

# Climate and Weather Bulletin



July 2022 Weather Review





**SEYCHELLES METEOROLOGICAL AUTHORITY**  
**August 2022 Climate and Weather Bulletin**



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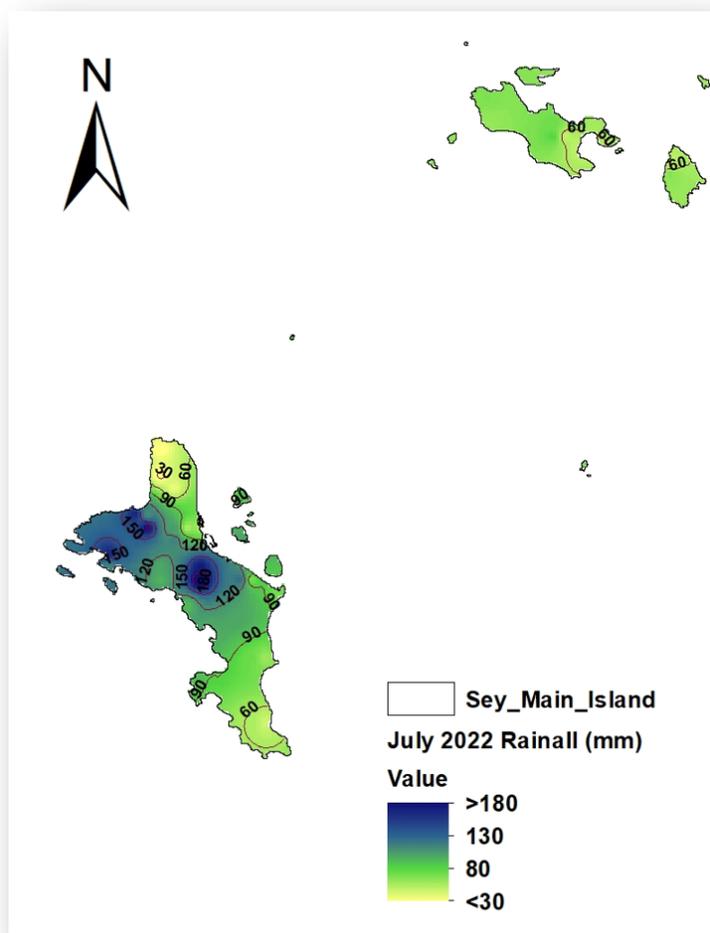
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## 1. Introduction

This bulletin reviews climate conditions over Mahe, Praslin, and La Digue and highlights the status of the climate systems during the month of July 2022. The basin remained under the influence of moderate to strong south-easterlies throughout the month. With the influence of fairly strong ridging from the south, the Near-Equatorial trough axis was tilted to the north where most convective activities were concentrated. These atmospheric conditions favored a reduction in rainfall amount compared to the previous month.

## 2. Rainfall Performance in July 2022

### 2.1 Spatial Rainfall Distribution for July 2022



The spatial rainfall distribution for July (Figure 1) shows that most of the rainfall was recorded around the Central to Northwestern part of Mahe, with rainfall amount above 150 mm. An overall maximum of 207.8 mm was recorded at the La misere station. Meanwhile relatively lower amounts of less than 60 mm were recorded over the Southern and Northern part of Mahe, on Praslin and on La Digue. However, the overall lowest rainfall amount was recorded on Mahe, at the La Gogue station with only 25.8 mm of rainfall recorded throughout the month of July.

Figure 1: July 2022 Spatial Rainfall Distribution



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When comparing the reported rainfall to the long term mean of each station (Figure 2), it is clear that most stations received rainfall amount slightly below the long-term mean. 27 out of the 37 stations recorded rainfall below their respective long-term mean during the month of July.

Looking at it in terms of percentages (Figure 3), again the Central and Northern part of Mahe performed much better. Overall the station at Port Launay recorded a maximum of 144.3% of its long-term mean. On the other hand areas around the Northern and Southern tip of Mahe, Southeastern Praslin and La Digue received rainfall amount far less than usual during this period of the year. The worst performance was recorded at the La Gogue station on Mahe, with only 38.1% of its long-term mean recorded during the month of July.

