

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 139

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2019	Feb-2019	Mar-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2019)	350.0	630.0	226.9	181.2	304.6	249.4	36/79
Nui (1946-2019)	369.6	566.0	117.4	232.4	339.9	263.9	5/74
Funafuti (1933-2019)	403.8	668.7	68.5	272.1	368.1	317.4	1/87
Niulakita (1953-2019)	671.1	963.5	188.3	260.8	391.8	308.5	12/67

TABLE 2: Three-month Rainfall for January to March 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 October-November 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2019)	1206.9	Above normal	724.6	1078.1	939.3	61/79	6	23	71	34	Consistent
Nui (1946-2019)	1053.0	Normal	845.8	1091.7	982.5	43/74	23	31	46	5	Near-consistent
Funafuti (1933-2019)	1141.0	Normal	952.2	1176.0	1069.9	52/87	22	34	44	5	Near-consistent
Niulakita (1953-2019)	1822.9	Above normal	947.4	1148.6	1057.0	65/66	34	41	25	0	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2019

Predictor and Period used: NINO3.4 for February to March 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	20	607.2	80		21	68
Nui (1946-2019)	22	576.0	78		20	73
Funafuti (1933-2019)	13	699.0	87		33	74
Niulakita (1953-2019)	37	631.2	63		4	62

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)	8	476.7	35	707.9	57	21	55
Nui (1946-2019)	6	504.7	23	675.9	71	30	57
Funafuti (1933-2019)	5	615.2	24	781.9	71	30	65
Niulakita (1953-2019)	25	543.3	30	757.3	45	2	41

TABLE 4: Seasonal Climate Outlooks using POAMA2 for May to July 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	18	558.0	30	767.0	52
Nui	5	576.0	47	753.0	48
Funafuti	33	699.0	24	808.0	43
Niulakita	61	536.0	21	668.0	18

Summary Statements

Rainfall for March 2019:

Below normal was recorded at all stations except at Nanumea which received **normal** rainfall. Funafuti recorded the **lowest** March rainfall on record while Nui recorded its fifth-driest March on record

Accumulated rainfall for January to March 2019, including outlook verification:

Rainfall over the last three months was **above normal** at Nanumea and Niulakita, while Nui and Funafuti recorded **normal** rainfall. Niulakita recorded its second-wettest January to March on record.

The SCOPIC outlooks for the last three months were near-consistent at all stations except at Nanumea which was consistent.

Outlooks for May to July 2019:

1. SCOPIC:

The outlook for Nanumea, Nui and Funafuti favours **above normal** rainfall

For Niulakita, 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 Niulakita favours above- and below-normal rainfall respectively.

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

For Nui, the outlook shows a near-equal likelihood of **above normal** and **normal** rainfall. **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

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