

#### IN BRIEF 1.

The amount of rain observed across the country during with 34.7°C on the 6<sup>th</sup>, Koronivia with 34.2°C on the 6<sup>th</sup>, March varied considerably, ranging from well below av- and Laucala Bay (Suva) with 34.1°C on the 6<sup>th</sup>. The lowerage to well above average rainfall. The month started off with the presence of Ex-TC Seru, resulting in local-ized heavy rainfall, with flash flooding reported in some 18.1°C on the 23<sup>rd</sup>, Lautoka with 19.0°C on the 30<sup>th</sup>, Vaparts of the Western Division.

Overall, out of the 25 rainfall monitoring stations that were analyzed, 1 station recorded well above average, 3 above average, 14 average, 6 below average, and 1 station with well below average rainfall (Table 2, Figures 1-5). The highest monthly rainfall of 789.5mm was recorded at Nadarivatu, followed by 481.0mm at Nasinu, 417.9mm at Koronivia, 413.4mm at Vunisea, 409.8mm at Nausori Airport, 403.8mm at Matuku, and 399.1mm at above normal cloud cover present over the country Ono-i-Lau.

ture of 36.4°C was observed at Korolevu on the 27<sup>th</sup>, followed by Yasawa-i-Rara with 35.7°C on the 23<sup>rd</sup>, Navua Kadavu (Figure 13a-13c).

#### 2. WEATHER PATTERNS

March, being a summer month in Fiji, experienced weather patterns largely driven by a series of lowpressure systems. These systems played a dominant role in shaping the month's weather, contributing to unsettled conditions across various parts of the country. The prevailing subtropical ridge and associated shifts in wind flow further added to the dynamic and varied weather seen throughout the month.

At the beginning of March, Ex-Tropical Cyclone (TC) Seru remained slow-moving southwest of Fiji. From March 1–3, an associated active trough brought southwesterly to north-westerly winds, affecting most parts of the country. As the active trough dissipated on March 4, a series of weak troughs linked to Ex-TC Seru approached from the south until March 6. The center of Ex-TC Seru drifted over Fiji on March 7 and gradually elongated within a trough by March 8. Cloud and showers continued to impact the northern and eastern parts of the country until March 11 with a predominant southeast wind flow over the country. Meanwhile, in the western division, afternoon showers and thunderstorms were prevalent throughout this period, with severe thunderstorms recorded on March 7, highlighting the localized intensity of severe weather impacts over Fiji. Southeast winds transitioned to easterly winds from

est night-time temperature of 16.4°C was recorded at nuabalavu with 19.5°C on the 21st, and Vunisea with  $20.0^{\circ}$ C on the  $3^{rd}$ .

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

Warmer than normal sea surface temperature anomalies were observed across the Fiji Waters (Figure 8), with (Figure 9). Above normal sea level anomalies persisted during March (Figure 10). Flash flooding was experi-On temperatures, the month's highest day-time tempera- enced in some parts of the Western Division (Figure 12a -12c). Coastal inundation occurred in Rakiraki village,

> March 12 onward. During this period, weak troughs of low pressure intermittently developed, with one affecting the eastern parts of Fiji from March 13–15 and another redeveloping over the same region from March 16–18. Severe thunderstorms affected parts of Viti Levu and Vanua Levu during this period. Another weak trough approached from the southwest on March 18, resulting in unsettled conditions across the country until March 21. A more pronounced trough of low pressure affected the group from 21st to 23rd. Easterly wind flow dominated the weather from March 21-23 with trade showers prevailing over the windward side of the larger islands. A trough of low pressure developed near the northwest of Fiji and affected the group until March 25. Subsequently, the trough drifted over the eastern and southern parts of the country, influencing weather until March 29. Afterward, clouds and showers associated with the trough affected most parts of Fiji until the trough drifted north on March 31, whereby a southeast wind flow prevailed across the group.

> Weather conditions over Rotuma were primarily influenced by easterly wind flow, convergence zone and series of low-pressure systems active near the island. The dry days were dominated by easterly or southeast winds.

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

### 3. RAINFALL

March rainfall varied considerably, ranging from *well* below average to well above average. Majority of the stations experienced average rainfall, while Ono-i-Lau was the lone station that recorded more than twice its normal monthly rainfall.

