



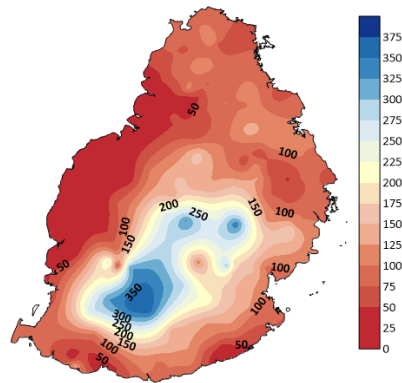
# MAURITIUS METEOROLOGICAL SERVICES

## CLIMATE MAY 2022

### Introduction

May 2022 was slightly warmer and the amount of rainfall recorded during the month was close to the normal. One storm namely, Karim formed in the South West Indian Ocean basin during the month but did not influence weather over Mauritius. Weak La-Nina conditions persisted during the month while the Indian Ocean Dipole (IOD), the Subtropical Indian Ocean Dipole (SIOD) were in the neutral phases. The Madden Julian Oscillation (MJO) evolved mainly in the Pacific Ocean during the month.

Monthly rainfall

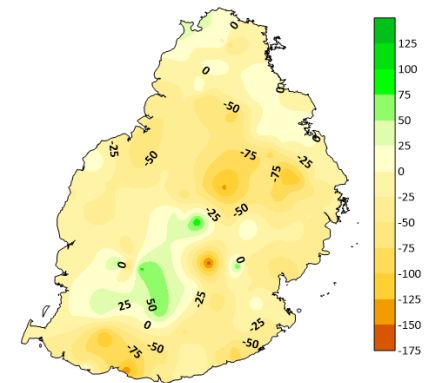


### Rainfall

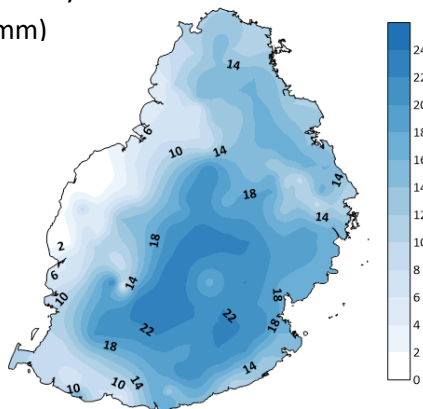
Normal rainfall was recorded during the month of May 2022, amounting to 136 mm, representing 92 % of the long-term mean. Fifty-nine percent (59%) of the total rainfall was recorded in the first fortnight and 41% in the second half. Rainfall was locally in excess by 25-75 mm over the central plateau and mainly deficient by 25-100 mm elsewhere.

The highest cumulative rainfall for the month was 361.1 mm recorded at Bois Cheri.

Monthly rainfall Anomaly



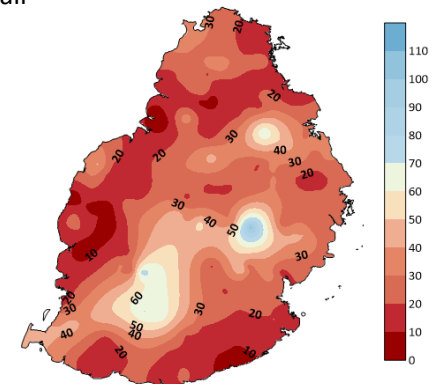
Rainfall days (> 1 mm)



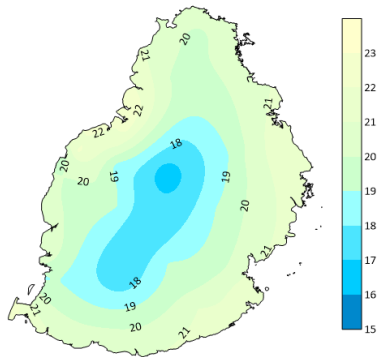
The highest number of rainy days ( $\geq 1$ mm of rain) was observed mainly over the windward part of the central plateau; 24 rainy days at Piton Du Milieu and Mon Bois and 23 rainy days at Arnaud.

