

### 1. IN BRIEF

February weather was influenced by active trough of low pressure systems, moist northerlies, as well as rain bands associated with Tropical Depression 08F and Severe Tropical Cyclone Judy.

Flash flooding associated with the dominant weather features were mostly concentrated in the Western and Northern Divisions.

Overall, out of the 25 rainfall monitoring stations that reported in, in time for the compilation of bulletin, 8 stations recorded *well above average*, 11 recorded *above average*, 5 *average*, while Rotuma was the lone station with *below average* rainfall (Table 2, Figures 1-5).

The highest total monthly rainfall of 1052.5mm was observed at Nadarivatu, followed by Vaturekuka (Labasa) with 760.5mm, Rarawai Mill (Ba) with 752.2mm, Yaqara with 741.0mm, Lautoka Mill with 688.6mm, Tavua with 682.0mm, Nadi Airport with 643.7mm, Penang Mill with 580.2mm, Labasa Airfield with 548.0mm, Yasawa-I-Rara with 521.9mm, Momi with 520.5mm and Seaqaqa with 505.0mm.

On temperatures, the highest day-time temperature of 36.0°C was observed at Koronivia on the 3<sup>rd</sup>, followed by Le-

vuka with 35.7°C on the 9<sup>th</sup>, Korolevu with 35.6°C on the 26<sup>th</sup>, Yasawa-I-Rara with 35.5°C on the 1<sup>st</sup> and Ono-i-Lau with 34.9°C on the 27<sup>th</sup>.

The coolest night-time temperature of 16.1°C was recorded at Nadarivatu on the 6<sup>th</sup>, followed by Monasavu with 17.6°C on the 7<sup>th</sup>, Vanuabalavu with 20.1°C on the 19<sup>th</sup>, Yasawa-I-Rara with 21.0°C on the 19<sup>th</sup>, Rarawai Mill (Ba) and Lakeba, both with 21.0°C on the 6<sup>th</sup> and Vaturekuka (Labasa) with 21.4°C on the 19<sup>th</sup>.

Northerly winds were dominant at Nadi Airport while north-westerly winds were the most observed winds at Nausori Airport during February (Figure 7).

Warmer than normal sea surface temperature anomalies were observed across most of the Fiji Group during the month (Figure 8).

The continuous heavy rainfall increased soil saturation, resulting in a number of landslides occurring across the country. There was a reported drowning victim, when a 30 year old farmer of Nayalayala settlement in Taveuni was swept away after he tried crossing a flooded river on the 4<sup>th</sup>.

### 2. WEATHER PATTERNS

The weather in February was dominated by the moist northerlies as well as active troughs of low-pressure systems, rain bands from both Tropical Depression 08F and Severe Tropical Cyclone Judy.

The month started with a trough of low pressure with associated cloud and rain located to the north of Fiji. The trough then gradually moved southwards over the northern and eastern parts of the group on the 2<sup>nd</sup> to 3<sup>rd</sup>. This brought heavy rain and caused flooding over Vanua Levu before drifting to the south on the 4<sup>th</sup>. The trough affected other parts of the country until the 10<sup>th</sup>.

TC Gabrielle which formed to the far west of Fiji drifted towards the southeast and was located to the far southwest of Fiji on the 11<sup>th</sup>. The associated convergence zone, strong north-westerly winds and rain bands brought periods of rain over the western division and caused flash floods till the 18<sup>th</sup>.

On the 19<sup>th</sup>, the trough cleared the group while another weak trough was analysed to the south of Fiji and lingered around the southern parts of the country till the 25<sup>th</sup> which brought some showers over most parts of the group.

Another tropical disturbance TD08F developed to the southwest of Samoa on the 24<sup>th</sup> and gradually moved westwards and intensified into TC Judy on the 27<sup>th</sup> to the southwest of Rotuma and southern parts of Solomon Islands. The associated trough of low pressure and rain bands which extended to the Fiji group brought occasional showers over the northern and western divisions and affected the country till the end of the month.

Rotuma's weather was influenced by the moist east to northerlies together with a series of troughs of low-pressure systems from the 1<sup>st</sup> to the 20<sup>th</sup> before a westerly wind flow dominated the island from the 21<sup>st</sup> to the 25<sup>th</sup>. By the 26<sup>th</sup>, TD08F lay to the north of Rotuma with the associated trough affecting the island till the end of the month.

### 3. 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 only exception was for Rotuma which recorded *below average* rainfall. Viwa, Yasawa-I-Rara, Nadi Airport, Lautoka Mill, Rarawai Mill (Ba), Tavua, Yaqara and Matuku observed more than twice their normal monthly rainfall.

Overall, out of the 25 rainfall monitoring stations that recorded in, in time for the compilation of bulletin, 8 stations recorded *well above average*, 11 recorded *above average*, 5 *average*, while Rotuma was the lone station with *below average* rainfall (Table 2, Figures 1-5).

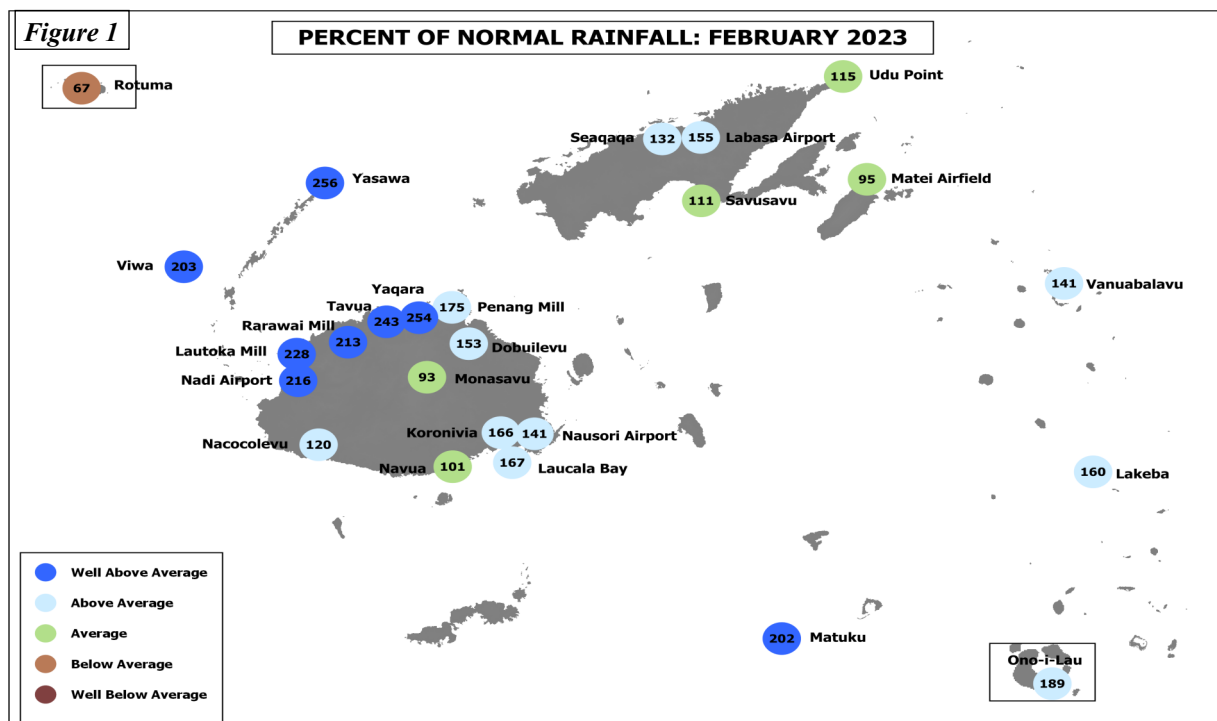
The highest monthly rainfall of 1052.5mm was observed at Nadarivatu, followed by Vaturekuka (Labasa) with 760.5mm, Rarawai Mill (Ba) with 752.2mm, Yaqara with 741.0mm, Lautoka Mill with 688.6mm, Tavua with 682.0mm, Nadi Airport with 643.7mm, Penang Mill with 580.2mm, Labasa Airfield with 548.0mm, Yasawa-I-Rara with 521.9mm, Momi with 520.5mm and Seaqaqa with 505.0mm. On the other hand, Rotuma recorded the month's lowest total monthly rainfall of 205.5mm, followed by Matei Airfield with 243.5mm, Savusavu Airfield with 253.2mm, both Keiyasi and Nacocolevu with 289.0mm and Navua with 294.0mm (Table 2).

