



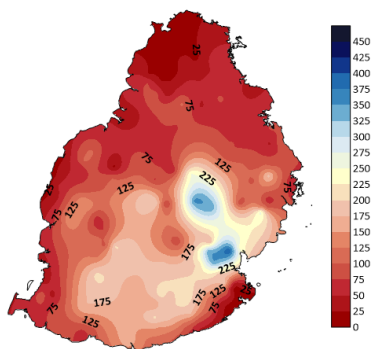
MAURITIUS METEOROLOGICAL SERVICES

CLIMATE DECEMBER 2024

Introduction

Rainfall was slightly below normal for December 2024 and the mean temperature was warmer than the normal for the month. The El Nino Southern Oscillation (ENSO) and the Indian Ocean Dipole (IOD) were in the negative phase while the Subtropical Indian Ocean Dipole (SIOD) was in the positive phase. The signal of the Maden Julian Oscillation (MJO) was weak in the Indian Ocean during the month.

Monthly rainfall



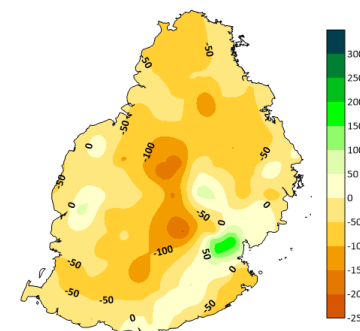
Rainfall

Slightly below normal rainfall was recorded during the month of December 2024, amounting to 135 mm and representing 82% of the long-term mean. The Northern regions of Mauritius recorded the lowest percentage (54%) of the long term mean rainfall for the month.

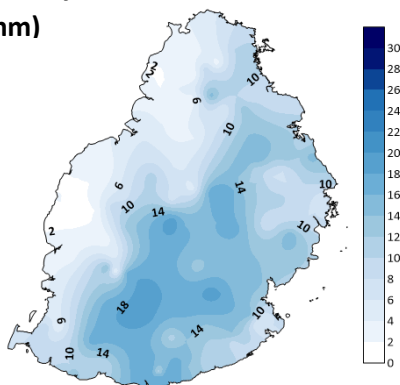
About 37% of the total rainfall was recorded in the first fortnight and the remaining 63% was recorded in the second fortnight.

The highest cumulative rainfall for the month was 400.1 mm, recorded at Le Vallon.

Monthly rainfall Anomaly



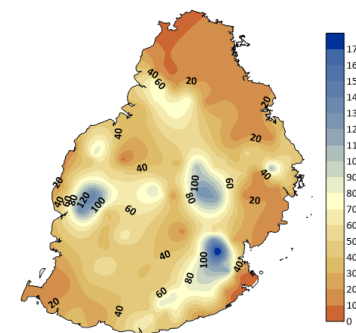
Rainfall days (> 1 mm)



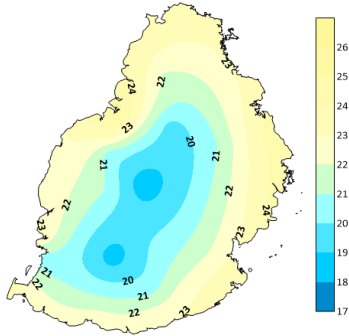
The highest number of rainy days (≥ 1 mm) was observed at Union Park MSIRI and Arnaud with 21 and 17 rainy days respectively.

Highest 24-hour rainfall was 197.3 mm recorded at Riche en Eau, on 29 December.

Highest 24-hour Rainfall



Minimum Temperature

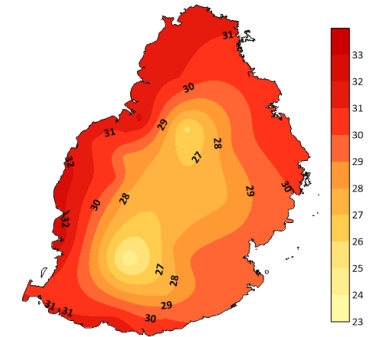


Temperature

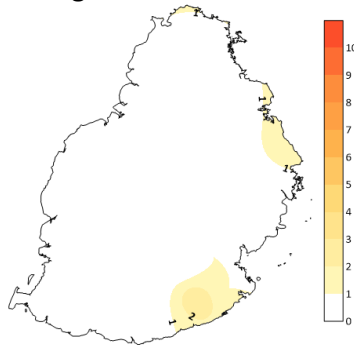
The highest maximum was 34.7 °C at Riviere Noire, recorded on 19 December. The lowest maximum temperature recorded was 22.9 °C at Grand Bassin on 07 December.

