# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 147

**Country: Tuvalu** 

**TABLE 1: Monthly Rainfall** 

	Sep-	Oct-2019			Nov-2019		
Station (include data period)	2019		Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				Nalik
Nanumea (1941-2019)	144.6	183.7	43.1	115.1	205.0	155.4	9 of 78
Nui (1946-2019)	273.9	146.5	133.5	198.1	273.0	235.2	11 of 74
Funafuti (1933-2019)	409.3	142.7	330.1	211.8	308.7	250.0	63 of 87
Niulakita (1953-2019)	221.4	58.3	313.6	214.0	320.1	277.0	41 of 66

**TABLE 2: Three-month Rainfall for September to November 2019** 

Station	Three-ı	month Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 June-July 2019			Verification: Consistent, Near-consistent,	
		Rai	Rainfall (mm)				B-N	N	A-N	LEPS	Inconsistent?
Nanumea (1941-2019)	371.4	Normal	334.4	577.7	472.4	30 of 78	5	30	65	34	Near-consistent
Nui (1946-2019)	553.9	Normal	492.0	738.3	620.0	32 of 74	13	32	55	19	Near-consistent
Funafuti (1933-2019)	882.1	Above normal	626.1	834.9	737.2	63 of 87	16	35	49	12	Consistent
Niulakita (1953-2019)	593.3	Below normal	608.2	842.7	720.0	19 of 66	33	35	32	-2	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	21	942.7	79	42	75
Nui (1946-2019)	36	983.2	64	14	73
Funafuti (1933-2019)	39	1070.3	61	8	61
Niulakita (1953-2019)	56	1080.2	44	3	61

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)	12	733.5	35	1081.9	53	34	58
Nui (1946-2019)	26	846.7	33	1087.1	41	5	49
Funafuti (1933-2019)	24	981.7	37	1172.5	39	6	46
Niulakita (1953-2019)	36	950.2	36	1166.3	28	1	39

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	18	796.0	30	1148.0	52
Nui	9	917.0	58	1162.0	33
Funafuti	27	1022.0	18	1201.0	55
Niulakita	24	966.0	18	1189.0	58

# **Summary Statements**

### Rainfall for November 2019:

Below normal rainfall was collected at Nanumea and Nui, normal rainfall was collected at Niulakita with above normal rainfall at Funafuti.

## Accumulated rainfall for September to November 2019, including outlook verification:

Normal rainfall was collected at Nanumea and Nui with an outlook verification of near-consistent. Above normal rainfall was observed at Funafuti, with consistent outlook verification. Niulkita recorded below normal rainfall, with near-consistent outlook verification.

# Outlooks for January to March 2020:

### 1. SCOPIC:

The outlook for the season at Nanumea, favours above normal rainfall.

For Nui, the outlook shows above normal rainfall as the most likely outcome for the season, with normal rainfall is the next most likely. Below normal rainfall is the least likely outcome.

The outlook for Funafuti shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.

The outlook for the season at Niulakita offers little guidance as the chance of below normal, normal and above normal rainfall are similar.

The outlook verification ranges from very high skills at Nanumea, moderate skills at Nui and Funafuti, with very low skills at Niulakita.

## 2. POAMA:

The outlook for the season at Nanumea, Funafuti and Niulakita favours above normal rainfall while at Nui, the outlook favours normal rainfall.

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

 $Very \ Low: \ X < 0.0 \\ Low: \ 0 \le X < 5 \\ Moderate \ 5 \le X < 10 \\ Good: \ 10 \le X < 15 \\ High: \ 15 \le X < 25 \\ High: \ 4 \le X < 10 \\ H$ 

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

Product	Date: November 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		Governments civil servants, including departments, Tuvalu Red Cross and Media	All civil servants and NGOs		
EAR Watch					
Monthly Climate Briefing		Governments civil servants, including departments, Tuvalu Red Cross and Media	All civil servants and NGOs		
Ocean Bulletin		Governments civil servants, including departments, Tuvalu Red Cross and Media	All civil servants and NGOs		
		Total			