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Fiji Climate Summary December 2022

ISO 9001:2015 certified Climate Services

Issued: January 9, 2023 Next Issue: February 7, 2023

Since: August 1980*

Volume 43 : Issue 12

IN BRIEF

Typical La Niña event rainfall pattern continued to be observed at most parts of the country during the month.

During December, troughs of low pressure, broad north-west and easterly winds were dominant, contributing to wetter than normal conditions observed. Generally *above average* to *well above average* rainfall was recorded during the month. There were two (2) episodes of flash flooding recorded during the month.

Overall, out of the 24 rainfall monitoring stations that reported in, in time for the compilation of bulletin, 7 stations recorded *below average* rainfall, 4 *average*, 7 *above average*, and 6 recorded *well above average* rainfall (Table 2, Figures 1-5).

The highest monthly rainfall of 754.5mm was observed at Nadarivatu, followed by Penang Mill with 509.6mm, Ono-i-Lau with 506.2mm, Rarawai Mill with 500.8mm, Yaqara with 475.5mm, Monasavu with 470.9mm, Sigatoka with 470.5mm, Tavua with 453.5mm, Lomaivuna with

426.0mm, Nacocolevu with 424.8mm and Keiyasi with 419.0mm.

On temperatures, the highest day-time temperature of 37.2° C was recorded at Yasawa-i-Rara on the 4th, followed by RKS Lodoni with 36.0°C on the 2nd, Keiyasi with 35.5°C on the 20th and Korolevu with 35.4°C on the 21st.

The coolest night-time temperature of 14.3°C was recorded at Nadarivatu on the 17th, followed by Monasavu with 16.8°C on the 18th, Keiyasi with 19.0°C on the 16th and Labasa Airport with 19.5°C on the 10th.

South-easterly winds were dominant at Nadi Airport while north-westerly winds were the most observed winds at Nausori Airport during December (Figure 8).

Warmer than normal sea surface temperature anomalies were observed across most of the Fiji Group during the month (Figure 9).

2. WEATHER PATTERNS

The weather in December was mostly influenced by troughs of low pressure, broad northwest and easterly winds.

A moist northerly wind flow prevailed over the country on the 1st day of the month bringing some showers over the interior and northern parts of the larger islands. Some showers continued to prevail over the interior and northern parts of the larger islands. Winds became predominantly southerly thereafter and became southeast on 5th bringing some showers over the interior and eastern parts of the larger islands. A trough of low pressure affected the southern parts of the country from the south on the 6th and gradually spread to the rest of Fiji till the 7th with occasional showers over most places. Another trough of low pressure affected the country from the southwest of Fiji on the 8th moving over the country till the 10th with occasional rain and isolated heavy falls over northern and eastern parts of Fiji.

TD01F also developed over southern Lau waters on the 10th and later dissipated to the south on the same day. The associated trough of low pressure brought occasional rain over most places on the 11th and 12th with isolated thunderstorms with heavy falls. Rain cleared from the west midmorning on the 13th and clearing the rest of the country by the afternoon with fine weather.

A south to southwest wind flow prevailed over the country on the 14th with isolated showers experienced over the interior and southern parts of the larger islands with fine weather prevailing elsewhere. A southeast wind flow prevailed over Fiji from the 15th till the 19th with mostly fine weather across the country apart from brief showers over the interior and eastern parts of the larger islands. Winds turned easterly on 20th and became predominantly northeast on 21st and 22nd resulting in some showers over the interior and eastern parts of the larger islands. Active rain bands from a trough of low pressure to the west of Fiji affected the country from the west on the 23rd with occasional rain over most places with isolated heavy falls till the 25th. A moist north to northeast wind flow prevailed over Fiji on the 26th and 27th bringing some showers over the interior and eastern parts of the larger islands. Active rain bands from a trough of low pressure to the west of Fiji accompanied by the moist northwest winds affected the country from the west on the 28th till the 31st with occasional rain over most places with isolated heavy falls mostly over the Western Division. The weather for Rotuma was affected by a series of troughs of low pressure which brought occasional showers and few thunderstorms. The southeast trades and moist easterlies also dominated the island.

