

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 153

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2020	Apr-2020	May-2020					Rank
			Total (mm)	33%tile	67%tile	Median		
	Total (mm)	Total (mm)	Rainfall (mm)					
<i>Western Division</i>								
Penang Mill (1910-2020)	447.4	162.6	248.1	61.5	163.8	103.9	94/111	
Lautoka Mill (1900-2020)	594.1	237.2	187.8	37.6	88.0	62.8	102/121	
Nadi Airport (1942-2020)	785.4	177.2	156.1	42.5	102.7	70.4	65/78	
<i>Central Division</i>								
Laucala Bay (Suva) (1942-2020)	436.4	772.5	238.0	172.6	260.3	195.6	49/79	
Nausori Airport (1957-2020)	716.9	685.0	196.6	159.2	250.9	196.7	32/64	
Tokotoko (Navua) (1945-2020)	524.2	1085.2	203.1	183.6	320.6	253.6	30/76	
<i>Eastern Division</i>								
Lakeba (1950-2020)	209.4	436.0	86.6	81.3	168.0	108.3	30/70	
Vunisea (Kadavu) (1931-2020)	575.1	505.7	76.1	111.3	209.1	144.8	16/84	
Ono-i-Lau (1943-2020)	363.7	358.2	202.1	64.9	148.4	102.9	60/73	
<i>Northern Division</i>								
Labasa Airport (1946-2020)	298.9	163.9	132.6	52.0	117.3	81.6	47/65	
Savusavu Airfield (1956-2020)	101.7	275.9	263.6	118.4	196.9	153.4	50/63	
Udu Point (1946-2020)	294.9	218.4	303.2	100.8	174.7	144.0	65/72	
Rotuma (1912-2020)	352.0	188.5	140.0	222.3	340.0	275.0	15/107	

TABLE 2: Three-month Rainfall for March to May 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 December 19-January 20				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Western Division</i>											
Penang Mill (1910-2020)	858.1	Normal	645.4	892.3	770.3	72/110	43	31	26	7	Near-consistent
Lautoka Mill (1900-2020)	1019.1	Above normal	517.4	712.9	601.0	112/120	43	32	25	9	Inconsistent
Nadi Airport (1942-2020)	1118.7	Above normal	508.6	654.2	584.5	76/77	43	33	24	10	Inconsistent
<i>Central Division</i>											
Laucala Bay (Suva) (1942-2020)	1446.9	Above normal	814.5	1072.9	909.5	76/79	38	33	29	1	Inconsistent
Nausori Airport (1957-2020)	1598.5	Above normal	803.4	1027.5	915.9	62/64	36	32	32	-1	Near-consistent
Tokotoko (Navua) (1945-2020)	1812.5	Above normal	926.5	1219.9	1027.0	74/76	34	32	34	-2	Near-consistent
<i>Eastern Division</i>											
Lakeba (1950-2020)	732.0	Above normal	545.3	721.3	647.9	47/68	41	32	27	5	Inconsistent
Vunisea (Kadavu) (1931-2020)	1156.9	Above normal	636.3	761.7	712.7	81/83	43	30	27	8	Inconsistent
Ono-i-Lau (1943-2020)	924.0	Above normal	462.1	643.8	526.1	70/71	39	35	26	4	Inconsistent
<i>Northern Division</i>											
Labasa Airport (1947-2020)	595.4	Normal	558.2	846.0	688.3	25/64	37	34	29	1	Near-consistent
Savusavu Airfield (1957-2020)	641.2	Normal	569.5	724.3	663.8	29/62	40	33	27	7	Near-consistent
Udu Point (1946-2020)	816.5	Normal	618.2	844.3	718.2	46/71	37	35	28	1	Near-consistent
Rotuma (1912-2020)	680.5	Below normal	813.6	1013.8	947.4	21/106	32	33	35	-1	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for July to September 2020

