Seasonal Climate Outlook

SON 2022 Seasonal Outlook

SEYCHELLES METEOROLOGICAL AUTHORITY

Table of Contents

1. June-July-August (JJA) 2022 Performance

Table 1 below shows that the rainfall recorded during the June-July-August (JJA) 2022 season was mostly Near-Normal over most areas, with three station recording Above-Normal rainfall (Anse Boileau, Cascade, Hermitage).

Table 1: June-July-August (JJA) 2022 Performance

	JJA TOTAL	JJA LONG TERM MEAN	BN	AN	BN?	AN?	ANOMALIES
Anse-Boileau	435.8	338.4	253.8	422.9	NO	YES	97.4
Anse-Forbans	265	272.9	204.7	341.1	NO	NO	-7.9
Anse-Royale-Waterwork-PUC	354.4	316.5	237.4	395.7	NO	NO	37.9
Belombre	582.8	510.6	383.0	638.3	NO	NO	72.2
Cascade-Waterwork-PUC	530.7	418.8	314.1	523.4	NO	YES	111.9
Fairview-La-Misere	593.2	488.6	366.4	610.7	NO	NO	104.6
Hermitage-Waterwork-PUC	511.8	339.9	254.9	424.8	NO	YES	171.9
La-Gogue-Waterwork-PUC	193.7	238.9	179.2	298.7	NO	NO	-45.2
Le-Niol-Waterwork-PUC	677.5	555.5	416.6	694.3	NO	NO	122.0
Praslin-Airstrip	326.1	264.1	198.0	330.1	NO	NO	62.0
Quatre-Bornes-Police-Station	249.5	268.0	201.0	335.0	NO	NO	-18.5
Rochon-Waterwork-PUC	541.3	462.0	346.5	577.5	NO	NO	79.3
Seychelles-International-Airport	343.4	301.7	226.3	377.2	NO	NO	41.7
Tea-Factory-Morne-Blanc	424.2	400.5	300.4	500.6	NO	NO	23.7

2. July-August-September (JAS) 2022 Performance

Table 2 below shows how the July-August-September (JAS) 2022 season is performing so far, two months into the season. All stations are still reporting negative anomalies showing an indication that the June-August-September season will most likely be Below-Normal over most stations..

Table 2:July-August-September (JAS) 2022 Performance

	JUL TOTAL	AUG TOTAL	JUL + AUG TOTAL	JAS LONG TERM MEAN	ANOMALIES
Anse-Boileau	105.8	142.7	248.5	389.7	-141.2
Anse-Forbans	47.6	71.0	118.6	319.5	-200.9
Anse-Royale-Waterwork-PUC	79.5	121.4	200.9	368.1	-167.2
Belombre	171.9	114.6	286.5	538.6	-252.1
Cascade-Waterwork-PUC	138.6	189.9	328.5	484.9	-156.4
Fairview-La-Misere	176.9	183.2	360.1	534.7	-174.6
Hermitage-Waterwork-PUC	113.8	160.5	274.3	376.6	-102.3
La-Gogue-Waterwork-PUC	25.8	90.1	115.9	295.6	-179.7
Le-Niol-Waterwork-PUC	185.1	157.9	343.0	580.0	-237.0
Praslin-Airstrip	65.7	190.5	256.2	344.4	-88.2
Quatre-Bornes-Police-Station	59.5	76.5	136.0	307.1	-171.1
Rochon-Waterwork-PUC	127.9	163.2	291.1	495.5	-204.4
Seychelles-International-Airpor	77.2	134.0	211.2	352.2	-141.0
Tea-Factory-Morne-Blanc	107.6	136.5	244.1	447.9	-203.8

3. Oceanic Patterns 2022

La Nina condition is already well established in the equatorial Pacific, with below normal sea surface temperatures over the Nino 3.4 region. Model forecast indicates that the La Nina condition is expected to persist until early 2023 when it is expected to return back to neutral condition. La Nina condition in the Pacific Ocean usually reduces rainfall over the Seychelles.

