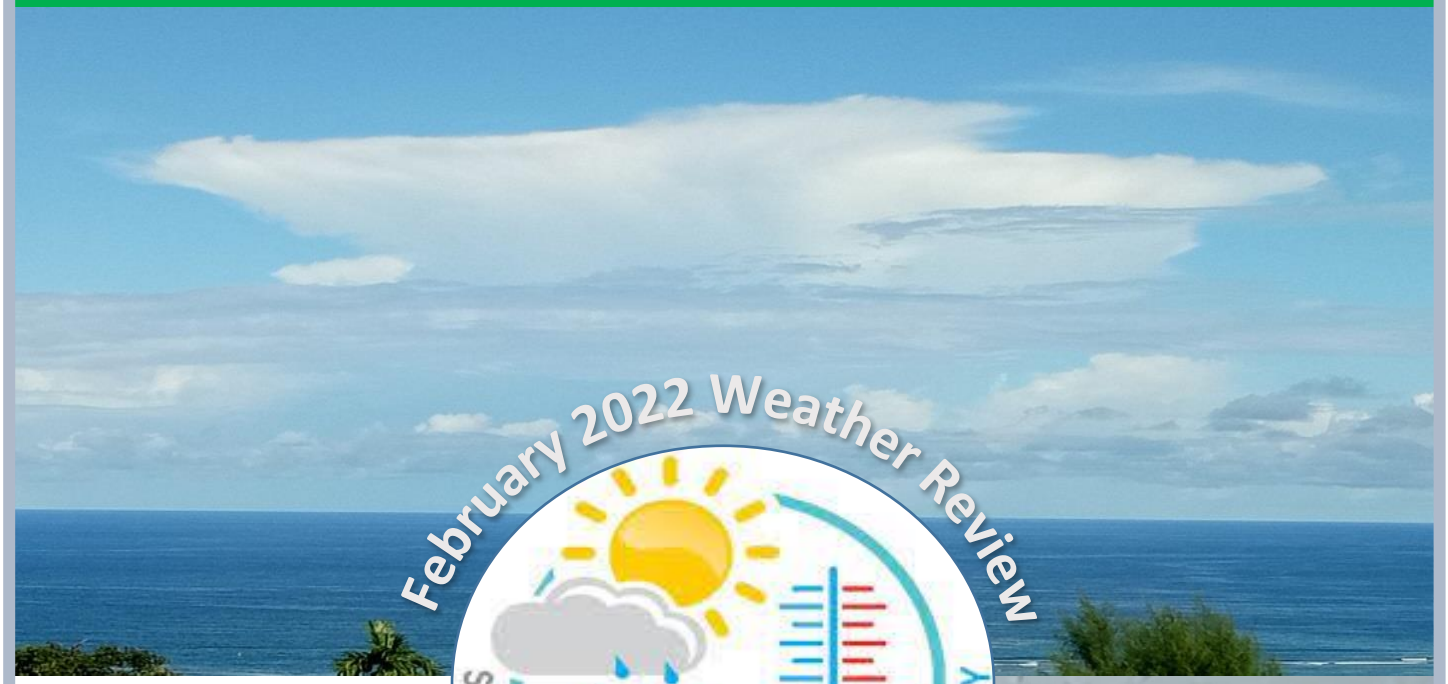
Climate and Weather Bulletin



February 2022 Weather Review

SEYCHELLES METEOROLOGICAL AUTHORITY





Table of Contents

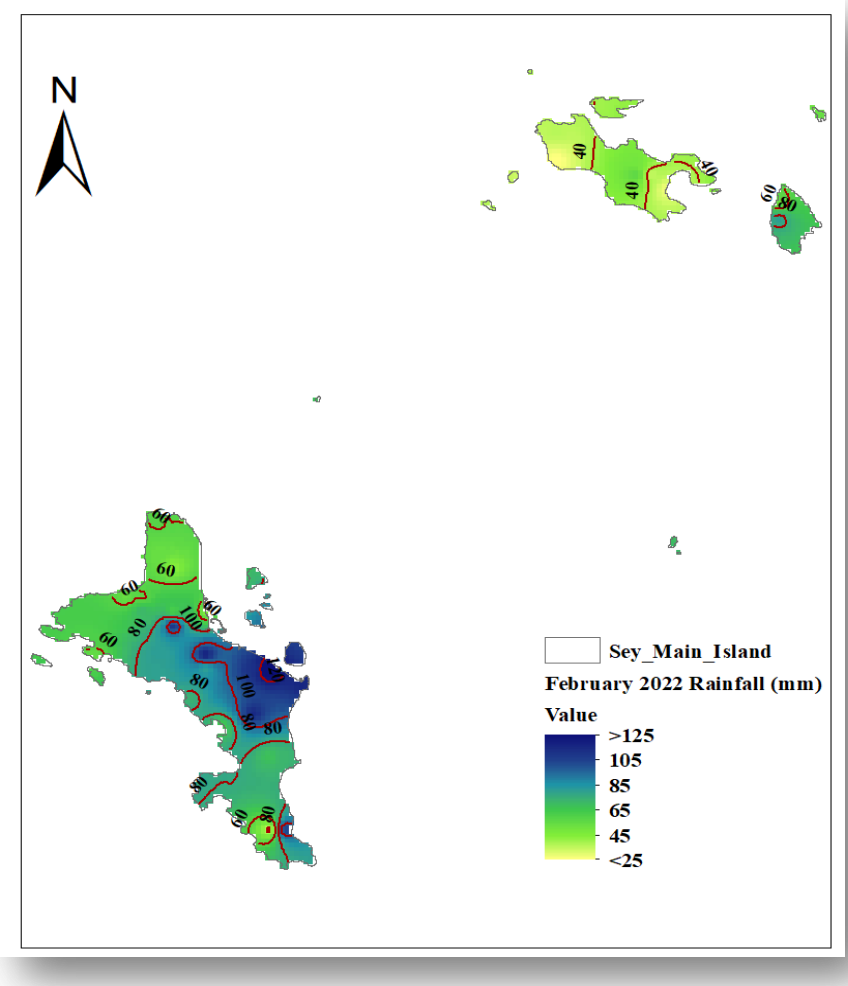
1. Introduction 1
2. Rainfall Performance in February 2022 1
2.1 Spatial Rainfall Distribution for February 2022 1
2.2 February Rainfall Totals Compared to Long-Term Mean 2
2.3 Percentage of Mean Rainfall for February 2022 3
3. Daily Weather for February 2022 at the Seychelles International Airport 5
3.1 Daily rainfall, relative humidity, maximum and minimum temperatures in February 2022 5
4. Wind Patterns in February 2022 7

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 February 2022. The basin remained under the influence of Monsoon trough pattern which was strongly interrupted by the presence of tropical cyclones/lows along its southern edge. Therefore, convective activities were focused on the systems and more significant near BATSIRAI.

2. Rainfall Performance in February 2022

2.1 Spatial Rainfall Distribution for February 2022



The spatial rainfall distribution for February (Figure 1) indicates that extreme Southern and Northen Mahe, Praslin well as la Digue were drier with rainfall amounts below 85mm compared to Central Mahe which recorded rainfall of between 100-130mm in March. The highest rainfall amounting to 132.3mm was recorded at the Seychelles International Airport station. On Praslin Island, the maximum was 64mm recorded at Vallee De Mai Viewing Lodge station and, on La Digue, Belvue PUC station recorded a maximum of 84.6mm. An overall minimum of 24.6mm was reported at Praslin Airstrip Station.

Figure 1: February 2022 Spatial Rainfall Distribution

Rainfall recorded at the 37 stations compared to their respective long-term mean (Figure 2) was significantly below the long-term mean rainfall. The basin remained under the influence of Monsoon trough pattern which was strongly interrupted by the presence of tropical cyclones/lows along its southern edge. Therefore, convective activity was focused on the systems and more significant near BATSIRAI. Most stations reported less than 50% rainfall than their long-term means with the exception Montagne Pose Prison station which reported 98% of the its long term Mean (Figure 3).

Table 1 summarizes February's rainfall performance. 36 stations of the 37 reported Below-Normal rainfall with only Montagne Pose Prison which recorded Near-Average rainfall for February with significantly high negative anomalies. Generally, the monthly rainfall performance was Below-Normal.

