Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 180

**Country: Tuvalu** 

Part 1: Recent climate

**TABLE 1: Monthly Rainfall** 

Station (include data period)	Jun-2022	Jul-2022	Aug-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				Natik
Nanumea (1941-2022)	57.9	28.3	159.7	143.6	214.0	185.0	27/81
Nui (1946-2022)	55.3	56.5	31.8	143.7	263.4	190.8	1/77
Funafuti (1933-2022)	93.5	87.4	76.0	190.3	304.2	222.6	3/90
Niulakita (1953-2022)	141.8	112.0	229.6	146.4	259.6	217.0	39/70

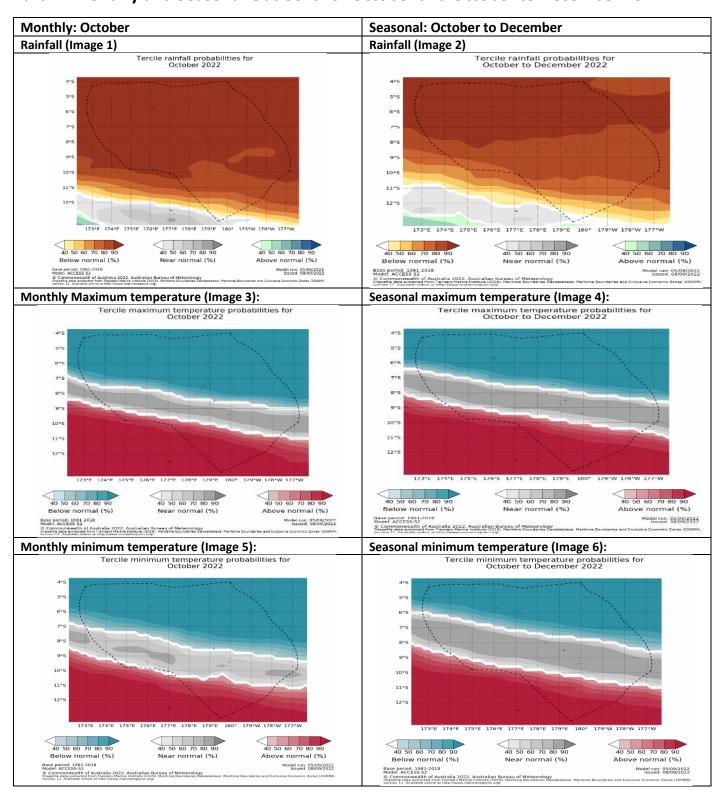
**TABLE 2: Three-month Total Rainfall for June to August 2022** 

Station	Three-r	month Total	33%tile	67%tile	Median	Rank	
Nanumea (1941-2022)	245.9	Below normal	435.9	709.9	541.7	7/81	
Nui (1946-2022)	143.6	Below normal	499.6	728.3	650.1	1/77	
Funafuti (1933-2022)	256.9	Below normal	589.0	809.7	713.8	2/90	
Niulakita (1953-2022)	483.4	Below normal	545.2	765.5	632.5	18/70	

 $Very \ Low: \ X < 0.0 \\ Low: \ 0 \le X < 5 \\ Moderate \ 5 \le X < 10 \\ Good: \ 10 \le X < 15 \\ High: \ 15 \le X < 25 \\$ 

