

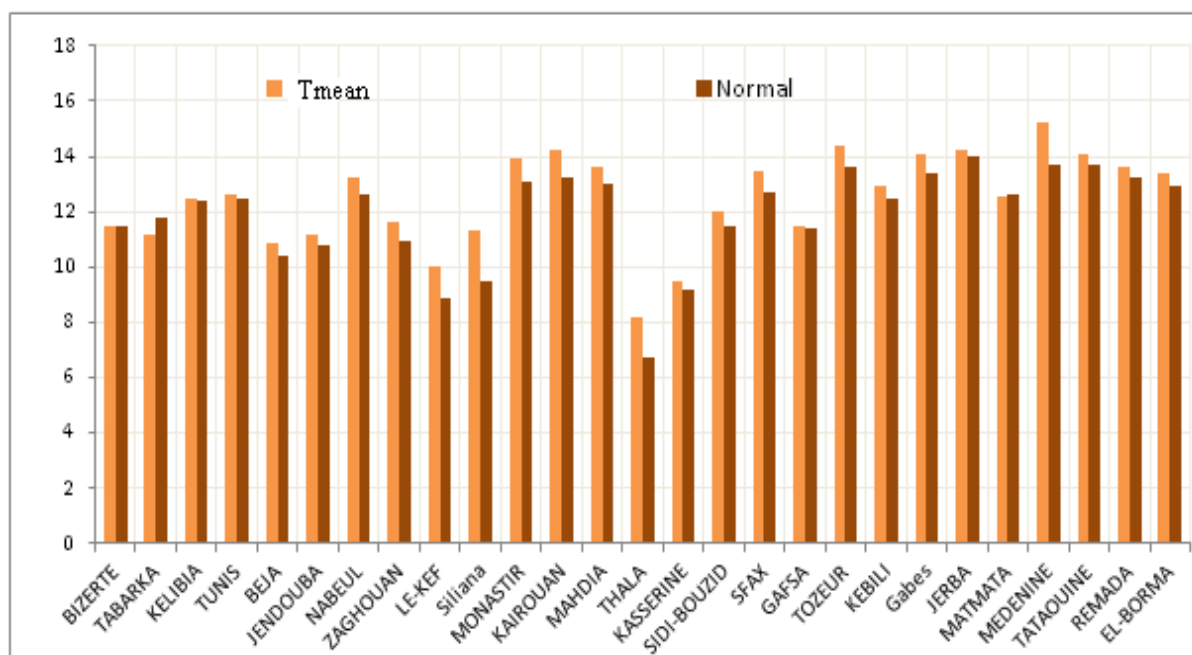
Monthly Climatological Report_ February 2023 in Tunisia

The month of February 2023 was marked by the alternation between the stability of weather conditions on few days and the successive passages of disturbances in our regions, especially during the first half of the month. The national average temperature (27 main stations) was 12.5°C and it was slightly higher than the reference average, with a deviation of +0.6°C.

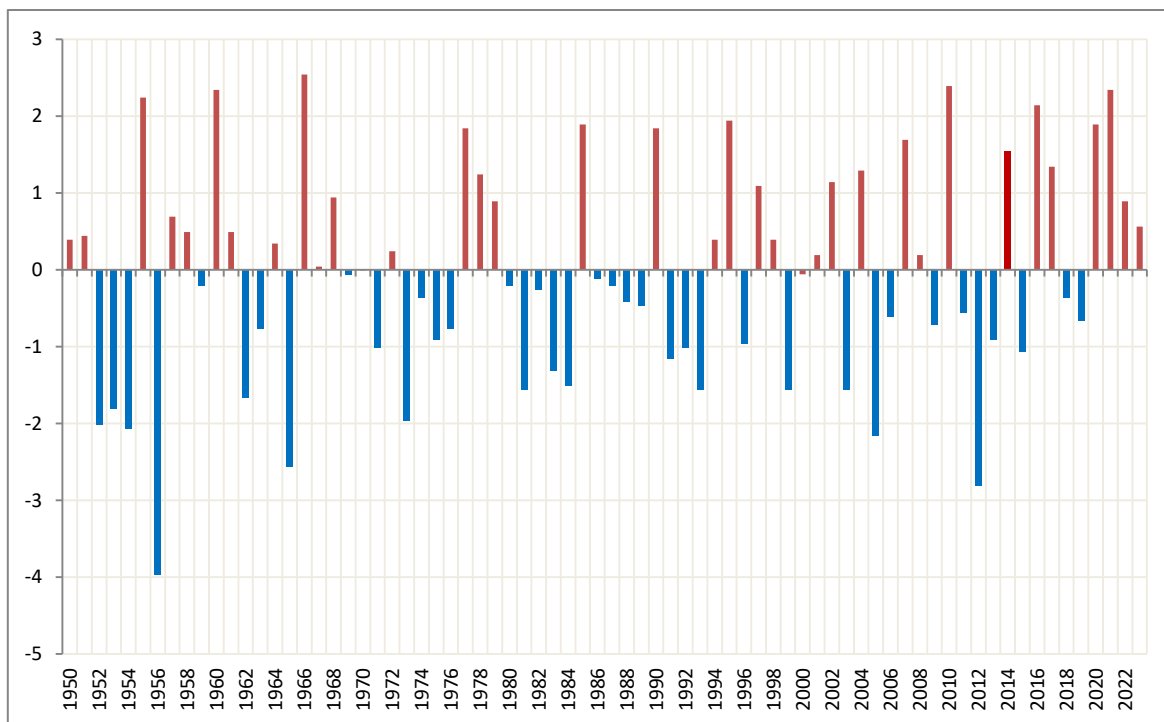
Regarding precipitation, the monthly cumulative rainfall (27 main stations) amounted to 832.7 millimeters, while the reference cumulative for the same stations was 914.8 millimeters, which represents 91% of the total monthly rainfall. benchmark (1991-2020).

