FIJI METEOROLOGICAL SERVICE Private Mail Bag (NAP0351) Nadi Airport, Fiji Ph: +679 6724888 Fax: +679 6724050 Email: climate@met.gov.fj Also online at: http://www.met.gov.fj	Fiji Climate Summary March 2022	ISO 9001:2015 certified Climate Services
Issued: April 7, 2022 Next Issue: May 6, 2022	Since : August 1980*	Volume 43 : Issue 03
1. IN BRIEF		
A La Niña event continues in the Moist easterlies, southeast trade v	with 34.3°C on the 4 <sup>th</sup> and Sig	$1.8^{\circ}$ C on the 16 <sup>th</sup> , Korolevu atoka with 34.2°C on the 6 <sup>th</sup> .

of troughs of low pressure systems affected the country during the month. Typical wet season rainfall continued to be experienced at most parts of the country, with generally *average* to *well above average* rainfall recorded during the month. However, drier than usual conditions were experienced at Dobuilevu, Monasavu, Nausori Airport, Laucala Bay and Rotuma.

Overall, out of the 25 rainfall monitoring stations, 3 recorded *well above average* rainfall, 10 above average, 7 average and 5 stations recorded *below average* rainfall.

A trough of low pressure affected the country at the end of the month. Significant 24-hour rainfall of 104mm was recorded at Vanuabalavu and 102mm at Yasawa-i-Rara, both on the 31<sup>st</sup>.

On temperatures, the highest day-time temperature of  $35.9^{\circ}$  C was recorded at Levuka on the  $8^{\text{th}}$ , followed by Navua with  $35.4^{\circ}$ C on the  $22^{\text{nd}}$ , Saqani with  $35.2^{\circ}$ C on the  $15^{\text{th}}$ ,

# 2. WEATHER PATTERNS

The weather in March was dominated by series of trough of low pressure systems with moist east to northerly winds prevailing over the Fiji group.

Moist easterly wind flow prevailed over the Fiji group from the 1<sup>st</sup> as a trough of low pressure approached the group from the west while swiftly sweeping eastwards over the rest of Fiji on the 2<sup>nd</sup>. Another trough followed through on the 3<sup>rd</sup> with occasional rain and thunderstorms over the group till the 5<sup>th</sup> with Suva recording the highest 24-hour rainfall of 72mm as it drifted north-eastwards towards the Northern Division of Fiji. The trough continued to linger over the Northern Division of Fiji till 13<sup>th</sup> with continued northerly to easterly wind flow prevailing over the country.

In addition, a trough developed to the south of the Fiji group on the 15<sup>th</sup> and affected the group while clearing to the north of Fiji till the 17<sup>th</sup> where it was situated away from the north of the group. Meanwhile, another trough approached the group from the west extending south-eastwards to the southwest of the group from the 18<sup>th</sup> to the 22<sup>nd</sup>. As the trough was over the south of the group it gradually moved north-eastwards with showers and thunder-storms experienced over the group which then lay to the far north of Fiji by the 25<sup>th</sup>.

The lowest daily minimum air temperature of  $17.0^{\circ}$ C was recorded at both Vunisea and Nadarivatu on the  $21^{st}$  and  $28^{th}$ , respectively, followed by Monasavu with  $18.0^{\circ}$ C on the  $28^{th}$ , Lomaivuna with  $20.4^{\circ}$ C on the  $28^{th}$ , Savusavu Airfield with  $20.5^{\circ}$ C on the  $22^{nd}$  and Vaturekuka (Labasa) with  $20.6^{\circ}$ C on the  $28^{th}$ , Korolevu with  $20.8^{\circ}$ C on the  $28^{th}$ , Udu Point with  $20.9^{\circ}$ C on the  $20^{th}$ , both Vanuabalavu and Lakeba with  $21.0^{\circ}$ C on the  $20^{th}$  and  $29^{th}$ , respectively.

Southeasterly winds were dominant at Nadi Airport while northwesterly winds were dominant at Nausori Airport during the month, both with light to moderate wind strength (Figure 8).

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

Finally, on the 26<sup>th</sup>, the trough re-intensified while drifting south over the group affecting the Northern Division and spreading to the rest of the group with occasional rain and thunderstorms till the end of the month.

Rotuma's weather was primarily dominated with east to northerly winds over the island with a series of trough moving near the island towards the final week of the month.

