January 2022 Weather Review



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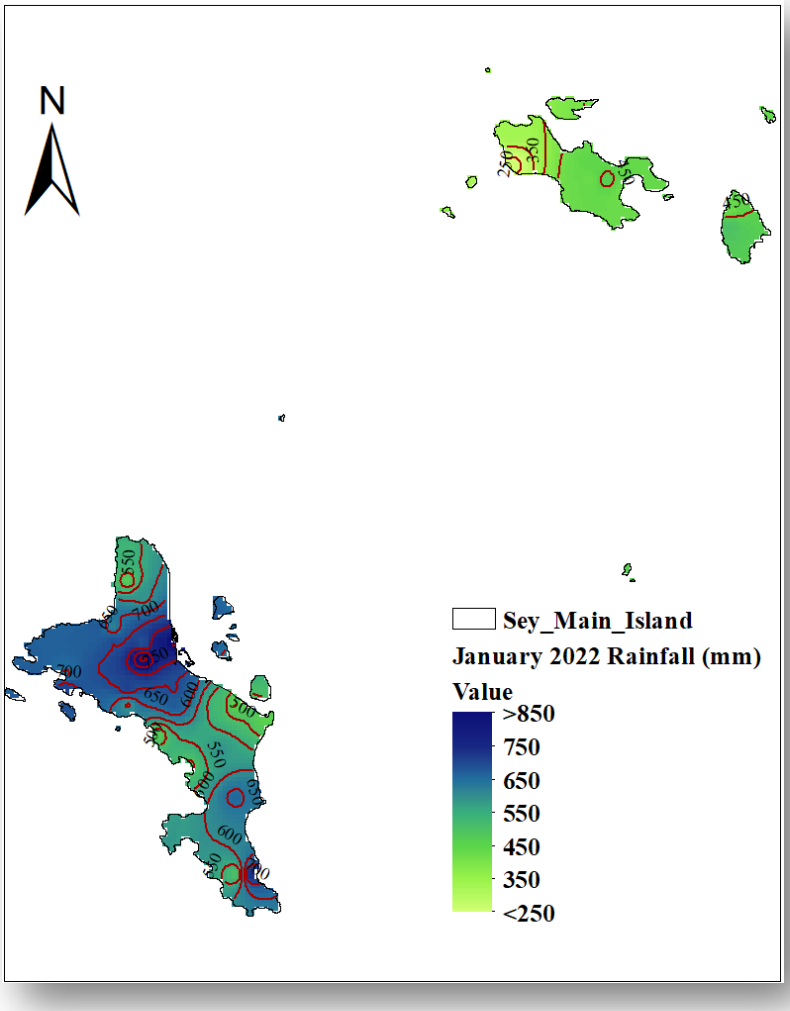
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1. Introduction

This bulletin reviews climate conditions over Mahe, Praslin, and La Digue and highlights the status of the climate systems during the month of January 2022. Although the mean position of the Near Equatorial Trough Axis remained to the north of Mahe, periodical relaxation and intensification of the mascarene high and Arabian High meant that the axis shifted to the south and North of Mahe and the inner islands.

2. Rainfall Performance in January 2022

2.1 Spatial Rainfall Distribution for January 2022



The spatial rainfall distribution for January (Figure 1) indicates that more rainfall exceeding 550mm was recorded around the central part extending to the North-west and South of the main island Mahe. La Digue and Praslin recorded less than 550mm of rainfall. Rochon Waterwork (PUC) was the station that recorded the highest rainfall amounting to 869.7mm. On Praslin Island, the maximum was 451.0mm recorded at Vallee De Mai Viewing Lodge station and, on La Digue, Belvue PUC station recorded a maximum of 500.8mm. A minimum of 236.6mm was reported at Praslin Airstrip Station.

Figure 1: January 2022 Spatial Rainfall Distribution

Rainfall recorded at the 37 stations compared the to their respective long-term mean (Figure 2) shows that most stations exceeded their long-term mean rainfall. The rainfall increase mid-January was attributed to a relatively active inter-tropical convergence zone. However, enhanced weather activities were experienced towards the end of January associated with tropical cyclone (BATSIRAI) which extended its feeder band over Mahe and Inner Islands especially during its early stages of development. Most stations surpassed their long-term means by over 130% with the exception of those to the extreme North and eastern Mahe as well as Praslin and La Digue (Figure 3).

