

Seasonal Climate Outlook





SEYCHELLES METEOROLOGICAL AUTHORITY
August-September-October (ASO) 2023 Seasonal Climate



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1. May-June-July (MJJ) 2023 Performance

Table 1 below shows that the rainfall recorded during the May-June-July (MJJ) 2023 season was strongly Below-Normal over all areas. However, Fairview La Misere station reported Near-normal rainfall.

Table 1: May-June-July (MJJ) 2023 Performance

Stations	MJJ	Long Term Mean	BN	AN	BN?	AN?	Anomalies
Anse-Boileau	135.8	403.7	302.8	504.6	YES	NO	-267.9
Anse-Forbans	95.1	328.3	246.2	410.4	YES	NO	-233.2
Anse-Royale-Waterwork-PUC	167.2	389.6	292.2	486.9	YES	NO	-222.4
Belombre	332.8	549.6	412.2	687.0	YES	NO	-216.8
Cascade-Waterwork-PUC	258.9	473.8	355.3	592.2	YES	NO	-214.9
Fairview-La-Misere	419	548.1	411.1	685.2	NO	NO	-129.1
Hermitage-Waterwork-PUC	204.5	415.0	311.3	518.8	YES	NO	-210.5
La-Gogue-Waterwork-PUC	112.8	295.7	221.7	369.6	YES	NO	-182.9
Le-Niol-Waterwork-PUC	328.4	599.4	449.6	749.3	YES	NO	-271.0
Praslin-Airstrip	141.5	291.9	219.0	364.9	YES	NO	-150.4
Rochon-Waterwork-PUC	236.9	518.3	388.7	647.8	YES	NO	-281.4
Seychelles-International-Airport	156	361.6	271.2	452.0	YES	NO	-205.6
Tea-Factory-Morne-Blanc	283.4	460.1	345.1	575.2	YES	NO	-176.7

2. June-July-August (JJA) 2023 Performance

Table 2 below shows how the June-July-August (JJA) 2023 season is performing so far, two months into the season. All stations considered for seasonal forecasting indicate drier than average conditions with some strong negative anomalies.

Table 2: 2. June-July-August (JJA) 2023 Performance

Stations	JUN TOTAL	JUL TOTAL	JUN+JUL	JJA LONG TERM MEAN	Anomalies
Anse-Boileau	33.8	32.4	66.2	338.4	-272.2
Anse-Forbans	16.2	43	59.2	272.9	-213.7
Anse-Royale-Waterwork-PUC	38.8	66.3	105.1	316.5	-211.4
Belombre	59	203.6	262.6	510.6	-248.0
Cascade-Waterwork-PUC	91.1	121.6	212.7	418.8	-206.1
Fairview-La-Misere	232	89	321	488.6	-167.6
Hermitage-Waterwork-PUC	61.6	75.3	136.9	339.9	-203.0
La-Gogue-Waterwork-PUC	26.8	71.8	98.6	238.9	-140.3
Le-Niol-Waterwork-PUC	73.2	178.1	251.3	555.5	-304.2
Praslin-Airstrip	33.8	33.9	67.7	264.1	-196.4
Rochon-Waterwork-PUC	64.8	114	178.8	462.0	-283.2
Seychelles-International-Airpo	54.8	72.7	127.5	301.7	-174.2
Tea-Factory-Morne-Blanc	67	130	197	400.5	-203.5

3. Oceanic Patterns 2023

El Niño Alert continues, with El Niño development likely during spring. Sea surface temperatures (SSTs) in the tropical Pacific are exceeding El Niño thresholds, with climate models indicating this is likely to continue at least through to early 2024. The past fortnight has seen a decrease in Southern Oscillation Index (SOI) values to moderate negative values (more El Niño-like). Overall, atmospheric indicators suggest the Pacific Ocean and atmosphere are not yet consistently reinforcing each other, as occurs during El Niño events.

Weekly and monthly sea surface temperature anomalies (Figure 1) indicate warming signals over most of the Indian Ocean.

The seasonal sea surface temperature anomalies indicate neutral signals over most of the Indian Ocean basin with warming signals over the western basin. The Indian Ocean Dipole (IOD) is currently neutral. The IOD index for the week ending 13 August 2023 was $+0.32^{\circ}\text{C}$, which is within neutral bounds (between -0.40°C and $+0.40^{\circ}\text{C}$). If, as forecast, positive IOD thresholds are exceeded for the next fortnight, 2023 will be considered a positive IOD year. All climate model outlooks surveyed indicate neutral IOD conditions are likely through to August (Figure 2).

