



MAURITIUS METEOROLOGICAL SERVICES

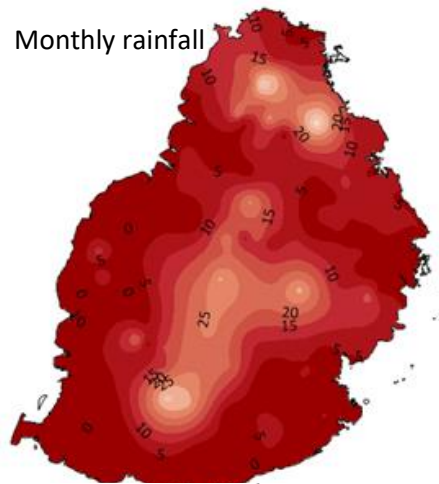
CLIMATE NOVEMBER 2021



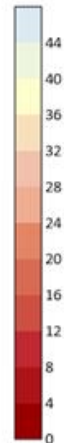
Introduction

November 2021 was the driest November on record. La-Nina conditions sustained during the month. The Indian Ocean Dipole (IOD) in the equatorial Indian Ocean moved towards neutral conditions. The Subtropical Indian Ocean Dipole remained neutral with a tendency to gradually migrate towards positive values. The weak Madden Julian Oscillation (MJO) evolved over the Eastern Indian Ocean.

Rainfall



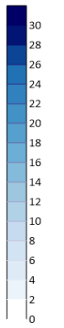
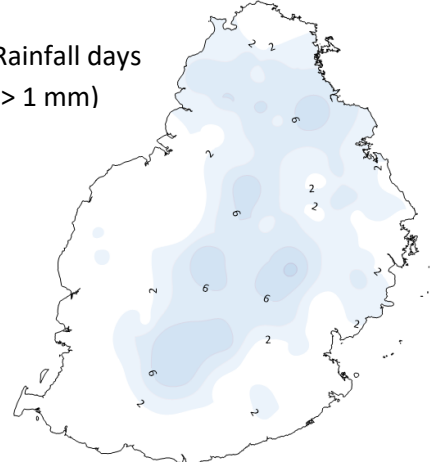
Monthly rainfall



13 mm of rainfall was recorded over the island which is equivalent to 15% of the long term mean for the month; 25% of the total rainfall was recorded in the first fortnight and 75% in the second half.

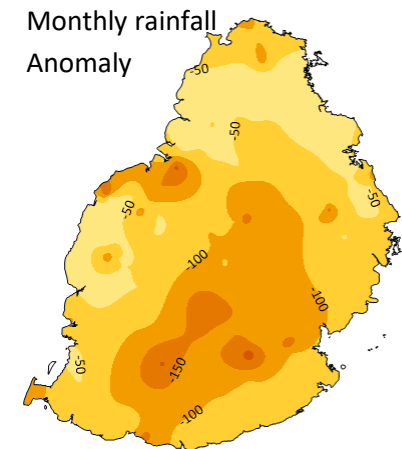
The highest station cumulative rainfall for the month was around 43.1 mm recorded in the region of Mon Loisir Sugar Estate.

Rainfall was mainly deficient over the island by up to 200mm especially to the south and parts of the central plateau.

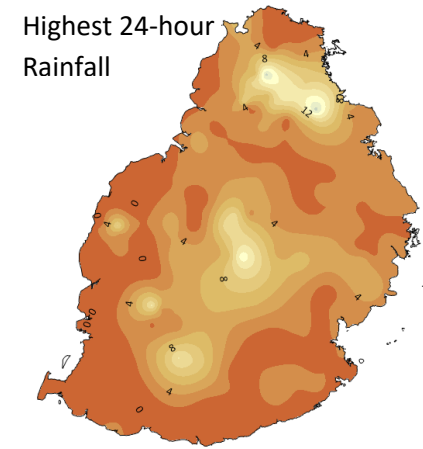
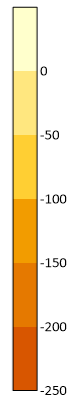


The highest number of rainy days was observed over the central plateau; 9 rainy days at Sans Souci. Over the other parts of the island, about 2 to 6 rain days (≥ 1 mm of rain) were observed.