Table 1 summarizes January's rainfall performance. Out of the 37 stations, 13 reported Near-Normal rainfall. The rest recorded above-average rainfall for January with significantly high positive anomalies. Generally, the monthly rainfall performance was Above-Normal.

2.2 January Rainfall Totals Compared to Long-Term Mean

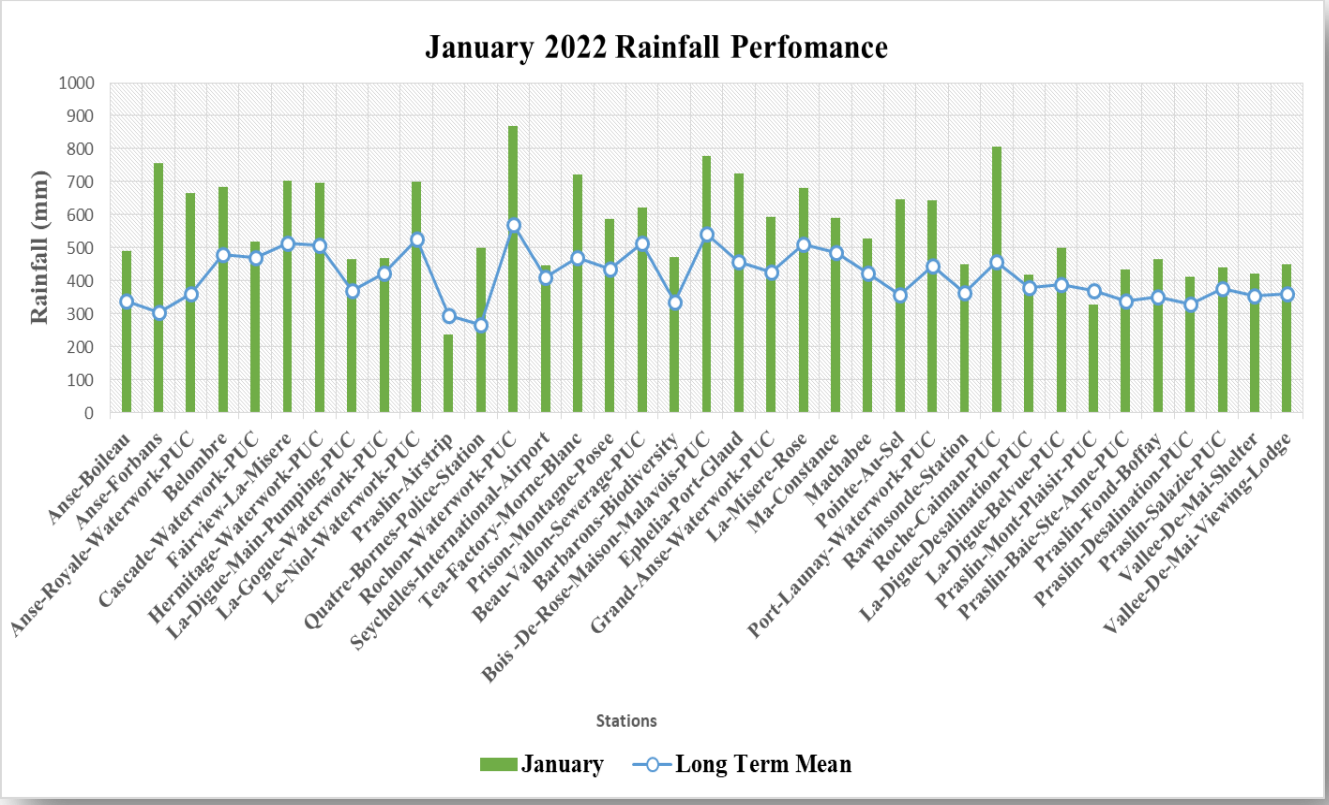


Figure 2: January 2022 rainfall totals compared to the long-term mean

2.3 Percentage of Mean Rainfall for January 2022

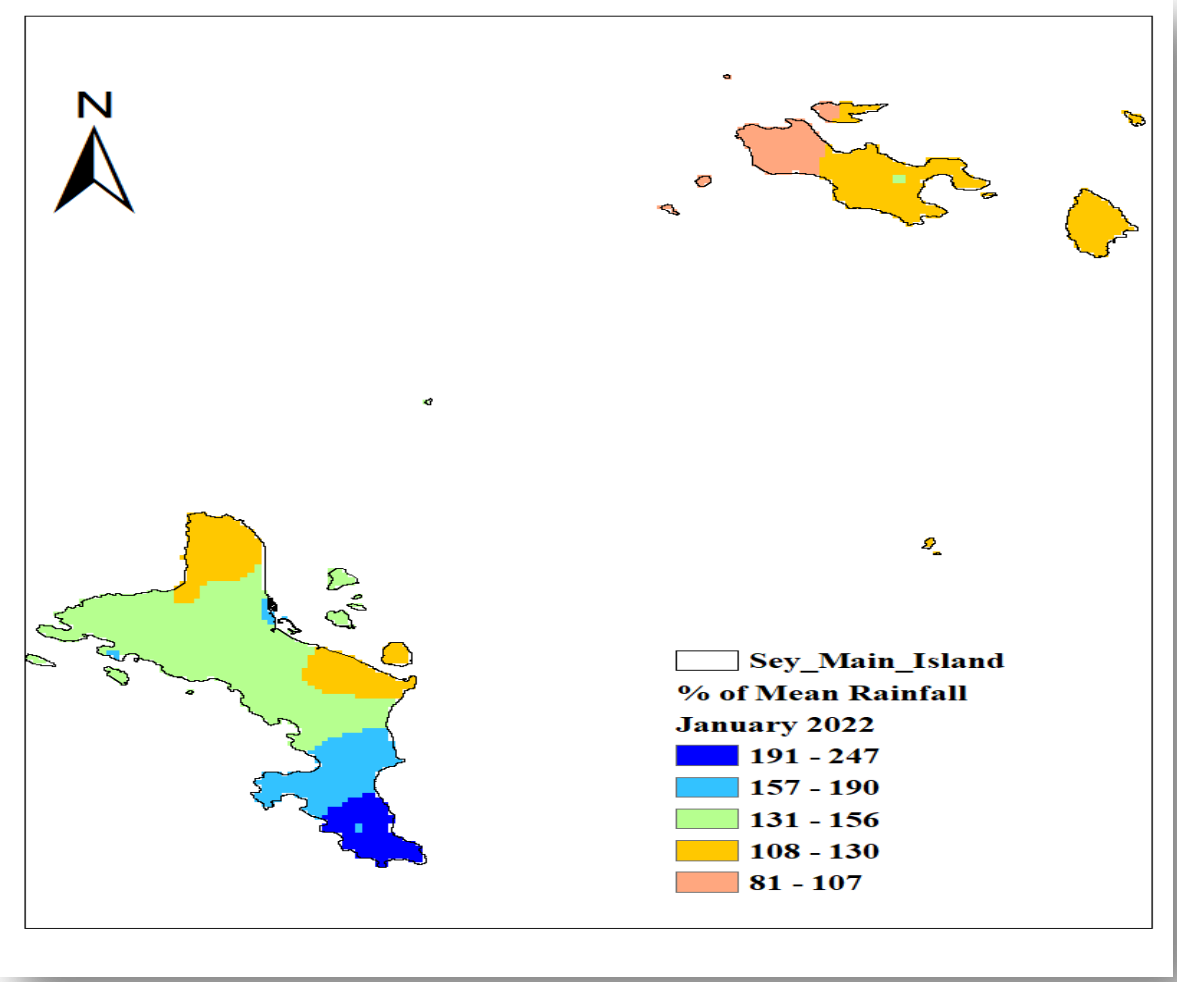


Figure 3: Percentage of mean Rainfall for January 2022

Table 1: Rainfall performance in January

Stations	January	Long Term Mean	BN	AN	BN?	AN?	Anomalies
Anse-Boileau	490.2	339.7	254.775	424.625	NO	YES	150.5
Anse-Forbans	756.9	304.3	228.225	380.375	NO	YES	452.6
Anse-Royale-Waterwork-PUC	664.4	360	270	450	NO	YES	304.4
Belombre	683.5	479.9	359.925	599.875	NO	YES	203.6
Cascade-Waterwork-PUC	518.8	470.1	352.575	587.625	NO	NO	48.7