Moist northerlies, series of active trough of low pressure systems, rain bands from Tropical Depression 08F and Severe Tropical Cyclone Judy brought significant rainfall throughout the country, especially across the Western and Northern Division. Highest 24-hour rainfall of 226mm was

recorded for Vaturekuka (Labasa) on 3<sup>rd</sup>, followed by 204mm at Tavua on 16<sup>th</sup>, 203mm at Seaqaqa on 3<sup>rd</sup>, 192mm at Yaqara on 16<sup>th</sup>, 190mm at Penang Mill on 17<sup>th</sup>, 189mm at Nadarivatu on 16<sup>th</sup> and Lautoka Mill with 188mm, Momi with 179mm and Nadi Airport with 156mm all on the 16<sup>th</sup>, 156mm at Labasa Airfield on the 3<sup>rd</sup> and Rarawai Mill (Ba) with 139mm on 16<sup>th</sup>. During this period, series of flash flooding events occurred around low lying areas of Western and Northern Division.

Monasavu, Nadarivatu and Koronivia recorded the highest number of rain days (rainfall  $\geq 0.1$ mm) with 27 days, followed by Lomaivuna with 26 days, Nacocolevu, Matei Airfield, and Savusavu Airfield all with 25 days, Nadi Airport, Navua and Lakeba all with 24 days, Yaqara, Lautoka Mill, Rarawai Mill (Ba), Vaturekuka (Labasa), Labasa Airfield and Vanuabalavu all with 23 days. Consequently, Udu Point recorded the least number of rain days with 15 days, followed by Seaqaqa with 16 days, Levuka with 17 days, Ono-i-Lau with 18 days, Sigatoka, Laucala Bay (Suva) and Momi, all with 20 days.

There was no new rainfall record established during the month.



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  $\geq 0.1$ mm

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 most parts of the country during the month. Out of the 22 climate stations that reported in time for the analysis of data, 12 recorded anomalies  $\geq +0.5^{\circ}\text{C}$ , 8 within  $\pm 0.5^{\circ}\text{C}$  and Nadi Airport and Rarawai Mill (Ba) were the only two stations with anomalies  $\leq -0.5^{\circ}\text{C}$ .

The warmest days on average were recorded at Korolevu with  $32.5^{\circ}\text{C}$ , Ono-i-Lau with  $32.4^{\circ}\text{C}$ , Koronivia with  $32.2^{\circ}\text{C}$ , Laucala Bay (Suva), Yasawa-I-Rara, Labasa Airfield and Vunisea, all with  $32.0^{\circ}\text{C}$ . Consequently, Nadarivatu recorded the coolest days on average with  $24.9^{\circ}\text{C}$ , followed by Monasavu with  $26.5^{\circ}\text{C}$ , Vaturekuka (Labasa) with  $30.3^{\circ}\text{C}$ , Vanuabalavu with  $30.6^{\circ}\text{C}$ , Momi with  $30.8^{\circ}\text{C}$ , Matei Airfield with  $30.9^{\circ}\text{C}$  and Nadi Airport with  $31.0^{\circ}\text{C}$ .

The highest day-time temperature was observed at Koronivia with  $36.0^{\circ}\text{C}$  on the 3<sup>rd</sup>, followed by Levuka with  $35.7^{\circ}\text{C}$  on the 9<sup>th</sup>, Korolevu with  $35.6^{\circ}\text{C}$  on the 26<sup>th</sup>, Yasawa-I-Rara with  $35.5^{\circ}\text{C}$  on the 1<sup>st</sup> and Ono-i-Lau with  $34.9^{\circ}\text{C}$  on the 27<sup>th</sup>. On the other hand, the coolest day-time temperature of  $21.3^{\circ}\text{C}$  was at Nadarivatu and  $22.5^{\circ}\text{C}$  at Monasavu, both on the 17<sup>th</sup>, followed by Vaturekuka (Labasa) with  $25.2^{\circ}\text{C}$  on the 14<sup>th</sup>, Seaqaqa with  $25.7^{\circ}\text{C}$  on the 17<sup>th</sup>, Momi with  $26.7^{\circ}\text{C}$  on the 16<sup>th</sup>, both Labasa Airfield and Levuka with  $26.8^{\circ}\text{C}$  on the 14<sup>th</sup> and 17<sup>th</sup>, respectively.

Koronivia recorded its highest daily maximum temperature since observations began in 1950 (Table 1).

### B. Minimum Night-time Air Temperatures

Generally above normal night-time temperatures were recorded over most parts of the country during the month. Of the 20 stations, 8 recorded anomalies  $\geq +0.5^{\circ}\text{C}$ , 6 within  $\pm 0.5^{\circ}\text{C}$ , and 6 with anomalies  $\leq -0.5^{\circ}\text{C}$ .

