

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 176

Country: Marshall Islands

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2022	Mar-2022	Apr-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Majuro (1954-2022)	223.3	498.1	610.1	207.6	323.8	261.2	67/68
Kwajalein (1945-2022)	163.8	281.2	208.5	116.7	207.2	146.9	53/78

TABLE 2: Three-month Total Rainfall for February to April 2022

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Majuro (1954-2022)	1331.5	Above normal	559.2	785.0	667.1	67/68
Kwajalein (1945-2022)	653.5	Above normal	257.0	440.6	366.2	67/78

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

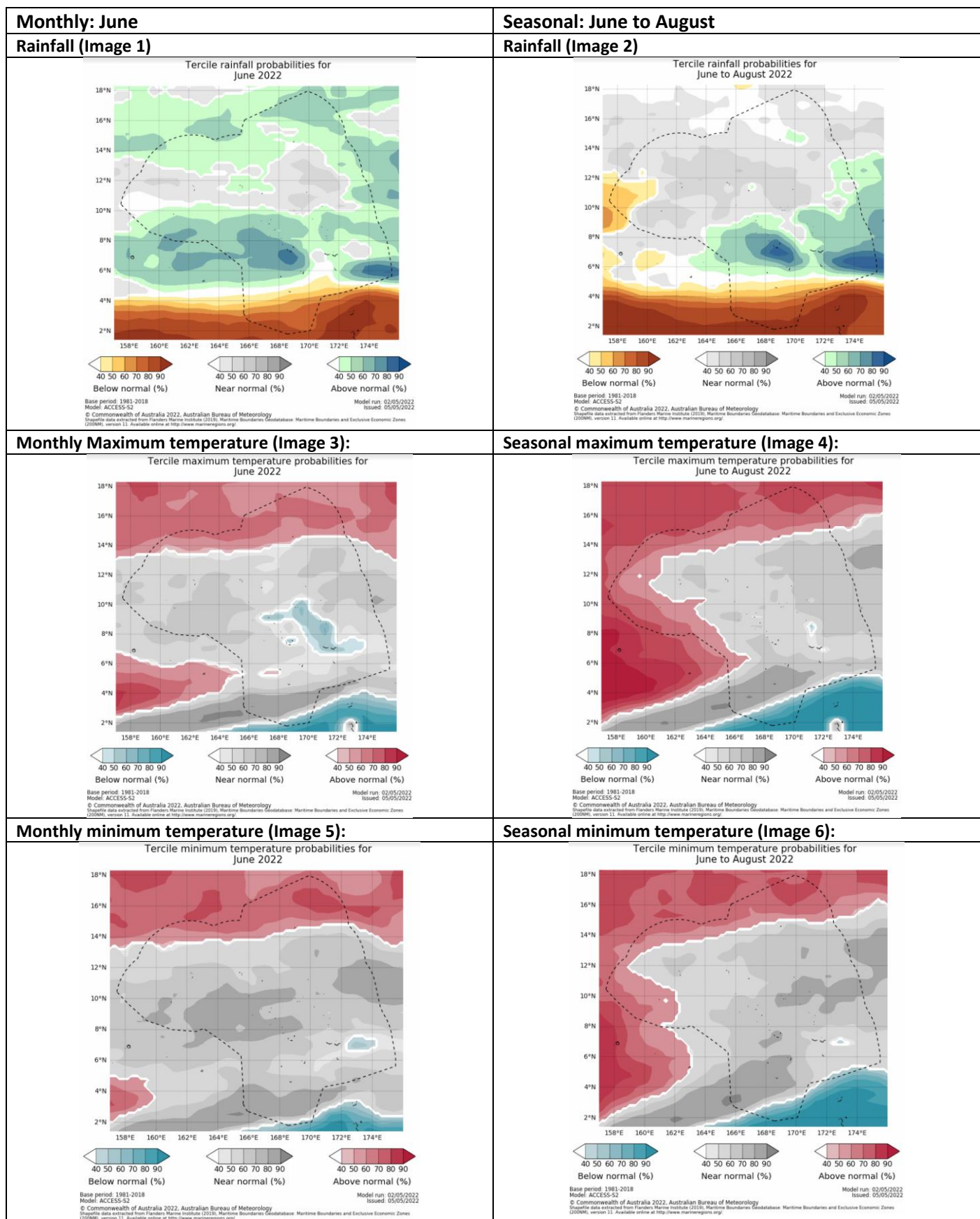
Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2022



