

Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 208

Country: Papua New Guinea

Part 1: Recent climate

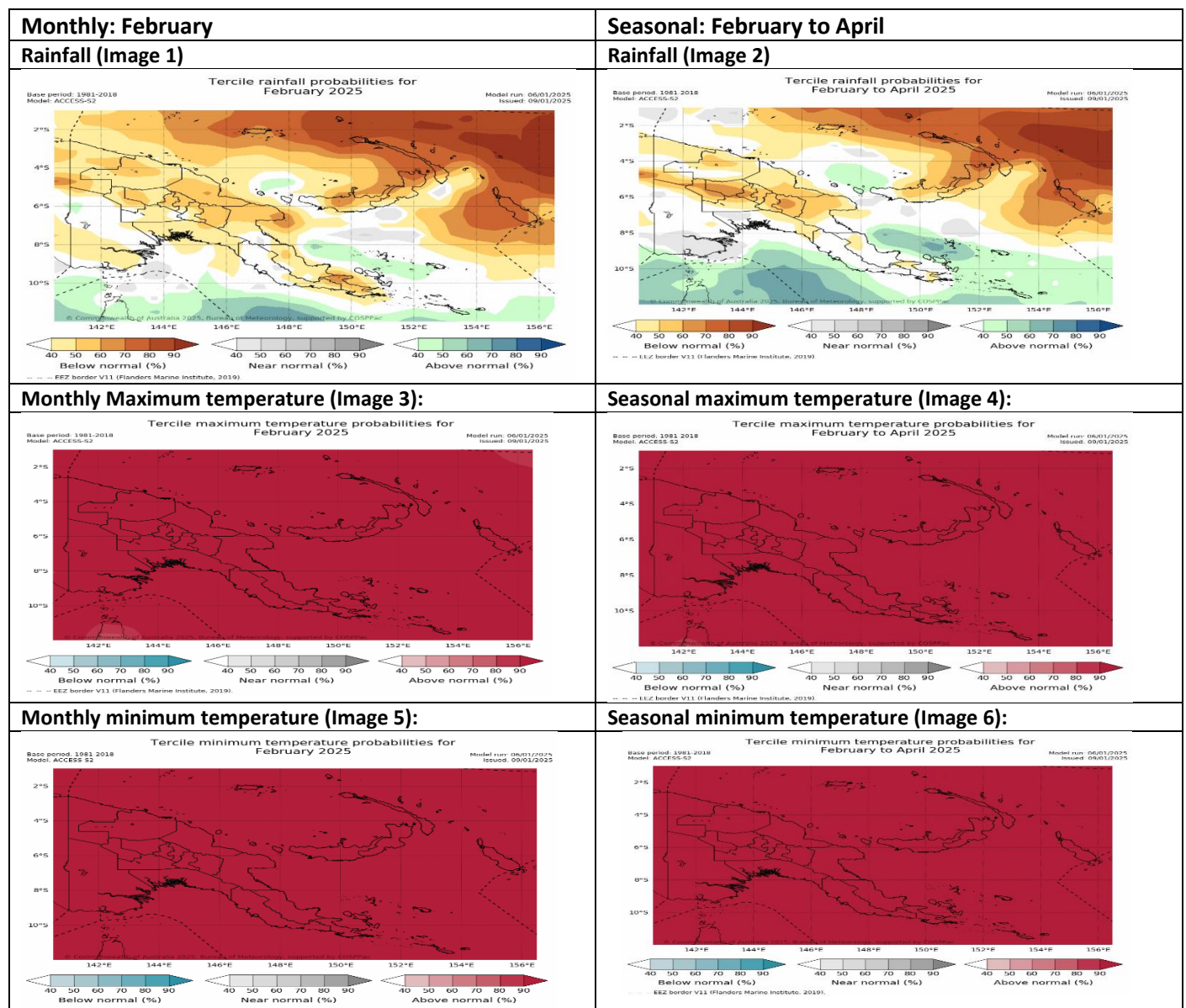
TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2024	Nov-2024	Dec-2024				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Momase Region							
Madang (1944-2024)				318.9	443.4	382.0	
Nadzab (1973-2024)	85.2	117.8		112.0	188.8	154.0	
Wewak (1956-2024)			162.6	120.7	171.2	142.3	42/69
Vanimo (1918-2024)	166.8	159.4	300.2	201.2	294.8	258.6	50/70
Highlands Region							
Goroka (1948-2024)	72.6			162.6	255.3	185.5	
New Guinea Islands Region							
Momote (1949-2024)				247.4	336.0	287.0	
Kavieng (1916-2024)				258.7	345.2	313.8	
Southern Region							
Misima (1917-2024)				168.3	256.5	219.7	
Port Moresby (1875-2024)	45.8	7.4	178.6	89.9	160.7	130.5	106/134