On the contrary, slightly drier than usual conditions were observed at most parts of the Western Division; Nadi Airport, Lautoka, Rarawai Mill (Ba), Monasavu and Viwa, as well as Udu Point. Penang Mill was the lone station that recorded significantly drier than normal conditions. Overall, out of the 25 rainfall monitoring stations that were analyzed during the compilation of this bulletin, 1 recorded *well above average*, 3 *above average*, 14 *average*, 6 *below average*, and 1 station with *well below average* rainfall (Table 2, Figures 1-5).

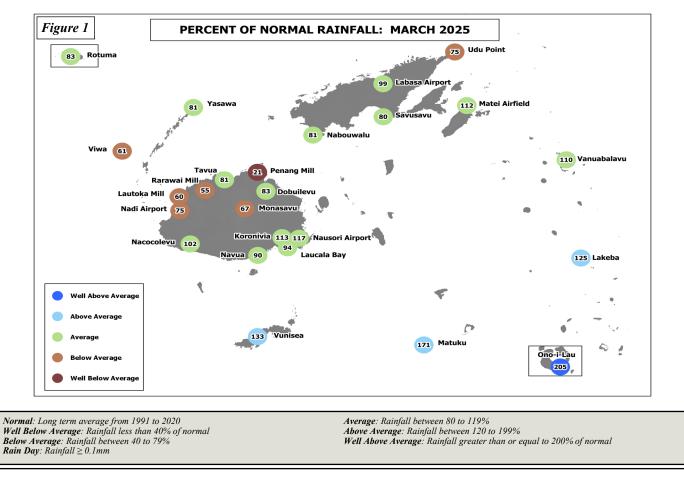
The highest monthly rainfall of 789.5mm was recorded at Nadarivatu, followed by 481.0mm at Nasinu, 417.9mm at Koronivia, 413.4mm at Vunisea, 409.8mm at Nausori Airport, 403.8mm at Matuku, and 399.1mm at Ono-i-Lau. On the other hand, Penang Mill recorded the month's lowest total monthly rainfall of 73.9mm, followed by Korolevu with 108.5mm, Viwa with 156.1mm, and Savusavu Airfield with 171.1mm (Table 2).

The highest 24-hour rainfall of 142.0mm was recorded at Nausori Airport on the 12<sup>th</sup>, followed by Vunisea with 138.0mm on the 12<sup>th</sup>, Nasinu with 135.5mm on the 12<sup>th</sup>, Nadarivatu with 132.5mm on the 6<sup>th</sup>, Navua with 109.0mm on the 12<sup>th</sup>, Matei Airfield with 108.0mm on

the 8<sup>th</sup>, and Koronivia with 100.0mm on the 7<sup>th</sup>. From 21<sup>st</sup> to 23<sup>rd</sup> March, significant rainfall exceeding 50mm within 24 hours was recorded over the eastern parts of the country, especially over the Lau and Lomaiviti groups.

Nacocolevu recorded the highest number of rain days (rainfall≥0.1mm) with 29 days, followed by Vunisea, Nadarivatu and Labasa Airfield all with 27 days, Monasavu with 26 days, Koronivia and Ono-i-Lau both with 25 days, Nabouwalu with 24 days, and Matuku and Savusavu Airfield both with 23 days. Consequently, Penang Mill recorded the least number of rainfall days with 13 days, followed by Korolevu and Momi both with 15 days, Lakeba with 16 days, Lautoka and Nadi Airport both with 17 days, and Laucala Bay (Suva) and Matei Airfield both with 18 days.

There were no new rainfall records established during the month.



#### 4. **AIR TEMPERATURES**

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

peratures were observed across the country during the were recorded at majority of the climate stations during month. Out of the 22 climate stations that reported in the month. For the 22 stations that reported in, 5 recorded time for the analysis of data, 6 recorded anomalies anomalies  $\geq +0.5^{\circ}$ C, 13 within  $\pm 0.5^{\circ}$ C, and 4 with anom- $\geq$ +0.5°C, 15 within  $\pm$ 0.5°C and 1 station with anomaly of  $\leq$ -0.5°C.

