

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 157

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2020	Aug-2020	Sep-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2020)	2.0	40.0	50.6	38.1	97.0	60.6	44/110
Lautoka Mill (1900-2020)	74.9	20.6	32.9	31.6	86.9	57.1	43/121
Nadi Airport (1942-2020)	59.7	17.3	50.5	36.3	88.9	62.6	38/79
Central Division							
Laucala Bay (Suva) (1942-2020)	88.8	69.1	232.2	122.4	220.8	148.6	53/79
Nausori Airport (1957-2020)	84.9	95.4	246.7	110.2	200.5	145.2	51/64
Tokotoko (Navua) (1945-2020)	128.3	74.1	294.5	157.4	288.1	215.2	52/75
Eastern Division							
Lakeba (1950-2020)	158.1	61.8	162.5	67.5	119.8	89.7	58/71
Vunisea (Kadavu) (1931-2020)	132.5	65.5	145.1	90.3	167.7	131.6	53/83
Ono-i-Lau (1943-2020)	99.1	88.5	159.5	71.1	116.9	91.9	56/73
Northern Division							
Labasa Airport (1946-2020)	24.9	22.2	67.0	37.0	82.6	59.6	36/63
Savusavu Airfield (1956-2020)	30.9	80.2	190.2	79.3	130.8	102.8	53/63
Udu Point (1946-2020)	168.8	102.0	179.9	72.0	145.7	107.6	57/71
Rotuma (1912-2020)	517.6	178.1	501.9	169.5	270.0	210.5	98/104

