



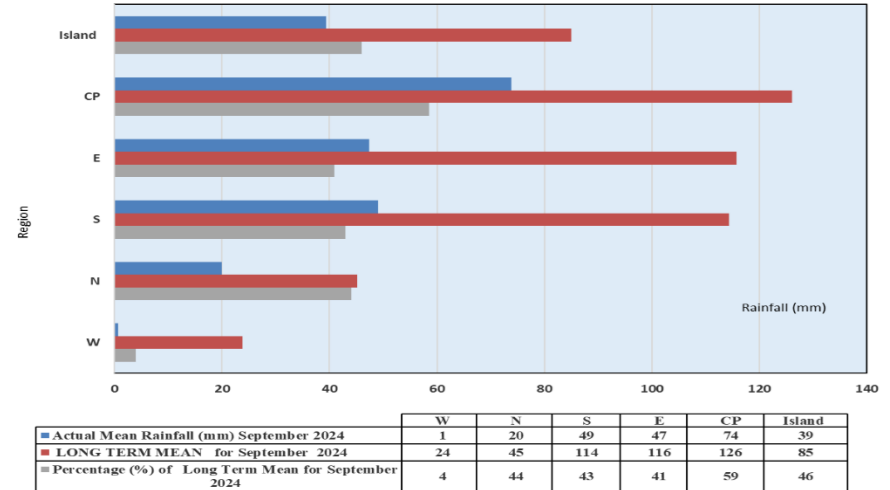
MAURITIUS METEOROLOGICAL SERVICES

Mean Rainfall for 1-30 September 2024 updated on 07 October 2024

Mauritius

September 2024 turned out to be the third driest September since the last 30 years, with a mean rainfall of 39 mm, representing 46% of the long-term mean.

The Western region recorded both the lowest rainfall amount and lowest percentage.



Outer Islands

		Amount (mm)		
Stations		Actual Rainfall	LTM Rainfall	% of LTM
Rodrigues	Pointe Canon	32	47	68
	Plaine Corail	27	45	60
	Citronelle	72	89	81
Agalega		38	56	68
St. Brandon		-	-	-

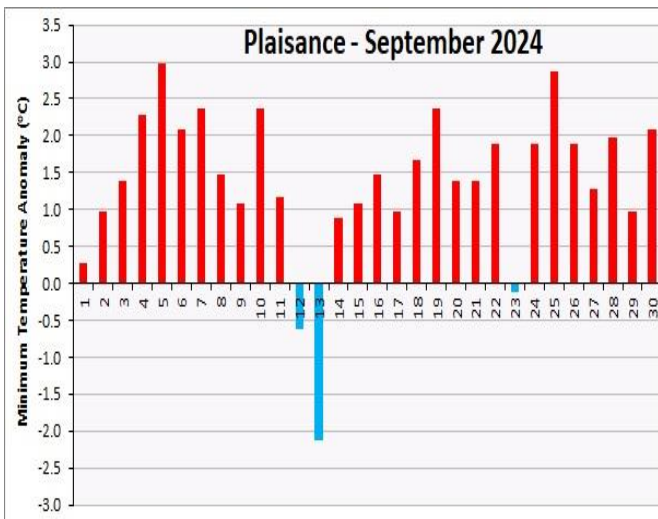
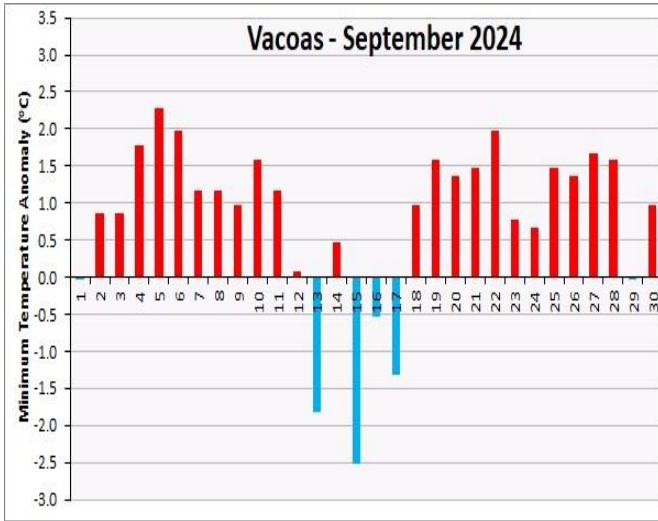
- Well Below normal were recorded over both Rodrigues and Agalega
- Currently data is not available for St Brandon



