Pacific Islands - Online Climate Outlook Forum (OCOF) No. 166

Country: Fiji

TABLE 1: Monthly Rainfall

| | Apr-2021 | May-2021 | Jun-2021 | | | | | | |
|--------------------------------|---------------|---------------|---------------|---------|---------|--------|--------|--|--|
| Station (include data period) | | | Total (mm) | 33%tile | 67%tile | Median | Rank | | |
| | Total (mm) | Total (mm) | | Nalik | | | | | |
| Western Division | | | | | | | | | |
| Penang Mill (1910-2021) | 217.6 | 400.9 | 72.4 | 44.6 | 99.1 | 59.4 | 68/112 | | |
| Lautoka Mill (1900-2021) | 228.5 | 162.0 | 42.6 | 33.1 | 77.1 | 49.6 | 58/122 | | |
| Nadi Airport (1942-2021) | 63.4 | 122.3 | 42.1 | 25.6 | 72.6 | 53.2 | 36/80 | | |
| Central Division | | | | | | | | | |
| Laucala Bay (Suva) (1942-2021) | 136.6 | 508.9 | 93.4 | 104.3 | 208.4 | 137.6 | 23/80 | | |
| Nausori Airport (1957-2021) | 352.0 | 624.4 | 109.0 | 92.7 | 201.4 | 144.1 | 29/65 | | |
| Tokotoko (Navua) (1945-2021) | 133.1 | 717.2 | 190.7 | 129.9 | 237.0 | 162.5 | 42/77 | | |
| | | Easte | rn Division | | | | | | |
| Lakeba (1950-2021) | 57.2 | 402.1 | 70.2 | 52.0 | 127.1 | 84.6 | 31/72 | | |
| Vunisea (Kadavu) (1931-2021) | 274.7 | 394.1 | 88.0 | 84.4 | 145.7 | 116.2 | 35/85 | | |
| Ono-i-Lau (1943-2021) | 62.2 | 149.3 | 116.4 | 62.7 | 108.2 | 79.3 | 51/74 | | |
| Northern Division | | | | | | | | | |
| Labasa Airport (1946-2021) | 159.6 | 293.6 | 23.7 | 29.0 | 81.0 | 46.1 | 19/65 | | |
| Savusavu Airfield (1956-2021) | М | М | М | 62.2 | 136.0 | 107.9 | | | |
| Udu Point (1946-2021) | 240.9 | 326.2 | 104.5 | 75.4 | 152.5 | 105.6 | 36/73 | | |
| | | | | | | | | | |
| Rotuma (1912-2021) | 552.3 | 400.9 | 151.5 | 203.9 | 303.7 | 246.9 | 23/107 | | |