TABLE 2: Three-month Total Rainfall for October to December 2024

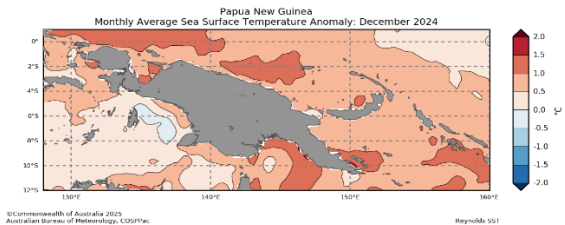
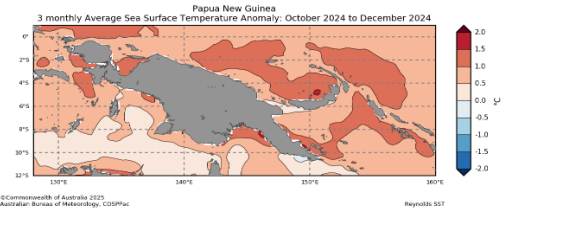
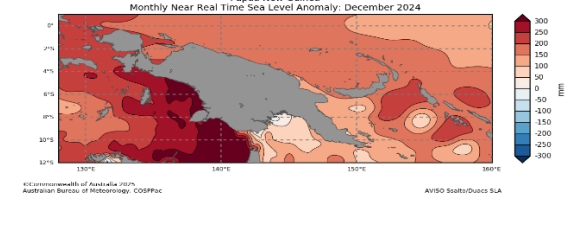
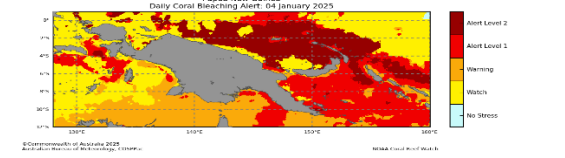
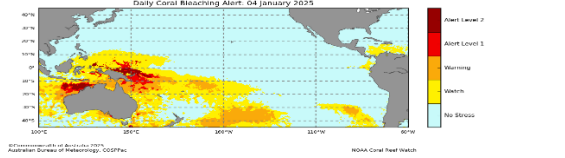
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Momase Region						
Madang (1944-2024)			841.0	1082.6	976.7	
Nadzab (1973-2024)			317.7	387.0	342.8	
Wewak (1894-2024)			537.6	660.7	573.0	
Vanimo (1918-2024)	626.4	Normal	591.5	734.5	631.5	32/63
Highlands Region						
Goroka (1948-2024)			446.3	601.6	522.4	
New Guinea Islands Region						
Momote (1949-2024)			683.8	865.0	782.0	
Kavieng (1917-2024)			712.8	867.4	797.0	
Southern Region						
Misima (1917-2024)			550.5	743.7	631.9	
Port Moresby (1875-2024)	231.8	Normal	175.2	291.6	212.0	66/120

## Part 1i. Monthly and Seasonal Outlooks for February and February to April 2025



Part 2: Recent Ocean Observation

Monthly/Three months: December 2024 and October to December 2024

<p><b>Monthly: December 2024</b></p> <p><b>Sea Surface Temperature Anomaly (Image 1):</b></p>  <p>Papua New Guinea Monthly Average Sea Surface Temperature Anomaly: December 2024</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p><b>Last three months: October to December 2024:</b></p> <p><b>Sea Surface Temperature Anomaly (Image 4):</b></p>  <p>Papua New Guinea 3 monthly Average Sea Surface Temperature Anomaly: October 2024 to December 2024</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p><b>Sea level anomaly (Image 2):</b></p>  <p>Papua New Guinea Monthly Near Real Time Sea Level Anomaly: December 2024</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS SLA</p>	
<p><b>Daily coral bleaching alert (Image 3):</b></p>  <p>Papua New Guinea Daily Coral Bleaching Alert: 04 January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 04 January 2025</p> <p>©Commonwealth of Australia 2025 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for February and February to April 2025

Monthly: February	Seasonal: February to April
Monthly sea surface temperature anomaly (Image 5):	Seasonal sea surface temperature anomaly (Image 6):
Monthly sea level anomaly (Image 7):	Seasonal sea level anomaly (Image 8):
4-week Coral Bleaching (Image 9):	

## Summary Statement

### Monthly and last three months: December 2024/October to December 2024 statement

The rainfall for December was normal over Wewak and above normal over Vanimo and Port Moresby. For the past three months, rainfall was normal over Port Moresby and Vanimo. Rainfall data was not available for other stations.

The rainfall for February, and February to April is likely or very likely to be below normal over PNG except Milne Bay region which the outlook is likely to be above normal.

Maximum and minimum temperatures during February and averaged over February to April are very likely to be above normal over PNG.

## Part 2: Recent Ocean summary statement

### Monthly and last three months: December 2024/October to December 2024

December sea surface temperatures (SSTs) around PNG were 0.5 to 1.5°C above normal.

Averaged over October to December, sea surface temperatures around PNG were utmost 1.5°C above normal.

December sea levels around PNG were 50 to 300mm above normal.

A coral bleaching Alert Level 1 and 2 are currently in effect for waters of PNG as of 04<sup>th</sup> January.

## Part 2i. Monthly and Seasonal Outlooks for February and February to April 2025

### **Ocean Variable statement**

February sea surface temperatures around PNG are predicted to be 0.4 to 2.0°C above normal.

Averaged over February to April, sea surface temperatures around PNG are predicted to be 0.4 to 1.2°C above normal.

February sea levels around PNG are predicted to be 30 to 100mm above normal.

Averaged over February to April, sea levels around PNG are predicted to be 30 to 60mm above normal.

Coral Bleaching outlook indicates Alert Level 1 and 2 status for the next 12 weeks.

### **IN BRIEF for Teleconference**

- Rainfall was above normal for December and normal during October to December.
- The rainfall outlook generally indicates below normal most likely in February and February to April
- SSTs were above normal for December and October to December. The outlook shows above normal SSTs for the next one and three months.
- Sea levels were above normal for December. Above normal sea levels are predicted for February and February to April.
- Mostly an Alert level 2 coral bleaching is in place for PNG waters.

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

Product	Date: December 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Disability	Age group	Comments (If there are comments from you Stakeholders)
Drought Update	20 <sup>th</sup> December	NGOs, Govt Agencies, Schools, Private companies, individuals, international partners	240	189	51			
Climate data request	1-31 December	Companies	3	3				
Total			243	192	51			