

Country: Marshall Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2023	Jan-2024	Feb-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2024)	202.2	111.3	129.8	111.9	239.4	172.9	29/70
Kwajalein (1945-2024)	188.5	42.2	34.8	39.2	104.3	71.6	26/80

TABLE 2: Three-month Total Rainfall for December 2023 to February 2024

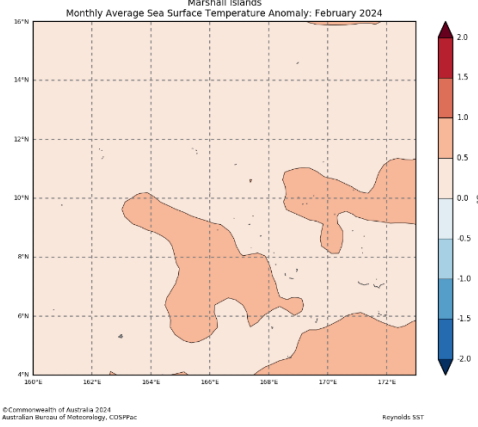
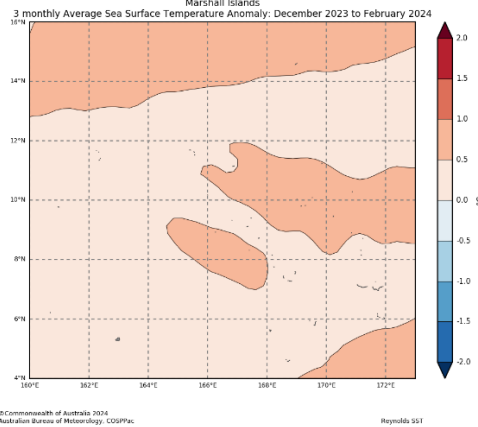
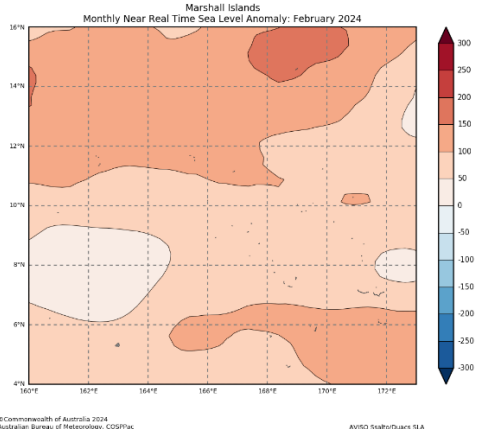
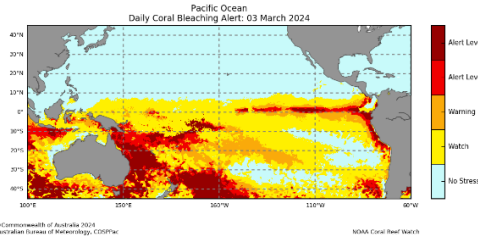
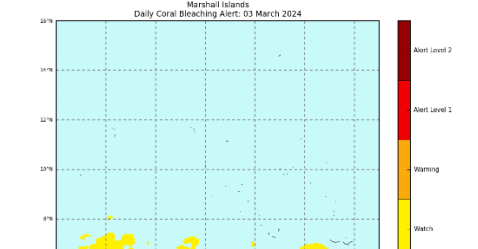
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2024)	443.3	Below normal	585.6	777.6	670.7	12/70
Kwajalein (1945-2024)	265.5	Below normal	312.9	437.2	381.3	15/78

