



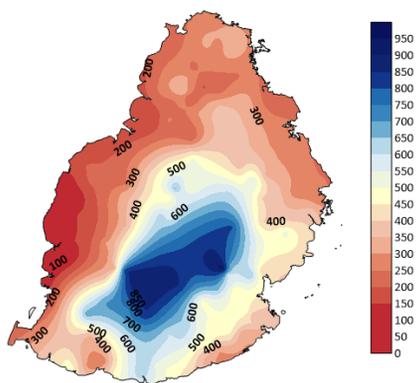
MAURITIUS METEOROLOGICAL SERVICES

CLIMATE APRIL 2022

Introduction

April 2022 was very wet and relatively cooler most of the time during the day. Two storms namely, Issa and Jasmine 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) and the Madden Julian Oscillation (MJO) were in the neutral phases.

Monthly rainfall

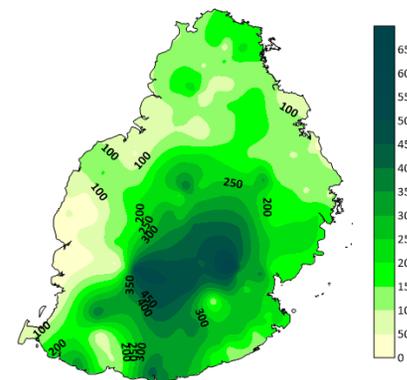


Rainfall

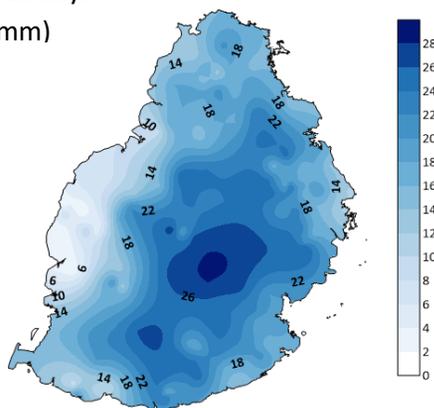
April 2022 was very wet with 443 mm of rainfall, representing 215 % of the long term mean for this month. Rainfall was in excess almost over the whole island and locally over the central plateau it was above normal by over 450 mm. Eighty-one percent (81%) of the total rainfall was recorded in the first fortnight and 19% in the second half.

The highest cumulative rainfall for the month was 929.5 mm recorded at Cent Gaulettes.

Monthly rainfall Anomaly



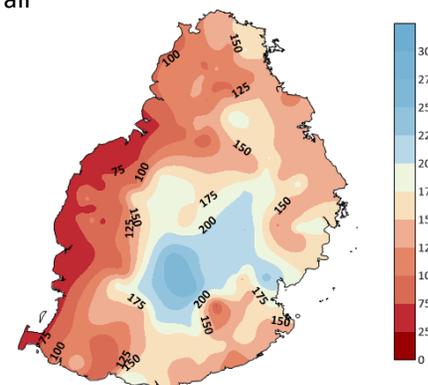
Rainfall days (> 1 mm)



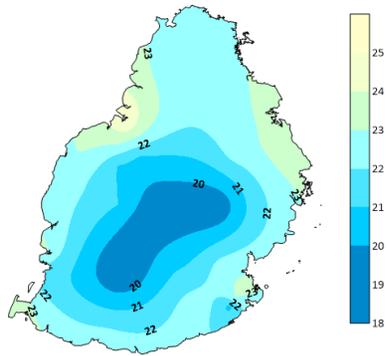
The highest number of rainy days (≥ 1 mm of rain) was observed mainly over the windward part of the central plateau; 28 rainy days at Eau Bleue Dam and 27 rainy days at Bois Cheri, Cent Gaulettes, Sans Souci and Mon Bois.

Highest 24-hour rainfall was 270 mm recorded at Mon Bois on 01 April 2022.