- Mean temperature :

Average temperatures varied between 8.2°C in Thala and 15.3°C in Medenine, and were above the reference rates (1991-2020) in most regions, and the deviations varied between +0.1°C in Kelibia and +1.8°C in Siliana, with the exception of Tabarka and Matmata, where the rates were slightly lower than the reference averages, and the differences reached respectively -1.7°C in Tabarka and -0.1°C in Matmata. As for the national mean temperature (27 main stations), it reached 12.5°C, exceeding the reference average (11.9°C) with a slight difference of +0.6°C.

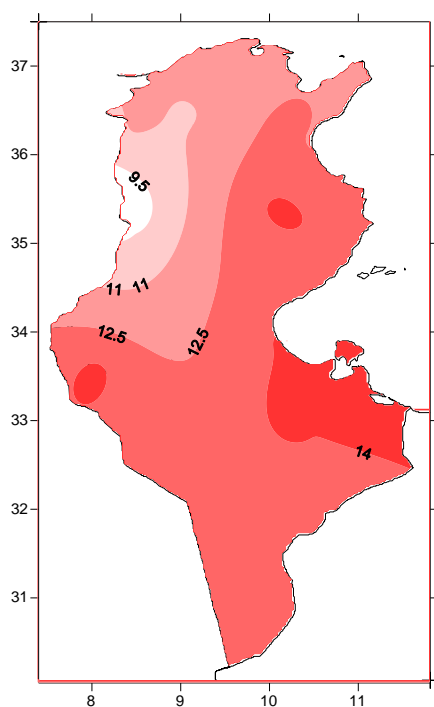


Comparison of mean and normal temperatures of February

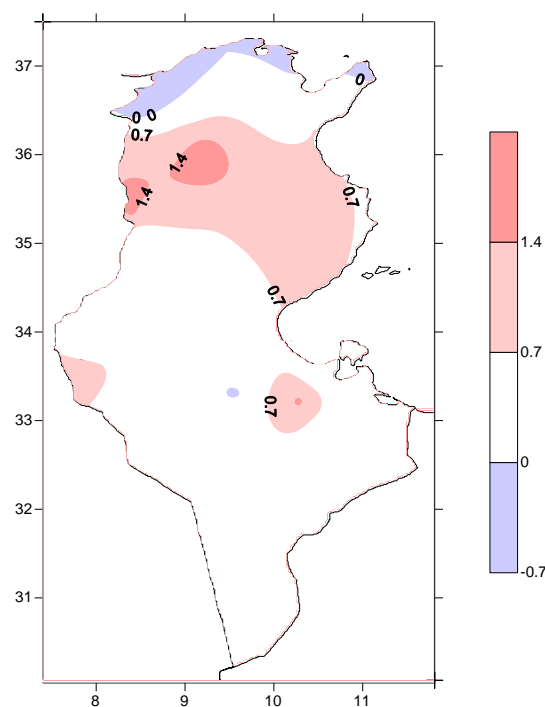


Deviation from normal (1991-2020) in mean temperatures

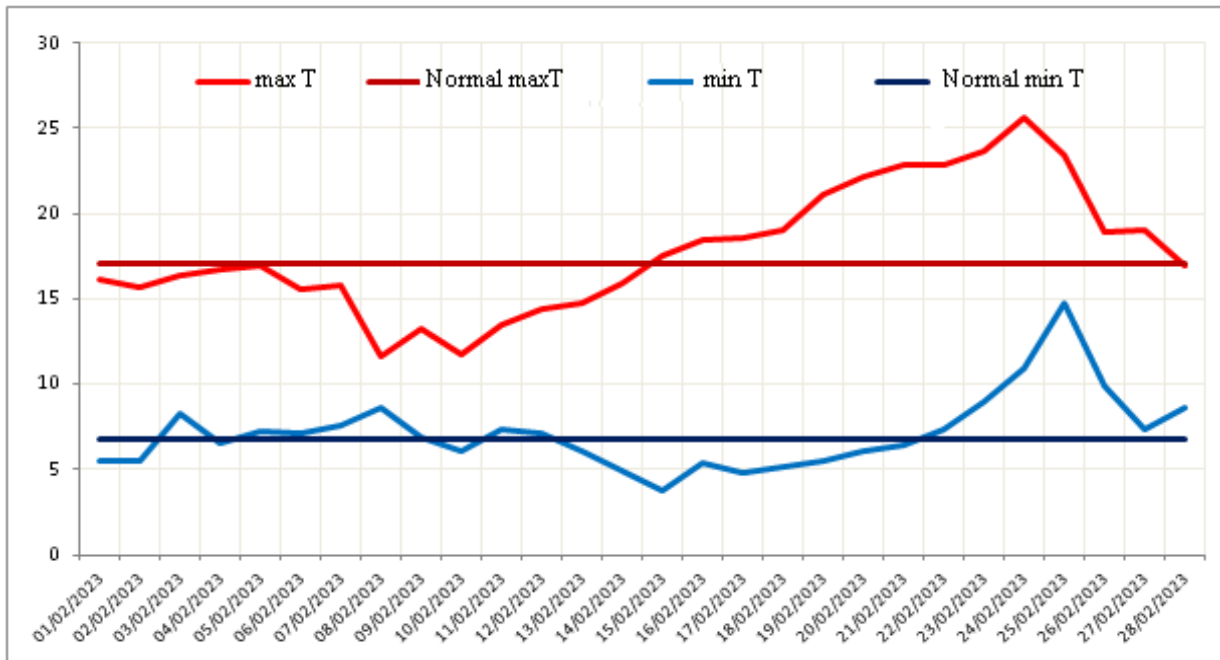
since 1950: Month of February



Mean Temperature (Tmean) °C



Deviation from normal Tmean (°C)



