Country: Papua New Guinea

TABLE 1: Monthly Rainfall

	May-	Jun-2018	Jul-2018					
Station (include data period)	2018		Total (mm)	Total (mm) 33%tile	67%tile	Median	Pank	
	Total (mm)	Total (mm)	Rainfall (mm)				Ndlik	
		Мот	ase Region					
Madang (1944-2018)		211.4	97.6	105.1	183.2	144.0	20/69	
Nadzab (1973-2018)	90.0	71.2	173.0	79.7	146.9	117.8	33/44	
Wewak (1956-2018)	263.6	257.0	178.0	153.4	207.6	177.8	33/63	
Vanimo (1918-2018)	223.8	189.0	177.4	136.6	218.4	188.3	29/64	
Highlands Region								
Goroka (1948-2018)	91.0	86.6	80.0	43.0	71.0	55.0	42/55	
		New Guine	a Islands Re	gion				
Momote (1949-2018)	137.0	334.8	435.4	312.1	413.3	351.0	46/65	
Kavieng (1916-2018)	252.6	163.8	289.8	201.0	281.6	228.5	62/88	
Southern Region								
Misima (1917-2018)	357.8	124.8	223.4	89.3	191.3	137.0	70/93	
Port Moresby (1875-2018)	61.6	1.4	21.6	5.1	24.9	13.2	75/119	

TABLE 2: Three-month Rainfall for May to July 2018

Station	Three-n	nonth Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 Month-Month 20xx			ies* 1th 20xx	Verification: Consistent, Near-
Station		Rai	infall (mm)			Numk	B-N	N	A-N	LEPS	consistent, Inconsistent?
Momase Region											
Madang (1944-2018)			630.3	813.3	743.2		13	34	53	20	
Nadzab (1973-2018)	334.2	Normal	269.2	373.4	301.5	25/43	35	32	33	-3	Near- consistent
Wewak (1956-2018)	698.6	Above normal	556.7	685.9	630.0	43/63	25	31	44	4	Consistent
Vanimo (1918-2018)	590.2	Normal	566.3	687.7	608.3	27/63	36	33	31	-3	Near- consistent
				Hig	hlands Regi	ion					
Goroka (1948-2018)	257.6	Normal	204.6	277.8	239.0	32/50	25	35	40	4	Near- consistent
				New Gu	inea Islands	Region					
Momote (1949-2018)	907.2	Normal	798.1	1041.6	901.2	33/64	40	28	32	0	Near- consistent
Kavieng (1917-2018)	706.2	Normal	634.1	820.2	730.6	41/86	28	45	27	0	Consistent
Southern Region											
Misima (1917-2018)	706.0	Normal	487.0	791.5	625.2	56/91	11	32	57	33	Near- consistent
Port Moresby (1875- 2018)	84.6	Normal	82.7	151.3	118.3	38/108	23	35	42	5	Near- consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2018Predictor and Period used: NINO3.4 for June to July 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]			
	Momase Region								
Madang (1944-2018)	68	694.6	32		27	72			
Nadzab(1973-2018)	57	276.8	43		10	67			
Wewak (1956-2018)	57	591.6	43		9	61			
Vanimo (1918-2018)	56	537.4	44		5	65			
		Highla	ands Region						
Goroka (1948-2018)	47	421.0	53		-1	57			
		New Guine	a Islands Re	gion					
Momote (1949-2018)	49	726.0	51		-2	32			
Kavieng (1916-2018)	51	665.1	49		-1	45			
Southern Region									
Misima (1917-2018)	66	686.4	34		22	71			
Port Moresby (1875-2018)	64	109.4	36		18	64			

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 (1944-2018)	47	622.9	38	833.6	15	29	58	
Nadzab (1973-2018)	39	235.7	36	344.5	25	14	45	
Wewak (1956-2018)	41	529.7	32	670.5	27	17	48	
Vanimo (1918-2018)	38	493.1	35	629.9	27	6	33	
		Highla	nds Region					
Goroka (1948-2018)	32	355.0	34	474.0	34	0	43	
		New Guine	a Islands Re	gion				
Momote (1949-2018)	35	657.0	34	800.9	31	-2	19	
Kavieng (1916-2018)	35	554.1	33	773.8	32	-2	20	
Southern Region								
Misima (1917-2018)	44	513.7	33	848.2	23	16	44	
Port Moresby (1875-2018)	43	88.0	38	152.8	19	16	45	

TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2018

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)			
		Momase Reg	ion					
Madang	33	551.0	24	698.0	43			
Nadzab	46	196.0	15	297.0	39			
Wewak	18	524.0	5	615.0	77			
	New (Guinea Island	ls Region					
Momote	36	632.0	21	783.0	43			
Kavieng	42	496.0	9	729.0	49			
Southern Region								
Misima	42	340.0	21	699.0	35			
Port Moresby	49	54.0	15	125.0	36			
Daru	5	73.0	83	170.0	12			

Summary Statements

Rainfall for July 2018:

Below normal was received at the Madang station whilst above normal was received at Nadzab, Goroka, NGI region and Misima. Rest of Momase Region and Port Moresby received normal rainfall.

Accumulated rainfall for May to July 2018, including outlook verification:

Wewak received above normal rainfall and the forecast was consistent.

All the other monitoring stations received normal rainfall and the forecast was near consistent except for Kavieng with a consistent forecast.

Three months total was not available for Madang station.

Outlooks for September to November 2018:

1. SCOPIC:

Madang, Wewak & Southern Region: the outlook shows below normal as the most likely outcome with normal the next most likely, above normal rainfall is the least likely.

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

Highlands & NGI Region: Outlooks offers little guidance as the chances of below normal, normal and above normal are similar.

Confidence ranges from very low to very high skill.

2. POAMA:

Madang, Wewak & NGI Region: the outlook favours above normal rainfall

Nadzab & Southern Region: the outlook offers favours below normal rainfall for Nadzab, Misima and Port Moresby whilst Daru favours normal rainfall.

Stakeholder Engagement July 2018:

Country	Date	Stakeholder	Total Number of Participants	Number of male	Number of female
PNG	July 16 th to 20 th	Disaster Managers (Oxfam, IOM, DFAT (Australian High Commission) Department of	24	15	9
		Agriculture & Livestock, PNG Red Cross, National Broadcasting Commission, National Disaster Centre, University of Papua New Guinea, Pacific Adventist University, Geo-hazards Management Division, United Nations Development Fund, The National Newspaper and PNG Loop News/TV Wan.	Total with NWS & team = 33	18	15

The Humanitarian Partnership Workshop for the PNG National Weather Service was conducted in July 16th to 20th July. The first three days was a technical training for the climate officers using SCOPIC and also drafting the PNG Early Action Rainfall Watch.

PNG NWS was able to produce a monthly Early Action Rainfall Watch that met the needs of the humanitarian sector in the last two days of the workshop with consultation from our stakeholders.