



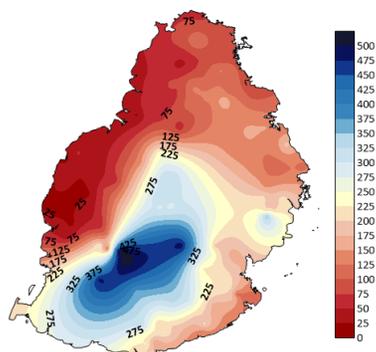
MAURITIUS METEOROLOGICAL SERVICES

CLIMATE FEBRUARY 2024

Introduction

February 2024 was a dry month and the mean temperature was close to the normal for the month. The El Nino Southern Oscillation (ENSO) was in the positive phase. The Indian Ocean Dipole (IOD) was in the neutral phase while the Subtropical Indian Ocean Dipole (SIOD) was in the negative phase. The Maden Julian Oscillation signal was weak in the Indian Ocean. Two tropical storms, namely Djoungou and Eleanor were formed in the South West Indian Ocean basin during the month. Only Eleanor evolved in the vicinity of the Mascarenes and influenced weather over Mauritius.

Monthly rainfall



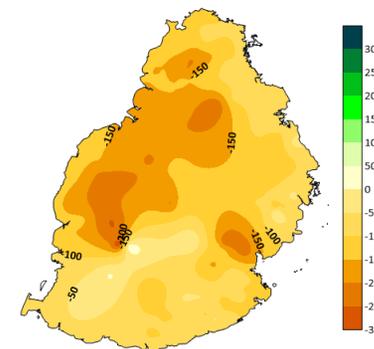
Rainfall

February 2024 was dry with a total of 201 mm of rainfall and which represents 62% of the long-term mean. Rainfall was deficient in almost all regions, especially over the western and northern parts of the island where it was deficient by 150-200 mm.

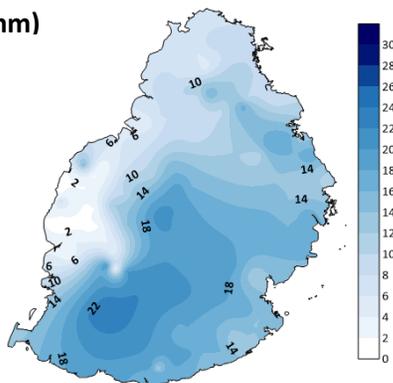
About 30% of the total rainfall was recorded in the first fortnight and the remaining amount in the second fortnight.

The highest cumulative rainfall for the month was 501.1 mm recorded at Good End.

Monthly rainfall Anomaly



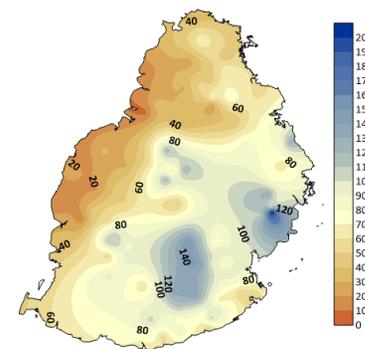
Rainfall days (> 1 mm)



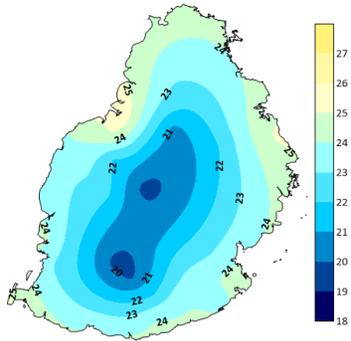
The highest number of rainy days (≥ 1 mm) was observed at Petrin and Plaine Champagne with 23 and 22 rainy days respectively. Elsewhere, the number of rainy days varied between 1 and 21.

Highest 24-hour rainfall was 212 mm recorded at Etoile, on 22 February.

Highest 24-hour Rainfall



Minimum Temperature



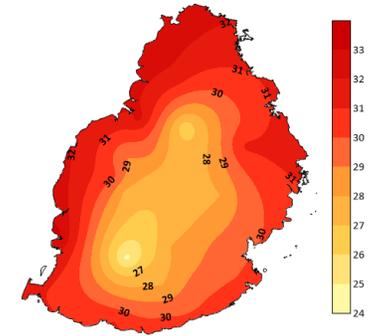
Temperature

The mean temperature over the island was 0.05 °C warmer than the LTM of 1991-2020. The mean minimum temperature was close to the normal and the mean maximum temperature was 0.1 °C warmer than the normal respectively.