On average, the warmest days were recorded at Labasa Airfield with 32.4°C, followed by Viwa with 32.3°C, Yasawa-i-Rara with 32.0°C, Korolevu with 31.9°C and Penang Mill with 31.8°C. Consequently, Nadarivatu recorded the coolest days on average with 26.4°C, followed Consequently, on average, the warmest nights were obby Monasavu with 26.8°C, Ono-i-Lau with 30.0°C, Nacocolevu with 30.2°C, Matuku with 30.3°C, and Vunisea and Vanuabalavu both with 30.7°C.

was observed at Korolevu on the 27th, followed by ed at Nadarivatu on the 22nd, followed by Monasavu with Yasawa-i-Rara with 35.7°C on the 23<sup>rd</sup>, Navua with 18.1°C on the 23<sup>rd</sup>, Lautoka with 19.0°C on the 30<sup>th</sup>, Va-34.7°C on the 6<sup>th</sup>, Koronivia with 34.2°C on the 6<sup>th</sup>, Lau- nuabalavu with 19.5°C on the 21<sup>st</sup>, Vunisea with 20.0°C cala Bay (Suva) with 34.1°C on the 6<sup>th</sup>, and Savusavu on the 3<sup>rd</sup>, and Matei Airfield and Korolevu both with Airfield and Labasa Airfield both with 34.0°C on the 6<sup>th</sup> and 16<sup>th</sup>, respectively.

The coolest daytime temperatures were observed at Monasavu with 22.1°C on the 12<sup>th</sup>, followed by Nadarivatu with 23.1°C on the 2<sup>nd</sup>, Navua with 26.3°C on the 10<sup>th</sup>, Laucala Bay (Suva) with 26.8°C on the 28<sup>th</sup>, and Vanuabalavu with 27.0°C on the 9<sup>th</sup>.

Monasavu recorded its highest daily maximum temperature of 30.6°C since observations began in 1980 (Table 1).

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

Generally, near normal to above normal day-time tem- Below normal to above normal night-time temperatures alies  $\leq -0.5^{\circ}$ C.

> The coolest nights on average were at Nadarivatu with 18.8°C, followed by Monasavu with 20.3°C, Vanuabalavu with 22.2°C, Matei Airfield with 22.4°C, Korolevu and Labasa Airfield both with 22.5°C, Vunisea with 22.8°C, and Sigatoka, Navua and Lakeba all with 23.1°C. served at Udu Point with 25.6°C, Viwa with 25.5°C, Rotuma with 25.4°C, Nabouwalu with 24.8°C and Laucala Bay (Suva) with 24.7°C.

The month's highest day-time temperature of 36.4°C The lowest night-time temperature of 16.4°C was record- $20.7^{\circ}$ C on the 11<sup>th</sup> and  $22^{nd}$ , respectively.

> The warmest night-time temperatures were recorded at Viwa with 27.3 °C on the 1<sup>st</sup>, followed by Rotuma with 27.0 °C on the 8<sup>th</sup>, Udu Point with 26.9 °C on the 3<sup>rd</sup>, and Nabouwalu with 26.8°C on the 26<sup>th</sup>.

Vanuabalavu recorded its lowest daily minimum temperature of 19.5°C since observations began in 1985 (Table 1).

<u>Element</u>	<u>Station</u>	Observed (record)	<u>On</u>	<u>Rank</u>	Previous (record)	<u>Year</u>	<u>Records</u> <u>Began</u>
Daily Maximum Temperature	Monasavu	30.6°C	23 <sup>rd</sup>	New High	30.4°C	2004	1980
Daily Minimum Temperature	Vanuabalavu	19.5°C	21 <sup>st</sup>	New High	19.6°C	1997	1985

