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# Fiji Climate Summary November 2024

ISO 9001:2015 certified Climate Services

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# IN BRIEF

In November, rainfall across the country showed significant variation, ranging from *below average* to *well above average*. A series of low-pressure troughs caused heavy rainfall events, leading to flash flooding in some areas of the country, particularly in the Central and Eastern Divisions.

Overall, out of the 25 rainfall monitoring stations that reported in, in time for the compilation of this bulletin, 5 recorded *well above average*, 12 *above average*, 5 *average*, and 3 stations with *below average rainfall* (Table 2, Figures 1-5).

The highest monthly rainfall of 718.6mm was observed at Monasavu, followed by Laucala Bay (Suva) with 549.0mm, Koronivia with 528.2mm, Nasinu with 499.5mm, Matuku with 430.3mm, Navua with 414.5mm, Nausori Airport with 385.3mm, Rotuma with 367.9mm, Dobuilevu with 354.0mm, and Vunisea with 324.5mm.

On temperatures, the month's warmest day-time temperature of 36.6°C was observed at Momi on the 15<sup>th</sup>, followed by Yasawa-i-Rara with 36.0°C on the 2<sup>nd</sup>, and RKS Lodoni with 34.6°C on the 27<sup>th</sup>.

The months lowest night-time temperature of 13.4°C was recorded at Nadarivatu on the 5<sup>th</sup>, followed by Monasavu with 16.3°C on the 6<sup>th</sup>, Vanuabalavu with 16.4°C on the 5<sup>th</sup>, Ono-i-Lau with 17.3°C on the 11<sup>th</sup>, and Lakeba with 18.0°C on the 10<sup>th</sup>.

Southeasterly winds were dominant at Nadi Airport, Savusavu Airfield and Matei Airfield, while easterly winds were dominant at Nausori Airport (Figure 7).

Warmer than normal sea surface temperature anomalies were observed across Fiji Waters (Figure 8).

Above normal sea level anomalies persisted across most of the Fiji Waters during November (Figure 10).

# 2. WEATHER PATTERNS

The month of November began with the 2024/2025 Tropical Cyclone season and influenced by evolving tropical weather systems that were aided by the subtropical high-pressure systems retracting further south. This was coupled with warm and cool phases of the atmospheric waves propagating through the group resulting in the environment becoming more unsettled and conducive for rainfall events with thunderstorms linked to series of passing troughs or convergence zones and prevailing moist easterly wind flows. Conditions were generally humid with maximum temperatures ranging between the high twenties and the mid-thirties. Initially, occasional showers were experienced over the eastern parts of the group from a trough that was situated over the country till the 2<sup>nd</sup> when it drifted away from Fiji. An easterly wind flow prevailed over the country thereafter till the 3<sup>rd</sup> followed by a southeast wind flow which became dominant until the 6<sup>th</sup>. Another trough of low pressure developed to the northwest of the group on the 7<sup>th</sup> with associated cloud and showers affecting most parts of the country. The trough gradually weakened over Fiji on the 9<sup>th</sup> while an easterly wind flow continued to prevail till the 10<sup>th</sup>.

A trough of low pressure developed just to the east of the group which mainly affected the northern and eastern

parts of the country from the 11<sup>th</sup> while the western parts of Fiji continued to experience fine weather apart from isolated afternoon showers. This trough slowly moved northeastwards and kept affecting parts of the group until the 13<sup>th</sup>. The affected parts of Fiji continued to be exposed to another trough that developed north of the country thereon till the 17<sup>th</sup> and another trough till the 19<sup>th</sup> before dissipating. On the 20<sup>th</sup>, a series of troughs approached the group from the north and the west affecting most parts of the country till the 26<sup>th</sup> as it gradually weakened. An easterly wind flow continued to prevail while gradually turning northerly till the 28<sup>th</sup> and later turning east to northeast thereafter till the end of the month. Meanwhile, on the 27<sup>th</sup>, a shallow low- pressure system just to the southwest of Fiji was embedded along a trough affecting the southern and eastern parts of the group which was then scattered to the rest of the group on the 28<sup>th</sup> as the trough drifted over the group resulting in most parts of the country to experience significant rainfall towards the end of the month.

Rotuma's weather was mainly affected by the moist easterlies and series of troughs of low pressures that brought mostly cloudy conditions with showers and rain over the island.

\*Previously known as the Fiji Islands Weather Summary and Monthly Weather Summary

# 3. RAINFALL

In November, rainfall across the country varied significantly, ranging from *below average* to *well above average*. Majority of the stations experienced wetter than usual conditions, with Koronivia, Laucala Bay (Suva), Vunisea, and Ono-i-Lau recording more than twice their normal monthly rainfall, while Matuku recorded over three times its normal rainfall.

