## Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 183

## Country: Marshall Islands

## Part 1: Recent climate

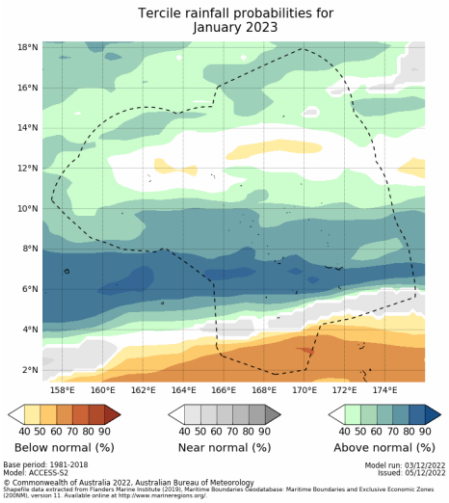
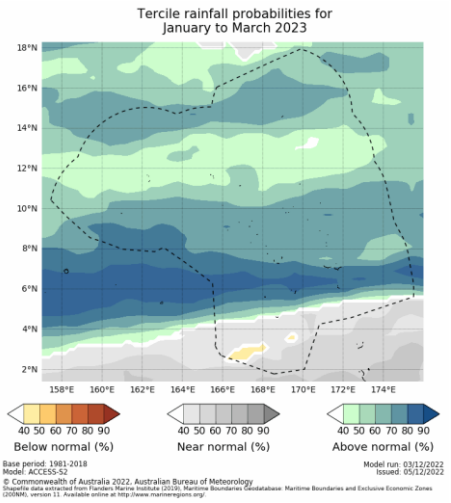
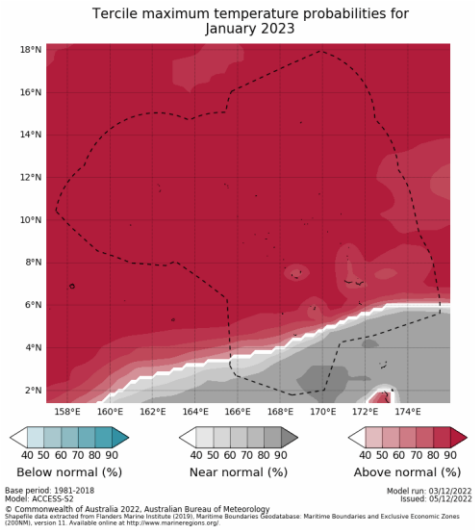
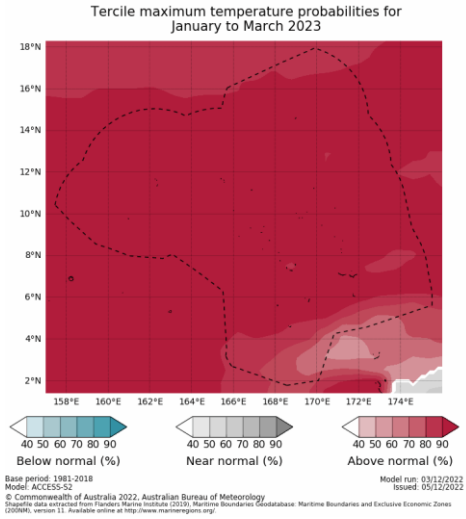
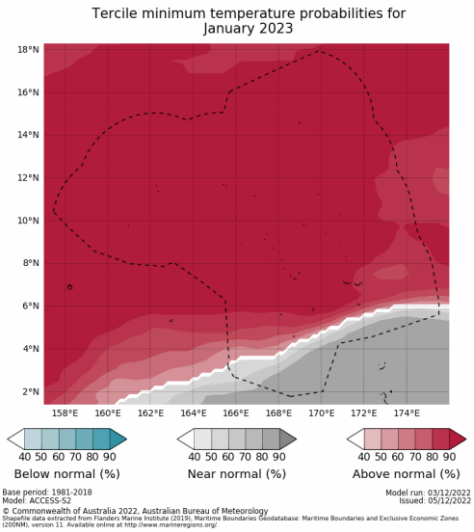
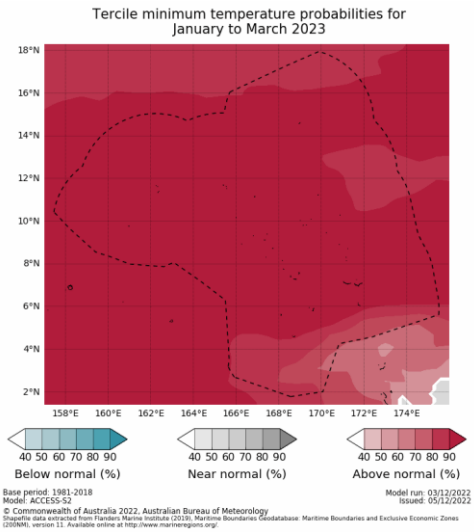
### TABLE 1: Monthly Rainfall

