

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 145

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2019	Aug-2019	Sep-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2019)	71.5	253.4	144.6	94.9	175.1	139.4	43/78
Nui (1946-2019)	161.5	410.9	273.9	128.7	199.4	178.9	63/74
Funafuti (1933-2019)	93.0	327.3	409.3	163.1	247.8	199.8	81/87
Niulakita (1953-2019)	192.5	444.3	221.4	169.1	231.3	192.0	42/67

TABLE 2: Three-month Rainfall for July to September 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 April-May 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2019)	469.5	Normal	403.5	626.9	514.5	35/78	7	25	68	22	Near-consistent
Nui (1946-2019)	846.3	Above normal	519.8	688.4	610.0	62/74	5	34	61	21	Consistent
Funafuti (1933-2019)	829.6	Above normal	591.3	784.2	702.1	60/87	8	27	65	19	Consistent
Niulakita (1953-2019)	858.2	Above normal	514.2	716.2	612.3	57/67	22	40	38	8	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2019 to January 2020
Predictor and Period used: NINO3.4 for August to September 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	43	892.2	57		32	77
Nui (1946-2019)	48	961.6	52		2	60
Funafuti (1933-2019)	50	1026.9	50		-2	38
Niulakita (1953-2019)	54	1020.0	46		7	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)	25	631.2	40	997.3	35	28	59
Nui (1946-2019)	29	831.3	35	1104.0	36	5	42
Funafuti (1933-2019)	32	931.2	35	1139.0	33	0	45
Niulakita (1953-2019)	36	829.5	37	1135.6	27	12	48

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2019 to January 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	61	794.0	30	1155.0	9
Nui	67	673.0	24	1119.0	9
Funafuti	61	897.0	21	1017.0	18
Niulakita	30	712.0	15	1114.0	55

Summary Statements

Rainfall for September 2019:

Normal rainfall was collected at Nanumea and Niulakita, while Nui and Funafuti collected above normal rainfall.

Accumulated rainfall for July to September 2019, including outlook verification:

Normal rainfall was collected at Nanumea with verification of near-consistent. Above normal fell across the remainder of the country, with verification of consistent for Nui and Funafuti, and near- consistent at Niulakita.

Outlooks for November 2019 to January 2020:

1. SCOPIC:

The outlook offers normal rainfall as the most likelihood at Nanumea, above normal as the next likelihood and below normal as the least likelihood for the next three months.

The outlook for Niulakita offers near-equal chances of normal and below normal rainfall, with above normal as the least likely.

For Nui and Funafuti, the outlook offers little guidance as the chances of below normal, normal and above normal rainfall are similar.

Confidence scores range from very high at Nanumea to very low at Nui.

2. POAMA:

The POAMA prediction favours below normal rainfall for Nanumea, Nui and Funafuti, and above normal rainfall for Niulakita for the upcoming season.

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: September 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		None has been distributed			
EAR Watch		None has been Distributed			
Monthly Climate Briefing		None has been Distributed			
Ocean Bulletin		None has been Distributed			
Total					