



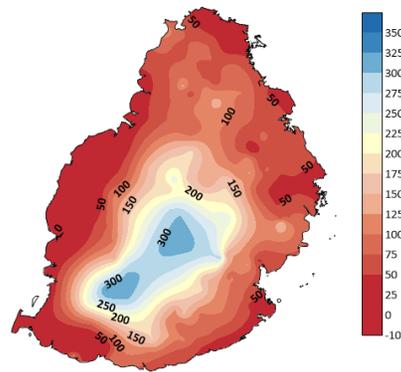
# MAURITIUS METEOROLOGICAL SERVICES

## CLIMATE JULY 2022

### Introduction

July 2022 was the coolest since the past 18 years. The amount of rainfall recorded during the month was close to the normal. La-Nina conditions persisted during the month while the Indian Ocean Dipole (IOD) and the Subtropical Indian Ocean Dipole (SIOD) were in the negative phase. The Madden Julian Oscillation (MJO) evolved in the Indian Ocean during the last week of July.

Monthly rainfall

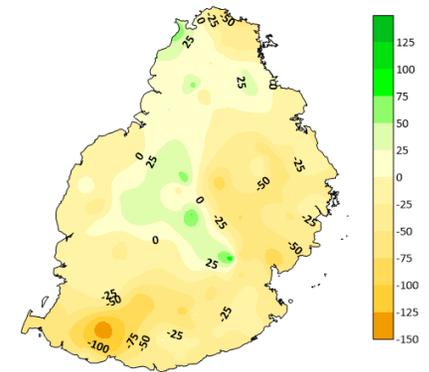


### Rainfall

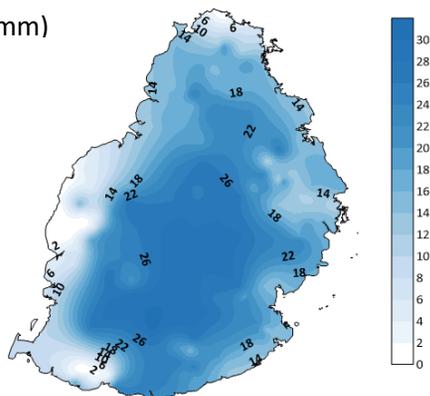
Near normal rainfall was recorded during the month of July 2022, amounting to 123 mm and representing 93 % of the long-term mean. Rainfall was equally distributed in the two fortnights. Rainfall was locally in excess by 25 to 75 mm over the central plateau and to the north and mainly deficient by about 75 to 125 in the south west and by 25 to 50 mm elsewhere.

The highest cumulative rainfall for the month was 327 mm recorded at Petrin.

Monthly rainfall Anomaly



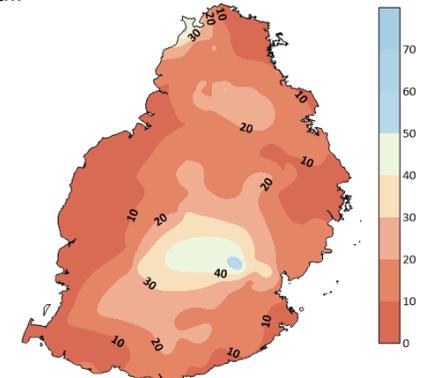
Rainfall days (> 1 mm)



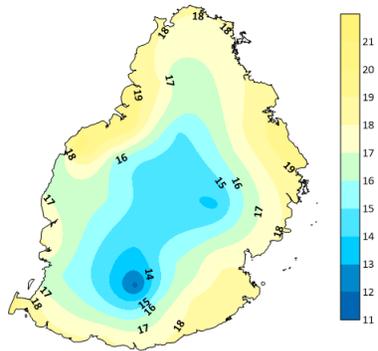
It rained almost every day across the island except to the extreme west, the south west and north of the island where few rainy days ( $\geq 1$ mm of rain) were observed. The highest number of rainy days was observed mainly over the central plateau, with 31 rainy days at Bois Cheri. However, light rain was observed on most of the days.