| Station (include data period) | Sep-2022 | Oct-2022 | Nov-2022 | | | | |
|---|---|---|---|---|---|---|---|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Majuro (1954-2022) | 450.1 | 476.5 | 310.1 | 287.8 | 381.1 | 326.6 | 31/69 |
| | | | | | | | |
| Kwajalein (1945-2022) | 186.4 | 457.7 | 230.9 | 234.8 | 327.2 | 277.9 | 23/78 |

### TABLE 2: Three-month Total Rainfall for September to November 2022

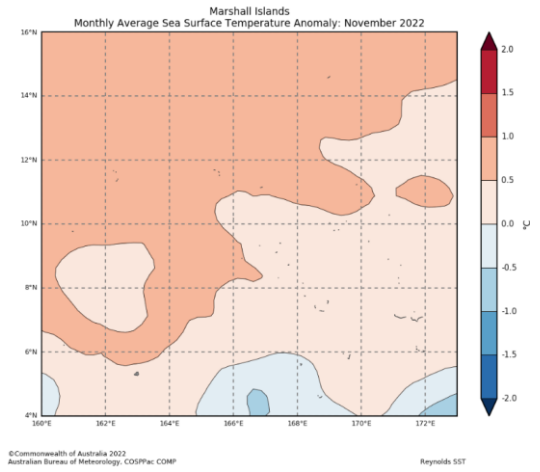
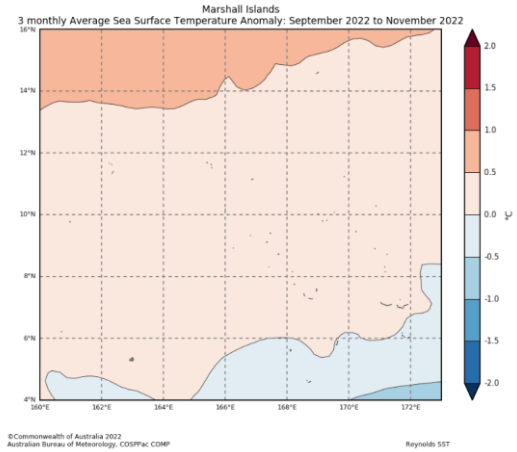
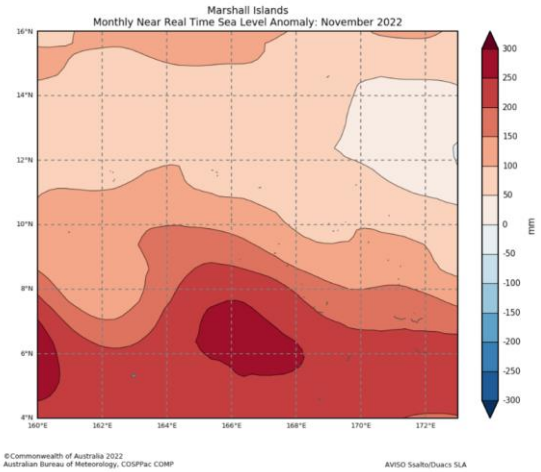
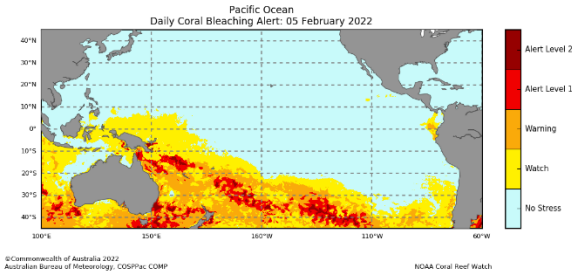
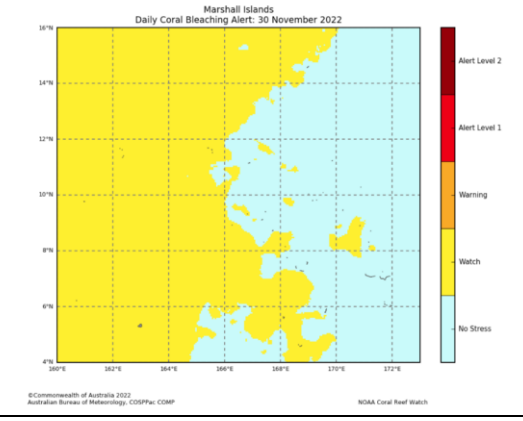
| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|---|---|---|---|---|---|---|
| | Rainfall (mm) | | | | | |
| Majuro (1954-2022) | 1236.7 | Above normal | 912.6 | 1098.8 | 994.7 | 59/69 |
| | | | | | | |
| Kwajalein (1945-2022) | 875.0 | Normal | 799.3 | 931.6 | 845.6 | 43/78 |