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

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# 3. RAINFALL

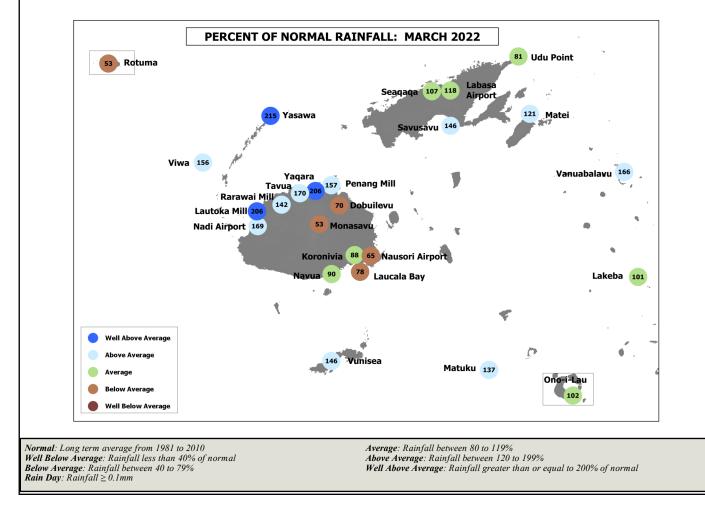
Typical wet season rainfall continued to be experienced at most parts of the country, with generally *average* to *well above average* rainfall recorded during the month of March 2022. The only exceptions were at Dobuilevu, Monasavu, Nausori Airport, Laucala Bay and Rotuma which experienced drier than usual conditions. Yaqara, Lautoka Mill and Yasawa-i-Rara recorded more than twice their *normal* monthly rainfall.

Overall, out of the 25 rainfall monitoring stations, 3 recorded *well above average* rainfall, 10 above average, 7 average and 5 stations recorded *below average* rainfall (Table 2, Figures 1-5).

Nadarivatu was the wettest site with 702.0mm of rainfall, followed by Yaqara with 621.5mm, Lautoka Mill with 595.4mm, Penang Mill with 568.0mm, Nadi Airport with 547.2mm, Yasawa-i-Rara with 513.5mm, Rarawai Mill with 511.3mm and Tavua with 494.0mm. On the other hand, Ellington (Ra) recorded the month's lowest total monthly rainfall of 99.0mm, followed by RKS Lodoni with 151.5mm, Rotuma with 182.5mm, Levuka with 218.5mm, Ono-i-Lau with 229.9mm, Nausori Airport with 230.2mm, Nasinu with 235.0mm and Udu Point with 243.6mm (Table 2).

A trough of low pressure affected the country at the end of the month. Significant 24-hour rainfall of 104mm was recorded at Vanuabalavu and 102mm at Yasawa-i-Rara, both on the 31<sup>st</sup>.

Matei Airfield recorded its highest number of rain days (rainfall  $\geq 0.1$ mm) with 30 days, followed by Nadarivatu with 29 days, Yasawa-i-Rara and Savusavu Airfield both with 28 days, Nadi Airport and Viwa both with 27 days and both Monasavu and Dobuilevu with 25 days. On the other hand, Ellington (Rakiraki) recorded the least number of rain days with 16 days, followed by Sigatoka with 17 days, Yaqara with 18 days, and Laucala Bay with 19 days.



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

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

Above normal day-time air temperatures were observed at Generally near normal to below normal night-time temperamost parts of Fiji during the month. Out of the 21 climate stations that reported in time for the analysis of data, 12 recorded anomalies  $\geq$ +0.5°C, 8 within ±0.5°C, and Rarawai C, 9 within ±0.5°C, and 8 registered anomalies  $\leq$ -0.5°C. Mill was the only lone station that recorded  $\leq$ -0.5°C.

The warmest days on average were recorded at Ellington (Rakiraki) with 33.3°C, followed by Navua and Levuka both with 32.8°C, Sagani with 32.5°C, Laucala Bay with 32.0°C, Labasa Airfield and RKS Lodoni both with 31.9°C, and Koronivia and Nausori Airport both with 31.8°C. On the other hand, Nadarivatu recorded the coolest days on average with 24.9°C, followed by Monasavu with 26.5°C, Momi with 30.3°C, Vaturekuka (Labasa) with 30.5°C, Ono -i-Lau with 30.7°C, Udu Point with 30.8°C, Vanuabalavu and Nadi Airport both with 30.9°C and Matuku with 31.0° С.

