Country: Papua New Guinea

TABLE 1: Monthly Rainfall

	Feb- 2021	Mar- 2021	Apr-2021					
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank	
	Total (mm)	Total (mm)	Rainfall (mm)					
Momase Region								
Madang (1944-2021)	274.2	415.4	426.2	323.2	457.7	396.0	42/71	
Nadzab (1973-2021)	234.4	107.2	107.4	87.8	144.7	103.8	26/46	
Wewak (1956-2021)	319.0	185.8	251.4	161.1	232.2	186.4	49/64	
Vanimo (1918-2021)	793.6	141.6	252.0	183.3	287.3	225.9	38/66	
		Highla	nds Region					
Goroka (1948-2021)	372.0	242.8	209.4	157.7	217.8	193.1	34/57	
		New Guine	a Islands Re	gion				
Momote (1949-2021)	408.2	225.2	190.4	238.4	304.6	276.9	14/65	
Kavieng (1916-2021)	359.2	230.8	390.0	268.7	326.0	290.9	76/91	
Southern Region								
Misima (1917-2021)	208.4	387.6	273.0	207.9	336.2	253.9	51/96	
Port Moresby (1875-2021)	281.0	283.8	106.0	83.4	141.0	106.2	70/129	

TABLE 2: Three-month Rainfall for February to April 2021

Station	Three-month Total 33%tile 67%tile Median Rainfall (mm)		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2020				Verification: Consistent, Near- consistent, Inconsistent?
				B-N	N	A-N	LEPS				
Momase Region											
Madang (1944-2021)	1115.8	Normal	939.1	1145.8	1036.2	44/71	40	28	32	-1	Near-consistent
Nadzab (1973-2021)	449.0	Normal	397.6	512.9	457.7	18/44	45	26	29	2	Near-consistent
Wewak (1956-2021)	756.2	Above normal	433.9	519.7	475.9	61/63	26	40	34	-1	Near-consistent
Vanimo (1918-2021)	1187.2	Above normal	725.2	911.8	834.6	57/64	41	35	24	2	Inconsistent
				Hig	ghlands Regi	on					
Goroka (1948-2021)	824.2	Above normal	612.0	746.2	671.0	46/55	46	28	26	3	Inconsistent
	New Guinea Islands Region										
Momote (1949-2021)	823.8	Normal	756.9	933.9	801.2	34/64	30	35	35	-1	Near-consistent
Kavieng (1917-2021)	980.0	Above normal	824.8	957.2	893.5	42/87	45	28	27	2	Inconsistent
Southern Region											
Misima (1917-2021)	869.0	Normal	710.7	946.6	827.2	52/95	21	25	54	11	Near-consistent
Port Moresby (1875-2021)	670.8	Above normal	467.6	587.8	531.7	112/127	17	36	47	10	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2021Predictor and Period used: NINO3.4 for March to April 2021

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]			
Momase Region									
Madang (1944-2021)	19	473.0	81		33	77			
Nadzab(1973-2021)	52	329.0	48		-2	48			
Wewak (1956-2021)	31	557.0	69		13	69			
Vanimo (1918-2021)	56	560.2	44		0	55			
		Highla	nds Region						
Goroka (1948-2021)	47	191.0	53		-1	44			
		New Guine	a Islands Re	gion					
Momote (1949-2021)	54	960.9	46		0	55			
Kavieng (1916-2021)	55	709.8	45		0	55			
Southern Region									
Misima (1917-2021)	23	458.9	77		26	72			
Port Moresby (1875-2021)	39	87.5	61		6	59			

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]			
	Momase Region									
Madang (1944-2020)	9	403.2	36	546.9	55	28	54			
Nadzab (1973-2020)	34	295.0	31	424.0	35	-3	15			
Wewak (1956-2020)	17	481.8	34	616.5	49	12	42			
Vanimo (1918-2020)	38	516.4	32	632.0	30	-1	22			
		Highla	nds Region							
Goroka (1948-2020)	29	169.8	36	244.4	35	-1	27			
		New Guine	a Islands Re	gion						
Momote (1949-2020)	42	812.0	28	1063.5	30	1	25			
Kavieng (1916-2020)	35	587.8	38	787.2	27	-1	41			
Southern Region										
Misima (1917-2020)	15	336.6	26	546.4	59	22	49			
Port Moresby (1875-2020)	21	56.9	39	112.4	40	5	50			

