Country: Tonga

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Apr- 2022	May- 2022	Jun-2022					
			Total (mm)	33%tile	67%tile	Median	Develo	
	Total (mm)	Total (mm)	Rainfall (mm)				Rank	
Northern Division								
Niuafo'ou (1971-2022)	142.4	102.7	74.5	72.3	152.7	112.0	18/49	
Niuatoputapu (1947-2022)	69.0	120.0	62.5	68.8	168.3	92.5	24/76	
Central Division								
Vava'u (1947-2022)	346.9	79.1	59.9	56.7	133.0	90.0	28/76	
Ha'apai (1947-2022)	206.4	72.8	69.2	44.7	108.7	74.5	36/76	
Southern Division								
Fua'amotu (1979-2022)	276.1	22.3	32.2	71.8	138.9	103.3	5/43	
Nuku'alofa (1944-2022)	300.5	29.0	36.5	58.0	115.5	84.0	17/78	

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

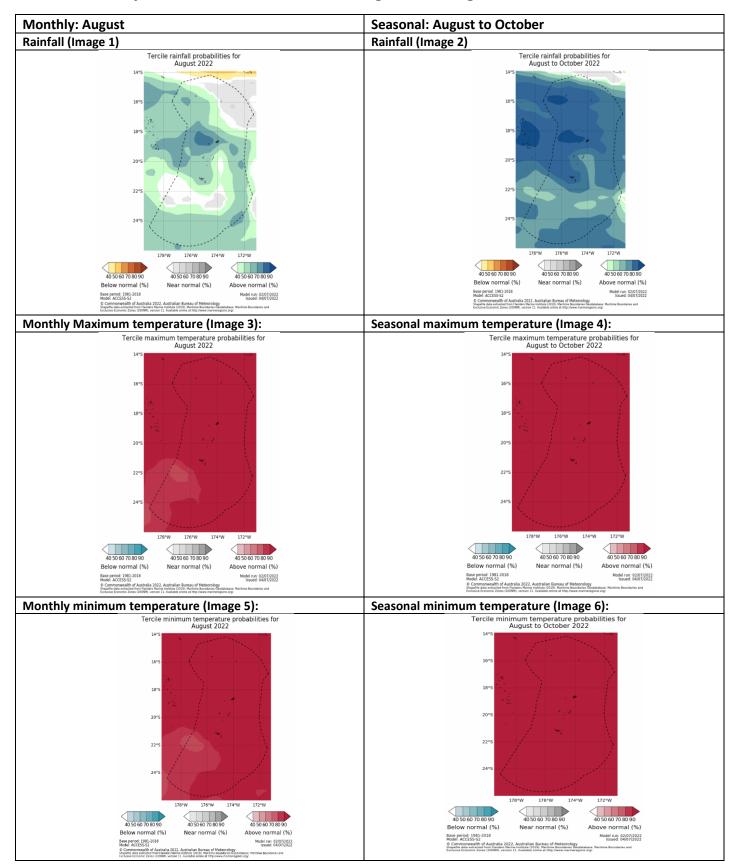
Station	Three-month Total		33%tile	67%tile	Median	Rank	
Northern Division							
Niuafo'ou (1971-2022)	319.6	Below normal	497.0	650.0	586.0	5/48	
Niuatoputapu (1947- 2022)	251.5	Below normal	435.3	613.0	535.0	5/69	
Central Division							
Vava'u (1947-2022)	485.9	Normal	411.7	585.5	493.5	37/76	
Ha'apai (1947-2022)	348.4	Normal	294.5	435.5	356.0	30/75	
Southern Division							
Fua'amotu (1979-2022)	330.6	Normal	322.7	517.7	455.2	18/43	
Nuku'alofa (1944-2022)	366.0	Normal	291.5	440.0	362.0	41/77	