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

RAINFALL

Typical wet season rainfall continued to be experienced at most parts of the country during the month. There were generally above average to well above average rainfall recorded across the country. The exceptions were at Navua, Nausori Airport, Koronivia, Udu Point, Matei Airfield, Lakeba and Rotuma which recorded below average rainfall. On the other hand, Viwa, Nacocolevu, Tavua, Yaqara, Matuku and Ono-i-Lau recorded twice their normal monthly rainfall.

Overall, out of the 24 rainfall monitoring stations that recorded in, in time for the compilation of bulletin, 7 recorded below average rainfall, 4 average, 7 above average, and 6 recorded well above average rainfall (Table 2, Figures 1-5).

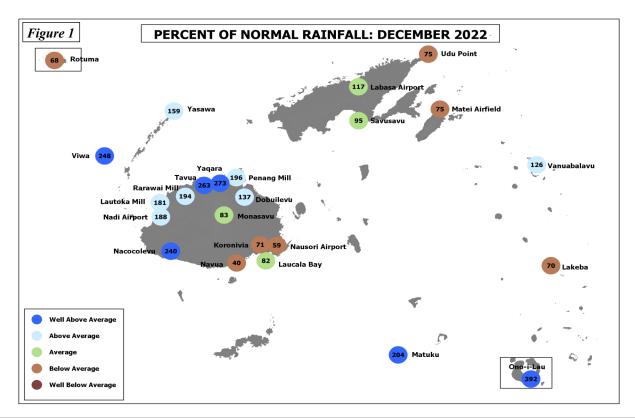
The highest monthly rainfall of 754.5mm was observed at Nadarivatu, followed by Penang Mill with 509.6mm, Ono-i-Lau with 506.2mm, Rarawai Mill with 500.8mm, Yaqara with 475.5mm, Monasavu with 470.9mm, Sigatoka with 470.5mm, Tavua with 453.5mm, Lomaivuna with 426.0mm, Nacocolevu with 424.8mm and Keiyasi with 419.0mm. On the other hand, Saqani recorded the month's lowest total monthly rainfall of 63.5mm, followed by Navua with 139.0mm, Lakeba with 141.7mm, Nausori Airport with 157.7mm, Koronivia with 181.8mm, Savusavu Airfield with 198.9mm, Rotuma with 206.9mm, Korolevu with 218.5mm and Matei Airfield with 221.1mm (Table 2).

A trough of low pressure brought occasional rain and isolated thunderstorms with heavy falls from the 11th to 13th, which resulted in Ono-i-Lau recording its highest 24-hour rainfall of 131.9mm on the 11th, Rarawai Mill, Nadarivatu and Toge recording 120.0mm, 130.5mm and 165.5mm on the 12th, respectively. During this period, flash floods occurred along the Sigatoka to Rakiraki corridor low-lying and flood prone areas.

Active rain bands from a trough of low pressure to the west of Fiji accompanied by moist northwesterly winds affected the country from 28th till the 31st, which resulted in significant 24-hour rainfall of 131.5mm at Tavua, 110.5mm at Lautoka Mill, 101.5mm at Rarawai Mill and 101.0mm at Nadarivatu, all on the 29th. This led to flash flooding across the Western Division.

Nadarivatu recorded the highest number of rain days (rainfall ≥0.1mm) with 27 days, followed by Yasawa-i-Rara, Labasa Airport and Monasavu, with 25 days, Keiyasi, Korolevu and Wainikoro, with 24 days, Nacocolevu and Matuku both with 23 days. Consequently, Lautoka Mill recorded the least number of rain days with 13 days, followed by Momi with 14 days, Saqani with 16 days and Udu Point with 17 days.

Tavua TB3 rain gauge recorded its highest December total monthly rainfall since observations began in 2009.



Normal: Long term average from 1981 to 2010
Well Below Average: Rainfall less than 40% of normal
Below Average: Rainfall between 40 to 79%
Rain Day: Rainfall ≥ 0.1mm

Average: Rainfall between 80 to 119% Above Average: Rainfall between 120 to 199% Well Above Average: Rainfall greater than or equal to 200% of normal

4. **AIR TEMPERATURES**

A. **Maximum Day-time Air Temperatures**

Above normal day-time air temperatures were observed at Near normal to above normal night-time temperatures were most parts of the country during the month. Out of the 22 climate stations that reported in time for the analysis of data, 16 recorded anomalies at around $\geq +0.5$ °C and 6 with anomaly within ± 0.5 °C.

