



# MAURITIUS METEOROLOGICAL SERVICES

## CLIMATE AUGUST 2021



### Introduction

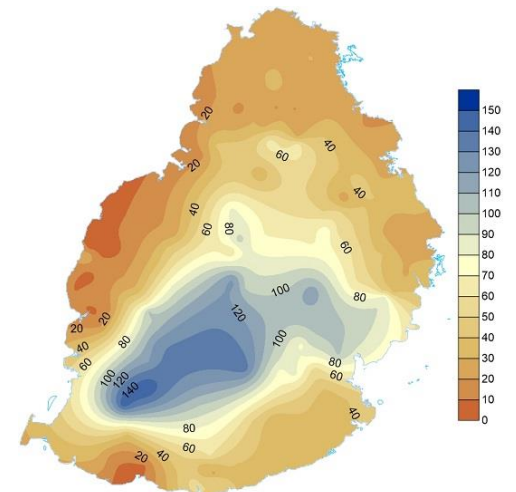
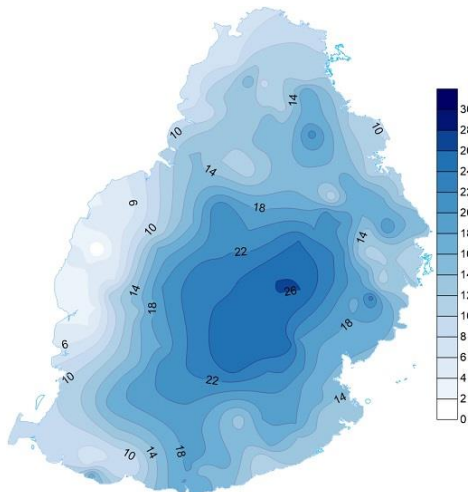
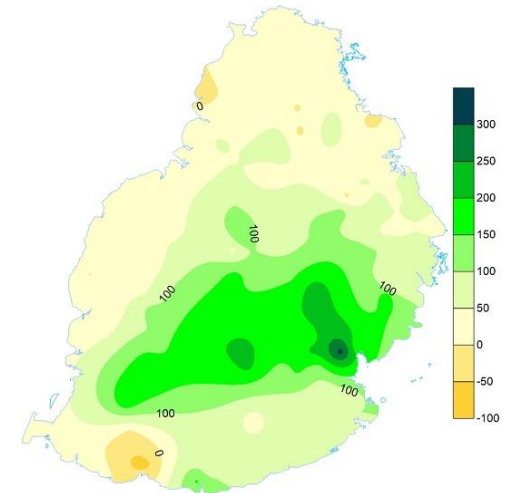
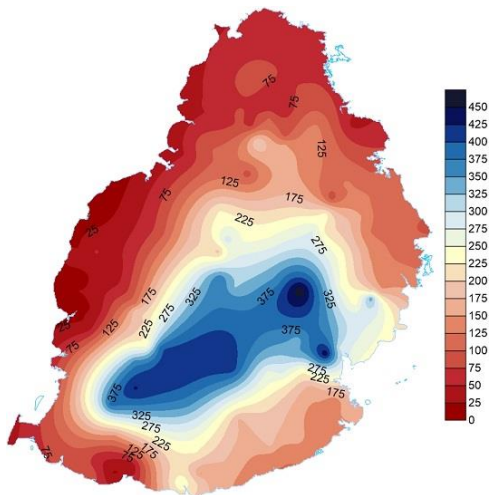
August 2021 is the 6<sup>th</sup> wettest on record; the wettest August since the last 25 years. El-Nino La-Nina Southern Oscillation (ENSO) remained in the neutral phase and the Indian Ocean Dipole (IOD) in the equatorial Indian Ocean was negative. The Subtropical Indian Ocean Dipole remained neutral and the Madden Julian Oscillation (MJO) was active over the western Indian Ocean during the second and the last week.

