Pacific Islands - Online Climate Outlook Forum (OCOF) No. 117

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			May 2017				
	March 2017 Total	April 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	247.3	206.4	276.4	154	234	203	59/77
Nui	363.5	413.6	403.5	151	213	185	67/72
Funafuti	281.6	611	276.4	181	254	214	62/85
Niulakita	199.9	573.7	125.5	176	249	210	13/65

TABLE 2: Three-monthly Rainfall
March to May 2017
[Please note that the data used in this verification should be sourced from table 3 of OCOF #113]

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	730.1	550	881	772	37/77	**41**/38/21 [22%]	Near-consistent
Nui	1180.6	597	829	699	64/72	**38**/36/26	Inconsistent
Funafuti	1169.0	678	902	799	74/85	**38**/36/26 [8%]	Inconsistent
Niulakita	899.1	681	915	829	41/65	**38**/31/31 [5%]	Near-consistent

Period:*below normal/normal/above normal

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*Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).
Forecast is <u>near-consistent</u> 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 <u>inconsistent</u> 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
July to September 2017

Predictors and Period used: Nino 3.4 (April-May)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	22%	514	78%		19%	67%
Nui	18%	602	82%		22%	69%
Funafuti	20%	702	80%		20%	66%
Niulakita	42%	602	58%		01%	59%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	9%	403	28%	629	**63%**	20%	51%
Nui	8%	513	34%	689	**58%**	21%	51%
Funafuti	8%	593	33%	795	**59%**	19%	49%
Niulakita	22%	513	**40%**	713	38%	1%	44%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	36	405	**49**	705	15		
Nui	21	533	**67**	729	12		
Funafuti	**43**	671	18	859	39		
Niulakita	30	492	21	709	**49**		

Summary Statements

Rainfall for May 2017:
Rainfall in May 2017 was **above-normal** at Nanumea, Nui and Funafuti. **Below-normal** rainfall was recorded at Niulakita

Accumulated rainfall for March to May 2017, including outlook verification:
Rainfall over the last three months was **normal** at Nanumea and Niulakita, while Funafuti and Nui recorded **above-normal** rainfall.

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

Outlooks for July to September 2017:
1. **SCOPIC:**
   The seasonal rainfall outlook for July to Sept 2017 shows the most likely outcome is **above-normal**, with **normal** the next most likely at Nanumea, Nui and Funafuti. Niulakita shows a near equal likelihood of **above-normal** and **normal** rainfall, with **below-normal** rainfall the least likely.

2. **POAMA:**
   Nanumea and Nui; Normal rainfall is favoured with below-normal rainfall the next most likely.

   Funafuti; below-normal rainfall is favoured with above-normal rainfall the next most likely.

   Niulakita; Above-normal rainfall is favoured with below-normal rainfall the next most likely.

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