

Country: PNG

Part 1: Recent climate

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2024	Feb-2024	Mar-2024				
	Total (mm)	Total (mm)	Total (mm)	33%tile	67%tile	Median	Rank
			Rainfall (mm)				
Momase Region							
Madang (1944-2022)				307.9	401.1	340.4	
Nadzab (1973-2024)	144.4			140.3	197.0	156.6	
Wewak (1956-2024)	54.2	188.8	145.8	130.7	183.2	153.4	33/67
Vanimo (1918-2024)		70.0	344.4	214.7	353.5	276.8	
Highlands Region							
Goroka (1948-2024)			380.2	210.5	277.1	241.0	
New Guinea Islands Region							
Momote (1949-2023)				267.4	333.7	295.1	
Kavieng (1916-2024)	298.8	387.2	561.8	269.7	371.7	326.3	86/91
Southern Region							
Misima (1917-2022)				214.2	320.7	253.8	
Port Moresby (1875-2024)	228.9	247.8	289.1	157.2	275.9	211.4	109/136

TABLE 2: Three-month Total Rainfall for January to March 2024

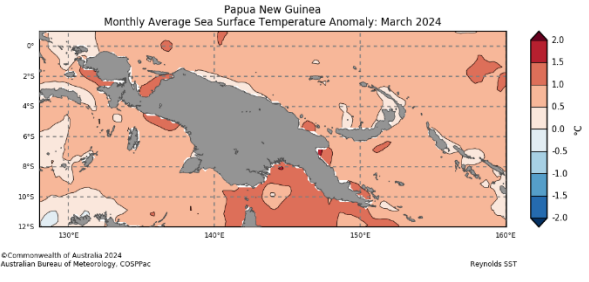
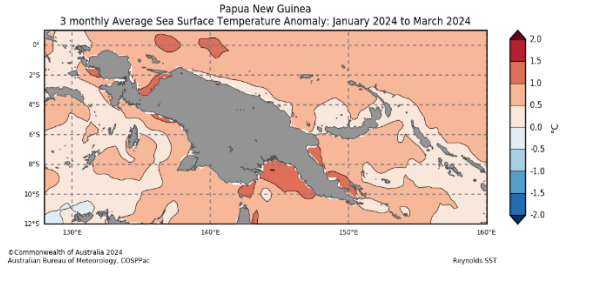
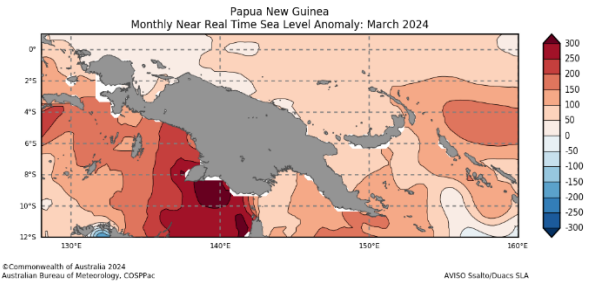
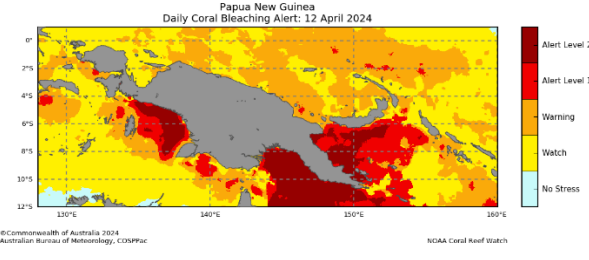
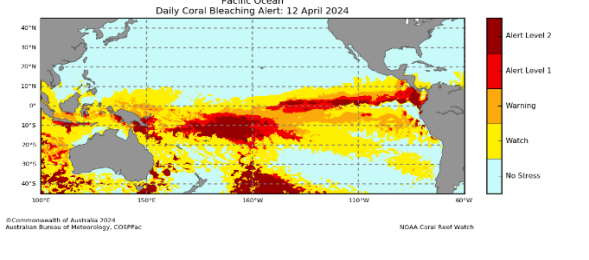
Station	Three-month Total		33%tile	67%tile	Median	Rank
	Rainfall (mm)					
Momase Region						
Madang (1944-2022)			897.6	1083.0	975.8	
Nadzab (1973-2024)			434.0	525.8	470.0	
Wewak (1894-2024)	388.8	Normal	374.8	454.4	428.3	24/67
Vanimo (1918-2024)			767.8	983.6	881.0	
Highlands Region						
Goroka (1948-2024)			641.7	780.0	709.5	
New Guinea Islands Region						
Momote (1949-2023)			751.3	881.1	804.6	
Kavieng (1917-2024)	1247.8	Above normal	838.8	987.1	918.6	79/88
Southern Region						
Misima (1917-2022)			697.9	908.3	783.3	
Port Moresby (1875-2024)	765.8	Above normal	534.0	680.2	601.4	119/136

