

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 83

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	July 2014						
	May 2014 Total	June 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Funafuti	139.7	160.0	210.0	188.6	273.9	220.7	36/82
Nanumea	93.0	97.1	88.0	138.0	216.5	171.4	12/73
Niulakita	81.5	197.0	114.1	167.2	254.7	208.0	10/62
Nui	76.2	66.3	149.1	165.0	234.1	200.2	19/69

**TABLE 2: Three-monthly Rainfall
May to July 2014**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #79]

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	509.7	606.7	778.2	701.7	18/82	27/39/34(21.9)	Near Consistent
Nanumea	278.1	484.6	704.7	608.3	7/73	28/38/34(15.8)	Near Consistent
Niulakita	392.6	538.0	703.9	610.1	7/62	33/34/33(-2.1)	Near Consistent
Nui	291.6	509.6	663.0	577.2	4/69	28/41/31(26.4)	Near Consistent

Period: *below normal/normal/above normal

Predictors and Period used for May to July 2014 Outlooks (refer to OCOF #79):

SOI Jan-Mar

* 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 September to November 2014

Predictors and Period used: NINO 3.4 2 months Jun-Jul

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS %	Hit-rate
Funafuti	45	728.7	55		6.8	62.5
Nanumea	35	480.8	65		41.5	76.2
Niulakita	50	716.0	50		-1.7	45.0
Nui	43	620.5	57		18.1	71.9

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Funafuti	24	620.6	38	826.5	38	11.3	48.4
Nanumea	17	353.6	44	602.8	39	33.2	60.3
Niulakita	34	612.1	33	877.4	33	2.2	8.3
Nui	24	514.0	38	734.4	38	17.7	51.6

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Funafuti	28	592	36	845	36		
Nui	24	530	36	637	40		
Nanumea	27	428	30	636	43		

Summary Statements

Rainfall for July 2014:

Normal for Funafuti Station and Below Normal for Nanumea, Nui and Niulakita Stations

Accumulated rainfall for May to July 2014, including outlook verification:

Below Normal for All stations with verification outlook of Near Consistent for all stations

Outlooks for September to November 2014:

1. SCOPIC:

The seasonal rainfall outlook for Funafuti and Nui show equal chance of Normal and above Normal. The seasonal rainfall outlook for Nanumea shows the most likely outcome is Normal with above Normal the next most likely. The seasonal rainfall outlook for Niulakita shows little guidance as the chance of Below Normal, Normal and Above Normal are similar

2. POAMA:

Funafuti equal chance of Normal to Above Normal

Nui & Nanumea most likely Above Normal

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: $X \geq 35$