

Pacific Islands - Online Climate Outlook Forum No 66

**Country:** PAPUA NEW GUINEA

**TABLE 1: Monthly Rainfall**

Station (include data period)	February 2013						
	December Total	January Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Momase Region</i>							
Madang (1944-2013)	474.0	418.6	<b>265.6 N</b>	230.8	350.6	291.2	29/65
Nadzab(1973-2013)	64.0	255.2	<b>162.4 N</b>	104.5	182.1	149.9	22/39
Wewak (1894-2013)	88.0	159.2	<b>121.6 N</b>	98.8	144.2	120.2	29/57
Vanimo (1918-2013)	155.0	624.8	<b>308.4 N</b>	199.0	308.6	267.4	39/59
<i>New Guinea Islands</i>							
Momote (1949-2013)	309.6	466.2	<b>231.0 N</b>	202.2	294.4	229.6	32/63
Kavieng (1916-2013)	236.0	368.6	<b>296.8 N</b>	232.4	311.4	264.8	50/83
<i>Southern Region</i>							
Misima (1917-2013)	139.4	608.2	<b>139.6 BN</b>	233.0	362.0	309.2	7/89
PortMoresby(1875-2013)	18.2	307.4	<b>117.0 BN</b>	141.6	220.0	168.7	35/125

**TABLE 2: Three-monthly Rainfall (December 2012- February 2013)**

Predictors: SSTa's 1 & 9 – Period: *August-October 2012*

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?)
<i>Momase Region</i>							
Madang (1944-2013)	1158.2 <b>AN</b>	926.3	1125.0	1011.9	47/65	19/ <b>57</b> /24(4.3)	Near Consistent
Nadzab (1973-2013)	481.6 <b>N</b>	414.5	508.3	478.3	19/37	<b>50</b> /14/36(-0.2)	Near Consistent
Wewak (1894-2013)	368.8 <b>N</b>	364.0	474.2	412.4	20/56	31/29/ <b>40</b> (-1.0)	Near Consistent
Vanimo (1918-2013)	1088.2 <b>AN</b>	718.6	918.0	806.7	43/53	<b>37</b> /32/31(-5.5)	Inconsistent
<i>New Guinea Islands</i>							
Momote (1949-2013)	1006.8 <b>AN</b>	755.7	874.7	813.3	55/63	<b>41</b> /36/23(-1.1)	Inconsistent
Kavieng (1916-2013)	901.4 <b>N</b>	838.2	992.4	912.4	40/80	<b>35</b> /32/33(2.4)	Near Consistent
<i>Southern Region</i>							
Misima (1917-2013)	887.2 <b>AN</b>	679.1	884.2	766.5	56/83	26/35/ <b>39</b> (7.2)	Consistent
PortMoresby (1875-2013)	442.6 <b>N</b>	419.6	568.8	472.2	49/121	<b>56</b> /25/19(5.9)	Near Consistent

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 April- June 2013**

*Predictors: [SSTa's 1 & 9](#) - Period: [December 2012-February 2013](#)*

<b>Period: Station</b>	<b>Below Median (prob)</b>	<b>Median Rainfall (mm)</b>	<b>Above Median (prob)</b>		<b>LEPS (%)</b>	<b>Hit-rate (%)</b>
<b>Momase Region</b>						
Madang (1944-2013)	<b>53</b>	1010.2	47		-0.1	53.2
Nadzab(1973-2013)	<b>69</b>	307.0	31		13.5	61.1
Wewak (1894-2013)	41	641.6	<b>59</b>		0.8	57.9
Vanimo (1918-2013)	36	648.4	<b>64</b>		8.8	66.7
<b>New Guinea Islands</b>						
Momote (1949-2013)	42	804.0	<b>58</b>		0.7	55.6
Kavieng (1916-2013)	46	777.3	<b>54</b>		0.8	51.8
<b>Southern Region</b>						
Misima(1917-2013)	<b>54</b>	763.8	46		10.2	55.0
PortMoresby(1875-2013)	41	207.8	<b>59</b>		12.7	61.9

<b>Station</b>	<b>Below Normal (prob)</b>	<b>33%ile rainfall (mm)</b>	<b>Normal (prob)</b>	<b>66%ile rainfall (mm)</b>	<b>Above Normal (prob)</b>	<b>Leps (%)</b>	<b>Hit-rate (%)</b>
<b>Momase Region</b>							
Madang (1944-2013)	34	900.9	<b>39</b>	1081.0	27	4.5	43.5
Nadzab(1973-2013)	<b>38</b>	267.5	36	347.1	26	-0.6	38.9
Wewak (1894-2013)	32	574.0	27	669.7	<b>41</b>	0.2	42.1
Vanimo (1918-2013)	20	573.1	36	721.5	<b>44</b>	4.6	39.6
<b>New Guinea Islands</b>							
Momote (1949-2013)	30	705.1	31	887.3	<b>39</b>	-1.8	28.6
Kavieng (1916-2013)	29	688.4	<b>36</b>	884.1	35	0.3	23.2
<b>Southern Region</b>							
Misima(1917-2013)	<b>45</b>	615.0	38	919.4	17	19.1	41.7
PortMoresby(1875-2013)	26	175.9	37	270.6	37	8.3	42.9

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for April - June 2013**

<b>Station</b>	<b>Lower Tercile (prob)</b>	<b>33%ile rainfall (mm)</b>	<b>Middle Tercile (prob)</b>	<b>66%ile rainfall (mm)</b>	<b>Upper Tercile (prob)</b>
<b>Momase Region</b>					
Wewak	30	560.0	<b>40</b>	671.0	30
<b>Southern Region</b>					
PortMoresby	30	189.0	20	294.0	<b>50</b>

## Summary Statement:

### **Rainfall for February 2013:**

Normal rainfall was received across the country except for southern Region receiving Below Normal rainfall.

### **Accumulated rainfall December 2012 to February 2013, including outlook verification**

Three month rainfall received across the country was Normal- Above Normal.

The forecast for the three months were Near Consistent to Inconsistent across the country except for Misima in the Southern Region which was Consistent.

### **Outlook for April – June 2013 :**

#### **1. SCOPIC:**

**Momase Region:** Madang, Wewak & Vanimo- Normal to Above Normal rainfall with low skills.  
Nadzab- Below Normal rainfall with very low skills.

**New Guinea Islands:** Normal to Above normal rainfall with very low skills

**Sothern region:** Below Normal to Normal rainfall with high skills.

#### **2. POAMA Model.**

The model favours Normal rainfall for Wewak and Above normal rainfall for Port Moresby

**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:  $X \geq 35$