

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

Country: Chuuk

Part 1: Recent climate

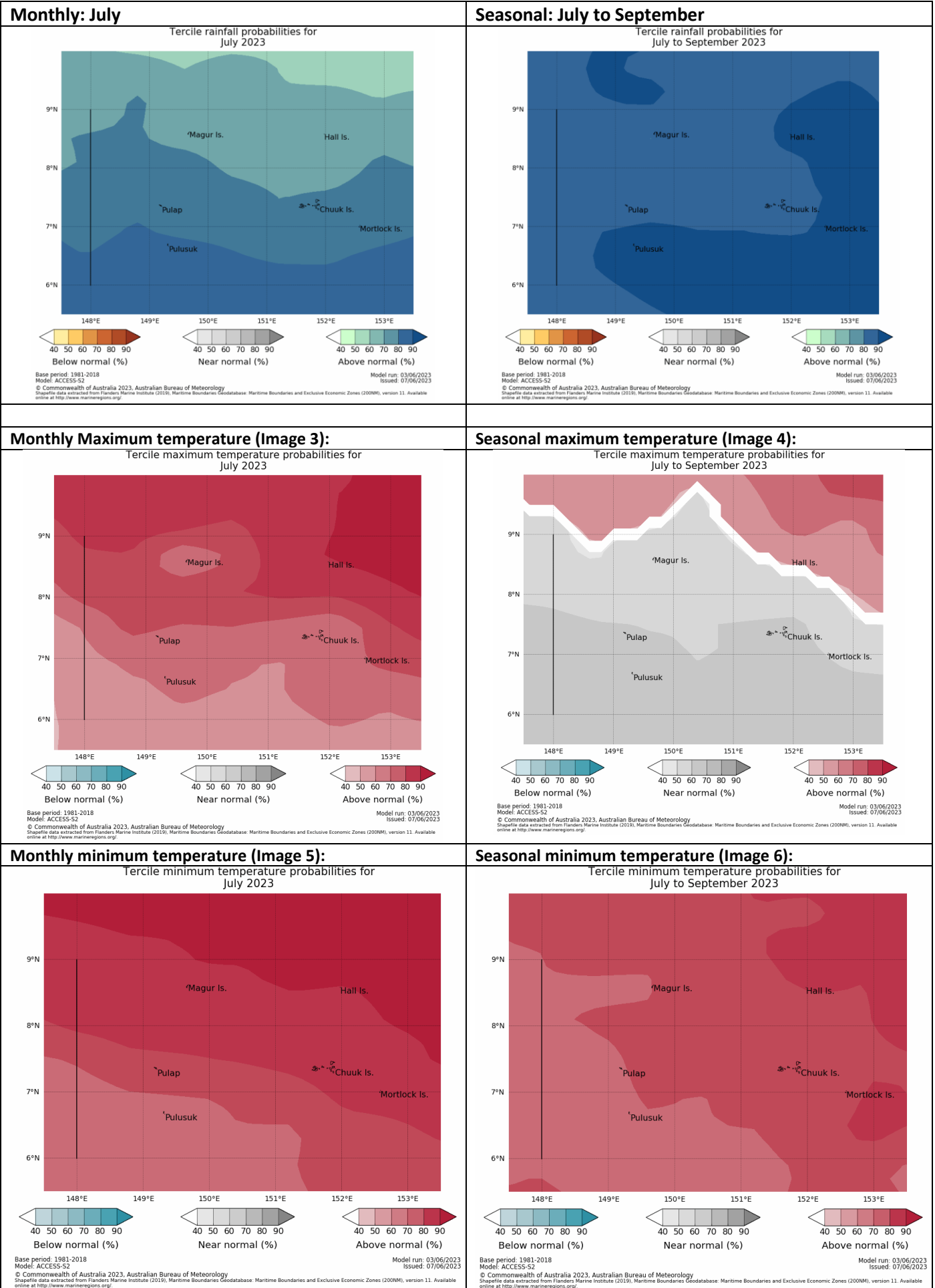
TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2023	Apr-2023	May-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Chuuk (1 893-2023)	180.1	435.4	547.9	280.3	379.6	339.4	69/75

