Pacific Islands - Online Climate Outlook Forum (OCOF) No. 136

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2018	Nov-2018	Dec-2018				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2018)	168.5	231.3	416.2	210.6	351.0	296.4	59/77
Nui (1946-2018)	351.0	299.8	272.3	265.9	420.1	313.5	25/71
Funafuti (1933-2018)	273.3	314.5	228.3	312.0	435.1	355.9	11/86
Niulakita (1953-2018)	186.1	300.7	614.7	233.7	348.0	290.3	**64/65**

TABLE 2: Three-month Rainfall for October to December 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 July-August 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2018)	816.0	Above normal	538.3	755.0	647.4	55/76	19	36	45	33	Consistent
Nui (1946-2018)	923.1	Above normal	710.9	919.5	822.1	49/71	24	38	38	7	Near-consistent
Funafuti (1933-2018)	816.1	Normal	810.0	1008.4	902.2	31/86	30	34	36	-1	Near-consistent
Niulakita (1953-2018)	1101.5	Above normal	731.7	952.5	827.0	51/64	34	35	31	-1	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2019
Predictor and Period used: NINO3.4 for October to November 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2018)	26	827.1	74		18	62
Nui (1946-2018)	39	817.1	61		3	57
Funafuti (1933-2018)	29	928.1	71		17	68
Niulakita (1953-2018)	58	923.5	42		1	55

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2018)	2	639.3	41	992.0	57	35	57
Nui (1946-2018)	19	687.8	35	979.9	46	9	47
Funafuti (1933-2018)	11	799.2	52	1047.7	37	12	53
Niulakita (1953-2018)	36	806.8	35	1013.8	29	-1	33

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	9	810.0	36	1106.0	55
Nui	6	798.0	42	1126.0	52
Funafuti	18	907.0	21	1086.0	61
Niulakita	30	878.0	15	1076.0	55

Summary Statements

Rainfall for December 2018:

Above normal at Nanumea and Niulakita. **Normal** rainfall was recorded at Nui, while Funafuti recorded **below normal** rainfall.

Accumulated rainfall for October to December 2018, including outlook verification:

Rainfall over the last three months was **above normal** at Nanumea, Nui and Niulakita. **Normal** rainfall was recorded at Funafuti.

The SCOPIC outlooks for the last three months were **Consistent** at Nanumea and **Near-consistent** at remaining sites.

Outlooks for February to April 2019:

1. **SCOPIC:**
   The Nanumea outlook shows **above normal** is favoured, with normal rainfall the next most likely.

   The outlooks for Nui shows **above normal** as the most likely outcome, with **normal** the next most likely. Below **normal** is the least likely.

   Funafuti's outlook favours normal rainfall, while there is little guidance for Niulakita as the chances of below normal, normal and above normal rainfall are similar.

   Outlook confidence ranges from Exceptional to very low. There is exceptional outlook confidence at Nanumea. Moderate outlook confidence at Nui, good confidence outlook while very low confidence outlook at Niulakita

2. **POAMA:**
   The outlook favours above normal rainfall at all sites.

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Country	Date: November 2018	Stakeholder	Total Number of Participants	Number of male	Number of female

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