Pacific Islands - Online Climate Outlook Forum (OCOF) No. 118

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	April 2017 Total	May 2017 Total	June 2017				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Nanumea	206.4	311.9	247.6	143.3	206.9	170.4	58/77
Nui	413.6	403.5	158.4	147.5	217.2	173.7	27/72
Funafuti	611.0	276.4	180.4	164.2	265.4	216.6	35/85
Niulakita	573.7	125.5	342.6	144.4	256.3	196.8	52/65

TABLE 2: Three-monthly Rainfall
April to June 2017
[Please note that the data used in this verification should be sourced from table 3 of OCOF #114]

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	765.9	543	755	627	52/77	37/**40**/23 [21%]	Near-consistent
Nui	975.5	517	724	580	64/72	**37**/36/27 [6%]	Inconsistent
Funafuti	1067.8	617	789	702	76/85	36/**41**/23 [27%]	Near-consistent
Niulakita	1041.8	573	734	633	60/65	**36**/34/30 [6%]	Inconsistent

Period:*below normal/normal/above normal

Predictors and Period used for April 2017 to June 2017 Outlooks (refer to OCOF #114):
NINO3.4 (Jan-Feb 2017).

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* Forecast is <u>consistent</u> when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).
Forecast is <u>near-consistent</u> 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 <u>inconsistent</u> 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 August to October 2017

Predictors and Period used: NINO 3.4 (May-June 2017)

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Nanumea	19%	503	81%		24%	69%
Nui	14%	567	86%		25%	67%
Funafuti	17%	673	83%		25%	72%
Niulakita	39%	663	61%		2%	61%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	7%	344	23%	608	**70%**	26%	58%
Nui	7%	473	35%	704	**58%**	22%	57%
Funafuti	15%	597	26%	799	**59%**	15%	55%
Niulakita	29%	573	30%	829	**41%**	1%	20%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for

August to October 2017

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Nanumea	21	428	**61**	636	18		
Nui	15	530	**58**	637	27		
Funafuti	30	592	27	845	**43**		
Niulakita	21	490	9	799	**70**		

Summary Statements

Rainfall for June 2017:
Rainfall in June 2017 was **above normal** at Nanumea and Niulakita, while Nui and Funafuti received **normal** rainfall.

Accumulated rainfall for April to June 2017, including outlook verification:
Rainfall over the last three months was **above normal** at all stations.

The SCOPIC outlooks for the three months were **Near-consistent** for Nanumea and Funafuti stations, while **Inconsistent** for Nui and Niulakita stations.

Outlooks for August to October 2017:
1. **SCOPIC:**
    Above normal rainfall is the favoured or most likely outcome at all locations, with **normal** rainfall the next most likely

    Outlook confidence ranges from low to very high: Nanumea – very high outlook confidence, high outlook confidence for Nui, Funafuti with good outlook confidence while low confidence outlook for Niulakita.

2. **POAMA:**
    At Nanumea and Nui the outlook favours normal rainfall, while at Funafuti and Nuilakita the above-normal is the most likely or favoured outcome for the coming three months.

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