# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 119

**Country Name: Samoa**

## TABLE 1: Monthly Rainfall

| Station (include data period) | | | July 2017 | | | | |
|---|---|---|---|---|---|---|---|
| | May 2017 Total | June 2017 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Afiamalu | 1007.9 | 354.2 | 120.5 | 145.5 | 257.7 | 207.6 | 18/66 |
| Nafanua | 951.5 | 206.9 | 142.8 | 84.6 | 168.6 | 117.7 | 28/46 |
| Apia | 882.2 | 162.4 | 104.1 | 71.6 | 129.5 | 93.3 | 75/128 |
| Faleolo | 420.4 | 145.0 | 26.7 | 53.2 | 103.4 | 80.9 | 8/57 |

## TABLE 2: Three-monthly Rainfall
## May to July 2017

**[Please note that the data used in this verification should be sourced from table 3 of OCOF #115]**

| 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? |
|---|---|---|---|---|---|---|---|
| Afiamalu | 1482.6 | 625.1 | 832.5 | 732.4 | 61/63 | 29/**36**/35 (1.0) | Near consistent |
| Nafanua | 1301.2 | 437.9 | 594.1 | 523.6 | 45/45 | 32/**34**/**34** (-2.6) | Near-Consistent |
| Apia | 1148.7 | 333.0 | 481.2 | 410.2 | 128/128 | 33/**34**/33 (-2.3) | Near consistent |
| Faleolo | 592.1 | 273.1 | 374.3 | 311.3 | 55/55 | 32/31/**37** (0.9) | Consistent |

Period:*below normal/normal/above normal

Predictors and Period used for May to July 2017 Outlooks (refer to OCOF #115):
**Nino 3.4 indices from February to March 2017.**

*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 September to November 2017

**Predictors and Period used: Nino 3.4 values of June to July 2017**

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS | Hit-rate |
|---|---|---|---|---|---|---|
| **Afiamalu** | 56 | 909.9 | 44 | | 3.5% | 60.7% |
| **Nafanua** | 54 | 675.1 | 46 | | 2.1% | 56.8% |
| **Apia** | 57 | 593.4 | 43 | | 5.9 % | 61.2% |
| **Faleolo** | 51 | 468.3 | 49 | | -1.1% | 54.7% |

| Station | Below Normal (prob) | 33%ile rainfall (mm) | Normal (prob) | 66%ile rainfall (mm) | Above Normal (prob) | LEPS | Hit-rate |
|---|---|---|---|---|---|---|---|
| Afiamalu | **38** | 777.8 | 34 | 1094.1 | 28 | 3.5% | 42.9% |
| Nafanua | **38** | 598.6 | 32 | 791.7 | 30 | 3.0% | 38.6% |
| Apia | **38** | 493.0 | 33 | 682.1 | 29 | 1.8% | 22.4% |
| Faleolo | **36** | 401.8 | 33 | 518.2 | 31 | 0.1% | 28.3% |

## TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2017

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) | | |
|---|---|---|---|---|---|---|---|
| Apia | 15 | 497 | 6 | 679 | **79** | | |
| Faleolo | 15 | 300 | 6 | 486 | **79** | | |

## Summary Statements

**Rainfall for July 2017:**

**'**Below normal' rainfall was recorded at Afiamalu and Faleolo station whereas Apia and Nafanua registered 'normal'.

**Accumulated rainfall for May to July 2017, including outlook verification:**

'Above normal' rainfall for all stations. New records for Apia, Afiamalu and Faleolo as they recorded highest ranking accumulated rainfall in this period.

Apia, Nafanua and Afiamalu were 'near consistent' with the outlook while Faleolo recorded 'consistent'.

**Outlooks for August to October 2017:**

1. **SCOPIC:**

The outlook offers little guidance for Afiamalu, Apia and Faleolo as the chances of **'below normal, 'normal'** and **'above normal'** are similar.

**'Below normal'** rainfall is anticipated for Nafanua with **'normal'** the next most likely outcome.

The model confidence is low

2. **POAMA:**

**'Above normal'** rainfall is the favoured outcome for Apia and Faleolo stations.

**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: $X \geq 35$