

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 192

Country: Chuuk, FSM

Part 1: Recent climate

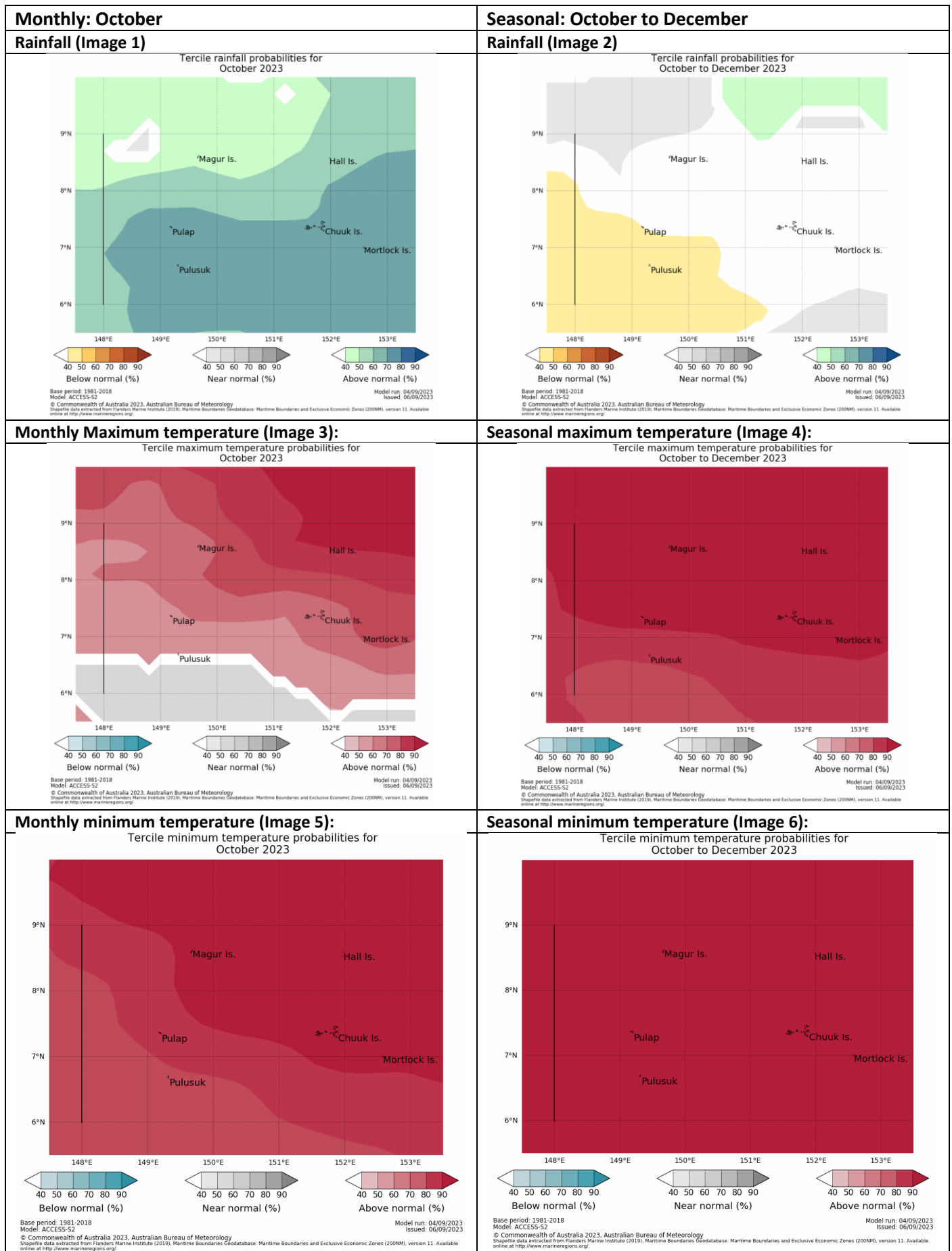
TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2023	Jul-2023	Aug-2023				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Chuuk (1 893-2023)	348.7	395.2	386.8	291.6	378.1	330.8	55/77

