	79	23.1.1963.	1925-2011
	1985	57	10.1.1985.	
	1986	50	3.2.1986.	
	1987	50	5.1.1987.	

Station	Year	Historical annual snow depth maximum	Date	Work period of MS
Vranje	1985	55	11.1.1985.	1949-2011
	1963	48	22.1.1963.	
	1991	43	17.2.1991.	
	1954	41	9.2.1954.	
Becej	1969	57	6.2.1969.	1949-2011
Vrsac	1935	60	19.1.1935.	1929-2011
	1956	49	16.2.1956.	
	1963	49	2.2.1963.	
	1976	47	30.1.1976.	
	1985	47	10.1.1985.	