# TABLE 1. CLIMATE RECORDS ESTABLISHED IN MARCH 2025

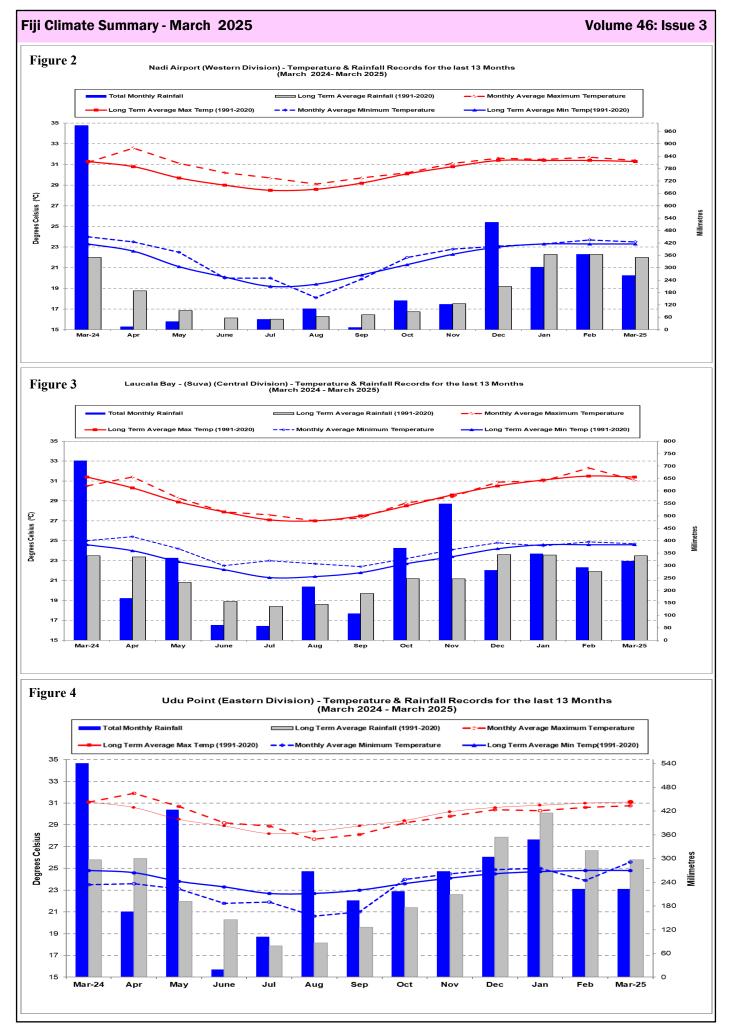
Note: All comparisons in this summary are with respect to "Climatic Normals". This is defined to be the average climate condition over a 30-year period. Fiji uses 1991-2020 period as its "climatic normal" period.

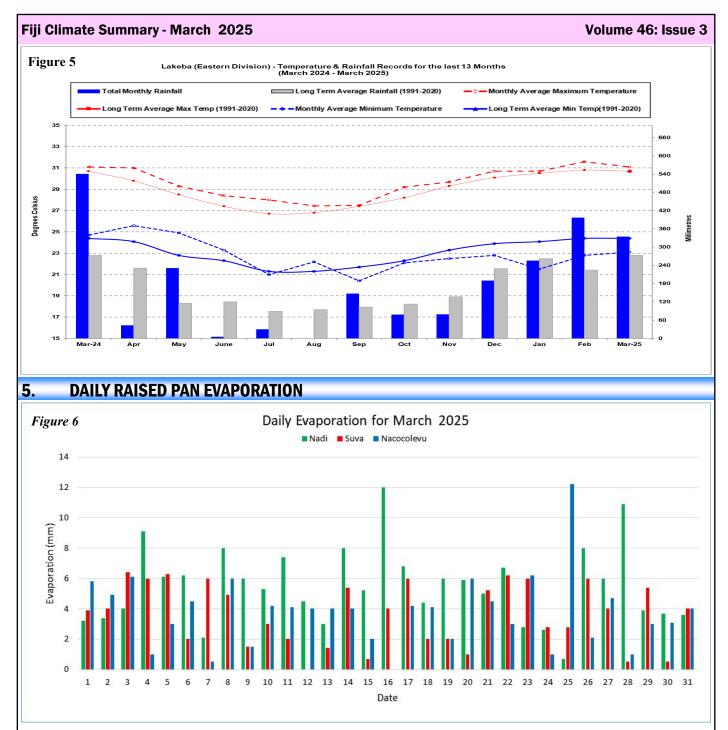
### Volume 46: Issue 3

# TABLE 2. DAILY CLIMATE REPORTING SITES: SUMMARY FOR MARCH 2025

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(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

