Pacific Islands - Online Climate Outlook Forum (OCOF) No. 114

Country Name: Fiji
TABLE 1: Monthly Rainfall

Station (include data period)	December 2016 Total	January 2017 Total	February 2017				
			Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2017)	713.2	170.9	**512.7**	276	402	343	
Lautoka Mill (1900-2017)	217.6	182.4	**697.0**	219	370	275	
Nadi Airport (1942-2017)	269.9	314.1	**786.6**	219	345	278	
Viwa (1978 -2017)	561.6	208.8	**410.1**	163	275	221	
Central Division							
Laucala Bay (Suva) (1942-2017)	761.8	305.1	**351.3**	243	331	290	
Nausori Airport (1957-2017)	924.2	296.4	**433.8**	219	318	287	
Tokotoko (Navua) (1945-2017)	927.6	343.7	**562.8**	266	365	300	
Eastern Division							
Lakeba (1950-2017)	453.5	228.8	**525.1**	155	275	190	
Vunisea (Kadavu) (1931-2017)	299.4	392.8	**470.0**	153	262	225	
Ono-i-Lau (1943-2017)	273.5	148.9	**590.9**	125	210	174	
Northern Division							
Udu Point (1946-2017)	460.1	217.9	**494.0**	214	354	270	
Nabouwalu (1918-2017)	723.0	292.2	**626.4**	255	347	304	
Rotuma (1912-2017)	Missing	Missing	**752.1**	288	380	323	

Period: *below normal/normal/above normal

M - Missing

TABLE 2: Three-monthly Rainfall
December 2016 to February 2017
Predictors and Period used: NINO3.4 SST Anomalies: August to October 2016

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)
Western Division							
Penang Mill (1910-2017)	**1396.8**	782	1068	888		24/29/**47** (16.5)	Consistent
Lautoka Mill (1900-2017)	**1097.0**	607	923	782		13/36/**51** (26.4)	Consistent
Nadi Airport (1942-2017)	**1370.6**	645	906	840		17/35/**48** (22.3)	Consistent
Yasawa-i-rara (1950-2016)	**M**	491	779	665		13/33/**54** (40.2)	Unverified
Central Division							
Laucala Bay (Suva) (1942-2017)	**1418.2**	782	1020	869		29/33/**38** (-0.3)	Consistent
Nausori Airport (1957-2017)	**1654.4**	784	1002	831		32/**34/34** (-1.4)	Near Consistent
Tokotoko (Navua) (1945-2017)	**1834.1**	884	1131	993		**36**/30/34 (-0.2)	In consistent
Eastern Division							
Lakeba, Lau (1950-2017)	**1207.4**	566	745	645		13/38/**49** (21.5)	Consistent
Vunisea (Kadavu) (1931-2017)	**1162.2**	498	716	615		21/38/**41** (12.8)	Consistent
Ono-i-lau (1943-2017)	**1013.3**	439	586	502		23/37/**40** (9.0)	Consistent
Northern Division							
Labasa Airport (1956-2016)	**M**	787	1106	900		13/34/**53** (29.1)	Unverified
Rotuma (1912-2017)	**M**	901	1099	997		22/34/**44** (22.6)	Unverified

Period:* below normal/normal/above normal

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[*] 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 April to June 2017 – Tercile Method

Predictors and Period used: NINO3.4 SST Anomalies: December 2016 to February 2017

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS (%)	Hit-rate (%)
Western Division							
Penang Mill (1910-2017)	30	352	**35**	532	**35**	0.9	36.4
Lautoka Mill (1900-2017)	28	264	**36**	390	**36**	11.5	56.7
Nadi Airport (1942-2017)	28	257	**36**	376	**36**	9.1	53.7
Viwa (1978 -2017)	26	274	**35**	450	**39**	18.3	55.9
Central Division							
Laucala Bay (Suva) (1942-2017)	31	676	**34**	821	**35**	5.5	43.3
Nausori Airport (1957-2017)	27	646	**36**	778	**37**	8.7	45.0
Tokotoko (Navua) (1945-2017)	31	755	**34**	985	**35**	7.7	46.3
Eastern Division							
Lakeba (1950-2017)	29	342	35	500	**36**	6.1	43.9
Vunisea (Kadavu) (1931-2017)	28	457	**36**	605	**36**	7.4	53.0
Ono-i-Lau (1943-2017)	23	317	**39**	466	**38**	14.0	32.3
Northern Division							
Udu Point (1946-2017)	29	426	**36**	620	**35**	2.4	43.1
Nabouwalu (1918-2017)	25	485	**38**	659	**37**	17.2	50.8
Rotuma (1912 -2017)	**34**	744	**33**	919	**33**	-1.7	1.5

Seasonal Climate Outlook:

April to June 2017 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: December 2016 to February 2017

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
Western Division					
Penang Mill (1910-2017)	49	423	**51**	-0.5	56.1
Lautoka Mill (1900-2017)	46	324	**54**	8.5	65.7
Nadi Airport (1942-2017)	47	314	**53**	6.7	64.2
Viwa (1978 -2017)	40	391	**60**	22.2	76.5
Central Division					
Laucala Bay (Suva) (1942-2017)	47	732	**53**	4.6	56.7
Nausori Airport (1957-2017)	46	706	**54**	6.5	61.7
Tokotoko (Navua) (1945-2017)	47	869	**53**	6.2	61.2
Eastern Division					
Lakeba (1950-2017)	47	424	**53**	4.3	62.1
Vunisea (Kadavu) (1931-2017)	47	540	**53**	4.7	66.7
Ono-i-Lau (1943-2017)	47	406	**54**	5.1	64.5
Northern Division					
Udu Point (1946-2017)	49	517	**52**	0.1	56.9
Nabouwalu (1918-2017)	47	545	**53**	15..4	72.3
Rotuma (1912 -2017)	**51**	836	49	-1.1	47.0

Summary Statements

Rainfall for February 2017:

Majority of the stations in Fiji received *above normal* to *well above normal* rainfall during February 2017.

Accumulated rainfall for December 2016 to February 2017 & outlook verification:
Due to a number of tropical depression affecting Fiji during the December to February period, the accumulated rainfall over the last three months was *above normal* at most of the stations.

Verification of the 3-month rainfall
For the December 2016 to February 2017 period, the rainfall outlooks were consistent at seven of the twelve sites and near- consistent at one site, inconsistent at one site while the outlook for three stations could not be verified due to missing record.

Outlooks for April to June 2017:

SCOPIC:
Western Division: *near equal likelihood of normal and above normal rainfall,* moderate to good skill;
Central Division: The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar. moderate skill;
Eastern Division: *near equal likelihood of normal and above normal rainfall*. Skill range from *moderate to good*;
Northern Division: *near equal likelihood of normal and above normal rainfall*. Low to good skill;
Rotuma: *climatological* outlook favoured; Very low skill.

NB: The X LEPS % score has been categorised as follows:
Very Low: X < 0.0   Low: 0 ≤ X < 5   Moderate 5 ≤ X < 10   Good: 10 ≤ X< 15   High: 15≤ X < 25

Very High : 25 ≤X < 35   Exceptional: X ≥ 35