Highest 24-hour Rainfall



Minimum Temperature



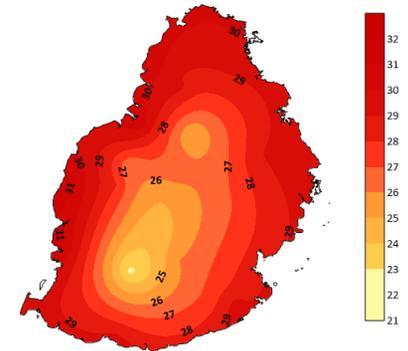
Temperature

The mean temperature over the island was $-0.06\text{ }^{\circ}\text{C}$ cooler compared to the LTM of 1991-2020. The mean minimum temperature was $0.1\text{ }^{\circ}\text{C}$ warmer and the mean maximum temperature was $-0.3\text{ }^{\circ}\text{C}$ cooler.

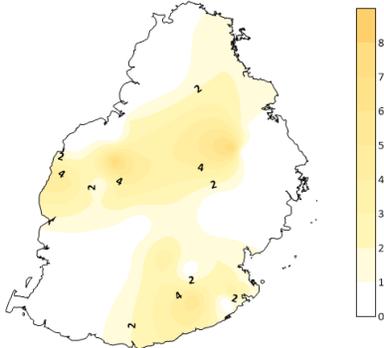
The highest maximum recorded was $33.8\text{ }^{\circ}\text{C}$ at Riviere Noire on Day 19. The lowest maximum temperature recorded was $20.2\text{ }^{\circ}\text{C}$ at Grand Bassin on Day 24.

The highest minimum was $26.6\text{ }^{\circ}\text{C}$ at Port Louis on Day 04. The lowest minimum was $16.1\text{ }^{\circ}\text{C}$ at Grand Bassin recorded on Day 23.

Maximum Temperature



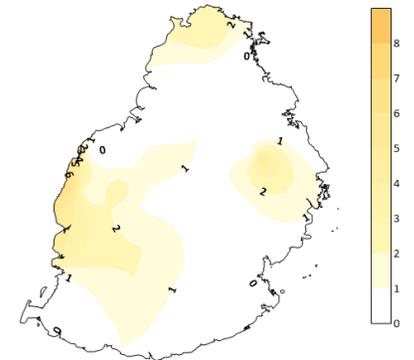
Warm nights



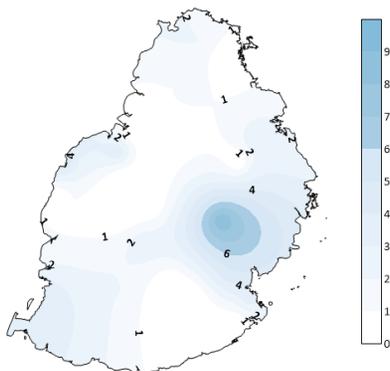
Few warm nights were observed over the island during the month. The highest number of warm nights was 8 at Fuel and Redit.

Highest number of warm days were observed to the west and the east; 7 warm days at Medine and 5 warm days at Albion and Queen Victoria. Elsewhere, the number of warm days varied between 1 and 4.

