

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 108

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	August 2016						
	June 2016 Total	July 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu	141.8	69.5	271.6	90.5	203.8	170.4	49/63
Nafanua	154.3	82.0	132.1	68.0	118.6	86.8	31/45
Apia	81.5	24.0	163.4	60.5	130.4	84.0	99/127
Faleolo	41.4	36.7	122.8	57.6	111.3	92.4	38/55

**TABLE 2: Three-monthly Rainfall
June to August 2016**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #104]

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	482.9	169.3	223.0	197.0	18/61	66/31/3 (12.7)	Inconsistent
Nafanua	368.4	98.5	166.1	136.2	31/45	62/15/23 (1.5)	Inconsistent
Apia	268.9	82.1	136.7	114.8	48/127	44/27/29 (-2.9)	Inconsistent
Faleolo	200.9	70.2	120.0	96.6	38/55	58/31/11 (3.5)	Inconsistent

Period: *below normal/normal/above normal

Predictors and Period used for June to August 2016 Outlooks (refer to OCOF #104):
Nino 3.4 value from February to April 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
October to December 2016**

Predictors and Period used: Nino 3.4 value from June to August 2016

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	48	1266.3	52		5.1%	63.6%
Nafanua	45	906.3	55		15.2%	67.5%
Apia	48	819.3	52		2.1%	64.6%
Faleolo	49	619.0	51		0.9%	66.0%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	29	1160.5	36	1448.0	35	7.2%	49.1%
Nafanua	30	781.3	35	1044.1	35	10.7%	55.0%
Apia	30	716.8	35	909.7	35	5.7%	47.7%
Faleolo	33	542.9	33	700.2	34	0.3%	39.6%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
October to December 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	21	713	5	865	74		

Summary Statements

Rainfall for August 2016: Above normal rainfall was recorded at all the stations.

Accumulated rainfall for June to August 2016, including outlook verification:

All stations observed above normal rainfall.

The outlook verification for all stations was inconsistent.

Outlooks for October to December 2016:

1. SCOPIC:

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

The confidence of the model ranges from “good” to “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: $X \geq 35$