

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 94

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	June 2015						
	April 2015 Total	May 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	286.9	152	108.9	135.3	206.2	170.5	17 of 75
Nui	227.8	222.2	289.6	145.3	216.1	172.7	61 of 70
Funafuti	356.2	282.8	194.7	162.4	265.7	216.6	39 of 83
Niulakita	276.3	208	303.8	142.1	241.4	192.4	50 of 63

**TABLE 2: Three-monthly Rainfall
April to June 2015**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #90]

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	547.8	549.7	880.5	770	27/75	18/36/46 [14.6%]	Inconsistent
Nui	739.6	603.2	828.1	698.5	49/70	27/31/42 [10.9%]	Near Consistent
Funafuti	833.7	671.1	886.4	787.1	65/83	25/32/43 [9.6%]	Near Consistent
Niulakita	788.1	674.1	914.0	828.6	49/63	22/41/37 [3.6%]	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for April to June 2015 Outlooks (refer to OCOF #90):

* 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 August to October 2015

Predictors and Period used: NINO 3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	6%	502.4	94%		29.6%	75.8%
Nui	6%	567.0	94%		20.7%	72.7%
Funafuti	11%	673.0	89%		20.3%	69.7%
Niulakita	43%	663.0	57%		-2.8%	57.6%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	4%	342.1%	15%	595.2	81%	23.0%	42.4%
Nui	7%	485.5	21%	702.5	72%	15.2%	48.5%
Funafuti	7%	597.4	21%	799.6	72%	13.9%	51.5%
Niulakita	28%	574.4	24%	829.1	48%	-2.4%	30.3%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	15.15%	428	27.27	636	58%		
Nui	9%	530	30%	637	61%		
Funafuti	36%	592	31%	845	33%		
Niulakita	33%	490	34%	799	33%		

Summary Statements

Rainfall for June 2015:

Rainfall from last month was Above Normal for Nui and Funafuti Island. Nanumea recorded as Below Normal while Niulakita recorded Normal Rainfall.

Accumulated rainfall for April to June 2015, including outlook verification:

Rainfall over the last 3 months was Normal rainfall for the 3 stations including Nui, Funafuti and Niulakita. While Nanumea Island received Below Normal rainfall for the last three month.

Verification of the 3-month rainfall, the SCOPIC outlooks for the last three month were Near Consistent for Nui and Funafuti, consistent for Niulakita, while Nanumea was Inconsistent.

Outlooks for August to October 2015:

1. SCOPIC:

Nanumea and Nui, Above Normal rainfall is the most likely outcome with Normal rainfall the next most likely. Confidence in the outlook is high.

Funafuti also predict Above Normal rainfall is the most likely outcome with Normal rainfall the next most likely. Confidence in the outlook is high.

Niulakita, Above Normal rainfall is the most likely outcome with Below Normal rainfall the next most likely. Confidence in the outlook is very low.

2. POAMA:

For Nanumea and Nui Above Normal is favoured with Normal rainfall the next mostly likely.

Funafuti is favoured Below Normal with Above Normal rainfall the next mostly likely.

Niulakita result from POAMA: There is near equal likelihood of below normal, above normal and normal rainfall for the coming season.

Overall for Tuvalu is Above Normal to Normal

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: $X \geq 35$