

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 197

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2023	Dec-2023	Jan-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror (1951-2024)	242.6	214.1	329.2	185.2	310.6	233.0	51/73

TABLE 2: Three-month Total Rainfall for November 2023 to January 2024

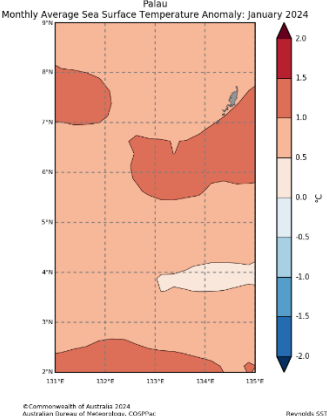
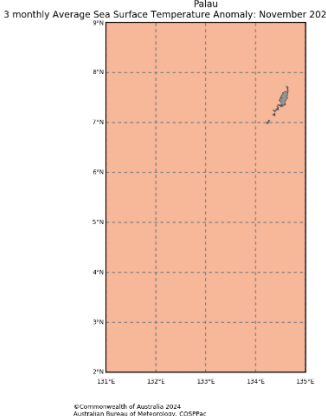
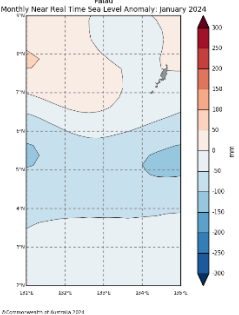
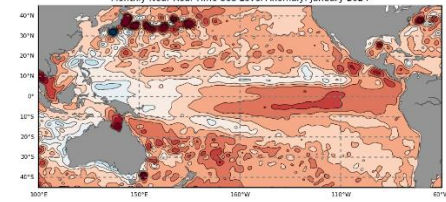
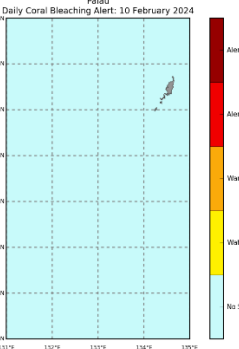
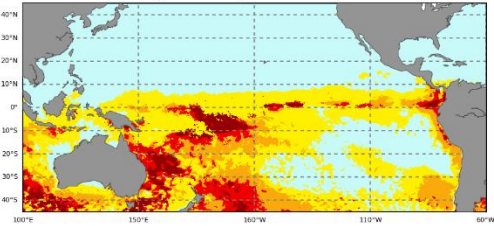
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror (1951-2024)	785.9	Normal	778.6	962.9	869.3	26/73

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2024

Monthly: March	Seasonal: March to May
<p>Rainfall (Image 1)</p> <p>Tercile rainfall probabilities for March 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineengins.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>	<p>Rainfall (Image 2)</p> <p>Tercile rainfall probabilities for March to May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineengins.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>
<p>Monthly Maximum temperature (Image 3):</p> <p>Tercile maximum temperature probabilities for March 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineengins.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>	<p>Seasonal maximum temperature (Image 4):</p> <p>Tercile maximum temperature probabilities for March to May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineengins.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>
<p>Monthly minimum temperature (Image 5):</p> <p>Tercile minimum temperature probabilities for March 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineengins.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>	<p>Seasonal minimum temperature (Image 6):</p> <p>Tercile minimum temperature probabilities for March to May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marineengins.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>

Part 2: Recent Ocean Observation

Monthly/Three months: January 2024 and November 2023 to January 2024

Monthly: January 2024	Last three months: November 2023 to January 2024:
<p>Sea Surface Temperature (Image 1):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac JERS SeaWiFS SIA</p>	 <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac AVISO SeaWiFS/QuikSCAT SIA</p>
<p>Daily coral bleaching alert (Image 3):</p>  <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	 <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2024

Monthly: March	Seasonal: March to May
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for March 2024</p> <p>Difference from average (°C)</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Diagnostic data extracted from Forecast Marine Institute (2023). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2020M), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 10/02/2024 Issued: 12/02/2024</p>	<p>Difference from average sea surface temperature forecast for March to May 2024</p> <p>Difference from average (°C)</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Diagnostic data extracted from Forecast Marine Institute (2023). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2020M), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 10/02/2024 Issued: 12/02/2024</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<p>Difference from average sea surface height forecast for March 2024</p> <p>Difference from average (mm)</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Diagnostic data extracted from Forecast Marine Institute (2023). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2020M), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 10/02/2024 Issued: 12/02/2024</p>	<p>Difference from average sea surface height forecast for March to May 2024</p> <p>Difference from average (mm)</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Diagnostic data extracted from Forecast Marine Institute (2023). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2020M), version 1.1. Available online at http://www.marine.gov.au</p> <p>Model run: 10/02/2024 Issued: 12/02/2024</p>
4-week Coral Bleaching (Image 9):	
<p>Palau 4 Weeks Coral Bleaching Outlook: 03 March 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 03 March 2024</p> <p>Alert Level 2 Alert Level 1 Warning Watch No Stress</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: January 2024/November 2023 to January 2024 statement

The rainfall for January was above normal over Koror. For the past three months, rainfall was near-normal over Koror.

Part 1i. Monthly and Seasonal Outlooks for March and March to May 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for March is likely to be below normal over the main islands and Sonsorol. In Hatohobei, the outlook shows March's rainfall is likely to be near-normal.

The rainfall for March to May is likely to be below normal over the main islands. At Sonsorol, March to May's rainfall is likely to be near-normal, while Hatohobei is very likely to receive above normal rainfall.

Maximum and minimum temperatures during March and averaged over March to May are very likely to be above normal across the country.

