

Country: Marshall Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2024	Aug-2024	Sep-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2024)	224.8	169.4	391.2	262.1	363.0	306.8	51/71
Kwajalein (1945-2024)	278.9	214.4	198.6	229.3	298.5	266.8	15/80

TABLE 2: Three-month Total Rainfall for July to September 2025

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	785.4	Below normal	829.7	972.9	900.7	18/71
Kwajalein (1945-2024)	691.9	Below normal	721.1	846.9	773.4	23/80

Part 1i. Monthly and Seasonal Outlooks for November and November to January 2025

Monthly: November	Seasonal: November to January
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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 November 2024 to January 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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 November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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 November 2024 to January 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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 November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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 November 2024 to January 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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: September 2024 and July to September 2024

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

Part 2i. Monthly and Seasonal Outlooks for November and November to January 2025

Monthly: November	Seasonal: November to January
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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, COSPPac</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface temperature forecast for November 2024 to January 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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, 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 November 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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, COSPPac</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface height forecast for November 2024 to January 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 05/10/2024 Issued: 07/10/2024</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, COSPPac</p> <p>-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p>
4-week Coral Bleaching (Image 9):	
<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 20 October 2024</p> <p>40°N 30°N 20°N 10°N 0° 10°S 20°S 30°S 40°S</p> <p>120°E 150°E 180°W</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Marshall Islands 4 Weeks Coral Bleaching Outlook: 20 October 2024</p> <p>18°N 16°N 14°N 12°N 10°N 8°N 6°N 4°N 2°N</p> <p>160°E 162°E 164°E 166°E 168°E 170°E 172°E 174°E</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: September 2024/July to September 2024 statement**

The rainfall for September was above normal for Majuro, while below normal recorded at Kwajalein. For the past three months, rainfall was below normal for both stations.

## **Part 1i. Monthly and Seasonal Outlooks for November and November to January 2025**

### **Monthly /Seasonal rainfall and temperature Outlook statements**

The rainfall for November is likely or very likely to be above normal across the RMI except for Majuro and neighbouring atoll, where the outlook offer little guidance. In the southernmost RMI the outlook shows likely or very likely to be below normal.

The rainfall for November to January is likely or very likely to be above normal across the Marshall Islands.

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

## **Part 2: Recent Ocean summary statement**

### **Monthly and last three months: September 2024/July to September 2024**

September and averaged over July to September ocean temperatures around FSM were utmost 1.5°C above normal.

September sea levels around the Marshall Islands were 50mm to 150mm above normal.

There was a coral bleaching 'Alert Levels 1 and 2' for the southern Marshall Islands and WARNING status for the rest of the Marshall Islands.

## **Part 2i. Monthly and Seasonal Outlooks for November and November to January 2025**

### **Ocean Variable statement**

November and averaged over November to January ocean temperatures across the Marshall Islands are predicted to be 0.4 to 1.2°C above normal.

November's sea levels around the Marshall Islands are predicted to be near normal. In the northernmost and central Marshall Islands, the sea levels are predicted to be 30mm to 60mm above normal.

Averaged over November to January, sea levels around the Marshall Islands are predicted to be near normal except for Majuro and neighbouring atoll where sea levels are predicted to be 30mm to 60mm below normal.

Coral bleaching outlook shows 'Alert Levels 1 and 2' are in effect for the southern Marshall Islands.

## IN BRIEF for Teleconference

- Rainfall was above normal for Majuro, while below normal for Kwajalein. July to September period, below normal was recorded at both stations.
- The rainfall outlook generally indicates above normal most likely in November and November to January.
- SSTs were above normal for September and averaged over July to September. The SSTs outlook for November and the next three months are predicted to be 0.4 to 1.2°C above normal.
- Coral bleaching was at 'Alert Level 1 and 2' for southern RMI and was at 'WARNING' status for most of the RMI. The Coral bleaching outlook is in 'Alert Level 2' for the southern RMI.

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

Product	Date: September 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	09/20/2024	Chief Secretary Office and National Disaster Management Office	7	5	2			
Ocean Outlook								
Climate data request								
<b>Total</b>			<b>7</b>	<b>5</b>	<b>2</b>			