# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 158

**Country: Fiji** 

**TABLE 1: Monthly Rainfall** 

	Aug- 2020	Sep- 2020	Oct-2020						
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank		
	Total (mm)	Total (mm)		Nank					
		Weste	rn Division						
Penang Mill (1910-2020)	40.0	50.6	165.9	44.1	119.7	72.6	95/111		
Lautoka Mill (1900-2020)	20.6	32.9	80.6	38.2	103.3	64.4	67/121		
Nadi Airport (1942-2020)	17.3	50.5	148.7	39.5	107.9	61.6	62/79		
	Central Division								
Laucala Bay (Suva) (1942- 2020)	69.1	232.2	177.2	132.1	236.1	173.4	42/79		
Nausori Airport (1957-2020)	95.4	246.7	240.4	128.7	236.7	153.0	43/64		
Tokotoko (Navua) (1945- 2020)	74.1	294.5	287.7	195.0	317.4	248.5	44/76		
		Easte	rn Division						
Lakeba (1950-2020)	61.8	162.5	71.4	65.7	141.3	90.7	28/71		
Vunisea (Kadavu) (1931- 2020)	65.5	145.1	231.9	96.3	168.7	127.4	71/83		
Ono-i-Lau (1943-2020)	88.5	159.5	145.7	40.5	111.5	74.5	59/75		
Northern Division									
Labasa Airport (1946-2020)	22.2	67.0	109.4	67.1	133.4	96.6	36/63		
Savusavu Airfield (1956- 2020)	80.2	190.2	128.6	97.1	190.2	129.5	32/64		
Udu Point (1946-2020)	102.0	179.9	295.6	90.3	204.7	163.5	64/72		
Rotuma (1912-2020)	178.1	501.9	594.5	243.7	369.0	290.9	100/106		

**TABLE 2: Three-month Rainfall for August to October 2020** 

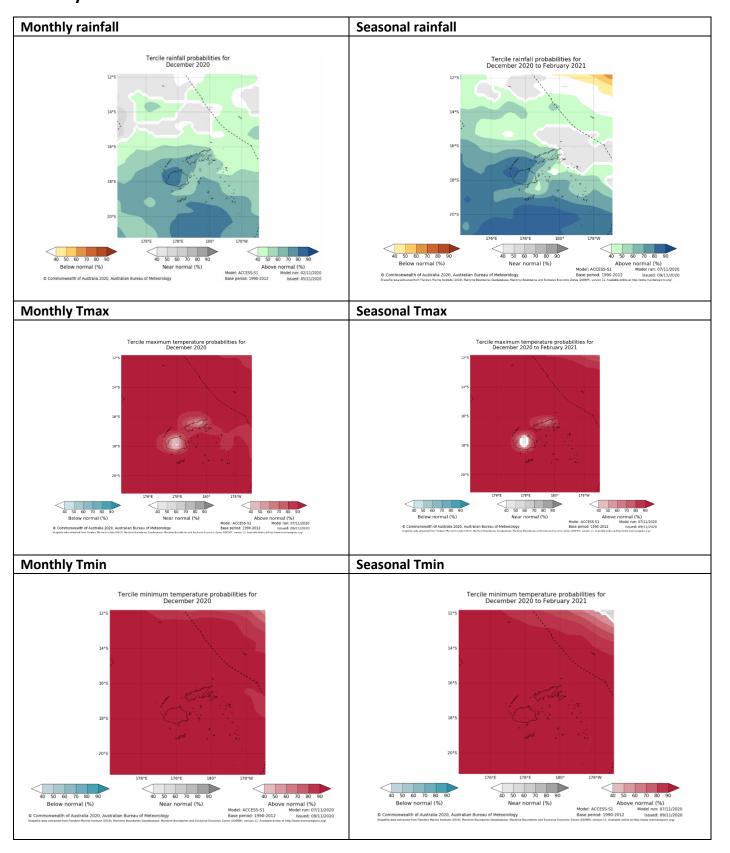
Station	Three-ı	month Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2020			Verification: Consistent, Near-consistent,	
		Rai	infall (mm)				B-N	N	A-N	LEPS	Inconsistent?
Western Division											
Penang Mill (1910-2020)	256.5	Normal	182.3	292.3	236.0	65/110	33	33	34	6	Near-consistent
Lautoka Mill (1900-2020)	134.1	Below normal	153.0	254.2	215.4	29/121	30	35	35	4	Near-consistent
Nadi Airport (1942-2020)	216.5	Normal	170.3	284.2	225.1	39/79	31	35	34	6	Consistent
Central Division											
Laucala Bay (Suva) (1942-2020)	478.5	Normal	416.6	628.8	515.6	33/79	31	35	34	4	Consistent
Nausori Airport (1957-2020)	582.5	Normal	421.0	606.9	483.9	40/64	34	31	35	-1	Near-consistent
Tokotoko (Navua) (1945-2020)	656.3	Normal	549.1	785.5	642.6	38/74	33	33	34	7	Near-consistent
				East	ern Division				•		
Lakeba (1950-2020)	295.7	Normal	252.4	344.3	308.9	32/70	32	34	34	2	Near-consistent
Vunisea (Kadavu) (1931-2020)	442.5	Normal	325.7	447.8	392.0	56/81	34	32	34	2	Near-consistent
Ono-i-Lau (1943-2020)	393.7	Above normal	236.7	357.5	312.2	53/73	32	34	34	1	Near-consistent
Northern Division											
Labasa Airport (1947-2020)	198.6	Normal	173.0	242.2	197.2	31/61	32	33	35	0	Near-consistent
Savusavu Airfield (1957-2020)	399.0	Normal	301.3	416.5	353.9	38/63	31	34	35	2	Near-consistent
Udu Point (1946-2020)	577.5	Above normal	297.4	411.9	342.0	62/71	33	32	35	2	Consistent
Rotuma (1912-2020)	1274.5	Above normal	634.6	888.1	717.8	96/103	35	35	30	2	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2020 to February 2021 Predictor and Period used: NINO3.4 for September to October 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]				
	Western Division									
Penang Mill (1910-2020)	30	952.0	70		15	66				
Lautoka Mill (1900-2020)	27	828.8	73		19	73				
Nadi Airport (1942-2020)	19	844.2	81		32	79				
Central Division										
Laucala Bay (Suva) (1942- 2020)	45	868.1	55		0	59				
Nausori Airport (1957-2020)	48	852.2	52		-2	42				
Tokotoko (Navua) (1945-2020)	45	986.4	55		0	53				
		Easte	rn Division							
Lakeba (1950-2020)	25	665.8	75		20	67				
Vunisea (Kadavu) (1931-2020)	38	651.3	62		5	65				
Ono-i-Lau (1943-2020)	35	541.1	65		8	60				
Northern Division										
Labasa Airport (1946-2020)	19	896.9	81		27	71				
Savusavu Airfield (1956-2020)	29	703.2	71		14	65				
Udu Point (1946-2020)	35	927.2	65		7	58				
Rotuma (1912-2020)	30	963.7	70		10	57				

