

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 162

Country: Tuvalu

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2020	Jan-2021	Feb-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2021)	60.6	2.6	299.4	165.4	344.3	263.4	52/81
Nui (1946-2021)	383.1	146.9	320.8	224.0	359.9	283.6	47/76
Funafuti (1933-2021)	297.0	60.8	634.4	258.4	426.1	330.6	81/89
Niulakita (1953-2021)	437.2	443.1	842.4	267.3	389.0	328.0	68/69

TABLE 2: Three-month Rainfall for December 2020 to February 2021

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2021)	362.6	Below normal	718.7	1132.1	991.9	11/79	60	35	5	35	Consistent
Nui (1946-2021)	850.8	Normal	827.5	1207.9	1066.8	26/75	47	26	27	4	Near-consistent
Funafuti (1933-2021)	992.2	Below normal	993.3	1258.7	1114.8	27/88	43	26	31	0	Consistent
Niulakita (1953-2021)	1722.7	Above normal	890.0	1178.8	1023.6	64/66	25	29	46	6	Consistent

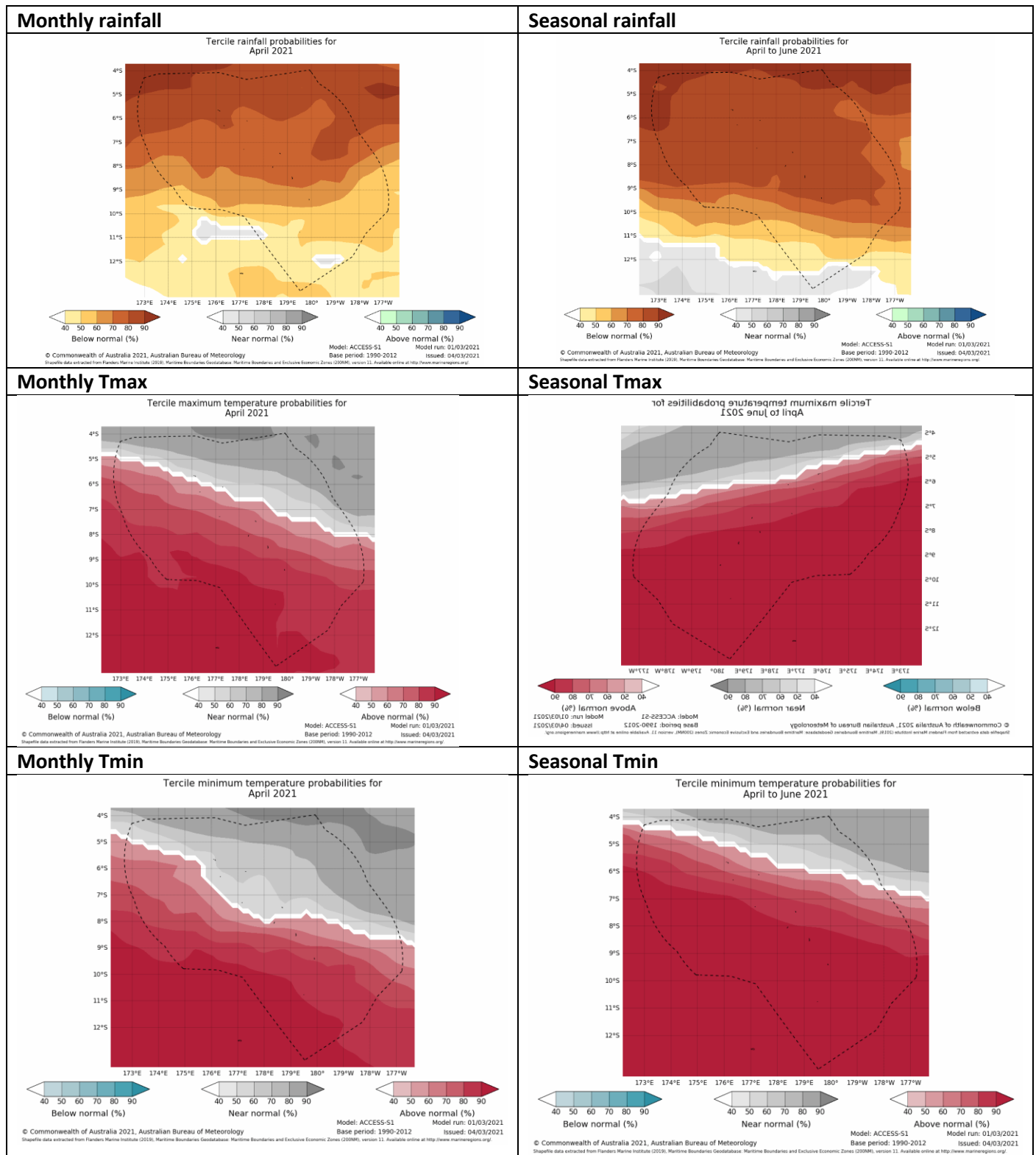
TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2021

Predictor and Period used: NINO3.4 for January to February 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2021)	77	624.0	23		21	69
Nui (1946-2021)	72	580.2	28		18	73
Funafuti (1933-2021)	72	706.9	28		19	70
Niulakita (1953-2021)	58	657.0	42		2	56

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)	51	526.9	40	767.9	9	22	58
Nui (1946-2021)	53	503.2	36	735.4	11	6	52
Funafuti (1933-2021)	43	629.0	37	809.0	20	24	55
Niulakita (1953-2021)	48	576.3	29	754.1	23	7	41

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



Summary Statements

Rainfall for February 2021:

Nanumea and Nui observed normal rainfall, while Funafuti and Niulakita recorded above normal rainfall. Niulakita recorded its second wettest February while Funafuti recorded its ninth wettest on record.

Accumulated rainfall for December 2020 to February 2021, including outlook verification:

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

Outlooks for April to June 2021:

1. SCOPIC:

The outlook for the season at Nanumea and Nui favour to below normal rainfall.

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

2. ACCESS-S:

Monthly rainfall:

The outlook favour to below normal rainfall at Nanumea, Nui, Funafuti and Niulakita.

Monthly maximum and minimum temperature:

The outlook favour near normal maximum and minimum temperatures for Nanumea, while Nui, Funafuti and Niulakita stations favours above maximum and minimum temperatures.

Seasonal rainfall:

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

Seasonal maximum and minimum temperature:

The outlook for the season favours near normal maximum and minimum temperature at Nanumea, while Nui, Funafuti and Niulakita favours above normal maximum and minimum temperature.

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