Country: Papua New Guinea

TABLE 1: Monthly Rainfall

	Sep- 2020	Oct-2020	Nov-2020					
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank	
	Total (mm)	Total (mm)		Kalik				
		Мото	ase Region					
Madang (1944-2020)	211.6	479.2						
Nadzab (1973-2020)	156.4	103.0	71.2	80.4	116.8	90.7	12/47	
Wewak (1956-2020)	214.2	280.4	350.8	154.6	236.6	197.5	61/63	
Vanimo (1918-2020)	66.4	308.8	277.4	162.5	241.3	201.4	52/64	
		Highla	nds Region					
Goroka (1948-2020)	76.0	278.8	185.5	128.9	180.7	155.0	38/54	
		New Guine	a Islands Re	gion				
Momote (1949-2020)	188.0	382.2	190.6	194.2	292.0	252.0	21/67	
Kavieng (1916-2020)	123.2	369.0	216.4	198.8	271.2	233.2	43/93	
Southern Region								
Misima (1917-2020)	302.4	367.2	341.8	124.4	219.7	166.0	78/95	
Port Moresby (1875-2020)	5.2	55.8	81.8	22.1	79.3	45.6	85/123	

TABLE 2: Three-month Rainfall for September to November 2020

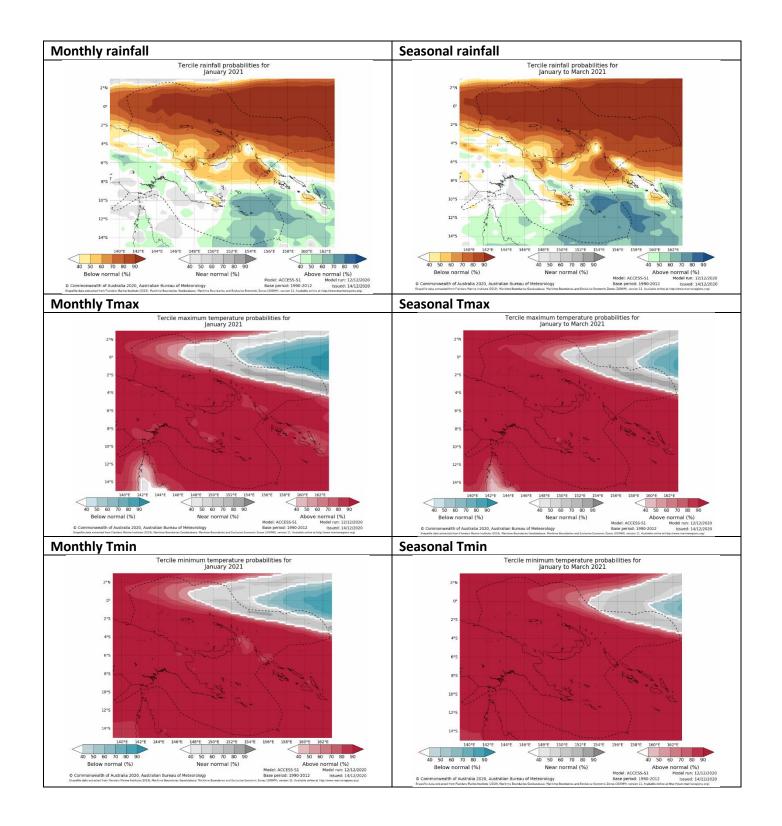
Station	Three-r	month Total	33%tile	67%tile	Median	Rank			st probabilitie .4 June-July 2		Verification: Consistent, Near- consistent,
Ra		Ra	infall (mm)				B-N	N	A-N	LEPS	Inconsistent?
	Momase Region										
Madang (1944-2020)			612.9	828.5	690.2		23	45	32	31	
Nadzab (1973-2020)	330.6	Normal	239.5	340.3	285.2	28/45	26	38	36	15	Consistent
Wewak (1894-2020)	845.4	Above normal	528.3	666.1	589.1	57/61	22	40	38	19	Near-consistent
Vanimo (1918-2020)	652.6	Above normal	502.3	633.9	541.0	44/60	32	33	35	4	Consistent
				Hig	ghlands Regio	on					
Goroka (1948-2020)	540.3	Above normal	355.0	474.0	423.0	43/52	34	33	33	0	Near-consistent
				New Gu	inea Islands	Region					
Momote (1949-2020)	760.8	Normal	658.0	798.0	730.5	40/67	33	33	34	-2	Near-consistent
Kavieng (1917-2020)	708.6	Normal	554.7	780.5	684.2	54/91	33	33	34	-2	Near-consistent
Southern Region											
Misima (1917-2020)	1011.4	Above normal	485.6	791.0	676.0	81/94	27	39	34	20	Near-consistent
Port Moresby (1875-2020)	142.8	Normal	80.6	158.8	109.8	71/112	31	37	32	17	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March2021Predictor and Period used: NINO3.4 for October to November 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
		Mom	ase Region					
Madang (1944-2020)	72	975.8	28		13	63		
Nadzab(1973-2020)	73	471.4	27		13	64		
Wewak (1894-2020)	35	428.3	65		6	66		
Vanimo (1918-2020)	62	876.4	38		3	58		
		Highla	Inds Region					
Goroka (1948-2020)	64	709.8	36		5	64		
		New Guine	a Islands Re	gion				
Momote (1949-2020)	56	811.2	44		0	56		
Kavieng (1916-2020)	64	927.5	36		5	57		
Southern Region								
Misima (1917-2020)	35	787.9	65		6	59		
Port Moresby (1875-2020)	40	607.8	60		2	60		