Conversely, drier than usual conditions were observed at Nacocolevu, Vanuabalavu, and Lakeba, while stations such as Nadi Airport, Viwa, Nabouwalu, Savusavu, and Rotuma reported *average* rainfall. Overall, out of the 25 rainfall monitoring stations that reported in, in time for the compilation of this bulletin, 5 recorded *well above average*, 12 *above average*, 5 *average*, and 3 stations with *below average rainfall* (Table 2, Figures 1-5).

The highest monthly rainfall of 718.6mm was observed at Monasavu, followed by Laucala Bay (Suva) with 549.0mm, Koronivia with 528.2mm, Nasinu with 499.5mm, Matuku with 430.3mm, Navua with 414.5mm, Nausori Airport with 385.3mm, Rotuma with 367.9mm, Dobuilevu with 354.0mm, and Vunisea with 324.5mm. On the other hand, Lakeba recorded the month's lowest total monthly rainfall of 79.4mm, followed by Nacocolevu with 89.2mm, Viwa with 100.5mm, Vanuabalavu with 100.9mm, and Nadi Airport with 122.7mm (Table 2).

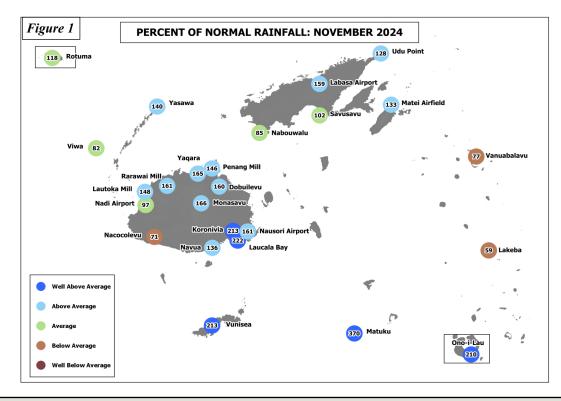
The highest 24-hour rainfall of 112mm was recorded at Koronivia on the 29<sup>th</sup>, followed by Udu Point with 110mm on 30<sup>th</sup>, Matuku with 109mm on the 11<sup>th</sup>,

Dobuilevu with 101mm on the 30<sup>th</sup>, Monasavu and Nausori Airport both with 100mm on the 23<sup>rd</sup> and 29<sup>th</sup>, respectively, Vunisea with 89mm on the 30<sup>th</sup>, Nasinu with 88mm on the 29<sup>th</sup>, and Laucala Bay (Suva) with 87mm on the 25<sup>th</sup>.

Notably, a series of low-pressure troughs, forming between the 11<sup>th</sup> and the end of the month, caused flash flooding at several low level crossings in low lying areas of the Central and Eastern Divisions. This led to the closure of crossings, making some areas inaccessible.

Monasavu recorded the highest number of rain days (rainfall ≥0.1mm) with 30 days, followed by Koronivia with 28 days, Laucala Bay (Suva) with 27 days, Dobuilevu, Nausori Airport and Navua all with 26 days, Nasinu with 25 days, Rotuma, Ono-i-Lau, RKS Lodoni all with 23 days, and Matei Airfield and Keiyasi both with 22 days. Consequently, Viwa and Lakeba recorded the least number of rainfall days with 8 days, followed by Momi with 11 days, Nadi Airport, Nacocolevu, Yaqara, Rarawai Mill (Ba) and Yasawa-i-Rara all with 13 days, and Vanuabalvu and Lautoka Mill both with 14 days.

There were no new rainfall records observed during the month.



# 4. AIR TEMPERATURES

### A. Maximum Day-time Air Temperatures

Near normal to above normal day-time air temperatures were observed across the country during the month. Out of the 21 climate stations that reported in time for the analysis of data, 9 recorded anomalies  $\geq +0.5$ °C, and 12 within  $\pm 0.5$ °C.

On average, the warmest days were recorded at Yasawai-Rara with 33.4°C, followed by RKS Lodoni with 32.7°C, Momi with 32.6°C, Labasa Airport and Yaqara both with 32.1°C, Rotuma with 31.3°C, Nadi Airport with 31.1°C, and Lautoka Mill with 30.9°C. Consequently, Monasavu recorded the coolest days on average with 24.9°C, followed by Nadarivatu with 25.7°C, Ono-i-Lau with 25.9°C, Vanuabalavu and Vunisea both with 29.3°C, Laucala Bay (Suva) with 29.4°C, Matuku with 29.5°C and Nausori Airport and Matei Airfield both with 29.6°C.