2.2 February Rainfall Totals Compared to Long-Term Mean

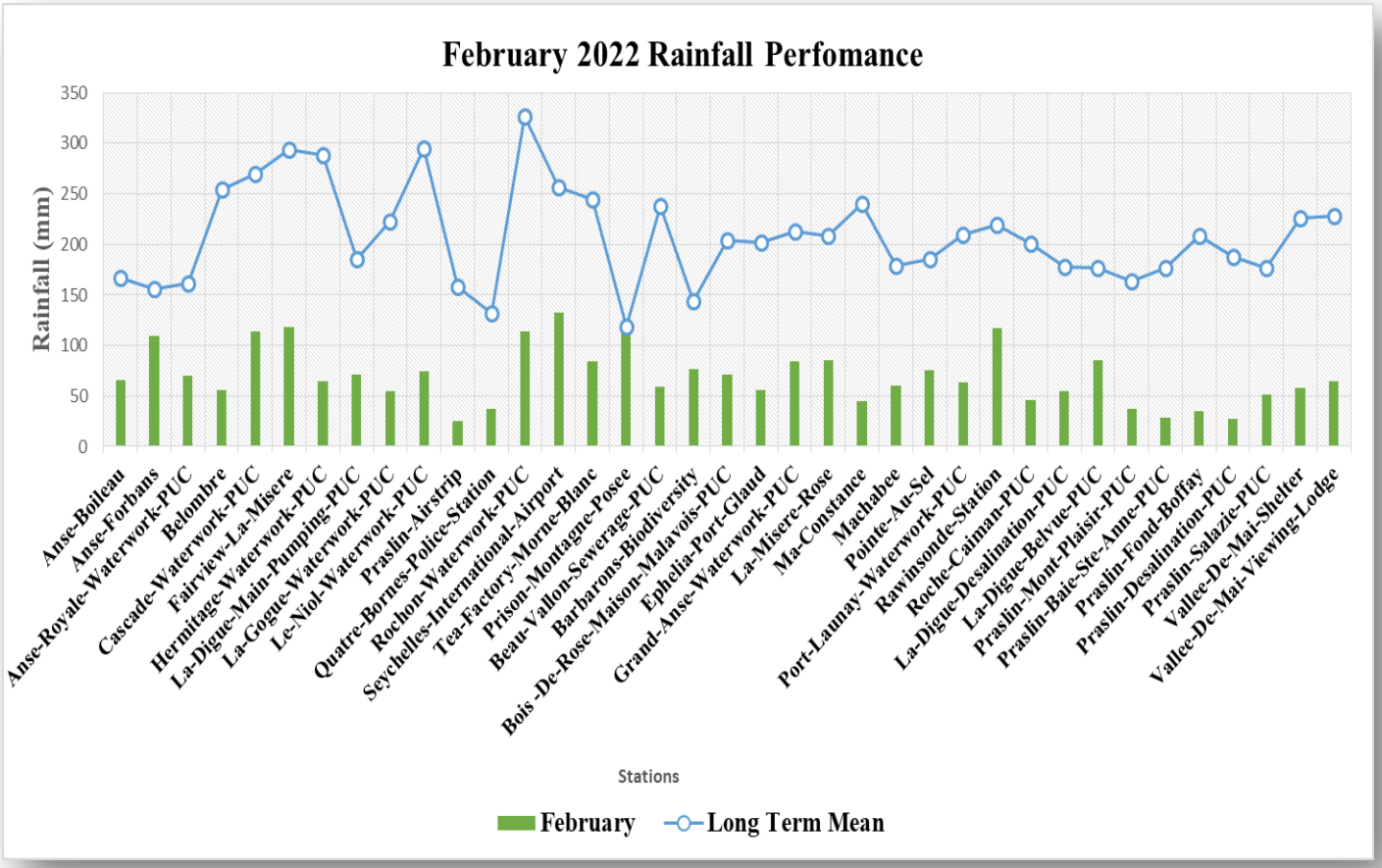


Figure 2: Februry 2022 rainfall totals compared to the long-term mean

2.3 Percentage of Mean Rainfall for February 2022

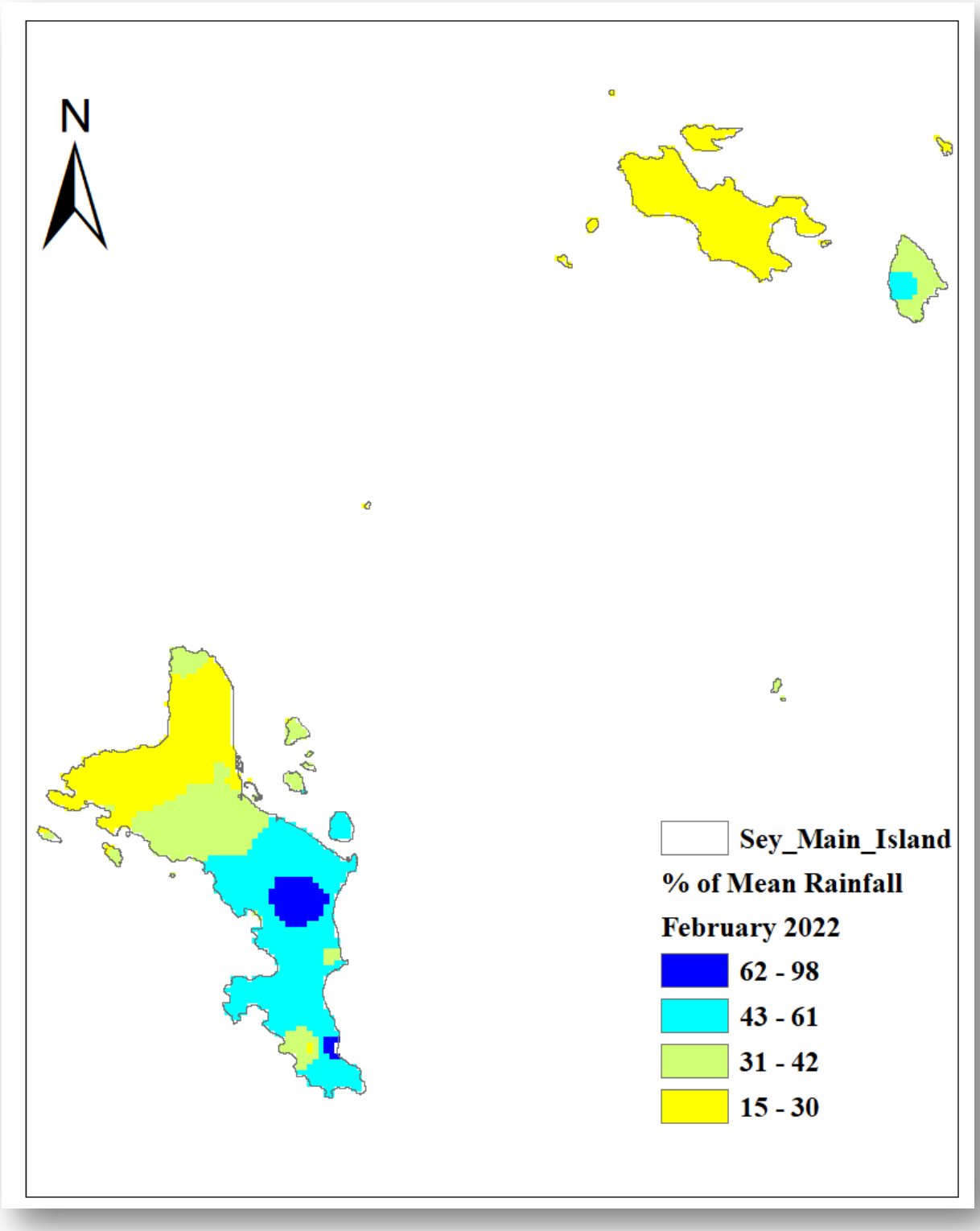


Figure 3: Percentage of mean Rainfall for February 2022

Table 1: Rainfall performance in February

Stations	February	Long Term Mean	BN	AN	BN?	AN?	Anomalies
Anse-Boileau	65.5	166.2	124.65	207.75	YES	NO	-100.7
Anse-Forbans	109.7	156	117	195	YES	NO	-46.3
Anse-Royale-Waterwork-PUC	70	161.3	120.975	201.625	YES	NO	-91.3
Belombre	55	254	190.5	317.5	YES	NO	-199.0
Cascade-Waterwork-PUC	114	269.5	202.125	336.875	YES	NO	-155.5
Fairview-La-Misere	118.3	294.1	220.575	367.625	YES	NO	-175.8
Hermitage-Waterwork-PUC	64.2	288.3	216.225	360.375	YES	NO	-224.1
La-Digue-Main-Pumping-PUC	70.7	185.4	139.05	231.75	YES	NO	-114.7
