

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 208

Country: Marshall Islands

Part 1: Recent climate

| Station (include data period) | Oct-2024 | Nov-2024 | Dec-2024 | | | | |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Majuro (1954-2024) | 377.2 | 360.2 | 413.5 | 216.6 | 331.0 | 278.2 | 57/71 |
| | | | | | | | |
| Kwajalein (1945-2024) | 279.5 | 306.6 | 156.0 | 132.3 | 202.3 | 162.1 | 36/79 |

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

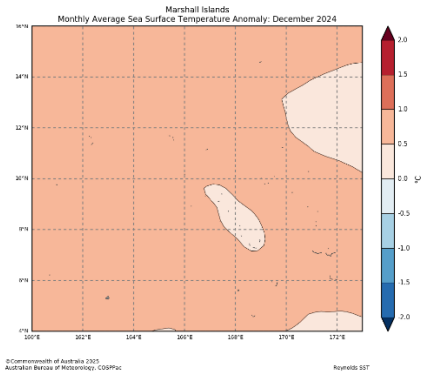
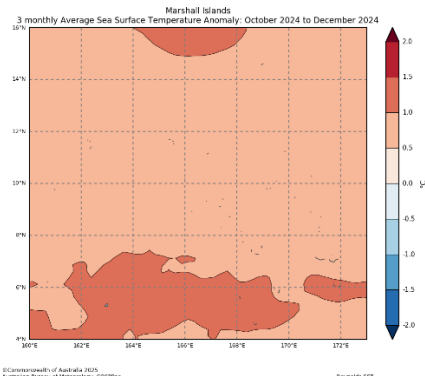
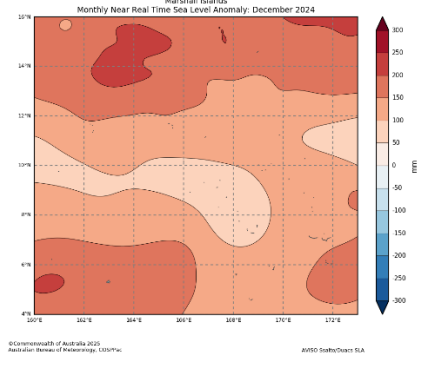
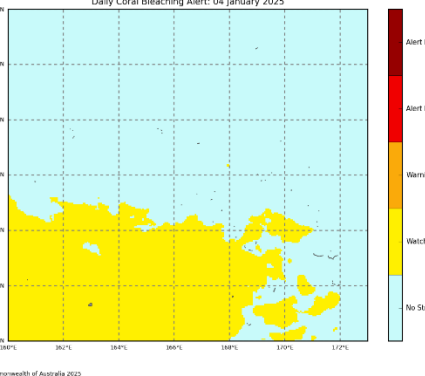
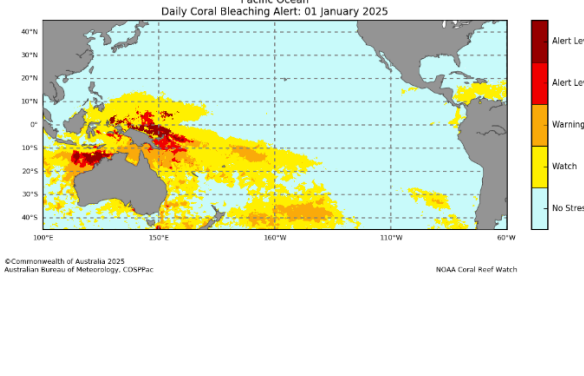
| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|-----------------------|-------------------|--------------|---------|---------|--------|-------|
| | Rainfall (mm) | | | | | |
| Majuro (1954-2024) | 1150.9 | Above normal | 869.6 | 1079.9 | 998.2 | 58/71 |
| | | | | | | |
| Kwajalein (1945-2024) | 742.1 | Normal | 729.1 | 838.0 | 775.9 | 30/79 |

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2025

| | |
|--|--|
| <div>Monthly: February</div> <div><p>Tercile rainfall probabilities for February 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 30/12/2024 Issued: 02/01/2025</p><p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019)</p></div> | <div>Seasonal: February to April</div> <div><p>Tercile rainfall probabilities for February to April 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 30/12/2024 Issued: 02/01/2025</p><p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019)</p></div> |
| <div>Monthly Maximum temperature (Image 3):</div> <div><p>Tercile maximum temperature probabilities for February 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 30/12/2024 Issued: 02/01/2025</p><p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019)</p></div> | <div>Seasonal maximum temperature (Image 4):</div> <div><p>Tercile maximum temperature probabilities for February to April 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 30/12/2024 Issued: 02/01/2025</p><p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019)</p></div> |
| <div>Monthly minimum temperature (Image 5):</div> <div><p>Tercile minimum temperature probabilities for February 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 30/12/2024 Issued: 02/01/2025</p><p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019)</p></div> | <div>Seasonal minimum temperature (Image 6):</div> <div><p>Tercile minimum temperature probabilities for February to April 2025</p><p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 30/12/2024 Issued: 02/01/2025</p><p>© Commonwealth of Australia 2025, Bureau of Meteorology, supported by CSIRO</p><p>-- EEZ border V11 (Flanders Marine Institute, 2019)</p></div> |

