# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 198

**Country: Tuvalu** 

Part 1: Recent climate

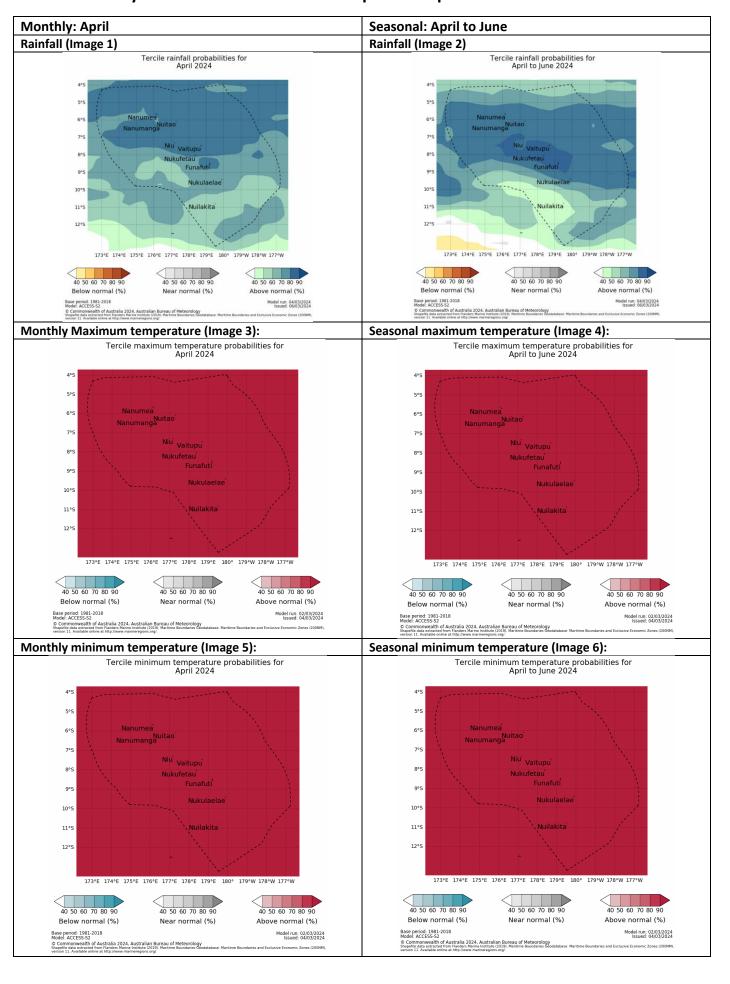
**TABLE 1: Monthly Rainfall** 

	Dec- Jan-20 2023	Jan-2024	Feb-2024				
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				Nalik
Nanumea (1941-2024)	252.4	376.1	532.6	164.6	328.4	263.4	74/83
Nui (1946-2024)	246.1	210.2	594.4	218.1	351.2	281.2	73/79
Funafuti (1933-2024)	339.4	440.3	337.0	258.4	426.1	332.6	45/92
Niulakita (1953-2024)	177.7	286.3	372.5	252.3	382.0	318.2	45/72