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

Very Low: X < 0.0

Low: $0 \le X < 5$ Moderate $5 \le X < 10$

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



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

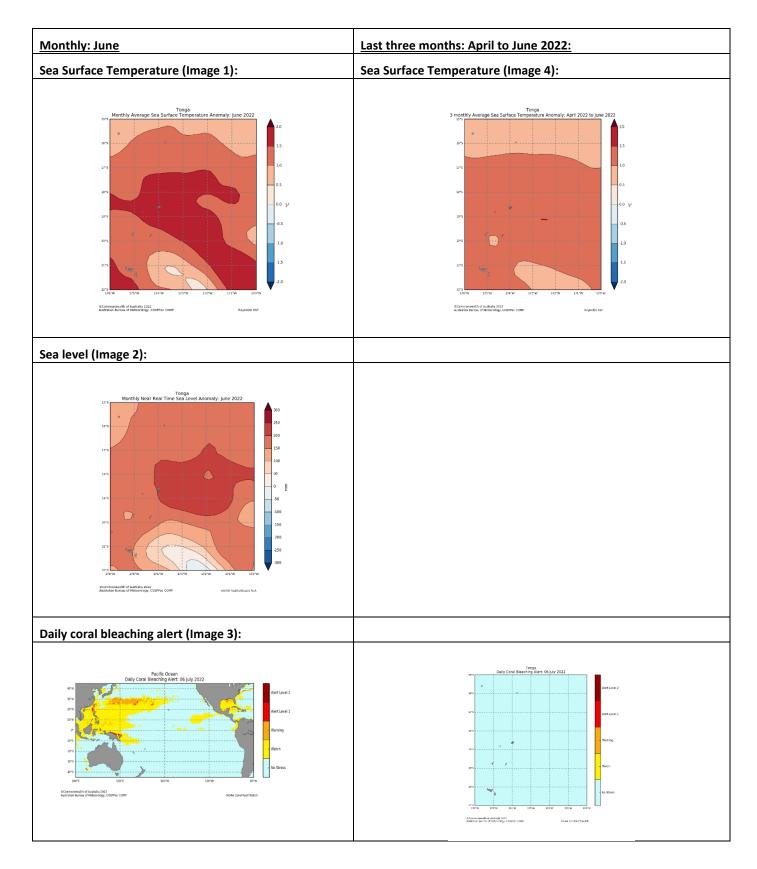
Very Low: X < 0.0

Low: $0 \le X < 5$

X < 5 Moderate $5 \le X < 10$

Part 2: Recent Ocean observations

Monthly: June 2022



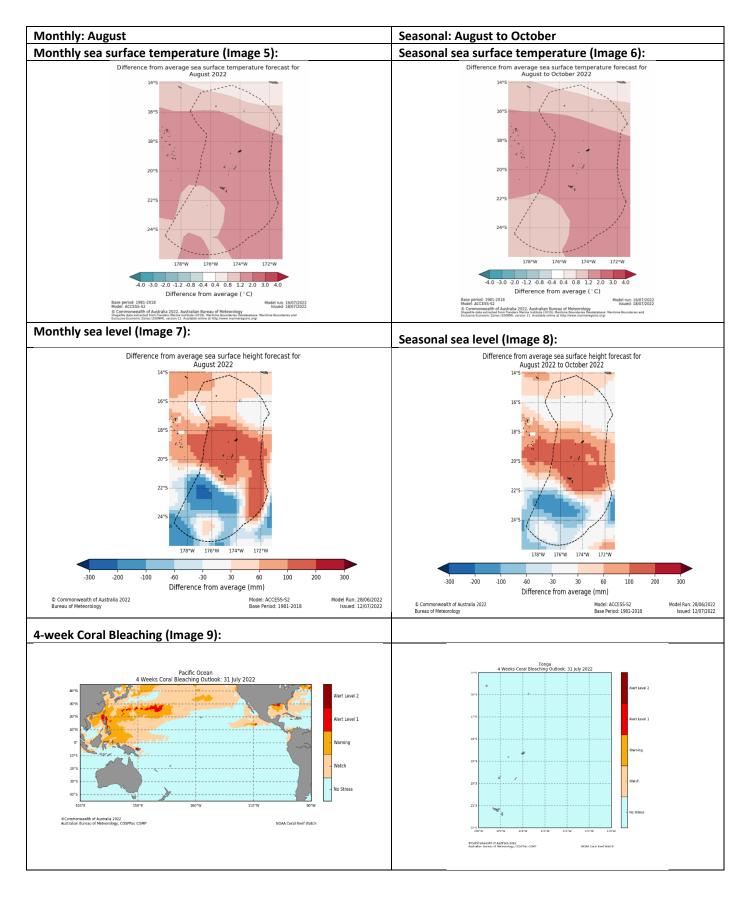
NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0

Low: 0 ≤ X < 5

 $0 \le X < 5$ Moderate $5 \le X < 10$

Part 2i. Monthly and Seasonal Outlooks for August and August to October 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: $10 \le$

Good: 10 ≤ X < 15 High: 15 ≤ X < 25

Summary Statement

Monthly and last three months: June 2022/April to June 2022 statement (Highly significant changes)

Below normal to normal rainfall was recorded across the country in June. Normal rainfall was recorded at Niuafo'ou, Vava'u and Ha'apai. Below normal rainfall was received at Niuatoputapu, Fua'amotu and Nuku'alofa.

For April to June, normal rainfall was recorded in the Central and Southern Divisions, and below normal rainfall occuured across the Northern Division. Niuafo'ou and Niuatoputapu both recorded their fifth driest April to June on record.

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

Monthly /Seasonal rainfall and temperature Outlook statements (Highly significant changes)

The August outlook for Tonga shows rainfall is likely to be above normal across most islands, apart from Niuatoputapu where near-normal is the most likely outcome. The outlook for August to October shows rainfall is likely to be above normal for the whole country.

Tonga's temperature outlooks show maximum and minimum temperatures are very likely to be above normal for both August and August to October.

Part 2: Recent Ocean summary statement

Monthly and last three months: June/April to June 2022 (Highly significant changes)

For June, Tonga experienced SSTs ranging from 0.5 to 2.0 degrees Celsius above average. The most significant anomalies of +1.5 to +2.0 °C were located over the Vava'u Group and areas to the east and southeast. For April to June, SSTs were also above average, with differences from normal of 1.0 to 1.5 °C for the majority of Tonga.

Tonga's June sea levels were mostly 100 to 200 mm above average, with asignificant region of +200 to +250 mm anomalies located around Vava'u and areas to the east. Sea level was close to normal in a small region in the south of Tonga's EEZ.

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

The monthly and seasonal SST outlooks for Tonga forecast SSTs of 0.8-2.0 degrees Celsius above average for August and August to October.

The monthly and seasonal sea surface height outlooks forecast near-normal sea surface heights in northern Tonga, and sea surface heights of 100mm to 200mm above normal over Tongatapu, Ha'apai and Vava'u. In addition, the southern EEZ of Tonga is forecast to have sea levels ranging from 60mm to 200mm below normal.

Coral bleaching outlook for Tonga reveals no thermal stress.

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

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

Product	Date: June 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	3 June	Government ministries, NGOs,Media. Private sectors	155	118	37
EAR Watch					
Monthly Climate Briefing					
Ocean Outlook	3 June	Government ministries, NGOs,Media. Private sectors	155	118	37
Climate data request					
		Total	156	236	74

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