The warmest days on average were recorded at Viwa with 34.7°C, followed by RKS Lodoni with 33.9°C, Yasawa-i-Rara with 33.0°C, Korolevu with 32.8°C, Keiyasi with 32.7°C, Sagani with 32.6°C, Labasa Airport with 32.5°C and Savusavu Airfield with 32.1°C. Consequently, Nadarivatu recorded the coolest days on average with 25.6°C, followed by Monasavu with 26.3°C, Matuku with 30.3°C, Vaturekuka (Labasa) with 30.8°C, Ono-i-Lau with 30.9°C, and Nacocolevu with 31.0°C.

Warm and humid temperatures were experienced during the first week of the month. The highest day-time temperature observed during the month was recorded at Yasawa-i-Rara with 37.2°C on the 4th, followed by RKS Lodoni with 36.0° C on the 2nd, Keiyasi with 35.5°C on the 20th, Korolevu with 35.4°C on the 21st, Sigatoka with 34.8°C on the 2nd, Ono-i-Lau with 34.5°C on the 27th, Vunisea with 34.4°C on the 21st and Navua with 34.3°C on the 21st. On the other hand, the coolest day-time temperature of 21.9°C was observed at Nadarivatu on the 31st, followed by Monasavu with 22.1°C on the 18th, Ono-i-Lau with 25.7°C on the 11th Keiyasi with 25.9°C on the 31st, Sigatoka with 26.0°C on the 31st and Nacocolevu with 26.9°C on the 11th.

Savusavu Airfield recorded its highest December monthly average day time temperature since observations began in 1956 (Table 1).

B. Minimum Night-time Air Temperatures

recorded over most parts of the country during the month. Of the 21 stations, 5 recorded anomalies $\geq +0.5$ °C, 8 within ± 0.5 °C, and 8 with anomaly ≤ -0.5 °C.

Volume 43 : Issue 12

The coolest days on average was at Nadarivatu with 18.0°C, followed by Monasavu with 19.0°C, Vaturekuka (Labasa) with 22.0°C, Keiyasi and Wainikoro both with 22.1°C, Navua with 22.3°C, Labasa Airport, Savusavu Airfield, Lakeba and Sigatoka all with 22.5°C. Consequently, on average, the warmest night-time temperatures were observed at Viwa with 25.6°C, followed by Lomaivuna with 25.1°C, RKS Lodoni with 25.0°C, Ono-i-Lau and Lautoka Mill both with 24.4°C and Sagani and Laucala Bay (Suva) both with 24.3°C.

On daily temperatures, there were couple of days at Nadarivatu that temperatures went below 17.0°C, with the lowest of 14.3°C recorded on the 17th. Monasavu followed with 16.8°C on the 18th, Keiyasi with 19.0°C on the 16th, Labasa Airport with 19.5°C on the 10th, Nacocolevu and Sigatoka both with 19.7°C on the 11th and 16th, respectively and Navua with 19.9°C on the 17th. On the other hand, the warmest night-time temperature of 30.5°C was recorded at Lomaivuna on the 19th, followed by Vunisea with 27.3°C, on the 4th, Ono-i-Lau and RKS Lodoni both with 26.8°C on the 27th, and 26th, respectively, Levuka with 26.3°C on the 21st, Viwa with 26.2°C on the 5th, Rotuma with 26.1°C on the 20th and Udu Point with 25.7°C on the 6th.