Warm days



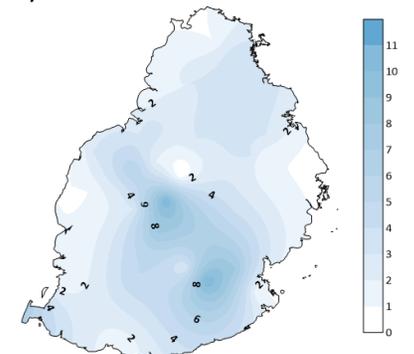
Cold nights

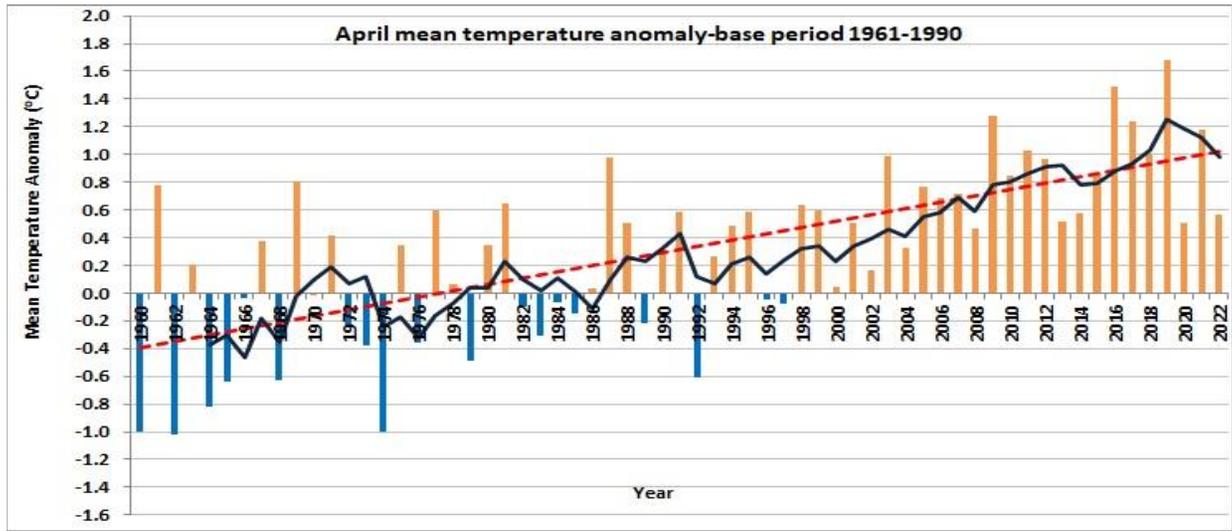


Few cold nights were observed during the month, mainly in the region of Sans Souci where 9 cold nights were recorded. In other regions it varied between 0 to 5.

Cold days were observed across the island. The highest number of cold days was 11 at Rose Belle and Belle Rive. In other regions number of cold days varied between 0 to 8.