Highest 24-hour rainfall was 61 mm recorded at Cent Gaulettes on 15 July 2022.

Highest 24-hour Rainfall



### Minimum Temperature



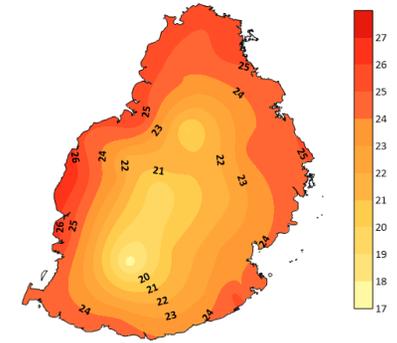
## Temperature

The mean temperature over the island was  $-0.6\text{ }^{\circ}\text{C}$  cooler than the LTM of 1991-2020. The mean minimum temperature and the mean maximum temperature were both  $-0.6\text{ }^{\circ}\text{C}$  cooler.

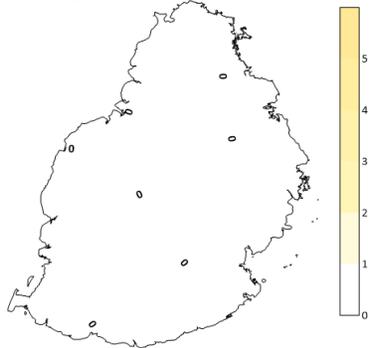
The highest maximum recorded was  $28.7\text{ }^{\circ}\text{C}$  at Riviere Noire on Day 28. The lowest maximum temperature recorded was  $15.7\text{ }^{\circ}\text{C}$  at Grand Bassin on Day 18.

The highest minimum was  $21.8\text{ }^{\circ}\text{C}$  at Port Louis on Day 12. The lowest minimum was  $9.1\text{ }^{\circ}\text{C}$  at Bois Cheri recorded on Day 20.

### Maximum Temperature



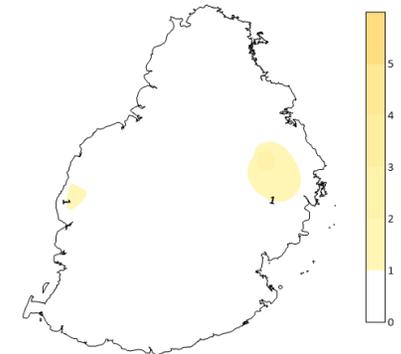
### Warm nights



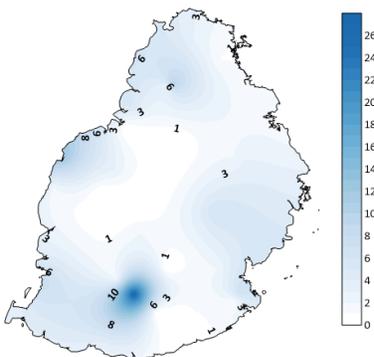
Practically no warm nights were observed over the island during the month.

Very few warm days were observed to the east and the extreme west of the island: 3 warm days in the region of Queen Victoria and 1 at Medine and Riviere Noire.