Highest 24-hour rainfall was 104.2 mm recorded at Sans Souci on 12 May 2022.

Highest 24-hour Rainfall



Minimum Temperature



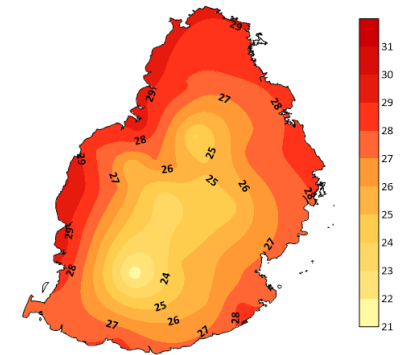
## Temperature

The mean temperature over the island was 0.13 °C warmer than the LTM of 1991-2020. The mean minimum temperature was -0.1 °C cooler and the mean maximum temperature was 0.3 °C warmer.

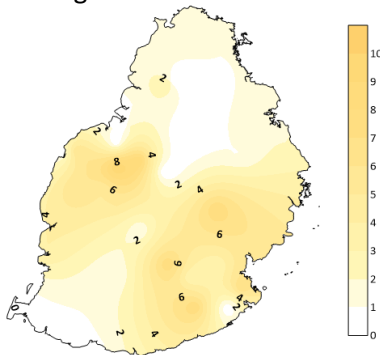
The highest maximum recorded was 33.7 °C at Riviere Noire on Day 02. The lowest maximum temperature recorded was 19.0 °C at Grand Bassin on Day 31.

The highest minimum was 24.9 °C at Port Louis on Day 05. The lowest minimum was 13.3 °C at Mon Bois recorded on Day 27.

Maximum Temperature



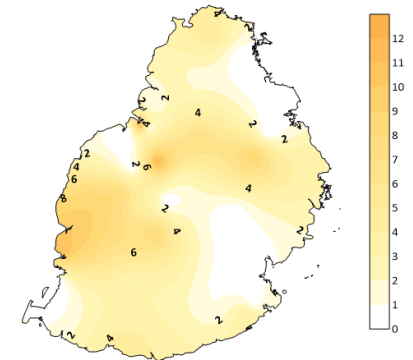
Warm nights



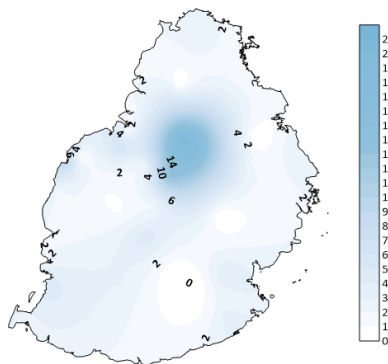
Few warm nights were observed over the island during the month. The highest number of warm nights was 10 at Reduit and 9 at Mon Desert Alma. In other regions, the number of warm nights was between 0 and 8.

Highest number of warm days were observed to the west: 12 warm days in the region of Port Louis. Elsewhere, the number of warm days varied between 0 and 9.

