

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 156

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2020	Jul-2020	Aug-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
<i>Western Division</i>							
Penang Mill (1910-2020)	53.1	2.0	40.0	36.2	74.6	51.4	40/111
Lautoka Mill (1900-2020)	66.9	74.9	20.6	21.6	62.3	39.2	34/121
Nadi Airport (1942-2020)	32.5	59.7	17.3	24.6	66.3	49.0	19/79
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2020)	208.1	88.8	69.1	90.9	149.8	126.3	16/79
Nausori Airport (1957-2020)	206.8	84.9	95.4	89.9	165.2	114.8	26/64
Tokotoko (Navua) (1945-2020)	328.5	128.3	74.1	131.3	207.3	169.2	10/75
<i>Eastern Division</i>							
Lakeba (1950-2020)	75.1	158.1	61.8	49.1	95.3	72.9	30/71
Vunisea (Kadavu) (1931-2020)	183.7	132.5	65.5	61.0	128.6	86.2	33/84
Ono-i-Lau (1943-2020)	97.4	99.1	88.5	54.0	107.4	86.8	41/73
<i>Northern Division</i>							
Labasa Airport (1946-2020)	39.2	24.9	22.2	13.7	63.2	47.7	26/64
Savusavu Airfield (1956-2020)	83.7	30.9	80.2	59.9	103.0	81.6	32/65
Udu Point ((1946-2020)	210.0	168.8	102.0	40.2	104.7	78.8	46/71
Rotuma (1912-2020)	258.6	517.6	178.1	129.1	235.1	171.8	44/105

TABLE 2: Three-month Rainfall for June to August 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 March-April 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Western Division</i>											
Penang Mill (1910-2020)	95.1	Below normal	165.9	226.4	192.0	19/111	40	30	30	0	Consistent
Lautoka Mill (1900-2020)	162.4	Normal	113.4	211.8	151.2	60/121	38	36	26	0	Near-consistent
Nadi Airport (1942-2020)	109.5	Below normal	115.5	204.5	161.9	25/79	43	33	24	3	Consistent
<i>Central Division</i>											
Laucala Bay (Suva) (1942-2020)	366.0	Normal	365.8	525.9	436.2	28/79	39	36	25	1	Near-consistent
Nausori Airport (1957-2020)	387.1	Normal	337.5	496.8	424.6	28/64	44	31	25	4	Near-consistent
Tokotoko (Navua) (1945-2020)	530.9	Normal	474.4	653.1	563.6	31/74	41	37	22	4	Near-consistent
<i>Eastern Division</i>											
Lakeba (1950-2020)	295.0	Normal	187.2	301.0	270.1	43/69	42	37	21	5	Near-consistent
Vunisea (Kadavu) (1931-2020)	381.7	Normal	277.6	423.1	348.4	52/82	39	31	30	0	Near-consistent
Ono-i-Lau (1943-2020)	285.0	Normal	250.9	342.4	288.2	35/70	40	33	27	1	Near-consistent
<i>Northern Division</i>											
Labasa Airport (1947-2020)	86.3	Below normal	113.0	184.2	145.6	16/63	39	29	32	-1	Consistent
Savusavu Airfield (1957-2020)	194.8	Below normal	230.5	372.4	306.8	10/62	45	31	24	6	Consistent
Udu Point (1946-2020)	480.8	Above normal	250.6	388.6	308.8	66/70	43	36	21	6	Inconsistent
Rotuma (1912-2020)	954.3	Above normal	585.6	818.0	697.2	87/103	24	36	40	2	Consistent

