

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 92

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	April 2015						
	February 2015 Total	March 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	111.6	331.4	111.3	197.1	270.3	229.4	5/74
Nui	142.2	453.9	227.8	152.9	268.6	198.8	41/73
Funafuti	429.4	323.8	351.7	184.9	295.7	235.1	64/83
Niulakita	175.0	604.5	210.5	167.0	254.0	210.7	32/63

**TABLE 2: Three-monthly Rainfall
February to April 2015**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #88]

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	554.3	618.2	992.0	830.3	22/74	22.0 20/34/41	Inconsistent
Nui	823.9	705.2	976.0	817.1	36/70	14.0 25/38/37	Near Consistent
Funafuti	1104.9	808.5	1045.8	927.1	81/83	6.0 26/37/37	Consistent
Niulakita	990	829.7	1010.9	923.5	38/63	-2.4 34/34/32	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for February to April 2015 Outlooks (refer to OCOF #88):

Nino 3.4 2 months Oct –Nov 2014

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
June to August 2015**

Predictors and Period used: Nino 3.4 2 months SST

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Funafuti	34.6	713.8	65.4		5.9	66.7
Nanumea	22.8	584.2	77.2		26.6	66.7
Niulakita	26.2	591.6	53.8		2.6	57.6
Nui	28.4	629.0	71.6		12.8	69.7

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Funafuti	9	582.4	53	814.8	38	6.8	54.5
Nanumea	13	426.7	35	696.0	52	15.5	42.4
Niulakita	30	533.3	30	737.3	40	-2.0	48.5
Nui	16	499.6	27	713.9	57	16.9	54.5

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Funafuti	12	699	54	802	33		
Nanumea	6	468	34	744	60		
Niulakita	21	466	66	733	13		
Nui	6	518	37	732	57		

Summary Statements

Rainfall for April 2015:

Nanumea, below normal rainfall

Nui Normal rainfall

Funafuti m above Normal rainfall

Niulakita normal rainfall

Accumulated rainfall for February to April 2015, including outlook verification:

Nanumea, below normal rainfall with verification outlook of inconsistent

Nui, normal rainfall with verification of near consistent

Funafuti, above normal rainfall consistent with the outlook

Niulakita, normal rainfall consistent with the outlook

Outlooks for June to August 2015:

1. SCOPIC:

Funafuti : Normal rainfall is the most likely outlook with above normal is the next likely. Confidence in the outlook is moderate

Nanumea: Above normal rainfall is the most likely outcome with normal the next, confidence in the outlook is high

Niulakita: The most likely outlook is above normal, confidence in the outlook is very low

Nui: Above normal rainfall is the most likely outcome with normal the next, confidence in the outlook is high.

2. POAMA:

Poama predict Above Normal for Nanumea and Nui

Normal for Funafuti and Niulakita

Overall prediction: 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: $X \geq 35$