



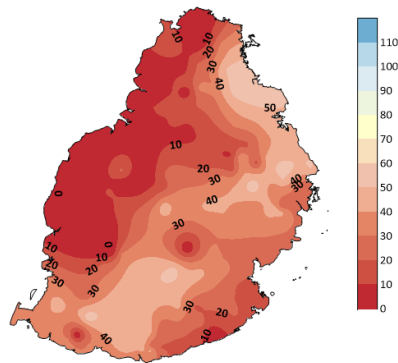
MAURITIUS METEOROLOGICAL SERVICES

CLIMATE NOVEMBER 2022

Introduction

November 2022 was dry being the fourth driest since the last 30 years. The mean temperature over the island was cooler than normal. La-Nina conditions persisted during the month while the Indian Ocean Dipole (IOD) and the Subtropical Indian Ocean Dipole (SIOD) were in the neutral phase. The Madden Julian Oscillation (MJO) was weak in the Indian Ocean during November 2022.

Monthly rainfall

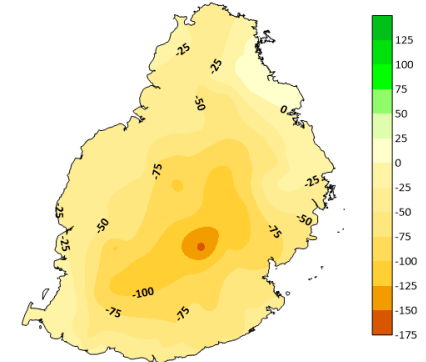


Rainfall

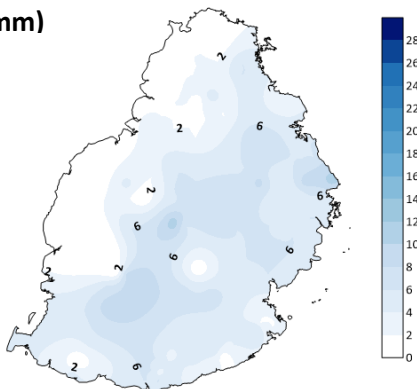
Dry conditions prevailed in November 2022 with only 33 mm of rainfall, representing 39 % of the long-term mean. Rainfall was deficient almost over the whole island, especially in the region of Arnaud, Bois Cheri, Union Park and Sans Souci where it was deficient by 100 to 175 mm. Elsewhere, rainfall was deficient by about 25 to 100 mm.

The highest cumulative rainfall for the month was 57.8 mm recorded at Clemencia.

Monthly rainfall Anomaly



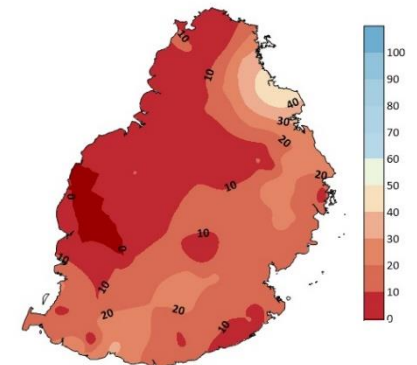
Rainfall days (> 1 mm)



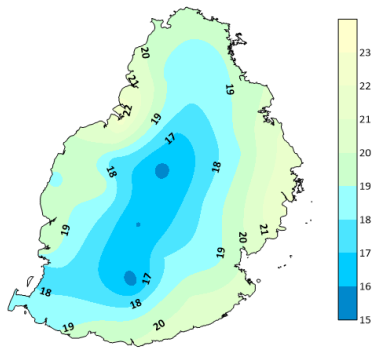
The highest number of rainy days (≥ 1 mm) was at Belle Rive and Palmar with 11 rainy days with mostly light rain. There were no raindays to the west and the northwest.

Highest 24-hour rainfall was 50.0 mm recorded at Haute Rive on 04 November 2022.