Warm days



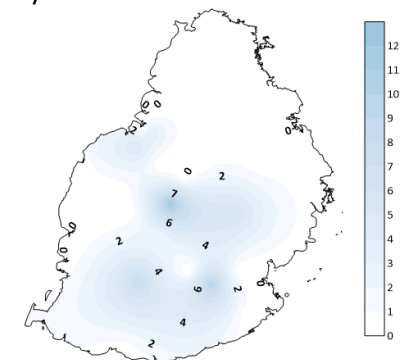
Cold nights

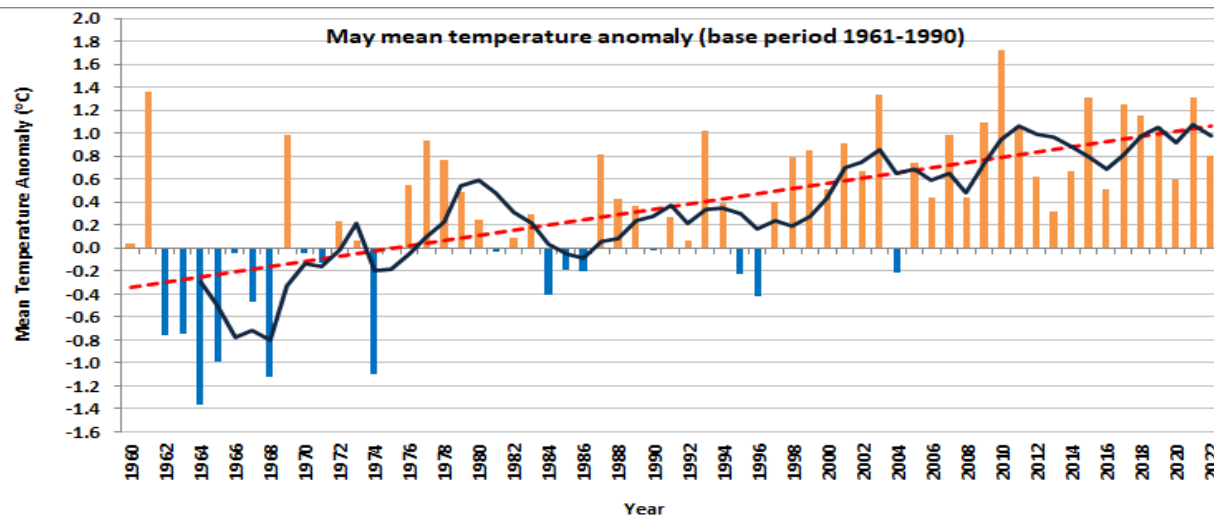


Nights were particularly cold during the month in the region of Nouvelle Decouverte with 21 cold nights. In other regions it varied between 0 to 13.

Few cold days were observed mainly over the central plateau and to the south of the island. The highest number of cold days was 12 at Belle Rive and 10 at Rose Belle. Elsewhere, the number of cold days varied between 0 to 8.

