

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 128

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			April 2018				
	February 2018 Total	March 2018 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2017)	320.6	486.9	522.7	167	262	204	104/107
Lautoka Mill (1900-2017)	350.0	495.8	453.3	112	198	147	110/119
Nadi Airport (1942-2017)	529.7	412.5	344.4	116	208	149	70/76
Viwa (1978 -2017)	264.8	572.4	271.9	144	223	182	28/36
<i>Central Division</i>							
Lauçala Bay (Suva) (1942-2017)	312.8	316.8	341.0	271	338/77	324	44/77
Nausori Airport (1957-2017)	264.2	346.5	340.6	260	388	317	36/62
Tokotoko (Navua) (1945-2017)	291.8	276.4	394.2	304	454	347	44/73
<i>Eastern Division</i>							
Lakeba (1950-2017)	311.7	341.7	307.4	133	223	177	54/66
Vunisea (Kadavu) (1931-2017)	375.9	263.8	490.5	150	276	216	78/83
Ong-i-Lau (1943-2017)	-	-	294.0	104	2312	171	64/71
<i>Northern Division</i>							
Labasa Airport (1946-2017)	499.3	382.7	617.7	146	283	240	60/63
Savusavu Airfield (1956-2017)	187.3	281.1	260.3	141	274	207	38/62
Rotuma (1912-2017)	378.2	572.4	359.0	216	305	256	78/106

Period: \*below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall  
February to April 2018**

**Predictors and Period used: NINO3.4 SST Anomalies: November to December 2017**

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent or Inconsistent)
<b>Western Division</b>							
Penang Mill (1910-2017)	<b>1330.2</b>	827	1092	993	93/107	19:37: <b>44</b> (9.9)	Consistent
Lautoka Mill (1900-2017)	<b>1299.1</b>	681.3	934.0	809.7	116/118	21:38: <b>41</b> (6.9)	Consistent
Nadi Airport (1942-2017)	<b>1286.6</b>	663	910	797	68/75	18:36: <b>46</b> (15.4)	Consistent
Viwa (1978 -2017)	<b>1109.1</b>	591	757	691	<b>34/36</b>	14:37: <b>49</b> (15.7)	Consistent
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2017)	<b>970.6</b>	870	1061	946	48/77	32: <b>39:289</b> (-1.3)	Consistent
Nausori Airport (1957-2017)	<b>951.3</b>	894	1044	961	30/62	<b>37:35:28</b> (0)	Near-Consistent
Tokotoko (Navua) (1945-2017)	<b>962.4</b>	999	1207	1102	28/72	33: <b>39:28</b> (-0.9)	Near-consistent
<b>Eastern Division</b>							
Lakeba, Lau (1950-2017)	<b>960.8</b>	644	822	699	56/66	20: <b>40:40</b> (7.7)	Near-consistent
Vunisea (Kadavu) (1931-2017)	<b>1130.2</b>	631	827	735	79/82	18:40: <b>42</b> (10.3)	Consistent
Ono-i-lau (1943-2017)	-	475	708	585	-	27:32: <b>41</b> (2.1)	Unverified
<b>Northern Division</b>							
Labasa Airport (1956-2017)	<b>1499.7</b>	816	1143	1028	57/61	24: <b>38:38</b> (3.1)	Near-consistent
Savusavu Airfield (1956-2017)	<b>728.7</b>	639	835	697	31/59	26: <b>37:37</b> (1.5)	Near-consistent
Rotuma (1912-2017)	<b>1309.6</b>	898	1083	1005	48/105	29:33: <b>38</b> (0.3)	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).