The coolest days on average was at Nadarivatu with  $19.2^{\circ}\text{C}$ , followed by Monasavu with  $20.5^{\circ}\text{C}$ , Yasawa-I-Rara with  $22.4^{\circ}\text{C}$ , Vaturekuka (Labasa) with  $22.7^{\circ}\text{C}$ , Rarawai Mill (Ba) with  $22.8^{\circ}\text{C}$ , Udu Point and Vanuabalavu, both with  $23.0^{\circ}\text{C}$ , Wainikoro with  $23.1^{\circ}\text{C}$ , Lakeba and Sigatoka, both with  $23.2^{\circ}\text{C}$ , and Korolevu with  $23.3^{\circ}\text{C}$ . Consequently, on average, the warmest night-time temperatures were observed at Viwa with  $25.3^{\circ}\text{C}$ , followed by Ono-i-Lau with  $25.1^{\circ}\text{C}$ , Vunisea and Laucala Bay (Suva), both with  $24.9^{\circ}\text{C}$ , Seaqaqa, Momi and Levuka, all with  $24.7^{\circ}\text{C}$  and Matuku with  $24.3^{\circ}\text{C}$ .

The coolest night-time temperature of  $16.1^{\circ}\text{C}$  was recorded at Nadarivatu on the 6<sup>th</sup>, followed by Monasavu with  $17.6^{\circ}\text{C}$  on the 7<sup>th</sup>, Vanuabalavu with  $20.1^{\circ}\text{C}$  on the 19<sup>th</sup>, Yasawa-I-Rara with  $21.0^{\circ}\text{C}$  on the 19<sup>th</sup>, Rarawai Mill (Ba) and Lakeba, both with  $21.0^{\circ}\text{C}$  on the 6<sup>th</sup> and Vaturekuka (Labasa) with  $21.4^{\circ}\text{C}$  on the 19<sup>th</sup>. On the other hand, the warmest night-time temperature of  $27.5^{\circ}\text{C}$  was recorded at Ono-i-Lau on the 3<sup>rd</sup>, followed by Viwa, Vunisea and Lomaivuna, all with  $27.4^{\circ}\text{C}$  on the 25<sup>th</sup>, 27<sup>th</sup> and 4<sup>th</sup>, respectively, Levuka with  $26.8^{\circ}\text{C}$  on the 28<sup>th</sup>, Seaqaqa with  $26.6^{\circ}\text{C}$  on the 26<sup>th</sup>, Laucala Bay (Suva) with  $26.5^{\circ}\text{C}$  on the 26<sup>th</sup>, and Vanuabalavu with  $26.5^{\circ}\text{C}$  on the 1<sup>st</sup>.

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

**TABLE 1. CLIMATE RECORDS ESTABLISHED IN FEBRUARY 2023**

<u>Element</u>	<u>Station</u>	<u>Observed (record)</u>	<u>On</u>	<u>Rank</u>	<u>Previous (record)</u>	<u>Year</u>	<u>Records Began</u>
Daily Maximum Temperature	Koronivia	$36.0^{\circ}\text{C}$	3 <sup>rd</sup>	New High	$34.5^{\circ}\text{C}$	1988	1950

*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 FEBRUARY 2023**

	RAINFALL					AIR TEMPERATURES								SUNSHINE	
	TOTAL	RAIN		MAX.		AVERAGE DAILY			EXTREME		TOTAL		HRS	%	
	MM	* DAYS	% +	MM	ON	MAX.	#	MIN.	#	MAX.	MIN.	ON			ON
NADI AIRPORT	643.7	216	24	156	16	31.0	-0.6	23.8	0.7	33.2	25	21.9	14	166	89
LAUCALA BAY	425.3	167	20	88	7	32.0	0.6	24.9	0.6	33.9	12	23.5	8	137	76
NACOCOLEVU RESEARC	289.0	120	25	57	16	31.5	-0.1	23.5	0.8	34.7	25	22.9	4	121	78
ROTUMA ISLAND	205.5	67	21	78	2	31.4	0.4	24.1	-0.7	33.0	22	22.6	12	155	103
VIWA ISLAND	458.8	203	22	63	5	31.8	0.2	25.3	-0.1	33.6	25	22.6	26		
YASAWA-I-RARA	521.9	256	21	78	16	32.0	0.9	22.4	-2.3	35.5	1	21.0	19		
UDU POINT WEATHER	315.7	115	15	53	12	31.2	0.1	23.0	-1.7	32.6	28	21.5	8		
NABOUWALU	STATION TEMPORARILY CLOSED														
LABASA AIRFIELD	548.0	155	23	156	3	32.0	0.3	23.5	0.9	34.0	24	22.1	19		
SAVUSAVU AIRFIELD	253.2	111	25	57	3	31.9	1.0	U/S		34.4	27	U/S			
KORONIVIA RESEARCH	462.2	166	27	85	6	32.2	1.3	U/S		36.0	3	U/S			
NAUSORI AIRPORT	373.7	141	21	64	5	31.9	1.0	23.9	0.5	33.5	12	22.5	21		
NAVUA (AWS)	294.0	101	24	55	9	31.9	1.0	23.4	1.3	34.8	28	22.2	11		
MONASAVU HYDRO DAM	480.2	93	27	80	21	26.5	0.7	20.5	1.1	29.1	1	17.6	7		
FSC LAUTOKA MILL	688.6	228	23	188	16	31.4	0.0	23.8	-0.1	32.6	5	21.8	5		
FSC RARAWAI MILL	752.2	213	23	139	16	31.5	-0.6	22.8	0.4	34.4	25	21.0	6		
FSC PENANG MILL	580.2	176	21	190	17	31.4	0.3	23.7	-0.1	33.5	1	22.5	18		
MATEI AIRFIELD	243.5	95	25	89	3	30.9	0.5	23.4	-0.8	32.4	7	21.9	4		
VANUABALAVU	301.1	141	23	47	3	30.6	0.0	23.0	-1.9	32.4	1	20.1	19		
LAKEBA	321.1	160	24	69	2	31.3	0.7	23.2	-1.2	32.7	28	21.0	6		
VUNISEA AWS	U/S														
MATUKU	336.8	202	21	63	5	31.2	0.6	24.3	-0.4	32.2	20	23.5	7		
ONO-I-LAU AWS	334.0	189	18	59	14	32.4	2.2	25.1	0.4	34.9	27	23.6	5		
YAQARA AWS	741.0	254	23	192	16	31.4		23.7		33.8	24	22.5	6		
LEVUKA AWS	396.0		17	89	17	31.9		24.7		35.7	9	22.5	4		
KEIYASI AWS	289.0		22	61	16	U/S		U/S		U/S		U/S			
LOMAIVUNA AWS	374.5		26	72	9	U/S		23.5		U/S		21.7	11		
NADARIVATU AWS	1052.5		27	189	16	24.9		19.2		28.5	24	16.1	6		
RKS LODONI AWS	MISSING OBSERVATION														
MOMI AWS	520.5		20	179	16	30.8		24.7		33.5	27	23.9	19		
SIGATOKA AWS	332.0		20	78	23	31.6		23.2		34.2	25	22.5	6		
VATUREKUKA AWS	760.5		23	226	3	30.3		22.7		32.2	24	21.4	19		
KOROLEVU AWS	317.0		22	63	23	32.5		23.3		35.6	26	22.4	11		
WAINIKORO AWS	396.5		21	88	3	31.5		23.1		33.0	19	21.9	19		
SAQANI AWS	MISSING OBSERVATION														
SEAQAQA AWS	505.0	132	16	203	3	31.6		24.7		34.0	24	23.2	11		
DOBUILEVU TB3	471.5	153	22	93	16										
NASINU TB3	333.5		22	45	5										
TAVUA TB3	682.0	243	21	204	16										