Table 1 summarizes July’s rainfall performance. Only 2 stations of the 37 reported Above-Normal rainfall, 24 stations reported Near-Normal, and 11 stations reported Below-Normal rainfall for month. Therefore in general the rainfall performance for the month of July was Near-Normal to Below-Normal

### 2.2 July Rainfall Totals Compared to Long-Term Mean

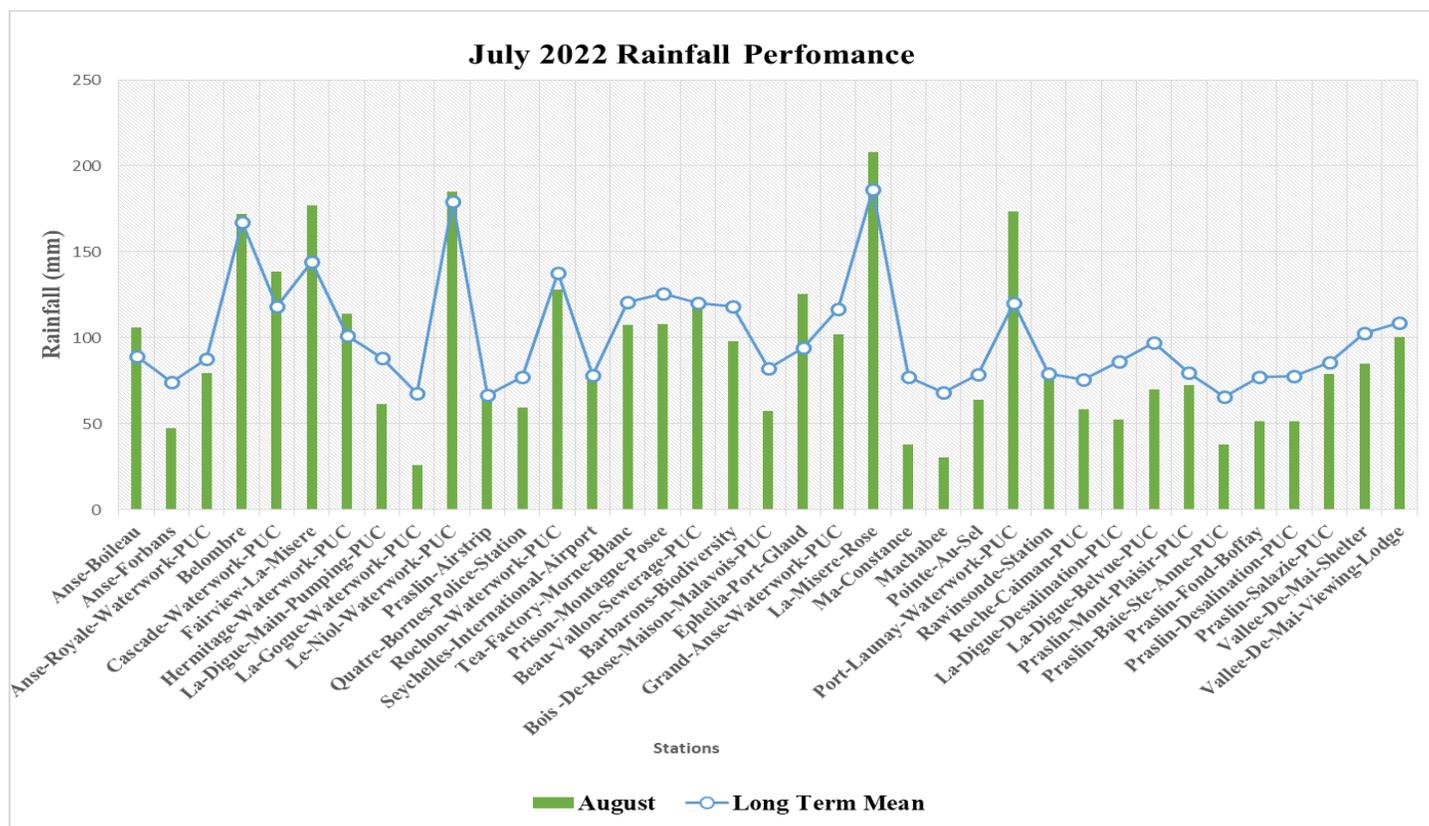


Figure 2: July 2022 rainfall totals compared to the long-term mean