The highest day-time temperature was observed at Levuka with 35.9°C on the 8<sup>th</sup>, followed by Navua with 35.4°C on the  $22^{nd}$ , Saqani with  $35.2^{\circ}$ C on the  $15^{th}$ , Ellington (Rakiraki) with  $34.8^{\circ}$ C on the  $16^{th}$ , Korolevu with  $34.3^{\circ}$ C on the 4<sup>th</sup> and Sigatoka with 34.2°C on the 6<sup>th</sup>. In contrast, the coolest day-time temperature of 20.9°C was recorded at Nadarivatu on the 19th, followed by Monasavu with 24.0°C on the 19<sup>th</sup>, Yasawa-i-Rara and Penang Mill both with 27.5° C on the 19<sup>th</sup> and Koronivia and Yaqara both with 27.6°C on the 18<sup>th</sup> and 19<sup>th</sup>, respectively.

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

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

tures were recorded over most parts of the country during the month. Of the 21 stations, 4 recorded anomalies  $\geq +0.5^{\circ}$ 

The coolest days on average was at Nadarivatu with 18.9°C, followed by Monasavu with 19.8°C, Savusavu Airfield with 21.6°C, Lomaivuna with 21.8°C, Vaturekuka (Labasa) with 22.4°C, Yasawa-i-Rara with 22.5°C, and both Sigatoka and Korolevu with 22.9°C. On the other hand, the warmest night-time temperatures on average were observed at Levuka with 25.6°C, followed by Rotuma with 25.2°C, Laucala Bay with 24.6°C, Saqani with 24.5°C and Momi, Matuku and Viwa all with 24.1°C.

The coolest night-time temperatures were recorded towards the end of the month. The lowest daily minimum air temperature of 17.0°C was recorded at both Vunisea and Nadarivatu on the 21<sup>st</sup> and 28<sup>th</sup>, respectively, followed by Monasavu with 18.0°C on the 28<sup>th</sup>, Lomaivuna with 20.4°C on the 28th, Savusavu Airfield with 20.5°C on the 22nd and Vaturekuka (Labasa) with  $20.6^{\circ}$ C on the  $28^{th}$ , Korolevu with  $20.8^{\circ}$ C on the  $28^{th}$ , Udu Point with  $20.9^{\circ}$ C on the  $20^{th}$ , both Vanuabalavu and Lakeba with 21.0°C on the 20<sup>th</sup> and 29<sup>th</sup>, respectively. On the other hand, the warmest nighttime temperature of 27.2°C was recorded at Levuka on the  $22^{nd}$ , followed by Rotuma with 27.0°C on the  $2^{nd}$ , Koronivia with 26.9°C on the 19<sup>th</sup>, Vunisea with 26.4°C on the 16<sup>th</sup> and Matei Airfield with 26.1°C on the 4<sup>th</sup>.

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

# TABLE 1. CLIMATE RECORDS ESTABLISHED IN MARCH 2022

There were no new climate records established during March 2022.

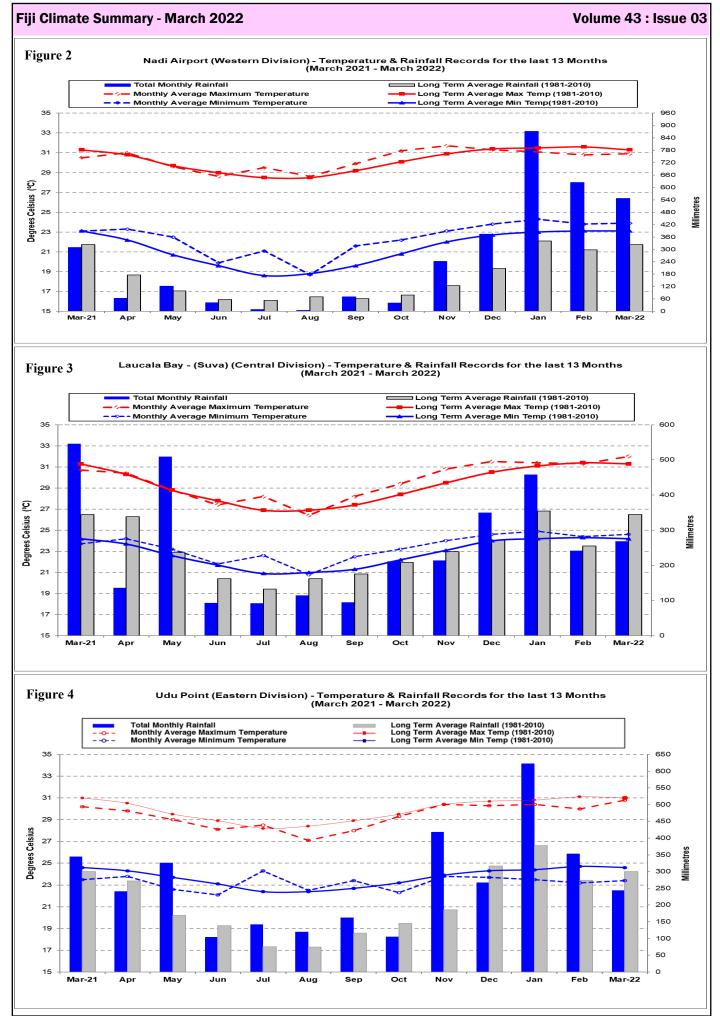
Note: All comparisons in this summary are with respect to "Climatic Normals". This is defined to be the average climate condition over a 30-year period. Fiji uses 1981-2010 period as its "climatic normal" period.

