

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 73

Country Name: TUVALU

TABLE 1: Monthly Rainfall

Station (include data period)	September 2013						
	July 2013 Total	August 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea							
Nui	92.4	52.2	113.5	130.1	219.7	185.0	2 of 68
Funafuti	288.3	190.5	157.1	164.2	251.5	209.5	24 of 81
Niulakita	172.6	222.9	119.1	177.7	231.3	193.8	12 of 61

TABLE 2: Three-monthly Rainfall July to September 2013

[Please note that the data used in this verification should be sourced from table 3 of OCOF #69]

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	258.1	519.8	688.7	601.9	7 of 68	47.0%/34.5%/18.5% [11.2%]	Consistent
Funafuti	635.9	587.9	814.3	693.6	33 of 81	37.5%/33.5%/29.0% [0.0%]	Near Consistent
Niulakita	514.6	509.1	716.2	612.3	22 of 61	46.4%/33.9%/19.7% [12.0%]	Near Consistent

Period: *below normal/normal/above normal

Predictors and Period used for July to September 2013 Outlooks (refer to OCOF #69):

Predictors: SOI Values

Period: March - May

* 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).

**Seasonal Climate Outlooks using SCOPIC for
November 2013 to January 2014**

Predictors and Period used: SOI Values using July to September period.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea						
Nui	58.6%	993.0	41.4%		14.1%	68.7%
Funafuti	49.7%	1026.9	50.3%		-1.3%	47.5%
Niulakita	45.7%	992.9	54.3%		2.4%	56.7%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea							
Nui	40.6%	861.6	30.9%	1118.9	28.5%	13.6%	32.8%
Funafuti	35.5%	927.2	29.4%	1139.0	35.1%	-1.0%	33.8%
Niulakita	26.9%	811.7	35.7%	1122.8	37.4%	4.1%	46.7%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
November 2013 to January 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nui	63.33%	673	26.67%	1119	10.00%		
Funafuti	36.67%	897	26.66%	1017	36.67%		

Summary Statements

Rainfall for September 2013:

Below normal rainfall collected at Nui and Funafuti and Normal rainfall collected at Niulakita in the southern division.

Accumulated rainfall for July–September 2013, including outlook verification:

Below normal rainfall received at Nui in the central division with consistent in verification.

Normal rainfall collected at the southern division which was Funafuti and Niulakita with near consistent in verification.

Outlooks for November 2013–January 2014:

1. SCOPIC:

Below normal rainfall predicts for Nui with rainfall less than 861.6mm with good skills.

Below normal for Funafuti with very low skills.

Above normal to normal rainfall predicts for Niulakita with rainfall greater than 1122.8mm or not less than 881.7mm with low skills.

2. POAMA:

Below normal rainfall for Nui and equal chances of above and below normal rainfall for Funafuti.

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: $X \geq 35$