La-Gogue-Waterwork-PUC	54.9	222.7	167.025	278.375	YES	NO	-167.8
Le-Niol-Waterwork-PUC	74.5	294.7	221.025	368.375	YES	NO	-220.2
Praslin-Airstrip	24.6	158.2	118.65	197.75	YES	NO	-133.6
Quatre-Bornes-Police-Station	36.8	131.7	98.775	164.625	YES	NO	-94.9
Rochon-Waterwork-PUC	113.2	326.6	244.95	408.25	YES	NO	-213.4
Seychelles-International-Airport	132.3	256.1	192.075	320.125	YES	NO	-123.8
Tea-Factory-Morne-Blanc	84.5	244.9	183.675	306.125	YES	NO	-160.4
Prison-Montagne-Posee	115.8	118.3	88.725	147.875	NO	NO	-2.5
Beau-Vallon-Sewerage-PUC	58.8	237.8	178.35	297.25	YES	NO	-179.0
Barbarons-Biodiversity	75.9	144.1	108.075	180.125	YES	NO	-68.2
Bois -De-Rose-Maison-Malavois-PUC	70.6	204.4	153.3	255.5	YES	NO	-133.8
Ephelia-Port-Glaud	55.6	201.4	151.05	251.75	YES	NO	-145.8
Grand-Anse-Waterwork-PUC	83.9	212.8	159.6	266	YES	NO	-128.9
La-Misere-Rose	84.8	208.5	156.375	260.625	YES	NO	-123.7
