

Country: Republic of the Marshall Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2023	Nov-2023	Dec-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2024)	278.9	343.2	202.2	217.3	336.3	279.7	20/70
Kwajalein (1945-2024)	291.1	448.3	188.5	138.0	209.9	164.7	47/78

TABLE 2: Three-month Total Rainfall for October to December 2023

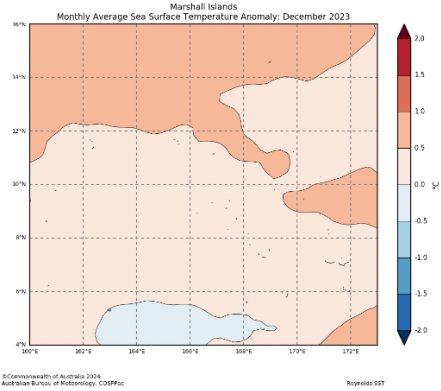
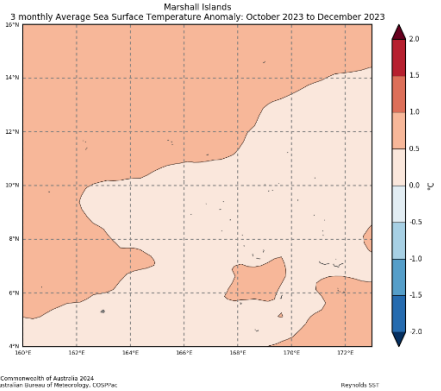
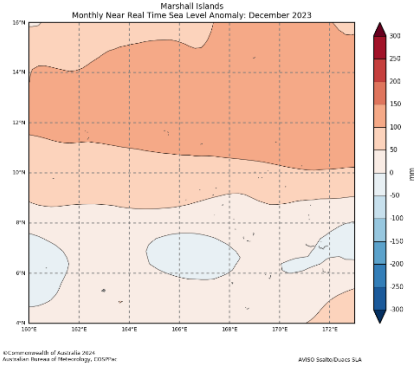
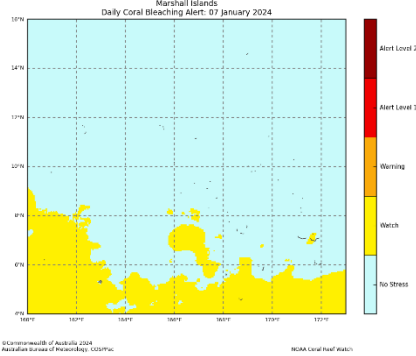
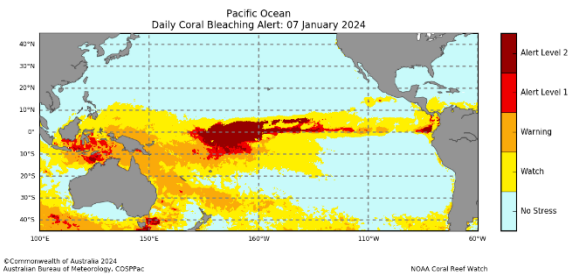
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	824.3	Below normal	886.7	1082.4	1012.7	16/70
Kwajalein (1945-2024)	927.9	Above normal	727.3	848.5	775.9	63/78

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2024

Monthly: February	Seasonal: February to April
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>	<p>Tercile rainfall probabilities for February to April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>	<p>Tercile maximum temperature probabilities for February to April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>	<p>Tercile minimum temperature probabilities for February to April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p>

Part 2: Recent Ocean Observation

Monthly/Three months: December and October to December 2023

<p>Monthly: December</p> <p>Sea Surface Temperature (Image 1):</p> 	<p>Last three months: October to December 2023:</p> <p>Sea Surface Temperature (Image 4):</p> 
<p>Sea level (Image 2):</p> 	
<p>Daily coral bleaching alert (Image 3):</p> 	

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2024

Monthly: February	Seasonal: February to April
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2004N), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 06/01/2024 Issued: 08/01/2024</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for February to April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2004N), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 06/01/2024 Issued: 08/01/2024</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for February 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2004N), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 06/01/2024 Issued: 08/01/2024</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for February to April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2004N), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 06/01/2024 Issued: 08/01/2024</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Marshall Islands 4 Weeks Coral Bleaching Outlook: 04 February 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 04 February 2024</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: December 2023/October to December 2023 statement

The rainfall for December was below normal at Majuro and near-normal at Kwajalein. For the past three months, rainfall was below normal at Majuro and above normal at Kwajalein.

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for February is likely or very likely to be below normal across the central Marshall Islands. In the north and the far south of the country, February's rainfall is likely to be near-normal.

The rainfall for February to April is likely or very likely to be below normal across much of the Marshall Islands, the exceptions being the far north and far south where near-normal rainfall is likely.

Maximum and minimum temperatures during February and averaged over February to April are very likely to be above normal over the Marshall Islands.

Part 2: Recent Ocean summary statement

Monthly and last three months: December 2023/October to December 2023

December ocean temperatures around the RMI were observed to be near normal.

Averaged over October to December, ocean temperatures around the Marshall Islands were observed upmost 1.0°C above normal.

December sea levels around the RMI were 50mm to 100mm above normal in the southern part and 50mm to 150mm in the northern part of the country.

Coral bleaching alert shows 'Watch' status for southern Marshall Islands.

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2024

Ocean Variable statement

Monthly (February) and seasonal (averaged over February to April) ocean temperatures around the Marshall Islands are predicted to be 0.4 to 0.8°C above normal.

Monthly and seasonal sea levels around the Marshall Islands are predicted to be 30mm to 60mm above normal in the central part of the country. In the southern part of the RMI, sea levels are predicted to be 30mm to 100mm below normal.

The coral bleaching outlook shows no thermal stress across the Marshall Islands.

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

Product	Date: December 2023	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	12/15/2023	NDMO and Chief Secretary Office	5	3	2	
Ocean Outlook						
Climate data request						
Total			5	3	2	