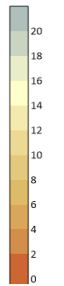
Highest 24-hour rainfall was 19 mm at Mon Loisir Sugar Estate.



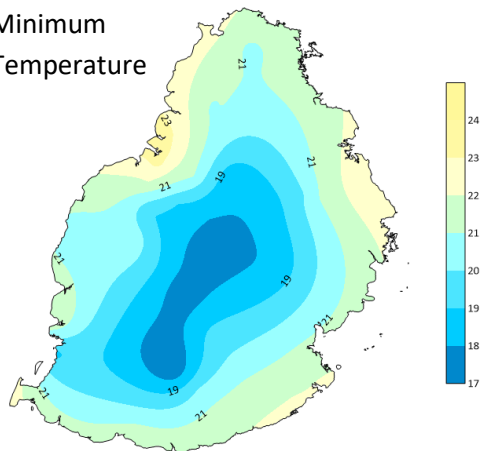
Monthly rainfall Anomaly



Highest 24-hour Rainfall



Minimum Temperature



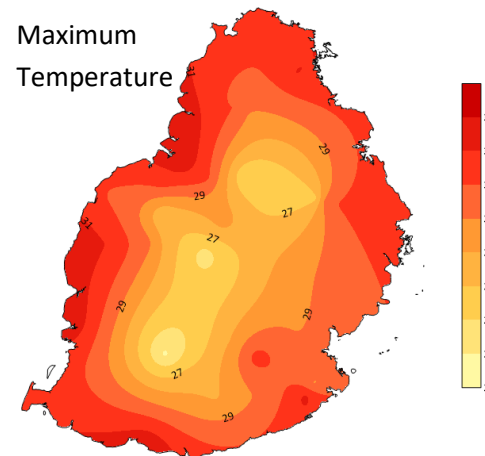
Temperature

Compared to LTM 1991-2020, the mean temperature over the island was close to the normal (0.28 °C). The mean minimum and maximum temperatures were also close to the normal (0.1 °C and 0.5 °C) respectively.

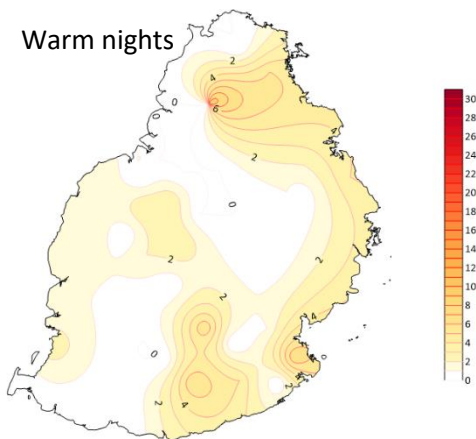
The highest maximum recorded was 34 °C at Riviere Noire on Day 14 and the lowest was 20.7 °C at Grand Bassin on Day 08.

The highest minimum temperature was 25.4°C at Port Louis on Day 31 and the lowest was 15 °C in the region of Belle Rive on Day 6 and at Alma on Day 1.

Maximum Temperature



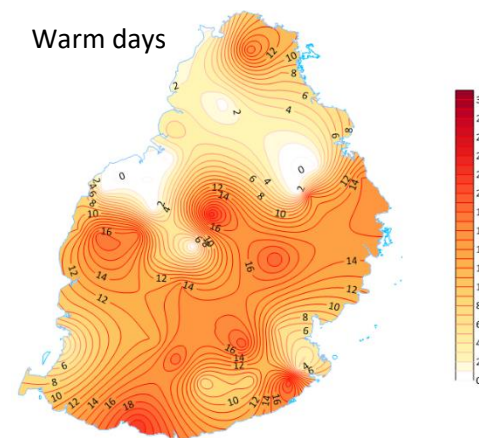
Warm nights



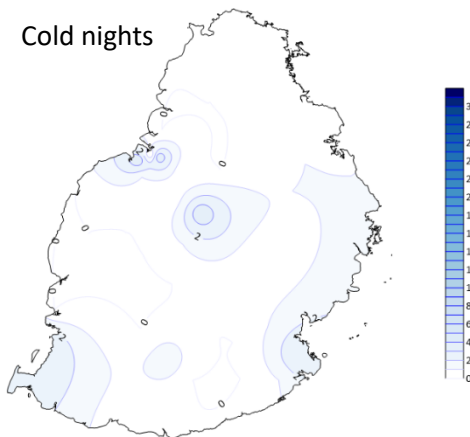
Warm nights were particularly observed to the north; 9 warm nights at Ferret.

