

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 70

Country Name: PAPUA NEW GUINEA

### TABLE 1: Monthly Rainfall

Station (include data period)	June 2013						
	April 2013 Total	May 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Momase Region</b>							
Madang (1944-2013)	619.6	316.8	<b>256.6 AN</b>	150.6	225.2	205.8	49/65
Nadzab(1973-2013)	273.8	201.6	<b>100.0 N</b>	62.4	121.0	78.9	22/39
Wewak (1894-2013)	307.0	434.4	<b>280.6 AN</b>	169.9	221.3	190.2	51/58
Vanimo (1918-2013)	291.2	204.2	<b>267.8 AN</b>	161.8	245.8	204.4	45/59
<b>New Guinea Islands</b>							
Momote (1949-2013)							
Kavieng (1916-2013)	302.0	120.2	<b>315.8 AN</b>	188.7	260.5	212.4	67/84
<b>Southern Region</b>							
Misima (1917-2013)	357.2	307.4	<b>116.2 BN</b>	132.3	284.3	211.2	25/87
PortMoresby(1875-2013)	190.8	18.0	<b>51.8 AN</b>	10.9	43.3	23.8	89/116

### TABLE 2: Three-monthly Rainfall (April – June 2013)

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

[Please note that the data used in this verification should be sourced from table 3 of OCOF #66]

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent Inconsistent?)
<b>Momase Region</b>							
Madang (1944-2013)	<b>1,193.0 AN</b>	900.9	1,081.0	1,010.2	56/64	34/ <b>39</b> /27(3.3)	Near Consistent
Nadzab(1973-2013)	<b>575.4 AN</b>	267.5	343.1	307.0	37/37	<b>39</b> /35/26(-2.5)	Inconsistent
Wewak (1894-2013)	<b>1,022.0 AN</b>	574.0	669.7	641.8	57/58	32/27/ <b>41</b> (1.0)	Consistent
Vanimo (1918-2013)	<b>763.2 AN</b>	573.1	721.5	648.4	43/57	20/36/ <b>44</b> (4.4)	Consistent
<b>New Guinea Islands</b>							
Momote (1949-2013)							
Kavieng (1916-2013)	<b>738.0 N</b>	688.4	884.1	777.3	37/83	29/ <b>36</b> /35(-0.3)	Consistent
<b>Southern Region</b>							
Misima (1917-2013)	<b>780.8 N</b>	615.0	919.4	763.8	45/86	<b>45</b> /38/17(19.3)	Near Consistent
PortMoresby(1875-2013)	<b>260.6 N</b>	175.9	270.6	207.8	71/112	26/ <b>37</b> / <b>37</b> (8.4)	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 using SCOPIC for  
August to October 2013**

*Predictors: SSTa's 1 & 9 - Period: April-June 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)	23	500.3	77		20.9	65.1
Nadzab(1973-2013)	31	319.4	69		5.6	58.3
Wewak (1894-2013)	32	576.5	68		27.6	71.9
Vanimo (1918-2013)	44	513.2	56		-0.5	52.2
<b>NewGuinea Islands</b>						
Momote (1949-2013)						
Kavieng (1916-2013)	48	624.5	52		-2.6	50.9
<b>Southern Region</b>						
Misima(1917-2013)	30	628.9	70		24.6	67.2
PortMoresby(1875-2013)	41	75.2	59		-1.3	51.6

<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)	11	403.2	46	641.7	43	20.8	49.2
Nadzab(1973-2013)	19	242.1	29	388.2	52	1.6	38.9
Wewak (1894-2013)	10	503.6	39	666.8	51	19.8	45.6
Vanimo (1918-2013)	34	484.5	29	543.3	37	-4.5	32.6
<b>NewGuinea Islands</b>							
Momote (1949-2013)							
Kavieng (1916-2013)	27	506.2	45	710.5	28	-3.7	34.5
<b>Southern Region</b>							
Misima(1917-2013)	12	456.9	37	788.7	51	32.3	55.7
PortMoresby(1875-2013)	32	58.7	19	96.2	49	-0.2	45.3

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
August to October 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	27	454	43	627	30
<b>Southern Region</b>					
Port Moresby	27	36	33	81	40

## **Summary Statements**

### **Rainfall for June 2013:**

Nadzab received normal rainfall and Misima received below normal rainfall whilst the rest of the country received above normal rainfall.

### **Accumulated rainfall for April–June 2013, including outlook verification:**

Momase region received above normal rainfall whilst New Guinea Islands and Southern received normal rainfalls. The forecasts were consistent to near consistent except Nadzab being inconsistent. The skills were very low to high.

### **Outlooks for August–October 2013:**

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

Momase and Southern region favours above normal rainfall whilst New Guinea Islands and Madang in Momase favours normal rainfall. Confidence is very low to very high.

#### **2. POAMA:**

The model favours **normal** for Wewak and **above normal** 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:  $X \geq 35$