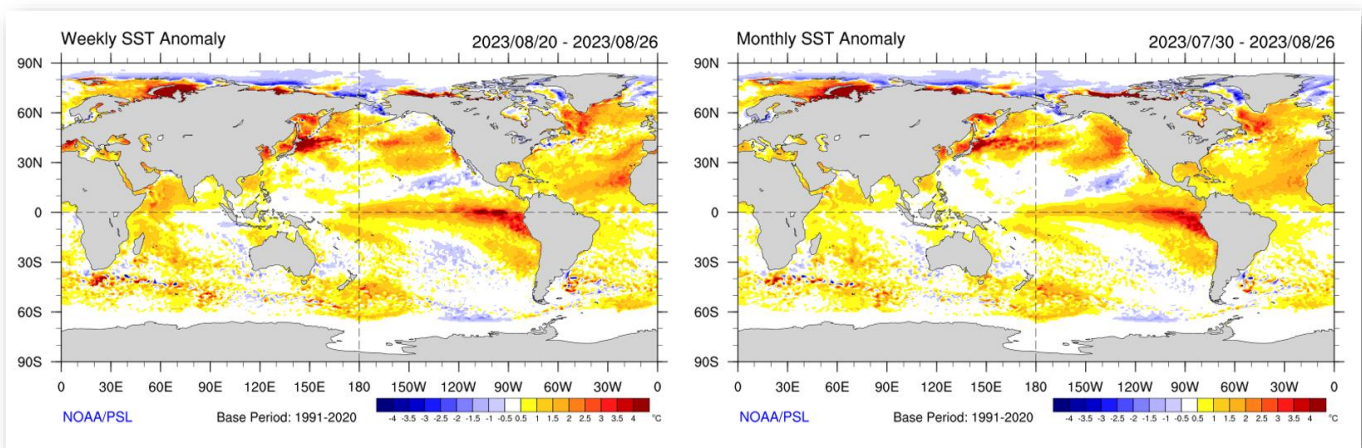


Figure 1: Current weekly SST Anomalies (Left) and Current monthly SST Anomalies (Right)