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

TABLE 1. CLIMATE RECORDS ESTABLISHED IN DECEMBER 2022

<u>Element</u>	<u>Station</u>	Observed (record)	<u>On</u>	<u>Rank</u>	Previous (record)	<u>Year</u>	Records Began
Monthly Rainfall	Tavua	453.5mm	1	New High	334.0mm	2016	2009
Monthly Average Max Temperature	Savusavu Airfield	32.1°C	1	New High	31.4°C	1998	1956

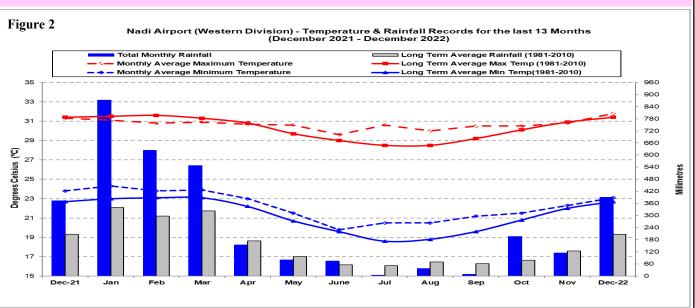
Note: All comparisons in this summary are with respect to "Climatic Normals". This is defined to be the average climate condition over a 30-year period. Fiji uses 1981-2010 period as its "climatic normal" period.

