

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 206

Country: Marshall Islands

Part 1: Recent climate

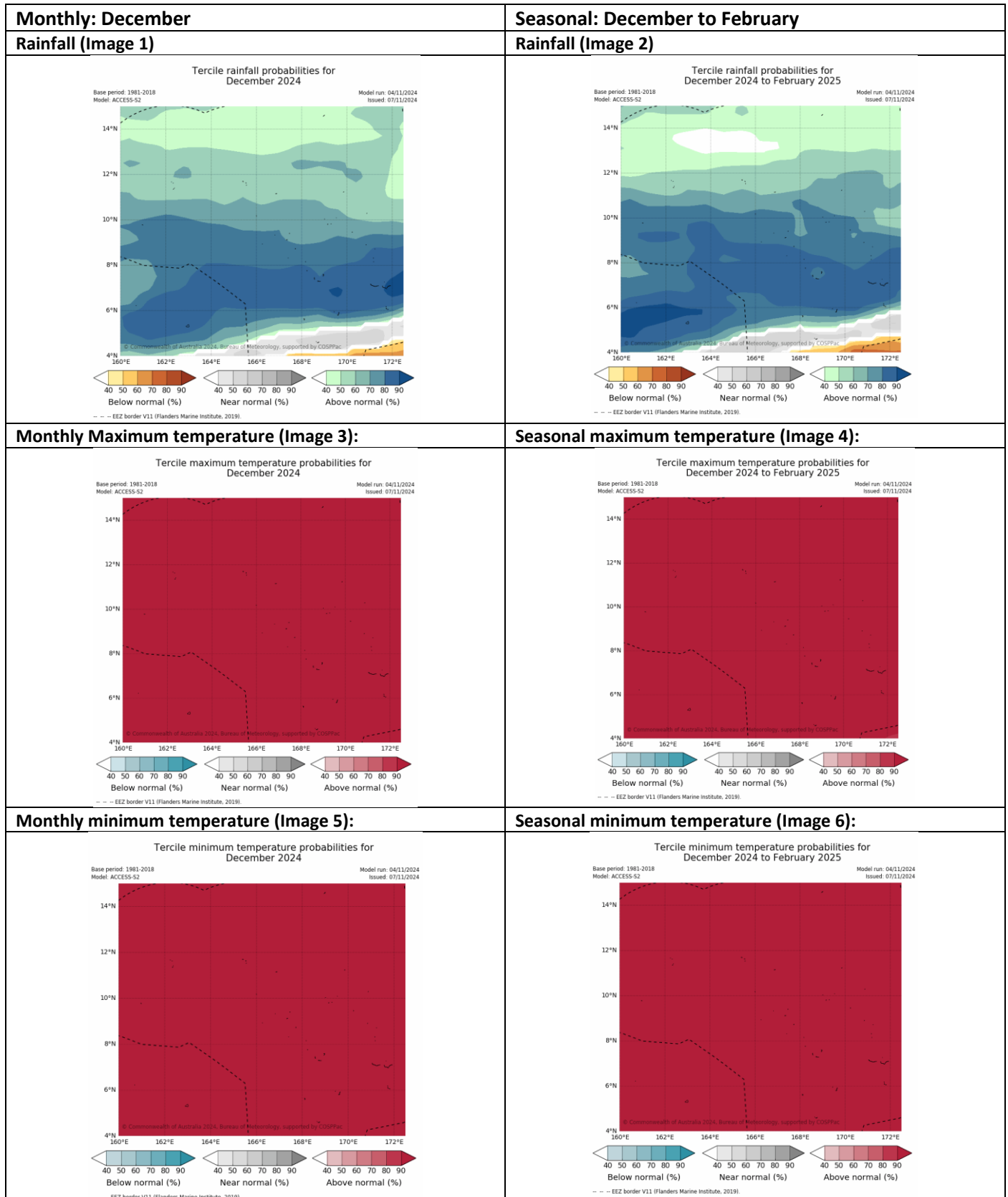
TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2024	Sep-2024	Oct-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2024)	169.4	391.2	377.2	292.1	388.5	353.8	17/71
Kwajalein (1945-2024)	214.1	198.6	279.5	256.4	348.7	295.8	42/80

