

Pacific Islands - Online Climate Outlook Forum No 67

**Country:** PAPUA NEW GUINEA

**TABLE 1: Monthly Rainfall**

Station (include data period)			March				
	January Total	February Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Momase Region</i>							
Madang (1944-2013)	418.6	265.6	458.8AN	292.2	398.2	336.9	58/65
Nadzab(1973-2013)	255.2	162.4	139.2BN	142.0	214.0	158.8	11/38
Wewak (1894-2013)	159.2	121.6	202.0AN	132.3	186.0	162.7	44/57
Vanimo (1918-2013)	624.8	308.4	642.8AN	214.7	331.7	269.4	59/61
<i>New Guinea Islands</i>							
Momote (1949-2013)	466.2	231.0	323.6N	264.2	333.5	293.3	39/63
Kavieng (1916-2013)	368.6	296.8	295.0N	252.1	368.3	312.8	34/81
<i>Southern Region</i>							
Misima (1917-2013)	608.2	139.6	296.4N	210.1	320.0	253.8	55/88
PortMoresby(1875-2013)	307.4	117.0	303.0AN	136.9	239.9	180.5	105/125

**TABLE 2: Three-monthly Rainfall (January - March )**

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 (1944-2013)	1,143.0AN	894.8	1,065.0	959.6	49/65	24/45/31(9.9)	Near Consistent
Nadzab (1973-2013)	556.8AN	427.9	519.3	467.0	27/37	26/38/36(1.5)	Near Consistent
Wewak (1894-2013)	482.8AN	371.6	453.0	428.3	44/57	47/19/34(2.3)	Inconsistent
Vanimo (1918-2013)	1,576.0AN	721.3	964.0	876.4	58/58	34/24/42(1.1)	Consistent
<i>New Guinea Islands</i>							
Momote (1949-2013)	1,020.8AN	751.3	880.8	805.4	52/63	25/18/57(3.7)	Consistent
Kavieng (1916-2013)	960.4N	838.8	1,014.0	927.1	44/79	31/25/44(1.7)	Near Consistent
<i>Southern Region</i>							
Misima (1917-	1,044.2AN	715.2	931.3	771.2	68/84	40/43/17(11.2)	Near Consistent

2013)							
PortMoresby (1875-2013)	727.4AN	503.0	635.1	567.4	104/125	23/49/28(-0.3)	Near Consistent

Predictors: SSTa's 1 & 9 – Period: September-November 2012

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 for May- July 2013**

Predictors: SSTa's 1 & 9 - Period: January 2013-March 2013

Period: Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
<b>Momase Region</b>						
Madang (1944-2013)	49	744.8	51		8.9	61.3
Nadzab(1973-2013)	55	286.7	45		-2.3	52.8
Wewak (1894-2013)	45	631.2	55		6.7	57.9
Vanimo (1918-2013)	45	608.4	55		-1.5	53.2
<b>New Guinea Islands</b>						
Momote (1949-2013)	48	871.9	52		-2.0	51.6
Kavieng (1916-2013)	46	725.2	54		0.6	54.5
<b>Southern Region</b>						
Misima(1917-2013)	69	626.8	31		33.1	70.0
PortMoresby(1875-2013)	50	118.3	50		0.1	45.3

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	Leps (%)	Hit-rate (%)
<b>Momase Region</b>							
Madang (1944-2013)	25	638.3	45	825.4	30	19.1	56.5
Nadzab(1973-2013)	36	257.3	32	377.7	32	-4.0	27.8
Wewak (1894-2013)	24	554.1	39	677.3	37	11.1	43.9
Vanimo (1918-2013)	27	571.9	35	685.5	38	-2.3	25.5
<b>New Guinea Islands</b>							
Momote (1949-2013)	25	791.8	34	1,015.7	41	3.7	42.2
Kavieng (1916-2013)	37	630.4	33	812.7	30	2.3	36.4
<b>Southern Region</b>							
Misima(1917-2013)	41	500.0	47	873.0	12	35.7	46.7
PortMoresby(1875-2013)	31	83.2	38	149.7	31	2.3	35.9

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for May - July 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
<b>Momase Region</b>					

Wewak					
<b>Southern Region</b>					
PortMoresby					

**Poama readings not available.**

[Summary Statement:](#)

**Rainfall for March:**

Rainfall across the country for the month of March was normal to Above Normal except Nadzab receiving Below Normal rainfall.

**Accumulated rainfall January to March, including outlook verification**

Above Normal rainfall received across the country except Kavieng in NGI received Normal rainfall. The forecasts were near consistent to consistent except for Wewak in Momase Region which was Inconsistent.

**Outlook for May - July :**

**1. SCOPIC:**

**Momase Region:** Favours Normal rainfall, confidence is good to high.

**New Guinea Islands:** Favours Below Normal to Above Normal and confidence is low.

**Southern region:** Favours Normal rainfall with confidence low to exceptional.

**2. POAMA Model.**

**Poama readings not available.**

**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:  $X \geq 35$