Seasonal Climate Outlook



MAM Seasonal Forecast

SEYCHELLES METEOROLOGICAL AUTHORITY





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SEYCHELLES METEOROLOGICAL AUTHORITY
March-April-May (MAM) 2022 Seasonal Climate Outlook

1. December-January-February (DJF) 2021/2022 Performance

Table 1 below shows that the rainfall recorded during the December-January-February (DJF) 2021/2022 season was mostly Near-Normal over most areas, with only 2 stations that recorded Above-Normal rainfall and 1 that recorded Below-Normal rainfall.

Table 1: December-January-February (NDJ) 2021/2022 Performance

Stations	DJF	Long Term Mean	BN	AN	BN?	AN?	Anomalies
Anse-Boileau	880.8	781	585.75	976.25	NO	NO	99.8
Anse-Forbans	1159.1	714.7	536.025	893.375	NO	YES	444.4
Anse-Royale-Waterwork-PUC	973.4	824.9	618.675	1031.13	NO	NO	148.5
Belombre	1151.7	1123.5	842.625	1404.38	NO	NO	28.2
Cascade-Waterwork-PUC	1042.6	1106.3	829.725	1382.88	NO	NO	-63.7
Fairview-La-Misere	1341.3	1193.4	895.05	1491.75	NO	NO	147.9
Hermitage-Waterwork-PUC	1131.1	1189.2	891.9	1486.5	NO	NO	-58.1
La-Gogue-Waterwork-PUC	790.9	976.7	732.525	1220.88	NO	NO	-185.8
Le-Niol-Waterwork-PUC	1221.1	1233.1	924.825	1541.38	NO	NO	-12.0
Praslin-Airstrip	441.3	714.1	535.575	892.625	YES	NO	-272.8
Quatre-Bornes-Police-Station	727.7	610.5	457.875	763.125	NO	NO	117.2
Rochon-Waterwork-PUC	1458.9	1311.6	983.7	1639.5	NO	NO	147.3
Seychelles-International-Airport	859.6	944.7	708.525	1180.88	NO	NO	-85.1
Tea-Factory-Morne-Blanc	1367.5	1049.9	787.425	1312.38	NO	YES	317.6

2. January-February-March (JFM) 2022 Performance

Table 2 below shows how the January-February-March (JFM) 2022 season is performing so far, two months into the season. 3 of the 14 stations considered for seasonal forecasting indicate wetter than average conditions with some significant positive anomalies. Drier conditions are however reported over 11 stations with strong negative anomalies.

Table 2: January-February-March (JFM) 2022 Performance

STATIONS	JAN TOTAL	FEB TOTAL	JAN+FEB	JFM LONG TERM MEAN	ANOMALIES
Anse-Boileau	490.2	65.5	555.7	662.9	-107.2
Anse-Forbans	756.9	109.7	866.6	598.7	267.9
Anse-Royale-Waterwork-PUC	664.4	70	734.4	697.2	37.2
Belombre	683.5	55	738.5	968.6	-230.1
Cascade-Waterwork-PUC	518.8	114	632.8	961.6	-328.8
Fairview-La-Misere	703.7	118.3	822	1067.5	-245.5
Hermitage-Waterwork-PUC	695.7	64.2	759.9	1028.3	-268.4
La-Gogue-Waterwork-PUC	467	54.9	521.9	830.7	-308.8
Le-Niol-Waterwork-PUC	701	74.5	775.5	1069.8	-294.3
Praslin-Airstrip	236.6	24.6	261.2	607.3	-346.1
Quatre-Bornes-Police-Station	498.2	36.8	535	526.2	8.8
Rochon-Waterwork-PUC	869.7	113.2	982.9	1147.7	-164.8
Seychelles-International-Airport	447.1	132.3	579.4	841.4	-262.0
Tea-Factory-Morne-Blanc	722.7	84.5	807.2	930.8	-123.6

3. Oceanic Patterns 2021/2022

Atmospheric and Oceanic indicators for the El Niño–Southern Oscillation (ENSO) persist at La Niña levels, but past its peak. However, trade winds remain stronger than average in the western Pacific, which has delayed further weakening of the La Niña over the past few weeks. Climate models suggest the 2021/22 La Niña will most likely return to neutral El Niño–Southern Oscillation (ENSO) towards May.

Monthly sea surface temperature anomalies (Figure 1) indicate cooling along the eastern coast of Madagascar and eastern African coast with cooling signals reducing with the weekly sea surface temperature anomalies. However, some warmer than average water is evident eastern side of the Indian Ocean basin.

The seasonal sea surface temperature anomalies indicate some warming to the eastern side of Indian Ocean basin. The Indian Ocean Dipole (IOD) is currently neutral. The latest weekly value of the IOD index to 13 March 2022 was −0.18 °C. Overall, climate model outlooks indicate the IOD will remain neutral for the coming months (Figure 2).