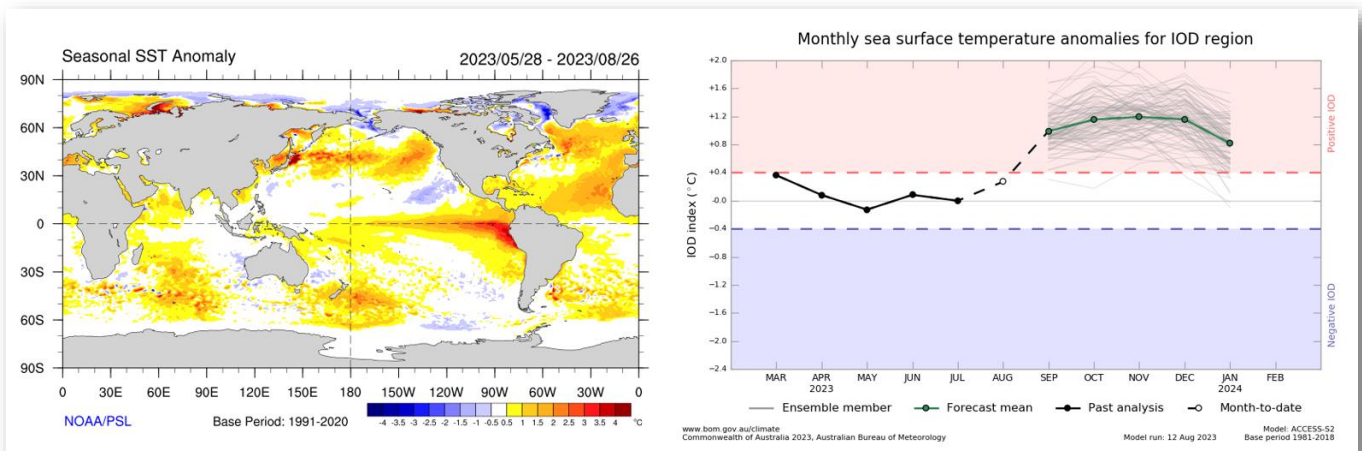
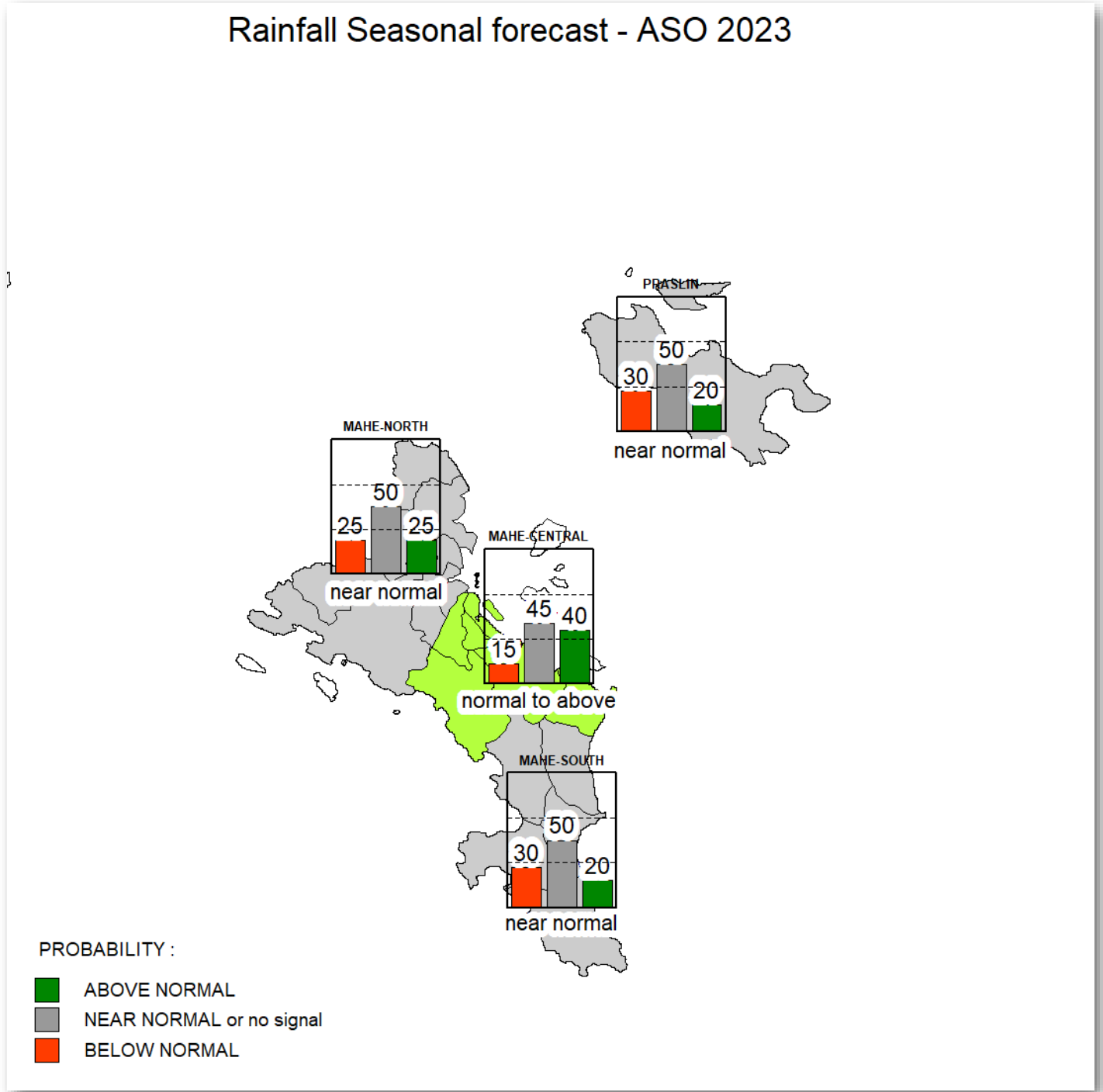


Figure 2: Current Seasonal SST Anomalies (Left) and The Indian Ocean Dipole index (Right)

4. August-September-October Rainfall Seasonal Forecast 2023



Based on the prevailing conditions over the South-west Indian Ocean, the probability-based rainfall outlook for August-September-October season indicates an enhanced likelihood for Near-Normal Rainfall over Mahe and Inner Islands.