

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 116

**Country Name: Tuvalu**

**TABLE 1: Monthly Rainfall**

Station (include data period)			April 2017				
	February 2017 Total	March 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	262.5	247.3	206.4	197.1	273.6	229.7	29/77
Nui	202.8	363.5	413.6	151.4	265.1	198.8	65/72
Funafuti	114.4	281.6	611.0	185.4	298.2	237.1	83/85
Niulakita	318.2	199.9	573.7	167.6	257.8	215.9	63/65

**TABLE 2: Three-monthly Rainfall  
February 2017 to April 2017**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #112]

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	716.2	627.7	992.0	827.1	34/77	58/28/14 [34]	Near-consistent
Nui	979.9	698.3	956.7	817.1	49/72	43/32/25 [09]	Inconsistent
Funafuti	1007	816.0	1047.7	928.1	55/85	51/17/32 [13]	Near-Consistent
Niulakita	1091.8	819.0	1013.4	923.5	50/65	31/33/36 [-0.3]	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 February to April 2017 Outlooks (refer to OCOF #112):  
 NINO3.4 (Nov-Dec 2016)

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for  
 June to August 2017**

Predictors and Period used: Nino 3.4 (Mar-Apr)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	31	593	69		22%	70%
Nui	32	629	68		20%	73%
Funafuti	32	719	68		19%	69%
Niulakita	43	591	57		3%	63%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	15%	444	37%	697	48%	20%	48%
Nui	19%	493	33%	726	48%	17%	58%
Funafuti	12%	585	43%	847	45%	20%	43%
Niulakita	25%	537	36%	737	39%	04%	44%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
 June to August 2017**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	39	468	52	744	9		
Nui	33	518	61	732	6		
Funafuti	33	699	30	802	37		
Niulakita	33	466	21	733	46		

## **Summary Statements**

### **Rainfall for April 2017:**

Rainfall in April was above normal rainfall at all synoptic stations except Nanumea which received normal rainfall.

### **Accumulated rainfall for February 2017 to April 2017, including outlook verification:**

Rainfall over the last three month was normal at Nanumea and Funafuti, while Nui and Niulakita received above normal rainfall.

The SCOPIC outlooks for the last three months were inconsistent at Nui, near-consistent at Nanumea and Funafuti, and consistent at Niulakita.

### **Outlooks for June to August 2017:**

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

The seasonal rainfall outlook for June to August shows the most likely outcome is above-normal, with normal the next most likely for all synoptic stations.

Outlook confidence ranges from low to high: There is a high confidence outlook at Nanumea, Nui and Funafuti. Low confidence at Niulakita.

#### **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:  $X \geq 35$