

Country: Tuvalu

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2024	Jul-2024	Aug-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Nanumea (1941-2024)	257.7	307.5	191.5	139.9	212.3	184.4	43/83
Nui (1946-2024)	429.1	206.0	291.9	137.0	263.1	188.9	59/78
Funafuti (1933-2024)	447.7	285.8	502.6	183.8	292.2	217.8	87/92
Niulakita (1953-2024)	420.1	279.6	307.2	147.1	259.8	219.1	56/72

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

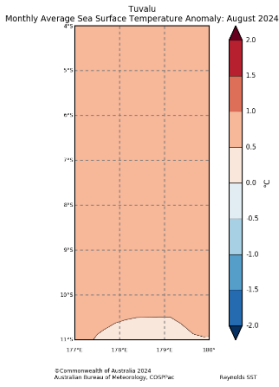
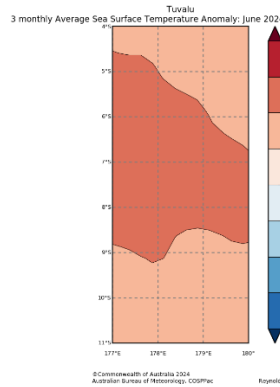
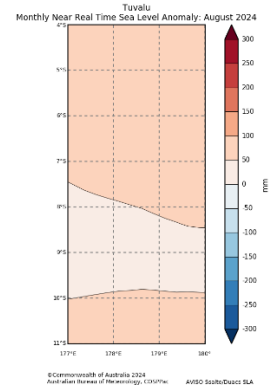
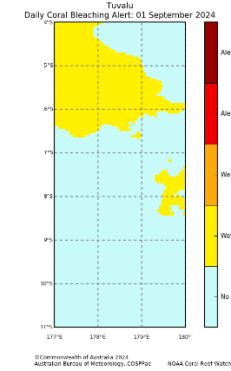
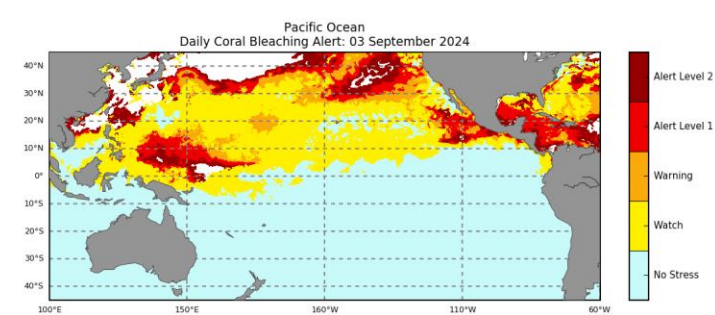
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Nanumea (1941-2024)	756.7	Above normal	410.0	698.7	527.6	64/83
Nui (1946-2024)	927.0	Above normal	483.5	728.0	646.0	70/78
Funafuti (1933-2024)	1236.1	Above normal	578.9	798.5	705.2	89/92
Niulakita (1953-2024)	1006.9	Above normal	537.5	752.1	615.1	64/72

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

[illegible]

Part 2: Recent Ocean Observation

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

Monthly: August 2024	Last three months: June to August 2024:
Sea Surface Temperature (Image 1): <div><p>Tuvalu Monthly Average Sea Surface Temperature Anomaly: August 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p></div>	Sea Surface Temperature (Image 4): <div><p>Tuvalu 3 monthly Average Sea Surface Temperature Anomaly: June 2024 to August 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p></div>
Sea level (Image 2): <div><p>Tuvalu Monthly Near Real Time Sea Level Anomaly: August 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac AVISO SeaWiFS/SeaWIFS SLA</p></div>	
Daily coral bleaching alert (Image 3): <div><p>Tuvalu Daily Coral Bleaching Alert: 01 September 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p></div>	<div><p>Pacific Ocean Daily Coral Bleaching Alert: 03 September 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p></div>

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

Monthly: October		Seasonal: October to December	
Monthly sea surface temperature (Image 5):		Seasonal sea surface temperature (Image 6):	
<p>Difference from average sea surface temperature forecast for October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supplied by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>		<p>Difference from average sea surface temperature forecast for October to December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supplied by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>	
Monthly sea level (Image 7):		Seasonal sea level (Image 8):	
<p>Difference from average sea surface height forecast for October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supplied by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>		<p>Difference from average sea surface height forecast for October to December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 04/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supplied by COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019)</p>	
4-week Coral Bleaching (Image 9):			
<p>Tuvalu 4 Weeks Coral Bleaching Outlook: 29 September 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>		<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 29 September 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	

Summary Statement

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

Rainfall for August and over June to August was mainly above normal, except at Nanumea which recorded near-normal August rainfall.

