Pacific Islands - Online Climate Outlook Forum (OCOF) No. 106

Country Name: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)			June 2016				
	April 2016 Total	May 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Northern Region							
Sola	329.1	65.7	137.7	219.2	429.5	321.6	6/42
Pekoa	348.9	24.0	101.8	97.1	254.6	161.7	18/46
Lamap	242.0	6.0	65.4	77.8	169.4	104.8	12/55
Southern Region							
Bauerfield	186.8	36.6	92.5	109.2	194.2	135.8	13/44
Port Vila	73.2	30.6	76.2	89.9	162.8	127.0	17/64
Whitegrass	59.1	52.3	56.8	44.8	98.0	70.4	18/45
Aneityum	122.9	73.2	100.3	104.1	173.7	145.0	22/65

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	532.5	1064.4	1269.1	1189.8	1/42	**50**:49:1(19.5)	**Consistent**
Pekoa	474.7	475.7	791.5	656.3	11/45	**56**:12:32(-2.0)	**Consistent**
Lamap	313.4	385.5	587.1	507.0	4/55	**69**:19:12(5.3)	**Consistent**
Southern Region							
Bauerfield	315.9	472.2	747.7	583.4	10/43	44:**47**:9(4.9)	**Near-consistent**
Port Vila	180	432.6	637.5	537.6	7/63	**64**:22:14(4.9)	**Consistent**

*Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability) cat59:22:14(4.9_egories 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).

Whitegrass	**168.2**	214.4	333.3	264.2	9/45	**59**:33:8(5.0)	**Consistent**
Aneityum	**296.4**	427.4	650.6	572.6	22/65	**86**:7:7(9.6)	**Consistent**

April to June 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #102]

Period:*below normal/normal/above normal

Predictors and Period used for April to June 2016 Outlooks (refer to OCOF #102)**: Nino 3.4 SST Anomalies, December 2015-February 2016.**

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2016

Predictors and Period used: Nino 3.4 SST Anomalies, April – June 2016.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Northern Region						
Sola	77	813.4	23		13.5	64.3
Pekoa	82	354.3	18		14.1	57.8
Lamap	*83*	*258.5*	*17*		*17.3*	*67.3*
Southern Region						
Bauerfield	88	273.7	12		26.4	67.4
Port Vila	90	295.1	10		26.7	68.3
Whitegrass	74	151.2	26		10.9	62.8
Aneityum	78	336.0	22		11.6	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	61	617.3	21	955.0	18	9.3	38.1
Pekoa	63	269.4	30	427.2	7	20.6	46.7
Lamap	73	216.3	20	330.1	7	19.8	50.9
Southern Region							
Bauerfield	66	204.3	31	314.3	3	31.5	62.8
Port Vila	68	219.9	29	337.1	3	27.2	50.8
Whitegrass	*78*	*112.0*	*15*	*183.1*	*7*	*22.0*	*48.8*
Aneityum	70	280.5	18	387.7	12	13.7	43.8

TABLE 4: Seasonal Climate Outlooks using POAMA2 for

August to October 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Northern Region							
Sola	18	490	36	807	46		
Pekoa	36	232	30	360	34		
Lamap	36	210	30	294	34		
Southern							

Region							
Bauerfield	33	19.3	27	28.5	**40**		
Port Vila	33	169	27	300	**40**		
Whitegrass	*33*	*78*	*33*	*159*	*34*		
Aneityum	27	196	**45**	341	28		

Summary Statements

Rainfall for June 2016:
Rainfall for the past month was below normal for all stations except for Pekoa and Whitegrass which recorded normal rainfall.

Accumulated rainfall for April to June 2016, including outlook verification:
Rainfall for the past three months was below normal for all stations (Sola, Pekoa, Lamap, Bauerfield, Port Vila, Aneityum and White Grass). Sola recorded the driest for the period April – June.
The outlook was consistent for all stations (Sola, Pekoa, Lamap, Port Vila, Aneityum and White Grass) except Bauerfield which was near consistent.

Outlooks for August to October 2016:
1. SCOPIC:
Using NINO 3.4 SST Anomalies;
The outlook favours below normal for all stations with normal being the next most likely.

2. POAMA:

- The outlook favours above normal rainfall for Sola, Bauerfield and Port Vila.

- The most likely outcome at Aneityum is normal rainfall.

- The outlook offers little guidance for Pekoa, Lamap and Whitegrass for the coming season

NB: The X LEPS % score has been categorised as follows:

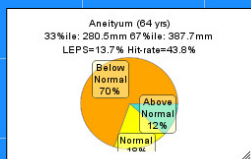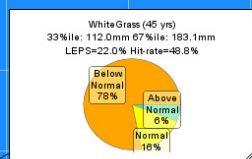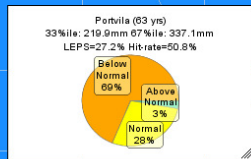Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25
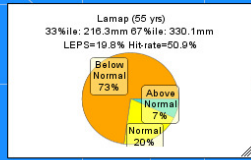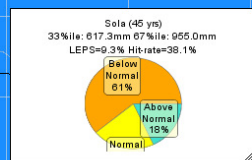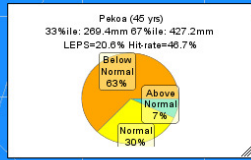
Very High: 25 ≤X < 35   Exceptional: X ≥ 35

Outlook for August to October 2016 Predictands (3mth)
using 3mth avg. April to June 2016 NINO3.4 SST Anomalies (1mths lead)
Predictor Values: (0.71)

Pekoa (45 yrs)
33%ile: 269.4mm 67%ile: 427.2mm
LEPS=20.6% Hit-rate=46.7%

Below Normal 63%
Above Normal 7%
Normal 30%

Sola (45 yrs)
33%ile: 617.3mm 67%ile: 955.0mm
LEPS=9.3% Hit-rate=38.1%

Below Normal 61%
Above Normal 18%
Normal

Lamap (55 yrs)
33%ile: 216.3mm 67%ile: 330.1mm
LEPS=19.8% Hit-rate=50.9%

Below Normal 73%
Above Normal 7%
Normal 20%

Bauerfield (44 yrs)
33%ile: 204.3mm 67%ile: 314.3mm
LEPS=31.5% Hit-rate=62.8%

Below Normal 66%
Above Normal 3%
Normal 31%

Portvila (63 yrs)
33%ile: 219.9mm 67%ile: 337.1mm
LEPS=27.2% Hit-rate=50.8%

Below Normal 69%
Above Normal 3%
Normal 28%

WhiteGrass (45 yrs)
33%ile: 112.0mm 67%ile: 183.1mm
LEPS=22.0% Hit-rate=48.8%

Below Normal 78%
Above Normal 6%
Normal 16%

Aneityum (64 yrs)
33%ile: 280.5mm 67%ile: 387.7mm
LEPS=13.7% Hit-rate=43.8%

Below Normal 70%
Above Normal 12%
Normal

Vanuatu