



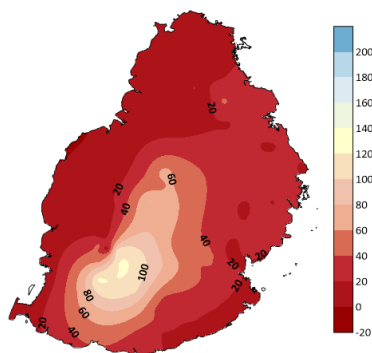
MAURITIUS METEOROLOGICAL SERVICES

CLIMATE SEPTEMBER 2024

Introduction

Rainfall was deficient during September 2024 and the mean temperature was warmer than the normal for the month. The El Niño Southern Oscillation (ENSO), the Indian Ocean Dipole (IOD) and the Subtropical Indian Ocean Dipole (SIOD) were in the neutral phase. The signal of the Madden-Julian Oscillation (MJO) was weak in the Indian Ocean during the month.

Monthly rainfall



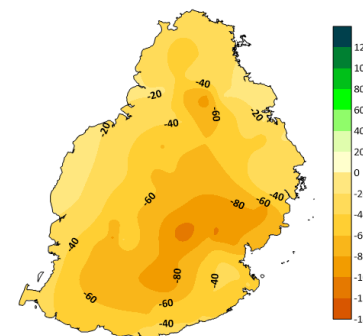
Rainfall

Well below rainfall was recorded during September 2024 with a mean of 46 mm and representing 46% of the long-term mean. The Western regions of Mauritius recorded the lowest mean rainfall for the month.

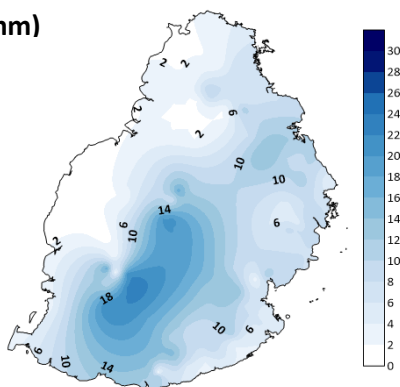
The first fortnight recorded about 48% of the total rainfall and the remaining amount was recorded in the second fortnight.

The highest cumulative rainfall for the month was 123.3 mm, recorded at Petrin.

Monthly rainfall Anomaly



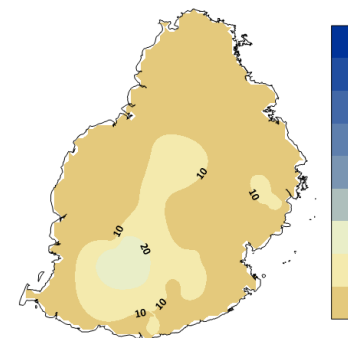
Rainfall days (> 1 mm)



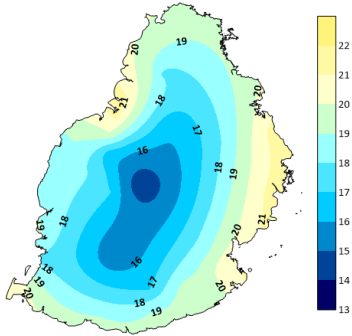
The highest number of rainy days (≥ 1 mm) was observed at Arnaud and at Petrin with 23 and 22 rainy days respectively.

Highest 24-hour rainfall was 26.2 mm recorded at Petrin, on 14 September.

Highest 24-hour Rainfall



Minimum Temperature

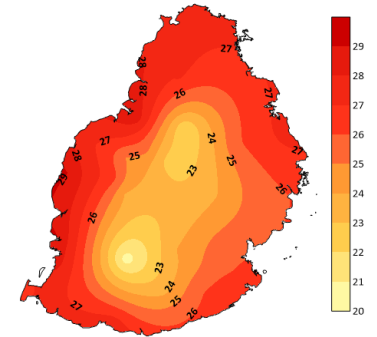


Temperature

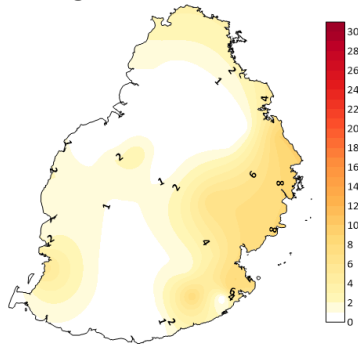
The highest maximum was 31.8 °C at Riviere Noire, recorded on 23 September. The lowest maximum temperature recorded was 16.9 °C at Grand Bassin on 14 September.

