



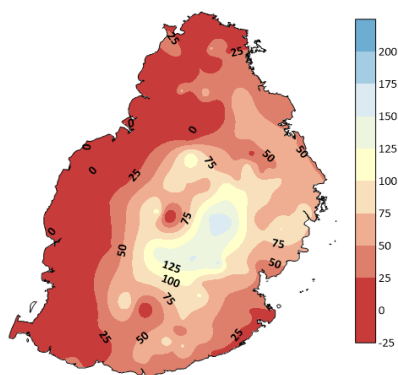
# MAURITIUS METEOROLOGICAL SERVICES

## CLIMATE AUGUST 2022

### Introduction

August 2022 was the fourth driest since the last 32 years. The amount of rainfall recorded during the month was well below the normal. La-Nina conditions persisted during the month. The Indian Ocean Dipole (IOD) was in the negative phase while the Subtropical Indian Ocean Dipole (SIOD) was neutral. The Madden Julian Oscillation (MJO) evolved in the Indian Ocean during the second fortnight of August.

### Monthly rainfall

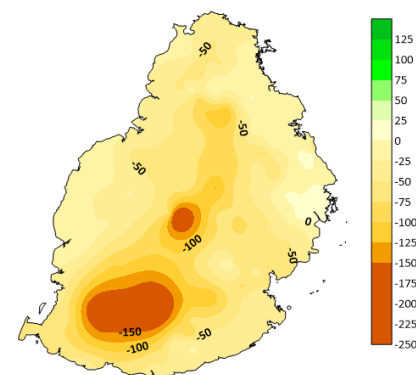


### Rainfall

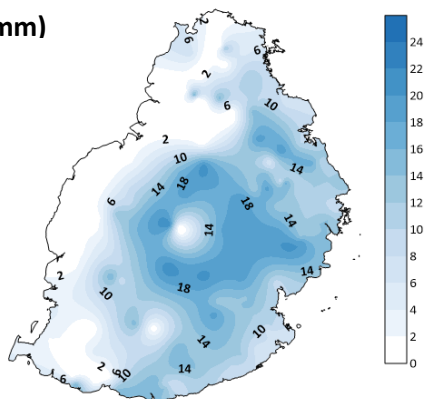
Well below normal rainfall was recorded during August 2022, amounting to 61 mm and representing 56 % of the long-term mean. About two third of the rainfall amount was recorded in the first fortnight and the remaining in the second fortnight. Rainfall was deficient almost over the whole island, especially over the central plateau where it was deficient by 100 to 175 mm. Elsewhere, rainfall was deficient by 25 to 100 mm.

The highest cumulative rainfall for the month was 161.9 mm recorded at Sans Souci.

### Monthly rainfall Anomaly



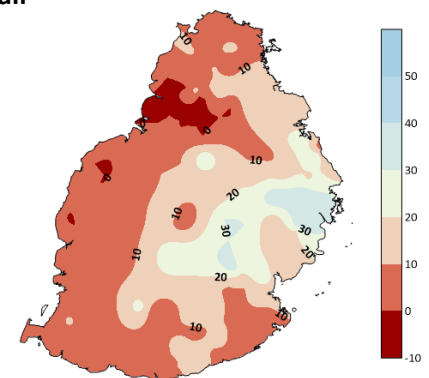
### Rainfall days (> 1 mm)



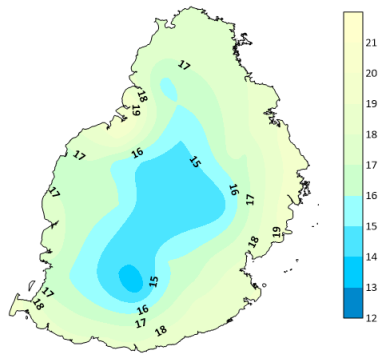
Mostly light rain was observed during the month. The highest number of rainy days ( $\geq 1$  mm) was observed at Mon Bois and Belle Rive with 22 rainy days. The extreme west, the south west and the north of the island recorded very few rainy days.

