## Pacific Islands - Ocean and Climate Outlook Forum (OCOF) No. 175

## Country: Fiji

## Part 1: Recent climate

## TABLE 1: Monthly Rainfall

| Station (include data period) | Jan-2022 | Feb-2022 | Mar-2022 | | | | |
|---|---|---|---|---|---|---|---|
| | | | Total (mm) | 33%tile | 67%tile | Median | Rank |
| | Total (mm) | Total (mm) | Rainfall (mm) | | | | |
| ***Western Division*** | | | | | | | |
| Penang Mill (1910-2022) | 994.2 | 679.2 | 568.0 | 289.1 | 456.4 | 381.8 | 93/113 |
| Lautoka Mill (1900-2022) | 776.2 | 700.0 | 595.4 | 230.6 | 415.8 | 305.0 | 107/122 |
| Nadi Airport (1942-2022) | 871.8 | 623.0 | 547.2 | 254.1 | 414.1 | 319.2 | 67/79 |
| ***Central Division*** | | | | | | | |
| Laucala Bay (Suva) (1942-2022) | 458.0 | 241.9 | 268.6 | 298.4 | 433.9 | 345.2 | 18/81 |
| Nausori Airport (1957-2022) | 564.3 | 231.3 | 230.2 | 313.9 | 445.7 | 367.0 | 12/66 |
| Tokotoko (Navua) (1945-2022) | M | 148.5 | 328.5 | 316.3 | 439.6 | 378.4 | 30/78 |
| ***Eastern Division*** | | | | | | | |
| Lakeba (1950-2022) | 398.8 | 278.8 | 272.2 | 212.6 | 329.4 | 256.4 | 39/72 |
| Vunisea (Kadavu) (1931-2022) | 379.3 | 253.3 | 453.0 | 227.9 | 307.7 | 284.9 | **77/86** |
| Ono-i-Lau (1943-2022) | M | 329.4 | 229.4 | 166.9 | 295.0 | 238.2 | 39/75 |
| ***Northern Division*** | | | | | | | |
| Labasa Airport (1946-2022) | 697.2 | 536.8 | 394.9 | 263.6 | 426.3 | 327.6 | 41/66 |
| Savusavu Airfield (1956-2022) | M | M | 345.7 | 179.9 | 272.9 | 228.2 | **55/64** |
| Udu Point (1946-2022) | 622.9 | 353.1 | 243.6 | 256.0 | 363.4 | 301.0 | 45/75 |
| | | | | | | | |
| Rotuma (1912-2022) | 556.7 | 427.0 | 182.5 | 274.6 | 405.5 | 326.4 | 12/109 |

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

Very Low: X < 0.0 Low: 0 ≤ X < 5 Moderate 5 ≤ X < 10 Good: 10 ≤ X < 15 High: 15≤ X < 25

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

## TABLE 2: Three-month Total Rainfall for January to March 2022

| Station | Three-month Total | | 33%tile | 67%tile | Median | Rank |
|---|---|---|---|---|---|---|
| | Rainfall (mm) | | | | | |
| ***Western Division*** | | | | | | |
| Penang Mill (1910-2022) | 2241.4 | Above normal | 1038.0 | 1256.0 | 1128.6 | **112/113** |
| Lautoka Mill (1900-2022) | 2071.6 | Above normal | 867.3 | 1147.3 | 1020.3 | **121/122** |
| Nadi Airport (1942-2022) | 2042.0 | Above normal | 828.6 | 1136.4 | 939.7 | **78/79** |
| ***Central Division*** | | | | | | |
| Laucala Bay (Suva) (1942-2022) | 968.5 | Normal | 853.0 | 1071.8 | 1002.2 | 37/81 |
| Nausori Airport (1957-2022) | 1025.8 | Normal | 893.0 | 1078.5 | 997.8 | 39/66 |
| Tokotoko (Navua) (1945-2022) | | | 917.4 | 1197.3 | 1057.3 | |
| ***Eastern Division*** | | | | | | |
| Lakeba (1950-2022) | 949.8 | Above normal | 658.3 | 885.0 | 766.4 | 52/71 |
| Vunisea (Kadavu) (1931-2022) | 1085.6 | Above normal | 676.1 | 867.8 | 785.9 | **79/86** |
| Ono-i-Lau (1943-2022) | | | 485.7 | 751.3 | 619.5 | |
| ***Northern Division*** | | | | | | |
| Labasa Airport (1947-2022) | 1628.9 | Above normal | 945.7 | 1299.6 | 1108.6 | **56/63** |
| Savusavu Airfield (1957-2022) | | | 669.4 | 855.5 | 780.7 | |
| Udu Point (1946-2022) | 1219.6 | Above normal | 815.7 | 1045.7 | 980.4 | **64/73** |
| | | | | | | |
| Rotuma (1912-2022) | 1166.2 | Above normal | 889.2 | 1152.9 | 1037.5 | 74/109 |