### Warm days



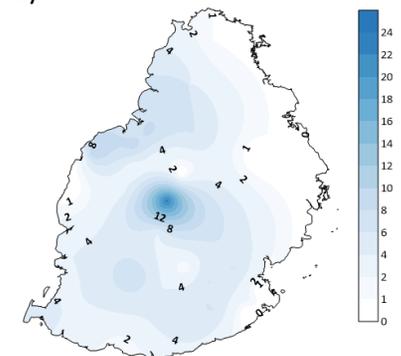
### Cold nights

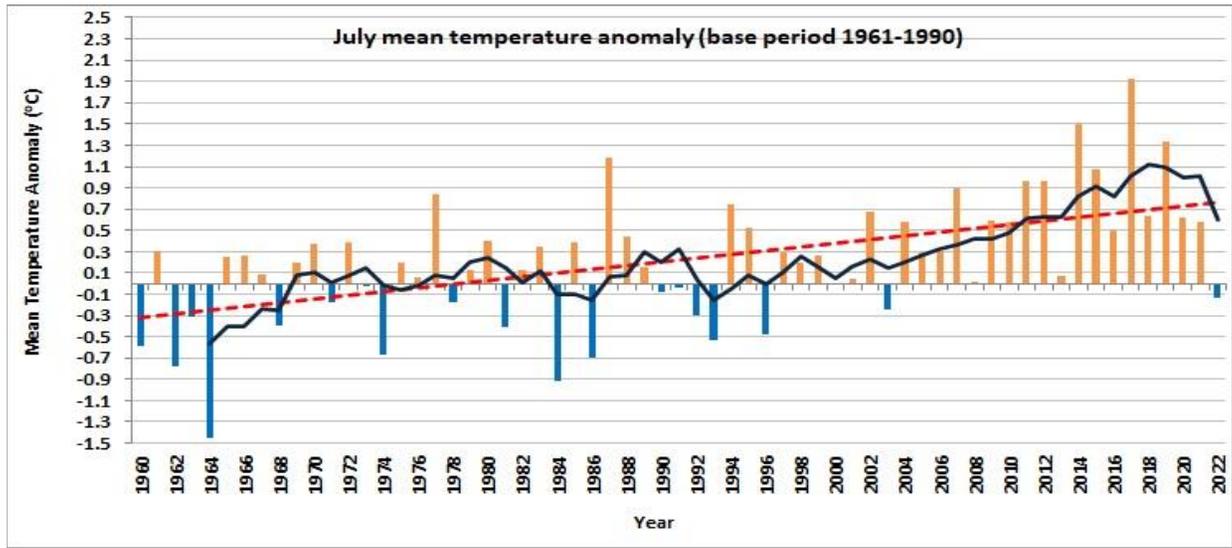


Nights and days were particularly cold during the month of July across the island. The highest number of cold nights was 27 recorded at Bois Cheri and 13 at Albion.

The highest number of cold days was 23 at Belle Rive and 11 at Pamplemousses.

