Pacific Islands - Online Climate Outlook Forum (OCOF) No. 159

Country: Fiji

TABLE 1: Monthly Rainfall

	Sep-2020	Oct-2020	Nov-2020						
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank		
	Total (mm)	Total (mm)							
Western Division									
Penang Mill (1910-2020)	50.6	165.9	197.8	95.4	188.9	133.0	79/109		
Lautoka Mill (1900-2020)	32.9	80.6	161.3	62.5	153.8	111.9	92/121		
Nadi Airport (1942-2020)	50.5	148.7	144.5	90.1	145.7	123.2	51/78		
Central Division									
Laucala Bay (Suva) (1942-2020)	232.2	177.2	385.6	155.3	278.9	205.6	65/79		
Nausori Airport (1957-2020)	246.7	240.4	330.4	189.0	300.5	229.8	48/65		
Tokotoko (Navua) (1945-2020)	294.5	287.7	395.9	200.7	356.6	279.0	55/75		
		Easte	rn Division						
Lakeba (1950-2020)	162.5	71.4	64.2	71.9	176.4	114.8	22/72		
Vunisea (Kadavu) (1931-2020)	145.1	231.9	65.6	94.3	164.9	110.0	24/85		
Ono-i-Lau (1943-2020)	159.5	145.7	103.6	59.5	125.9	93.1	44/74		
Northern Division									
Labasa Airport (1946-2020)	67.0	109.4	I	108.4	196.9	144.1	_		
Savusavu Airfield (1956-2020)	190.2	128.6	-	126.2	209.2	160.5	_		
Udu Point (1946-2020)	179.9	295.6	170.6	153.6	286.2	222.6	27/71		
Rotuma (1912-2020)	501.9	594.5	476.2	249.6	347.2	298.0	95/107		

TABLE 2: Three-month Rainfall for September to November 2020

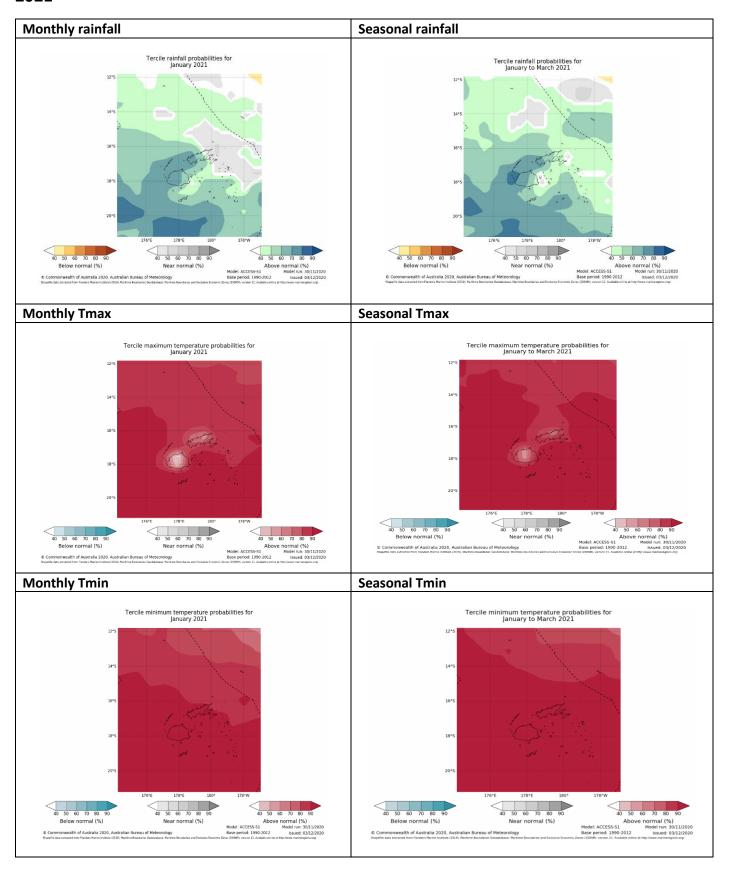
Station	Three-i	month Total	33%tile	67%tile	Median	Rank			st probabiliti 3.4 June-July 2		Verification: Consistent, Near-
		Ra	infall (mm)				B-N	N	A-N	LEPS	consistent, Inconsistent?
Western Division											
Penang Mill (1910-2020)	414.3	Above normal	245.0	404.7	292.4	78/108	29	37	34	15	Near-consistent
Lautoka Mill (1900-2020)	274.8	Normal	198.0	345.9	279.8	65/121	28	39	33	19	Consistent
Nadi Airport (1942-2020)	343.7	Above normal	240.9	342.9	295.7	54/78	25	42	33	26	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2020)	795.0	Above normal	471.7	781.4	653.0	54/79	31	35	34	6	Near-consistent
Nausori Airport (1957-2020)	817.5	Above normal	436.4	736.5	600.3	48/64	30	35	35	9	Near-consistent
Tokotoko (Navua) (1945-2020)	978.1	Above normal	643.3	937.2	773.1	55/74	27	40	33	24	Near-consistent
				East	ern Division					·	
Lakeba (1950-2020)	298.1	Normal	286.0	410.2	331.2	25/70	32	36	32	11	Consistent
Vunisea (Kadavu) (1931-2020)	442.6	Normal	343.9	452.0	406.2	58/82	30	37	33	11	Consistent
Ono-i-Lau (1943-2020)	408.8	Above normal	207.2	375.8	294.5	52/72	27	37	36	14	Near-consistent
				North	nern Division					·	
Labasa Airport (1947-2020)			258.1	367.4	303.7	-	25	38	37	20	Unverified
Savusavu Airfield (1957-2020)			368.5	511.5	425.2	-	21	41	38	25	Unverified
Udu Point (1946-2020)	646.1	Above normal	385.8	566.5	497.5	51/70	31	35	34	2	Near-consistent
Rotuma (1912-2020)	1572.6	Above normal	728.3	967.2	887.1	101/103	34	34	32	-1	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
		West	ern Division					
Penang Mill (1910-2020)	14	1124.2	86		35	79		
Lautoka Mill (1900-2020)	23	1011.6	77		21	70		
Nadi Airport (1942-2020)	26	938.8	74		19	74		
Central Division								
Laucala Bay (Suva) (1942-2020)	46	996.4	54		-1	53		
Nausori Airport (1957-2020)	50	979.4	50		-2	31		
Tokotoko (Navua) (1945-2020)	56	1061.1	44		0	59		
		Easte	rn Division					
Lakeba (1950-2020)	28	765.0	72		13	63		
Vunisea (Kadavu) (1931-2020)	40	789.1	60		3	59		
Ono-i-Lau (1943-2020)	42	618.4	58		1	55		
		North	ern Division					
Labasa Airport (1946-2020)	27	1108.6	73		15	71		
Savusavu Airfield (1956-2020)	31	780.7	69		10	58		
Udu Point (1946-2020)	24	965.2	76		17	64		
Rotuma (1912-2020)	14	1031.5	86		31	73		

