

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 109

**Country Name:** Tuvalu

### TABLE 1: Monthly Rainfall

Station (include data period)	September 2016						
	July 2016 Total	August 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	340.9	184.4	66.9	95.6	177.1	140.8	19/75
Nui	401.3	188.9	31.8	128.8	213.4	182.3	4/71
Funafuti	389.6	224.0	161.4	163.1	251.5	203.7	26/84
Niulakita	79.8	63.0	167.7	169.4	227.2	192.0	22/64

### TABLE 2: Three-monthly Rainfall July to September 2016

[Please note that the data used in this verification should be sourced from table 3 of OCOF #105]

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	592.2	402.7	629.7	513.9	42/75	4/16/80	Near Consistent
Nui	622.6	509.1	688.7	599.4	42/71	3/33/64	Near Consistent
Funafuti	775.0	591.3	804.0	693.9	53/84	4/23/73	Near Consistent
Niulakita	310.5	514.2	716.2	607.0	6/64	17/42/41	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 July to September 2016 Outlooks (refer to OCOF #105):

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for  
November 2016 to January 2017**

Predictors and Period used: NINO3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	70%	904	30%		31%	76%
Nui	55%	987	45%		2%	59%
Funafuti	49%	1048	51%		-1.2%	58%
Niulakita	43%	992	57%		6%	6%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	45%	631	40%	1001	15%	27%	55%
Nui	39%	848	29%	1114	32%	2%	39%
Funafuti	38%	931	25%	1153	37%	-0.1%	42%
Niulakita	22%	812	36%	1122	42%	12%	48%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
November 2016 to January 2017**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		

**Summary Statements**

## Rainfall for September 2016:

Rainfall in September 2016 was **below normal** rainfall for all meteorological stations

## Accumulated rainfall for July to September 2016, including outlook verification:

Rainfall over the last three months was **normal** rainfall for Nanumea, Nui and Funafuti, while Niulakita received **below normal** rainfall

The SCOPIC outlooks for the last three months were near consistent at the 6 meteorological stations.

## Outlooks for November 2016 to January 2017:

### 1. SCOPIC:

At Nanumea, below normal rainfall is the most likely outcome with normal rainfall the next most likely.

The outlook for Nui offers little guidance for the coming season as the chances of **above-normal**, **normal** and **below-normal** rainfall are similar.

The Funafuti outlook is mixed, with similar chances for below-normal and above-normal totals; near-normal is the least likely outcome.

For Niulakita above normal rainfall is the most likely outcome with normal rainfall the next most likely.

Outlook confidence: Nanumea with very high confidence, low confidence for Nui, Funafuti with very low confidence while Niulakita with good confidence

### 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:  $X \geq 35$