

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 144

Country: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2019	Jul-2019	Aug-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Region							
Sola (1971-2019)	242.5	163.4	344.1	124.2	263.3	187.8	36/46
Pekoa (1971-2019)	93.4	52.3	59.5	59.8	104.3	77.3	17/49
Lamap (1961-2019)	140.0	58.0	16.5	51.1	93.0	67.6	6/59
Southern Region							
Bauerfield (1972-2019)	121.3	23.8	17.5	47.5	93.0	65.1	4/47
Port Vila (1953-2019)	143.0	31.5	40.7	45.7	94.9	74.4	20/67
Whitegrass (1972-2019)	18.6	7.3	1.1	23.9	56.1	31.9	1/48
Aneityum (1952-2019)	238.3	50.5	143.0	72.8	138.2	102.9	47/68

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

Station	Three-month Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 March-April 2019				Verification: Consistent, Near-consistent, Inconsistent?	
	Rainfall (mm)					B-N	N	A-N	LEPS		
<i>Northern Region</i>											
Sola (1971-2019)	750.0	Normal	583.8	1005.9	760.3	22/44	61	18	21	8	Near-consistent
Pekoa (1971-2019)	205.2	Below normal	242.5	453.3	390.5	9/49	57	26	17	10	Consistent
Lamap (1961-2019)	214.5	Below normal	235.7	339.7	287.5	19/59	56	25	19	7	Consistent
<i>Southern Region</i>											
Bauerfield (1972-2019)	162.6	Below normal	261.4	375.1	331.0	6/47	56	22	22	8	Consistent
Port Vila (1953-2019)	215.2	Below normal	243.6	407.7	313.2	18/67	62	18	20	9	Consistent
Whitegrass (1972-2019)	27.0	Below normal	137.4	230.5	164.8	1/47	56	24	20	8	Consistent
Aneityum (1952-2019)	431.8	Normal	309.1	442.6	391.4	42/68	53	30	17	6	Near-consistent

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

Predictor and Period used: NINO3.4 for July to August 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Northern Region</i>						
Sola (1971-2019)	54	1173.3	46		1	58
Pekoa (1971-2019)	61	526.2	39		15	60
Lamap (1961-2019)	59	371.4	41		10	67
<i>Southern Region</i>						
Bauerfield (1972-2019)	65	447.8	35		25	74
Port Vila (1953-2019)	74	428.8	26		38	82
Whitegrass (1972-2019)	67	184.3	33		29	72
Aneityum (1952-2019)	66	398.3	34		21	69

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 (1971-2019)	40	922.3	31	1350.0	29	8	36
Pekoa (1971-2019)	44	418.5	42	612.1	14	24	54
Lamap (1961-2019)	42	336.6	41	453.5	17	15	47
<i>Southern Region</i>							
Bauerfield (1972-2019)	40	339.6	36	561.7	24	14	48
Port Vila (1953-2019)	44	311.1	37	500.4	19	21	47
Whitegrass (1972-2019)	43	140.6	41	215.5	16	27	45
Aneityum (1952-2019)	46	311.0	38	503.7	16	23	49

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
<i>Northern Region</i>					
Sola	36	824.0	15	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 August 2019:

Rainfall was above normal for Sola and Aneityum, and below normal for the other stations.

Whitegrass recorded its driest August in 48 years, while Bauerfield experienced its fourth driest August in 47 years.

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

Accumulated rainfall for Sola and Aneityum were normal. Verification was Near-consistent at both sites.

The other stations recorded below normal rainfall. All were verified Consistent. Whitegrass recorded its driest June to August in 47 years.

Outlooks for October to December 2019:

1. SCOPIC:

The outlook for Sola, Bauerfield, Port Vila, and Aneityum shows below normal as the most likely outcome, with normal the next most likely.

At Pekoa, Lamap, and Whitegrass, the outlook shows a near-equal likelihood of below-normal and normal rainfall.

2. POAMA:

For Sola, the outlook shows above normal as the most likely outcome, with below normal as the next most likely outcome.

All other stations the outlook favours below normal rainfall.

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: August 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Vanuatu Climate Update	15 th	- 62 Stakeholder emails	- 62	36	26
	15 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	20 th	- Climate website	- General Public		
	27 th	- 20 community boards (Efate Island)	- General Public		
EAR Watch	15 th	- 62 Stakeholder emails	- 62	36	26
	15 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	20 th	- Climate website	- General Public		
	27 th	- 20 community boards (Efate Island)	- General Public		
Monthly Climate Summary	15 th	- 62 Stakeholder emails	- 62	36	26
	15 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	20 th	- Climate website	- General Public		
	27 th	- 20 community boards (Efate Island)	- General Public		
Vanuatu Ocean Outlook	15 th	- 62 Stakeholder emails	- 62	36	26
	15 th	- 5 outer station emails (Sola, Pekoa, Lamap, Whitegrass, Aneityum)			
	20 th	- Climate website	- General Public		
	27 th	- 20 community boards (Efate Island)	- General Public		
Talk-back Show (TV)	30 th	- VBTC & VMGD			