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 (1910-2020)	7	1035.8	34	1250.0	59	27	53		
Lautoka Mill (1900-2020)	11	863.7	32	1133.0	57	19	59		
Nadi Airport (1942-2020)	10	818.6	32	1121.5	58	22	53		
		Centi	al Division						
Laucala Bay (Suva) (1942- 2020)	28	847.4	35	1070.6	37	-1	37		
Nausori Airport (1957-2020)	27	892.5	40	1076.2	33	-1	39		
Tokotoko (Navua) (1945-2020)	29	913.4	43	1202.9	28	-1	38		
		Easte	rn Division						
Lakeba (1950-2020)	14	652.4	32	884.6	54	16	47		
Vunisea (Kadavu) (1931-2020)	23	674.5	39	876.6	38	1	49		
Ono-i-Lau (1943-2020)	23	481.9	37	752.3	40	2	38		
		North	ern Division						
Labasa Airport (1946-2020)	7	945.7	48	1299.6	45	19	37		
Savusavu Airfield (1956-2020)	16	669.4	38	855.5	46	7	39		
Udu Point (1946-2020)	12	813.8	39	1038.7	49	14	52		
Rotuma (1912-2020)	14	887.4	29	1152.0	57	17	53		

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



Summary Statements

Rainfall for November 2020:

Below normal rainfall was recorded at Lakeba and Vunisea. On the other hand, above normal rainfall was registered across the Central Division, at Penang, Lautoka and Rotuma. Near normal rainfall was received at Nadi Airport, Ono-i-Lau and Udu Point. Rainfall data is not available for Labasa and Savusavu Airfield.

Accumulated rainfall for September to November 2020, including outlook verification:

Above normal rainfall was recorded across the Central Division, together with Penang Mill, Nadi Airport, Ono-i-Lau and Udu Point. Near normal was received at Lautoka Mill, Lakeba, and Vunisea. Rotuma also registered above normal rainfall.

Rotuma recorded its third wettest September- November period on record.

The rainfall outlooks were 'Consistent' at three sites and 'Near Consistent' at 8 sites, while Labasa Airport and Savusavu Airfield could not be verified due to missing readings.

Outlooks for January to March 2021:

1. SCOPIC:

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

2. ACCESS-S:

Monthly rainfall:

All regions: Above normal rainfall is favoured across most of the Fiji Group in January. At some of the more
eastern parts, including Udu Point, northern Taveuni and Vanuabalavu, near-normal rainfall is the most likely
outcome.

Monthly maximum and Minimum temperatures:

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

Seasonal rainfall:

 All regions: Above normal rainfall is the favoured or most likely outcome across the Fiji Group for the January to March 2021 period.

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.

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: $15 \le X < 25$

Very High: $25 \le X < 35$ Exceptional: $X \ge 35$

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

Product	Date: November 2020	Stakeholder	Total Number of Participants	Number of male	Number of female	
3 rd Fiji National Climate Outlook Forum (NCOF)	25/11/20- 26/11/20	Disaster Management, Oceans, Fisheries, Utilities, Agriculture, and Media	72	46	26	
Fiji Climate Summary	09/11/20	General public	140	106	34	
EAR Watch	05/11/20	Humanitarian partners	122	96	26	
Fiji Climate Outlook	30/11/20	General public	124	93	31	
Climate Outlook for Monasavu	11/11/20	Energy Fiji Limited	13	13	-	
Ocean Outlook	20/11/20	A number of key ocean related stakeholders	36	29	7	
ENSO Update	30/11/20	General Public	142	116	26	
Meteorological Data Request	01/11/20 to 30/11/20	A range of stakeholders	27	23	4	
	-		676	522	154	