

Country: Tonga

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2025	Mar-2025	Apr-2025				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Northern Division							
Niuafo'ou (1971-2025)				178.0	277.0	209.0	
Niuatoputapu (1947-2025)	374.4	147.8	71.6	163.1	299.7	220.0	7/75
Central Division							
Vava'u (1947-2025)	161.6	315.2	205.0	154.4	268.0	215.0	33/79
Ha'apai (1947-2025)	343.3	326.8	53.5	112.7	227.7	165.0	8/79
Southern Division							
Fua'amotu (1979-2025)	261.5	516.7	79.5	107.0	241.7	173.0	11/46
Nuku'alofa (1944-2025)	470.0	400.5	61.0	113.7	215.3	140.5	11/80

Commented [PM1]: I got 621.5mm. Please confirm which is the correct amount?

TABLE 2: Three-month Total Rainfall for February to April 2025

Station	Three-month Total	33%tile	67%tile	Median	Rank	
	Rainfall (mm)					
Northern Division						
Niuafo'ou (1971-2025)						
Niuatoputapu (1947-2025)	593.8	Below normal	685.9	837.2	756.0	15/73
Central Division						
Vava'u (1947-2025)	681.8	Below normal	720.6	960.0	837.0	20/79
Ha'apai (1947-2025)	723.6	Above normal	546.7	722.2	658.3	54/79
606.5						
Fua'amotu (1979-2025)	857.7	Above normal	494.0	735.4	606.5	43/46
Nuku'alofa (1944-2025)	931.5	Above normal	556.7	738.5	629.9	66/80

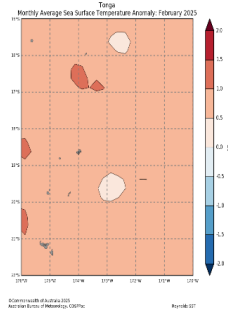
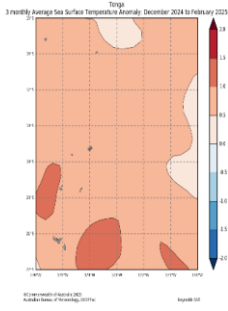
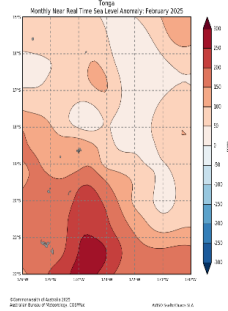
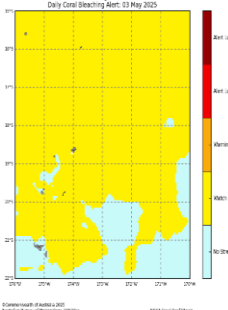
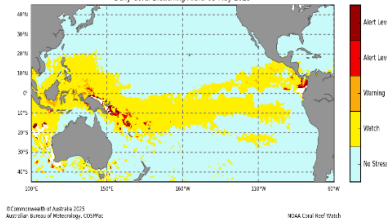
Commented [PM2]: I have my ranking 43/46

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2025

Monthly: June	Seasonal: June to August
Rainfall (Image 1)	Rainfall (Image 2)
<div><p>Tercile rainfall probabilities for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/05/2025 Issued: 03/05/2025</p><p>177°W 176°W 175°W 174°W 173°W</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>— — EEZ border V11 IFlanders Marine Institute, 2019</p></div>	<div><p>Tercile rainfall probabilities for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/05/2025 Issued: 03/05/2025</p><p>177°W 176°W 175°W 174°W 173°W</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>— — EEZ border V11 IFlanders Marine Institute, 2019</p></div>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<div><p>Tercile maximum temperature probabilities for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/05/2025 Issued: 03/05/2025</p><p>177°W 176°W 175°W 174°W 173°W</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>— — EEZ border V11 IFlanders Marine Institute, 2019</p></div>	<div><p>Tercile maximum temperature probabilities for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/05/2025 Issued: 03/05/2025</p><p>177°W 176°W 175°W 174°W 173°W</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>— — EEZ border V11 IFlanders Marine Institute, 2019</p></div>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<div><p>Tercile minimum temperature probabilities for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/05/2025 Issued: 03/05/2025</p><p>177°W 176°W 175°W 174°W 173°W</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>— — EEZ border V11 IFlanders Marine Institute, 2019</p></div>	<div><p>Tercile minimum temperature probabilities for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 03/05/2025 Issued: 03/05/2025</p><p>177°W 176°W 175°W 174°W 173°W</p><p>Below normal (%) Near normal (%) Above normal (%)</p><p>— — EEZ border V11 IFlanders Marine Institute, 2019</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: April and February to April 2025

