

Monthly Climatological Report of November 2022 in Tunisia

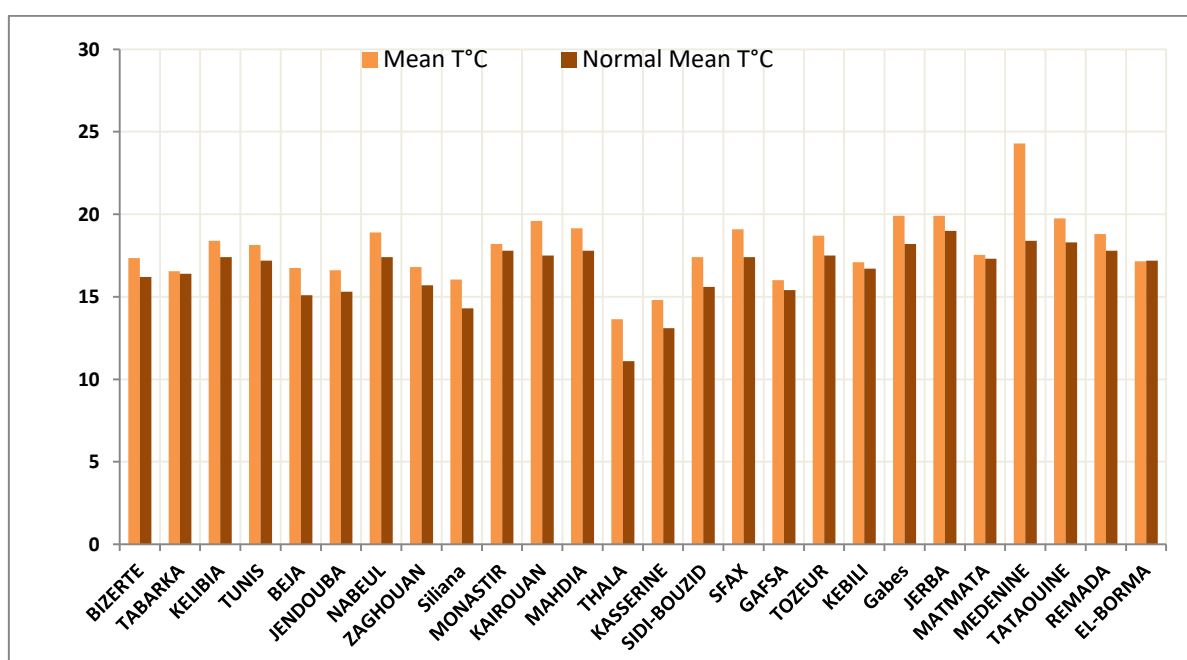
(the third hottest month of november since 1950)

November 2022 was marked by a rise of temperature in most regions. The average temperature exceeded the benchmark by +1.5°C, making November of this year the third hottest since 1950.

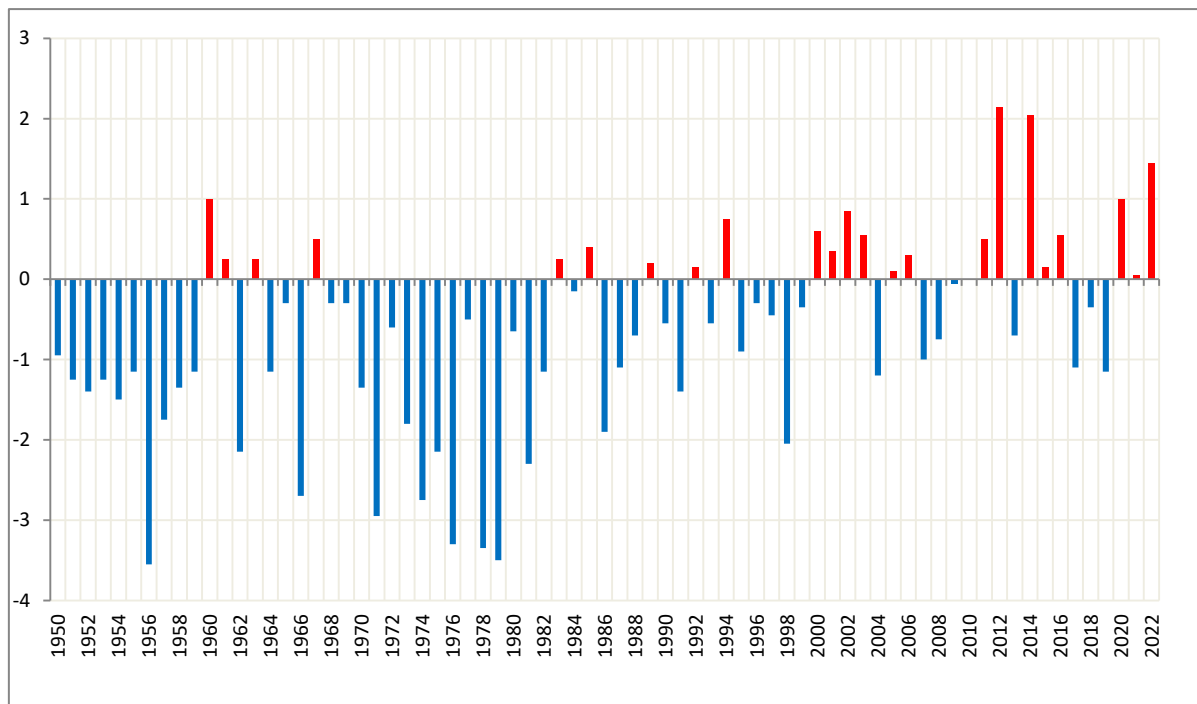
With regard to rain, and after the dry month of October, most of the northern regions witnessed the return of rain in several periods, as the monthly total rainfall exceeded the reference average, but the rainfall remained scarce in the rest of the country. The monthly total in all regions (27 main stations) for the month was 757.3 mm, while the reference total for the same stations was 1069 mm, and thus the percentage of the decrease reached 30%.

