

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 149

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2019	Dec-2019	Jan-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)		133.0	500.8	315.7	455.8	386.7	37/48
Pekoa (1971-2020)	183.1	149.4	293.5	223.4	338.9	285.1	30/50
Lamap (1961-2020)	124.5	102.5	164.0	172.0	270.6	213.6	20/60
Southern Region							
Bauerfield (1972-2020)	52.6	162.8	113.1	205.1	301.2	254.4	8/49
Port Vila (1953-2020)	36.0	88.0	112.2	199.6	318.0	243.0	12/68
Whitegrass (1972-2020)	0.5	86.9	107.7	109.2	200.6	164.7	17/49
Aneityum (1952-2020)	20.8	337.3		150.9	330.0	225.8	

TABLE 2: Three-month Rainfall for November 2019 to January 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 August-September 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Northern Region											
Sola (1971-2020)			1045.6	1357.6	1186.0		34	34	32	4	
Pekoa (1971-2020)	626.0	Normal	589.7	818.4	621.2	26/49	36	38	26	18	Consistent
Lamap (1961-2020)	391.0	Below normal	436.6	549.2	473.1	19/59	35	37	28	12	Near-consistent
Southern Region											
Bauerfield (1972-2020)	328.5	Below normal	450.6	680.8	565.5	3/47	35	38	27	18	Near-consistent
Port Vila (1953-2020)	236.2	Below normal	429.8	669.2	569.2	3/67	36	39	25	23	Near-consistent
Whitegrass (1972-2020)	195.1	Below normal	265.3	399.6	327.5	9/48	35	40	25	23	Near-consistent
Aneityum (1952-2020)			424.3	673.2	600.7		35	35	30	12	

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2020

Predictor and Period used: NINO3.4 for December 2019 to January 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region						
Sola (1971-2020)	61	1298.3	39		13	68
Pekoa (1971-2020)	55	699.9	45		0	63
Lamap (1961-2020)	54	615.3	46		1	59
Southern Region						
Bauerfield (1972-2020)	56	749.0	44		0	60
Port Vila (1953-2020)	59	715.1	41		4	60
Whitegrass (1972-2020)	63	363.4	37		14	73
Aneityum (1952-2020)	54	726.4	46		-1	55

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 (1971-2020)	43	1151.1	30	1379.0	27	11	45
Pekoa (1971-2020)	39	607.6	32	866.8	29	4	53
Lamap (1961-2020)	39	577.4	35	724.3	26	4	49
Southern Region							
Bauerfield (1972-2020)	38	600.3	31	875.8	31	1	32
Port Vila (1953-2020)	39	602.8	34	819.7	27	5	46
Whitegrass (1972-2020)	42	323.9	39	468.1	19	14	46
Aneityum (1952-2020)	38	604.8	33	886.6	29	1	37

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Northern Region					
Sola	67	928.0	15	1363.0	18
Pekoa	61	617.0	21	808.0	18
Lamap	61	574.0	21	721.0	18
Southern Region					
Bauerfield	43	590.0	33	817.0	24
Port Vila	43	506.0	33	772.0	24
Whitegrass	52	304.0	27	405.0	21
Aneityum	46	598.0	27	862.0	27

Summary Statements

Rainfall for January 2020:

Rainfall was above-normal at Sola, normal at Pekoa, and below-normal at Lamap, Bauerfield, Port Vila and Whitegrass.

Accumulated rainfall for November 2019 to January 2020, including outlook verification:

Accumulated rainfall was normal at Pekoa, and below normal at Lamap, Bauerfield, Port Vila and Whitegrass. Bauerfield and Port Vila recorded their third driest November to January on record.

Verification was Consistent at one site, and Near-consistent at four sites.

Three-month rainfall totals for Sola and Aneityum were not available.

Outlooks for March to May 2020:

1. SCOPIC:

Sola, Lamap, Port Vila – outlook shows below-normal as the most likely outcome, with normal the next most likely. Above-normal is the least likely.

Whitegrass – the outlook shows a near-equal likelihood of below-normal and normal rainfall. Above normal is the least likely.

Pekoa, Bauerfield, Aneityum – the outlook offers little guidance as the chances of below-normal, normal, and above-normal are similar.

2. POAMA:

Sola, Pekoa, Lamap, Whitegrass – outlook favours below-normal rainfall.

Bauerfield, Port Vila – outlook shows below-normal as the most likely outcome, with normal the next most likely. Above-normal is the least likely.

Aneityum – outlook shows below-normal as the most likely outcome, with an equal likelihood of normal and above-normal as the next most likely outcomes.

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: January 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	16 th	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), Others.	206	104	102
EAR Watch	16 th	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), Others.	206	104	102
Vanuatu Ocean Outlook	21 st	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), Others.	206	104	102
Vanuatu Climate Summary	21 st	VMGD-Van-KIRAP Staffs, Oxfam Vanuatu, Action Aid Vanuatu, University of the South Pacific (USP), Vanuatu Statistics Office, SPREP, Vanuatu National Disaster Management Office (NDMO), Media-Vanuatu, Vanuatu Red Cross Society, Matevulu College, Onesua Presbyterian College, Aore Adventist College, Tafea College, CSU, Vanuatu Care International, Save the Children Vanuatu, UNDP, Shefa Education, Live & Learn, UN-Women, Vanuatu Christian Council (VCC), GCF Private Consultants, Vanuatu Society of People Living with Disability, Unelco Vanuatu, World Health Organization, Vanuatu Meteorology & Geo-Hazards Department (Staffs), Others.	206	104	102
Climate Awareness	20 th 22 nd 23 rd 24 th 29 th	Sama Community Siviri Community Malafau Community Tanoliu Community Lelepa Landing	70 16 23 40 19	28 8 8 17 9	42 8 15 23 10
Total			374	174	200