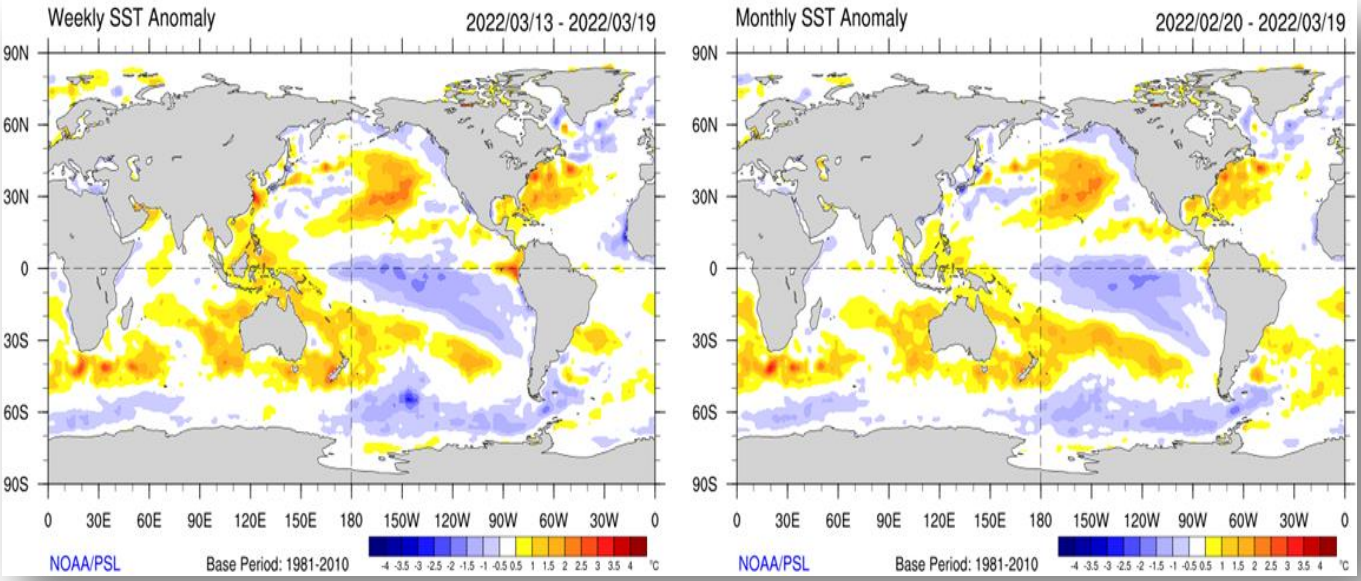


Figure 1: Current weekly SST Anomalies (Left) and Current monthly SST Anomalies (Right)