The island on the whole experienced warm days especially as from the end of the first week. 22 warm days were observed at St Felix and Alma.

Warm days



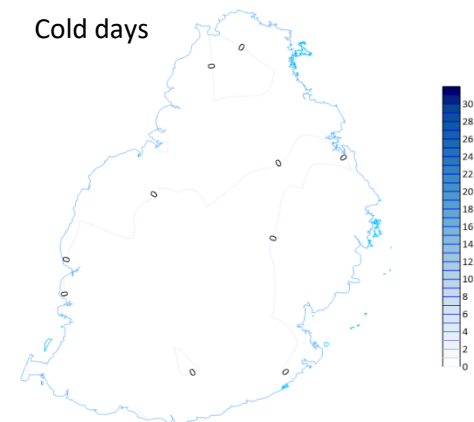
Cold nights

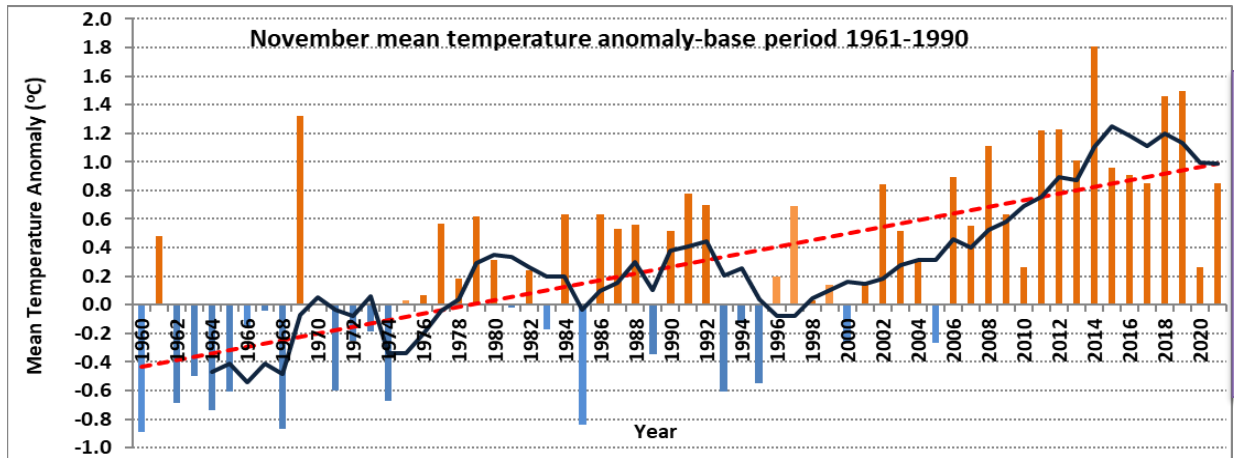


Few cold nights were mostly observed to the northwest with 4 such nights at Bel Village and Champ de Mars.

Since the island experienced mainly warm days, the number of cold days was close to nil.

