

Country: Palau

Part 1: Recent climate

TABLE 1:

Station (include data period)	Feb-2024	Mar-2024	Apr-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror (1951-2024)	294.1	80.8	252.5	173.7	256.9	202.2	48/73

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

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror (1951-2024)	627.4	Normal	572.6	780.3	674.1	31/73

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

Monthly: June	Seasonal: June to August
Rainfall (Image 1)	Rainfall (Image 2)
<div><p>Tercile rainfall probabilities for June 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p><p>Model run: 06/05/2024 Issued: 08/05/2024</p></div>	<div><p>Tercile rainfall probabilities for June to August 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p><p>Model run: 06/05/2024 Issued: 08/05/2024</p></div>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<div><p>Tercile maximum temperature probabilities for June 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p><p>Model run: 06/05/2024 Issued: 08/05/2024</p></div>	<div><p>Tercile maximum temperature probabilities for June to August 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p><p>Model run: 06/05/2024 Issued: 08/05/2024</p></div>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<div><p>Tercile minimum temperature probabilities for June 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p><p>Model run: 06/05/2024 Issued: 08/05/2024</p></div>	<div><p>Tercile minimum temperature probabilities for June to August 2024</p><p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024. Australian Bureau of Meteorology Shapelite data extracted from Flanders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimergions.org/</p><p>Model run: 06/05/2024 Issued: 08/05/2024</p></div>

Part 2: Recent Ocean Observation

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

Monthly: April 2024	Last three months: February to April 2024:
Sea Surface Temperature (Image 1): <div><p>Palau Monthly Average Sea Surface Temperature Anomaly: April 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	Sea Surface Temperature (Image 4): <div><p>Palau 3 monthly Average Sea Surface Temperature Anomaly: February 2024 to April 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>
Sea level (Image 2): <div><p>Palau Monthly Near Real Time Sea Level Anomaly: April 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>Reynolds SST</p></div>	
Daily coral bleaching alert (Image 3): <div><p>Palau Daily Coral Bleaching Alert: 05 May 2024</p><p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p><p>NOAA Coral Reef Watch</p></div>	

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

Monthly: June	Seasonal: June to August
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<div>Difference from average sea surface temperature forecast for June 2024</div> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimesegions.org/</p> <p>Model run: 06/05/2024 Issued: 08/05/2024</p>	<div>Difference from average sea surface temperature forecast for June to August 2024</div> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimesegions.org/</p> <p>Model run: 06/05/2024 Issued: 08/05/2024</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<div>Difference from average sea surface height forecast for June 2024</div> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimesegions.org/</p> <p>Model run: 06/05/2024 Issued: 08/05/2024</p>	<div>Difference from average sea surface height forecast for June to August 2024</div> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimesegions.org/</p> <p>Model run: 06/05/2024 Issued: 08/05/2024</p>
4-week Coral Bleaching (Image 9):	
<div>Palau 4 Weeks Coral Bleaching Outlook: 02 June 2024</div> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, CSIRO NOAA Coral Reef Watch</p>	

Summary Statement

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

The rainfall for April and February to April was near-normal over Koror and majority of the main islands.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for June is likely to be above normal over the northern main islands, including northern Koror, and also the southwest islands.

The rainfall for June to August is very likely to be above normal over Palau.

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

Part 2: Recent Ocean summary statement

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

April ocean temperatures were 0.5 to 1.0°C above normal around the southwest islands and near-normal elsewhere.

Averaged over February to April, ocean temperatures around Palau were 0 to 0.5°C above normal.

April sea levels were 150 to 200mm above normal around the main islands, 100 to 150mm above normal for Sonsorol, and 50 to 100mm above normal for Hatohobei.

Coral Bleaching Alert Status is at 'Warning' for Hatohobei and 'Watch' for the main islands.

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

Ocean Variable statement

June and averaged over June to August, ocean temperatures are predicted to be 0.8 to 1.2°C above normal.

June sea levels around Palau are predicted to be 60 to 100mm above normal.

Averaged over June to August, sea levels around Palau are predicted to be near normal.

The 4-week coral bleaching outlook shows 'Level 1' status for Hatohobei.

IN BRIEF for Teleconference

- Rainfall was near-normal for both April and February to April.
- The rainfall outlook generally indicates above normal is likely or very likely for June and June to August.
- SSTs were near-normal to above normal for April and February to April. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for April. Above normal SSHs are predicted for June and near-normal for June to August.
- Coral Bleaching Alert Status is at 'Level 1' for Hatohobei

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

Product	Date: April 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Data request for Wind Forecast	1	Coral Reef Research Foundation and WSO Palau	2	0	2	When are the trade winds going to weaken?
Data Request for Monthly Rainfall and Temps for Palau Climate Stats Yearbook	1	Office of Planning & Statistics, Bureau of Budget & Planning, Ministry of Finance	2	1	1	Please will you update the tables attached, including the previous years?
NIWA Island Climate Update	5	Social media and WSO Palau	13+	9+	4+	
OCOF 200 Video	7	WSO Palau, SPREP	2	1	1	
EAR Watch	8	WSO Palau and social media	15+	10+	5+	Post Impressions: 709 Post reach: 661 Engagement: 18 Likes: 2 Share: 1
Climate Story and Palau Rainfall April La Nina 2023 vs April El Nino 2024	8	WSO Palau and social media	17+	11+	6+	Post Impressions: 1624 Post reach: 1560 Engagement: 26 Likes: 4 Shares: 5
Palau Island Climate Update	9	WSO Palau, social media, agriculture	14+	10+	4+	Post Impressions: 2207 Post reach: 1900 Engagement: 15 Likes: 4 Share: 1
Pacific ENSO Applications Climate Services	12	WSO Palau and social media	18+	12+	6+	Post Impressions: 718

(PEAC) Outlook						Post reach: 658 Engagement: 29 Likes: 4 Share: 3
APCC Outlook Tailored for Palau	12	WSO Palau, social media	15+	11+	4+	Post Impressions: 877 Post reach: 807 Engagement: 29 Likes: 2 Share: 3
Palau OCOF Outlook Bulletin	16	WSO Palau, social media, agriculture	15+	10+	5+	Post Impressions: 874 Post reach: 786 Engagement: 37 Likes: 2 Shares: 2
Palau Climate and Ocean Bulletin	19	WSO Palau, social media, agriculture sector	18+	12+	6+	Post Impressions: 447 Post reach: 396 Engagement: 26 Likes: 4 Heart: 1 Shares: 5
APCC Regional Outlook	19	WSO Palau, social media	13+	9+	4+	
Climate data request	23	VMJ Construction Company and WSO Palau	2	1	1	Your forecast on point. We are going to be bothering you again to be pouring large amount of cement.
Climate data request	26	Customer and WSO Palau	2	1	1	
Climate data request and Climate Briefing via	19-29	Bureau of Agriculture and WSO Palau	2	1	1	Thanks again. I feel like I am going to be an expert on

phone calls, emails and social media posts on various climate bulletin tailored for Palau.						climate change after I view all these documents. They are very interesting and I am beginning to understand the climate and weather trends for Palau and the region.
Climate data request and Climate Briefing	30	Paddling Palau and WSO Palau	2	1	1	Thank you so much, I didn't know all of this.
Total			152+	100+	52+	+ social media posts