## Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 186

## Country: Marshall Islands

## Part 1: Recent climate

### TABLE 1: Monthly Rainfall

| Station (include data period) | Dec-2022 | Jan-2023 | Feb-2023 | | | | |
|---|---|---|---|---|---|---|---|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Majuro (1954-2023) | 261.6 | 308.4 | 241.6 | 111.9 | 239.4 | 172.9 | 49/69 |
| | | | | | | | |
| Kwajalein (1945-2023) | 149.4 | 179.8 | 33.5 | 39.2 | 100.1 | 69.1 | 24/79 |

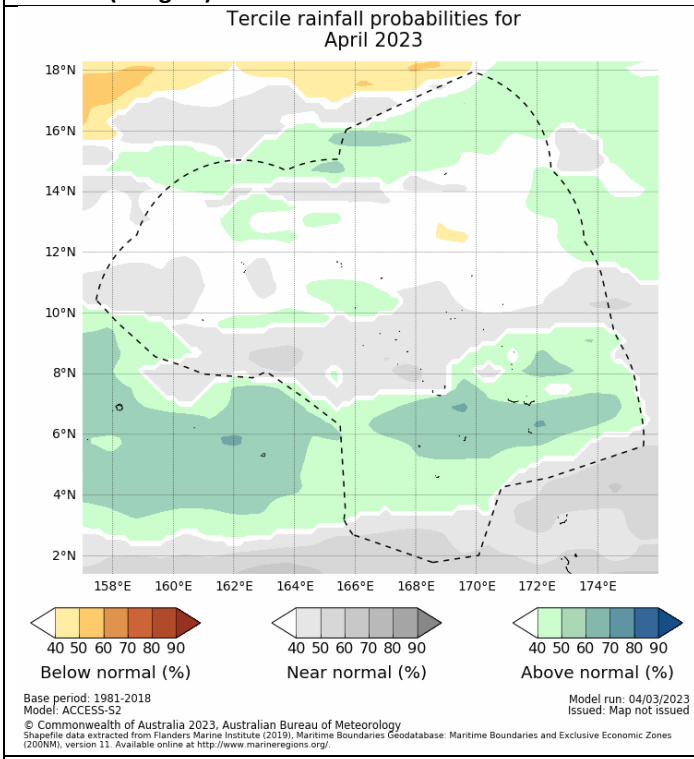
### TABLE 2: Three-month Total Rainfall for December 2022 to February 2023

| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|---|---|---|---|---|---|---|
| | Rainfall (mm) | | | | | |
| Majuro (1954-2023) | 811.6 | Above normal | 583.8 | 765.4 | 665.7 | 50/69 |
| | | | | | | |
| Kwajalein (1945-2023) | 362.7 | Normal | 307.9 | 437.3 | 392.3 | 37/77 |

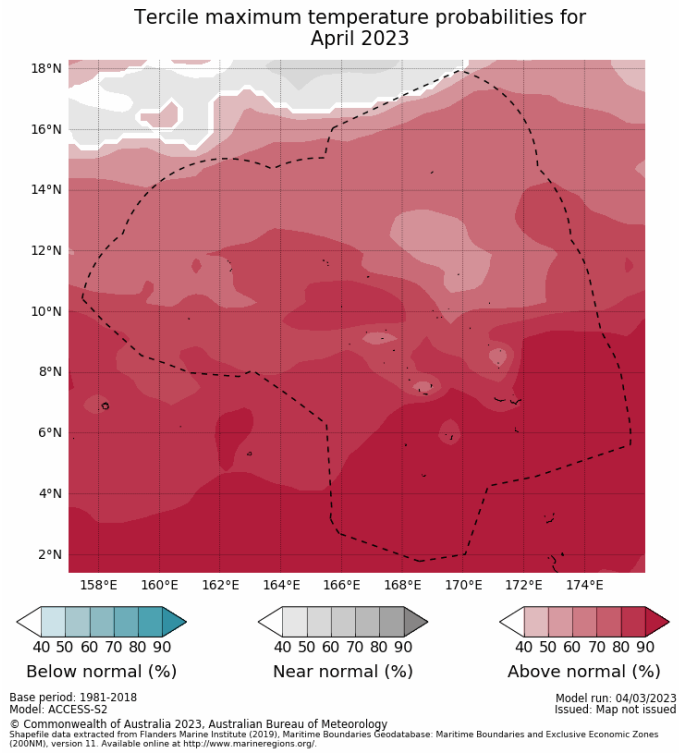
# Part 1i. Monthly and Seasonal Outlooks for April and April to June 2023

