

## Pacific Islands - Online Climate Outlook Forum (OCOF) No.75

**Country Name:** Fiji

### TABLE 1: Monthly Rainfall

Station (include data period)	November 2013						
	September 2013 Total	October 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Western Division</b>							
Penang Mill (1910-2013)	37.2	124.9	89.5	92.3	189.4	133.0	32/102
Lautoka Mill (1900-2013)	73.8	62.2	290.4	62.9	139.7	101.9	105/114
Nadi Airport (1942-2013)	159.0	118.7	239.2	90.1	148.2	122.6	62/71
Yasawa-I-Rara (1950-2013)	57.3	177.2	89.2	59.3	163.8	115.0	26/62
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2013)	173.7	240.3	155.3	157.4	271.2	205.6	24/72
Nausori Airport (1957-2013)	139.9	290.2	112.3	199.6	302.9	238.2	11/58
Tokotoko (Navua) (1945-2013)	394.1	362.9	135.9	229.6	349.5	279.0	11/68
<b>Eastern Division</b>							
Lakeba (1950-2013)	111.3	145.6	100.9	71.9	177.9	114.8	30/65
Vunisea (Kadavu) (1931-2013)	372.5	Missing	263.5	84.9	156.8	108.9	66/78
Ono-I-Lau (1943-2013)	75.6	35.8	104.1	53.7	125.9	92.5	42/68
<b>Northern Division</b>							
Labasa Airfield (1956-2013)	131.7	90.9	266.8	119.1	203.4	154.1	45/55
Nabouwalu (1918-2013)	65.8	197.5	233.7	126.0	236.2	174.0	63/95
Rotuma (1912-2013)	Missing	Missing	223.5	250.5	348.6	300.8	26/100

Period: \*below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall  
September to November 2013  
Predictors and Period used: SST 1 & 9 (May to July)**

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>251.6</b>	248.0	368.8	295.3	36/101	16:16: <b>68</b> (15.5)	Near-consistent
Lautoka Mill (1900-2013)	<b>426.4</b>	185.3	324.8	264.7	92/114	7:23: <b>70</b> (21.5)	Consistent
Nadi Airport (1942-2013)	<b>516.9</b>	240.9	342.9	296.8	65/71	6:41: <b>53</b> (21.1)	Consistent
Yasawa-I-Rara (1950-2013)	<b>323.7</b>	195.9	355.5	268.7	35/60	6:27: <b>67</b> (21.0)	Near-consistent
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2013)	<b>569.3</b>	465.2	754.7	648.5	32/72	13:32: <b>55</b> (11.4)	Near-consistent
Nausori Airport (1957-2013)	<b>542.4</b>	445.8	729.4	601.5	23/57	14:40: <b>46</b> (6.5)	Near-consistent
Tokotoko (Navua) (1945-2013)	<b>892.9</b>	648.2	937.6	767.1	42/68	11:44: <b>45</b> (16.1)	Near-consistent
<b>Eastern Division</b>							
Lakeba (1950-2013)	<b>357.8</b>	297.6	409.7	331.2	38/65	22:17: <b>61</b> (9.1)	Near-consistent
Vunisea (Kadavu) (1931-2013)	Missing	309.3	433.7	384.96	-	3:34: <b>63</b> (24.7)	-
Ono-I-Lau (1943-2013)	<b>215.5</b>	213.4	382.8	294.5	23/66	12:41: <b>47</b> (9.4)	Near-consistent
<b>Northern Division</b>							
Labasa Airfield (1956-2013)	<b>489.4</b>	263.1	382.6	311.7	42/54	10:36: <b>54</b> (14.6)	Consistent
Nabouwalu (1918-2013)	<b>497.0</b>	352.0	558.0	419.2	60/95	10:36: <b>54</b> (17.4)	Near-consistent
Rotuma (1912-2013)	Missing	726.0	945.8	848.2	-	<b>41:27:32</b> (-0.3)	-

\* 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  
January to March 2014**