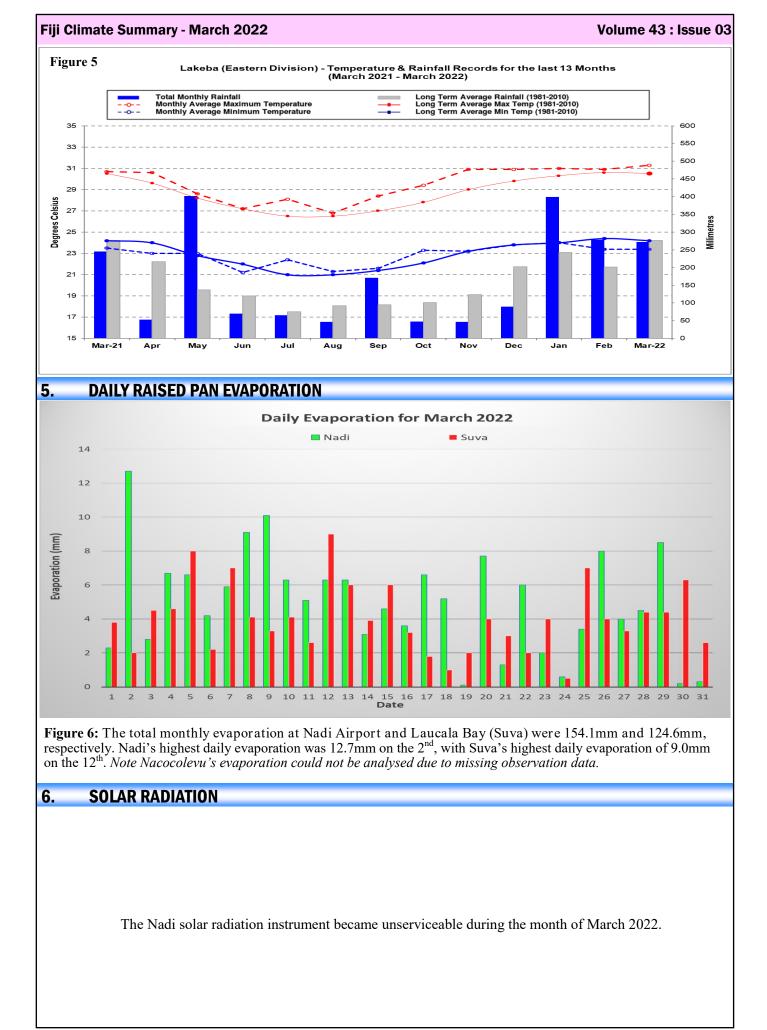
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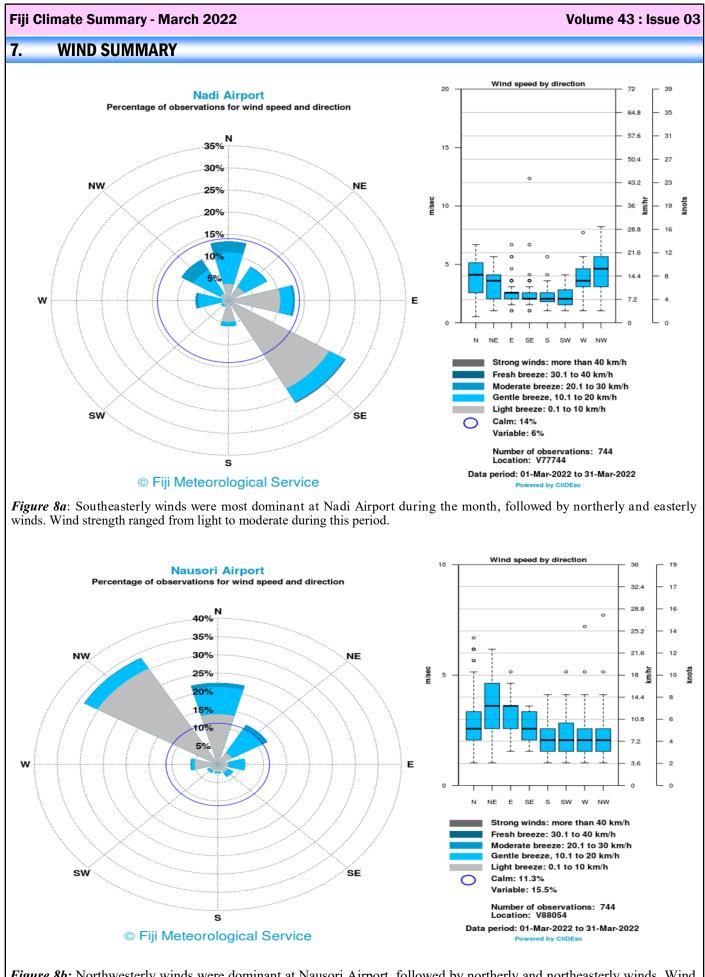
# TABLE 2. DAILY CLIMATE REPORTING SITES: SUMMARY FOR MARCH 2022

