

Pacific Islands - Online Climate Outlook Forum No 102

Country: PAPUA NEW GUINEA

TABLE 1: Monthly Rainfall

Station (include data period)	February 2016						
	Dec 2015 Total	Jan 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Momase Region</b>							
Madang (1944-2016)	-	325.2	253.4	230.8	343.6	285.0	30/68
Nadzab(1973-2016)	280.0	169.2	207.2	110.7	187.4	158.6	32/42
Wewak (1894-2016)	121.6	62.4	111.0	105.1	144.2	121.6	22/60
Vanimo (1918-2016)	294.8	-	225.4	199.0	308.4	264.8	25/62
<b>Highlands Region</b>							
Goroka (1948-2016)	108.0	246.0	-	194.0	268.8	231.6	-
<b>New Guinea Islands</b>							
Momote (1949-2016)	270.0	308.0	202.2	202.2	294.4	231.0	23/66
Kavieng (1916-2016)	255.4	312.6	295.2	232.4	306.6	264.4	50/86
<b>Southern Region</b>							
Misima (1917-2016)	167.0	74.6	116.8	233.0	362.0	304.4	2/92
PortMoresby(1875-2016)	82.2	42.6	228.0	140.6	220.0	167.9	91/128

TABLE 2: Three-monthly Rainfall (December 2015 – February 2016)

Predictor *NINO3.4 SST Anomalies*:—Period: *September - October 2015*

[Please note that the data used in this verification should be sourced from table 3 of OCOF #98]

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 (1944-2016)	-	941.0	1,125.0	1,014.7	-	3/50/47 (11.2)	-
Nadzab (1973-2016)	656.4	425.4	515.9	489.2	38/40	20/23/57 (0.6)	Consistent
Wewak (1894-2016)	295.0	364.0	461.2	412.2	11/59	54/26/20 (0.6)	Consistent
Vanimo (1918-2016)	-	718.6	918.0	807.8	-	18/47/35 (-1.7)	-
<b>Highlands Region</b>							
Goroka (1948-2016)	-	635.8	738.7	691.5	-	31/26/43 (-2.1)	-
<b>New Guinea Islands</b>							
Momote (1949-2016)	780.2	757.5	905.0	819.2	30/66	16/37/47 (1.6)	Near-consistent
Kavieng (1916-2016)	863.2	840.8	985.3	918.3	35/83	4/47/49 (10.8)	Near-consistent
<b>Southern Region</b>							
Misima (1917-2016)	358.4	689.4	887.2	769.0	2/86	44/45/11 (2.1)	Near-consistent
PortMoresby (1875-2016)	352.8	420.5	564.2	469.2	22/124	64/29/7 (9.1)	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 April to June 2016**

*Predictors: [NINO3.4 SST Anomalies-Period: January - February 2016](#)*

<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 (1944-2016)	<b>81</b>	1,017.7	19		6.4	60.3
Nadzab(1973-2016)	<b>65</b>	313.4	35		-1.4	56.4
Wewak (1894-2016)	<b>59</b>	639.3	41		-1.3	53.3
Vanimo (1918-2016)	24	650.4	<b>76</b>		2.3	54.9
<b>Highlands Region</b>						
Goroka (1948-2016)	<b>65</b>	391.5	35		-1.4	54.3
<b>New Guinea Islands</b>						
Momote (1949-2016)	<b>63</b>	806.9	37		-0.6	54.5
Kavieng (1916-2016)	36	777.3	<b>64</b>		-0.6	56.9
<b>Southern Region</b>						
Misima(1917-2016)	<b>93</b>	764.9	7		16.0	65.1
Port Moresby(1875-2016)	<b>89</b>	639.3	11		-1.3	53.3

<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 (1944-2016)	<b>59</b>	901.2	36	1,086.6	5	8.8	47.6
Nadzab(1973-2016)	<b>56</b>	268.8	19	347.1	25	-2.2	38.5
Wewak (1894-2016)	<b>58</b>	564.3	21	669.7	21	0.6	41.7
Vanimo (1918-2016)	21	576.9	<b>40</b>	733.3	<b>39</b>	-1.4	25.5
<b>Highlands Region</b>							
Goroka (1948-2016)	<b>46</b>	333.0	32	425.3	22	-1.3	39.1
<b>New Guinea Islands</b>							
Momote (1949-2016)	<b>41</b>	705.1	34	893.1	25	-0.9	19.7
Kavieng (1916-2016)	21	688.5	33	888.7	<b>46</b>	-1.2	29.3
<b>Southern Region</b>							
Misima(1917-2016)	<b>79</b>	615.0	21	919.4	0	22.6	52.4
Port Moresby(1875-2016)	<b>70</b>	175.9	25	268.7	5	9.2	66.7

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2016**

<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>					
Madang					
Nadzab					
Wewak					
<b>New Guinea Islands</b>					
Momote					
Kavieng					
<b>Southern Region</b>					
Misima					
Port Moresby					
Daru					

## Summary Statements:

### Rainfall for February 2016

During the month of February, observed rainfall was normal for New Guinea Islands Region and three stations in the Momase Region. Nadzab and Port Moresby observed above normal whilst Misima observed below normal rainfall.

### Accumulated rainfall for December 2015 to February 2016, including outlook verification

Below normal rainfall was recorded in the Southern Region and Wewak in the Momase Region. New Guinea Islands recorded normal rainfall whilst Nadzab in the Momase Region received above normal.

Forecasts were consistent to near-consistent with very low to good skills.

### Outlook for – April to June 2016:

#### 1. SCOPIC:

The SCOPIC seasonal rainfall outlook for April to June 2016 shows:

- **Momase Region:** Vanimo favoured above normal with normal the next most likely outcome, whilst the rest of the stations favoured below normal rainfall.
- **New Guinea Islands:** Below normal is favoured for Momote whilst above normal for Kavieng.
- **Southern Region:** Below normal rainfall is favoured for the region.
- **Highlands Region:** Below normal rainfall is favoured for the region.
- Confidence is very low to moderate at all stations except Misima in the Southern region with high confidence.

#### 2. POAMA:

**Unable to access the data from the POAMA website.**

**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:  $X \geq 35$