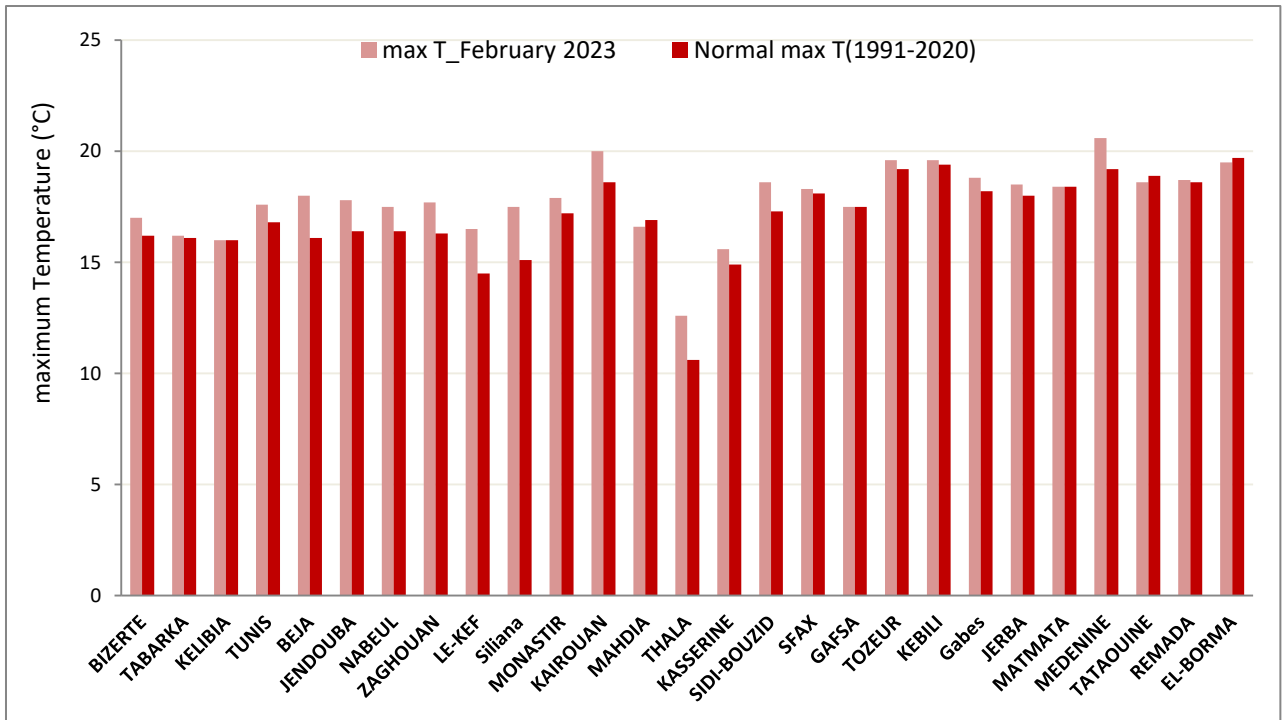
Evolution of daily temperatures in Tunisia compared to the normal for the month of February

The first half of February 2023 was marked by a cold weather, with some snowfall in the highlands of the west of the country (Jendouba, Kef, Siliana and Gafsa).

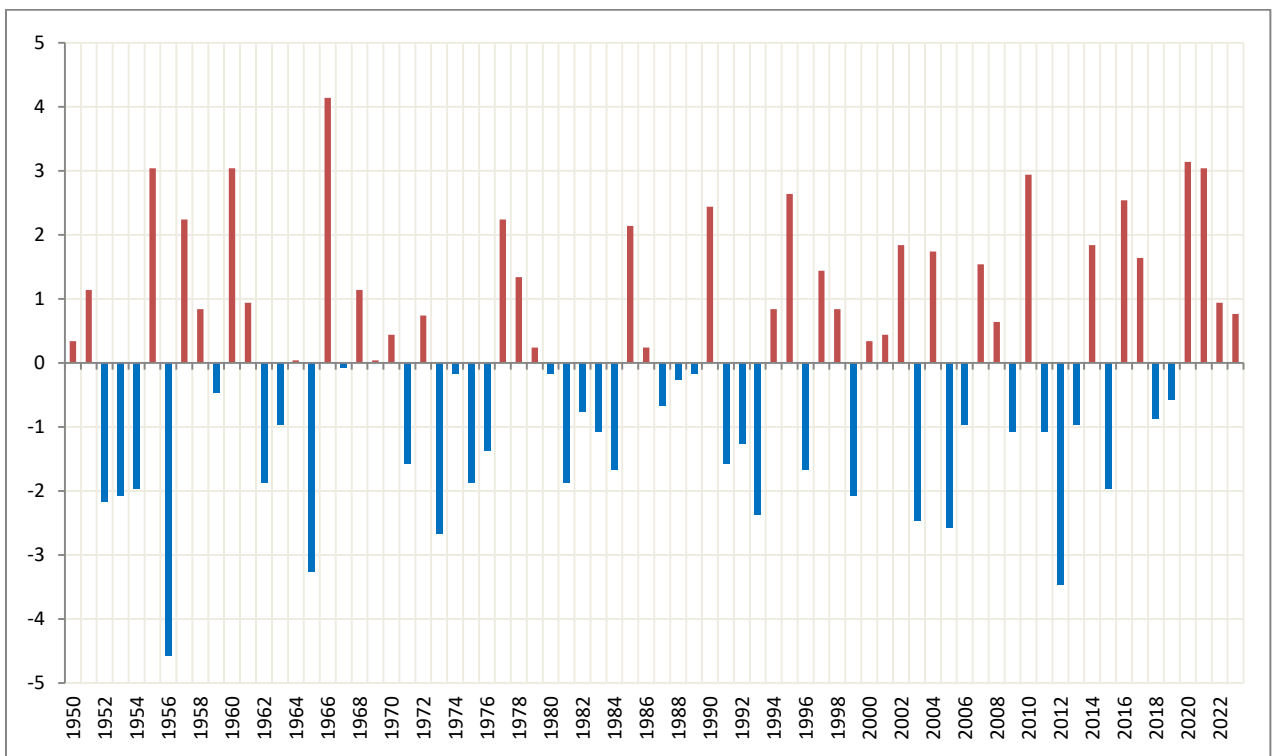
The maximum temperatures were much lower than the reference averages, in particular during the period from February 7 to 10, 2023. During the second half of the month, temperatures were high in all regions and exceeded the reference averages with differences ranging from 5 to 10°C. , then the temperature fell while approaching the reference average at the end of the month.