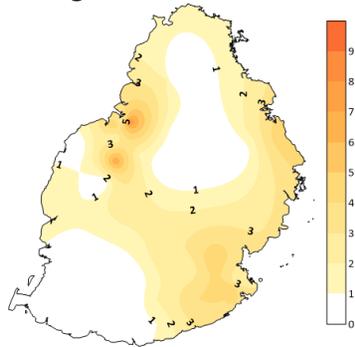
The highest maximum recorded was 35.4 °C at Riviere Noire on 15 February. The lowest maximum temperature recorded was 22.5 °C at Grand Bassin on 06 February.

The highest minimum was 28.0 °C at Port Louis, recorded on 13 and 14 February respectively. The lowest minimum was 16.8 °C at Belle Rive on 05 and 28 February respectively.

Maximum Temperature



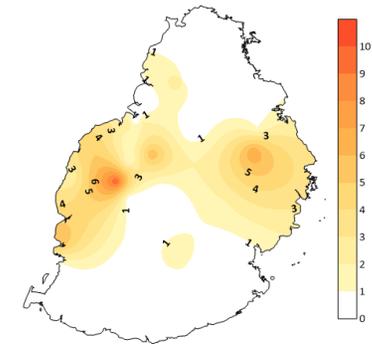
Warm nights



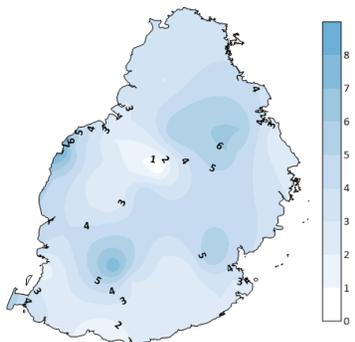
Few warm nights and warm days were recorded during the month. The highest number of warm nights observed was 08 at Champ de Mars and 07 at Reduit.

The highest number of warm days was 10 at Quatres Bornes and 07 at Queen Victoria.

Warm days



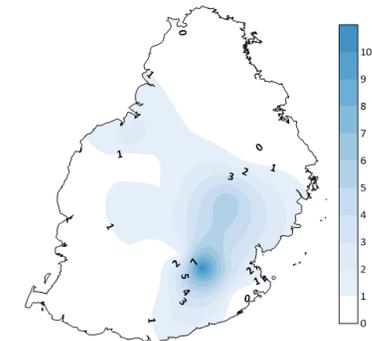
Cold nights

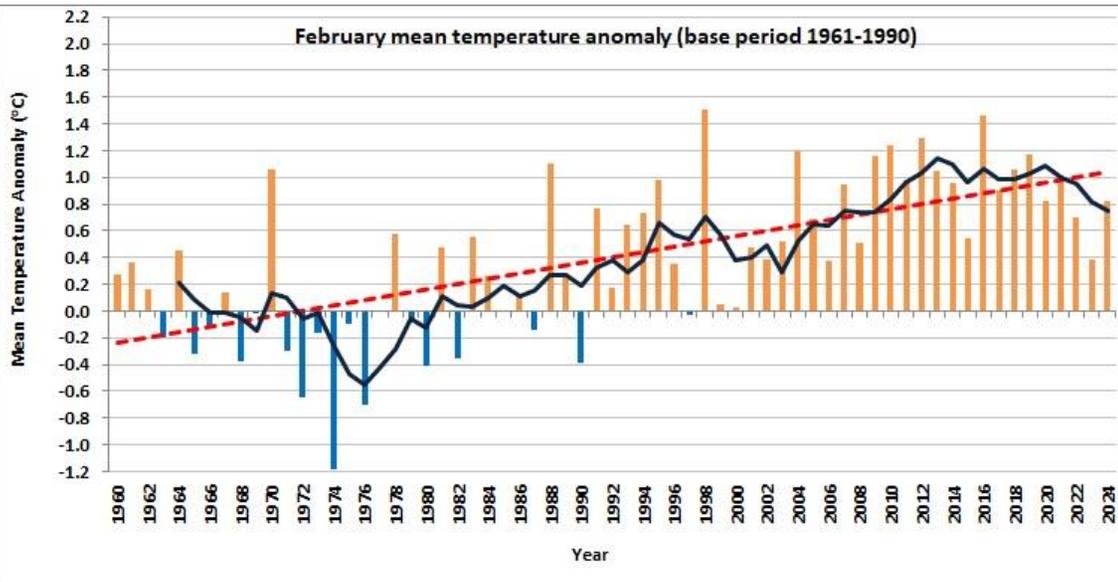


The highest number of cold nights was 09 at Albion and 08 at Grand Bassin.

