Pacific Islands - Online Climate Outlook Forum (OCOF) No. 120

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			August 2017				
	June 2017 Total	July 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	247.6	219.8	288.4	147	222	188	63/76
Nui	158.4	187.0	380.6	137	256	180	64/72
Funafuti	180.4	207.9	145.7	185	280	215	18/85
Niulakita	342.6	250.4	73.4	145	236	197	8/65

TABLE 2: Three-monthly Rainfall
June to August 2017

[Please note that the data used in this verification should be sourced from table 3 of OCOF #116]

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	755.8	444	697	593	58/76	15/36/**49** [21%]	Consistent
Nui	726.0	493	727	629	48/72	19/33/**48** [18%]	Near-consistent
Funafuti	534.0	585	847	719	17/85	12/43/**45** [19%]	Inconsistent
Niulakita	666.4	537	738	592	40/65	25/36/**39** [4%]	Near-consistent

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 June to August 2017 Outlooks (refer to OCOF #116):

Nino 3.4 for February to April 2017

TABLE 3: Seasonal Climate Outlooks using SCOPIC for October to December 2017

Predictors and Period used: Nino3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	54	630	46		38%	76%
Nui	51	841	49		7%	62%
Funafuti	50	895	50		-0.1%	54%
Niulakita	50	825	50		0.3%	60%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	33	535	**44**	755	23	33	55
Nui	33	711	34	921	33	6	25
Funafuti	33	810	34	1008	33	-1.1	28
Niulakita	34	732	33	995	33	0	36

TABLE 4: Seasonal Climate Outlooks using POAMA2 for October to December 2017

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	**55**	627	21	836	24		
Nui	**52**	528	18	869	30		
Funafuti	**39**	802	25	949	36		
Niulakita	33	708	5	902	**62**		

Summary Statements

Rainfall for August 2017:
Rainfall in August was **above normal** rainfall at Nanumea and Nui, **below normal** rainfall at Funafuti and Niulakita.

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

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

Outlooks for October to December 2017:

1. **SCOPIC:**
   Nanumea rainfall outlook for October to December 2017 shows **normal** the most likely outcome, with **below-normal** the next most likely. **Above-normal** is the least likely

   Nui, Funafuti and Niulakita: The outlooks offers little guidance as the chances of **above-normal, normal and below normal** rainfall are similar. (Note: This situation is a result of the current neutral ENSO pattern)

   Outlook confidence ranges from very low to very high. For Nanumea there is a very high outlook confidence, moderate outlook confidence for Nui, while Funafuti and Niulakita there is very low outlook confidence.

2. **POAMA:**

   Nanumea and Nui outlooks favours below-normal, with above-normal the next most likely.

   Funafuti outlooks is mixed, with similar chances for below-normal and above-normal, near-normal is the least likely outcome.

   Niulakita outlooks favours above-normal with below-normal 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