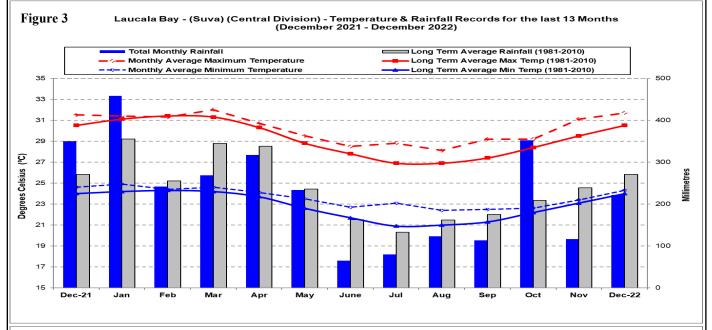
TABLE 2. DAILY CLIMATE REPORTING SITES: SUMMARY FOR DECEMBER 2022

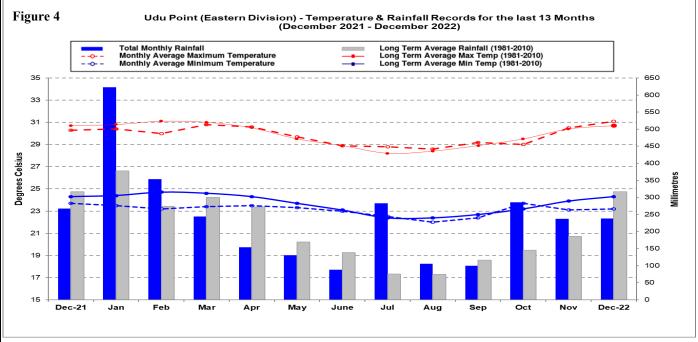
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AIR TEMPERATURES
                              RAINFALL
                                                                                               SUNSHINE
                        TOTAL
                                   RAIN MAX.
                                                        AVERAGE DAILY
                                                                               EXTREME
                                                                                                TOTAL
                                 *
                                   DAYS FALL
                                                    MAX. #
                                                               MIN.
                                                                            MAX.
                                                                                     MIN.
                                  %
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20.2
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                         MM
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                                                                      0.4 33.8
                                          92 31
                                                                                                      93
NADI AIRPORT
                                    19
                                                                                 22
                                                                                           12
                                                                                                204
                                          60 29
LAUCALA BAY
                        221.3
                                82 18
                                                   31.7
                                                          1.2 24.3
                                                                      0.3 33.5 19 22.5 11
                                                                                                153
                                                                                                      82
NACOCOLEVU RESEARCH 424.8 240 23
                                          63 29
                                                   31.0 -0.3 22.6
                                                                      0.7 34.0
                                                                                     19.7
ROTUMA ISLAND
                        206.9
                                68
                                    20
                                          44
                                              12
                                                   31.3
                                                          1.0 23.6 -1.1 32.1 20 21.8
                                                                                           23
                                                                                                202 110
                        363.5 248 19
227.7 159 25
                                                   34.7
                                                          1.4 25.6 0.6 34.0
VIWA (AWS)
                                          64 10
                                                                                   5 22.2
                                          35 23
                                                          2.1 22.8 -1.6 37.2
YASAWA-I-RARA
                                                   33.0
                                                                                   4 20.0 23
                                    17
                                           50
                                              23
                                                          0.4
                                                                                   6 21.0
UDU POINT
                        237.9
                                75
                                                   31.1
                                                                     -1.1 32.2
NABOUWALU
                                    STATION
                                              TEMPORARILY CLOSED
                                                                      0.3 34.0 20 19.5 10
                        296.8 117 25
LABASA AIRFIELD
                                          45 27
                                                   32.5
                                                          0.8 22.5
                                                   32.1
                                                                                     21.5
SAVUSAVU AIRFIELD
                        198.9
                                95 21
                                          54 12
                                                          2.0 22.5
                                                                     -0.8 34.0
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                        181.8
                                          36
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                                                                            33.8
KORONIVIA RESEARCH
                                          21 29
NAUSORI AIRPORT
                        157.7
                                 59 21
                                                   31.8
                                                          2.0 23.2
                                                                      0.3 33.1
                                                                                   6 20.0
                                40 18
83 25
                                          29 5
61 12
                                                          1.9 22.3
1.4 19.0
                                                                      0.5 34.3 21 19.9
0.4 28.3 8 16.8
NAVUA (AWS)
                        139.0
                                                   31.6
                                                                                           17
                                                          1.4
MONASAVU HYDRO DAM
                        470.9
                                                   26.3
FSC LAUTOKA MILL
                        362.6 181 13
                                         111 29
                                                   31.8
                                                          0.5 24.4
                                                                       1.0
                                                                           33.1 26 20.5
                                                   31.9 -0.5 U/S
FSC RARAWAI MILL
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                                         120 12
                                                                            33.4
                                                                                 20 U/S
                                                          1.1 22.6
1.4 22.8
                                                                     -1.0
                                                                                     20.5
FSC PENANG MILL
                        509.6 196
                                    18
                                         134
                                              14
                                                   31.9
                                                                            33.2
                                                          1.4 22.8 -1.1 32.4 31 20.9 13
1.7 22.6 -1.7 32.7 5 21.0 10
                        221.1
MATEI AIRFIELD
                                75 20
                                          40 23
                                                   31.1
                        233.7 126 19
141.7 70 19
                                          82
                                               9
                                                   31.4
VANUABALAVU
                                                                     -1.3
0.7
0.2
0.8
                                              13
LAKEBA
                                          36
