Country: Papua New Guinea

TABLE 1: Monthly Rainfall

	Jan-2019 Feb-		Mar-2019				
Station (include data period)		2019	Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)		Rainfall (mm)			
Momase Region							
Madang (1944-2019)	303.0	596.0					
Nadzab (1973-2019)	343.6	179.6	169.0	142.0	203.2	158.8	25/44
Wewak (1894-2019)	189.0	126.8	98.0	132.3	184.0	157.7	10/63
Vanimo (1918-2019)	425.8	305.0	407.4	215.3	356.7	276.8	54/67
		Highla	nds Region				
Goroka (1948-2019)	196.8		328.2	204.3	274.9	234.5	47/57
		New Guine	a Islands Re	gion			
Momote (1949-2019)	282.9	167.6	324.6	275.0	339.9	304.2	38/63
Kavieng (1916-2019)	213.6		270.0	286.2	376.4	342.0	32/86
Southern Region							
Misima (1917-2019)	208.8		280.2	214.6	320.3	252.9	56/94
Port Moresby (1875-2019)	593.4	64.8	371.4	158.6	272.9	206.8	124/131

TABLE 2: Three-month Rainfall for January to March 2019

Station	Three-n	nonth Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 October-November 2018				Verification: Consistent, Near-
Station		Rainfall (mm)					B-N	N	A-N	LEPS	consistent, Inconsistent?
	Momase Region										
Madang (1944-2019)			984.0	1074.7	951.8		13	46	41	11	
Nadzab (1973-2019)	692.2	Above normal	434.0	525.8	470.4	41/44	17	40	43	8	Consistent
Wewak (1894-2019)	413.8	Normal	367.2	455.5	428.3	27/63	46	31	23	5	Near- consistent
Vanimo (1918-2019)	1138.2	Above normal	730.2	943.9	868.2	53/64	24	32	44	3	Consistent
				Hig	hlands Reg	ion					
Goroka (1948-2019)			643.0	788.2	716.6		21	28	51	8	
				New Gu	inea Islands	Region					
Momote (1949-2019)	775.1	Normal	764.4	924.2	815.0	24/63	29	27	44	1	Near- consistent
Kavieng (1917-2019)			854.0	1012.0	950.0		20	40	40	3	
Southern Region											
Misima (1917-2019)			714.3	931.3	785.4		48	33	19	8	
Port Moresby (1875- 2019)	1029.6	Above normal	504.6	638.8	574.1	130/131	43	33	24	4	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2019Predictor and Period used: NINO3.4 for February to March 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
		Mom	ase Region					
Madang (1944-2019)	73	744.2	27		18	69		
Nadzab(1973-2019)	56	305.8	44		-1	65		
Wewak (1894-2019)	61	630.2	39		5	57		
Vanimo (1918-2019)	48	608.2	52		-2	53		
		Highla	inds Region					
Goroka (1948-2019)	60	240.0	40		1	55		
		New Guine	a Islands Re	gion				
Momote (1949-2019)	47	907.2	53		-1	48		
Kavieng (1916-2019)	48	719.8	52		-2	49		
Southern Region								
Misima (1917-2019)	86	573.5	14		36	73		
Port Moresby (1875-2019)	34	118.8	66		7	55		

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 (1944-2019)	54	630.9	33	816.7	13	20	51
Nadzab (1973-2019)	32	274.0	33	373.0	35	-3	9
Wewak (1894-2019)	41	558.9	36	695.9	23	3	46
Vanimo (1918-2019)	34	578.7	30	687.7	36	-3	8
		Highla	nds Region				
Goroka (1948-2019)	46	211.0	28	277.8	26	3	41
		New Guine	a Islands Re	gion			
Momote (1949-2019)	27	798.1	38	1041.6	35	0	29
Kavieng (1916-2019)	37	637.0	22	783.5	41	-1	33
Southern Region							
Misima (1917-2019)	54	473.4	41	709.0	5	30	46
Port Moresby (1875-2019)	44	86.2	31	154.6	25	3	37

TABLE 4: Seasonal Climate Outlooks using POAMA2 for May to July 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)					
	Momase Region									
Madang	58	626.0	18	787.0	24					
Nadzab	76	241.0	12	300.0	12					
Wewak	58	575.0	24	667.0	18					
	New C	Guinea Islana	ls Region							
Momote	33	796.0	42	1046.0	25					
Kavieng	55	636.0	18	805.0	27					
	Southern Region									
Misima	91	453.0	5	622.0	4					
Port Moresby	88	90.0	5	151.0	7					
Daru	5	222.0	90	394.0	5					

Summary Statements

Rainfall for March 2019:

Below normal rainfall recorded at Wewak and Kavieng, normal rainfall recorded at Nadzab, Momote and Misima. Above normal rainfall was recorded at Port Moresby and Vanimo.

Accumulated rainfall for January to March 2019, including outlook verification:

Normal rainfall recorded at Momote and Wewak whilst above normal rainfall was recorded for Nadzab, Port Moresby and Vanimo.

Forecast was consistent at Nadzab and Vanimo, near consistent at Momote and Wewak and inconsistent at Port Moresby.

Three months totals were not available for Goroka, Kavieng, Madang and Misima

Outlooks for May to July 2019:

1. SCOPIC:

Nadzab and Vanimo – The outlook offers little guidance as the chances of above normal, normal and below normal are similar.

Goroka, Madang, Misima – The outlook shows below normal as the most likely outcome, with normal the next **Port Moresby, Wewak** most likely outcome. Above normal is the least likely outcome.

Kavieng – The outlook shows above normal as the most likely outcome with below normal the next most likely outcome. Normal is the least likely outcome

Momote – The outlook shows a near- equal likelihood of above normal and normal rainfall. Below normal is the least likely.

Confidence range from very low to very high

2. POAMA:

POAMA model favours normal rainfall for Daru and Momote and below normal rainfall for rest of the monitoring stations.

Very Low: X < 0.0Low: $0 \le X < 5$ Moderate $5 \le X < 10$ Very High: $25 \le X < 35$ Exceptional: $X \ge 35$

Good: $10 \le X < 15$ High: $15 \le X < 25$

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

Product	Date: March 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate					

Bulletin							
EAR Watch							
Monthly Climate Briefing							
Ocean Bulletin							
	Total						