### 2.3 Percentage of Mean Rainfall for July 2022

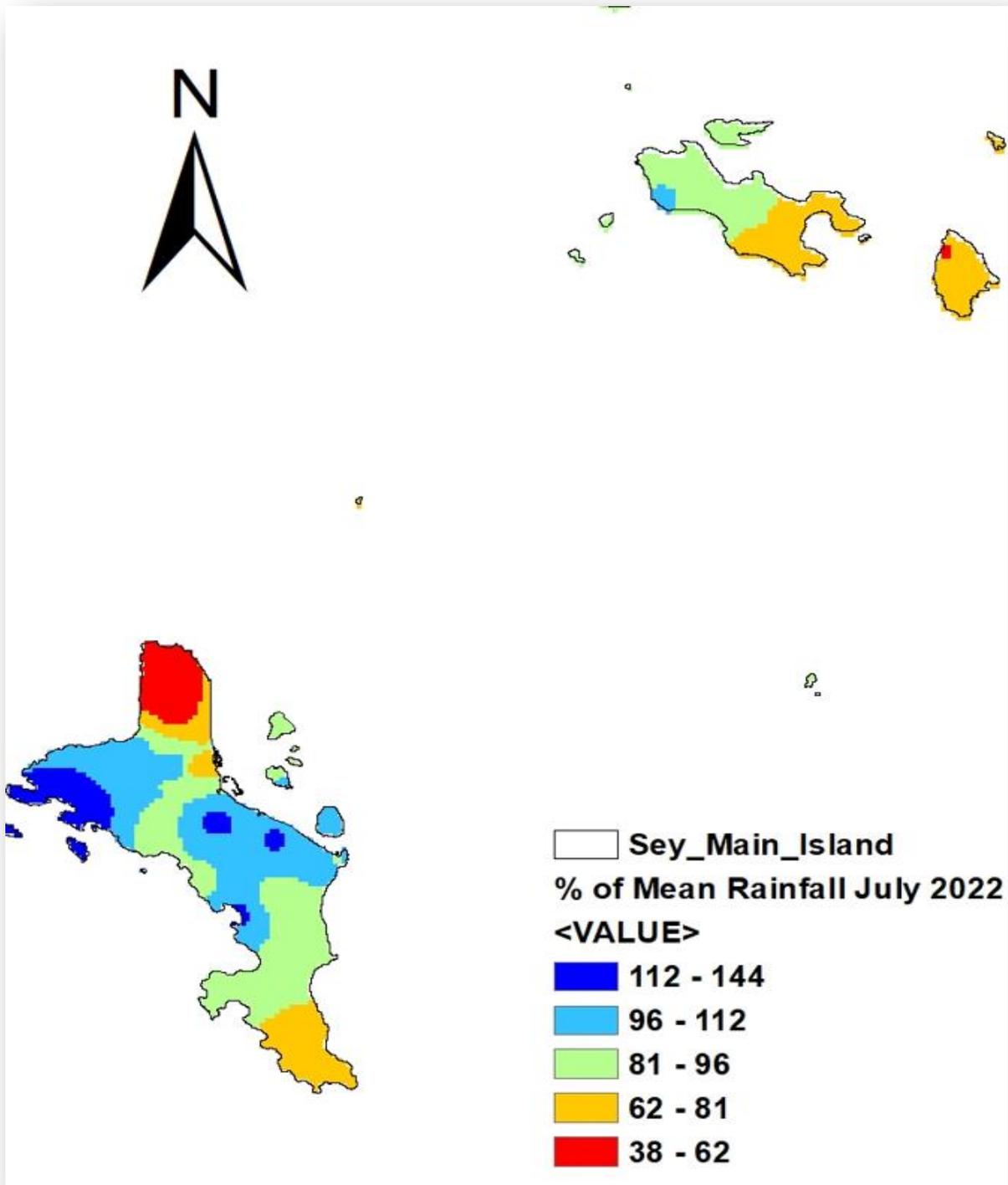


Figure 3: Percentage of mean Rainfall for July 2022



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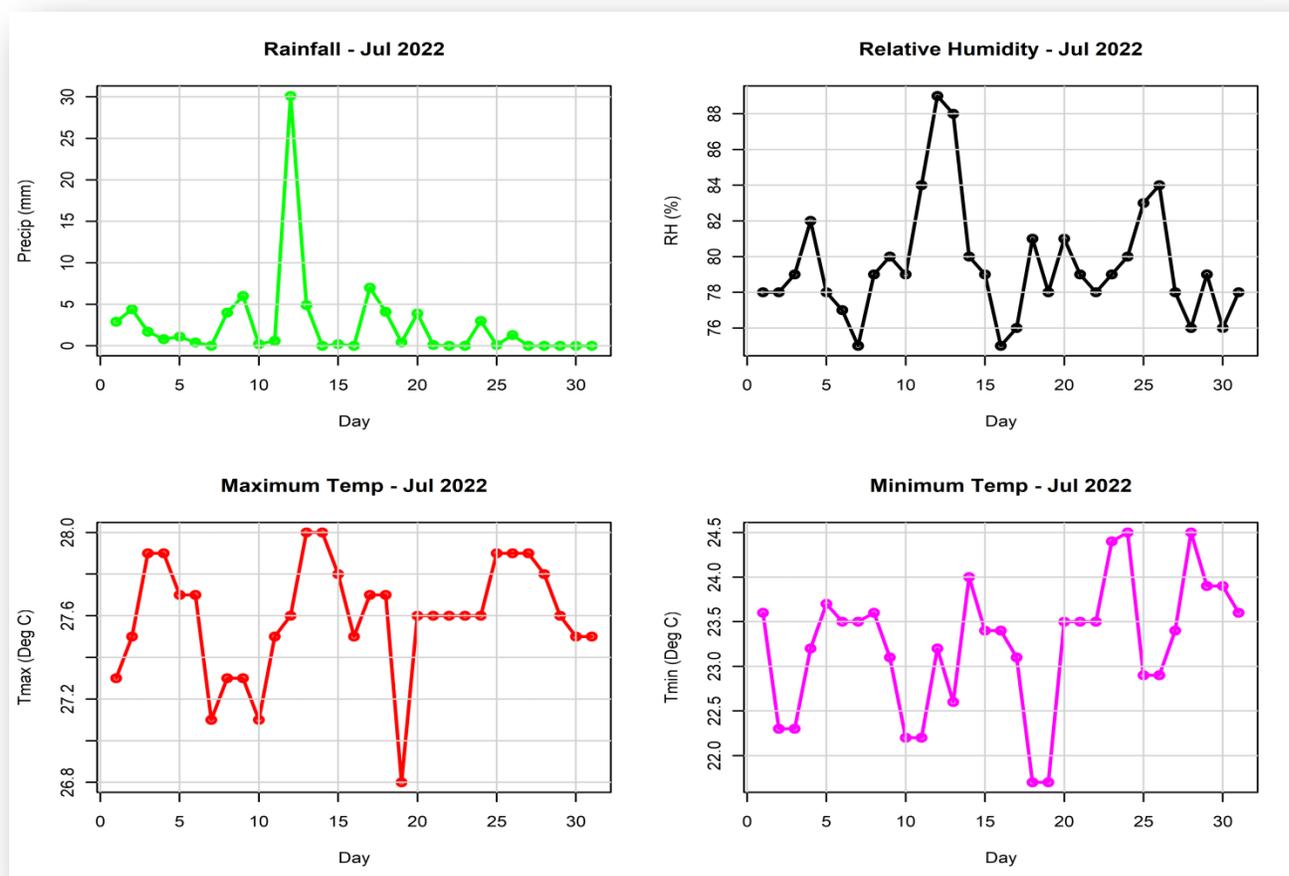