The highest minimum was 26.6 °C at Port Louis, recorded on 28 December and the lowest minimum was 16.2 °C at Alma, recorded on 09 and 12 December.

Maximum Temperature



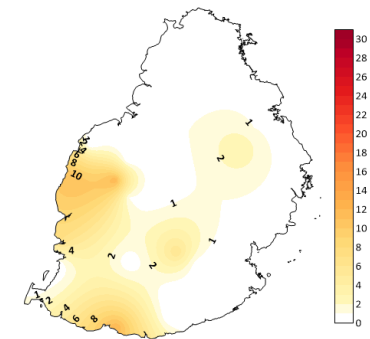
Warm nights



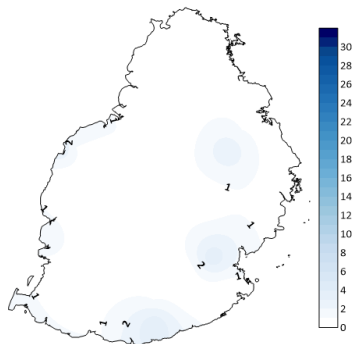
The highest number of warm nights observed was 03 at La Baraque and 02 at Pamplémousses and Belle Mare.

The highest number of warm days was 12 at St Felix and Quatre Bornes, and 11 at Medine.

