

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 164

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2021	Mar-2021	Apr-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total	Total	Rainfall (mm)				
	(mm)	(mm)					
Nanumea (1941-2021)	299.4	108.6	255.9	197.3	272.5	229.7	51/81
Nui (1946-2021)	320.8	151.9	272.9	152.9	268.6	201.4	52/76
Funafuti (1933-2021)	634.4	192.5	397.0	185.7	300.2	238.2	75/89
Niulakita (1953-2021)	842.4	148.3	329.3	167.8	256.9	215.9	57/69

TABLE 2: Three-month Rainfall for February to April 2021

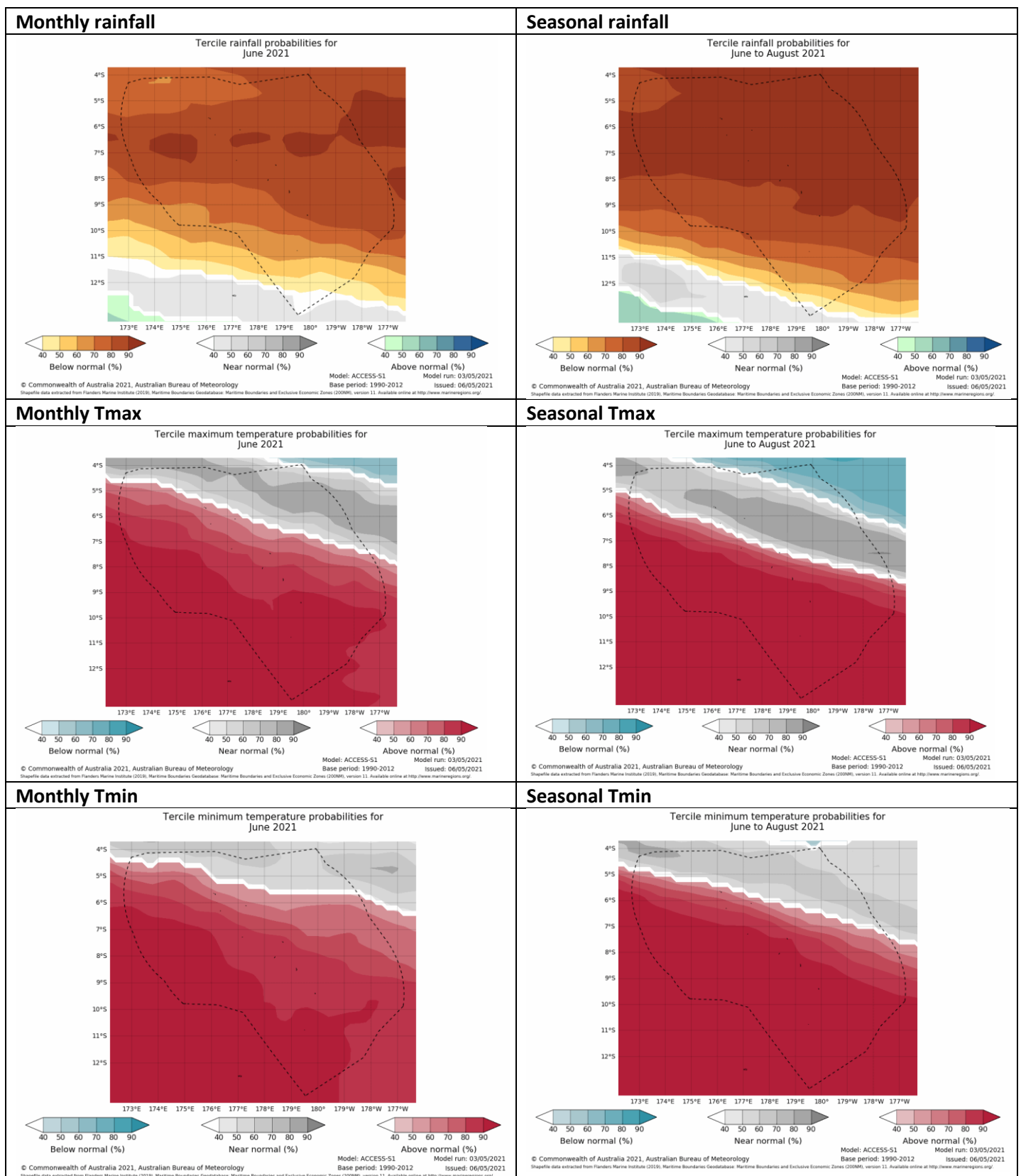
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2021)	663.9	Normal	640.8	1002.0	823.9	30/81	76	17	7	37	Near-consistent
Nui (1946-2021)	745.6	Normal	698.3	983.3	825.5	31/76	52	26	22	10	Near-consistent
Funafuti (1933-2021)	1223.9	Above normal	821.4	1063.2	941.2	75/89	58	17	25	12	Inconsistent
Niulakita (1953-2021)	1320.0	Above normal	855.3	1028.9	947.2	64/69	29	33	38	-1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2021**Predictor and Period used: NINO3.4 for March to April 2021**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2021)	71	575.3	29		14	68
Nui (1946-2021)	78	646.5	22		26	72
Funafuti (1933-2021)	70	719.4	30		15	65
Niulakita (1953-2021)	58	614.2	42		2	60

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)	56	448.0	30	696.7	14	20	56
Nui (1946-2021)	54	507.4	33	728.3	13	21	58
Funafuti (1933-2021)	57	586.1	25	814.8	18	18	51
Niulakita (1953-2021)	45	541.8	28	738.5	27	4	44

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2021



Summary Statements

Rainfall for April 2021:

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

Accumulated rainfall for February to April 2021, including outlook verification:

The two northern stations, Nanumea and Nui, recorded normal rainfall while above normal rainfall was observed at Funafuti and Niulakita. The outlook issued in January was verified as consistent at Niulakita, near-consistent at Nanumea and Nui, and inconsistent at Funafuti. Niulakita recorded its sixth wettest February to April period on record.

Outlooks for June to August 2021:

1. SCOPIC:

The outlook for the season at Nanumea, Nui and Funafuti favours below normal rainfall. The outlook for Niulakita shows below normal rainfall as the most likely outcome, with normal rainfall as the next most likely. Above normal is the least likely.

2. ACCESS-S:

Monthly rainfall:

The outlook favour below normal rainfall for all stations.

Monthly maximum temperature and minimum temperatures:

The outlook favours above normal maximum and minimum temperature at all stations.

Seasonal rainfall:

The outlook for the season favours below normal rainfall for all stations.

Seasonal maximum temperature minimum temperatures:

The outlook for the season favours above normal maximum and minimum temperatures at most stations apart from Nanumea.

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