

Country: Palau

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2024	Apr-2024	May-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Koror (1951-2024)	80.8	252.5	203.5	259.9	360.3	304.0	7/73

TABLE 2: Three-month Total Rainfall for March to May 2024

Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Koror (1951-2024)	536.8	Below normal	680.9	861.5	791.7	11/73

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2024

Monthly: July	Seasonal: July to September
Rainfall (Image 1)	Rainfall (Image 2)
Tercile rainfall probabilities for July 2024 Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimeregions.org/ Model run: 03/06/2024 Issued: 05/06/2024	Tercile rainfall probabilities for July to September 2024 Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimeregions.org/ Model run: 03/06/2024 Issued: 05/06/2024
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
Tercile maximum temperature probabilities for July 2024 Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimeregions.org/ Model run: 03/06/2024 Issued: 05/06/2024	Tercile maximum temperature probabilities for July to September 2024 Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimeregions.org/ Model run: 03/06/2024 Issued: 05/06/2024
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
Tercile minimum temperature probabilities for July 2024 Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimeregions.org/ Model run: 03/06/2024 Issued: 05/06/2024	Tercile minimum temperature probabilities for July to September 2024 Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapfile data extracted from Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.maritimeregions.org/ Model run: 03/06/2024 Issued: 05/06/2024

Part 2: Recent Ocean Observation

Monthly/Three months: May 2024 and March to May 2024

<u>Monthly: May 2024</u>	<u>Last three months: March to May 2024:</u>
Sea Surface Temperature (Image 1):	Sea Surface Temperature (Image 4):
Palau Monthly Average Sea Surface Temperature Anomaly: May 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST	Palau 3 monthly Average Sea Surface Temperature Anomaly: March 2024 to May 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac Reynolds SST
Sea level (Image 2):	
Palau Monthly Near Real Time Sea Level Anomaly: May 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac AVISO SeaWiFS SLA	
Daily coral bleaching alert (Image 3):	
Palau Daily Coral Bleaching Alert: 04 June 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch	Pacific Ocean Daily Coral Bleaching Alert: 04 June 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2024

Monthly: July	Seasonal: July to September
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
Difference from average sea surface temperature forecast for July 2024 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 (205NM), version 11. Available online at http://www.maritimerregions.org/ Model run: 03/06/2024 Issued: 05/06/2024	Difference from average sea surface temperature forecast for July to September 2024 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 (205NM), version 11. Available online at http://www.maritimerregions.org/ Model run: 03/06/2024 Issued: 05/06/2024
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
Difference from average sea surface height forecast for July 2024 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 (205NM), version 11. Available online at http://www.maritimerregions.org/ Model run: 03/06/2024 Issued: 05/06/2024	Difference from average sea surface height forecast for July to September 2024 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 (205NM), version 11. Available online at http://www.maritimerregions.org/ Model run: 03/06/2024 Issued: 05/06/2024
4-week Coral Bleaching (Image 9):	
4 Weeks Coral Bleaching Outlook: 30 June 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch	4 Weeks Coral Bleaching Outlook: 23 June 2024 ©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch

Summary Statement

Monthly and last three months: May 2024/March to May 2024 statement

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

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2024

Monthly /Seasonal rainfall and temperature Outlook statements

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

Maximum and minimum temperatures during July and averaged over July to September are very likely to be above normal over the entire country.

Part 2: Recent Ocean summary statement

Monthly and last three months: May 2024/March to May 2024

May ocean temperatures around the southwest islands and the southern main islands were 1.0 to 1.5°C and 0.5 to 1.0°C above normal, respectively.

Averaged over March to May, ocean temperatures around Hatohebi were 0.5 to 1.0°C above normal and near-normal elsewhere.

May sea levels around the main islands were 200mm to 250mm above normal. Sea levels around Sonsorol were 100mm to 150mm and Hatohebi were 50mm to 100mm above normal.

There is a coral bleaching 'Alert Level 1' for the southwest island of Hatohebi.

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2024

Ocean Variable statement

July and averaged over July to September ocean temperatures around the main islands are predicted to be 0.8 to 1.2°C above normal.

July sea levels are predicted to be 30mm to 60mm above normal around the southwest island of Sonsorol and near-normal elsewhere

Averaged over July to September, sea levels around Palau are predicted to be near-normal.

The 4-week coral bleaching outlook shows 'Alert Level 1' status for the main islands and 'Alert Level 2' status for the southwest islands.