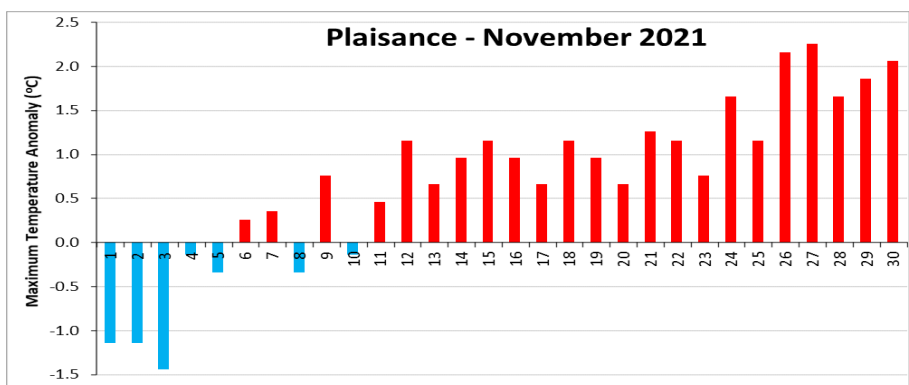
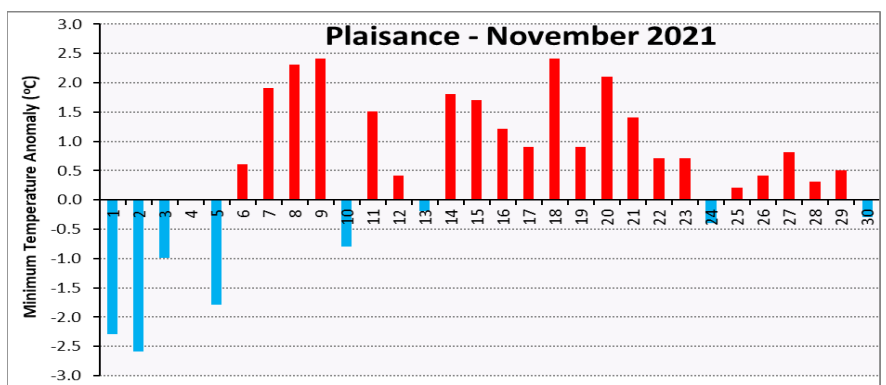
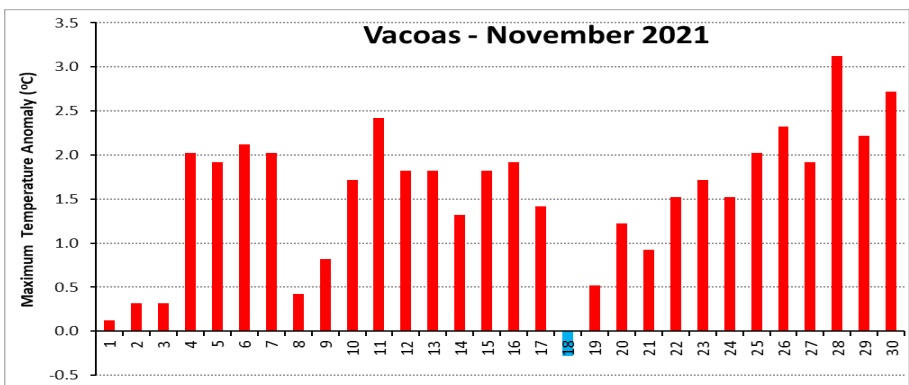
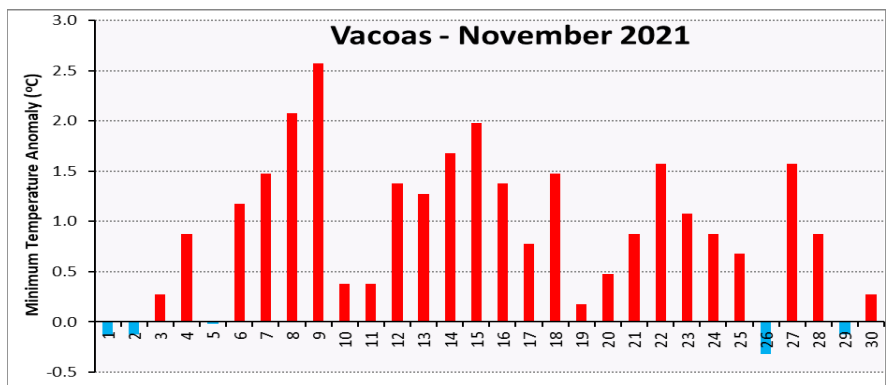
Cold days





The island experienced cooler days and nights at first but it became gradually warmer towards the end of the month. Thus, Day 1 was the coolest and the last day was the warmest.