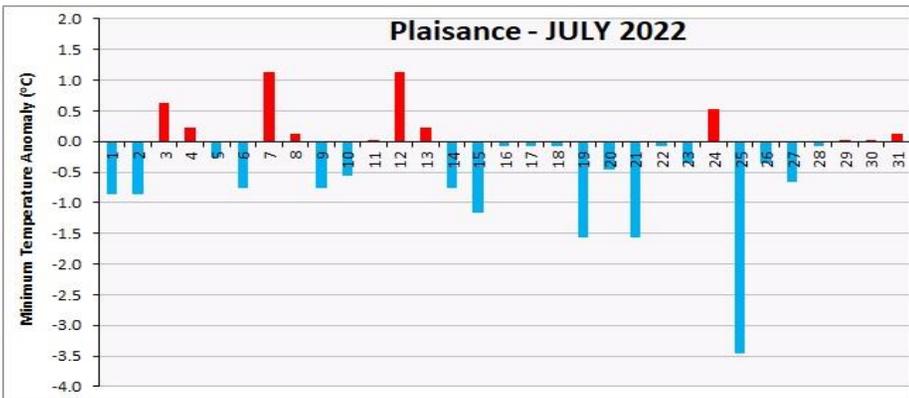
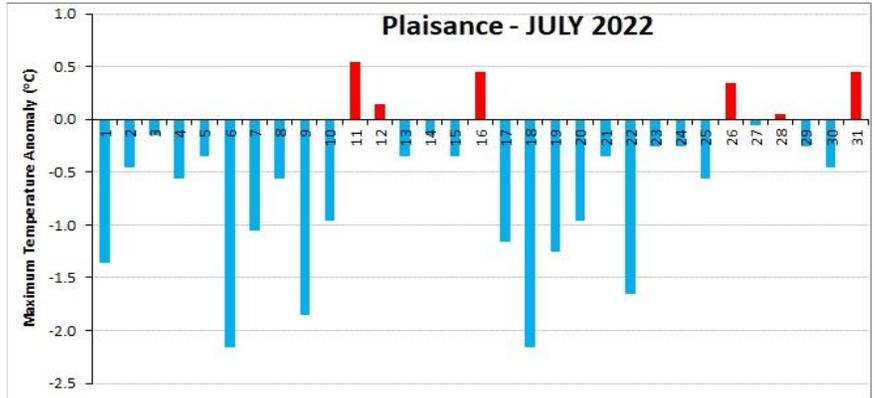
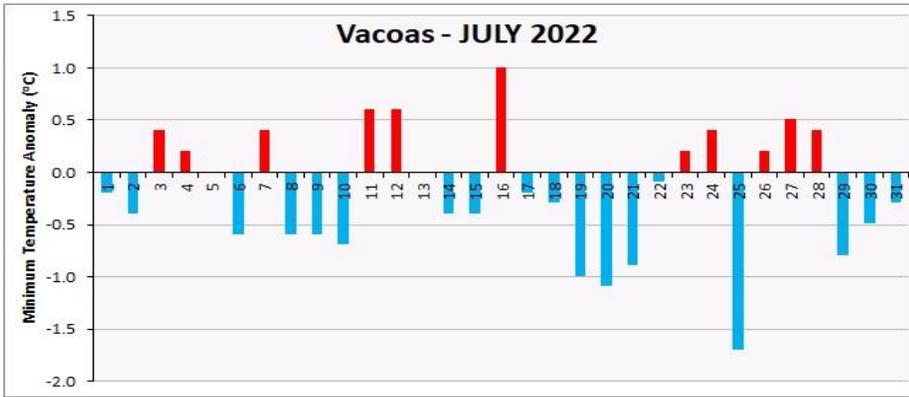
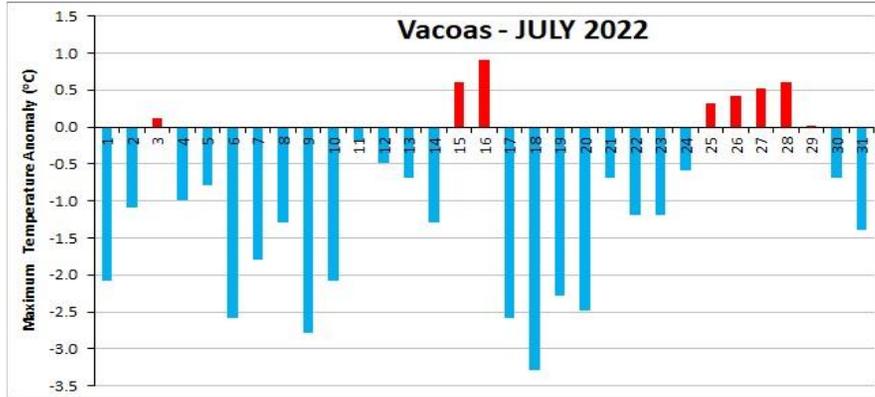
### Cold days





July 2022 was the coldest since the past 18 years. Due to cold airmass and persistent cloudiness, a significant drop in temperature was observed over the island during the month. Day time temperatures were 2 to 3 °C colder than normal on most of the days both over the central plateau and the coastal regions.