M - Missing

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for  
June to August 2018- Tercile Method**

**Predictors and Period used: NINO3.4 SST Anomalies: March to April 2018**

<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 (1910-2017)	24	159	<b>40</b>	226	36	1.6	42.6
Lautoka Mill (1900-2017)	27	118	35	224	<b>38</b>	1.9	41.2
Nadi Airport (1942-2017)	24	116	37	208	<b>39</b>	3.6	42.6
Viwa (1978 -2017)	15	114	<b>52</b>	220	33	2.6	50
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2017)	28	366	33	508	<b>39</b>	1.4	41.2
Nausori Airport (1957-2017)	21	339	38	499	<b>41</b>	5.4	39.3
Tokotoko (Navua) (1945-2017)	27	500	30	668	<b>43</b>	5.4	36.9
<b><i>Eastern Division</i></b>							
Lakeba (1950-2017)	25	189	31	304	<b>44</b>	6.3	40.9
Vunisea (Kadavu) (1931-2017)	27	255	<b>37</b>	398	<b>36</b>	0.8	40.9
Ono-i-Lau (1943-2017)	29	250	<b>34</b>	344	<b>37</b>	0.6	36.5
<b><i>Northern Division</i></b>							
Labasa Airport (1956-2017)	26	114	<b>38</b>	181	36	0.9	41.7
Savusavu Airfield (1956-2017)	21	230	37	374	<b>42</b>	5.7	44.1
<b><i>Rotuma</i></b>							
Rotuma (1912 -2017)	<b>40</b>	596	30	787	30	1.9	45.3

## Seasonal Climate Outlook:

### June to August 2018 - Median Table:

**Predictors and Period used: NINO3.4 SST Anomalies: March to April 2018**

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS (%)	Hit-rate (%)
<b><i>Western Division</i></b>					
Penang Mill (1910-2017)	48	185	<b>52</b>	-1.2	54.4
Lautoka Mill (1900-2017)	<b>56</b>	169	44	1.4	57.4
Nadi Airport (1942-2017)	43	162	<b>57</b>	1.8	55.9
Viwa (1978 -2017)	37	169	<b>63</b>	3.2	58.3
<b><i>Central Division</i></b>					
Laucala Bay (Suva) (1942-2017)	45	436	<b>55</b>	0.6	52.9
Nausori Airport (1957-2017)	37	425	<b>63</b>	6.3	59.0
Tokotoko (Navua) (1945-2017)	40	578	<b>60</b>	5.8	55.4
<b><i>Eastern Division</i></b>					
Lakeba (1950-2017)	44	270	<b>56</b>	1.0	50.0
Vunisea (Kadavu) (1931-2017)	43	316	<b>57</b>	3.3	56.1
Ono-i-Lau (1943-2017)	43	288	<b>57</b>	2.0	58.7
<b><i>Northern Division</i></b>					
Labasa Airport (1956-2017)	43	146	<b>57</b>	1.0	58.3
Savusavu Airfield (1956-2017)	38	307	<b>62</b>	7.1	61.0
<b><i>Rotuma</i></b>					
Rotuma (1912 -2017)	<b>55</b>	706	45	0.6	60.9

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
June to August 2018**

<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>
Lakeba	<b>79</b>	184	15	299	6
Nadi	<b>85</b>	126	9	215	6
Nabouwalu	<b>82</b>	212	12	316	6
Udu Point	<b>76</b>	159	12	295	12
Vunisea	<b>85</b>	294	9	448	6
Suva	<b>85</b>	359	9	501	6
Rotuma	<b>67</b>	587	21	843	12

### **Summary Statements**

#### **Rainfall for April 2018:**

*Normal to above normal* rainfall was recorded across the country.

Labasa Airfield and Penang Mill managed to record their 4<sup>th</sup> highest April rainfall.

#### **Accumulated rainfall for February to April 2018, including outlook verification:**

*Normal to above normal* rainfall was recorded throughout the country.

Viwa managed to record its third highest February to April rainfall.

The rainfall outlooks were 'Consistent' at 8 sites, 'Near- Consistent' at 4 sites, while Ono-i-Lau could not be verified due to missing readings.

#### **Outlooks for June to August 2018:**

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

- **Western/Central/Eastern/Northern Divisions:** the outlook shows *above normal* as the most likely outcome with *normal* the next most likely. *Below normal* is the least likely;
- **Rotuma:** the outlook shows *below normal* as the most likely.

*Low to moderate confidence* in the Central, Eastern and Northern Division, and *low confidence* in the Western Division and at Rotuma.

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

*Below normal* rainfall is the favoured outcome.

**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:  $X \geq 35$