Warm days anomaly temperatures were above by 2-5 °C and cold days anomaly temperatures were below by 1-3 °C.

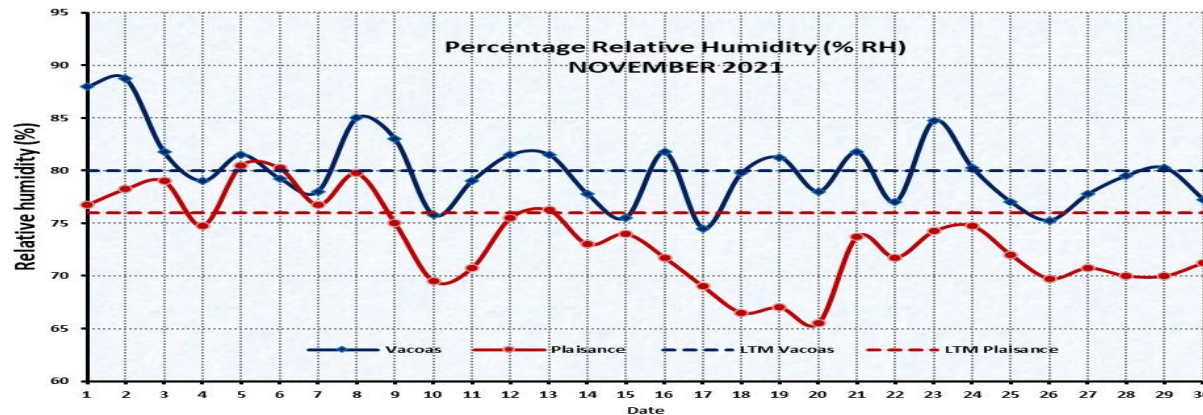


Sunshine and Humidity

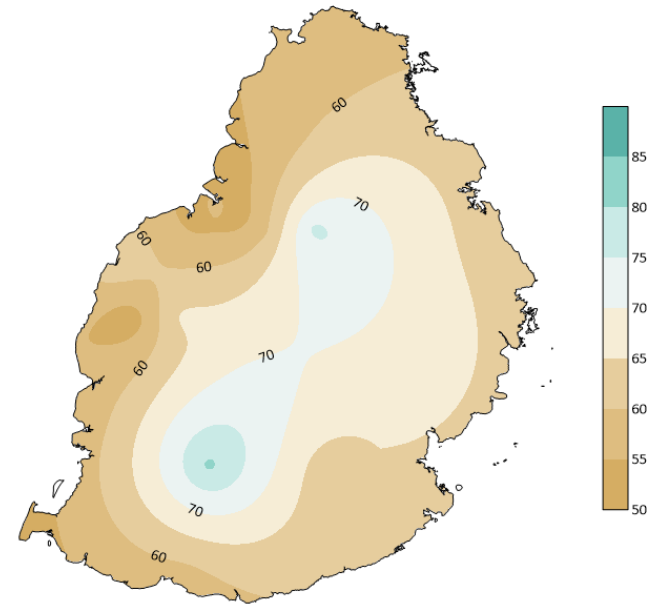
The mean relative humidity was close to normal at both stations. The daily humidity ranged from 74 to 88 % at Vacoas and from 65 to 91 % at Plaisance.

The number of daily bright sunshine hours was slightly above normal at Plaisance and normal at Vacoas; the anomaly was +1.6 and nil respectively. The highest number of sunshine hours of 12.1 was recorded on Day 17, and the lowest sunshine hour recorded was 2.0 on Day 11, both recorded at Plaisance.

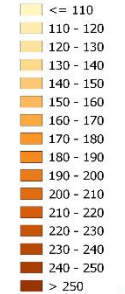
The total number of monthly bright sunshine hours at Vacoas was 234.6 (100% of LTM) and at Plaisance it was 299.4 (119% of LTM).