- Mean temperatures:

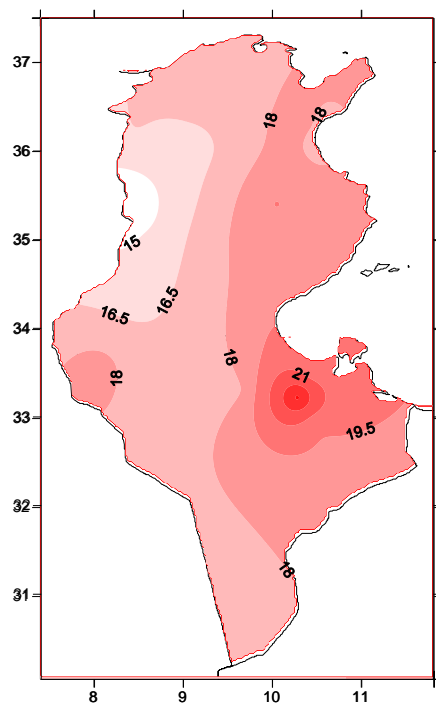
Mean temperatures ranged between 13.7 °C in Thala and 24.3 °C in Medenine. The general mean temperature for (27 main stations) was 18 °C, exceeding the reference average (1991-2020) by a difference of +1.5 °C. November 2022 was ranked **the third hottest month after November 2014 (+2.1 °C) and November 2012 (+2.2 °C).**



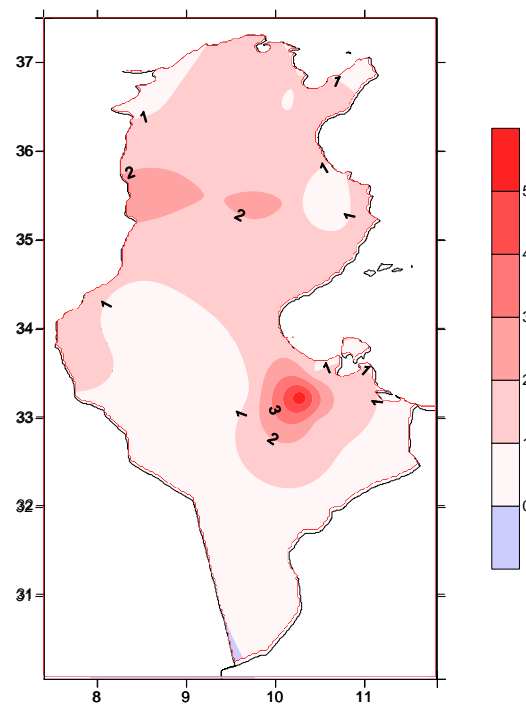
Comparison of mean temperatures (November 2022) with reference rates (1991-2020)



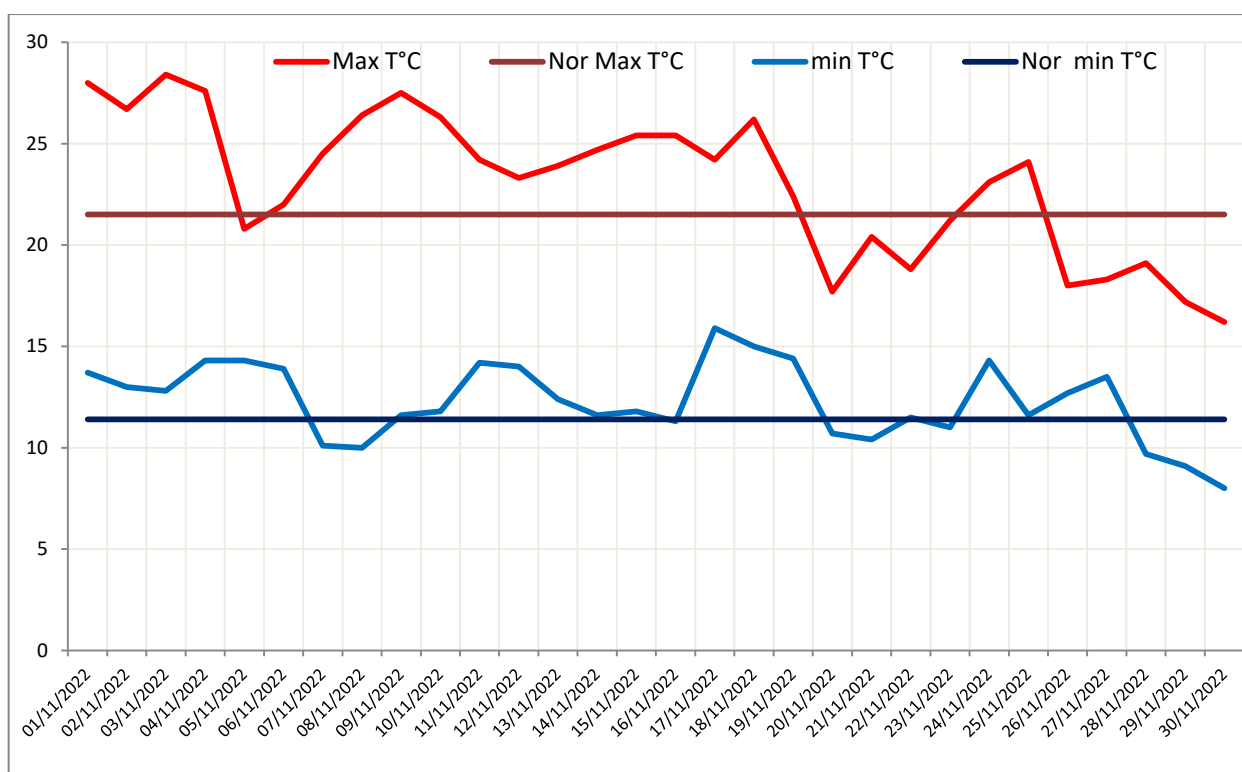
The difference in the average temperature during November relative
to the reference rate (1991-2020) since 1950