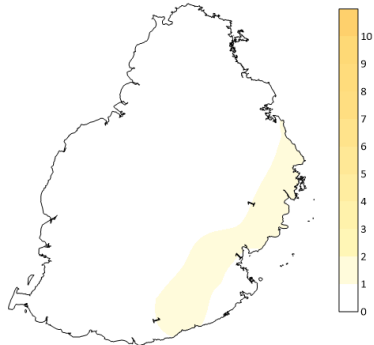
Highest 24-hour Rainfall



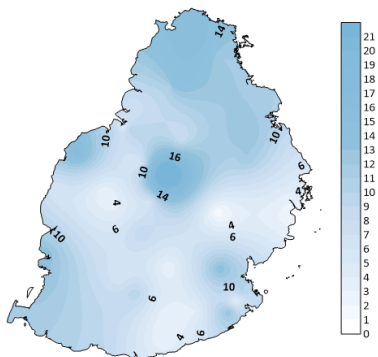
Minimum Temperature



Warm nights



Cold nights



Temperature

The mean temperature over the island was $-0.98\text{ }^{\circ}\text{C}$ cooler than the LTM of 1991-2020. The mean minimum temperature and the mean maximum temperature were $-1.6\text{ }^{\circ}\text{C}$ and $-0.4\text{ }^{\circ}\text{C}$ cooler than the normal respectively. The highest maximum recorded was $33.2\text{ }^{\circ}\text{C}$ at St Felix on Day 23 and Day 30. The lowest maximum temperature recorded was $18.9\text{ }^{\circ}\text{C}$ at Grand Bassin on Day 14. It was equally warm to the east and the western and northern parts of the island. The lowest minimum was $11.5\text{ }^{\circ}\text{C}$ at Mon Bois on Day 16. Record minimum temperatures for the month were observed at several places:

Station	New Minimum Temperature
Ferret	13.5
Pamplemousses	12.5
Bois Mangué	15.9
Queen Victoria	14.9
Belle Village	17.9
Champs de Mars	17.1
Rivière Noire	17.3
Mon Bois	11.5
Le Morne	18.5
Domaine Les Pailles	15.5
Nouvelle Découverte	13.7
Rose Belle	15.8
Mon Desert Mon Tresor	17.0
Riche en Eau	14.4

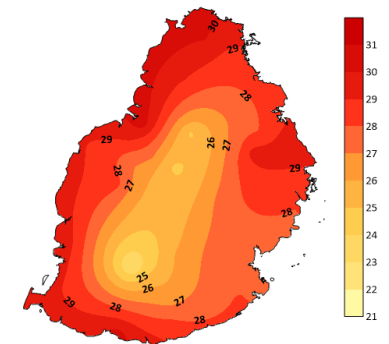
Practically no warm nights were observed during the month whereas a few warm days were observed particularly to the east and over the coastal areas.

The highest number of warm days was 13 at Queen Victoria. Elsewhere, the number of warm days was less than 10.

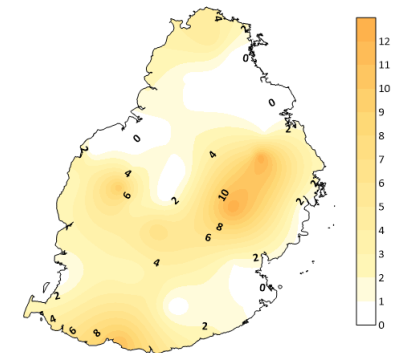
Nights were particularly cold across the island during the month. The highest number of cold nights recorded was 30 at Alma and 20 at Pamplemousses.

A few cold days were observed particularly to the north and over part of the Central Plateau. The highest number of cold days was 17 at Pamplemousses.

