

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 74

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

| Station (include data period) | | | October 2013 | | | | |
|-------------------------------|-------------------|----------------------|--------------|-----------------------|-----------------------|----------------------|----------|
| | August 2013 Total | September 2013 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Nui | 52.2 | 113.5 | 176.9 | 144.8 | 231.0 | 185.2 | 29 of 68 |
| Funafuti | 190.5 | 157.1 | 324.8 | 198.6 | 291.4 | 243.6 | 64 of 81 |
| | | | | | | | |
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| | | | | | | | |

**TABLE 2: Three-monthly Rainfall
August to October 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #70]

| 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?) |
|----------|-------------------|-----------------------|-----------------------|----------------------|----------|---------------------------------|--|
| Nui | 342.6 | 498.3 | 731.5 | 567.4 | 11 of 68 | 65.8%/24.2%/10.0% [26.3%] | Consistent |
| Funafuti | 672.4 | 597.1 | 799.5 | 669.8 | 41 of 81 | 50.4%/35.2%/14.4% [13.4%] | Near Consistent |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Period: *below normal/normal/above normal

Predictors and Period used for August to October 2013 Outlooks (refer to OCOF #70):

* 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).

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
December 2013 to February 2014**

Predictors and Period used: SOI VALUES

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|----------|------------------------------------|-------------------------------------|------------------------------------|--|-------------|-----------------|
| Nui | 50.9% | 1068.1 | 49.1% | | 9.0% | 65.7% |
| Funafuti | 50.6% | 1126.1 | 49.4% | | 1.9% | 55.0% |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|----------|------------------------------------|-------------------------------------|--------------------------|-------------------------------------|------------------------------------|-------------|-----------------|
| Nui | 32.6% | 868.0 | 34.6% | 1226.5 | 32.8% | 6.0% | 44.8% |
| Funafuti | 33.5% | 1000.2 | 32.5% | 1233.9 | 34.0% | 0.1% | 45.0% |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
December 2013 to February 2014**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|----------|----------------------|----------------------|-----------------------|----------------------|----------------------|--|--|
| Nui | 50.00% | 695 | 23.33% | 1262 | 26.67% | | |
| Funafuti | 33.33% | 930 | 26.67% | 1151 | 40.00% | | |

Summary Statements

Rainfall for October 2013:

- Normal rainfall collected at Nui in the central division and above normal rainfall received at Funafuti in the southern division.

Accumulated rainfall for August–October 2013, including outlook verification:

- Below normal rainfall received at Nui with consistent in verification.
- Normal rainfall received at Funafuti with near consistent in verification.

Outlooks for December 2013–February 2014:

1. SCOPIC:

- Predicts normal rainfall for Nui in the central division with moderate skills
- Above normal rainfall for Funafuti in the southern division with low skills

2. POAMA:

Nui - Below normal rainfall with rainfall less than 695mm

Funafuti - Above normal rainfall with rainfall of more than 1151mm

B: 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: $X \geq 35$