Mean temperatures (°C)
during November 2022



Average temperature difference
about the reference rate (1991-2020)



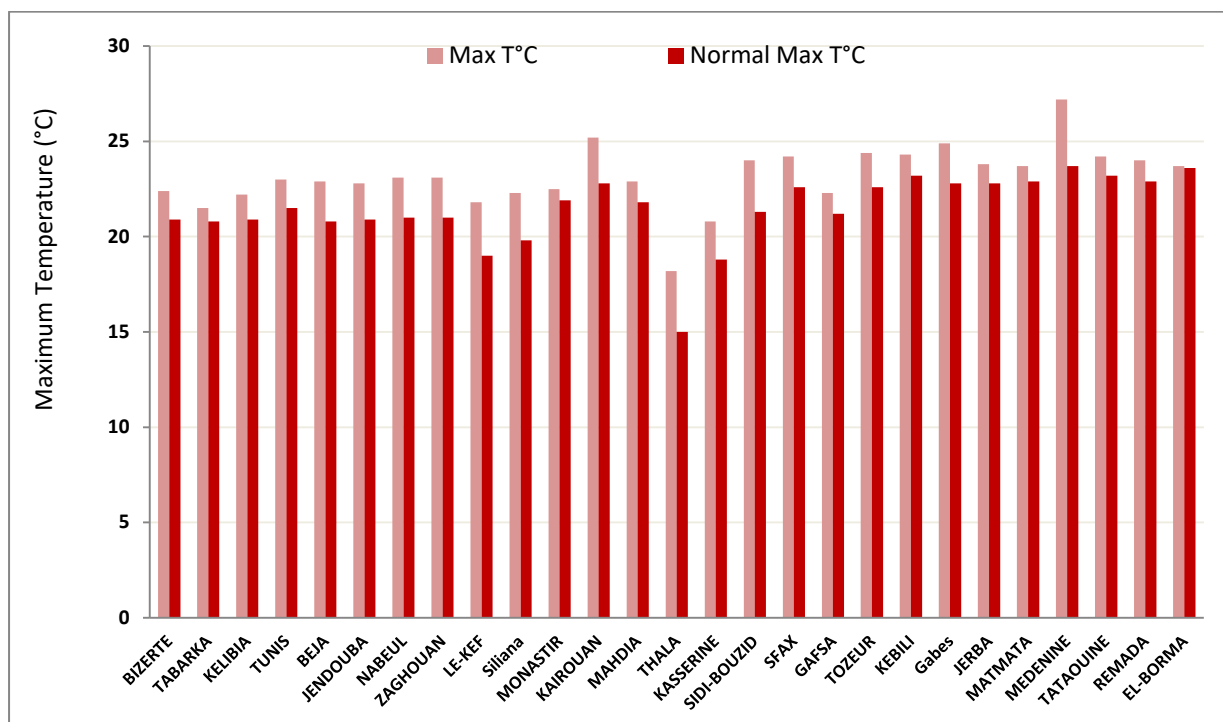
Daily evolution of temperature in Tunisia compared to the reference rates (1991-2020)

The temperatures in November 2022 were exceptionally high and continued to be above the reference rates until the nineteenth day of the month. Starting from the twentieth day of the month, weather fluctuations included many directions and were accompanied by scattered rains and strong winds, which caused a noticeable decrease in temperature, especially during the period from November 20 to 30, 2022.