Funafuti had its sixth highest August rainfall, and its fourth wettest June to August on record.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for October and over October to December is likely or very likely to be below normal over Northern and Central groups, including Funafuti. The October outlook offers little guidance for parts of southern Tuvalu, including Niulakita, but October to December rainfall is likely to be near-normal for this region.

Maximum and minimum temperatures during October and averaged over October to December, are very likely to be above normal over Tuvalu.

Part 2: Recent Ocean summary statement

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

August ocean temperatures around Tuvalu were 0.5 to 1.0°C above normal.

Averaged over June to August, ocean temperatures around Tuvalu were 0.5 to 1.5°C above normal.

August sea levels over parts of North and Central were 50mm to 100mm above normal, while near normal for some parts of Southern groups Tuvalu.

Coral Bleaching Alert on Watch over Northern Groups and No thermal stress at central and southern groups Tuvalu.

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

Ocean Variable statement

October ocean temperatures around Tuvalu are predicted to be 0.4 to 0.8°C above normal and near normal for some parts of North-East Tuvalu EEZ.

Averaged over October to December, ocean temperatures around Northern groups are predicted to be -0.4 to 0.4°C near normal. In Central and Southern groups Tuvalu ocean temperatures are predicted to be 0.4 to 0.8°C above normal.

Octobers and averaged over October to December Sea levels around Northern and Central parts are predicted to be -30mm to 30mm near normal and 30 to 100mm below normal in the Southern groups Tuvalu.

Coral Bleaching Outlook for the next four weeks are predicted to be No stress over Tuvalu.

IN BRIEF for Teleconference

- Rainfall was above normal for August and June to August, except at Nanumea where rainfall was near-normal during August.
- Rainfall is likely or very likely to be below normal over Northern and Central groups in October and over October to December.
- SSTs were above normal for August and June to August. The outlook shows above normal to near normal SSTs for the next one and three months.
- Sea-surface heights (SSH) were above normal to near normal for August. Near-normal to below normal sea surface heights are predicted for October and October to December.
- Coral Bleaching Outlook are predicted to be No stress over Tuvalu.

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

Product	Date: August 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Disability	Age group	Comments (If there are comments from you Stakeholders)
Climate Bulletin	26/08/24	MET Staff Disaster Dept TRC TuCAN Agriculture Head Quarter (PWIDW) All-Island Council Permanent Sec Gov Fisheries Dept Health Dept TEC Dept Environment Climate- Change Tuvalu- Maritime School	30 2 2 1 3 2 14 1 2 1 1 1 1 1 1	18 1 1 2 1 10 1 1 1 1 2 1 1	12 1 2 1 4 1 1 1 1		20-50 30-40 25-50 40-50 35-40 35-50 35-50 45-50 35-55 35-40 45-55 45-50 30-40 30-35 40-55	
EAR Watch	26/08/24	MET Staff Disaster Dept TRC TuCAN Agriculture Head Quarter (PWIDW) All-Island Council Permanent Sec Gov Fisheries Dept Health Dept TEC Dept Environment Climate- Change Tuvalu- Maritime School	30 2 2 1 3 2 14 1 2 1 1 1 1 1 1	18 1 1 2 1 10 1 1 1 1 2 1 1	12 1 2 1 4 1 1 1 1		20-50 30-40 25-50 40-50 35-40 35-50 35-50 45-50 35-55 35-40 45-55 45-50 30-40 30-35 40-55	

Monthly Climate Briefing	20/08/24	Climate and Forecast Divisions	5	2	3			
Ocean Outlook	26/08/24	MET Staff	30	18	12		20-50	
		Disaster Dept	2	1	1		30-40	
		TRC	2		2		25-50	
		TuCAN	1	1			40-50	
		Agriculture	3	2	1		35-40	
		Head Quarter (PWIDW)	2	1	1		35-50	
		All-Island Council	14	10	4		35-50	
		Permanent Sec	1	1			45-50	
		Gov	2	1	1		35-55	
		Fisheries Dept					35-40	
		Health Dept	1	1			45-55	
		TEC Dept	2	2			45-50	
		Environment	1				30-40	
		Climate-Change	1	1	1		30-35	
		Tuvalu-Maritime School	1	1			40-55	
Climate data request								
Total			194	122	72			