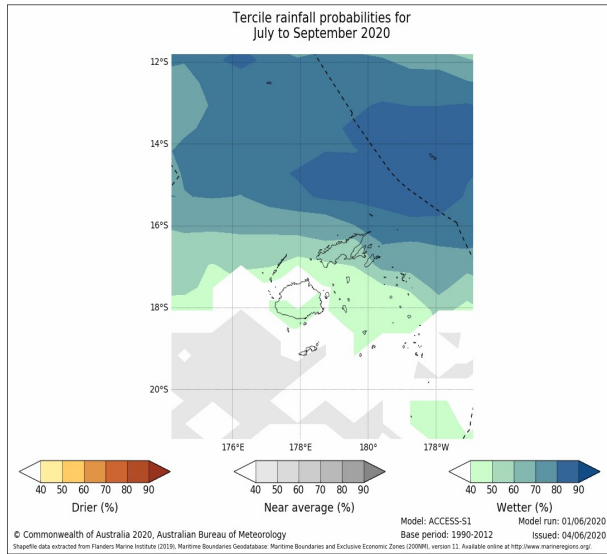
Predictor and Period used: NINO3.4 for April to May 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2020)	54	186.5	46		1	51
Lautoka Mill (1900-2020)	53	160.9	47		1	53
Nadi Airport (1942-2020)	55	175.0	45		3	53
Central Division						
Laucala Bay (Suva) (1942-2020)	54	477.2	46		1	50
Nausori Airport (1957-2020)	51	437.6	49		-1	46
Tokotoko (Navua) (1945-2020)	56	601.2	44		5	52
Eastern Division						
Lakeba (1950-2020)	53	232.6	47		0	52
Vunisea (Kadavu) (1931-2020)	53	347.0	47		0	53
Ono-i-Lau (1943-2020)	52	295.5	48		-1	52
Northern Division						
Labasa Airport (1946-2020)	53	154.2	47		1	53
Savusavu Airfield (1956-2020)	57	304.0	43		7	61
Udu Point (1946-2020)	60	288.8	40		15	65
Rotuma (1912-2020)	49	648.4	51		-1	50

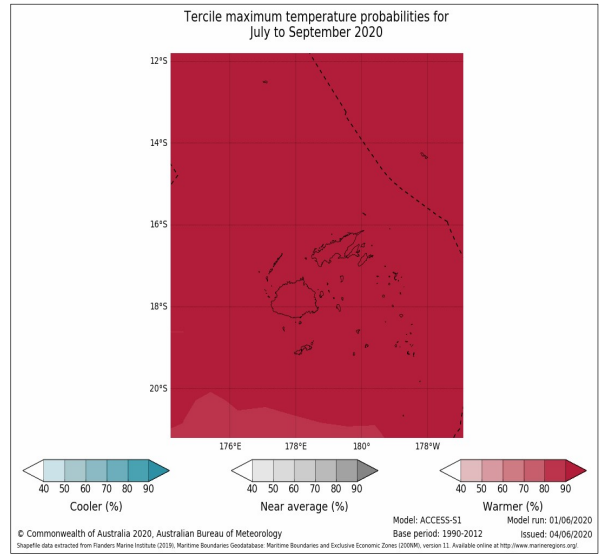
Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division							
Penang Mill (1910-2020)	38	130.9	34	228.8	28	4	39
Lautoka Mill (1900-2020)	38	116.7	33	219.0	29	3	39
Nadi Airport (1942-2020)	39	128.9	31	212.0	30	4	40
Central Division							
Laucala Bay (Suva) (1942-2020)	38	384.3	31	566.4	31	2	23
Nausori Airport (1957-2020)	34	366.7	35	531.1	31	-1	33
Tokotoko (Navua) (1945-2020)	38	526.5	37	668.4	25	6	43
Eastern Division							
Lakeba (1950-2020)	36	196.3	35	306.6	29	1	27
Vunisea (Kadavu) (1931-2020)	36	289.5	33	398.9	31	-1	34
Ono-i-Lau (1943-2020)	36	252.4	33	338.6	31	1	26
Northern Division							
Labasa Airport (1946-2020)	36	107.3	35	188.9	29	1	23
Savusavu Airfield (1956-2020)	38	239.1	29	335.7	33	2	40
Udu Point	38	229.3	33	336.0	29	6	39
Rotuma (1912-2020)	34	573.0	31	762.2	35	-2	35