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

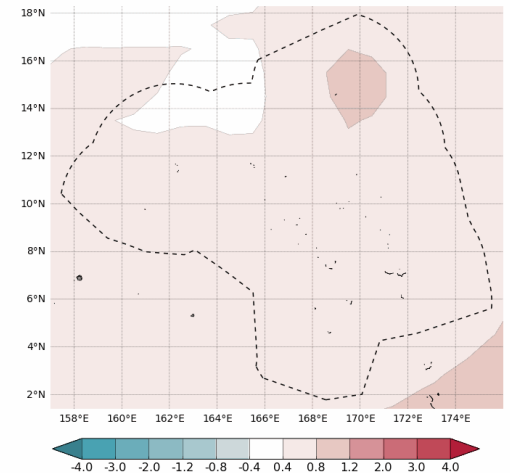
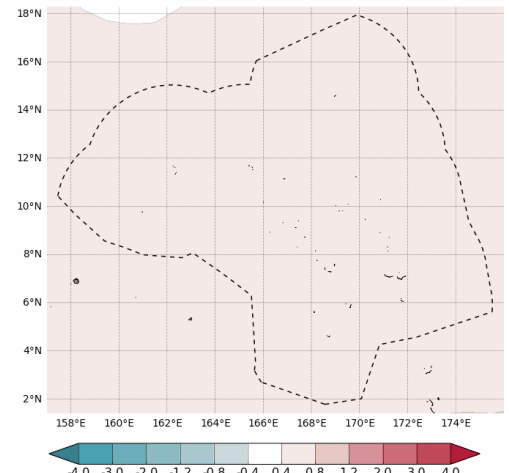
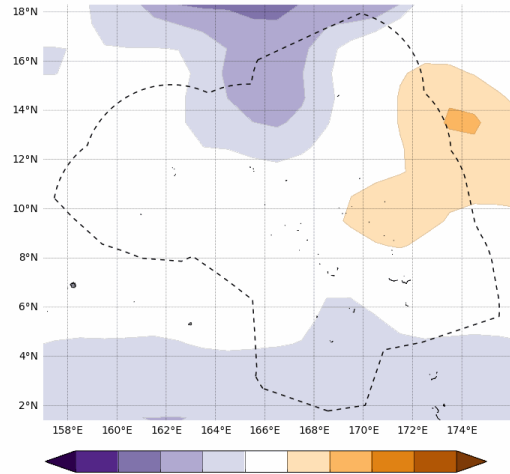
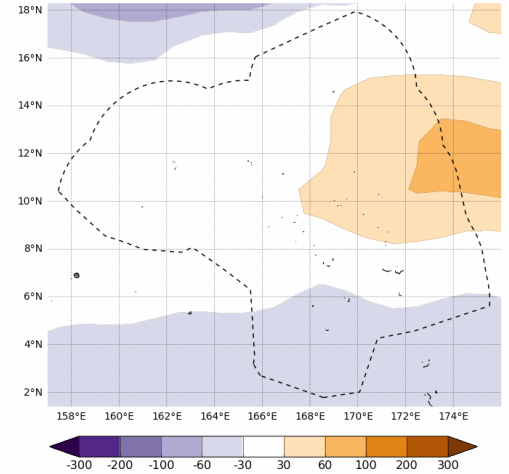
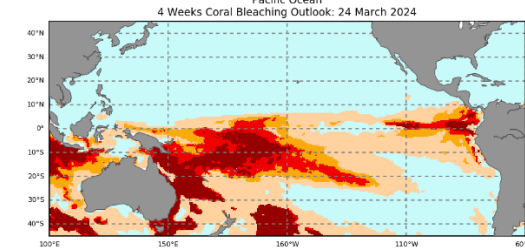
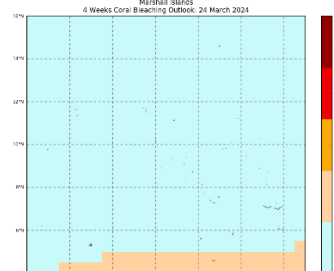
<div>Monthly: April</div> <div>Rainfall (Image 1)</div> <div><p>Tercile rainfall probabilities for April 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimerregions.org/</p><p>Model run: 02/03/2024 Issued: 04/03/2024</p></div>	<div>Seasonal: April to June</div> <div>Rainfall (Image 2)</div> <div><p>Tercile rainfall probabilities for April to June 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.maritimerregions.org/</p><p>Model run: 02/03/2024 Issued: 04/03/2024</p></div>
<div>Monthly Maximum temperature (Image 3):</div> <div><p>Tercile maximum temperature probabilities for 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.maritimerregions.org/</p><p>Model run: 02/03/2024 Issued: 04/03/2024</p></div>	<div>Seasonal maximum temperature (Image 4):</div> <div><p>Tercile maximum temperature probabilities for April to June 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.maritimerregions.org/</p><p>Model run: 02/03/2024 Issued: 04/03/2024</p></div>
<div>Monthly minimum temperature (Image 5):</div> <div><p>Tercile minimum temperature probabilities for 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.maritimerregions.org/</p><p>Model run: 02/03/2024 Issued: 04/03/2024</p></div>	<div>Seasonal minimum temperature (Image 6):</div> <div><p>Tercile minimum temperature probabilities for April to June 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.maritimerregions.org/</p><p>Model run: 02/03/2024 Issued: 04/03/2024</p></div>