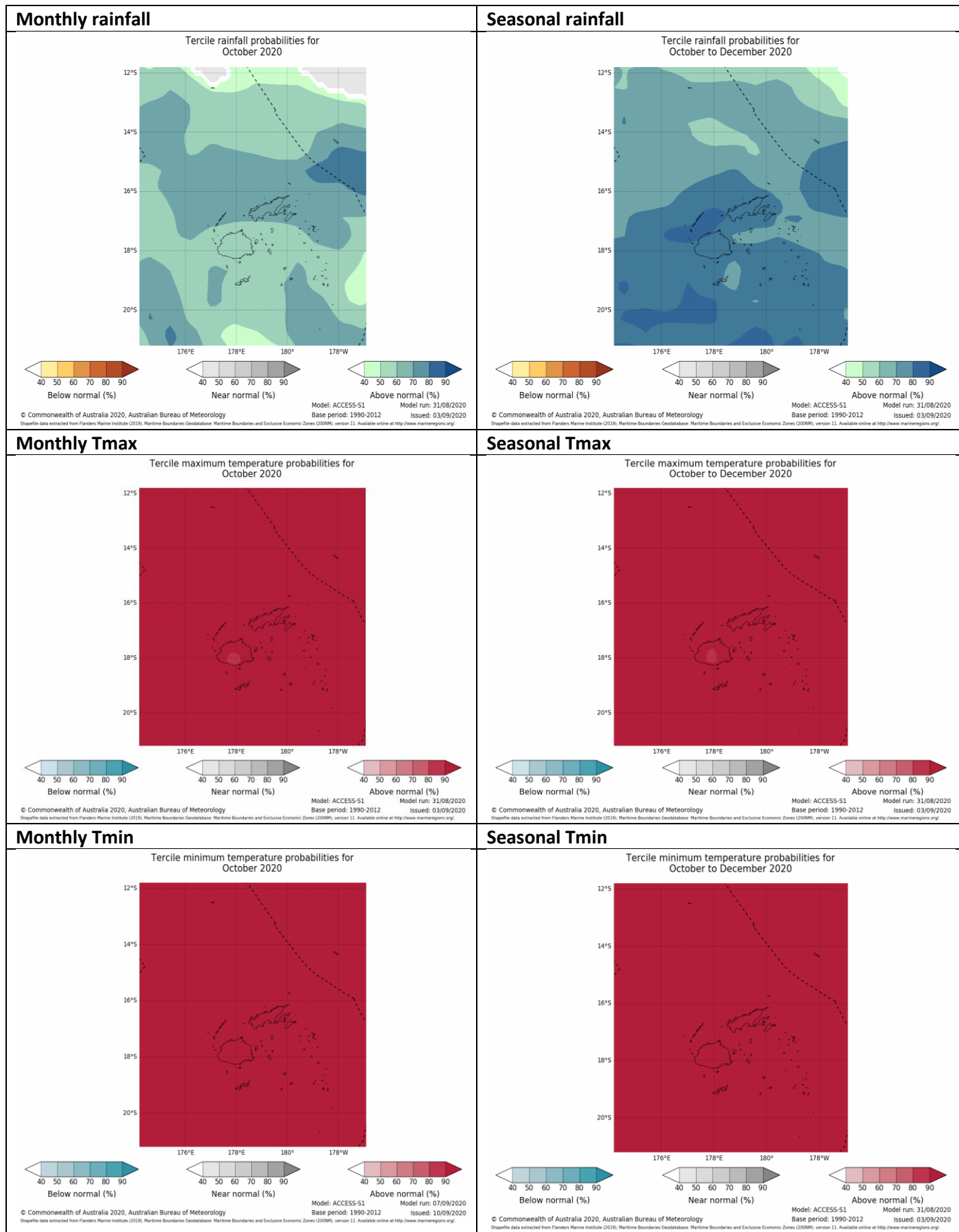
TABLE 3: Seasonal Climate Outlooks using SCOPIC for October to December 2020

Predictor and Period used: NINO3.4 for July to August 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2020)	43	462.0	57		14	69
Lautoka Mill (1900-2020)	41	359.4	59		21	71
Nadi Airport (1942-2020)	40	378.2	60		24	71
Central Division						
Laucala Bay (Suva) (1942-2020)	46	761.6	54		5	60
Nausori Airport (1957-2020)	45	716.9	55		6	57
Tokotoko (Navua) (1945-2020)	44	884.0	56		12	65
Eastern Division						
Lakeba (1950-2020)	43	424.8	57		12	68
Vunisea (Kadavu) (1931-2020)	42	465.4	58		21	66
Ono-i-Lau (1943-2020)	34	347.6	66		37	82
Northern Division						
Labasa Airport (1946-2020)	36	482.7	64		24	71
Savusavu Airfield (1956-2020)	40	521.2	60		17	66
Udu Point (1946-2020)	48	629.1	52		1	52
Rotuma (1912-2020)	46	948.3	54		6	59

