

September-October-November 2021
Seasonal Climate Outlook





SEYCHELLES METEOROLOGICAL AUTHORITY

September-October-November 2021 Seasonal Climate



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1. June-July-August 2021 Performance

Table 1 below shows that the rainfall recorded during the June-July-August (JJA) season was Below Normal over all stations with significant negative anomalies.

Table 1: June-July-August Rainfall Performance

	JJA TOTAL	JJA LONG TERM MEAN	BN	AN	BN?	AN?	ANOMALIES
Anse-Boileau	317.8	331.4	248.5	414.2	NO	NO	-13.6
Anse-Forbans	126	424.6	318.4	530.7	YES	NO	-298.6
Anse-Royale-Police-Station	67.2	484.5	363.4	605.6	YES	NO	-417.3
Anse-Royale-Waterwork-PUC	147.4	276.0	207.0	345.0	YES	NO	-128.6
Belombre	440.1	511.1	383.3	638.9	NO	NO	-71.0
Cascade-Waterwork-PUC	245.6	559.1	419.3	698.9	YES	NO	-313.5
Fairview-La-Misere	273.4	486.1	364.6	607.7	YES	NO	-212.7
Hermitage-Waterwork-PUC	179.9	335.9	251.9	419.9	YES	NO	-156.0
La-Gogue-Waterwork-PUC	86.8	248.7	186.5	310.9	YES	NO	-161.9
Le-Niol-Waterwork-PUC	412.4	634.7	476.0	793.4	YES	NO	-222.3
Praslin-Airstrip	211.1	259.1	194.3	323.8	NO	NO	-48.0
Quatre-Bornes-Police-Station	147.5	351.0	263.3	438.8	YES	NO	-203.5
Rochon-Waterwork-PUC	272	604.6	453.4	755.7	YES	NO	-332.6
Seychelles-International-Airport	121.2	300.5	225.4	375.7	YES	NO	-179.3
Tea-Factory-Morne-Blanc	319.6	492.3	369.2	615.3	YES	NO	-172.7

2. July-August-September 2021 Performance

Table 2 below shows how the July-August-September season is performing so far, two months into the season. All stations considered for seasonal forecasting recorded Below-Normal rainfall with some significant negative anomalies. It is therefore very likely that the entire July-August-September season will also be Below Normal

Table 2: 2. July-August-September rainfall performance

	JUL TOTAL	AUG TOTAL	JUL + AUG TOTAL	JAS LONG TERM MEAN	ANOMALIES
Anse-Boileau	89.9	87.5	177.4	383.5	-206.1
Anse-Forbans	51.5	29.4	80.9	324.1	-243.2
Anse-Royale-Police-Station	20.8	23.6	44.4	426.8	-382.4
Anse-Royale-Waterwork-PUC	53.3	48.6	101.9	486.4	-384.5
Belombre	266.3	58.3	324.6	537.9	-213.3
Cascade-Waterwork-PUC	115.1	48.3	163.4	557.9	-394.5
Fairview-La-Misere	128.4	52.2	180.6	535.8	-355.2
Hermitage-Waterwork-PUC	85.7	35.5	121.2	377.2	-256.0
La-Gogue-Waterwork-PUC	32.5	24.5	57.0	303.8	-246.8
Le-Niol-Waterwork-PUC	226.2	69.5	295.7	633.1	-337.4
Praslin-Airstrip	138.2	27.8	166.0	343.5	-177.5
Quatre-Bornes-Police-Station	42.2	32.3	74.5	351.8	-277.3
Rochon-Waterwork-PUC	142.9	41.8	184.7	601.9	-417.2
Seychelles-International-Airport	53.0	23.8	76.8	353.6	-276.8
Tea-Factory-Morne-Blanc	164.3	60.3	224.6	532.4	-307.8

3. Oceanic Patterns 2021

The El Niño–Southern Oscillation (ENSO) is currently neutral. However, most international climate models show that sea surface temperatures over the tropical Pacific will continue to cool over the coming months resulting in the possibility of a weak La Niña event re-emerging later in 2021.

Meanwhile, over the Indian Ocean basin, the negative Indian Ocean Dipole (IOD) event has weakened. However, the latest value of the Indian Ocean Dipole (IOD) index is still fairly close to the negative IOD threshold of -0.4. Most of the international model surveyed shows that it is likely that the IOD index will return to negative IOD levels in October. A negative IOD event results in a reduction in rainfall over Seychelles.

