

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 77

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	January 2014						
	November 2013 Total	December 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Funafuti	221.3	499.1	519.2	304.8	470.7	408.9	63/82
Nui	119.9	278.1	220.3	261.6	461.0	356.9	15/69
Niulakita	210.6	346.7	299.1	274.3	427.3	363.2	22/62
Nanumea	5.8	217.5	114.4	161.0	298.0	260.0	13/74

**TABLE 2: Three-monthly Rainfall
November 2013 to January 2014**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #73]

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?)
Funafuti	1239.6	927.2	1139.0	1026.9	60/81	36/29/35 [-1.0%]	Inconsistent
Nui	618.3	861.6	1118.9	993.0	13/68	40/31/29 [13.6%]	Consistent
Niulakita	856.4	811.7	1122.8	992.9	25/61	27/36/37 [4.1%]	Near Consistent
Nanumea	337.7	638.2	999.2	904.0	15/73	42/38/20 [23.7%]	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for November 2013 to January 2014 Outlooks (refer to OCOF #73): SOI Values (July-Sept) 2013

* 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
March to May 2014**

Predictors and Period used: SOI VALUES NOV13 – JAN14

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Funafuti	62%	790.5	38%		8.1%	64.2%
Nui	65%	705.0	35%		12.6%	66.2%
Niulakita	59%	831.8	41%		5.7%	63.9%
Nanumea	64%	774.1	36%		14.3%	60.3%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Funafuti	45%	677.95	29%	889.9	26%	6.9%	42.3%
Nui	47%	609.8	32%	829.4	21%	15.3%	48.5%
Niulakita	46%	681.0	30%	915.0	24%	13.4%	49.2%
Nanumea	49%	550.2	30%	880.6	21%	14.0%	45.2%

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
March to May 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Funafuti	15%	788	5%	1034	80%		
Nui	5%	707	7%	940	88%		
Nanumea	6%	756	9%	997	85%		

Summary Statements

Rainfall for January 2014:

Funafuti total rainfall for Jan is Above Normal

Nui total rainfall for Jan is Below Normal

Niulakita total rainfall for Jan is Normal

Nanumea total rainfall for Jan is Below Normal

Accumulated rainfall for November 2013 to January 2014, including outlook verification:

Funafuti is Above Normal Rainfall with verification Outlook of Inconsistent

Nui is Below Normal Rainfall with verification Outlook of Consistent

Niulakita is Normal with verification Outlook of near Consistent

Nanumea is Below Normal with verification outlook of Consistent

SCOPIIC Outlooks for March-May 2014:

1. Funafuti LEP 6.9% Moderate skills to predict Below Normal Rainfall
2. Nui LEP 15.3% High Skills to predict Below Normal Rainfall
3. Niulakita LEP 13.4% Good skills to predict Below Normal Rainfall
4. Nanumea LEP 14.0% Good skills to predict Below Normal Rainfall

2. POAMA:

1. Funafuti Above Normal rainfalls with Probabilities of 80%
2. Nui Above Normal rainfall with Probabilities of 88%
3. Nanumea Above Normal rainfall with Probabilities of 85%

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: $X \geq 35$