

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 107

**Country Name:** Samoa

**TABLE 1: Monthly Rainfall**

Station (include data period)	July 2016						
	May 2016 Total	June 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu	420.6	141.8	69.5	146.3	258.1	208.5	10/65
Nafanua	464.1	154.3	82.0	86.1	171.9	126.3	14/45
Apia	389.9	81.5	24.0	72.2	129.7	94.3	10/127
Faleolo	199.3	41.4	36.7	56.1	103.4	86.1	8/56

**TABLE 2: Three-monthly Rainfall  
May to July 2016**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #103]

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	631.9	621.7	833.7	732.9	22/62	79/13/8 (8.8)	Near consistent
Nafanua	700.4	423.6	579.1	519.6	35/44	62/16/22 (-0.8)	Inconsistent
Apia	495.4	332.3	480.5	409.5	87/127	45/31/24 (-3.7)	Inconsistent
Faleolo	277.4	271.5	382.6	324.5	20/54	69/23/8 (7.5)	Near consistent

Period: \*below normal/normal/above normal

Predictors and Period used for May to July 2016 Outlooks (refer to OCOF #103): Nino 3.4 value from January to March 2016.

\* 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 2016**

**Predictors and Period used:** Nino 3.4 value from May to July 2016.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	67	912.2	33		4.1%	54.5%
Nafanua	68	677.8	32		2.1%	53.5%
Apia	68	596.7	32		3.8%	60.6%
Faleolo	56	459.4	44		-1.6%	34.6%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	47	773.0	33	1094.7	20	2.95%	47.3%
Nafanua	47	600.8	30	806.7	23	0.7%	39.5%
Apia	40	495.1	37	682.9	23	-0.1%	30.3%
Faleolo	41	400.8	30	518.7	29	-1.7%	5.8%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	27	497	6	679	67		

## **Summary Statements**

**Rainfall for July 2016:** Below normal rainfall was recorded at all the stations.

**Accumulated rainfall for May to July 2016, including outlook verification:** Afiamlau and Faleolo recorded normal rainfall. Above normal rainfall was registered for Nafanua and Apia stations.

The outlook verification was near consistent for Afiamalu and Faleolo. The outlook was inconsistent with observed rainfall at Apia and Nafanua.

### **Outlooks for September to November 2016:**

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

- Afiamalu, Nafanua and Faleolo favour below normal rainfall, with normal the next most likely. Below normal or normal rainfall is favoured for Apia.

The confidence of the model ranges from moderate to very low.

#### **2. POAMA:** The outlook for Apia station favours above normal rainfall.

**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:  $X \geq 35$