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Temperature for September 2024

Minimum Temperature



Temperature

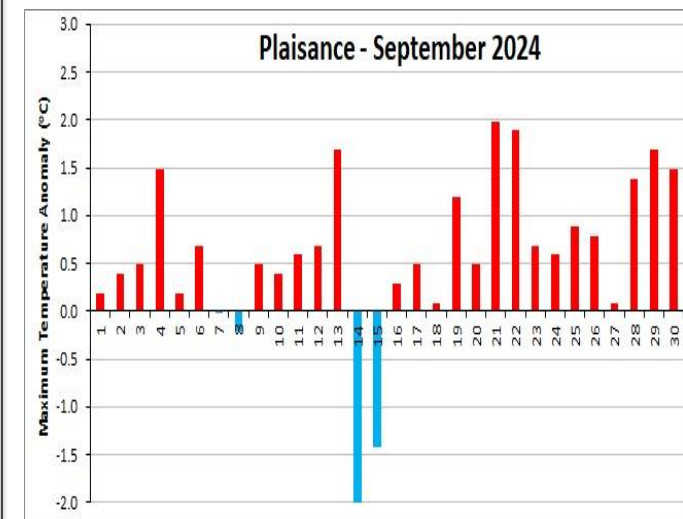
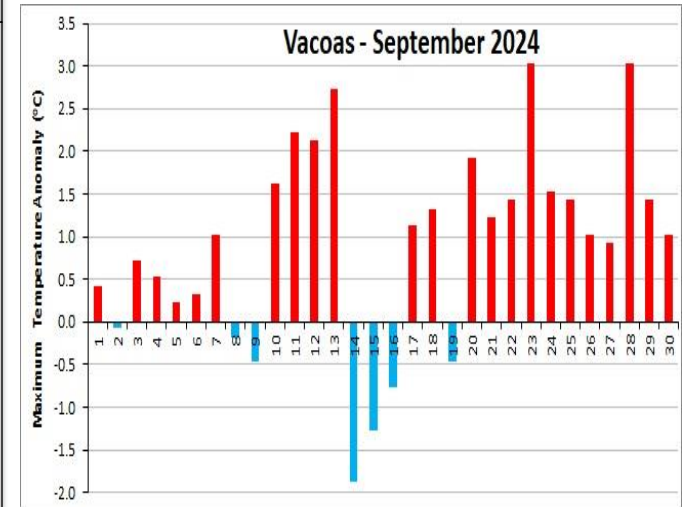
Minimum temperature was on average 0.8 °C and 1.4 °C warmer than the normal at Vacoas and Plaisance respectively.

Maximum temperature was on average 0.9 °C and 0.6 °C warmer than the normal at Vacoas and Plaisance respectively.

The highest and lowest minimum and maximum temperatures recorded at Vacoas and Plaisance were:

Vacoas		
	Min	Max
Highest	18.5 °C (05 September)	26.1 °C (23 & 28 September)
Lowest	13.7 °C (15 September)	21.2 °C (14 September)
Plaisance		
	Min	Max
Highest	22.0 °C (05 September)	27.5 °C (21 September)
Lowest	16.9 °C (13 September)	23.5 °C (14 September)

Maximum Temperature



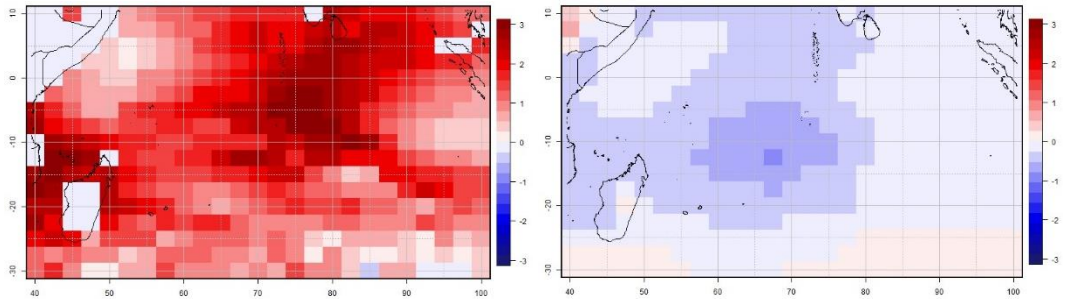


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Rainfall and Temperature Forecast for Oct-Nov-Dec (OND) 2024

Weak La Nina conditions are expected to establish in October while the IOD and SIOD conditions are expected to remain neutral during the forecast period.