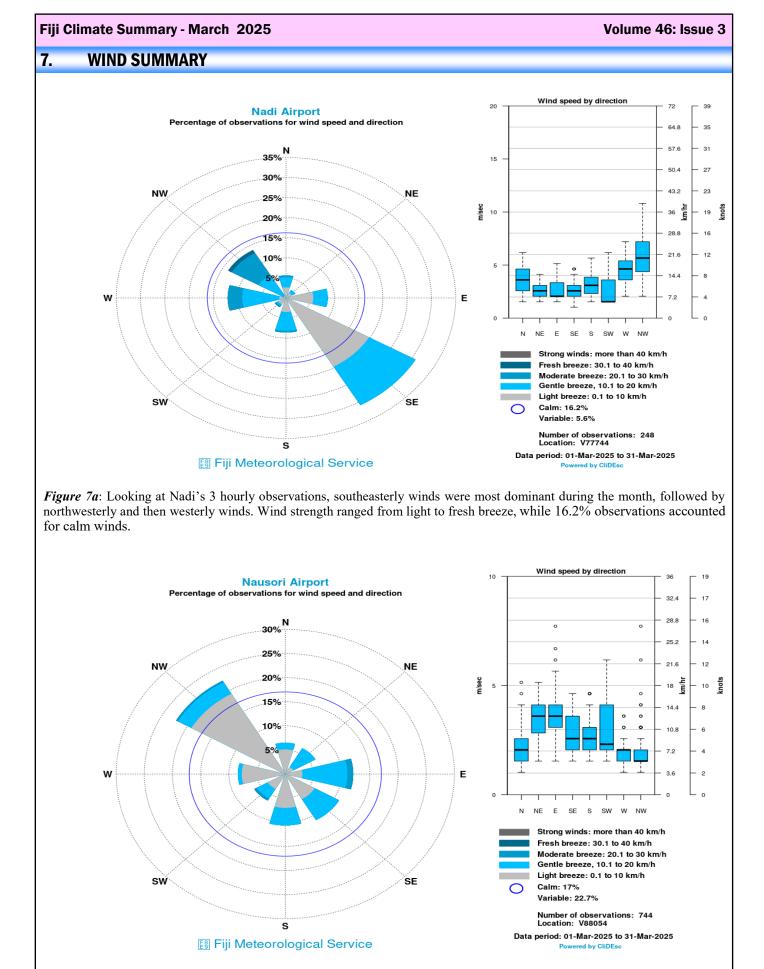




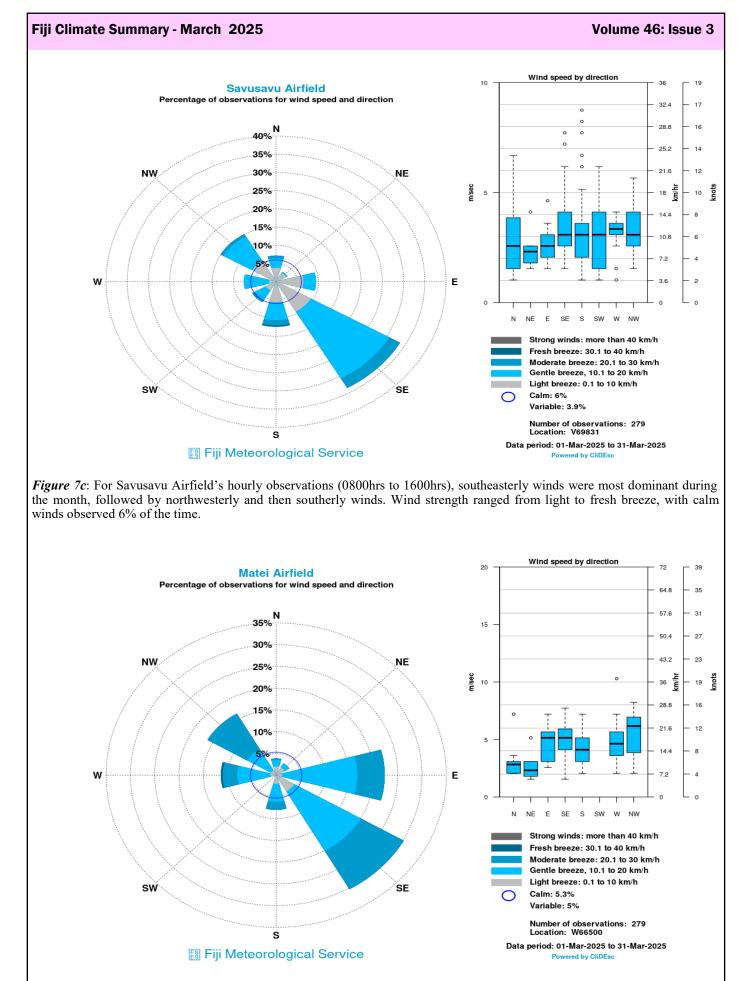
**Figure 6:** The total monthly raised pan evaporation at Nadi Airport, Laucala Bay (Suva) and Nacocolevu (Sigatoka) were 170.5mm, 111.9mm and 116.7mm, respectively. Nadi's highest daily evaporation was 12.0mm on the 16<sup>th</sup> with Suva's highest daily evaporation of 6.4mm on the 3<sup>rd</sup>, and Nacocolevu (Sigatoka) recorded its highest of 12.2mm on the 25<sup>th</sup>.

