

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 119

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			July 2017				
	May 2017 Total	June 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	311.9	247.6	219.8	125.5	222.0	169.7	51/76
Nui	403.5	158.4		163.4	234.1	199.7	27/72
Funafuti	276.4	180.4	207.9	190.8	281.2	221.6	36/85
Niulakita	125.5	342.6	250.4	162.6	254.7	200.5	43/65

**TABLE 2: Three-monthly Rainfall
May to July 2017**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #115]

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	779.3	483.6	704.7	607.2	60/76	36/37/27	Near consistent
						18%	
Nui	N/A	509.6	663.0	576.0	N/A	36/42/22	
						30%	
Funafuti	664.7	606.7	788.4	701.6	36/85	36/42/22	Consistent
						30%	
Niulakita	718.5	538.0	751.2	613.7	43/65	36/35/29	Near consistent
						02%	

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 April 2017 to June 2017 Outlooks (refer to OCOF #115):
NINO3.4 (Feb-Mar 2017)

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

Predictors and Period used: NINO 3.4 (June – July 2017)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	28%	472.4	72%		36.3%	73.1%
Nui	35%	620.0	65%		24.7%	71.6%
Funafuti	40%	737.2	60%		11.5%	65.7%
Niulakita	50%	698.6	50%		-1.6	22.2%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	15%	325.1	38%	602.8	48%	35.4%	59.7%
Nui	19%	495.2	38%	734.4	43%	19.7%	49.3%
Funafuti	22%	620.9	37%	846.6	41%	11.2%	49.3%
Niulakita	34%	612.1	34%	823.6	32%	-1.6%	30.2%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	42	460	13	664	45		
Nui	45	497	19	726	36		
Funafuti	45	632	7	810	48		
Niulakita	21	595	12	811	67		

Summary Statements

Rainfall for July 2017:

Rainfall in July 2017 was **normal** at Nanumea, Funafuti and Niulakita.

Accumulated rainfall for May to July 2017, including outlook verification:

Rainfall over the last three months was **above normal** rainfall at Nanumea station. Normal rainfall was recorded at Funafuti and Niulakita.

The SCOPIC outlooks for the three months were **Near-consistent** for Nanumea and Niulakita stations, while Funafuti's verification was consistent.

Outlooks for September to November 2017:

1. SCOPIC:

Above normal rainfall is the most likely outcome at Nanumea, Nui and Funafuti stations, with **normal** rainfall the next most likely

Niulakita: The outlook offers little guidance for the coming season as the chances of above-normal, normal and below-normal rainfall are similar. Very low confidence.

Confidence in the outlook for Nanumea is exceptional, high for Nui and good confidence at Funafuti .

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: $X \geq 35$