TABLE 2: Three-month Rainfall for April to June 2021

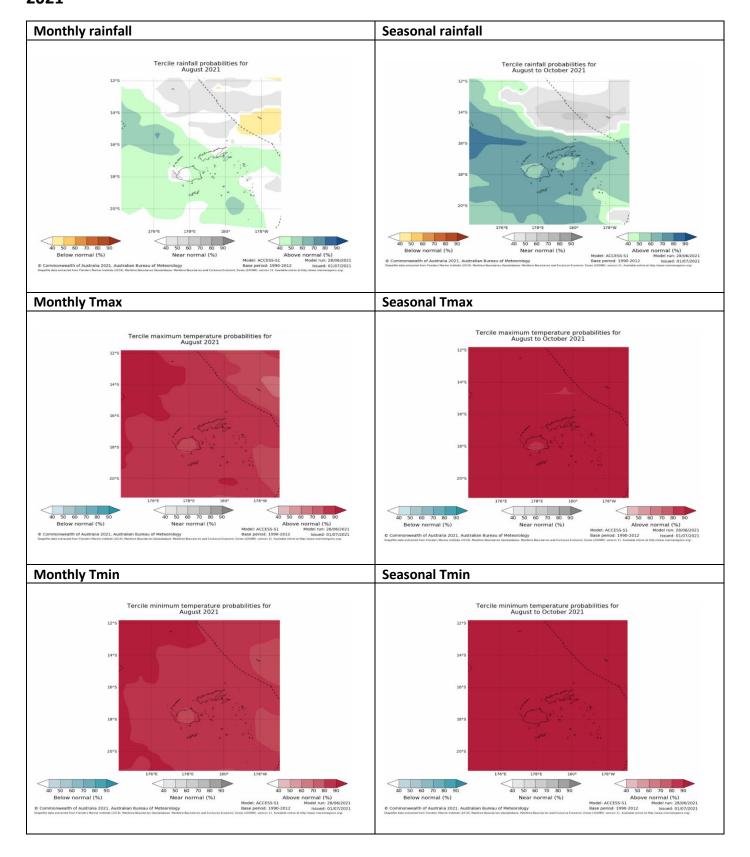
| Station | Three-m | nonth Total | 33%tile | 67%tile | Median | Rank | | OPIC foreca NINO3.4 Jai | • | | Verification: Consistent, Near- consistent, |
|------------------------------------|---------------|-----------------|---------|---------|--------------|--------|-----|----------------------------|-----|------|--|
| | Rainfall (mm) | | | | | | B-N | N | A-N | LEPS | Inconsistent? |
| Western Division | | | | | | | | | | | |
| Penang Mill (1910-2021) | 690.9 | Above normal | 372.8 | 542.7 | 450.1 | 99/111 | 27 | 34 | 39 | 1 | Consistent |
| Lautoka Mill (1900-2021) | 433.1 | Above normal | 264.0 | 411.5 | 347.5 | 91/122 | 19 | 33 | 48 | 11 | Consistent |
| Nadi Airport (1942-2021) | 227.8 | Below normal | 254.3 | 376.2 | 315.7 | 19/79 | 22 | 32 | 46 | 8 | Inconsistent |
| | | | | Cent | ral Division | | | | | | |
| Laucala Bay (Suva) (1942- 2021) | 738.9 | Normal | 682.4 | 849.4 | 732.4 | 42/80 | 25 | 32 | 43 | 4 | Near- consistent |
| Nausori Airport (1957-2021) | 1085.4 | Above normal | 645.9 | 794.0 | 708.2 | 58/65 | 19 | 37 | 44 | 6 | Consistent |
| Tokotoko (Navua) (1945- 2021) | 1041.0 | Above normal | 737.5 | 992.1 | 864.5 | 53/77 | 24 | 31 | 45 | 5 | Consistent |
| | | | | Easte | ern Division | | | | | | |
| Lakeba (1950-2021) | 529.5 | Above normal | 357.3 | 502.8 | 434.8 | 48/69 | 22 | 37 | 41 | 5 | Consistent |
| Vunisea (Kadavu) (1931- 2021) | 756.8 | Above normal | 485.5 | 620.7 | 549.3 | 73/85 | 18 | 40 | 42 | 7 | Consistent |
| Ono-i-Lau (1943-2021) | 327.9 | Normal | 324.1 | 486.6 | 428.6 | 25/71 | 13 | 45 | 42 | 10 | Consistent |
| | | | | North | ern Division |) | | | | | |
| Labasa Airport (1947-2021) | 476.9 | Above normal | 331.4 | 447.5 | 407.4 | 48/65 | 26 | 34 | 40 | 2 | Consistent |
| Savusavu Airfield (1957- 2021) | | | 398.0 | 629.3 | 506.7 | | 18 | 30 | 52 | 12 | |
| Udu Point (1946-2021) | 671.6 | Above normal | 447.6 | 662.2 | 535.5 | 50/72 | 24 | 40 | 36 | 2 | Near- consistent |
| Rotuma (1912-2021) | 1104.7 | Above normal | 744.0 | 913.8 | 825.7 | 97/107 | 37 | 32 | 31 | -2 | Inconsistent |

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2021 Predictor and Period used: NINO3.4 for May to June 2021

| Station | Below Median (prob) | Median Rainfall (mm) | Above Median (prob) | | LEPS (%) [whole numbers] | Hit-rate (%) [whole numbers] | | | |
|--------------------------------|---------------------------|----------------------------|---------------------------|--|--------------------------------|------------------------------------|--|--|--|
| Western Division | | | | | | | | | |
| Penang Mill (1910-2021) | 48 | 239.6 | 52 | | 1 | 53 | | | |
| Lautoka Mill (1900-2021) | 48 | 214.3 | 52 | | 2 | 52 | | | |
| Nadi Airport (1942-2021) | 48 | 225.0 | 52 | | 2 | 51 | | | |
| | | Centr | al Division | | | | | | |
| Laucala Bay (Suva) (1942-2021) | 48 | 513.2 | 52 | | 1 | 49 | | | |
| Nausori Airport (1957-2021) | 47 | 486.0 | 53 | | 2 | 55 | | | |
| Tokotoko (Navua) (1945-2021) | 47 | 647.6 | 53 | | 7 | 55 | | | |
| | | Easte | rn Division | | | | | | |
| Lakeba (1950-2021) | 50 | 307.9 | 50 | | -1 | 58 | | | |
| Vunisea (Kadavu) (1931-2021) | 49 | 394.0 | 51 | | -1 | 49 | | | |
| Ono-i-Lau (1943-2021) | 48 | 312.5 | 52 | | 1 | 57 | | | |
| | | North | ern Division | | | | | | |
| Labasa Airport (1946-2021) | 46 | 198.6 | 54 | | 4 | 61 | | | |
| Savusavu Airfield (1956-2021) | 47 | 354.6 | 53 | | 1 | 56 | | | |
| Udu Point (1946-2021) | 48 | 346.4 | 52 | | 0 | 58 | | | |
| | | | | | | | | | |
| Rotuma (1912-2021) | 51 | 718.2 | 49 | | 0 | 54 | | | |

