

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 203

Country: Marshall Islands

Part 1: Recent climate

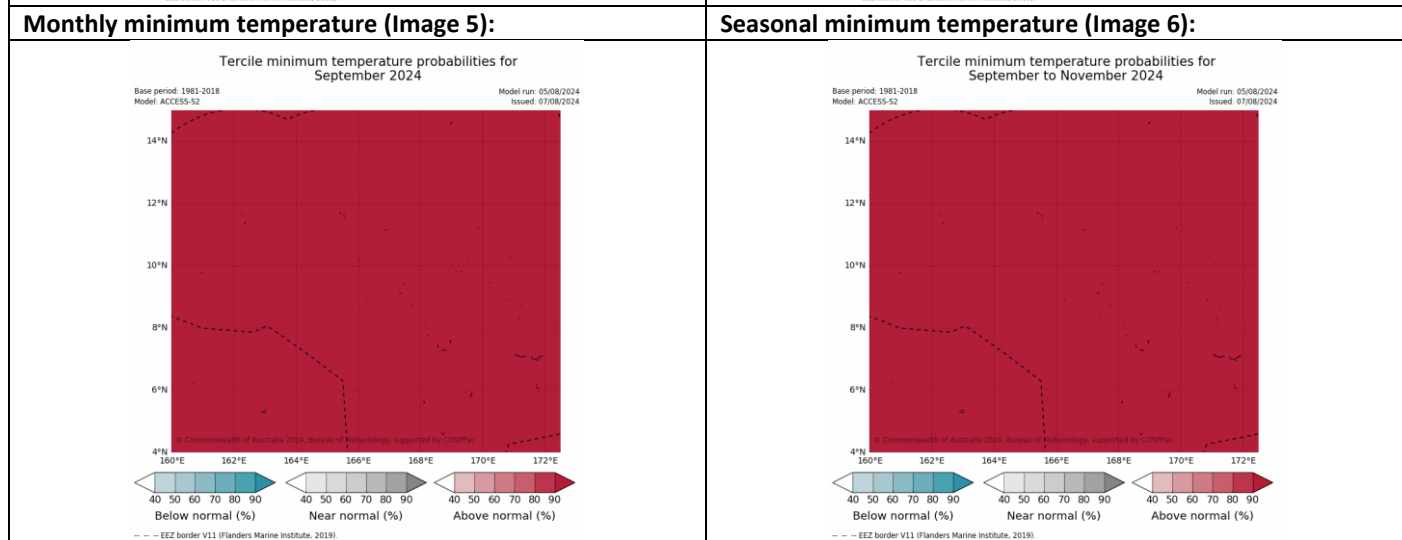
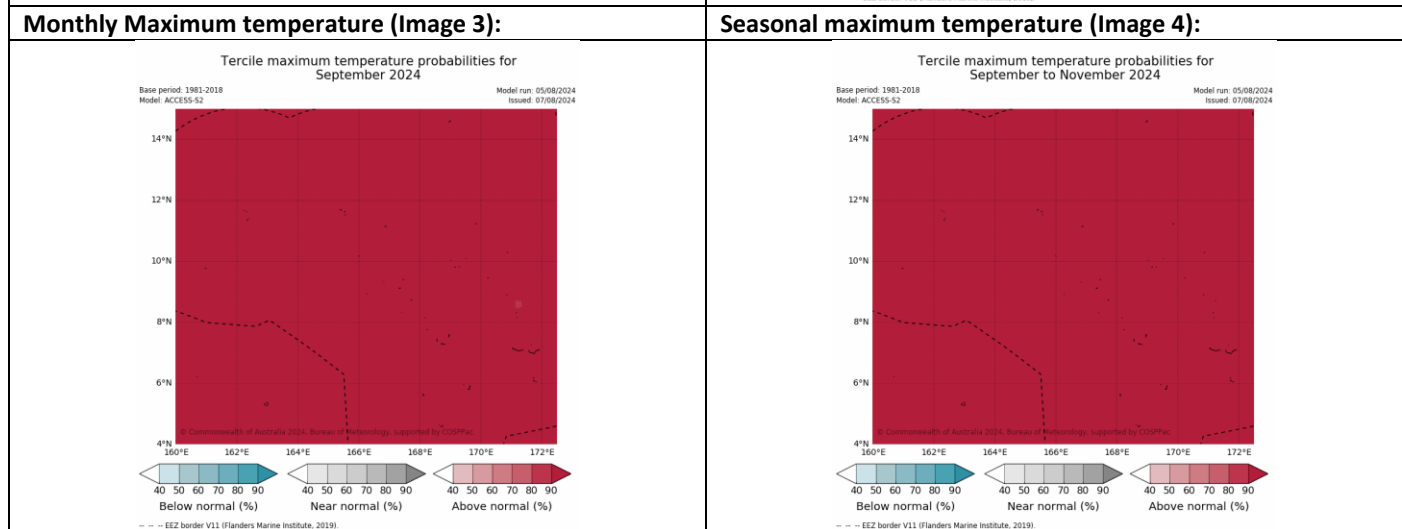
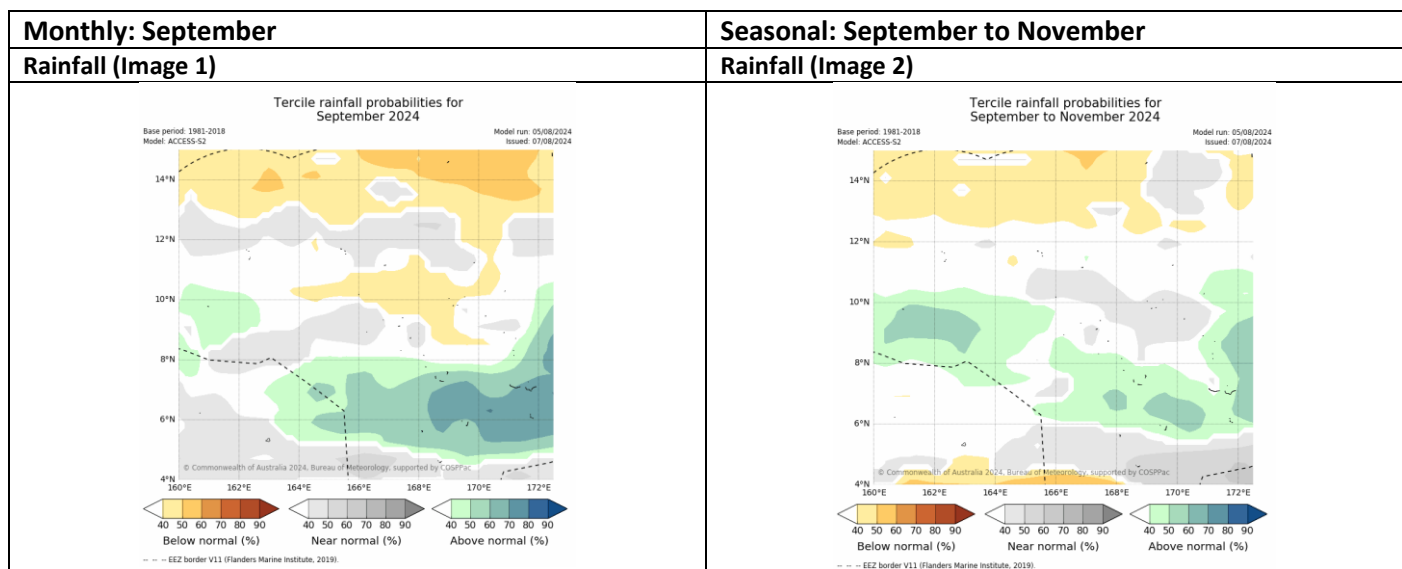
TABLE 1: Monthly Rainfall