Highest 24-hour rainfall was 39.6 mm recorded at Trois Ilots on 01 August 2022.

### Highest 24-hour Rainfall



### Minimum Temperature



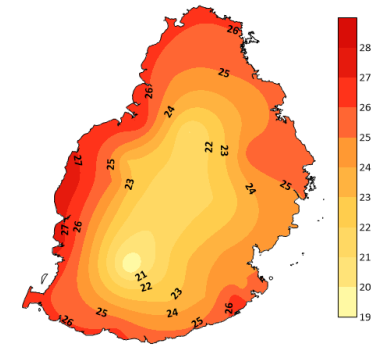
## Temperature

The mean temperature over the island was  $-0.24\text{ }^{\circ}\text{C}$  cooler than the LTM of 1991-2020. The mean minimum temperature was  $-0.7\text{ }^{\circ}\text{C}$  cooler than the normal whereas the mean maximum temperature was  $0.2\text{ }^{\circ}\text{C}$  warmer.

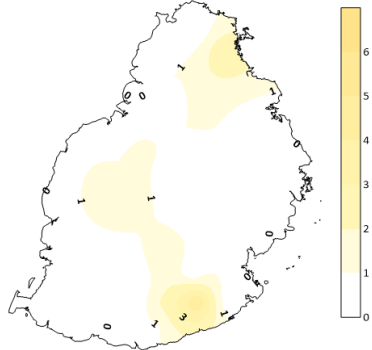
The highest maximum recorded was  $29.5\text{ }^{\circ}\text{C}$  at Medine on Day 29 and Day 30. The lowest maximum temperature recorded was  $16.2\text{ }^{\circ}\text{C}$  at Grand Bassin on Day 10.

The highest minimum was  $22.5\text{ }^{\circ}\text{C}$  at Port Louis on Day 28. The lowest minimum was  $11.3\text{ }^{\circ}\text{C}$  at Bois Cheri recorded on Day 03.

### Maximum Temperature



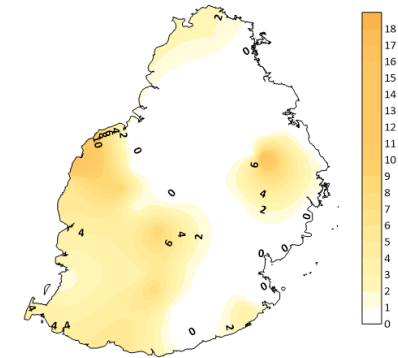
### Warm nights



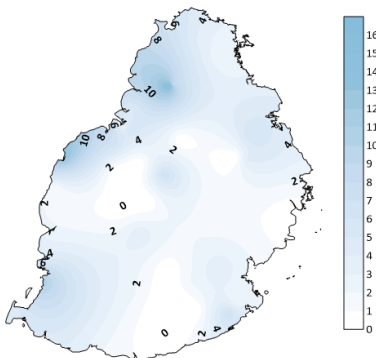
Very few warm nights were observed over the island during the month. The highest number of warm nights was 5 at La Baraque.

Days were particularly warm to the extreme east and west of the island: 17 warm days in the region of Albion and 14 at Queen Victoria. Elsewhere, the number of warm days was less than 10.