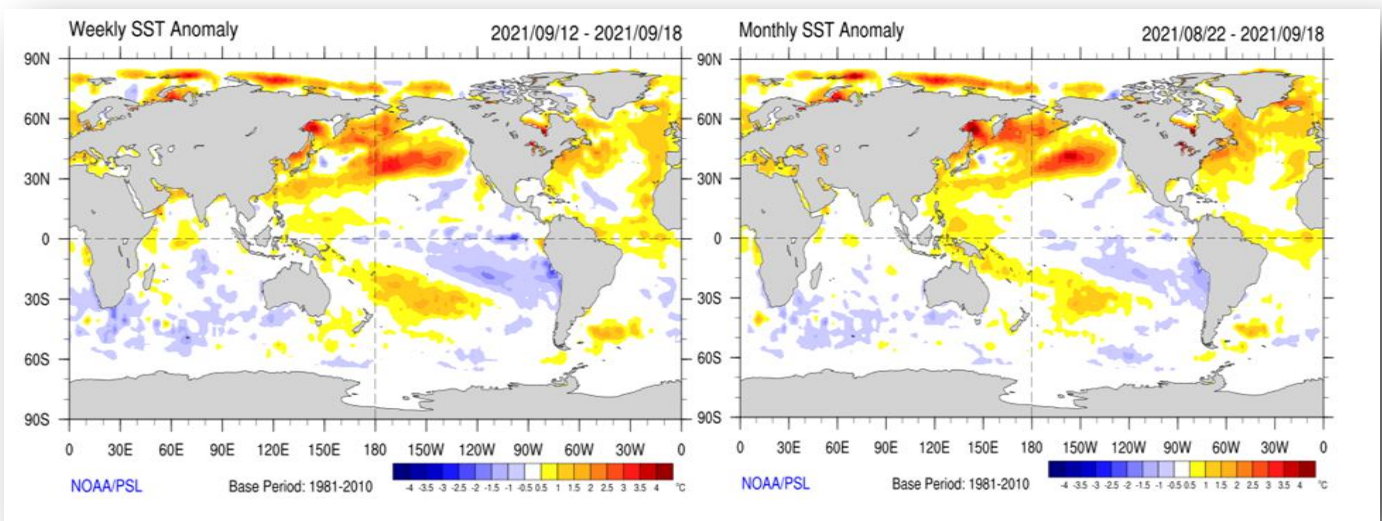


Figure 1: Current weekly SST Anomalies (Left) and Current monthly SST Anomalies (Right)

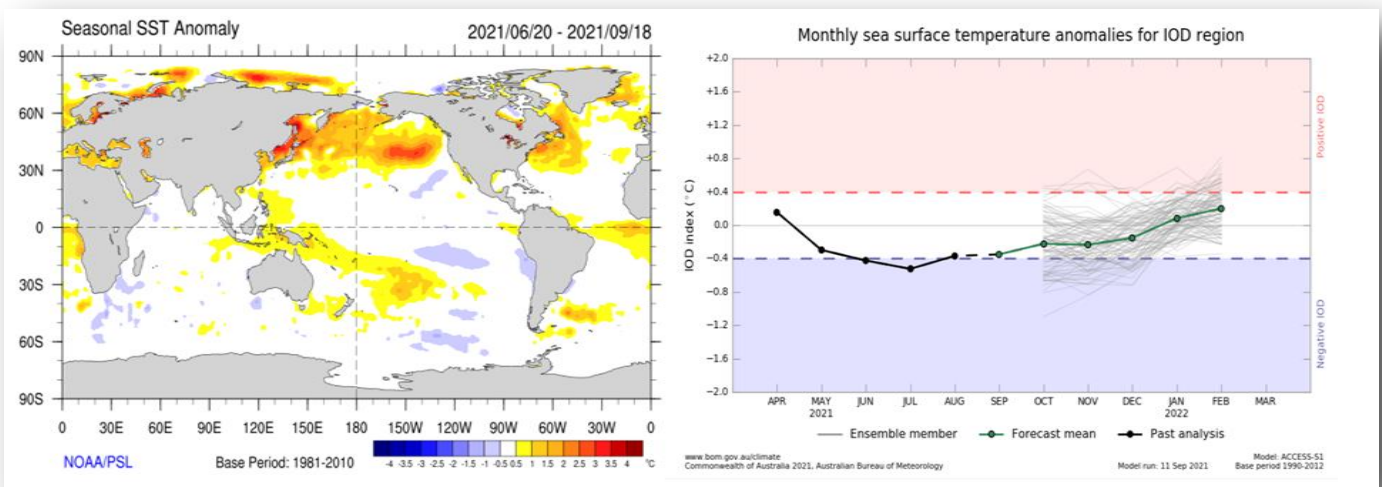


Figure 2: Current Seasonal SST Anomalies (Left) and The Indian Ocean Dipole index (Right)

