Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 177

Country: Tuvalu

Part 1: Recent climate

TABLE 1: Monthly Rainfall

| Station (include data period) | Mar-2022 | Apr-2022 | May-2022 | | | | Rank |
| | | | Total (mm) | 33%tile | 67%tile | Median | |
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2022)	13.5	84.5	33.5	141.2	250.2	203.3	**2/82**
Nui (1946-2022)	218.8	125.7	210.2	148.6	218.1	182.2	48/77
Funafuti (1933-2022)	388.3	65.5	312.2	197.8	262.9	230.5	73/90
Niulakita (1953-2022)	368.4	166.9	151.4	175.1	249.0	208.0	18/70

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

| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
	Rainfall (mm)					
Nanumea (1941-2022)	131.5	Below normal	542.1	881.9	772.6	**2/82**
Nui (1946-2022)	554.7	Below normal	566.2	855.4	705.0	25/77
Funafuti (1933-2022)	766.0	Normal	677.9	925.7	802.0	42/90
Niulakita (1953-2022)	686.7	Normal	677.5	918.0	831.8	25/70

NB: The X LEPS % score has been categorised as follows:
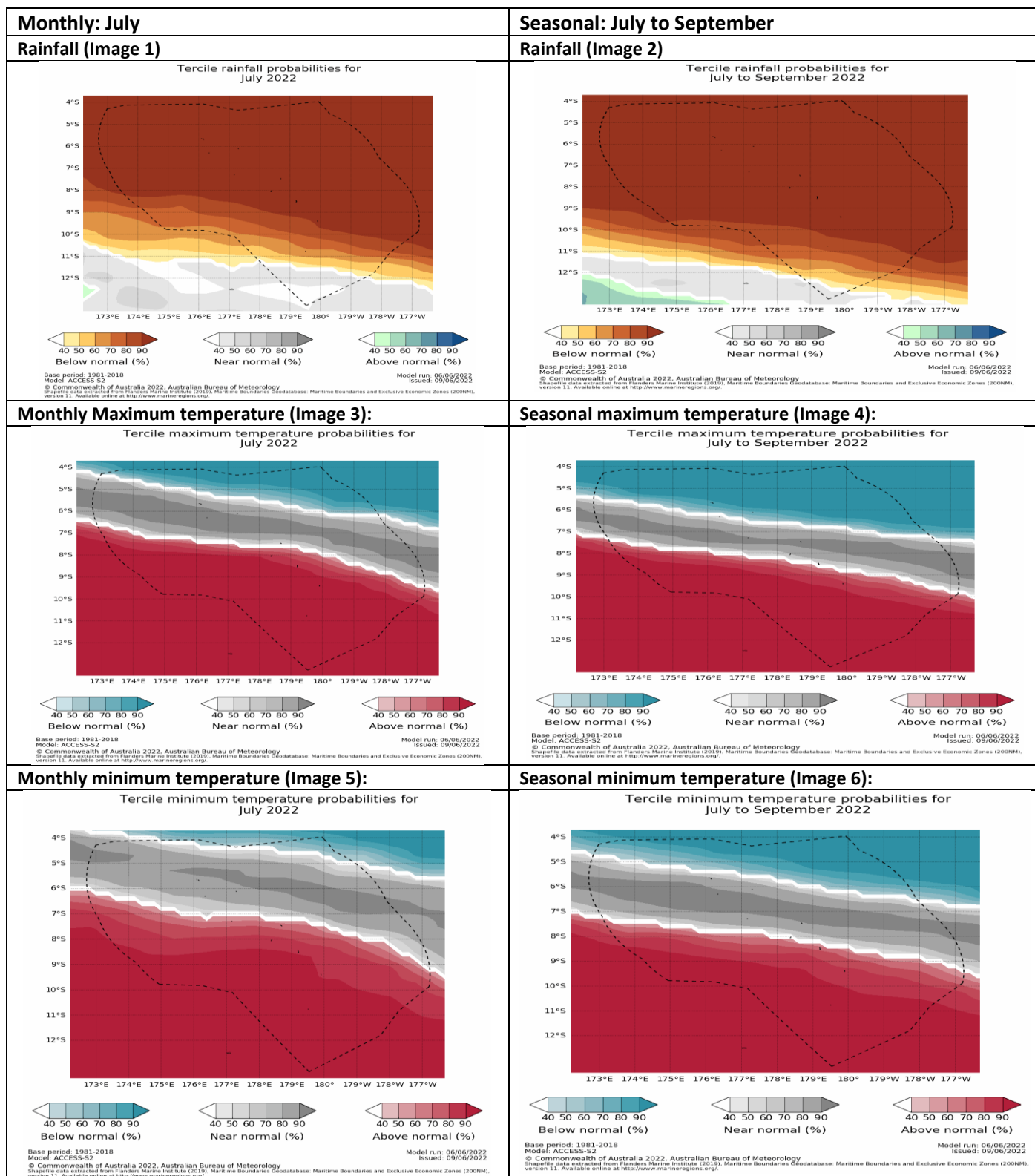
Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

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

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

Monthly: July	Seasonal: July to September
Rainfall (Image 1)	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:

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

Part 2: Recent Ocean summary statement

Monthly: May 2022

Monthly: May	Last three months: March to May 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:

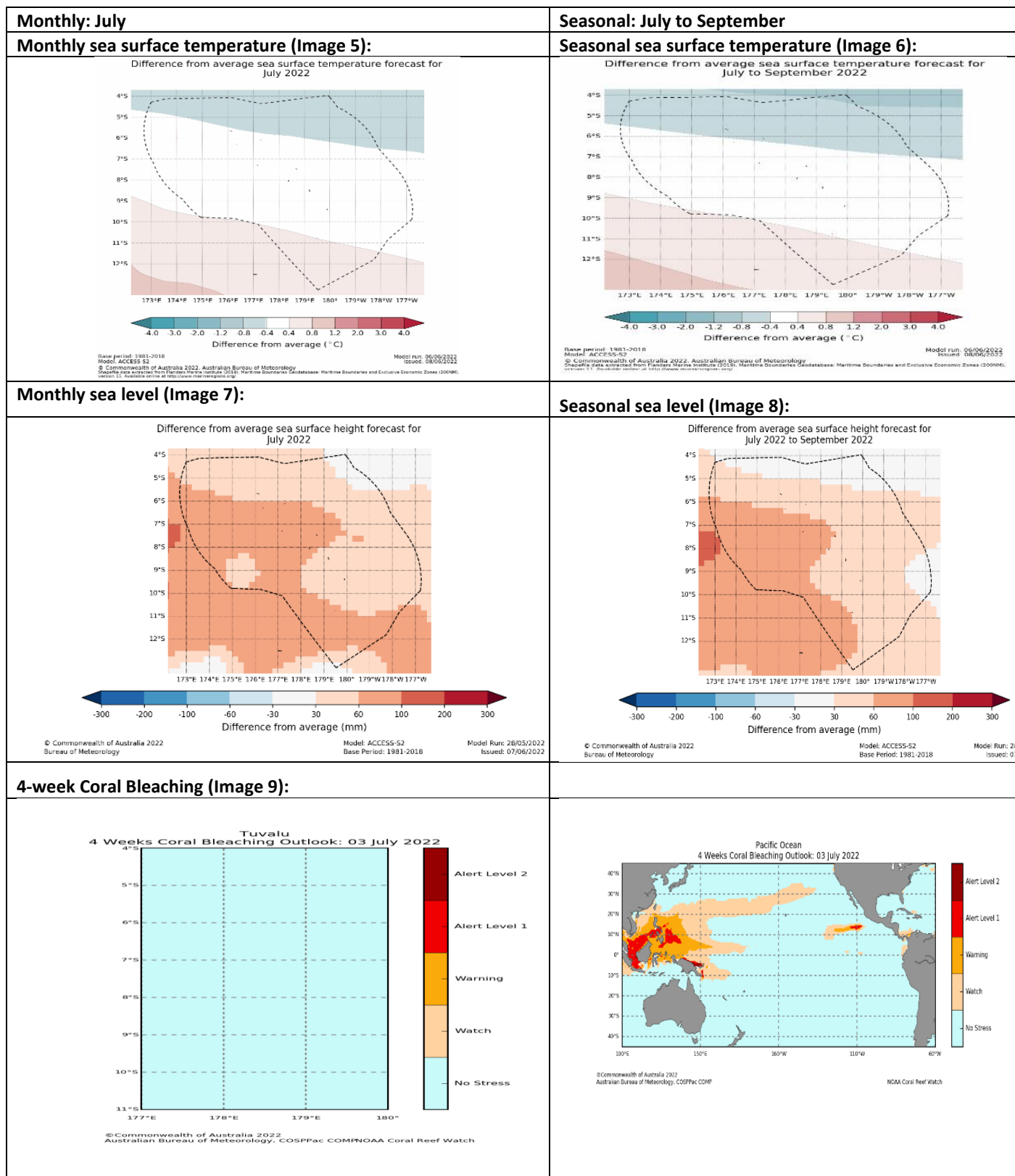Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X < 15   High: 15≤ X < 25

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

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

Monthly: July	Seasonal: July to September
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:

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Summary Statement

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

Below normal rainfall was observed at Nanumea and Niulakita, while Nui observed normal rainfall, and Funafuti was above normal rainfall during the month of May. Nanumea recorded its 2 driest May on record.

During March to May, Nanumea and Nui recorded as below normal rainfall, while Funafuti and Niulakita recorded normal rainfall. Nanumea recorded its 2 driest March to May on record.

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

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

Monthly rainfall outlook for Tuvalu for July is very likely to below normal rainfall for all stations. For the coming season July to September, the outlook for Tuvalu is very likely to below normal rainfall.

Monthly outlook for seasonal temperature is very likely to below normal for Nanumea, Nui is near normal, while Niulakita and Funafuti is very likely to above normal temperature.

Part 2: Recent Ocean summary statement

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

For May 2022 and March to May 2022, Tuvalu Island are experiencing normal SST conditions. The sea level conditions was above normal for Tuvalu with sea level differences of 100 – 200mm for April 2022.

Coral Bleaching alert status is mostly no thermal stress with watch for southern and northwest Tuvalu.

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

The monthly and seasonal sea surface temperature outlook reveals near normal conditions for Tuvalu for July and July to September.

Ocean Variable statement *(Highly significant changes)*

The monthly and seasonal sea surface temperature reveals near normal conditions for Tuvalu.

The sea level anomaly forecast reveals near normal conditions for the northern part of Tuvalu, with the central and southern group forecast to experience 30 – 100 sea level difference.

Coral bleaching outlook status is 'No Stress' for Tuvalu group.

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

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

Product	Date: May 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	
		Agriculture	2		2
		All Civil Servants			
		All Kaupule Members			
Climate data request		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			
		Total	**145**	**105**	**40**

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

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