- Maximum temperature:

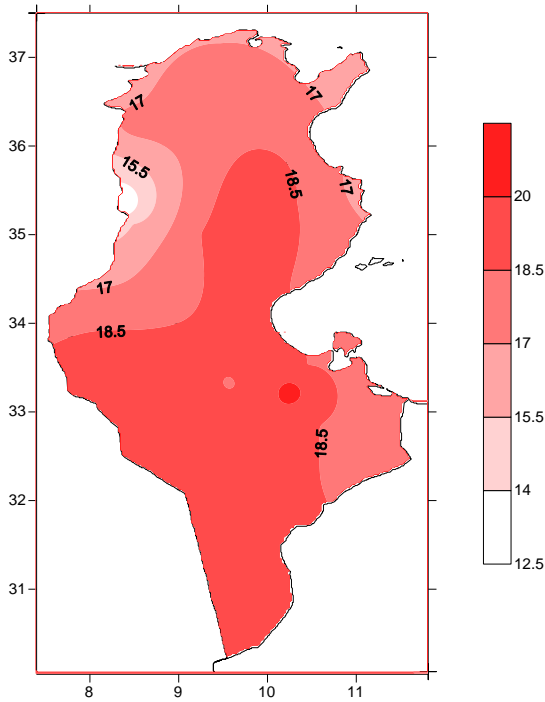
Maximum temperatures were close to reference normals (1991-2020) in most regions during the first half of the month, then showed a relative increase during the second half of the month. The average maximum temperatures varied between 12.6°C in Thala and 20.6°C in Médenine, and they were higher than the reference averages in most regions with differences between +0.1°C in Tabarka and Remada and +2.4°C in Siliana, with the exception of Mahdia, Tataouine and El Borma, where the averages were slightly lower than normal, with small deviations varying between -0.2°C in El Borma and -0.3°C in Mahdia and Tataouine. Note that the absolute maximum temperature reached 28.8°C in Kairouan on February 24, 2023. As for the national average maximum temperature (27 main stations), it reached 17.8°C, exceeding the reference average for the same stations (17.1 °C) with a difference of +0.7 °C.



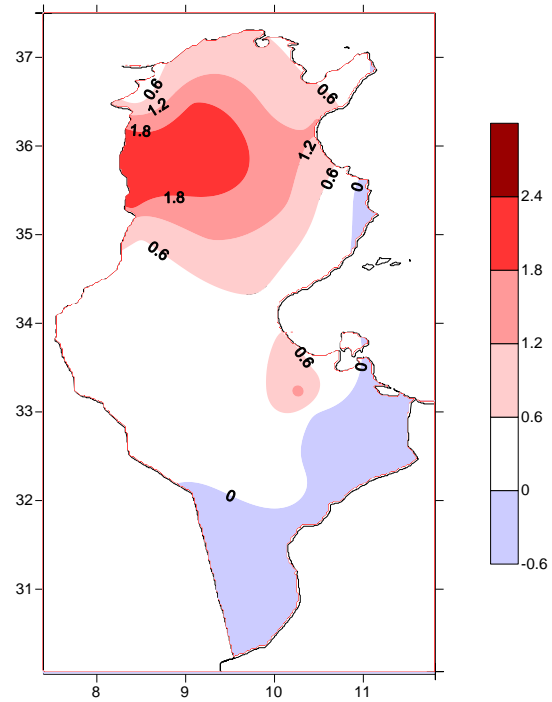
Comparison of maximum and normal temperatures for the month of February



Deviation from normal 1991-2020 maximum temperatures since 1950: Month of February



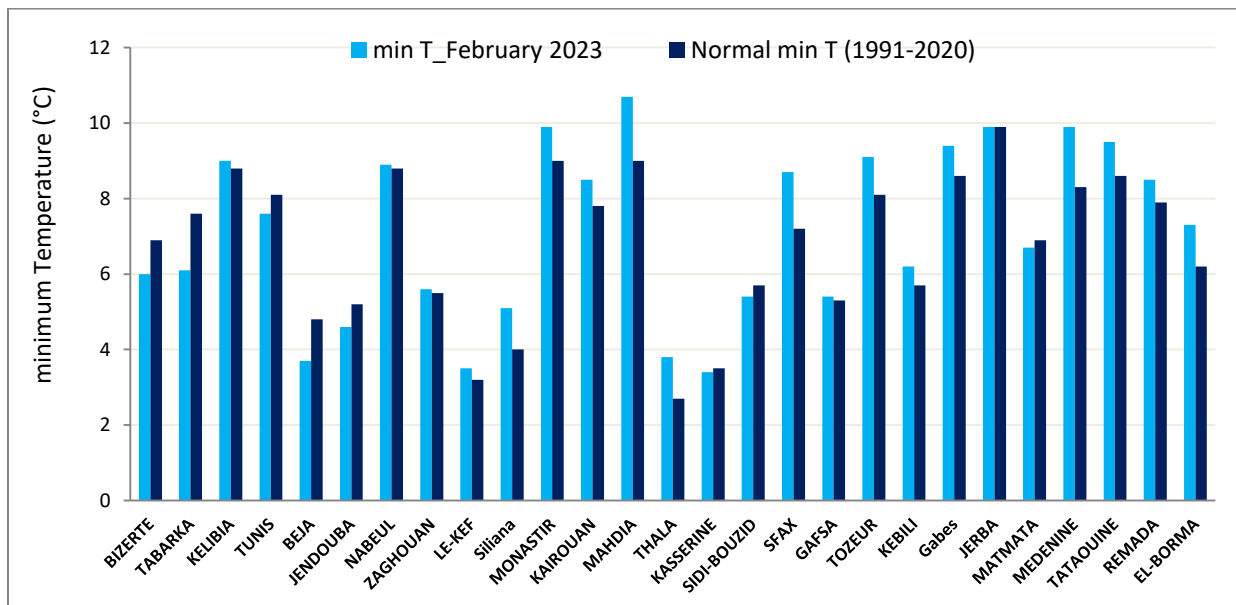
Maximum temperature_maxT(°C)