Very High:  $25 \le X < 35$  Exceptional:  $X \ge 35$ 

# Part 1i. Monthly and Seasonal Outlooks for October and October to December 2022

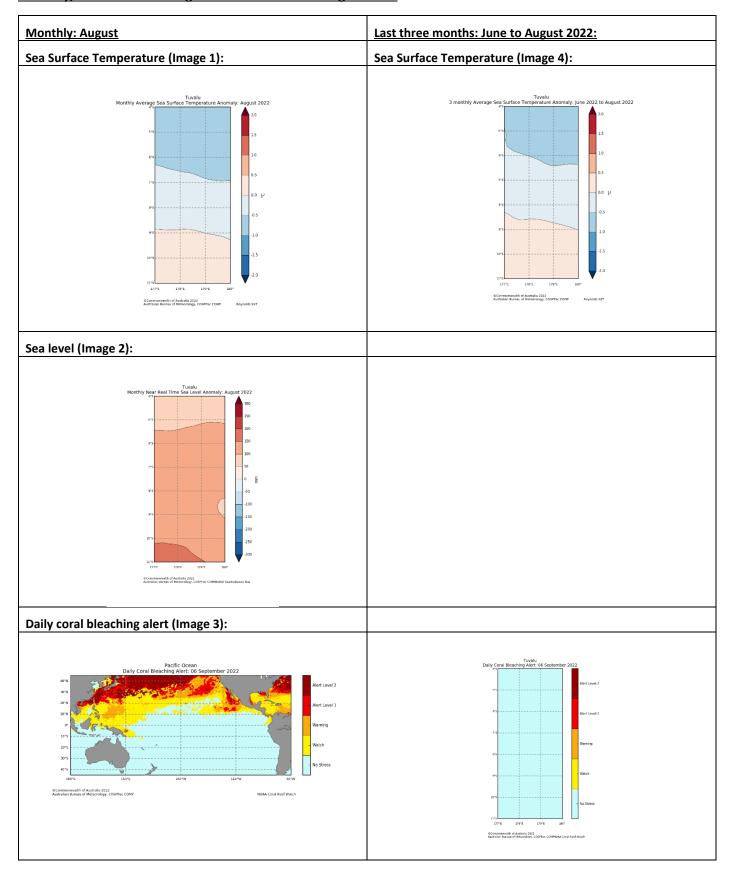


Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$ 

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

# **Part 2: Recent Ocean Observation**

# Monthly/Three months: August 2022 and June to August 2022

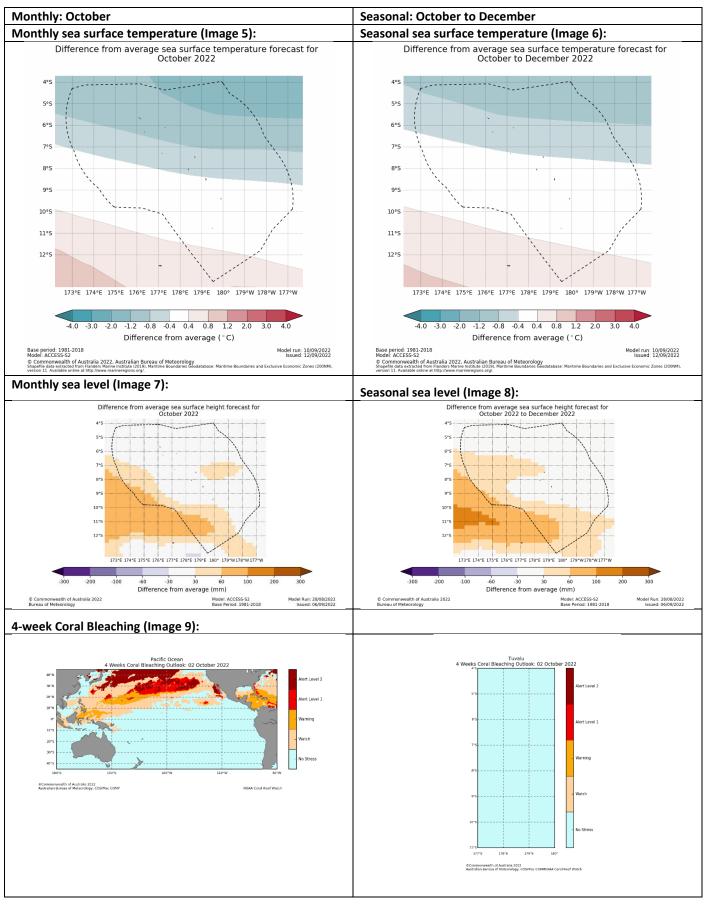


NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$ 

Very High:  $25 \le X < 35$  Exceptional:  $X \ge 35$ 

# Part 2i. Monthly and Seasonal Outlooks for October and October to December 202



NB: The X LEPS % score has been categorised as follows:

 $Very \ Low: \ X < 0.0 \qquad \qquad Low: \ 0 \le X < 5 \qquad \qquad Moderate \ 5 \le X < 10 \qquad \qquad Good: \ 10 \le X < 15 \qquad High: \ 15 \le X < 25 \qquad \qquad Low: \ 0 \le X < 10 \qquad \qquad Good: \ 10 \le X < 10 \qquad \qquad Good: \ 10 \le X < 10 \qquad Good: \ 1$ 

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

### **Summary Statement**

### Monthly and last three months: August 2022/June to August 2022 statement

August: Rainfall was below normal at Nui and Funafuti, while Nanumea and Niulakita observed normal rainfall. Niu and Funafuti recorded their driest and third driest August on record respectively.

June to August: Below normal rainfall was observed across the country. Niu, Funafuti and Nanumea recorded their driest, second driest and seventh driest June to August on record respectively.

# Part 1i. Monthly and Seasonal Outlooks for October and October to December 2022

#### Monthly /Seasonal rainfall and temperature Outlook statements

The monthly and seasonal outlook for October and October to December for Tuvalu shows below normal rainfall is very likely for all stations (Nanumea, Nui, Funafuti and Niulakita).

Maximum and minimum temperatures averaged over October and October to December are likely or very likely to be below normal at Nanumea and Niu, near-normal at Funafuti, and above normal at Niulakita.

## Part 2: Recent Ocean summary statement

#### Monthly and last three months: August/June to August 2022

The sea surface temperature for August and the last three months, reveal mostly near normal conditions for central and southern Tuvalu, with negative anomalies approaching −1 °C for northern Tuvalu.

For August 2022, Tuvalu sea level was about 50-150mm above normal.

Coral Bleaching status in the last month was 'No Stress' for the whole group of Tuvalu.

## Part 2i. Monthly and Seasonal Outlooks for October and October to December 2022

#### **Ocean Variable statement**

Monthly and seasonal sea-surface temperature outlooks indicate below normal is very likely for the northern group, with near-normal conditions for the central and southern groups of Tuvalu.

The sea level anomaly forecasts for October and October to December reveals near normal conditions, with portions of Tuvalu forecasted to experience above normal sea level anomalies of utmost 60mm.

Coral bleaching outlook for Tuvalu reveals no thermal stress for the next four weeks.

Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$ 

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

**TABLE 3:** Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: August 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
EAR Watch		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
Monthly Climate Briefing		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
Ocean Outlook		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
Climate data request		Tautalo lese(Student)	1		1
		Total	117	84	33

 $Very \ Low: \ X < 0.0 \qquad \qquad Low: \ 0 \le X < 5 \qquad Moderate \ 5 \le X < 10 \qquad \qquad Good: \ 10 \le X < 15 \qquad High: \ 15 \le X < 25$