# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 161

**Country: Fiji** 

**TABLE 1: Monthly Rainfall** 

	Nov-	Dec- 2020	Jan-2021					
Station (include data period)	2020		Total (mm)	33%tile	67%tile	Median	Rank	
	Total (mm)	Total (mm)		Nalik				
		Weste	rn Division					
Penang Mill (1910-2021)	197.8	527.4	1008.0	241.1	455.2	321.9	110/112	
Lautoka Mill (1900-2021)	161.3	143.3	676.3	208.5	406.1	311.3	116/121	
Nadi Airport (1942-2021)	144.5	170.4	538.8	222.1	356.5	301.8	68/80	
		Centr	al Division					
Laucala Bay (Suva) (1942-2021)	385.6	481.5	578.4	253.1	392.5	315.3	75/80	
Nausori Airport (1957-2021)	330.4	443.0	553.7	261.0	406.2	318.3	57/65	
Tokotoko (Navua) (1945-2021)	395.9	463.0	432.5	275.4	408.0	342.8	56/76	
		Easte	rn Division					
Lakeba (1950-2021)	64.2	353.4	487.7	171.9	305.8	239.9	68/71	
Vunisea (Kadavu) (1931-2021)	65.6	282.5	446.9	171.8	296.1	243.3	77/86	
Ono-i-Lau (1943-2021)	103.6	102.6	295.4	130.0	230.1	184.4	64/74	
Northern Division								
Labasa Airport (1946-2021)	М	М	М	221.9	458.6	366.0	М	
Savusavu Airfield (1956-2021)	М	М	М	190.1	319.0	253.8	М	
Udu Point (1946-2021)	170.6	385.1	582.4	232.4	389.0	322.6	65/72	
Rotuma (1912-2021)	476.2	373.4	671.9	274.5	409.8	335.0	107/109	