The highest number of cold days was 11 at Rose Belle and 06 at Sans Souci.

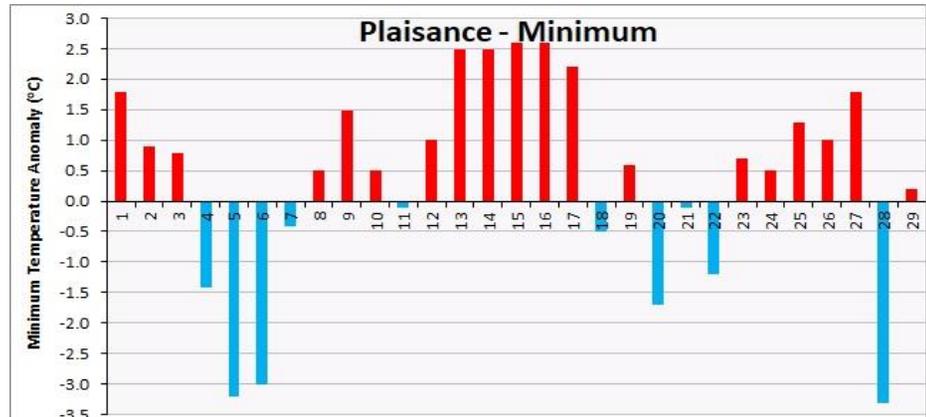
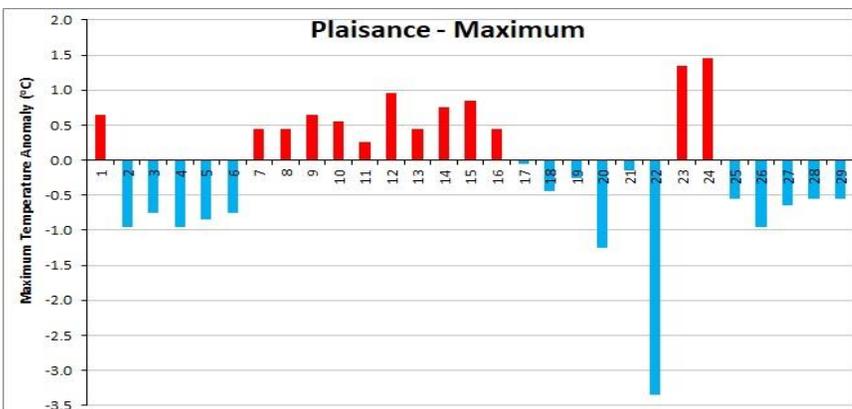
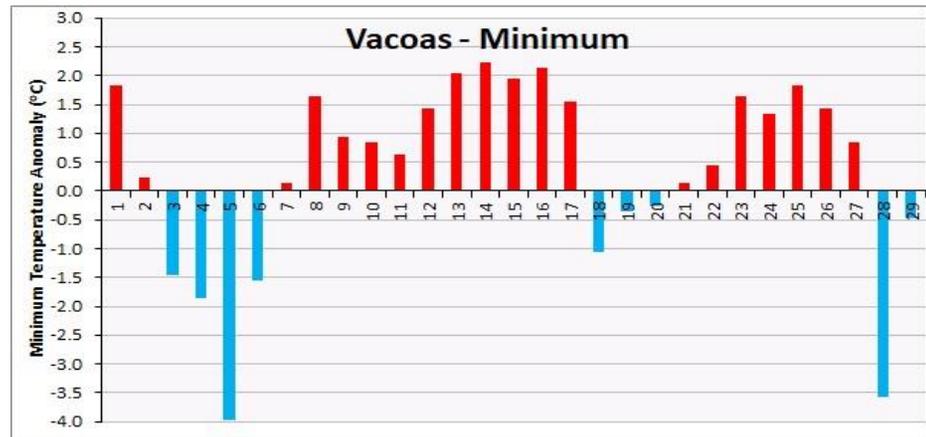
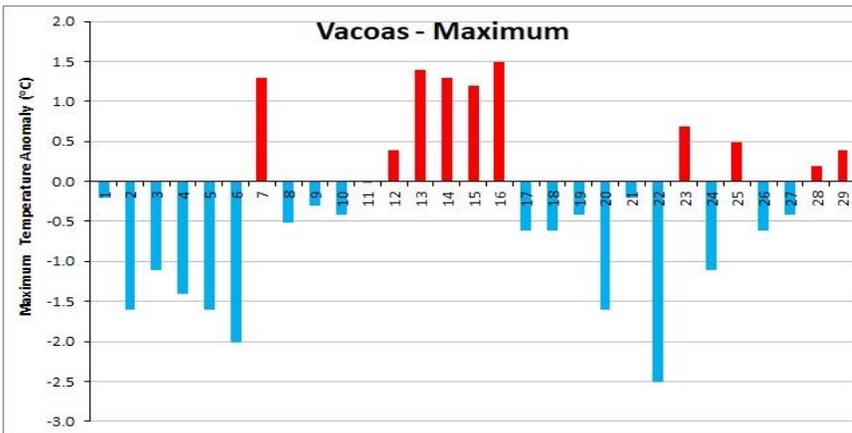
Cold days