Fairview-La-Misere	703.7	513.5	385.125	641.875	NO	YES	190.2
Hermitage-Waterwork-PUC	695.7	506.1	379.575	632.625	NO	YES	189.6
La-Digue-Main-Pumping-PUC	464.8	371.3	278.475	464.125	NO	YES	93.5
La-Gogue-Waterwork-PUC	467	423	317.25	528.75	NO	NO	44.0
Le-Niol-Waterwork-PUC	701	526.2	394.65	657.75	NO	YES	174.8
Praslin-Airstrip	236.6	293.7	220.275	367.125	NO	NO	-57.1
Quatre-Bornes-Police-Station	498.2	265.5	199.125	331.875	NO	YES	232.7
Rochon-Waterwork-PUC	869.7	568.6	426.45	710.75	NO	YES	301.1
Seychelles-International-Airport	447.1	409.3	306.975	511.625	NO	NO	37.8
Tea-Factory-Morne-Blanc	722.7	470.3	352.725	587.875	NO	YES	252.4
Prison-Montagne-Posee	588.6	434.4	325.8	543	NO	YES	154.2
Beau-Vallon-Sewerage-PUC	622.2	513.5	385.125	641.875	NO	NO	108.7
Barbarons-Biodiversity	470.1	334.6	250.95	418.25	NO	YES	135.5
Bois -De-Rose-Maison-Malavois-PUC	778.8	540.6	405.45	675.75	NO	YES	238.2
Ephelia-Port-Glaud	724.1	456.5	342.375	570.625	NO	YES	267.6