Sea surface temperatures are expected to be above normal and pressure anomalies to be near normal in the Mascarene region as shown in the SST and pressure anomaly charts respectively.



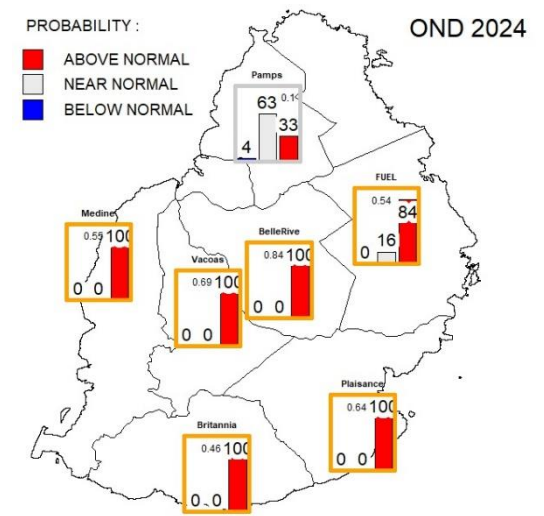
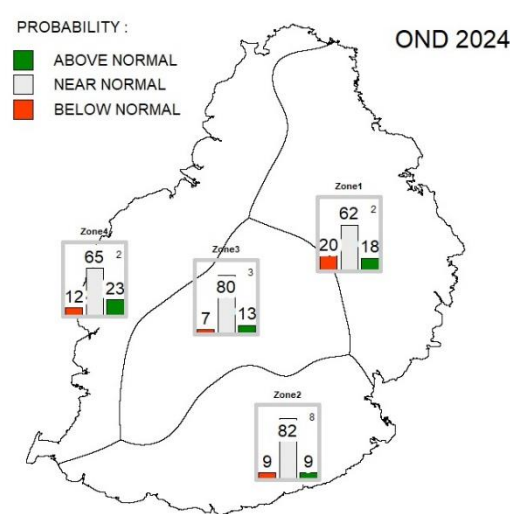
(a) Sea surface temperature (sst) anomaly and (b) pressure anomaly charts for OND

Consensus rainfall forecast for Mauritius

In spite statistical rainfall forecast is showing **normal tendency**, the cumulative rainfall for October to December 2024 is expected to be **below normal** as follows:

- **October:** Below Normal (about 55 mm)
- **November:** Below Normal (about 60 mm)
- **December:** Slightly Below Normal (about 120 mm)

Mean temperature is forecasted to be above normal over the whole island.



