

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 202

Country: Papua New Guinea

Part 1: Recent climate

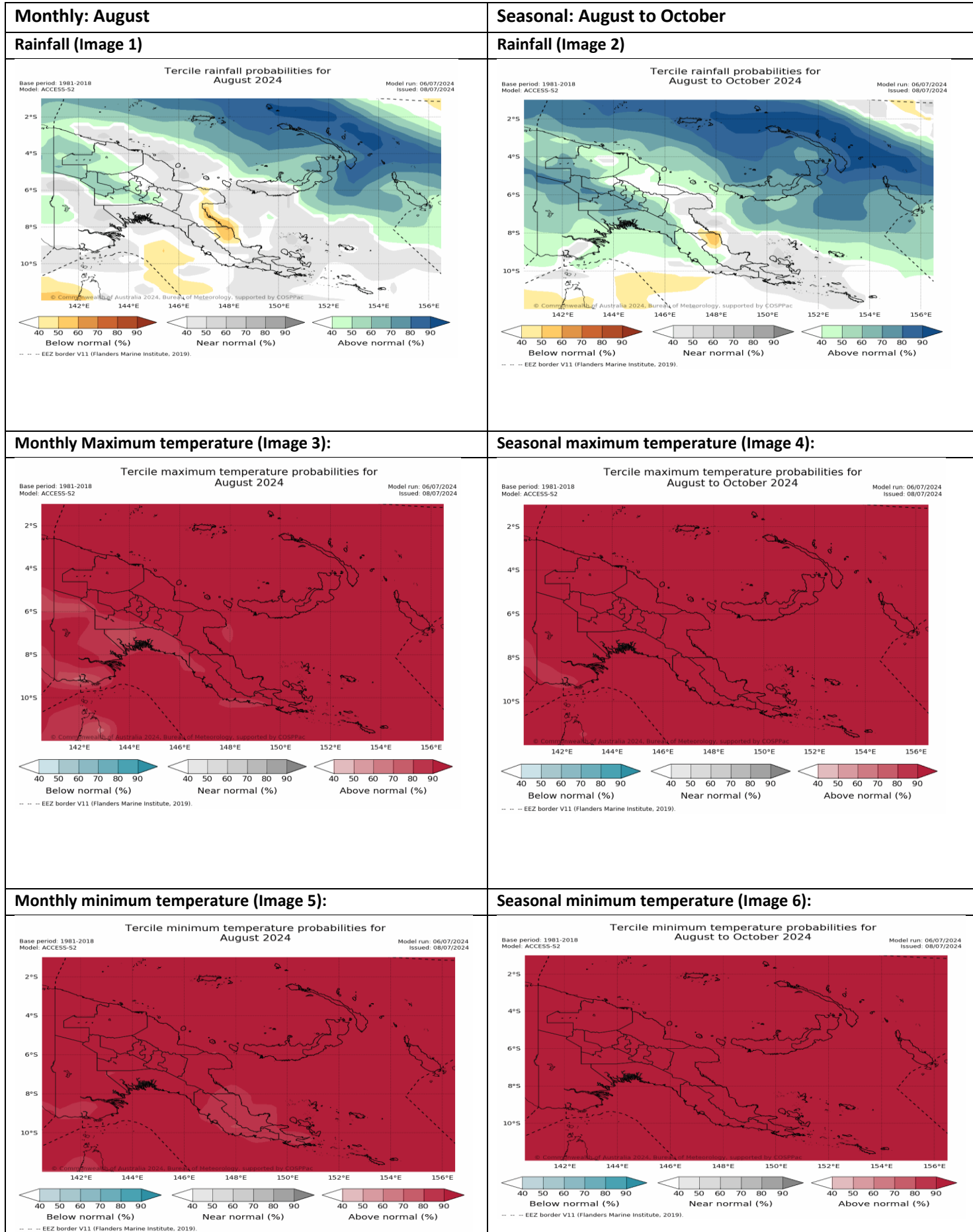
TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2024	May-2024	Jun-2024				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Momase Region							
Madang (1944-2022)				155.5	225.8	205.4	
Nadzab (1973-2024)	167.0	100.4	199.8	65.0	121.4	83.6	49/50
Wewak (1956-2024)	216.0	133.8	168.6	174.0	229.0	204.4	22/68
Vanimo (1918-2024)				169.6	246.3	204.6	
Highlands Region							
Goroka (1948-2024)	140.6	154.4	51.6	45.0	78.8	60.5	28/59
New Guinea Islands Region							
Momote (1949-2023)				222.8	315.3	277.3	
Kavieng (1916-2024)		267.5	240.6	192.0	267.1	212.4	54/94
Southern Region							
Misima (1917-2022)				115.4	234.8	163.0	
Port Moresby (1875-2024)	80.5	45.2	15.8	11.2	43.8	24.0	50/126