The month's highest day-time temperature of 36.6°C was observed at Momi on the 15<sup>th</sup>, followed by Yasawa-i-Rara with 36.0°C on the 2<sup>nd</sup>, RKS Lodoni with 34.6°C on the 27<sup>th</sup>, Yaqara with 34.4°C on the 19<sup>th</sup>, Labasa Airport with 34.2°C on the 29<sup>th</sup>. On the other hand, the coolest day-time temperature of 21.2°C was at Monasavu on the 8<sup>th</sup>, followed by Nadarivatu with 21.6°C on the 8<sup>th</sup>, Ono-i-Lau with 25.8°C on the 2<sup>nd</sup>, Laucala Bay (Suva) and Nausori Airport both with 26.0°C on the 6<sup>th</sup>.

There were no new day-time temperature records established during the month.

# **B.** Minimum Night-time Air Temperatures

Generally, below normal to above normal night-time temperatures were recorded at majority of the climate stations during the month. For the 22 stations that reported in, 13 recorded anomalies  $\geq +0.5$ °C, 5 within  $\pm 0.5$ °C, and 4 with anomalies  $\leq -0.5$ °C.

The coolest nights on average were at Nadarivatu with 18.0°C, followed by Monasavu with 18.8°C, Vanuabalavu with 21.3°C, Korolevu with 21.4°C, Vunisea with 21.8°C, Matei Airfield with 22.1°C, Rarawai Mill, (Ba) and Sigatoka both with 22.2°C, and Labasa Airport with 22.3°C. Consequently, on average, the warmest night-time temperatures were observed at RKS Lodoni with 25.4°C, Yasawa-i-Rara with 25.0°C, Rotuma and Udu Point both with 24.5°C, and Yaqara, Laucala Bay (Suva) and Nabouwalu all with 24.1°C.

Most of the coolest daily night-time temperatures were recorded during the first and second week of the month. The lowest night-time temperature of 13.4°C was recorded at Nadarivatu on the 5<sup>th</sup>, followed by Monasavu with 16.3°C on the 6<sup>th</sup>, Vanuabalavu with 16.4°C on the 5<sup>th</sup>, Ono-i-Lau with 17.3°C on the 11<sup>th</sup>, and Lakeba with 18.0°C on the 10<sup>th</sup>. On the other hand, the warmest night-time temperature of 27.9°C was recorded at Ono-i-Lau on the 2<sup>nd</sup>, followed by RKS Lodoni with 27.6°C on the 23<sup>rd</sup>, Rotuma with 27.5°C on the 15<sup>th</sup>, and Nacocolevu with 27.0°C on the 26<sup>th</sup>.

There were no new night-time temperature records established during the month.

# **TABLE 1. CLIMATE RECORDS ESTABLISHED IN NOVEMBER 2024**

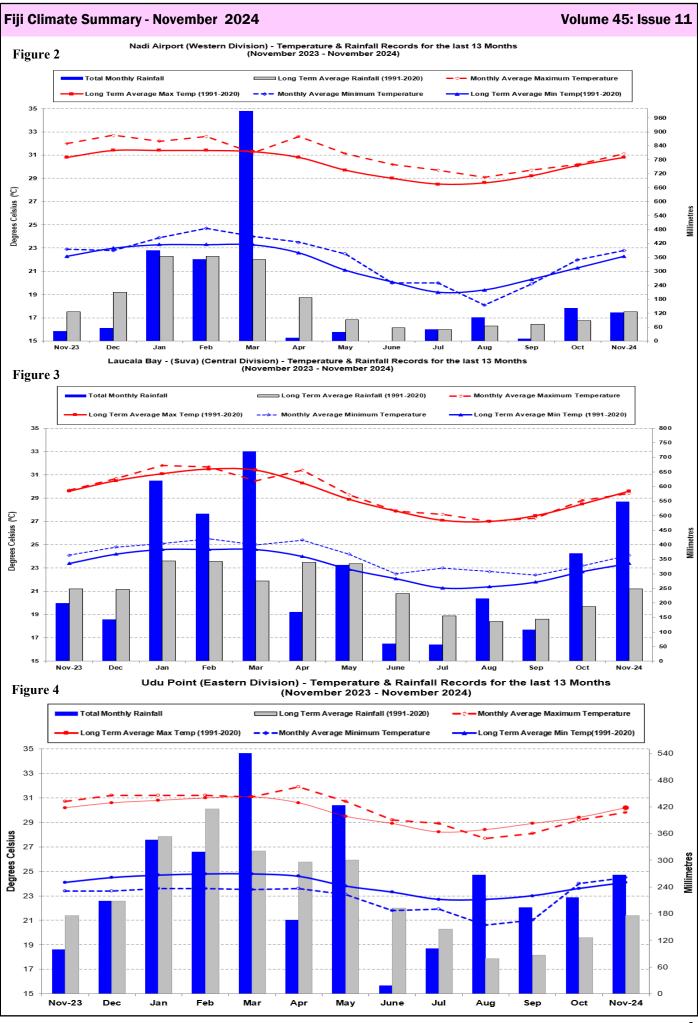
There were no new climate records established during November 2024.