**TABLE 2: Three-month Total Rainfall for December 2023 to February 2024** 

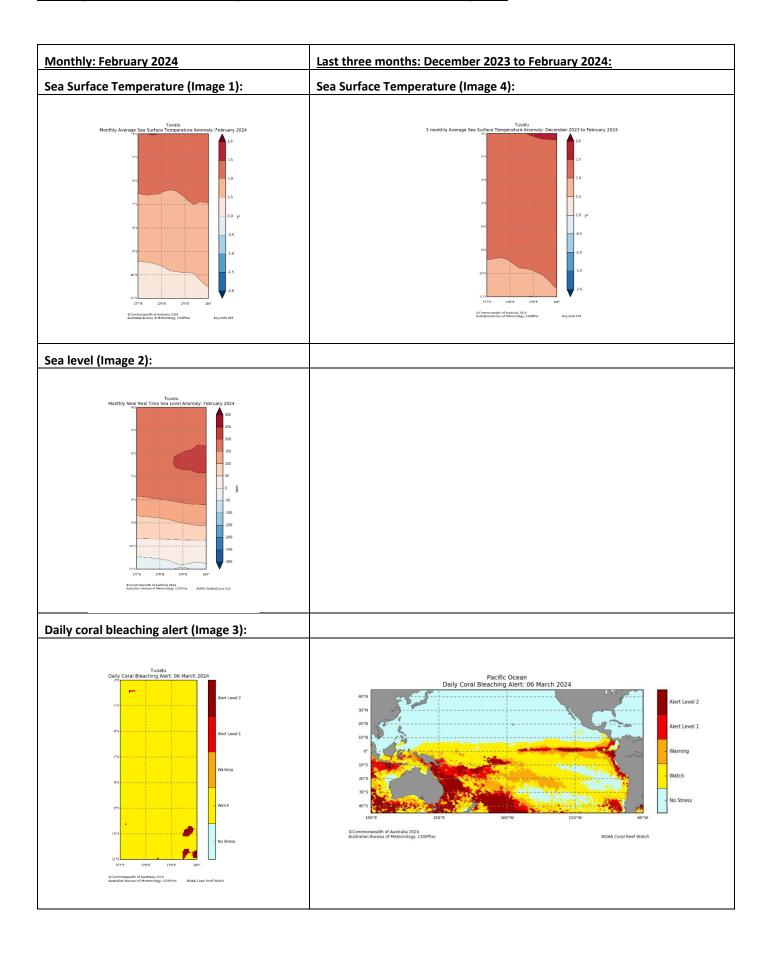
Station	Three-month Total		33%tile	67%tile Median		Rank
Nanumea (1941-2024)	1161.1	Above normal	704.8	1131.0	969.6	58/82
Nui (1946-2024)	1050.7	Normal	832.5	1196.9	1065.5	38/76
Funafuti (1933-2024)	1116.7	Normal	993.3	1258.7	1111.0	44/91
Niulakita (1953-2024)	836.5	Below normal	886.5	1174.2	1012.0	20/68

## Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

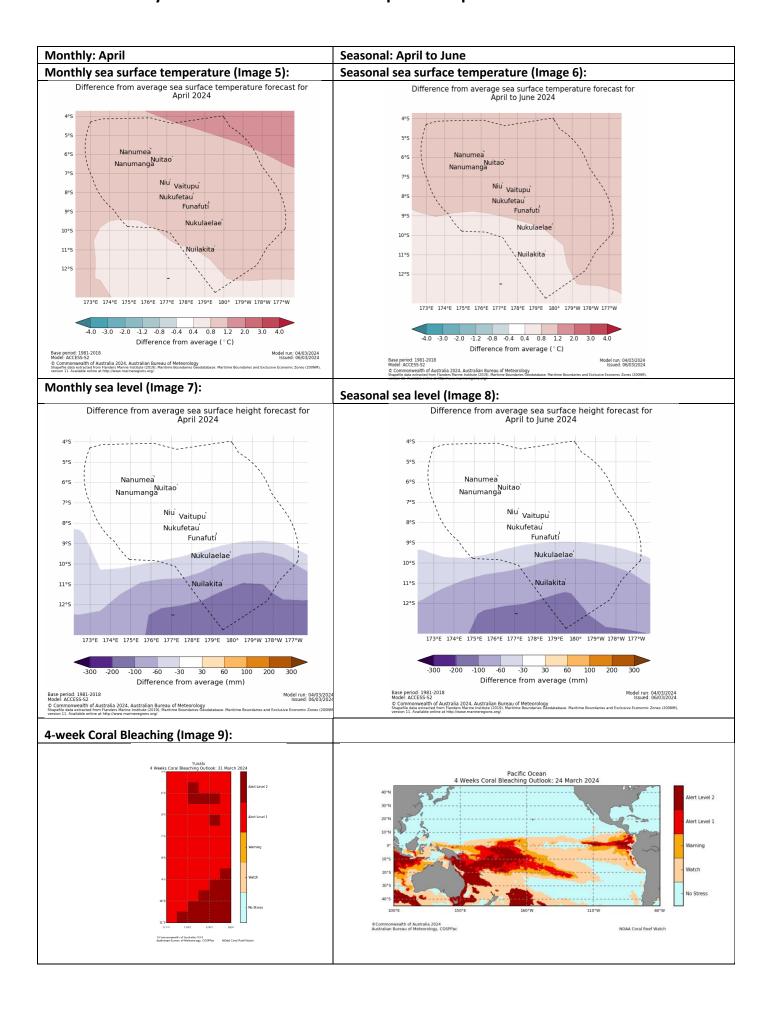


## **Part 2: Recent Ocean Observation**

### Monthly/Three months: February 2024 and December 2023 to February 2024



## Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024



### **Summary Statement**

#### Monthly and last three months: February 2024/December 2023 to February 2024 statement

The rainfall for February was above normal over Nanumea and Nui, while near-normal was observed at Funafuti and Niulakita. Nui recorded its seventh wettest February record.