4. September-October-November Rainfall Seasonal Forecast 2021

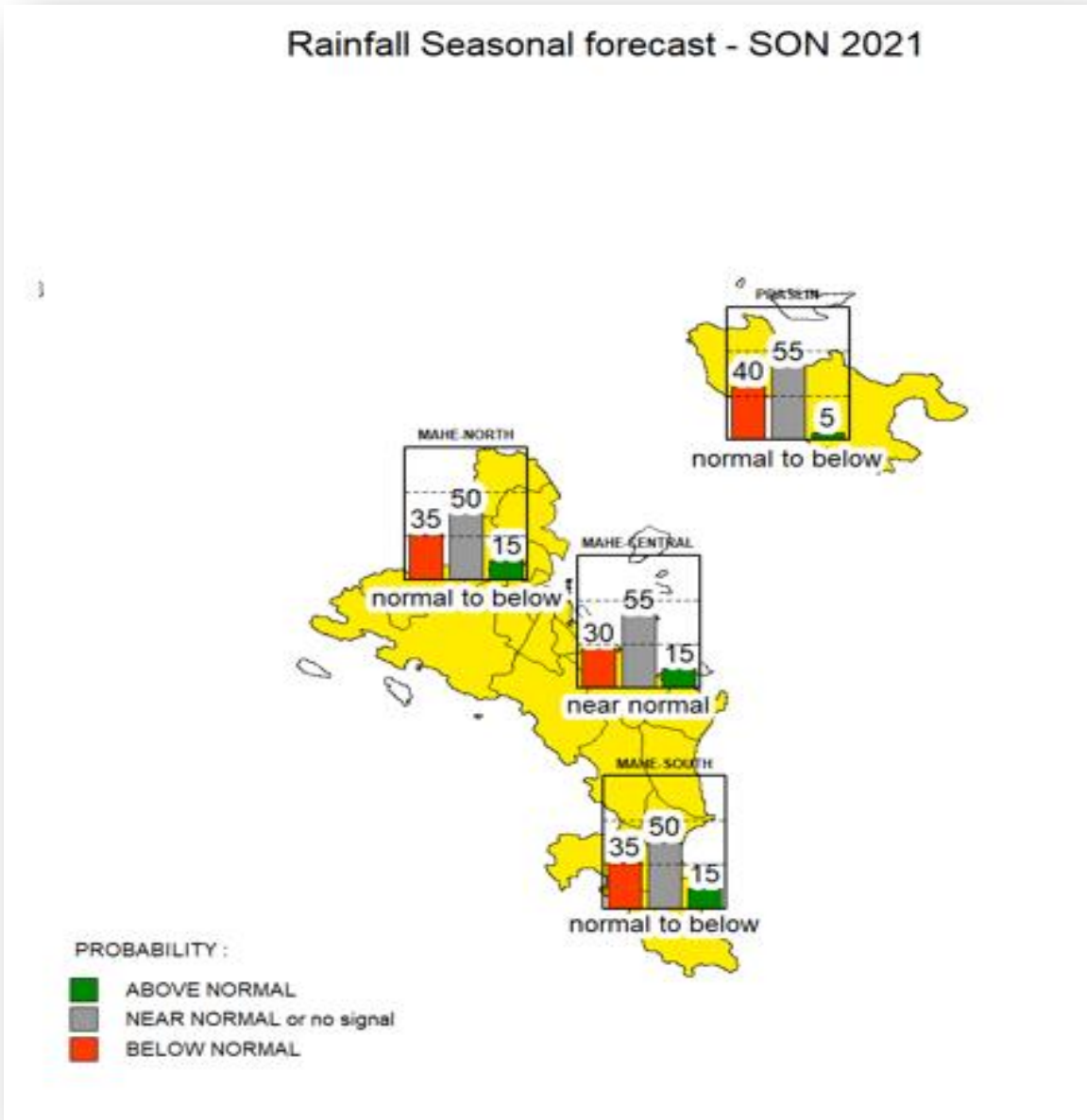


Figure 3: September-October-November Rainfall Seasonal Forecast 2021

Based on the prevailing conditions over the South-west Indian Ocean and the possibility of a La Niña event developing, the probability-based rainfall outlook for September-October-November indicates an enhanced likelihood for Near-Normal Rainfall with a strong bias towards Below-Normal over Mahe and Inner Islands.