IN BRIEF for Teleconference

- Rainfall was below normal for May and March to May.
- The rainfall outlook generally indicates above normal most likely in July and for total rainfall over July to September.
- SSTs were near normal to above normal for May and March to May. The outlook for the region shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for May. Near normal to above normal sea surface heights are predicted for July and near-normal for July to September.

- Daily coral bleaching 'Alert Level 1' for Hatohobei. The 4-week coral bleaching 'Alert Level 1' for the main islands and 'Alert Level 2' for the southwest islands.

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

Product	Date: May 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
April statistics for all stations; manual and automated.	2	WSO Palau and social media platform.	15+	11+	4+	Post impressions: 729 Post reach: 709 Engagement: 32 Likes: 2 Shares: 6
Climate info request	2	Agriculture Officer and a women's group	21	1	20	The information are all good but we needed someone from the climate change office or the Weather Station to come and explain.
CLiDE and WSO Palau Daily and Monthly Data	6	WSO Palau and BoM	2	1	1	Thank you, so is WSO Palau correct and up to date now. Is there any data (daily or monthly) missing that isn't in CLiDE?
Data request	9	VMJ Construction and WSO Palau	2	1	1	Alii Kiku, ungil tutau, I'm pouring again (concrete), what's the best day between Sunday and Wednesday, we will be pouring 9am to 2pm.
Data request feedback	10	VMJ Construction and WSO Palau	2	1	1	I'm getting a kick out of your forecasting, really accurate. My

						guys are freaking out how I know the weather timing. Good job for you!
PEAC Climate Conference Call	10	PEAC, US Drought Monitor, WSOs and WFOs, and Pacific Region participants	16	13	3	
Locally tailored PEAC Seasonal Probability Outlook MJJ 2024	10	PEAC, WSO Palau, and social media	32+	23+	9+	Post impressions: 513 Post reach: 494 Engagement: 12 Likes: 3 Shares: 7
Melekeok data request	10	Melekeok Gov and WSO Palau	2	0	2	
EAR Watch	10	WSO Palau and social media platform	20+	13+	7+	Post impressions: 800 Post reach: 746 Engagement: 23 Likes: 7 Shares: 10
Locally tailored APCC May to July 2024 and ENSO May to Oct 2024 Outlook	10	WSO Palau and social media	17+	12+	5+	Post impressions: 518 Post reach: 490 Engagement: 13 Likes: 4 Shares: 6
Locally tailored Palau Island Climate Update	10	WSO Palau and social media	16+	12+	4+	Post impressions: 586 Post reach: 542 Engagement: 18 Likes: 3 Shares: 8
Data request	13	VMJ Construction and WSO Palau	2	1	1	Any changes this week from Monday to Thursday? Possible

						before Thursday? We want to see if we can pour on Wed or Tuesday. (Chose Wed to pour concrete.)
Data request feedback	16	VMJ Construction and WSO Palau	2	1	1	Unable to pour concrete due to scheduling. Poured on Thursday. Sulang for your help! We will reach out to you for phase II.
Running totals on May Rainfall statistics with climatology for 1991-2020 in standard and metric units	15	WSO Palau and social media	21+	13+	8+	Post impressions: 2020 Post reach: 2014 Engagement: 30 Likes: 8 Shares: 8
OCOF 200 celebration	16	WSO Palau and OCOF participants	40+	17	23	Post impressions: 2099 Post reach: 2052 Engagement: 461 Likes: 19 Hearts: 10 Shares: 3
Locally tailored OCOF 200 Outlooks and past conditions	16	WSO Palau and social media	15+	11+	4+	Post impressions: 682 Post reach: 596 Engagement: 23 Likes: 2 Shares: 9
OCOF 200 video by WSO Palau	17	WSO Palau, OCOF 200 participants and social media	14+	10+	4+	Post impressions: 103 Post reach: 90 Engagement: 7 Likes: 1

						Shares: 3
Palau Climate and Ocean Bulletin	17	WSO Palau and social media	13+	9+	4+	Post impressions: 606 Post reach: 542 Engagement: 31 Likes: 1 Shares: 8
Climate data request	22	Office of Planning and Statistics, Bureau of Budget and Planning, Ministry of Finance, ROP and WSO Palau	2	1	1	“Please see the table below and verify the numbers in red as they are quite different. Sulang.”
Technical Coordination Workshop & Validation Review : Pacific Regional Climate Centre Network and PMIS/PRSCS 2017-2026	22-27	Pacific Islands’ MET and Climate services and partners	29	21	8	
Coral Bleaching satellite data source request	31	UH Manoa student and WSO Palau	2	1	1	“Thank you very much.”
Total			285+	173+	112+	Plus sign=for the Additional viewers on social media