Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 179

Country: Tuvalu

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	May-2022	Jun-2022	Jul-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2022)	33.5	57.9	28.3	121.4	218.8	155.8	**4/81**
Nui (1946-2022)	210.2	55.3	56.5	161.0	232.6	198.8	**1/77**
Funafuti (1933-2022)	312.2	93.5	87.4	191.4	266.4	221.1	**5/90**
Niulakita (1953-2022)	151.4	141.8	112.0	165.7	257.0	208.0	11/70

TABLE 2: Three-month Total Rainfall for May to July 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Nanumea (1941-2022)	119.7	Below normal	444.1	711.8	561.0	**1/81**
Nui (1946-2022)	322.0	Below normal	514.5	707.9	578.6	9/77
Funafuti (1933-2022)	493.1	Below normal	621.7	749.7	696.6	16/90
Niulakita (1953-2022)	405.2	Below normal	546.7	778.7	645.2	8/70

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

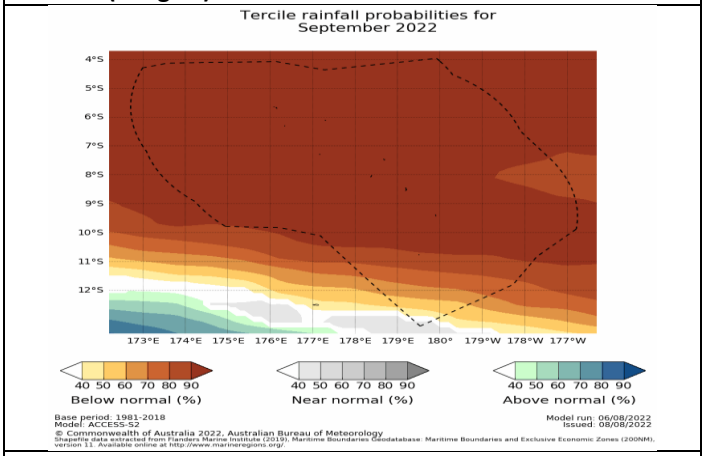
Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 1i. Monthly and Seasonal Outlooks for September and September to November 2022

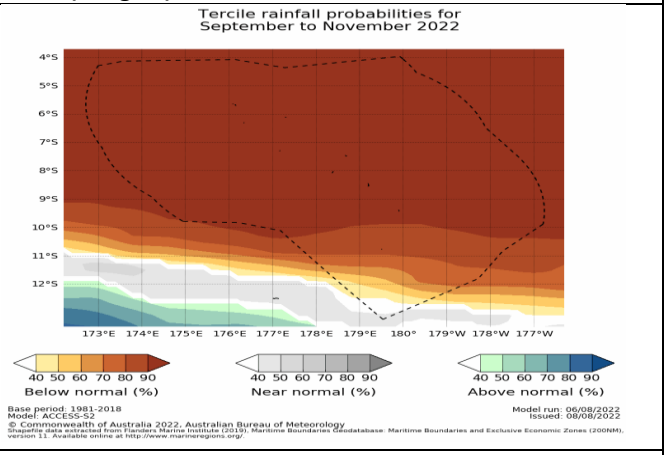
Monthly: September

Rainfall (Image 1)