TEMPERATURE (C) HUMIDITY WIND  
 DRY WET RH% VP  
 MEAN (AVERAGE AT 9AM) KT

NADI AIRPORT	27.4	27.5	25.6	85	27.5	5.8
LAUCALA BAY	28.5	29.2	26.2	78	30.3	4.9
NACOCOLEVU RESEARC	27.5	28.9	26.3	82	29.8	
ROTUMA ISLAND	27.8	29.3	26.6	81	30.5	
VIWA ISLAND	28.5	29.1	26.8	84	30.1	
YASAWA-I-RARA	27.2	27.5	26.1	90	27.5	
UDU POINT WEATHER	27.1	28.5	25.8	81	29.1	
NABOUWALU	STATION TEMPORARILY CLOSED					
LABASA AIRFIELD	27.8	27.9	25.6	83	28.1	
SAVUSAVU AIRFIELD	U/S	28.7	26.1	82	29.4	
KORONIVIA RESEARCH	U/S	28.9	26.2	81	29.8	
NAUSORI AIRPORT	27.9	28.2	25.8	82	28.6	5.4
NAVUA AWS	28.5					
MONASAVU HYDRO DAM	23.5	23.4	23.2	98	21.5	
FSC LAUTOKA MILL	27.6	28.3	26.1	85	28.8	
FSC RARAWAI MILL	27.2	27.6	25.7	86	27.6	
FSC PENANG MILL	27.5	28.7	25.9	81	29.4	
MATEI AIRFIELD	27.2	28.8	26.1	81	29.6	
VANUABALAVU	26.8	28.7	25.7	78	29.4	
LAKEBA	27.2	28.8	26.2	81	29.6	
VUNISEA AWS	27.5					
MATUKU	27.8	28.7	25.7	79	29.4	
ONO-I-LAU AWS	28.8					

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.  
 BLUE FONT: MISSING RECORDS OF LESS THAN OR EQUAL(≤) TO 5 DAYS. U/S: UNSERVICEABLE

Figure 2

Nadi Airport (Western Division) - Temperature & Rainfall Records for the last 13 Months (February 2022 - February 2023)

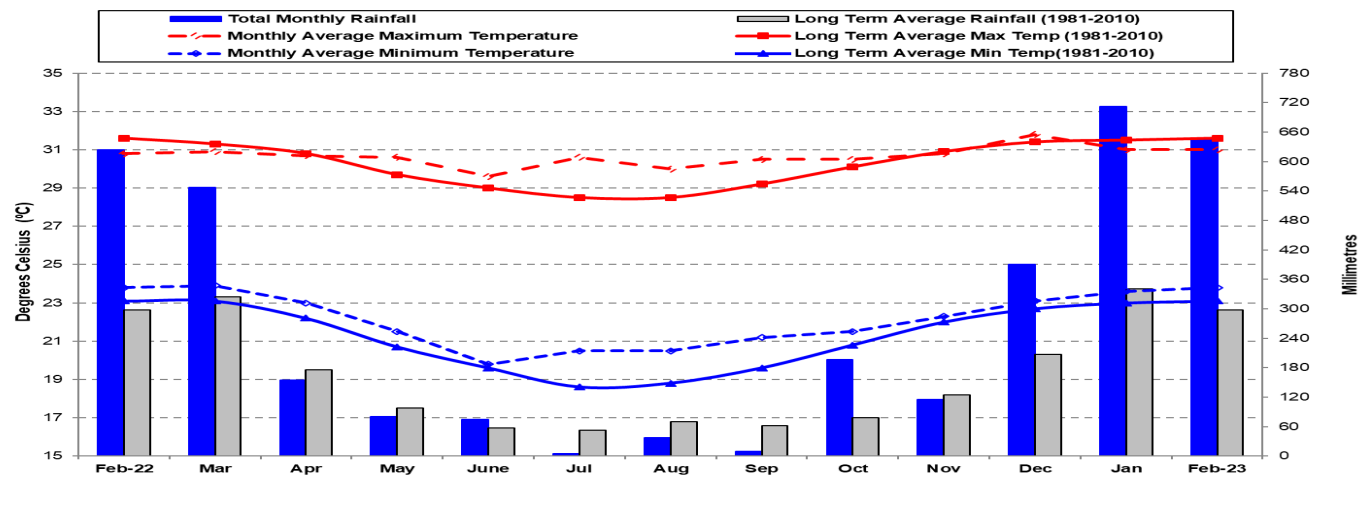


Figure 3

Laucala Bay - (Suva) (Central Division) - Temperature & Rainfall Records for the last 13 Months (February 2022 - February 2023)

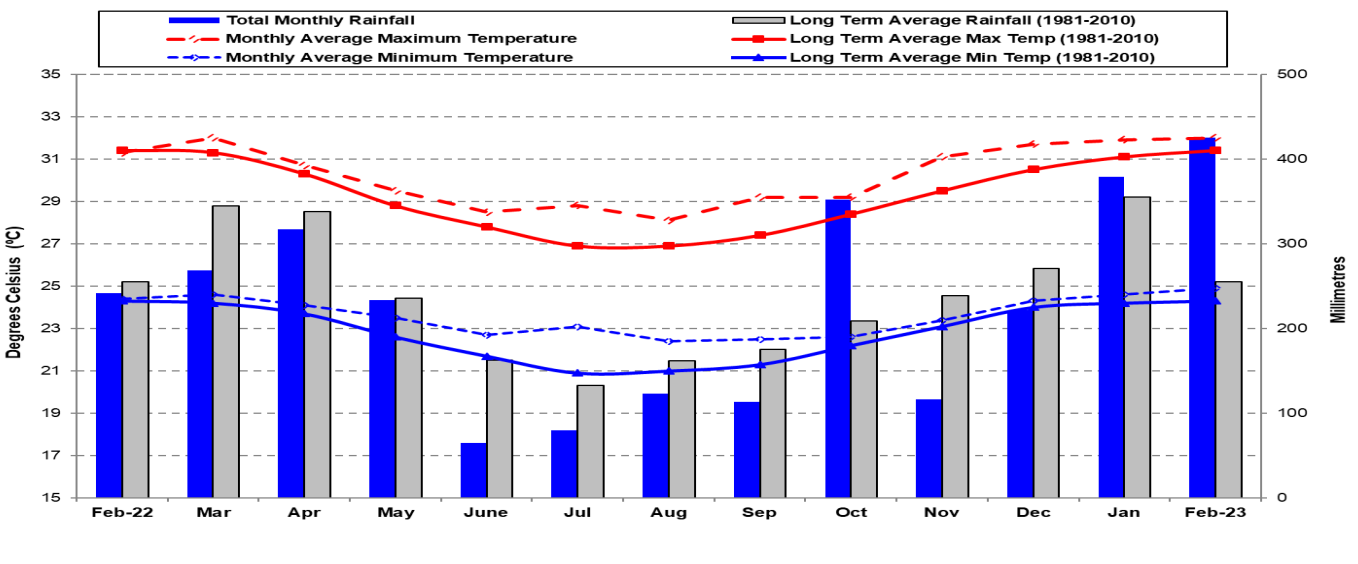


Figure 4

Udu Point (Eastern Division) - Temperature & Rainfall Records for the last 13 Months (February 2022 - February 2023)

