

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

Country: Pohnpei and Kosrae

Part 1: Recent climate

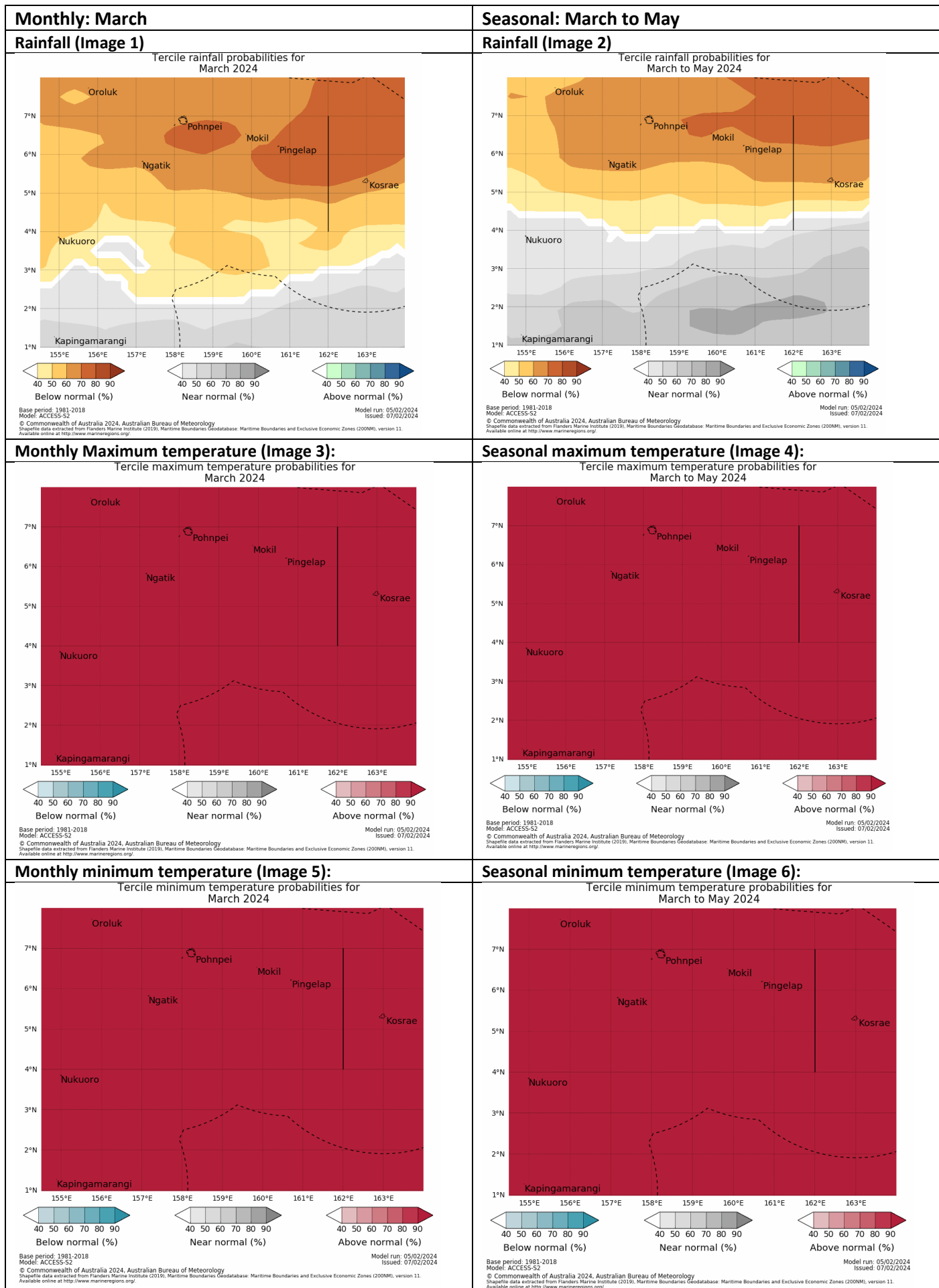
TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2023	Dec-2023	Jan-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
			Rainfall (mm)				
Pohnpei (1949-2024)	670.3	197.1	168.9	256.5	370.7	291.6	12/75
Kosrae (1954-2024)	574.0	179.3	394.7	309.6	480.4	422.1	23/52

