

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 95

**Country Name:** Tuvalu

### TABLE 1: Monthly Rainfall

Station (include data period)	July 2015						
	May 2015 Total	June 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	152.0	108.9	229.7	123.4	214.6	168.2	53 of 75
Nui	222.2	289.6	503.7	162.0	230.2	197.9	68 of 70
Funafuti	282.8	194.7	519.6	189.7	272.0	220.2	79 of 83
Niulakita	208.0	303.8	286.9	164.1	252.1	200.5	48 of 63

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

[Please note that the data used in this verification should be sourced from table 3 of OCOF #91]

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	490.6	468.3	698.0	595.1	27 of 75	20/38/42 [12.8%]	Near consistent
Nui	834.8	502.3	635.5	573.5	65 of 70	14/39/47 [25.5%]	Consistent
Funafuti	997.1	595.8	774.4	699.0	72 of 83	20/30/50 [22.5%]	Consistent
Niulakita	798.7	534.6	699.2	606.0	48 of 63	37/37/26 [-1.8%]	Near consistent

Period: \*below normal/normal/above normal

**Predictors and Period used for May to July 2015 Outlooks (refer to OCOF #91): Jan – March 2015.....NINO 3.4**

\* 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 September to November 2015**

**Predictors and Period used: NINO 3.4**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	12%	470.7	88%		14.7%	63.6%
Nui	7%	620.0	93%		24.1%	63.6%
Funafuti	4%	732.7	96%		27.6%	75.8%
Niulakita	62%	708.1	38%		-1.2%	45.5%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	4%	325.0	6%	577.7	90%	19.0%	54.5%
Nui	2%	498.5	12%	730.5	86%	22.6%	54.5%
Funafuti	1%	620.8	33%	843.2	66%	24.7%	54.5%
Niulakita	42%	608.2	24%	839.9	34%	-3.5%	27.3%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2015**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	9%	460	21%	664	70%		
Nui	9%	497	21%	726	70%		
Funafuti	18%	632	21%	810	61%		
Niulakita	33%	595	27%	811	40%		

## **Summary Statements**

**Rainfall for July 2015:** All stations recorded above normal rainfall.

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

Normal rainfall for Nanumea with near consistent verification.

Above normal rainfall for Nui, Funafuti and Niulakita. Verification results are consistent for Nui and Funafuti and near consistent for Niulakita.

**Outlooks for September to November 2015:**

**1. SCOPIC:** Above normal rainfall is favoured for Nanumea, Nui and Funafuti with normal rainfall the next most likely outcome. The skill of these outlooks is very high. Below normal rainfall is the most likely outlook for Niulakita with above normal the next most likely outcome. The skill of the Niulakita outlook is very low.

**2. POAMA:** Above normal rainfall is favoured for Nanumea, Nui and Funafuti and above normal is most likely for Niulakita for the upcoming three months.

Overall predictions: Normal to above normal rainfall is favoured for Nanumea, Nui and Funafuti for the next three months. There is little guidance for Niulakita.

**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:  $X \geq 35$