

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 155

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	May-2020	Jun-2020	Jul-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2020)	248.1	53.1	2.0	23.7	55.8	35.3	5/111
Lautoka Mill (1900-2020)	187.8	66.9	74.9	14.2	54.6	32.8	95/121
Nadi Airport (1942-2020)	156.1	32.5	59.7	15.6	65.0	33.1	52/79
Central Division							
Laucala Bay (Suva) (1942-2020)	238.0	208.1	88.8	96.2	158.8	126.6	28/79
Nausori Airport (1957-2020)	196.6	206.8	84.9	94.0	134.6	119.8	18/64
Tokotoko (Navua) (1945-2020)	203.1	328.5	128.3	145.3	213.0	174.3	20/75
Eastern Division							
Lakeba (1950-2020)	86.6	75.1	158.1	47.7	80.1	57.4	61/69
Vunisea (Kadavu) (1931-2020)	76.1	183.7	132.5	83.8	125.9	96.3	59/83
Ono-i-Lau (1943-2020)	202.1	97.4	99.1	59.2	109.4	73.0	47/73
Northern Division							
Labasa Airport (1946-2020)	132.6	39.2	24.9	20.3	46.1	32.8	26/65
Savusavu Airfield (1956-2020)	263.6	83.7	30.9	54.6	106.1	83.2	13/65
Udu Point	303.2	210.0	168.8	62.2	94.4	79.4	63/71
Rotuma (1912-2020)	140.0	258.6	517.6	153.8	258.9	216.9	104/105