The highest minimum was 22.8 °C at Port Louis and Belle Mare, recorded on 27 September and the lowest minimum was 12.5 °C at Bois Cheri, recorded on 15 September.

Maximum Temperature



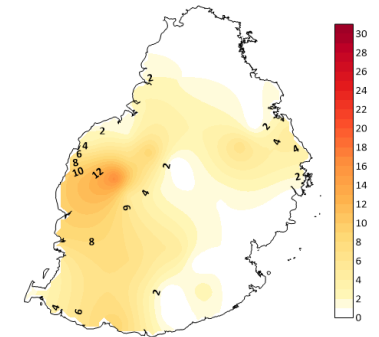
Warm nights



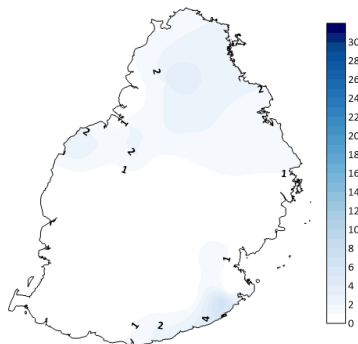
Few warm nights were recorded during the month. The highest number of warm nights observed was 09 at Belle Mare.

Days were particularly warm in certain places during the month. The highest number of warm days was 17 at Quatre Bornes and 10 at Medine.

Warm days



Cold nights

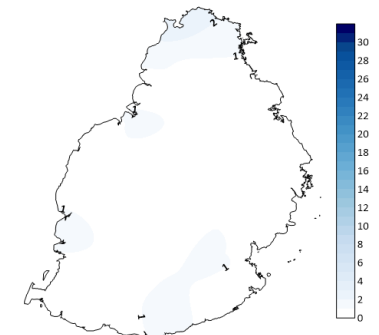


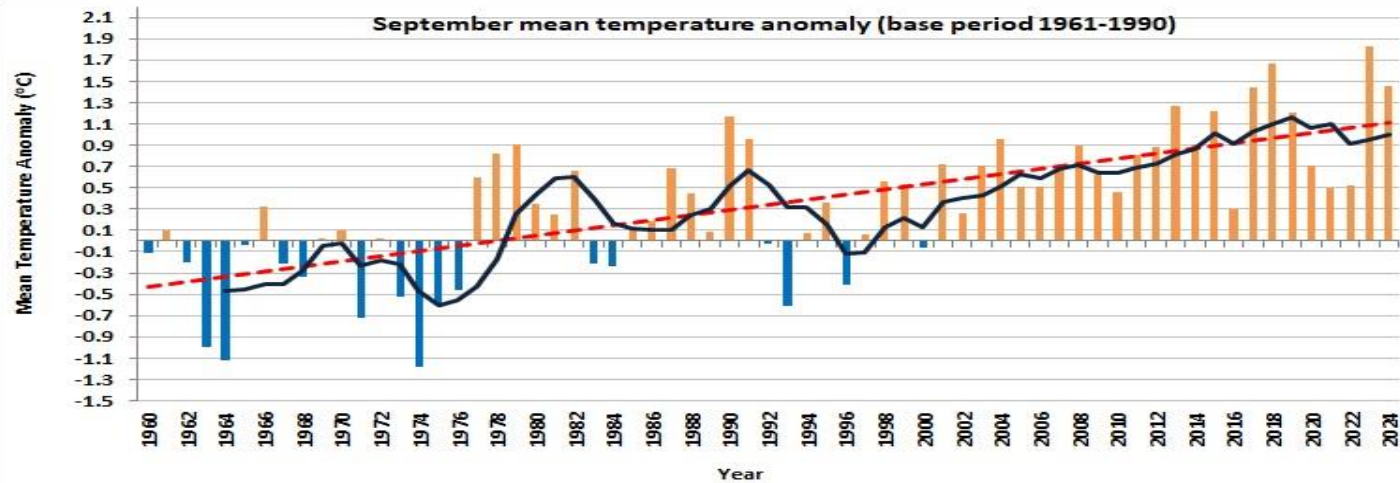
Few cold nights and cold days were recorded during the month.