## Monthly: April

### Rainfall (Image 1)



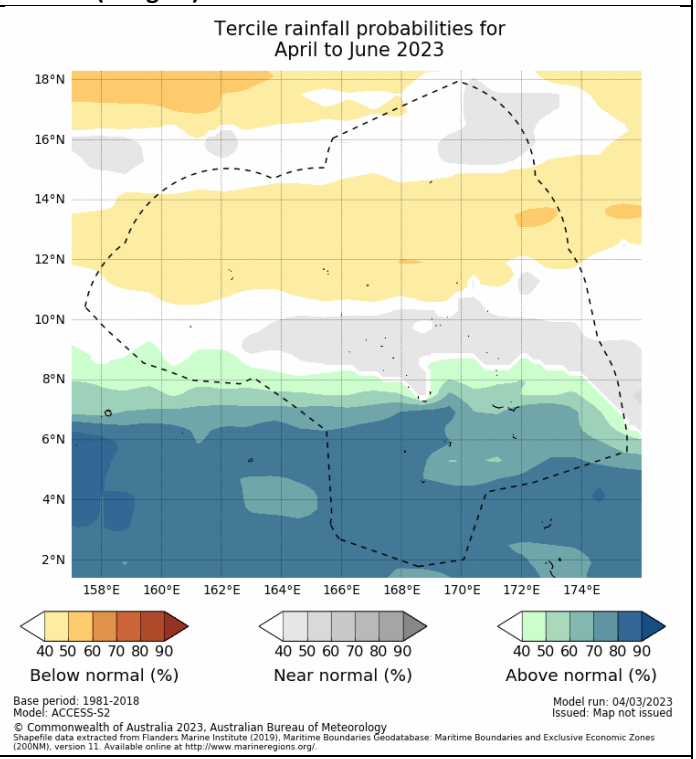

### Monthly Maximum temperature (Image 3):



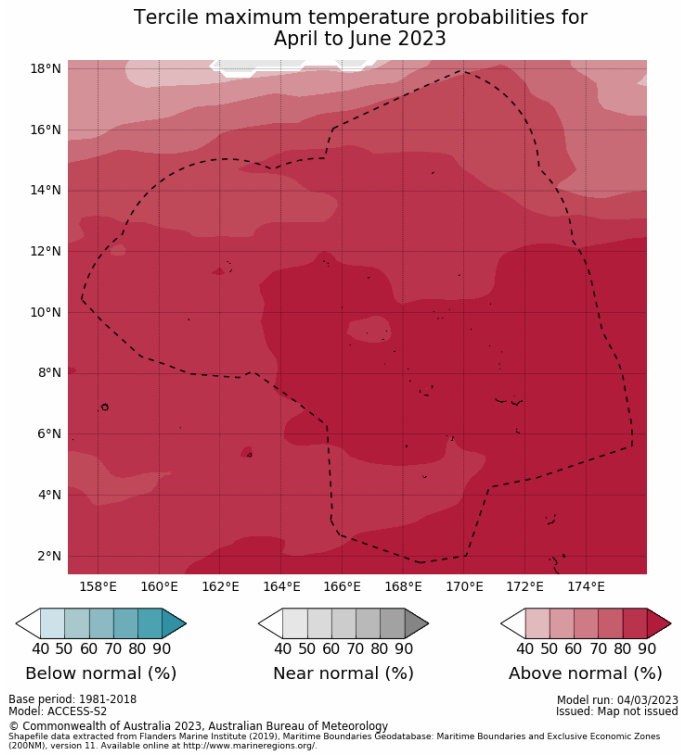

### Monthly minimum temperature (Image 5):

## Seasonal: April to June

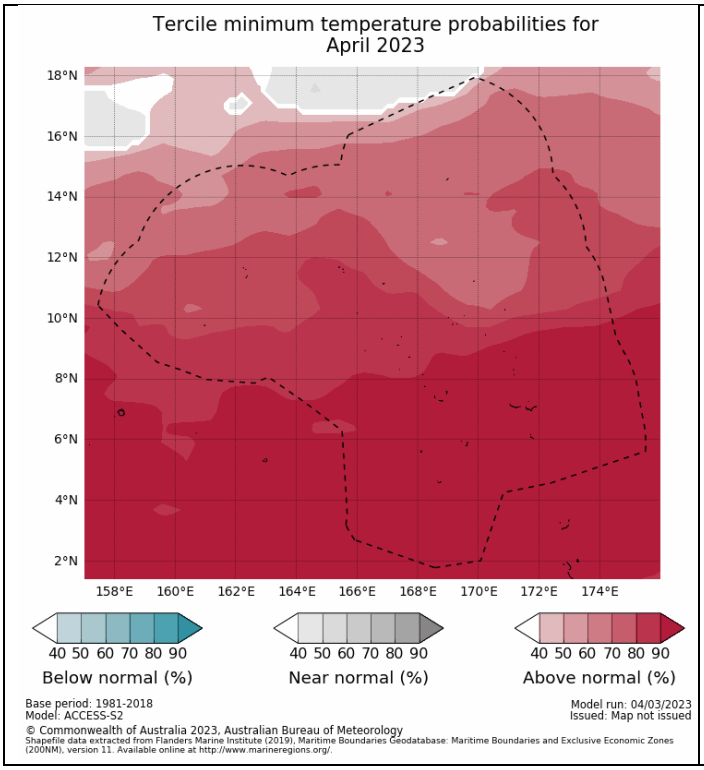
### Rainfall (Image 2)