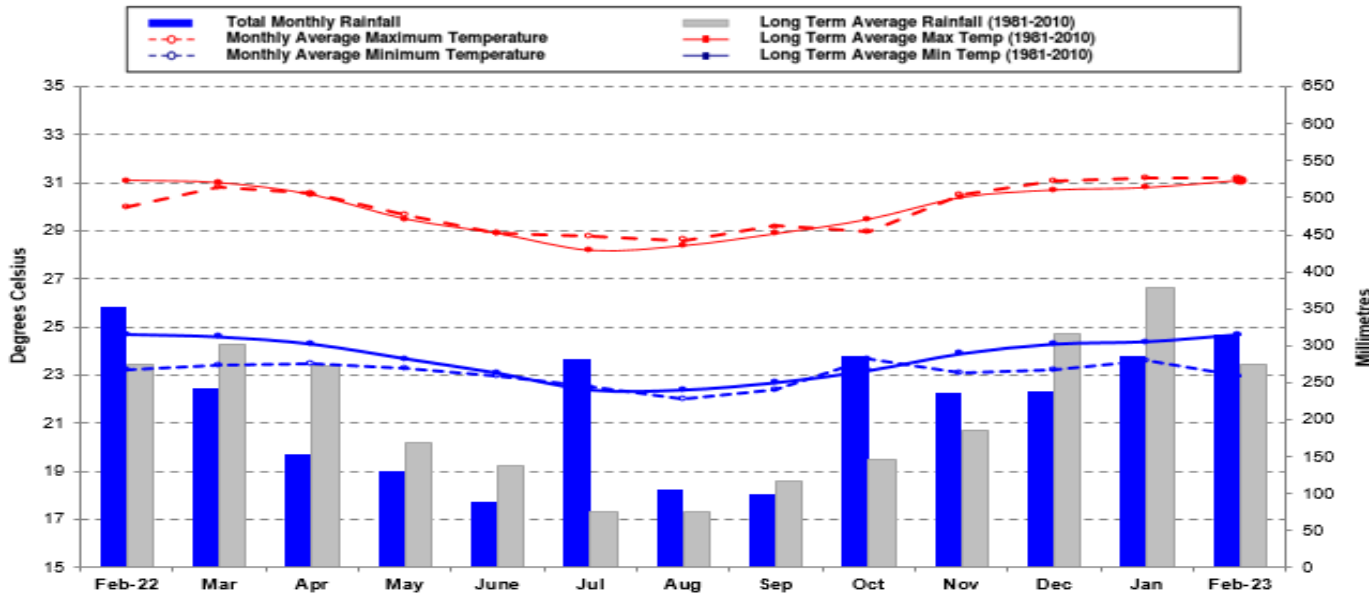
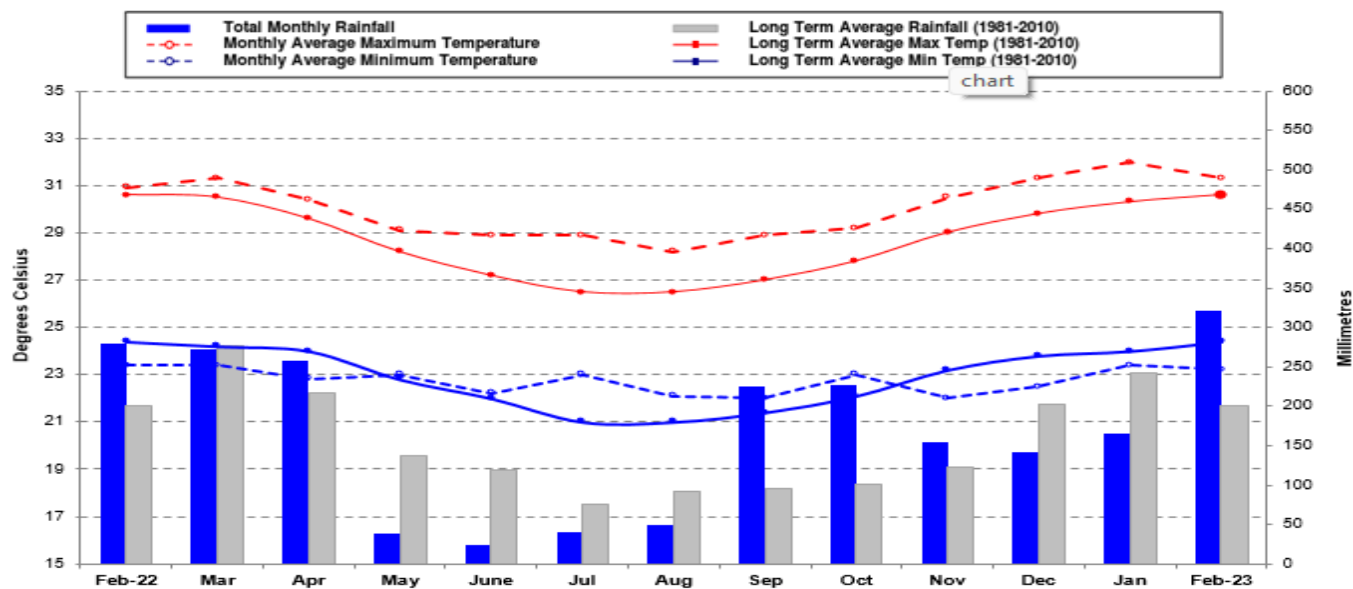




