Pacific Islands - Online Climate Outlook Forum (OCOF) No. 148

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2019	Nov-2019	Dec-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)	395.7		133.0	236.6	460.4	353.9	7/46
Pekoa (1971-2019)	90.4	183.1	149.4	149.8	225.0	179.9	16/49
Lamap (1961-2019)	74.0	124.5	102.5	102.4	160.8	123.0	21/59
Southern Region							
Bauerfield (1972-2019)	76.8	52.6	162.8	125.6	200.4	171.6	23/47
Port Vila (1953-2019)	40.5	36.0	88.0	112.8	212.2	172.0	14/67
Whitegrass (1972-2019)	3.4	0.5	86.9	49.3	100.1	76.0	28/49
Aneityum (1952-2019)		20.8	337.3	108.0	238.7	160.5	59/68

TABLE 2: Three-month Rainfall for October to December 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 July-August 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Northern Region											
Sola (1971-2019)			922.3	1350.0	1173.3		**40**	31	29	8	
Pekoa (1971-2019)	422.9	Normal	418.5	612.1	526.2	17/49	**44**	42	14	24	Near-consistent
Lamap (1961-2019)	301.0	Below normal	336.6	453.5	371.4	15/59	**42**	41	17	15	Consistent
Southern Region											
Bauerfield (1972-2019)	292.2	Below normal	339.6	561.7	447.8	15/47	**40**	36	24	14	Consistent
Port Vila (1953-2019)	164.5	Below normal	311.1	500.4	428.8	**5/67**	**44**	37	19	21	Consistent
Whitegrass (1972-2019)	90.8	Below normal	140.6	215.5	184.3	8/48	**43**	41	16	27	Consistent
Aneityum (1952-2019)			311.0	503.7	398.3		**46**	38	16	23	

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2020

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region						
Sola (1971-2019)	53	1162.3	47		-1	55
Pekoa (1971-2019)	51	834.0	49		-2	35
Lamap (1961-2019)	56	700.9	44		5	61
Southern Region						
Bauerfield (1972-2019)	54	905.3	46		1	60
Port Vila (1953-2019)	56	854.8	44		4	64
Whitegrass (1972-2019)	57	500.9	43		4	60
Aneityum (1952-2019)	52	830.8	48		-1	50

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)	37	1056.4	33	1326.5	30	1162	38
Pekoa (1971-2019)	33	722.4	34	948.9	33	834	27
Lamap (1961-2019)	36	628.1	37	755.1	27	701	31
Southern Region							
Bauerfield (1972-2019)	37	771.3	32	999.8	31	905	26
Port Vila (1953-2019)	40	769.1	35	920.5	25	855	46
Whitegrass (1972-2019)	39	427.0	35	579.7	26	501	44
Aneityum (1952-2019)	36	685.7	34	948.7	30	831	34

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Northern Region					
Sola	49	927.0	27	1315.0	24
Pekoa	70	719.0	6	976.0	24
Lamap	70	609.0	6	744.0	24
Southern Region					
Bauerfield	55	796.0	21	983.0	24
Port Vila	55	773.0	21	911.0	24
Whitegrass	58	427.0	24	580.0	18
Aneityum	55	733.0	27	979.0	18

Summary Statements

Rainfall for December 2019:

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

Accumulated rainfall for October to December 2019, including outlook verification:

Accumulated rainfall was below normal at Lamap, Bauerfield, Port Vila and Whitegrass, and normal at Pekoa. Unfortunately, accumulated rainfall totals for Sola and Aneityum were not available.

The outlook issued in September was Consistent at nearly all sites, the one exception being a Near-consistent verification at Pekoa.

Outlooks for February to April 2020:

1. **SCOPIC:**

   For Lamap, the outlook shows a near-equal likelihood of below normal and normal rainfall. Above normal is the least likely.
   For Port Vila and Whitegrass, the outlook shows below normal as the most likely outcome, with normal the next most likely. Above normal is the least likely.
   For Sola, Pekoa, Bauerfield and Aneityum, the outlook offers little guidance as the chances of above normal, normal and below normal are similar.

2. **POAMA:**

   The outlook favours below normal for all stations across the country.

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

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

Product	Date: December 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	13th	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	13th	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
	Total	22 Stakeholders	**206** Participants + General Public	**104** Male stakeholder participants	**102** female stakeholder participants