

Country: Marshall Islands

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)				
Majuro (1954-2024)	277.4	224.8	169.4	260.0	320.9	286.6	5/71
Kwajalein (1945-2024)	258.3	278.9	214.4	194.1	295.6	237.8	34/80

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

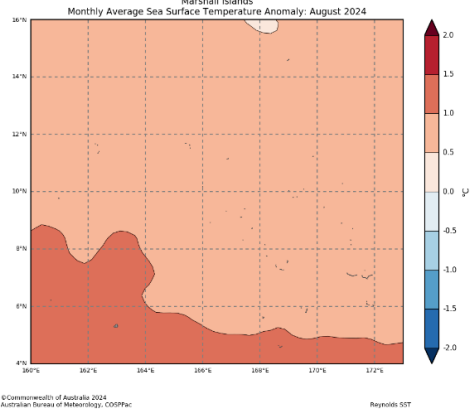
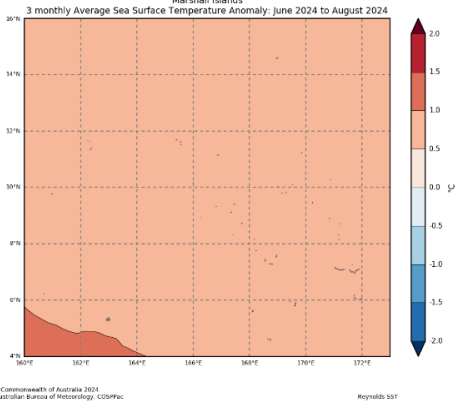
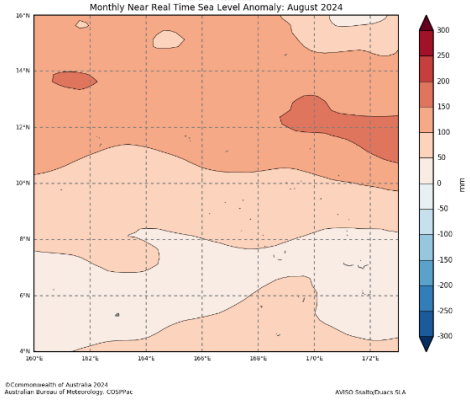
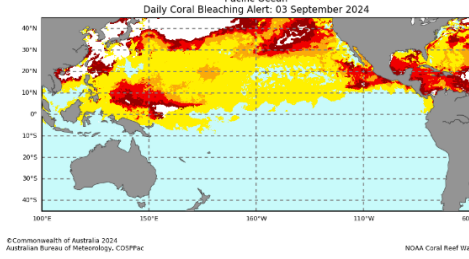
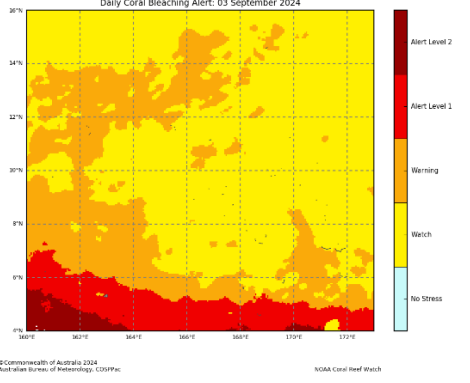
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	671.6	Below normal	792.6	961.3	872.2	7/71
Kwajalein (1945-2024)	751.6	Normal	659.4	814.1	723.4	45/80

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

Monthly: October	Seasonal: October to December
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Tercile rainfall probabilities for October to December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Tercile maximum temperature probabilities for October to December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Tercile minimum temperature probabilities for October to December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/09/2024 Issued: 05/09/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p>-- EEZ border V11 (Flanders Marine Institute, 2019).</p>

Part 2: Recent Ocean Observation

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

<div>Monthly: August 2024</div> <div>Sea Surface Temperature (Image 1):</div> <div><p>Marshall Islands</p><p>Monthly Average Sea Surface Temperature Anomaly: August 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Raynolds SST</p></div>	<div>Last three months: June to August 2024:</div> <div>Sea Surface Temperature (Image 4):</div> <div><p>Marshall Islands</p><p>3 monthly Average Sea Surface Temperature Anomaly: June 2024 to August 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Raynolds SST</p></div>
<div>Sea level (Image 2):</div> <div><p>Marshall Islands</p><p>Monthly Near Real Time Sea Level Anomaly: August 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>AVISO Daily/2h Sea SLA</p></div>	
<div>Daily coral bleaching alert (Image 3):</div> <div><p>Pacific Ocean</p><p>Daily Coral Bleaching Alert: 03 September 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Marshall Islands</p><p>Daily Coral Bleaching Alert: 03 September 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>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):
<div><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, Australian Bureau of Meteorology, COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><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, Australian Bureau of Meteorology, COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div><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, Australian Bureau of Meteorology, COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>	<div><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, Australian Bureau of Meteorology, COSPPac</p><p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p></div>
4-week Coral Bleaching (Image 9):	
<div><p>Pacific Ocean</p><p>4 Weeks Coral Bleaching Outlook: 29 September 2024</p><p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	<div><p>Marshall Islands</p><p>4 Weeks Coral Bleaching Outlook: 29 September 2024</p><p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>

## Summary Statement

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

Rainfall was below normal at Majuro in August and over June to August, while Kwajalein reported near-normal rainfall for both periods. Majuro reported its fifth driest August on record, and its seventh driest June to August period.

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

### Monthly /Seasonal rainfall and temperature Outlook statements

October rainfall is likely to be near-normal over most of the northern atolls and some of the southern atolls. For most of RMI, including Kwajalein, the outlook offers little guidance, although Majuro is in a small region where below normal rainfall is likely.

The rainfall for October to December is likely or very likely to be above normal over most of the RMI. In the northernmost and southernmost atolls, near-normal rainfall is likely.

Maximum and minimum temperatures during October and averaged over October to December are very likely to be above normal across the RMI.

## Part 2: Recent Ocean summary statement

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

August and averaged over June to August, ocean temperatures across the RMI were 0.5 to 1.5°C above normal.

August sea levels around the central and southern waters were utmost 100mm above normal, excluding Majuro and nearby atolls where near normal sea levels were observed. In the northern atolls, sea levels around 100mm to 200mm above normal were observed.

There is a coral bleaching 'Alert Level 1' for the southernmost waters in the RMI.

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

### Ocean Variable statement

October's and averaged over October to December's ocean temperatures across the RMI are predicted to be 0.4 to 1.2°C above normal.

October's and averaged over October to December's sea levels in most of the RMI are predicted to be near normal.

Coral bleaching outlook is in 'Alert Level 2' for the southernmost waters in the RMI.

### IN BRIEF for Teleconference

- Rainfall was below normal at Majuro in August and over June to August, while Kwajalein reported near-normal rainfall for both periods. Majuro reported its fifth driest August on record, and its seventh driest June to August period.
- The rainfall outlook generally indicates little guidance for October, but above normal is likely or very likely for total rainfall over October to December.

- SSTs were near normal to above normal for August. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal in most of the RMI for August. Near-normal sea surface heights are predicted for October and October to December.
- Coral bleaching is in ‘Alert Level 2’ for the southernmost waters.

**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								
EAR Watch								
Monthly Climate Briefing	08/19/2024	Chief Secretary Office and National Disaster Management Office	7	4	3			
Ocean Outlook								
Climate data request								
Total			7	4	3			