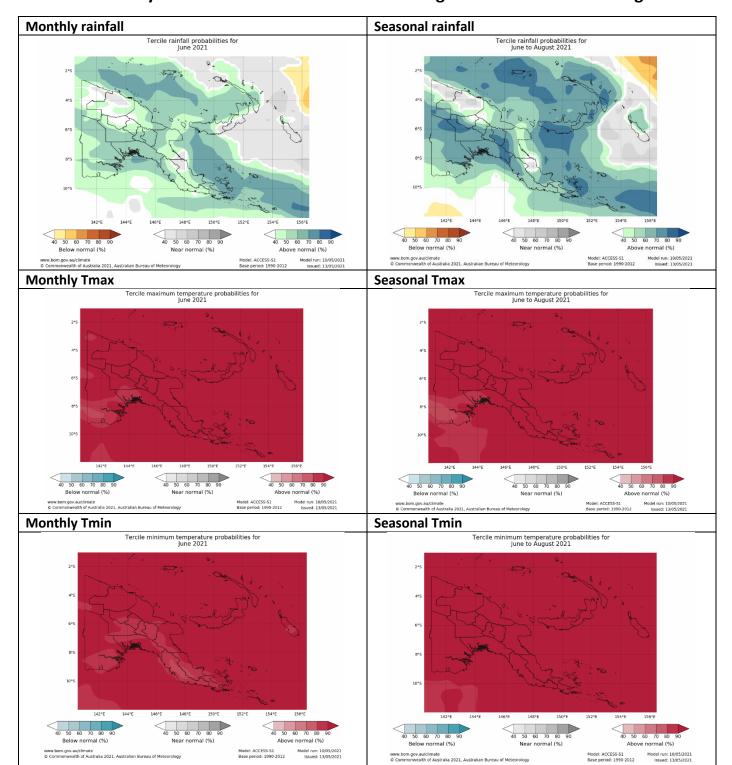


TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2021

Summary Statements

Rainfall for April 2021:

April rainfall was generally normal across the country, except for Wewak and Kavieng which received above normal rainfall, and Momote where rainfall was below normal.

Accumulated rainfall for February to April 2021, including outlook verification:

Accumulated rainfall was generally above normal or normal across the country. Wewak recorded its third wettest February to April rainfall on record.

The forecast issued in January was verified as consistent in Port Moresby, inconsistent at Vanimo, Goroka and Kavieng, and Near-consistent at the remaining five sites.

Outlooks for June to August 2021:

1. SCOPIC:

Madang and Misima: The outlook favours above normal rainfall.

Wewak: Above normal is the most likely outcome, with normal the next most likely. Below normal is the least likely.

Momote: Below normal rainfall is the most likely outcome, with above normal the next most likely. Normal is the least likely.

Port Moresby: The outlook shows a near-equal likelihood of above normal and normal rainfall. Below normal is the least likely.

Kavieng: The outlook shows a near-equal likelihood of below normal and normal rainfall. Above normal is the least likely.

Other stations: The outlook offers little guidance as the chances of below normal, normal and above normal are similar.

Confidence ranges from very low to very high.

2. ACCESS-S:

Monthly rainfall:

Above normal rainfall is favoured in **June** for the country, except for parts of Sepik, Oro, New Britain and AROB where normal rainfall is most likely.

Monthly maximum and minimum temperature:

Above normal temperatures are favoured across the country in June.

Seasonal rainfall:

Above normal rainfall is favoured for the country for **June to August**, except for parts of Sepik, Oro and AROB where normal rainfall is most likely.

Seasonal maximum and minimum temperature:

Above normal temperatures are favoured across the country for June to August period.

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

TABLE 5: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: April 2021	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	9th	National Disaster Centre, Climate Change Development Authority, Provincial Disaster Coordinators, Universities, NWS staff, Mining and 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 and Copra industry, National Capital District Commission, Mineral Resource Authority, Media	145	103	42
EAR Watch	19th	National Disaster Centre, Climate Change Development Authority, Provincial Disaster Coordinators, Universities, BOM, SPREP, NWS staff, PNG Defence Force, Mining and Energy sector, Agriculture, Fisheries, Water PNG, Forestry, Tourism Promotion Authority, Education, Health, Aviation, Shipping, Transport, Banking institutions, World Vision, USAID, UNDP, IOM, AHC/DFAT, Customs and Immigration, National Maritime Safety Authority, Coffee and Copra industry, National Capital District Commission, Mineral Resource Authority, Media	138	80	58
Disaster Management Team meeting	22nd	National Disaster Centre, NWS, FAO, AHC, UNDP, UNHCR, UNDSS, UNRCO, STC, MSF, ICRC, Child Fund, UN Women, UNICEF, IOM	27	17	10
Monthly Climate Briefing	N/A				
Ocean Bulletin	N/A				
		Total	310	200	110