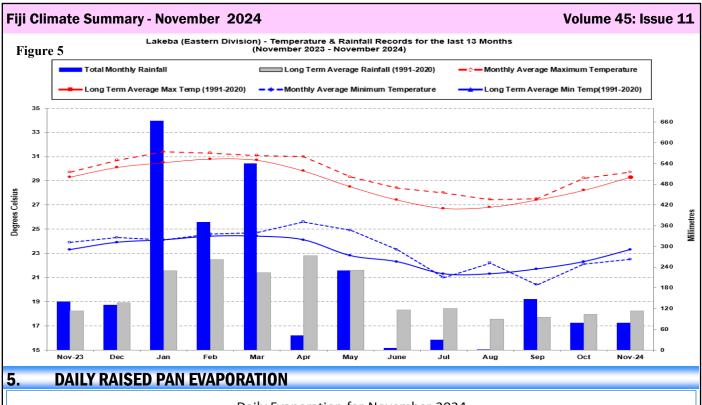
Note: All comparisons in this summary are with respect to "Climatic Normals". This is defined to be the average climate condition over a 30-year period. Fiji uses 1991-2020 period as its "climatic normal" period.

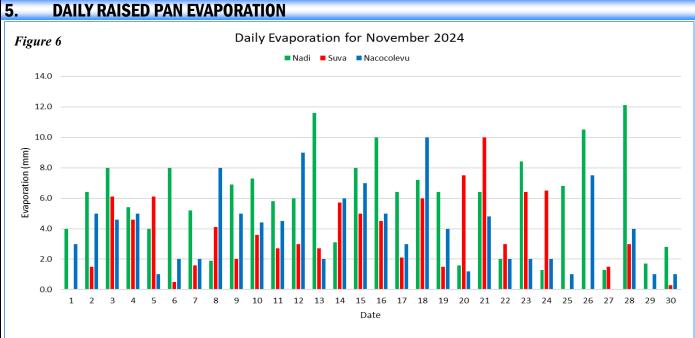
# TABLE 2. DAILY CLIMATE REPORTING SITES: SUMMARY FOR NOVEMBER 2024

```
AIR TEMPERATURES
                                                                                            SUNSHINE
                             RAINFALL
                        TOTAL
                                  RAIN MAX.
                                                      AVERAGE DAILY
                                                                             EXTREME
                                                                                              TOTAL
                                * DAYS FALL
                                                   MAX. #
                                                             MIN.
                                                                         MAX.
                                                                                   MIN.
                                                                    C C ON C ON
0.6 32.6 18 20.7 6
0.7 31.6 26 21.5 12
                                 %
                                         MM ON
                                                  C C C
31.1 0.3 22.8
                         MM
                                                                                              HRS
                        122.7
                                97 13
                                         23 25
87 25
                                                                                              187
                                                                                                    86
NADI AIRPORT
LAUCALA BAY
                        549.0 222 27
                                                  29.4 -0.2 24.1
                                                                                              149
                                                                                                    94
                                                  30.3 -0.4 22.5
NACOCOLEVU RESEARC
                               71 13
                                          31 25
                                                                    1.6 33.5 24 18.8 12
                                                                                              157 108
                         89.2
                        367.9 118 23
                                             24
ROTUMA ISLAND
                                          72
                                                  31.3
                                                        0.5 24.5 -0.4 32.8 28 22.4 25
                                                                                              214 118
                                         62 30
                                                                                   U/S
VIWA (AWS)
                        100.5
                               82
                                                  U/S
                                                              U/S
                                                                          U/S
                       140.0 140 13
                                                  33.4
                                                        2.6 25.0
                                                                                2 23.2
                                         70 30
                                                                    1.2 36.0
YASAWA-I-RARA
                        267.5 128 19
160.2 85 18
                                             30
24
                                                             24.5
24.1
                                                                         31.1 18 22.8
31.7 2 22.0
                                        110
                                                  29.8 -0.4
                                                                     0.4
                                                                                         12
UDU POINT (AWS)
                                                  30.0
                               85 18
                                                         0.6
                                                                     0.4
NABOUWALU
                                         28
                                          56 30
                                                                     0.8 34.2 29 19.1 10
                        249.8 159 19
                                                         0.5 22.3
LABASA AIRFIELD
                                                  32.1
                       185.6 102 20
528.2 213 28
                                            11
29
29
29
23
26
                                                         0.4
0.7
                                                             23.5
23.1
                                                                     0.5 31.3
1.0 31.7
SAVUSAVU AIRFIELD
                                         46
                                                  29.7
                                                                                26
                                                                                   22.0
                                                  29.8
                                                                     1.0
                                                                                   20.7
KORONIVIA RESEARCH
                                        112
                                                                               10
                                                                               19 20.7 12
NAUSORI AIRPORT
                        385.3 161 26
                                        100
                                                  29.6
                                                         0.7 23.1
                                                                     0.9 31.4
                                                                     0.8 31.7 27
0.9 27.5 4
                       414.5 136 26
718.6 166 30
                                                             22.5
                                                         1.7
                                                                                   19.6 10
NAVUA (AWS)
                                         69
                                                  30.2
                                        100
                                                  24.9
                                                         0.6
                                                             18.8
MONASAVU HYDRO DAM
                                                                                   16.3
FSC LAUTOKA MILL
                        193.6 148 14
                                         52
                                                  30.9
                                                         0.1 22.9
                                                                     0.3 32.5
                                                                                   20.4
                                         43 27
45 30
FSC RARAWAI MILL
                                                                     0.8 U/S
0.7 32.
                                                                                   18.5 16
                        250.3 161 13
                                                  U/S
                                                              22.2
                                                         0.2 23.6
                                                                         32.9
                        215.3 146 20
                                                  30.8
FSC PENANG MILL
                                                                               11 21.4
                                                  29.6
MATEI AIRFIELD
                        260.5 133 22
                                          63 22
                                                         0.4 22.1 -1.4 30.8 28 19.6
                                                  29.3
                                                             21.3 -2.3
22.5 -0.9
                        100.9
                                                         0.2
                               77 14
