

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 189

Country: Pohnpei and Kosrae

Part 1: Recent climate

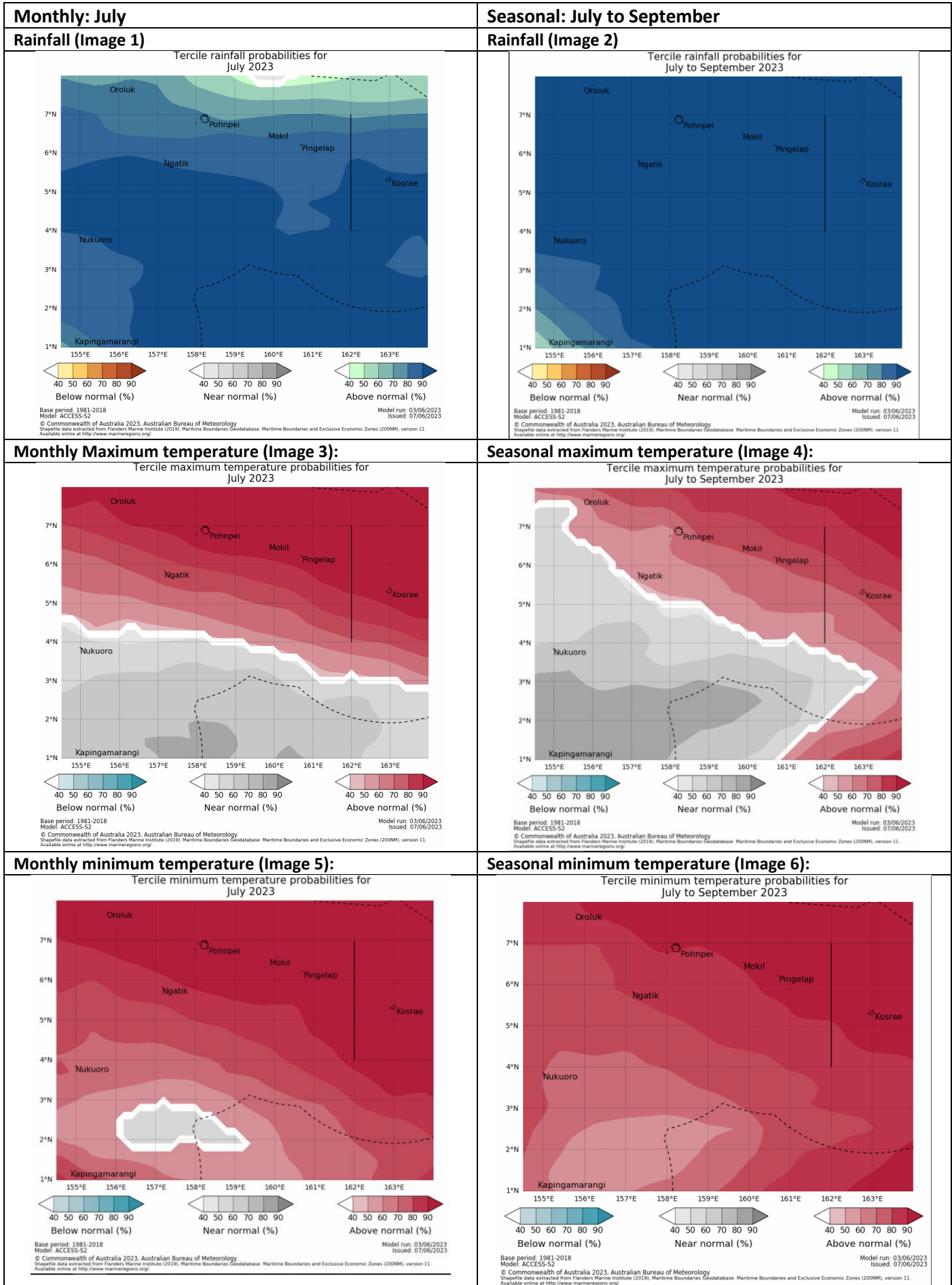
TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2023	Apr-2023	May-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Pohnpei (1949-2023)	363.0	657.9	737.1	425.4	565.0	494.8	68/73
Kosrae (1954-2023)	274.6	535.4	467.9	382.9	534.8	451.2	29/54