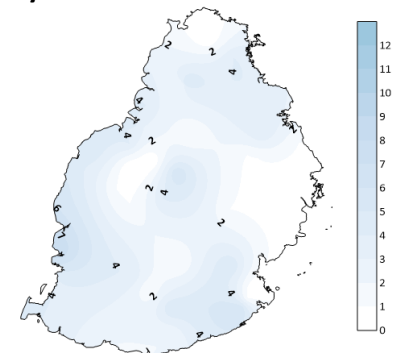
Maximum Temperature

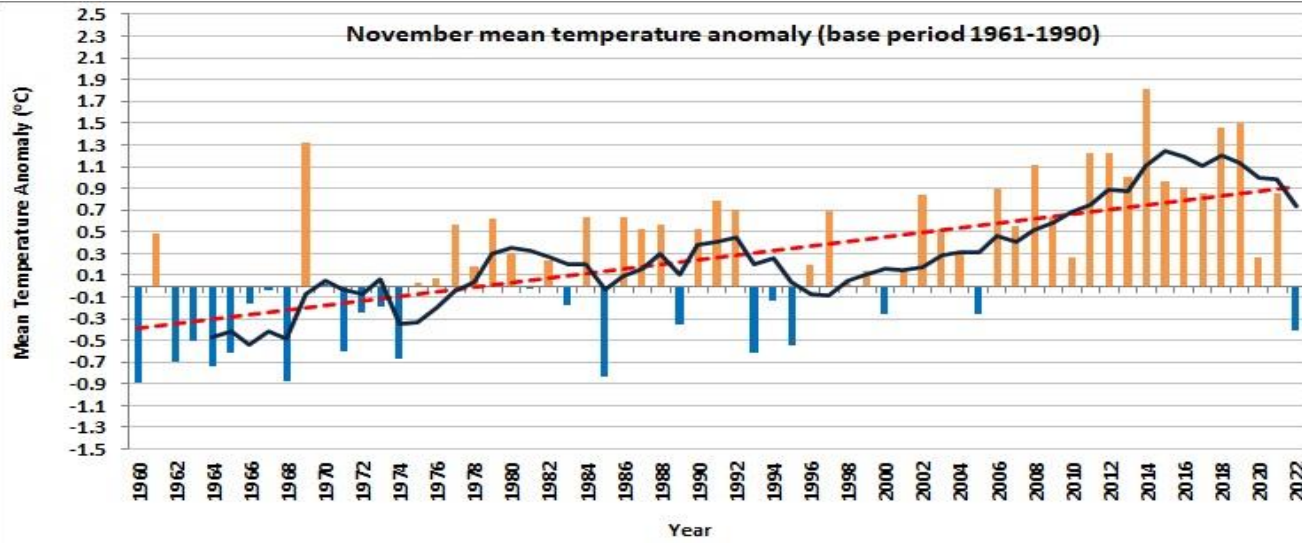


Warm days



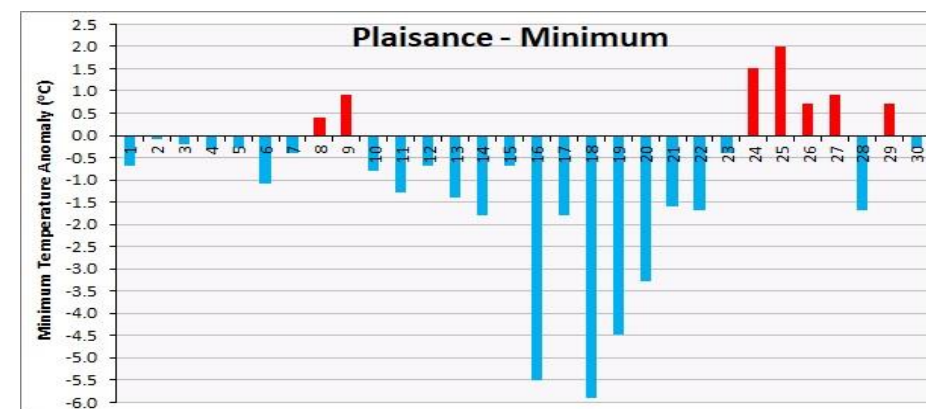
