

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 71

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)			July 2013				
	May 2013 Total	June 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu (1967-2013)	274.6	270.4	198.6	146.9	255.3	208.5	30/61
Nafanua (1965-2013)	267.4	196.5	198.7	84.6	168.8	107.9	35/43
Apia (1890-2013)	304.9	161.6	163.8	72.2	129.7	93.3	107/124
Faleolo (1957-2013)	143.9	164.9	91.3	56.1	103.4	88.3	28/53

**TABLE 2: Three-monthly Rainfall
May to July 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #67]

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	743.6	615.5	855.6	756.9	28/57	27/37/36 (7.1)	Consistent
Nafanua	662.6	415.6	572.5	506.7	30/42	33/33/34 (-1.9)	Near consistent
Apia	630.3	330	479.1	408.8	109/124	34/33/33 (-0.8)	Near consistent
Faleolo	400.1	271.5	382.6	316.7	36/51	34/31/35 (-0.9)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for May to July 2013 Outlooks (refer to OCOF #67): SOI values from January to July 2013

* 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 2013**

Predictors and Period used: SOI values from May to July 2013

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	34%	819.6	66%		6.4%	63.6%
Nafanua	40%	669.3	60%		-0.2%	57.1%
Apia	37%	593.4	63%		4%	63.4%
Faleolo	27%	450.5	73%		10.3%	65.3%

Station	Below Normal (prob)	33 rd ile rainfall (mm)	Normal (prob)	66 th ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	19%	720.1	32%	1095.5	49%	6.4%	41.8%
Nafanua	30%	558.9	34%	748.5	36%	-2.2%	21.4%
Apia	15%	495.1	43%	682.9	42%	7.9%	39%
Faleolo	8%	381.4	32%	517.2	60%	13.6%	49%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
September to November 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	26.66	497	36.67	679	36.67		

Summary Statements

Rainfall for July 2013:

'Above normal' at 2/4 main climate stations namely; Apia and Nafanua. Afiamalu and Faleolo received 'normal' rainfall in July

Accumulated rainfall for May–July 2013, including outlook verification:

Afiamalu was the sole station that recorded 'normal' accumulated rainfall for this 3-monthly period while 'above normal' rainfall was recorded elsewhere

The observed 3-monthly rainfall at Afiamalu and Faleolo were consistent with the forecast issued for this period. 'Near consistent' for Nafanua and Apia rainfall.

Outlooks for September–November 2013:

1. SCOPIC: The statistical model is predicting 'above normal' rainfall for Samoa in the next 3 months.

2. POAMA:

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: $X \geq 35$