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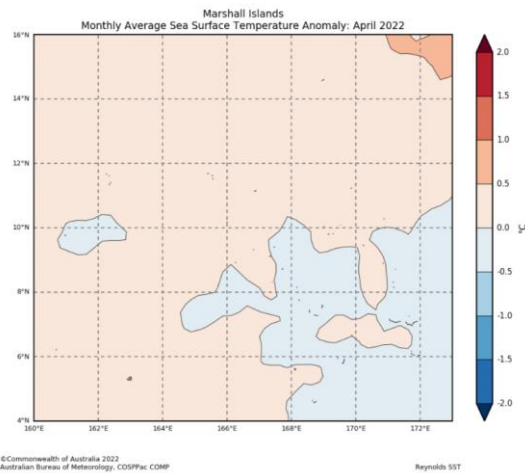
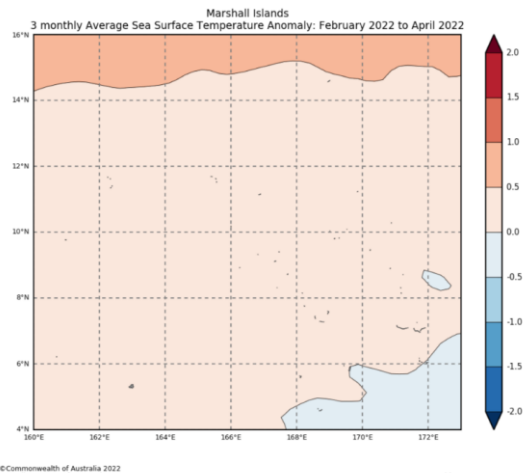
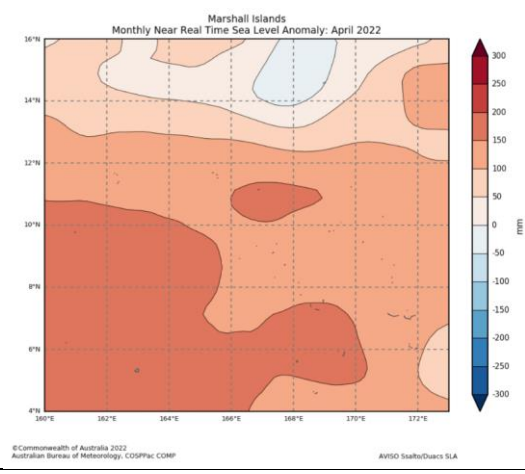
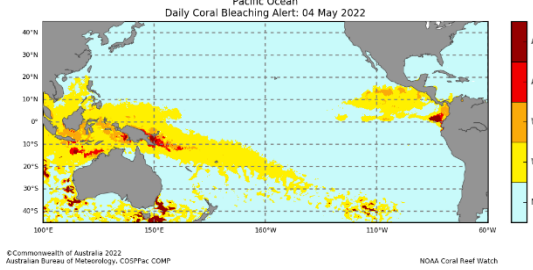
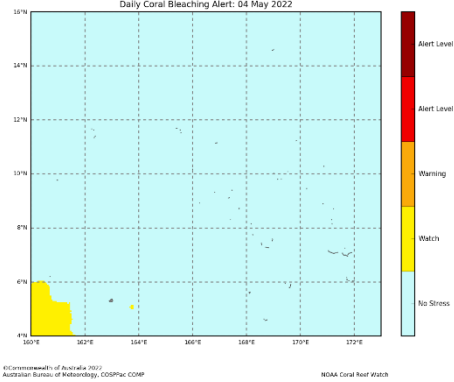
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Part 2: Recent Ocean summary statement