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				AIR TEMPERATURES SUNSHINE	
	TOTAL	RAIN * DAYS	MAX. FALL	AIR TEMPERATURES SUNSHINE AVERAGE DAILY EXTREME TOTAL MAX. # MIN. # MAX. MIN. *	
	MM	% +	MM ON	C C C C C ON C ON HRS %	
NADI AIRPORT LAUCALA BAY NACOCOLEVU RESEARCH	268.6	169 27 78 19		30.9 -0.4 23.9 0.8 32.6 15 22.6 18 146 75 32.0 0.8 24.6 0.4 34.0 4 23.3 18 133 74 G OBSERVATIONS	
ROTUMA ISLAND VIWA ISLAND	182.5	53 20 156 27	40 26 79 31	31.3 0.4 25.2 0.4 33.0 26 23.9 31 154 97 31.5 0.1 24.1 -1.1 32.8 8 22.6 18	
YASAWA-I-RARA UDU POINT WEATHER	513.5 243.6	215 28 81 23	102 31 46 31	31.7 0.7 22.5 -2.0 33.9 8 21.2 21 30.8 -0.2 23.4 -1.1 32.0 2 20.9 20	
LABASA AIRFIELD SAVUSAVU AIRFIELD	345.7	146 28	65 31 54 31	31.9 0.2 23.1 0.6 33.2 15 21.4 28   31.7 0.9 21.6 -2.1 34.0 16 20.5 22	
KORONIVIA RESEARCH NAUSORI AIRPORT NAVUA (AWS)	230.2	65 23	$\begin{array}{ccc} 71 & 17 \\ 58 & 4 \\ 60 & 16 \end{array}$	31.8 1.0 23.8 0.4 33.0 7 22.5 18   31.8 1.0 23.7 0.3 33.2 7 21.9 28   32.8 1.9 23.4 1.2 35.4 22 21.1 28	
MONASAVU HYDRO DAM	316.4	53 25	37 10 77 17	26.5   0.8   19.8   0.5   28.7   7   18.0   28     31.5   0.2   23.9   0.0   33.0   15   23.0   11	
FSC RARAWAI MILL FSC PENANG MILL	511.3 568.0	142 23 157 22	79 4 85 31	31.3 -0.9 23.2 0.7 33.4 2 21.5 28 31.2 0.2 23.7 -0.1 32.5 15 22.3 18	
MATEL AIRFIELD VANUABALAVU	339.6 366.4	121 30 166 23 101 24	62 25 104 31 45 19	31.2 0.7 23.3 -1.0 32.1 23 21.5 18   30.9 0.2 23.2 -1.8 32.1 28 21.0 20   31.3 0.9 23.4 -0.8 32.8 11 21.0 29	
VUNISEA MATUKU	453.0	146 23 137 21	99 29	31.4 1.0 23.6 0.0 32.9 23 17.0 21 31.0 0.6 24.1 -0.5 32.2 9 22.9 19	
FSC LAUTOKA MILL FSC RARAWAI MILL FSC PENANG MILL MATEI AIRFIELD VANUABALAVU LAKEBA VUNISEA MATUKU ONO-I-LAU YAQARA AWS LEVUKA AWS KEIYASI AWS LOMAIVUNA AWS NADARIVATU AWS RKS LODONI AWS SIGATOKA AWS ELLINGTON (RA) AWS	229.9 621.5	102 22 206 18	85 19 36 2 88 31	30.7   0.9   23.6   -0.8   34.0   14   21.8   22     31.2   23.5   32.4   2   22.4   18	
LEVUKA AWS KEIYASI AWS	218.5	22 24 23	84 31 27 17 127 9	MISSING OBSERVATIONS	
