

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 95

Country Name: Papua New Guinea

TABLE 1: Monthly Rainfall

Station (include data period)	July 2015						
	May 2015 Total	June 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Momase Region							
Madang	486.2	-	-				
Nadzab	103.2	160.0	24.6	67.3	132.1	115.2	3/41*
Wewak	113.4	243.6	248.2	159.5	211.7	180.4	45/60
Vanimo	179.4	182.8	-				
NGI Region							
Momote	236.4	282.2	82.8	312.1	407.5	350.1	1/62*
Kavieng	242.0	-	-				
Southern							
Misima	326.2	15.6	84.8	87.0	190.7	133.9	29/90
Port Moresby	157.2	4.0	45.4	5.3	25.4	13.2	96/115

TABLE 2: Three-monthly Rainfall May to July 2015

[Please note that the data used in this verification should be sourced from table 3 of OCOF #91]

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent, Inconsistent?)
Momase Region							
Madang							
Nadzab	287.8	264.4	378.9	292.6	19/40	33/36/31 (-3.6)	Consistent
Wewak	605.2	547.1	686.3	631.2	26/60	43/33/24 (7.1)	Near-consistent
Vanimo							
NGI Region							
Momote	601.4	793.7	1018.6	885.0	7/61	27/41/32 (-1.6)	Near-consistent
Kavieng							
Southern							
Misima	426.6	496.0	857.0	626.8	21/88	58/36/6 (36.5)	Consistent
Port Moresby	206.7	80.7	147.6	118.1	83/103	41/36/23 (5.5)	Inconsistent

Period: *below normal/normal/above normal

* Forecast is consistent when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).

Forecast is near-consistent when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).

Forecast is inconsistent when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

Predictors and Period used for May to July 2015 Outlooks (refer to OCOF #91):

TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2015

Predictors: NINO3.4 SST Anomalies Period: June-July 2015

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang						
Nadzab	78	278.5	22		7	60.5
Wewak	82	591.6	18		9.7	59.6
Vanimo						
NGI Region						
Momote	43	725.0	57		-1.2	55
Kavieng						
Southern						
Misima	94	686.4	6		23.2	72.6
Port Moresby	91	109.6	9		16.1	68.3

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Momase Region							
Madang							
Nadzab	70	232.8	22	348.3	8	12.4	44.7
Wewak	86	530.0	10	666.1	4	16.5	49.1
Vanimo							
NGI Region							
Momote	37	657.0	38	792.2	25	-1.8	16.7
Kavieng							
Southern							
Misima	80	505.0	13	850.0	7	13.5	41.9
Port Moresby	67	90.5	30	155.0	3	15.5	46.7

TABLE 4: Seasonal Climate Outlooks using POAMA2 for September to November 2015

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Momase Region							
Madang							
Nadzab	76	196	18	297	6		
Wewak	30	524	12	515	58		
Vanimo							
NGI Region							
Momote	73	632	22	783	5		
Kavieng							
Southern							
Misima	36	340	40	699	24		
Port Moresby	42	54	36	125	21		

Summary Statements

Rainfall for July 2015:

Below Normal rainfall received for the three regions with Nadzab recorded 3rd lowest rainfall and Momote recorded lowest. Wewak and Port Moresby received Above Normal rainfall.

Accumulated rainfall for May to July 2015, including outlook verification:

Above to Below Normal rainfall was recorded in Southern and Momase regions whilst Normal rainfall was received in Nadzab station. Forecast was consistent with skills ranging very low to moderate skills for Momase region and exceptional skills for Misima however; inconsistent for NGI region with very low skills and Port Moresby with moderate skills.

Outlooks for September to November 2015:

1. SCOPIC:

The SCOPIC seasonal rainfall outlook for September to November 2015 shows:

- For both the Southern and Momase region below normal rainfall is favoured with normal the next most likely.
- There is a near-equal likelihood of below normal to normal at Momote in the New Guinea Islands region.
- Outlook skill is good to high skills for these two regions and very low for Momote.

2. POAMA:

The Poama model favours Below Normal rainfall for Nadzab, Momote and Port Moresby. Normal for Misima and Above Normal rainfall for Wewak.

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: $X \geq 35$