**TABLE 2: Three-month Rainfall for May to July 2020**

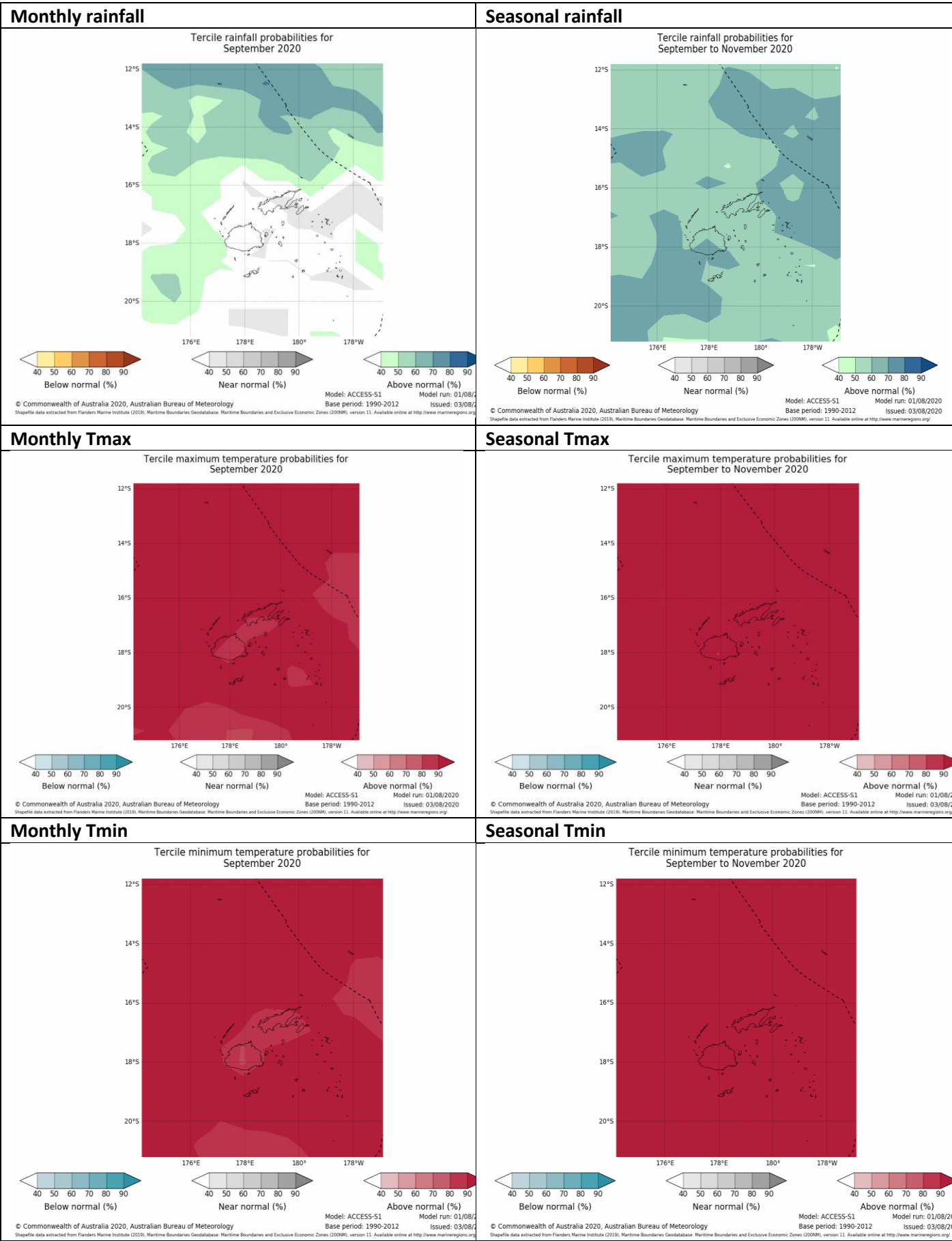
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 February-March 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2020)	303.2	Above normal	165.0	301.1	252.8	77/111	46	34	20	14	Inconsistent
Lautoka Mill (1900-2020)	329.6	Above normal	139.7	218.2	175.9	108/121	48	31	21	19	Inconsistent
Nadi Airport (1942-2020)	248.3	Above normal	140.4	238.7	174.5	55/78	44	34	22	13	Inconsistent
Central Division											
Laucala Bay (Suva) (1942-2020)	534.9	Normal	444.1	614.5	507.8	44/79	45	35	20	15	Near-consistent
Nausori Airport (1957-2020)	488.3	Normal	427.3	580.1	501.4	29/64	46	33	21	20	Near-consistent
Tokotoko (Navua) (1945-2020)	659.9	Normal	551.8	742.9	641.1	40/75	48	34	18	21	Near-consistent
Eastern Division											
Lakeba (1950-2020)	319.8	Normal	247.0	363.6	318.4	36/68	47	31	22	19	Near-consistent
Vunisea (Kadavu) (1931-2020)	392.3	Normal	339.8	450.4	391.3	44/82	38	36	26	2	Near-consistent
Ono-i-Lau (1943-2020)	398.6	Above normal	236.9	370.5	312.0	53/69	44	34	22	13	Inconsistent
Northern Division											
Labasa Airport (1947-2020)	196.7	Normal	153.4	262.5	199.0	32/64	44	35	21	14	Near-consistent
Savusavu Airfield (1957-2020)	378.2	Normal	296.6	453.4	364.6	33/61	44	33	23	16	Near-consistent
Udu Point	682.0	Above normal	302.7	465.9	367.2	65/70	41	31	28	5	Inconsistent
Rotuma (1912-2020)	916.2	Above normal	689.8	877.6	792.6	79/104	31	33	36	-1	Consistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2020****Predictor and Period used: NINO3.4 for June to July 2020**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Western Division</b>						
Penang Mill (1910-2020)	46	292.4	54		18	72
Lautoka Mill (1900-2020)	46	279.8	54		18	73
Nadi Airport (1942-2020)	46	295.7	54		19	70
<b>Central Division</b>						
Laucala Bay (Suva) (1942-2020)	49	653.0	51		2	59
Nausori Airport (1957-2020)	47	600.3	53		5	57
Tokotoko (Navua) (1945-2020)	46	773.1	54		22	75
<b>Eastern Division</b>						
Lakeba (1950-2020)	49	331.2	51		9	66
Vunisea (Kadavu) (1931-2020)	48	406.2	52		12	64
Ono-i-Lau (1943-2020)	47	294.5	53		13	71
<b>Northern Division</b>						
Labasa Airport (1946-2020)	44	303.7	56		14	68
Savusavu Airfield (1956-2020)	45	425.2	55		15	71
Udu Point	49	497.5	51		3	57
Rotuma (1912-2020)	51	887.1	49		0	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]
<b>Western Division</b>							
Penang Mill (1910-2020)	29	245.0	37	404.7	34	15	46
Lautoka Mill (1900-2020)	28	198.0	39	345.9	33	19	49
Nadi Airport (1942-2020)	25	240.9	42	342.9	33	26	49
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2020)	31	471.7	35	781.4	34	6	43
Nausori Airport (1957-2020)	30	436.4	35	736.5	35	9	40
Tokotoko (Navua) (1945-2020)	27	643.3	40	937.2	33	24	52
<b>Eastern Division</b>							
Lakeba (1950-2020)	32	286.0	36	410.2	32	11	49
Vunisea (Kadavu) (1931-2020)	30	343.9	37	452.0	33	11	52
Ono-i-Lau (1943-2020)	27	207.2	37	375.8	36	14	48
<b>Northern Division</b>							
Labasa Airport (1946-2020)	25	258.1	38	367.4	37	20	49
Savusavu Airfield (1956-2020)	21	368.5	41	511.5	38	25	55
Udu Point	31	385.8	35	566.5	34	2	29
Rotuma (1912-2020)	34	728.3	34	967.2	32	-1	40

