Pacific Islands - Online Climate Outlook Forum (OCOF) No. 128

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	February 2018 Total	March 2018 Total	April 2018				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	645.1	246.4	42.0	197.3	272.5	229.4	2/78
Nui	370.9	179.4	106.8	152.9	268.6	200.1	10/73
Funafuti	644.3	93.0	151.1	185.9	300.2	237.5	19/86
Niulakita	245.7	246.7	176.7	167.8	262.6	218.4	25/66

TABLE 2: Three-monthly Rainfall
February to April 2018
[Please note that the data used in this verification should be sourced from table 3 of OCOF #124]

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	933.5	631.6	991.0	823.9	50/78	**57**/27/16 (37.2)	Near-consistent
Nui	657.1	705.2	976.0	820.6	20/73	**42**/32/26 (9.5)	Consistent
Funafuti	888.4	819.7	1045.8	928.1	34/86	**47**/20/33 (12.0)	Near-consistent
Niulakita	669.1	829.7	1014.3	924.0	11/66	31/33/**36** (-0.6)	Inconsistent

Period:*below normal/normal/above normal

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*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 2018

Predictors and Period used: NINO3.4 March-April 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Nanumea	73	606.9	27		23	71
Nui	68	637.5	32		19	69
Funafuti	68	716.6	32		18	66
Niulakita	58	602.2	42		3	65

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	67%ile rainfall (mm)	Above Normal (prob)	LEPS (%)	Hit-rate (%)
Nanumea	50	448.0	35	698.7	15	20	52
Nui	47	499.6	36	726.7	17	17	54
Funafuti	54	583.4	25	845.3	21	20	52
Niulakita	41	537.5	33	737.3	26	4	43

TABLE 4: Seasonal Climate Outlooks using POAMA2 for
June to August 2018

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	67%ile rainfall (mm)	Upper Tercile (prob)		
NANUMEA	**61**	468	24	744	15		
NUI	**61**	518	30	732	9		
FUNAFUTI	**64**	699	15	802	21		
NIULAKITA	**70**	466	5	733	25		

Summary Statements

Rainfall for April 2018:
Rainfall in April was **below normal** at Nanumea, Nui and Funafuti, while Niulakita recorded **normal** rainfall.

Accumulated rainfall for February to April 2018, including outlook verification:
Rainfall over the last three months was **normal** for Nanumea and Funafuti, while Nui and Niulakita recorded **below normal** rainfall in the last three months

The outlooks issued in January were **near-consistent** for Nanumea and Funafuti, **consistent** for Nui, while Niulakita's verification was **inconsistent**.

Outlooks for June to August 2018:
1. **SCOPIC:**
   The outlook for June to August 2018 for Tuvalu, shows **below-normal** is the most likely outcome, with **normal** rainfall the next most likely. **Above normal** rainfall is the least likely.

2. **POAMA:**
   The outlook favours below-normal throughout the country.

NB: The X LEPS score has been categorised as follows:

Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

Very High: 25 ≤X < 35   Exceptional: X ≥ 35