

Country: Marshall Islands

Part 1: Recent climate

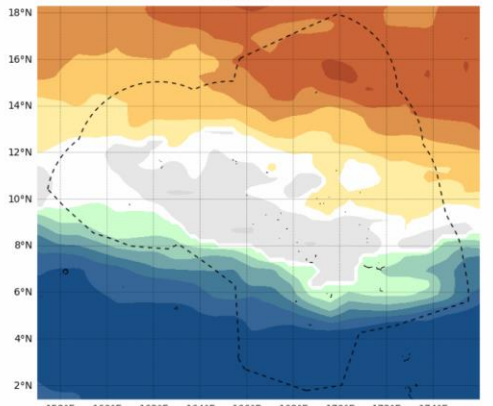
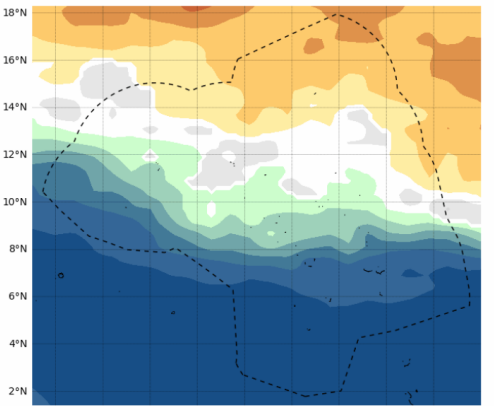
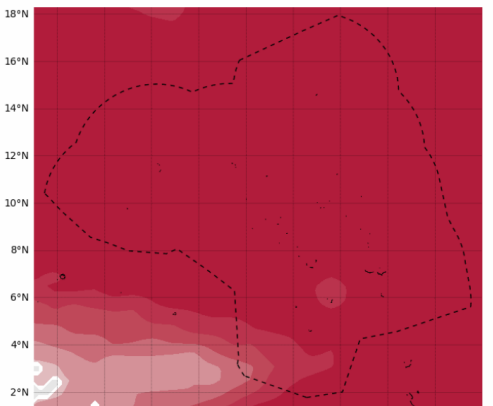

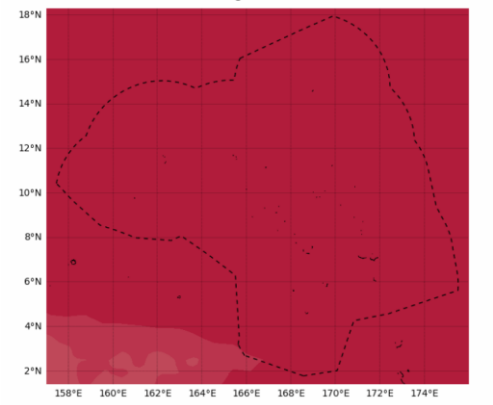
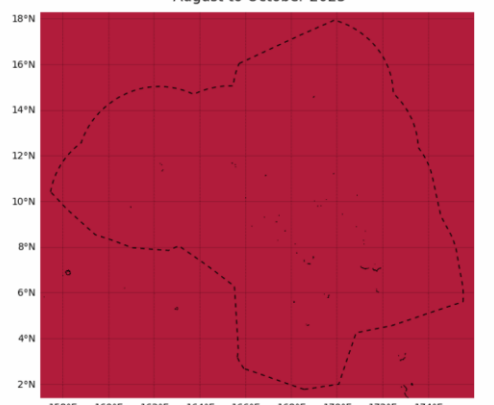
TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2023	May-2023	Jun-2023				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2023)	361.4	262.9	293.6	239.6	330.7	287.3	40/70
Kwajalein (1945-2023)	250.7	588.8	252.2	176.1	259.2	205.8	51/79