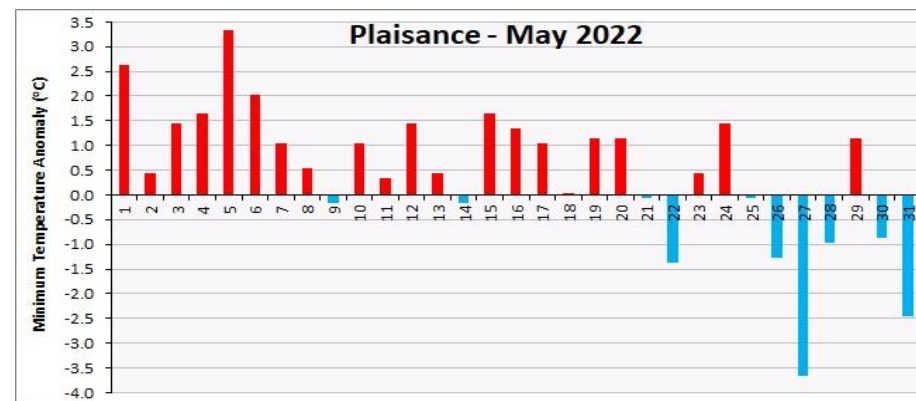
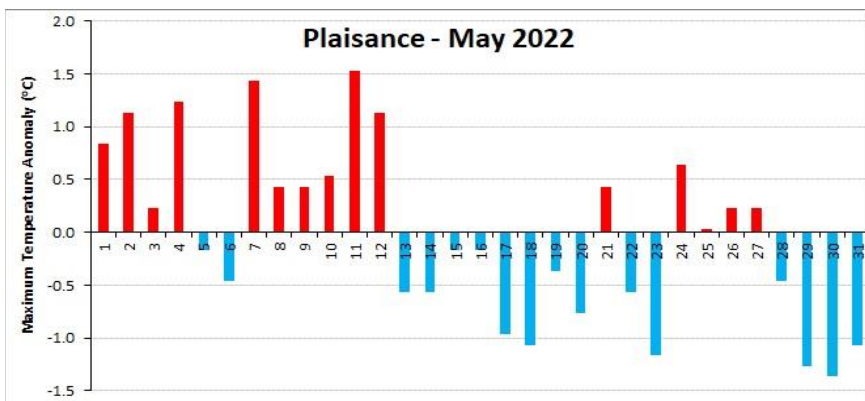
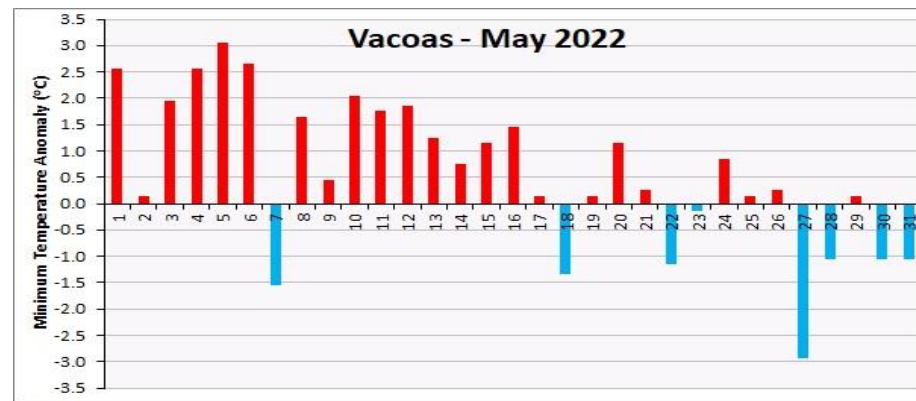
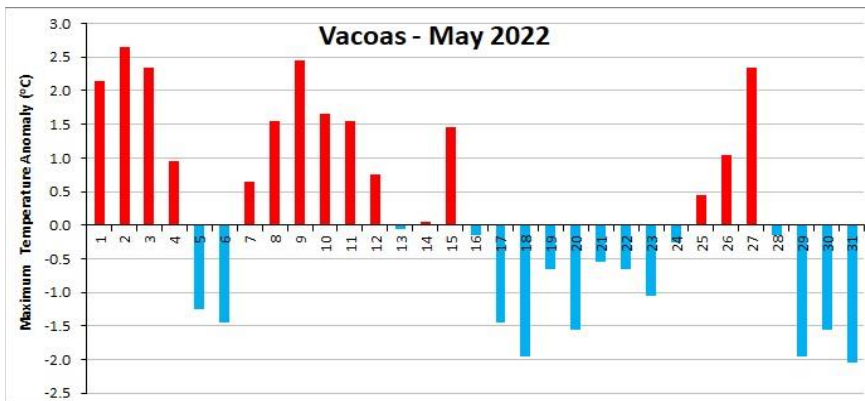
Cold days





During the first fortnight, daytime temperature anomalies were warmer by 1-2 °C both at Vacoas and Plaisance. In the second half, maximum temperatures were cooler at both stations by 1-2 °C.