Daytime temperatures were most of the time cooler than the normal both at Plaisance and Vacoas. A significant drop of about 2.5 °C was recorded at Vacoas on 22 February and a drop of about 3.5 °C was recorded at Plaisance.

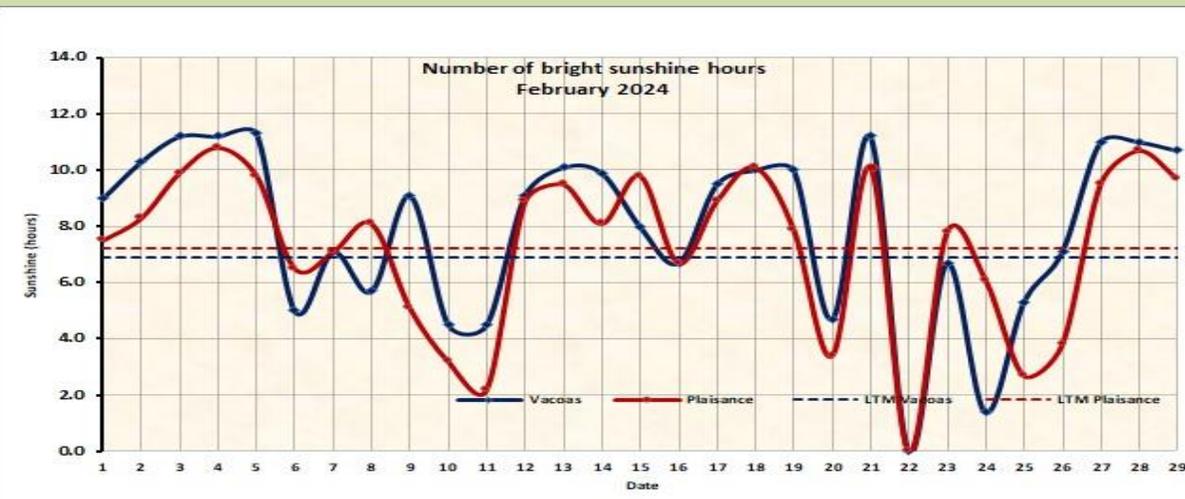
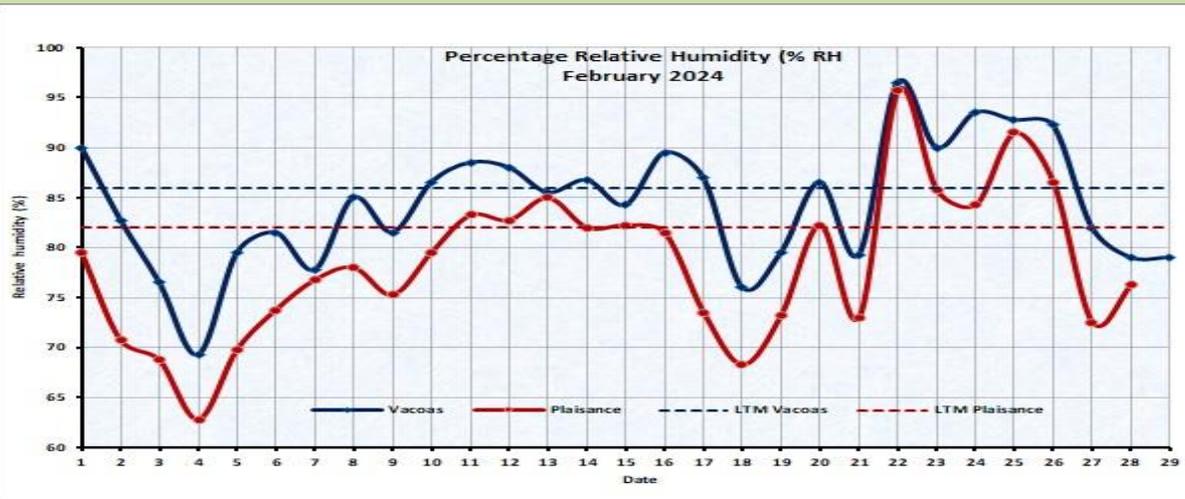
Night temperatures were warmer than the normal at both stations on most occasions. However, on a few occasions, during the first and last week of the month, a significant drop of about 2-3 °C in the minimum temperature was noted both at Vacoas and Plaisance.



