Pacific Islands - Online Climate Outlook Forum (OCOF) No. 135

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2018	Oct-2018	Nov-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2018)	35.2	341.2	69.6	95.7	189.8	135.8	29/107
Lautoka Mill (1900-2018)	25.2	220.8	74.9	62.1	154.6	114.7	50/119
Nadi Airport (1942-2018)	42.2	173.1	97.5	90.9	147.4	124.1	28/76
Viwa (1978 -2018)	28.7	171.1	81.9	57.3	134.5	96.1	17/37
Central Division							
Laucala Bay (Suva) (1942-2018)	259.5	541.9	321.3	155.7	271.2	205.6	56/77
Nausori Airport (1957-2018)	113.9	542.0	444.4	186.2	298.7	229.8	**57/63**
Tokotoko (Navua) (1945-2018)	287.5	503.6	201.2	222.1	370.7	290.0	25/73
Eastern Division							
Lakeba (1950-2018)	188.5	259.7	111.0	71.4	177.4	114.8	35/70
Vunisea (Kadavu) (1931-2018)	159.8	126.2	104.6	94.0	168.6	110.1	41/83
Ono-i-Lau (1943-2018)	195.0	71.0	63.0	62.8	127.0	96.6	26/72
Northern Division							
Labasa Airport (1946-2018)	49.7	252.7	51.0	116.6	209.9	151.1	**6/60**
Savusavu Airfield (1956-2018)	122.4	457.9	92.7	132.2	211.3	171.9	**6/62**
Rotuma (1912-2018)	98.3	175.8	89.9	250.4	346.7	298.0	**1/105**

TABLE 2: Three-month Rainfall for September to November 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 June-July 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2018)	446.0	Above normal	250.4	393.9	292.4	81/106	41	38	21	15	Inconsistent
Lautoka Mill (1900-2018)	320.9	Normal	189.0	354.7	279.8	79/119	43	36	21	22	Near-consistent
Nadi Airport (1942-2018)	312.8	Normal	238.6	342.9	294.6	43/76	46	37	17	29	Near-consistent
Viwa (1978 -2018)	281.7	Normal	184.8	303.3	228.7	23/36	37	31	32	10	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2018)	1122.7	Above normal	465.2	754.7	649.3	70/77	39	34	27	7	Inconsistent
Nausori Airport (1957-2018)	1100.3	Above normal	433.1	713.6	594.2	56/62	39	37	24	11	Inconsistent
Tokotoko (Navua) (1945-2018)	992.3	Above normal	638.4	941.6	773.1	53/72	43	37	20	22	Inconsistent
Eastern Division											
Lakeba (1950-2018)	559.2	Above normal	286.0	409.9	331.2	60/68	41	38	21	10	Inconsistent
Vunisea (Kadavu) (1931-2018)	390.6	Normal	339.0	455.7	406.2	41/80	43	34	23	13	Near-consistent
Ono-i-Lau (1943-2018)	329.0	Normal	207.5	387.7	294.5	42/70	43	34	23	12	Near-consistent
Northern Division											
Labasa Airport (1947-2018)	353.4	Normal	259.0	360.4	303.7	38/58	40	39	21	20	Near-consistent
Savusavu Airfield (1957-2018)	673.0	Above normal	363.2	507.4	422.8	51/61	43	36	21	28	Inconsistent
Rotuma (1912-2018)	364.0	Below normal	728.8	965.5	887.1	1/101	33	31	36	-1	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2019
Predictor and Period used: NINO3.4 for October to November 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2018)	85	1133.0	15		35	79
Lautoka Mill (1900-2018)	76	1029.1	24		19	68
Nadi Airport (1942-2018)	75	938.8	25		20	74
Viwa (1978 -2018)	80	725.2	20		32	78
Central Division						
Laucala Bay (Suva) (1942-2018)	55	996.4	45		-1	53
Nausori Airport (1957-2018)	52	958.6	48		-1	47
Tokotoko (Navua) (1945-2018)	44	1068.2	56		0	58
Eastern Division						
Lakeba (1950-2018)	73	765.0	27		14	67
Vunisea (Kadavu) (1931-2018)	60	789.1	40		3	60
Ono-i-Lau (1943-2018)	57	618.4	43		1	55
Northern Division						
Labasa Airport (1946-2018)	69	1119.0	31		11	68
Savusavu Airfield (1956-2018)	69	780.7	31		11	58
Rotuma (1912-2018)	82	1043.5	18		31	74

