

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 141

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2019	Apr-2019	May-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2019)	226.9	318.8	408.4	131.0	255.1	203.5	76/79
Nui (1946-2019)	117.4	661.6	218.2	150.6	213.4	185.4	51/74
Funafuti (1933-2019)	68.5	402.5	391.2	197.8	262.9	216.6	81/87
Niulakita (1953-2019)	188.3	235.9	634.4	177.2	249.0	209.5	67/ 67

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 December 18-January 19				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2019)	954.1	Above normal	550.0	880.5	768.7	59/79	11	35	54	22	Consistent
Nui (1946-2019)	997.2	Above normal	590.8	830.6	698.5	60/74	23	32	45	8	Consistent
Funafuti (1933-2019)	862.2	Normal	674.5	906.5	791.2	55/87	20	35	45	9	Near- consistent
Niulakita (1953-2019)	1058.6	Above normal	701.5	913.1	828.6	58/67	21	40	39	4	Near- consistent

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

Predictor and Period used: NINO3.4 for April to May 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	17	514.5	83		23	71
Nui (1946-2019)	14	610.0	86		23	68
Funafuti (1933-2019)	19	702.1	81		19	67
Niulakita (1953-2019)	38	612.3	62		2	64

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)	7	403.5	25	626.9	68	22	48
Nui (1946-2019)	5	519.8	34	688.4	61	21	46
Funafuti (1933-2019)	8	591.3	27	784.2	65	19	49
Niulakita (1953-2019)	22	514.2	40	716.2	38	8	46

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	43	405.0	27	705.0	30
Nui	46	533.0	24	729.0	30
Funafuti	33	671.0	12	859.0	55
Niulakita	18	492.0	12	709.0	70

Summary Statements

Rainfall for May 2019:

All stations recorded above normal rainfall during May. Niulakita recorded its highest May rainfall on record, Nanumea its fourth highest, and Funafuti its seventh-highest total for May.

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

During the last three months, only Funafuti recorded normal rainfall while the other three stations recorded above normal rainfall. The outlooks issued in February for March to May were consistent for Nanumea and Nui, and Near-consistent for Funafuti and Niulakita.

Outlooks for July to September 2019:

1. SCOPIC:

The outlook for season Favours above normal rainfall for Nanumea, Niu and Funafuti. For Niulakita, the outlook for season shows a near-equal likelihood of normal and above normal rainfall; below normal rainfall is the least likely. The skills range from moderate to high.

2. POAMA:

The outlook for season favours above normal rainfall for Funafuti and Niulakita.

The outlook for Nanumea and Niu shows below normal as the most likely outcome, with above 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: May 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin					
Total					