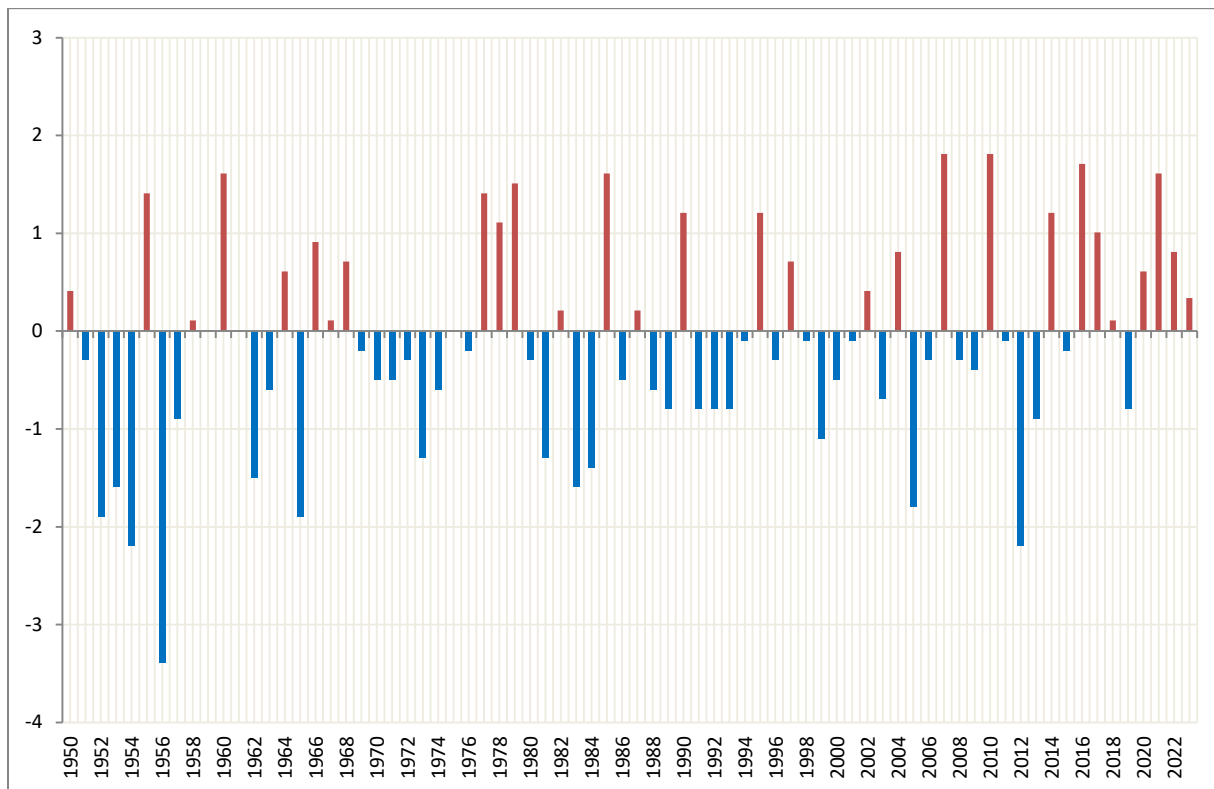
Deviation from normal of maxT(°C)

- Minimum temperature :

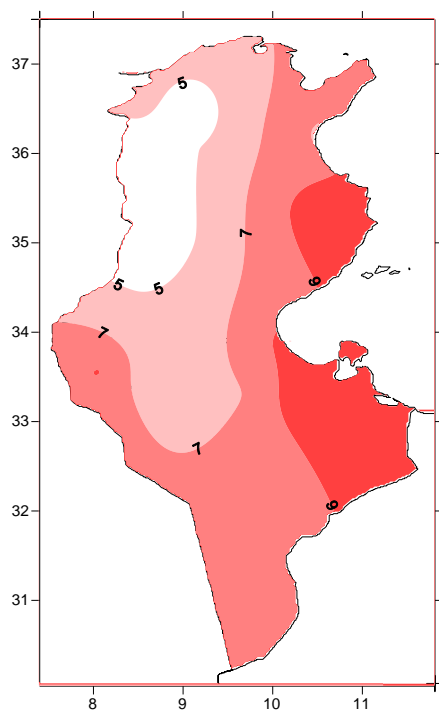
Minimum temperatures varied from 3.4°C in Kasserine to 10.7°C in Mahdia, and they were above the reference averages in most regions with variations ranging from +0.3°C in Kasserine to + 1.7°C in Mahdia, except in the far north and the mountainous regions, where the rates were lower than the reference rates, and the differences ranged from -0.1°C in Kasserine to 1.5°C in Tabarka . The absolute minimum temperature reached -2.0°C in Kasserine on February 13, 2023. As for the national average minimum temperature, it reached 7.1°C, exceeding the reference average (6.8°C) with a difference of +0.3°C.