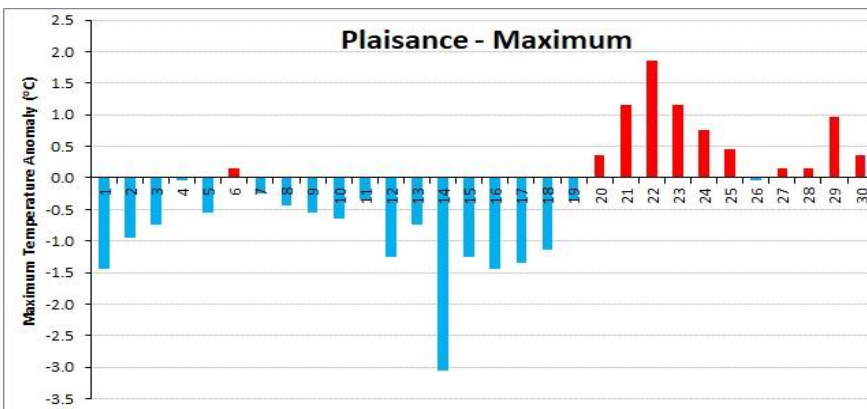
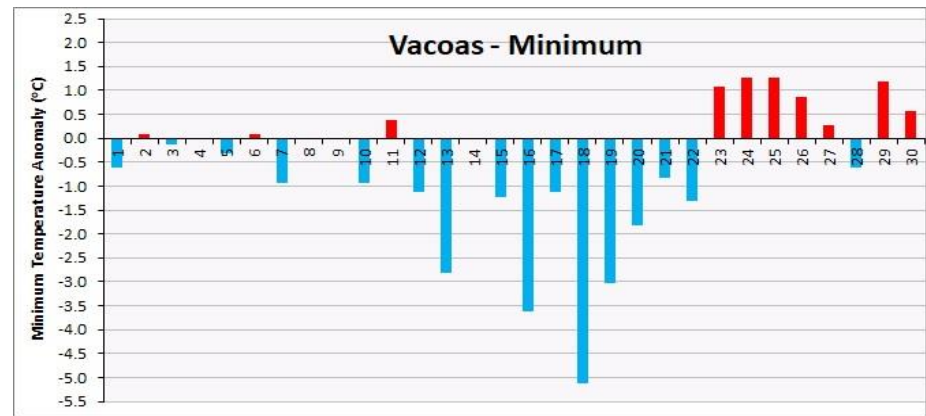
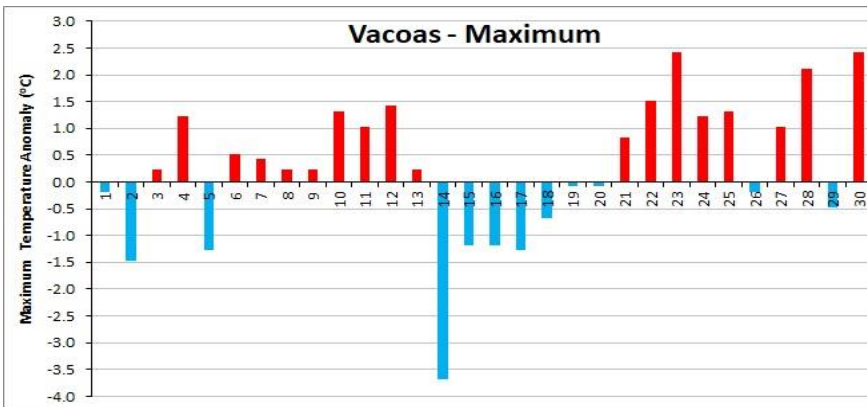
Cold days





November 2022 was the coolest in the last 27 years.