Monthly: April 2022

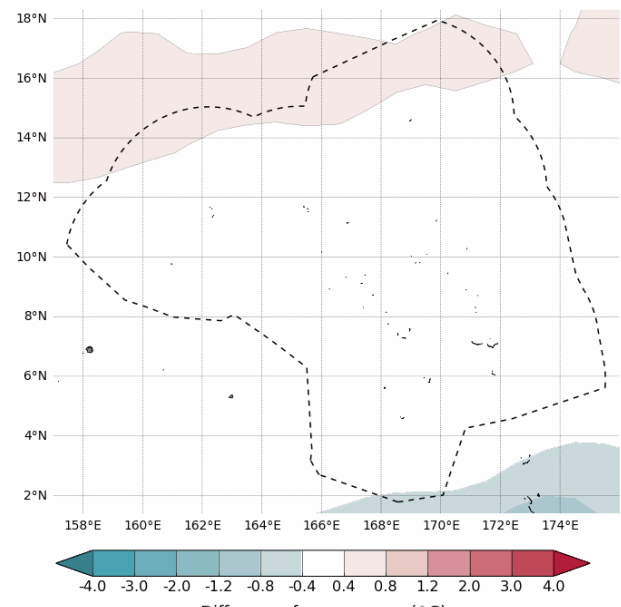
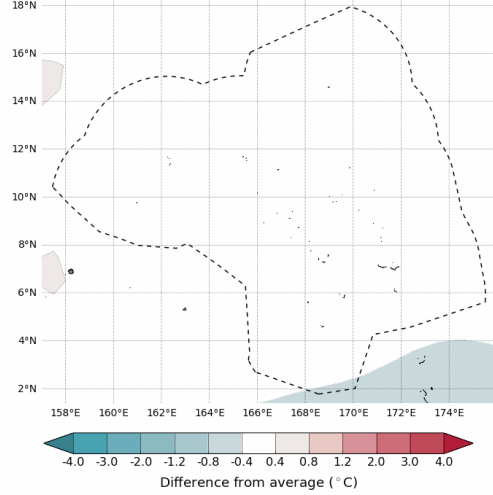
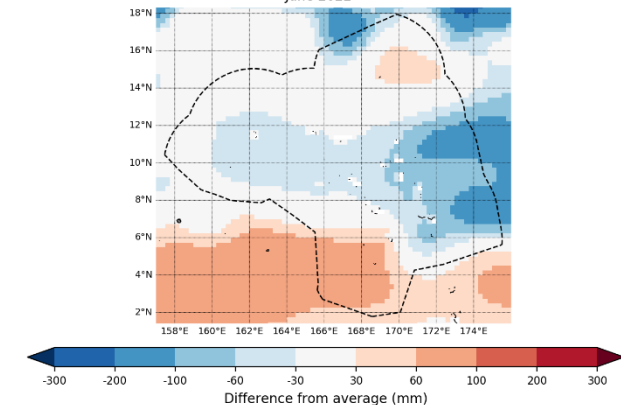
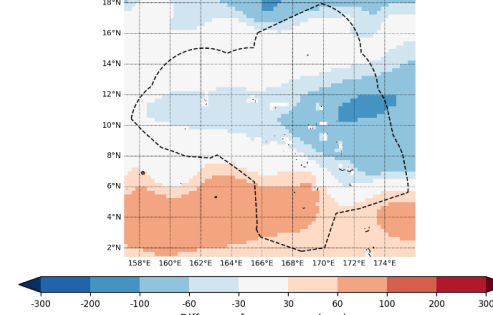
<p><u>Monthly: April</u></p>	<p><u>Last three months: February to April 2022:</u></p>
<p>Sea Surface Temperature (Image 1):</p>	<p>Sea Surface Temperature (Image 4):</p>
	