# Part 1i. Monthly and Seasonal Outlooks for January and January to March 2023

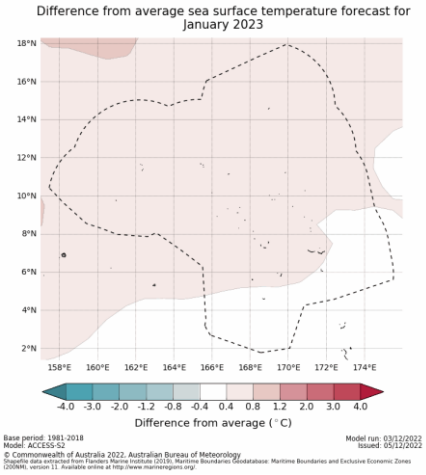
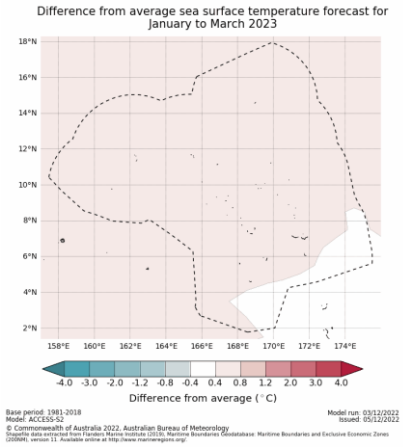
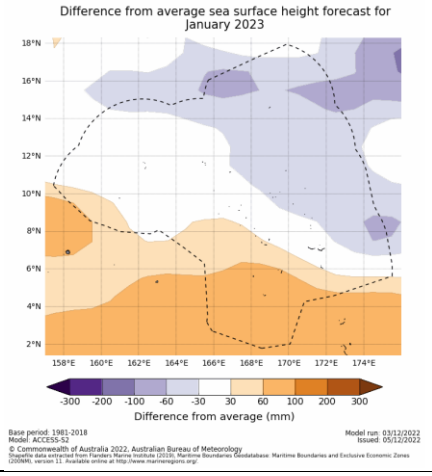
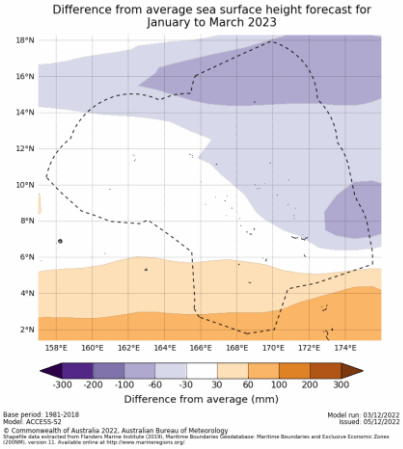
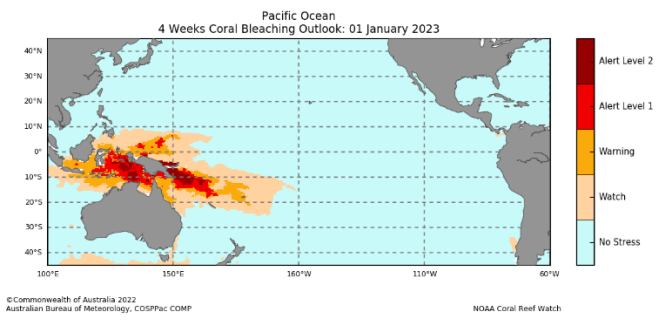
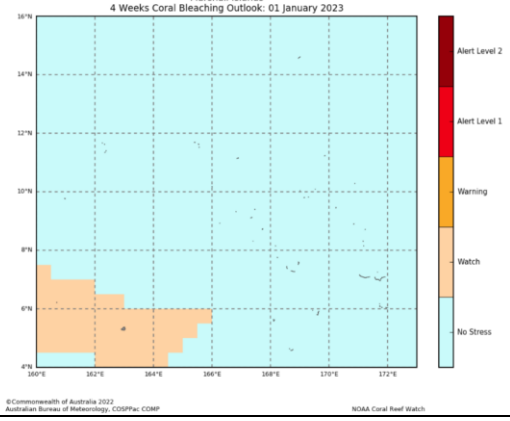
| Monthly: January | Seasonal: January to March |
|---|---|
| **Rainfall (Image 1)** | **Rainfall (Image 2)** |
|  |  |
| **Monthly Maximum temperature (Image 3):** | **Seasonal maximum temperature (Image 4):** |
|  |  |
| **Monthly minimum temperature (Image 5):** | **Seasonal minimum temperature (Image 6):** |
|  |  |