Station (include data period)	May-2024	Jun-2024	Jul-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2024)	385.3	277.4	224.8	258.4	353.4	300.8	13/71
Kwajalein (1945-2024)	283.7	258.3	278.9	222.8	277.3	248.9	54/80

TABLE 2: Three-month Total Rainfall for May to July 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	887.5	Normal	779.4	951.1	845.9	42/70
Kwajalein (1945-2024)	820.9	Above normal	582.2	801.3	698.1	61/80

Part 1i. Monthly and Seasonal Outlooks for September and September to November 2024

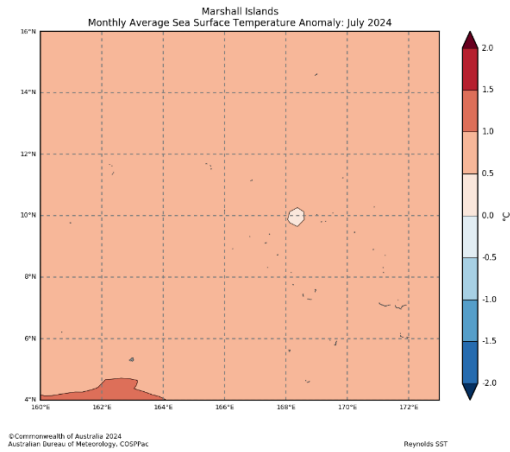


Part 2: Recent Ocean Observation

Monthly/Three months: July 2024 and May to July 2024

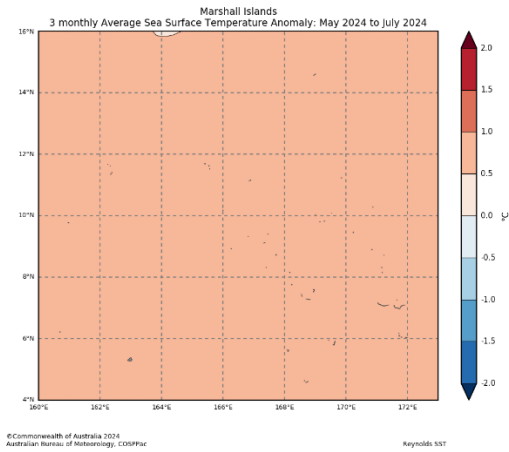
Monthly: July 2024

Sea Surface Temperature (Image 1):

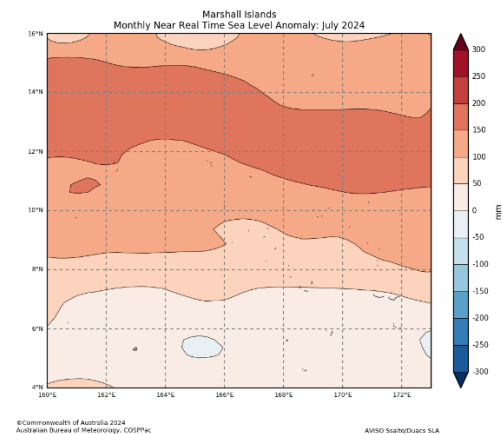


Last three months: May to July 2024:

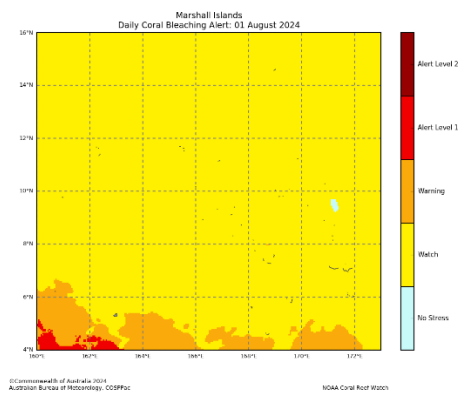
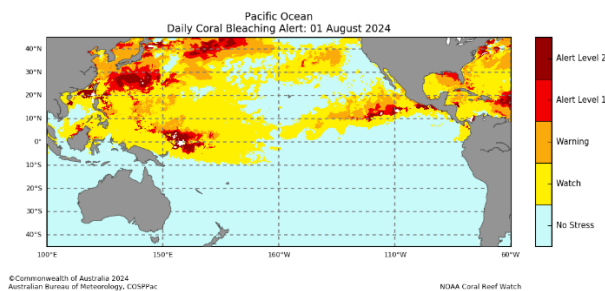
Sea Surface Temperature (Image 4):