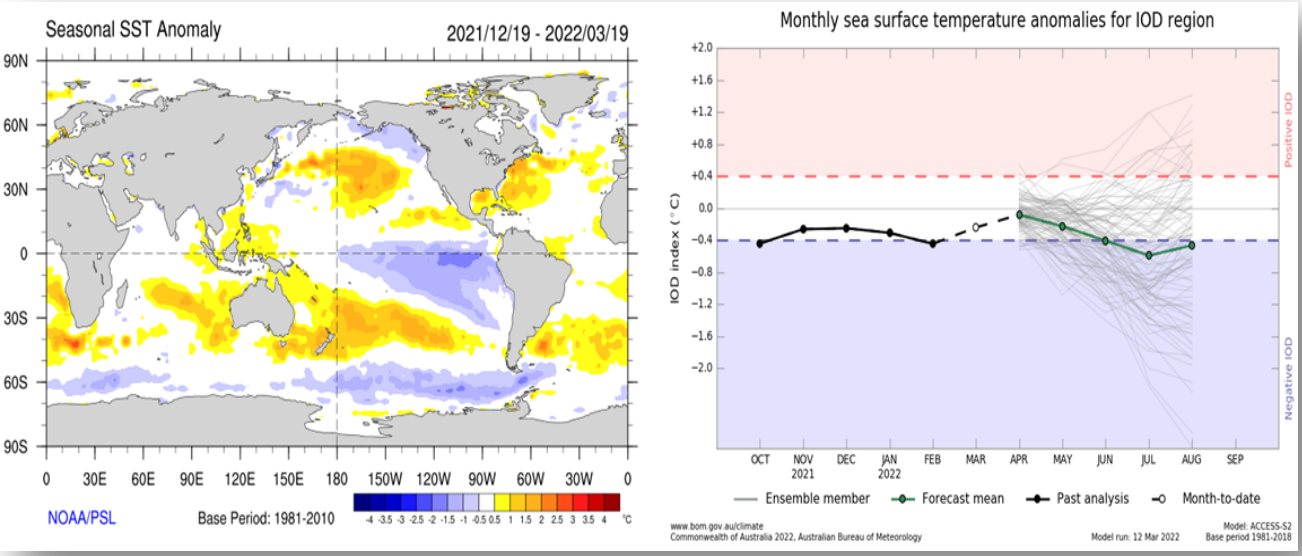
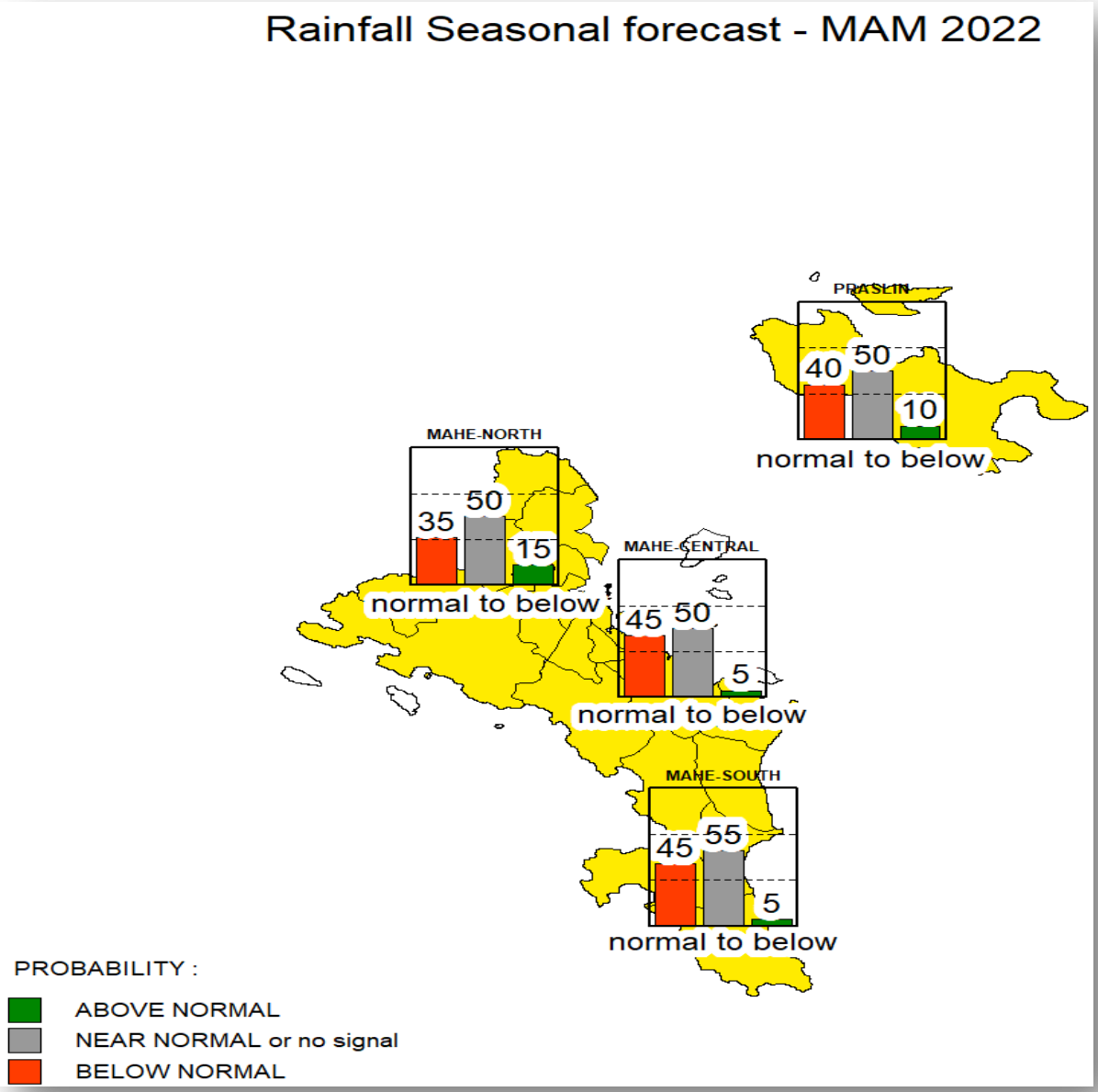


Figure 2: Current Seasonal SST Anomalies (Left) and The Indian Ocean Dipole index (Right)

4. March-April-May Rainfall Seasonal Forecast 2022



Based on the prevailing conditions over the South-west Indian Ocean, the probability-based rainfall outlook for March-April-May season indicates an enhanced likelihood for Near-Normal Rainfall with a strong bias towards Below-Normal over Mahe and Inner Islands.