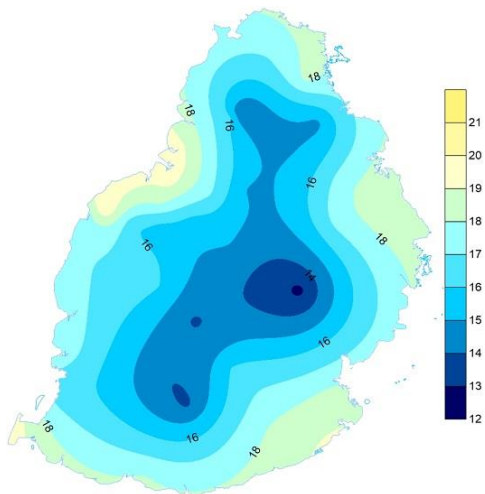
### Rainfall

An average of 192mm of rainfall was recorded over the island equivalent to 178% of the long term mean for the month; 30% of the total rainfall was recorded in the first fortnight and 70% in the second. Over 400 mm of rainfall was recorded in the region of Petrin, Sans Souci and Le Vallon (top left). Some stations to the south-east recorded over 250 mm of excessive rainfall (top right). Two heavy rain episodes were observed notably on the 10 and from 27 to 28.

Over several regions of the Central Plateau and locally to the northeast over 20 rain days ( $\geq 1$ mm of rain) were observed, the highest being 26 at Sans Souci (bottom left).

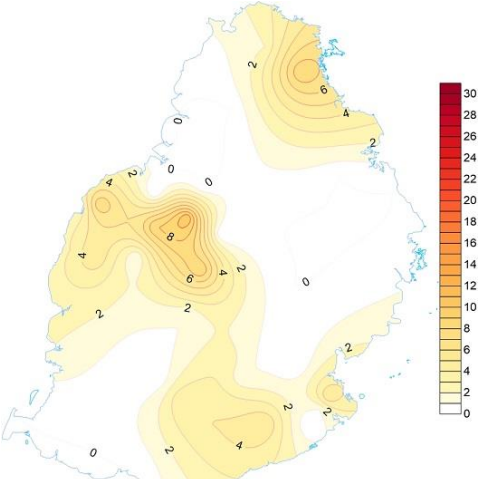
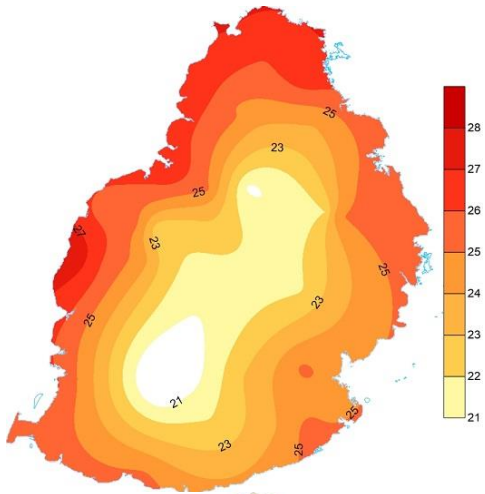
The 24-hour rainfall (bottom right) exceeded 100mm at several localities over the Central Plateau, the highest reaching 149 mm at Petrin.