                                          38 26
                                                                                  16.4
VANUABALAVU
                                                                         30.6
                                59
LAKEBA
                         79.4
                                          32
                                              3
                                                  29.7
                                                         0.4
                                                                         31.0
                                                                               19 18.0 10
                                                         0.6 21.8 -0.8
                        324.5 213 21
                                          89 30
                                                  29.3
VUNTSFA
                                                                         30.5 18 20.5
                                                  29.5 0.4 23.4
27.9 -0.3 23.1
                       430.3 370 21
222.3 210 23
                                        109 11
                                                                     0.2
                                                                         31.9 23 21.5
MATUKU
ONO-I-LAU
                                         66 18
                                                                     0.6
                                                                         30.1 19 17.3
YAQARA AWS
                        150.0 165 13
                                                  32.1
                                                              24.1
                                          33
                                            23
                                                                          34.4 19 21.9
LEVUKA AWS
                          U/S
                                                  U/S
                                                              U/S
                                                                          U/S
                                                                                   U/S
                                                             U/S
U/S
                        200.5
                                         45
                                            29
KEIYASI AWS
                                    22
                                                  U/S
                                                                          U/S
                                                                                   U/S
                          Ű/S
                                                                          U/S
                                                                                   U/S
LOMAIVUNA AWS
                                                  U/S
                        210.5
                                          49
                                             25
                                                  25.7
                                                                          27.8 13 13.4
NADARIVATU AWS
                                    20
                                                              18.0
                                                                          34.6 27 23.1 10
36.6 15 21.1 12
                                                  32.7
32.6
RKS LODONI AWS
                                   23
                                         46 29
                                                              25.4
                        265.5
                                             29
MOMI AWS
                        190.5
                                                              23.0
                                    11
                                         79
SIGATOKA AWS
                          U/S
                                                  30.2
                                                              22.2
                                                                          2.3
                                                                                   18.3
                                                                          U/S
VATUREKUKA AWS
                          U/S
                                                              U/S
                                                  U/S
                                                                                   U/S
                                                                          32.9 26 18.8 10
                                   17
                                          25 25
KOROLEVU AWS
                        158.5
                                                  30.0
                                                              21.4
WAINIKORO AWS
                          U/S
                                                              U/S
                                                                          U/S
                                                  U/S
                                                                                   U/S
SAQANI AWS
                          U/S
                                                                         U/S
                                                              U/S
                                                                                   U/S
                                                  U/S
SEAQAQA AWS
                                                  U/S
                                                              U/S
                                                                          U/S
                                                                                   U/S
                          U/S
                        354.0 160 26
499.5 25
DOBUILEVU TB3
                                        101 30
NASINU TB3
                                          88 29
TAVUA TB3
                          U/S
                      TEMPERATURE( C) HUMIDITY WIND
                             DRY WET
                                        RH% VP
                                 (AVERAGE AT 9AM) KT
                      27.0 28.4 24.1
26.8 27.3 25.1
                                         69 28.9
83 27.1
                                                    6.8
7.7
NADI AIRPORT
LAUCALA BAY
NACOCOLEVU RESEARC 26.4 28.5 25.0
                                         76 29.1
ROTUMA ISLAND
                      27.9 29.1 26.6
                                         82 30.1
VIWA (AWS)
                      29.2 29.8 26.3
YASAWA-I-RARA
                                         76 31.4
UDU POINT (AWS)
                      27.2
                      27.0 27.7 24.9
27.2 29.1 24.9
NABOUWALU
                                                     NA
                                         70 30.1
                                                    7.4
LABASA AIRFIELD
SAVUSAVU AIRFIELD
                      26.6 27.9 24.9
                                         78 28.1
                                                    7.6
                                         82 27.5
KORONIVIA RESEARCH 26.4 27.5
                                  25.0
                                  24.8
                                         81 27.1
NAUSORI AIRPORT
                      26.4 27.3
                                                    5.8
MONASAVU HYDRO DAM 21.9 21.7 FSC LAUTOKA MILL 26.9 26.8
                                          96 19.4
                                  21.2
FSC LAUTOKA MILL FSC RARAWAI MILL
                                  25.8
                                         93
                                             26.4
                        NA 29.1 25.2
                                         73 30.1
                      27.2 27.9 24.8
25.9 28.3 25.4
                                            28.1
28.8 11.7
FSC PENANG MILL
                                          78
                                          79
MATEI AIRFIELD
                                  24.7
VANUABALAVU
                      25.3
                            27.3
                                             27.1
                                          81
LAKEBA
                      26.1 28.0 25.0
                                          78 28.3
                                  23.0
                            25.3
26.5
VUNTSFA
                      25.6
                                         83 24.1
                                         79 25.9
83 25.7 10.8
                      26.5
MATUKU
                      25.5 26.4 24.1
ONO-I-LAU
```