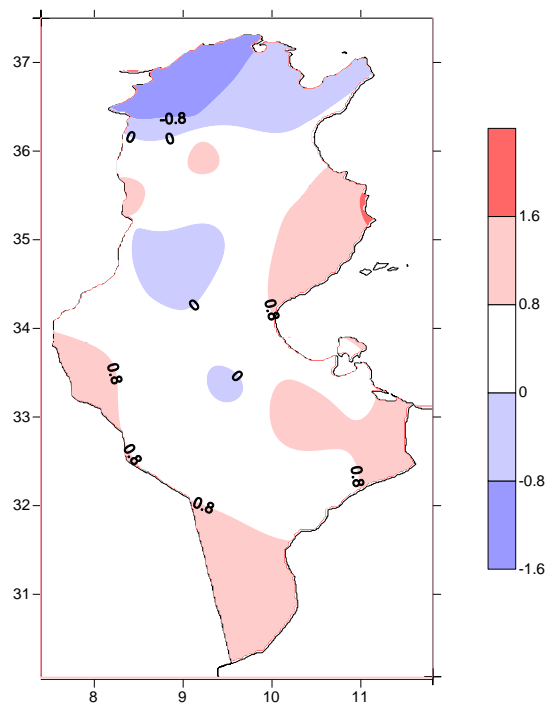
Comparison of minimum and normal temperatures for the month of February



Deviation from the normal (1991-2020) of minimum temperatures since 1950: Month of February



Minimum temperature _minT (°C)



Deviation of minT from normal in (°C)

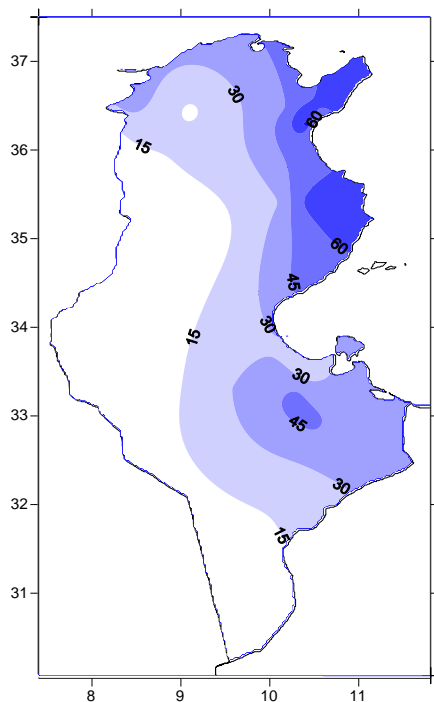
- rainfall :

The month of February 2023 saw a decrease in rainfall amounts over several regions, and the percentage of the decrease over the north varied from 5% in Zaghouan to 86% in Beja, with the exception of the Cap Bon region where the monthly accumulation was higher than the normal for the month and the excess rate reached 5% in Kelibia and 122% in Nabeul.

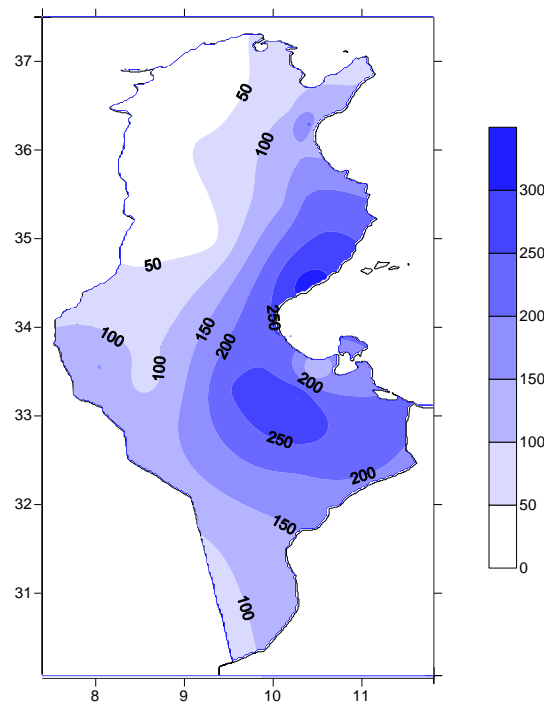
In the center of the country, the western regions also experienced a decrease in rainfall amounts and the decrease varied from 52% in Kasserine to 72% in Sidi Bouzid, while the total rainfall was higher than the reference monthly accumulation in the Sahel and East of Kairouan where the exceedance rate varied from 32% in Sousse to 94% in Mahdia and reached 121% in Monastir.

However, the cumulative rainfall was higher than normal in most southern regions, where the exceedance rate varied from 53% in Tozeur to 77% in Remada, the exceedance rate reached **230%** in Sfax, 201% in Medenine, 170% in Tataouine and 160% in Gabes, while the total accumulation was lower than normal in Gafsa, Kebili and El Borma, where the percentage of deficit was respectively 45% in Gafsa and 21% in Kebili and El Borma. As for the rainfall total (27 main stations), it reached 832.7 mm during this month, while the rainfall normal for the same stations was 914.8 mm, which represents 91% of the reference total (1991 -2020).

