

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 151

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2020	Feb-2020	Mar-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2020)	432.7	788.3	398.3	182.6	299.4	247.3	61/80
Nui (1946-2020)	394.0	565.0	229.0	224.8	339.7	262.8	26/75
Funafuti (1933-2020)	553.3	644.5	130.7	270.6	367.9	317.0	7/88
Niulakita (1953-2020)	576.1	662.7	193.4	264.2	392.9	316.3	12/68

TABLE 2: Three-month Rainfall for January to March 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 October-November 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2020)	1619.3	Above normal	733.5	1081.9	942.7	78/80	12	35	53	34	Consistent
Nui (1946-2020)	1188.0	Above normal	846.7	1087.1	983.2	57/75	26	33	41	5	Consistent
Funafuti (1933-2020)	1328.5	Above normal	981.7	1172.5	1070.3	76/88	24	37	39	6	Consistent
Niulakita (1953-2020)	1432.2	Above normal	950.2	1166.3	1080.2	59/68	36	36	28	1	Near-consistent

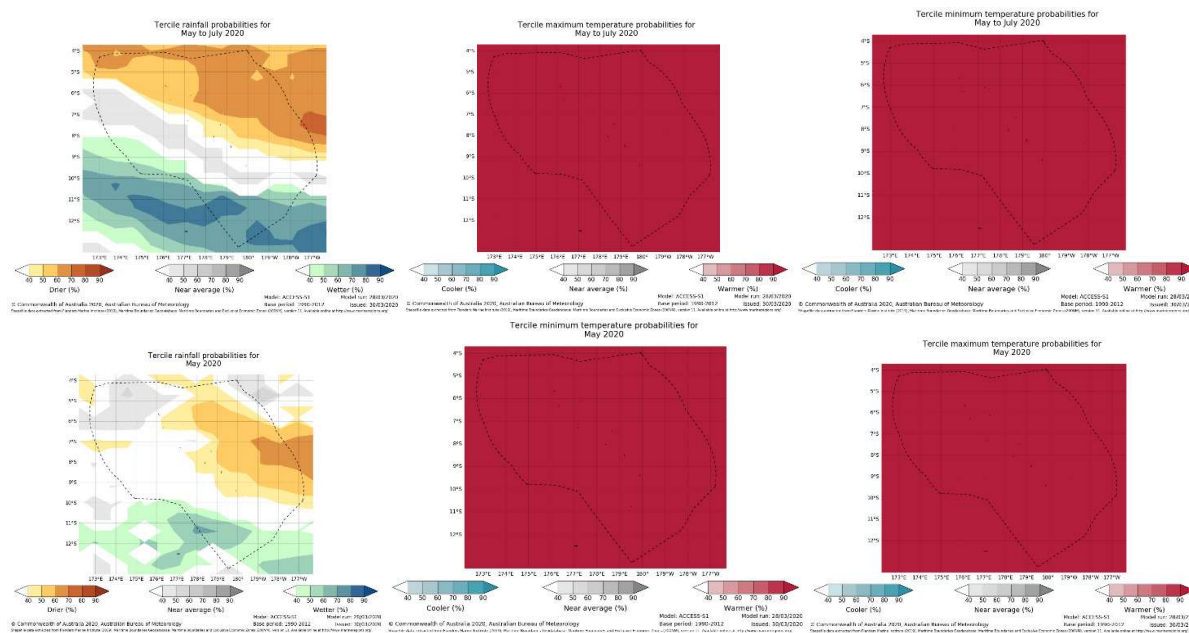
TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2020

Predictor and Period used: NINO3.4 for February to March 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2020)	32	570.8	68		21	67
Nui (1946-2020)	33	578.6	67		21	70
Funafuti (1933-2020)	26	696.6	74		32	73
Niulakita (1953-2020)	42	645.2	58		4	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 (1941-2020)	15	444.2	38	713.5	47	20	54
Nui (1946-2020)	13	519.4	36	706.1	51	32	61
Funafuti (1933-2020)	14	622.0	36	751.1	50	29	61
Niulakita (1953-2020)	29	546.0	31	775.9	40	3	43

Monthly and Seasonal Climate Outlooks using ACCESS-S for May to July 2020



Summary Statements

Rainfall for March 2020:

Above normal rainfall was collected at Nanumea with normal rainfall collected at Nui. Rainfall was below normal at Funafuti and Niulakita stations in the southern part of the Group.

Accumulated rainfall for January to March 2020, including outlook verification:

Rainfall collected during the season was above normal rainfall for all stations. The outlook issued in December was verified as Consistent at Nanumea, Nui and Funafuti, and Near-consistent for Niulakita.

Outlooks for May to July 2020:

1. SCOPIC:

The outlook for the season across Tuvalu shows above normal rainfall as the most likely outcome, with normal rainfall as the next most likely outcome. Below normal rainfall as the least likely outcome. Confidence of the model range from Very high to low.

2. ACCESS-S:

Seasonal rainfall:

Nanumea: 50-60% chance of a drier than average season.

Niulakita: 50-60% chance of a wetter than average season.

Nui and Funafuti: Little guidance as the chances of drier than average, near average or wetter than average are similar.

Seasonal temperatures:

Above average **minimum** and **maximum** temperatures are favoured strongly across the country.

Monthly rainfall:

Funafuti: 40-50% chance of drier than average.

Niulakita: 40-50% chance of wetter than average.

Nanumea and Nui: Little guidance as the chances of drier than average, near average or wetter than average are similar.

Monthly temperatures:

Above average **minimum** and **maximum** temperatures are favoured strongly across the country.

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: March 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin					
Total					