MEAN TEMPERATURE IS (MAX+MIN)/2; WIND IS MEAN SPEED AT 06,12,18,24 HOURS. \$:SOLAR RADIATION CALCULATED FROM SUNSHINE DURATION. #:DEPARTURE FROM LONG-TERM AVERAGES (1991-2020). +:NUMBER OF DAYS WITH 0.1 MM OR MORE RAIN. \*:PERCENT OF LONG-TERM AVERAGES. BLUE FONT: MISSING RECORDS OF LESS THAN OR EQUAL( $\leq$ ) TO 5 DAYS. U/S: UNSERVICEABLE





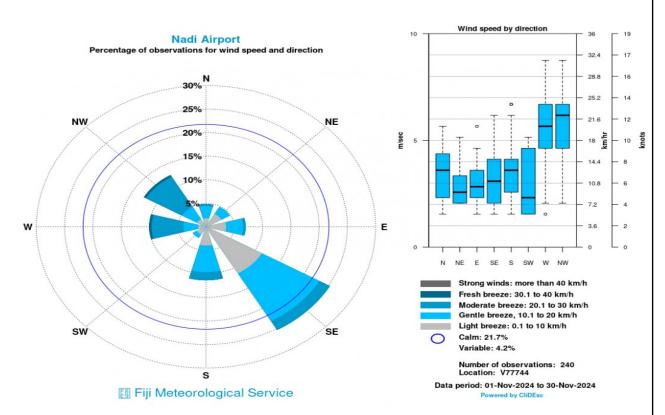


**Figure 6:** The total monthly raised pan evaporation at Nadi Airport, Laucala Bay (Suva) and Nacocolevu (Sigatoka) were 176.5mm, 101.5mm and 117.0mm, respectively. Nadi's highest daily evaporation was 12.1mm on the 28<sup>th</sup> with Suva's highest daily evaporation of 10.0mm on the 21<sup>st</sup>, and Nacocolevu (Sigatoka) recorded its highest of 10.0mm on the 18<sup>th</sup>.