Part 2: Recent Ocean Observation

Monthly/Three months: February 2024 and December 2023 to February 2024

Monthly: February 2024		Last three months: December 2023 to February 2024:	
Sea Surface Temperature (Image 1):		Sea Surface Temperature (Image 4):	
<div>Marshall Islands Monthly Average Sea Surface Temperature Anomaly: February 2024</div>  <div>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</div> <div>Reynolds SST</div>		<div>Marshall Islands 3 monthly Average Sea Surface Temperature Anomaly: December 2023 to February 2024</div>  <div>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</div> <div>Reynolds SST</div>	
Sea level (Image 2):			
<div>Marshall Islands Monthly Near Real Time Sea Level Anomaly: February 2024</div>  <div>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</div> <div>AVISO SeaWiFS SLA</div>			
Daily coral bleaching alert (Image 3):			
<div>Pacific Ocean Daily Coral Bleaching Alert: 03 March 2024</div>  <div>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</div> <div>NOAA Coral Reef Watch</div>		<div>Marshall Islands Daily Coral Bleaching Alert: 03 March 2024</div>  <div>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</div> <div>NOAA Coral Reef Watch</div>	

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

Monthly: April	Seasonal: April to June
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for 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.maritimerregions.org/</p> <p>Model run: 02/03/2024 Issued: 04/03/2024</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for April to June 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.maritimerregions.org/</p> <p>Model run: 02/03/2024 Issued: 04/03/2024</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for 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.maritimerregions.org/</p> <p>Model run: 02/03/2024 Issued: 04/03/2024</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for April to June 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.maritimerregions.org/</p> <p>Model run: 02/03/2024 Issued: 04/03/2024</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 24 March 2024</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COOPFac</p> <p>NOAA Coral Reef Watch</p>	<p>Marshall Islands 4 Weeks Coral Bleaching Outlook: 24 March 2024</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COOPFac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: February 2024/December 2023 to February 2024 statement

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

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for April is likely or very likely to be below normal over the central and northern RMI, including at both Majuro and Kwajalein. In the far south of the country, April rainfall is likely or very likely to be above normal.

The rainfall for April to June is likely or very likely to be above normal in the southern RMI, including Majuro., while below normal rainfall is likely or very likely in the north. For most of the central RMI, including Kwajalein, near-normal rainfall is likely.

Maximum and minimum temperatures during April and averaged over April to June, are very likely to be above normal across the RMI.

Part 2: Recent Ocean summary statement

Monthly and last three months: February 2024/December 2023 to February 2024

February ocean temperatures around the RMI were 0.0 to 1.0°C above normal.

Averaged over December to February, ocean temperatures across the RMI were 0.0 to 1.0°C above normal.

February sea levels around the RMI were 50mm to 150mm above normal. A small portion was observed in the northernmost RMI where sea level reached up to 250mm above normal.

Coral bleaching was at Watch status for the southern waters, while a NO STRESS status for most of the RMI.

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

Ocean Variable statement

April ocean temperatures and average over April to June across the RMI are predicted to be 0.4 to 0.8°C above normal.

April sea levels in the north eastern RMI are predicted to be 30mm to 60mm above normal. Near-normal is predicted for most of the RMI, while below normal sea levels are predicted for the northernmost and southernmost RMI.

Averaged over April to June, sea levels around north eastern RMI are predicted to be 30mm to 100mm above normal. Near-normal sea level is predicted for the most of the RMI, while below normal sea level for the southernmost RMI.

Coral bleaching outlook is in NO STRESS status.

IN BRIEF for Teleconference

- Rainfall was below normal for December and December to February, except Majuro where rainfall was above normal for the month of February.
- The rainfall outlook generally indicates below average most likely in April but little guidance for total rainfall in the next three months.
- SSTs were near-normal to above normal for February and December to February. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSH) were above normal for February. Near-normal sea surface heights are predicted for most of the RMI over the next three months.

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

Product	Date: February 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin	02/19/2024	Chief Secretary Office, National Disaster Management Office, Ministry of Natural Resources and Commerce, Ministry of Health and Human Resources, IOM, RMI EPA, Red Cross, Climate Change Directorate, Marshall Islands Conservation Society, RMI Port Authority, Jo Jikum	23	16	7	
EAR Watch		Chief Secretary Office, National Disaster Management Office, Ministry of Natural Resources and Commerce	9	4	5	
Monthly Climate Briefing	02/16/2024	Chief Secretary Office and National Disaster Management Office	7	4	3	
Ocean Outlook	02/19/2024	Chief Secretary Office, National Disaster Management Office, Ministry of Natural Resources and Commerce, Ministry of Health and Human Resources, IOM,	23	16	7	

		RMI EPA, Red Cross, Climate Change Directorate, Marshall Islands Conservation Society, RMI Port Authority, Jo Jikum				
Climate data request						
Total			62	40	22	