# Part 2: Recent Ocean Observation

## Monthly/Three months: November 2022 and September to November 2022

| **Monthly: November** | **Last three months: September to November 2022:** |
|---|---|
| **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 January and January to March 2023

| Monthly: January | Seasonal: January to March |
|---|---|
| **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: November 2022/September to November 2022 statement**

Normal rainfall was recorded at Majuro in November, while below normal rainfall was recorded at Kwajalein. For the last three months, above normal rainfall was recorded at Majuro and normal rainfall was recorded at Kwajalein.

## Part 1i. Monthly and Seasonal Outlooks for January and January to March 2023

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

The rainfall for January to March is very likely to be above normal for most atolls in the Marshall Islands. In the northern islands, the outlook offers little guidance for the month of January as the chances of above-normal, normal and below-normal are similar.

Maximum and minimum temperatures during January and averaged for January to March are very likely to be above normal for most of the Marshall Islands.

## Part 2: Recent Ocean summary statement

**Monthly and last three months: November/September to November 2022**

November ocean temperatures around the southern Marshalls, including Majuro, were 0.0 to 0.5 °C above average, while SSTs of 0.5 to 1.0°C above average were experienced by the northern islands, including Kwajalein.

Averaged over September to November, ocean temperatures across most of the Marshall Islands were 0.0 to 0.5°C above normal.

November sea levels were up to 100mm above normal across the northern half of the Marshall Islands, and between 100mm and 300mm above normal across the southern half.

Coral Bleaching alert was on WATCH status for the western chain of islands in the Republic during the month of November.

## Part 2i. Monthly and Seasonal Outlooks for January and January to March 2023

**Ocean Variable statement**

Ocean temperatures around the Marshall Islands in January and averaged over January to March, are predicted to be up to 0.8°C above normal.

Sea levels in January and averaged over January to March, are predicted to be around 30mm to 100mm below average in the north and east, grading to 30mm to 100mm above average in the south. Majuro and Kwajalein are in a region where sea levels are predicted to be within 30mm of normal.

The Coral Bleaching outlook is in NO STRESS status across the Marshall Islands.

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

| Product | Date: November 2022 | Stakeholder | Total Number of Participants | Number of male | Number of female |
|---|---|---|---|---|---|
| Climate Bulletin | | | | | |
| EAR Watch | | | | | |
| Monthly Climate Briefing | 11/21/2022 | Chief Secretary Office and National Disaster Management Office. | 6 | 2 | 4 |
| Ocean Outlook | | | | | |
| Climate data request | | | | | |
| | | **Total** | **6** | **2** | **4** |