

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 145

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2019	Aug-2019	Sep-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)	163.4	374.6	274.9	164.0	262.5	227.2	33/47
Pekoa (1971-2019)	52.3	78.7	54.9	60.7	141.9	82.4	16/49
Lamap (1961-2019)	58.0	16.5	95.5	42.8	105.3	75.3	36/59
Southern Region							
Bauerfield (1972-2019)	23.8	17.5	84.9	35.4	96.3	60.2	30/47
Port Vila (1953-2019)	31.5	40.7	115.0	45.4	105.2	74.4	47/67
Whitegrass (1972-2019)	7.3	1.1	83.4	17.9	61.8	29.7	36/47
Aneityum (1952-2019)	50.5	143.0	163.0	59.6	124.2	94.2	55/68

TABLE 2: Three-month Rainfall for July to September 2019

Station	Three-month Total	33%tile	67%tile	Median	Rank	SCOPIIC forecast probabilities based on NINO3.4 April-May 2019				Verification: Consistent, Near-consistent, Inconsistent?	
	Rainfall (mm)					B-N	N	A-N	LEPS		
<i>Northern Region</i>											
Sola (1971-2019)	812.9	Normal	528.7	838.9	617.8	29/45	56	27	17	7	Near-consistent
Pekoa (1971-2019)	185.9	Below normal	202.1	396.2	320.7	15/49	62	26	12	16	Consistent
Lamap (1961-2019)	170.0	Below normal	202.7	300.7	244.9	16/59	52	36	12	13	Consistent
<i>Southern Region</i>											
Bauerfield (1972-2019)	126.2	Below normal	183.2	281.5	236.4	6/47	69	24	7	29	Consistent
Port Vila (1953-2019)	187.2	Below normal	187.8	329.8	256.7	23/67	62	31	7	20	Consistent
Whitegrass (1972-2019)	91.8	Below normal	107.3	181.4	127.8	14/47	64	22	14	14	Consistent
Aneityum (1952-2019)	356.5	Normal	267.6	373.5	332.8	42/68	58	26	16	7	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2019 to January 2020
Predictor and Period used: NINO3.4 for August to September 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Northern Region						
Sola (1971-2019)	52	1186.0	48		5	61
Pekoa (1971-2019)	52	621.2	48		10	69
Lamap (1961-2019)	54	473.1	46		20	72
Southern Region						
Bauerfield (1972-2019)	52	565.5	48		24	74
Port Vila (1953-2019)	57	569.2	43		24	77
Whitegrass (1972-2019)	54	327.5	46		14	66
Aneityum (1952-2019)	54	600.7	46		10	61

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)	34	1045.6	34	1357.6	32	4	41
Pekoa (1971-2019)	36	589.7	38	818.4	26	18	46
Lamap (1961-2019)	35	436.6	37	549.2	28	12	53
Southern Region							
Bauerfield (1972-2019)	35	450.6	38	680.8	27	18	52
Port Vila (1953-2019)	36	429.8	39	669.2	25	23	50
Whitegrass (1972-2019)	35	265.3	40	399.6	25	23	51
Aneityum (1952-2019)	35	424.3	35	673.2	30	12	51

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2019 to January 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
<i>Northern Region</i>					
Sola	33	824.0	18	1228.0	49
Pekoa	52	383.0	12	597.0	36
Lamap	52	316.0	12	421.0	36
<i>Southern Region</i>					
Bauerfield	64	327.0	21	499.0	15
Port Vila	64	303.0	21	461.0	15
Whitegrass	61	116.0	15	186.0	24
Aneityum	55	286.0	30	413.0	15

Summary Statements

Rainfall for September 2019:

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

Accumulated rainfall for July to September 2019, including outlook verification:

Accumulated rainfall was below normal for Pekoa, Lamap, Bauerfield, Port Vila and Whitegrass, and the verification was Consistent at all sites.

At Sola and Aneityum, accumulated rainfall was normal with Near-consistent verification.

Outlooks for November 2019 to January 2020:

1. SCOPIC:

There is a near-equal likelihood of normal and below normal rainfall for Pekoa, Bauerfield and Port Vila; above normal is the least likely.

At Whitegrass, normal rainfall is the most likely outcome, and below normal the next most likely.

At remaining sites, the outlook offers little guidance as the chances of below normal, normal and above normal rainfall are similar.

2. POAMA:

Below normal rainfall is favoured at all stations, except for Sola where above normal is the most likely outcome, and below normal the next most likely.

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: September 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	20 th	- 62 Stakeholder emails	- 62	36	26
	20 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	20 th	- Climate website	- General Public		
	24 th	- 20 community boards (Efate Island)	- General Public		
EAR Watch	16 th	- 62 Stakeholder emails	- 62	36	26
	16 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	16 th	- Climate website	- General Public		
	24 th	- 20 community boards (Efate Island)	- General Public		
Monthly Climate Summary	27 th	- 62 Stakeholder emails	- 62	36	26
	27 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	27 th	- Climate website	- General Public		
Vanuatu Ocean Outlook	16 th	- 62 Stakeholder emails	- 62	36	26
	16 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	27 th	- Climate website	- General Public		
	24 th	- 20 community boards (Efate Island)	- General Public		