

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 72

**Country Name:** Fiji

### TABLE 1: Monthly Rainfall

Station (include data period)	August 2013						
	June 2013 Total	July 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Western Division</b>							
Penang Mill (1910-2013)	102.6	61.5	36.9	39.4	78.6	56.0	32/104
Lautoka Mill (1900-2013)	138.6	9.7	18.3	24.1	81.8	43.7	27/114
Nadi Airport (1942-2013)	124.9	6.3	10.7	26.7	74.4	49.6	13/72
Yasawa-I-Rara (1950-2013)	43.0	61.1	119.0	29.4	58.4	46.0	51/60
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2013)	140.9	238.3	155.4	93.1	147.2	126.7	51/72
Nausori Airport (1957-2013)	229.5	284.5	149.3	90.2	167.0	113.4	37/57
Tokotoko (Navua) (1945-2013)	361.7	273.0	288.2	140.1	213.5	187.1	52/68
<b>Eastern Division</b>							
Lakeba (1950-2013)	78.8	188.4	148.2	53.4	100.8	73.0	51/65
Vunisea (Kadavu) (1931-2013)	123.5	81.3	85.4	56.4	124.3	87.1	36/77
Ono-I-Lau (1943-2013)	77.5	56.2	118.1	52.8	105.2	76.7	46/66
<b>Northern Division</b>							
Labasa Airfield (1956-2013)	82.4	33.2	131.4	13.7	63.2	47.7	56/58
Nabouwalu (1918-2013)	153.9	108.3	Missing	53.5	120.0	85.0	Missing
Rotuma (1912-2013)	208.2	Missing	Missing	153.0	256.2	197.3	Missing

**TABLE 2: Three-monthly Rainfall  
June to August 2013  
Predictors and Period used : SST 1 & 9 (Feb to April)**

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>Western Division</b>							
Penang Mill (1910-2013)	<b>201.0</b>	160.0	226.4	185.4	61/104	35:25: <b>40</b> (1.0)	Near-consistent
Lautoka Mill (1900-2013)	<b>166.6</b>	121.2	223.8	170.1	55/114	25:28: <b>47</b> (9.3)	Near-consistent
Nadi Airport (1942-2013)	<b>141.9</b>	124.6	208.8	179.9	30/72	24:34: <b>42</b> (8.3)	Near-consistent
Yasawa-I-Rara (1950-2013)	<b>223.1</b>	132.2	246.4	193.8	33/60	31:31: <b>38</b> (7.6)	Near-consistent
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2013)	<b>534.6</b>	366.9	506.5	436.2	50/72	37:26:37 (2.4)	Near-consistent
Nausori Airport (1957-2013)	<b>663.3</b>	350.3	495.5	428.0	49/57	35:27: <b>38</b> (7.7)	Consistent
Tokotoko (Navua) (1945-2013)	<b>922.9</b>	500.3	679.0	576.5	63/68	33:33:34 (4.3)	Near-consistent
<b>Eastern Division</b>							
Lakeba (1950-2013)	<b>415.4</b>	196.8	304.0	270.5	54/63	29:34: <b>37</b> (12.0)	Consistent
Vunisea (Kadavu) (1931-2013)	<b>290.2</b>	255.0	398.0	320.1	35/77	31: <b>36</b> :33 (2.1)	Consistent
Ono-I-Lau (1943-2013)	<b>251.8</b>	254.8	347.4	289.9	21/64	<b>38</b> :26:36 (-0.7)	Consistent
<b>Northern Division</b>							
Labasa Airfield (1956-2013)	<b>247.0</b>	116.0	184.2	146.5	54/57	25:28: <b>47</b> (11.0)	Consistent
Nabouwalu (1918-2013)	Missing	231.9	336.9	283.5	Missing	26: <b>38</b> :36 (15.8)	Missing
Rotuma (1912-2013)	Missing	589.6	784.5	705.8	Missing	28: <b>41</b> :31 (1.8)	Missing

\* 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  
October to December 2013**

