Pacific Islands - Online Climate Outlook Forum (OCOF) No. 108

Country Name:

TABLE 1: Monthly Rainfall

Station (include data period)	June 2016 Total	July 2016 Total	August 2016				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	360.8	340.9	184.4	143.6	222.7	188.4	36/75
Nui	176.0	401.3	188.9	136.3	257.0	180.2	37/71
Funafuti	244.2	389.6	224.0	183.8	281.9	214.6	47/84
Niulakita	437.2	79.8	63.0	146.4	243.0	199.3	5/64

TABLE 2: Three-monthly Rainfall
June to August 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #104]

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	886.1	440.7	696.0	584.2	67/75	2/20/78	Consistent
Nui	766.2	486.2	723.6	614.4	54/71	3/16/81	Consistent
Funafuti	857.8	584.3	835.1	716.6	59/84	1/42/57	Consistent
Niulakita	580.0	535.1	738.0	602.2	31/64	13/29/58	Near-Consistent

Period:*below normal/normal/above normal

Predictors and Period used for June to August 2016 Outlooks (refer to OCOF #104):

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* Forecast is underlined 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 October to December 2016

Predictors and Period used:

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	69%	647	31%		38%	74%
Nui	57%	853	43%		8%	63%
Funafuti	52%	902	48%		-2%	53%
Niulakita	47%	822	53%		2%	61%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	42%	541	45%	755	13%	34%	59%
Nui	38%	712	31%	922	31%	6%	30%
Funafuti	35%	811	33%	1008	32%	-1.2%	27%
Niulakita	33%	732	31%	937	36%	-0.1%	36%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for October to December 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	58	627	15	836	27		
Nui	46	528	27	869	27		
Funafuti	52	802	12	949	36		
Niulakita	36	708	12	902	52		

Summary Statements

Rainfall for August 2016:
Rainfall in August was **normal** rainfall for all stations except for Niulakita was recorded as **below normal** rainfall

Accumulated rainfall for June to August 2016, including outlook verification:
Rainfall over the last three months was **above normal** rainfall for all stations, while Niulakita recorded as **normal** rainfall.

The SCOPIC outlooks for the last three months were **consistent** for Nanumea, Nui and Funafuti while Niulakita was **near consistent**

Outlooks for October to December 2016:
1. SCOPIC:
Seasonal rainfall outlooks for Tuvalu for October to December 2016

Nanumea, **normal** rainfall is the **most likely outcome** with **below normal** rainfall the **next most likely**

The outlooks for Nui, Funafuti and Niulakita offer little guidance for the coming season as the chances of above-normal, normal and below-normal rainfall are similar.

2. POAMA:

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

For Nui, below normal rainfall is favoured with normal and above normal rainfall the same next most likely outcome.

Niulakita, above normal rainfall is favoured with below normal rainfall the next most likely outcome.

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35   Exceptional: X ≥ 35