# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 206

**Country: Tonga** 

Part 1: Recent climate

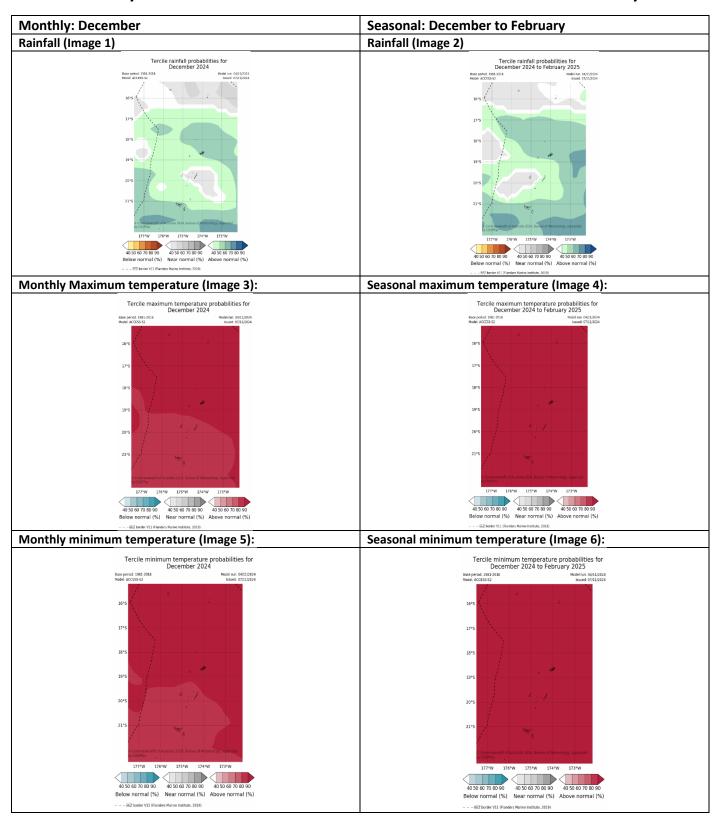
**TABLE 1: Monthly Rainfall** 

Station (include data period)	Aug- 2024	Sep-2024	Oct-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				Num
Northern Division							
Niuafo'ou (1971-2024)	164.5	106.5		137.0	198.0	165.0	
Niuatoputapu (1947-2024)	51.5	148.5	128.5	114.3	216.5	167.0	29/75
Vava'u (1947-2024)	109.1	144.6	60.9	100.3	178.3	143.7	18/78
Ha'apai (1947-2024)	18.5	87.6	87.3	52.8	125.0	94.8	36/78
Southern Division							
Fua'amotu (1979-2024)	93.8	87.8	383.7	55.6	120.0	88.9	44/45
Nuku'alofa (1944-2024)	176.0	64.0	387.0	58.0	129.7	96.5	79/81

**TABLE 2: Three-month Total Rainfall for August to October 2024** 

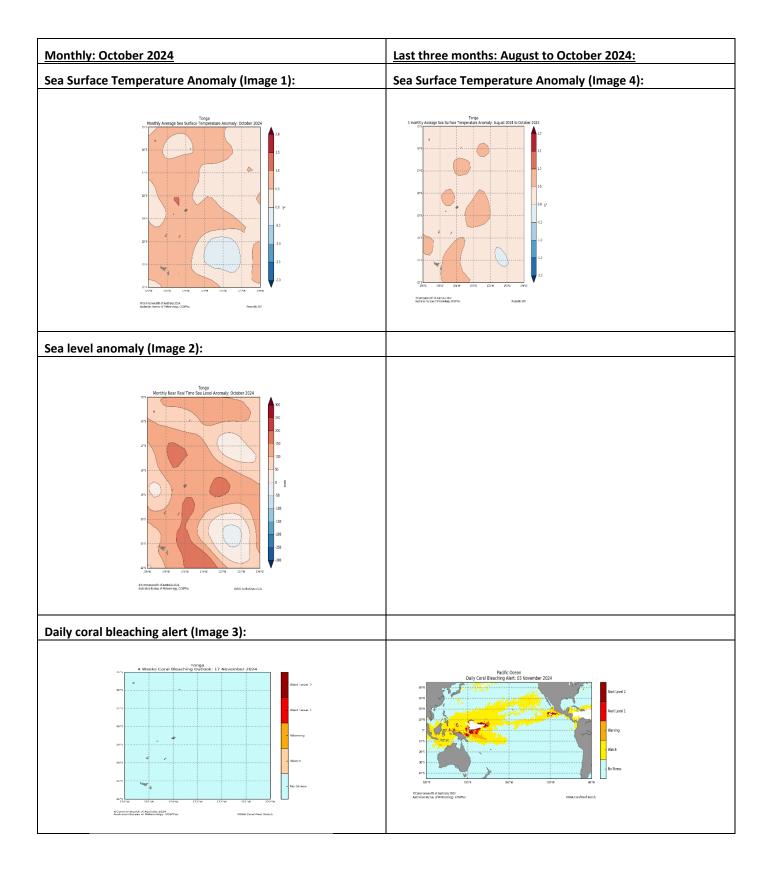
Station	Three-month Total		33%tile	67%tile	Median	Rank		
Northern Division								
Niuafo'ou (1971-2024)			313.7	475.7	402.2			
Niuatoputapu (1947- 2024)	328.5	Normal	272.0	510.9	340.0	36/75		
Central Division								
Vava'u (1947-2024)	314.6	Below normal	337.2	474.6	400.0	25/78		
Ha'apai (1947-2024)	193.4	Below normal	238.7	355.0	294.9	18/78		
Southern Division								
Fua'amotu (1979-2024)	565.3	Above normal	279.6	400.0	352.4	41/45		
Nuku'alofa (1944-2024)	627.0	Above normal	266.9	395.3	338.5	74/80		

## Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025

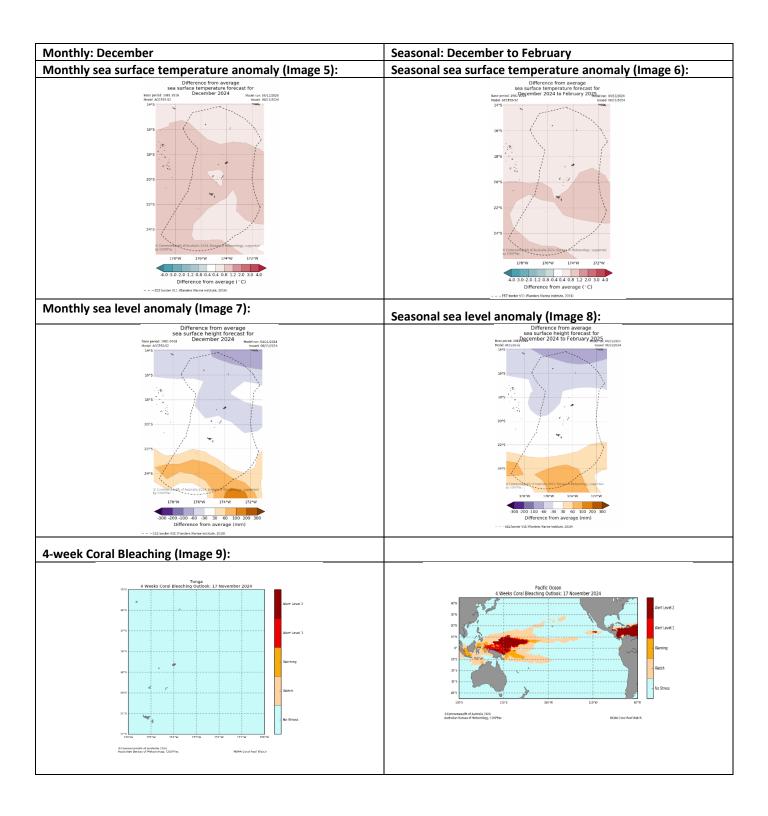


## **Part 2: Recent Ocean Observation**

## Monthly/Three months: October 2024 and August to October 2024



# Part 2i. Monthly and Seasonal Outlooks for December and December to February 2025



### **Summary Statement**

#### Monthly and last three months: October 2024/August to October 2024 statement

The rainfall for October was above normal at Fua'amotu and Nuku'alofa, near normal rainfall at Niuatoputapu and Ha'apai, below normal rainfall for Vava'u. Fua'amotu recorded the second, while Nuku'alofa recorded its third highest October rainfall on record.

August to October rainfall was above normal at Nuku'alofa and Fua'amotu, near normal for Niuatoputapu, below normal rainfall at Vava'u and Ha'apai. Nuku'alofa had its seventh and Fua'amotu had its fifth highest August to October rainfall on record.

## Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025

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

Rainfall in December is likely to be above normal for Tongatapu and Va'vau, while near normal rainfall is likely over Ha'aai and Niuafou and Niua. Rainfall over December to February is very likely to be above normal for all of Tonga, except for northern Tonga and Tofua with near normal rainfall likely.

Maximum and minimum temperatures December and averaged over December to February, are very likely to be above normal across the country.

### Part 2: Recent Ocean summary statement

#### Monthly and last three months: October 2024/August to October 2024

October sea surface temperatures around Tonga were utmost 0.0 to 1.5°C above normal.

Averaged over August to October, sea surface temperatures around Tonga were utmost 1.0°C above normal.

October sea levels were 50 to 200mm above normal

Coral Bleaching is at "No Stress"

### Part 2i. Monthly and Seasonal Outlooks for December and December to January 2025

#### **Ocean Variable statement**

December and averaged over December to January, sea surface temperatures around Tonga are predicted to be 0.4 to 1.2°C above normal.

December and averaged December to January sea levels are predicted to be -30mm to 30mm near- normal over Tongatapu, 30 to 100mm above normal to the south of Tongatapu and 30 to 60mm below normal over northern Tonga.

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

- Rainfall was generally normal to above normal for October and below normal and above normal for October to December.
- The rainfall outlook generally indicates above normal most likely in December over December to February, with normal rainfall likely for northern region and part of the central region over the same two periods.

- SSTs were above normal for October and August to October. The outlook shows above normal SSTs for the next one and three months.
- Sea levels were above normal for October. Near normal to above normal sea levels are predicted for December and December to January.

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

Product	Date: October 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin	3 October	Government ministries, NGOs, Media, Private Sector	155	188	37	
EAR Watch						
Monthly Climate Briefing						
Ocean Outlook	3 October	Government ministries, NGOs, Media, Private Sector	155	188	37	
Climate data request						
		Total	310	236	74	