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2024

Monthly: May	Seasonal: May to July
Rainfall (Image 1)	Rainfall (Image 2)
<p>Tercile rainfall probabilities for May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Map data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marineregions.org/">http://www.marineregions.org/</a></p> <p>Model run: 06/04/2024 Issued: 08/04/2024</p>	<p>Tercile rainfall probabilities for May to July 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Map data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marineregions.org/">http://www.marineregions.org/</a></p> <p>Model run: 06/04/2024 Issued: 08/04/2024</p>
Monthly Maximum temperature (Image 3):	Seasonal maximum temperature (Image 4):
<p>Tercile maximum temperature probabilities for May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Map data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marineregions.org/">http://www.marineregions.org/</a></p> <p>Model run: 06/04/2024 Issued: 08/04/2024</p>	<p>Tercile maximum temperature probabilities for May to July 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Map data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marineregions.org/">http://www.marineregions.org/</a></p> <p>Model run: 06/04/2024 Issued: 08/04/2024</p>
Monthly minimum temperature (Image 5):	Seasonal minimum temperature (Image 6):
<p>Tercile minimum temperature probabilities for May 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Map data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marineregions.org/">http://www.marineregions.org/</a></p> <p>Model run: 06/04/2024 Issued: 08/04/2024</p>	<p>Tercile minimum temperature probabilities for May to July 2024</p> <p>Base period: 1981-2018 Model: ACCESS-S2 © Commonwealth of Australia 2024, Australian Bureau of Meteorology Map data extracted from Flinders Marine Institute (2019), Maritime Boundaries Geodatabase: Maritime Boundaries and Exclusive Economic Zones (200NM), version 11. Available online at <a href="http://www.marineregions.org/">http://www.marineregions.org/</a></p> <p>Model run: 06/04/2024 Issued: 08/04/2024</p>

Part 2: Recent Ocean Observation

Monthly/Three months: March 2024 and January to March 2024

<p><b>Monthly: March 2024</b></p> <p><b>Sea Surface Temperature (Image 1):</b></p>  <p>Papua New Guinea Monthly Average Sea Surface Temperature Anomaly: March 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>	<p><b>Last three months: January to March 2024:</b></p> <p><b>Sea Surface Temperature (Image 4):</b></p>  <p>Papua New Guinea 3 monthly Average Sea Surface Temperature Anomaly: January 2024 to March 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>Reynolds SST</p>
<p><b>Sea level (Image 2):</b></p>  <p>Papua New Guinea Monthly Near Real Time Sea Level Anomaly: March 2024</p> <p>©Commonwealth of Australia 2024 Australian Bureau of Meteorology, COSPPac</p> <p>AVISO Ssalto/Duacs SLA</p>	
<p><b>Daily coral bleaching alert (Image 3):</b></p>  <p>Papua New Guinea Daily Coral Bleaching Alert: 12 April 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: 12 April 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 May and May to July 2024

Monthly: May	Seasonal: May to July
Monthly sea surface temperature (Image 5): <div></div>	Seasonal sea surface temperature (Image 6): <div></div>
Monthly sea level (Image 7): <div></div>	Seasonal sea level (Image 8): <div></div>
4-week Coral Bleaching (Image 9): <div></div>	<div></div>

Summary Statement

Monthly and last three months: March 2024/January to March 2024 statement

The rainfall for March and for the past three months, was above normal to near-normal over PNG.

Part 1i. Monthly and Seasonal Outlooks for May and May to July 2024

Monthly /Seasonal rainfall and temperature Outlook statements

The rainfall for May is likely to be above normal to near-normal over the Islands and Highlands Regions, Wewak, Vanimo and Gulf areas. In Madang, Morobe, Western and Oro, the outlook offers little guidance as chances of above

normal, below normal and near normal are similar. May's rainfall is likely to be below normal over Milne Bay and Central.

The rainfall for May to July is very likely to be above normal over the Islands region including Bougainville. In Highlands region, Wewak, Vanimo, and Gulf areas, rainfall is likely to be above normal to near normal. Rainfall over Milne Bay, Madang, Morobe, Western and Central, is likely to be below normal to near-normal.

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

## **Part 2: Recent Ocean summary statement**

### **Monthly and last three months: March 2024/January to March 2024**

March and averaged over January to March ocean temperatures around PNG were 0.5 to 1.5°C above normal.

March sea levels around PNG were 50 to 100mm above normal.

Coral bleaching alert shows Alert Level 1 for northern PNG and alert level 2 for southern PNG.

## **Part 2i. Monthly and Seasonal Outlooks for May and May to July 2024**

### **Ocean Variable statement**

May and averaged over May to July ocean temperatures around PNG are predicted to be 0.4 to 1.2°C above normal.

May and averaged May to July sea levels around PNG are predicted to be -30mm to 30mm near normal.

Coral bleaching 4-week outlook shows Alert Level 1 for northeastern PNG and Alert Level 2 for eastern PNG.

### **IN BRIEF for Teleconference**

- Rainfall was near-normal above normal for May and May to July across PNG.
- The rainfall outlook generally indicates above normal over northern parts of PNG and below normal over southern parts of PNG to be most likely in the next one and three months.
- SSTs were above normal for March and January to March. The outlook shows above normal SSTs for the next one and three months.
- Sea-surface heights (SSHs) were above normal for March. Near normal sea surface heights are predicted for May and May to July.
- Coral bleaching Alert Level 1 for northern PNG and alert level 2 for southern PNG. Coral bleaching 4-week outlook shows Alert Level 1 for northeastern PNG and Alert Level 2 for eastern PNG.

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

Product	Date: March 2024	Stakeholder	Total Number of Participants	Number of Male	Number of Female	Comments (If there are comments from you Stakeholders)
Ok Tedi Mine Brief	15th March	Ok Tedi Staff	10	9	1	
Drought Update	26 <sup>th</sup> March	NGOs, Consultants, Construction Companies, Govt Agencies, Companies, General public	215	177	38	
Climate data request	All of March	NGOs, Consultants, Construction Companies, Govt Agencies, Companies	6	5	1	
<b>Total</b>			<b>231</b>	<b>191</b>	<b>40</b>	