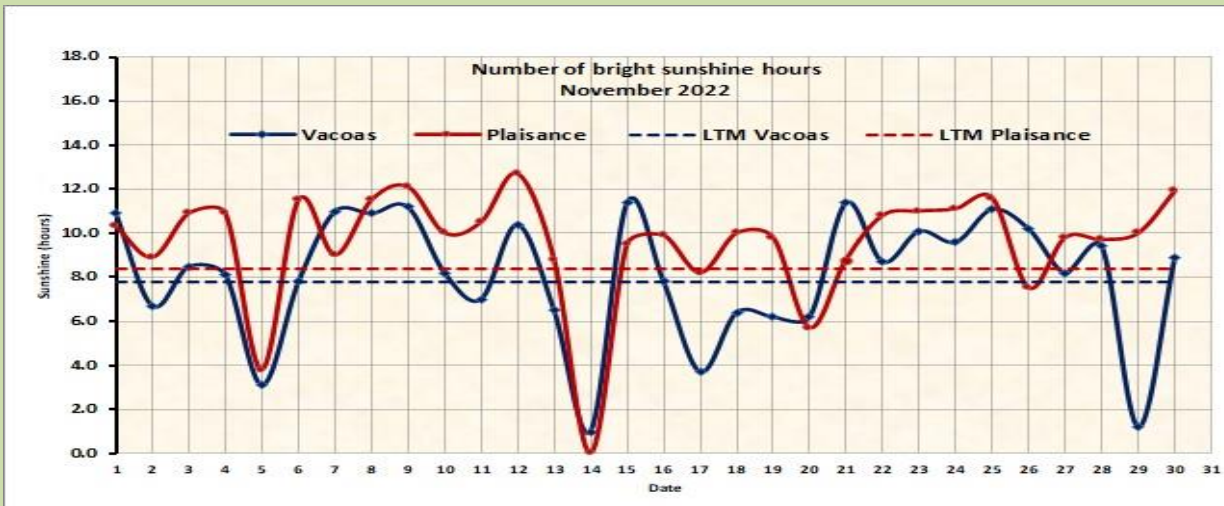
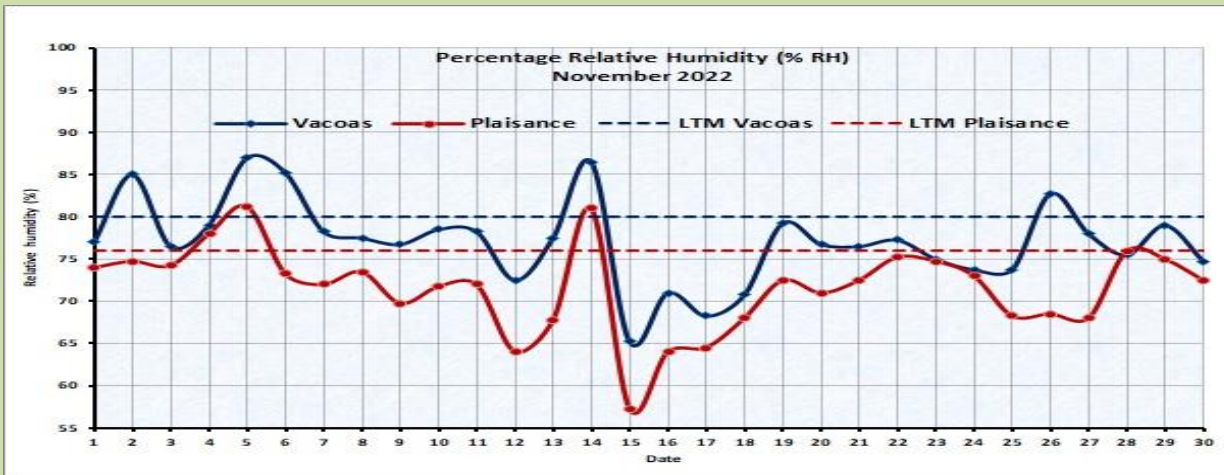
Temperatures were cooler during most of the month, Warmer conditions (both day and night) settled during the last week. Nights were cooler by 3 to 6 °C during the third week. However, a warming of 0.5 to 2°C on average settled during the last week which persisted till the end of the month.



