

## Pacific Islands - Online Climate Outlook Forum No 68

**Country: Fiji**

**Table 1: Monthly Rainfall**

Station (data period)			March 2013				
	Jan. 2012 Total	Feb. 2013 Total	Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i><b>Western Division</b></i>							
Penang Mill (1910-2013)	311.4	462.4	394.0	269.3	449.6	363.7	61/104
Lautoka Mill (1900-2013)	116.3	531.2	482.9	219.7	383.6	285.2	88/113
Nadi Airport ( 1942-2013)	87.9	459.8	341.7	243	413.3	317.3	39/70
Yasawa-I-Rara (1950-2013)	70.1	340.7	530.1	181.3	324.2	237.6	57/62
<i><b>Central Division</b></i>							
Laucala Bay (Suva) (1942-2013)	188.5	434.5	444.4	298	429	343.3	53/72
Nausori Airport (1957-2013)	347.7	588.1	402.6	303.6	449.3	362.6	34/57
Tokotoko (Navua) (1945-2013)	354.2	347.6	436.6	320.3	440	380	45/69
<i><b>Eastern Division</b></i>							
Lakeba (1950-2013)	123.0	340.9	503.3	218.7	332.8	264.7	58/63
Vunisea (Kadavu) (1931-2013)	118.6	276.9	336.6	214.9	301.4	269.9	58/77
Ono-I-Lau (1943-2013)	99.0	195.4	363.3	170.2	285.5	206	54/66
<i><b>Northern Division</b></i>							
Labasa Airfield (1956-2013)	172.0	217.4	714.4	272.5	437.8	356	55/58
Nabouwalu (1918-2013)	224.2	304.4	560.5	244	371.5	295.5	88/96
Rotuma (1912-2013)	470.9	203.8	629.6	257.3	421.2	327	97/100

*Below Normal Rainfall*

*Normal Rainfall*

*Above Normal Rainfall*

**Table 2: Three-monthly Rainfall**

**January to March 2013**  
**Predictor: SOI (September to November 2012)**

Station	Three-month Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecasted probs.* (include LEPS)	Verification <sup>1</sup> (Consistent, Near-consistent, Inconsistent ?)
<b><i>Western Division</i></b>							
Penang Mill (1910-2013)	<b>1167.8</b>	927.8	1189	1066.5	68/104	25: <b>37:38</b> (16.1)	Near Consistent
Lautoka Mill (1900-2013)	<b>1130.4</b>	804.1	1064.3	1064.3	82/113	25: <b>37:38</b> (15.4)	Consistent
Nadi Airport (1942-2013)	<b>889.4</b>	828.6	1098.4	937.8	33/70	28: <b>36:36</b> (13.2)	Near Consistent
Yasawa-I-Rara (1950-2013)	<b>941</b>	632.4	901.7	753.6	43/61	18: <b>43:39</b> (28.1)	Near Consistent
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2013)	<b>1067.4</b>	847.4	1096.3	1008.1	44/72	33:33:34 (-1)	Near Consistent
Nausori Airport (1957-2013)	<b>1338.4</b>	883.8	1071.4	955.8	52/57	33:34:33 (-2.2)	Near Consistent
Tokotoko (Navua) (1945-2013)	<b>1138.4</b>	926.2	1246.4	1083.5	38/69	34:34:32 (-1)	Near Consistent
<b><i>Eastern Division</i></b>							
Lakeba (1950-2013)	<b>967.2</b>	659.7	882	764.2	47/63	28: <b>36:36</b> (17.5)	Near Consistent
Vunisea (Kadavu) (1931-2013)	<b>732.1</b>	612	834.7	753.5	38/77	31:34:35 (1.1)	Near Consistent
Ono-I-Lau (1943-2013)	<b>657.7</b>	495	689.5	613.5	38/65	31:34:35 (0.2)	Near Consistent
<b><i>Northern Division</i></b>							
Labasa Airfield (1956-2013)	<b>1103.8</b>	979.4	1307.1	1168.7	26/57	31: <b>42:27</b> (27.8)	Consistent
Nabouwalu (1918-2013)	<b>1089.1</b>	826.7	1061.6	941	66/96	26: <b>37:37</b> (13.6)	Near Consistent
Rotuma (1912-2013)	<b>1304.3</b>	925.3	1161.8	1044.4	82/100	26: <b>37:37</b> (8.4)	Near Consistent

***Below Normal Rainfall***  
***Normal Rainfall***  
***Above Normal Rainfall***

\*below normal/normal/above normal

<sup>1</sup>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 May to July 2013**

**Predictors used: SST 1 & 9 (Jan. to Mar. 2013)**

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
<b><i>Western Division</i></b>							
Penang Mill (1910-2013)	36	179	29	297.9	35	9	48.4
Lautoka Mill (1900-2013)	34	152.7	<b>38</b>	235.1	28	16.3	50
Nadi Airport (1942-2013)	31	141.7	<b>37</b>	247.2	32	9.3	48.4
Yasawa-I-Rara (1950-2013)	33	171.9	27	276.5	<b>40</b>	15.6	52.5
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2013)	<b>42</b>	439.9	34	613.2	24	12.9	45.3
Nausori Airport (1957-2013)	31	432.3	<b>41</b>	583.8	28	14.2	42.9
Tokotoko (Navua) (1945-2013)	<b>44</b>	581.5	33	782	23	14.1	48.4
<b><i>Eastern Division</i></b>							
Lakeba (1950-2013)	27	257.8	33	369.1	<b>40</b>	19.5	50
Vunisea (Kadavu) (1931-2013)	28	327.9	<b>49</b>	450.2	23	2	43.8
Ono-I-Lau (1943-2013)	<b>40</b>	237.4	27	374.6	33	5.7	47.5
<b><i>Northern Division</i></b>							
Labasa Airfield (1956-2013)	32	173.2	<b>34</b>	275.2	<b>34</b>	21	48.2
Nabouwalu (1918-2013)	28	319.5	<b>37</b>	444.3	<b>35</b>	18.3	48.4
Rotuma (1912 -2013)	25	690.9	<b>38</b>	871.6	<b>37</b>	1.1	41.3

**Table 4: Seasonal Climate Outlooks using POAMA 2 for May to July 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi					
Rotuma					

## **Summary Statement:**

### **March 2013 rainfall:**

For the month of March, *normal* rainfall were recorded at Penang and Nadi Airport in the Western Division, together with Nausori and Navua in the Central Division, while the rest of the stations recorded *above normal* rainfall.

### **January to March 2013 rainfall:** (Include a summary statement on verification)

During the last three months, rainfall over the last three months were *normal* over most (54%) of the stations, with the exception of Lautoka & Yasawa-I-Rara (Western Division), Nausori Airport (Central Division), Lakeba (Eastern Division) and Nabouwalu in the Northern Division, which recorded *above normal* rainfall.

There were no new records established on the last month's and last three months rainfall.

15.4% of the stations recorded consistent forecasts, while the rest had near- consistent forecasts.

### **Outlook for May to July 2013:**

The SCOPIC model generally favours;

**Western Division:** *normal* to *above normal* is favoured with the exception of Penang Mill

**Central Division:** *normal* to *below normal* favoured

**Eastern Division:** *above normal* favoured at Lakeba, *normal* at Vunisea and *below normal* at Ono-I-Lau

**Northern Division:** *normal* to *above normal* favoured

**Rotuma:** *Normal* to *above normal* favoured

The POAMA model outlook favours

**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:  $X \geq 35$