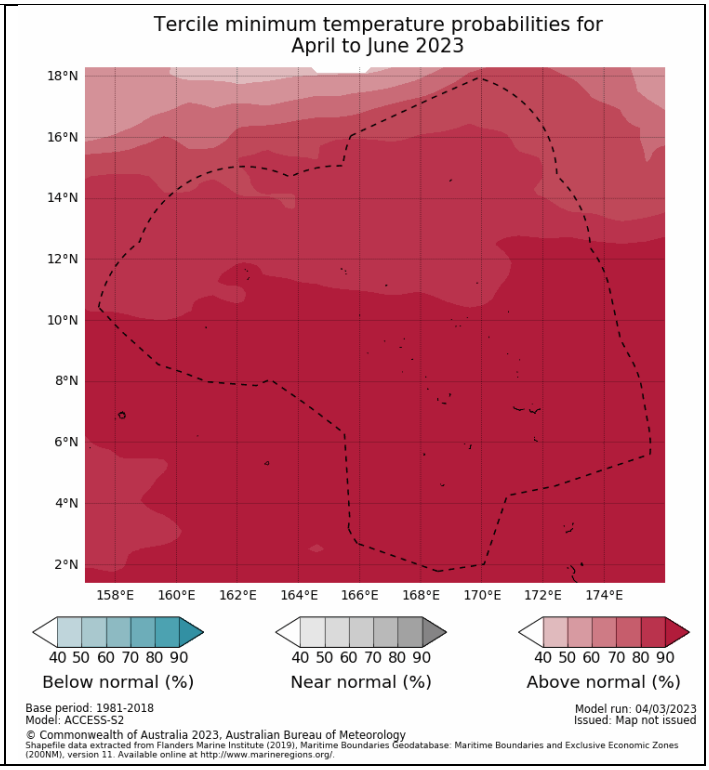



### Seasonal maximum temperature (Image 4):



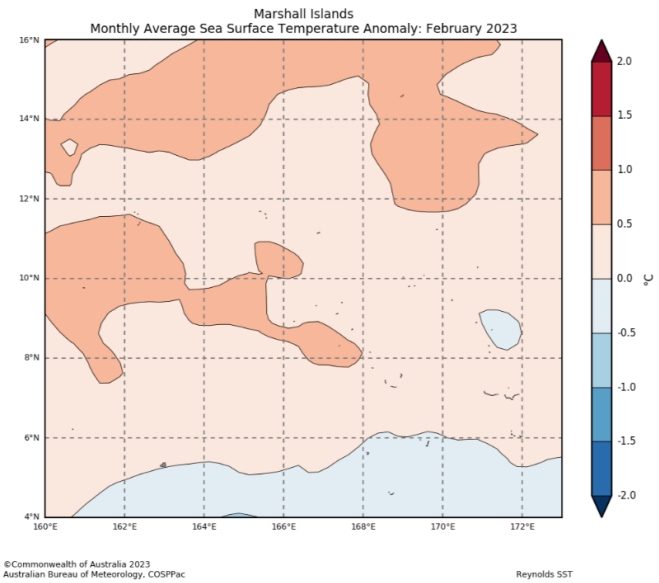
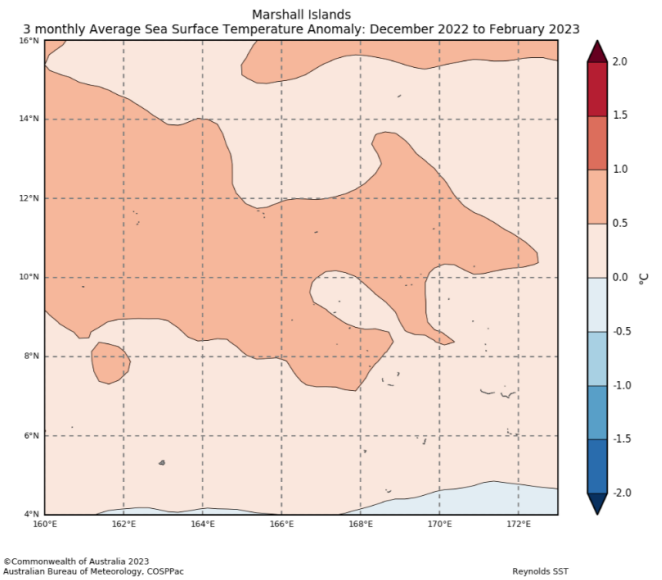