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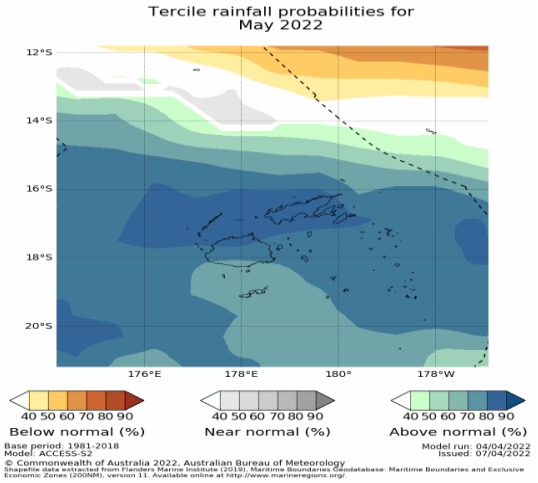
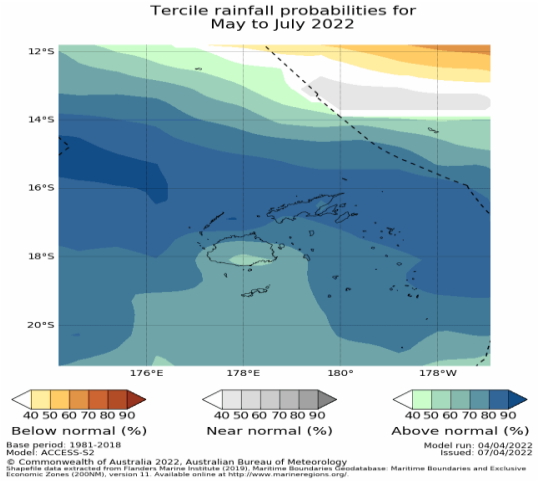
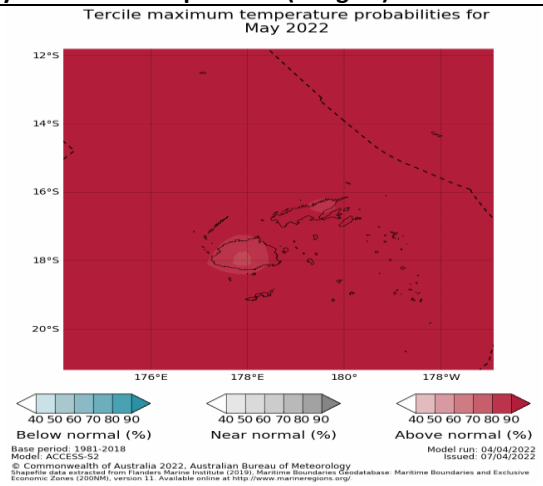
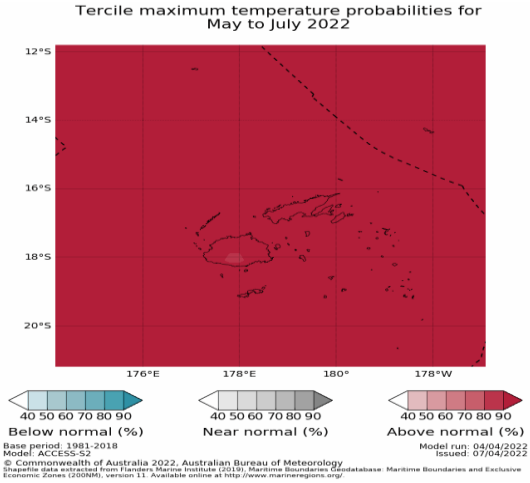
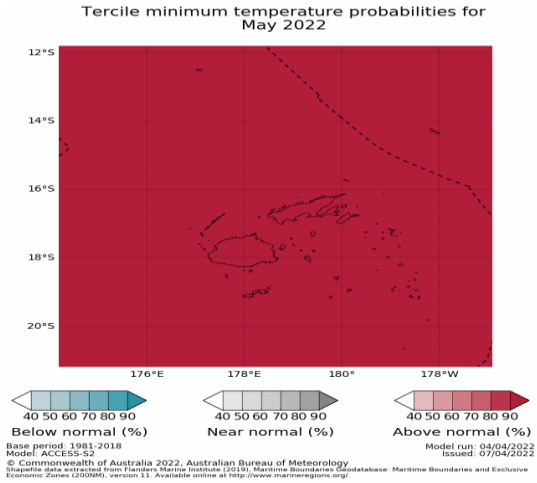
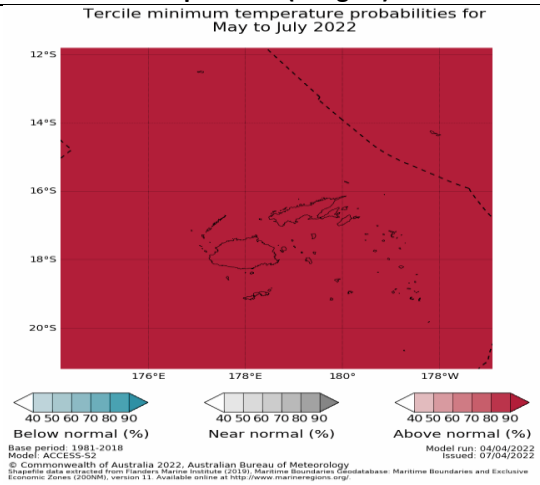
Very High: 25 ≤X < 35 Exceptional: X ≥ 35

