

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 150

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2019	Jan-2020	Feb-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2020)	133.0	500.8	266.4	268.9	385.6	327.9	16/48
Pekoa (1971-2020)	149.4	293.5	511.1	208.3	360.5	277.7	44/50
Lamap (1961-2020)	102.5	164.0	293.0	165.5	261.6	224.8	45/60
Southern Region							
Bauerfield (1972-2020)	162.8	113.1	235.9	245.9	357.3	288.9	16/48
Port Vila (1953-2020)	88.0	112.2	204.3	214.4	296.9	250.7	19/68
Whitegrass (1972-2020)	86.9	107.7	236.8	115.6	221.5	169.4	34/49
Aneityum (1952-2020)	337.3	961.4	815.7	186.3	297.0	230.9	

TABLE 2: Three-month Rainfall for December 2019 to February 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Northern Region</i>											
Sola (1971-2020)	900.2	Below normal	1003.3	1213.2	1120.0	13/45	35	34	31	1	Consistent
Pekoa (1971-2020)	954.0	Above normal	687.2	882.7	756.2	35/49	36	34	30	2	Inconsistent
Lamap (1961-2020)	559.5	Normal	493.6	690.2	578.0	24/59	39	34	27	12	Near-consistent
<i>Southern Region</i>											
Bauerfield (1972-2020)	511.8	Below normal	643.8	874.7	778.3	10/46	38	37	25	18	Consistent
Port Vila (1953-2020)	404.5	Below normal	608.6	808.9	703.2	6/67	41	36	23	18	Consistent
Whitegrass (1972-2020)	431.4	Normal	354.1	537.8	481.2	22/48	39	35	26	10	Near-consistent
Aneityum (1952-2020)	2114.4	Above normal	562.7	863.2	700.1		40	31	29	8	

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

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Northern Region</i>						
Sola (1971-2020)	62	1176.7	38		14	64
Pekoa (1971-2020)	55	633.0	45		2	65
Lamap (1961-2020)	55	501.5	45		2	64
<i>Southern Region</i>						
Bauerfield (1972-2020)	63	578.7	37		16	68
Port Vila (1953-2020)	61	532.4	39		12	67
Whitegrass (1972-2020)	65	264.2	35		19	69
Aneityum (1952-2020)	54	572.6	46		1	60

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Northern Region</i>							
Sola (1971-2020)	39	1034.9	36	1261.8	25	9	38
Pekoa (1971-2020)	40	472.6	31	765.9	29	3	35
Lamap (1961-2020)	41	389.8	30	585.2	29	7	48
<i>Southern Region</i>							
Bauerfield (1972-2020)	36	453.8	39	744.8	25	2	43
Port Vila (1953-2020)	40	415.9	35	634.5	25	10	48
Whitegrass (1972-2020)	43	208.2	35	329.2	22	12	44
Aneityum (1952-2020)	40	430.6	31	651.7	29	5	39

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Northern Region					
Sola	64	923.0	6	1212.0	30
Pekoa	49	461.0	24	726.0	27
Lamap	49	396.0	24	592.0	27
Southern Region					
Bauerfield	52	476.0	33	691.0	15
Port Vila	52	426.0	33	639.0	15
Whitegrass	49	202.0	27	324.0	24
Aneityum	64	408.0	9	658.0	27

Summary Statements

Rainfall for February 2020:

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

Accumulated rainfall for December 2019 to February 2020, including outlook verification:

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

Port Vila recorded its 6th driest December to February on record.

Verification was consistent at three sites, near-consistent at two sites, and inconsistent at one site.

Outlooks for April to June 2020:

1. SCOPIC:

For Pekoa, Lamap, Port Vila, Whitegrass and Aneityum, the outlook shows below normal as the most likely outcome, with normal the next most likely. Above normal is the least likely.

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

2. POAMA:

Below normal is the favoured or most likely outcome for all sites across 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: January 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	25th	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	17th	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	17th	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	17th	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			374	174	200