

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 138

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2018	Jan-2019	Feb-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)	630.9	453.3	506.6	268.0	378.1	327.4	41/47
Pekoa (1971-2019)	365.8	138.7	400.3	202.2	365.3	275.2	38/49
Lamap (1961-2019)	141.0	130.5	174.5	163.6	263.5	225.3	22/59
Southern Region							
Bauerfield (1972-2019)	157.2	247.3	365.6	243.4	350.2	284.4	33/47
Port Vila (1953-2019)	228.5	218.0	242.5	214.1	301.9	252.3	31/67
Whitegrass (1972-2019)	99.8	93.9	253.5	113.0	214.4	165.5	35/48
Aneityum (1952-2019)	105.9	102.7	535.0	183.9	293.0	229.0	63/68

TABLE 2: Three-month Rainfall for December 2018 to February 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 September-October 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Northern Region											
Sola (1971-2019)	1590.8	Above normal	1000.8	1207.7	1112.6	40/44	39	36	25	1	Inconsistent
Pekoa (1971-2019)	904.8	Above normal	676.5	895.4	756.0	32/48	40	33	27	2	Inconsistent
Lamap (1961-2019)	446.0	Below normal	498.8	670.3	578.9	12/58	48	29	23	12	Consistent
Southern Region											
Bauerfield (1972-2019)	770.1	Normal	635.5	884.7	774.8	22/45	49	32	19	18	Near- consistent
Port Vila (1953-2019)	689.0	Normal	607.3	810.2	704.1	31/66	54	31	15	19	Near- consistent
Whitegrass (1972-2019)	447.2	Normal	353.1	539.0	483.1	23/47	51	32	17	12	Near- consistent
Aneityum (1952-2019)	743.6	Normal	559.2	868.4	711.6	39/67	51	25	24	9	Near- consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2019**Predictor and Period used: NINO3.4 for January to February 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region						
Sola (1971-2019)	66	1183.2	34		15	66
Pekoa (1971-2019)	57	644.6	43		1	60
Lamap (1961-2019)	59	496.0	41		3	66
Southern Region						
Bauerfield (1972-2019)	67	581.0	33		17	70
Port Vila (1953-2019)	65	535.0	35		11	64
Whitegrass (1972-2019)	71	273.7	29		18	68
Aneityum (1952-2019)	57	572.2	43		2	61

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region							
Sola (1971-2019)	42	1008.2	35	1269.1	23	7	34
Pekoa (1971-2019)	41	474.0	31	771.7	28	2	31
Lamap (1961-2019)	45	387.8	30	575.1	25	5	35
Southern Region							
Bauerfield (1972-2019)	36	466.6	39	747.7	25	2	44
Port Vila (1953-2019)	45	426.2	32	635.2	23	10	49
Whitegrass (1972-2019)	47	214.4	33	333.3	20	10	49
Aneityum (1952-2019)	44	427.4	29	650.6	27	5	42

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Northern Region					
Sola	76	923.0	12	1212.0	12
Pekoa	82	461.0	13	726.0	5
Lamap	82	396.0	13	592.0	5
Southern Region					
Bauerfield	73	476.0	21	691.0	6
Port Vila	73	426.0	21	639.0	6
Whitegrass	79	202.0	15	324.0	6
Aneityum	76	408.0	6	658.0	18

Summary Statements

Rainfall for February 2019:

Rainfall was normal for Lamap and Port Vila, and above normal for Sola, Pekoa, Bauerfield, Whitegrass and Aneityum.

Aneityum recorded the sixth wettest February on record.

Accumulated rainfall for December 2018 to February 2019, including outlook verification:

Accumulated rainfall was below normal for Lamap, normal for all stations in the Southern Region, and above normal for Sola and Pekoa.

The outlooks issued in October 2018 were Consistent at Lamap, Inconsistent Sola and Pekoa, and Near-consistent at all stations in the Southern Region.

Outlooks for April to June 2019:

1. SCOPIC:

At Sola, Pekoa, Lamap, Port Vila, Whitegrass and Aneityum, the outlook for the April to June 2019 shows below normal as the most likely outcome, with normal the next most likely. Above normal is the least likely.

At Bauerfield, the outlook shows a near-equal likelihood of below-normal and normal rainfall. Above-normal is the least likely.

2. POAMA:

Outlook favours below normal for all stations in Vanuatu.

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

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

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

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

Country	Date	Activities	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu		Van KIRAP review	Sectors (Fisheries, Tourism, Infrastructure, Agriculture) and VMGD	27	19	18
Vanuatu		Monthly Climate Briefing	VMGD/ Ministry of Climate Change	20	8	12
Vanuatu		VCU Distribution	Efate Community Notice boards			
Vanuatu		EAR Watch	Email to Stakeholders email List	30	18	12