Grand-Anse-Waterwork-PUC	592.7	426.7	320.025	533.375	NO	YES	166.0
La-Misere-Rose	682	511.5	383.625	639.375	NO	YES	170.5
Ma-Constance	589.6	486.4	364.8	608	NO	NO	103.2
Machabee	528.6	423.6	317.7	529.5	NO	NO	105.0
Pointe-Au-Sel	645.7	358.2	268.65	447.75	NO	YES	287.5
Port-Launay-Waterwork-PUC	644.7	446.2	334.65	557.75	NO	YES	198.5
Rawinsonde-Station	451	364.4	273.3	455.5	NO	NO	86.6
Roche-Caiman-PUC	804.9	456.3	342.225	570.375	NO	YES	348.6
La-Digue-Desalination-PUC	418.9	379.5	284.625	474.375	NO	NO	39.4
La-Digue-Belvue-PUC	500.8	387.1	290.325	483.875	NO	YES	113.7
Praslin-Mont-Plaisir-PUC	326.2	370.3	277.725	462.875	NO	NO	-44.1
Praslin-Baie-Ste-Anne-PUC	433.4	339.9	254.925	424.875	NO	YES	93.5
Praslin-Fond-Boffay	463.7	351.1	263.325	438.875	NO	YES	112.6
Praslin-Desalination-PUC	412	329.7	247.275	412.125	NO	NO	82.3
Praslin-Salazie-PUC	441.1	375.6	281.7	469.5	NO	NO	65.5
Vallee-De-Mai-Shelter	421.5	354.3	265.725	442.875	NO	NO	67.2
Vallee-De-Mai-Viewing-Lodge	451	360.4	270.3	450.5	NO	YES	90.6