TABLE 2: Three-month Rainfall for July to September 2020

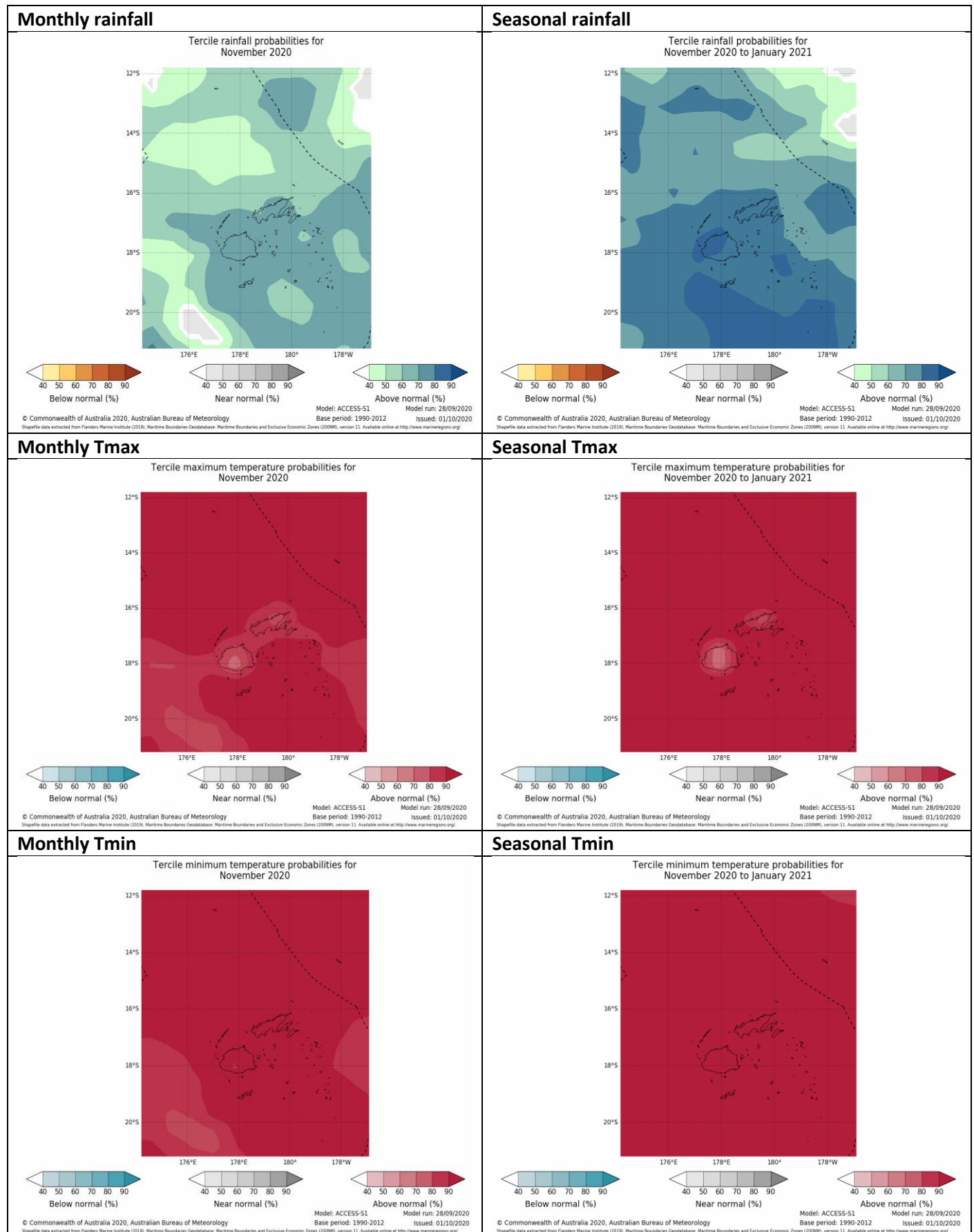
Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 March-April 2020				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2020)	92.6	Below normal	130.9	228.8	186.5	14/110	38	34	28	4	Consistent
Lautoka Mill (1900-2020)	128.4	Normal	116.7	219.0	160.9	43/121	38	33	29	3	Near-consistent
Nadi Airport (1942-2020)	127.5	Below normal	128.9	212.0	175.0	25/79	39	31	30	4	Consistent
Central Division											
Laucala Bay (Suva) (1942-2020)	390.1	Normal	384.3	566.4	477.2	28/79	38	31	31	2	Near-consistent
Nausori Airport (1957-2020)	427.0	Normal	366.7	531.1	437.6	30/64	34	35	31	-1	Consistent
Tokotoko (Navua) (1945-2020)	496.9	Below normal	526.5	668.4	601.2	19/74	38	37	25	6	Consistent
Eastern Division											
Lakeba (1950-2020)	382.4	Above normal	196.3	306.6	232.6	58/69	36	35	29	1	Inconsistent
Vunisea (Kadavu) (1931-2020)	343.1	Normal	289.5	398.9	347.0	44/82	36	33	31	-1	Near-consistent
Ono-i-Lau (1943-2020)	347.1	Above normal	252.4	338.6	295.5	51/72	36	33	31	1	Inconsistent
Northern Division											
Labasa Airport (1947-2020)	114.1	Normal	107.3	188.9	154.2	23/63	36	35	29	1	Near-consistent
Savusavu Airfield (1957-2020)	301.3	Normal	239.1	335.7	304.0	31/63	38	29	33	2	Near-consistent
Udu Point (1946-2020)	450.7	Above normal	229.3	336.0	288.8	61/70	38	33	29	6	Inconsistent
Rotuma (1912-2020)	1197.6	Above normal	573.0	762.2	648.4	98/103	34	31	35	-2	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2020 to January 2021**Predictor and Period used: NINO3.4 for August to September 2020**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2020)	36	713.9	64		15	67
Lautoka Mill (1900-2020)	24	613.6	76		37	80
Nadi Airport (1942-2020)	26	647.6	74		36	83
Central Division						
Laucala Bay (Suva) (1942-2020)	42	909.5	58		6	63
Nausori Airport (1957-2020)	39	857.1	61		7	64
Tokotoko (Navua) (1945-2020)	45	953.2	55		2	60
Eastern Division						
Lakeba (1950-2020)	35	586.5	65		16	65
Vunisea (Kadavu) (1931-2020)	40	568.7	60		9	67
Ono-i-Lau (1943-2020)	38	448.6	62		11	71
Northern Division						
Labasa Airport (1946-2020)	27	662.6	73		23	74
Savusavu Airfield (1956-2020)	33	658.7	67		17	67
Udu Point (1946-2020)	39	754.2	61		9	60
Rotuma (1912-2020)	42	965.4	58		5	58

