

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 104

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	April 2016						
	February 2016 Total	March 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu	280.7	460.1	749.6	272.5	386.2	327.5	62/63
Nafanua	412.3	339.7	585.7	174.2	305.6	237.5	44/46
Apia	322.4	272.6	650.0	176.3	266.8	220.4	127/127
Faleolo	161.7	273.8	397.0	138.1	175.8	157.8	55/55

**TABLE 2: Three-monthly Rainfall
February to April 2016**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #100]

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	1490.4	1235.2	1548.1	1419.2	38/61	48/24/28 (-3.7)	Near consistent
Nafanua	1337.7	910.7	1126.4	1048.3	37/44	65/17/18 (2.2)	Inconsistent
Apia	1245.0	802.8	1012.4	924.8	114/127	72/22/6 (8.0)	Inconsistent
Faleolo	832.5	589.7	692.1	629.9	49/55	19/22/59 (0.2)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for February to April 2016 Outlooks (refer to OCOF #100):
Nino 3.4 value from October to December 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 June to August 2016

Predictors and Period used: Nino 3.4 value from February to April 2016.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	91	197.0	9		14.8%	63.6%
Nafanua	61	136.2	39		-2.0%	48.3%
Apia	37	114.8	63		-1.9%	64.7%
Faleolo	90	96.6	10		14.8%	65.5%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	66	169.3	31	223.0	3	12.7%	54.5%
Nafanua	62	98.5	15	166.1	23	1.5%	31.0%
Apia	44	82.1	27	136.7	29	-2.9%	11.8%
Faleolo	58	70.2	31	120.0	11	3.5%	44.8%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for June to August 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	18	272	34	395	48		

Summary Statements

Rainfall for April 2016: “Above normal” rainfall was recorded for all stations.

Accumulated rainfall for February to April 2016, including outlook verification:

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

The outlook verification was “near consistent” for Afiamalu and “consistent” for Faleolo station. Apia and Nafanua recorded “inconsistent”.

Outlooks for June to August 2016:

1. SCOPIC:

- Afiamalu and Faleolo stations favours “below normal” with “normal” the next most likely.
- The outlook for Nafanua and Apia shows the most likely outcome is “below normal” with “above normal” the next most likely.

The confidence is ranges from “good” to “very low”.

2. POAMA:

- The outlook favours “above normal” rainfall for Apia in the next coming season.

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: $X \geq 35$