### Warm days



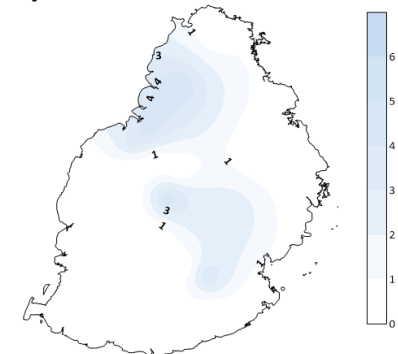
### Cold nights

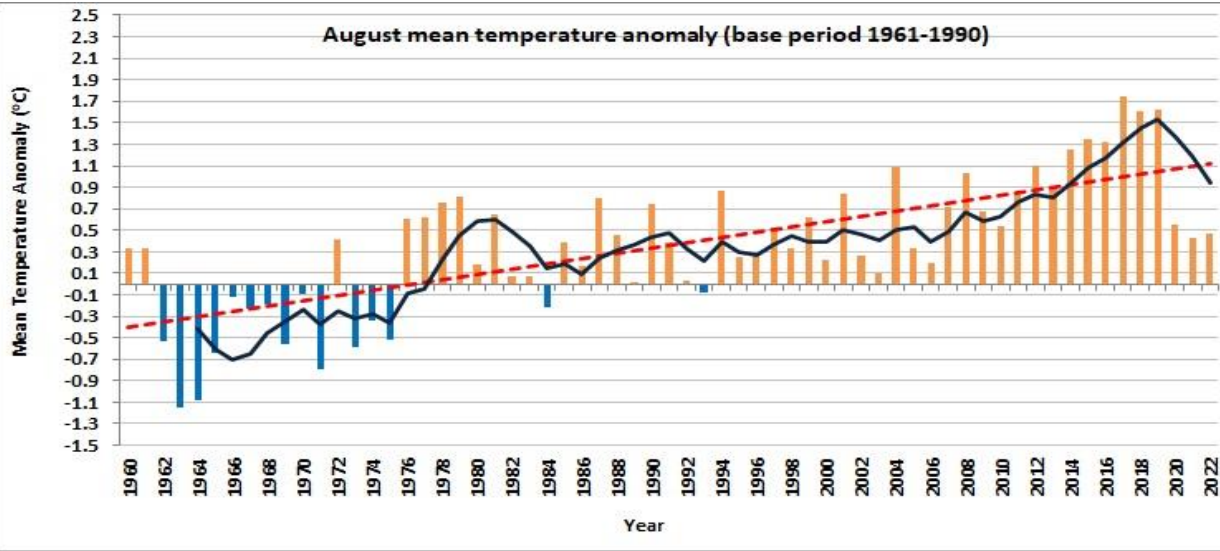


Cold nights were quite frequent in some part of the island. The highest number of cold nights of 15 was recorded at Pamplémousses.

Very few cold days were observed over the island. The highest number of cold days was 05 at Belle Rive, Pamplémousses and Champ de Mars.