*Table 1: Rainfall performance in July*

Stations	July	Long Term Mean	BN	AN	BN?	AN?	Anomalies
Anse-Boileau	105.8	89.2	66.9	111.5	NO	NO	16.6
Anse-Forbans	47.6	74.3	55.7	92.9	YES	NO	-26.7
Anse-Royale-Waterwork-PUC	79.5	87.6	65.7	109.5	NO	NO	-8.1
Belombre	171.9	167.3	125.5	209.1	NO	NO	4.6
Cascade-Waterwork-PUC	138.6	118	88.5	147.5	NO	NO	20.6
Fairview-La-Misere	176.9	144.2	108.2	180.3	NO	NO	32.7
Hermitage-Waterwork-PUC	113.8	101.4	76.1	126.8	NO	NO	12.4
La-Digue-Main-Pumping-PUC	61.7	88.3	66.2	110.4	YES	NO	-26.6
La-Gogue-Waterwork-PUC	25.8	67.8	50.9	84.8	YES	NO	-42.0
Le-Niol-Waterwork-PUC	185.1	179.3	134.5	224.1	NO	NO	5.8
Praslin-Airstrip	65.7	66.6	50.0	83.3	NO	NO	-0.9
Quatre-Bornes-Police-Station	59.5	77.2	57.9	96.5	NO	NO	-17.7
Rochon-Waterwork-PUC	127.9	137.5	103.1	171.9	NO	NO	-9.6
Seychelles-International-Airport	77.2	78.3	58.7	97.9	NO	NO	-1.1
Tea-Factory-Morne-Blanc	107.6	120.9	90.7	151.1	NO	NO	-13.3
Prison-Montagne-Posee	107.8	125.6	94.2	157.0	NO	NO	-17.8
Beau-Vallon-Sewerage-PUC	122.3	120.2	90.2	150.3	NO	NO	2.1
Barbarons-Biodiversity	98.1	118.4	88.8	148.0	NO	NO	-20.3
Bois -De-Rose-Maison-Malavois-P	57.6	82.3	61.7	102.9	YES	NO	-24.7
Ephelia-Port-Glaud	125.4	94.4	70.8	118.0	NO	YES	31.0
Grand-Anse-Waterwork-PUC	101.9	116.8	87.6	146.0	NO	NO	-14.9
La-Misere-Rose	207.8	186.2	139.7	232.8	NO	NO	21.6
Ma-Constance	38.1	77.1	57.8	96.4	YES	NO	-39.0
Machabee	30.6	68.4	51.3	85.5	YES	NO	-37.8
Pointe-Au-Sel	64.1	78.5	58.9	98.1	NO	NO	-14.4
Port-Launay-Waterwork-PUC	173.3	120.1	90.1	150.1	NO	YES	53.2
Rawinsonde-Station	75.8	79.1	59.3	98.9	NO	NO	-3.3
Roche-Caiman-PUC	58.5	75.8	56.9	94.8	NO	NO	-17.3
La-Digue-Desalination-PUC	52.4	86.1	64.6	107.6	YES	NO	-33.7
La-Digue-Belvue-PUC	70.1	97.2	72.9	121.5	YES	NO	-27.1
Praslin-Mont-Plaisir-PUC	72.6	79.5	59.6	99.4	NO	NO	-6.9
Praslin-Baie-Ste-Anne-PUC	38.2	65.9	49.4	82.4	YES	NO	-27.7
Praslin-Fond-Boffay	51.7	77.2	57.9	96.5	YES	NO	-25.5
Praslin-Desalination-PUC	51.5	77.6	58.2	97.0	YES	NO	-26.1
Praslin-Salazie-PUC	78.8	85.6	64.2	107.0	NO	NO	-6.8
Vallee-De-Mai-Shelter	85.0	102.7	77.0	128.4	NO	NO	-17.7
Vallee-De-Mai-Viewing-Lodge	100.5	108.7	81.5	135.9	NO	NO	-8.2