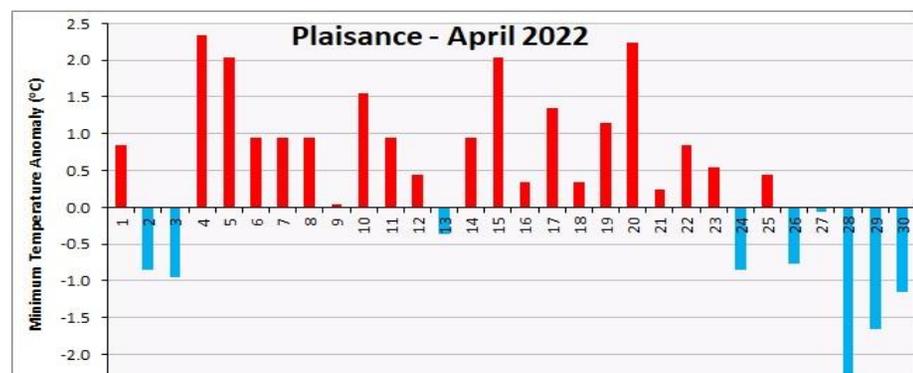
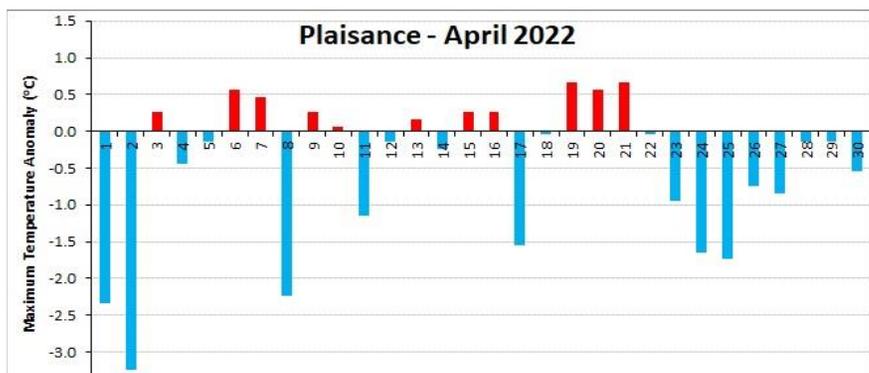
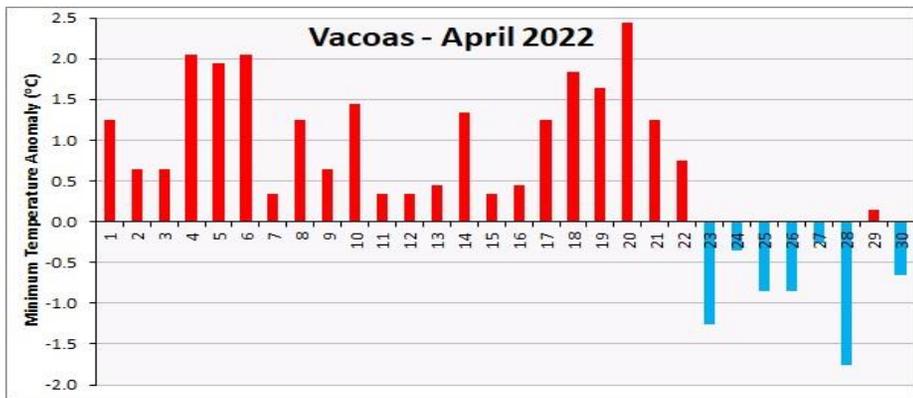
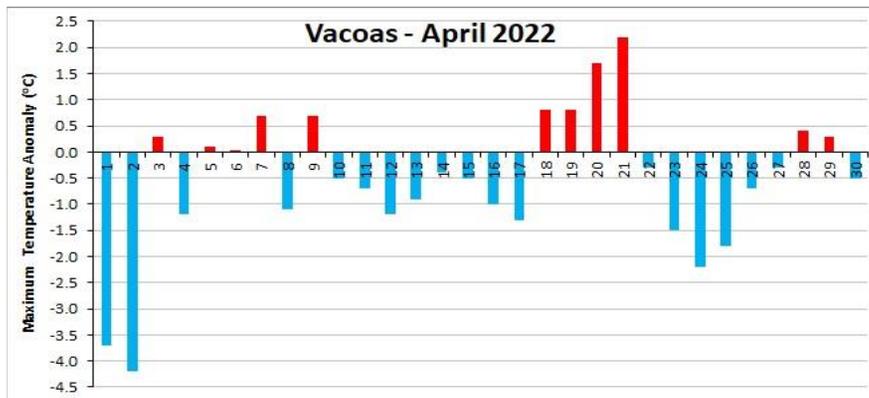
Cold days





Daytime temperature anomalies were exceptionally cooler both at Vacoas and Plaisance during the month. At the start maximum temperatures were below normal by 2-4 °C.