Sea level (Image 2):



Daily coral bleaching alert (Image 3):



Part 2i. Monthly and Seasonal Outlooks for September and September to November 2024

Monthly: September	Seasonal: September to November
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for September 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/08/2024 Issued: 07/08/2024</p> <p>18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N</p> <p>158°E 160°E 162°E 164°E 166°E 168°E 170°E 172°E 174°E</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, Australian COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (°C)</p>	<p>Difference from average sea surface temperature forecast for September to November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/08/2024 Issued: 07/08/2024</p> <p>18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N</p> <p>158°E 160°E 162°E 164°E 166°E 168°E 170°E 172°E 174°E</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, Australian COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (°C)</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<p>Difference from average sea surface height forecast for September 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/08/2024 Issued: 07/08/2024</p> <p>18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N</p> <p>158°E 160°E 162°E 164°E 166°E 168°E 170°E 172°E 174°E</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, Australian COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (mm)</p>	<p>Difference from average sea surface height forecast for September to November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/08/2024 Issued: 07/08/2024</p> <p>18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N</p> <p>158°E 160°E 162°E 164°E 166°E 168°E 170°E 172°E 174°E</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, Australian COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> <p>--- Difference from average (mm)</p>
4-week Coral Bleaching (Image 9):	
<p>4 Weeks Coral Bleaching Outlook: 11 August 2024</p> <p>Pacific Ocean</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>4 Weeks Coral Bleaching Outlook: 11 August 2024</p> <p>Marshall Islands</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: July 2024/May to July 2024 statement

Majuro recorded below rainfall while Kwajalein recorded above normal rainfall for July. During May to July, Majuro recorded near normal rainfall while Kwajalein recorded above normal rainfall.

Part 1i. Monthly and Seasonal Outlooks for September and September to November 2024

Monthly / Seasonal rainfall and temperature Outlook statements

Majuro's September rainfall is likely to be above normal, while Kwajalein's is likely to be near normal.

The rainfall for September to November is likely to be above normal for Majuro, and near normal for Kwajalein, and below normal for islands further north of the country.

Maximum and minimum temperatures during September and average over September to November are likely or very likely to be above normal across the Marshall Islands.

Part 2: Recent Ocean summary statement

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

July and averaged over May to July, ocean temperatures across the Marshall Islands were 0.5 to 1.0°C above normal.

July sea levels around the Marshall Islands were utmost 100mm above normal around Majuro and southern islands, 50mm to 150mm around Kwajalein and other central islands, and 150mm to 250mm further north of the islands.

Coral bleaching is at "Watch" status across the country.

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

Ocean Variable statement

September ocean temperatures around Majuro and Kwajalein are predicted to be 0.4 to 0.8°C above normal. The areas southwest to northwest of Majuro and Kwajalein are predicted to be 0.8 to 1.2°C above normal.

Averaged over September to November, ocean temperatures around Majuro and Kwajalein and the western islands are predicted to be 0.8 to 1.2°C above normal. At the north-eastern part of the country, ocean temperatures are predicted to be 0.4 to 0.8°C above normal.

September and averaged over September to November, 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, except for the central east part, the outlook shows "No Stress" status.

IN BRIEF for Teleconference

- Rainfall was below normal for July and near normal for May and July at Majuro. For Kwajalein, rainfall was above normal in July and during May to July.
- The rainfall outlook for Majuro is likely to be above normal and near normal at Kwajalein in September. Similar conditions at both stations over the September to November period.

- SSTs were above normal for July and from May to July. The outlook shows near-normal to above-normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were near-normal to above normal for July. For September and averaged over September to November, sea-surface heights are predicted to be near-normal.
- Coral bleaching outlook shows Watch status for most of the country, except for the central east part of the country, outlook shows No Stress status.

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

Product	Date: July 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	07/12/2024	NDMO, Red Cross	2	1	1			
Monthly Climate Briefing	07/12/2024	Office of the Chief Secretary the National Disaster Management Office (NDMO)	6	4	2			
Ocean Outlook								
Climate data request								
Total			8	5	3			