TABLE 2: Three-month Total Rainfall for June to August 2023

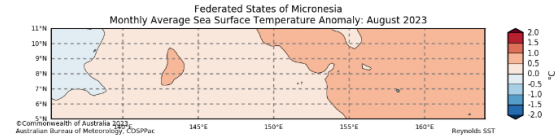
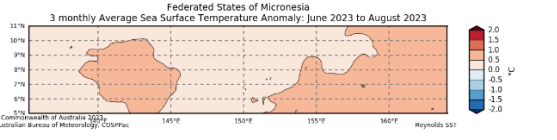
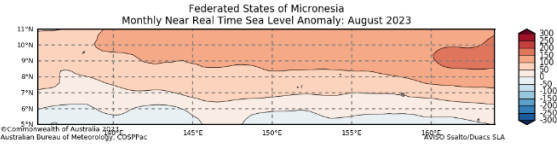
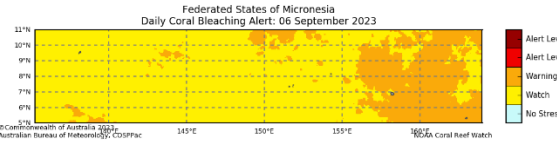
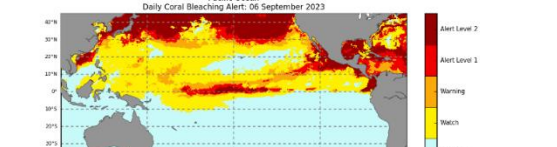
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Chuuk(1893-2023)	1130.7	Above normal	884.3	1090.2	983.4	56/74

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2023



Part 2: Recent Ocean Observation

Monthly/Three months: August and June to August 2023

Monthly: August	Last three months: June to August 2023:
<p>Sea Surface Temperature (Image 1):</p>  <p>Federated States of Micronesia Monthly Average Sea Surface Temperature Anomaly: August 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: June 2023 to August 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: August 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 September 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 06 September 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p>

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2023

Monthly: October	Seasonal: October to December
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for October 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 (200NM), version 11. Available online at http://www.maritimesg.org/</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for October to December 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 (200NM), version 11. Available online at http://www.maritimesg.org/</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for October 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 (200NM), version 11. Available online at http://www.maritimesg.org/</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for October to December 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 (200NM), version 11. Available online at http://www.maritimesg.org/</p> <p>Model run: 04/09/2023 Issued: 06/09/2023</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Federated States of Micronesia 4 Weeks Coral Bleaching Outlook: 01 October 2023</p> <p>© Commonwealth of Australia 2023 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 01 October 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: August 2023/June to August 2023 statement

Rainfall was above normal for August as well as for the past three months at the Chuuk Weather Service Office in Weno.

Part 1i. Monthly and Seasonal Outlooks for October and October to December 2023

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for October is likely to be above normal over the entire region of Chuuk.

The rainfall for October to December is likely to be below normal over the western most islands, including Pulap and Pulusuk. Over the rest of the Chuuk islands, the outlook generally offers little guidance.

For most of the Chuuk region, maximum and minimum temperatures during October and averaged over October to December are likely or very likely to be above normal. The one exception is October maximum temperatures which are likely to be near-normal south and southeast of Pulusuk.

Part 2: Recent Ocean summary statement

Monthly and last three months: August 2023/June to August 2023

August and averaged June to August ocean temperatures around Chuuk were 0.0 to 0.5°C near normal.

August sea levels around Pwollowat, Pulap, Pulusuk, and Chuuk Lagoon were 50mm to 100mm above normal. Farther north in the Namonuito and Hall islands, sea levels were 100mm to 100mm above normal. Down in the Mortlocks the sea levels were 0mm to 50mm near normal.

Coral bleaching alert is on Watch status for Chuuk waters.

Part 2i. Monthly and Seasonal Outlooks for October and October to December 2023

Ocean Variable statement

October and the average over October to December ocean temperatures are predicted to be near normal staying between -0.4 and 0.4°C.

October and the average over October to December sea levels around Namonuito and Hall islands are predicted to be 30mm to 60mm below normal. The rest of the Chuuk region are predicted to be 60mm to 100mm below normal.

The 4 weeks coral bleaching outlook is at Watch status for Chuuk.

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

Product	Date: August 2023	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin						
EAR Watch	9/11/2023	DCO	4	2	2	
Monthly Climate Briefing						
Ocean Outlook						
Climate data request						
Total			4	2	2	