

## Pacific Islands - Online Climate Outlook Forum No 73

**Country:** PAPUA NEW GUINEA

### TABLE 1: Monthly Rainfall

Station (include data period)	September 2013						
	June Total	July Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Momase Region</b>							
Madang (1944-2013)	198.2	144.6	13.6	79.0	185.2	130.4	8/65
Nadzab(1973-2013)	134.6	82.6	223.2	55.0	122.0	95.0	37/38
Wewak (1894-2013)	377.4	161.2	42.8	147.2	206.6	180.4	4/58
Vanimo (1918-2013)	307.6	166.0	239.2	120.3	183.3	146.5	50/58
<b>New Guinea Islands</b>							
Momote (1949-2013)	398.8	632.2	530.4	189.8	273.2	236.2	64/65
Kavieng (1916-2013)	258.6	287.6	169.2	140.0	194.6	162.8	45/85
<b>Southern Region</b>							
Misima (1917-2013)	223.8	32.4	20.4	113.7	262.7	199.0	2/88
PortMoresby(1875-2013)	4.2	4.8	44.4	8.9	30.8	17.2	94/119

### TABLE 2: Three-monthly Rainfall (July - September 2013)

Predictors: *SSTa's 1 & 9*—Period: *March – May 2013*

[Please note that the data used in this verification should be sourced from table 3 of OCOF #69]

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?)
<b>Momase Region</b>							
Madang (1944-2013)	356.4	325.8	481.8	409.5	26/65	21/44/35(12.4)	Consistent
Nadzab (1973-2013)	440.4	251.2	462.7	362.0	23/37	18/44/38(1.4)	Consistent
Wewak (1894-2013)	581.4	469.5	592.0	558.2	34/58	21/41/38(23.3)	Consistent
Vanimo (1918-2013)	712.8	431.9	546.3	505.8	48/54	27/30/43(3.4)	Consistent
<b>New Guinea Islands</b>							
Momote (1949-2013)	1,561.4	746.4	1,040.3	885.7	64/64	19/38/43(5.3)	Consistent
Kavieng (1916-2013)	715.4	496.8	723.4	611.3	53/80	21/40/39(2.5)	Consistent
<b>Southern Region</b>							
Misima (1917-2013)	276.6	339.8	634.0	477.8	26/86	23/48/29(41.7)	Near Consistent
Port Moresby (1875-2013)	53.4	41.4	86.2	66.6	44/103	32/24/44(-0.6)	Near 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 November to January 2014**

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

Period:Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%)	Hit-rate (%)
<b>Momase Region</b>						
Madang (1944-2013)	<b>54</b>	1,050.3	46		-2.9	38.1
Nadzab(1973-2013)	<b>52</b>	400.5	48		-4.2	44.4
Wewak (1894-2013)	36	480.2	<b>64</b>		5.2	64.3
Vanimo (1918-2013)	36	731.3	<b>64</b>		-0.8	60.0
<b>New Guinea Islands</b>						
Momote (1949-2013)	<b>56</b>	818.4	44		-2.9	33.3
Kavieng (1916-2013)	<b>58</b>	840.5	42		-1.3	50.0
<b>Southern Region</b>						
Misima(1917-2013)	22	707.3	<b>78</b>		10.8	65.6
PortMoresby(1875-2013)	26	365.0	<b>74</b>		11.5	62.5

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	Leps (%)	Hit-rate (%)
<b>Momase Region</b>							
Madang (1944-2013)	<b>43</b>	967.2	30	1,144.2	27	-1.1	31.7
Nadzab(1973-2013)	<b>41</b>	350.9	23	435.9	36	-4.9	27.8
Wewak (1894-2013)	24	435.9	<b>38</b>	551.0	<b>38</b>	5.8	39.3
Vanimo (1918-2013)	19	642.2	<b>44</b>	821.7	37	-1.8	37.8
<b>New Guinea Islands</b>							
Momote (1949-2013)	<b>42</b>	730.8	34	877.1	24	-1.2	31.7
Kavieng (1916-2013)	<b>45</b>	770.0	21	949.7	34	-1.6	27.6
<b>Southern Region</b>							
Misima(1917-2013)	4	603.2	34	782.0	<b>62</b>	17.6	49.2
PortMoresby(1875-2013)	16	301.7	32	422.6	<b>52</b>	6.6	34.4

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
<b>Momase Region</b>					
Madang	17	960	<b>56</b>	1,116	27
Wewak	<b>40</b>	427	33	506	27
<b>New Guinea Islands</b>					
Momote	17	720	33	888	<b>50</b>
Kavieng	23	767	30	942	<b>47</b>
<b>Southern Region</b>					
Misima	24	553	<b>43</b>	738	33
PortMoresby	13	272	<b>50</b>	411	37

## Summary Statements:

### Rainfall for September 2013:

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

### Accumulated rainfall for July–September 2013, including outlook verification

During the last three months rainfall received was **Normal** to **Above Normal** except Misima received **Below Normal** Rainfall.

The forecasts were Consistent for Momase & New Guinea Islands whilst Southern was Near Consistent. The skills ranged from very low to exceptional.

### Outlook for November – January 2014:

#### 1. SCOPIC:

The model favours **Below Normal** to **Above Normal** rainfall for the three regions with very low to very high skills.

#### 2. POAMA Model

The model favours *Normal* to *Above Normal* for most of the country except Wewak with *Below Normal* rainfall.

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:  $X \geq 35$