

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 100

**Country Name:** Samoa

**TABLE 1: Monthly Rainfall**

Station (include data period)	December 2015						
	October 2015 Total	November 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu	321.8	864.7	656.4	425.5	647.9	522.5	43/64
Nafanua	193.0	768.7	463.1	319.1	456.4	392.8	29/42
Apia	155.1	713.2	373.6	276.7	428.2	364.0	68/126
Faleolo	181.1	152.7	261.5	206.1	307.9	265.8	27/54

**TABLE 2: Three-monthly Rainfall  
October to December 2015**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #96]

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	1842.9	1160.5	1412.6	1258.3	53/63	64/28/8 (7.0)	Inconsistent
Nafanua	1424.8	774.2	1022.5	900.8	38/41	48/48/4 (12.1)	Inconsistent
Apia	1241.9	716.8	899.5	817.7	114/126	57/27/16 (1.6)	Inconsistent
Faleolo	596.3	537.8	693.7	611.6	53/54	39/40/21 (-2.3)	Consistent

Period: \*below normal/normal/above normal

**Predictors and Period used for October to December 2015 Outlooks (refer to OCOF #96):  
Nino 3.4 value from June to August 2015**

\* 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 February to April 2016**

**Predictors and Period used:** Nino 3.4 value from October to December 2015.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	46	1419.2	54		-3.1%	51.5%
Nafanua	66	1048.3	34		-1.4%	58.6%
Apia	83	924.8	17		6.2%	66.7%
Faleolo	9	629.9	91		15.1%	64.3%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	48	1235.2	24	1548.1	28	-3.7%	18.2%
Nafanua	65	910.7	17	1126.4	18	2.2%	34.5%
Apia	72	802.8	22	1012.4	6	8.0%	48.5%
Faleolo	19	589.7	22	692.1	59	0.2%	28.6%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	67	795	12	1108	21		

## **Summary Statements**

**Rainfall for December 2015:** Afiamalu and Nafanua recorded “above normal” rainfall whereas Apia and Faleolo station received “normal” rainfall.

### **Accumulated rainfall for October to December 2015, including outlook verification:**

All stations received “above normal” rainfall with the exception of Faleolo recorded “normal” rainfall.

The outlook verification was “inconsistent” for all stations except for Faleolo which recorded “consistent” forecast.

### **Outlooks for February to April 2016:**

#### **1. SCOPIC:**

- The outlook for Faleolo favours “above normal”, with “normal” the next most likely.
- The outlook for Afiamalu and Nafanua favours “below normal” rainfall, with “above normal” the next most likely.
- The rainfall outlook for Apia station favours “below normal”, with “normal” the next most likely.

The confidence ranges from “very low” to “moderate”

#### **2. POAMA:**

- Apia favours “Below normal” rainfall for Feb-Apr 2016 period.

**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:  $X \geq 35$