

## Pacific Islands - Online Climate Outlook Forum No 74

**Country:** PAPUA NEW GUINEA

### TABLE 1: Monthly Rainfall

Station (include data period)	October 2013						
	Aug Total	Sept Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Momase Region</b>							
Madang (1944-2013)	144.6	13.6	<b>313.2</b>	209.4	286.3	254.5	47/65
Nadzab(1973-2013)	82.6	223.2	<b>150.0</b>	76.6	111.7	98.0	34/39
Wewak (1894-2013)	161.2	42.8	<b>216.6</b>	196.7	271.1	223.5	28/58
Vanimo (1918-2013)	166.0	239.2	<b>206.4</b>	143.5	226.9	173.3	34/55
<b>New Guinea Islands</b>							
Momote (1949-2013)	632.2	530.4	<b>259.6</b>	194.8	266.0	234.5	40/65
Kavieng (1916-2013)	287.6	169.2	<b>371.0</b>	159.4	263.8	211.7	74/86
<b>Southern Region</b>							
Misima (1917-2013)	32.4	20.4	<b>190.8</b>	127.1	319.6	235.8	39/88
PortMoresby(1875-2013)	4.8	44.4	<b>25.4</b>	10.1	34.4	18.5	66/118

### TABLE 2: Three-monthly Rainfall (August - October 2013)

*Predictors: SSTa's 1 & 9–Period: April –June 2013*

[Please note that the data used in this verification should be sourced from table 3 of OCOF #70]

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)	<b>471.4</b>	403.2	641.7	500.3	31/65	11/ <b>46</b> /43(20.8)	Consistent
Nadzab (1973-2013)	<b>455.8</b>	242.1	388.2	319.4	29/37	19/29/ <b>52</b> (1.6)	Consistent
Wewak (1894-2013)	<b>420.6</b>	503.6	666.8	576.4	12/58	10/39/ <b>51</b> (19.8)	Inconsistent
Vanimo (1918-2013)	<b>611.6</b>	484.5	543.3	513.2	44/52	34/29/ <b>37</b> (-4.5)	Consistent
<b>New Guinea Islands</b>							
Momote (1949-2013)	<b>1,422.2</b>	643.5	896.7	758.0	63/64	21/ <b>41</b> /38(1.2)	Near Consistent
Kavieng (1916-2013)	<b>827.8</b>	506.2	710.5	624.5	62/80	27/ <b>45</b> /28(-3.7)	Near Consistent
<b>Southern Region</b>							
Misima (1917-2013)	<b>243.6</b>	456.9	788.7	628.9	18/87	12/37/ <b>51</b> (32.3)	Inconsistent
Port Moresby (1875-2013)	<b>74.6</b>	58.7	96.2	75.2	52/107	32/19/ <b>49</b> (-0.2)	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>53</b>	1,014.7	47		1.4	61.9
Nadzab(1973-2013)	<b>54</b>	48.6	46		-2.1	51.4
Wewak (1894-2013)	38	412.2	<b>62</b>		1.3	51.8
Vanimo (1918-2013)	<b>50</b>	807.8	<b>50</b>		-4.6	26.7
<b>New Guinea Islands</b>						
Momote (1949-2013)	<b>66</b>	813.6	34		2.4	55.6
Kavieng (1916-2013)	<b>73</b>	907.6	27		8.1	58.6
<b>Southern Region</b>						
Misima(1917-2013)	33	769.0	<b>67</b>		8.3	65.6
PortMoresby(1875-2013)	42	469.2	<b>58</b>		5.0	57.8

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>40</b>	931.6	33	1,127.8	27	4.3	47.6
Nadzab(1973-2013)	<b>48</b>	418.2	26	507.4	26	-0.8	37.8
Wewak (1894-2013)	21	367.5	38	469.5	<b>41</b>	-1.0	26.8
Vanimo (1918-2013)	32	724.3	32	918.0	<b>36</b>	-5.5	22.2
<b>New Guinea Islands</b>							
Momote (1949-2013)	<b>46</b>	756.5	27	879.6	27	-1.1	30.2
Kavieng (1916-2013)	<b>45</b>	839.1	30	990.0	25	2.4	41.4
<b>Southern Region</b>							
Misima(1917-2013)	19	682.5	21	886.2	<b>60</b>	7.2	42.6
PortMoresby(1875-2013)	<b>34</b>	420.0	<b>33</b>	568.6	<b>33</b>	5.9	39.1

**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	26	940	<b>37</b>	1110	37
Wewak	33	381	<b>37</b>	461	30
<b>New Guinea Islands</b>					
Momote	20	753	37	872	<b>43</b>
Kavieng	30	846	<b>40</b>	956	30
<b>Southern Region</b>					
Misima	27	646	27	881	<b>46</b>
PortMoresby	33	423	30	508	<b>37</b>

## Summary Statements:

### Rainfall for October 2013:

**Normal to above normal** rainfall received across the country.

### Accumulated rainfall for August–October 2013, including outlook verification

Rainfall received was **normal to above normal** except Wewak & Misima received **below normal** rainfall.

The forecasts were near consistent for New Guinea Islands whilst Southern & Momase forecasts were consistent & inconsistent. The skills ranged from very low to very high.

### Outlook for December – February 2014:

#### 1. SCOPIC:

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

#### 2. POAMA Model

The model favours *Normal* to *Above Normal* rainfall for the rest of 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:  $X \geq 35$