

Country: PNG

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2023	Jan-2024	Feb-2024				
	Total (mm)	Total (mm)	Total (mm)	33%tile	67%tile	Median	Rank
			Rainfall (mm)				
Momase Region							
Madang (1944-2022)				230.9	327.2	267.2	
Nadzab (1973-2024)				111.5	190.0	163.8	
Wewak (1956-2024)	109.6	54.2	188.8	104.2	145.2	121.6	55/68
Vanimo (1918-2024)			70.0	214.1	324.5	285.5	1/69
Highlands Region							
Goroka (1948-2023)				190.9	265.7	232.5	
New Guinea Islands Region							
Momote (1949-2023)				207.3	297.2	233.5	
Kavieng (1916-2024)	284.7	298.8	387.2	226.1	304.1	262.7	78/93
Southern Region							
Misima (1917-2022)				191.7	329.7	259.0	
Port Moresby (1875-2024)	83.0	228.9	247.8	123.9	219.7	167.8	105/136

TABLE 2: Three-month Total Rainfall for December 2023 to February 2024

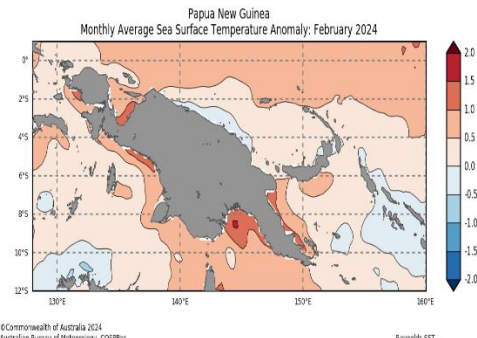
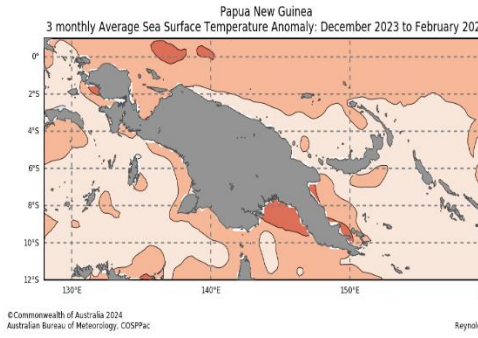
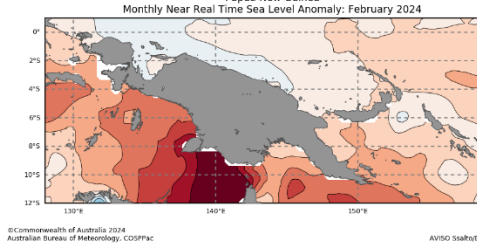
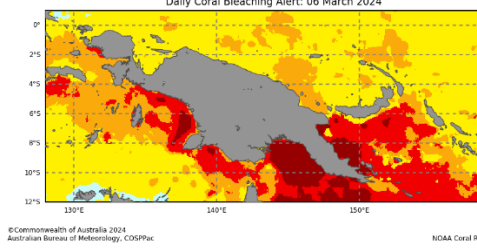
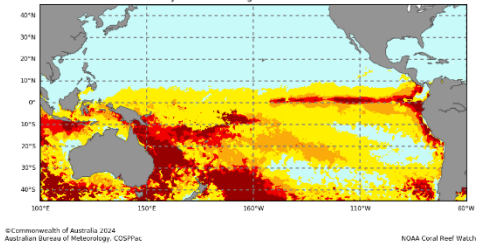
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Momase Region						
Madang (1944-2022)			926.0	1110.2	1019.0	
Nadzab (1973-2024)			430.5	521.7	489.0	
Wewak (1894-2024)	352.6	Below normal	365.3	466.1	418.4	21/66
Vanimo (1918-20243)			741.2	927.6	812.0	
Highlands Region						
Goroka (1948-2023)			634.4	743.0	695.8	
New Guinea Islands Region						
Momote (1949-2023)			758.5	872.4	806.8	
Kavieng (1917-2024)	970.7	Above normal	835.5	970.0	871.2	56/89
Southern Region						
Misima (1917-2022)			657.3	876.9	759.2	
Port Moresby (1875-2024)	559.7	Normal	440.8	598.0	498.0	87/132