Ma-Constance	44.1	240.5	180.375	300.625	YES	NO	-196.4
Machabee	60.3	178.2	133.65	222.75	YES	NO	-117.9
Pointe-Au-Sel	74.9	185.1	138.825	231.375	YES	NO	-110.2
Port-Launay-Waterwork-PUC	63.4	209.8	157.35	262.25	YES	NO	-146.4
Rawinsonde-Station	117.1	219.5	164.625	274.375	YES	NO	-102.4
Roche-Caiman-PUC	46.2	200.2	150.15	250.25	YES	NO	-154.0
La-Digue-Desalination-PUC	54.8	177.3	132.975	221.625	YES	NO	-122.5
La-Digue-Belvue-PUC	84.6	177	132.75	221.25	YES	NO	-92.4
Praslin-Mont-Plaisir-PUC	36.8	163.4	122.55	204.25	YES	NO	-126.6
Praslin-Baie-Ste-Anne-PUC	28.5	176.1	132.075	220.125	YES	NO	-147.6
Praslin-Fond-Boffay	35.1	208.7	156.525	260.875	YES	NO	-173.6
Praslin-Desalination-PUC	27	187.7	140.775	234.625	YES	NO	-160.7
Praslin-Salazie-PUC	50.7	176.6	132.45	220.75	YES	NO	-125.9
Vallee-De-Mai-Shelter	58	226.1	169.575	282.625	YES	NO	-168.1