### Cold days

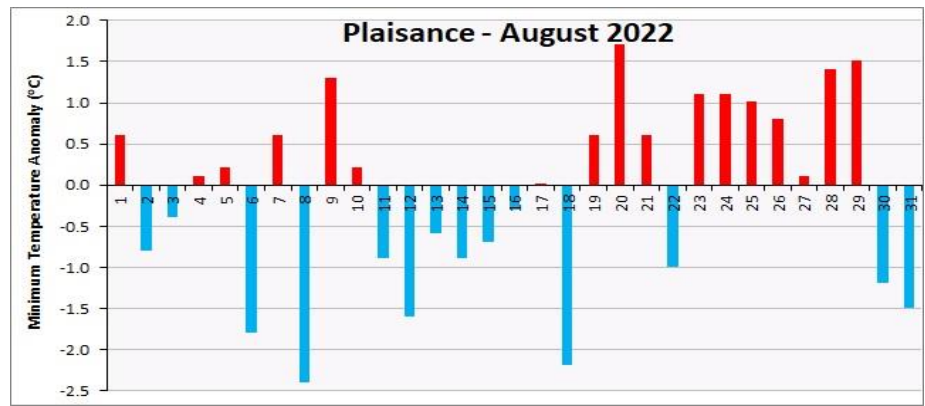
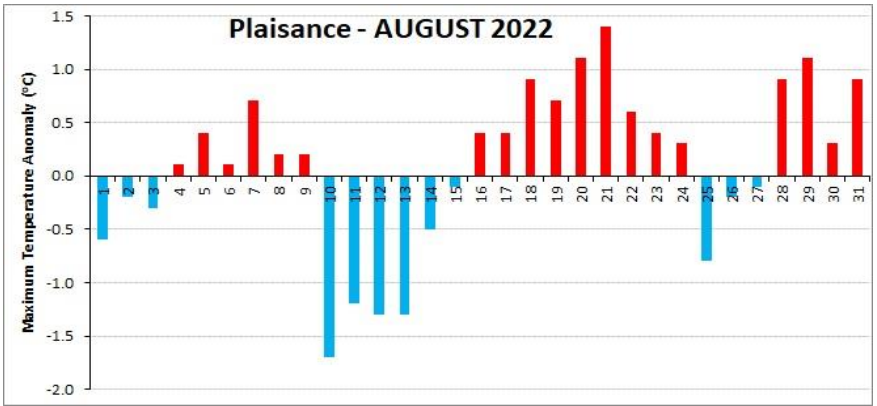
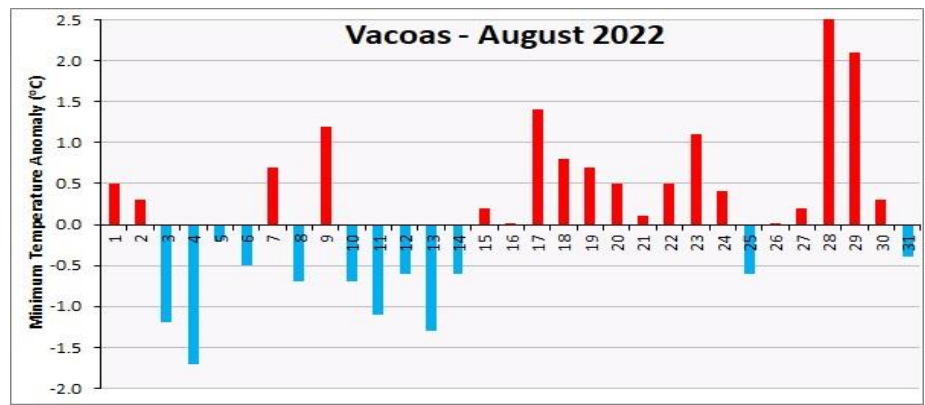
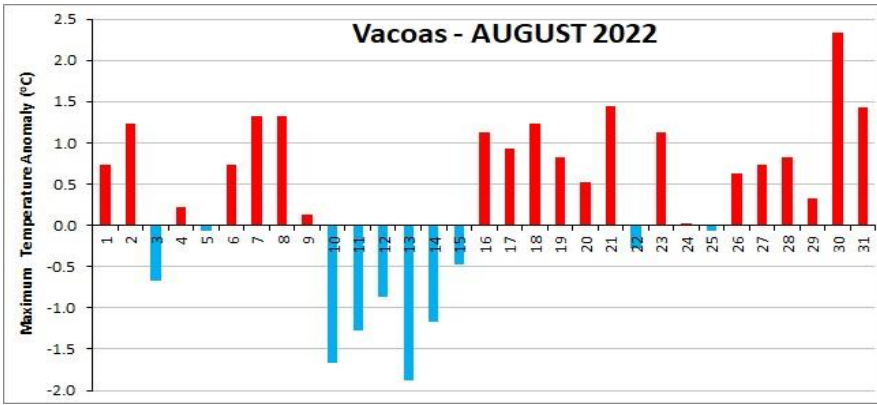




Successive warm and cold episodes were observed during the month of August.

At the end of the first fortnight, the maximum temperature dropped by 1 to 2 °C both at Vacoas and Plaisance whereas day time temperatures were 1 to 2 °C warmer than normal during the second fortnight both over the central plateau and over the coastal regions.

