

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 101

**Country Name:** Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	January 2016						
	November 2015 Total	December 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	318.4	648.4	308.7	252.8	417.2	347.2	32/76
Nui	271.6	504.4	66.2	258.9	457	356.9	2/71
Funafuti	460.8	520.1	78.9	311.6	484.2	411.2	Lowest/84
Niulakita							

**TABLE 2: Three-monthly Rainfall  
November 2015 to January 2016**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #97]

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	1275.5	604	996.7	882.8	64/75	1/7/92 [28.8%]	Consistent
Nui	842.2	830.5	1110.7	982.2	34/70	1/57/42 [16.2%]	Consistent
Funafuti	1059.8	927.8	1159.5	1038.2	28/83	4/62/34 [5.7%]	Near Consistent
Niulakita							

Period: \*below normal/normal/above normal

Predictors and Period used for November to January 2016 Outlooks (refer to OCOF #97):

\* 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  
March to May 2016**

Predictors and Period used: Nino 3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	20%	770.3	80%		7.2%	57.6%
Nui	12%	705.0	88%		11.6%	72.7%
Funafuti	15%	790.5	85%		10.2%	63.6%
Niulakita						

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	2%	550.0	19%	880.5	79%	16.6%	45.5%
Nui	12%	609.4	21%	830.6	67%	7.2%	54.5%
Funafuti	9%	674.5	20%	893.4	71%	7.9%	51.5%
Niulakita							

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
March to May 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	9%	756	33%	997	58%		
Nui	6%	707	33%	940	61%		
Funafuti	30%	788	21%	1034	49%		
Niulakita	76%	724	12%	940	12%		

## **Summary Statements**

### **Rainfall for January 2016:**

Rainfall for January was **normal rainfall** for Nanumea, while **below normal rainfall** recorded for Nui and Funafuti

### **Accumulated rainfall for November to January 2016, including outlook verification:**

Rainfall over the last three month was above normal rainfall for Nanumea with consistent verification. Nui recorded normal rainfall for the last three month with consistent verification, while Funafuti recorded normal rainfall with near consistent verification for the last three month.

### **Outlooks for March to May 2016:**

#### **1. SCOPIC:**

March to May 2016 prediction for Nanumea, Nui and Funafuti, **above normal rainfall** is the most likely outcome with **normal rainfall** is the next most likely. **High** outlook confidence for Nanumea and **moderate** outlook confidence for Nui and Funafuti

#### **2. POAMA:**

Nanumea and Nui, above normal rainfall is favoured with normal rainfall the next most likely. For Funafuti, above normal rainfall is favoured with below normal rainfall the next most likely, while Niulakita predict below normal rainfall with a similar chances of normal and above normal rainfall.

**Overall Prediction: Normal rainfall to above normal rainfall for the next three month for Tuvalu**

**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:  $X \geq 35$