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)	25	347.0	37	586.6	38	14	48
Lautoka Mill (1900-2020)	20	296.3	41	438.8	39	24	47
Nadi Airport (1942-2020)	22	328.4	39	492.0	39	19	49
Central Division							
Laucala Bay (Suva) (1942-2020)	30	557.5	34	890.5	36	3	41
Nausori Airport (1957-2020)	27	573.0	35	905.0	38	7	40
Tokotoko (Navua) (1945-2020)	28	755.4	35	1041.7	37	7	45
Eastern Division							
Lakeba (1950-2020)	26	341.3	37	535.0	37	11	41
Vunisea (Kadavu) (1931-2020)	28	313.7	35	535.1	37	13	54
Ono-i-Lau (1943-2020)	20	222.0	40	416.9	40	22	58
Northern Division							
Labasa Airport (1946-2020)	19	361.0	37	588.1	44	25	54
Savusavu Airfield (1956-2020)	23	424.5	38	648.0	39	12	40
Udu Point (1946-2020)	29	543.7	36	736.6	35	2	37
Rotuma (1912-2020)	30	818.0	35	1059.7	35	1	27

Table 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for October to December 2020



Summary Statements

Rainfall for August 2020:

Rainfall over the Fiji Group was *near normal* to *below normal* during August 2020. Most of stations in the Western and Central Divisions registered *below normal* rainfall, while *near normal* rainfall was recorded across the Eastern and Northern Divisions, and at Rotuma.

Accumulated rainfall for June to August 2020, including outlook verification:

Above normal rainfall was recorded at Udu Point in the Northern Division and at Rotuma, while *near normal* rainfall was recorded across the Central and Eastern Divisions and at Lautoka Mill in the Western Division. Penang Mill, Nadi Airport, Labasa Airport and Savusavu Airfield received *below normal* rainfall.

It was the fifth wettest June to August period on record at Udu Point.

The rainfall outlooks were 'Consistent' at five sites, 'Near Consistent' at seven sites and 'Inconsistent' at one site.

Outlooks for October to December 2020:

1. SCOPIC:

- **Labasa Airport (Northern Division):** The outlook shows *above normal* rainfall as the most likely outcome, with *near normal* the next most likely. *Below normal* rainfall is least likely.
- **Western Division, Nausori Airport (Central Division), Savusavu Airfield (Northern Division), and Ono-i-Lau and Lakeba (Eastern Division):** The outlook shows a near equal likelihood of *above normal* and *near normal* rainfall. *Below normal* rainfall is least likely.
- **Laucala Bay (Suva) and Tokotoko (Central Division), Vunisea (Eastern Division), Udu Point (Northern Division), and Rotuma:** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

2. ACCESS-S:

Monthly rainfall:

- **All regions:** *Above normal* rainfall is favoured across Fiji in October.

Monthly maximum and minimum temperatures:

- **Western, Central, Eastern and Northern Division, and Rotuma:** Maximum and minimum air temperatures are favoured to be *above normal* across the Fiji Group in October.

Seasonal rainfall:

- **Western, Central, Eastern and Northern Division, and Rotuma:** *Above normal* rainfall favoured across the Fiji Group for October to December.

Seasonal maximum and minimum temperatures:

- **Western, Central, Eastern and Northern Division, and Rotuma:** Maximum and minimum air temperatures are favoured to be *above normal* across the Fiji Group for the coming three months.

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: $X \geq 35$

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

Product	Date: August 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/08/20	General public	140	106	34
EAR Watch	04/08/20	Humanitarian partners	122	96	26
Fiji Climate Outlook	11/08/20	General public	124	93	31
Climate Outlook for Monasavu	11/08/20	Energy Fiji Limited	13	13	-
Ocean Outlook	20/08/20	A number of key ocean related stakeholders	36	29	7
Meteorological Data Request	01/08/20 to 31/08/20	A range of stakeholders	41	36	5
Total			476	373	103