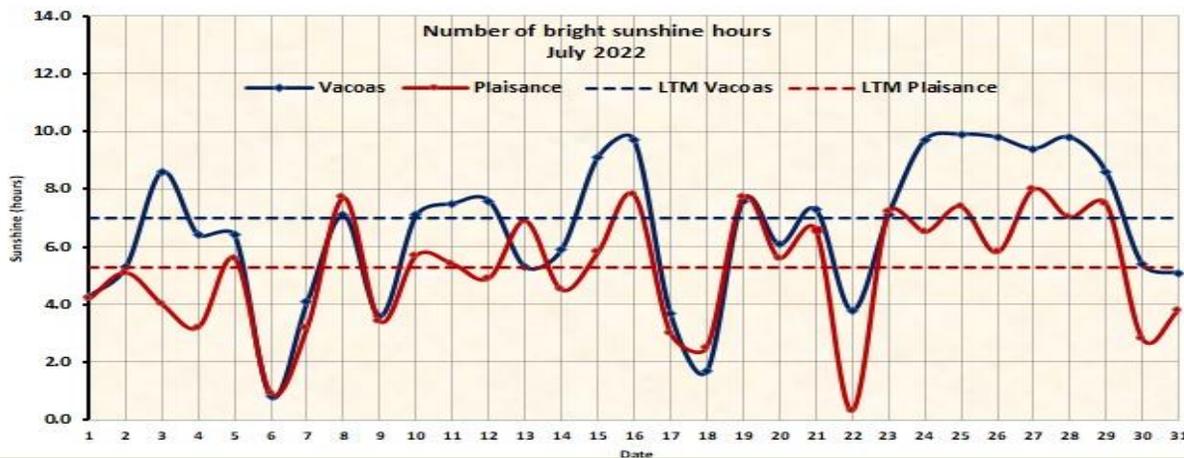
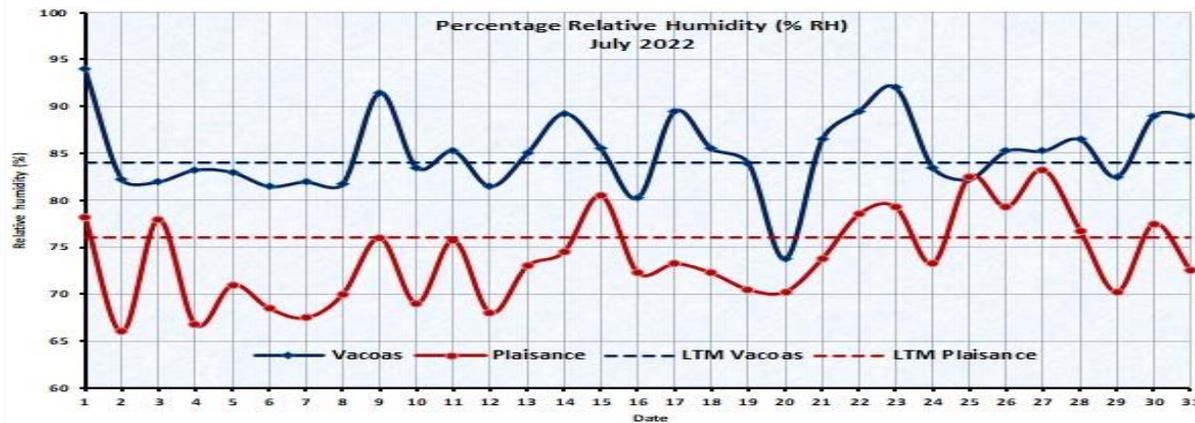
Minimum temperatures were 1 to 2 °C colder on several occasions both at Vacoas and Plaisance.



## Sunshine and Humidity

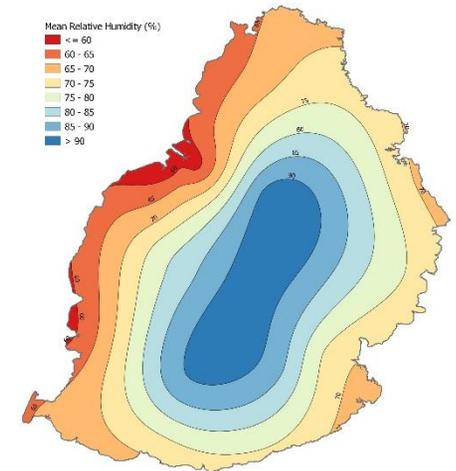
The mean relative humidity for the month was close to the normal at both at Vacoas and Plaisance. The daily humidity ranged from 74 to 94% at Vacoas and from 66 to 83 % at Plaisance. Due to the presence of cold and dry air from the south of the Mascarenes, a notable decrease in humidity was observed both at Vacoas and Plaisance on certain occasions.