**TABLE 2: Three-month Rainfall for November 2020 to January 2021** 

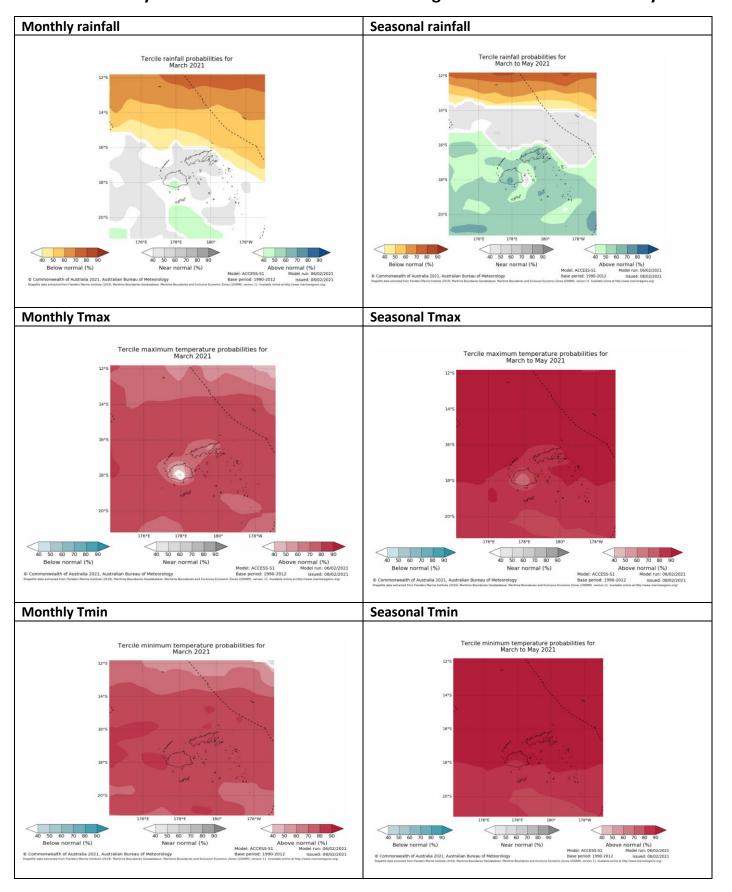
Station	Three-n	nonth Total	33%tile	67%tile	Median	Rank			ast probabilities ugust-September 2020		Verification: Consistent, Near- consistent,	
		Raiı	nfall (mm)				B-N	B-N N		LEPS	Inconsistent?	
Western Division												
Penang Mill (1910-2021)	1733.2	Above normal	561.7	922.7	713.9	104/106	17	34	49	23	Consistent	
Lautoka Mill (1900-2021)	980.9	Above normal	418.2	752.2	613.6	106/121	8	43	49	31	Consistent	
Nadi Airport (1942-2021)	853.7	Above normal	425.4	750.4	647.6	63/78	12	38	50	32	Consistent	
Central Division												
Laucala Bay (Suva) (1942-2021)	1445.5	Above normal	688.3	1041.5	909.5	77/79	29	30	41	4	Consistent	
Nausori Airport (1957-2021)	1327.1	Above normal	742.5	1046.2	857.1	63/65	23	33	44	10	Consistent	
Tokotoko (Navua) (1945-2021)	1291.4	Above normal	853.7	1135.1	953.2	61/74	23	38	39	6	Consistent	
				East	ern Division							
Lakeba (1950-2021)	905.3	Above normal	462.7	682.8	586.5	64/71	22	34	44	15	Consistent	
Vunisea (Kadavu) (1931-2021)	795.0	Above normal	487.2	704.8	568.7	67/83	22	34	44	12	Consistent	
Ono-i-Lau (1943-2021)	501.6	Normal	364.2	515.5	448.6	44/71	16	33	51	26	Near-consistent	
Northern Division												
Labasa Airport (1947-2021)	М		564.6	920.9	662.6	М	13	27	60	30	-	
Savusavu Airfield (1957-2021)	М		573.6	745.0	658.7	М	20	37	43	11	-	
Udu Point (1946-2021)	1138.1	Above normal	682.6	911.2	754.2	60/70	29	29	42	5	Consistent	
Rotuma (1912-2021)	1521.5	Above normal	853.9	1061.0	965.4	103/105	18	41	41	10	Near-consistent	

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2021 Predictor and Period used: NINO3.4 for December 2020 to January 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]				
	Western Division									
Penang Mill (1910-2021)	34	774.0	66		12	62				
Lautoka Mill (1900-2021)	39	601.5	61		4	61				
Nadi Airport (1942-2021)	39	585.2	61		5	63				
		Centr	al Division							
Laucala Bay (Suva) (1942-2021)	47	912.7	53		-1	50				
Nausori Airport (1957-2021)	44	916.4	56		0	50				
Tokotoko (Navua) (1945-2021)	46	1029.7	54		0	53				
		Easte	rn Division							
Lakeba (1950-2021)	40	649.5	60		4	60				
Vunisea (Kadavu) (1931-2021)	43	718.9	57		3	62				
Ono-i-Lau (1943-2021)	38	527.0	62		5	64				
	Northern Division									
Labasa Airport (1946-2021)	45	674.4	55		0	56				
Savusavu Airfield (1956-2021)	37	664.1	63		6	65				
Udu Point (1946-2021)	49	723.0	51		-2	33				
Rotuma (1912-2021)	53	945.8	47		-1	51				

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]			
	Western Division									
Penang Mill (1910-2021)	19	648.6	37	872.5	44	7	49			
Lautoka Mill (1900-2021)	19	524.0	37	717.3	44	9	44			
Nadi Airport (1942-2021)	20	508.9	36	657.2	44	9	50			
		Centr	al Division							
Laucala Bay (Suva) (1942- 2021)	28	819.1	33	1075.4	39	1	37			
Nausori Airport (1957-2021)	29	803.6	36	1035.5	35	-1	33			
Tokotoko (Navua) (1945- 2021)	30	929.0	38	1225.4	32	-2	36			
		Easte	rn Division							
Lakeba (1950-2021)	20	545.9	39	721.6	41	5	46			
Vunisea (Kadavu) (1931-2021)	19	637.0	40	762.6	41	7	46			
Ono-i-Lau (1943-2021)	24	462.1	33	649.9	43	4	42			
Northern Division										
Labasa Airport (1946-2021)	27	561.3	33	843.7	40	1	39			
Savusavu Airfield (1956-2021)	20	571.6	36	722.4	44	7	47			
Udu Point (1946-2021)	28	619.3	32	837.0	40	1	42			
Rotuma (1912-2020)	36	811.0	33	1000.2	31	-1	28			