TABLE 2: Three-month Total Rainfall for March to May 2023

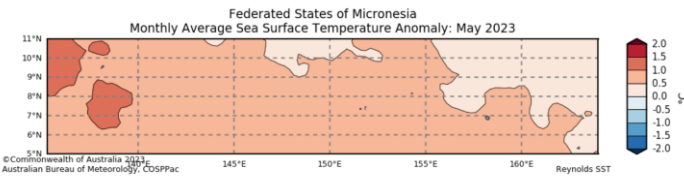
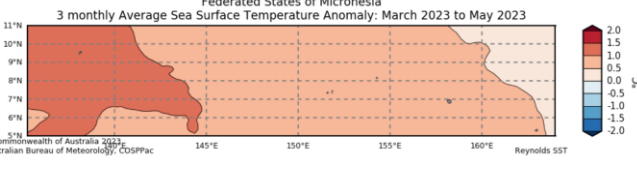
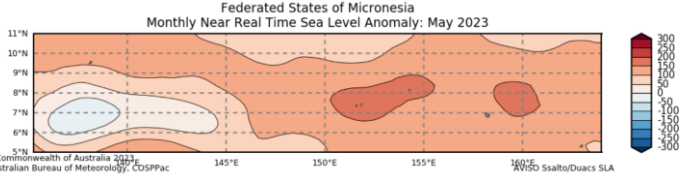
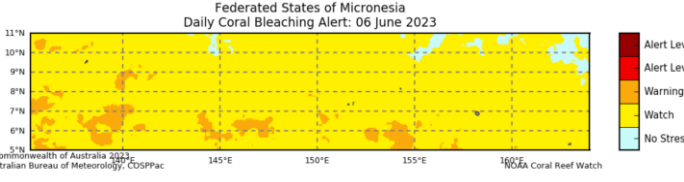
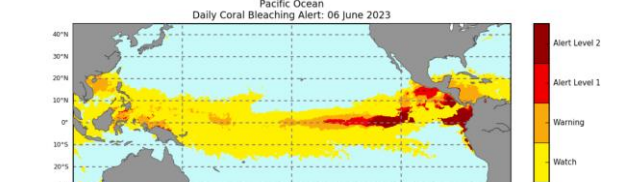
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Pohnpei (1949-2023)	1758.0	Above normal	1207.0	1487.5	1353.4	62/73
Kosrae (1954-2023)	1277.9	Below normal	1293.7	1613.6	1416.2	16/50

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2023

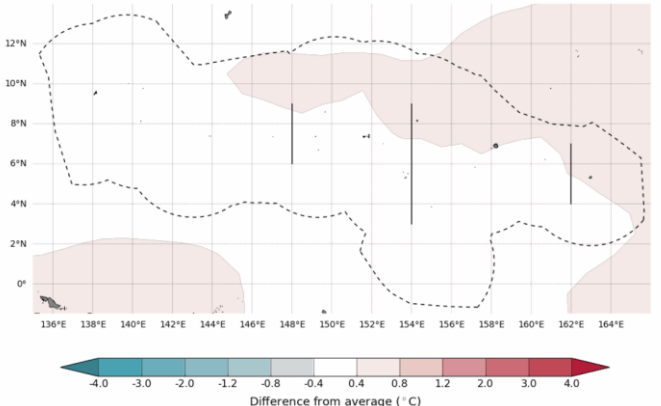
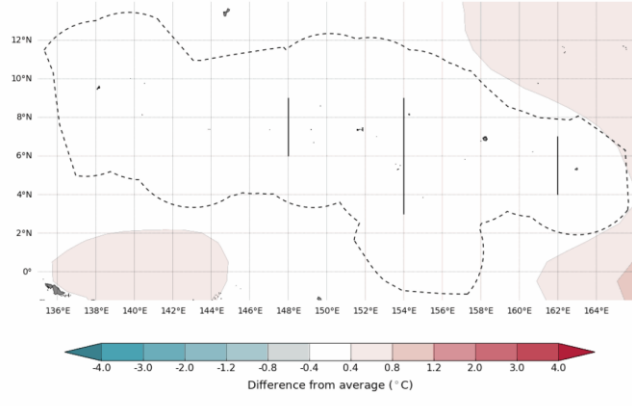
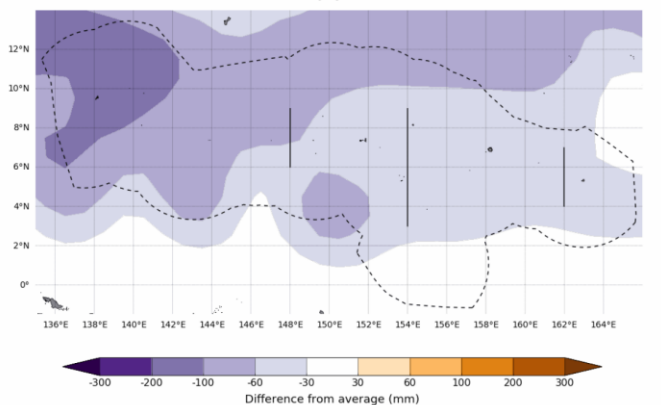
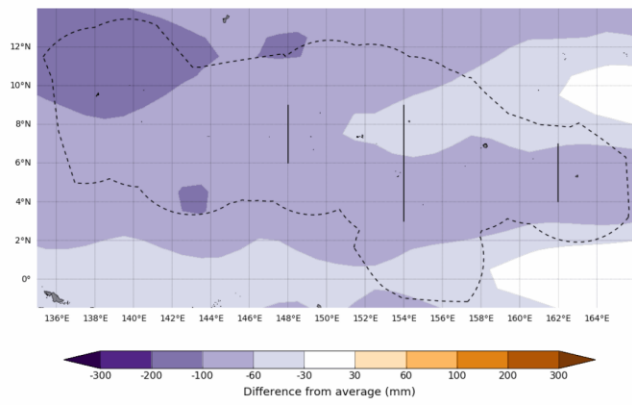
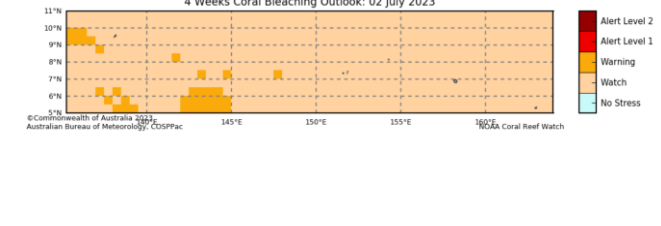
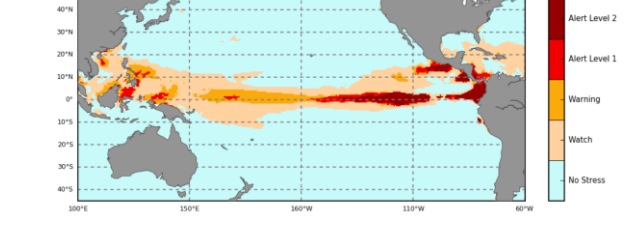