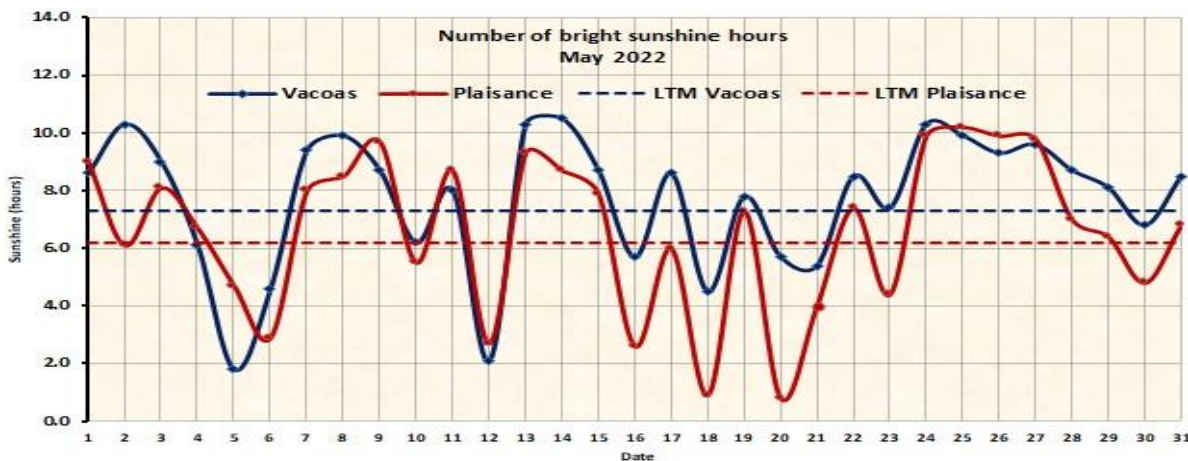
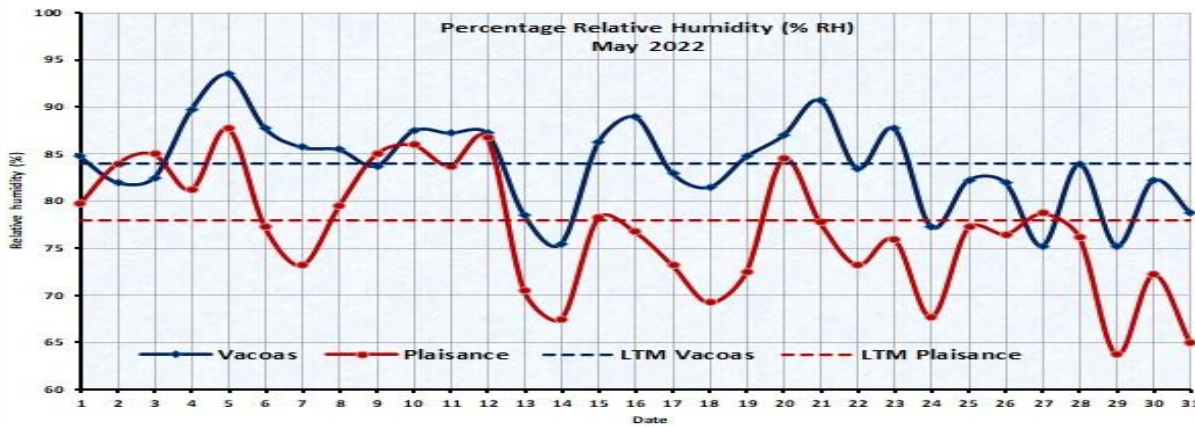
Minimum temperatures anomalies were most of time warmer by 1-3 °C at both Vacoas and Plaisance. However, during the last week, because of advection of relatively colder air, minimum temperatures dropped by 1-2 °C at both stations.



## Sunshine and Humidity

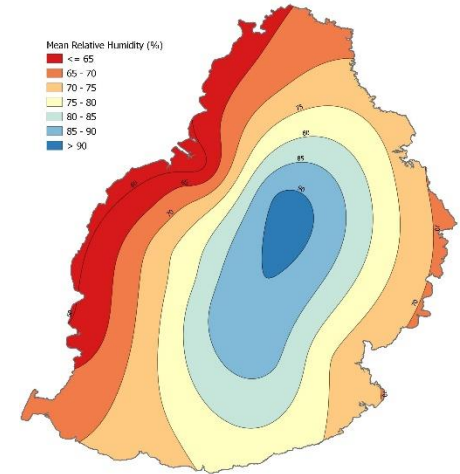
The mean relative humidity was close to the normal at both at Vacoas and Plaisance. The daily humidity ranged from 75 to 94% at Vacoas and from 64 to 88 % at Plaisance. During the third week there was a notable decrease in humidity at Plaisance due to invasion of relatively colder air from the south of the Mascarenes.