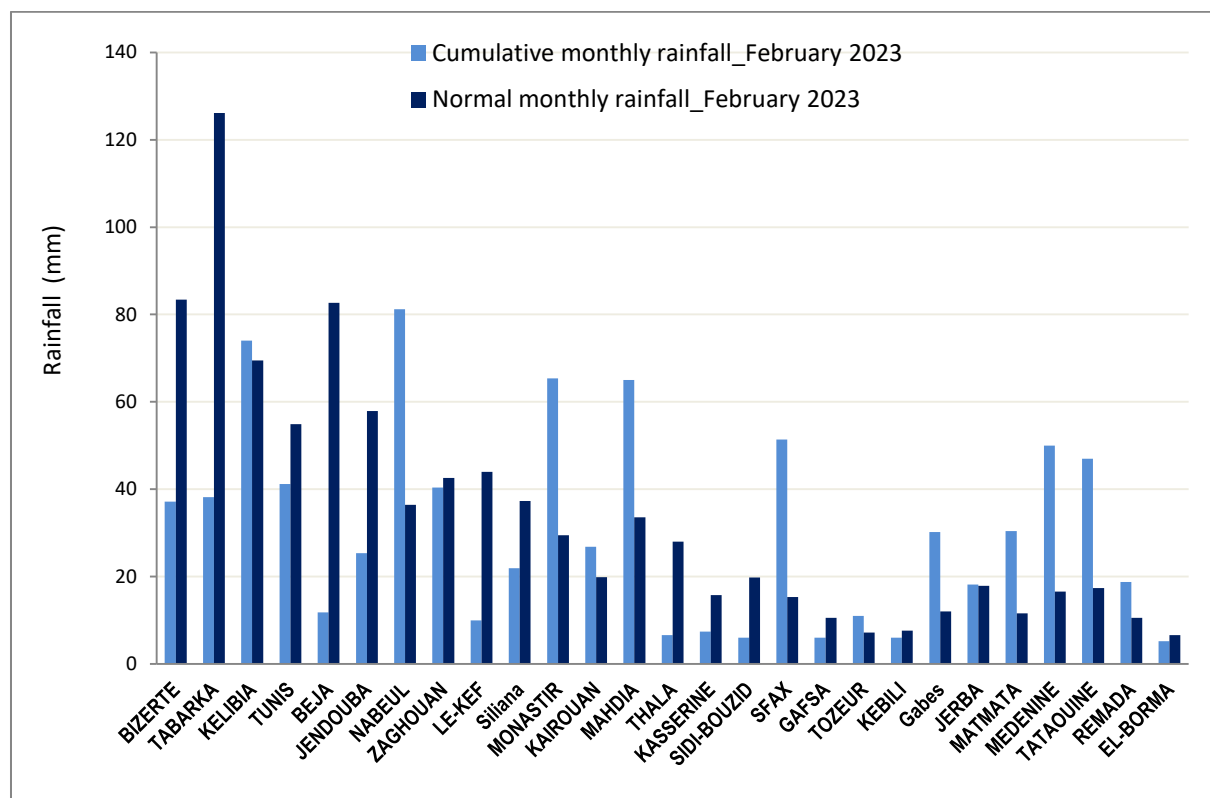
It should be noted that snowfall was recorded on the western highlands of our country during the days of February 9 and 10 in Ghar El-Dama and Ain Draham (snow thickness of 1 to 2 centimeters) in the governorate of Jendouba and during the day of February 10, 2023 in Touririf and Sakiet Sidi Youssef in the governorate of Kef and in Kesra, Makthar, Rouhia and Ain Bousadia in the governorate of Siliana, Thala in the governorate of Kasserine and Jebel Orbata in Gafsa. Also, hailstorms were also recorded in Medenine on February 13, 2023.



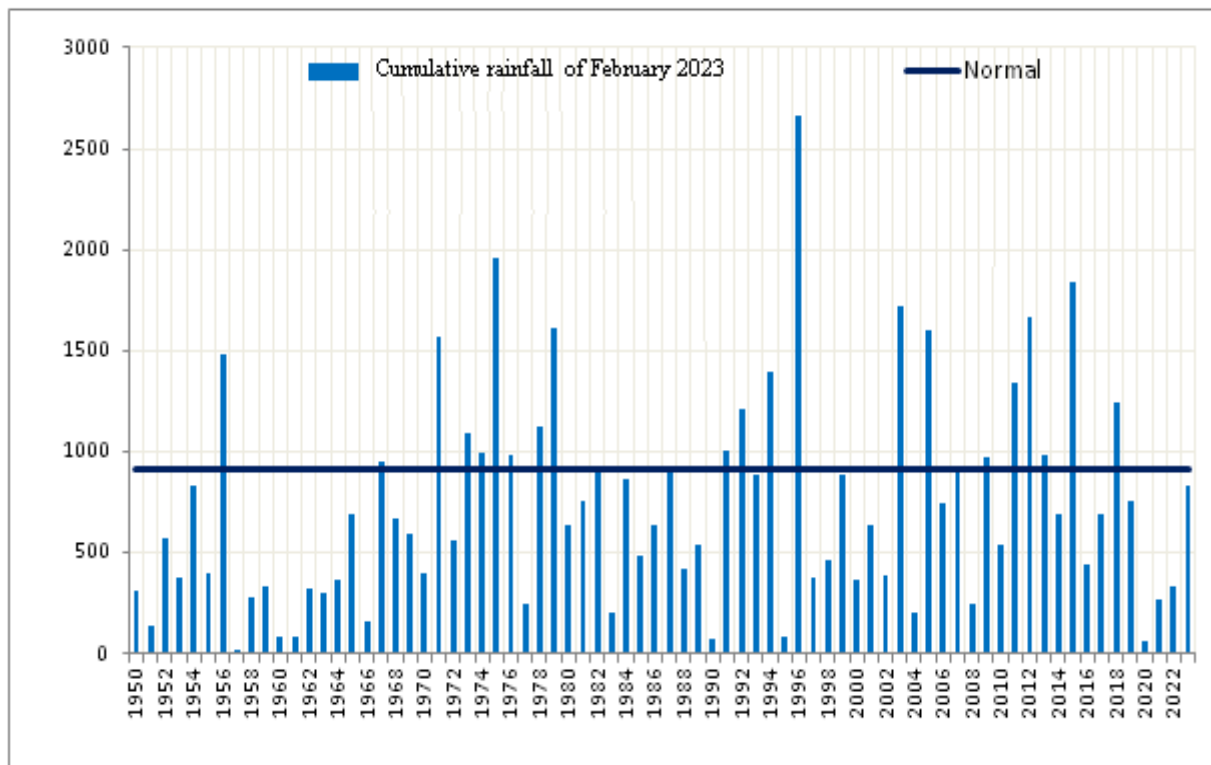
Total rainfall amounts _ February 2023 (mm)