### Seasonal minimum temperature (Image 6):

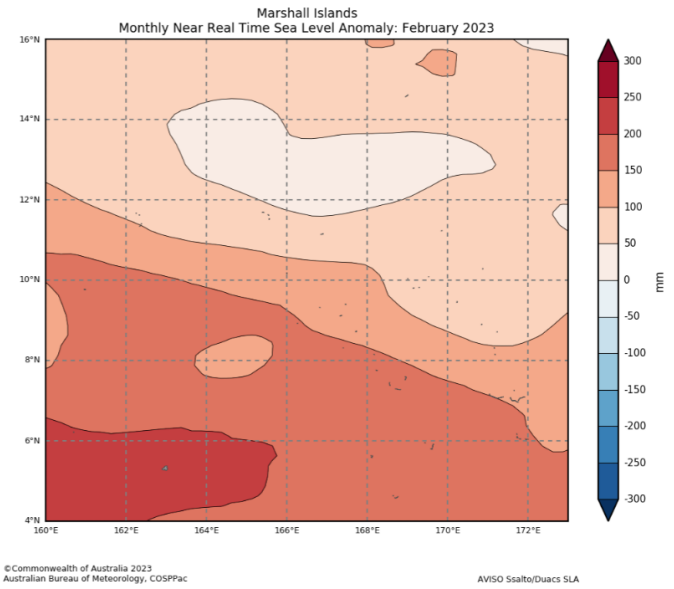


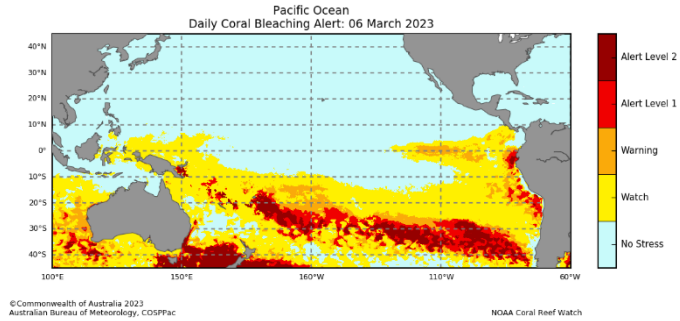

# Part 2: Recent Ocean Observation

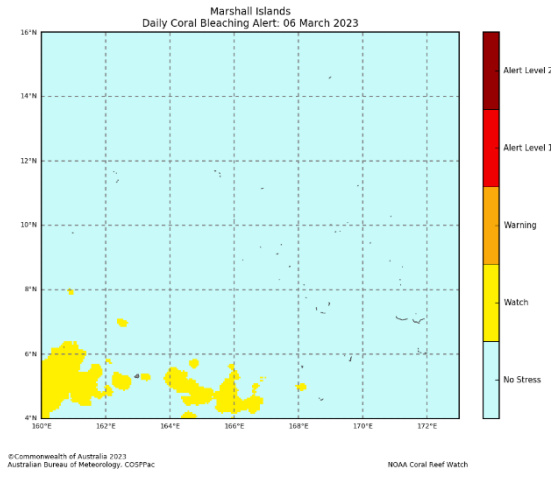
## Monthly/Three months: February 2023 and December 2022 to February 2023

| **Monthly: February** | **Last three months: December 2022 to February 2023:** |
