# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 152

Country: Fiji

**TABLE 1: Monthly Rainfall** 

	Feb-2020	Mar-2020	Apr-2020						
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank		
	Total (mm)	Rainfall (mm)							
		Weste	ern Division						
Penang Mill (1910-2020)	176.8	447.4	162.6	179.4	288.9	212.0	21/70		
Lautoka Mill (1900-2020)	245.6	594.1	237.2	123.0	239.7	157.9	88/121		
Nadi Airport (1942-2020)	116.8	785.4	177.2	112.9	211.6	151.9	44/78		
Central Division									
Laucala Bay (Suva) (1942-2020)	86.4	436.4	772.5	263.5	376.3	327.0	76/79		
Nausori Airport (1957-2020)	119.1	716.9	685.0	262.0	389.2	327.0	61/64		
Tokotoko (Navua) (1945-2020)	94.0	524.2	1085.2	305.5	460.0	358.4	75/76		
		Easte	rn Division						
Lakeba (1950-2020)	191.2	209.4	436.0	133.0	255.4	179.1	63/68		
Vunisea (Kadavu) (1931-2020)	103.6	575.1	505.7	162.8	277.1	238.0	80/85		
Ono-i-Lau (1943-2020)	35.1	363.7	358.2	103.3	223.9	181.2	67/73		
Northern Division									
Labasa Airport (1946-2020)	163.6	298.9	163.9	145.2	286.8	240.4	24/65		
Savusavu Airfield (1956-2020)	114.0	101.7	275.9	141.7	278.7	214.4	42/64		
Udu Point	162.0	294.9	218.4	193.5	302.2	236.3	30/71		
Rotuma (1912-2020)	194.8	352.0	188.5	207.9	302.8	257.1	29/108		

**TABLE 2: Three-month Rainfall for February to April 2020** 

Station	Three-r	month Total	33%tile	67%tile	Median	Rank	i		st probabiliti vember-Dece		Verification: Consistent, Near-consistent,
Rainfall (mm)					•		B-N	N	A-N	LEPS	Inconsistent?
Western Division											
Penang Mill (1910-2020)	786.8	Below normal	842.9	1143.3	1015.1	31/110	42	34	24	8	Consistent
Lautoka Mill (1900-2020)	1076.9	Above normal	743.8	946.8	831.1	95/120	43	30	27	8	Inconsistent
Nadi Airport (1942-2020)	1079.4	Above normal	676.6	945.9	808.6	61/77	43	37	20	14	Inconsistent
Central Division											
Laucala Bay (Suva) (1942-2020)	1295.3	Above normal	851.0	1055.9	938.6	66/79	35	27	38	-1	Consistent
Nausori Airport (1957-2020)	1521.0	Above normal	893.9	1045.3	960.5	61/64	30	33	37	1	Consistent
Tokotoko (Navua) (1945-2020)	1703.4	Above normal	999.0	1210.9	1111.2	72/75	34	28	38	-1	Consistent
	Eastern Division										
Lakeba (1950-2020)	836.6	Above normal	649.4	824.6	708.8	48/68	42	32	26	9	Inconsistent
Vunisea (Kadavu) (1931-2020)	1184.4	Above normal	645.2	835.5	755.3	81/84	43	29	28	9	Inconsistent
Ono-i-Lau (1943-2020)	757.0	Above normal	480.2	740.1	595.9	51/71	38	33	29	2	Inconsistent
	Northern Division										
Labasa Airport (1947-2020)	626.4	Below normal	798.4	1159.2	1028.0	10/63	40	31	29	4	Consistent
Savusavu Airfield (1957-2020)	491.6	Below normal	639.0	829.7	697.2	8/61	38	31	31	1	Consistent
Udu Point	675.3	Below normal	782.7	1022.7	851.6	14/71	37	34	29	0	Consistent
Rotuma (1912-2020)	735.3	Below normal	872.4	1075.7	995.6	17/107	36	34	30	0	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for June to August 2020 Predictor and Period used: NINO3.4 for March to April 2020

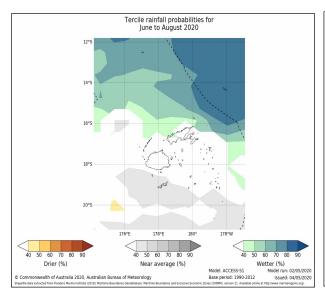
Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)	LEPS (%) [whole numbers	(%) [whole
		West	ern Division		
Penang Mill (1910-2020)	54	192.0	46	-1	56
Lautoka Mill (1900-2020)	62	151.2	38	4	61
Nadi Airport (1942-2020)	59	161.9	41	2	56
		Cent	ral Division		
Laucala Bay (Suva) (1942-2020)	56	436.2	44	1	53
Nausori Airport (1957-2020)	62	424.6	38	4	59
Tokotoko (Navua) (1945-2020)	61	563.6	39	5	54
		Easte	ern Division		
Lakeba (1950-2020)	58	270.1	42	1	50
Vunisea (Kadavu) (1931-2020)	56	348.4	44	0	50
Ono-i-Lau (1943-2020)	59	288.2	41	2	59
		North	ern Division		
Labasa Airport (1946-2020)	55	145.6	45	0	57
Savusavu Airfield (1956-2020)	60	306.8	40	4	59
Udu Point	64	308.8	36	7	58
Rotuma (1912-2020)	43	697.2	57	1	60