<p>Sea level (Image 2):</p>	
	
<p>Daily coral bleaching alert (Image 3):</p>	
	

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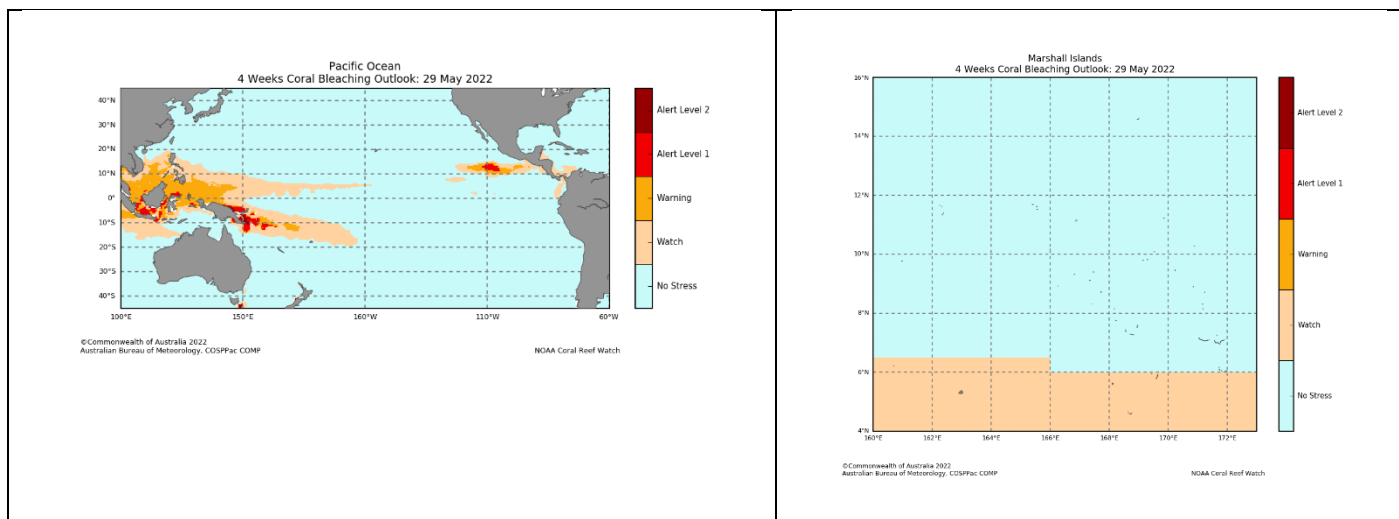
Part 2i. Monthly and Seasonal Outlooks for June and June to August 2022

Monthly: June	Seasonal: June to August
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for June 2022</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapellie 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/. Model run: 14/05/2022 Issued: 16/05/2022</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for June to August 2022</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2022, Australian Bureau of Meteorology Shapellie 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/. Model run: 14/05/2022 Issued: 16/05/2022</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for June 2022</p>  <p>© Commonwealth of Australia 2022 Bureau of Meteorology Model: ACCESS-S2 Base Period: 1981-2018 Model Run: 15/04/2022 Issued: 21/04/2022</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for June 2022 to August 2022</p>  <p>© Commonwealth of Australia 2022 Bureau of Meteorology Model: ACCESS-S2 Base Period: 1981-2018 Model Run: 13/04/2022 Issued: 21/04/2022</p>
<p>4-week Coral Bleaching (Image 9):</p>	

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Summary Statement

Monthly and last three months: April 2022/February to April 2022 statement (*Highly significant changes*)

Above normal rainfall recorded at both Majuro and Kwajalein for both April and February to April. Majuro recorded its second wettest April and February to April on record.

Part 1i. Monthly and Seasonal Outlooks for June and June to August 2022

Monthly /Seasonal rainfall and temperature Outlook statements (*Highly significant changes*)

The outlook for Majuro and Kwajalein for June is likely to be above normal. The seasonal outlook is likely to be above normal at Majuro and the southern islands. On the other hand, normal rainfall is the most likely outcome for Kwajalein and the northern islands.

The monthly maximum temperature outlook is likely to be below normal at Majuro and nearby atolls. Normal minimum temperature outlook for most of the Republic. The seasonal maximum and minimum temperature outlook is very likely to be normal for the entire Marshall Islands.

Part 2: Recent Ocean summary statement

Monthly and last three months: April/February to April 2022 (*Highly significant changes*)

For the month of April and the past three months February to April, Marshall Islands experienced normal SST conditions.

The monthly sea level anomaly was significantly higher than normal at both Majuro and Kwajalein, ranging from 100 mm to 150 mm. While higher than normal sea level ranging from 150mm to 200mm was observed in the western Marshall Islands.

The entire Marshall Islands was placed in NO STRESS status for Coral Bleaching during the month of April.

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Part 2i. Monthly and Seasonal Outlooks for June and June to August 2022

Ocean Variable statement *(Highly significant changes)*

The monthly and seasonal outlook for SST shows normal SST conditions for most of the Marshall Islands. The monthly and seasonal outlook for sea level anomaly shows below average heights of -30 to -60mm for Majuro and above average heights of 30 to 100mm for western Marshall Islands.

Coral Bleaching Outlook is on 'Watch' status for southern Marshall Islands for the next four weeks.

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

Product	Date: April 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin					
EAR Watch					
Monthly Climate Briefing	04/27/2022	Chief Secretary Office and National Disaster Management Office	6	4	2
Ocean Outlook					
Climate data request					
Total			6	4	2

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