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]	
		Mom	ase Region					
Madang (1944-2020)	54	901.2	20	1078.9	26	9	49	
Nadzab (1973-2020)	52	436.7	27	533.3	21	10	49	
Wewak (1894-2020)	21	368.4	34	453.2	45	4	42	
Vanimo (1918-2020)	38	761.9	41	943.9	21	1	39	
		Highla	nds Region					
Goroka (1948-2020)	44	647.9	42	785.8	14	9	48	
		New Guine	a Islands Re	gion				
Momote (1949-2020)	39	765.2	38	923.0	23	2	31	
Kavieng (1916-2020)	47	852.9	26	993.5	27	3	45	
Southern Region								
Misima (1917-2020)	18	705.5	32	916.9	50	8	47	
Port Moresby (1875-2020)	24	537.3	36	680.2	40	2	43	

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for January to March 2021



Summary Statements

Rainfall for November 2020:

Rainfall was below normal at Nadzab and Momote, normal at Kavieng and above normal at all other monitoring stations.

Wewak recorded its third wettest November on record.

Accumulated rainfall for September to November 2020, including outlook verification:

Rainfall was normal to above normal throughout the country.

The forecast issued in August was consistent at Nadzab, Vanimo and Port Moresby, and near-consistent at remaining stations.

Outlooks for January to March 2021:

1. SCOPIC:

Madang, Nadzab: The outlook favours below normal.

Kavieng: The outlook shows below normal rainfall as the most likely, with above normal and normal equally the next most likely.

Wewak, Misima, Port Moresby: The outlook for season shows above normal as the most likely outcome with normal the next most likely. Below normal is the least likely.

Goroka, Vanimo, Momote: The outlook for season shows a near-equal likelihood of below normal and normal rainfall. Above normal is the least likely.

Confidence ranges from low to moderate

2. ACCESS-S:

Monthly rainfall:

New Guinea Islands: Below normal rainfall is favoured in this region in January.

Momase & Highlands: Little guidance as chances of below normal, normal and above normal are similar, except for the Southern Highlands region where above normal rainfall is the most likely outcome.

Southern: Normal to above normal rainfall is favoured for the month of January in many areas, although with significant regions showing little guidance.

Monthly maximum and minimum temperatures:

Above normal temperatures are favoured across the country for January.

Seasonal rainfall:

Below normal is favoured over the northern half of the EEZ, including the New Guinea Islands and coastal areas of the Momase, as well as the southeast tip of the mainland. Above normal rainfall is favoured at Misima and Tagula Island, but for most other parts of the country there is little guidance for the coming season.

Seasonal maximum minimum temperatures:

Above normal temperatures are favoured across the country for January to March.

NB: The X LEPS % score ł	nas been categorised as fo	illows:		
Very Low: X < 0.0	Low: 0 ≤ X < 5	Moderate 5 ≤ X < 10	Good: 10 ≤ X < 15	High: 15≤ X < 25
Very High: 25 ≤X < 35 Ex	ceptional: X ≥ 35			

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

Product	Date: November 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
EAR Watch	12th November	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 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			
CREWS Wokshop (Virtual)	19-20th Novmber	DAL, NDC, Red Cross, NWS, FAO, BoM, SPREP, WMO, RIMES, IOM, UNDP	25	12	13
DMT Meeting	26th November	National Disaster Centre, National Weather Service, University of Papua New Guinea, Centre of Environmental Protection Authority, National Agriculture Research Institute, Department of Works, Dept. Of Mineral Policy and Geohazard Managment,	13	7	6
		Total	178	110	68