The number of daily bright sunshine hours were 94 % of the normal at Vacoas and 96 % at Plaisance (anomaly of -0.4 at Vacoas and -0.1 at Plaisance). The highest number of sunshine hours at Vacoas was 9.9 and 8.0 at Plaisance (recorded on Day 25 and on Day 27 respectively). The lowest number of sunshine hours was 0.8 at Vacoas and 0.3 at Plaisance (recorded on Day 06 and Day 22 respectively). The total number of monthly bright sunshine hours at Vacoas was 203.8 and 160.0 at Plaisance.



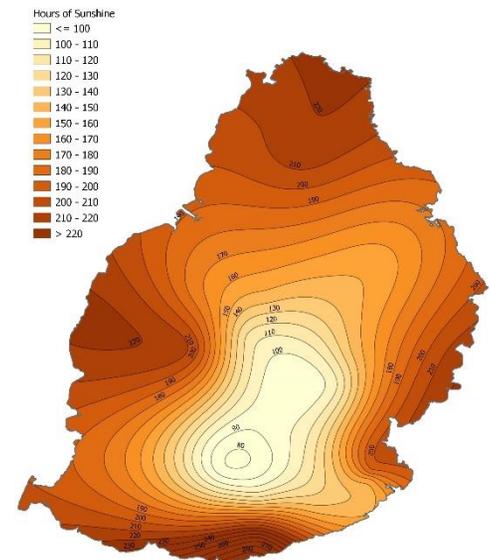
## Monthly mean humidity

July 2022

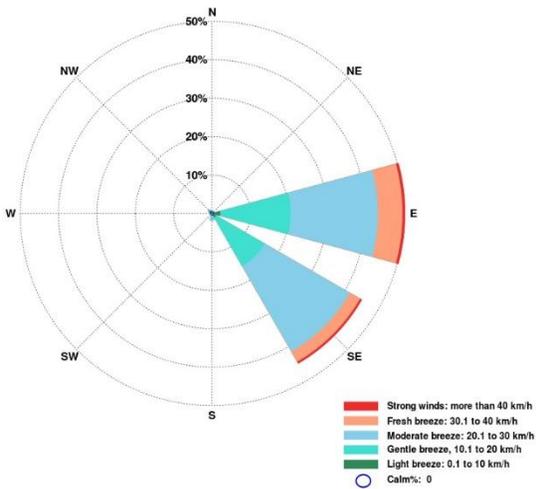


## Monthly total sunshine hours

July 2022



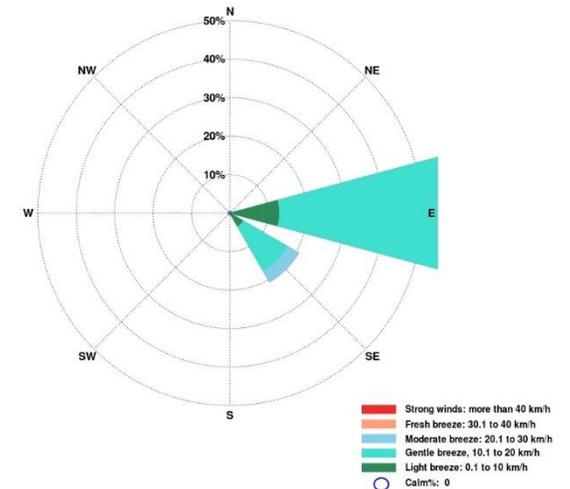
## Winds



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 and strong winds from the eastern and south eastern sectors.