Part 2: Recent Ocean Observation

Monthly/Three months: December 2024 and October to December 2024

| | |
|--|--|
| <p>Monthly: December 2024</p> | <p>Last three months: October to December 2024:</p> |
| <p>Sea Surface Temperature Anomaly (Image 1):</p> | <p>Sea Surface Temperature Anomaly (Image 4):</p> |
|  <p>Marshall Islands Monthly Average Sea Surface Temperature Anomaly: December 2024</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p> |  <p>Marshall Islands 3 monthly Average Sea Surface Temperature Anomaly: October 2024 to December 2024</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p> |
| <p>Sea level anomaly (Image 2):</p> | |
|  <p>Marshall Islands Monthly Near Real Time Sea Level Anomaly: December 2024</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO Satellite Ocean SLA</p> | |
| <p>Daily coral bleaching alert (Image 3):</p> | |
|  <p>Marshall Islands Daily Coral Bleaching Alert: 04 January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> |  <p>Pacific Ocean Daily Coral Bleaching Alert: 01 January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> |

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2025

| Monthly: February | Seasonal: February to April |
|---|--|
| Monthly sea surface temperature anomaly (Image 5): | Seasonal sea surface temperature anomaly (Image 6): |
| <p>Difference from average sea surface temperature forecast for February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/01/2025 Issued: 06/01/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, Australian Law COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p>Difference from average sea surface temperature forecast for February to April 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/01/2025 Issued: 06/01/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, Australian Law COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> |
| Monthly sea level anomaly (Image 7): | Seasonal sea level anomaly (Image 8): |
| <p>Difference from average sea surface height forecast for February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/01/2025 Issued: 06/01/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, Australian Law COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p>Difference from average sea surface height forecast for February to April 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 04/01/2025 Issued: 06/01/2025</p> <p>© Commonwealth of Australia 2025, Bureau of Meteorology, Australian Law COSPPac</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> |
| 4-week Coral Bleaching (Image 9): | |
| <p>Pacific Ocean 12 Weeks Coral Bleaching Outlook: 23 March 2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> | <p>Marshall Islands 12 Weeks Coral Bleaching Outlook: 23 March 2025</p> <p>© Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p> |

Summary Statement

Monthly and last three months: December 2024/October to December 2024 statement

The rainfall for December and October to December was above normal for Majuro and normal for Kwajalein.

Part 1i. Monthly and Seasonal Outlooks for February and February to April 2025

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for February and February to April is likely or very likely to be above normal over most of the RMI. In the southernmost RMI, the outlook offers little guidance.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: December 2024/October to December 2024

December sea surface temperatures (SSTs) around the RMI were 0.5 to 1.0°C above normal except for two atolls in the central RMI where near normal SSTs were observed.

Averaged over October to December, sea surface temperatures around the RMI were 0.5 to 1.5 °C above normal.

December sea levels around the RMI were 50 to 250mm above normal. Higher sea levels were observed in the northern RMI.

A coral bleaching Watch status is currently in effect for the most part of the RMI's Exclusive Economic Zone (EEZ), as of January 01, 2025.

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2025

Ocean Variable statement

February and averaged over February to April sea surface temperatures for most of the RMI are predicted to be 0.4 to 1.2°C above normal.

February sea levels in the central RMI are predicted to be 60 to 300mm below normal. Near normal are predicted for the northern RMI and above normal for the northernmost RMI with 30 to 100mm.

Averaged over February, sea levels around the central RMI are predicted to be 30 to 100mm below normal. Near normal sea levels are predicted for northern RMI, while around 30 to 100mm above normal are predicted for the northernmost RMI.

Coral Bleaching outlook indicates No Stress for the next 12 weeks.

IN BRIEF for Teleconference

- The rainfall for December and October to December was above normal for Majuro and near normal for Kwajalein.
- The rainfall outlook generally indicates above normal most likely in February across the RMI, but offers little guidance for total rainfall over February to April in the southernmost part of the country.

- SSTs were above normal for December and October to December. The outlook shows above normal SSTs for the next one and three months.
- Sea levels were near-normal to below normal for December. Near-normal to below normal sea levels are predicted for February and February to April, except at the northernmost part of the country, sea levels are predicted to be above normal.
- Coral bleaching WATCH is in effect for most part of the RMI's EEZ. The outlook indicates NO STRESS status in the next three months.

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

| Product | Date: December 2024 | Stakeholder | Total Number of Participants | Number of Male | Number of Female | Disability | Age group | Comments (If there are comments from you Stakeholders) |
|--------------------------------|---------------------------|--|------------------------------------|-------------------|---------------------|------------|--------------|--|
| Climate Bulletin | | | | | | | | |
| EAR Watch | | | | | | | | |
| Monthly Climate Briefing | 12/16/2024 | Chief Secretary Office and National Disaster Management Office | 6 | 4 | 2 | | | |
| Ocean Outlook | | | | | | | | |
| Climate data request | | | | | | | | |
| Total | | | 6 | 4 | 2 | | | |