### 3. Daily Weather for July 2022 at the Seychelles International Airport

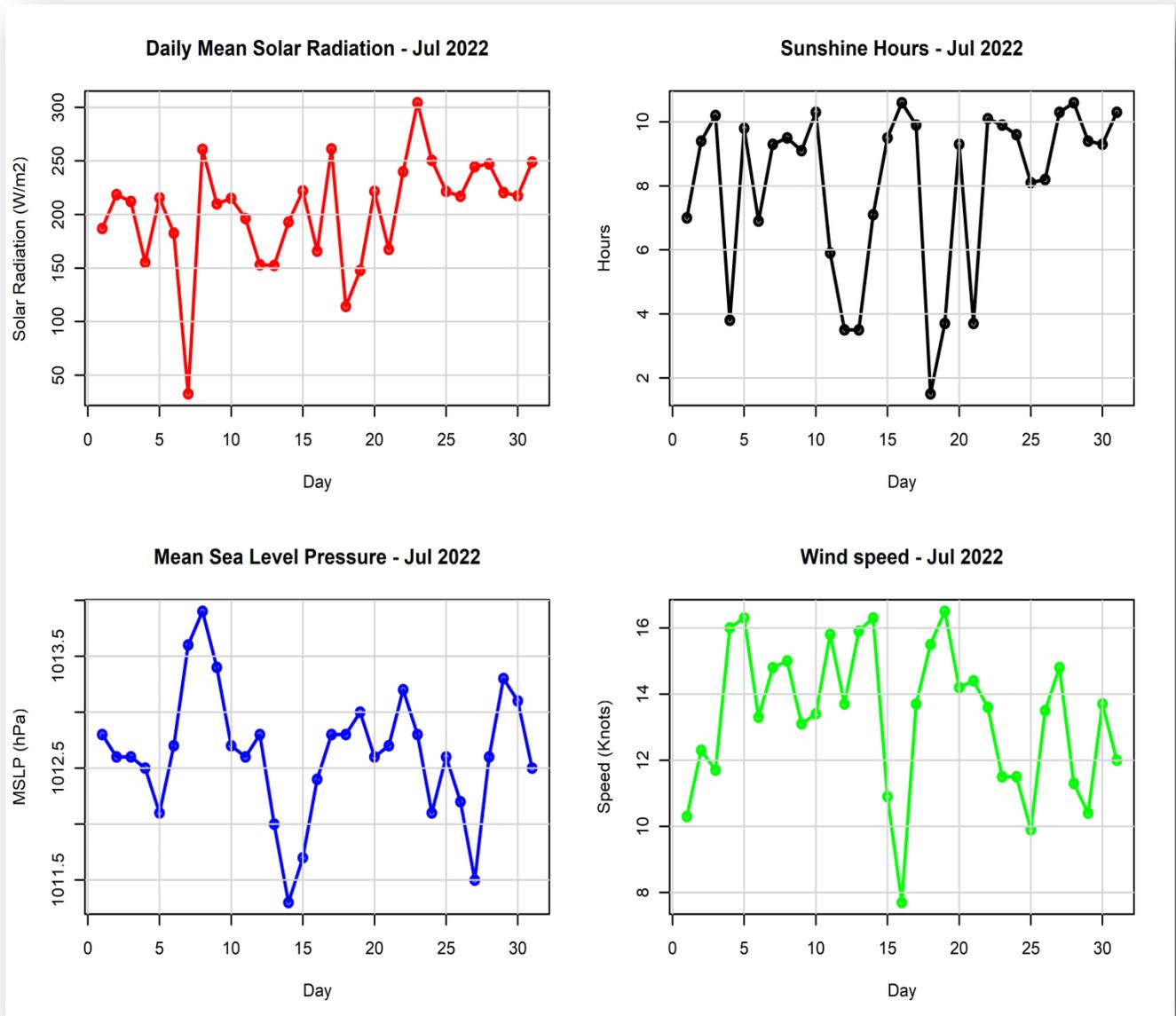
#### 3.1 Daily rainfall, relative humidity, maximum and minimum temperatures in July 2022



*Figure 4: Daily rainfall, relative humidity, maximum and minimum temperatures in July 2022*

The highest recorded daily rainfall in July at the Airport Station was 30.1 mm on the 12<sup>th</sup>, with 7 dry days during the month. The daily mean Relative Humidity varied mostly between 76 - 88%, however, the maximum was recorded on the 12<sup>th</sup> with a value of 89% (Figure 4). Daily maximum temperature generally remained below 28.0°C for the entire month with a highest temperature of 28°C reported on the 13<sup>th</sup> and 14<sup>th</sup>. The minimum temperature meanwhile remained below 25°C. However, the lowest of 21.7°C was reported on the 18<sup>th</sup> and 19<sup>th</sup>.