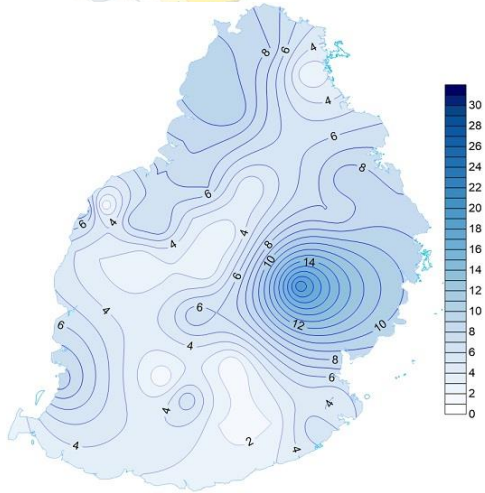
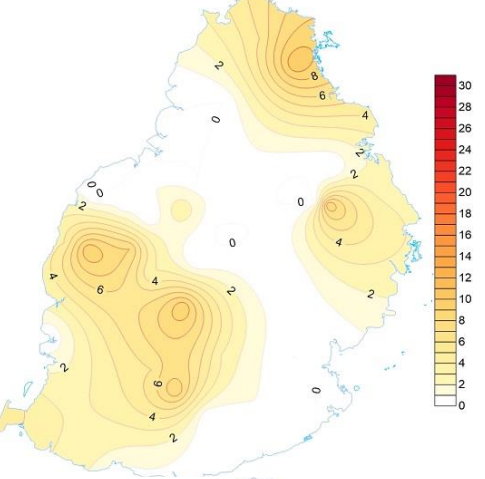


**Temperature**

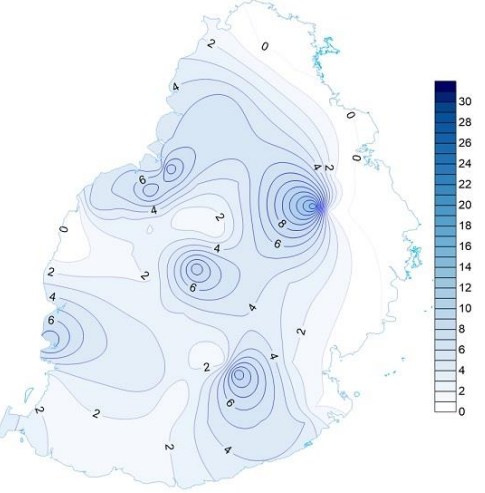
Mean maximum temperature was close to the normal with a high 30.2 °C at Case Noyale on Day 13 and a low of 16.1 °C at Grand Bassin on Day 04. The mean minimum temperature was slightly below, with a high of 23.2 °C at Gros Cailloux on Day 29 and a low of 8.0 °C in the region of Pamplemousses on Day 03. The eastern part of the Central Plateau recorded the lowest mean minimum (left) while the mean maximum was warmest to the west (right).

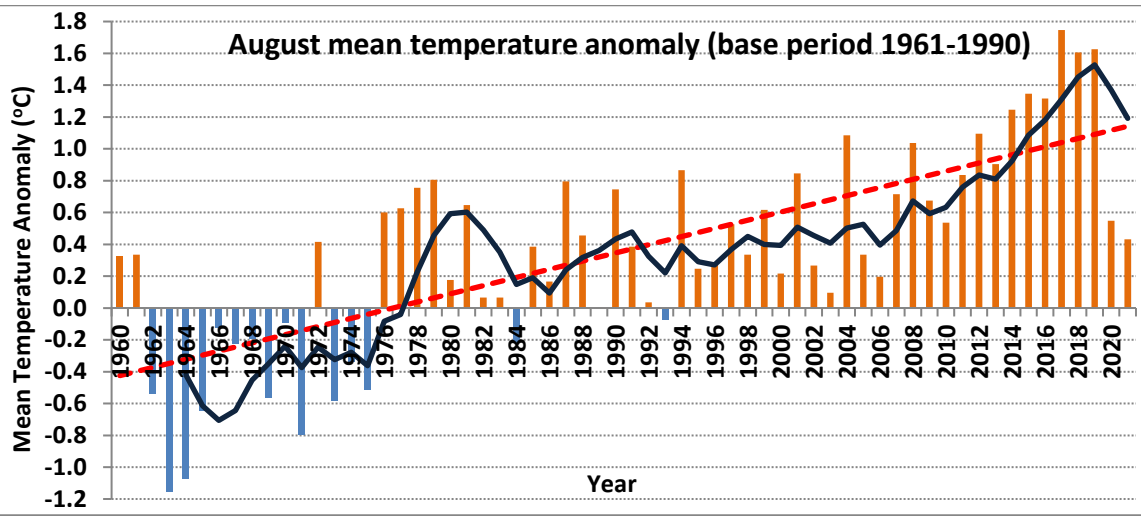


Warm nights were particularly observed to the west, south northeast and over part of the Central Plateau; 10 at Mon Desert Alma followed by 8 at Belle Rive and Digue Seche (left). The region experiencing warm days (right) coincided with those of warm nights together with certain regions to the east (right). Digue Seche observed 10 warm days followed by 9 at Beau Songes, 8 at Bois Cherie and Queen Victoria.