Part 2: Recent Ocean Observation

Monthly/Three months: May and March to May 2023

Monthly: May	Last three months: March to May 2023:
<p>Sea Surface Temperature (Image 1):</p>  <p>Federated States of Micronesia Monthly Average Sea Surface Temperature Anomaly: May 2023</p> <p>© Commonwealth of Australia 2023 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: March 2023 to May 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p>
<p>Sea level (Image 2):</p>  <p>Federated States of Micronesia Monthly Near Real Time Sea Level Anomaly: May 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Federated States of Micronesia Daily Coral Bleaching Alert: 06 June 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 06 June 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p>

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2023

Monthly: July	Seasonal: July to September
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.maritimesg.org/</p> <p>Model run: 03/06/2023 Issued: 06/06/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.maritimesg.org/</p> <p>Model run: 03/06/2023 Issued: 06/06/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for July 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.maritimesg.org/</p> <p>Model run: 03/06/2023 Issued: 06/06/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for July to September 2023</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2023, 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.maritimesg.org/</p> <p>Model run: 03/06/2023 Issued: 06/06/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Federated States of Micronesia 4 Weeks Coral Bleaching Outlook: 02 July 2023</p>  <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>4 Weeks Coral Bleaching Outlook: 02 July 2023</p> <p>Pacific Ocean</p>  <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: May 2023/March to May 2023 statement

Above normal rainfall was recorded at Pohnpei for May, while Kosrae recorded near-normal rainfall. It was the sixth wettest May on record for Pohnpei. For March to May, above normal rainfall was recorded for Pohnpei, while Kosrae recorded below normal.

Part 1i. Monthly and Seasonal Outlooks for July and July to September 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for July and July to September is very likely to be above normal over Pohnpei and Kosrae.

Maximum and minimum temperatures during July are likely or very likely to be above normal over Pohnpei and Kosrae, while near-normal temperatures are likely for the southern islands of Nukuoro and Kapingamarangi.

Maximum and minimum temperatures averaged over July to September are likely or very likely to be above normal over most of Pohnpei and Kosrae.

Part 2: Recent Ocean summary statement

Monthly and last three months: May 2023/March to May 2023

May ocean temperatures around Pohnpei were 0.5 to 1.0°C above normal, with 0.0 to 0.5°C near normal around Kosrae and the northern part of Pohnpei.

Averaged over March to May, ocean temperatures around Pohnpei and Kosrae were 0.5 to 1.0°C above normal with 0.0 to 0.5°C near normal northeast and east of Kosrae.

May sea levels around Pohnpei and Kosrae were 100mm to 150mm above normal with a patch of 150mm to 200mm just northeast of Pohnpei.

Coral bleaching alert status on 'Watch' for both Pohnpei and Kosrae.

Part 2i. Monthly and Seasonal Outlooks for July and July to September 2023

Ocean Variable statement

July ocean temperatures around Pohnpei and Kosrae are predicted to be 0.4 to 0.8°C above normal with -0.4 to 0.4°C near normal around the southern parts of the islands.

Averaged over July to September, ocean temperatures around Pohnpei and Kosrae are predicted to be -0.4 to 0.4°C near normal.

July sea levels around Pohnpei and Kosrae are predicted to be -60mm to -30mm below normal.

Averaged over July to September, sea levels around Pohnpei and Kosrae are predicted to be -100mm to -60mm below normal with the southern island of Kapingamarangi to be -60mm to -30mm below normal.

Coral bleaching outlook is on 'Watch' for waters of Pohnpei and Kosrae.

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

Product	Date: May 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin						
EAR Watch	5/16/2023	Red Cross, Dept. Of Education, Disaster Coordinating Office (DCO), Environmetal Protection Agency, Pohnpei Utilities Corp.	5	5	0	
Monthly Climate Briefing						
Ocean Outlook						
Climate data request						
Total			5	5	0	