## Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 168 Country: Papua New Guinea Part 1: Recent climate

## TABLE 1: Monthly Rainfall

	Jun-2021 Jul-2021		Aug-2021				
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Donk
	Total (mm)	Total (mm)	Rainfall (mm)				Rank
Momase Region							
Madang (1944-2021)				64.0	142.8	100.5	
Nadzab (1973-2021)	130.4	162.8		81.9	155.6	111.6	
Wewak (1956-2021)	318.0	319.8	133.0	116.5	210.5	146.2	28/66
Vanimo (1918-2021)	247.8	206.8	203.6	138.7	193.3	166.0	49/66
		Highla	nds Region				
Goroka (1948-2021)		28.0		49.5	84.0	64.6	
New Guinea Islands Region							
Momote (1949-2021)	173.8	202.8	355.2	222.5	332.4	276.4	53/72
Kavieng (1916-2021)	170.8	140.6	239.8	158.7	255.4	205.9	55/90
Southern Region							
Misima (1917-2021)	439.0	396.8	326.6	80.4	162.6	109.0	82/96
Port Moresby (1875-2021)	30.4	15.2	10.8	8.4	31.8	15.6	53/122

### TABLE 2: Three-month Total Rainfall for June to August 2021

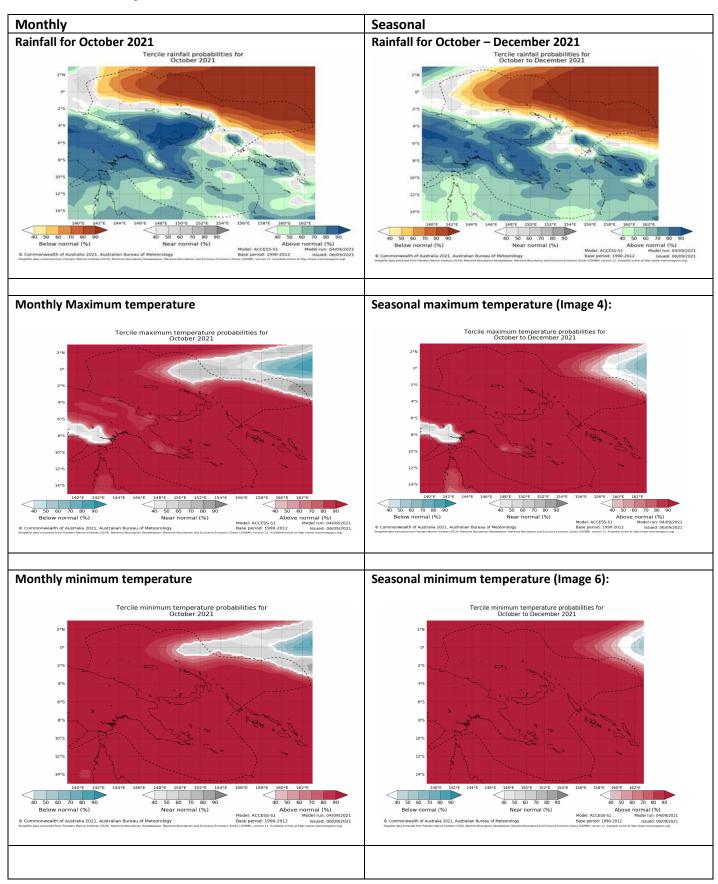
Station	Three-	month Total	33%tile 67%tile Me		Median	Rank
Momase Region						
Madang (1944-2021)			403.2	546.9	473.0	
Nadzab (1973-2021)			295.0	424.0	329.0	
Wewak (1894-2021)	770.8	Above normal	481.8	616.5	557.0	59/66
Vanimo (1918-2021)	658.2	Above normal	516.4	632.0	560.2	47/64
Highlands Region						
Goroka (1948-2021)			169.8	244.4	191.0	
New Guinea Islands Region						
Momote (1949-2021)	731.8	Below normal	812.0	1063.5	960.9	22/71
Kavieng (1917-2021)	551.2	Below normal	587.8	787.2	709.8	26/90
Southern Region						
Misima (1917-2021)	1162.4	Above normal	336.6	546.4	458.9	86/93
Port Moresby (1875-2021)	56.4	Below normal	56.9	112.4	87.5	38/108