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)	17	561.7	34	922.7	49	23	54
Lautoka Mill (1900-2020)	8	418.2	43	752.2	49	31	51
Nadi Airport (1942-2020)	12	425.4	38	750.4	50	32	57
Central Division							
Laucala Bay (Suva) (1942-2020)	29	688.3	30	1041.5	41	4	46
Nausori Airport (1957-2020)	23	742.5	33	1046.2	44	10	44
Tokotoko (Navua) (1945-2020)	23	853.7	38	1135.1	39	6	38
Eastern Division							
Lakeba (1950-2020)	22	462.7	34	682.8	44	15	48
Vunisea (Kadavu) (1931-2020)	22	487.2	34	704.8	44	12	49
Ono-i-Lau (1943-2020)	16	364.2	33	515.5	51	26	60
Northern Division							
Labasa Airport (1946-2020)	13	564.6	27	920.9	60	30	55
Savusavu Airfield (1956-2020)	20	573.6	37	745.0	43	11	48
Udu Point (1946-2020)	29	682.6	29	911.2	42	5	34
Rotuma (1912-2020)	18	853.9	41	1061.0	41	10	30

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for November 2020 to January 2021



Summary Statements

Rainfall for September 2020:

Near normal rainfall was recorded across the Western Division, at Vunisea in the Eastern Division and at Labasa Airport in the Northern Division. On the other hand, *above normal* rainfall was registered across the Central Division, at Lakeba and Ono-I-Lau in the Eastern Division, the rest of the Northern Division, and at Rotuma.

Rotuma recorded its seventh wettest September rainfall.

Accumulated rainfall for July to September 2020, including outlook verification:

Above normal rainfall was recorded at Lakeba and Ono-I-Lau in the Eastern Division, Udu Point in the Northern Division and at Rotuma, while *near normal* rainfall was recorded at Lautoka Mill in the Western Division, Laucala Bay and Nausori Airport in the Central Division, Vunisea in the Eastern Division, together with Labasa Airport and Savusavu Airfield in the Northern Division. Penang Mill, Nadi Airport and Tokotoko (Navua) received *below normal* rainfall.

Rotuma recorded its sixth wettest July to September period.

The rainfall outlooks were 'Consistent' at five sites, 'Near Consistent' at five sites and 'Inconsistent' at three sites.

Outlooks for November 2020 to January 2021:

1. SCOPIC:

- **Western Division, Eastern & Northern Divisions, and part of the Central 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.
- **Navua (Central Division) and Rotuma:** The outlook shows a near-equal likelihood of *above normal* and *near normal* rainfall. *Below normal* rainfall is least likely.

2. ACCESS-S:

Monthly rainfall:

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

Monthly maximum and minimum temperatures:

- **All regions:** Maximum and minimum temperatures are favoured to be *above normal* across the Fiji Group in November.

Seasonal rainfall:

- **All regions:** *Above normal* rainfall is favoured across the Fiji Group during the November 2020 to January 2021 period.

Seasonal maximum and minimum temperatures:

- **All regions:** Maximum and minimum temperatures are favoured to be *above normal* across the Fiji Group for the coming three months.

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

Product	Date: September 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/09/20	General public	140	106	34
EAR Watch	08/09/20	Humanitarian partners	122	96	26
Fiji Climate Outlook	14/09/20	General public	124	93	31
Climate Outlook for Monasavu	09/09/20	Energy Fiji Limited	13	13	-
Ocean Outlook	22/09/20	A number of key ocean related stakeholders	36	29	7
ENSO Update	23/09/20	General Public	142	116	26
Meteorological Data Request	01/09/20 to 30/09/20	A range of stakeholders	45	35	10
Total			622	488	134