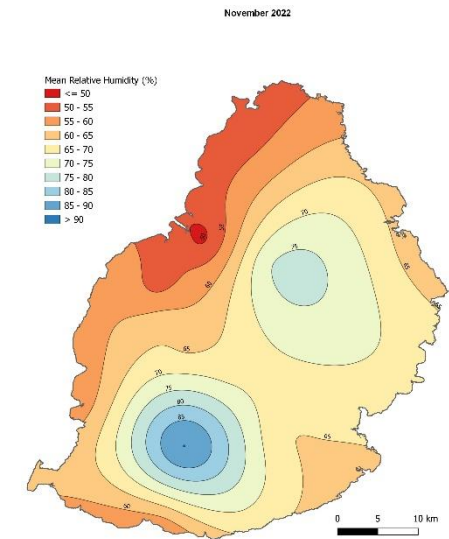
Sunshine and Humidity

The mean relative humidity for the month was close to the normal at both at Vacoas and Plaisance. The daily humidity ranged from 65 to 87% at Vacoas and from 57 to 81 % at Plaisance.

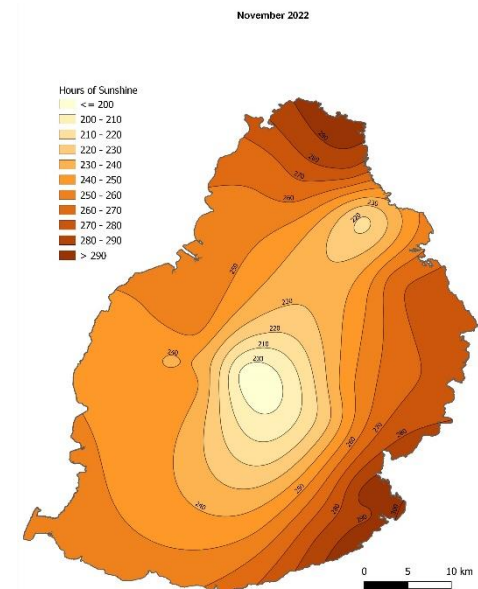
The number of daily bright sunshine hours were 103 % of the normal at Vacoas and 114 % at Plaisance (anomaly of +0.3 at Vacoas and +1.1 at Plaisance). The highest number of sunshine hours at Vacoas was 11.4 (recorded on Day 15 and Day 21) and 12.7 at Plaisance (recorded on Day 12). The lowest number of sunshine hours was 1.0 at Vacoas and 0.0 at Plaisance (recorded on Day 14 at both stations). The total number of monthly bright sunshine hours was 241.8 at Vacoas and 286.2 at Plaisance.



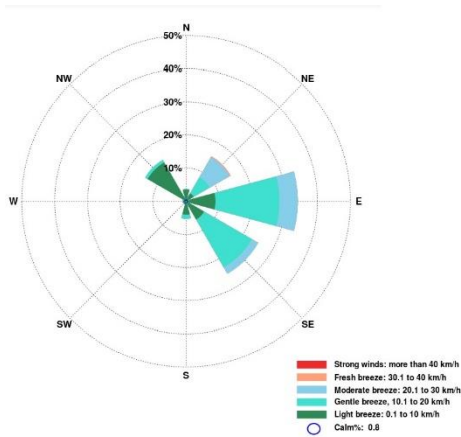
Monthly mean humidity



Monthly total sunshine hours



Winds

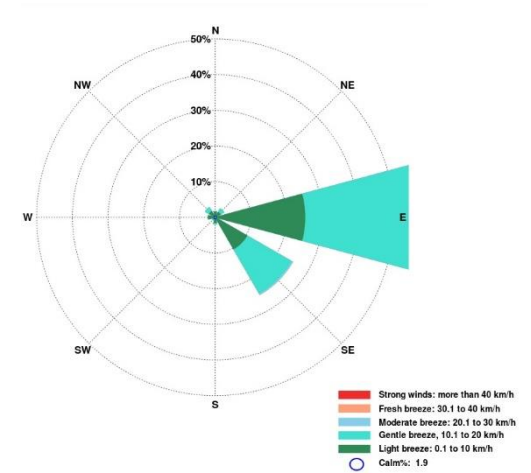


Wind frequencies from Plaisance (left) and Vacoas (right) show winds mainly from the eastern and south eastern sectors. Nevertheless, on a few occasions, Plaisance recorded winds from the north eastern and north western sectors.