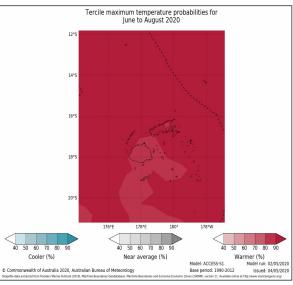
Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
Western Division									
Penang Mill (1910-2020)	40	165.9	30	226.4	30	0	26		
Lautoka Mill (1900-2020)	38	113.4	36	211.8	26	0	37		
Nadi Airport (1942-2020)	43	115.5	33	204.5	24	3	43		
		Centr	al Division						
Laucala Bay (Suva) (1942-2020)	39	365.8	36	525.9	25	1	39		
Nausori Airport (1957-2020)	44	337.5	31	496.8	25	4	40		
Tokotoko (Navua) (1945-2020)	41	474.4	37	653.1	22	4	38		
		Easte	rn Division						
Lakeba (1950-2020)	42	187.2	37	301.0	21	5	38		
Vunisea (Kadavu) (1931-2020)	39	277.6	31	423.1	30	0	19		
Ono-i-Lau (1943-2020)	40	250.9	33	342.4	27	1	37		
	Northern Division								
Labasa Airport (1946-2020)	39	113.0	29	184.2	32	-1	36		
Savusavu Airfield (1956-2020)	45	230.5	31	372.4	24	6	46		
Udu Point	43	250.6	36	388.6	21	6	42		
Rotuma (1912-2020)	24	585.6	36	818.0	40	2	46		

# Monthly and Seasonal Climate Outlooks using ACCESS-S for June to August 2020

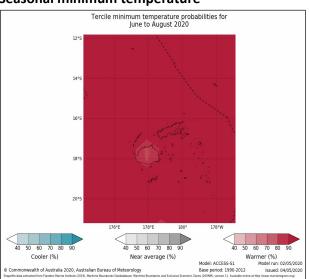
#### **Seasonal Rainfall**

# Seasonal maximum temperature

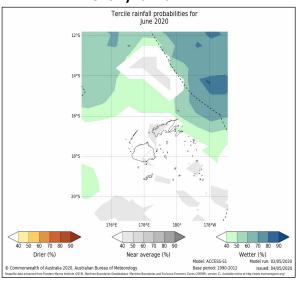




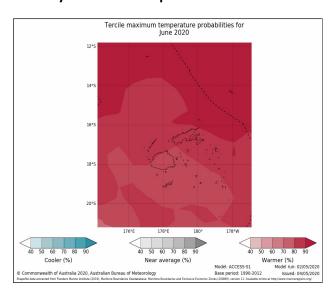
#### Seasonal minimum temperature



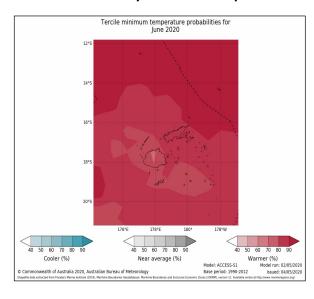
## Monthly rainfall



# Monthly maximum temperature



# Monthly minimum temperature



# **Summary Statements**

#### Rainfall for April 2020:

Above normal rainfall was recorded across the Central and Eastern Division, normal rainfall in the Northern Division and parts of the Western Division, while Penang in the Western Division and Rotuma were the only two stations with below normal rainfall.

All stations in the Central and Eastern Division recorded rainfall above 90 percentile. Navua and Nausori recorded the second and fourth wettest April on record.

#### Accumulated rainfall for February to April 2020, including outlook verification:

Above normal rainfall were recorded across the Central and Eastern Division and parts of the Western Division, while below normal rainfall were recorded in the Northern Division, Penang Mill in the Western Division and Rotuma. Nausori, Navua and Vunisea recorded their fourth wettest February to April rainfall on record.

The rainfall outlooks were 'Consistent' at eight sites and 'Inconsistent' at five sites.

#### Outlooks for June to August 2020:

#### 1. SCOPIC:

- Western, Central, Eastern and Northern Division (except for Lautoka, Vunisea and Labasa): The outlook shows below normal rainfall as the most likely outcome, with near normal as the next most likely and above normal as the least likely.
- **Rotuma:** The outlook shows *above normal* as the most likely outcome, with *normal* the next most likely. Below normal is the least likely.
- Lautoka: The outlook shows a near-equal likelihood of below normal and normal rainfall. Above normal is the least likely
- Vunisea and Labasa: The outlook offers little guidance as the chances f of above normal, normal and below normal are similar

#### 2. ACCESS-S:

#### Seasonal rainfall (June to August 2020):

Near average rainfall is favoured in most parts of the country, with above average rainfall likely at Rotuma.

#### Seasonal maximum and Minimum temperature (June to August 2020):

Warmer than average maximum and minimum air temperatures likely across the Fiji region.

#### Monthly rainfall (June 2020):

Near average rainfall favoured in most of the Fiji region, with above average rainfall likely at Rotuma.

## Monthly maximum and minimum temperatures (June 2020):

A Warmer than average month is favoured across the Fiji region.

NB: The X LEPS % score has been categorised as follows:

 $Very \ Low: \ X < 0.0 \\ Low: \ 0 \le X < 5 \\ Moderate \ 5 \le X < 10 \\ Good: \ 10 \le X < 15 \\ High: \ 15 \le X < 25 \\$ 

 Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: April 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/04/20	General public	140	106	34
EAR Watch	07/04/20	Humanitarian partners	122	96	26
Climate Outlook for Monasavu	09/04/20	Energy Fiji Limited	13	13	-
Fiji Climate Outlook	15/04/20	General public	124	93	31
Ocean Outlook	16/04/20	Reef Explorer Fiji Limited, Maritime Safety Authority of Fiji, World Wildlife Fund, Wildlife Conservation Society, Ministry of Fisheries and Tourism Sector	36	29	7
Fiji Sugarcane Climate Outlook	24/04/20	Sugar Industry stakeholders	77	60	17
Meteorological Data Request	01/04/20 to 30/04/20	A range of stakeholders	41	31	10
		Total	553	428	125