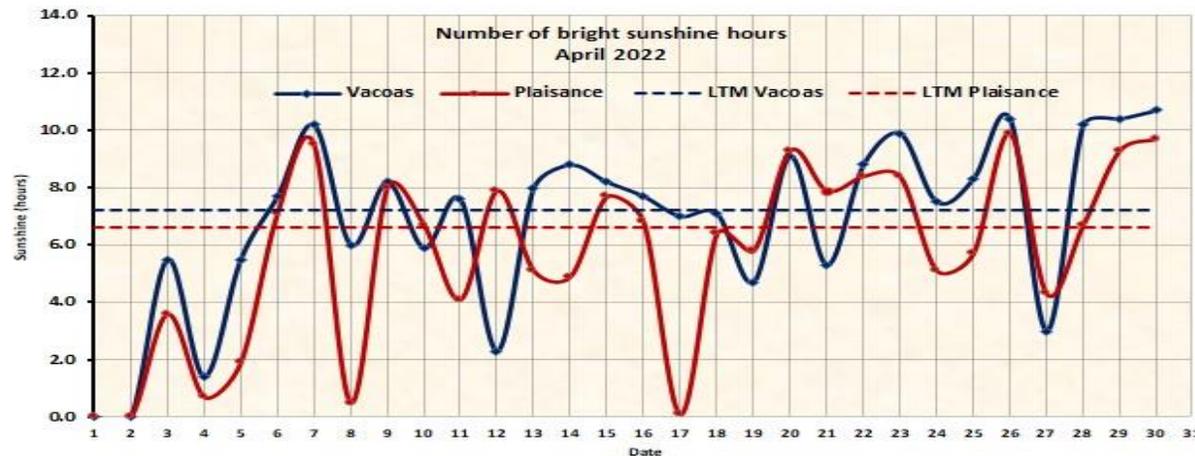
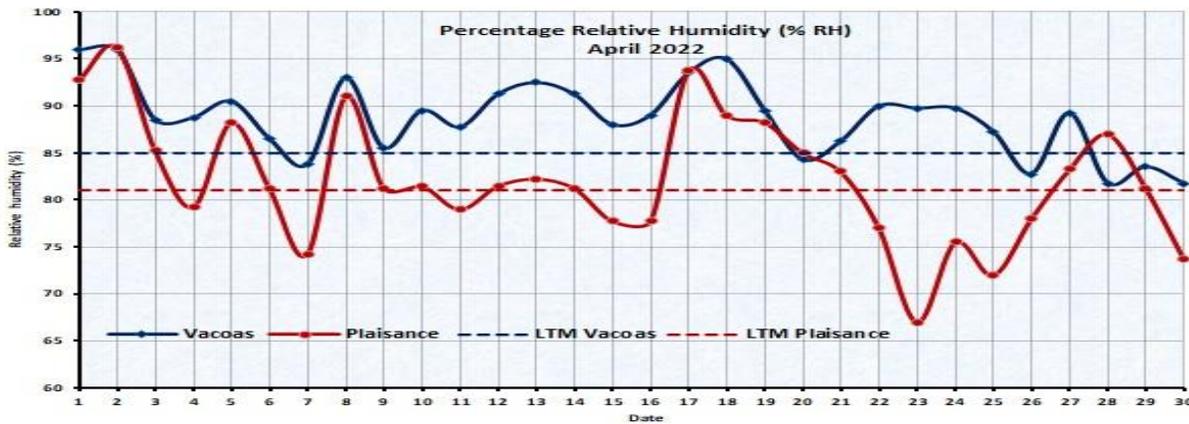
Minimum temperatures anomalies were warmer by 1-2 °C during the first 3 weeks of April. However, during the last week, because of advection of relatively colder air, minimum temperatures dropped by 1-2 °C both at Vacoas and Plaisance.



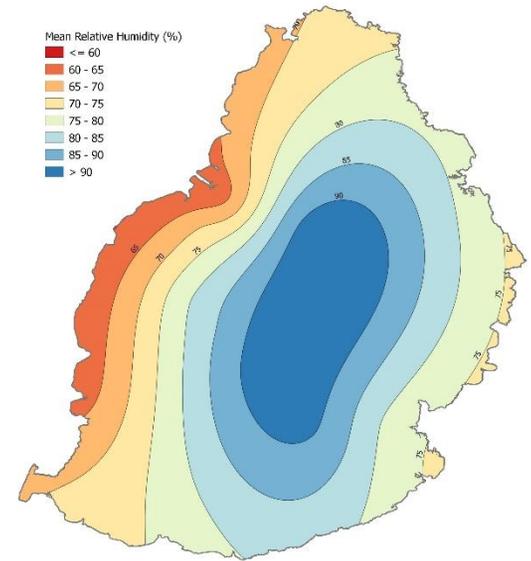
Sunshine and Humidity

The mean relative humidity was close to the normal at Vacoas and slightly below at Plaisance. The daily humidity ranged from 82 to 96% at Vacoas and from 67 to 96 % 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.

