Pacific Islands - Online Climate Outlook Forum (OCOF) No. 70

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)			June 2013				
	April 2013 Total	May 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu (1967-2013)	510.9	274.6	270.4	141.7	241.7	176.3	42/58
Nafanua (1965-2013)	260.9	267.4	196.5	96.3	149	120.7	35/44
Apia (1890-2013)	187.2	304.9	161.6	87.4	147.2	116.9	90/124
Faleolo (1957-2013)	124.7	143.9	164.9	58.3	111.2	80	46/52

TABLE 2: Three-monthly Rainfall
April to June 2013

[Please note that the data used in this verification should be sourced from table 3 of OCOF #66]

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	1055.9	720.9	991.7	839.3	44/56	**37**/29/34 (2.7%)	Inconsistent
Nafanua	724.8	500	746.4	626.6	31/38	**37**/28/35 (-1%)	Near consistent
Apia	653.7	452.8	633.6	530.3	88/124	**35**/32/33 (-0.9%)	Inconsistent
Faleolo	433.5	343.1	459.4	396.4	31/50	**35**/33/32 (-2.2%)	Near consistent

Period:*below normal/normal/above normal

*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).

Predictors and Period used for April to June 2013 Outlooks (refer to OCOF #66)**: SOI values from December 2012 to February 2013**

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2013

Predictors and Period used: SOI values from April 2013- June 2013

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	40	688.3	60		2.9%	63.2%
Nafanua	50	571.9	50		-2.5%	23.8%
Apia	45	440.2	55		0.6%	55.3%
Faleolo	42	351.8	58		0.7%	55.1%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	30	544.8	28	834.4	**42**	0.9%	33.3%
Nafanua	35	376.2	**37**	615.9	28	-2.1%	8.3%
Apia	21	367.6	**42**	529.1	37	4.2%	43.1%
Faleolo	23	281.8	**41**	421.8	36	0.9%	40.8%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	33	430	27	513	**40**		

Summary Statements

Rainfall for June 2013:
'above average' in all main climate stations namely; Afiamalu, Apia, Nafanua and Faleolo

Accumulated rainfall for April–June 2013, including outlook verification:
'above average' for Afiamalu and Apia. 'average' at Nafanua and Faleolo.

Outlook issued for April-June 2013 period was 'near consistent' with the observed rainfall at Nafanua and Faleolo and 'inconsistent' with Afiamalu and Apia rainfall.

Outlooks for August–October 2013:
1. SCOPIC:
Normal to above normal is predicted by the statistical model for Samoa in the next 3 months
Skill= very low to low

2. POAMA:

The dynamical model is forecasting above normal rainfall for Samoa in the next 3 months.

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35