Pacific Islands - Online Climate Outlook Forum (OCOF) No. 107

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			July 2016				
	May 2016 Total	June 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	330.1	360.8	340.9	125.2	218.1	169.4	67/75
Nui	207.7	176.0	401.3	163.0	231.1	198.8	65/71
Funafuti	311.9	244.2	389.6	190.2	275.7	220.7	69/84
Niulakita	342.5	437.2	79.8	165.7	257.0	208.0	4/64

TABLE 2: Three-monthly Rainfall
May to July 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #103]

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	1031.8	476.7	698.0	595.1	71/75	2/20/78 [19%]	Consistent
Nui	785	504.7	637.2	574.8	55/71	1/6/93 [32%]	Consistent
Funafuti	945.7	601.3	781.9	701.0	71/84	1/5/94 [30%]	Consistent
Niulakita	859.5	536.3	719.7	610.1	54/64	21/31/48 [1%]	Consistent

Period:*below normal/normal/above normal

Predictors and Period used for May to July 2016 Outlooks (refer to OCOF #103):

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* Forecast is underline 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 September to November 2016

Predictors and Period used: Nino3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	44%	475	56%		38%	74%
Nui	47%	620	53%		23%	70%
Funafuti	47%	737	53%		10%	64%
Niulakita	50%	701	50%		-1%	32%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	23%	334.4	**45%**	618.5	32%	36%	61%
Nui	27%	501.7	**39%**	783.3	34%	18%	50%
Funafuti	28%	620.9	37%	850.0	35%	12%	46%
Niulakita	33%	608.2	34%	824.2	33%	-1.9%	21%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	49%	460	24%	664	27%		
Nui	36%	497	43%	726	21%		
Funafuti	49%	632	15%	810	36%		
Niulakita	21%	595	30%	811	49%		

Summary Statements

Rainfall for July 2016:
Rainfall in July was **above normal** rainfall for all meteorological stations excluding Niulakita station was **below normal** rainfall.

Accumulated rainfall for May to July 2016, including outlook verification:

Rainfall over the last three months was **above normal** rainfall with verification of consistent for all meteorological stations

Outlooks for September to November 2016:
1. SCOPIC:
Seasonal rainfall outlooks for Tuvalu for September to November 2016
For Nanumea and Nui, normal rainfall is the most likely outcome with above normal rainfall the next most likely. The outlook offers little guidance Funafuti and Niulakita as the chances of above-normal, normal and below-normal rainfall are similar

Outlook confidence: For Nanumea there is exceptional outlook confidence, Nui with high outlook confidence, Funafuti with good outlook confidence and for Niulakita is very low outlook confidence.

2. POAMA:

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