

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 140

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2019	Mar-2019	Apr-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2019)	630.0	226.9	318.8	191.3	271.4	228.7	62/79
Nui (1946-2019)	566.0	117.4	661.6	149.9	267.2	198.8	74/74
Funafuti (1933-2019)	668.7	68.5	402.5	185.2	299.2	237.1	75/87
Niulakita (1953-2019)	963.5	188.3	235.9	167.9	260.2	215.9	40/67

TABLE 2: Three-month Rainfall for February to April 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 November-December 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2019)	1175.7	Above normal	639.3	992.0	827.1	69/79	2	41	57	35	Consistent
Nui (1946-2019)	1345.0	Above normal	687.8	979.9	817.1	67/74	19	35	46	9	Consistent
Funafuti (1933-2019)	1139.7	Above normal	799.2	1047.7	928.1	67/87	11	52	37	12	Near-consistent
Niulakita (1953-2019)	1387.7	Above normal	806.8	1013.8	923.5	65/67	36	35	29	-1	Inconsistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	14	593.0	86		23	71
Nui (1946-2019)	16	646.0	84		18	68
Funafuti (1933-2019)	20	719.4	80		17	65
Niulakita (1953-2019)	36	608.6	64		2	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)	6	440.7	29	698.0	65	21	52
Nui (1946-2019)	9	506.3	26	726.0	65	17	54
Funafuti (1933-2019)	6	584.3	38	835.1	56	19	51
Niulakita (1953-2019)	19	537.9	38	738.0	43	3	42

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	36	468.0	6	744.0	58
Nui	42	518.0	6	732.0	52
Funafuti	39	699.0	15	802.0	46
Niulakita	33	466.0	12	733.0	55

Summary Statements

Rainfall for April 2019:

Rainfall was **above normal** at all met stations except at Niulakita which received **normal** rainfall. Niu recorded its highest April rainfall on record.

Accumulated rainfall for February to April 2019, including outlook verification:

Rainfall over the last three months was **above normal** at all met stations. Niu recorded its eighth-highest rainfall while Niulakita recorded the third-highest rainfall for the February to April period.

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

Outlooks for June to August 2019:

1. SCOPIC:

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

Niulakita's 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, Nui and Niulakita favours **above normal**.

Funafuti's outlook shows **above normal** as the most likely outcome, with **below normal** the next most likely. **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: April 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		All Government Civil Servants (Including all departments)/ Tuvalu Red Cross/Tuvalu Media.			
EAR Watch		All Government Civil Servants (Including all departments)/ Tuvalu Red Cross/Tuvalu Media.			
Monthly Climate Briefing		All Government Civil Servants (Including all departments)/ Tuvalu Red Cross/Tuvalu Media.			
Ocean Bulletin		All Government Civil Servants (Including all departments)/ Tuvalu Red Cross/Tuvalu Media.			
Total					