The highest gusts recorded over the island were as follows:

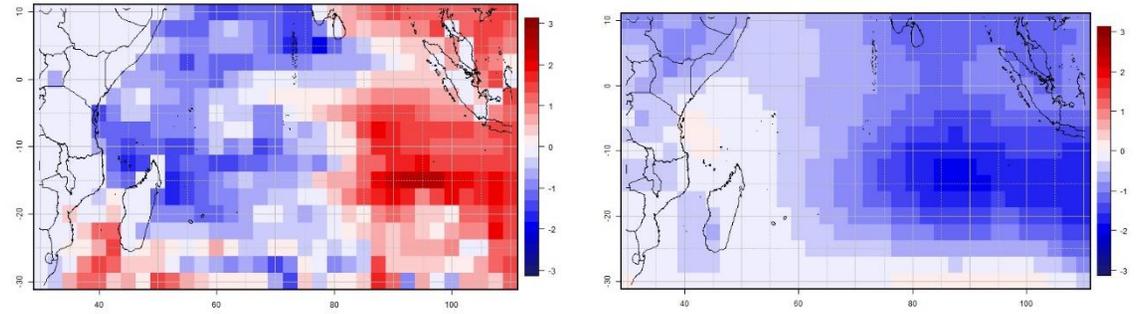
Regions	Highest gusts (km/h)	Date
Champ de Mars	86	18
Plaisance	78	19
N. Decouverte	72	19
Grand Bassin	72	18
D. L. Pailles	72	18
Bois Mangues	72	19
Vacoas	69	19
St. Felix	68	18
Bell Village	67	17
Riche Terre	67	20



## FORECAST FOR SEPTEMBER-OCTOBER-NOVEMBER (SON)

La Nina conditions are expected to persist in the equatorial Pacific Ocean by the end of the forecast period. IOD and SIOD are expected to be in the negative phase

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.



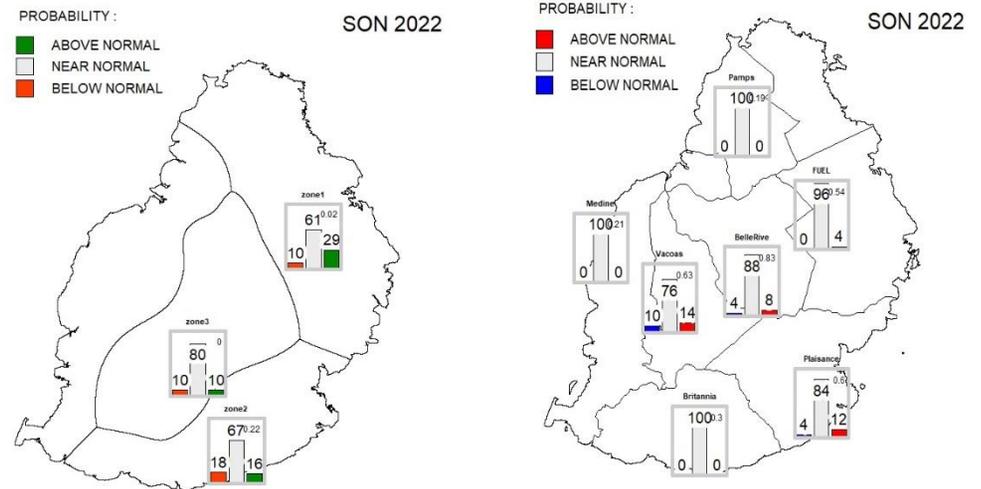
(a) Sea surface temperature and (b) pressure anomaly charts for SON 2022

### Consensus forecast for Mauritius

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

- September: below normal (~ 60 mm)
- October: below normal (~ 50 mm)
- November: normal (~ 80 mm)

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



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

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