Warm days



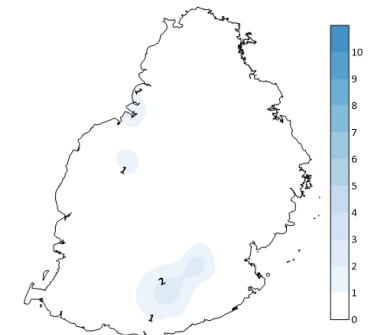
Cold nights

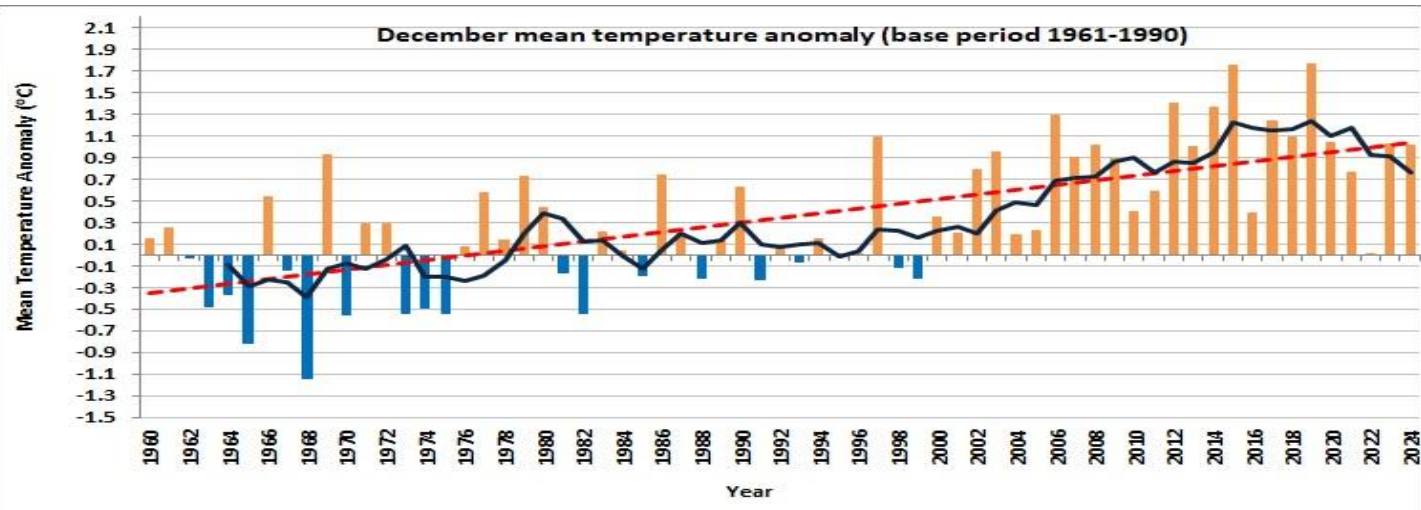


The highest number of cold nights recorded was 04 at Riche en Eau and Riviere des Anguilles, and 03 at Fuel and Albion.

The highest number of cold days was 05 at Pamplémousses, and 03 at Britania and Rose Belle.

Cold days

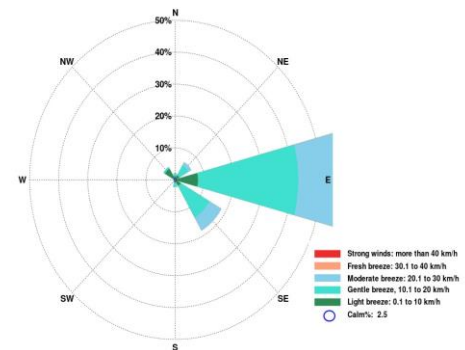




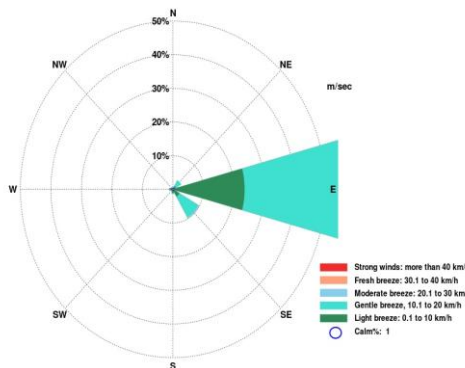
The mean temperature over the island was 0.4 °C warmer than the LTM of 1991-2020.

The mean maximum temperature was 0.3 °C warmer than long-term mean and the mean minimum temperature was 0.4 °C warmer than the long-term mean.

Winds



Plaisance



Vacoas

Wind frequencies show winds mainly from the Eastern sector both at Plaisance (top) and at Vacoas (bottom). Light to moderate winds prevailed most of the time over the island.