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

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

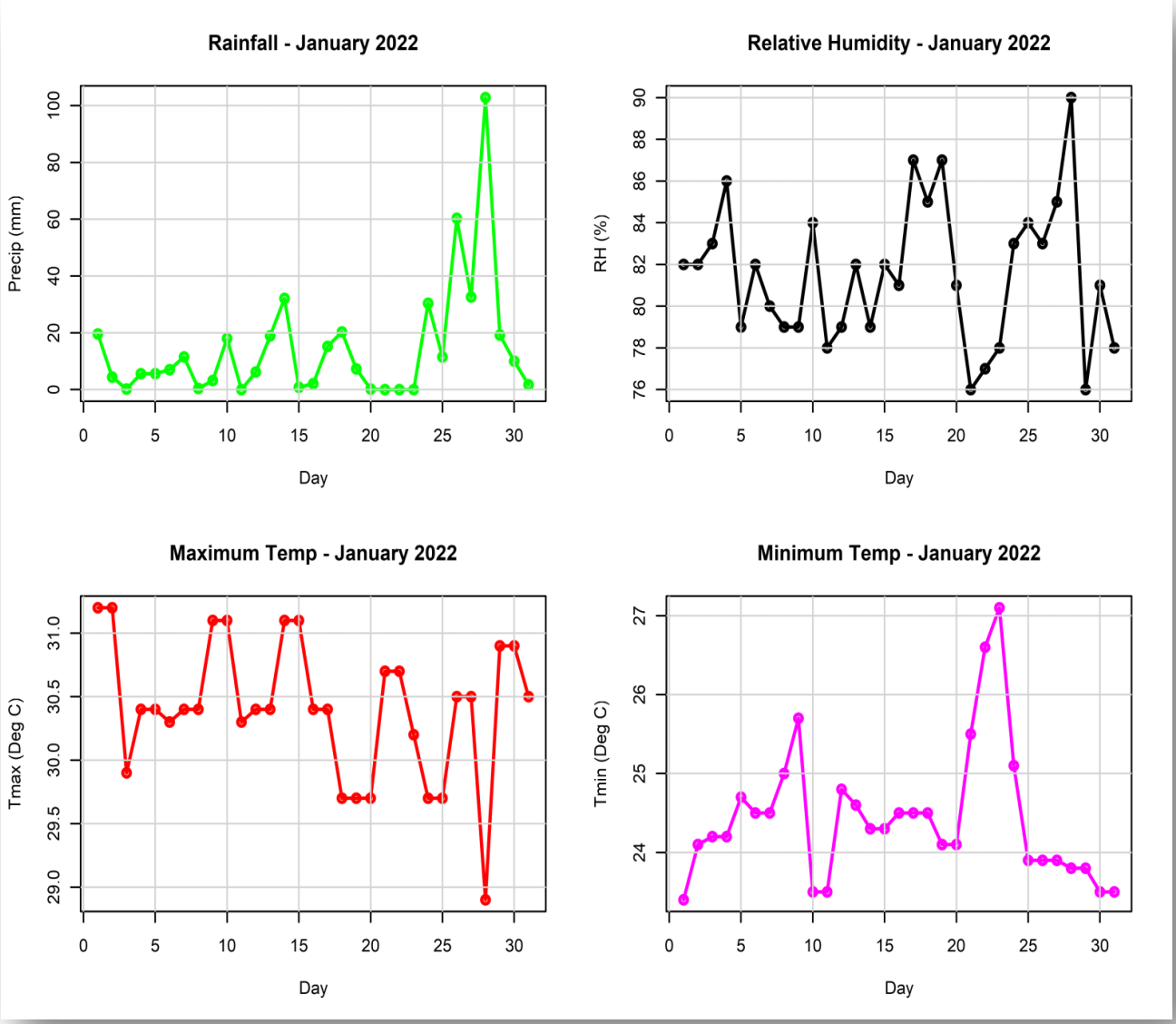


Figure 4: Daily rainfall, relative humidity, maximum and minimum temperatures in January 2022

The highest recorded daily rainfall in January at the Airport Station was 102.8mm on the 28th, with only 2 dry days during the month. The daily mean Relative Humidity was significantly

high above 75% (Figure 4). Daily maximum temperature generally remained above 28.0˚C for the entire month with a highest temperature of 31.2˚C reported on the 1st-2nd. The minimum temperature varied between 23.0˚C to 26.0˚C. However, a minimum temperature of 26.6˚C and 27.1˚C was reported on the 22nd and 23rd respectively.

