

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 117

**Country Name:** Tuvalu

### TABLE 1: Monthly Rainfall

Station (include data period)	May 2017						
	March 2017 Total	April 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	247.3	206.4	276.4	154	234	203	59/77
Nui	363.5	413.6	403.5	151	213	185	67/72
Funafuti	281.6	611	276.4	181	254	214	62/85
Niulakita	199.9	573.7	125.5	176	249	210	13/65

### TABLE 2: Three-monthly Rainfall March to May 2017

[Please note that the data used in this verification should be sourced from table 3 of OCOF #113]

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	730.1	550	881	772	37/77	41/38/21 [22%]	Near-consistent
Nui	1180.6	597	829	699	64/72	38/36/26	Inconsistent
Funafuti	1169.0	678	902	799	74/85	38/36/26 [8%]	Inconsistent
Niulakita	899.1	681	915	829	41/65	38/31/31 [5%]	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 March 2017 to May 2017 Outlooks (refer to OCOF #113):

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for July to September 2017**

**Predictors and Period used: Nino 3.4 (April-May)**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	22%	514	78%		19%	67%
Nui	18%	602	82%		22%	69%
Funafuti	20%	702	80%		20%	66%
Niulakita	42%	602	58%		01%	59%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	9%	403	28%	629	63%	20%	51%
Nui	8%	513	34%	689	58%	21%	51%
Funafuti	8%	593	33%	795	59%	19%	49%
Niulakita	22%	513	40%	713	38%	1%	44%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for July to September 2017**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	36	405	49	705	15		
Nui	21	533	67	729	12		
Funafuti	43	671	18	859	39		
Niulakita	30	492	21	709	49		

## Summary Statements

### **Rainfall for May 2017:**

Rainfall in May 2017 was **above-normal** at Nanumea, Nui and Funafuti. **Below-normal** rainfall was recorded at Niulakita

### **Accumulated rainfall for March to May 2017, including outlook verification:**

Rainfall over the last three months was **normal** at Nanumea and Niulakita, while Funafuti and Nui recorded **above-normal** rainfall.

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

### **Outlooks for July to September 2017:**

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

The seasonal rainfall outlook for July to Sept 2017 shows the most likely outcome is **above-normal**, with **normal** the next most likely at Nanumea, Nui and Funafuti. Niulakita shows a near equal likelihood of **above-normal** and **normal** rainfall, with **below-normal** rainfall the least likely.

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

Nanumea and Nui; Normal rainfall is favoured with below-normal rainfall the next most likely.

Funafuti; below-normal rainfall is favoured with above-normal rainfall the next most likely.

Niulakita; Above-normal rainfall is favoured with below-normal rainfall the next most likely.

**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:  $X \geq 35$