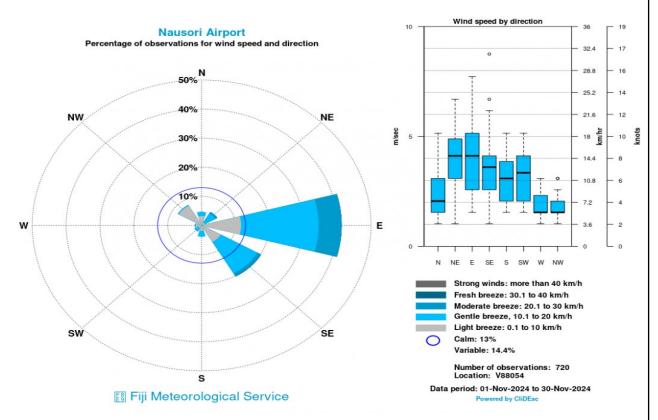
# 6. SOLAR RADIATION

The Nadi solar radiation instrument was unserviceable during the month of November 2024.

# 7. WIND SUMMARY



*Figure 7a*: Looking at Nadi's 3 hourly observations, southeasterly winds were most dominant during the month, followed by northwesterly and then southerly winds. Wind strength ranged from light to fresh breeze, while 21.7% observations accounted for calm winds.



*Figure 7b*: For Nausori Airport's hourly wind observations, easterly winds were most dominant during the month, followed by southeasterly and then northwesterly winds. Wind strength ranged from light to moderate breeze, while 13.0% observations accounted for calm winds.

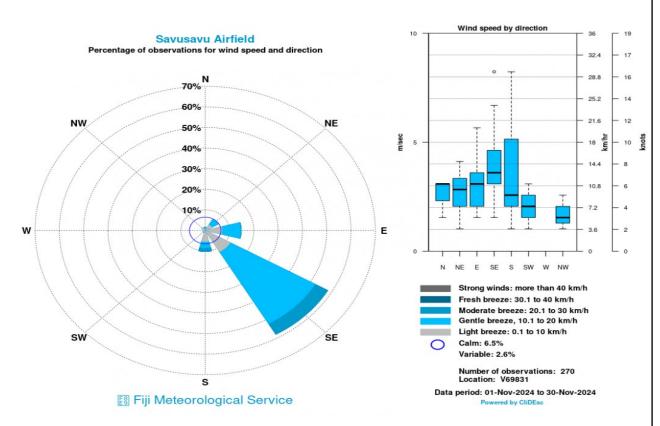
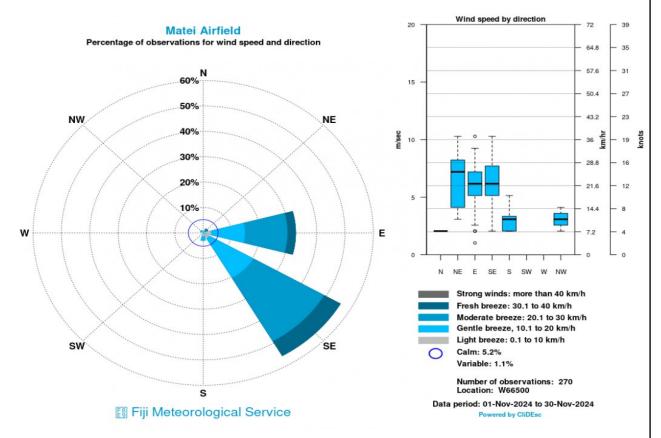
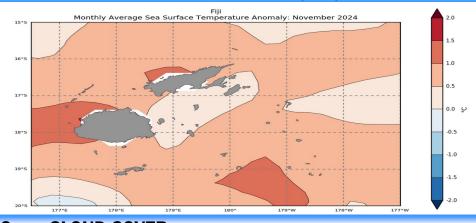


Figure 7c: For Savusavu Airfield's hourly observations (0800hrs to 1600hrs), southeasterly winds were most dominant during the month, followed by easterly and then southerly winds. Wind strength ranged from light to moderate breeze, with calm winds observed 6.5% of the time.



*Figure 7d:* For Matei Airfield's hourly wind observations (0800hrs to 1600hrs), southeasterly winds were dominant followed by easterly and then southerly winds. Wind strength ranged from light to fresh breeze, with calm winds observed 5.2% of the time.

# 8. SEA SURFACE TEMPERATURE (SST)



### Figure 8:

Warmer than normal sea surface temperature anomalies were observed across most of the Fiji Waters, with anomalies 1.0-1.5°C observed west of Viti Levu and north west of Vanua Levu.

Source: <a href="https://oceanportal.spc.int/">https://oceanportal.spc.int/</a> portal/app.html#climate

# 9. CLOUD COVER 0 30S 60S 90S 120E 150E 180 150W 120W 90W 60W 30W 0

Base Period: 1991-2020

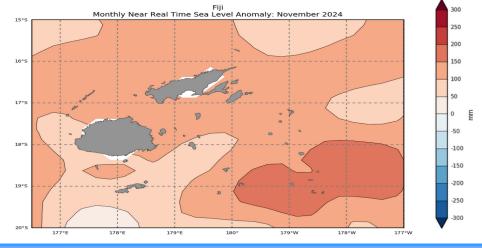
### Figure 9:

Above normal cloud cover was present over the Fiji Group during November (Fiji in red circle).