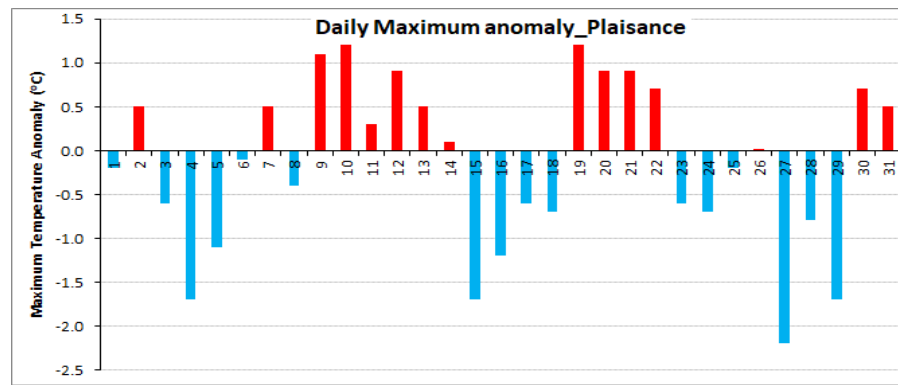
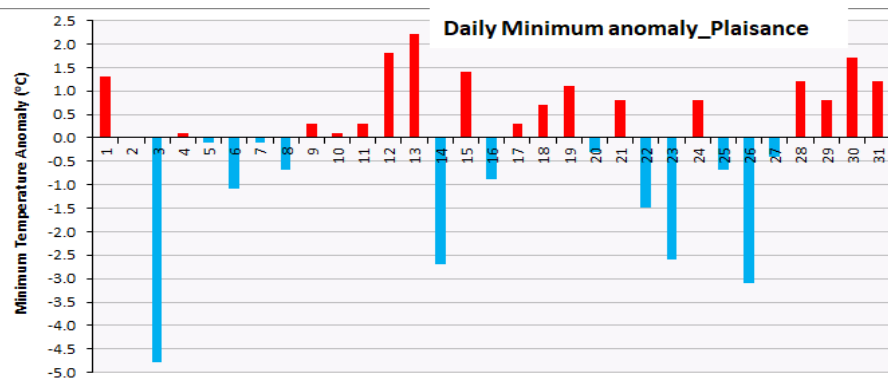
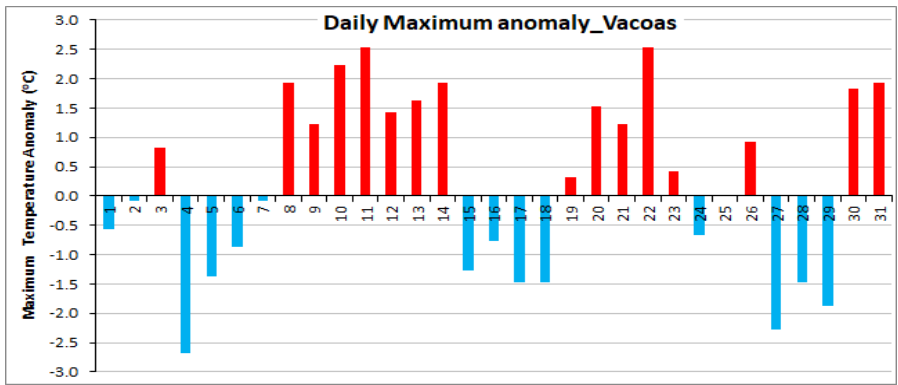
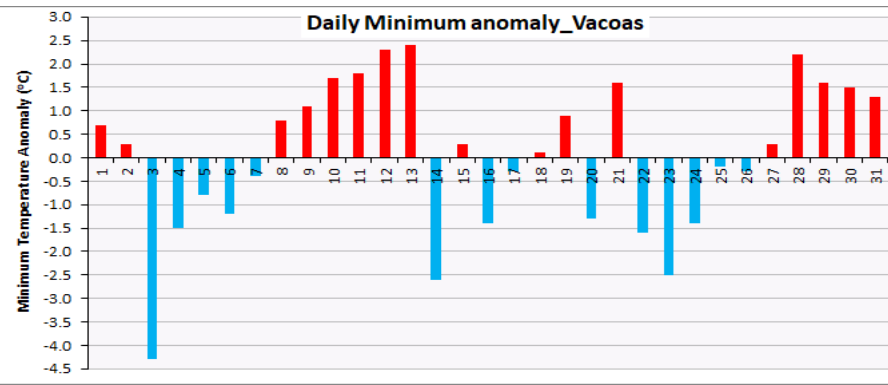
Cold nights were mostly observed to the east and north with 19 such nights at Sans Souci and 10 at Pamplemousses and 9 at Case Noyale (left). The highest number of cold days was observed to the east amounting to 14 at Fuel. Other regions having recorded 8 to 10 cold days include Port Louis, Riviere Noire, Belle Rive and Rose Belle (right).