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

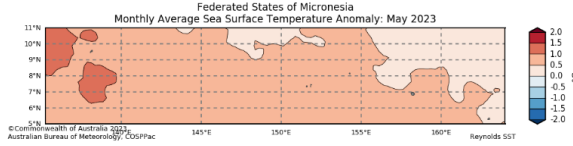
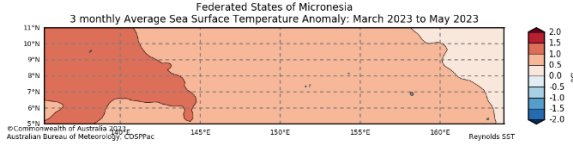
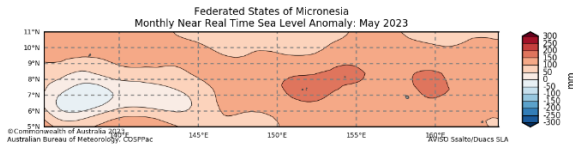
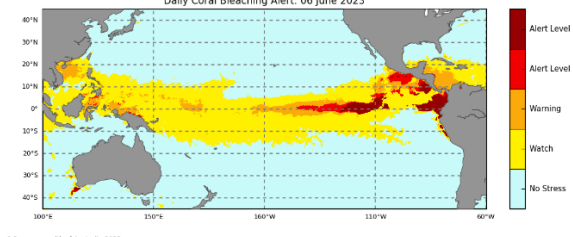
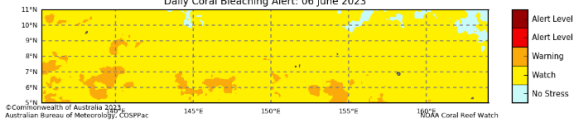
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Chuuk(1893-2023)	1163.4	Above normal	798.8	952.2	870.5	65/75

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

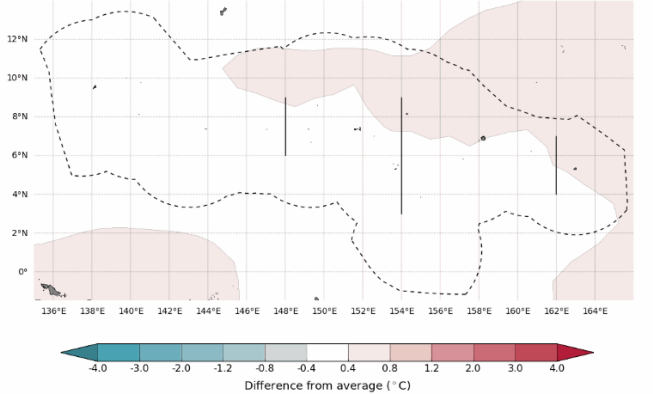
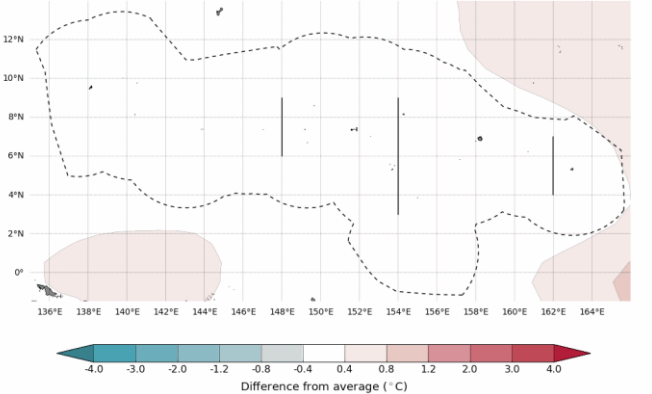
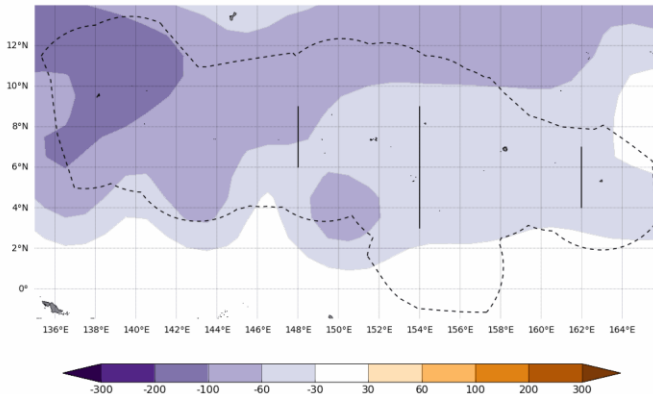
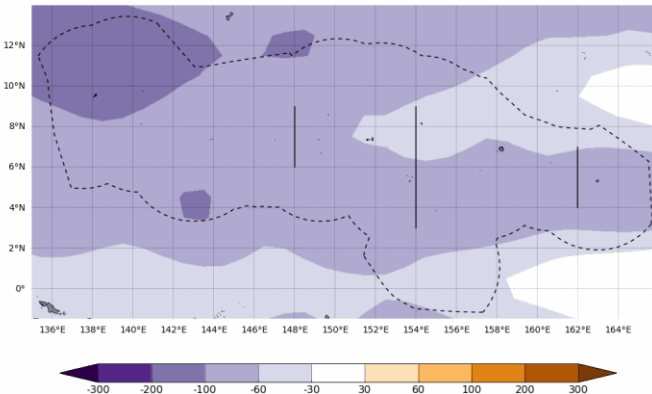
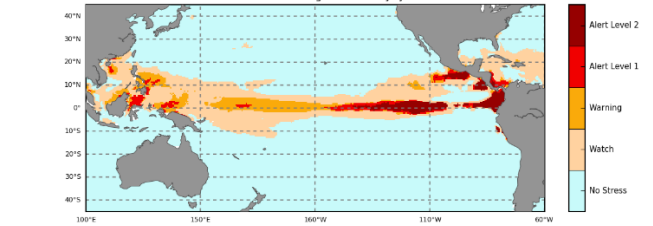
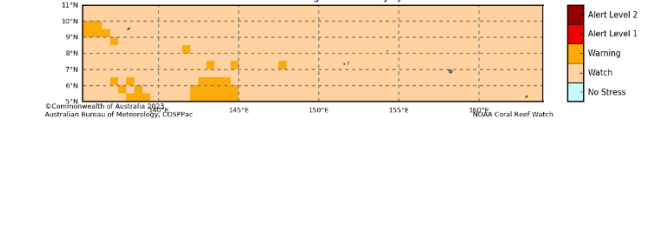