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

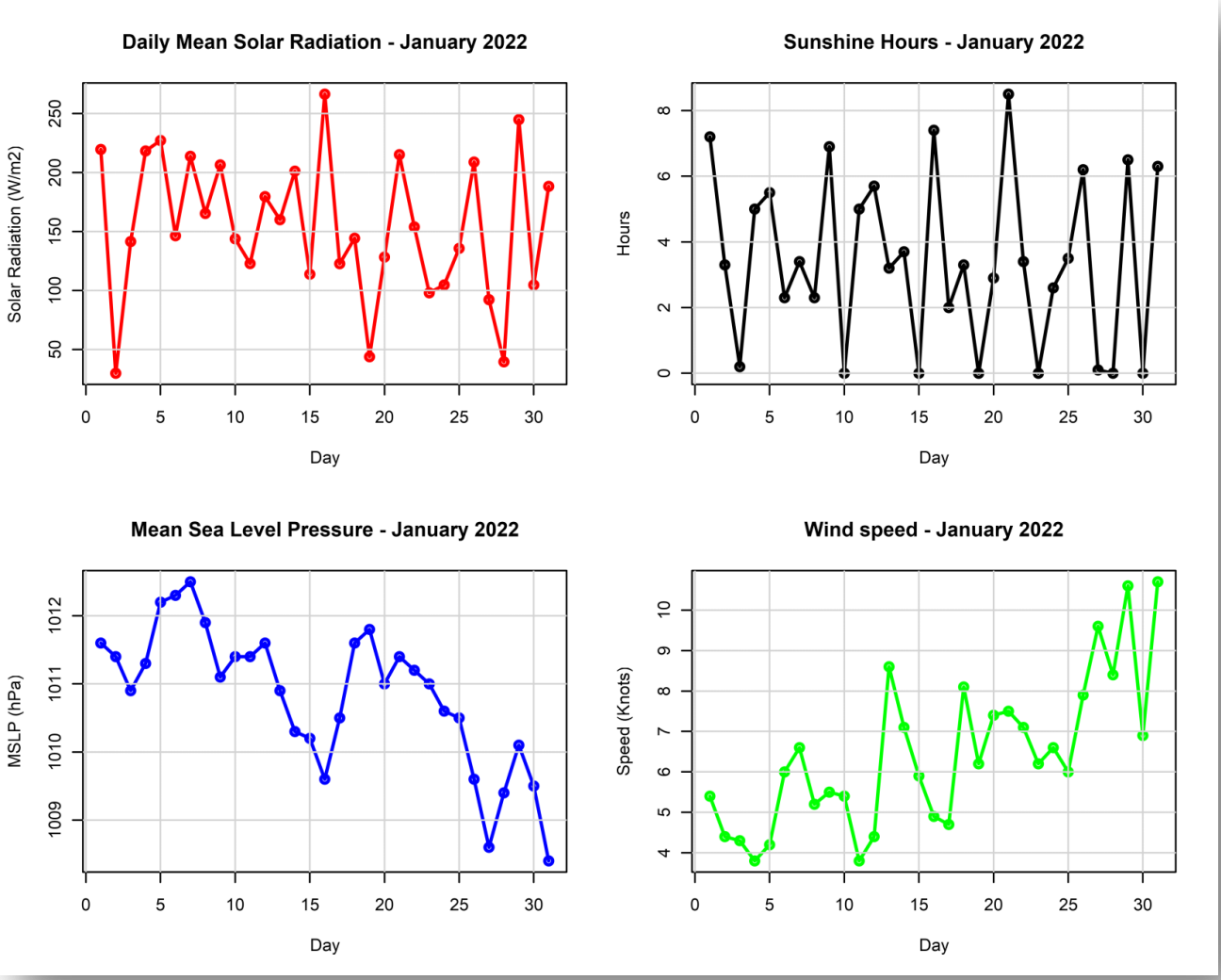


Figure 5: Daily solar Radiation, Sunshine hours, Mean Sea Level Pressure, and Surface wind speeds in January 2022

On average, the mean solar radiation during January remained mostly above 100 W/m2, and the diurnal variation closely matched the sunshine hours. The wind speeds were light to moderate, ranging between 4-10 Knots depicting an increasing trend while the mean sea level pressure showed a negative trend with a range of 1008.4-1012.5hPa (Figure 5).