Compared to LTM 1991-2020, the mean temperature over the island was close to the normal (-0.2 °C). The mean minimum and maximum temperatures were also close to the normal (-0.4 °C and -0.1 °C) respectively.

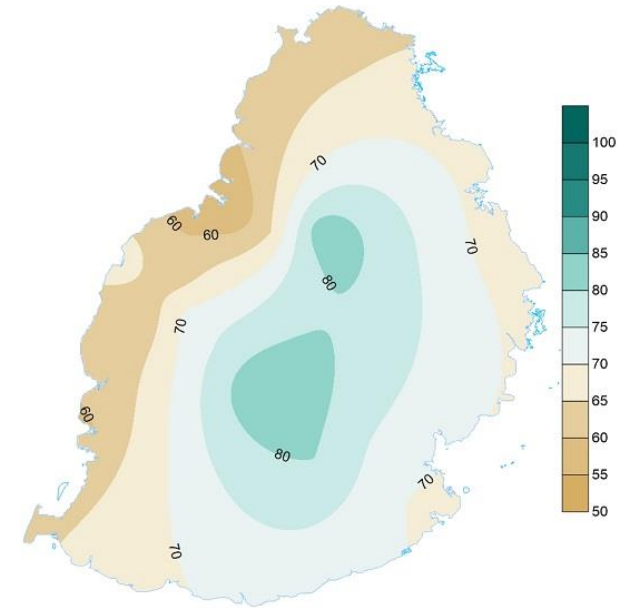
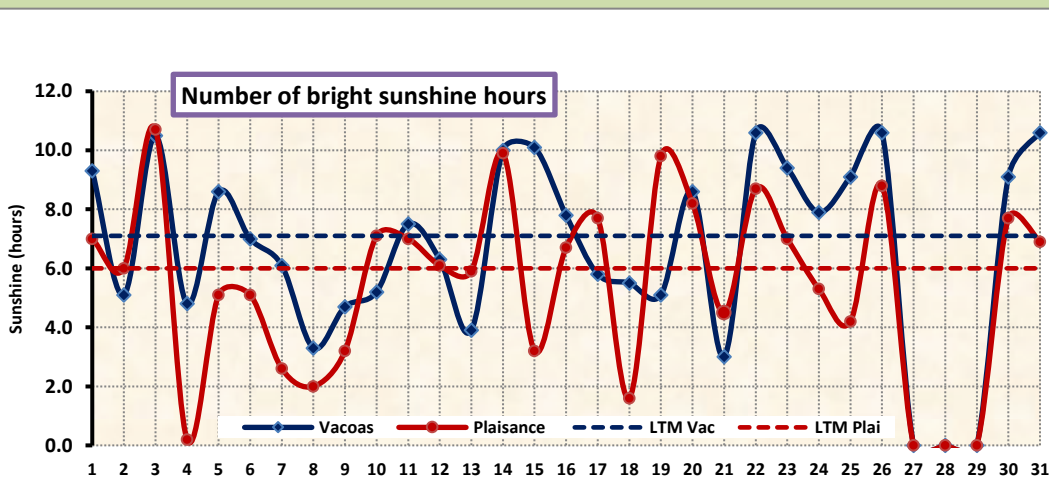
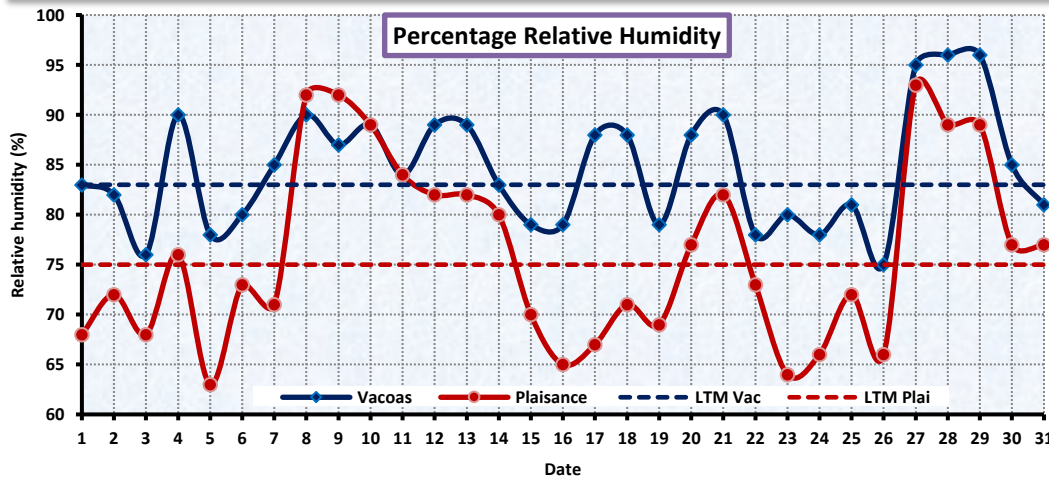
The month started with a cold week with minimum temperature and maximum