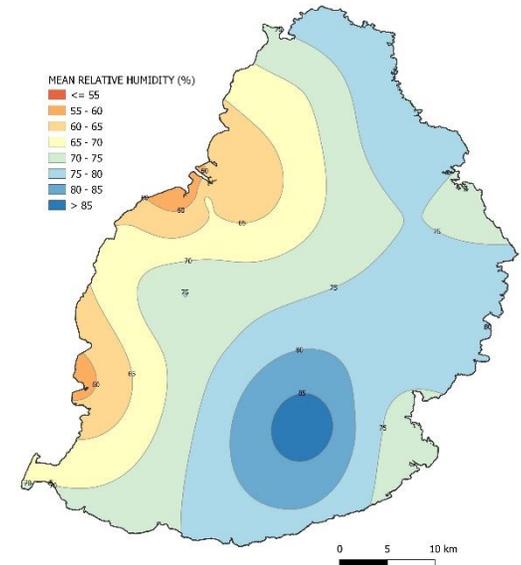
Sunshine and Humidity

On average the mean relative humidity for the month was close to the normal both at Vacoas and Plaisance. The daily humidity ranged from 69 to 94 % at Vacoas and from 63 to 96 % at Plaisance. A peak in the humidity was observed on 22 February due to the passage of STS Eleanor near Mauritius.

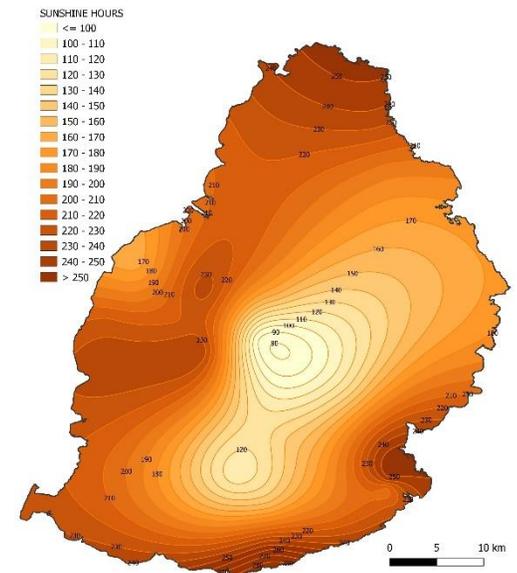
The number of daily bright sunshine hours were 116% of the normal at Vacoas and 102 % at Plaisance (anomaly of +1.1 at Vacoas and +0.1 at Plaisance). The highest number of sunshine hours at Vacoas was 11.3 (recorded on 05 February) and 10.8 at Plaisance (recorded on 04 February). The lowest number of sunshine hours was 0 both at Vacoas and at Plaisance (recorded on 22 February). The total number of monthly bright sunshine hours was 231.3 at Vacoas and 212.2 at Plaisance.



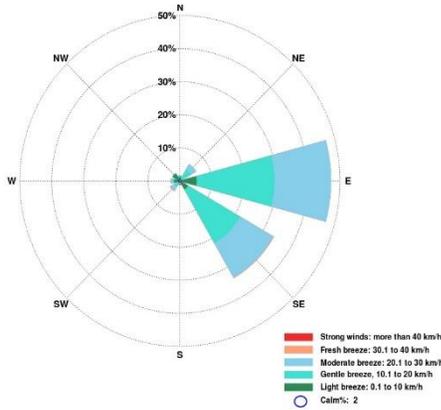
**Monthly mean humidity
February 2024**



**Monthly total sunshine hours
February 2024**



Winds



Wind frequencies from Plaisance (left) and Vacoas (right) show winds mainly from the Eastern sectors. Light to moderate winds prevailed most of the time over the island. However, on 22 February, due to the passage of tropical storm Eleanor in the vicinity of Mauritius, strong winds were recorded.

The highest gusts recorded over the island were as follows:

Regions	Highest gusts (km/h)	Date
Champ de Mars	112	22
Signal Mt.	111	22
Q. Victoria	90	22
Bell Village	90	22
Domaine. les Pailles	79	22
Grand Bassin	79	22
Vacoas	76	22
Plaisance	76	22

