

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 93

**Country Name:** Tuvalu

### TABLE 1: Monthly Rainfall

Station (include data period)	May 2015						
	March 2015 Total	April 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	331.4	286.9	152.0	154.2	231.9	203.5	25 of 75
Nui	453.9	227.8	222.2	148.6	212.8	179.0	50 of 70
Funafuti	289.7	356.2	282.8	177.6	248.0	212.3	64 of 83
Niulakita	604.5	276.3	208.0	174.0	247.9	209.0	32 of 63

### TABLE 2: Three-monthly Rainfall March to May 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #89]

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	770.3	549.7	880.5	770.6	38/75	17/37/46 [15.1%]	Near consistent
Nui	903.9	603.2	828.1	698.5	50/70	27/31/42 [0.8%]	Consistent
Funafuti	928.7	671.1	886.4	787.1	58/83	25/32/43 [6.2%]	Consistent
Niulakita	1088.8	674.1	914.0	828.6	56/63	22/41/37 [2.9%]	Near consistent

Period: \*below normal/normal/above normal

**Predictors and Period used for March to May 2015 Outlooks (refer to OCOF #88): Nino 3.4 SST anomaly NDJ**

\* 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 July to September 2015**

**Predictors and Period used: Nino 3.4**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	16%	498.1	84%		26.7%	66.7%
Nui	26%	596.9	74%		10.8	66.7%
Funafuti	26%	693.6	74%		10.1%	66.7%
Niulakita	50%	602.1	50%		-3.0%	18.2%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	9%	399.6	9%	629.7	82%	25.8%	51.5%
Nui	17%	505.0	20%	688.5	63%	10.6%	24.2%
Funafuti	13%	589.6	22%	813.1	65%	15.2%	45.5%
Niulakita	29%	513.8	40%	710.9	31.0%	-3.8%	21.2%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for June to August 2015**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	18%	405	49%	705	33%		
Nui	15%	533	58%	729	27%		
Funafuti	21%	671	49%	859	30%		
Niulakita	15%	492	61%	709	24%		

## **Summary Statements**

### **Rainfall for May 2015:**

Nanumea below Normal rainfall

Nui & Funafuti above Normal rainfall

Niulakita Normal rainfall

### **Accumulated rainfall for March to May 2015, including outlook verification:**

Nanumea: Normal rainfall with verification outlook of near consistent, confidence in the outlook is high

Nui and Funafuti: Above normal rainfall with verification outlook of consistent, confidence in the outlook is moderate.

Niulakita: Above normal rainfall with verification outlook of near consistent, the confidence in the outlook is very low

### **Outlooks for July to September 2015:**

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

Nanumea, Nui, & Funafuti: the most likely outlook is above normal rainfall with normal the next most likely outcome.

Niulakita: the most likely outcome is Normal with above normal the next.

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

Predicts Normal to above Normal rainfall for the whole of Tuvalu

The overall prediction for Tuvalu using SCOPIC and POAMA is 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:  $X \geq 35$