Over the Indian Ocean region, the Indian Ocean Dipole (IOD) has also reached negative IOD threshold with sea surface temperature anomaly below -0.4ºC. Negative IOD event usually suppresses rainfall over the Seychelles Islands
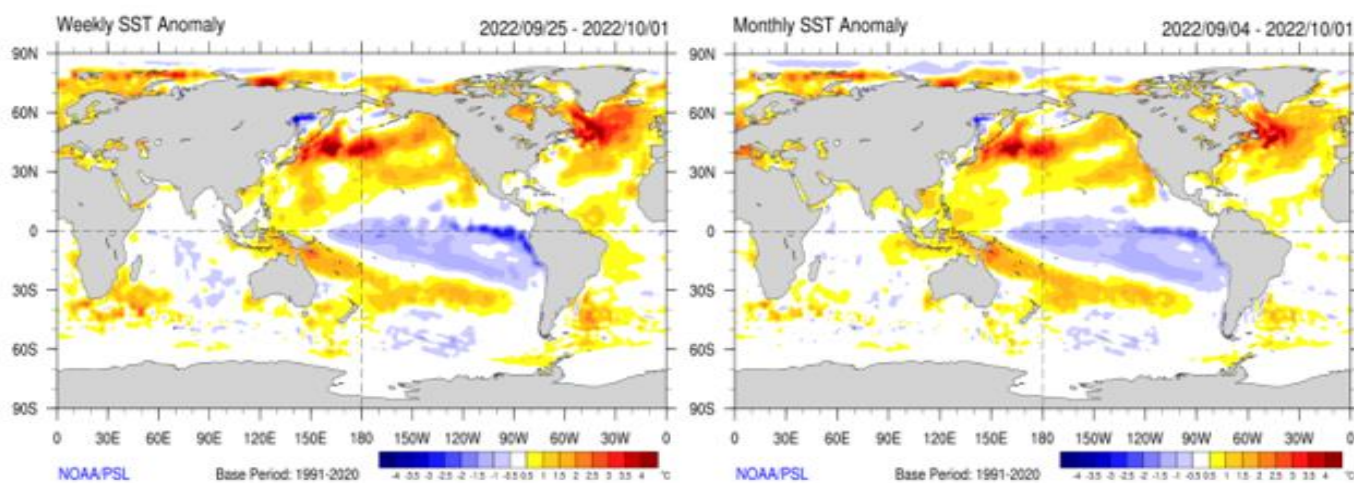