NADARIVATU AWS RKS LODONI AWS	702.0	29 23	92 18 39 31	24.9   18.9   27.4   15   17.0   28     31.9   23.3   33.0   11   21.3   28	
MOMI AWS SIGATOKA AWS	473.0 383.0	21 17	87 20 79 16	30.3   24.1   31.9   27   22.8   21     31.7   22.9   34.2   6   21.2   27	
VATUREKUKA AWS	387.0	22	25 3 98 31 92 16	31.7 21.8 33.8 7 20.4 28   24.9 18.9 27.4 15 17.0 28   31.9 23.3 33.0 11 21.3 28   30.3 24.1 31.9 27 22.8 21   31.7 22.9 34.2 6 21.2 27   33.3 U/S 34.8 16 U/S   30.5 22.4 32.2 9 20.6 28   31.7 22.9 34.3 4 20.8 28   GOBSERVATIONS 35.2 15 22.5 20	
WAINIKORO AWS SAOANI AWS	335.0 324.5	24	MISSIN 79 31	G OBSERVATIONS 32.5 24.5 35.2 15 22.5 20	
WAINIKORO AWS SAQANI AWS SEAQAQA TB3 DOBUILEVU TB3 NASINU TB3	392.5 273.0	107 22 70 25	37 31		
NASINU TB3 TAVUA TB3	235.0 494.0	) 23 170 21	52 17 86 31		
	D	RY WET	RH% V		
NADI AIRPORT	27.4 2	(AVER/ 7.9 25.2 8.7 25.5	80 28.		
NACOCOLEVU RESEARCH ROTUMA ISLAND	MIS 28.3 2	SING OBS 9.3 26.1	ERVATION 78 30.	5	
YASAWA-I-RARA	27.1 2	8.4 26.3	90 28.	3	
UDU POINT WEATHER LABASA AIRFIELD SAVUSAVU AIRFIELD	27.5 2	7.7 25.4	<mark>83</mark> 27.	8	
KORONIVIA RESEARCH	27.8 2	8.2 25.8 8.0 25.6	83 28. 82 28.	6	
MONASAVU HYDRO DAM					
FSC LAUTOKA MILL FSC RARAWAI MILL FSC PENANG MILL	27.2 2	7.4 25.4	86 27.	3	
MATEI AIRFIELD VANUABALAVU	27.3 2 <mark>27.1</mark> 2	8.6 26.1 8.5 25.7	82 29. 80 29.	3 1	
LAKEBA VUNISEA	27.5 2	9.2 26.3 7.8 25.6	84 27.	9	
MATUKU ONO-I-LAU	27.6 2	8.2 25.5 8.3 26.2	80 28. 85 28.		
MEAN TEMPERATURE IS	(MAX+	MIN)/2;	WIN	D IS MEAN SPEED AT 06,12,18,24 HOURS.	
(1981-2010). + :NUM	BER OF	DAYS WI	гн О.1 м	NE DURATION. # :DEPARTURE FROM LONG-TERM AVERAGE M OR MORE RAIN. * :PERCENT OF LONG-TERM AVERAGES. R EQUAL(≤) TO 5 DAYS. U/S: UNSERVICEABLE	
DECE FORT. MITSTING	NECURD	J OF LES		CORE(2) TO 3 DATS. 0/3. UNSERVICEADLE	







*Figure 8b:* Northwesterly winds were dominant at Nausori Airport, followed by northerly and northeasterly winds. Wind strength ranged from light to moderate during this period.

