Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 202

Country: Tonga

Part 1: Recent climate

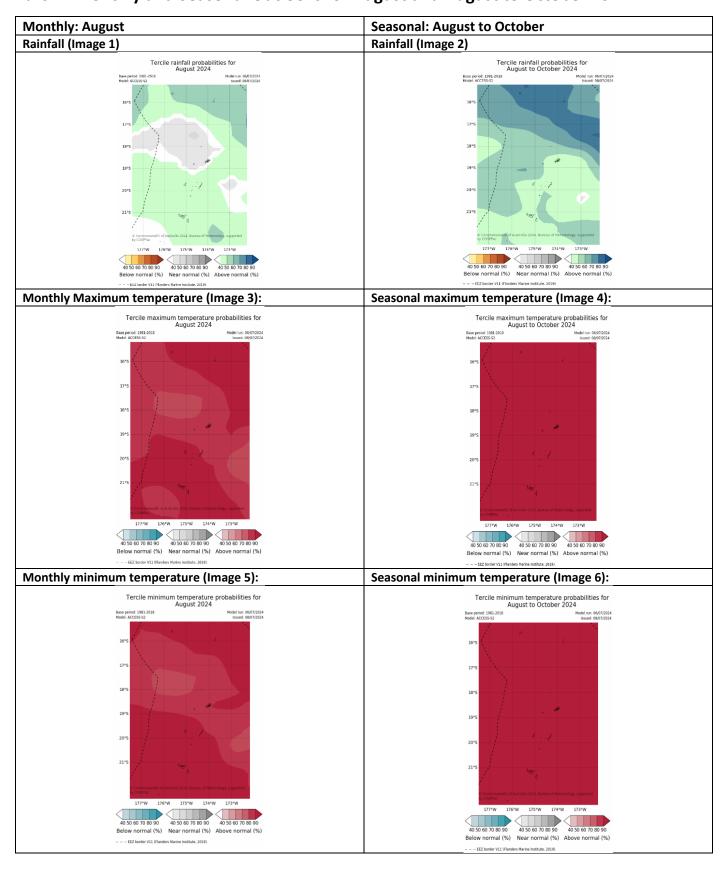
TABLE 1: Monthly Rainfall

	Apr- 2024	May- 2024	Jun-2024					
' Station (include data period)			Total (mm)	33%tile	67%tile	Median	Donk	
	Total (mm)	Total (mm)	Rainfall (mm)				Rank '	
Northern Division								
Niuafo'ou (1971-2024)	192.0	67.5	25.0	72.3	152.6	111.9	3/52	
Niuatoputapu (1947-2024)	178.5	163.0	157.5	62.7	163.0	89.6	52/78	
Central Division								
Vava'u (1947-2024)	100.4	162.2	107.8	57.3	134.0	90.0	46/78	
Ha'apai (1947-2024)	40.6	135.5	110.1	46.7	109.3	74.5	55/78	
Southern Division								
Fua'amotu (1979-2024)	22.3	384.8	46.3	70.4	135.2	99.2	8/45	
Nuku'alofa (1944-2024)	134.5	297.5	37.5	58.0	113.7	84.0	18/80	

TABLE 2: Three-month Total Rainfall for April to June 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank	
		Rai					
Northern Division							
Niuafo'ou (1971-2024)	284.5	Below normal	490.7	650.0	581.2	5/51	
Niuatoputapu (1947- 2024)	499.0	Normal	425.0	605.0	533.0	32/71	
Central Division							
Vava'u (1947-2024)	370.4	Below normal	412.7	587.7	493.5	21/78	
Ha'apai (1947-2024)	286.2	Below normal	295.0	437.0	356.0	24/77	
Southern Division							
Fua'amotu (1979-2024)	453.4	Normal	333.7	511.2	454.9	23/45	
Nuku'alofa (1944-2024)	469.5	Above normal	293.0	438.0	363.0	57/79	