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

Very Low: X < 0.0

Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$ 

# Part 1i. Monthly and Seasonal Outlooks for October and October to December 2021



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

Very Low: X < 0.0

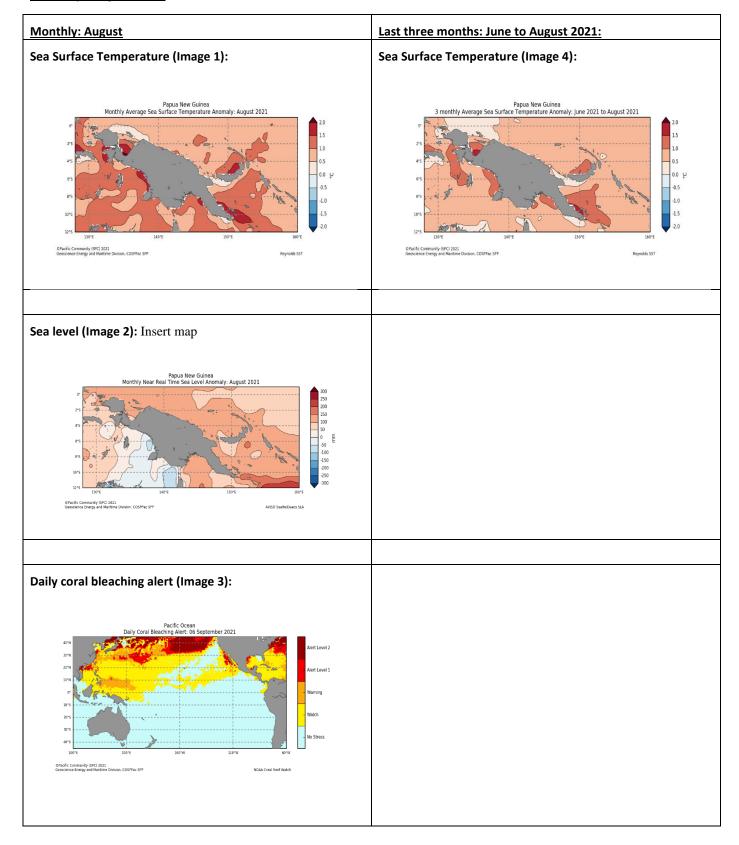
Low: 0 ≤ X < 5

Moderate  $5 \le X < 10$ 

Good: 10 ≤ X < 15 High: 15≤ X < 25

## Part 2: Recent Ocean summary statement

## Monthly: August 2021

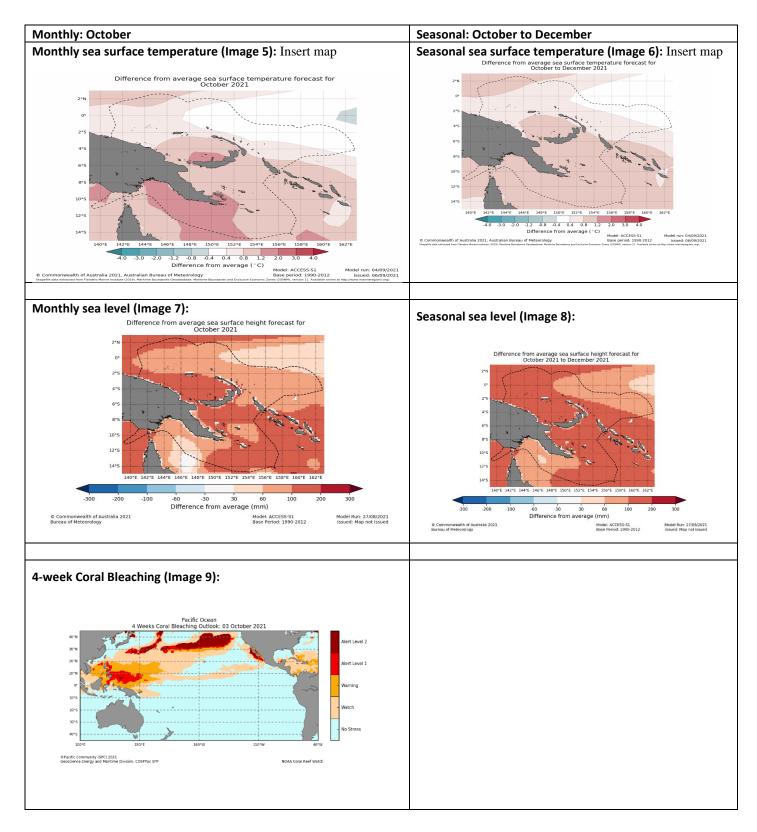


#### NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0

Low:  $0 \le X < 5$ 

## Part 2i. Monthly and Seasonal Outlooks for October and October to December 2021



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

Very Low: X < 0.0

Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$ 

## **Summary Statement**

### Monthly and last three months: August 2021/June to August statement

### Monthly: August 2021 statement

Normal rainfall was received at Wewak, Kavieng and Port Moresby whilst above normal was recorded at Vanimo, Momote and Misima.

Rainfall data was not available for Madang, Nadzab and Goroka.