3. Daily Weather for February 2022 at the Seychelles International Airport

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

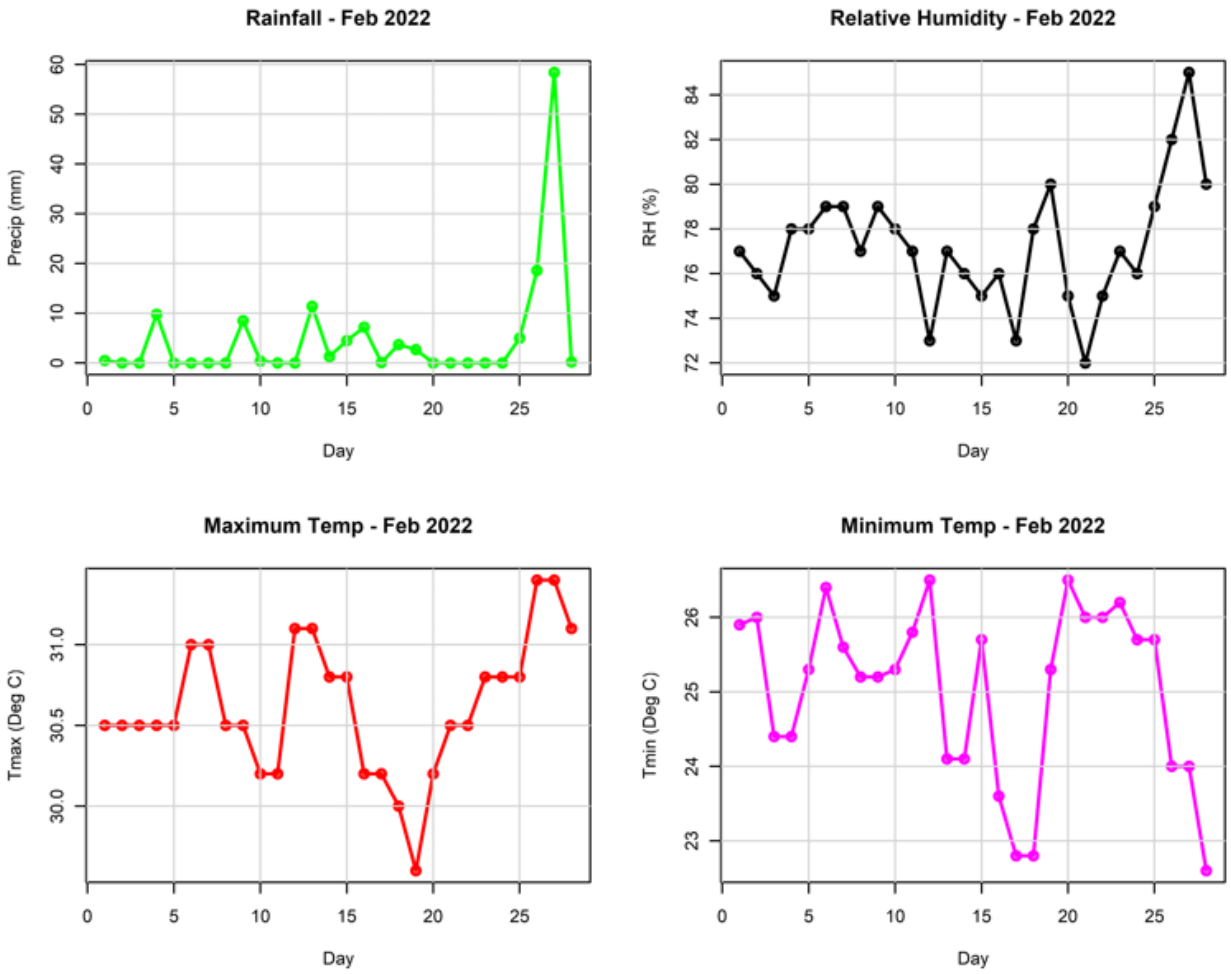


Figure 4: Daily rainfall, relative humidity, maximum and minimum temperatures in February 2022

The highest recorded daily rainfall in February at the Airport Station was 58.4mm recorded on the 27th, while there were 11 dry days during the month. The highest Relative humidity of 85% was also recorded on the 27th February (Figure 4). Daily maximum temperature generally remained above 30.0˚C with the highest temperature of 31.4˚C reported on the 26th and 27th. The minimum temperature was mostly above 24˚C. However, the lowest minimum temperature was 22.6˚C recorded on the 28th.

