

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 103

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	March 2016						
	January 2016 Total	February 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	308.7	685.6	513.9	177.6	304.6	251.5	67/76
Nui	66.2	420.9	146.8	236.0	339.9	267.1	8/71
Funafuti	78.9	329.3	312.1	272.1	369.5	323.3	38/84
Niulakita							

TABLE 2: Three-monthly Rainfall January to March 2016

[Please note that the data used in this verification should be sourced from table 3 of OCOF #99]

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	1508.2	724.6	1072.1	935.9	73/76	0/10/90 [42.2%]	Consistent
Nui	633.9	848.5	1097.0	994.2	16/71	8/22/70 [8.7%]	Inconsistent
Funafuti	720.3	989.1	1187.0	1070.9	7/84	3/43/54 [5.1%]	Inconsistent
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Period: *below normal/normal/above normal

Predictors and Period used for January to March 2016 Outlooks (refer to OCOF #99):

* 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
May to July 2016**

Predictors and Period used: NINO3.4 SST Anomalies Feb – Mar 2016

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	11%	583.0	89%		14%	56%
Nui	13%	574.8	87%		11%	68%
Funafuti	4%	701.0	96%		21%	68%
Niulakita						

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	4%	469.0	30%	694.5	66%	14%	53%
Nui	1%	504.7	19%	637.2	80%	25%	68%
Funafuti	2%	601.3	4%	781.9	94%	22%	59%
Niulakita							

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
May to July 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	18%	558	39%	767	42%		
Nui	15%	576	52%	753	33%		
Funafuti	18%	699	30%	808	52%		
Niulakita	52%	536	21%	668	27%		

Summary Statements

Rainfall for March 2016:

Rainfall in March 2016 was **above normal** rainfall for Nanumea. Below normal rainfall was recorded at Nui, while Funafuti recorded **normal** rainfall.

Accumulated rainfall for January to March 2016, including outlook verification:

The SCOPIC outlooks for the last three months was recorded **below normal** rainfall for Nui and Funafuti with **inconsistent**, while Nanumea recorded **above normal** rainfall with **consistent**

Outlooks for May to July 2016:

1. SCOPIC:

Seasonal rainfall outlooks for Tuvalu for May to July 2016. Nanumea, Nui and Funafuti predict **above normal** rainfall is the most likely outcome with **normal** rainfall the next most likely.

Nanumea outlook is **good confidence** while Nui and Funafuti are **high outlook confidence**.

2. POAMA:

For Nanumea, above normal rainfall is favoured with normal rainfall the next most likely. Nui and Funafuti, normal rainfall is favoured with above normal rainfall the next most likely, while Niulakita below normal rainfall is favoured with above normal rainfall is the next most likely

Overall Predictions: Normal to above normal rainfall for the whole of Tuvalu

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: $X \geq 35$