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                                                                            33.0
                                                                                 19
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                        U/S
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                                                          2.6 23.9
VUNTSFA
                        291.8 204 23
506.2 392 22
475.5 273 21
                                          63
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1.8
                                                               24.2
24.4
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34.5 27 21.0
MATUKU
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                                                   30.3
                                                                           34.5 27 21.0 11
33.5 5 21.1 14
34.2 27 21.9 24
ONO-I-LAU
                                         132
                                              11
                                                   30.9
                                                               22.9
                                    21
                                          89 29
YAQARA AWS
                                                   31.5
                                          67 10
                                                               24.2
LEVUKA AWS
                        338.5
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                                                               22.1
25.1
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KEIYASI AWS
                        419.0
                                                   Ū/S
                                          88
                                                                            U/S
                                                                                     20.7
                                    22
LOMAIVUNA AWS
                        426.0
                                         131 12
                                                   25.6
                                                                            29.0
                                                                                  7 14.3 17
NADARIVATU AWS
                        754.5
                                    27
                                                               18.0
                                          47
77
                                                                                  2 23.2
5 21.0
2 19.7
RKS LODONI AWS
                                    22
                                              12
                                                   33.9
                        222.5
                                                               25.0
                                                                            36.0
                                                                                           16
                                              12
                        349.5
                                                               23.8
MOMI AWS
                                    14
                                                   31.4
                                                                            33.3
                                                                                           13
SIGATOKA AWS
                        470.5
                                    21
                                          69 29
                                                   31.3
                                                               22.5
                                                                            34.8
                                                               22.0
22.6
22.1
                                          58 27
                                                                            33.0
VATUREKUKA AWS
                        296.0
                                    19
                                                   30.8
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36 23
                                                                                 21 20.1 16
                                    24
                                                                            35.4
KOROLEVU AWS
                        218.5
                                                   32.8
WAINIKORO AWS
                        244.0
                                    24
                                                   32.0
                                                                            33.5
                                                                                 14 20.1
                         63.5
                                          13 10
                                                   32.6
                                                               24.3
                                                                                   7 22.5
SAQANI AWS
SEAQAQA TB3
                        U/S
DOBUILEVU TB3
                        356.5 137 20
NASINU TB3
                        255.0
                                          46
                                              27
                                    19
                        453.5 263 18
TAVUA TB3
                                          99
                                              30
                       TEMPERATURE( C) HUMIDITY WIND
                              DRY WET RH% VP
                      MEAN
                                (AVERAGE AT 9AM)
                                                       KT
NADI AIRPORT
                       27.5
                              28.2 24.7 75
LAUCALA BAY
                       28.0
                              28.9 25.5 76
                                               30.3
NACOCOLEVU RESEARC 26.8
                              28.9 26.0 80
                                               31.9
                       \bar{2}7.5
                              29.5 26.1 77
                                               31.8
ROTUMA ISLAND
                       30.2
VIWA AWS
                       27.9
27.2
                              29.0 26.3 81
29.2 25.8 76
YASAWA-I-RARA
                                                30.8
UDU POINT
                       MISSING OBSERVATIONS
NABOUWALU
LABASA AIRFIELD
                       27.5
                              29.5 25.6 73
                                               30.1
                       27.3
                              29.2 25.8 77
SAVUSAVU AIRFIELD
                                               31.2
                       27.3
27.5
                              28.4 25.5 80
28.3 25.3 78
KORONIVIA RESEARCH
                                                31.0
                                               34.1
NAUSORI AIRPORT
NAVUA (AWS)
                       27.0
MONASAVU HYDRO DAM 22.7
FSC LAUTOKA MILL 27.1
                              23.7 23.3
28.7 25.5
                                               28.5
30.7
FSC LAUTOKA MILL
                                          78
                        U/S
                              28.7
                                    24.9
                                               29.2
FSC RARAWAI MILL
                       27.3
27.0
                              28.5 25.3
28.9 25.7
28.9 25.7
29.2 25.7
                                               30.4
FSC PENANG MILL
                                          79
                                               31.5
MATEI AIRFIELD
                       27.0
                                          78
VANUABALAVU
                                               31.1
LAKEBA
                       26.9
                                                31.6
                       28.0
VUNISEA
MATUKU
                              28.3 25.2 78
                                                30.0
                              29.0 26.1 80
ONO-I-LAU
                                               32.1
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 (1981-2010). + :NUMBER OF DAYS WITH 0.1 MM OR MORE RAIN. * :PERCENT OF LONG-TERM AVERAGES.
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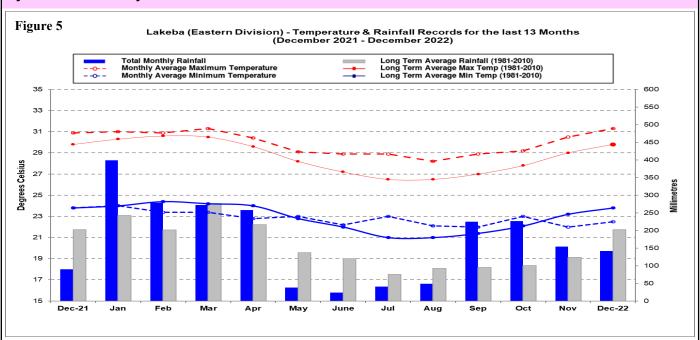
BLUE FONT: MISSING RECORDS OF LESS THAN OR EQUAL(≤) TO 5 DAYS. U/S: UNSERVICEABLE

