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

Country Name: Tuvalu

TABLE 1: Monthly Rainfall

				violitiny ita					
Station (include data period)			June 2017						
	April 2017 Total	May 2017 Total	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

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

^{*}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: $0 \le X < 5$ Moderate $5 \le X < 10$ Good: $10 \le X < 15$ High: $15 \le X < 25$

Very High: $25 \le X < 35$ Exceptional: $X \ge 35$