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

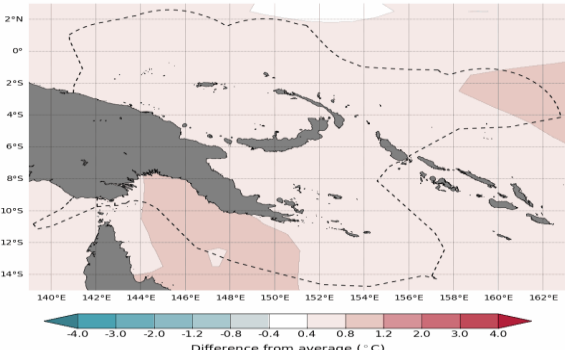
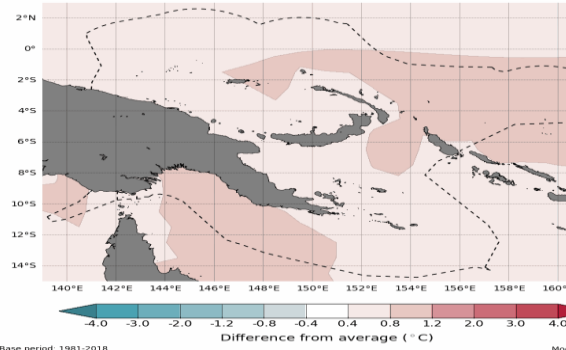
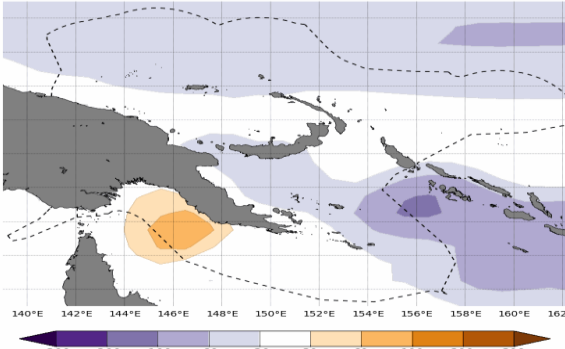
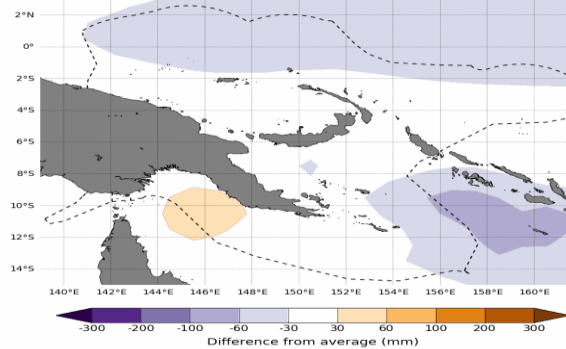
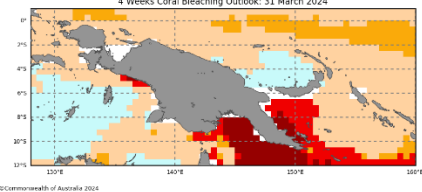
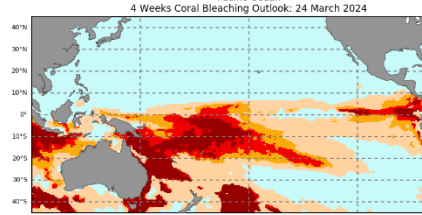
Monthly: April	Seasonal: April to June
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinemaps.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Tercile rainfall probabilities for April to June 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinemaps.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinemaps.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Tercile maximum temperature probabilities for April to June 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinemaps.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for April 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinemaps.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Tercile minimum temperature probabilities for April to June 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Shapefile data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinemaps.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>

Part 2: Recent Ocean Observation

Monthly/Three months: February 2024 and December 2023 to February 2024

<p>Monthly: February 2024</p> <p>Sea Surface Temperature (Image 1):</p>  <p>Papua New Guinea Monthly Average Sea Surface Temperature Anomaly: February 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p>Last three months: December 2023 to February 2024:</p> <p>Sea Surface Temperature (Image 4):</p>  <p>Papua New Guinea 3 monthly Average Sea Surface Temperature Anomaly: December 2023 to February 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p>Sea level (Image 2):</p>  <p>Papua New Guinea Monthly Near Real Time Sea Level Anomaly: February 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO SeaWiFS SLA</p>	
<p>Daily coral bleaching alert (Image 3):</p>  <p>Papua New Guinea Daily Coral Bleaching Alert: 06 March 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>	 <p>Pacific Ocean Daily Coral Bleaching Alert: 06 March 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>NOAA Coral Reef Watch</p>