4









5. DAILY RAISED PAN EVAPORATION

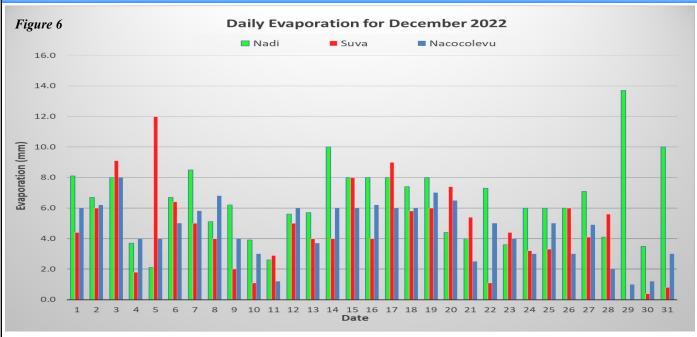


Figure 6: The total monthly raised pan evaporation at Nadi Airport, Laucala Bay (Suva) and Nacocolevu (Sigatoka) were 198.0mm, 142.2mm and 142.0, respectively. Nadi's highest daily evaporation was 13.7mm on the 29th, with Suva's highest daily evaporation of 12.0mm on 5th and Nacocolevu (Sigatoka) recorded its highest of 8.0mm on the 3rd.

6. SOLAR RADIATION

The Nadi solar radiation instrument became unserviceable during the month of December 2022.

7. WIND SUMMARY

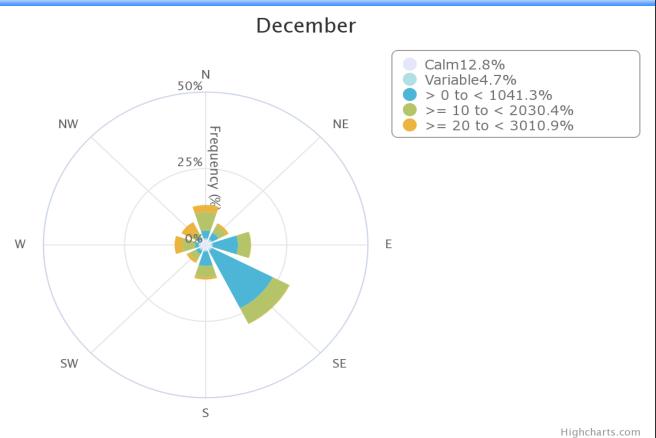


Figure 8a: Southeasterly winds were most dominant at Nadi Airport during the month, followed by easterly and northerly winds.

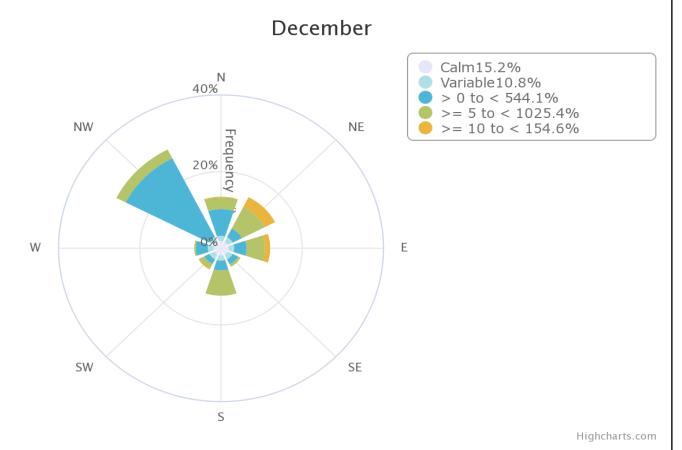


Figure 8b: Northwesterly winds were dominant at Nausori Airport, followed by northeasterly, then northerly winds.

8. SEA SURFACE TEMPERATURE (SST)

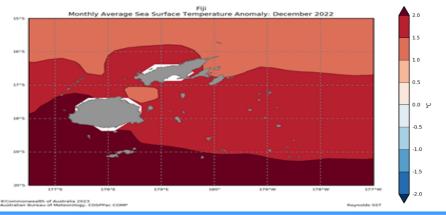


Figure 9:

Warmer than normal sea surface temperature anomalies were observed across most of the Fiji Waters, especially around Beqa, Vatulele, Kadavu and west of Viti Levu, extending to the Mamanuca Group.

