Pacific Islands - Online Climate Outlook Forum (OCOF) No. 110

Country Name: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)	August 2016 Total	September 2016 Total	October 2016				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Northern Region							
Sola	77.5	197.6	**354**	203.8	474.5	329.3	24/45
Pekoa	68.1	47.8	**88.1**	90.1	177.2	133.3	16/46
Lamap	125	18.1	**217.4**	64.2	165.0	101.9	43/56
Southern Region							
Bauerfield	66.4	59	**195.4**	56.9	142.5	92.2	39/44
Port Vila	56.0	24.4	**142.2**	56.2	129.6	88.5	46/64
Whitegrass	53.2	1.3	**57.4**	19.7	57.0	34.1	30/45
Aneityum	78.1	29.8	**84.8**	60.9	139.9	89.6	32/65

TABLE 2: Three-monthly Rainfall

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent Inconsistent?)
Northern Region							
Sola	**629.1**	617.3	955.0	813.4	25/45	**61**:21:18(9.3)	**Near-consistent**
Pekoa	**204**	269.4	427.2	354.3	16/46	**63**:30:7(20.6)	**Consistent**
Lamap	**360.5**	216.3	330.1	*258.5*	43/56	**73**:20:7(19.8)	**Inconsistent**
Southern Region							
Bauerfield	**320.8**	204.3	314.3	273.7	39/44	**66**:31:3(31.5)	**Inconsistent**
Port Vila	**222.6**	219.9	337.1	295.1	46/64	**68**:29:3(27.2)	**Near-**

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*Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).

Forecast is <u>near-consistent</u> when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).

Forecast is <u>inconsistent</u> when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

							consistent
Whitegrass	**111.9**	*112.0*	*183.1*	151.2	30/45	**78**:15:7(22.0)	**Consistent**
Aneityum	**192.7**	280.5	387.7	336.0	32/65	**70**:18:12(13.7)	**Consistent**

August to October 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #106]

Period:*below normal/normal/above normal

Predictors and Period used for August to October 2016 Outlooks (refer to OCOF #106)**:**
April – June 2016, NINO 3.4 SST Anomalies

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2016 to February 2017

Predictors and Period used: NINO 4.3 SST Anomalies

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Northern Region						
Sola	46	1112.6	54		-0.6	50.0
Pekoa	44	756.5	56		0.8	53.3
Lamap	40	584.0	60		3.6	58.5
Southern Region						
Bauerfield	28	799.4	72		23.9	71.4
Port Vila	33	712.4	67		21.3	71.4
Whitegrass	37	488.2	63		10.1	61.4
Aneityum	40	723.3	60		7.6	65.6

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Northern Region							
Sola	28	1003.3	33	1204.9	39	0.2	30.0
Pekoa	27	704.9	34	917.9	39	1.6	37.8
Lamap	19	504.6	38	693.2	43	12.0	54.7
Southern Region							
Bauerfield	13	643.8	38	898.7	49	22.9	54.8
Port Vila	15	611.9	38	816.5	47	23.3	57.1
Whitegrass	*18*	*354.1*	*35*	*546.7*	*47*	*17.4*	*50.0*
Aneityum	19	574.3	40	878.7	41	9.5	48.4

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2016 to February 2017

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Northern Region							
Sola	9	855	15	1127	76		
Pekoa	15	693	12	918	73		
Lamap	15	487	12	649	73		
Southern Region							
Bauerfield	6	604	12	867	82		
Port Vila	6	579	12	750	82		
Whitegrass	*9*	*332*	*9*	*494*	82		
Aneityum	9	475	9	899	82		

Summary Statements

Rainfall for October 2016:
Rainfall for the past month (October) was; below normal for Pekoa and normal for Sola and Aneityum. Above normal rainfall was recorded at Lamap, Bauerfield, Port Vila and Whitegrass.

Accumulated rainfall for August to October 2016, including outlook verification:
Rainfall for the past three months was below normal for Pekoa, Whitegrass and Aneityum, normal for Sola and Port Vila and above normal for Bauerfield and Lamap.

The outlook was consistent for Pekoa, Whitegrass and Aneityum, near-consistent for Sola and Port Vila and inconsistent for Bauerfield and Lamap.

**Outlooks for December 2016 to February 2017:**
1. SCOPIC:

Using NINO 3.4 SST Anomalies;
The outlooks for all the stations (Sola, Pekoa, Lamap, Bauerfield, Port Vila, Whitegrass and Aneityum) favour above normal rainfall for the coming season with normal being the next most likely.

2. POAMA:

The outlooks for all stations (Sola, Pekoa, Lamap, Bauerfield, Port Vila, Whitegrass and Aneityum) favour above normal rainfall for the coming season with normal being the next most likely for Sola, Bauerfield, Port Vila. Below normal is the next most likely at Pekoa and Lamap.

There are equal chances of normal and below normal being the next most likely at Whitegrass and Aneityum.
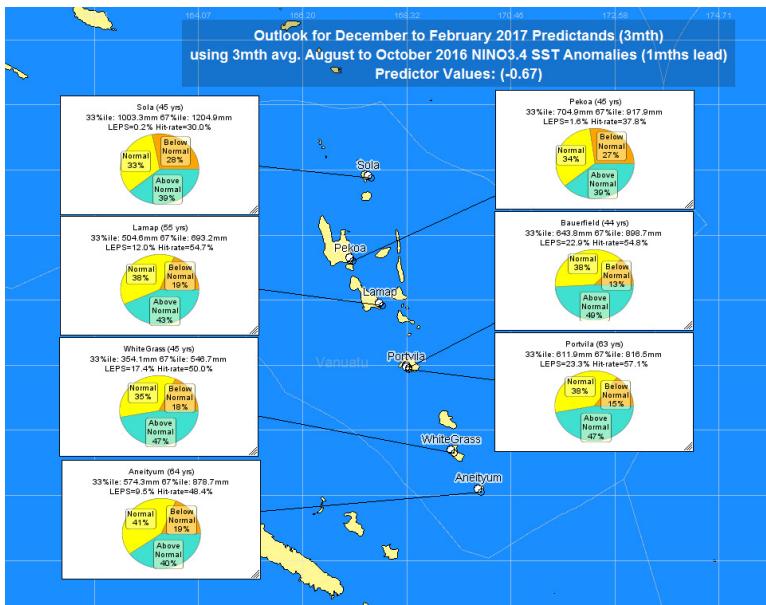
NB: The X LEPS % score has been categorised as follows:

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