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]	
		Weste	rn Division					
Penang Mill (1910-2020)	15	824.9	25	1087.9	60	23	54	
Lautoka Mill (1900-2020)	9	675.3	31	996.5	60	30	56	
Nadi Airport (1942-2020)	13	664.7	32	941.0	55	19	50	
		Centr	al Division					
Laucala Bay (Suva) (1942- 2020)	25	781.7	35	1010.5	40	1	23	
Nausori Airport (1957-2020)	32	786.4	32	1105.3	36	-1	22	
Tokotoko (Navua) (1945-2020)	31	870.2	35	1105.3	34	-2	13	
		Easte	rn Division					
Lakeba (1950-2020)	9	575.8	30	750.9	61	29	55	
Vunisea (Kadavu) (1931-2020)	18	554.5	40	754.7	42	7	45	
Ono-i-Lau (1943-2020)	21	439.1	36	620.5	43	5	49	
	Northern Division							
Labasa Airport (1946-2020)	7	774.7	28	1070.6	65	32	54	
Savusavu Airfield (1956-2020)	20	586.6	32	852.4	48	9	43	
Udu Point (1946-2020)	15	749.4	43	1048.6	42	10	44	
Rotuma (1912-2020)	16	859.4	29	1054.3	55	17	44	

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for December 2020 to February 2021



# **Summary Statements**

#### Rainfall for October 2020:

*Near normal* to *above normal* rainfall was recorded across all Divisions in Fiji while above normal rainfall was observed at Rotuma.

Rotuma recorded its seventh wettest October.

#### Accumulated rainfall for August to October 2020, including outlook verification:

Near normal rainfall was recorded in the Central and Western Divisions, except at Lautoka which recorded below normal rainfall. Near normal to above normal rainfall was received across the Eastern and Northern Divisions; Rotuma also registered above normal.

Rotuma recorded its eighth wettest August-October period on record.

The rainfall outlooks were 'Consistent' at three sites and 'Near Consistent' at ten sites.

### **Outlooks for December 2020 to February 2021:**

#### 1. SCOPIC:

- Western Division, Lakeba, Labasa and Rotuma: The outlook favours above normal rainfall.
- **Suva, Ono-i-Lau and Savusavu:** The outlook shows *above normal* rainfall as the most likely outcome, with *near normal* the next most likely. *Below normal* rainfall is least likely.
- **Kadavu and Udu Point:** The outlook shows a near-equal likelihood of *above normal* and *near normal* rainfall. *Below normal* rainfall is least likely.
- **Navua and Nausori (Central Division):** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

#### 2. ACCESS-S:

#### Monthly rainfall:

• **All regions:** *Above normal* rainfall is favoured across Fiji in December except for Rotuma with near-normal rainfall the most likely.

#### Monthly maximum and minimum temperatures:

• All regions: Maximum and minimum temperatures are favoured to be *above normal* across the Fiji Group in December, with the possible exception of parts of Viti Levu where there's little guidance for maximum temperature.

#### Seasonal rainfall:

**All regions:** *Above normal* rainfall is favoured across the Fiji Group during the December 2020 to February 2021 period. *Above normal* is also the most likely at Rotuma.

## Seasonal maximum and minimum temperatures:

• All regions: Maximum and minimum temperatures are favoured to be *above normal* across the Fiji Group for the coming three months, with the possible exception of parts of Viti Levu where there's little guidance for maximum temperature.

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

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

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

Product	Date: October 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/10/20	General public	140	106	34
EAR Watch	07/10/20	Humanitarian partners	122	96	26
Fiji Climate Outlook	30/10/20	General public	124	93	31
Climate Outlook for Monasavu	09/10/20	Energy Fiji Limited	13	13	-
Ocean Outlook	20/10/20	A number of key ocean related stakeholders	36	29	7
Fiji Sugarcane Climate Outlook	26/10/20	General Public	77	60	17
Meteorological Data Request	01/10/20 to 31/10/20	A range of stakeholders	55	47	8
Total			567	444	123