TABLE 2: Three-month Total Rainfall for April to June 2023

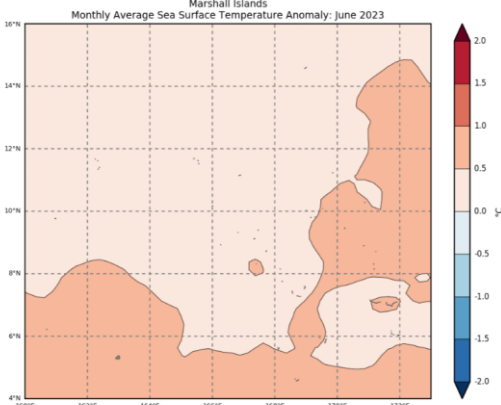
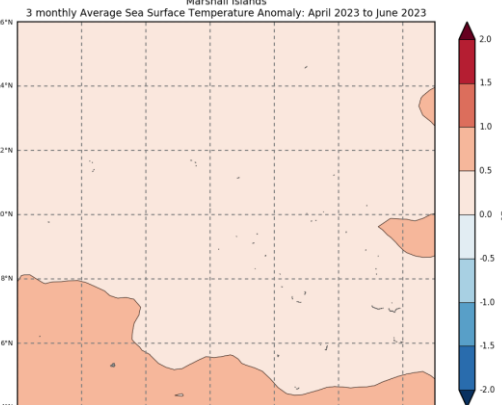
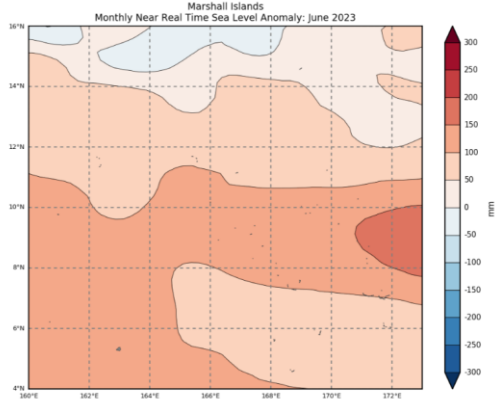
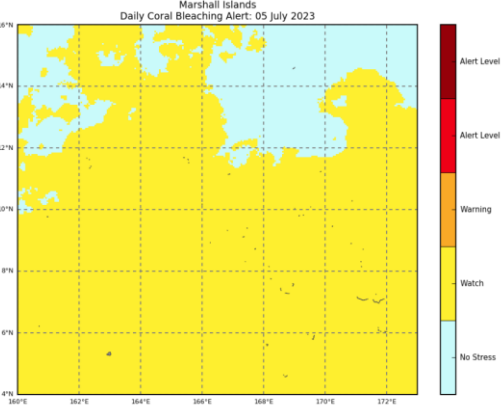
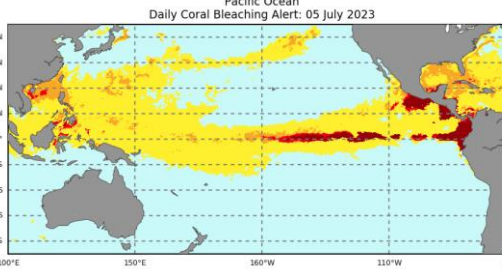
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2023)	917.9	Normal	678.4	980.1	842.4	42/69
Kwajalein (1945-2023)	1091.7	Above normal	506.6	716.2	609.4	75/79

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2023

Monthly: August	Seasonal: August to October
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for August 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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>Model run: 03/07/2023 Issued: 06/07/2023</p>	<p>Tercile rainfall probabilities for August to October 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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>Model run: 03/07/2023 Issued: 06/07/2023</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for August 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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>Model run: 03/07/2023 Issued: 06/07/2023</p>	<p>Tercile maximum temperature probabilities for August to October 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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>Model run: 03/07/2023 Issued: 06/07/2023</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for August 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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>Model run: 03/07/2023 Issued: 06/07/2023</p>	<p>Tercile minimum temperature probabilities for August to October 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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>Model run: 03/07/2023 Issued: 06/07/2023</p>

Part 2: Recent Ocean Observation

Monthly/Three months: April and April to June 2023

Monthly: June	Last three months: April to June 2023:
<p>Sea Surface Temperature (Image 1):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS/QuikSCAT SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2023

Monthly: August	Seasonal: August to October
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for August 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernance.org/</p> <p>Model run: 03/07/2023 Issued: 05/07/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for August to October 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernance.org/</p> <p>Model run: 03/07/2023 Issued: 05/07/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for August 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernance.org/</p> <p>Model run: 03/07/2023 Issued: 05/07/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for August to October 2023</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegovernance.org/</p> <p>Model run: 03/07/2023 Issued: 05/07/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Marshall Islands 4 Weeks Coral Bleaching Outlook: 30 July 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 30 July 2023</p> <p>©Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: June 2023/April to June 2023 statement

June rainfall was normal at both Majuro and Kwajalein. For the last three months, normal rainfall was recorded at Majuro, while above normal rainfall was recorded at Kwajalein. It was the fifth wettest April to June period for Kwajalein.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for August is likely or very likely to be above normal over the southern and some atolls in the central RMI including Majuro, while below normal is very likely over northern RMI. Near-normal August rainfall is predicted for central RMI, including Kwajalein.

The rainfall for August to October is likely or very likely to be above normal over the southern half of RMI, including Majuro and Kwajalein. Below normal rainfall is very likely for the northern quarter of the country, but there's little guidance for the remaining region in central RMI.

Maximum and minimum temperatures during August and averaged over August to October are very likely to be above normal over the entire republic.

Part 2: Recent Ocean summary statement

Monthly and last three months: June 2023/April to June 2023

June ocean temperatures around eastern and southern Marshall Islands were 0.5 to 1.0°C above normal.

Averaged over April to June, ocean temperatures around southern Marshall Islands were utmost 1.0°C.

June sea levels around eastern RMI were 150mm to 200mm above normal. In the central and south western RMI 100mm to 150mm above normal were observed.

WATCH status for coral bleaching was in place for most the RMI's water.

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2023

Ocean Variable statement

August ocean temperatures around the Marshalls are predicted to be 0.4 to 0.8°C above normal.

Averaged over August to October, ocean temperatures around south-eastern RMI are predicted to be 0.8 to 1.2°C above normal, and the rest of the RMI, 0.4 to 0.8°C are predicted.

August sea levels in the northern and central RMI including Kwajalein are predicted to be 30mm to 60mm, while near normal sea levels are predicted for Majuro, southern atolls and northernmost atolls in the RMI.

Averaged over August to October, sea levels around the southern RMI are predicted to be -100mm to -60mm below normal, while near normal is predicted for the central and northern RMI.

Coral bleaching outlook is at WATCH status for the northern, southern, and western waters of the RMI.

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

Product	Date: June 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	06/19/2023	Chief Secretary Office and National Diaster Management Office	6	3	3	
Ocean Outlook						
Climate data request						
Total			6	3	3	