

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 127

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	March 2018						
	January 2018 Total	February 2018 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2017)	393.6	320.6	486.9	265	441	363	83/109
Lautoka Mill (1900-2017)	368.7	350.0	495.8	214	380	280	93/118
Nadi Airport (1942-2017)	335.2	529.7	412.5	240	406	319	51/75
Viwa (1978 -2017)	191.0	264.8	572.4	175	287	228	36/36
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	265.2	312.8	316.8	298	433	345	36/77
Nausori Airport (1957-2017)	413.8	264.2	346.5	298	440	358	30/62
Tokotoko (Navua) (1945-2017)	355.9	291.8	276.4	318	441	381	21/74
<i>Eastern Division</i>							
Lakeba (1950-2017)	152.3	311.7	341.7	212	331	256	47/68
Vunisea (Kadavu) (1931-2017)	167.7	375.9	263.8	214	303	274	39/82
Ono-i-Lau (1943-2017)	272.9	-	-	163	296	214	-
<i>Northern Division</i>							
Labasa Airport (1946-2017)	166.8	499.3	382.7	265	437	331	37/62
Savusavu Airfield (1956-2017)	157.7	187.3	281.1	184	273	229	42/61
Rotuma (1912-2017)	267.0	378.2	270.0	262	418	327	37/105

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
January to March 2018**

Predictors and Period used: NINO3.4 SST Anomalies: October to November 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)
<i>Western Division</i>							
Penang Mill (1910-2017)	1201.1	927	1184	1069	75/109	8:42:50 (34.5)	Consistent
Lautoka Mill (1900-2017)	1214.5	799	1069	946	91/118	16:37:47 (23.6)	Consistent
Nadi Airport (1942-2017)	1277.4	819	1092	938	58/75	18:38:44 (19.8)	Consistent
Viwa (1978 -2017)	1028.2	626	816	722	31/36	10:38:52 (32.3)	Consistent
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	894.8	842	1076	1012	30/77	32:32:36 (-0.4)	Near-consistent
Nausori Airport (1957-2017)	1024.5	880	1076	956	36/62	31:35:34 (-1.1)	Consistent
Tokotoko (Navua) (1945-2017)	924.1	926	1247	1087	25/73	31:37:32 (-1.1)	Near-consistent
<i>Eastern Division</i>							
Lakeba, Lau (1950-2017)	805.7	641	884	763	39/67	21:35:44 (17.1)	Near-consistent
Vunisea (Kadavu) (1931-2017)	807.4	618	836	744	51/82	27:36:37 (1.5)	Near-consistent
Ono-i-lau (1943-2017)	-	492	686	609	-	29:33:38 (1.4)	Unverified
<i>Northern Division</i>							
Labasa Airport (1956-2017)	1048.8	978	1303	1125	26/60	17:41:42 (15.6)	Near-consistent
Savusavu Airfield (1956-2017)	626.1	674	865	787	14/57	22:39:39 (7.6)	Near-consistent
Rotuma (1912-2017)	915.2	930	1163	1049	33/105	19:39:42 (19.0)	Inconsistent

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
May to July 2018 – Tercile Method**

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

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS (%)	Hit-rate (%)
<i>Western Division</i>							
Penang Mill (1910-2017)	18	179	35	296	47	11.2	51.5
Lautoka Mill (1900-2017)	13	151	39	234	48	18.0	47.1
Nadi Airport (1942-2017)	18	141	35	244	47	12.5	51.5
Viwa (1978 -2017)	10	173	43	253	47	16.6	45.7
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	15	440	36	611	49	14.7	47.1
Nausori Airport (1957-2017)	9	420	39	582	52	21.2	49.2
Tokotoko (Navua) (1945-2017)	16	564	32	756	52	20.5	53
<i>Eastern Division</i>							
Lakeba (1950-2017)	8	252	44	365	48	22.3	50.8
Vunisea (Kadavu) (1931-2017)	23	322	33	429	44	4.8	47.0
Ono-i-Lau (1943-2017)	16	223	36	364	48	14.1	51.6
<i>Northern Division</i>							
Labasa Airport (1956-2017)	12	155	34	259	54	19.0	45.9
Savusavu Airfield (1956-2017)	10	297	40	467	50	18.9	46.6
Rotuma (1912 -2017)	36	689	32	872	32	-1.5	30.8

Seasonal Climate Outlook:

May to July 2018 - Median Table:

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

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS (%)	Hit-rate (%)
<i>Western Division</i>					
Penang Mill (1910-2017)	34	247	66	10.3	63.2
Lautoka Mill (1900-2017)	29	194	71	18.8	70.6
Nadi Airport (1942-2017)	29	184	71	16.4	67.6
Viwa (1978 -2017)	31	194	69	15.3	68.6
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2017)	19	505	81	15.3	61.8
Nausori Airport (1957-2017)	34	501	66	30.4	73.8
Tokotoko (Navua) (1945-2017)	34	652	66	13.0	62.1
<i>Eastern Division</i>					
Lakeba (1950-2017)	34	320	66	10.3	52.3
Vunisea (Kadavu) (1931-2017)	43	377	57	0.6	54.5
Ono-i-Lau (1943-2017)	29	293	71	15.3	69.4
<i>Northern Division</i>					
Labasa Airport (1956-2017)	29	199	71	15.1	63.9
Savusavu Airfield (1956-2017)	24	365	76	22.8	74.1
<i>Rotuma</i>					
Rotuma (1912 -2017)	55	786	45	0	55.4

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
May to July 2018**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	58	214	15	368	27
Nadi	55	149	30	206	15
Nabouwalu	55	240	27	393	18
Udu Point	70	215	15	355	15
Vunisea	55	358	30	422	15
Suva	55	415	30	560	15
Rotuma	64	758	24	863	12

Summary Statements

Rainfall for March 2018:

Normal to above normal rainfall was recorded across the country, except for Navua, which recorded *below normal* rainfall.

Viwa managed to record its highest March total monthly rainfall, replacing a previous record established in 1985.

Accumulated rainfall for January to March 2018 & outlook verification:

Above normal rainfall was recorded at the Western Division, while the rest of the stations recorded *normal to below normal* rainfall.

The rainfall outlooks were 'Consistent' at 5 sites, 'Near-Consistent' at 6 sites, 'Inconsistent' at Rotuma, while Ono-i-Lau could not be verified due to missing readings.

Outlooks for May to July 2018:

SCOPIC:

The SCOPIC rainfall outlook for May to July 2018 shows:

- **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 offers little guidance, as the chances of *above normal*, *normal* and *below normal* are similar.

Good to high confidence in the Western and Central Division, moderate to high in the Eastern Division and very low confidence at Rotuma.

POAMA

The POAMA outlook shows:

- *Below normal* rainfall is the favoured outcome across the Fiji Group.

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: $X \geq 35$