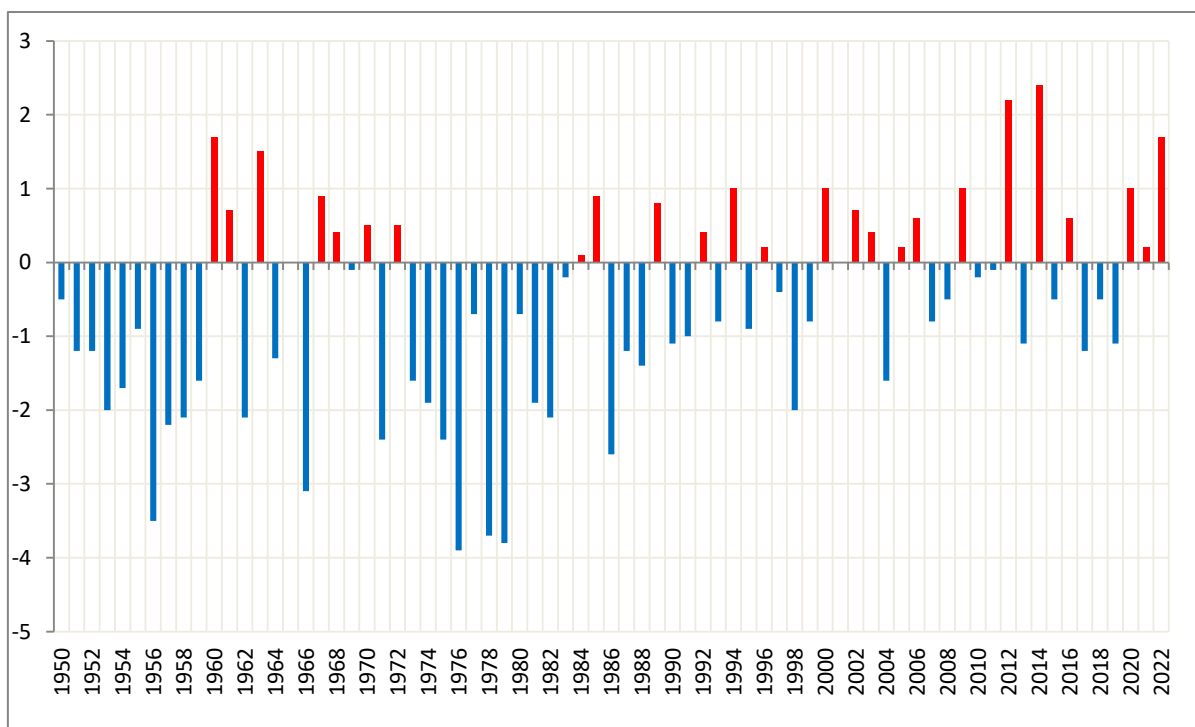
- Maximum temperature :

The average maximum temperature ranged from 18.2 °C in Thala to 27.2 °C in Medenine. The maximum temperatures in November were higher than the reference rates in all regions, with differences ranging from +0.1 °C in El Borma to +3.5 degrees in Medenine.

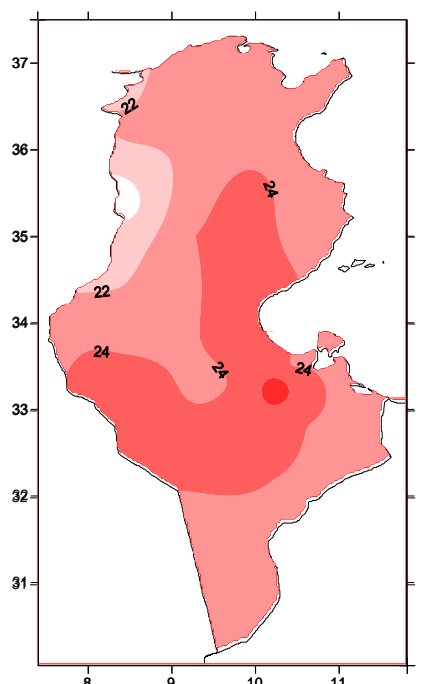
As for the general average (27 main stations) for the maximum temperature, it reached 23.2 °C, and it exceeded the reference average for the same stations (21.5 °C) by a difference of +1.7 °C.



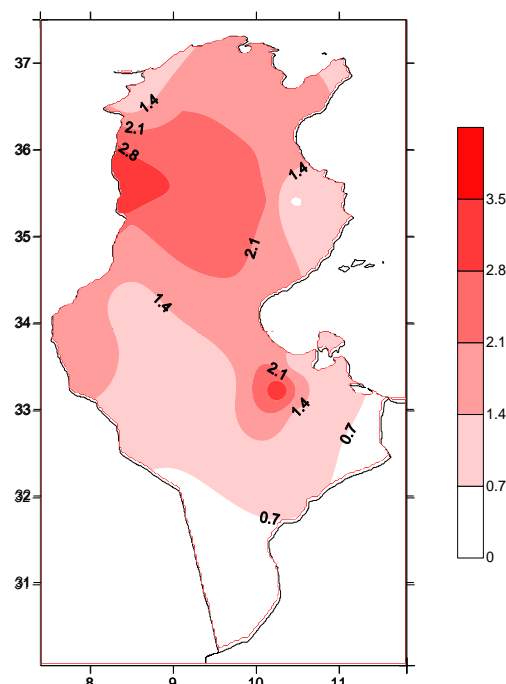
Comparison of the average maximum temperature of November 2022
with the reference rates (1991-2020)



The difference in the mean maximum temperature during November
relative to the reference rate (1991-2020) since 1950