Part 2: Recent Ocean summary statement

Monthly and last three months: January 2024/November 2023 to January 2024

January and averaged over November to January, ocean temperatures around Palau were 0.5 to 1.0°C above normal.

January sea levels around Sonsorol were 50mm to 100mm below normal. January sea levels around the main islands and Hatohobei were near normal.

Coral bleaching alert status is at a 'No Stress' for Palau.

Part 2i. Monthly and Seasonal Outlooks for March and March to May 2024

Ocean Variable statement

March and averaged over March to May, ocean temperatures around Palau are predicted to be 0.4 to 0.8°C above normal.

March sea levels around the southwest islands are predicted to be 60mm to 100mm below normal and 30mm to 60mm above normal for northern main islands.

Averaged over March to May, sea levels around Palau are predicted to be near normal.

Coral bleaching outlook for the next four weeks is at a 'Watch' for Hatohobei.

IN BRIEF for Teleconference

- Rainfall was below normal for January and near-normal for November to January.
- The rainfall outlook generally indicates below normal likely in March for northern and central Palau. March to May's outlook is similar, but with above normal rainfall likely for southern Palau.
- SSTs were below normal for January and November to January. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSH) were below normal for January. Below normal sea surface heights are predicted for March for the southwest islands and above normal for the northern main islands and near normal for March to May.

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

Product	Date: January 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Palau Weekly Weather Bulletin	2	WSO Palau and social media platform.	16+	12+	4+	Impressions: 858 Reached: 775 Engagement: 30 Likes: 2 Heart: 1 Shares: 2
24-hour Monthly Rainfall and Average Temperature Data Infographic	3	WSO Palau and social media platform	17+	11+	6+	Impressions: 443 Reached: 414 Engagement: 15 Likes: 4 Shares: 1
Palau Seasonal Rainfall Outlook for Jan to Mar 2024 and Climate Data Infographic	3	WSO Palau and social media platform	16+	11+	5+	Impressions: 791 Reached: 733 Engagement: 136 Likes: 4 Shares: 1
Data Infographics on Monthly and Seasonal Outlooks within the region.	5	WSO Palau and social media platform	16+	12+	4+	Impressions: 580 Reached: 548 Engagement: 38 Likes: 4 Shares: 1
Palau Weekly Weather Bulletin	9	WSO Palau and social media platform.	15+	11+	4+	Impressions: 425 Reached: 385 Engagement: 11 Likes: 2
EAR Watch	10	WSO Palau and social media platform.	21+	14+	7+	Impressions: 822 Reached: 750 Engagement: 44 Likes: 6

						Shares: 3
PEAC and Climate Data Infographics	11-12	WSO Palau and social media platform.	16+	12+	4+	Impressions: 667 Reached: 611 Engagement: 32 Likes: 1 Shares: 4
Palau Weekly Weather Bulletin	15	WSO Palau and social media platform.	19+	14+	5+	Impressions: 648 Reached: 596 Engagement: 31 Likes: 5
La Nina 2023 vs El Nino 2024 January Rainfall Data Infographic	15	WSO Palau and social media platform.	19+	14+	5+	Impressions: 645 Reached: 540 Engagement: 16 Likes: 4 Shares: 3
APCC, PICASO-CoCO and 2023 Koror Rainfall Data Infographic	17	WSO Palau and social media platform.	16+	12+	4+	Impressions: 420 Reached: 395 Engagement: 13 Likes: 1 Shares: 1
OCOF Outlooks for Feb and Feb to Apr 2024 and Climate Data Infographic Dec and Oct to Dec 2023	17	WSO Palau and social media platform.	17+	13+	4+	Impressions: 584 Reached: 551 Engagement: 21 Likes: 2 Shares: 2
OCOF Outlooks for Feb and Feb to Apr 2024 and Climate Data Infographic Dec and Oct to Dec 2023	18	WSO Palau and social media platform.	20+	13+	7+	Impressions: 635 Reached: 571 Engagement: 32 Likes: 4 Heart: 1 Shares: 2
APPC Global Climate Outlook FB page	19	WSO Palau and social media platform.	17+	13+	4+	Likes: 2 Shares: 2 No insights because it was a shared post.
Palau Weekly Weather Bulletin	19	WSO Palau and social media platform.	20+	15+	5+	Impressions: 1072 Reached: 987 Engagement: 42 Likes: 5 Shares: 4
Palau Weekly Weather Bulletin	23 updated on the 26	WSO Palau and social media platform.	16+	12+	4+	Impressions: 411 Reached: 384 Engagement: 12

						Likes: 1 Shares: 1
Climate and Ocean Bulletin	24	WSO Palau and social media platform.	22+	16+	6+	Impressions: 1082 Reached: 945 Engagement: 27 Likes: 7 Shares: 2
Palau Weekly Weather Bulletin	29	WSO Palau and social media platform.	18+	13+	5+	Impressions: 407 Reached: 372 Engagement: 30 Likes: 3 Shares: 3
Climate Story: What's the difference between Weather and Climate and 2023 Palau Climate Summary Data Infographic	30	WSO Palau and social media platform.	16+	12+	4+	Impressions: 1070 Reached: 1034 Engagement: 56 Likes: 1 Shares: 3
Climate Story: January 2024 Rainfall and Temperature and Jan 2023 vs Jan 2024 Data Infographic	31	WSO Palau and social media platform.	24+	16+	8+	Impressions: 493 Reached: 450 Engagement: 32 Likes: 1 Shares: 3
National Climate Change Workshop: Strengthening Palau's response to Climate Change	31	ROP President, Gov Assoc., WSO Palau, NEC, NGOs, civil society, private sector, and media.	84	36	48	
Total			425+	282+	143+	Plus sign indicates more than what is documented. Social media insights does not provide gender statistics for specific posts, just an overall trend.