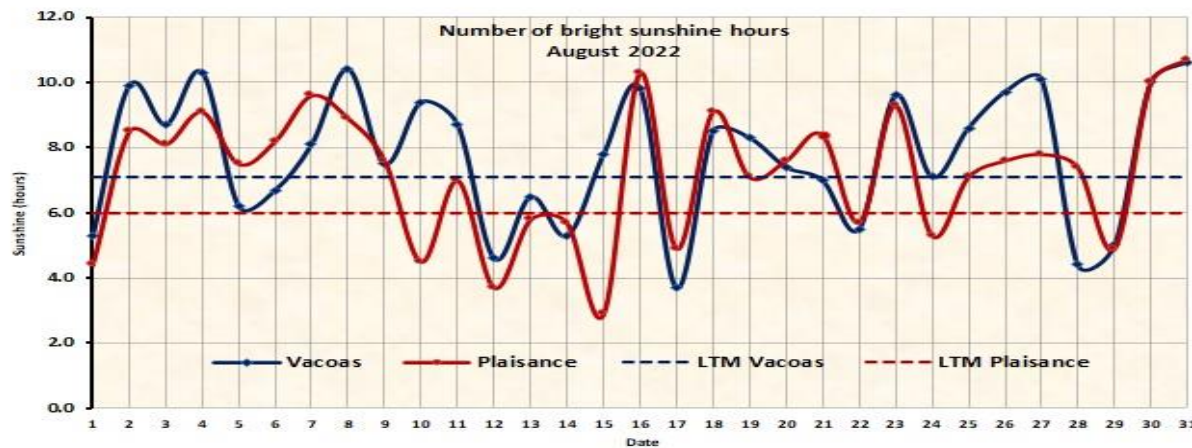
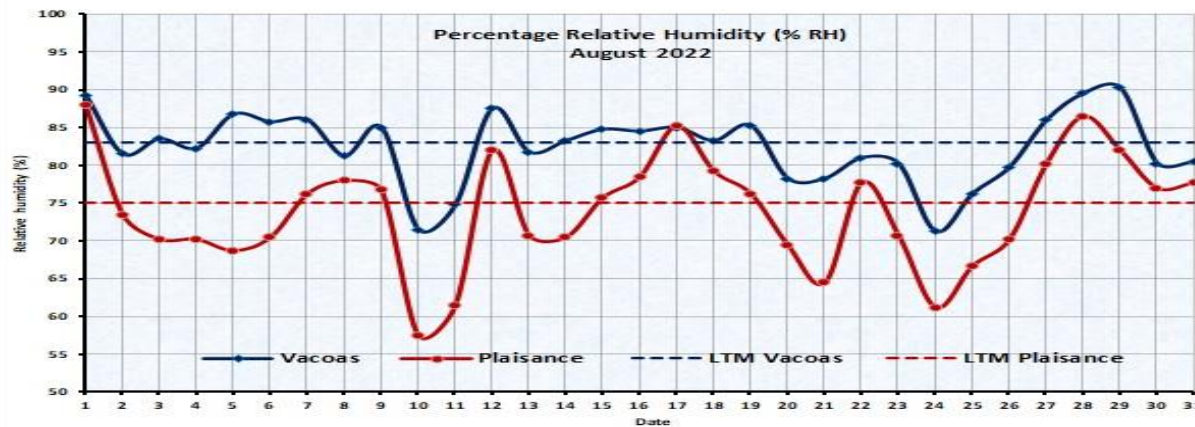
Minimum temperatures were 1 to 2 °C colder on several occasions both at Vacoas and Plaisance especially during the first fortnight.



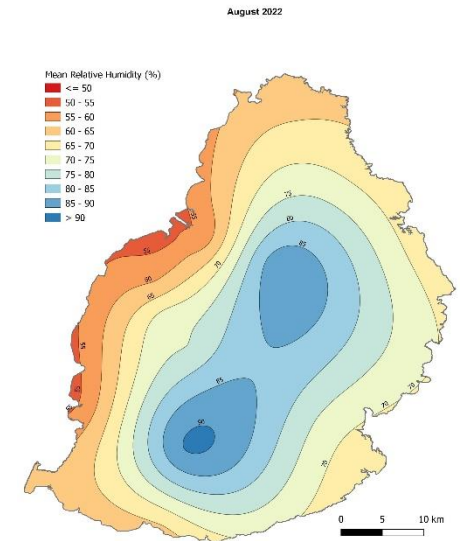
## Sunshine and Humidity

The mean relative humidity for the month was close to the normal at both at Vacoas and Plaisance. The daily humidity ranged from 71 to 90% at Vacoas and from 58 to 88 % at Plaisance. Due to the presence of cold and dry air from the south of the Mascarenes, a notable decrease in humidity was observed both at Vacoas and Plaisance on certain occasions notably on 10, 21 and 24 August.