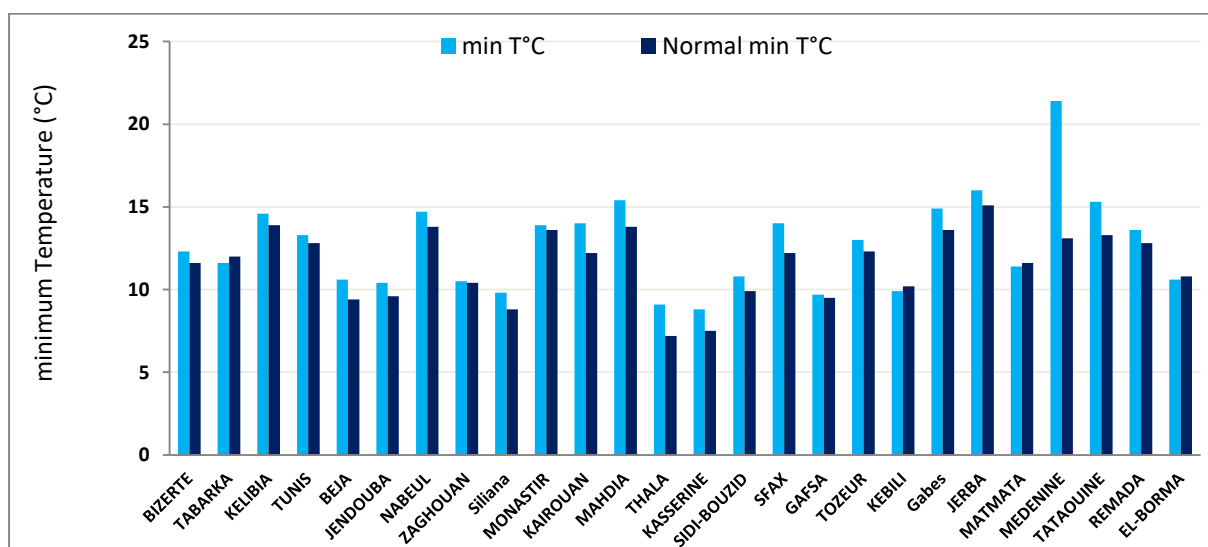
The average maximum temperature
of November 2022



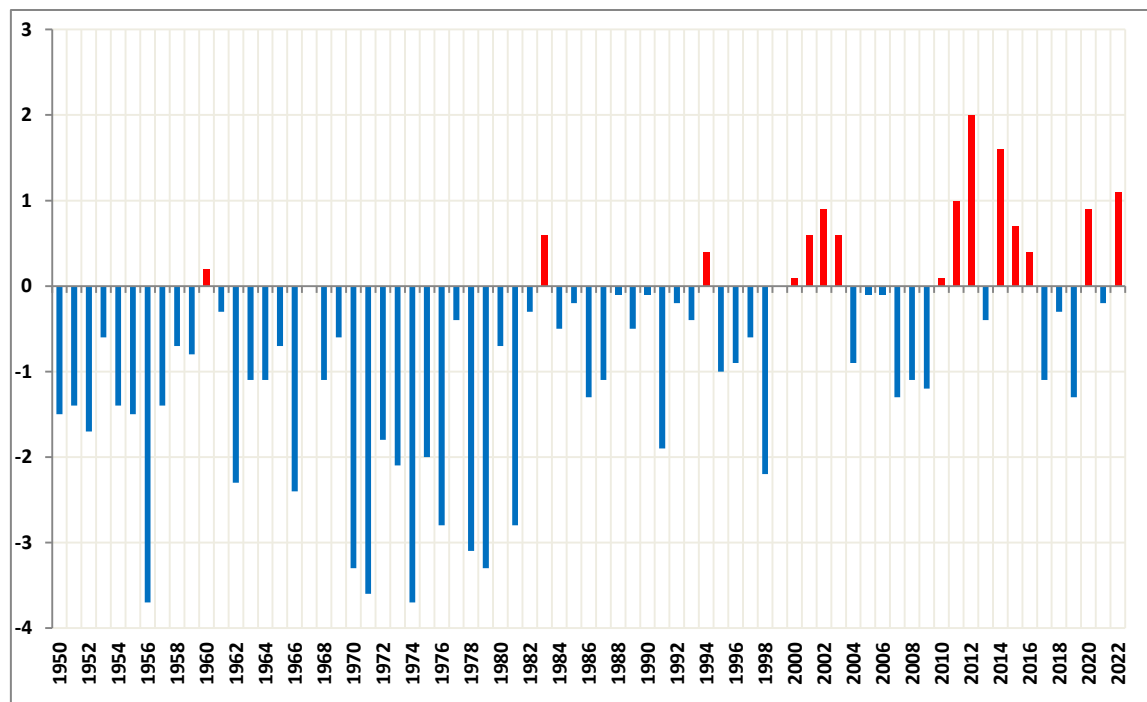
Difference between the average maximum
temperature and the reference rates

- Minimum temperature:

