

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 126

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			February 2018				
	December 2017 Total	January 2018 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	423.6	251.6	645.1	162	301	263	74/78
Nui	324.4	76.7	370.9	225	332	277	55/73
Funafuti	492.9	189.2	644.3	264	423	335	81/86
Niulakita	288.8	134.3	N/A	264	379	318	

**TABLE 2: Three-monthly Rainfall
December 2017 to February 2018**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #122]

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	1320.3	745.9	1116.4	961.0	67/76	39/44/17 [34%]	Near-consistent
Nui	772.0	859.6	1192.2	1065.5	20/70	35/33/32 [20%]	Consistent
Funafuti	1326.4	995.1	1238.5	1126.1	67/85	35/31/34 [1%]	Inconsistent
Niulakita	N/A	886.5	1163.0	1012.0		31/34/35 [8%]	

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 December 2017 to February 2018 Outlooks (refer to OCOF #122): NINO3.4 for September – October 2017

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2018

Predictors and Period used: NINO 3.4 SST Anomalies for January – February 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	76	629	24		29%	71%
Nui	69	584	31		20%	71%
Funafuti	68	705	32		18%	72%
Niulakita	59	642	41		3%	55%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	47	547	40	765	13	20%	57%
Nui	39	521	39	725	22	5%	47%
Funafuti	51	616	36	793	13	27%	62%
Niulakita	44	573	31	744	25	6%	39%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2018

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	61	626	27	891	12		
Nui	61	559	34	809	5		
Funafuti	67	638	18	829	15		
Niulakita	61	565	18	648	21		

Summary Statements

Rainfall for February 2018:

Rainfall was above normal at Nanumea, Nui and Funafuti. No report received from Niulakita

Accumulated rainfall for December 2017 to February 2018, including outlook verification:

Rainfall over the last three months was above normal at Nanumea and Funafuti. Below normal rainfall recorded at Nui.

The SCOPIC outlooks for the last three months were consistent at Nui, near-consistent at Nanumea, and inconsistent at Funafuti.

Outlooks for April to June 2018:

1. SCOPIC:

The rainfall outlook for April-June for Nanumea, Funafuti and Niulakita shows below normal as the most likely outcome, with normal rainfall the next most likely. Above normal rainfall is the least likely.

Nui's outlook for April to June shows near equal likelihood of below normal and normal rainfall. Above normal rainfall is the least likely.

2. POAMA:

Rainfall outlook favours below normal rainfall for all stations

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: $X \geq 35$