

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 66

Country Name: Vanuatu

TABLE 1: Monthly Rainfall

Station (include data period)			February 2013				
	December 2012 Total	January 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Northern Region							
Sola	291.7	538.7	556.4	291.1	389.4	348.3	52/59
Pekoa	160.5	262.1	549.6	216.8	365.3	280.6	40/43
Lamap	312.9	138.3	239.0	181.9	280.9	232.4	28/53
Southern Region							
Bauerfield	190.7	100.8	250.8	251.0	350.2	284.4	14/41
Port Vila	208.8	102.1	211.9	222.7	313.5	256.2	18/61
Whitegrass	34.4	30.0	190.2	113.0	229.2	158.4	25/42
Aneityum	136.7	160.4	227.0	191.0	306.6	232.8	29/62

**TABLE 2: Three-monthly Rainfall
December 2012 to February 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #62]

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	1386.8	1001.6	1205.1	1100.3	49/58	32.3:34.3:33.4(1.3)	Near-consistent
Pekoa	972.2	680.0	883.1	756.5	31/42	42.8:17.3:39.9(-0.8)	Inconsistent
Lamap	690.2	538.4	712.9	584.0	33/52	50.9:32.9:16.2(10.6)	Near-consistent
Southern Region							
Bauerfield	542.3	679.5	871.5	797.1	8/39	59.8:20.2:19.9(21.3)	Consistent
Port Vila	522.8	626.2	821.4	737.4	10/60	44.8:31.3:23.9(17.4)	Consistent
Whitegrass	254.6	348.2	511.6	455.0	8/40	43.1:37.4:19.5(12.4)	Consistent
Aneityum	524.1	570.4	879.7	723.3	17/61	45.2:28.2:26.5(9.9)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for December 2012 to February 2013 Outlooks (refer to OCOF #62):

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
April to June 2013**

Predictors and Period used: SST1&9, December 2012 - February 2013

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
Northern Region					
Sola	49.4	1176.7	50.6	3.3	47.4
Pekoa	52.7	656.3	47.3	-0.3	58.5
Lamap	52.8	501.5	47.2	1.8	62.7
Southern Region					
Bauerfield	61.1	583.4	38.9	14.9	71.8
Port Vila	51.8	537.6	48.2	4.0	62.7
Whitegrass	48.1	253.2	51.9	11.1	63.4

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

Forecast is near-consistent 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 inconsistent when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

Aneityum	46.2	579.4	53.8		3.2	58.3
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Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Northern Region							
Sola	29.4	1001.3	32.9	1298.5	37.8	4.4	33.3
Pekoa	26.2	474.1	39.4	809.3	34.5	6.3	41.5
Lamap	31.1	385.5	32.8	595.9	36.1	6.7	43.1
Southern Region							
Bauerfield	35.9	487.0	32.2	741.9	32.0	1.5	38.5
Port Vila	30.2	445.1	32.2	635.8	37.6	7.7	37.3
Whitegrass	33.0	214.4	40.5	324.2	26.5	8.7	48.8
Aneityum	29.2	444.6	31.2	650.6	39.6	2.7	31.7

Predictors and Period used: SOI , December 2012 - February 2013

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Northern Region						
Sola	57.8	1176.7	42.2		9.3	61.4
Pekoa	53.0	656.3	47.0		0.6	61.0
Lamap	53.8	501.5	46.2		2.0	58.8
Southern Region						
Bauerfield	61.1	583.4	38.9		17.2	61.5
Port Vila	56.1	537.6	43.9		6.5	61.0
Whitegrass	55.5	253.2	44.5		4.9	58.5
Aneityum	54.1	579.4	45.9		2.3	56.7

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Northern Region							
Sola	37.6	1001.3	34.3	1298.5	28.1	5.0	40.4
Pekoa	38.0	474.1	30.2	809.3	31.8	5.0	36.6
Lamap	37.6	385.5	33.9	595.9	28.5	5.1	47.1
Southern Region							
Bauerfield	37.4	487.0	35.8	741.9	26.8	5.0	38.5
Port Vila	39.7	455.1	29.7	635.8	30.6	9.3	37.3
Whitegrass	37.1	214.4	34.0	324.2	28.9	4.7	41.5
Aneityum	36.6	444.6	31.1	650.6	32.3	0.9	36.7

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
April to June 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Port Vila	30	426	47	639	23		

Summary Statements

Rainfall for February 2013:

- Rainfall for the past month (February) was *Normal* for Lamap, Whitegrass and Aneityum, below normal for Bauerfield and Port Vila while Sola and Pekoa with *Above normal* rainfall.

Accumulated rainfall for December 2012–February 2013, including outlook verification:

- Total rainfall for the past three months (December 2012 to February 2013) was *above normal* for Sola and Pekoa, Normal for Lamap and Below Normal for Bauerfield, Port Vila, Whitegrass and Aneityum.
- Forecast was *consistent* for Bauerfield, Port Vila, Whitegrass and Aneityum. *Near consistent* for Sola and Lamap, and *In-consistent* for Pekoa.

Outlooks for April–June 2013:

1. SCOPIC:

- Northern Region: *Above normal* rainfall is favored for Sola and Lamap while *normal* rainfall is favored for Pekoa. (Confidence: moderate)
- Southern Region: *Below normal* rainfall is favored for Bauerfield, *normal* rainfall is favored for Whitegrass and *above normal* is favored for Port Vila and Aneityum.(Confidence : Low to Moderate)
- Overall: *normal to above normal* rainfall is favored for the next three months. (Confidence : Moderate)

Using SOI

- Overall: *below normal* rainfall is favoured for all of Vanuatu in the coming three months (April – June 2013). (Confidence : Low to Moderate)

2. POAMA:

Rainfall for the months April to June 2013 favour normal rainfall for Port Vila Station.

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: $X \geq 35$

