

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 166

Country: Tuvalu

**TABLE 1: Monthly Rainfall**

Station (include data period)	Apr-2021	May-2021	Jun-2021				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2021)	255.9	151.9	69.2	133.4	206.2	170.4	4/81
Nui (1946-2021)	272.9	131.1	147.0	152.9	221.3	176.6	24/76
Funafuti (1933-2021)	397.0	77.3	161.6	165.3	260.6	213.5	27/89
Niulakita (1953-2021)	329.3	74.3	350.9	145.4	266.1	197.0	55/69

**TABLE 2: Three-month Rainfall for April to June 2021**

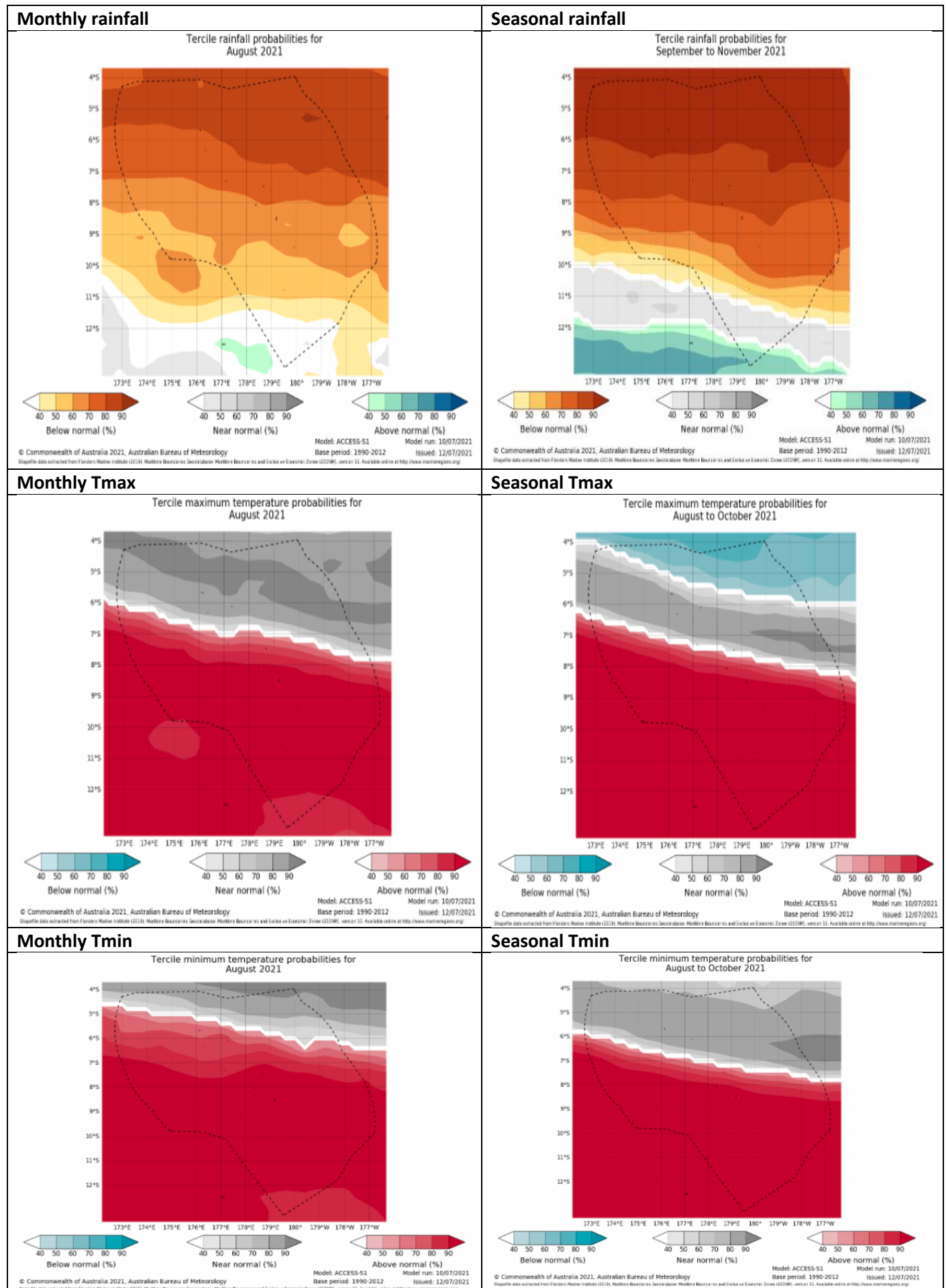
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 2021				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Nanumea (1941-2021)	477.0	Below normal	526.9	767.9	624.0	21/80	51	40	9	22	Consistent
Nui (1946-2021)	551.0	Normal	503.2	735.4	580.2	32/76	53	36	11	6	Near- consistent
Funafuti (1933-2021)	635.9	Normal	629.0	809.0	706.9	34/89	43	37	20	24	Near- consistent
Niulakita (1953-2021)	754.5	Above normal	576.3	754.1	657.0	46/69	48	29	23	7	Inconsistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2021****Predictor and Period used: NINO3.4 for May to June 2021**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Nanumea (1941-2021)	57	503.4	43		24	69
Nui (1946-2021)	59	567.4	41		31	69
Funafuti (1933-2021)	56	675.9	44		22	66
Niulakita (1953-2021)	52	683.6	48		2	60

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)	36	364.8	41	582.0	23	27	67
Nui (1946-2021)	35	498.1	36	718.3	29	22	66
Funafuti (1933-2021)	36	599.2	37	799.6	27	14	54
Niulakita (1953-2021)	35	578.2	33	829.1	32	1	44

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



## **Summary Statements**

### **Rainfall for June 2021:**

Below normal rainfall observed at Nanumea, Nui and Funafuti, while Niulakita recorded above normal rainfall. Nanumea recorded its fourth driest June on record.

### **Accumulated rainfall for April to June 2021, including outlook verification:**

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

### **Outlooks for August to October 2021:**

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

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

The outlook for the season at Funafuti shows a near-equal likelihood of below-normal and normal rainfall. Above-normal is the least likely.

For Nui and Niulakita, the outlook offers little guidance as the chances of above normal, normal and below normal are similar.

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

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

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

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

The outlook favours normal maximum temperature for Nanumea, while Nui, Funafuti and Niulakita favours above maximum temperature.

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

The outlook favours above normal minimum temperature for all stations.

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

The outlook for the season favours below normal rainfall for all station.

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

The outlook for the season shows normal maximum temperature for Nanumea, while Nui, Funafuti and Niulakita favours above normal maximum temperatures.

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

The outlook for the season favours normal minimum temperature for Nanumea, while Nui, Funafuti and Niulakita favours above normal 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: June 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		Met staffs Disaster Members  All civil servants and kaupule members	6 9	5 6	1 3
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 4	1 5
<b>Total</b>			<b>60</b>	<b>40</b>	<b>20</b>