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024

Monthly: April	Seasonal: April to June
<p>Monthly sea surface temperature (Image 5):</p> <p>Difference from average sea surface temperature forecast for April 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Raw satellite data extracted from SeaWiFS Marine Institute (2019), Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegifs.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Seasonal sea surface temperature (Image 6):</p> <p>Difference from average sea surface temperature forecast for April to June 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Raw satellite data extracted from SeaWiFS Marine Institute (2019), Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegifs.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>
<p>Monthly sea level (Image 7):</p> <p>Difference from average sea surface height forecast for April 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Raw satellite data extracted from Jason-3 Marine Institute (2019), Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegifs.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>	<p>Seasonal sea level (Image 8):</p> <p>Difference from average sea surface height forecast for April to June 2024</p>  <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Raw satellite data extracted from Jason-3 Marine Institute (2019), Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at http://www.marinegifs.org/</p> <p>Model run: 04/03/2024 Issued: 06/03/2024</p>
<p>4-week Coral Bleaching (Image 9):</p> <p>Papua New Guinea 4 Weeks Coral Bleaching Outlook: 31 March 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, CSIRO/NOAA Coral Reef Watch</p>	<p>Pacific Ocean 4 Weeks Coral Bleaching Outlook: 24 March 2024</p>  <p>© Commonwealth of Australia 2024 Australian Bureau of Meteorology, CSIRO/NOAA Coral Reef Watch</p>

Summary Statement

Monthly and last three months: February 2024/December 2023 to February 2024 statement

The rainfall for February was above normal over Wewak, Kavieng and Port Moresby, and below at Vanimo, which had its driest February on record. For the past three months, rainfall was above normal at Kavieng, below normal at Wewak, and near-normal at Port Moresby. Rainfall data are missing for the other sites.

Part 1i. Monthly and Seasonal Outlooks for April and April to June 2024

Monthly /Seasonal rainfall and temperature Outlook statements

April rainfall is likely or very likely to be above normal over most of the country. The exceptions are in the southeast where rainfall is likely to be below normal over parts of Western, Oro, Central and Milne Bay Provinces.

The rainfall for April to June is likely or very likely to be above normal over the Islands Region, and most of the mainland. In parts of the Southern Region the outlook offers little guidance, apart from the islands situated in Milne Bay where April to June rainfall is likely to be below normal.

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

Part 2: Recent Ocean summary statement

Monthly and last three months: February 2024/December 2023 to February 2024

February ocean temperatures around southern region and parts of northern PNG were 1.0°C above normal.

Averaged over December to February, ocean temperatures around PNG were 0.5 to 1.0°C above normal.

February sea levels around PNG were 100mm above normal for southern PNG.

Coral bleaching alert shows Alert Level 2 for southern PNG.

Part 2i. Monthly and Seasonal Outlooks for April and April to June 2024

Ocean Variable statement

April ocean temperatures around PNG are predicted to be 0.4 to 0.8°C above normal.

Averaged over April to June, ocean temperatures around PNG are predicted to be 0.4 to 0.8°C above normal.

April sea levels around PNG are predicted to be -30mm to 100mm above normal and 30mm to 60mm for other parts of PNG.

Averaged over April to June, sea levels around PNG are predicted to be -30mm to 60mm above normal for Southern PNG.

IN BRIEF for Teleconference

- Rainfall was mostly below normal to above normal for both one and three months.
- The rainfall outlook generally indicates above normal is most likely in April and April to June.

- SSTs were above normal for February and December to February. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSH) were above normal for February. Above normal sea surface heights are predicted for March and March to May.
- Coral bleaching alert and alert and outlook predicts Alert level 2 for southern PNG.

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

Product	Date: February 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Climate Bulletin						
Drought Bulletin	19th	NGOs, Consultants, Construction Companies, Govt Agencies, Companies	215	177	38	
Ok Tedi Mine Brief	27th	Ok Tedi Staff	10	9	1	
Climate data request	All of Feb	NGOs, Consultants, Construction Companies, Govt Agencies, Companies	9	6	3	
Total			234	192	42	