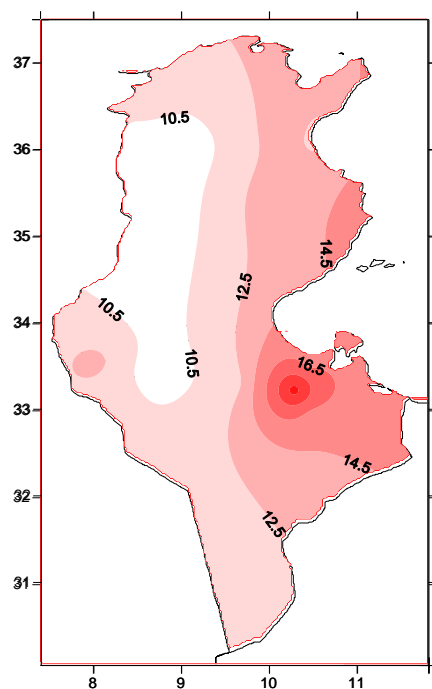
Minimum temperatures were also high, ranging between 8.8°C in Kasserine and 21.4°C in Medenine, and were above the reference rates in most regions, where the differences ranged from +0.1 °C in Zaghouan to +2.0 °C in Tataouine. The absolute minimum temperature reached 2.1°C in Kebili on November 30, 2022. As for the average minimum temperature, it was 12.7 °C, which was above the reference average (11.6 °C) with a difference of +1.1 °C.



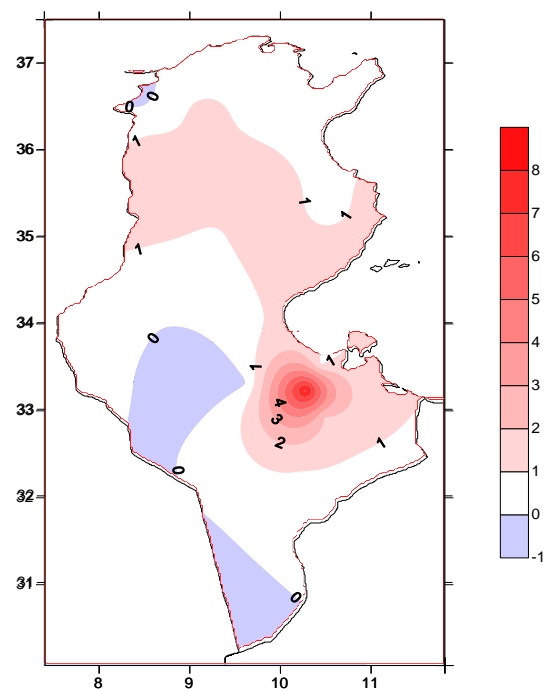
Comparison of the average minimum temperature of November 2022
with the reference rates (1991-2020)



The difference in the mean minimum temperature during November
relative to the reference rate (1991-2020) since 1950



The average minimum temperature
of November 2022

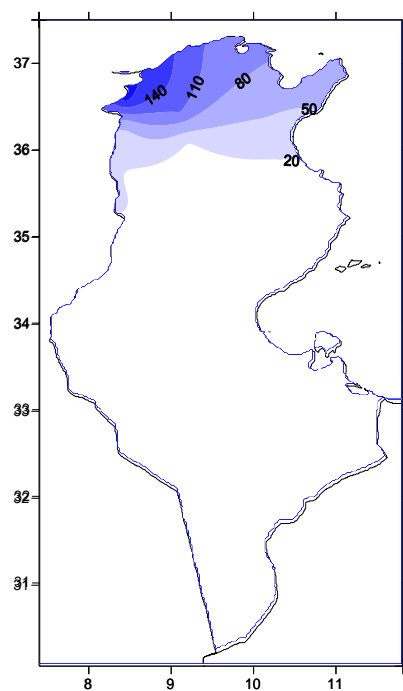


Difference between the average minimum
temperature and the reference rates

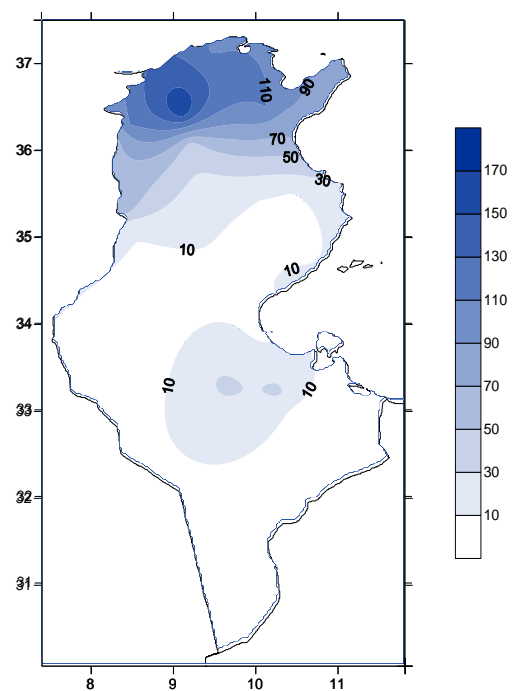
- Rain:

The monthly total amount of rain was low, and rain was absent in some central and southern regions, while the northern regions obtained amounts that locally exceeded the reference monthly total (1991-2020).

