

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 156

Country: Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	Jun-2020	Jul-2020	Aug-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2020)	114.1	156.1	199.7	137.1	214.9	184.7	45/79
Nui (1946-2020)	191.0	421.1	268.0	137.0	263.9	190.8	51/75
Funafuti (1933-2020)	171.7	277.8	347.6	189.9	292.7	221.2	70/88
Niulakita (1953-2020)	407.9	367.4	286.0	146.8	256.5	199.3	50/68

**TABLE 2: Three-month Rainfall for June to August 2020**

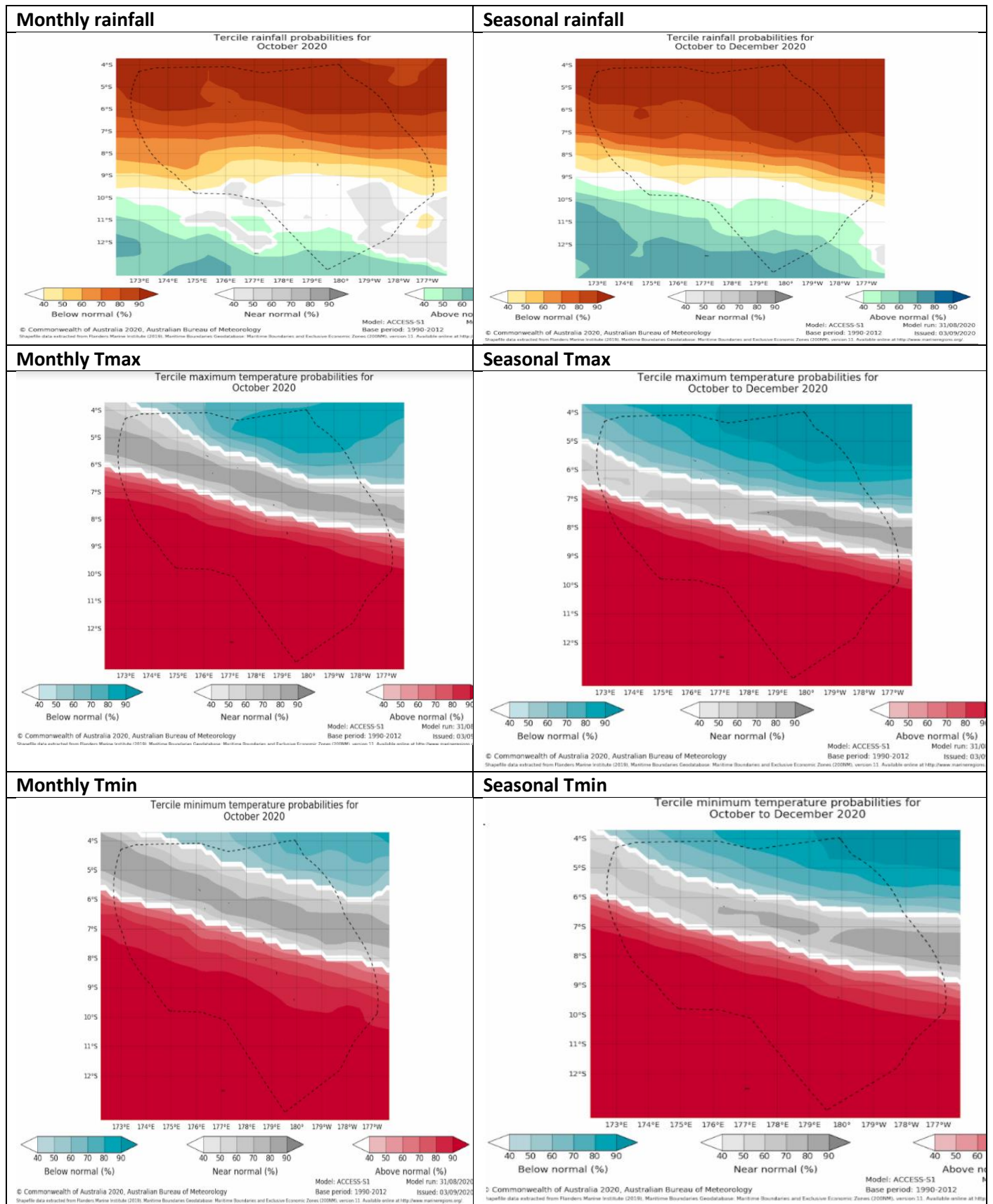
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 March-April 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2020)	469.9	Normal	410.0	698.7	534.7	30/79	10	34	56	23	Near-consistent
Nui (1946-2020)	880.1	Above normal	506.3	728.0	646.2	61/75	15	31	54	18	Consistent
Funafuti (1933-2020)	797.1	Normal	586.1	807.1	709.6	54/88	10	41	49	18	Near-consistent
Niulakita (1953-2020)	1061.3	Above normal	838.4	737.5	613.3	<b>63/68</b>	23	38	39	4	Consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2020)	65	643.4	35		37	76
Nui (1946-2020)	56	802.9	44		9	64
Funafuti (1933-2020)	52	893.3	48		0	54
Niulakita (1953-2020)	49	832.2	51		-1	57

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)	40	538.3	45	765.7	15	33	57
Nui (1946-2020)	37	710.9	32	908.7	31	8	33
Funafuti (1933-2020)	35	808.9	33	1008.4	32	-1	29
Niulakita (1953-2020)	34	741.2	31	975.3	35	-1	42

**Table 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for October to December 2020**



**Summary Statements**

## **Rainfall for August 2020:**

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

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

Normal rainfall was recorded at Nanumea and Funafuti, with the forecast issued in May being verified as near-consistent.

Above normal rainfall was collected at Nui and Niulakita, with the outlook verified as consistent.

## **Outlooks for October to December 2020:**

### **1. SCOPIC:**

The outlook for the season for Nanumea shows normal rainfall as the most likely outcome, with below normal rainfall is the next most likely. Above normal rainfall as the least likely.

For remaining sites, the outlook offers little guidance, as the chances of above normal, below normal and normal rainfall are similar.

Confidence in the outlook for the season range from exceptional for Nanumea, Moderate for Nui and very low for the southern stations.

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

#### **Monthly rainfall:**

Over the northern half of Tuvalu, including Nanumea, Nui and Funafuti, the outlook favours below normal rainfall for October. Niulakita is in a region where the outlook offers little guidance, but in the far south of the EEZ, above normal rainfall is the most likely.

#### **Monthly maximum temperature:**

Over the southwest half of the country, including Funafuti and Niulakita, the October maximum temperature is favoured to be above normal. Further north is a zone, which includes is Nanumea and Nui, where near-normal is favoured, while in the far north of the EEZ below normal is favoured.

#### **Monthly minimum temperature:**

Very similar to the outlook for October maximum, but with a larger the area favouring above normal, such that Nui is included. The outlook favours near-normal minimum for Nanumea.

#### **Seasonal rainfall:**

Similar pattern to the monthly outlook: below normal rainfall is favoured for Nanumea, Nui and Funafuti, while above normal rainfall is the most likely outcome at Niulakita for October to December.

#### **Seasonal maximum temperature:**

Similar pattern to the monthly outlook: below normal favoured at Nanumea, near-normal favoured for Nui, and above normal favoured for Funafuti and Niulakita.

#### **Seasonal minimum temperature:**

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

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: August 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	21/9/2020	Met staffs	6	5	1
		Disaster Members	9	5	4
		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	5	4
		All civil servants and kaupule members			
<b>Total</b>					