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for March to May 2021



## **Summary Statements**

### Rainfall for January 2021:

Above normal rainfall was recorded across the country, while rainfall data for Labasa and Savusavu Airfield were not available.

Penang Mill and Rotuma recorded their third wettest January in their 112 and 109 years of record, respectively. Lakeba recorded its fourth wettest January in its 71 years of record, while Lautoka Mill and Laucala Bay (Suva) both recorded their sixth wettest in their 121 and 80 years of record, respectively.

# Accumulated rainfall for November 2020 to January 2021, including outlook verification:

Above normal rainfall was recorded across the country, with normal rainfall at Ono-i-Lau (Eastern Division) being the only exception. Labasa and Savusavu could not be analysed due to missing rainfall data.

Penang Mill, Laucala Bay (Suva), Nausori Airport and Rotuma all recorded their third wettest November to January period in their 106, 79, 65 and 105 years of record respectively.

The rainfall outlooks issued in October were 'Consistent' at nine sites and 'Near-Consistent' at two sites, while Labasa and Savusavu could not be verified due to missing readings.

### **Outlooks for March to May 2021:**

#### 1. SCOPIC:

- **Western, Northern Division and Ono-i-Lau:** The outlook shows *above normal* rainfall as the most likely outcome, with *near-normal* the next most likely. *Below normal* rainfall is the least likely.
- Lakeba and Vunisea: The outlook shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.
- **Central Division and Rotuma:** The outlook offers little guidance as the chances of *above normal*, *near-normal* and *below normal* rainfall are similar.

#### 2. ACCESS-S:

## Monthly rainfall:

- All region: Near-normal rainfall is most likely across the Fiji Group in March, except for areas along the Coral Coast where above normal rainfall is most likely.
- Rotuma: Below normal rainfall is favoured.

#### Monthly maximum and minimum temperatures:

• **All regions:** Temperatures are favoured to be *above normal* across the Fiji Group in **March**, except for interior parts of Viti Levu where there's little guidance for maximum temperature.

#### Seasonal rainfall:

Above normal rainfall is the favoured across much of the Fiji Group for the March to May 2021 period, the main
exceptions being some parts of the Lomaiviti Group where there is little guidance, and Rotuma where below
normal rainfall is favoured.

## Seasonal maximum and minimum temperature:

 All regions: Maximum and minimum temperatures are favoured to be above normal across the Fiji Group for the coming three months.

NB: The X LEPS % score has been categorised as follows:

 $\mbox{Very Low: } X < 0.0 \mbox{ Low: } 0 \le X < 5 \mbox{ Moderate } 5 \le X < 10 \mbox{ Good: } 10 \le X < 15 \mbox{ High: } 15 \le X < 25 \mbox{ }$ 

 TABLE 5: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: January 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	08/01/21	General public	140	106	34
EAR Watch	07/01/21	Humanitarian partners	122	96	26
Fiji Climate Outlook	29/01/21	General public	124	93	31
Climate Outlook for Monasavu	12/01/21	Energy Fiji Limited	13	13	-
Ocean Outlook	20/01/21	A number of key ocean related stakeholders	36	29	7
ENSO Update	25/01/21	General public	142	116	26
Fiji Sugarcane Climate Outlook	25/01/21	Sugar Industry stakeholders	77	60	17
Meteorological Data Request	01/01/21 to 31/01/21	A range of stakeholders	51	49	2
		Total	705	562	143