|---|---|
| **Sea Surface Temperature (Image 1):** | **Sea Surface Temperature (Image 4):** |
|   |   |
| **Sea level (Image 2):** | |

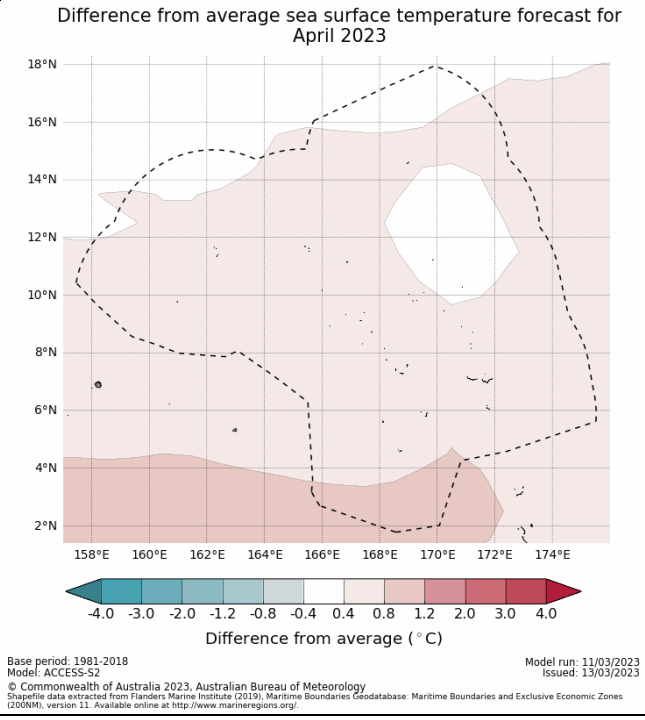
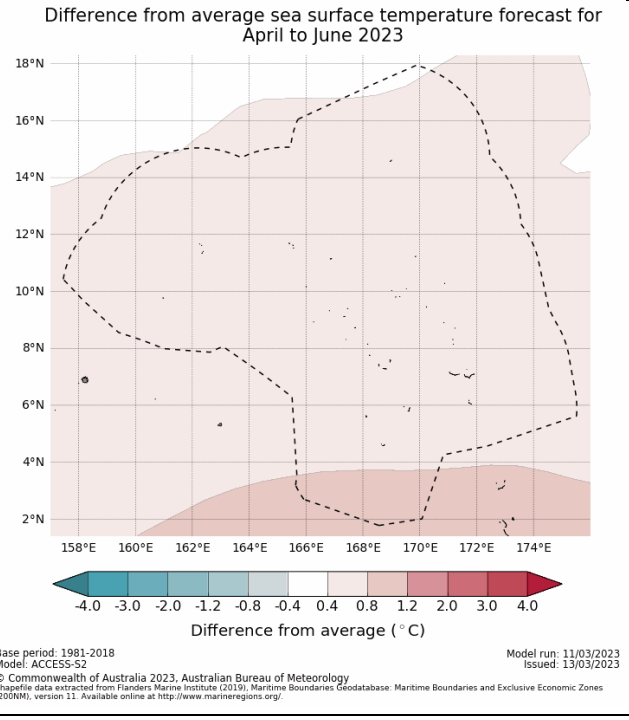
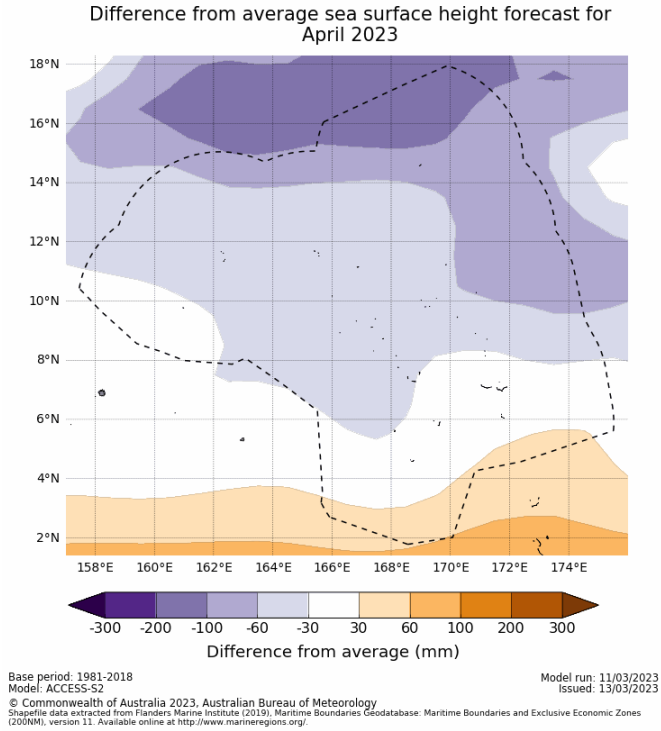
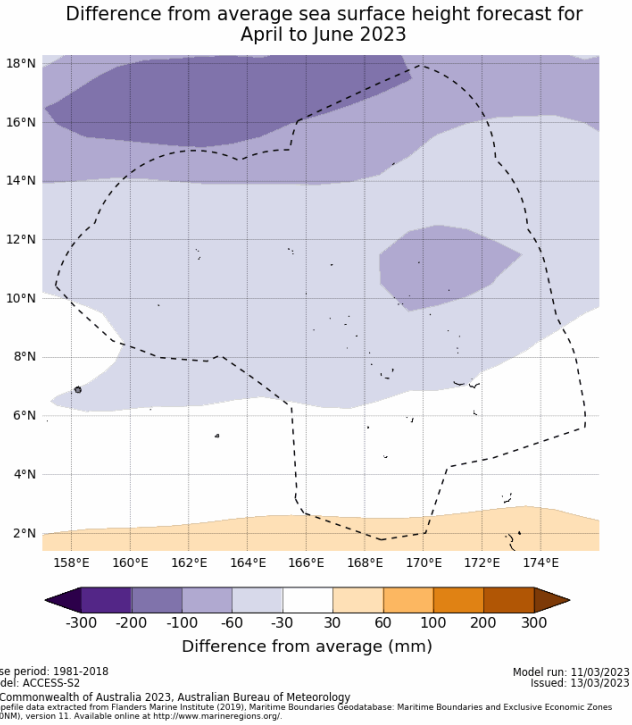