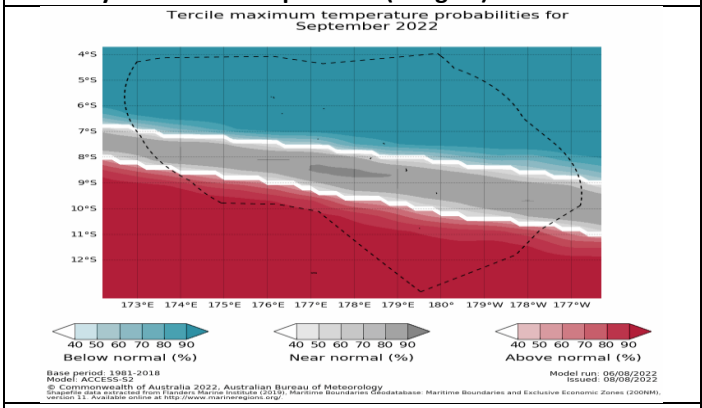


Seasonal: September to November

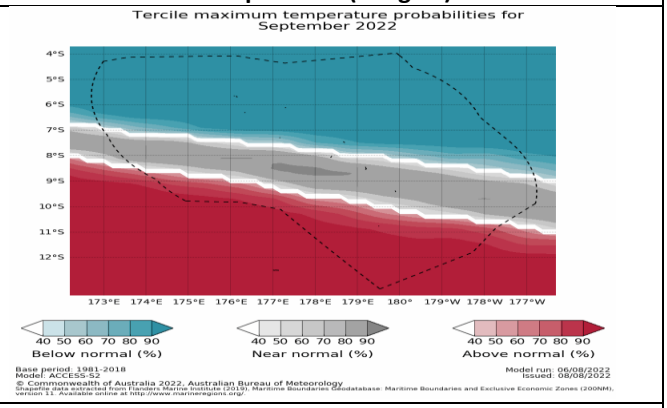
Rainfall (Image 2)



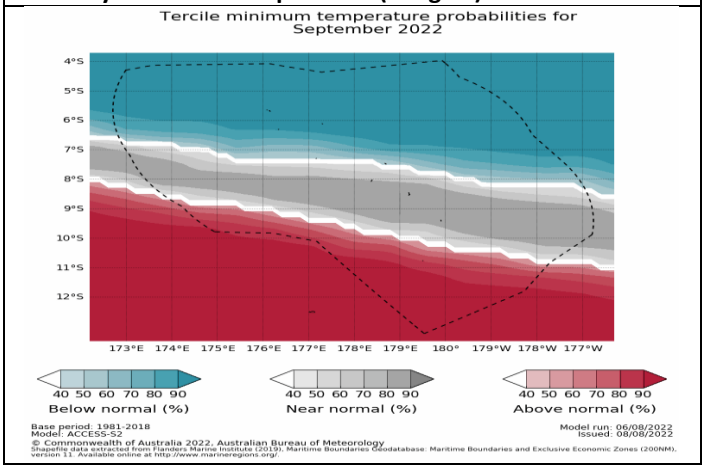
Monthly Maximum temperature (Image 3):



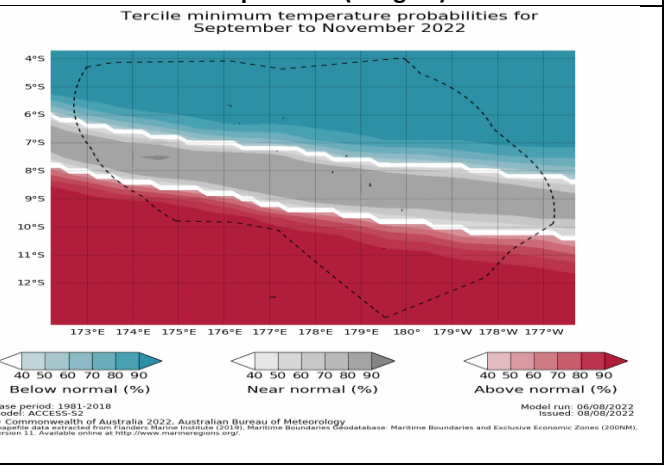
Seasonal maximum temperature (Image 4):



Monthly minimum temperature (Image 5):



Seasonal minimum temperature (Image 6):



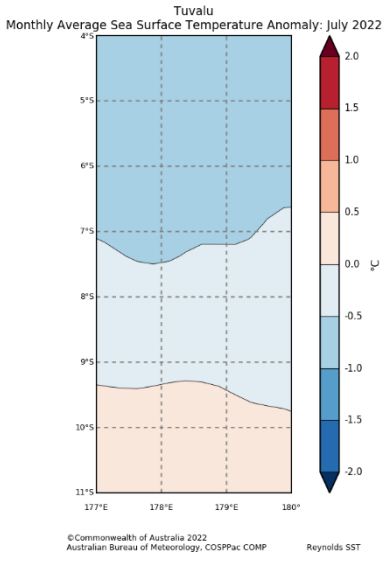
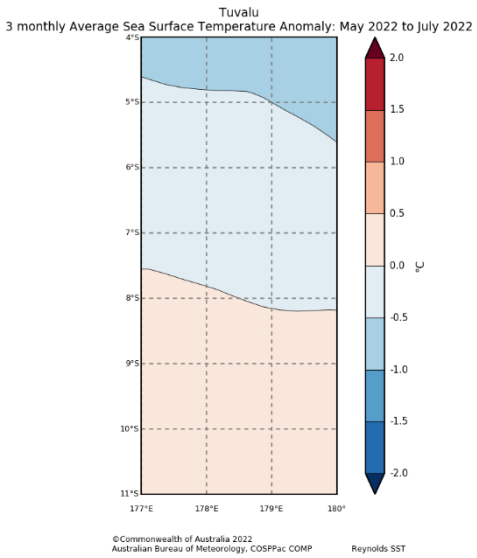
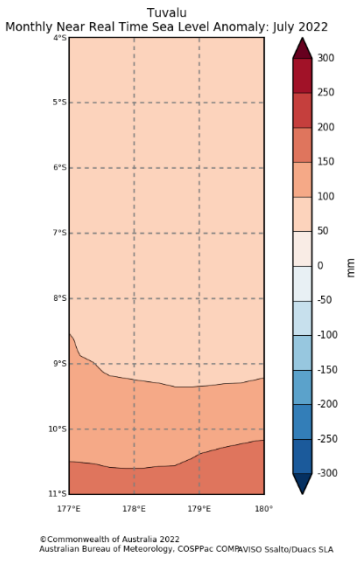
NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 2: Recent Ocean Observation