Figure 5

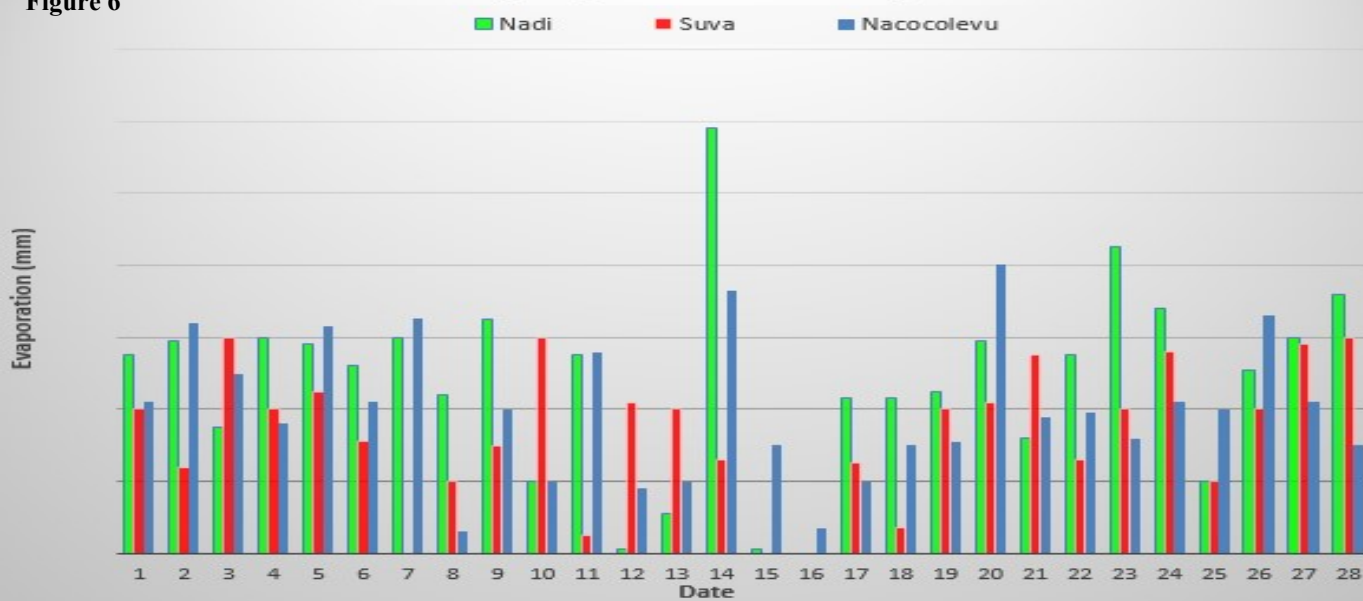
Lakeba (Eastern Division) - Temperature & Rainfall Records for the last 13 Months (February 2022 - February 2023)



## 5. DAILY RAISED PAN EVAPORATION

Figure 6

Daily Evaporation for February 2023



**Figure 6:** The total monthly raised pan evaporation at Nadi Airport, Laucala Bay (Suva) and Nacocolevu (Sigatoka) were 132.7mm, 93.2mm and 112.2mm respectively. Nadi’s highest daily evaporation was 11.8mm on the 14<sup>th</sup>, with Suva’s highest daily evaporation of 6.0mm on 3<sup>rd</sup>, 10<sup>th</sup> and 28<sup>th</sup> and Nacocolevu (Sigatoka) recorded its highest of 8.0mm on the 20<sup>th</sup>.

## 6. SOLAR RADIATION

The Nadi solar radiation instrument became unserviceable during the month of February 2023.

7. WIND SUMMARY

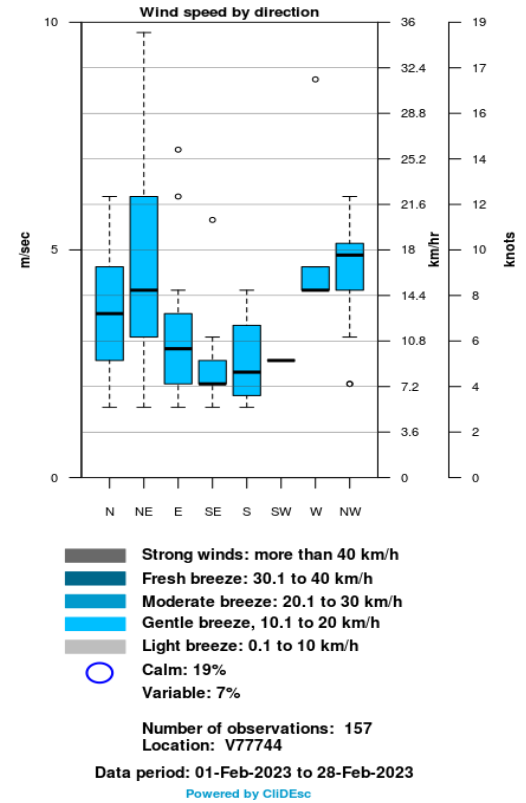
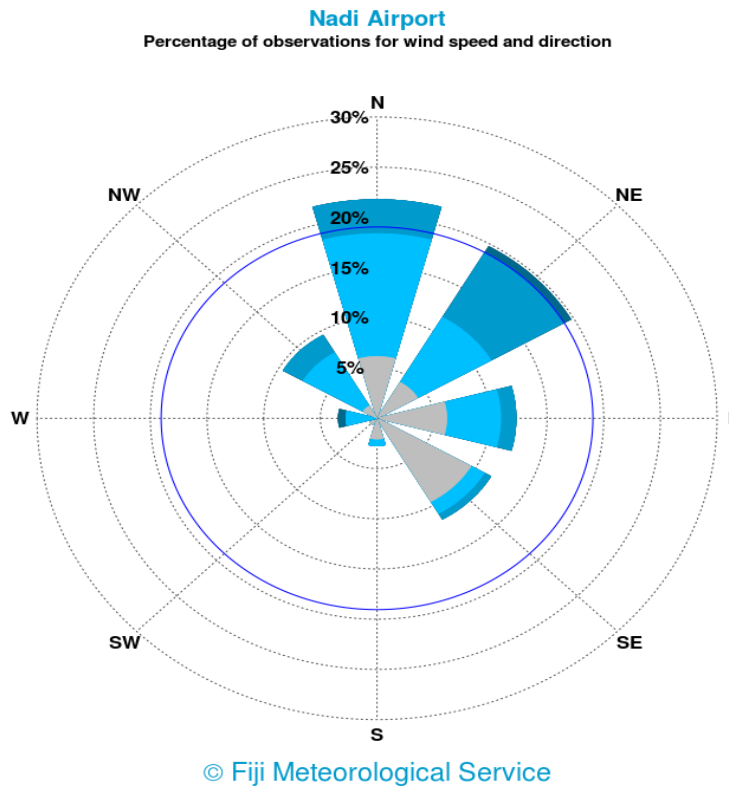


Figure 7a: Looking at Nadi’s 3hourly observations, northerly winds were most dominant during the month, followed by north-easterly and easterly winds. Wind strength ranged from fresh to light breeze, with calm winds observed during 19% of the time.

