

Pacific Islands - Online Climate Outlook Forum No 75

Country: PAPUA NEW GUINEA

TABLE 1: Monthly Rainfall

Station (include data period)	November 2013						
	September Total	October Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Momase Region							
Madang (1944-2013)	13.6	313.2	166.0	275.5	371.9	328.2	5/66
Nadzab(1973-2013)	223.2	150.0	80.4	77.9	108.6	85.6	15/40
Wewak (1894-2013)	42.8	216.6	228.2	152.7	236.1	188.2	35/57
Vanimo (1918-2013)	239.2	206.4	223.8	160.5	239.1	194.7	36/57
New Guinea Islands							
Momote (1949-2013)	530.4	259.6	328.2	196.8	286.2	242.7	53/65
Kavieng (1916-2013)	169.2	371.0	165.4	195.4	269.6	225.4	23/86
Southern Region							
Misima (1917-2013)	20.4	190.8	124.2	142.6	252.0	195.7	26/89
PortMoresby(1875-2013)	44.4	25.4	120.6	24.5	74.9	40.4	97/117

TABLE 2: Three-monthly Rainfall (September-November 2013)

Predictors: SSTa's 1 & 9—Period: May -July 2013

[Please note that the data used in this verification should be sourced from table 3 of OCOF #71]

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)	492.8	640.2	847.0	740.5	14/65	11/43/46 (19.0)	Inconsistent
Nadzab (1973-2013)	453.6	227.6	339.8	271.8	34/37	9/43/48 (9.8)	Consistent
Wewak (1894-2013)	487.6	532.8	648.6	594.4	12/57	14/45/41 (10.2)	Near-Consistent
Vanimo (1918-2013)	669.4	489.2	580.6	532.4	43/53	26/26/48 (1.1)	Consistent
New Guinea Islands							
Momote (1949-2013)	1118.2	633.8	777.9	706.7	62/65	31/34/35 (-4.2)	Consistent
Kavieng (1916-2013)	705.6	553.8	763.4	653.2	50/83	42/19/39 (0.1)	Near-Consistent
Southern Region							
Misima (1917-2013)	335.4	563.4	868.3	723.3	19/88	6/32/62 (24.9)	Inconsistent
Port Moresby (1875-2013)	190.4	85.0	147.4	109.0	84/110	9/24/67 (18.1)	Consistent

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).

TABLE 3: Seasonal Climate Outlooks for January to March 2014

Predictors: [SSTa's 1 & 9-Period: September – November 2013](#)

Period:Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang (1944-2013)	69	967.2	31		19.9	66.7
Nadzab(1973-2013)	44	469.0	56		-2.5	45.9
Wewak (1894-2013)	33	428.8	67		2.7	59.6
Vanimo (1918-2013)	42	878.7	58		3.1	58.0
New Guinea Islands						
Momote (1949-2013)	56	807.8	44		2.4	54.0
Kavieng (1916-2013)	69	936.4	31		5.7	56.1
Southern Region						
Misima(1917-2013)	49	778.3	51		12.1	63.3
PortMoresby(1875-2013)	45	570.0	55		3.7	54.7

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)	37	899.3	38	1077.5	25	9.9	30.2
Nadzab(1973-2013)	33	434.0	38	525.8	29	1.5	27.0
Wewak (1894-2013)	36	374.8	18	454.6	46	2.3	50.9
Vanimo (1918-2013)	35	723.4	24	1003.2	41	1.1	42.0
New Guinea Islands							
Momote (1949-2013)	27	751.7	22	894.6	51	3.7	34.9
Kavieng (1916-2013)	40	841.0	23	1011.8	37	1.7	40.4
Southern Region							
Misima(1917-2013)	25	715.4	38	933.6	37	11.2	45.0
PortMoresby(1875-2013)	16	505.3	48	635.5	36	-0.3	31.3

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January –March 2014

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Momase Region					
Madang	40	910	27	1082	33
Wewak	20	368	47	441	33
New Guinea Islands					
Momote	27	724	30	837	43
Kavieng	30	853	43	987	27
Southern Region					
Misima	33	715	37	893	30
PortMoresby	33	520	27	651	40

Summary Statements:

Rainfall for November 2013:

Below Normal to **Normal** received across the country whilst Momote and Port Moresby received **Above Normal** rainfall.

Accumulated rainfall for September–November 2013, including outlook verification

Below Normal to **Above Normal** rainfall was received across the country except Kavieng received **Normal** rainfall.

The forecasts were **Consistent** to **Near-Consistent** across the country whilst Madang and Misima being **Inconsistent**. The skills range from very low to high.

Outlook for January - March 2014:

1. SCOPIC:

The model favours **Normal** to **Above Normal** across the country with very low to good skills whilst **Below Normal** for Kavieng with low skill.

2. POAMA Model

The model favours **Normal** to **Above Normal** across the country whilst **Below Normal** for Madang.

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: $X \geq 35$