Part 2: Recent Ocean Observation

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>Pacific Ocean Daily Coral Bleaching Alert: 06 June 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</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>NOAA Coral Reef Watch</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 Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at http://www.marine.gov.au/</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 Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at http://www.marine.gov.au/</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 Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at http://www.marine.gov.au/</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 Flinders Marine Institute (2019). Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (2008M), version 11. Available online at http://www.marine.gov.au/</p> <p>Model run: 03/06/2023 Issued: 06/06/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 02 July 2023</p>  <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</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</p> <p>NOAA Coral Reef Watch</p>

Summary Statement

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

Rainfall was above normal for May and March to May for Chuuk. Chuuk recorded its seventh wettest May on record.

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

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for both July and July to September is very likely to be above normal over the entire Chuuk region.

Maximum and minimum temperatures during July, plus minimum temperatures averaged over July to September, are likely or very likely to be above normal over the Chuuk region.

Maximum temperatures averaged over July to September are likely to be near-normal over the northern Nomunuito Islands and very likely to be near normal Pulap, Pulusuk, Chuuk Lagoon, and the Mortlock Islands. Maximum temperatures over the Hall Islands are likely to be above normal during this same period.

Part 2: Recent Ocean summary statement

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

May ocean temperatures around Chuuk were 0.5 to 1.0°C above normal.

Averaged over March to May, ocean temperatures around Chuuk were 0.5 to 1.0°C above normal.

May sea levels around Chuuk were 150mm to 200mm above normal.

Coral bleaching alert is at 'Watch' for majority of Chuuk waters.

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

Ocean Variable statement

July ocean temperatures around Chuuk are predicted to be -0.4 to 0.4°C near normal.

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

July sea levels around Chuuk are predicted to be -30mm to -60mm below normal.

Averaged over July to September, sea levels around Chuuk Lagoon are predicted to be -30mm to -60mm below normal with the rest of the Chuuk region predicted to be -60mm to -100mm below normal.

Coral bleaching alert is at 'Watch' for majority of Chuuk waters.

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	5th	DCO	4	2	2	
Monthly Climate Briefing						
Ocean Outlook						
Climate data request						
Total			4	2	2	