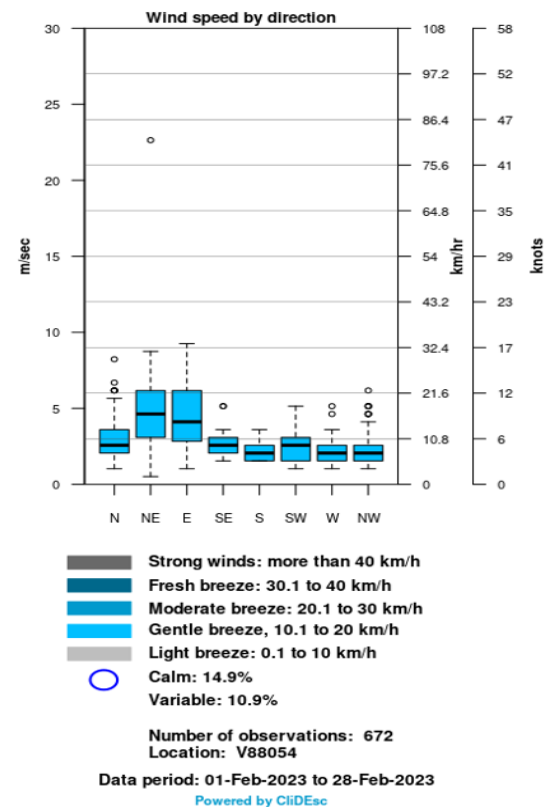
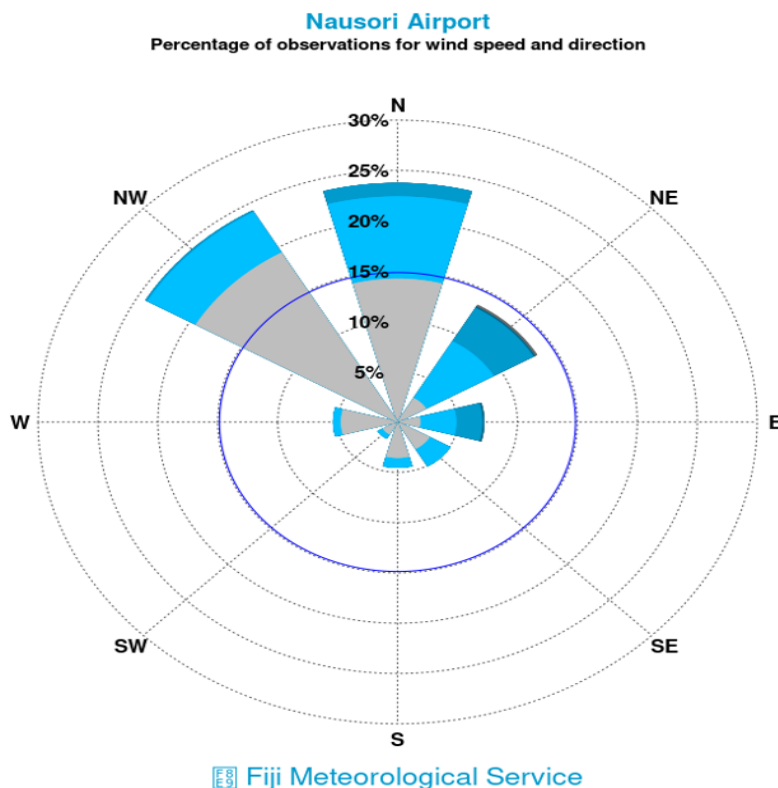
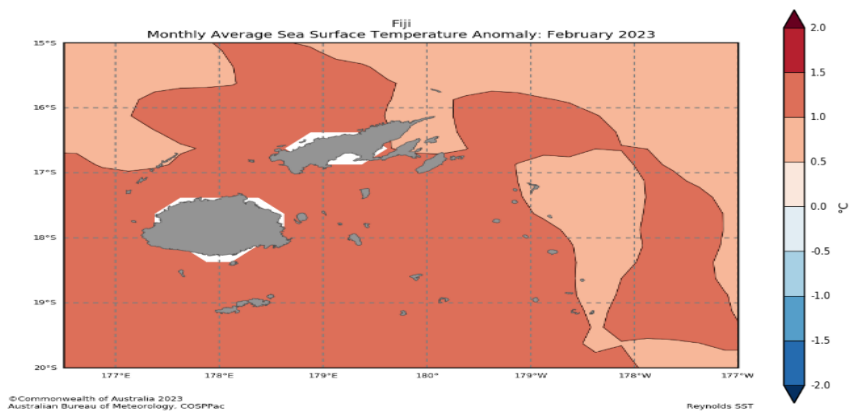


Figure 7b: For Nausori Airport’s hourly wind observations, northwesterly winds were dominant followed by northerly, then northeasterly winds. Wind strength ranged from moderate to light breeze, while 14.9% of observations accounted for calm winds.

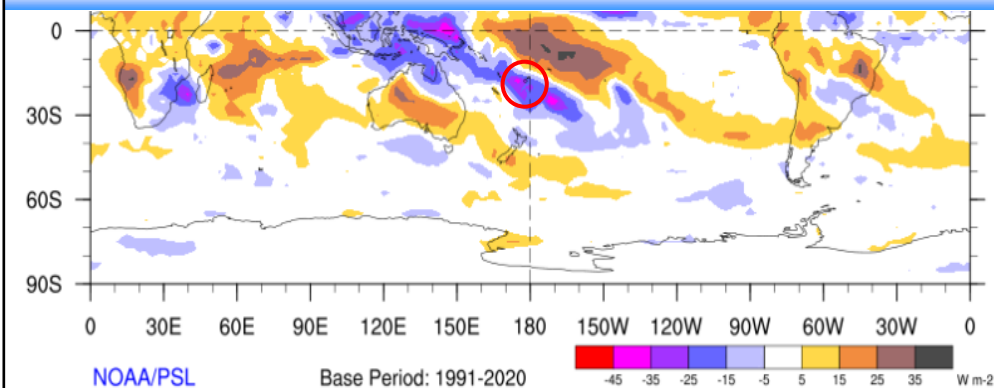
### 8. SEA SURFACE TEMPERATURE (SST)