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

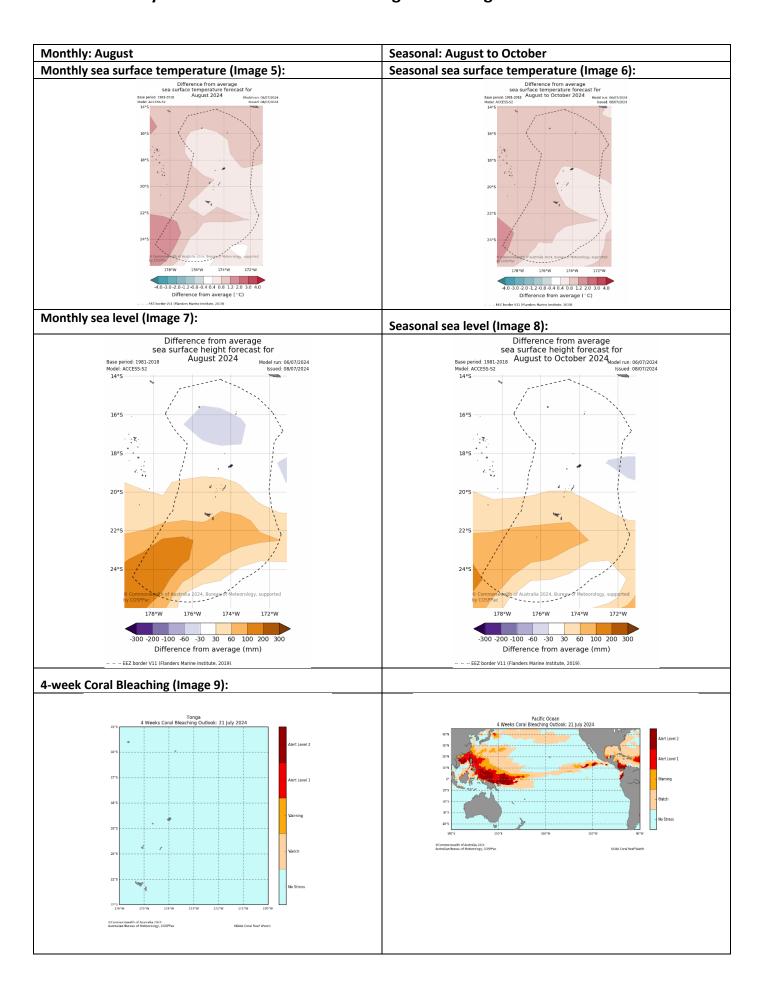


Part 2: Recent Ocean Observation

Monthly/Three months: June 2024 and April to June 2024

Monthly: June 2024	Last three months: April to June 2024:
Sea Surface Temperature (Image 1):	Sea Surface Temperature (Image 4):
Monthly Average Sea Surface Temperature Anomaly, pine 2024 23 10 10 10 10 10 10 10 10 10 1	Tongs 3 monthly Average Sea Surface Temperature Averancy - April 2024 to June 2024 28 19 10 10 10 10 10 10 10 10 10
Sea level (Image 2):	
Morthly Near Real Time State Level Aromaly: Jane 2024. 228 228 229 230 230 230 240 240 240 240 240 240 240 240 240 24	
Daily coral bleaching alert (Image 3):	
Coally Cornel Distraction Abort: 05 July 2004 Altert Lond 2 Altert Lond 2 Altert Lond 2 Altert Lond 2 Altert Lond 3 Altert Lond 3 Altert Lond 1 Altert Lond 1 Altert Lond 1 Altert Lond 2 Altert Lond 1 Altert Lond 2 Altert Lond 1 Alte	Pacific Ocean Daily Ceral Bleaching Alert. 67 July 2024 Aler Level 2 Aler Level 1 Whering Whoring Whoring

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024



Summary Statement

Monthly and last three months: June 2024/April to June 2024 statement

The rainfall for June was above normal at Ha'apai, near-normal at Niuatoputapu and Vava'u, and below normal at Niuafo'ou, Fua'amotu and Nuku'alofa. Niuafo'ou recorded its third lowest June rainfall.

April to June 2024 rainfall was above normal at Nuku'alofa, near-normal at Niuatoputapu and Fua'amotu, and below normal rainfall at remaining sites. Niuafo'ou had its fifth lowest April to June rainfall on record.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly /Seasonal rainfall and temperature Outlook statements

For most of Tonga, rainfall in August and over August to October is likely or very likely to be above normal. The main exception is for parts central Tonga, including Vava'u, where August rainfall is likely to be near-normal.

Maximum and minimum temperatures during August and averaged over August to October, are very likely to be above normal across the country.

Part 2: Recent Ocean summary statement

Monthly and last three months: June 2024/April to June 2024

June and average over April to June, ocean temperatures around Tonga were 0.5 to 1.5°C above normal.

June sea levels were near normal over northern Tonga and utmost 300mm above normal over the rest of the group. Coral Bleaching is at "No Stress"

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

Ocean Variable statement

August and averaged over August to October, ocean temperatures around Tonga are predicted to be 0.4 to 1.2°C above normal.

August sea levels are predicted to be -30mm to 30mm near- normal over central Tonga, below-normal over northern Tonga and utmost 200mm above-normal over southern Tonga.

Averaged over August to October, sea levels are predicted to be -30mm to 30mm near-normal over central and northern Tonga, but 60mm to 100mm above normal over southern Tonga.

IN BRIEF for Teleconference

- Rainfall was a mix of above normal, near-normal and below normal for June and April to June.
- For most of Tonga, rainfall is likely or very likely to be above normal in August and over August to October.
- SSTs were above normal for June and April to June. The outlook shows above normal SSTs for the next one and three months.

- Sea-surface heights (SSHs) were near-normal to above normal for June. Near-normal to above normal sea surface heights are predicted for August and August to October.
- Coral bleaching "NO Stress"

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

Product	Date: June 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin	3 June	Government3 ministries, NGOs, Media, Private sector	155	188	37	
EAR Watch						
Monthly Climate Briefing						
Ocean Outlook	3 June	Government3 ministries, NGOs, Media, Private sector	155	188	37	
Climate data request						
Total			310	236	74	