TABLE 2: Three-month Total Rainfall for April to June 2024

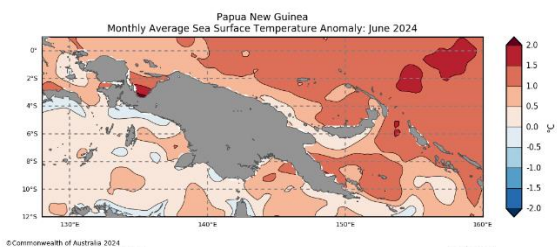
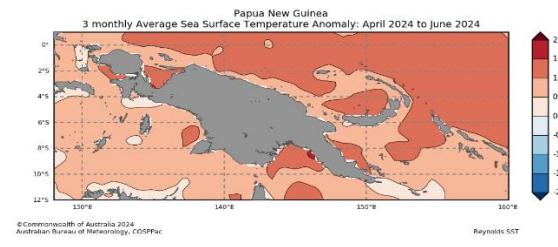
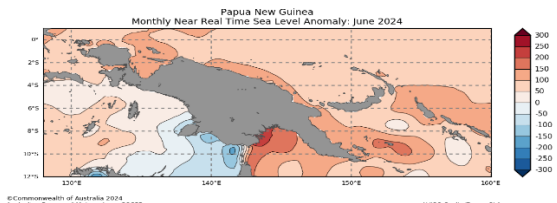
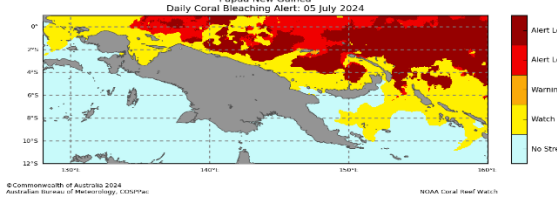
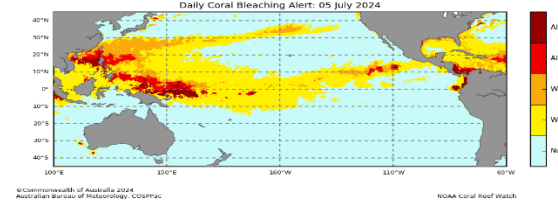
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Momase Region						
Madang (1944-2022)			904.9	1073.7	1007.2	
Nadzab (1973-2024)	467.2	Above normal	271.4	345.4	322.3	46/47
Wewak (1894-2024)	518.4	Below normal	562.5	671.4	641.6	18/66
Vanimo (1918-2024)			579.9	739.0	652.8	
Highlands Region						
Goroka (1948-2024)	346.6	Normal	333.6	422.4	386.3	24/55
New Guinea Islands Region						
Momote (1949-2023)			703.0	895.0	805.1	
Kavieng (1917-2024)			688.9	884.5	777.3	
Southern Region						
Misima (1917-2022)			602.7	883.3	741.6	
Port Moresby (1875-2024)	141.5	Below normal	195.7	298.3	250.6	30/119