temperatures dropping by 4-7 °C and 2-4 °C respectively. Day 04 was the coolest day. Alternate cold and warm weeks prevailed. During the warm days both the maximum and minimum temperatures were 2-4 °C above the normal.



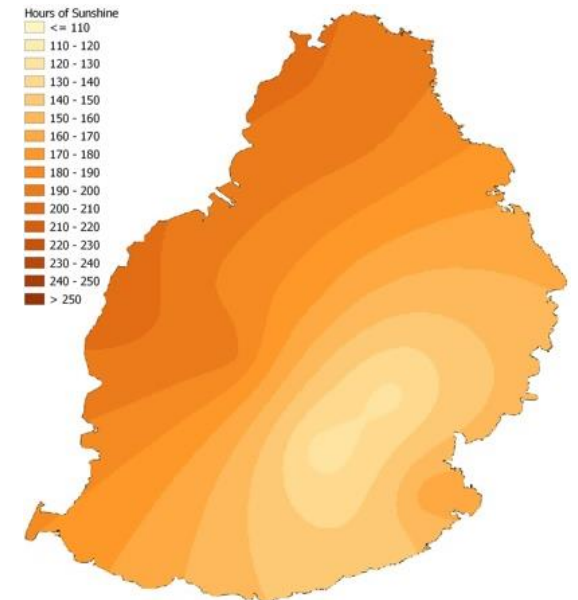
## Sunshine and Humidity

The mean relative humidity was close to the normal at both stations. Above 90% of humidity was observed from 27 to 29 (top).

