

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 160

Country: Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	Oct-2020	Nov-2020	Dec-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2020)	45.4	64.4	60.6	210.6	396.2	294.4	5/79
Nui (1946-2020)	142.3	164.1	383.1	265.9	420.1	308.6	47/75
Funafuti (1933-2020)	270.8	143.5	297.2	308.6	435.1	347.0	26/88
Niulakita (1953-2020)	199.2	271.4	437.2	233.7	358.2	291.6	53/67

**TABLE 2: Three-month Rainfall for October to December 2020**

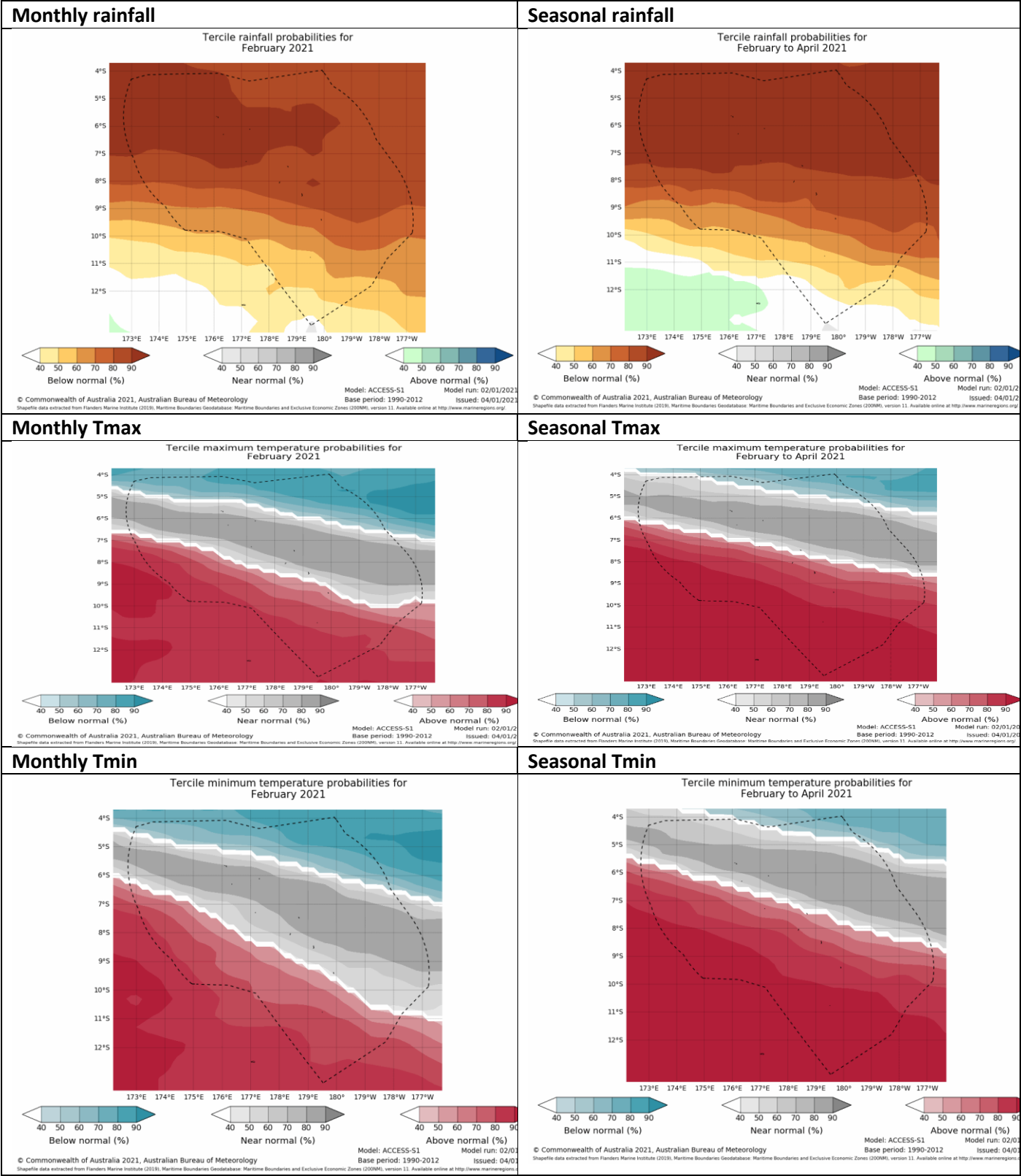
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 July-August 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2020)	170.4	Below normal	538.3	765.7	643.4	5/79	40	45	15	33	Near-consistent
Nui (1946-2020)	689.5	Below normal	710.9	908.7	802.9	21/75	37	32	31	8	Consistent
Funafuti (1933-2020)	711.5	Below normal	808.9	1008.4	893.3	15/88	35	33	32	-1	Consistent
Niulakita (1953-2020)	907.8	Normal	741.2	975.3	832.2	39/66	34	31	35	-1	Near-consistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2021****Predictor and Period used: NINO3.4 for November to December 2020**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2020)	74	823.9	26		17	64
Nui (1946-2020)	61	825.5	39		4	60
Funafuti (1933-2020)	72	941.2	28		15	64
Niulakita (1953-2020)	42	947.2	58		1	53

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)	76	640.8	17	1002.0	7	37	59
Nui (1946-2020)	52	698.3	26	983.3	22	10	51
Funafuti (1933-2020)	58	821.4	17	1063.2	25	12	47
Niulakita (1953-2020)	29	855.3	33	1028.9	38	-1	34

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



## **Summary Statements**

### **Rainfall for December 2020:**

There was a strong contrast in rainfall totals across the country in December: Below normal rainfall was observed at Nanumea and Funfuti, while Nui observed normal rainfall. Above normal rainfall was observed at Niulakita.

Nanumea registered its fifth driest December in 79 years of record.

### **Accumulated rainfall for October to December 2020, including outlook verification:**

Below normal rainfall observed at Nanumea, Nui and Funafuti, with normal rainfall at Niulakita. The outlook issued in September was verified as consistent at Nui and Funafuti, and near-consistent at Nanumea and Niulakita.

### **Outlooks for February to April 2021:**

- **SCOPIC:**

The outlook for the season favours below normal rainfall at Nanumea, Nui and Funafuti, while there is little guidance for Niulakita, as the chances of below normal, normal, and above normal rainfall similar.

- **ACCESS-S:**

#### **Monthly rainfall:**

Below normal rainfall is favoured across the country in **February**.

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

The outlook favours near-normal temperatures at Nanumea, Nui and Funafuti for February, and above normal at Niulakita.

#### **Seasonal rainfall:**

Below normal rainfall is favoured across the country for **February to April**.

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

The outlook favours above normal temperatures across the southwestern half of the country, including Nui, Funafuti and Niulakita. Nanumea is in a zone where normal temperatures favoured for the February to April 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: November 2020</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Climate Bulletin		Met staffs Disaster Members  All civil servants and kaupule members	6 9	5 5	1 4
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 5	1 4
<b>Total</b>			<b>60</b>	<b>40</b>	<b>20</b>