

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
Momase Region							
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
New Guinea Islands							
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
Southern Region							
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?)
Momase Region							
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
New Guinea Islands							
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
Southern Region							
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 (%)
Momase Region						
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
New Guinea Islands						
Momote (1949-2013)	48	871.9	52		-2.0	51.6
Kavieng (1916-2013)	46	725.2	54		0.6	54.5
Southern Region						
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 (%)
Momase Region							
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
New Guinea Islands							
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
Southern Region							
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)
Momase Region					

Wewak					
Southern Region					
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: $X \geq 35$