**Predictors and Period used: SOI (September to November 2013)**

<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><i>Western Division</i></b>							
Penang Mill (1910-2013)	25	931.2	36	1188.7	<b>39</b>	15.8	49.0
Lautoka Mill (1900-2013)	25	806.0	35	1073.4	<b>40</b>	14.7	49.6
Nadi Airport (1942-2013)	26	838.6	36	1094.7	<b>38</b>	12.8	50.0
Yasawa-I-Rara (1950-2013)	17	638.9	<b>42</b>	908.3	<b>41</b>	25.4	50.8
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2013)	32	853.0	33	1085.9	<b>35</b>	-1.1	27.8
Nausori Airport (1957-2013)	33	888.2	<b>34</b>	1077.4	33	-2.2	15.8
Tokotoko (Navua) (1945-2013)	34	926.8	<b>35</b>	1245.5	31	-0.4	39.1
<b><i>Eastern Division</i></b>							
Lakeba (1950-2013)	26	661.1	36	890.4	<b>38</b>	17.5	49.2
Vunisea (Kadavu) (1931-2013)	30	615.1	<b>35</b>	834.2	<b>35</b>	1.1	39.0
Ono-I-Lau (1943-2013)	31	500.9	33	687.7	<b>36</b>	0.5	35.4
<b><i>Northern Division</i></b>							
Labasa Airfield (1956- 2013)	25	981.0	37	1305.0	<b>38</b>	9.9	38.6
Nabouwalu (1918-2013)	24	827.1	37	1073.2	<b>39</b>	13.1	46.9
Rotuma (1912 -2013)	25	930.0	37	1164.0	<b>38</b>	9.1	43.0

**Seasonal Climate Outlook:**

**January to March 2014 - Median Table:**

**Predictors and Period used: SOI (September to November 2013)**

<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>
<b><i>Western Division</i></b>					
Penang Mill (1910-2013)	43	1068.6	<b>57</b>	11.2	67.3
Lautoka Mill (1900-2013)	43	945.8	<b>57</b>	9.3	64.6
Nadi Airport (1942-2013)	43	937.5	<b>57</b>	11.7	64.3
Yasawa-I-Rara (1950-2013)	39	764.9	<b>61</b>	23.6	68.9
<b><i>Central Division</i></b>					
Laucala Bay (Suva) (1942-2013)	49	1012.4	<b>51</b>	-1.3	26.4
Nausori Airport(1957-2013)	<b>52</b>	956.3	48	-0.9	57.9
Tokotoko (Navua) (1945-2013)	<b>51</b>	1086.6	49	-0.5	56.5
<b><i>Eastern Division</i></b>					
Lakeba (1950-2013)	43	765.0	<b>57</b>	11.3	61.9
Vunisea (Kadavu) (1931-2013)	47	743.9	<b>53</b>	0.8	50.6
Ono-I-Lau (1943-2013)	46	617.8	<b>54</b>	1.7	60.0
<b><i>Northern Division</i></b>					
Labasa Airfield (1956-2013)	45	1128.7	<b>55</b>	6.9	66.7
Nabouwalu (1918-2013)	44	944.0	<b>56</b>	7.4	62.5
Rotuma (1912 -2013)	43	1049.3	<b>57</b>	11.1	69.0

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
January to March 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	20	810	23	1045	57
Suva	20	840	23	1022	57
Udu Point	27	695	33	990	40
Rotuma	23	893	44	1095	33

## **Summary Statements**

### **Rainfall for November 2013:**

The Northern, Eastern and the Western Division recorded *normal* to *above normal* rainfall with only exception at Penang Mill where *below normal* rainfall was recorded. The Central Division and Rotuma recorded *below normal* rainfall.

### **Accumulated rainfall for September to November 2013, including outlook verification:**

Rainfall during September to November 2013 period, Western and Northern Divisions recorded *normal* to *above normal* rainfall, while eastern and central Divisions recorded *normal* rainfall.

The SCOPIC forecasts for the September to November 2013 period were consistent at 3 of the stations and near- consistent at 8 sites while forecasts could not be verified at 2 stations due to missing observations.

### **Outlooks for January to March 2014:**

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

Generally *normal* to *above normal* rainfall favoured.

**Western Division:** *above normal* rainfall, with good to high skill

**Central Division:** *normal* to *above normal*, with very low skill

**Northern Division:** *normal* to *above normal*, with moderate to good skill

**Eastern Division:** *Above normal* rainfall, with low to good skill

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

*Above normal* rainfall favoured at Nadi Airport, Suva and Udu Point while *normal* rainfall is favoured for 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:  $X \geq 35$