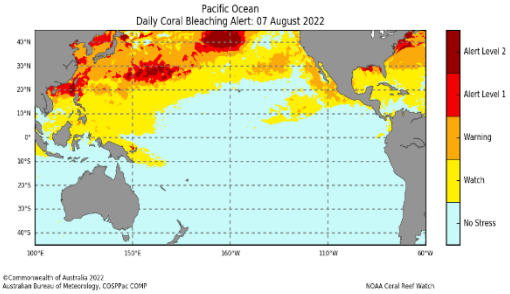
Monthly: July 2022

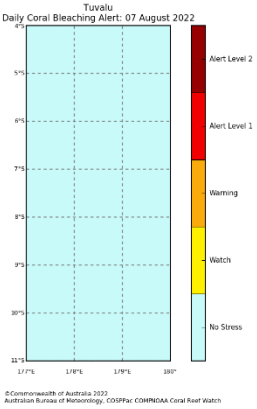
Monthly: July	**Last three months: May to July 2022:**
Sea Surface Temperature (Image 1):	**Sea Surface Temperature (Image 4):**
	
Sea level (Image 2):	
	
Daily coral bleaching alert (Image 3):	

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

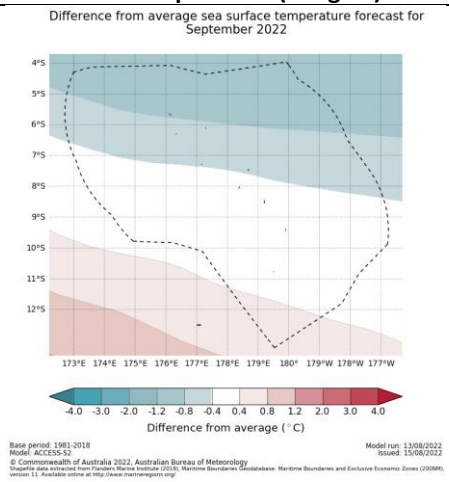
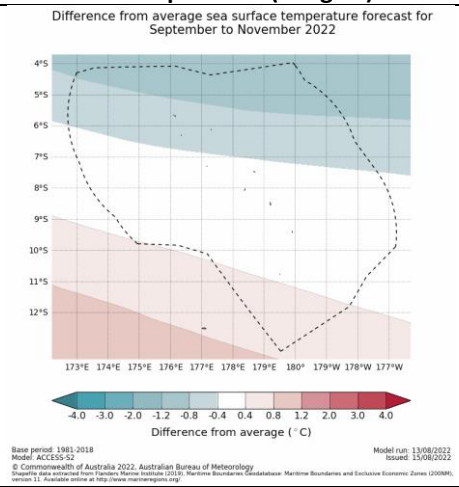
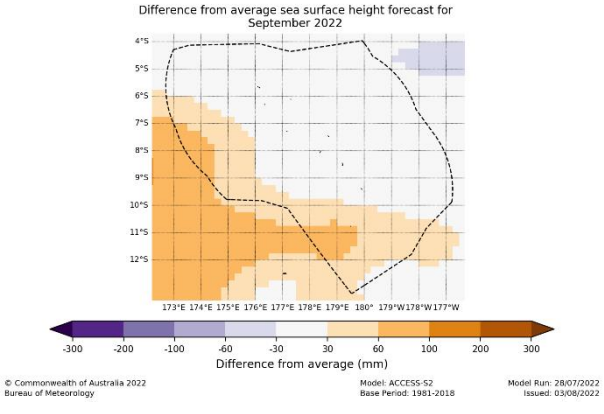
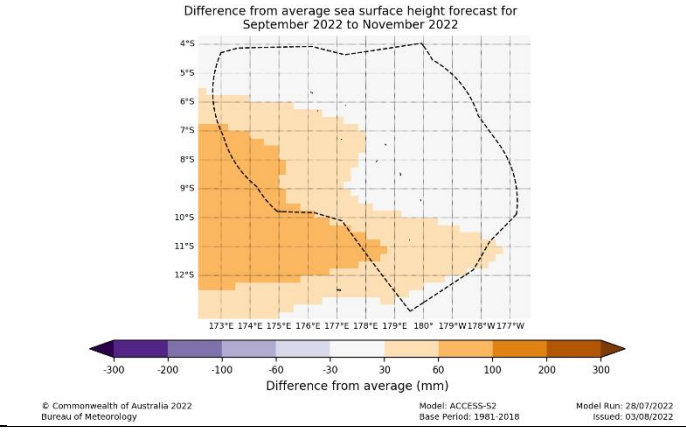
Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35