The number of daily bright sunshine hours were 105 percent of the normal at Vacoas and 106 percent at Plaisance (anomaly of +0.4 at both Vacoas and Plaisance). The highest number of sunshine hours at Vacoas was 10.5 and at Plaisance 10.2 hours (on Day 14 and on Day 25 respectively). The lowest number of sunshine hours was 1.8 at Vacoas and 0.8 at Plaisance (Day 05 and Day 20 respectively). The total number of monthly bright sunshine hours at Vacoas was 239.0 and 204.7 at Plaisance.



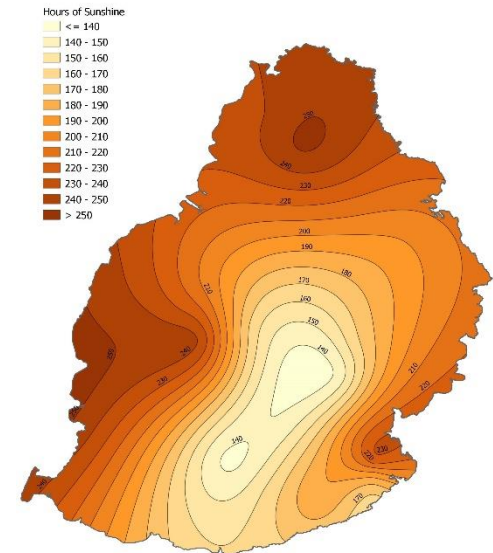
## Monthly mean humidity

May 2022

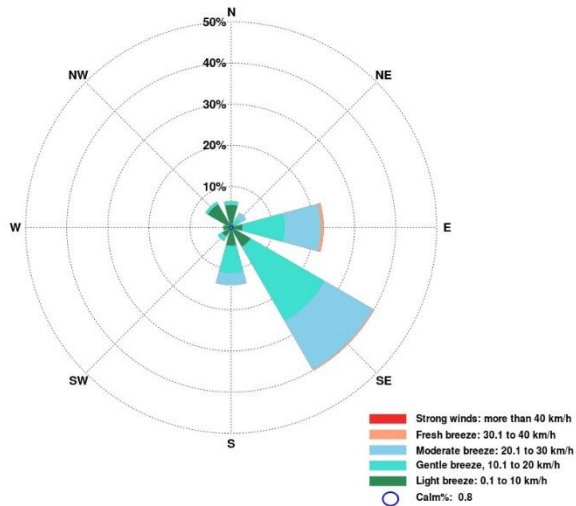


## Monthly total sunshine hours

May 2022



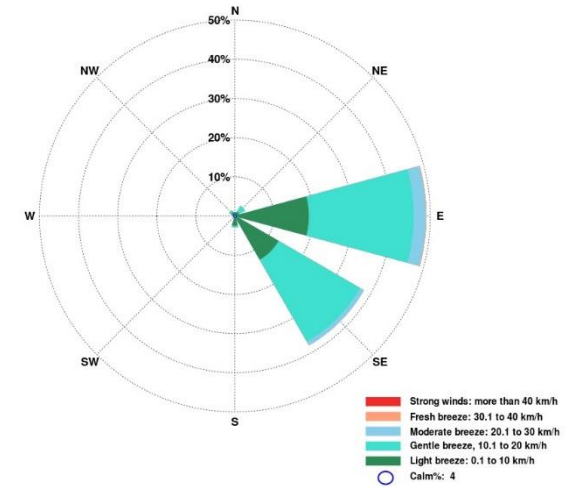
## Winds



Wind frequencies from Plaisance (left) show winds mainly from the south eastern sector while and at Vacoas (right), winds were mainly from both the eastern and south eastern sectors. On other few instances, the wind blew from the east and the south at Plaisance. Light to moderate winds prevailed most of the time over the island. Nevertheless, on a few occasions, Plaisance recorded fresh winds from the eastern sector.