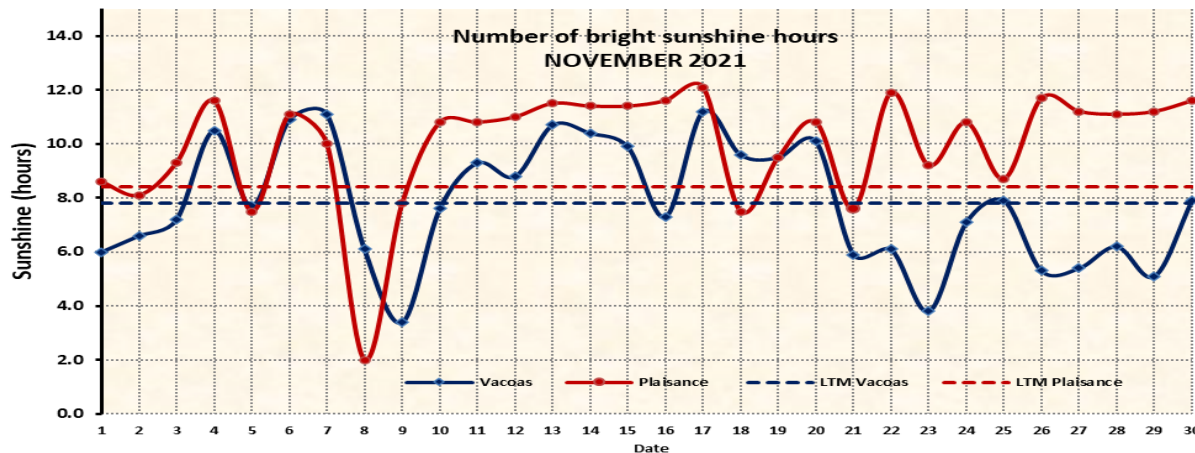
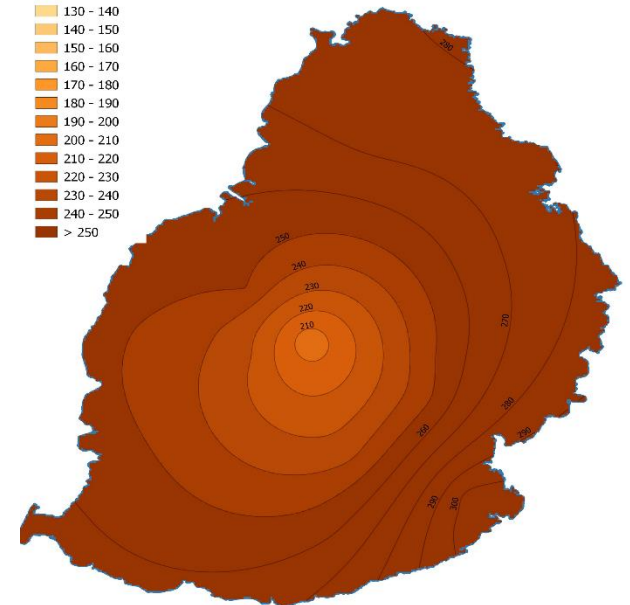
Monthly mean humidity