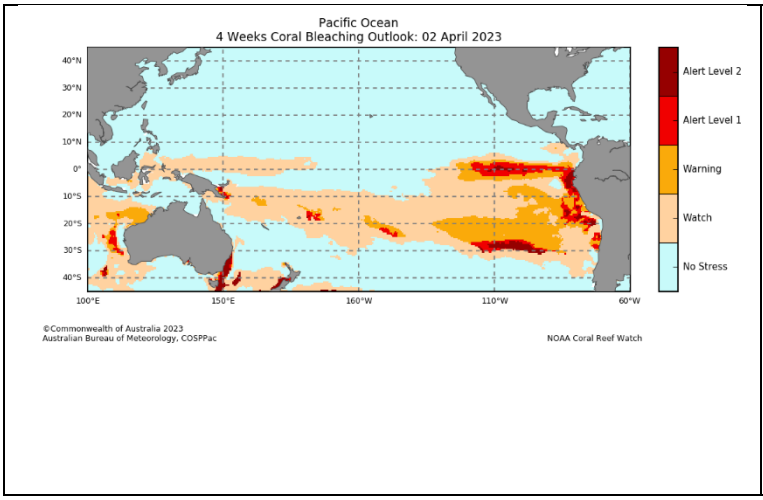

**Daily coral bleaching alert (Image 3):**

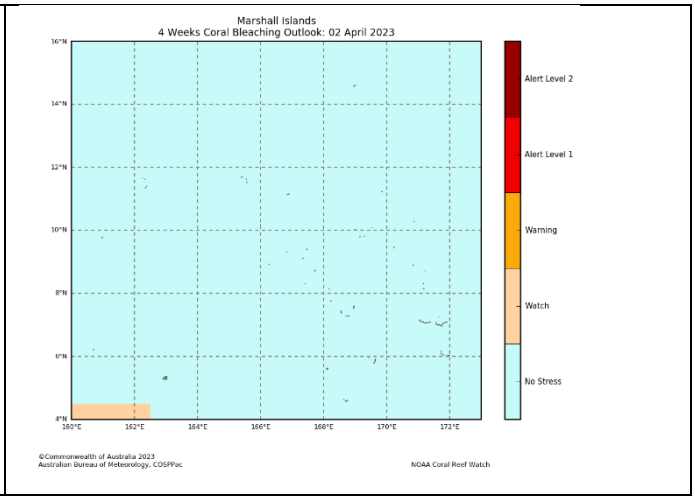


# Part 2i. Monthly and Seasonal Outlooks for April and April to June 2023

| Monthly: April | Seasonal: April to June |
|---|---|
| **Monthly sea surface temperature (Image 5):** | **Seasonal sea surface temperature (Image 6):** |
|  |  |
| **Monthly sea level (Image 7):** | **Seasonal sea level (Image 8):** |
|  |  |
| **4-week Coral Bleaching (Image 9):** | |




## Summary Statement

**Monthly and last three months: February 2023/December 2022 to February 2023 statement**

February rainfall was above normal at Majuro, and below normal rainfall at Kwajalein. For the last three months, above normal rainfall was recorded at Majuro, and near-normal was recorded Kwajalein.

## Part 1i. Monthly and Seasonal Outlooks for April and April to June 2023

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

The rainfall for April is likely or very likely to be above normal in the central, northwest and far northern parts of RMI, including Majuro and Kwajalein. In the far south, near-normal is likely, but around and to the north of Bikar Atoll the outlook offers little guidance.

The rainfall for April to June is likely or very likely to be above normal in the central and southern region, except for Kwajalein and neighbouring atolls where rainfall is likely to be near-normal. In the northern region, the outlook shows April to June's rainfall is likely to be below normal.

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

## Part 2: Recent Ocean summary statement

**Monthly and last three months: February 2023/December 2022 to February 2023**

February ocean temperatures around eastern Marshalls were up to 0.5°C near normal. The ocean temperature across the western and northern RMI were up to 1.0°C above normal.

