Pacific Islands - Online Climate Outlook Forum (OCOF) No. 112

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	October 2016 Total	November 2016 Total	December 2016				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	46.2	102.7					
Nui	91.2	101.4	81.4	144	221	184	1/69
Funafuti	292.8	283.5	232.1	202	291	247	13/84
Niulakita	292.1	210.5	446.2	212	312	262	53/63

TABLE 2: Three-monthly Rainfall
October to December 2016
[Please note that the data used in this verification should be sourced from table 3 of OCOF #105]

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							
Nui	274	712.2	921.7	853.0	3/69	32/34/34 [5]	Near-consistent
Funafuti	808.4	811.0	1008.2	902.0	27/84	33/34/33 [01]	Near-Consistent
Niulakita	948.8	731.6	937.0	822.0	42/62	33/34/33 [-1.0]	Near-consistent

Period:*below normal/normal/above normal

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[*] 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).

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February 2017 to April 2017

Predictors and Period used: NINO3.4 (2 months)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	67	827	33		17	64
Nui	58	817	42		3	59
Funafuti	68	928	32		19	68
Niulakita	44	924	56		01	56

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	58	628	28	992	14	35	57
Nui	43	698	32	957	25	09	47
Funafuti	51	816	17	1048	32	14	55
Niulakita	31	819	33	1013	36	-0.4	36

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February 2017 to April 2017

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		

Summary Statements

Rainfall for December 2016:
Rainfall in December was **below normal** rainfall at Nui, **normal** rainfall at Funafuti and **above normal** rainfall at Niulakita

Accumulated rainfall for October 2016 to December 2016, including outlook verification:

Rainfall over the last months was **below normal** rainfall at Nui and Funafuti and Niulakita station recorded **above normal** rainfall. The outlooks were near-consistent with the observed rainfall.

Outlooks for February 2017 to April 2017:
1. SCOPIC:
At Nanumea and Nui, **below normal** rainfall is the favoured with **normal** rainfall the next most likely. Outlook confidence is **exceptional** at Nanumea and **moderate** at Nui

The outlook for Niulakita offers little guidance as the chances of above normal, normal and below normal rainfall are similar. Outlook confidence is very low.

At Funafuti, below normal rainfall is the most likely outcome with above normal rainfall the next most likely. Outlook confidence is good.

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