# Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 173

**Country: Papua New Guinea** 

Part 1: Recent climate

**TABLE 1: Monthly Rainfall** 

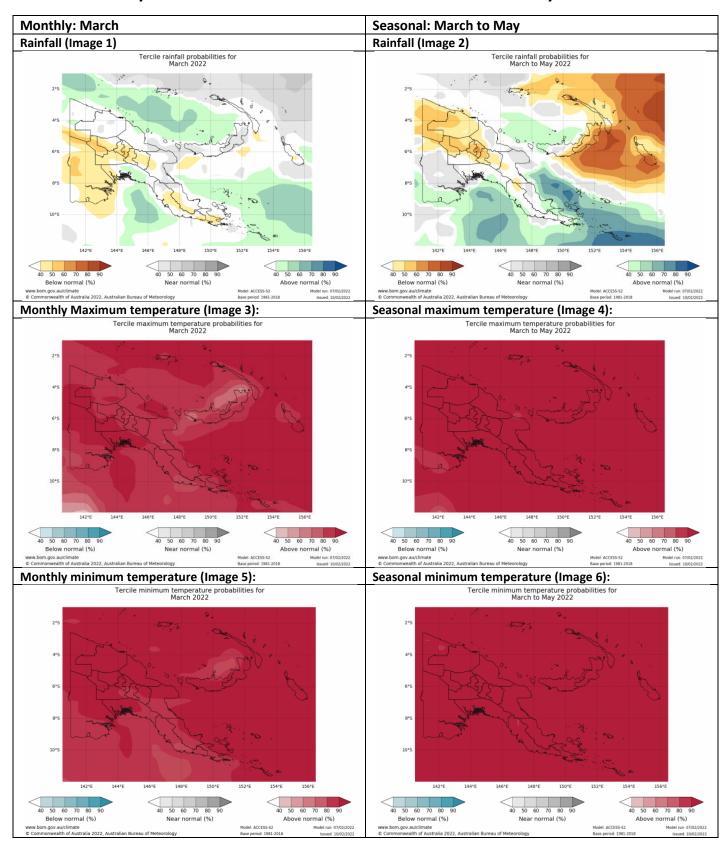
Station (include data period)	Nov- 2021	Dec- 2021	Jan-2022				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				Nalik
Momase Region							
Madang (1944-2022)				270.2	374.7	334.8	
Nadzab (1973-2022)	18.0	225.4	156.6	134.0	182.5	155.6	26/48
Wewak (1956-2022)	387.8	241.6	164.8	110.9	160.4	138.4	48/67
Vanimo (1918-2022)	287.2	308.6	674.8	213.1	340.7	282.3	71/71
Highlands Region							
Goroka (1948-2022)			195.0	194.9	266.6	225.4	21/61
New Guinea Islands Region							
Momote (1949-2022)	186.0	336.0	236.6	242.9	318.8	274.2	24/71
Kavieng (1916-2022)	162.4	348.2	334.0	256.2	358.6	315.6	47/91
Southern Region							
Misima (1917-2022)	108.4			189.7	306.4	268.0	
Port Moresby (1875-2022)	171.9	144.0	176.8	151.3	235.3	195.0	66/134

**TABLE 2: Three-month Total Rainfall for November 2021 to January 2022** 

Station	Three-month Total		33%tile	67%tile	Median	Rank	
Momase Region							
Madang (1944-2022)			953.0	1120.0	1036.4		
Nadzab (1973-2022)	400.0	Normal	318.2	471.0	405.5	22/47	
Wewak (1894-2022)	794.2	Above normal	441.0	556.4	486.0	64/65	
Vanimo (1918-2022)			674.9	841.9	737.6		
Highlands Region							
Goroka (1948-2022)			536.5	644.4	597.2		
New Guinea Islands Region							
Momote (1949-2022)	758.6	Normal	729.4	886.8	825.4	30/71	
Kavieng (1917-2022)	844.6	Normal	773.9	956.8	848.6	42/89	
Southern Region							
Misima (1917-2022)			602.4	748.7	672.3		
Port Moresby (1875- 2022)	492.7	Above normal	339.2	478.2	402.8	100/122	

NB: The X LEPS % score has been categorised as follows:

# Part 1i. Monthly and Seasonal Outlooks for March and March to May 2022

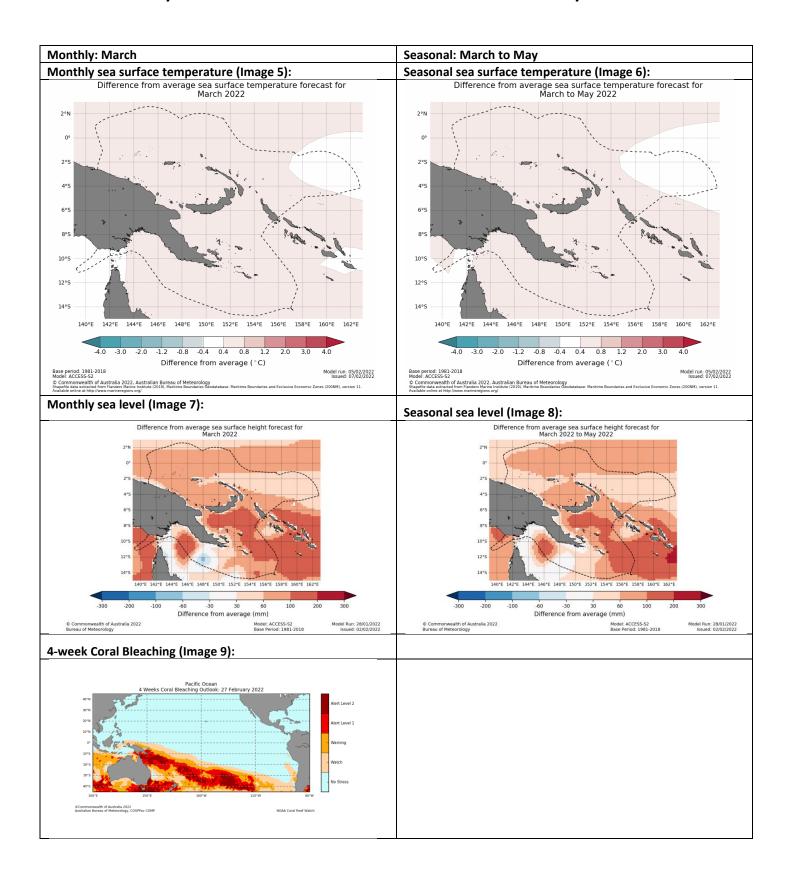


# Part 2: Recent Ocean summary statement

## Monthly: January 2022

Monthly: January	Last three months: November 2021 to January 2022:
Sea Surface Temperature (Image 1):	Sea Surface Temperature (Image 4):
Papua New Guinea  Monthly Average Sea Surface Temperature Anomaly: January 2022  20 15 10 0.5 0.5 0.5 1.5 1.5 2.0  Ecomomonealth of Australia 2022  Australian Bureau of Meteorology, COSPPac COMP  Reynolds SST	3 monthly Average Sea Surface Temperature Anomaly: November 2021 to January 2022  20 15 10 05 00.0 00 05 11.0 11.5 12.5 22.0  Australian Bureau of Meteorology, COSPFac COMP  Reyrolds SST
Sea level (Image 2):	
Papua New Guinea  Monthly Near Real Time Sea Level Anomaly: January 2022  250 250 250 250 250 250 250 250 25	
Daily coral bleaching alert (Image 3):	
Daily Coral Bleaching Alert: 05 February 2022  Alert Level 2  Alert Level 1  Warning  Watch  No Stress  Communication fluorists 2022  Autoralian flures of Meteroslogy, COSPPsc COMP  NOAA Coral Reef Watch	

# Part 2i. Monthly and Seasonal Outlooks for March and March to May 2022



High: 15≤ X < 25

Very Low: X < 0.0 Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$ 

Very High:  $25 \le X < 35$  Exceptional:  $X \ge 35$ 

### **Summary Statement**

Monthly and last three months: January 2022/November 2021 to January 2022 statement (Highly significant changes)

Rainfall for January was below normal at Momote. Momase region received above normal rainfall except Nadzab with normal rainfall recorded. Goroka, Kavieng and Port Moresby also recorded normal rainfall. Vanimo received its wettest January on record.

Rainfall for the last three-months was normal at Nadzab, Momote and Kavieng, and above normal for Wewak and Port Moresby. Wewak received its 2<sup>nd</sup> wettest November to January on record.

Rainfall data is not available for Misima.

## Part 1i. Monthly and Seasonal Outlooks for March and March to May 2022

### Monthly /Seasonal rainfall and temperature Outlook statements (Highly significant changes)

The outlook for PNG for January offers little guidance except for Western, Highlands and parts of Southern and Milne Bay which are likely to be below normal. The outlook is also likely to be above normal for Milne Bay islands.

Rainfall outlooks for PNG for March to May are very likely to be below normal for Wewak, Vanimo, Highlands and the New Guinea Islands Region, and above normal for the Milne Bay Islands.

The maximum and minimum temperature outlook for PNG for March and March to May is very likely to be above normal.

### Part 2: Recent Ocean summary statement

#### Monthly and last three months: January/November 2021 to January 2022 (Highly significant changes)

Most of PNG in January experienced above average SSTs with significant above normal SSTs in northern region at 0.5-1.5 degree Celsius. Below normal SSTs are also observed north of New Britain, south of the Southern Region and western side of Milne Bay in January 2022.

The sea level anomaly for PNG in January was normal to above normal, with waters ranging from 0 to 250mm above average.

PNG has a 'warning to alert level 2' coral bleaching alert status for patches around the coastlines.

## Part 2i. Monthly and Seasonal Outlooks for March and March to May 2022

#### **Ocean Variable statement** (Highly significant changes)

The outlook across PNG shows sea surface heights are likely to be normal to above average for March and March to May. Above normal sea surface height is predicted to reach 0.1 to 0.3 meters above normal in southeastern waters.

The outlook of coral bleaching for PNG shows a 'warning to alert level 2' status for most of the south to eastern regions.

NB: The X LEPS % score has been categorised as follows:

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

Product	Date: January 2022	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	27	National Disaster Centre, Climate Change Development Authority, Provincial Disaster coordinators, Universities, NWS Staff, Mining & energy Sector, Agriculture, Fisheries, Water PNG, Forestry, Tourism Promotion Authority, Education, Health, Aviation, Shipping, Transport, Banking Institutions, World Vision, UNDP, AHC/DFAT, Customs and Immigration, National Maritime Safety Authority, Coffee & Copra Industry, National Capital District Commission, Mineral Resource Authority, Media, PNG Power, Telikom, OkTedi, CASAPNG, Dept Planning, Dept Works, Datec, IPA, SMEC, IOM,	164	128	36
EAR Watch					
Monthly Climate Briefing					
Ocean Outlook					
Climate data request		Investment Promotion Authority, PSM (Engineering Consultants), EASPNG (Consultants)	5	4	1
		Total	169	132	37