Pacific Islands - Online Climate Outlook Forum No 87

Country Name: PAPUA NEW GUINEA

TABLE 1: Monthly Rainfall

Station (include data period)			November 2014				
	September Total	October Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Momase Region							
Madang (1944-2014)	75.4	54.8	244.2	273.9	370.9	325.7	17/67
Nadzab(1973-2014)	151.8	104.0	174.0	78.0	106.8	84.9	39/41
Wewak (1894-2014)							
Vanimo (1918-2014)	438.2	188.2	133.6	161.0	237.3	199.8	9/58
New Guinea Islands							
Momote (1949-2014)	429.2	229.6	183.0	197.4	287.1	225.1	16/66
Kavieng (1916-2014)	304.0	331.8	387.4	193.1	269.0	245.8	77/87
Southern Region							
Misima (1917-2014)	271.8	124.6	85.4	137.9	251.0	192.4	13/90
Port Moresby(1875-2014)	92.4	6.0	64.8	25	76.1	40.6	73/118

TABLE 2: Three-monthly Rainfall
September-November 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #83]

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 (1944-2014)	374.4						
Nadzab (1973-2014)	429.8	229.0	340.6	274.6	32/38	**44**/37/19	**Inconsistent**
Wewak (1894-2014)							
Vanimo (1918-2014)	760.2	491.2	602.9	537.4	50/54	39/**41**/20	**Near consistent**
New Guinea Islands							
Momote (1949-2014)	841.8	635.8	786.6	718.3	49/66	36/**37**/27	Near Consistent
Kavieng (1916-2014)	1023.2						
Southern Region							
Misima (1917-2014)	481.8	559.0	868.0	705.2	25/89	**47**/27/26	**Consistent**
Port Moresby (1875-2014)	163.2	85.9	150.1	109.2	79/111	**45**/39/16	**Inconsistent**

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).

Period:*below normal/normal/above normal

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2015.

Predictors and Period used: September- November, NINO3.4

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
Momase Region						
Madang (1944-2014)	29	976.3	71		18.9	64.1
Nadzab(1973-2014)	41	469.7	59		47.0	57.9
Wewak (1894-2014)						
Vanimo (1918-2014)	41	876.4	59		5	56.9
New Guinea Islands						
Momote (1949-2014)	40	806.2	60		4.9	62.5
Kavieng (1916-2014)	38	942.1	62		11.3	62.1
Southern Region						
Misima(1917-2014)	64	785.4	36		9.3	62.3
Port Moresby(1875-2014)	62	571.9	38		8.3	67.2

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	Leps (%)	Hit-rate (%)
Momase Region							
Madang (1944-2014)	13	903.8	44	1071.3	43	12.8	48.4
Nadzab(1973-2014)	23	434.3	33	522.7	44	7.3	50.0
Wewak (1894-2014)							
Vanimo (1918-2014)	29	719.3	30	983.6	41	3.9	23.5
New Guinea Islands							
Momote (1949-2014)	28	752.2	29	888.6	43	5.1	42.2
Kavieng (1916-2014)	21	844.2	39	1011.7	40	6.6	41.4
Southern Region							
Misima(1917-2014)	43	715.6	36	933.0	21	10	44.3
Port Moresby(1875-2014)	38	507.7	35	635.3	27	1.8	43.8

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January- March 2015.

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Momase Region					
Madang					
Wewak					
New Guinea Islands					
Momote					
Kavieng					
Southern Region					
Misima					
Port Moresby					

Summary Statements:

Rainfall for November 2014:

Normal for Port Moresby, above normal for Nadzab and Kavieng and below normal for across the country

Accumulated rainfall for September to November 2014, including outlook verification

Rainfall over period September-November 2014 was above normal across the country except Misima with below normal rainfall.

Confidence was consistent at Misima and near consistent to inconsistent across the country.

Outlook for – January to March 2015:

1. **SCOPIC:**
   The SCOPIC seasonal rainfall outlook for January to March 2014 shows:
   - The most likely outcome for Nadzab, Vanimo and Momote is above normal
   - There is a near equal likelihood of normal or above normal rainfall at Madang and Kavieng
   - The most likely for outcome for Misima is below normal
   - There is a near equal likelihood of below normal or normal rainfall at Port Moresby
   - Confidence is low at Port Moresby and Vanimo, moderate at Nadzab, Momote and Kavieng and good at Madang and Misima

Note: Madang and Kavieng verification tables are blank as the stations have nil record in outlook 83

2. POAMA

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

Very High: 25 ≤X < 35 Exceptional: X ≥ 35