The highest gusts recorded over the island were as follows:

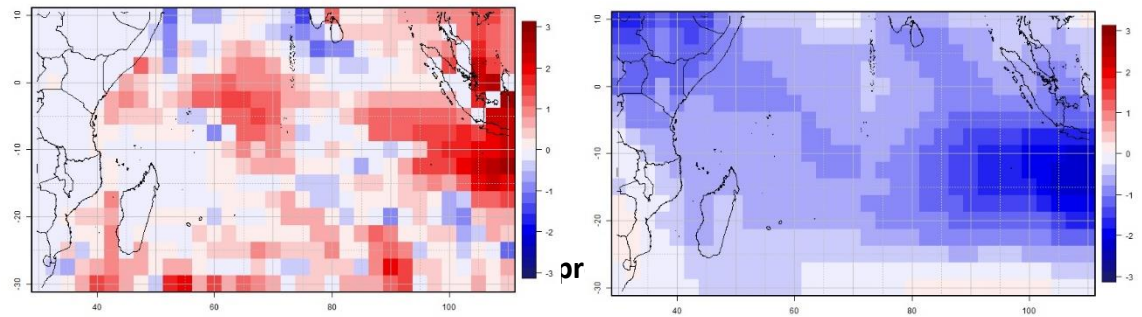
Regions	Highest gusts (km/h)	Date
Champ de Mars	83	5, 6
D. L. Pailles	79	6
Le Morne	68	6
Grand Bassin	68	6
Beaux Songes	65	6
Riche Terre	64	5
Vacoas	64	5, 29
Plaisance	64	5
Champ de Mars	83	5, 6



## FORECAST FOR JULY-AUGUST-SEPTEMBER

Weak La Nina conditions are expected to persist in the equatorial Pacific Ocean by the end of the forecast period. IOD will be in the negative phase while SIOD is expected to remain neutral.

SST and pressure anomaly will be close to the normal in the Mascarene region as shown in the SST and pressure anomaly charts respectively.

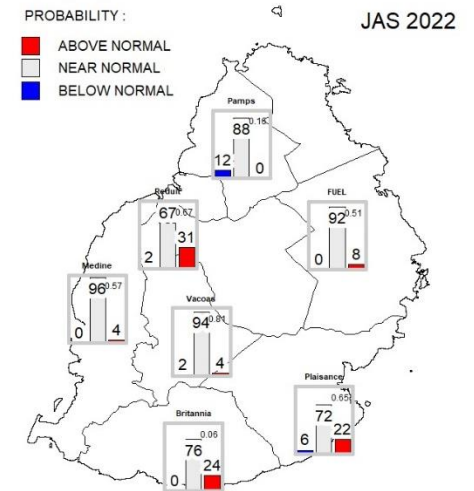
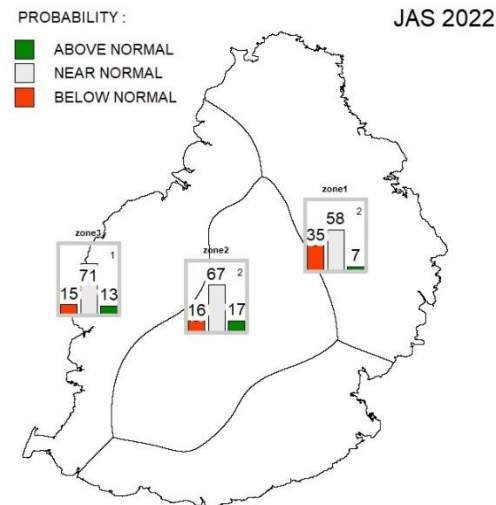


### Consensus forecast for Mauritius

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

- July: normal (~ 125 mm)
- August: normal (~ 110 mm)
- September: normal (~ 82 mm)

Mean temperature is forecasted to be close to the normal.



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Updated on: 08 July 2022

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