# Monthly and Seasonal Climate Outlooks using ACCESS-S for September to November 2020



## **Summary Statements**

### **Rainfall for July 2020:**

Rainfall varied across the country during the month. *Below normal* rainfall was recorded across the Central Division, at Penang Mill in the Western Division, and at Savusavu Airfield in the Northern Division. On the other hand, *above normal* rainfall was registered at Lautoka in the Western Division, Lakeba and Vunisea in the Eastern Division, Udu Point in the Northern Division and Rotuma. *Near normal* rainfall was received at Nadi Airport in the Western Division, Ono-i-Lau in the Eastern Division and Labasa Airport in the Northern Division.

It was a second wettest July on record at Rotuma, while it was fifth driest July on record at Penang Mill.

### **Accumulated rainfall for May to July 2020, including outlook verification:**

Rainfall across the Fiji Group was *near normal* or *above normal* during the May to July 2020 period. *Near normal* rainfall was recorded across the Central Division, Lakeba and Vunisea in the Eastern Division, and Labasa Airport and Savusavu Airfield in the Northern Division. *Above normal* rainfall was registered across the Western Division, Ono-i-Lau in the Eastern Division, Udu Point in the Northern Division and at Rotuma.

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

### **Outlooks for September to November 2020:**

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

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

#### **2. ACCESS-S:**

##### **Monthly rainfall (September 2020):**

- **Central, Northern, Western and Eastern Divisions:** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* rainfall are similar;
- **Rotuma:** *above normal* rainfall is favoured.

##### **Monthly maximum and minimum temperatures (September 2020):**

- **Western, Central, Eastern and Northern Division, and Rotuma:** A *Warmer than normal* month favoured.

##### **Seasonal rainfall (September to November 2020):**

- **Central, Northern, Western and Eastern Divisions, and Rotuma:** *Wetter* than normal season favoured.

##### **Seasonal maximum and temperatures (September to November 2020):**

- **Western, Central, Eastern and Northern Divisions, and Rotuma:** A *Warmer than normal* season favoured.

**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:  $X \geq 35$

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

<b>Product</b>	<b>Date: July 2020</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Stakeholder consultation to develop formal partnership agreement	16/07/20-17/07/20	Water Authority of Fiji, Ministry of Agriculture, Fiji Hotel & Tourism Ass., University of the South Pacific, Energy Fiji Limited, Fiji Ports Corporation, Maritime Safety Authority of Fiji, Ministry of Health, Ministry of Environment and Waterways, Fiji Roads Authority, Fiji Sugar Corporation Ltd., Sugar Research Institute of Fiji, Fiji Airports Ltd., Civil Aviation Authority of Fiji, Fiji Navy, Ministry of Infrastructure & Meteorological Service	16	12	4
Meeting with Energy Fiji Ltd on climate services for hydro-electricity generation	24/07/20	Energy Fiji Ltd BoM	9	7	2
Fiji Climate Summary	07/07/20	General public	140	106	34
EAR Watch	04/07/20	Humanitarian partners	122	96	26
Fiji Climate Outlook	10/07/20	General public	124	93	31
Climate Outlook for Monasavu	09/07/20	Energy Fiji Limited	13	13	-
Ocean Outlook	20/07/20	A number of key ocean related stakeholders	36	29	7
Fiji Sugarcane Climate Outlook	24/07/20	Sugar Industry stakeholders	77	60	17
Meteorological Data Request	01/07/20 to 31/07/20	A range of stakeholders	50	43	7
<b>Total</b>			<b>587</b>	<b>459</b>	<b>128</b>