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

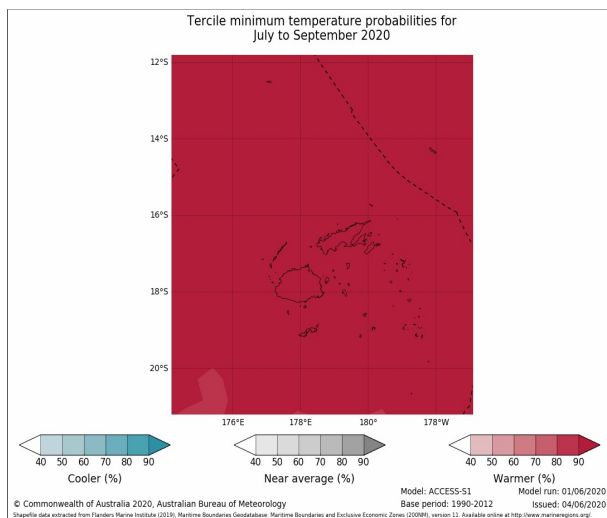
Seasonal Rainfall



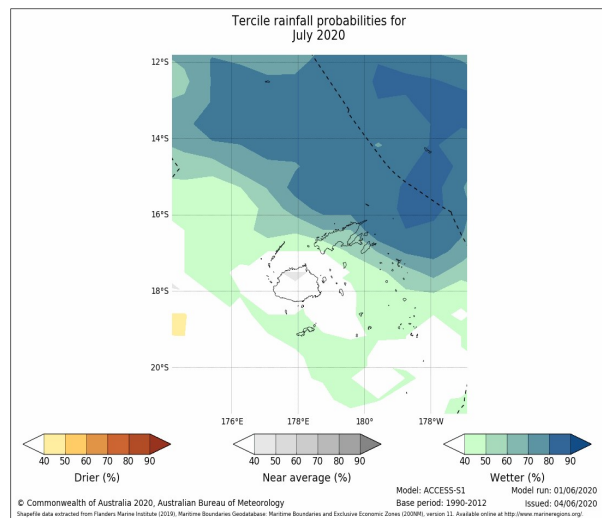
Seasonal maximum temperature



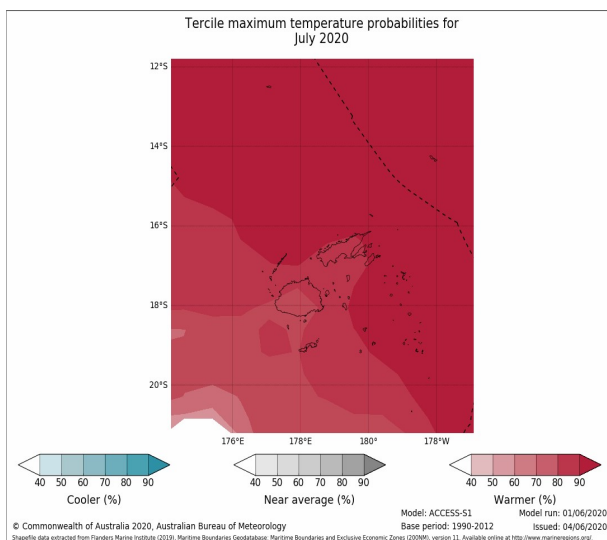
Seasonal minimum temperature



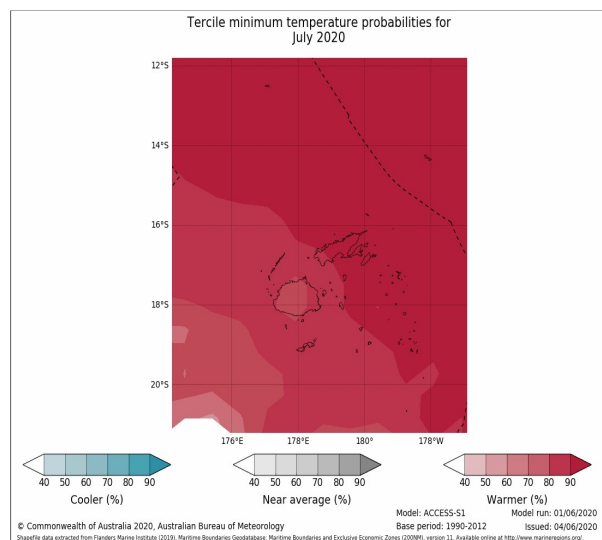
Monthly rainfall



Monthly maximum temperature



Monthly minimum temperature



Summary Statements

Rainfall for May 2020:

Above normal rainfall was recorded across the Western and Northern Divisions, and at Ono-i-Lau in the Eastern Division. *Near normal* rainfall was received across the Central Division and at Lakeba in the Eastern Division. Vunisea and Rotuma were the only sites to register *below normal* rainfall.

Udu Point in the Northern Division registered its eighth-wettest May since observations began.

Accumulated rainfall for March to May 2020, including outlook verification:

Above normal rainfall was recorded across the Central and Eastern Divisions and parts of the Western Division, while *near normal* rainfall was recorded in the Northern Division and Penang Mill in the Western Division. Rotuma was the only station with *below normal* rainfall.

Nadi Airport and Ono-i-Lau recorded their second-wettest March to May on record, Nausori Airport and Vunisea recorded their third-wettest March to May on record, and Laucala Bay recorded its fourth-wettest March to May on record.

The rainfall outlooks were 'Near Consistent' at six sites and 'Inconsistent' at seven sites.

Outlooks for July to September 2020:

1. SCOPIC:

- **Tokotoko (Navua, Central Division):** The outlook shows a near-equal likelihood of *below normal* and *normal* rainfall. Above normal is the least likely.
- **All remaining sites:** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.
- The skill of the predictions are *very low* or *low* at majority of the sites at this time of the year.

2. ACCESS-S:

Seasonal rainfall (July to September 2020):

- **Central, Northern and Eastern Divisions, South west Viti Levu, and Rotuma:** *Wetter than normal* season favoured.
- **North west Viti Levu:** Little guidance.

Seasonal maximum and Minimum temperature (July to September 2020):

- **Western, Central, Eastern and Northern Divisions, and Rotuma:** *Above normal* maximum and minimum air temperatures are favoured.

Monthly rainfall (July 2020):

- **Northern and Eastern Divisions, and Rotuma:** *Wetter than normal* month is favoured.
- **Western Division:** Little guidance.

Monthly maximum and minimum temperatures (July 2020):

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

Product	Date: May 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	08/05/20	General public	140	106	34
Fiji Climate Outlook	14/05/20	General public	124	93	31
Climate Outlook for Monasavu	11/05/20	Energy Fiji Limited	13	13	-
EAR Watch	06/05/20	Humanitarian partners	122	96	26
Ocean Outlook	20/05/20	Reef Explorer Fiji Limited, Maritime Safety Authority of Fiji, World Wildlife Fund, Wildlife Conservation Society, Ministry of Fisheries and Tourism Sector	36	29	7
ENSO Update	25/05/20	General Public	142	116	26
Meteorological Data Request	01/05/20 to 31/05/20	A range of stakeholders	52	44	8
Total			629	497	132