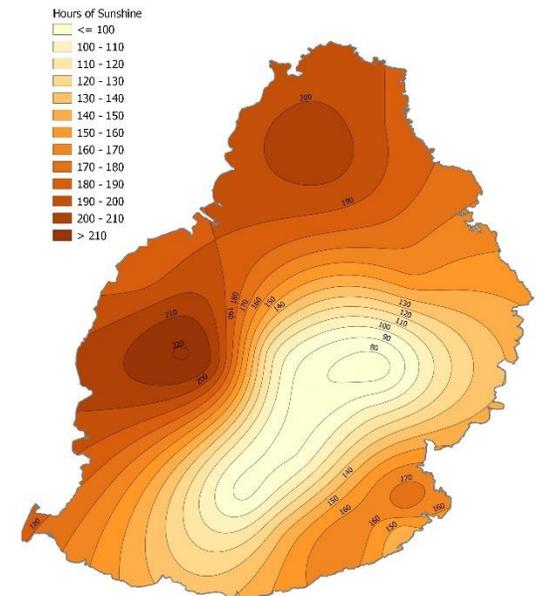
The number of daily bright sunshine hours were 95 percent of the normal at Vacoas and 87 percent at Plaisance (anomaly was -0.4 at Vacoas and -0.9 at Plaisance). The highest number of sunshine hours at Vacoas was 10.7 and at Plaisance 9.9 hours (recorded on Day 30 and on Day 26 respectively). The lowest number of sunshine hours was 0.0 both at Plaisance and Vacoas, recorded on Day 01 and Day 02. The total number of monthly bright sunshine hours at Vacoas was 205.4 and at Plaisance 171.5, representing 95% and 87% of the LTM respectively.



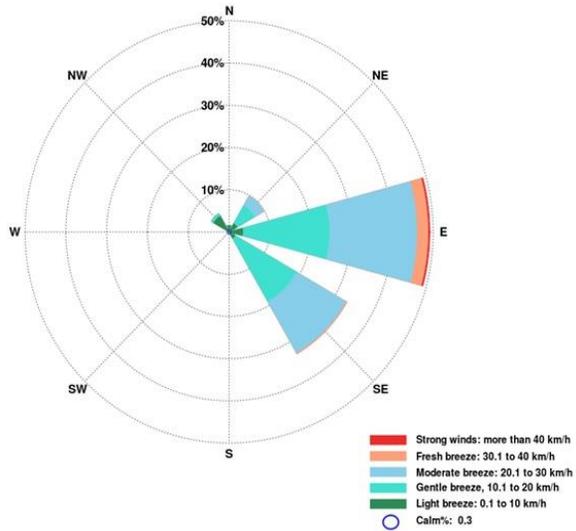
Monthly mean humidity



Monthly total sunshine hours



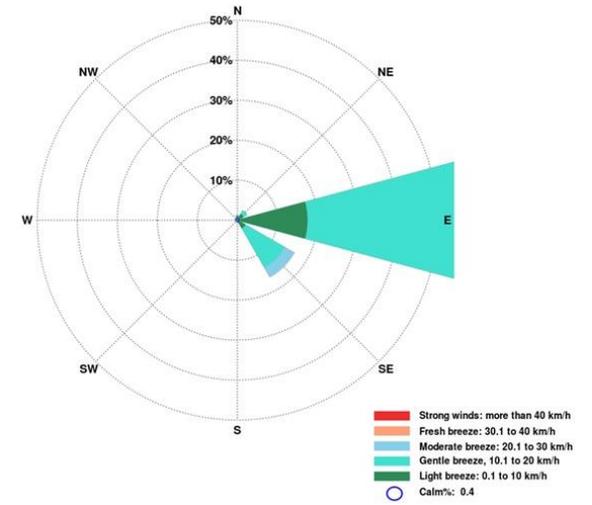
Winds



Wind frequencies from Plaisance (left) and Vacoas (right) show winds mainly from the eastern sector. On other instances, the wind blew from the south east and the north east. 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:

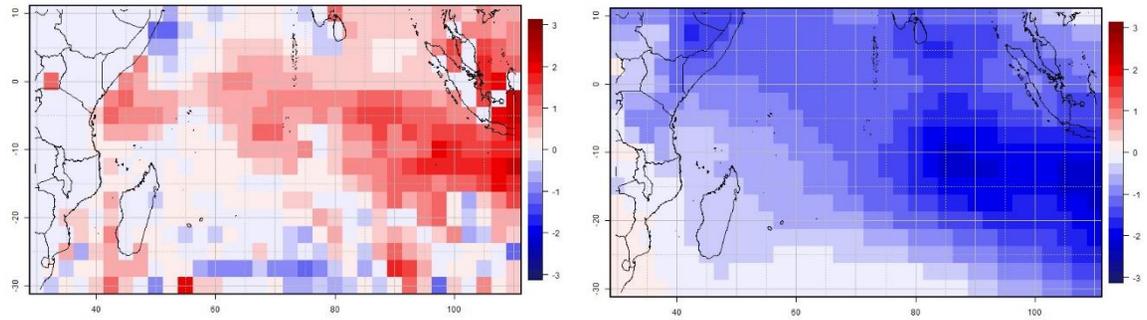
Regions	Highest gusts (km/h)	Date
Champ de Mars	94	14
D. L. Pailles	79	14
Le Morne	72	1
Vacoas	71	1
Bell Village	70	14
Plaisance	67	2
Beaux Songes	65	2
Grand Bassin	65	12
St. Felix	65	2, 12



FORECAST FOR JUNE-JULY-AUGUST

Weak La Nina conditions are expected to persist in the equatorial Pacific Ocean and gradually transit to neutral ENSO conditions by the end of the forecast period. IOD will gradually migrate to the moderate negative phase by August while SIOD is expected to remain neutral.

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



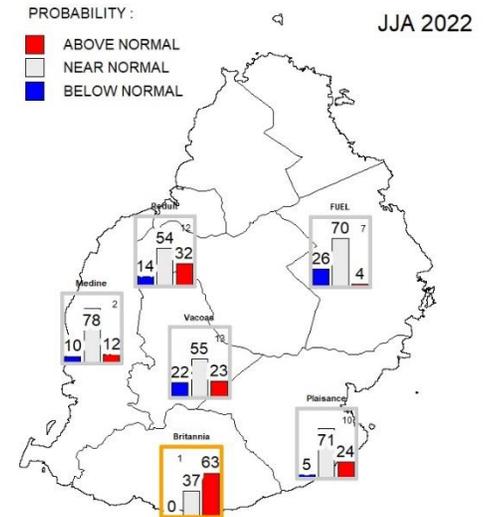
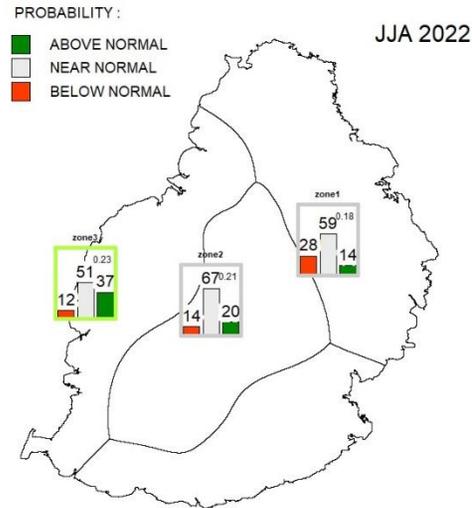
(a) Sea surface temperature and (b) pressure anomaly charts for JJA 2022

Consensus forecast for Mauritius

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

- June: normal (~ 105 mm)
- July: normal (~ 125 mm)
- August: normal (~ 110 mm)

Mean temperature is forecasted to be close to the normal.



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Updated on: 05 June 2022

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