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 (1910-2018)	63	1045.7	28	1256.0	9	25	53
Lautoka Mill (1900-2018)	56	867.3	33	1147.3	11	20	57
Nadi Airport (1942-2018)	59	828.6	29	1136.4	12	21	52
Viwa (1978 -2018)	64	625.9	30	838.0	6	28	64
Central Division							
Laucala Bay (Suva) (1942-2018)	39	853.0	32	1069.5	29	-1	35
Nausori Airport (1957-2018)	40	883.8	27	1071.4	33	-1	39
Tokotoko (Navua) (1945-2018)	38	910.5	23	1230.8	39	-1	36
Eastern Division							
Lakeba (1950-2018)	54	658.3	33	884.4	13	17	46
Vunisea (Kadavu) (1931-2018)	45	664.8	26	876.6	29	1	46
Ono-i-Lau (1943-2018)	43	484.6	31	751.3	26	1	40
Northern Division							
Labasa Airport (1946-2018)	58	973.0	22	1305.0	20	16	40
Savusavu Airfield (1956-2018)	50	671.7	25	861.5	25	7	33
Rotuma (1912-2018)	58	904.0	30	1152.9	12	18	49

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January to March 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	**43**	580.0	18	766.0	39
Nadi	**55**	810.0	12	1045.0	33
Nabouwalu	**46**	752.0	42	952.0	12
Udu Point	**43**	695.0	21	990.0	36
Vunisea	**55**	624.0	12	810.0	33
Suva	**55**	840.0	12	1022.0	33
Rotuma	**61**	893.0	24	1095.0	15

Summary Statements

Rainfall for November 2018:

Normal rainfall was recorded in Eastern and Western Division, apart from Penang which recorded *below normal*. *Below normal* in Northern Division and Rotuma, *above normal* and *below normal* was recorded in the Central Division.

Rotuma recorded its lowest November monthly rainfall, while Labasa and Savusavu recorded its sixth lowest November monthly rainfall. Nausori airport recorded the 7th wettest November on record.

Accumulated rainfall for September to November 2018, including outlook verification:

Normal to *above normal* rainfall was recorded at most parts of the country, except for Rotuma, which recorded *below normal* rainfall.

Rotuma recorded its lowest September to November total rainfall in its 101 years of record. Suva, Nausori and Lakeba recorded their wettest 8th, 7th and 9th wettest November on record.

The rainfall outlooks were 'Near- Consistent' at 6 sites and 'Inconsistent' at 7 sites.

Outlooks for January to March 2019:

1. **SCOPIC:**

   - At Penang, Lautoka, Nadi, Viwa, Lakeba, Labasa, Rotuma and Savusavu the outlook favours *below normal,* with *normal* the next most likely.
   - At Nausori, Vunisea and Ono-I-Lau, the outlook shows *below normal* as the most likely outcome, with *above normal* the next most likely.
   - At Tokotoko, the outlook is mixed with similar chances for *below normal* and *above normal.*
   - At Laucala Bay, the outlook shows a *near-equal likelihood* of *below normal* and *normal* rainfall.

2. **POAMA:** The outlook favours *below normal* across the country

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

Country	Date: November 2018	Stakeholder	Goals	Total Number of Participants	Number of male	Number of female
Fiji	26/11-30/11	BMKG FMS	To understand the concepts related to NWP processes and use that knowledge to produce customised charts for weather prediction using GrADS	13	11	2
Fiji	26/11-27/11	Lautoka City Council Nadi Town Council FMS Ministry of Local Government & Housing	To increase the awareness amongst the public and communities on Disaster Risk Reduction Management	40	25	15