

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 165

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2021	Apr-2021	May-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2021)	108.6	255.9	151.9	154.2	257.0	205.8	26/81
Nui (1946-2021)	151.9	272.9	131.1	148.6	231.9	185.4	22/76
Funafuti (1933-2021)	192.5	397.0	77.3	194.1	249.0	220.4	5/89
Niulakita (1953-2021)	148.3	329.3	74.3	176.6	214.9	209.5	4/69

TABLE 2: Three-month Rainfall for March to May 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 Dec 2020-Jan 2021				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2021)	516.4	Below normal	554.4	880.5	772.2	23/81	53	35	12	22	Consistent
Nui (1946-2021)	555.9	Below normal	584.3	838.4	698.5	25/76	43	36	21	7	Consistent
Funafuti (1933-2021)	666.8	Below normal	671.1	896.9	791.2	29/89	46	32	22	8	Consistent
Niulakita (1953-2021)	551.9	Below normal	691.3	919.3	832.1	12/69	45	25	30	3	Consistent

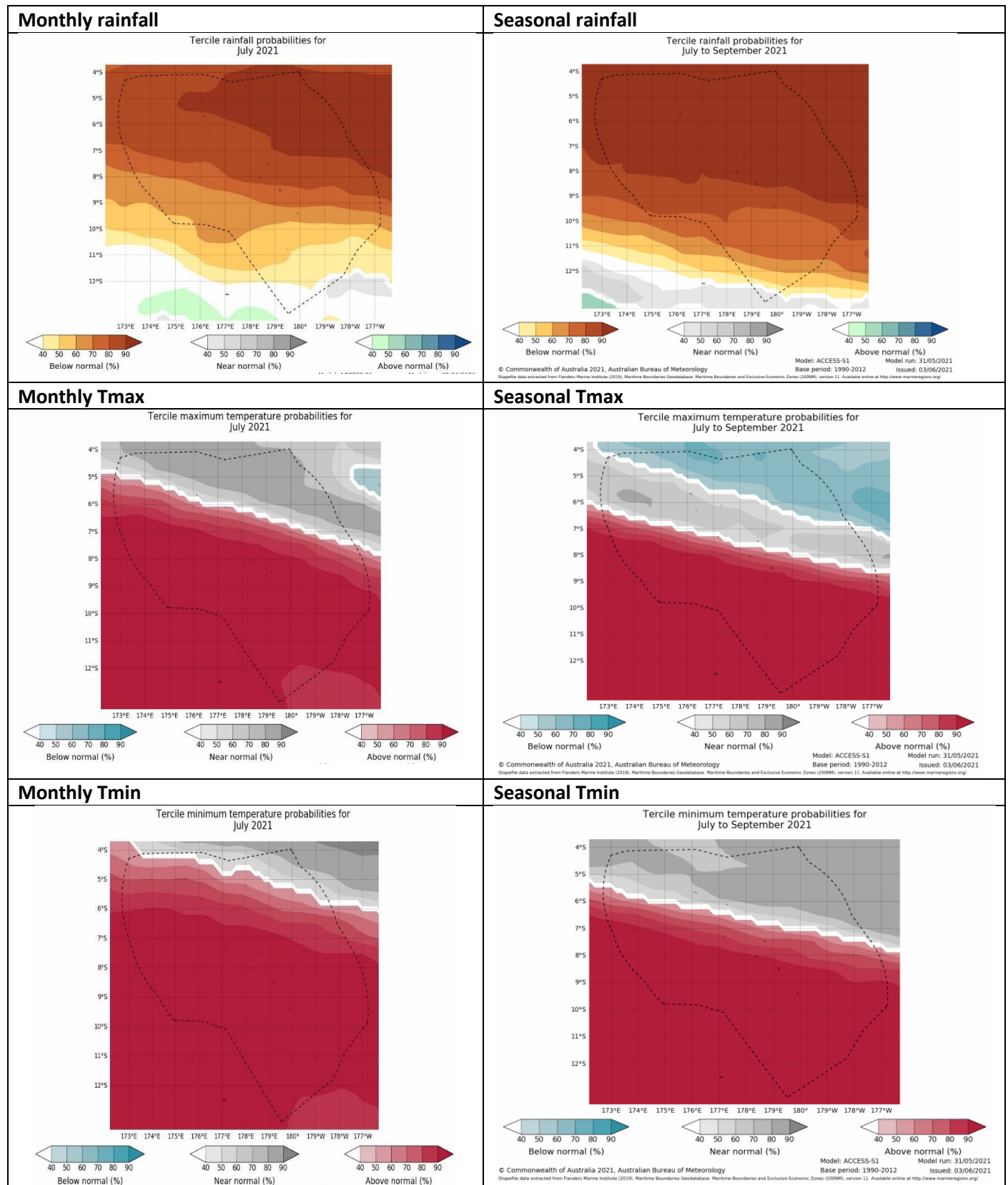
TABLE 3: Seasonal Climate Outlooks using SCOPIC for July to September 2021

Predictor and Period used: NINO3.4 for April to May 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2021)	69	513.3	31		20	69
Nui (1946-2021)	73	611.0	27		28	70
Funafuti (1933-2021)	67	710.6	33		22	69
Niulakita (1953-2021)	57	619.8	43		3	66

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 (1941-2021)	47	405.0	36	623.0	17	19	51
Nui (1946-2021)	47	528.3	31	691.9	22	20	52
Funafuti (1933-2021)	46	594.8	36	813.1	18	18	53
Niulakita (1953-2021)	39	520.5	29	719.5	32	1	53

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for July to September 2021



Summary Statements

Rainfall for May 2021: Rainfall was below normal rainfall across Tuvalu. Niulakita and Funafuti had their fourth and fifth driest May on record, respectively.

Accumulated rainfall for March to May 2021, including outlook verification: All stations recorded below normal rainfall with the outlook issued in January verified as consistent throughout.

Outlooks for July to September 2021:

1. **SCOPIC:** The outlook for the season at Nanumea, Nui and Funafuti shows below normal rainfall as the most likely outcome, with normal as the next most likely. Above normal is the least likely. The outlook offers little guidance for Niulakita as the chances of above normal, normal and below normal rainfall are similar.

2. **ACCESS-S:**

Monthly and Seasonal rainfall: The rainfall outlook favours below normal rainfall across Tuvalu for **July** and for **July to September**.

Monthly/Seasonal maximum temperature: The outlook for maximum temperature favours near-normal at Nanumea for both July and July to September, while above normal temperatures are favoured at Nui, Funafuti and Niulakita.

Monthly minimum temperature: The outlook for June minimum temperature favours above normal at all stations.

Seasonal minimum temperature: The outlook for the season favours above normal minimum temperature at all stations except for Nanumea where near-normal is favoured.

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: April 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		Met staffs Disaster Members All civil servants and kaupule members	6 9	5 6	1 3
EAR Watch		Met staffs Disaster Members All civil servants and kaupule members	6 9	5 5	1 4
Monthly Climate Briefing		Met staffs Disaster Members All civil servants and kaupule members	6 9	5 5	1 4
Ocean Bulletin		Met staffs Disaster Members All civil servants and kaupule members	6 9	5 4	1 5
Total			60	40	20