

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 202

Country: Marshall Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2024	May-2024	Jun-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2024)	264.9	385.3	277.4	239.6	330.6	289.2	32/71
Kwajalein (1945-2024)	106.4	283.7	258.3	175.0	262.0	209.4	54/80

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

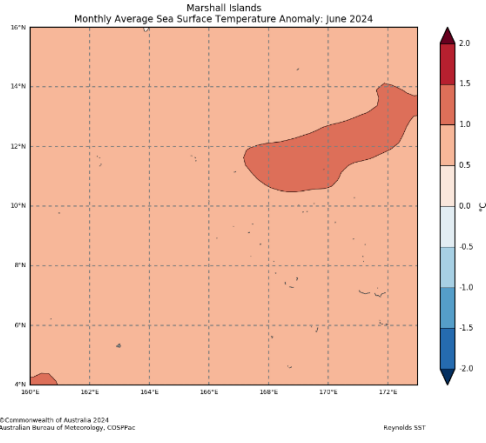
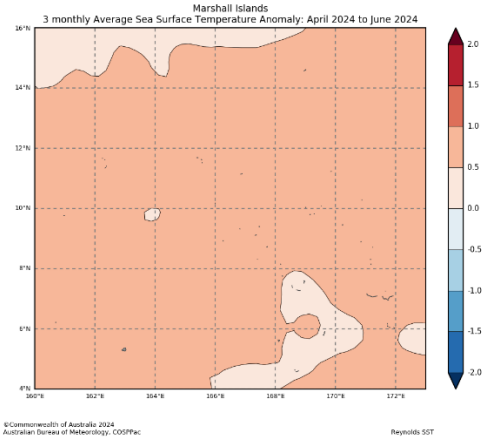
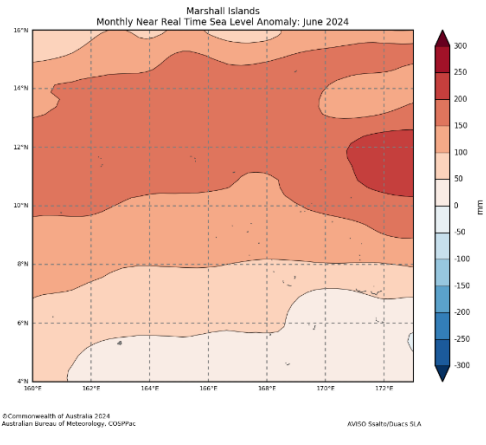
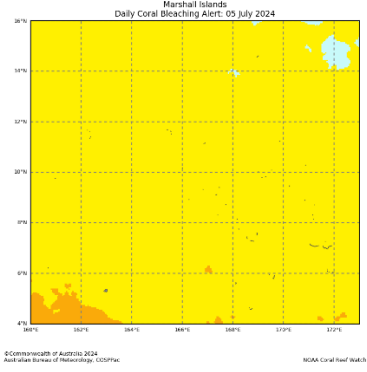
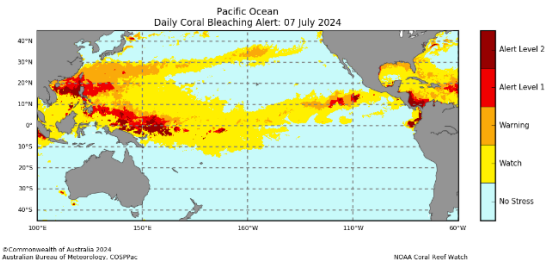
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	927.6	Normal	681.4	979.3	843.6	44/70
Kwajalein (1945-2024)	648.4	Normal	513.0	730.9	622.7	44/80

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

Monthly: August	Seasonal: August to October
Rainfall (Image 1)	Rainfall (Image 2)
<p style="text-align: center;">Tercile rainfall probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 04/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p style="text-align: center;">Tercile rainfall probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 04/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p style="text-align: center;">Tercile maximum temperature probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 04/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p style="text-align: center;">Tercile maximum temperature probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 04/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p style="text-align: center;">Tercile minimum temperature probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 04/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p style="text-align: center;">Tercile minimum temperature probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 04/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>

Part 2: Recent Ocean Observation

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

<p>Monthly: June 2024</p>	<p>Last three months: April to June 2024:</p>
<p>Sea Surface Temperature (Image 1):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac AVISO SeaWiFS/Duacs SIA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	 <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

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

Monthly: August	Seasonal: August to October
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 03/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, Australian Bureau of Meteorology, COSPPac -- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface temperature forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 03/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, Australian Bureau of Meteorology, COSPPac -- -- 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 August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 03/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, Australian Bureau of Meteorology, COSPPac -- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface height forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 01/07/2024 Issued: 03/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, Australian Bureau of Meteorology, COSPPac -- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
4-week Coral Bleaching (Image 9):	
<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>© Commonwealth of Australia 2024, Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>Marshall Islands 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>© Commonwealth of Australia 2024, Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Summary Statement

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

TMajuro and Kwajalein recorded near-normal rainfall for June and over April to June.

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

Monthly / Seasonal rainfall and temperature Outlook statements

Majuro's August rainfall is very likely to be above normal, while Kwajalein's is likely to be near-normal.

The rainfall for August to October is likely to be above normal for Majuro, and below normal for central to northern areas, including Kwajalein.

Maximum and minimum temperatures during August and average over August to October are likely or very likely to be above normal across the RMI.

Part 2: Recent Ocean summary statement

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

June ocean temperatures around the RMI were 0.5 to 1.0°C above normal. In a small area further north of Majuro and Kwajalein, the ocean temperatures were 1.0 to 1.5°C above normal.

Averaged over April to June, ocean temperatures around the RMI were also 0.5 to 1.0°C above normal.

June sea levels around the Marshall Islands were 50mm to 150mm above normal around both Majuro and Kwajalein and 150mm to 200mm further north of the islands.

Coral bleaching is at "Watch" status for most of the country.

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

Ocean Variable statement

August ocean temperatures around Majuro and Kwajalein are predicted to be 0.4 to 0.8°C above normal. The area south of Majuro and westward is predicted to be 0.8 to 1.2°C above normal.

Averaged over August to October, ocean temperatures around Majuro and Kwajalein are predicted to be 0.8 to 1.2°C above normal.

August and average over August to October, sea levels around the Marshall Islands are predicted to be -30mm to 30mm near-normal.

Coral bleaching outlook shows "Watch" status for most of the country.

IN BRIEF for Teleconference

- Rainfall was normal for June and April to June at both Majuro and Kwajalein.
- The rainfall outlook for Majuro is likely to be above normal and normal at Kwajalein in August. Similar conditions at both stations over the August to October period.
- SSTs were near-normal to above normal for June and from April to June. The outlook shows above normal SSTs for the next one and three months.

- Sea-surface heights (SSHs) were above normal for June. For August and averaged over August to October, sea-surface heights are predicted to be near-normal to above normal.
- Coral bleaching outlook shows Watch status for most of the country.

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

Product	Date: June 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin						
EAR Watch						
Monthly Climate Briefing	05/21/2024	Office of the Chief Secretary the National Disaster Management Office (NDMO)	6	4	2	
Ocean Outlook						
Climate data request						
Total			6	4	2	