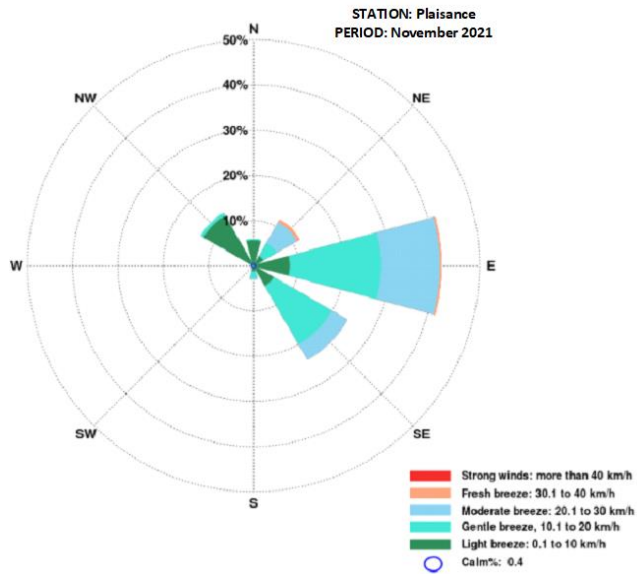
Hours of Sunshine



Monthly total sunshine hours

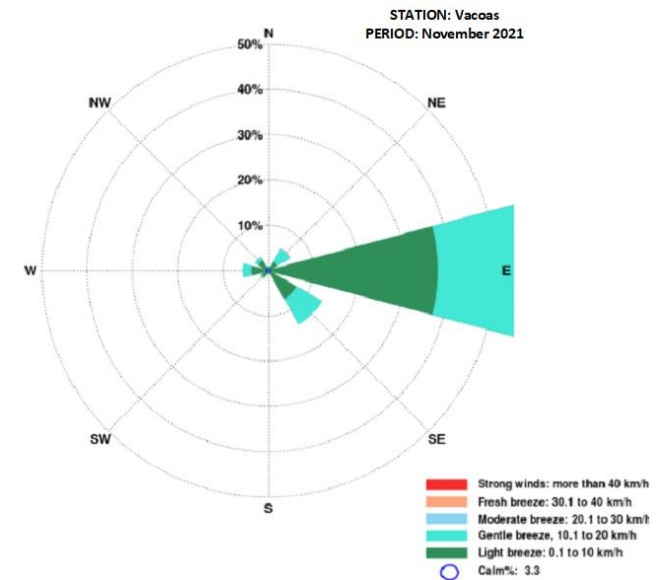


Winds

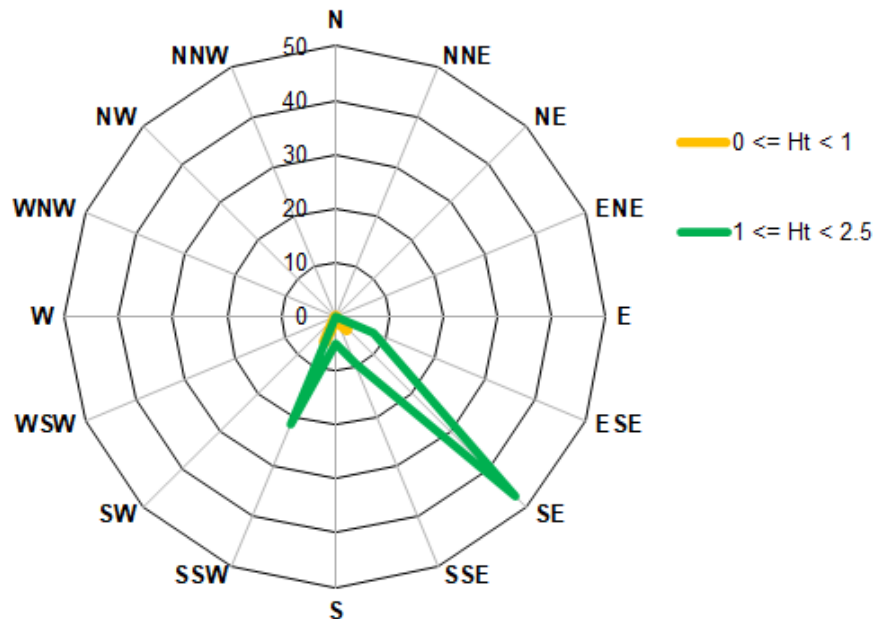


Wind frequencies from Plaisance (left) and Vacoas (right) shows winds mainly from the east. On few other instances, the wind blew from the south east or northern sector.

Regions	Date	Highest gusts (km/h)
Champ de Mars	18	76
St. Felix	18	54
Albion	15	50
Le Morne	6, 18	50
P aux Canonniers	18	50
Beaux Songes	19	50
N. Decouverte	18, 19	50



