

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 206

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2024	Sep-2024	Oct-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror (1951-2024)	233.4	412.8	205.0	266.4	363.2	308.6	8/74

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

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror (1951-2024)	851.2	Below normal	940.8	1116.8	1032.0	12/74

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

Monthly: December	Seasonal: December to February
Rainfall (Image 1)	Rainfall (Image 2)
<p style="text-align: center;">Tercile rainfall probabilities for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 28/10/2024 Issued: 31/10/2024</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 December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 28/10/2024 Issued: 31/10/2024</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;">Difference from average mean maximum temperature forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 28/10/2024 Issued: 31/10/2024</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;">Difference from average mean maximum temperature forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 28/10/2024 Issued: 31/10/2024</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;">Difference from average mean minimum temperature forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 28/10/2024 Issued: 31/10/2024</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;">Difference from average mean minimum temperature forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 28/10/2024 Issued: 31/10/2024</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: October 2024 and August to October 2024

<p>Monthly: October 2024</p>	<p>Last three months: August to October 2024:</p>
<p>Sea Surface Temperature Anomaly (Image 1):</p>	<p>Sea Surface Temperature Anomaly (Image 4):</p>
<p>Palau Monthly Average Sea Surface Temperature Anomaly: October 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPac</p> <p>Figure 1A8 SST</p>	<p>Palau 3 monthly Average Sea Surface Temperature Anomaly: August 2024 to October 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPac</p> <p>Figure 1A8 SST</p>
<p>Sea level anomaly (Image 2):</p>	
<p>Palau Monthly Near Real Time Sea Level Anomaly: October 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPac</p> <p>AWSO SeaNet/Decade SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>	
<p>Palau Daily Coral Bleaching Alert: 03 November 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPac</p> <p>NOAA Coral Reef Watch</p>	

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

Monthly: December	Seasonal: December to February
<p>Monthly sea surface temperature anomaly (Image 5):</p> <p>Difference from average sea surface temperature forecast for December 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/11/2024 Issued: 04/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac.</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Seasonal sea surface temperature anomaly (Image 6):</p> <p>Difference from average sea surface temperature forecast for December 2024 to February 2025</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 02/11/2024 Issued: 04/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac.</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>Monthly sea level anomaly (Image 7):</p> <p>Difference from average sea surface height forecast for December 2024</p> <p>Base period: 1993-2018 Model: ACCESS-S2 Model run: 02/11/2024 Issued: 04/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac.</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Seasonal sea level anomaly (Image 8):</p> <p>Difference from average sea surface height forecast for December 2024 to February 2025</p> <p>Base period: 1993-2018 Model: ACCESS-S2 Model run: 02/11/2024 Issued: 04/11/2024</p> <p>© Commonwealth of Australia 2024. Bureau of Meteorology, supported by COSPPac.</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Palau 4 Weeks Coral Bleaching Outlook: 17 November 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	

Summary Statement

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

The rainfall for October and August to October was below normal over Koror.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for December and the next three months is very likely to be above normal over Palau.

Maximum and minimum temperatures during December and averaged over the next three months are very likely to be near normal over Palau.

Part 2: Recent Ocean summary statement

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

October sea surface temperatures (SSTs) around Palau were 0.5 to 1.0°C above normal.

Averaged over August to October, sea surface temperatures around Babeldaob were 1.0 to 1.5°C above normal. Sea surface temperatures around Koror and remaining islands were 0.5 to 1.0°C above normal.

October sea levels around northern half of Babeldaob were 200 to 250mm above normal, around Koror through Sonsorol were 150mm to 200mm above normal, and around Hatohobei were 100mm to 150mm above normal.

A coral bleaching Watch status is in effect for Palau as of November 3, 2024, except for a patch of Alert Level 2 on the far east of the EEZ.

Part 2i. Monthly and Seasonal Outlooks for December and December to January 2025

Ocean Variable statement

December sea surface temperatures and averaged over December to January around Palau are predicted to be 0.8 to 1.2°C above normal.

December sea levels around the main islands are predicted to be 30 to 60mm below normal and around Hatohobei are predicted to be 30 to 60mm above normal.

Averaged over December to January, sea levels around the main islands and Sonsorol are predicted to be 30 to 60mm below normal.

Coral Bleaching outlook indicates Warning for Hatohobei and a Watch status for the remaining islands for the next 4 weeks.

IN BRIEF for Teleconference

- Rainfall was below normal for October and August to October.
- The rainfall outlook generally indicates above normal most likely in December and for total rainfall over December to February.
- SSTs were above normal for October and August to October. The outlook shows above normal SSTs for Palau for the next one and three months.
- Sea levels were above normal for October. Above normal sea levels are predicted for December for Hatohebei and below normal sea levels for the main islands. Below normal sea levels for the main islands and Sonsorol for the next three months.

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

Product	Date: October 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Monthly 24-hr Rainfall, Maximum and Minimum Temperatures Data infographic	4	WSO Palau and WSOs in the region, WFO Guam, Pacific ENSO Applications Climate Services (PEAC), NOAA Climate Prediction Center (CPC), US Drought Monitor for USAPI, Palau Public Utilities Corporation (PPUC), other US partners and social media	14+	10+	4+	Post Impressions: 485 Post reached: 460 Engagement: 6 Likes: 2 Shares: 2
Climate Bulletin: Locally tailored APCC	7	WSO Palau and social media	20+	13+	7+	Post Impressions: 1218 Post reached: 1102 Engagement: 36 Likes:7 Shares: 6
Locally tailored Island Climate Update	7	WSO Palau and social media	14+	10+	4+	Post Impressions: 700 Post reached: 635 Engagement: 18 Likes: 2 Shares: 4

EAR Watch	8	WSO Palau and social media	14+	10+	4+	Post Impressions: 594 Post reached: 511 Engagement: 10 Likes: 2 Shares: 3
PICOF-15	14-15	Regional reps, WSOs and MET services in the region	34	21	13	
Palau Fisheries Bulletin	15	WSO Palau, Fisheries and Agriculture stakeholders, and social media	52+	30+	22+	Post Impressions: 707 Post reached: 660 Engagement: 36 Likes: 5 Shares: 2
Regional Training Workshop on Climate Prediction and the PICASO	16-18 21-28	UNEP-CISPac5 countries and others	18+	11+	7+	Post Impressions: 676 Post reached: 660 Engagement: 18 Likes: 2 Shares: 5
Regional Training Workshop on Climate Prediction and the PICASO Results by APCC and WSO Palau	16-18 21-28	UNEP-CISPac5 countries, trainees and trainers	15+	10+	5+	Post Impressions: 692 Post reached: 647 Engagement: 26 Likes: 3 Share:1 Good day Koror, i used to receiving radio signals on the AM band during the 90s from your area.

Fisheries Bulletin	22	WSO Palau, Fisheries and Agriculture stakeholders, and social media	34+	17+	17+	Post Impressions: 667 Post reached: 623 Engagement: 34
Regional Training Workshop on Climate Prediction and the PICASO Results by APCC and WSO Palau	28	UNEP-CISPac5 countries, trainees and trainers	15+	10+	5+	Post Impressions: 678 Post reached: 662 Engagement: 18 Likes: 2 Shares: 5
Total			230+	142+	88+	