Source: <a href="http://www.esrl.noaa.gov/psd/map/clim/olr.shtml">http://www.esrl.noaa.gov/psd/map/clim/olr.shtml</a>

# 10. SEA LEVEL

NOAA/PSL

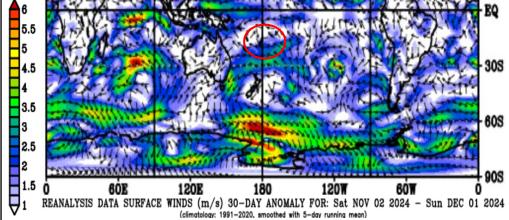


### Figure 10:

Above normal sea level anomalies persisted across most of the Fiji Waters during November.

Source: <a href="https://oceanportal.spc.int/portal/app.html#sealevel">https://oceanportal.spc.int/portal/app.html#sealevel</a>

# 11. WIND ANOMALIES



### Figure 11:

South-easterly winds were observed over the Fiji Group during the month (base period: 1991-2020) (Fiji in red circle).

Source: https:// www.esrl.noaa.gov/psd/map/ images/rnl/ sfcwnd\_30b.rnl.html

# 12. FLASH FLOODING: 11th, 13th, 26th and 30th.

Heavy rainfall led to flash floods at low-level crossings in low lying areas of the Central and Eastern Divisions on the 13<sup>th</sup>, as well as in the Central Division on the 11<sup>th</sup>, 26<sup>th</sup>, and 30<sup>th</sup>. The 24-hour rainfall of 87mm at Laucala Bay on the 25<sup>th</sup> caused road surface flooding along Walu Bay in Suva on the 26<sup>th</sup>. Similarly, significant 24-hour rainfall of 112mm at Koronivia and 100mm at both RKS Lodoni and Nausori Airport resulted in flash flooding in parts of the Central Division on the 30<sup>th</sup>. Flash flooding led to the closure of several low-level crossings and made some areas inaccessible.



Figure 12a: Waiwatu Crossing (Navulokani Road) on the 11<sup>th</sup>. Source: Fiji Roads Authority.



Figure 12b: Matainasau Crossing (Wailao Road) on the 11<sup>th</sup>. Source: Fiji Roads Authority.



Figure 12c: Vatuwaqa Crossing on the 13<sup>th</sup>. Source: Fiji Roads Authority.



Figure 12d: Waima Crossing on the 13<sup>th</sup>. Source: Fiji Roads Authority.



Figure 12e: Waioli Crossing on the 13<sup>th</sup>. Source: Fiji Roads Authority.



Figure 12f: Vatulili Crossing on the 13<sup>th</sup>. Source: Fiji Roads Authority.



Figure 12g: Road Surface flooding along Walu Bay in Suva on the 26<sup>th</sup>. Source: Fiji Sun.



Figure 12h: Naboro Cocoa Road crossing on the 30<sup>th</sup>. Source: Fiji Roads Authority



Figure 12i: Wairua crossing on the 30th. Source: Fiji Roads Authority

# **EXPLANATORY NOTES**

**Anomalies** - denote the departure of an element (rainfall, temperature, sea surface temperature, cloud cover, sea level and wind) from its long-period average value for a particular location.

**Trough** - an elongated area of low atmospheric pressure that is associated with a cyclone, or low. Sometimes referred to as a 'trough of low pressure'.

Rain - Liquid precipitation in the form of water droplets. Rain falls from dense, continuous clouds, called 'stratiform' clouds.

**Shower** - precipitation from individual clouds, often characterised by the sudden beginning or ending. Showers fall from 'lumpy looking', 'cauliflower' clouds, called 'cumuloform' clouds.

**Trade Winds** - the trade winds are the east to southeasterly winds (in the Southern Hemisphere) which affect tropical and subtropical regions.

**High pressure systems** or anticyclones are atmospheric circulations that rotate anti-clockwise in the Southern Hemisphere. Anticyclones are areas of higher pressure and are generally associated with lighter winds and fine and settled conditions.

Low pressure systems or mid-latitude cyclones are atmospheric circulations that rotate clockwise in the Southern Hemisphere (anti-clockwise in the Northern Hemisphere). Cyclones are areas of lower pressure and generally associated with stronger winds, unsettled conditions, cloudiness and rainfall.

Sea Surface Temperature (SST) - the temperature of the water's surface. It is usually measured using buoys, ship data, and satellites.