Sea state



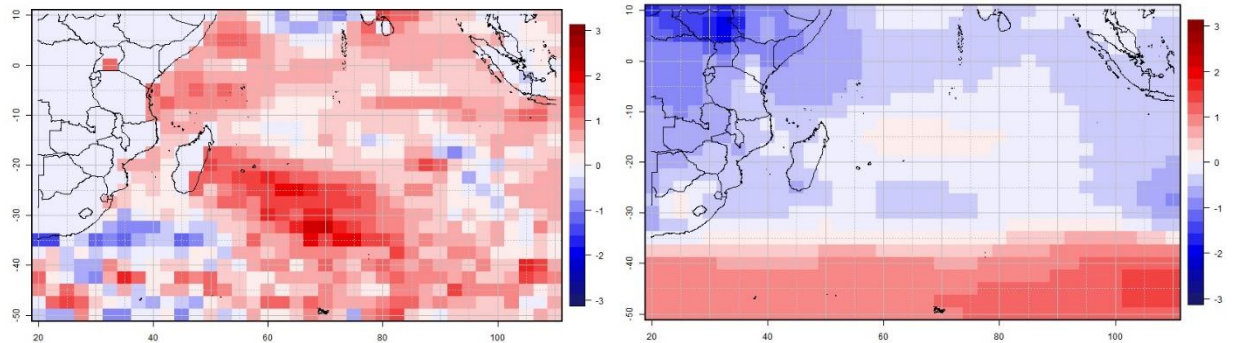
Significant waves recorded indicated that the sea was mainly moderate with southeasterly swell waves of height between 1 and 2.5 m. On few occasions, moderate swells from the south southwest influenced the open sea.

Sea parameter	Date	Height in meters
Highest significant wave recorded	19 & 29	1.70
Highest wave recorded	19	3.07

FORECAST FOR JANUARY-FEBRUARY-MARCH (JFM)

Weak La Nina conditions will persist in the equatorial Pacific Ocean till the end of the forecast period. IOD will remain neutral whereas SIOD will be moderately positive.

The Mascarene region will be in a warm pool during this period as shown in the SST chart.



Consensus forecast for Mauritius

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

- January slightly below normal (~ 225 mm),
- February normal (~ 290 mm)
- March normal (~ 265 mm)

Mean temperature is forecasted to be slightly above normal except for the north and west where it is expected to be near normal.

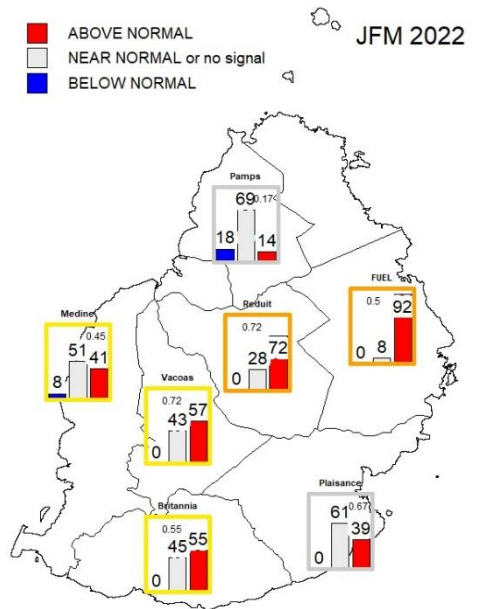
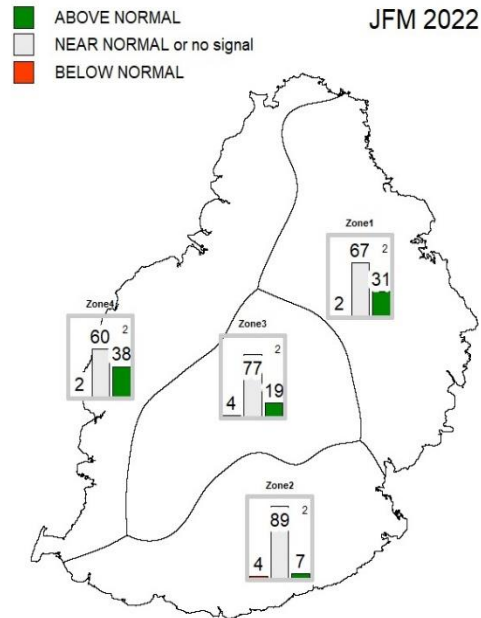
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Sea surface temperature (a) and pressure (b) anomaly charts for JFM 2022



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