

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 202

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

| Station (include data period) | Apr-2024 | May-2024 | Jun-2024 | | | | Rank |
|-------------------------------|------------|------------|---------------|---------|---------|--------|-------|
| | | | Total (mm) | 33%tile | 67%tile | Median | |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| Koror (1951-2024) | 252.5 | 203.5 | 400.6 | 341.6 | 449.2 | 403.5 | 37/73 |

TABLE 2: Three-month Total Rainfall for April to June 2024

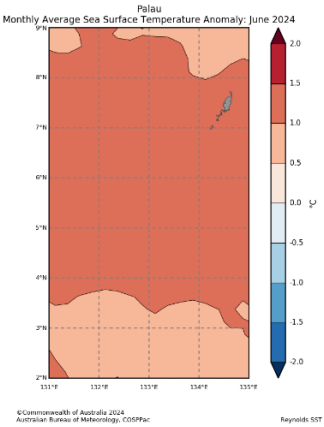
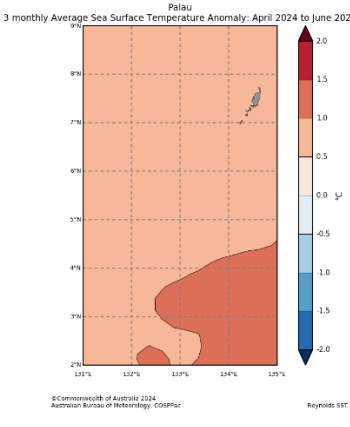
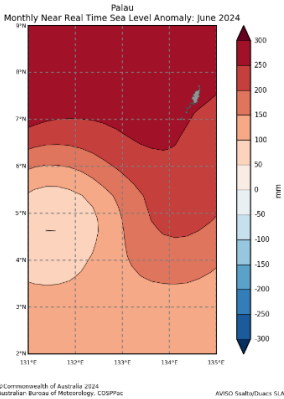
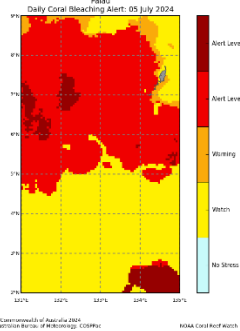
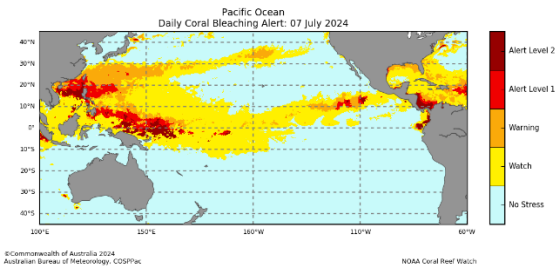
| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|-------------------|-------------------|--------------|---------|---------|--------|-------|
| | Rainfall (mm) | | | | | |
| Koror (1951-2024) | 856.6 | Below normal | 879.6 | 1029.6 | 953.9 | 21/73 |

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

| Monthly: August | Seasonal: August to October |
|---|--|
| Rainfall (Image 1) | Rainfall (Image 2) |
| <p style="text-align: center;">Tercile rainfall probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac.</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p style="text-align: center;">Tercile rainfall probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac.</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p> |
| Monthly Maximum temperature (Image 3): | Seasonal maximum temperature (Image 4): |
| <p style="text-align: center;">Tercile maximum temperature probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac.</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p style="text-align: center;">Tercile maximum temperature probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac.</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p> |
| Monthly minimum temperature (Image 5): | Seasonal minimum temperature (Image 6): |
| <p style="text-align: center;">Tercile minimum temperature probabilities for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac.</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p style="text-align: center;">Tercile minimum temperature probabilities for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">© Commonwealth of Australia 2024, Bureau of Meteorology, supported by COSPPac.</p> <p style="text-align: center;">-- -- EEZ border V11 (Flanders Marine Institute, 2019).</p> |

Part 2: Recent Ocean Observation

Monthly/Three months: June 2024 and April to June 2024

| <p>Monthly: June 2024</p> | <p>Last three months: April to June 2024:</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> | |
|  |  |

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

| Monthly: August | Seasonal: August to October |
|--|---|
| Monthly sea surface temperature (Image 5): | Seasonal sea surface temperature (Image 6): |
| <p style="text-align: center;">Difference from average sea surface temperature forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">Difference from average (°C)</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p style="text-align: center;">Difference from average sea surface temperature forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">Difference from average (°C)</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> |
| Monthly sea level (Image 7): | Seasonal sea level (Image 8): |
| <p style="text-align: center;">Difference from average sea surface height forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">Difference from average (mm)</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> | <p style="text-align: center;">Difference from average sea surface height forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 29/06/2024 Issued: 01/07/2024</p> <p style="text-align: center;">Difference from average (mm)</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p> |
| 4-week Coral Bleaching (Image 9): | |
| <p style="text-align: center;">Palau 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p style="text-align: right;">NOAA Coral Reef Watch</p> | <p style="text-align: center;">Pacific Ocean 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p style="text-align: right;">NOAA Coral Reef Watch</p> |

Summary Statement

Monthly and last three months: June 2024/April to June 2024 statement

The rainfall for June was normal over Koror and majority of the country. For the past three months, rainfall was below normal over Koror and majority of the country.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for August and August to October is very likely to be above normal over Koror and the entire country.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: June 2024/April to June 2024

June and averaged over April to June, ocean temperatures around majority of Palau were 1.0 to 1.5°C above normal and 0.5 to 1.0°C above normal, respectively.