### Last three months: June to August 2021 statement

### Rainfall

Below normal rainfall was recorded at Port Moresby and the New Guinea Islands region whilst above normal was recorded at Misima and two stations in the Momase region. Madang, Nadzab and Goroka could not be analysed due to unavailability of data. It was the 8<sup>th</sup> wettest June to August on record at Misima.

## Part 1i. Monthly and Seasonal Outlooks for October and October to December 2021

## Monthly /Seasonal rainfall and temperature Outlook statements

## Monthly Rainfall outlook statements

The rainfall outlook for PNG (except for Momote, Vanimo, Wewak, Oro) for October is very likely to be above normal. Above normal rainfall is very likely for East and West New Britain, Nadzab, Southern Highlands, Enga, Western, Gulf, NCD and the Islands of Milne Bay. Normal rainfall is likely for Momote, Vanimo, Wewak and Oro Province.

#### **Seasonal Rainfall statements**

Rainfall outlooks for PNG for October to December (except for Kavieng and Momote) is very likely to be above normal. Rainfall is likely to be below normal for October to December in Momote and Kavieng.

#### Monthly and Seasonal Maximum Temperature statements

The maximum temperature outlook for PNG for October and October to December is very likely to be above normal except for southern parts of Western Province where it is to be near normal

#### Monthly and Seasonal Minimum Outlook statements

The minimum temperature outlook for PNG for October and October to December is very likely to be above normal.

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

## Part 2: Recent Ocean summary statement

## Monthly and last three months: August/June to August 2021

## Sea Surface Temperature statement

Most of Papua New Guinea experienced above average SST in the month of August 2021. Significant warm SSTs were experienced on the western side of Milne Bay, moving across the Bismark Sea to the north of New Britain island. Highest SSTs were 1.5 degrees above average and located off the coast of Milne Bay and New Britain Provinces

## Sea level statement

The sea level anomaly across Papua New Guinea in August 2021 was higher than normal, with majority of the waters range of 100 to 150 mm above average.

## Daily bleaching alert statement

PNG has a coral bleaching 'watch' alert status for much of the region.

## Last three months Sea Surface Temperature

Last three months Sea Surface Temperature statement for June to August 2021 period, warmer than average SSTs were experienced in PNG ranging from 0.5 to 1.5 degrees above average.

## Part 2i. Monthly and Seasonal Outlooks for October and October to December 2021

## **Ocean Variable statement**

## Monthly sea surface temperature statement

The outlook for PNG shows a significant temperature difference of 0.8-2.0°C for October.

## Seasonal Sea Surface Temperature statement

The outlook for PNG shows SSTs are likely to be above average (0.8- 1.2 degrees) for the October to December period.

## Monthly sea level statement

The outlook across PNG shows sea surface heights are likely to be above average for October. In the north of PNG is predicted to reach 0.1 to 0.2 metres above normal.

## Seasonal sea level statement

The outlook across PNG shows sea surface heights are likely to be above average for October to December and is predicted to reach 0.1 to 0.2 metres above normal.

## 4-week Coral Bleaching

The outlook for PNG shows a Warning alert for New Britain waters Watch alert in north coast of PNG.A watch is on for waters south of New Britain Island moving on to coast of Milne Bay.

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

Very Low: X < 0.0Low:  $0 \le X < 5$ Moderate  $5 \le X < 10$ Good:  $10 \le X < 15$ High:  $15 \le X < 25$ 

Product	Date: August 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	17 <sup>th</sup>	National Disaster Centre, Climate	145	103	42
		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			
EAR Watch	23rd	Govt: National Disaster Centre, Dept. Of	140	91	49
		Transport, National Agriculture Research			
		Institute, Dept. Of Agriculture and			
		Livestock, Provincial Disaster			
		Coordinators, Civil Aviation Safety			
		Authority, Climate Change Development			
		Authority, Dept. Of			

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

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

Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$ 

Very Low: X < 0.0

	Mineral Policy and		
	Geohazard Managment, PNG DFAT,		
	Centre of Environmental Protection		
	Authority, National Capital District		
	Commission, Dept. of Education. UN		
	Agencies : UNDP, FAO, IOM, Oxfam.		
	NGOs : Childfund, WVI, PNGRC. Private:		
	Pacific Hydo Services, PNG Power, Ok		
	Tedi Mining Ltd, Media. Aus DFAT, DAL Provincial Officers		
Monthly Climate Briefing			
Ocean Outlook			
	Total	285 194	91

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

Very Low: X < 0.0

Low:  $0 \le X < 5$  Moderate  $5 \le X < 10$  Good:  $10 \le X < 15$  High:  $15 \le X < 25$