

Pacific Islands - Online Climate Outlook Forum No 77

Country: PAPUA NEW GUINEA

TABLE 1: Monthly Rainfall

Station (include data period)	January 2014						
	November Total	December Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Momase Region							
Madang (1944-2013)	166.0	509.4	360.8	281.3	382.7	344.2	39/66
Nadzab(1973-2013)	80.4	217.6	125.0	134.0	182.5	153.1	13/39
Wewak (1894-2013)	228.2	126.8	168.2	101.8	157.4	132.6	44/59
Vanimo (1918-2013)	223.8	403.2	287.6	203.4	348.3	275.3	34/63
New Guinea Islands							
Momote (1949-2013)	328.2	347.6	344.0	231.1	317.9	267.2	51/64
Kavieng (1916-2013)	165.4	276.4	441.8	270.3	360.7	322.2	69/84
Southern Region							
Misima (1917-2013)	124.2	244.4	303.4	197.0	327.2	275.0	51/86
PortMoresby(1875-2013)	120.6	133.6	263.0	131.2	216.3	174.2	105/126

TABLE 2: Three-monthly Rainfall (November 2013-January 2014)

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

[Please note that the data used in this verification should be sourced from table 3 of OCOF #73]

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)	1036.2	967.2	1,144.2	1,050.3	31/66	43/30/27 (-1.1)	Near-Consistent
Nadzab (1973-2013)	423.0	350.9	435.9	400.5	25/38	41/23/36 (-4.9)	Near-Consistent
Wewak (1894-2013)	523.2	435.9	551.0	480.2	36/57	24/38/38 (5.8)	Near-Consistent
Vanimo (1918-2013)	914.6	642.2	821.7	731.3	44/55	19/44/37 (-1.8)	Near-Consistent
New Guinea Islands							
Momote (1949-2013)	1019.8	730.8	877.1	818.4	55/64	42/34/24 (-1.2)	Inconsistent
Kavieng (1916-2013)	883.6	770.0	949.7	840.5	46/82	45/21/34 (-1.6)	Near-Consistent
Southern Region							
Misima (1917-2013)	672.0	603.2	782.0	707.3	36/83	4/34/62 (17.6)	Near-Consistent
Port Moresby (1875-2013)	517.2	301.7	422.6	365.0	100/115	16/32/52 (6.6)	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 March to May 2014

Predictors: [SSTa's 1 & 9-Period: November 2013 – January 2014](#)

Period:Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang (1944-2013)	75	1151.9	25		2.4	55.6
Nadzab(1973-2013)	53	387.0	47		-5.6	18.9
Wewak (1894-2013)	44	612.6	56		-3.5	47.4
Vanimo (1918-2013)	27	695.8	73		2.3	53.1
New Guinea Islands						
Momote (1949-2013)	49	823.0	51		-3.2	23.8
Kavieng (1916-2013)	52	832.6	48		-2.8	42.9
Southern Region						
Misima(1917-2013)	32	784.4	68		28.3	67.2
PortMoresby(1875-2013)	29	381.8	71		2.7	57.8

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)	39	1001.9	36	1209.6	25	-2.7	15.9
Nadzab(1973-2013)	42	354.2	41	432.4	17	-1.3	27.0
Wewak (1894-2013)	22	522.0	36	657.1	42	-2.2	42.1
Vanimo (1918-2013)	16	583.4	34	840.2	50	2.8	40.8
New Guinea Islands							
Momote (1949-2013)	20	736.2	30	894.3	50	0.0	25.4
Kavieng (1916-2013)	38	756.1	32	947.5	30	-0.7	35.7
Southern Region							
Misima(1917-2013)	32	681.0	33	992.0	35	21.1	44.3
PortMoresby(1875-2013)	16	306.6	46	450.5	38	1.1	39.1

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2014

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Momase Region					
Madang	18	1002	49	1201	33
Wewak	18	508	46	630	36
New Guinea Islands					
Momote	42	698	25	854	33
Kavieng	33	769	40	998	27
Southern Region					
Misima	15	665	12	941	73
PortMoresby	24	327	33	498	43

Summary Statements:

Rainfall for January 2014:

Normal to *Above Normal* across the country except Nadzab received *Below Normal*.

Accumulated rainfall for November 2013–January 2014, including outlook verification

Normal to *Above Normal* rainfall was received across the country.

The forecasts were *Near-Consistent* across the country except Port Moresby was *Consistent* whilst Momote being *Inconsistent*. The skills ranged from very low to high.

Outlook for March - May 2014:

1. SCOPIC:

The SCOPIC Model favours *Below Normal* to *Above Normal* across the country whilst *Normal* for Port Moresby. The skills ranged from very low to high.

2. POAMA:

The POAMA Model favours *Normal* to *Above Normal* across the country whilst *Below Normal* for Momote.

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: $X \geq 35$