| 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 (1910-2021) | 33 | 187.2 | 32 | 278.5 | 35 | 6 | 29 | | | |
| Lautoka Mill (1900-2021) | 30 | 152.5 | 35 | 253.8 | 35 | 3 | 37 | | | |
| Nadi Airport (1942-2021) | 30 | 171.7 | 35 | 281.7 | 35 | 7 | 41 | | | |
| | Central Division | | | | | | | | | |
| Laucala Bay (Suva) (1942-2021) | 31 | 425.8 | 34 | 627.0 | 35 | 5 | 42 | | | |
| Nausori Airport (1957-2021) | 34 | 422.5 | 31 | 605.2 | 35 | -1 | 34 | | | |
| Tokotoko (Navua) (1945-2021) | 33 | 551.8 | 32 | 784.2 | 35 | 5 | 29 | | | |
| | | Easte | rn Division | | | | | | | |
| Lakeba (1950-2021) | 32 | 253.7 | 34 | 342.8 | 34 | 2 | 46 | | | |
| Vunisea (Kadavu) (1931-2021) | 33 | 327.1 | 32 | 447.6 | 35 | 2 | 38 | | | |
| Ono-i-Lau (1943-2021) | 31 | 236.9 | 34 | 370.6 | 35 | 0 | 39 | | | |
| Northern Division | | | | | | | | | | |
| Labasa Airport (1946-2021) | 31 | 176.2 | 34 | 242.0 | 35 | 0 | 25 | | | |
| Savusavu Airfield (1956-2021) | 31 | 301.4 | 34 | 420.1 | 35 | 3 | 41 | | | |
| Udu Point (1946-2021) | 33 | 298.6 | 33 | 419.6 | 35 | 1 | 25 | | | |
| | | | _ | | | | | | | |
| Rotuma (1912-2021) | 35 | 634.6 | 35 | 889.0 | 30 | 2 | 40 | | | |

TABLE 4: Monthly and Seasonal Climate Outlooks using ACCESS-S for August to October 2021



Summary Statements

Rainfall for June 2021:

Normal rainfall was recorded across most of the country, with above normal rainfall at Ono-i-Lau (Eastern Division) and below normal rainfall observed at Suva (Central Division), Labasa Airport (Northern Division) and Rotuma. Rainfall data was not available for Savusavu Airfield.

There were no extreme rainfall records established during the month of June.

Accumulated rainfall for April to June 2021, including outlook verification:

Above normal rainfall was received across most of the divisions, except normal rainfall at Suva and Ono-i-Lau while below normal rainfall was observed at Nadi Airport. Rotuma also registered above normal rainfall. Rotuma recorded its eleventh wettest April to June on record.

Savusavu Airfield could not be analysed due to missing rainfall data.

The rainfall outlooks issued in March were verified as 'Consistent' at eight sites, 'Near-Consistent' at two sites and 'Inconsistent' at two sites, while Savusavu Airfield could not be verified due to missing data.

Outlooks for August to October 2021:

1. SCOPIC:

• Western Division, Central Division, Eastern Division, 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:

- **All regions:** : Above normal rainfall is likely across most of the Fiji Group, except for western parts of Viti Levu, northern parts of Vanua Levu and parts of Southern Lau Group where there is little guidance.
- Rotuma: The outlook shows normal rainfall as the most likely outcome.

Monthly/Seasonal maximum and minimum temperatures:

• All regions: Temperatures are favoured to be *above normal* across the Fiji Group in August and August to October.

Seasonal rainfall:

- All regions: Above normal rainfall is favoured across Fiji Group for the August to October period.
- Rotuma: Above normal rainfall is favoured.

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

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

Very High: 25 ≤X < 35 Exceptional: X ≥ 35

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

| Product | Date: June 2021 | Stakeholder | Total Number of Participants | Number of male | Number of female |
|------------------------------------|--------------------------|---|------------------------------|-------------------|------------------|
| Fiji Climate Summary | 05/06/21 | General public | 140 | 106 | 34 |
| EAR Watch | 04/06/21 | Humanitarian partners | 122 | 96 | 26 |
| Fiji Climate Outlook | 30/06/21 | General public | 124 | 93 | 31 |
| Climate Outlook for Monasavu | 30/06/21 | Energy Fiji Limited | 13 | 13 | - |
| Ocean Outlook | 18/06/21 | A number of key ocean related stakeholders | 36 | 29 | 7 |
| Meteorological Data Request | 01/06/21/ to 30/06/21 | A range of stakeholders | 19 | 13 | 6 |
| Total | | | 454 | 350 | 104 |