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

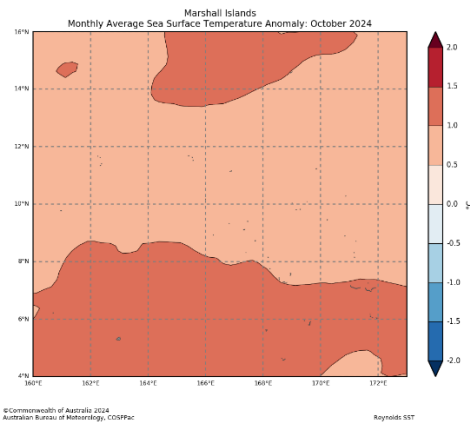
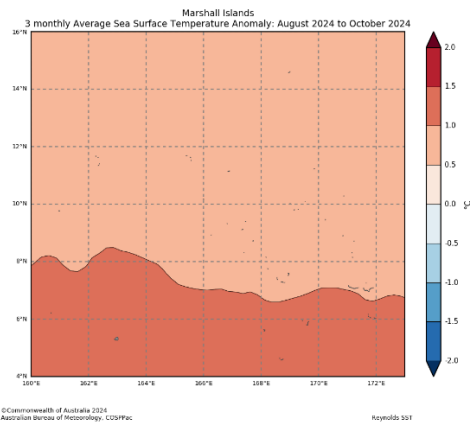
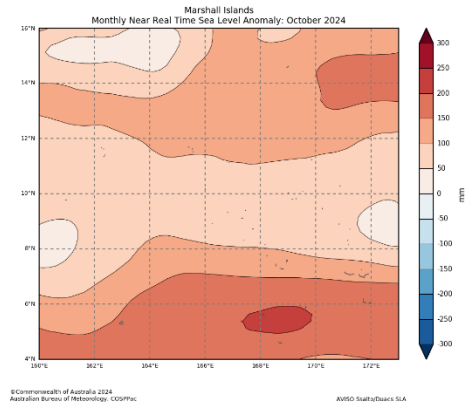
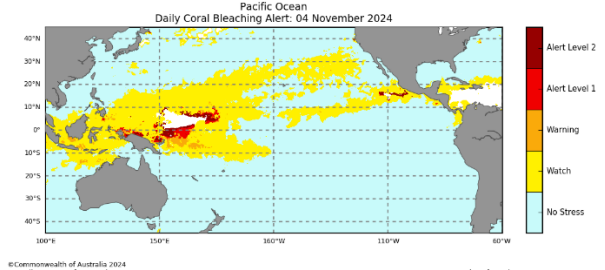
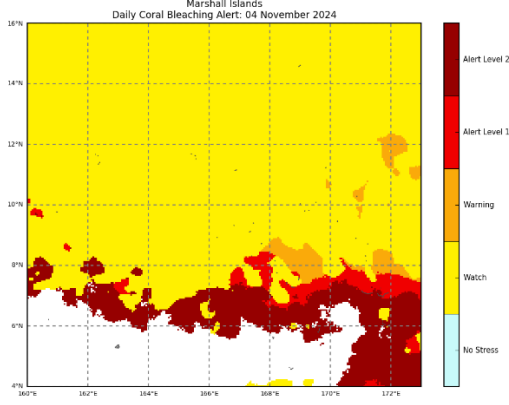
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	937.8	Normal	880.4	1036.2	972.1	30/71
Kwajalein (1945-2024)	692.2	Below normal	739.8	901.3	855.6	64/80

# Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025



# Part 2: Recent Ocean Observation

## Monthly/Three months: October 2024 and August to October 2024

<p><b>Monthly: October 2024</b></p>	<p><b>Last three months: August to October 2024:</b></p>
<p><b>Sea Surface Temperature Anomaly (Image 1):</b></p>  <p>Marshall Islands Monthly Average Sea Surface Temperature Anomaly: October 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p><b>Sea Surface Temperature Anomaly (Image 4):</b></p>  <p>Marshall Islands 3 monthly Average Sea Surface Temperature Anomaly: August 2024 to October 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p><b>Sea level anomaly (Image 2):</b></p>  <p>Marshall Islands Monthly Near Real Time Sea Level Anomaly: October 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS/SeaWiFS SLA</p>	Empty space for comparison
<p><b>Daily coral bleaching alert (Image 3):</b></p>  <p>Pacific Ocean Daily Coral Bleaching Alert: 04 November 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Marshall Islands Daily Coral Bleaching Alert: 04 November 2024</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 December and December to February 2025

Monthly: December	Seasonal: December to February
<b>Monthly sea surface temperature anomaly (Image 5):</b>	<b>Seasonal sea surface temperature anomaly (Image 6):</b>
<p>Difference from average sea surface temperature forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 06/11/2024</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 sea surface temperature forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 06/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, Australian COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<b>Monthly sea level anomaly (Image 7):</b>	<b>Seasonal sea level anomaly (Image 8):</b>
<p>Difference from average sea surface height forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 06/11/2024</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 sea surface height forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/11/2024 Issued: 06/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, Australian COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<b>4-week Coral Bleaching (Image 9):</b>	
<p>Pacific Ocean 12 Weeks Coral Bleaching Outlook: 12 January 2025</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Marshall Islands 12 Weeks Coral Bleaching Outlook: 12 January 2025</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: October 2024/August to October 2024 statement**

The rainfall for October was normal for both Majuro and Kwajalein. For the past three months, rainfall was normal for Majuro while below normal was reported at Kwajalein.

## **Part 1i. Monthly and Seasonal Outlooks for December and December to February 2025**

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

The rainfall for December and December to February is likely or very likely to be above normal across the RMI. In the southernmost RMI, the outlook offers little guidance.

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

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

### **Monthly and last three months: October 2024/August to October 2024**

October and averaged over August to October sea surface temperatures (SSTs) around the RMI's water were 0.5 to 1.5°C above normal.

October sea levels around the RMI were 50 to 250mm above normal. Sea level ranges from 100 to 250mm were observed in the northern, southern, and some atolls in the central RMI.

A coral bleaching Alert Level 2 status is currently in effect for the central RMI and southeast portion of the RMI's Exclusive Economic Zone, as of November 04 2024.

## **Part 2i. Monthly and Seasonal Outlooks for December and December to February 2025**

### **Ocean Variable statement**

December and averaged over December to February, sea surface temperatures across the RMI are predicted to be 0.4 to 1.2°C above normal.

December sea levels around the central, southern, and north-western RMI are predicted to be near normal to 30 to 100mm above normal.

Averaged over December to January, sea levels across the RMI are predicted to be near normal.

Coral Bleaching outlook indicate Alert Levels 1 and 2 in some portions of the southern and south-western RMI's water for the next 12 weeks.

**IN BRIEF for Teleconference**

- Rainfall was normal for October and August to October, except for Kwajalein where rainfall was below normal for August to October period.
- The rainfall outlook generally indicates above normal most likely in December and December to February.
- SSTs were above normal for October and August to October. The outlook shows above normal for December and the next three months.
- Sea levels were above normal for October. Above normal sea levels are predicted for December, and December to January, near normal sea levels are predicted.
- Coral bleaching Alert level 2 is in effect in the central and southeast portion of the RMI’s EEZ. The outlook indicates alert levels 1 and 2 in the next three months for the southern and south-western RMI’s water.

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

Product	Date: October 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	10/25/2024	Chief Secretary Office and National Disaster Managemne Office	6	4	2	
Ocean Outlook						
Climate data request	11/01/2024	Japan International Cooperation Agency (JICA)	5	5		
<b>Total</b>			<b>11</b>	<b>9</b>	<b>2</b>	