Source: http://oceanportal.spc.int/portal/
app.html#climate

9. CLOUD COVER

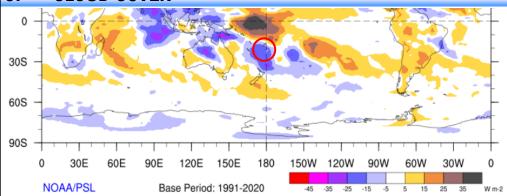


Figure 10:

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

Source: http://www.esrl.noaa.gov/psd/map/clim/olr.shtml

10. SEA LEVEL

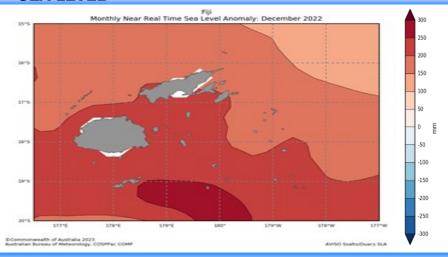


Figure 11:

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

Source: http://
oceanportal.spc.int/portal/
app.html#sealevel

11. WIND ANOMALIES

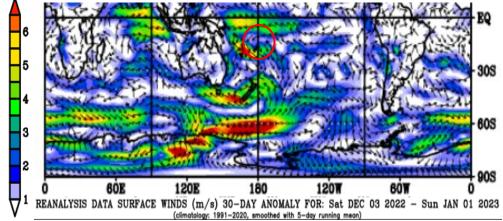


Figure 12:

Northerly wind anomalies were generally observed over the Fiji Group during the month (base period: 1981-2010) (Fiji in red circle).

Source: https:// www.esrl.noaa.gov/psd/map/ images/rnl/ sfcwnd_30b.rnl.html

8. FLASH FLOODING

Two episodes of flash flooding were recorded over the country during the month, in particular the Western Division.

The first episode of flash flooding occurred when an associated trough of low pressure brought occasional rain over most places from 11th until the 13th. Major flash floods occurred around low-lying areas in the Western Division, that is, from Sigatoka to Rakiraki. Significant 24-hour rainfall of 131.9mm was recorded for Ono-i-Lau on the 11th and 130.5mm at Nadarivatu with 165.5mm at Toge, both on the 12th respectively.

The second episode of flash flooding occurred from 28th to 31st when active rain bands from a trough of low pressure to the west of Fiji, accompanied by moist northwesterly winds affected the country. Localized heavy falls led to flash flooding in the Western Division, especially Ba, Sigatoka, Lautoka and Nadi areas on the 30th and 31st.

Over a 72-hour period, from 9am on the 29th December 2022 until 9am on the 1st January 2023, Toge recorded 245mm of rainfall, followed by Nadarivatu with 223mm, Rarawai Mill with 199mm, Nadi Airport with 197mm, Tavua with 195mm, Lautoka Mill with 179mm and Yaqara with 169mm (Figure 15).

In Nadi, Legalega, Nadi town, and parts of Korovuto were inundated with flash floods, while in Ba some of the Irish crossings and areas around Ba market were flooded on the 30th and 31st.

There was a reported drowning victim when a 6 year old boy drowned while trying to cross a flooded culvert at Togomasi in Nadi on the 31st.



Figure 13: Marinitawa Crossing in Ba on 30th December, 2022. Source: Fiji Roads Authority



Figure 14: Rising flood waters at the Navo Bridge in Nadi on 31st December, 2022. Source: fijivillage.

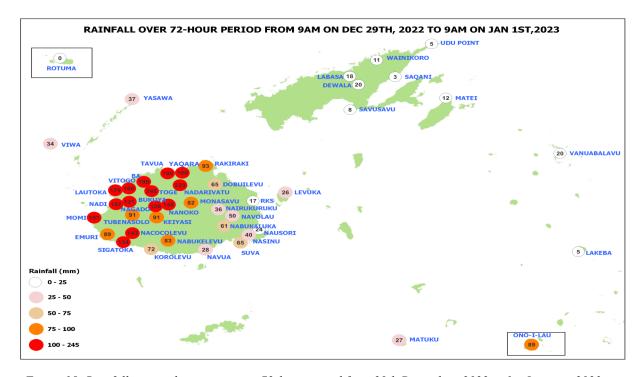


Figure 15: Rainfall across the country over 72-hour period from 29th December, 2022 to 1st January, 2023.