**Predictors and Period used: SOI (June to August 2013)**

Station	<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><i>Western Division</i></b>							
Penang Mill (1910-2013)	23	347.6	33	570.9	<b>44</b>	7.0	43.9
Lautoka Mill (1900-2013)	19	277.0	36	443.9	<b>45</b>	11.8	44.2
Nadi Airport (1942-2013)	16	325.7	37	477.9	<b>47</b>	13.3	50.0
Yasawa-I-Rara (1950-2013)	20	261.6	30	433.6	<b>50</b>	14.7	46.7
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2013)	22	539.0	34	828.2	<b>44</b>	6.5	42.3
Nausori Airport (1957-2013)	20	541.0	37	809.8	<b>43</b>	5.3	39.3
Tokotoko (Navua) (1945-2013)	21	749.1	32	1024.9	<b>47</b>	10.0	41.8
<b><i>Eastern Division</i></b>							
Lakeba (1950-2013)	15	334.4	38	527.0	<b>47</b>	13.8	45.3
Vunisea (Kadavu) (1931-2013)	19	306.9	35	502.8	<b>46</b>	10.1	40.3
Ono-I-Lau (1943-2013)	10	225.1	39	401.0	<b>51</b>	20.9	53.7
<b><i>Northern Division</i></b>							
Labasa Airfield (1956-2013)	15	364.0	31	632.3	<b>54</b>	15.1	46.3
Nabouwalu (1918- 2013)	11	445.2	33	700.0	<b>56</b>	22.6	50.0
Rotuma (1912 -2013)	30	837.4	<b>38</b>	1057.0	32	-0.8	42.4

**Seasonal Climate Outlook:**

**October to December 2013 - Median Table:**

<b>Station</b>	<b>Below Median (prob)</b>	<b>Median rainfall (mm)</b>	<b>Above Median (prob)</b>			<b>LEPS</b>	<b>Hit-rate</b>
<i><b>Western Division</b></i>							
Penang Mill (1910-2013)	34	461	66			12.7	67.3
Lautoka Mill (1900-2013)	34	358	66			13.6	63.7
Nadi Airport (1942-2013)	31	380.1	69			14.9	65.7
Yasawa-I-Rara (1950-2013)							
<i><b>Central Division</b></i>							
Laucala Bay (Suva) (1942-2013)	38	691.2	62			6	59.2
Nausori Airport(1957-2013)	29	679.6	71			12.8	66.1
Tokotoko (Navua) (1945-2013)	31	873.2	69			15.6	65.7
<i><b>Eastern Division</b></i>							
Lakeba (1950-2013)	32	409.1	68			15	68.8
Vunisea (Kadavu) (1931-2013)	35	409	65			8.6	67.5
Ono-I-Lau (1943-2013)	19	348.3	81			33.8	82.1
<i><b>Northern Division</b></i>							
Labasa Airfield (1956-2013)	22	485.4	78			22.2	70.4
Nabouwalu (1918-2013)	27	546	73			18.6	68.1
Rotuma (1912 -2013)	<b>48</b>	946.7	52			-0.9	57.6

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
October to December 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	30	305	33	410	<b>37</b>
Suva	30	505	33	763	<b>37</b>
Udu Point	30	437	30	605	<b>40</b>
Rotuma	30	828	<b>40</b>	1026	30

## Summary Statements

### **Rainfall for August 2013:**

Majority of the stations in the Western Division received *below normal* rainfall during August with *normal* to *above normal* rainfall recorded in the other Divisions.

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

Rainfall over the past three months was *above normal* across the Central Division, while *normal* rainfall was received throughout the Western Division. Rainfall in the Eastern Division varied significantly, ranging from *below normal* to *above normal*, whereas Labasa Airfield in the Northern Division recorded *above normal* rainfall.

The SCOPIC forecasts for the June to August 2013 period were consistent at 4 out of the 13 stations, near-consistent at 7, while the forecast for 2 stations cannot be verified due to missing observations.

### **Outlooks for October - December 2013:**

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

*Above normal* rainfall is favoured across the country over October to December 2013 period. The forecast skill generally ranges from *moderate* to *good*.

The SCOPIC Model favours *normal* rainfall at Rotuma with *very low* skill.

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

POAMA Model favours *above normal* rainfall at Nadi Airport, Suva and Udu Point, while *normal* rainfall is favoured at Rotuma.

**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:  $X \geq 35$