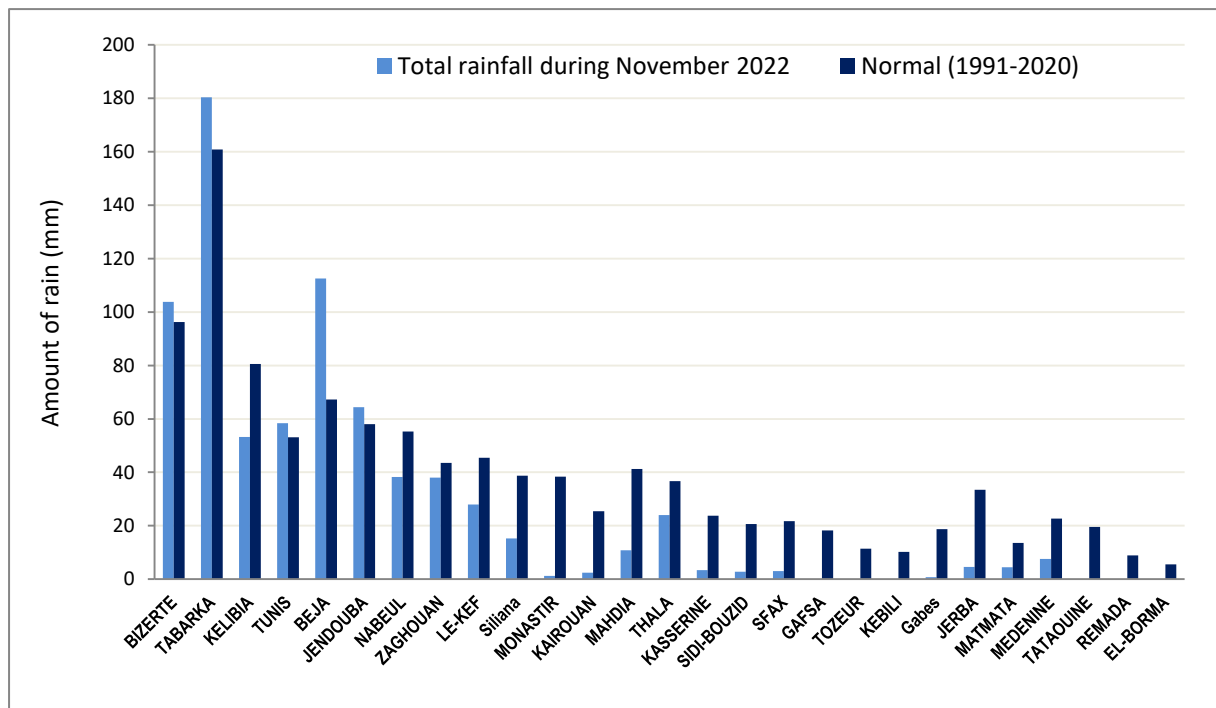
As for the general monthly total (27 main stations) for the month of November 2022, it amounted to 757.3 millimeters, while the monthly reference rate for the same stations was 1069 millimeters, thus the percentage of the decrease in the amounts of rain reached **30 %**.



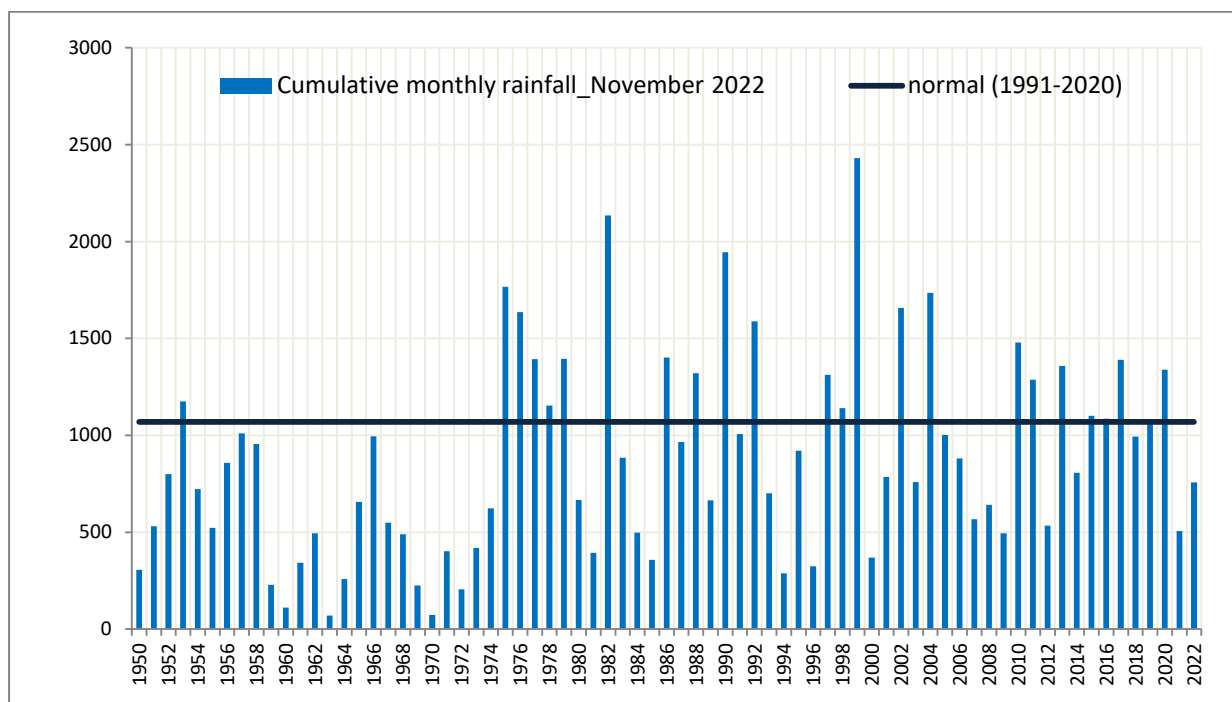
**Total rainfall amounts in the main stations
for the month of November 2022**



**Percentage of total rainfall of November 2022
to the reference monthly total (1991-2020)**



Comparison of the total amounts of rain (mm) of November 2022
with the reference total (1991-2020)



Total rainfall (mm) in all main stations for the month of November since 1950

- The winds :

The winds were generally weak to moderate, and their speed increased during the fifth day of the month in most regions, and its maximum speed ranged from 72 km/h in Beja to 97 km/h in Tabarka and reached 101 km/h in Thala.

