

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 102

Country Name: Vanuatu

TABLE 1: Monthly Rainfall

| Station (include data period) | February 2016 | | | | | | |
|-------------------------------|---------------------|--------------------|-------|-----------------------|-----------------------|----------------------|---------|
| | December 2015 Total | January 2016 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Northern Region | | | | | | | |
| Sola | 280.3 | 85.3 | 196.5 | 263.6 | 376.0 | 326.8 | 7/45 |
| Pekoa | 181.9 | 11.0 | 83.1 | 214.3 | 374.8 | 280.6 | 4/46 |
| Lamap | 232.9 | 26.2 | 43.8 | 167.4 | 268.2 | 225.3 | 2/56 |
| Southern Region | | | | | | | |
| Bauerfield | 190.1 | 37.2 | 31.2 | 245.9 | 357.3 | 284.4 | 1/44 |
| Port Vila | 228.3 | 24.8 | 53.1 | 214.4 | 285.7 | 254.5 | 1/64 |
| Whitegrass | 102.2 | 54.2 | 182.1 | 115.6 | 221.5 | 165.5 | 26/45 |
| Aneityum | 256.4 | 89.3 | 114.8 | 186.3 | 297.0 | 232.8 | 10/65 |

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 | 562.1 | 998.2 | 1203.5 | 1105.2 | 2/42 | 39:45:16(-1.6) | Near Consistent |
| Pekoa | 276.0 | 709.0 | 927.8 | 765.8 | 2/45 | 50:28:22(-1.6) | Consistent |
| Lamap | 302.9 | 513.6 | 704.6 | 584.0 | 3/53 | 62:25:13(1.7) | Consistent |
| Southern Region | | | | | | | |
| Bauerfield | 258.5 | 653.6 | 902.7 | 820.6 | 1/42 | 88:09:03(15.2) | Consistent |
| Port Vila | 306.2 | 616.9 | 821.4 | 724.9 | 4/63 | 71:29:00(27.3) | Consistent |

* 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).

| | | | | | | | |
|------------|--------------|-------|-------|-------|-------|-----------------------|------------|
| Whitegrass | 338.5 | 356.0 | 550.6 | 491.4 | 14/44 | 77:15:08(5.5) | Consistent |
| Aneityum | 460.5 | 590.0 | 879.7 | 723.5 | 14/64 | 88:06:06(10.7) | Consistent |

December 2015 to February 2016

[Please note that the data used in this verification should be sourced from table 3 of OCOF #98]

Period: *below normal/normal/above normal

Predictors and Period used for December to February 2016 Outlooks (refer to OCOF #98):
Nino 3.4 SST Anomalies, August – October 2015

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
April to June 2016**

Predictors and Period used: Nino 3.4 SST Anomalies, December 2015 – February 2016

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|----------------------------|---------------------------|----------------------------|---------------------------|--|------|----------|
| Northern Region | | | | | | |
| Sola | 96 | 1183.3 | 4 | | 26.0 | 73.3 |
| Pekoa | 58 | 656.3 | 42 | | -2.0 | 60.6 |
| Lamap | 69 | 507.0 | 31 | | 0.4 | 59.4 |
| Southern Region | | | | | | |
| Bauerfield | 95 | 583.4 | 5 | | 25.1 | 75.8 |
| Port Vila | 91 | 537.6 | 9 | | 16.3 | 69.7 |
| Whitegrass | 84 | 264.2 | 16 | | 7.2 | 65.6 |
| Aneityum | 75 | 572.6 | 25 | | 2.7 | 62.5 |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|----------------------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|------|----------|
| Northern Region | | | | | | | |
| Sola | 50 | 1034.9 | 49 | 1261.8 | 1 | 19.5 | 40.0 |
| Pekoa | 56 | 475.7 | 12 | 791.5 | 32 | -2.0 | 39.4 |
| Lamap | 69 | 385.5 | 19 | 587.1 | 12 | 5.3 | 37.5 |
| Southern Region | | | | | | | |
| Bauerfield | 44 | 472.2 | 47 | 747.7 | 9 | 4.9 | 33.3 |
| Port Vila | 64 | 432.6 | 22 | 637.5 | 14 | 4.9 | 45.5 |
| Whitegrass | 59 | 214.4 | 33 | 333.3 | 8 | 5.0 | 31.3 |
| Aneityum | 86 | 427.4 | 7 | 650.6 | 7 | 9.6 | 53.1 |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
April to June 2016**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|--|--|
| Northern Region | | | | | | | |
| Sola | 94 | 923 | 5 | 1212 | 1 | | |
| Pekoa | 91 | 461 | 5 | 726 | 4 | | |
| Lamap | 91 | 396 | 5 | 592 | 4 | | |
| Southern Region | | | | | | | |
| Bauerfield | 82 | 476 | 9 | 691 | 9 | | |
| Port Vila | 82 | 426 | 9 | 639 | 9 | | |
| Whitegrass | 85 | 202 | 10 | 324 | 5 | | |
| Aneityum | 67 | 408 | 21 | 658 | 12 | | |

Summary Statements

Rainfall for February 2016:

Rainfall for the past month was below normal for all stations except for Whitegrass which recorded normal rainfall. Bauerfield and Port Vila recorded the driest February months ranking.

Accumulated rainfall for December to February 2016, including outlook verification:

Rainfall for the past three months was below normal for all stations. Bauerfield recorded the driest for the three months (December – February).

The Outlook was near consistent for Sola while consistent for all other 6 stations. (Pekoa, Lamap, Bauerfield, Port Vila, Whitegrass and Aneityum).

Outlooks for April to June 2016:

1. SCOPIC:

Using Nino 3.4 SST Anomalies,

- The Outlook favours below normal for Pekoa, Lamap, Port Vila, Whitegrass and Aneityum.
- The Outlook in Sola shows a near equal likelihood of below normal and normal rainfall. Above normal rainfall is the least likely.
- The Seasonal Outlook for April to June shows the most likely outcome at Bauerfield is normal rainfall, with below normal the next most likely.

2. POAMA:

The outlook favours below normal rainfall in the coming season with normal being the next most likely at Sola, Pekoa, Lamap Whitegrass and Aneityum. The next most likely outcome at Bauerfield and Port Vila offers little guidance as there is equal chances of normal and above 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: $X \geq 35$