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

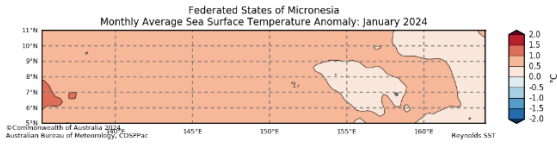
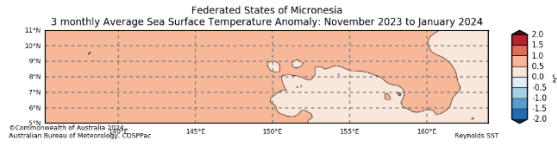
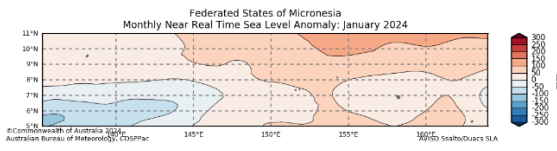
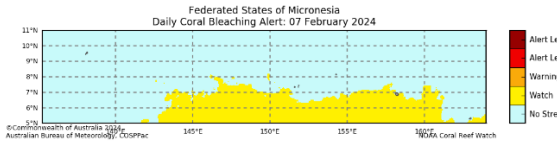
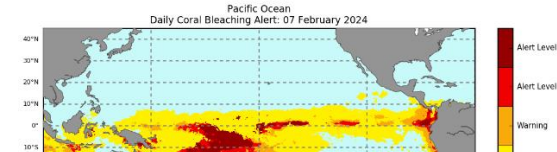
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Pohnpei (1949-2024)	1036.3	Normal	995.9	1219.8	1125.0	29/74
Kosrae (1954-2024)	1148.0	Below normal	1202.4	1541.0	1323.2	14/44

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

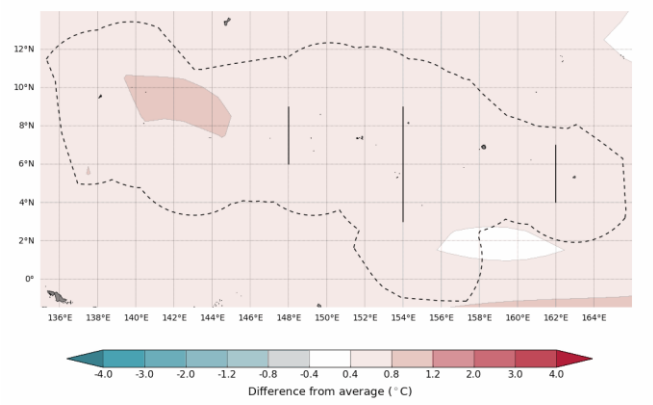
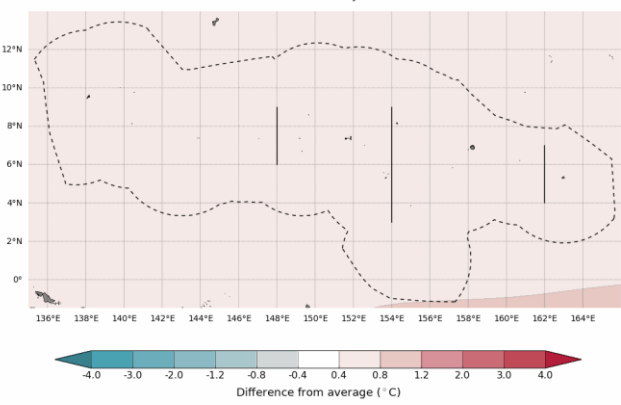
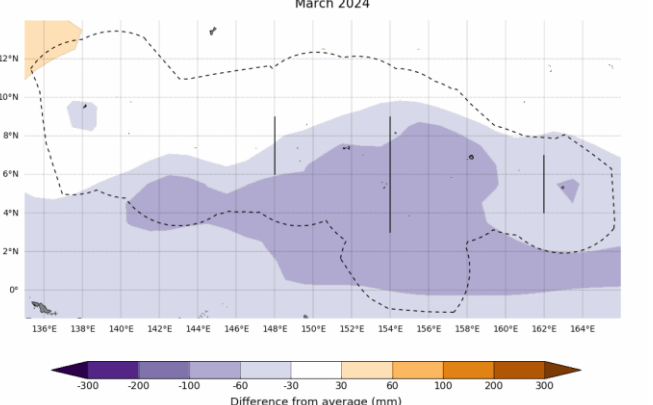
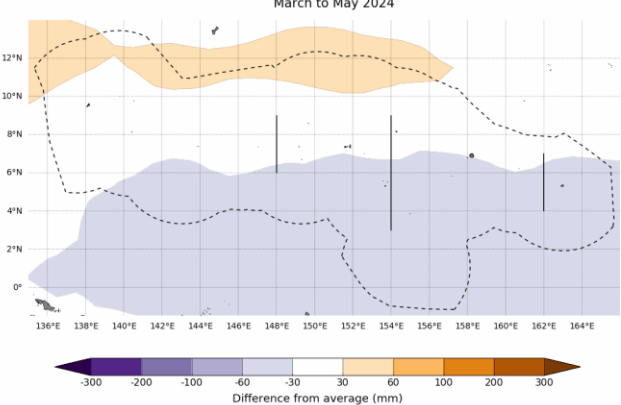
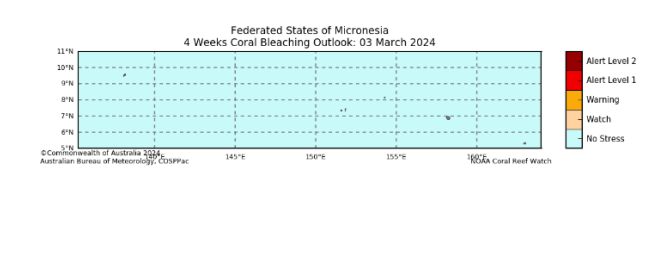
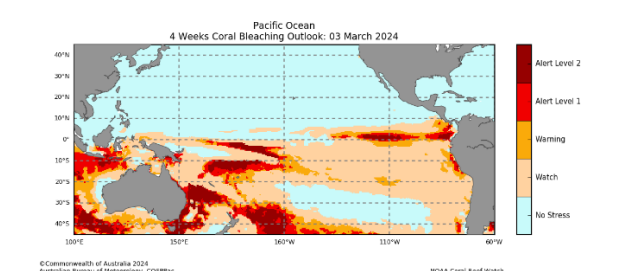


