

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 90

Country Name: Vanuatu

TABLE 1: Monthly Rainfall

| Station (include data period) | February 2015 | | | | | | |
|-------------------------------|---------------------|--------------------|-------|-----------------------|-----------------------|----------------------|---------|
| | December 2014 Total | January 2015 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Northern Region | | | | | | | |
| Sola | 155.0 | 265.5 | 218.6 | 270.6 | 378.1 | 327.9 | 7/44 |
| Pekoa | 162.4 | 157.7 | 104.1 | 222.7 | 377.0 | 292.4 | 4/45 |
| Lamap | 130.7 | 163.1 | 155.7 | 179.6 | 274.0 | 228.0 | 15/55 |
| Southern Region | | | | | | | |
| Bauerfield | 264.5 | 267.1 | 487.3 | 248.5 | 353.7 | 284.4 | 36/43 |
| Port Vila | 190.2 | 365.0 | 421.4 | 215.7 | 307.0 | 254.5 | 53/63 |
| Whitegrass | 92.9 | 239.3 | 81.2 | 118.3 | 235.6 | 165.5 | 8/44 |
| Aneityum | 271.9 | 178.7 | 248.5 | 188.6 | 301.5 | 232.8 | 37/64 |

TABLE 2: Three-monthly Rainfall December 2014 – February 2015

| 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 | 639.1 | 1003.3 | 1204.9 | 1112.6 | 22/42 | 34:36:30(-1.6) | Near Consistent |
| Pekoa | 424.4 | 709.0 | 895.4 | 756.5 | 34/44 | 35:34:31(-1.8) | Consistent |
| Lamap | 449.5 | 530.0 | 706.1 | 584.0 | 38/54 | 37:32:31(-1.7) | Consistent |
| Southern Region | | | | | | | |
| Bauerfield | 1018.9 | 652.0 | 894.6 | 799.5 | 39/42 | 42:37:21(19.6) | Inconsistent |

* 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).

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|---------------|-----------------|
| Port Vila | 976.6 | 613.0 | 811.6 | 712.4 | 54/62 | 47:45:8(32.4) | Inconsistent |
| Whitegrass | 580.7 | 355.0 | 542.9 | 488.2 | 27/42 | 40:36:24(3.2) | Inconsistent |
| Aneityum | 699.1 | 582.1 | 880.8 | 726.9 | 44/63 | 42:30:28(9.9) | Near Consistent |

December 2014 to February 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #86]

Period:*below normal/normal/above normal

Predictors and Period used for December 2014 to February 2015 Outlooks (refer to OCOF #86): Nino3.4SST Anomalies, Aug-Oct 2014

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
April to June 2015**

Predictors and Period used: Nino 3.4, April – June 2015

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|----------------------------|---------------------------|----------------------------|---------------------------|--|------|----------|
| Northern Region | | | | | | |
| Sola | 68.8 | 1189.8 | 31.2 | | 25.0 | 72.4 |
| Pekoa | 53.7 | 644.7 | 46.3 | | -1.7 | 62.5 |
| Lamap | 55.3 | 501.5 | 44.7 | | 0.8 | 61.3 |
| Southern Region | | | | | | |
| Bauerfield | 67.5 | 594.3 | 32.5 | | 25.1 | 75.0 |
| Port Vila | 62.9 | 544.7 | 37.1 | | 15.5 | 68.8 |
| Whitegrass | 63.6 | 254.7 | 36.4 | | 8.1 | 67.7 |
| Aneityum | 56.0 | 572.8 | 44.0 | | 1.9 | 61.3 |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|----------------------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|------|----------|
| Northern Region | | | | | | | |
| Sola | 43 | 1008.2 | 43 | 1269.1 | 14 | 19.6 | 54.5 |
| Pekoa | 40 | 474.1 | 24 | 799.8 | 36 | -2.0 | 41.2 |
| Lamap | 40 | 383.2 | 31 | 597.8 | 29 | 6.1 | 40.0 |
| Southern Region | | | | | | | |
| Bauerfield | 38 | 475.8 | 38 | 755.7 | 24 | 5.6 | 50.0 |
| Port Vila | 41 | 435.7 | 31 | 638.4 | 29 | 4.3 | 46.4 |
| Whitegrass | 42 | 209.2 | 32 | 325.2 | 20 | 6.2 | 38.5 |
| Aneityum | 40 | 437.6 | 32 | 651.1 | 28 | 8.4 | 40.9 |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
April to June 2015**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|--|--|
| Northern Region | | | | | | | |
| Sola | 30 | 923 | 52 | 1212 | 18 | | |
| Pekoa | 12 | 461 | 73 | 726 | 15 | | |
| Lamap | 12 | 396 | 73 | 592 | 15 | | |
| Southern | | | | | | | |

| | | | | | | | |
|---------------|----|-----|----|-----|----|--|--|
| Region | | | | | | | |
| Bauerfield | 6 | 476 | 79 | 691 | 15 | | |
| Port Vila | 6 | 426 | 79 | 639 | 15 | | |
| Whitegrass | 12 | 202 | 73 | 324 | 15 | | |
| Aneityum | 12 | 408 | 70 | 658 | 18 | | |

Summary Statements

Rainfall for February 2015:

Rainfall for the past month was *below normal* for Sola, Pekoa, Lamap and Whitegrass and *normal* for Aneityum while Bauerfield and Port Vila recorded *above normal* rainfall.

Accumulated rainfall for December 2014 to February 2015, including outlook verification:

- Rainfall for the past three months was *below normal* for Sola, Pekoa and Lamap and *above normal* for Bauerfield, Port Vila and Whitegrass while Aneityum recorded *normal* rainfall.
- The outlook was *consistent* for Pekoa and Lamap, *near consistent* for Sola and Aneityum and *inconsistent* for Bauerfield, Port Vila and Whitegrass.

Outlooks for April to June 2015:

1. SCOPIC:

Using Nino 3.4 SST Anomalies;

- The outlook favours below normal rainfall for Pekoa with above normal being the next most likely.
- The outlook favours below normal rainfall for Lamap, Port Vila, Whitegrass and Aneityum with normal being the next most likely.
- There is equal chance of below normal and normal rainfall for Sola and Bauerfield.
- Overall: Below normal rainfall is favoured for all stations for the coming three months.

2. POAMA:

- The most likely outcome for Sola is normal with below normal being the next most likely.
- The most likely outcome at Pekoa, Lamap, Bauerfield, Port Vila, Whitegrass and Aneityum is below normal rainfall with above normal being the next most likely for the coming three months.

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: $X \geq 35$

