

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 83

Country Name: Vanuatu

TABLE 1: Monthly Rainfall

| Station (include data period) | July 2014 | | | | | | |
|-------------------------------|----------------|-----------------|-------|-----------------------|-----------------------|----------------------|---------|
| | May 2014 Total | June 2014 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Sola | 168.0 | 220.1 | 263.8 | 202.6 | 326.2 | 265.3 | 20/41 |
| Pekoa | 50.9 | 110.2 | 63.8 | 60.3 | 125.9 | 97.6 | 16/44 |
| Lamap | 177.7 | 53.9 | 151.3 | 60.0 | 120.8 | 92.3 | 42/54 |
| Southern Region | | | | | | | |
| Bauerfield | 129.5 | 51.4 | 125.4 | 47.3 | 92.4 | 62.4 | 32/42 |
| Port Vila | 197.6 | 54.4 | 135.5 | 52.2 | 127.3 | 76.1 | 44/62 |
| Whitegrass | 44.3 | 19.3 | 40.2 | 30.5 | 59.6 | 51.9 | 20/41 |
| Aneityum | 165.5 | 96.3 | 73.8 | 84.8 | 142.9 | 112.8 | 17/63 |

TABLE 2: Three-monthly Rainfall May to July 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #79]

| 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?) |
|------------------------|-------------------|-----------------------|-----------------------|----------------------|---------|---------------------------------|--|
| Sola | 651.9 | 754.0 | 1198.4 | 1004.2 | 8/40 | 35:32:33(2.3) | Consistent |
| Pekoa | 224.9 | 390.0 | 579.4 | 488.7 | 6/44 | 12:49:29(9.6) | Near-consistent |
| Lamap | 382.9 | 310.6 | 475.4 | 404.4 | 25/53 | 27:22:51(5.0) | Near-consistent |
| Southern Region | | | | | | | |
| Bauerfield | 306.3 | 327.6 | 532.8 | 444.1 | 14/42 | 21:32:47(3.3) | Inconsistent |
| Port Vila | 387.5 | 349.1 | 498.2 | 408.2 | 28/62 | 15:40:45(13.4) | Near-consistent |
| Whitegrass | 103.8 | 186.2 | 272.7 | 244.3 | 6/42 | 30:38:32(8.3) | Near-consistent |
| Aneityum | 335.6 | 358.6 | 526.2 | 446.4 | 16/62 | 27:39:34(0.9) | Near-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).

Period: *below normal/normal/above normal

Predictors and Period used for May to July 2014 Outlooks (refer to OCOF #79): Jan – Mar 2014 , SST 1 & 9

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
September to November 2014**

Predictors and Period used: NINO 3.4, Jun- Aug

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|----------------------------|---------------------------|----------------------------|---------------------------|--|------|----------|
| Sola | 63 | 1019.3 | 37 | | 13.8 | 61.3 |
| Pekoa | 76 | 434.9 | 24 | | 41.6 | 83.9 |
| Lamap | 54 | 326.9 | 46 | | 0.3 | 59.4 |
| Southern Region | | | | | | |
| Bauerfield | 78 | 306.3 | 22 | | 44.9 | 84.4 |
| Port Vila | 71 | 305.5 | 29 | | 31.1 | 78.1 |
| Whitegrass | 76 | 138.9 | 24 | | 32.9 | 73.3 |
| Aneityum | 70 | 347.0 | 30 | | 20.8 | 65.6 |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|----------------------------|---------------------------|----------------------------|------------------|----------------------------|---------------------------|------|----------|
| Sola | 43 | 873.6 | 26 | 1161.5 | 31 | 7.6 | 41.9 |
| Pekoa | 57 | 298.9 | 28 | 520.7 | 15 | 36.3 | 71.0 |
| Lamap | 44 | 274.5 | 28 | 408.0 | 28 | 11.3 | 34.4 |
| Southern Region | | | | | | | |
| Bauerfield | 50 | 236.7 | 32 | 419.9 | 18 | 34.2 | 68.8 |
| Port Vila | 53 | 239.7 | 26 | 390.2 | 21 | 30.9 | 50.0 |
| Whitegrass | 49 | 115.5 | 44 | 225.7 | 7 | 33.8 | 66.7 |
| Aneityum | 59 | 260.7 | 28 | 423.8 | 13 | 32.2 | 50.0 |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
September to November 2014**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|--|--|
| Sola | 36 | 490 | 39 | 807 | 24 | | |
| Pekoa | 42 | 232 | 39 | 360 | 18 | | |
| Lamap | 42 | 210 | 39 | 294 | 18 | | |
| Southern Region | | | | | | | |
| Bauerfield | 39 | 193 | 45 | 285 | 15 | | |
| Port Vila | 39 | 169 | 45 | 300 | 15 | | |
| Aneityum | 33 | 196 | 62 | 341 | 5 | | |

Summary Statements

Rainfall for July 2014:

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

Accumulated rainfall for May to July 2014, including outlook verification:

- Rainfall for the past three months was *below normal* for all stations (Sola, Pekoa, Bauerfield, Whitegrass, and Aneityum) except Lamap and Port Vila which recorded *normal* rainfall.
- Confidence was *near-consistent* for Pekoa, Lamap, Port Vila, Whitegrass and Aneityum, *consistent* for Sola and *inconsistent* for Bauerfield.
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Outlooks for September to November 2014:

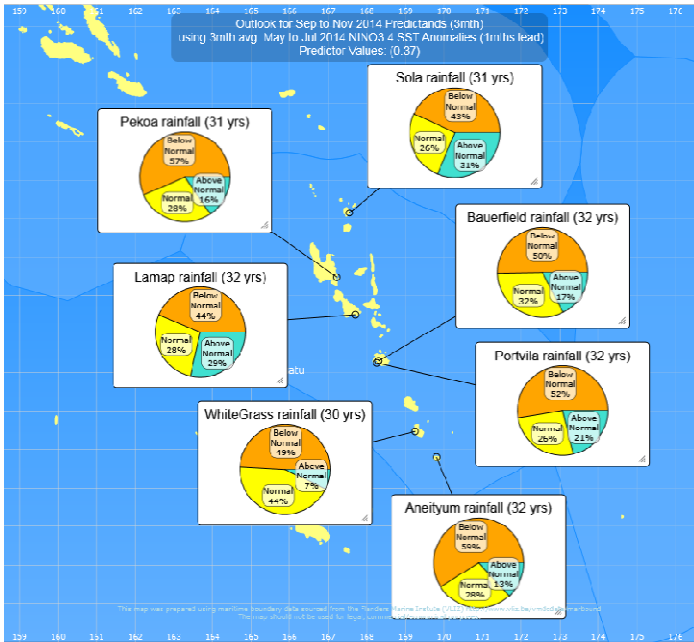
1. SCOPIC: Using Nino 3.4

The seasonal rainfall outlook for September to November 2014 show:

- The most likely outcome at Pekoa, Bauerfield, Port Vila, Whitegrass and Aneityum is below normal with normal the next most likely.
- The most likely outcome at Sola is below normal with above normal the next most likely.
- The most likely outcome at Lamap is below normal with equal chances of normal and above normal the next most likely.
- Overall below normal is favoured for the coming three months (confidence: Moderate – Exceptional).

2. POAMA:

- The most likely outcome at Pekoia, and Lamap is below normal with normal the next most likely.
- The most likely outcome at Sola, Bauerfield, Port Vila and Aneityum is normal with below normal the next most likely.
- Overall normal to below normal rainfall is favoured for the coming three months.



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: $X \geq 35$