

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 100

Country Name:

TABLE 1: Monthly Rainfall

Station (include data period)	December 2015						
	October 2015 Total	November 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	366.3	318.4	648.4	205.9	337.8	294.4	74/75
Nui	421.0	271.6	504.4	312	430.3	307.6	58/70
Funafuti	287.5	460.8	520.1	265.3	417.2	354.5	69/83
Niulakita							

TABLE 2: Three-monthly Rainfall October to December 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #96]

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?)
Nanumea	1329.5	532.3	751.7	627.6	74/75	1/11/88 [19.8%]	Consistent
Nui	119.7	709.7	914.4	803.4	67/70	3/44/53 [16.4%]	Consistent
Funafuti	1268.4	810.0	1007.9	895.0	77/83	7/43/49 [5.3%]	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for October to December 2015 Outlooks (refer to OCOF #96):

* 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
February to April 2016**

Predictors and Period used:

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	7.5%	823.9	92.5%		18.4%	63.6%
Nui	24.4%	820.6	75.6%		2.4%	60.6%
Funafuti	1.3%	928.1	98.7%		35.3%	75.8%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	0.1%	624.5	32.1%	990	67.8	34.8%	60.6%
Nui	9%	712.1	44%	974	47%	6.1%	33.3%
Funafuti	1%	812.2	59%	1049.6	40%	17.3%	36.4%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
February to April 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	12.12%	810	27.27%	1106	60.61%		
Nui	6.06%	798	36.36%	1126	57.58%		
Funafuti	27.27%	907	24.24%	1086	48.48%		

Summary Statements

Rainfall for December 2015:

Rainfall in December 2015 was above normal rainfall for 3 stations (Nanumea, Nui and Funafuti)

Accumulated rainfall for October to December 2015, including outlook verification:

Rainfall over the last 3 month was recorded above normal rainfall for Nanumea, Nui and Funafuti with verification of consistent

Outlooks for February to April 2016:

1. SCOPIC:

Seasonal outlook for Tuvalu for Feb – April 2016

For Nanumea and Nui, above normal rainfall is the most likely outcome with normal rainfall the next likely outcome with very high skills for Nanumea and moderate skills for Nui Island.

For Funafuti, normal rainfall is the most likely outcome with above normal rainfall is the next likely outcome with high skills confident.

2. POAMA:

For Nanumea, Nui and Funafuti, above normal rainfall is favoured with normal rainfall is the next most likely outcome.

For the overall: Tuvalu seasonal outlook for Feb – April will be Normal to 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: $X \geq 35$