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

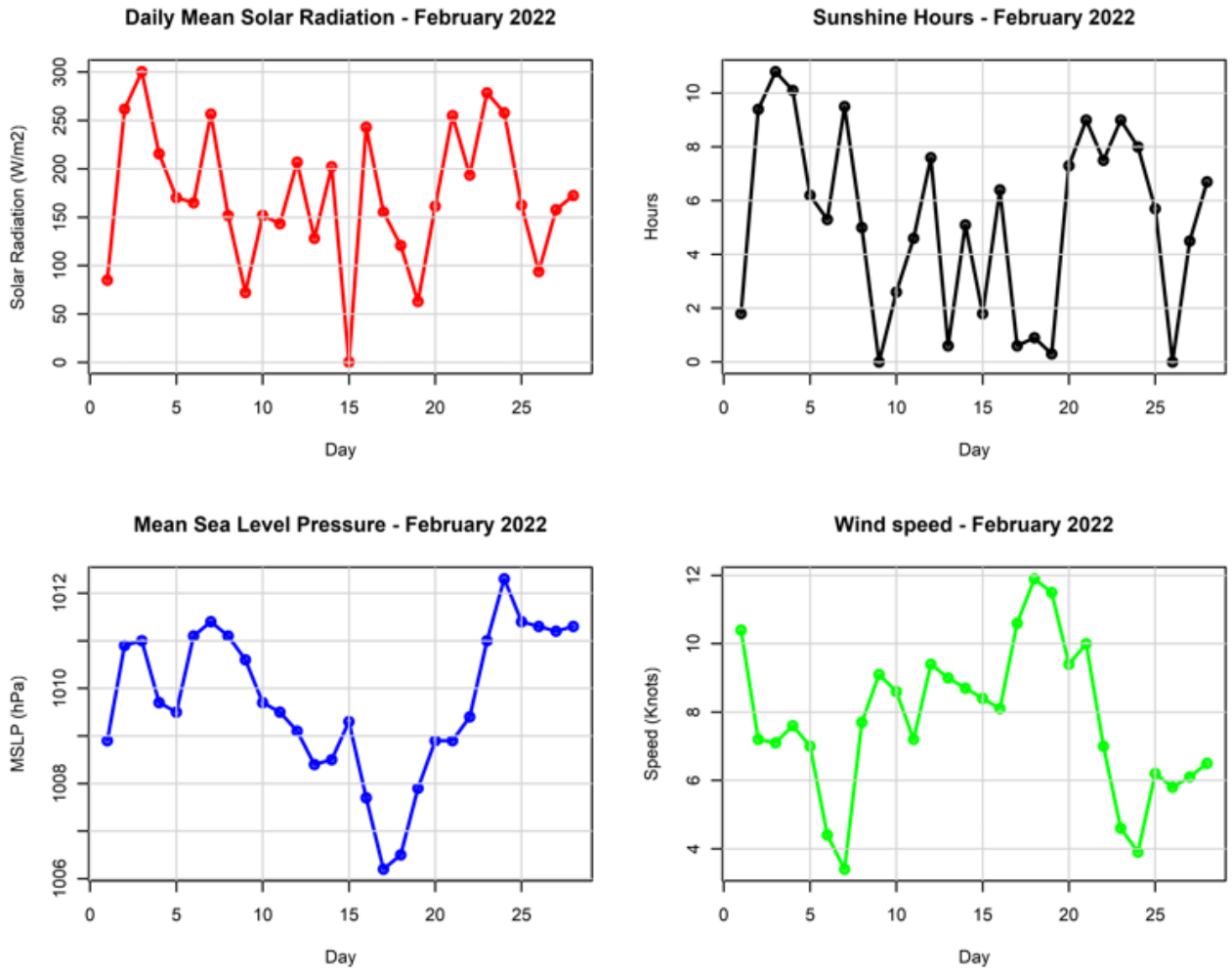


Figure 5: Daily solar Radiation, Sunshine hours, Mean Sea Level Pressure, and Surface wind speeds in February 2022

On average, the mean solar radiation during the month of February remained mostly above 172.4 W/m2 which signifies a significant increase in solar radiation, a similar pattern was also observed in terms of sunshine hours recorded. The mean sea level pressure ranged between 1006 – 1012 hpa with the lowest of 1006.2 coinciding with the passage of moderate tropical storm Emnati on the 17th February. Meanwhile the winds remained at a light to moderate speed with a maximum of 11.9 KT recorded on the 18th February (Figure 5).

