

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 158

Country: Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	Aug-2020	Sep-2020	Oct-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2020)	199.7	119.7	45.4	91.8	194.6	137.7	9/79
Nui (1946-2020)	268.0	119.9	142.3	141.0	215.0	179.0	25/75
Funafuti (1933-2020)	347.6	217.9	270.8	202.4	292.8	252.1	52/88
Niulakita (1953-2020)	286.0	328.2	199.2	211.2	312.4	262.0	20/68

TABLE 2: Three-month Rainfall for August to October 2020

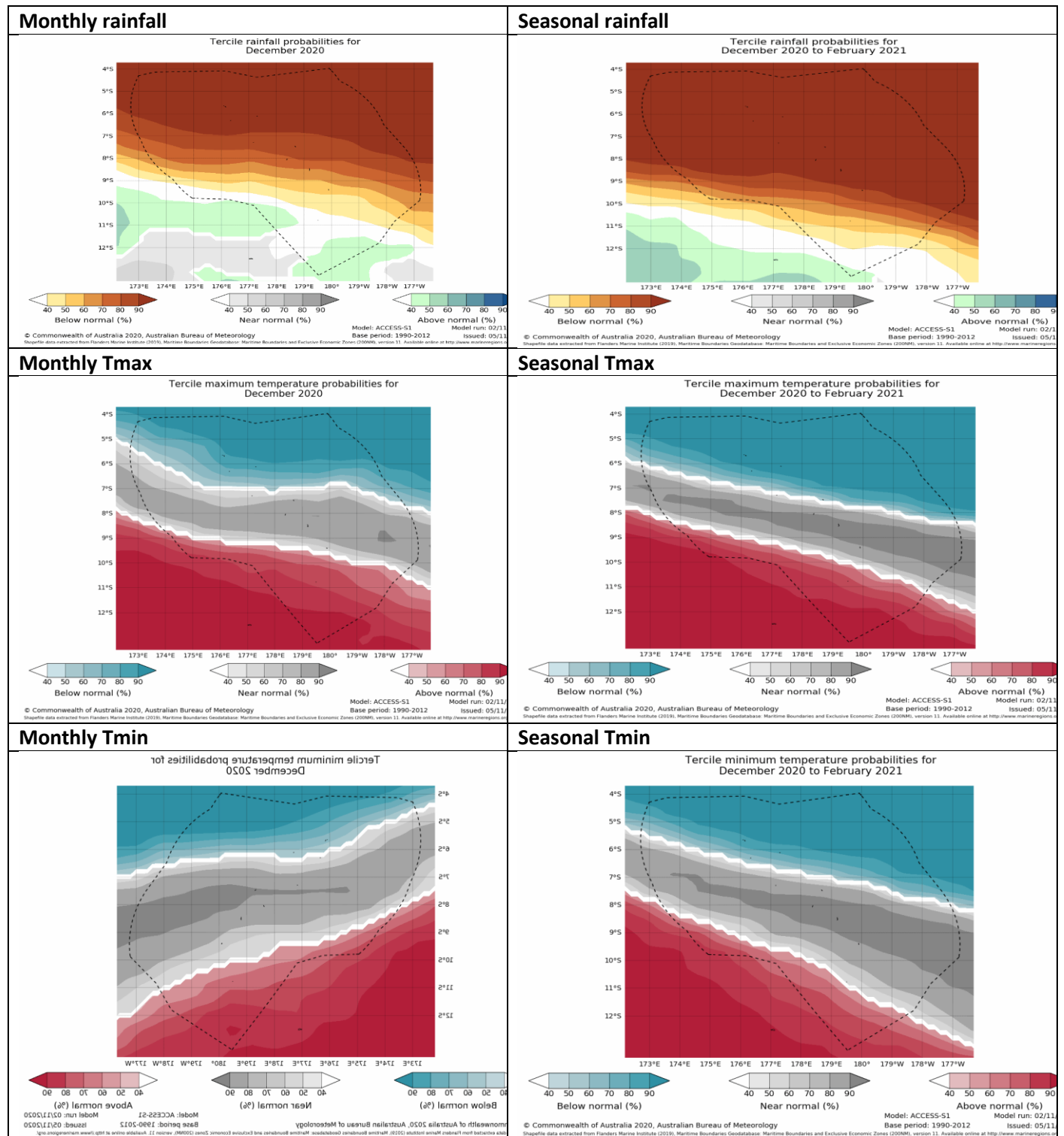
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2020)	364.8	Normal	331.0	614.0	494.7	27/79	35	44	21	32	Consistent
Nui (1946-2020)	530.2	Normal	461.0	711.7	567.2	30/75	32	37	31	25	Consistent
Funafuti (1933-2020)	836.3	Above normal	606.2	798.4	675.9	62/88	36	39	25	19	Near-consistent
Niulakita (1953-2020)	813.4	Normal	577.0	829.2	679.0	43/68	34	33	33	1	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2020)	85	991.9	15		37	70
Nui (1946-2020)	63	1066.8	37		6	61
Funafuti (1933-2020)	56	1114.8	44		0	56
Niulakita (1953-2020)	35	1023.6	65		8	62

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)	60	718.7	35	1132.1	5	35	59
Nui (1946-2020)	47	827.5	26	1207.9	27	4	34
Funafuti (1933-2020)	43	993.3	26	1258.7	31	0	43
Niulakita (1953-2020)	25	890.0	29	1178.8	46	6	42

**TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for December 2020 to February 2021**



## **Summary Statements**

### **Rainfall for October 2020:**

Nanumea and Niulakita observed below normal rainfall, with normal rainfall observed at Nui and Funafuti.

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

Normal rainfall was observed at Nanumea, Nui and Niulakita, and above normal rainfall was observed at Funafuti. The outlook issued in July was verified as consistent at Nanumea and Nui, and near-consistent at Funafuti and Niulakita.

### **Outlooks for December 2020 February 2021:**

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

The outlook for the season shows below normal rainfall is favoured at Nanumea and the most likely outcome at Nui and Funafuti. At Nui there's a near-equal likelihood of above normal and normal as the least likely outcome. At Funafuti, above normal is the next most likely, with near-normal rainfall the least likely.

The outlook for the season at Niulakita shows above normal rainfall as the most likely outcome, normal rainfall as the next most likely. Below normal rainfall is the least likely outcome.

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

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

Below normal rainfall is favoured at Nanumea, Nui and Funafuti.

The outlook offers little guidance for Niulakita as the chances of below normal, near-normal or above normal rainfall are similar.

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

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

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

The outlook favours below normal rainfall at all Tuvalu sites.

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

The outlook for December to February favours below normal at Nanumea, and near-normal temperatures at Nui and Funafuti. As for Niulakita, the outlook favours above normal maximum temperatures, while near-normal minimum temperatures are the most likely outcome.

**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: October 2020</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing					
Ocean Bulletin					
<b>Total</b>					