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024



Part 2: Recent Ocean Observation

Monthly/Three months: June 2024 and April to June 2024

<p>Monthly: June 2024</p>	<p>Last three months: April to June 2024:</p>
<p>Sea Surface Temperature (Image 1):</p> 	<p>Sea Surface Temperature (Image 4):</p> 
<p>Sea level (Image 2):</p> 	
<p>Daily coral bleaching alert (Image 3):</p> 	<p>Pacific Ocean</p> 

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly: August	Seasonal: August to October
Monthly sea surface temperature (Image 5):	Seasonal sea surface temperature (Image 6):
<p>Difference from average sea surface temperature forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, 5077-140/2024</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface temperature forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, 5077-140/2024</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
Monthly sea level (Image 7):	Seasonal sea level (Image 8):
<p>Difference from average sea surface height forecast for August 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, 5077-140/2024</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>	<p>Difference from average sea surface height forecast for August to October 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 Model run: 06/07/2024 Issued: 08/07/2024</p> <p>© Commonwealth of Australia 2024, Bureau of Meteorology, 5077-140/2024</p> <p>--- EEZ border V11 (Flanders Marine Institute, 2019).</p>
4-week Coral Bleaching (Image 9):	
<p>Papua New Guinea 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 21 July 2024</p> <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: June 2024/April to June 2024 statement

The rainfall for June was, below normal over Wewak, near-normal at Goroka, Kavieng and Port Moresby, and above normal at Nadzab which had its second wettest June on record.

For the past three months, rainfall was above normal at Nadzab, near-normal at Goroka, and below normal at Wewak and Port Moresby. Nadzab recorded its second wettest April to June on record.

Part 1i. Monthly and Seasonal Outlooks for August and August to October 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for August is very likely to be above normal over Manus, Kavieng, East New Britain and Bougainville. In the Highlands region, Vanimo, Wewak and West New Britain, rainfall is likely to be normal to above normal. In Madang, Nadzab, Central, Oro and Milne Bay, the outlook shows little guidance for August's rainfall.

The rainfall for August to October is likely or very likely to be above normal over most of PNG, the main exceptions being the Momase and Milne Bay areas where near-normal rainfall is likely.

Maximum and minimum temperatures during August and average over August to October are very likely to be above normal over PNG.

Part 2: Recent Ocean summary statement

Monthly and last three months: June 2024/April to June 2024

June ocean temperatures around PNG were utmost 2.0°C above normal.

Averaged over April to June, ocean temperatures around PNG were utmost 1.5°C above normal.

June sea levels were 50 to 150mm below normal to the southwest of PNG and utmost 300mm above normal over the rest of the region.

There is a coral bleaching 'Alert Level 2 and 1' for northern waters of PNG.

Part 2i. Monthly and Seasonal Outlooks for August and August to October 2024

Ocean Variable statement

August and averaged over August to October, ocean temperatures around PNG are predicted to be 0.4 to 1.2°C above normal.

August and August to October, sea levels around PNG are predicted to be -30 to 30mm near-normal.

IN BRIEF for Teleconference

- Rainfall was mixed across PNG ranging from below normal to above normal for June and April to June.
- Above normal rainfall is likely or very likely in the Islands during August, and over much of the country over August to October.

- SSTs were above normal for June and April to June. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for June. Near normal sea surface heights are predicted for August and August to October.
- There is a coral bleaching 'Alert Level 2 and 1' for northern waters of PNG.

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

Product	Date: June 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Ok Tedi Briefing	20/06	Mining company	15	13	2	
Drought Update	28/06	NGOs, Consultants, Construction Companies, Govt Agencies, Companies, General Public	217	117	40	
Student engagement	Month of June	Pacific Adventist University	6	4	2	
Climate data request	All of June	Companies	2	2		
Total			240	136	44	