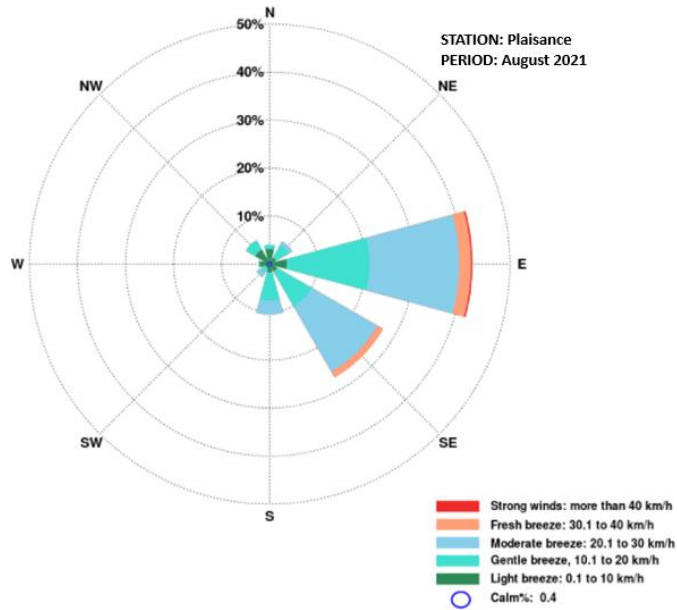
The number of daily bright sunshine hours was close to the normal at Vacoas and Plaisance; with a daily mean difference of -0.6 hours compared to their respective LTM. Day 04, and day 27-29 had the lowest sunshine hours. The total number of monthly bright sunshine hours at Vacoas was 205.5 (92% of LTM) and at Plaisance it was 168.2 (90% of LTM).



Monthly mean humidity (top) sunshine hours (bottom)



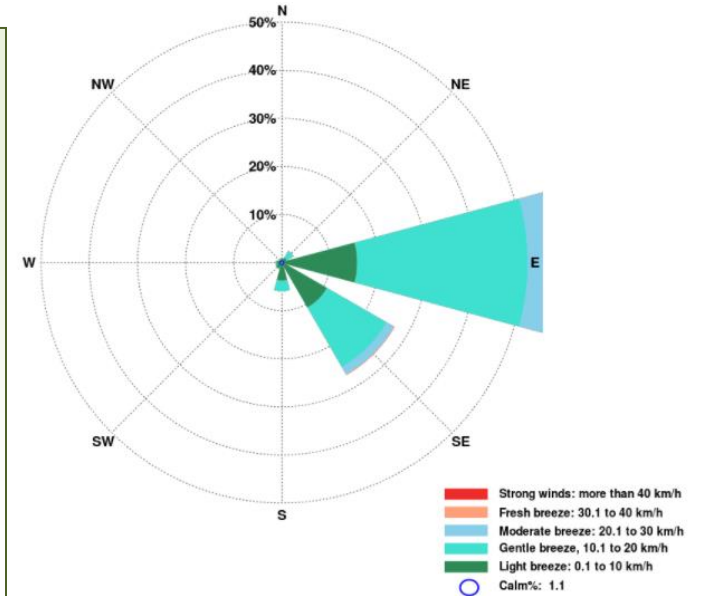
## Winds



Wind frequencies from Plaisance (left) and Vacoas (right) shows winds mainly from the eastern and south-eastern sector during the month.