**Figure 8:** Warmer than normal sea surface temperature anomalies were observed across the Fiji Group.

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

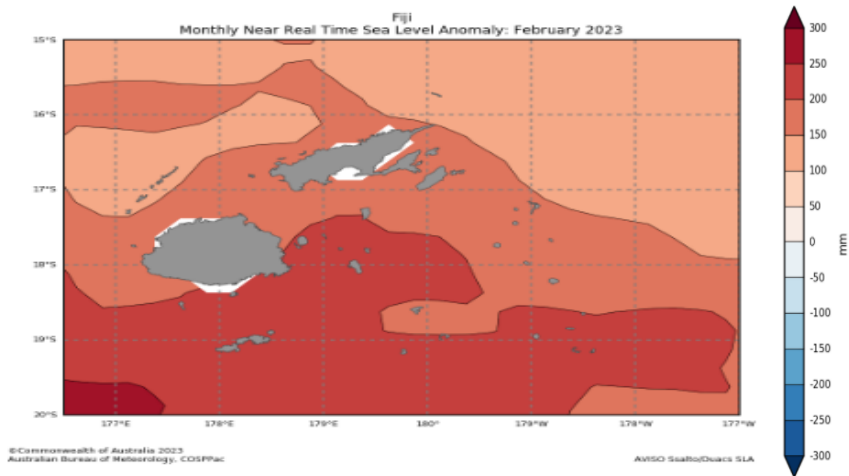
### 9. CLOUD COVER



**Figure 9:** Above normal cloud cover was present over the Fiji Group during February (Fiji in red circle).

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

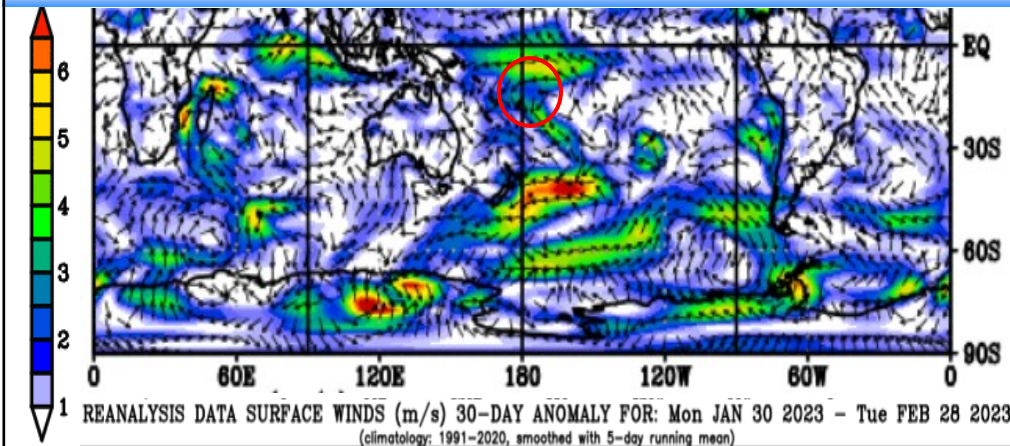
### 10. SEA LEVEL



**Figure 10:** Above normal sea level anomalies persisted across most of the Fiji Waters during February.

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

### 11. WIND ANOMALIES



**Figure 11:** Northeasterly 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](https://www.esrl.noaa.gov/psd/map/images/rnl/sfcwnd_30b.rnl.html)



## 12. FLASH FLOODING

Three episodes of flash flooding were recorded over the country during the month, especially across the Western and Northern Divisions.

The first episode of flash flooding occurred when a trough of low pressure with associated cloud and rain located to the north of Fiji gradually moved southwards over the northern and eastern parts of the country on the 2<sup>nd</sup> to 3<sup>rd</sup>. This resulted in significant rainfall being recorded at Seaqaqa with 203mm and Labasa Airfield with 156mm, both on the 3<sup>rd</sup>. Flash flooding occurred around low-lying areas of the Northern Division (Figure 12 to 14).

The associated convergence zone, strong north-westerly winds and rain bands brought periods of rain over the Western division from 11<sup>th</sup> to 18<sup>th</sup>. During this period, major flash floods occurred at several crossings and roads in most parts of the Western Division (Figure 16 to 19). Significant 24-hour rainfall of 105mm was recorded at Nadarivatu on 12<sup>th</sup>, followed by 105mm at Lautoka on the 14<sup>th</sup>, 126mm at Nadarivatu on the 15<sup>th</sup>, 204mm at Tavua, 192mm at Yaqara, 189mm at Nadarivatu, 188mm at Lautoka Mill, 179mm at Momi, 156mm at Nadi Airport and 139mm at Rarawai Mill (Ba), all on the 16<sup>th</sup> and 190mm at Penang Mill on 17<sup>th</sup>.

Due to localised heavy rain, the third episode of flash flooding occurred in some parts of Rakiraki on the 22<sup>nd</sup> (Figure 19 to 20).

There was a reported drowning victim when a 30 year old farmer of Nayalayala settlement in Taveuni was swept away after he tried crossing a flooded river on the 4<sup>th</sup>.



Figure 12: Flooding in Labasa town on 3<sup>rd</sup> February, 2023. Source: Fiji Sun.



Figure 13: A vehicle swept away at Munir Road in Seaqaqa on 3<sup>rd</sup> February, 2023. Source: Fiji Roads Authority.



Figure 14: Fallen coconut trees due to torrential rainfall in Siberia, Labasa on 3<sup>rd</sup> February, 2023. Source: Fiji Roads Authority.



Figure 15: Flooding in Balevuto, Ba on 17<sup>th</sup> February, 2023. Source: fijivillage.



Figure 16: Nadi town inundated with floodwaters on 17<sup>th</sup> February, 2023. Source: fijivillage



Figure 17: Flooding in low lying areas of Tavua on 17<sup>th</sup> February, 2023. Source: Women's Weather Watch.



Figure 18: Rabulu road (Tavua) damaged due to continuous flooding on 17<sup>th</sup> February, 2023. Source: fijivillage.



Figure 19: Flash flooding in Rakiraki Town on 22<sup>nd</sup> February, 2023. Source: Femlink Pacific.



Figure 20: Flooding in Rakiraki on 22<sup>nd</sup> February, 2023. Source: Femlink Pacific.

## 12. LANDSLIDE

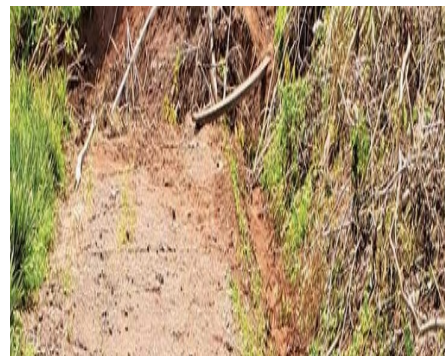
The continuous heavy rainfall made the soil saturated and as a result, a number of landslides occurred across the country. Landslide occurred at Nadarivatu on 18<sup>th</sup> February and another landslide occurred at Nakabuta settlement, Kubulau road, Wainunu, Bua on 21<sup>st</sup> February. A landslide also occurred at Paipai, Lautoka following a heavy downpour on 23<sup>rd</sup> February, which disrupted travelling for more than 30 residents.



*Figure 21: Landslide in Nadarivatu on 18<sup>th</sup> February, 2023. Source: Fiji Roads Authority.*



*Figure 22: Landslide at Nakabuta settlement, Kubulau road, Wainunu, Bua on 21<sup>st</sup> February, 2023. Source: The Fiji Times.*



*Figure 23: Landslide in Paipai, Lautoka after heavy downpour on 23<sup>rd</sup> February, 2023. Source: Fiji Sun.*