Part 2: Recent Ocean Observation

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>Federated States of Micronesia Monthly Average Sea Surface Temperature Anomaly: January 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>	<p>Sea Surface Temperature (Image 4):</p>  <p>Federated States of Micronesia 3 monthly Average Sea Surface Temperature Anomaly: November 2023 to January 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>
<p>Sea level (Image 2):</p>  <p>Federated States of Micronesia Monthly Near Real Time Sea Level Anomaly: January 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Federated States of Micronesia Daily Coral Bleaching Alert: 07 February 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 07 February 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p>

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

Monthly: March	Seasonal: March to May
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for March 2024</p>  <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 (2009M), version 11. Available online at http://www.marinegaps.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast 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 Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.marinegaps.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for March 2024</p>  <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 (2009M), version 11. Available online at http://www.marinegaps.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast 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 Flanders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2009M), version 11. Available online at http://www.marinegaps.org/</p> <p>Model run: 05/02/2024 Issued: 07/02/2024</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Federated States of Micronesia 4 Weeks Coral Bleaching Outlook: 03 March 2024</p>  <p>© Commonwealth of Australia 2024, Australian Bureau of Meteorology, CSIRO/PAAC</p> <p>NOAA Coral Reef Watch</p>	<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 03 March 2024</p>  <p>© Commonwealth of Australia 2024, Australian Bureau of Meteorology, CSIRO/PAAC</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 below normal at Pohnpei and near-normal at Kosrae. For the past three months, rainfall was near-normal at Pohnpei and below normal at Kosrae. The state of Pohnpei is still in a drought state of emergency.

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 or very likely to be below normal over Pohnpei, Kosrae, and most of the outer islands, except at Kapingamarangi, where near-normal is most likely.

The rainfall for March to May is likely or very likely to be below normal over the northern half of the region, including Pohnpei and Kosrae, while near-normal rainfall is likely over the southern half, including Nukuoro and Kapingamarangi.

Maximum and minimum temperatures during March and over March to May are very likely to be above normal over Pohnpei, Kosrae, and the outer islands.

Part 2: Recent Ocean summary statement

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

January ocean temperatures around Pohnpei and Kosrae were utmost 1.0°C above normal.

Averaged over November to January, ocean temperatures around Pohnpei and Kosrae were utmost 1.0°C above normal.

January sea levels around Pohnpei and Kosrae were near normal.

Coral bleaching alert at 'Watch' for Pohnpei.

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

Ocean Variable statement

March ocean temperatures around Pohnpei and Kosrae are predicted to be 0.4 to 0.8°C above normal.

Averaged over March to May, ocean temperatures around Pohnpei and Kosrae are predicted to be 0.4 to 0.8°C above normal.

March sea levels around Pohnpei and Kosrae are predicted to be 60mm to 100mm below normal.

Averaged over March to May, sea levels around south of Pohnpei and Kosrae are predicted to be 30mm to 60mm below normal.

Coral bleaching outlook for Pohnpei and Kosrae show no thermal stress.

IN BRIEF for Teleconference

- Rainfall was near-normal to below normal for January and November to January.
- The rainfall outlook for March and March to May indicates below normal rainfall is likely or very likely in the northern half, while near-normal is likely in the south.
- Air temperatures are very likely to be above normal.
- SSTs were above 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 above normal for January. Above-normal sea surface heights are predicted for March and 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)
Climate Bulletin		Pohnpei Municipal Gov't, Kosrae Municipal Gov't, Pohnpei and Kosrae DCO, Dept. Of Education, Red Cross, Fisheries, Environmental Protection Agency, DECEM, Mayors, Dept. Of Public Safety, Pohnpei Utility Corporation, Tourism, Fisheries.	54	43	11	
EAR Watch		Pohnpei Municipal Gov't, Kosrae Municipal Gov't, Pohnpei and Kosrae DCO, Dept. Of Education, Red Cross, Fisheries, Environmental Protection Agency, DECEM, Mayors, Dept. Of Public Safety, Pohnpei Utility Corporation, Tourism, Fisheries.	54	43	11	

Monthly Climate Briefing						
Ocean Outlook						
Climate data request						
Total			54	43	11	