4. Wind Patterns in February 2022

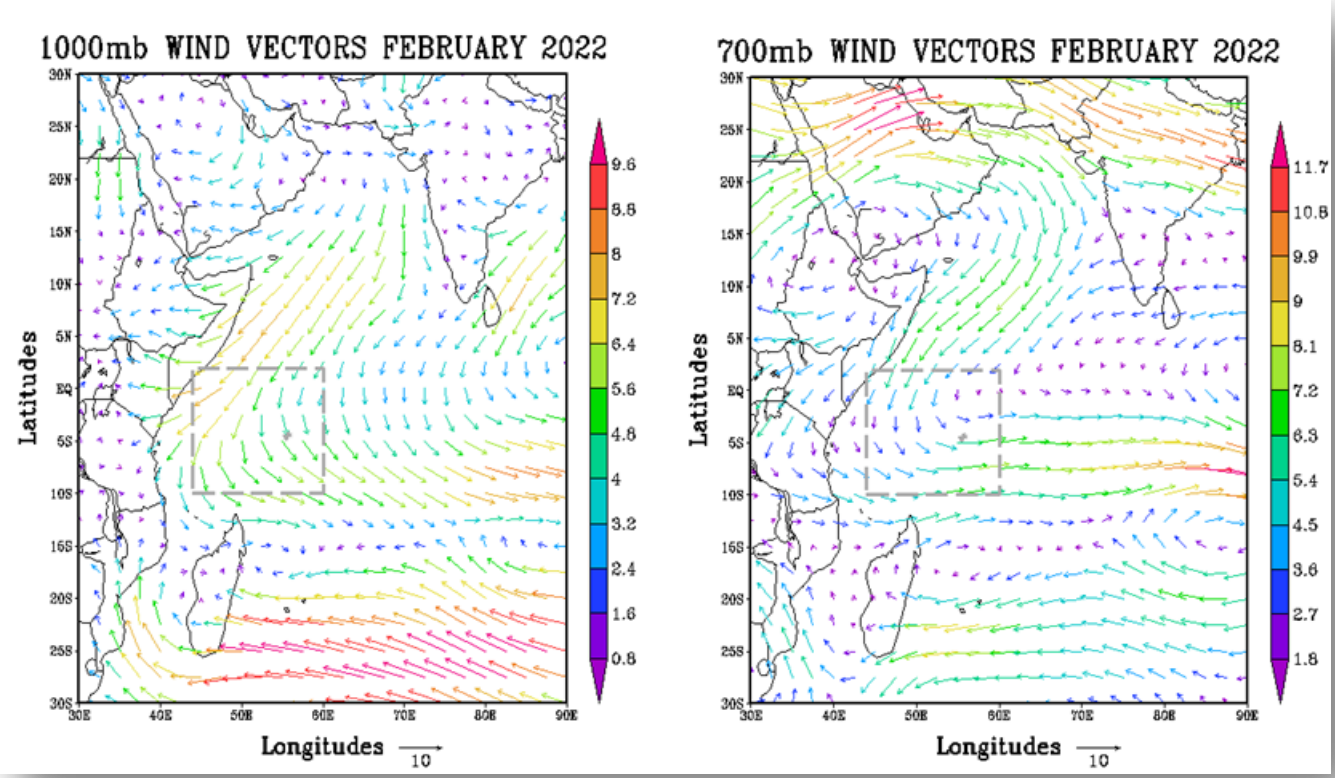


Figure 6: Surface wind flow (left) and wind flow at 700mb (right)

The analysis (Figure 6) indicates that at the surface, light to moderate North-westerlies of 3-8m/s converging mainly to the South between 10°S and 15°S across the Indian Ocean. Strong convergence is also present in the far northeast near the southern tip of the Asian continent.

The pattern at the middle levels also indicated a cyclonic flow near the east coast of Madagascar with moderate North-westerly and Westerly winds originating from the Arabian High. The occurrence of Cyclone BATSIRAI, DUMAKO and EMNATI in the Month of February maintained the monsoon trough to the south and hence reduced precipitation activities.