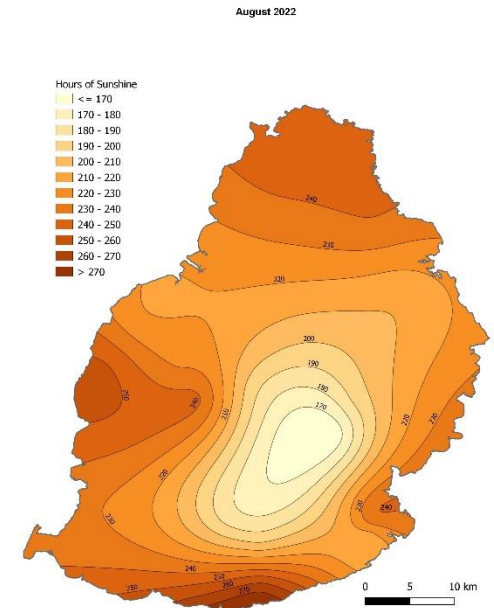
The number of daily bright sunshine hours were 108 % of the normal at Vacoas and 119 % at Plaisance (anomaly of +0.6 at Vacoas and +1.1 at Plaisance). The highest number of sunshine hours at Vacoas was 10.6 and 10.7 at Plaisance (recorded on Day 31). The lowest number of sunshine hours was 3.7 at Vacoas and 2.9 at Plaisance (recorded on Day 17 and Day 15 respectively). The total number of monthly bright sunshine hours was 240.7 at Vacoas and 224.7 at Plaisance.



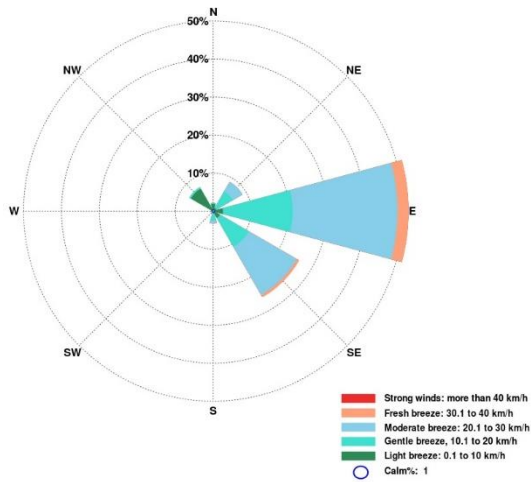
## Monthly mean humidity



## Monthly total sunshine hours



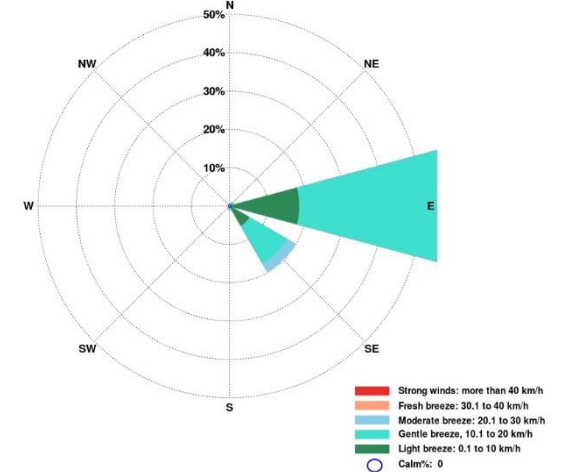
## Winds



Wind frequencies from Plaisance (left) and Vacoas (right) show winds mainly from the eastern and south eastern sectors. Light to moderate winds prevailed most of the time over the island. Nevertheless, on a few occasions, Plaisance recorded fresh winds from the eastern and south eastern sectors.

