

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 142

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2019	May-2019	Jun-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2019)	318.8	408.4	176.4	131.2	225.6	169.0	41/79
Nui (1946-2019)	661.6	218.2	331.9	145.3	221.3	170.6	68/74
Funafuti (1933-2019)	402.5	391.2	225.3	162.4	245.6	194.7	50/87
Niulakita (1953-2019)	235.9	634.4	141.8	145.9	262.9	197.0	22/67

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2019)	903.6	Above normal	531.0	754.1	625.7	63/78	17	29	54	20	Consistent
Nui (1946-2019)	1211.7	Above normal	513.9	724.0	580.2	74/74	26	30	44	6	Consistent
Funafuti (1933-2019)	1019.0	Above normal	616.7	791.2	701.8	77/87	11	34	55	28	Consistent
Niulakita (1953-2019)	1012.1	Above normal	573.4	751.3	647.4	60/67	23	36	41	6	Consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2019)	17	503.0	83		23	68
Nui (1946-2019)	13	567.4	87		30	68
Funafuti (1933-2019)	18	673.0	82		22	70
Niulakita (1953-2019)	38	683.6	62		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	334.1	23	614.8	71	35	61
Nui (1946-2019)	5	485.5	41	695.9	54	25	57
Funafuti (1933-2019)	13	604.5	22	773.7	65	18	51
Niulakita (1953-2019)	27	579.3	34	831.8	39	1	42

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Nanumea	37	428.0	30	636.0	33
Nui	33	530.0	37	637.0	30
Funafuti	36	592.0	21	845.0	43
Niulakita	15	490.0	9	799.0	76

Summary Statements

Rainfall for June 2019:

Nanumea and Funafuti recorded normal rainfall, while Nui recorded above normal rainfall, and Niulakita recorded below normal rainfall.

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

All four stations recorded above normal rainfall with consistent in verification. Nui recorded the highest for the season in 74 years of record.

Outlooks for August to October 2019:

1. SCOPIC:

The outlook for season August to October 2019 for Nanumea, Nui and Funafuti favours above normal rainfall, with normal rainfall is the next most likely. Below normal rainfall is the least likely.

At Niulakita the outlook shows above normal rainfall as the most likely outcome, with normal the next most likely; below normal rainfall is the least likely. The skills for this season range from high to very high for central island (Nui) to northern island (Nanumea), and high to low for southern islands (Funafuti and Niulakita)

2. POAMA:

For Funafuti and Niulakita, the outlook shows above normal rainfall as the favoured or the most likely outcome, with below normal is the next likely outcome; normal rainfall is the least likely.

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

Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Country TUVALU	Date: JUNE 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		
EAR Watch		Governments civil servants, including all departments, Tuvalu Red Cross and Media	All civil servants		
Monthly Climate Briefing		Governments civil servants, including all departments, Tuvalu Red Cross and Media	All civil servants		
Ocean		Governments civil servants, including all departments, Tuvalu Red Cross and Media	All civil servants		

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: $X \geq 35$