

Pacific Islands - Online Climate Outlook Forum No 72

Country: PAPUA NEW GUINEA

TABLE 1: Monthly Rainfall

Station (include data period)	August 2013						
	June 2013 Total	July 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Momase Region							
Madang (1944-2013)	256.6	198.2	144.6	63.4	140.8	98.3	46/65
Nadzab(1973-2013)	100.0	134.6	82.6	80.1	171.6	111.0	14/40
Wewak (1894-2013)	280.6	377.4	161.2	116.3	214.3	146.2	30/58
Vanimo (1918-2013)	267.8	307.6	166.0	130.4	193.3	162.9	31/58
New Guinea Islands							
Momote (1949-2013)	331.4	398.8	632.2	214.2	333.7	273.6	62/64
Kavieng (1916-2013)	315.8	258.6	287.6	169.2	254.7	205.7	67/83
Southern Region							
Misima (1917-2013)	116.2	223.8	32.4	85.9	191.8	140.8	16/88
PortMoresby(1875-2013)	51.8	4.2	4.8	6.9	23.6	13.3	30/116

TABLE 2: Three-monthly Rainfall (June - August 2013)

Predictors: SSTa's 1 & 9—Period: February – April 2013

[Please note that the data used in this verification should be sourced from table 3 of OCOF #68]

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)	599.4	402.4	572.4	469.0	49/65	29/44/27 (30)	Near Consistent
Nadzab (1973-2013)	317.2	294.8	404.6	329.0	17/38	33/30/37 (-5.2)	Near Consistent
Wewak (1894-2013)	819.2	467.1	614.3	537.4	54/58	28/39/33(14.3)	Near Consistent
Vanimo (1918-2013)	741.4	506.8	632.0	556.0	50/56	26/33/41 (1)	Consistent
New Guinea Islands							
Momote (1949-2013)	1362.4	742.3	1048.0	943.6	60/64	21/43/36(5.9)	Near Consistent
Kavieng (1916-2013)	862.0	557.5	792.7	690.7	67/82	29/34/37(-0.3)	Consistent
Southern Region							
Misima (1917-2013)	372.4	367.5	699.8	522.6	31/85	31/50/19(31.3)	Consistent
Port Moresby (1875-2013)	60.8	55.1	103.1	81.9	39/103	30/41/29(8.5)	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 October to December 2013

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

Period:Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang (1944-2013)	47	981.6	53		5.5	63.5
Nadzab(1973-2013)	45	336.8	55		4.9	51.4
Wewak (1894-2013)	31	573.8	69		5	53.6
Vanimo (1918-2013)	39	611.4	61		18.4	67.4
NewGuinea Islands						
Momote (1949-2013)	61	773	39		0.1	53.1
Kavieng (1916-2013)	73	773.2	27		9.8	66.7
Southern Region						
Misima(1917-2013)	22	650	78		12.4	62.3
PortMoresby(1875-2013)	31	214.2	69		16	65.6

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)	11	865.6	60	1100.2	29	18.6	57.1
Nadzab(1973-2013)	19	305.4	37	369	44	4.7	48.6
Wewak (1894-2013)	27	537.6	27	645.8	46	2.8	30.4
Vanimo (1918-2013)	16	555	30	686.2	54	24.3	45.7
NewGuinea Islands							
Momote (1949-2013)	30	688	53	866.2	17	3.2	46.9
Kavieng (1916-2013)	50	705.4	27	867.7	23	3.5	46.7
Southern Region							
Misima(1917-2013)	2	565.6	33	784.3	65	29	57.4
PortMoresby(1875-2013)	13	176.8	26	268.3	61	19.2	57.8

TABLE 4: Seasonal Climate Outlooks using POAMA2 for October –December 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Momase Region					
Madang	33	816	30	1031	37
Wewak	40	505	23	610	37
NewGuinea Islands					
Momote	7	689	23	827	70
Kavieng	10	672	37	854	53
Southern Region					
Misima	30	506	50	649	20
PortMoresby	27	119	40	245	33

Summary Statements:

Rainfall for August 2013:

Normal to Above Normal rainfall for Momase and NGI region whilst Below Normal rainfall received for Southern region.

Accumulated rainfall for June–August 2013, including outlook verification

During these three months rainfall received was Normal to Above Normal across the country.

The forecasts was Near-Consistent to Consistent. The skills ranged from very low to very high.

Outlook for October – December 2013:

1. SCOPIC:

The model favours **Normal** to **Above Normal** rainfall for the three regions with moderate to high skills, except Kavieng, favoured for **Below Normal** rainfall with low skills.

2. POAMA Model

The model favours **Below Normal** for Wewak, **Normal** for Misima and Port Moresby and **Above Normal** for Madang, Momote and Kavieng.

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: $X \geq 35$