Pacific Islands - Online Climate Outlook Forum (OCOF) No. 97

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			September 2015				
	July 2015 Total	August 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	229.7	203.6	81.2	95.6	177.1	140.9	23/75
Nui	503.7	97.3	193.4	128.8	215.5	180.3	44/70
Funafuti	519.6	131	130.1	164.1	253.2	209.5	19/83
Niulakita	286.9	343.8					

TABLE 2: Three-monthly Rainfall
July to September 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #92]

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	514.5	399.6	629.7	498.1	39/75	9/9/82	Near Consistent
						[25.8%]	
Nui	794.4	505.0	688.5	596.9	55/70	17/20/63	Consistent
						[10.6%]	
Funafuti	780.7	589.6	813.1	693.6	54/83	13/22/65	Near Consistent
						[15.2%]	

Period:*below normal/normal/above normal

Predictors and Period used for July to September 2015 Outlooks (refer to OCOF #93):

Nino 3.4

*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 November 2015 to January 2016

Predictors and Period used: Nino 3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	4%	882.8	96%		21.7%	66.7%
Nui	11%	982.2	89%		13.0%	*69.7%*
Funafuti	33%	1038.2	67%		-0.9%	54.5%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	1%	604.0	8%	996.7	**91%**	26.7%	51.5%
Nui	2%	830.5	**60%**	1110.7	38%	14.3%	57.6%
Funafuti	3%	927.8	**66%**	1159.5	31%	6.3%	45.5%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2015 to January 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	24%	794	12%	1155	**64%**		
Nui	15%	673	18%	1119	**67%**		
Funafuti	**46%**	897	15%	1017	39%		

Summary Statements

Rainfall for September 2015:

Below normal rainfall observed at Nanumea and Funafuti.

Normal rainfall collected at Nui.

Accumulated rainfall for July to September 2015, including outlook verification:

Nanumea and Funafuti rainfall was normal with verification of near consistent.
Nui rainfall was above normal with consistent in verification.

Outlooks for November 2015 – January 2016:

1. SCOPIC:
Prediction:

The Nanumea outlook is most likely above normal with normal the next likely outcome. Confidence in the outlook is very high.
The Nui and Funafuti outlook is favoured to be normal with above normal the next most likely; confidence in the outlook is good for Nui and moderate for Funafuti.

2. POAMA:

POAMA favours above normal for Nanumea and Nui and below normal is the most likely for Funafuti.

Overall prediction for November 2015 to January 2016:

Normal to above normal for Nanumea and Nui with good to very high confidence in the outlook. Normal rainfall for Funafuti with moderate confidence in the outlook.

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

Very Low: $X < 0.0$	Low: $0 \leq X < 5$	Moderate $5 \leq X < 10$	Good: $10 \leq X < 15$	High: $15 \leq X < 25$
Very High: $25 \leq X < 35$	Exceptional: $X \geq 35$			