

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 163

Country: Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	Jan-2021	Feb-2021	Mar-2021				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2021)	2.6	299.4	108.6	184.2	309.9	249.4	8/81
Nui (1946-2021)	146.9	320.8	151.9	226.3	339.5	261.6	12/76
Funafuti (1933-2021)	155.7	634.4	192.5	268.5	367.8	315.2	18/89
Niulakita (1953-2021)	443.1	842.4	148.3	257.4	392.3	308.5	6/69

**TABLE 2: Three-month Rainfall for January to March 2021**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 October-November 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2021)	410.6	Below normal	729.6	1131.6	955.1	11/81	68	28	4	35	Consistent
Nui (1946-2021)	619.6	Below normal	838.0	1095.2	982.5	15/76	44	38	27	5	Consistent
Funafuti (1933-2021)	982.6	Below normal	930.5	1173.4	1069.4	30/89	49	36	30	7	Consistent
Niulakita (1953-2021)	1433.8	Above normal	947.9	1164.9	1076.9	59/68	31	26	43	0	Consistent

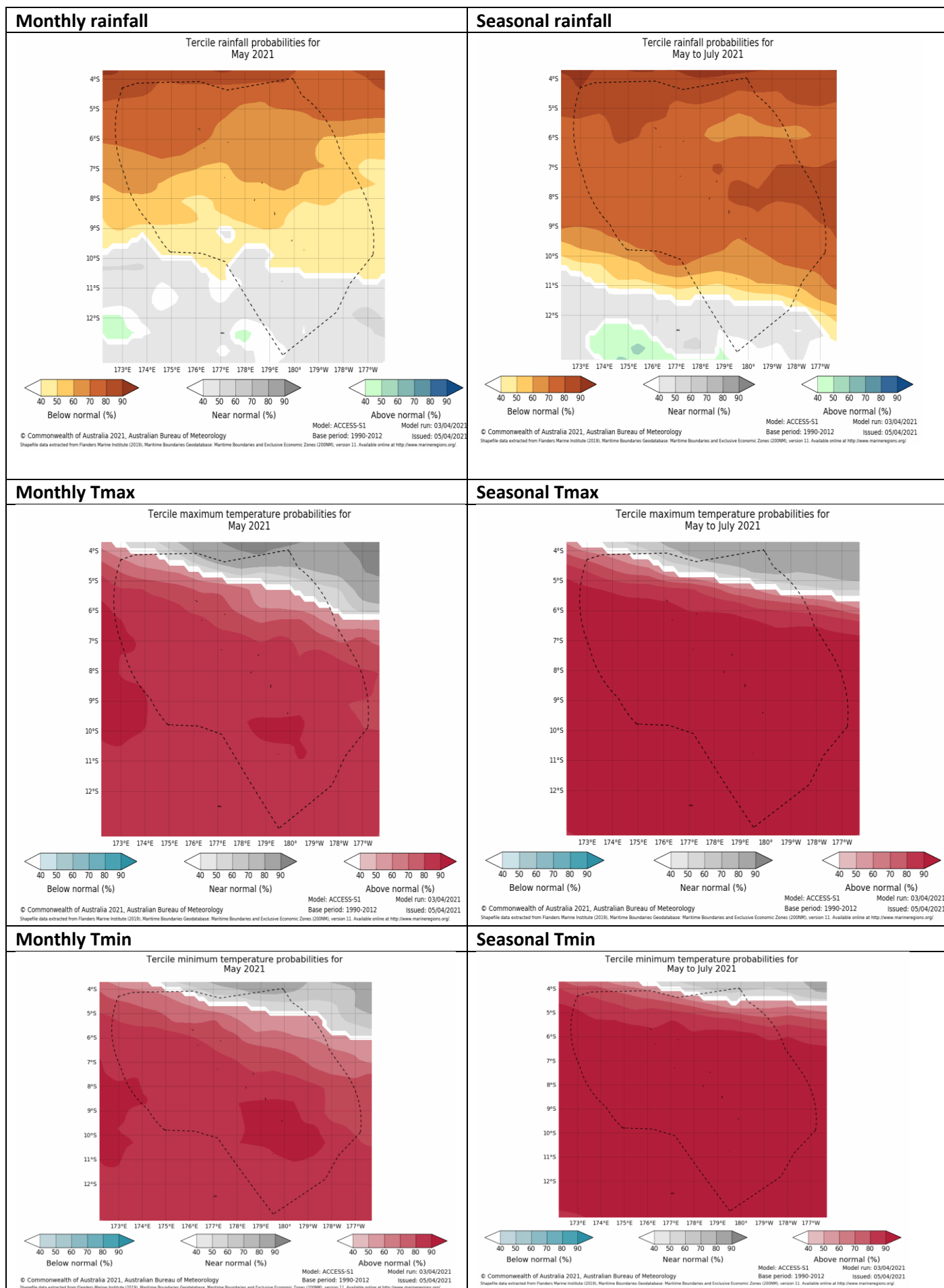
**TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2021**

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2021)	77	607.2	23		21	68
Nui (1946-2021)	75	578.3	25		21	72
Funafuti (1933-2021)	86	701.6	14		36	78
Niulakita (1953-2021)	63	653.1	37		4	63

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)	60	475.9	27	701.6	13	20	56
Niu (1946-2021)	60	514.5	34	705.7	6	33	59
Funafuti (1933-2021)	61	621.2	33	774.4	6	29	62
Niulakita (1953-2021)	41	546.3	38	781.4	21	3	46

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



## **Summary Statements**

### **Rainfall for March 2021:**

Below normal rainfall was throughout Tuvalu. Nanumea recorded its eighth lowest rainfall for March, while Niulakita recorded its sixth lowest.

### **Accumulated rainfall for January to March 2021, including outlook verification:**

Nanumea, Nui and Funafuti recorded below normal rainfall, while above normal rainfall was observed at Niulakita. The outlook issued in December was verified as consistent at all sites.

### **Outlooks for May to July 2021:**

#### **1. SCOPIC:**

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

The outlook for Niulakita shows near-equal chances of below normal and normal rainfall; above normal as the least likely.

#### **2. ACCESS-S:**

##### **Monthly rainfall:**

The outlook favours below normal rainfall at Nanumea, Nui and Funafuti for May. The outlook for Niulakita shows near normal rainfall as the most likely outcome.

##### **Monthly maximum and minimum temperatures:**

The outlook favours above normal maximum and minimum temperatures across the country for May.

##### **Seasonal rainfall:**

The outlook for the season (May-July) favours below normal rainfall at all stations.

##### **Seasonal maximum and minimum temperatures:**

The outlook for the season favours above normal maximum and minimum temperatures at all stations for the May to July period.

**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**

<b>Product</b>	<b>Date: March 2021</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
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			
<b>Total</b>			<b>60</b>	<b>40</b>	<b>20</b>