

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 138

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2018	Jan-2019	Feb-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2019)	416.2	350.0	630.0	163.4	311.5	263.0	74/79
Nui (1946-2019)	272.3	369.6	566.0	226.1	335.3	278.9	67/74
Funafuti (1933-2019)	228.3	403.8	668.7	267.3	425.1	347.8	82/87
Niulakita (1953-2019)	614.7	671.1	963.5	257.6	378.3	317.6	67/67

TABLE 2: Three-month Rainfall for December 2018 to February 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 September-October 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2019)	1396.2	Above normal	756.0	1128.4	966.9	68/77	10	25	65	35	Consistent
Nui (1946-2019)	1207.9	Above normal	842.7	1175.0	1063.2	56/73	22	40	38	37	Near-consistent
Funafuti (1933-2019)	1300.8	Above normal	995.9	1241.8	1133.9	64/86	27	40	33	-1	Near-consistent
Niulakita (1953-2019)	2249.3	Above normal	875.8	1159.4	1012.0	64/64	43	38	19	6	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2019**Predictor and Period used: NINO3.4 for January to February 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	23	625.7	77		30	73
Nui (1946-2019)	30	580.2	70		19	71
Funafuti (1933-2019)	30	701.8	70		19	73
Niulakita (1953-2019)	42	647.4	58		2	56

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 (1941-2019)	17	531.0	29	754.1	54	20	58
Nui (1946-2019)	26	513.9	30	724.0	44	6	54
Funafuti (1933-2019)	11	616.7	34	791.2	55	28	62
Niulakita (1953-2019)	23	573.4	36	751.3	41	6	41

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	6	626.0	55	891.0	39
Nui	6	559.0	52	809.0	42
Funafuti	27	638.0	30	829.0	43
Niulakita	58	565.0	18	648.0	24

Summary Statements

Rainfall for February 2019:

Above normal was recorded at all stations. Niulakita recorded the highest February rainfall on record.

Accumulated rainfall for December 2018 to February 2019, including outlook verification:

Rainfall over the last three months was **above normal** at all stations.

The SCOPIC outlooks for the last three months were **consistent** at Nanumea, **near-consistent** at Nui and Funafuti, while Niulakita's outlook was **inconsistent**.

Outlooks for April to June 2019:

1. SCOPIC:

The outlook for Nanumea and Funafuti favours **above normal** rainfall.

For Nui and Niulakita, the outlook shows **above normal** as the most likely outcome, with **normal** the next most likely. **Below normal** is the least likely.

2. POAMA:

The outlook for Nanumea and Nui favours **normal** rainfall while **below normal** is favoured for Niulakita.

For Funafuti, the outlook shows **above normal** as the most likely outcome, with **normal** the next most likely. **Below normal** is the least likely.

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

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

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

Country	Date: February 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
	Climate Bulletin				
	EAR Watch				
	Monthly Climate Briefing				
	Ocean Bulletin				