

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 130

Country: Papua New Guinea

**TABLE 1: Monthly Rainfall**

Station (include data period)	Apr-2018	May-2018	Jun-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Momase Region							
Madang (1944-2018)	nr	nr	211.4	158.0	225.4	205.2	37/68
Nadzab (1973-2018)	nr	90.0	71.2	63.7	120.5	81.8	19/45
Wewak (1894-2018)	nr	263.6	257.0	173.2	228.2	204.4	52/63
Vanimo (1918-2018)	nr	223.8	189.0	168.4	245.8	202.4	28/64
Highlands Region							
Goroka (1948-2018)	nr	91.0	86.6	44.6	76.0	56.0	43/54
New Guinea Islands Region							
Momote (1949-2018)	nr	137.0	334.8	231.0	314.0	281.0	49/64
Kavieng (1916-2018)	nr	252.6	163.8	192.0	274.7	216.1	17/88
Southern Region							
Misima (1917-2018)	383.4	357.8	124.8	125.0	276.1	201.8	31/92
Port Moresby (1875-2018)	nr	61.6	1.4	10.9	43.1	22.6	12/120

**TABLE 2: Three-month Rainfall for April to June 2018**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 Jan-Feb 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Momase Region											
Madang (1944-2018)			894.8	1073.7	1007.2		24	29	47	8	
Nadzab (1973-2018)			270.7	350.3	322.3		32	37	31	-3	
Wewak (1894-2018)			570.1	672.8	642.5		29	37	34	-1	
Vanimo (1918-2018)			576.0	723.6	650.4		34	33	33	-2	
Highlands Region											
Goroka (1948-2018)			331.0	426.7	391.5		32	35	33	-3	
New Guinea Islands Region											
Momote (1949-2018)			711.0	897.3	812.5		30	38	32	-1	
Kavieng (1917-2018)			688.6	898.0	784.6		38	35	27	0	
Southern Region											
Misima (1917-2018)	866.0	Normal	614.6	915.3	764.5	56/91	19	29	52	19	Near-consistent
Port Moresby (1875-2018)			170.5	267.6	207.8		20	34	46	11	

\* Verification data should be sourced from Table 3 of OCOF #126.

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2018**

Predictor and Period used: NINO3.4 for May to June 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Momase Region</b>						
Madang (1944-2018)	61	471.9	39		28	78
Nadzab (1973-2018)	52	335.8	48		7	55
Wewak (1894-2018)	57	573.0	43		26	67
Vanimo (1918-2018)	51	521.4	49		-1	49
<b>Highlands Region</b>						
Goroka (1948-2018)	49	338.9	51		-2	60
<b>New Guinea Islands Region</b>						
Momote (1949-2018)	49	758.0	51		-1	59
Kavieng (1916-2018)	49	627.1	51		-1	49
<b>Southern Region</b>						
Misima (1917-2018)	64	625.8	36		31	72
Port Moresby (1875-2018)	50	76.3	50		-2	58

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Momase Region</b>							
Madang (1944-2018)	38	392.4	39	607.1	23	26	52
Nadzab (1973-2018)	34	267.8	33	391.9	33	2	26
Wewak (1894-2018)	35	500.1	41	655.0	24	25	51
Vanimo (1918-2018)	34	486.3	34	554.9	32	-2	29
<b>Highlands Region</b>							
Goroka (1948-2018)	33	276.0	33	382.6	34	-3	31
<b>New Guinea Islands Region</b>							
Momote (1949-2018)	33	648.0	33	901.7	34	-1	21
Kavieng (1916-2018)	33	508.9	34	716.0	33	-2	26
<b>Southern Region</b>							
Misima (1917-2018)	40	456.0	43	756.0	17	26	51
Port Moresby (1875-2018)	35	58.9	31	98.7	34	-1	33

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2018**

Station	<b>Below Normal (prob)</b>	<b>33%ile Rainfall (mm)</b>	<b>Normal (prob)</b>	<b>67%ile Rainfall (mm)</b>	<b>Above Normal (prob)</b>
<i><b>Momase Region</b></i>					
Madang	28	311.0	<b>42</b>	568.0	30
Nadzab	33	199.0	34	342.0	33
Wewak	18	454.0	27	627.0	<b>55</b>
<i><b>New Guinea Islands Region</b></i>					
Momote	24	650.0	18	857.0	<b>58</b>
Kavieng	27	489.0	9	659.0	<b>64</b>
<i><b>Southern Region</b></i>					
Misima	<b>67</b>	226.0	18	593.0	15
Port Moresby	<b>58</b>	36.0	9	81.0	33
Daru	5	63.0	<b>80</b>	134.0	15

## Summary Statements

### Rainfall for June 2018:

Below normal was received at the Southern Region and Kavieng station whilst above normal was received at Momote, Goroka and Wewak. Rest of Momase Region received normal rainfall.

### Accumulated rainfall for April to June 2018, including outlook verification:

Misima received normal rainfall and the forecast was near consistent.

Three months total was not available for the other stations.

### Outlooks for August to October 2018:

#### 1. SCOPIC:

For Misima & Wewak, the outlook shows normal as the most likely outcome with below normal the next most likely, above normal rainfall is the least likely. At Madang there is a near-equal likelihood of normal or below-normal rainfall for the coming three months.

All the remaining monitoring 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 skill.

#### 2. POAMA:

Daru & Madang: POAMA favours normal rainfall.

Southern Region: the outlook favours below-normal rainfall.

Wewak & NGI Region: the outlook favours above-normal rainfall

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

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

Very Low:  $X < 0.0$

Low:  $0 \leq X < 5$

Moderate  $5 \leq X < 10$

Good:  $10 \leq X < 15$

High:  $15 \leq X < 25$

Very High:  $25 \leq X < 35$  Exceptional:  $X \geq 35$