

Pacific Islands - Online Climate Outlook Forum No 76

Country: PAPUA NEW GUINEA

TABLE 1: Monthly Rainfall

Station (include data period)	December 2013						
	October Total	November Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Momase Region							
Madang (1944-2013)	313.2	166.0	509.4	341.5	439.0	382.0	53/66
Nadzab(1973-2013)	150.0	80.4	217.6	109.1	187.7	151.0	30/39
Wewak (1894-2013)	216.6	228.2	126.8	121.1	179.5	142.8	22/58
Vanimo (1918-2013)	206.4	223.8	403.2	179.4	280.2	228.6	54/60
New Guinea Islands							
Momote (1949-2013)	259.6	328.2	347.6	247.4	322.8	282.4	49/65
Kavieng (1916-2013)	371.0	165.4	276.4	251.5	336.3	301.8	39/86
Southern Region							
Misima (1917-2013)	190.8	124.2	244.4	160.7	258.3	215.0	54/88
PortMoresby(1875-2013)	25.4	120.6	133.6	75.6	152.1	116.0	73/123

TABLE 2: Three-monthly Rainfall (October-December 2013)

Predictors: *SSTa's 1 & 9*—Period: June - August 2013

[Please note that the data used in this verification should be sourced from table 3 of OCOF #72]

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)	988.6	865.6	1100.2	981.6	33/65	11/60/29 (18.6)	Consistent
Nadzab (1973-2013)	448.0	305.4	369.0	336.8	32/38	19/37/44 (4.7)	Consistent
Wewak (1894-2013)	571.6	537.6	645.8	573.8	27/57	27/27/46 (2.8)	Near Consistent
Vanimo (1918-2013)	833.4	555.0	686.2	611.4	48/53	16/30/54 (24.3)	Consistent
New Guinea Islands							
Momote (1949-2013)	935.4	688.0	866.2	773.0	55/65	30/53/17 (3.2)	Near Consistent
Kavieng (1916-2013)	812.8	705.4	867.7	773.2	49/84	50/27/23 (3.5)	Near Consistent
Southern Region							
Misima (1917-2013)	559.4	565.6	784.3	650.0	28/86	2/33/65 (29.0)	Inconsistent
Port Moresby (1875-2013)	279.6	176.8	268.3	214.2	79/112	13/26/61 (19.2)	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 February to April 2014

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

Period:Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang (1944-2013)	60	1046.8	40		-0.7	58.7
Nadzab(1973-2013)	26	457.1	74		0.0	60.5
Wewak (1894-2013)	42	486.4	58		-2.8	40.4
Vanimo (1918-2013)	51	812.1	49		-2.5	46.0
New Guinea Islands						
Momote (1949-2013)	35	801.2	65		-0.3	54.0
Kavieng (1916-2013)	47	881.7	53		3.8	52.6
Southern Region						
Misima(1917-2013)	47	844.0	53		15.4	65.0
PortMoresby(1875-2013)	58	517.0	42		5.3	56.3

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)	42	946.6	43	1149.4	15	1.0	41.3
Nadzab(1973-2013)	32	358.0	28	493.7	40	-4.4	28.9
Wewak (1894-2013)	17	436.1	19	530.8	64	2.4	42.1
Vanimo (1918-2013)	26	677.8	22	911.8	52	1.7	28.0
New Guinea Islands							
Momote (1949-2013)	23	756.9	25	926.3	52	-0.9	33.3
Kavieng (1916-2013)	42	793.7	9	973.6	49	4.0	36.8
Southern Region							
Misima(1917-2013)	48	759.2	33	959.0	19	22.2	65.0
PortMoresby(1875-2013)	24	433.7	37	593.1	39	2.4	29.7

TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2014

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Momase Region					
Madang	42	904	22	1154	36
Wewak	42	428	25	575	33
New Guinea Islands					
Momote	33	720	37	844	30
Kavieng	36	774	37	989	27
Southern Region					
Misima	39	708	49	930	12
PortMoresby	42	465	25	593	33

Summary Statements:

Rainfall for December 2013:

Normal to *Above Normal* received across the country.

Accumulated rainfall for October-December 2013, including outlook verification

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

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

Outlook for February - April 2014:

1. SCOPIC:

The SCOPIC Model favours *Above Normal* across the country with very low to low skills whilst *Normal* for Madang with low skill and *Below Normal* for Misima with high skill.

2. POAMA:

The POAMA Model favours *Below Normal* to *Normal* across the country.

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: $X \geq 35$