

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 64

Country Name: **PAPUA NEW GUINEA**

TABLE 1: Monthly Rainfall

Station (include data period)	December						
	October Total	November Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Momase Region</i>							
Madang (1944-2012)	150.6	60.4	474.0 AN	340.9	435.3	382.0	49/65
Nadzab(1973-2012)	98.6	60.4	64.0 BN	112.0	188.6	154.0	6/38
Wewak (1894-2012)	225.6	235.0	88.0 BN	122.8	179.7	145.2	8/57
Vanimo (1918-2012)	86.4	279.0	155.0 BN	180.2	281.6	233.0	14/59
<i>New Guinea Islands</i>							
Momote (1949-2012)							
Kavieng (1916-2012)	253.4	231.4	236.0 BN	255.0	337.0	306.2	23/85
<i>Southern Region</i>							
Misima (1917-2012)	407.0	39.4	139.4 BN	163.7	259.7	217.2	25/87
Port Moresby (1875-2012)	169.0	3.6	18.2 BN	77.5	152.2	116.1	10/122

TABLE 2: Three-monthly Rainfall

October to December 2012

Predictors: SSTa's 1 & 9 – Period: *June to August 2012*

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecasted probs.* (include LEPS)	Verification (Consistent, Near-consistent, Inconsistent?)
<i>Momase Region</i>							
Madang (1944-2012)	685.0	869.4	1101.7	997.8	6/64	41/ 47 /12 (18.6)	Near Consistent
Nadzab (1973-2012)	223.0	310.6	373.7	336.9	6/37	48 /9/43 (4.7)	Consistent
Wewak (1894-2012)	548.6	536.2	647.4	574.5	21/56	45 /32/23 (2.8)	Near consistent
Vanimo (1918-2012)	520.4	559.9	697.9	611.6	16/52	63 /25/12 (21.2)	Consistent
<i>New Guinea Islands</i>							
Momote (1949-2012)							
Kavieng (1916-2012)	720.8	704.0	868	780.3	34/83	53 /30/17 (3.5)	Near consistent
<i>Southern Region</i>							
Misima (1917-2012)	585.8	564.3	787.1	654.5	46/84	35/22/ 43 (22.9)	Near consistent
PortMoresby (1875-2012)	190.8	176.7	268.4	215.5	46/111	37/ 46 /17 (19.2)	Consistent

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).

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2013

Predictors: [SSTa's 1 & 9](#) - Period: [October to December 2012](#)

Period: Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang (1944-2012)	54	1036.8	46		-0.9	58.1
Nadzab(1973-2012)	35	454.0	65		-1.9	48.6
Wewak (1894-2012)	45	484.4	55		-3.2	33.9
Vanimo (1918-2012)	49	789.6	51		-2.6	40.8
New Guinea Islands						
Momote (1949-2012)						
Kavieng (1916-2012)	42	879.6	58		3.2	51.8
Southern Region						
Misima(1917-2012)	60	846.1	40		12.6	62.7
PortMoresby(1875-2012)	66	513.8	34		6.2	57.1

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	Leps (%)	Hit-rate (%)
Momase Region							
Madang (1944-2012)	35	943.1	44	1142.1	21	1.9	38.7
Nadzab(1973-2012)	34	357.0	31	492.2	35	-4.2	29.7
Wewak (1894-2012)	26	433.9	18	525.3	56	1.6	44.6
Vanimo (1918-2012)	28	676.7	23	906.9	49	1.7	26.5
New Guinea Islands							
Momote (1949-2012)							
Kavieng (1916-2012)	32	791.2	16	976.1	52	4.2	39.9
Southern Region							
Misima(1917-2012)	62	757.3	30	959.0	8	27.3	64.4
PortMoresby(1875-2012)	37	433.1	35	590.1	28	2.8	33.3

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Momase Region					
Wewak	40	428.0	26.67	575.0	33.33
Southern Region					
PortMoresby	33.33	465.0	36.67	593.0	30.0

Summary Statement:

Rainfall for December 2012:

For the country was Below Normal except for Madang receiving Above Normal rainfall.

Accumulated rainfall for October to December 2012, including outlook verification:

For the Momase & Southern region, the forecast was Near Consistent to Consistent and Kavieng in the NGI region was Near Consistent.

Outlooks for December 2012-February 2013:

1. SCOPIC:

It favours Normal to Above Normal rainfall for Momase region except for Nadzab with climatology, with very low skills. Rainfall for Kavieng was Above Normal (Nil record for Momote rainfall in November) and Below Normal rainfall for the Southern region.

2. POAMA:

It favours Below Normal rainfall for Wewak & Normal rainfall for Port Moresby.

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: $X \geq 35$