The highest number of cold nights recorded was 07 at Mon Desert Mon Tresor and 04 at Ferret.

The highest number of cold days recorded was 03 at Pointe aux Canoniers.

Cold days



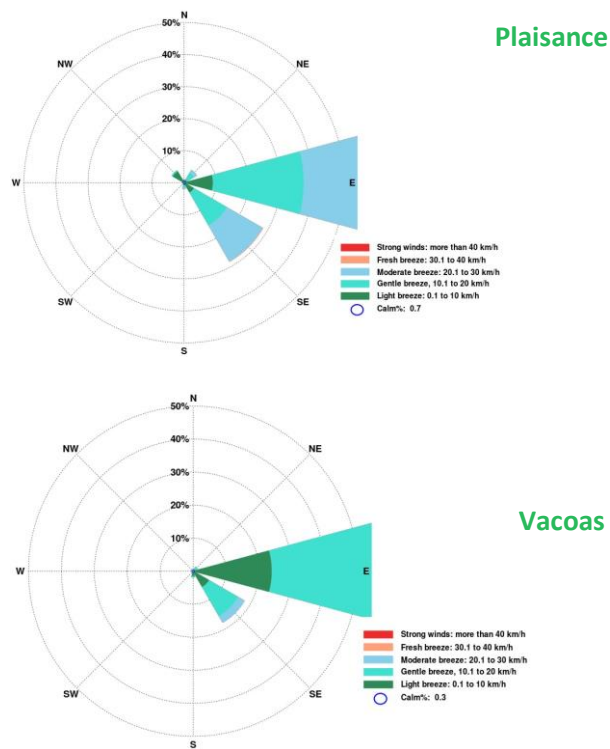


September 2024 was the third warmest since 1960.

The mean temperature over the island was 0.84 °C warmer than the LTM of 1991-2020.

The mean maximum temperature was 0.9 °C warmer than long-term mean and the mean minimum temperature was 0.8 °C warmer than the long-term mean.

Winds



Wind frequencies show winds mainly from the Eastern and South Eastern sectors both at Plaisance (top) and at Vacoas (bottom). Light to moderate winds prevailed most of the time over the island. However, on a few occasions, fresh breeze to strong winds were recorded at certain places.