**Ratio of total rainfall of February 2023
to the reference (1991-2020)**



Comparison of monthly accumulations (February 2023) of rain compared to normals for the month



Cumulative monthly precipitation since 1950 on Tunisia: Month of February

- The winds:

The winds were generally light to moderate and their speed increased on February 05, 2023 on the central-western heights, reaching a maximum of 76 km/h at Kasserine.

During the period from February 8 to 10, the winds were strong in most of our regions, and their maximum speed varied from 60 km/h in Zaghouan and Béja to 83 km/h in Mahdia, Sfax and Tataouine and a maximum of 112 km/h was recorded in Djerba on the 9th of the month. These strong winds generated sand phenomena in Tozeur and El Borma.

The winds were also strong on February 25, 2023 over the regions of Nabeul and Kasserine, and their maximum speed varied between 60 km/h and 80 km/h, and it reached a maximum of 108 km/h in Kasserine.

➤ **Figure n°01 and Figure 02**



Figure n°01

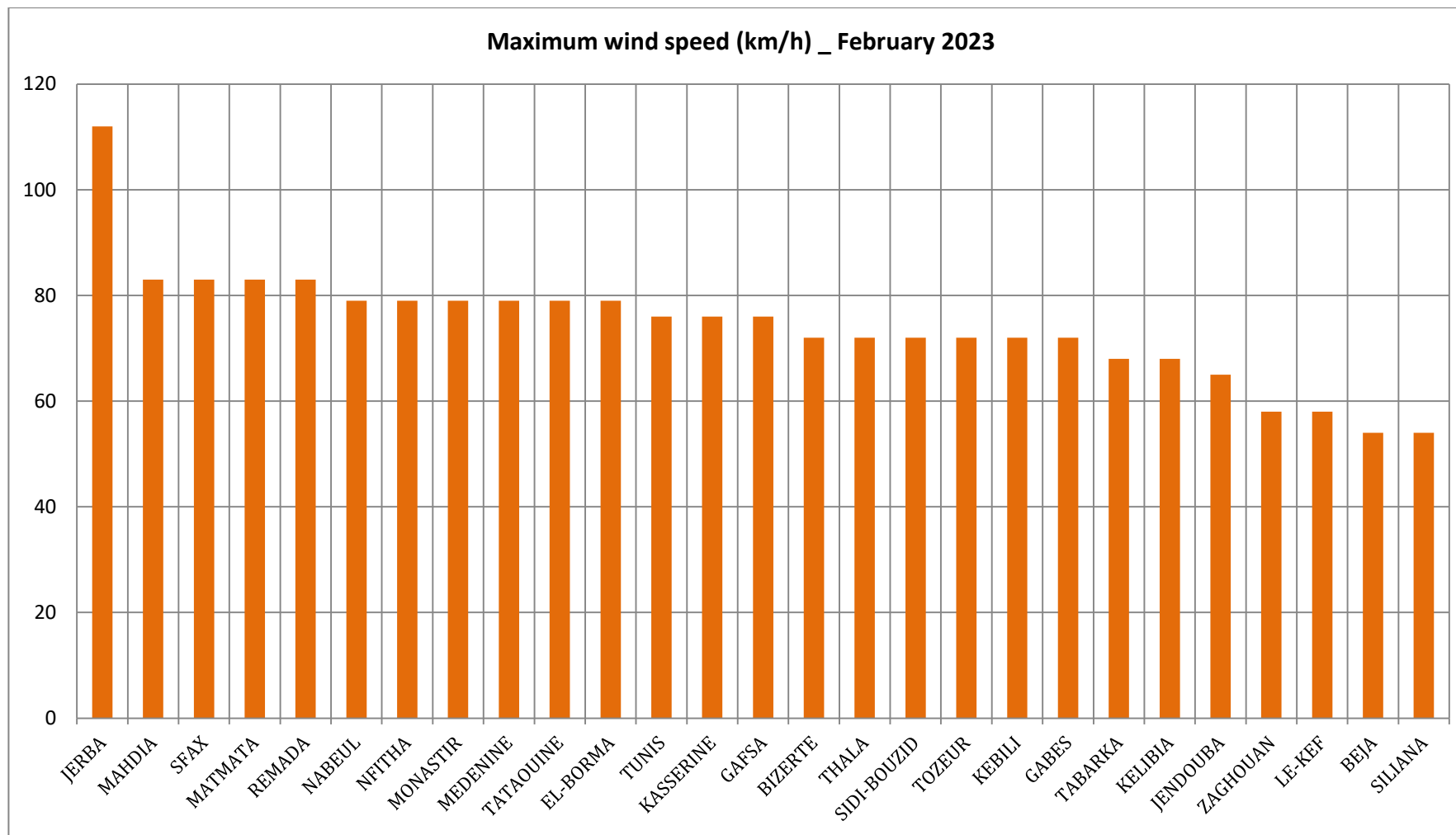




Figure n°02