The wind speed also increased during the ninth day of the month in the Cap Bon region reaching a maximum speed of 97 km / h in Nabeul.

The winds were strong on November 22 in most regions of the south, and their maximum speed ranged between 61 km / h in El Borma and 94 km / h in Tataouine, which generated sand phenomena on these regions.

The winds were also strong during the days of November 26 and 27, 2022 in most regions, with a maximum speed ranging between 58 km / h in Kebili and 97 km / h in Sfax.

On November 29, 2022, the winds were locally strong in Thala and Kasserine, with a maximum speed of 119 km / h in Kasserine.

(Figure No. 01 and Figure No. 02) :

Figure No.01

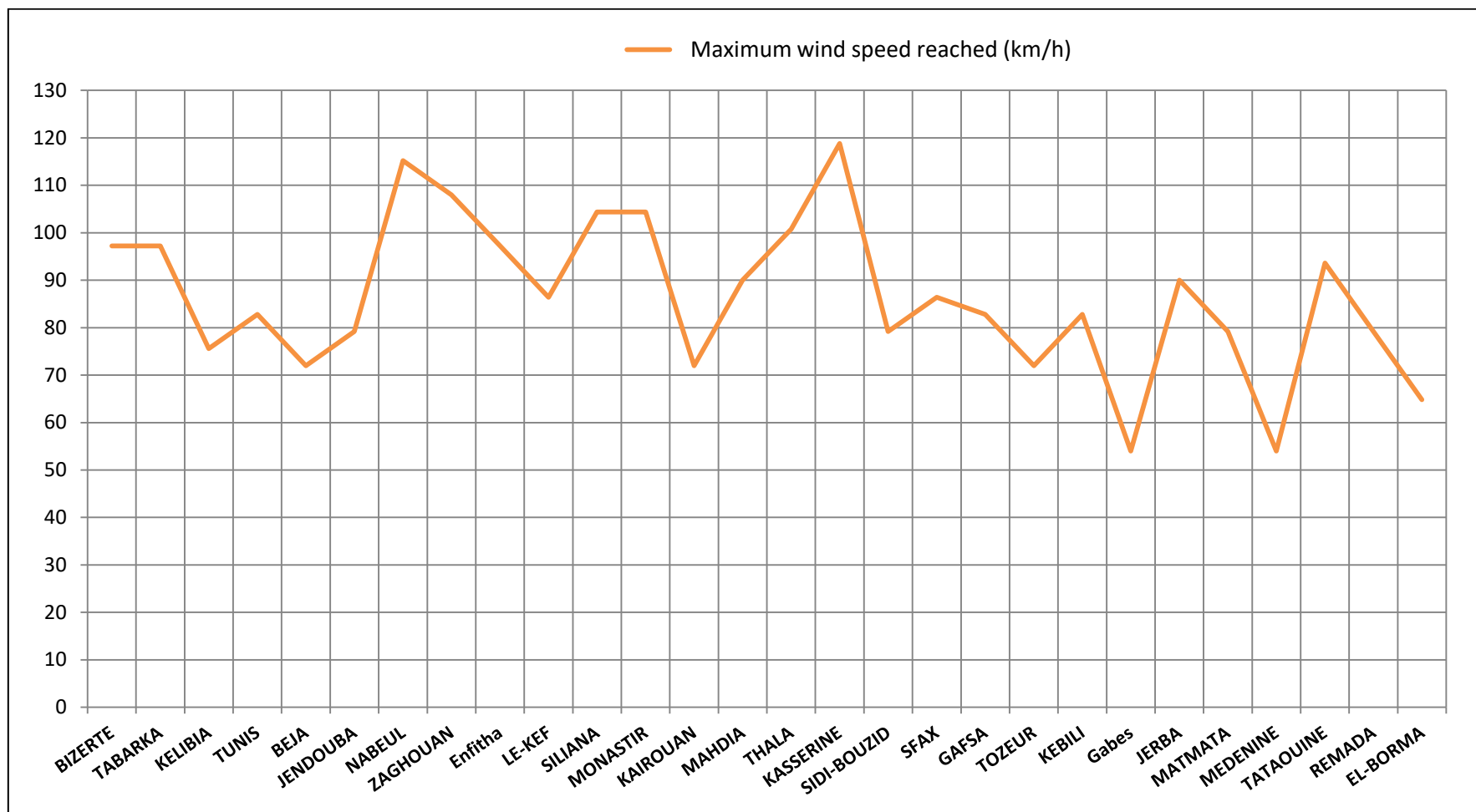


Figure No.02