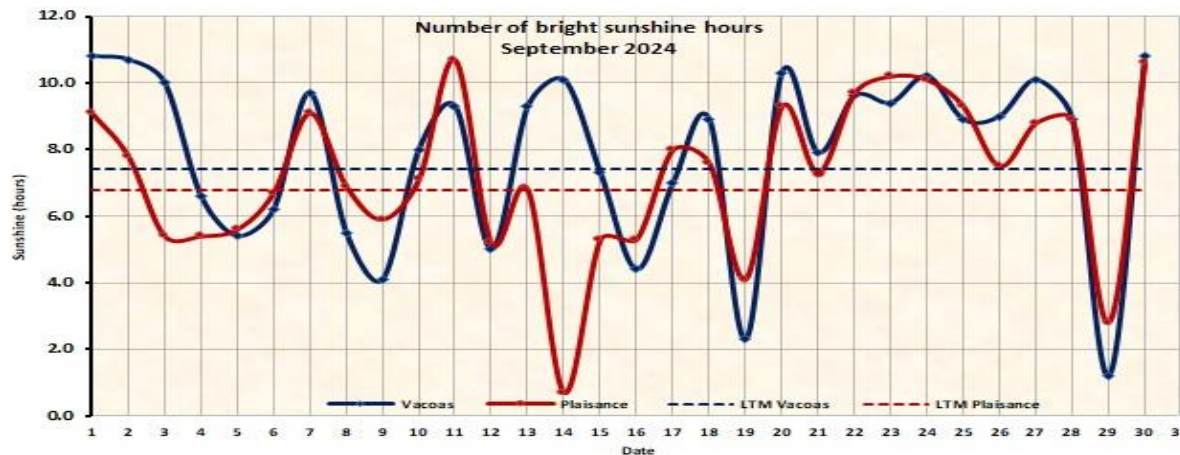
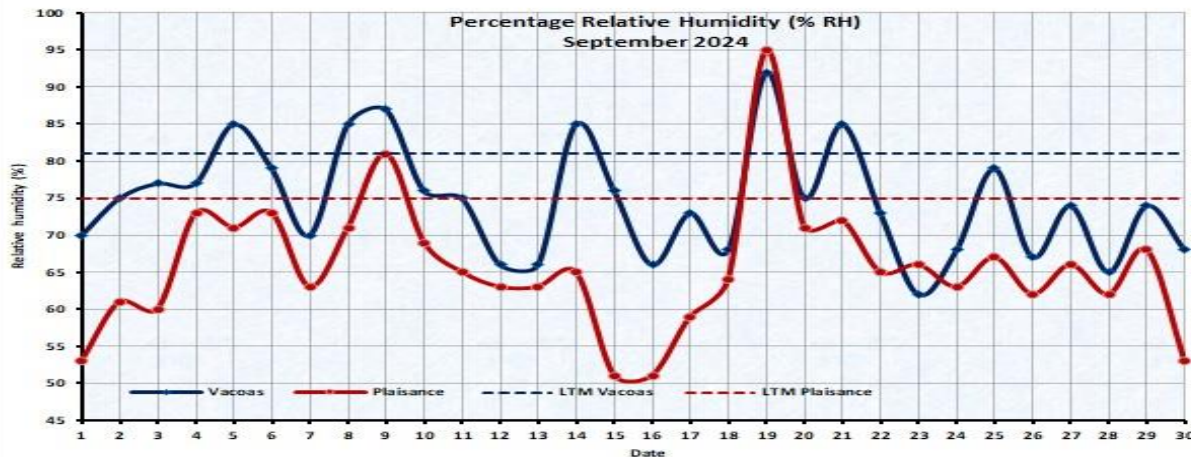
The highest gusts recorded over the island were as follows:

Regions	Highest gusts (km/h)	Date
Quatre Soeurs	78	14
D. Les Pailles	76	14
Le Morne	74	15
Champ de Mars	72	14
Bagatelle Dam	70	30
Plaisance (Pulsonic)	66	15
Vacoas	61	15

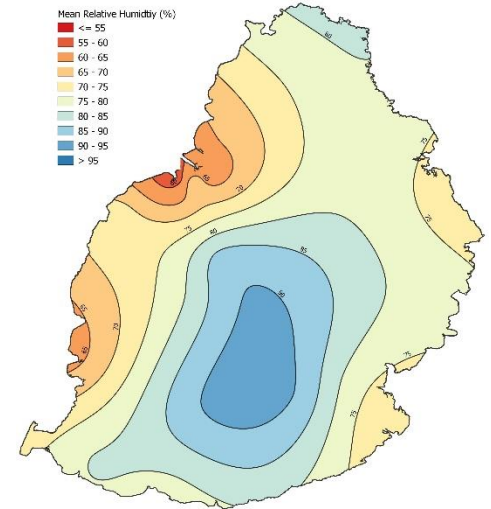
Sunshine and Humidity

The mean relative humidity for the month was 95% at Vacoas and 66% at Plaisance. The daily humidity ranged from 62 to 92% at Vacoas and from 51 to 95% at Plaisance.

The average number of daily bright sunshine hours were 107% of the normal at Vacoas and 106% at Plaisance (anomaly of +0.5 at Vacoas and +0.4 at Plaisance). The highest number of sunshine hours was 10.7 both at Vacoas (recorded on 01 September) and Plaisance (recorded on 11 September). The lowest number of sunshine hours was 1.2 at Vacoas (recorded on 29 September) 0.7 hours at Plaisance (recorded on 14 September). The total number of bright sunshine hours for the month was 236.9 at Vacoas and 217.2 at Plaisance.



Monthly mean humidity
September 2024



Monthly total sunshine hours
September 2024