Averaged over December to February, ocean temperatures around western and central region were 0.5 to 1.0°C above normal, while Majuro and southern RMI were 0.0 to 0.5°C near normal.

February sea levels around central and southern RMI were 150mm to 200mm above normal, but further north they were lower, reaching 50mm to 100mm above normal.

Coral bleaching alert reveals not thermal stress for most of the RMI.

## Part 2i. Monthly and Seasonal Outlooks for April and April to June 2023

**Ocean Variable statement**

April ocean temperatures across the RMI are predicted to be 0.4 to 0.8°C above normal, except for the north-eastern part of the RMI are predicted to be near-normal.

Averaged over April to June, ocean temperatures across the Marshall Islands are predicted to be 0.4 to 0.8°C above normal.

April sea levels around north and north-eastern RMI are predicted to be -30mm to -100mm below normal, while near-normal sea levels are predicted for the eastern and southern Marshall Islands.

Averaged over April to June, sea levels around the central and northern RMI are predicted to be -30mm to -100mm below normal.

Coral bleaching outlook predicts no thermal stress across the Marshall Islands.

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

| Product | Date: February 2023 | Stakeholder | Total Number of Participants | Number of male | Number of female |
|---|---|---|---|---|---|
| Climate Bulletin | | | | | |
| EAR Watch | | | | | |
| Monthly Climate Briefing | 02/17/23 | Chief Secretary Office (CSO) and National Disaster Management Office (NDMO) | 7 | 3 | 4 |
| Ocean Outlook | | | | | |
| Climate data request | | | | | |
| | | **Total** | **7** | **3** | **4** |