# 6. SOLAR RADIATION

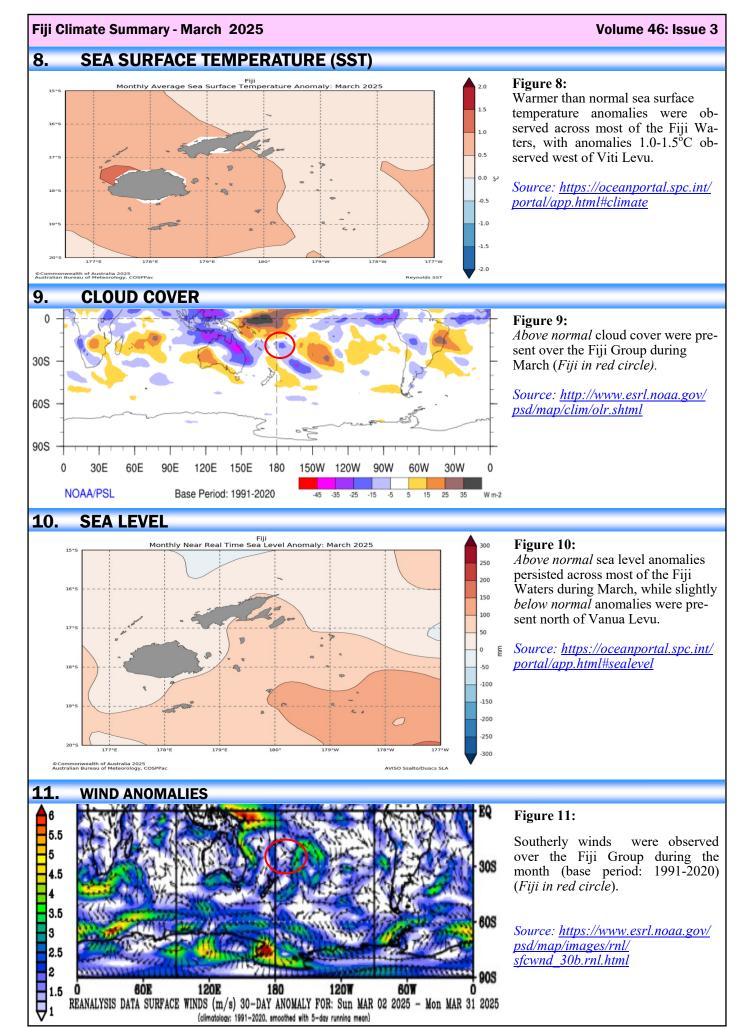
The Nadi solar radiation instrument was unserviceable during the month of March 2025.



*Figure 7b*: For Nausori Airport's hourly wind observations, northwesterly winds were most dominant during the month, followed by easterly and then southeasterly winds. Wind strength ranged from light to moderate breeze, while 17% observations accounted for calm winds.



*Figure 7d:* For Matei Airfield's hourly wind observations (0800hrs to 1600hrs), southeasterly winds were dominant followed by easterly and then northwesterly winds. Wind strength ranged from light to fresh breeze, with calm winds observed 5.3% of the time.



# 12. FLASH FLOODING: 2<sup>nd</sup>.

At the beginning of the month, localized heavy rainfall was observed on the 2<sup>nd</sup>, resulting in flash flooding in lowlying areas of the Western Division, particularly in Ba and Lautoka. As a result, several low level crossings were inundated, leading to their closure and making certain areas inaccessible.



Figure 12a: Vaivai Rd, 1st Crossing, Lautoka, on the 2nd. Source: Fiji Roods 2nd. source: Fiji Roads Authority. Authority.

Figure 12b: Vunisamaloa, Ba on the

Figure 12c: Saru Back Rd, Lautoka on the 2nd. Source: Fiji Roads Authority.

# 13. COASTAL INUNDATION: 12th.

A massive coastal inundation took place at Rakiraki village in Kadavu on 12<sup>th</sup> March. Seawater encroached the houses and agriculture areas near the coast of Rakiraki village (Figure 13a-13c).



Figure 13a: Coastal area in Rakiraki village, Kadavu inundated with seawater, on the 12th. Source: The Fiji Times.



Figure 13b: Houses in Rakiraki village, Kadavu inundated with seawater, on the 12th. Source: The Fiji Times.



Figure 13c: Seawater encroached agriculture and inland house areas in Rakiraki village, Kadavu, on the 12th. Source: The Fiji Times.

### **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.