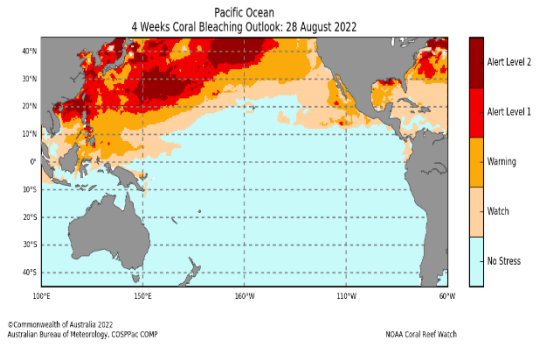
Part 2i. Monthly and Seasonal Outlooks for September and September to November 2022

Monthly: September	**Seasonal: September to November**
Monthly sea surface temperature (Image 5):	**Seasonal sea surface temperature (Image 6):**
	
Monthly sea level (Image 7):	**Seasonal sea level (Image 8):**
	
4-week Coral Bleaching (Image 9):	

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35



Summary Statement

Monthly and last three months: July 2022/May to July 2022 statement *(Highly significant changes)*

July: Rainfall was very much below normal across the country. Nui recorded its driest July on record, while Nanumea had its fourth-driest and Funafuti its fifth-driest.

May to July: Very dry across the country in the last three months, with all stations recording significantly below normal rainfall. Nanumea had its driest May-July on record.

Part 1i. Monthly and Seasonal Outlooks for September and September to November 2022

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

Rainfall for September and September to November is very likely to be below normal across the country.

The monthly and seasonal outlooks for maximum temperature show below normal is likely at Nanumea and Nui, near-normal likely at Funafuti, and above normal at Niulakita.

The minimum temperature outlooks are the same for Nanumea, Funafuti and Niulakita, but at Nui near-normal is the most likely outcome.

Part 2: Recent Ocean summary statement

Monthly and last three months: July/May to July 2022 *(Highly significant changes)*

For July 2022 and last three months, Tuvalu experienced normal SST conditions. The sea level was about 50-150mm above normal for Tuvalu in July 2022.

Coral Bleaching status in the last month was 'No Stress' for the whole group of Tuvalu.

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

Part 2i. Monthly and Seasonal Outlooks for September and September to November 2022

Ocean Variable statement *(Highly significant changes)*

Monthly and seasonal sea-surface temperature outlooks indicate below normal (-0.4 to –1.2 degrees Celsius) is very likely for the northern group, with near-normal SST differences for the central and southern groups of Tuvalu.

The sea level anomaly forecasts for September and September to November reveals near normal to above normal anomalies ranging from -30 to +100 mm for both groups further west to the southern part of Tuvalu EEZ.

Coral bleaching outlook for Tuvalu reveals no thermal stress for the next four weeks.

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

Product	Date: July 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
EAR Watch		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
Monthly Climate Briefing		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
Ocean Outlook		MET Staff	22	17	5
		Disaster Dept	2	2	
		TRC	2	1	1
		TuCAN	1	1	

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

		Agriculture All Civil Servants All Kaupule Members	2		2
Climate data request					
		Total	**116**	**84**	**32**

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35