For the past three months, rainfall was above normal over Nanumea, near-normal at Nui and Funafuti, and below normal at Niulakita.

### Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

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

The rainfall for April and April to June is likely or very likely to be above normal over Tuvalu.

Maximum and minimum temperatures during April and averaged over April to June are very likely to be above normal over Tuvalu.

### Part 2: Recent Ocean summary statement

#### Monthly and last three months: February 2024/December 2023 to February 2024

February ocean temperatures were 1.0 to 1.5°C above normal around Northern group, 0.5 to 1.0°C above normal in the Central group and Southern group and near normal for parts of the South-West of Tuvalu EEZ.

Averaged over December to February, ocean temperatures around Northern group and Central group were 1.0 to 1.5°C above normal while in the Southern group, ocean temperatures were 0.5 to 1.5°C above normal.

February sea levels were 150 to 200mm above normal for majority of the Northern group except for a little portion of 200 to 250mm above normal over the central Eastern side. In the Central group, sea levels were 50 to 150mm above normal, while near normalsea levels were observed in the Southern group.

Coral Bleaching Alert on watch over Tuvalu.

### Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024

#### **Ocean Variable statement**

April ocean temperatures for majority of Tuvalu are predicted to be 0.8 to 1.2°C above normal, except for ocean temperatures of 0.4 to 0.8°C above normal are predicted for the Southern side of Tuvalu EEZ.

Averaged over April to June, ocean temperatures over the Northern and Central group are predicted to be 0.8 to 1.2°C above normal, while in the Southern group, ocean temperatures are predicted to be 0.4 to 1.2°C above normal.

April and averaged over April to June sea levels around Northern group and Central group including Funafuti are predicted to be near normal, while in the Southern group sea levels are predicted to be 30 to 200mm below normal.

Coral Bleaching Outlook is predicted to be Alert Level 1 to Alert Level 2 across the country.

#### **IN BRIEF for Teleconference**

- Rainfall was above normal to normal for February and December to January, except Niulakita where rainfall was below normal for past three months.
- The rainfall outlook generally indicates above normal most likely in April and averaged over April to June.
- Sea surface temperatures (SSTs) were above normal for February and December to February. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for February. Near-normal SSHs are predicted for Northern and Central groups for April and April to June.
- Coral bleaching Alert on watch and the outlook for the next 4 weeks shows Alert level 1 to Alert level 2.

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

Product	Date: February 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate	23/02/24	MET Staff	24	13	11	
Bulletin		Disaster Dept	2	1	1	
		TRC	2	2		
		TuCAN	1		1	
		Agriculture	1		1	
		All Civil Servants	All			
		All-Kaupule	13	7	6	
		Secretary				
EAR Watch	23/02/24	MET Staff	24	13	11	
		Disaster Dept	2	1	1	
		TRC	2	2		
		TuCAN	1		1	
		Agriculture	1		1	
		All Civil Servants				
		All-Kaupule	All	7		
		Secretary	13		6	
Monthly Climate Briefing	15/02/24	Met (Climate Division)	5	2	3	
Ocean Outlook	23/02/24	MET Staff	24	13	11	
		Disaster Dept	2	1	1	
		TRC	2	2		
		TuCAN	1		1	
		Agriculture	1		1	
		Fisheries Dept	1		1	
		All Civil Servants	All	7		
		All-Kaupule	13		6	
		Secretary				

Climate d request	lata 12/02/24	Education département (Rainfall data for Funafuti and Vaitupu)	2	1	1	
		Total	136	72	64	

Product	Date	Social Media	Viewers	Like	Share	Comments
Rainfall and Ocean Outlook Video show	07/03/24	Facebook Page (Tuvalu Meteorological Service)	3.74k	127	16	Need more vidéos for Product

## Storm Surges with fresh strong wind and spring tide in Funafuti, Tuvalu on 11th February, 2024



Figure 1: Storm surges and highest tide contributed toward the main road affect the transportations service. Source: Tuvalu Meteorological Service

#### Flash flooded in Kavatoetoe, Funafuti, 11 February- 2024



Figure 2: Rising Sea level inundated areas and affected the living standard of Households

Source: Tuvalu Meteorological Service

## King tide of the year 2024 in Tuvalu, 10/03/24





Figure 3: rise the sea level into the main roads causing inundating vital transportation Source: TMS