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

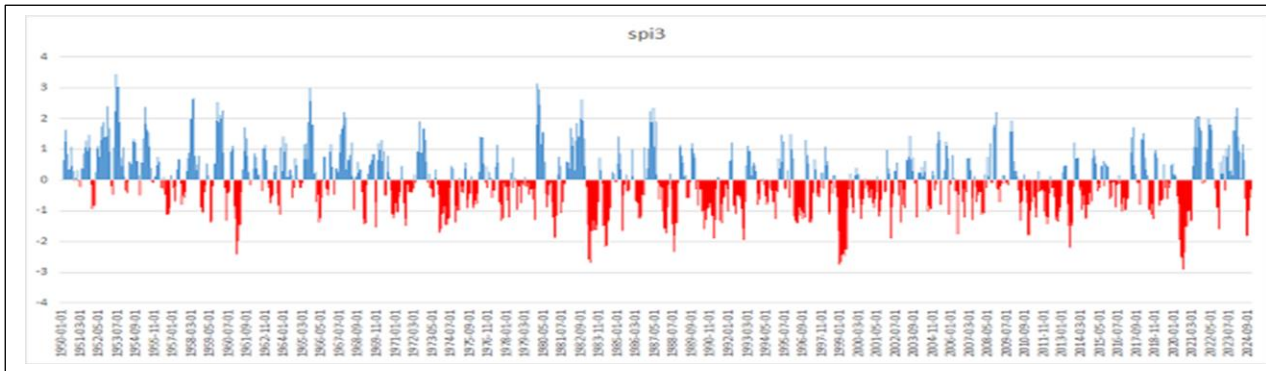


MAURITIUS METEOROLOGICAL SERVICES

Standardised Precipitation Index (SPI) Monitoring in Mauritius

Aim: To apply the Standardized Precipitation Index (SPI) as approved by the World Meteorological Organization in the Republic of Mauritius to monitor rainfall deficits during dry spell events.

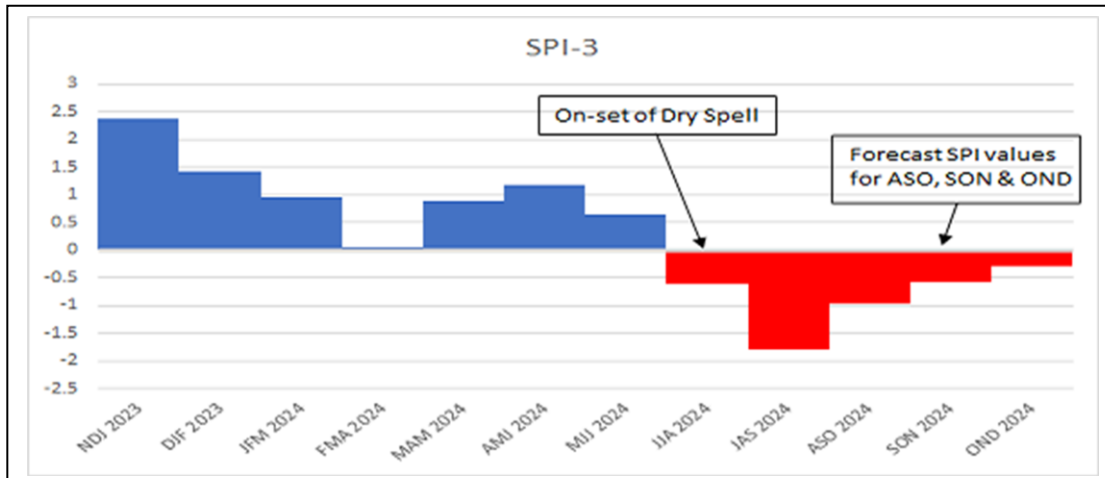
Current Status: The period JAS recorded an SPI value of **-1.81** which represents **“Severely Dry”** as per the legend table. The forecast SPI values for ASO, SON and OND 2024 are as follows: **-0.98, -0.58 and -0.30** respectively. **The SPI status shows the dry spell has peaked in JAS (Fig (b)) and rainfall deficits may persist in the forthcoming 3-monthly periods.**



(a) Historical SPI-3 values since 1950

Observed SPI Status 2024		
Period	SPI-3 Value	Category
JFM	+2.36	Extremely Wet
FMA	+1.42	Moderately Wet
MAM	+1.07	Moderately Wet
AMJ	+1.17	Moderately Wet
MJJ	+0.64	Near Normal
JJA	-0.60	Weakly Dry
JAS	-1.81	Severely Dry
Forecast SPI based on Monthly RR Data		
ASO	-0.98	Moderately Dry
SON	-0.58	Weakly Dry
OND	-0.30	Near Normal

Legend		
WMO SPI Dry/Wet Classifications		
Level	SPI Values	Category
1	+2.0 and above	Extremely Wet
2	+1.5 to +1.99	Very Wet
3	+1.0 to +1.49	Moderately Wet
4	-0.99 to +0.99	Near Normal
5	-1.0 to -1.49	Moderately Dry
6	-1.5 to -1.99	Severely Dry
7	-2.0 and less	Extremely Dry



(b) Current SPI-3 value, Status & Forecast

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Acting Director, Meteorological Services,
St Paul Road, Vacoas.

Tel: 6861031/32, Fax: 6861033, email: meteo@intnet.mu

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