Strong winds were observed from Day 27 to Day 28. Some of the highest gusts recorded were as follows:

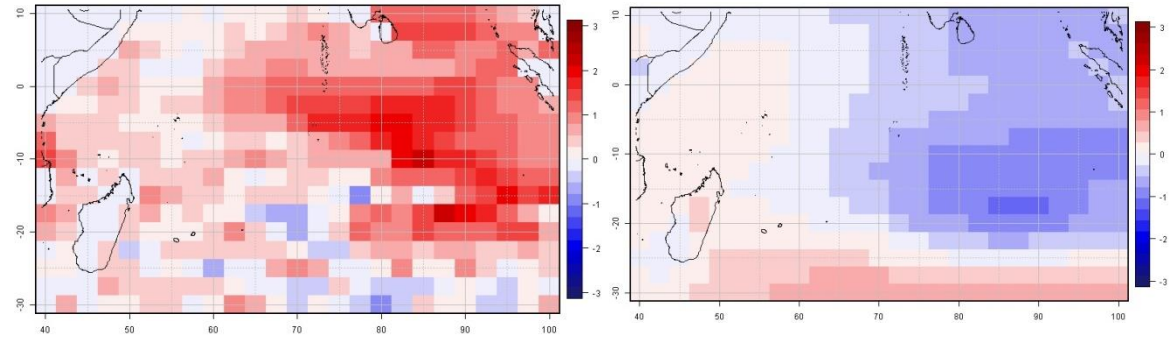
Champ de Mars: 101 km/h  
Le Morne: 101 km/h  
Vacoas: 80 km/h  
Nouvelle Decouverte: 79 km/h  
Domaine les Pailles: 79 km/h  
Grand Bassin: 79 km/h



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

Currently neutral ENSO condition is prevailing over the equatorial Pacific Ocean. However, there is a high probability that a weak La Nina will establish by November 2021. The IOD and SIOD will remain neutral.

The Mascarene region is forecast to be in a neutral SST.



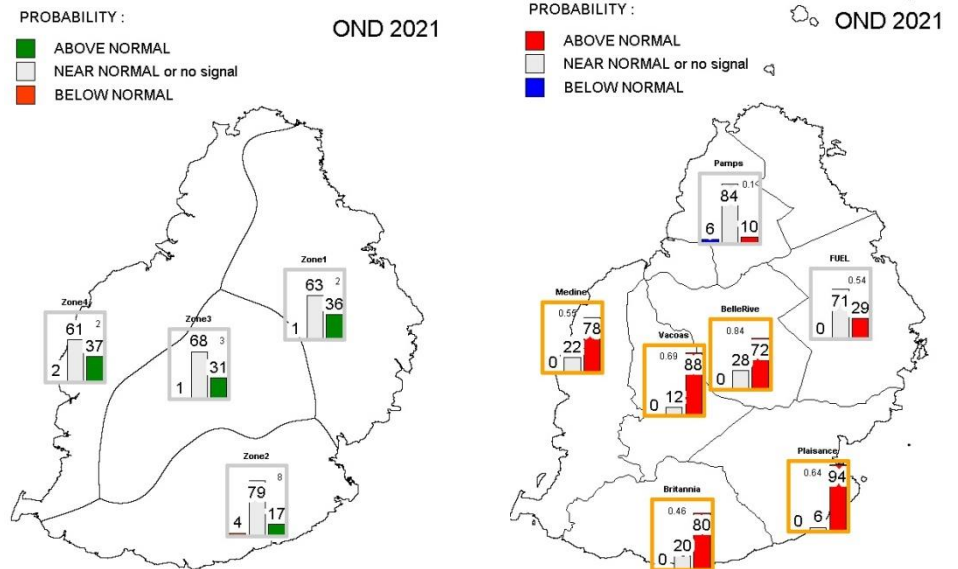
Sea surface temperature (left) and pressure anomaly (right) charts for OND 2021

### Consensus forecast for Mauritius

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

- October slightly above normal (~90 mm),
- November slightly below normal (~70 mm),
- December slightly below normal (~145 mm),

Mean temperature is forecast to be normal in the north and the east and above normal in the remaining sectors of the island (Fig. 11b).



Statistical Model Forecast for (a) rainfall and (b) temperature

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