Figure 1: Current weekly SST Anomalies (Left) and Current monthly SST Anomalies (Right)
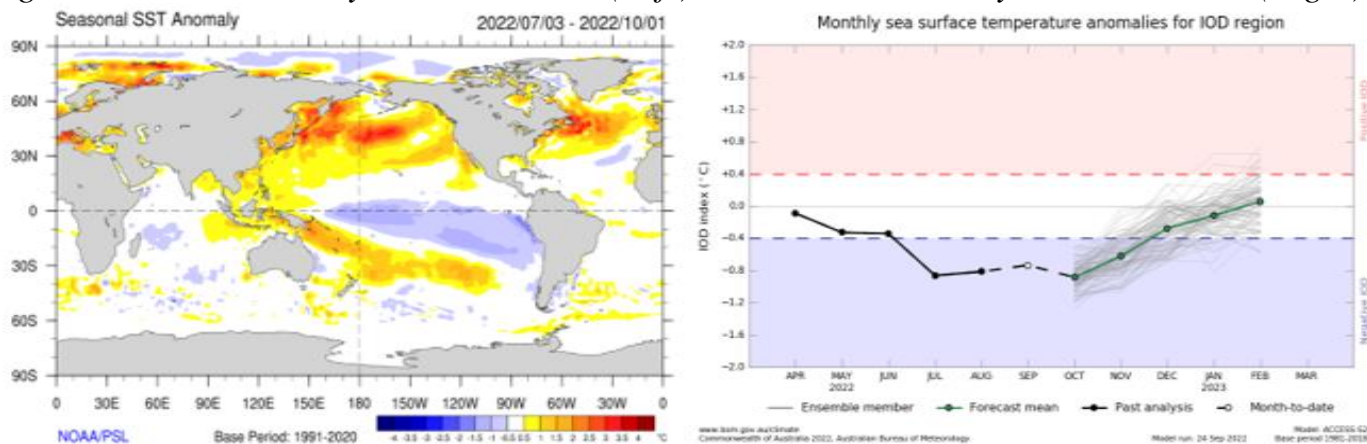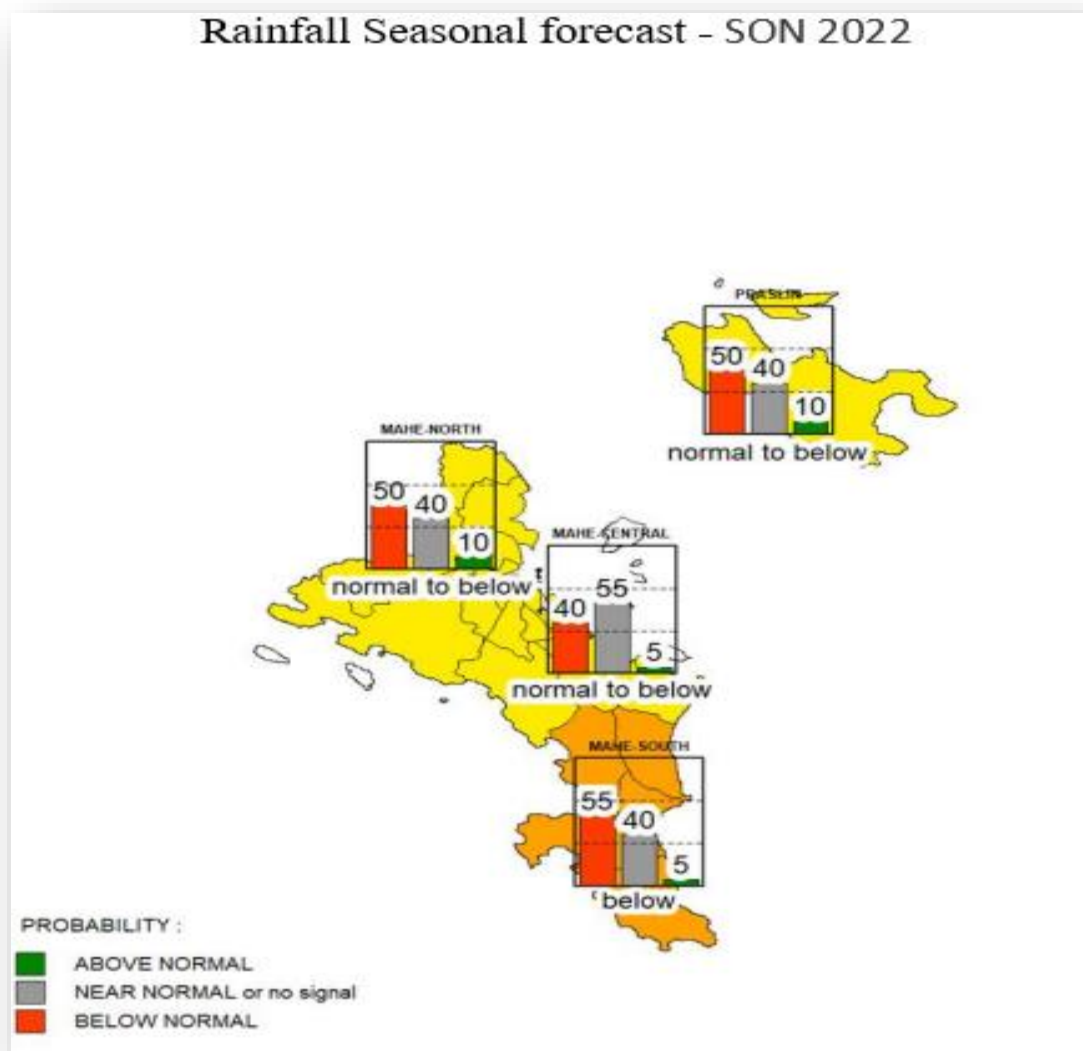

Figure 2: Current Seasonal SST Anomalies (Left) and The Indian Ocean Dipole index (Right)

4. September-October-November Rainfall Seasonal Forecast 2022

Rainfall Seasonal forecast – SON 2022

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