Light to moderate winds prevailed most of the time over the island.

The highest gusts recorded over the island were as follows:

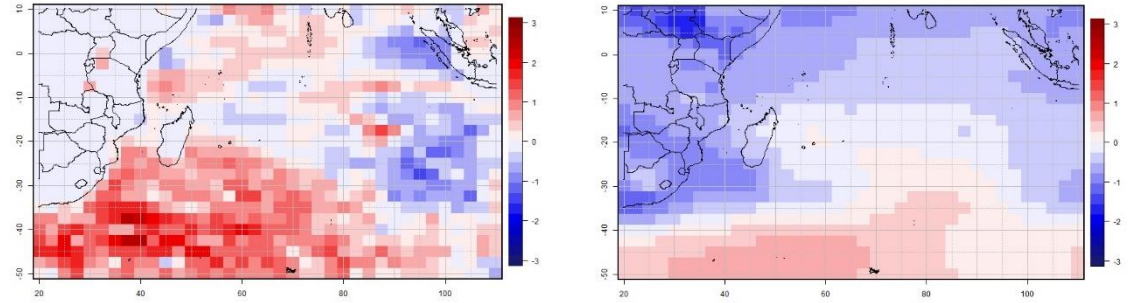
Regions	Highest gusts (km/h)	Date
Champ de Mars	65	14
Vacoas	56	26
Albion	54	14
N. Decouverte	54	26
St. Felix	54	26



FORECAST FOR JANUARY-FEBRUARY-MARCH (JFM)

La Nina is expected to persist during January and neutral ENSO conditions gradually establishing in the equatorial Pacific Ocean by the end of the forecast period. IOD and SIOD also are expected to be in the neutral phase.

Sea Surface Temperature (SST) is expected to be warmer than normal to the south of the Mascarene and slightly cooler to the north while the pressure anomaly will be close to the normal in the Mascarene region.



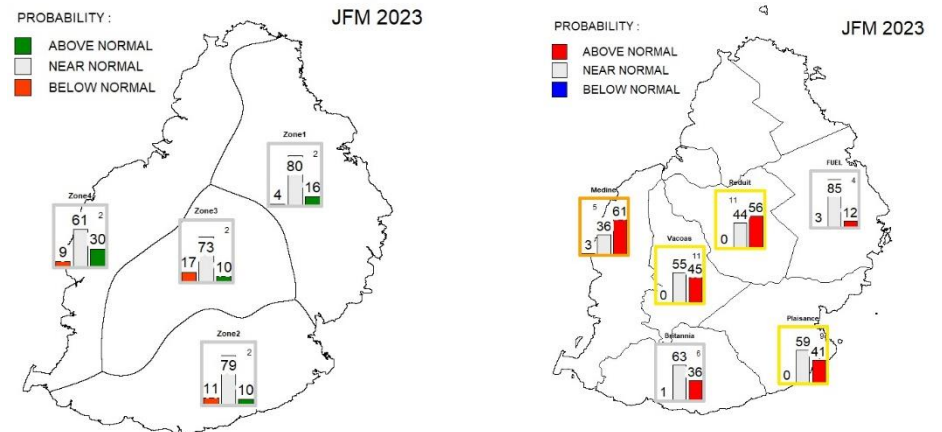
(a) Sea surface temperature and (b) pressure anomaly charts for JFM 2023

Consensus forecast for Mauritius

Cumulative rainfall for January to March is expected to be below normal. The monthly rainfall forecast consensus is as follows: -

- January: below normal (~ 180 mm)
- February: below normal (~ 240 mm)
- March: normal (~ 280 mm)

Mean temperature is forecasted to be near normal over the whole island.



Statistical Model Forecast of (a) rainfall and (b) temperature for JFM 2023

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Ag. Director, Meteorological Services,
St Paul; Road Vacoas,

Tel: 6861031/32, Fax: 6861033, email: meteo@intnet.mu

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