June sea levels were 250mm to 300mm above normal around the main islands and 100mm to 150mm above normal over the southwest islands.

There is a coral bleaching 'Alert Level 1' for Koror, Peleliu, Angaur and Sonsorol.

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

Ocean Variable statement

Ocean temperatures around Palau for August and averaged over August to October are predicted to be 0.8 to 1.2°C above normal.

Sea levels around Palau for August and averaged over August to October are predicted to be near-normal.

The 4-week coral bleaching outlook shows 'Alert Level 2 and 1' for Palau.

IN BRIEF for Teleconference

- Rainfall was above normal for June and below normal for April to June.
- The rainfall outlook generally indicates above normal most likely in August and over August to October.
- SSTs were above normal for June and averaged over April to June. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for June. Near-normal sea surface heights are predicted for August and August to October.
- There is a coral bleaching 'Alert Level 1' for Koror, Peleliu, Angaur and Sonsorol. Coral bleaching outlook predicts 'Alert Level 2 and 1' for Palau.

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

| Product | Date: June 2024 | Stakeholder | Total Number of Participants | Number of Male | Number of Female | Comments (If there are comments from you Stakeholders) |
|---|--------------------------------|---|---|---------------------------|-----------------------------|---|
| Bulletin: Palau Ocean Bulletin | 3 | WSO Palau and social media platform | 16+ | 11+ | 5+ | Note: Bulletin created by Ocean Officer, Maylene Joshua Post Impressions: 432 Post Reach: 407 Engagement: 9 Like: 3 |
| Climate and Ocean Services virtual meeting | 3 | WSO Palau, UNEP Local Project Management Unit (PMU), Director of Koror State Rangers, UNEP Communications Consultant | 4 | 0 | 4 | |
| Sector Workshop on Developing Climate Sector Action and Communication Plan (CSACP) for Palau | 4-5 | WSO Palau, UNEP CISPac5 Consultant and Local PMU, Disaster Risk Reduction, Agriculture, Fisheries, Water, Health and Tourism Sectors. | 41+ | 20+ | 21+ | Post Impressions: 886 Post Reach: 840 Engagement: 86 Likes: 11 Heart: 2 Share: 1 |
| Bulletin: PICASO JJA Rainfall Outlook with Rainfall Probability% with APCC ENSO Status, Outlook and History | 6 | WSO Palau and social media platform | 15+ | 10+ | 5+ | Post Impressions: 699 Post Reach: 601 Engagement: 16 Like: 1, Heart: 1, Shares: 7 |
| Data Infographic for Monthly Rainfall and Temperature statistics | 6 | WSO Palau and social media platform | 23+ | 16+ | 7+ | Post Impressions: 905 Post Reach: 685 Engagement: 13 Like: 2, Shares: 5 |
| Palau's Island Climate Update | 6 | WSO Palau and social media platform | 18+ | 11+ | 7+ | Post Impressions: 867 Post Reach: 710 Engagement: 26 |

| | | | | | | |
|---|----|---|-----|-----|----|---|
| | | | | | | Like: 4 Heart: 1 Shares: 8 "Awesome work Kikuko Mochimaru." |
| EAR Watch | 11 | WSO Palau and social media platform | 16+ | 12+ | 4+ | Post Impressions: 723 Post Reach: 621 Engagement: 12 Likes: 3 Shares: 5 |
| Climate Summary and May 2024 Statistics | 13 | WSO Palau and social media platform | 17+ | 11+ | 6+ | Post Impressions: 587 Post Reach: 525 Engagement: 15 Like: 4 Shares: 2 |
| Bulletin: PEAC Outlook for June to Aug 2024 including NMME Rainfall, Ocean Temperatures, and SSTs Outlook for June and June to Aug 2024 | 13 | WSO Palau and social media platform | 14+ | 10+ | 4+ | Post Impressions: 588 Post Reach: 517 Engagement: 13 Like: 1, Shares: 3 |
| PEAC Conference Call | 14 | WSO and WFOs in the Pacific, PEAC, NOAA Regional Climate Services (Hawaii and US), US Drought Monitor | 17 | 13 | 4 | |
| Sharing: Hawaii and US Pacific Islands Regional Climate Summary 1st Quarter 2024 | 18 | WSO Palau and social media platform | 16+ | 10+ | 6+ | Post Impressions: 578 Post Reach: 499 Engagement: 10 Like: 3 Shares: 2 |
| Tailored OCOF 201 for Social Media | 21 | WSO Palau and social media platform | 15+ | 11+ | 4+ | Post Impressions: 556 Post Reach: 502 Engagement: 13 Like: 2 Shares: 3 |
| Bulletin : Palau Climate and Ocean Summary and Outlook | 21 | WSO Palau and social media platform | 14+ | 10+ | 4+ | Post Impressions: 449 Post Reach: 400 |

| | | | | | | |
|--|----|-------------------------------|-------------|-------------|------------|--|
| | | | | | | Engagement: 6 Like: 1 Shares: 3 |
| Climate Services Market Assessment Field Mission meeting | 28 | WSO Palau and UNEP Consultant | 3 | 1 | 2 | |
| Total | | | 229+ | 146+ | 83+ | Plus sign= additional viewers on social media |