The highest gusts recorded over the island were as follows:

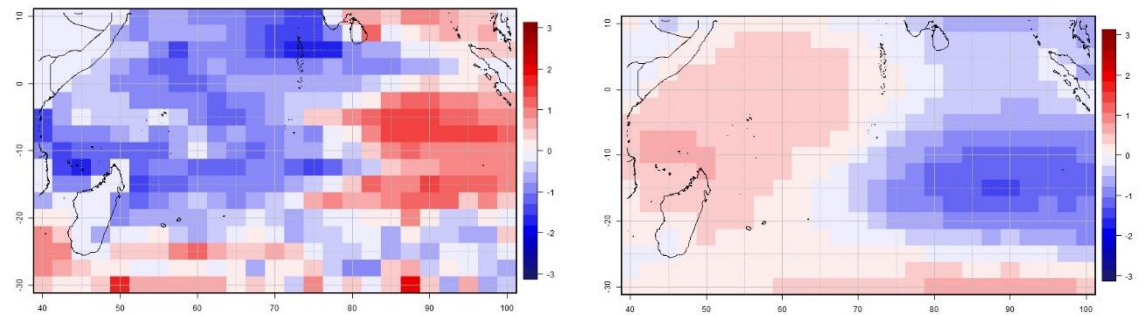
Regions	Highest gusts (km/h)	Date
D. L. Pailles	76	10
Champ de Mars	76	10
Vacoas	69	10
N. Decouverte	68	10
Le Morne	65	10
M L Rouillard	65	10
Grand Bassin	65	10, 11
Q. Victoria	65	10
Bois Mangués	63	10
Riche Terre	62	11



## FORECAST FOR OCTOBER-NOVEMBER-DECEMBER (OND)

La Nina conditions are expected to persist in the equatorial Pacific Ocean by the end of the forecast period. IOD is expected to remain in the negative phase whereas the effect of neutral SIOD will be felt to the east of Mauritius and in the region of Rodrigues.

Sea Surface Temperature (SST) is expected to be slightly cooler and pressure anomaly to be close to the normal in the Mascarene region as shown in the SST and pressure anomaly charts respectively.



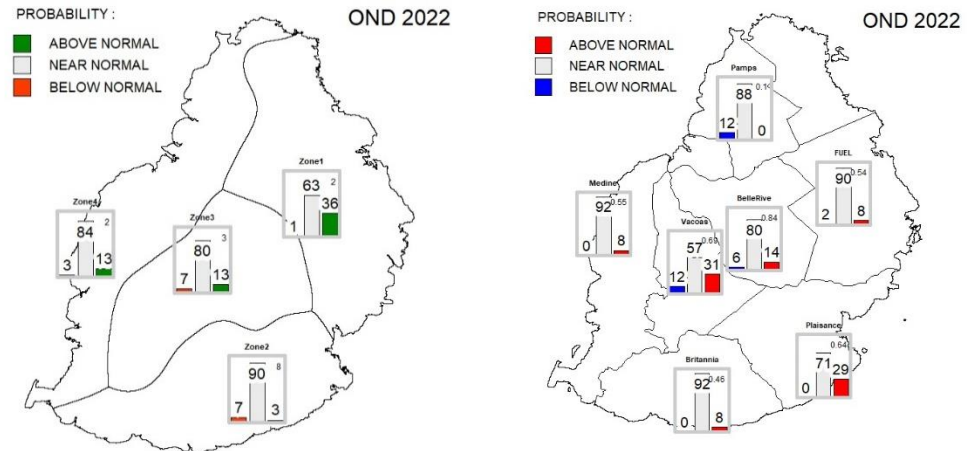
(a) Sea surface temperature and (b) pressure anomaly charts for OND 2022

### Consensus forecast for Mauritius

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

- October: dry (~ 35 mm)
- November: below normal (~ 65 mm)
- December: normal (~ 150 mm)

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



Statistical Model Forecast of (a) rainfall and (b) temperature for OND 2022

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