

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 140

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2019	Mar-2019	Apr-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)	506.6	488.0	534.4	344.0	496.4	433.8	35/47
Pekoa (1971-2019)	400.3	111.5	213.5	185.3	293.6	240.3	22/49
Lamap (1961-2019)	174.5	106.0	411.0	162.2	232.0	197.6	56/59
Southern Region							
Bauerfield (1972-2019)	365.6	104.3	254.3	160.1	272.2	190.0	30/47
Port Vila (1953-2019)	242.5	156.5	225.0	137.3	266.5	182.4	39/67
Whitegrass (1972-2019)	253.5	97.9	71.3	55.7	137.8	90.5	21/48
Aneityum (1952-2019)	535.0	182.3	664.2	149.9	263.2	197.3	66/68

TABLE 2: Three-month Rainfall for February to April 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 October-November 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Northern Region											
Sola (1971-2019)	1529.0	Above normal	1047.7	1323.4	1151.2	42/47	42	32	26	1	Inconsistent
Pekoa (1971-2019)	725.3	Below normal	738.5	952.5	844.5	17/49	29	38	33	-2	Near-consistent
Lamap (1961-2019)	691.5	Normal	634.8	756.2	700.9	30/59	39	39	22	3	Near-consistent
Southern Region											
Bauerfield (1972-2019)	724.2	Below normal	786.0	1000.1	919.8	13/47	42	32	26	3	Consistent
Port Vila (1953-2019)	624.0	Below normal	770.6	922.3	856.2	15/67	44	36	20	6	Consistent
Whitegrass (1972-2019)	422.7	Normal	421.7	587.5	513.8	17/48	45	38	17	8	Near-consistent
Aneityum (1952-2019)	1381.5	Above normal	682.4	919.8	827.2	64/68	36	38	26	-1	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region						
Sola (1971-2019)	72	760.3	28		15	63
Pekoa (1971-2019)	87	390.5	13		26	71
Lamap (1961-2019)	73	287.5	27		9	64
Southern Region						
Bauerfield (1972-2019)	61	331.0	39		1	54
Port Vila (1953-2019)	76	313.2	24		11	62
Whitegrass (1972-2019)	75	164.8	25		12	63
Aneityum (1952-2019)	68	391.4	32		5	58

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)	61	583.8	18	1005.9	21	9	35
Pekoa (1971-2019)	57	242.5	26	453.3	17	10	42
Lamap (1961-2019)	56	235.7	25	339.7	19	6	45
Southern Region							
Bauerfield (1972-2019)	56	261.4	22	375.1	22	5	26
Port Vila (1953-2019)	62	243.6	18	407.7	20	8	52
Whitegrass (1972-2019)	56	137.4	24	230.5	20	7	41
Aneityum (1952-2019)	53	309.1	30	442.6	17	6	45

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Northern Region					
Sola	76	510.0	18	739.0	6
Pekoa	76	242.0	19	399.0	5
Lamap	76	196.0	19	361.0	5
Southern Region					
Bauerfield	64	320.0	21	373.0	15
Port Vila	64	241.0	21	362.0	15
Whitegrass	70	121.0	21	193.0	9
Aneityum	58	291.0	30	429.0	12

Summary Statements

Rainfall for April 2019:

Rainfall for April 2019 was normal to above normal across Vanuatu. Sola, Lamap and Aneityum recorded above normal rainfall, with Lamap and Aneityum being their fourth and third-wettest April on record respectively.

The remaining stations recorded normal rainfall.

Accumulated rainfall for February to April 2019, including outlook verification:

Sola and Aneityum recorded above normal rainfall. Verification was Near-consistent at Aneityum, and Inconsistent at Sola.

Pekoa, Bauerfield and Port Vila recorded below normal rainfall. Verification was Consistent at Bauerfield and Port Vila, while Pekoa's was Near-consistent.

Lamap and Whitegrass recorded normal rainfall; both were verified as Near-consistent.

Aneityum recorded the 5th highest February to April rainfall on record.

Outlooks for June to August 2019:

1. SCOPIC:

Outlook favours below normal rainfall for all stations in Vanuatu.

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

Product	Date: April 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Early Action Rainfall Watch	17th	VMGD General Public	20 Community boards 34 Emails VCAN + VHT Website		
Vanuatu Climate Update	17th	VMGD General Public	20 Community boards 34 Emails VCAN + VHT Website		
Monthly Climate Summary	17th	VMGD General Public	20 Community boards 34 Emails VCAN + VHT Website		
Radio Talk Back Show	23rd	VMGD VBTC	General Public		
VMGD Ocean Refresher Training	23rd – 26th	VMGD Climate Officers	14	11	3
Monthly Climate Briefing	29th	VMGD USP UNSW Sydney VAN-Kirap Action Aid WWW	11	6	5
TV Talk Back Show	30th	VMGD VBTC	General Public		