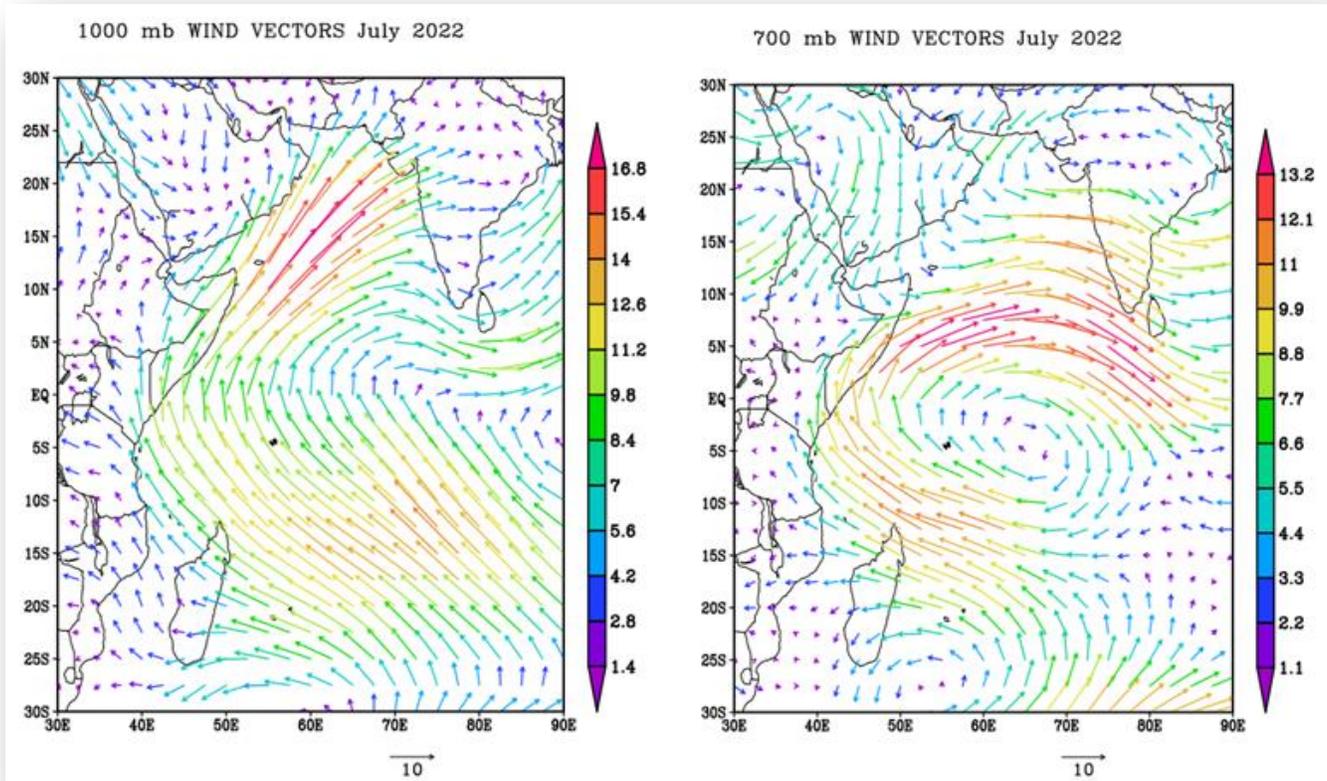
### 3.2 Daily solar Radiation, Sunshine hours, Mean Sea Level Pressure, and Surface wind speeds in July 2022



*Figure 5: Daily solar Radiation, Sunshine hours, Mean Sea Level Pressure, and Surface wind speeds in July 2022*

On average, the mean solar radiation during July remained mostly above 150 W/m<sup>2</sup>, and the average sunshine hours for the month was 8 hrs. The southeasterly winds blew with an average speed of 13 Knots (24Km/hr), while the mean sea level pressure ranged between ~ 1011hpa – 1014hpa (Figure 5).

#### 4. Wind Patterns in July 2022



*Figure 6: Surface wind flow (left) and wind flow at 700mb (right)*

The analysis (Figure 6) indicates that the average winds near the surface (1000mb) were moderate South-easterlies with the speed ranging between 8.4m/s to 11.2m/s, and the Near Equatorial trough axis remained tilted to the north. At the 700mb level, a medium level low was quite apparent with its center slightly to the east of the main island Mahe. These conditions contributed to the reduction in rainfall during the month of July compared to the previous month.