Pacific Islands - Online Climate Outlook Forum (OCOF) No. 90

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)			February 2015				
	December 2014 Total	January 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	210.6	298.0	111.6	162.2	301.3	261.7	16/75
Nui	247.9	437.3	142.2	231.0	331.9	278.9	11/70
Fun	330.7	891.3	429.4	264.4	423.2	347.8	68/83
Niulakita	209.4	106.8	175.0	263.9	382.0	328.0	10/63

TABLE 2: Three-monthly Rainfall
December 2014 to February 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #86]

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	620.20	756.0	1110.4	961.0	20/74	13/41/46 41.4 leps	Inconsistent
Nui	827.40	851.1	1209.3	1066.8	23/69	24/38/38 11.9 leps	Near consistent
Funafuti	1651.40	1004.6	1238.5	1133.9	77/52	24/36/40 13.1 leps	Near Consistent
Niulakita	491.20	854.3	1157.4	1003.5	21/62	33/39/28 -1.4 leps	Near consistent

Period:*below normal/normal/above normal

Predictors and Period used for December 2014 to February 2015 Outlooks (refer to OCOF #86):

September - October 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 April to June 2015

Predictors and Period used:

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	34	627.2	66		26.4	71.9%
Nui	38	580.2	62		11.5	69.7%
Funafuti	42	694.9	58		5.9	66.7%
Niulakita	53	622	47		22	57.6%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	23	532.0	34	748.2	**43**	17.5	46.9
Nui	29	521.0	27	723.3	**44**	8.3	42.4
Funafuti	23	616.7	34	785.5	**43**	13.2	48.5
Niulakita	30	570.9	**36**	721.1	**34**	-1.2	42.4

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2015

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	6	626	42	891	52		
Niulakita	15	565	58	648	27		
Nui	6	559	58	648	27		
Funafuti	9	638	55	829	36		

Summary Statements

Rainfall for February 2015:

Below Normal for Nanumea , Nui & Niulakita stations , Above Normal for Funafuti

Accumulated rainfall for December 2014 to February 2015, including outlook verification:

Below Normal for Nanumea with verification Outlook of inconsistent

Above normal for Funafuti with verification outlook of near consistent

Below normal for Niulakita and Nui with verificaion outlook of near consistent

Outlooks for April to June 2015:

1. SCOPIC:

-For Nanumea above normal rainfall is likely with Normal the next most likely. Confidence in the outlook is high.

-For Nui above normal is the most likely outcome with below normal the next likely. Confidence in the outlook is moderate-For Funafuti above normal rainfall is likely with normal the next most likely. Confidence in the Outlook is high.

-For Niulakita normal to above normal rainfall is likely. Confidence is the outlook is very low.

2. POAMA:

Above Normal for Nanumea

Normal to above Normal for Niulakita , Nui, & Funafuti

Overall Prediction for Tuvalu

Normal to Above Normal rainfall for the whole of Tuvalu

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: $X \geq 35$			