Pacific Islands - Online Climate Outlook Forum (OCOF) No. 146

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2019	Sep-2019	Oct-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)	374.6	274.9	322.5	210.8	448.0	317.8	25/48
Pekoa (1971-2019)	78.7	54.9	90.4	87.6	172.6	130.0	18/49
Lamap (1961-2019)	16.5	95.5	74.0	64.4	165.0	100.5	25/59
Southern Region							
Bauerfield (1972-2019)	39.4	108.1	76.8	56.9	143.0	100.4	21/47
Port Vila (1953-2019)	40.7	115.0	40.5	57.5	130.5	93.2	15/67
Whitegrass (1972-2019)	1.1	83.4	3.4	21.9	60.8	34.1	**5/48**
Aneityum (1952-2019)	143.0	179.2	826.5	62.1	139.9	90.0	**68/68**

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Northern Region											
Sola (1971-2019)	972.0	Above normal	628.0	929.9	811.9	32/46	**51**	29	20	5	Inconsistent
Pekoa (1971-2019)	224.0	Below normal	257.5	427.2	342.9	15/49	**56**	30	14	16	Consistent
Lamap (1961-2019)	186.0	Below normal	222.8	342.3	271.0	15/59	**60**	24	16	13	Consistent
Southern Region											
Bauerfield (1972-2019)	224.3	Normal	204.3	320.8	275.8	20/47	**56**	36	8	21	Near-consistent
Port Vila (1953-2019)	196.2	Below normal	219.9	337.1	294.4	21/67	**56**	37	7	19	Consistent
Whitegrass (1972-2019)	87.9	Below normal	112.0	180.6	149.4	13/47	**61**	24	15	14	Consistent
Aneityum (1952-2019)	1148.7	Above normal	270.5	387.7	333.0	**68/68**	**53**	29	18	7	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2019 to February 2020

Predictor and Period used: NINO3.4 for September to October 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region						
Sola (1971-2019)	53	1120.0	47		0	47
Pekoa (1971-2019)	52	756.2	48		0	50
Lamap (1961-2019)	55	578.0	45		4	60
Southern Region						
Bauerfield (1972-2019)	57	778.3	43		17	64
Port Vila (1953-2019)	61	703.2	39		17	65
Whitegrass (1972-2019)	57	481.2	43		9	62
Aneityum (1952-2019)	57	700.1	43		8	67

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)	35	1003.3	34	1213.2	31	1	35
Pekoa (1971-2019)	36	687.2	34	882.7	30	2	35
Lamap (1961-2019)	39	493.6	34	690.2	27	12	52
Southern Region							
Bauerfield (1972-2019)	38	643.8	37	874.7	25	18	49
Port Vila (1953-2019)	41	608.6	36	808.9	23	18	52
Whitegrass (1972-2019)	39	354.1	35	537.8	26	10	47
Aneityum (1952-2019)	40	562.7	31	863.2	29	8	45

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2019 to February 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Northern Region					
Sola	6	855.0	24	1127.0	**70**
Pekoa	9	693.0	12	918.0	**79**
Lamap	9	487.0	12	649.0	**79**
Southern Region					
Bauerfield	12	604.0	24	867.0	**64**
Port Vila	12	579.0	24	750.0	**64**
Whitegrass	6	332.0	21	494.0	**73**
Aneityum	12	475.0	24	899.0	**64**

Summary Statements

Rainfall for October 2019:

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

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

Accumulated rainfall was below normal for Pekoa, Lamap, Port Vila and Whitegrass, with Consistent verification.

At Bauerfield, accumulated rainfall was normal with Near-consistent verification.

At Sola and Aneityum, accumulated rainfall was above normal with Inconsistent verification.

Outlooks for December 2019 to February 2020:

1. **SCOPIC:**
   At Lamap, Port Vila, Whitegrass and Aneityum, the outlook for December 2019 to February 2020 shows below normal rainfall as the most likely outcome, with normal rainfall 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.

   The outlook offers little guidance for Sola and Pekoa as the chances of above-normal, normal and below-normal rainfall are similar.

2. **POAMA:**
   The outlook favours above normal rainfall with normal the next most likely for all stations.

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: October 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	28th 28th 24th 23th	- 62 Stakeholder emails - 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum) - 20 community boards (Efate Island) -Local Farmers attending NCOF	- 62 - General Public - 10	36 10	26
EAR Watch	28th 28th	- 62 Stakeholder emails - 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)	- 62	36	26
Monthly Climate Summary	28th 28th	- 62 Stakeholder emails - 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)	- 62	36	26
Vanuatu Ocean Outlook	28th 28th	- 62 Stakeholder emails - 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)	- 62	36	26