## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 113

**Country Name: Tuvalu** 

**TABLE 1: Monthly Rainfall** 

Station (include data period)			January 2017						
	November 2016 Total	December 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking		
Nanumea	102.7	256.2	157.9	254	415	341	18/77		
Nui	101.4	81.4	384.0	256	456	353	39/72		
Funafuti	283.5	232.1	334.6	305	482	410	34/85		
Niulakita	210.5	446.2	484.0	291	430	363	51/64		

# **TABLE 2: Three-monthly Rainfall November 2016 to January 2017**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #109]

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	516.8	631	1001	904	19/75	45/40/15	Consistent
						27%	
Nui	566.8	848	1114	987	8/69	39/29/32	Consistent
						2%	
Funafuti	850.2	931	1153	1048	18/84	38/25/37	Consistent
						0%	
Niulakita	1140.7	812	1122	992	43/61	22/36/42	Consistent
						13	

Period:\*below normal/normal/above normal

<u>Predictors and Period used for October to December 2016 Outlooks (refer to OCOF #109):</u> NINO3.4 for 1 or 2 months?

<sup>\*</sup>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 March to May 2017

**Predictors and Period used: ?** 

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
Nanumea	64	772	36	18	64
Nui	63	699	37	16	70
Funafuti	60	799	40	9	64
Niulakita	51	829	49	-0.2	53

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Nanumea	46	550	36	881	18	20%	54%
Nui	40	597	36	829	24	7%	51%
Funafuti	40	678	34	902	26	7%	47%
Niulakita	40	681	30	915	30	4%	25%

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2017

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)	

### **Summary Statements**

#### **Rainfall for January 2017:**

Rainfall in January was **below-normal** at Nanumea, **normal** at Nui and Funafuti, while Niulakita received **above-normal**.

#### Accumulated rainfall for November 2016 to January 2017, including outlook verification:

Rainfall over the last three months was **below-normal** at all stations except Niulakita which observed **above-normal**. The outlooks were **consistent** with the observed rainfall.

#### **Outlooks for March to May 2017:**

#### 1. SCOPIC:

At Nanumea, Nui and Funafuti, **below-normal** rainfall is the most likely, with **normal** rainfall the next most likely. Outlook confidence is **good** at Nanumea and **moderate** at Nui and Funafuti.

The outlook for Niulakita, shows **below-normal** rainfall is the most likely, with similar chances of **normal** or **above-normal** rainfall the next most likely.

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

 $Very \ Low: \ X < 0.0 \qquad \qquad Low: \ 0 \le X < 5 \qquad \qquad Moderate \ 5 \le X < 10 \qquad \qquad Good: \ 10 \le X < 15 \qquad High: \ 15 \le X < 25 \qquad \qquad Low: \ 0 \le X < 10 \qquad \qquad Good: \ 10 \le X < 10 \qquad \qquad Good: \ 10 \le X < 10 \qquad Good: \ 1$ 

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