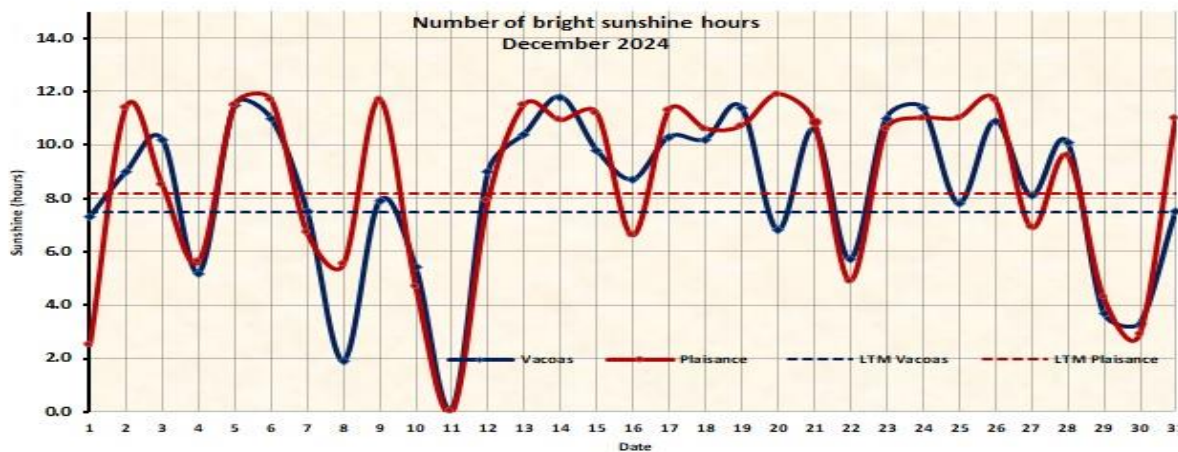
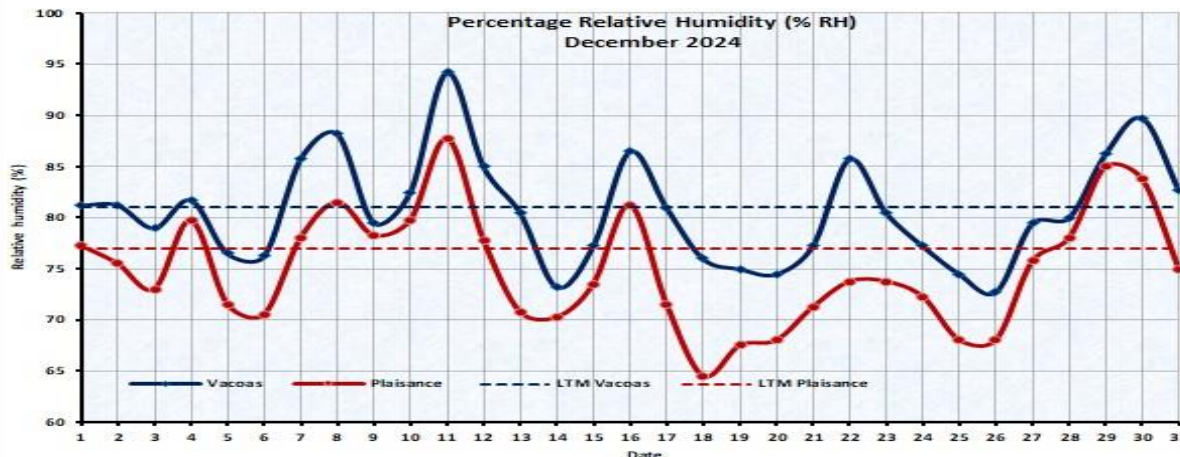
The highest gusts recorded during December 2024 were as follows:

Regions	Highest gusts (km/h)	Date
Riv des Anguilles	79	29
Signal Mt.	62	19
Quatre Soeurs	61	11
Champ de Mars	58	11
St. Felix	58	16
Vacoas	58	18
Plaisance	57	17,18
Bagatelle Dam	57	11

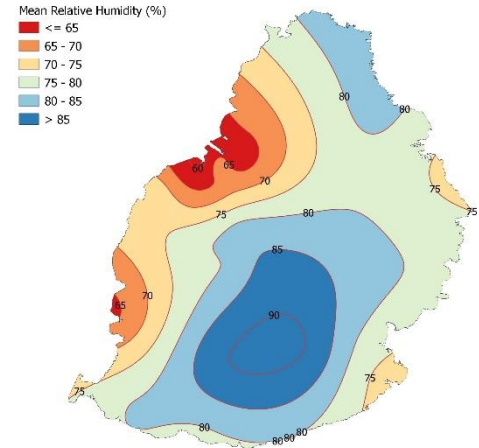
Sunshine and Humidity

The mean relative humidity for the month was 81% at Vacoas and 75% at Plaisance. The daily humidity ranged from 73% to 94% at Vacoas and from 65% to 88% at Plaisance.

The average number of daily bright sunshine hours were 109% of the normal at Vacoas and 105% at Plaisance (anomaly of +0.7 at Vacoas and +0.3 at Plaisance). The highest number of sunshine hours was 11.8 at Vacoas (recorded on 14 December) and 11.9 at Plaisance (recorded on 20 December). The lowest number of sunshine hours was 0.1 at Vacoas and 0.0 at Plaisance (recorded on 11 December at both stations). The total number of bright sunshine hours for the month was 255.5 at Vacoas and 267.2 at Plaisance.



Monthly mean humidity
December 2024



Monthly total sunshine hours
December 2024