Monthly: April 2025	Last three months: February to April 2025:
Sea Surface Temperature Anomaly (Image 1):	Sea Surface Temperature Anomaly (Image 4):
	
Sea level anomaly (Image 2):	
	
National daily coral bleaching alert (Image 3):	Pacific daily coral bleaching alert (Image 3):
	

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2025

Monthly: June	
Monthly sea surface temperature anomaly (Image 5):	Seasonal: June to August
<div><p>Difference from average sea surface temperature forecast for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>EEZ border V11 (Parks Marine Institute, 2020)</p></div>	<div><p>Difference from average sea surface temperature forecast for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>EEZ border V11 (Parks Marine Institute, 2020)</p></div>
Monthly sea level anomaly (Image 7):	Seasonal sea level anomaly (Image 8):
<div><p>Difference from average sea surface height forecast for June 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>EEZ border V11 (Parks Marine Institute, 2020)</p></div>	<div><p>Difference from average sea surface height forecast for June to August 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/05/2025 Issued: 07/05/2025</p><p>EEZ border V11 (Parks Marine Institute, 2020)</p></div>
National 4-week Coral Bleaching Outlook (Image 9):	Pacific 4-week Coral Bleaching Outlook (Image 9):
<div><p>Tonga</p><p>4 Weeks Coral Bleaching Outlook: 25 May 2025</p><p>EEZ border V11 (Parks Marine Institute, 2020)</p></div>	<div><p>Pacific Ocean</p><p>4 Weeks Coral Bleaching Outlook: 25 May 2025</p><p>EEZ border V11 (Parks Marine Institute, 2020)</p></div>

Summary Statement

Monthly and last three months: April 2025/February to April 2025 statement

April 2025 rainfall was normal rainfall for Vava’u, and below normal for the rest of country. Niuatoputapu recorded its seventh driest April on record.

February to April 2025 rainfall was below normal for Niuatoputapu and Vava’u, while above normal rainfall for Ha’apai, Fua’amotu and Nuku’alofa.

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2025

Monthly /Seasonal rainfall and temperature Outlook statements

Rainfall in June and April to June is very likely to be above normal across the country.

Maximum and minimum temperatures April and averaged over April to June is very likely to be above normal across the country.

Part 2: Recent Ocean summary statement

Monthly and last three months: April 2025/February to April 2025

April 2025 sea surface temperatures around Tonga were 0.5 to 1.0°C above normal.

Averaged over February to April, sea surface temperatures around Tonga were 0.5 to 1.0°C above normal.

April sea levels around Tonga were 50 to 200mm above normal.

A Coral Bleaching Alert is on “Watch”

Part 2i. Monthly and Seasonal Outlooks for June and June to August 2025

Ocean Variable statement

June and averaged over June to August sea surface temperatures around Tonga are predicted to be 0.4 to 1.2°C above normal.

June and averaged over June to August, sea levels around Tonga are predicted to be 30 to 60mm below normal, -30 to 30mm near normal and 30 to 100mm above normal.

Coral Bleaching 4-weeks outlook shows an “Watch”

In brief for Teleconference

- Rainfall was below normal to normal for April and February to April, except Fua’amotu and Nuku’alofa where rainfall was above normal for the last three months.
- The rainfall outlook generally indicates above normal most likely in June and for total rainfall over June to August
- SSTs were above normal for April and February to April. The outlook shows above normal SST for the next one and three months.
- Sea levels were above normal for April. Below, near and above normal sea levels are predicted for June and June to August.

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

Product	Date: April 2025	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Disability	Age group	Comments (If there are comments from you Stakeholders)
Climate Bulletin	3 April	Governmet Ministries, NGOs, Media,Private Sector	225	188	37			
EAR Watch								
Monthly Climate Briefing								
Ocean Outlook	3 April	Governmet Ministries, NGOs, Media,Private Sector	225	188	37			
Climate data request								
Total			450	376	74			