# Part 1i. Monthly and Seasonal Outlooks for May and May to July 2022

| Monthly: May | Seasonal: May to July |
|---|---|
| **Rainfall (Image 1)** | **Rainfall (Image 2)** |
|  |  |
| **Monthly Maximum temperature (Image 3):** | **Seasonal maximum temperature (Image 4):** |
|  |  |
| **Monthly minimum temperature (Image 5):** | **Seasonal minimum temperature (Image 6):** |
|  |  |

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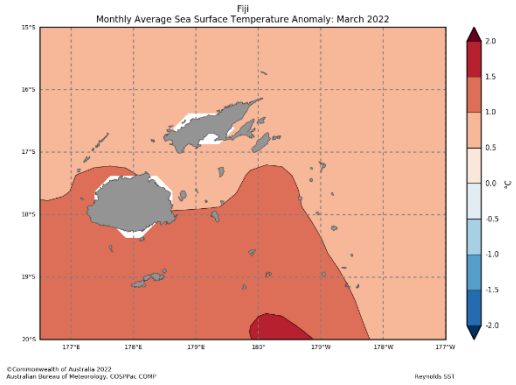
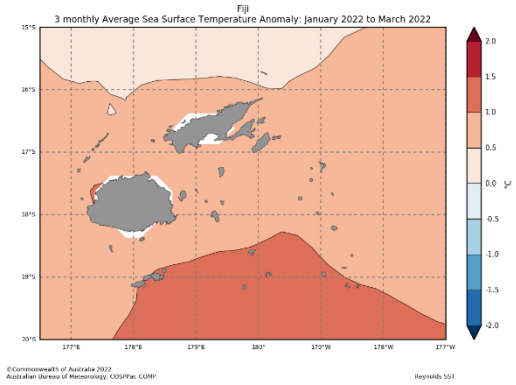
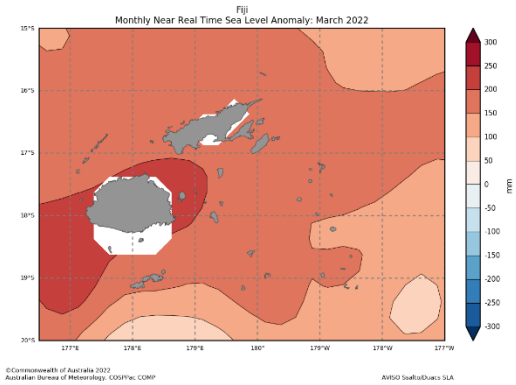
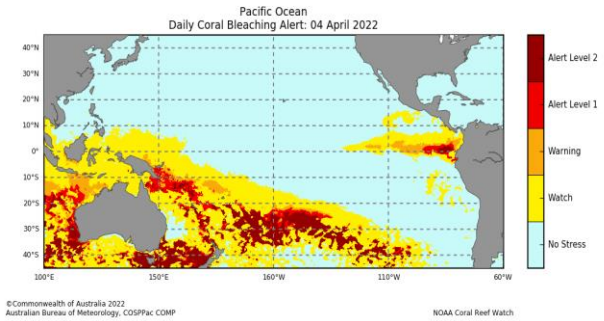
Very High: 25 ≤X < 35 Exceptional: X ≥ 35

# Part 2: Recent Ocean summary statement

## Monthly: March 2022

| **Monthly: March** | **Last three months: January to March 2022:** |
|---|---|
| **Sea Surface Temperature (Image 1):** | **Sea Surface Temperature (Image 4):** |
|  |  |
| **Sea level (Image 2):** | |
|  | |
| **Daily coral bleaching alert (Image 3):** | |
|  | |

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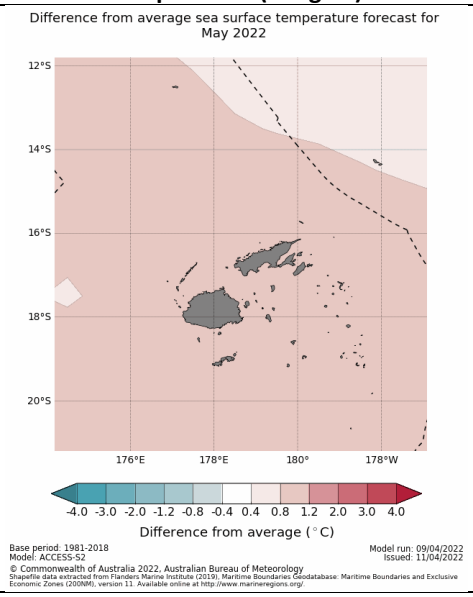
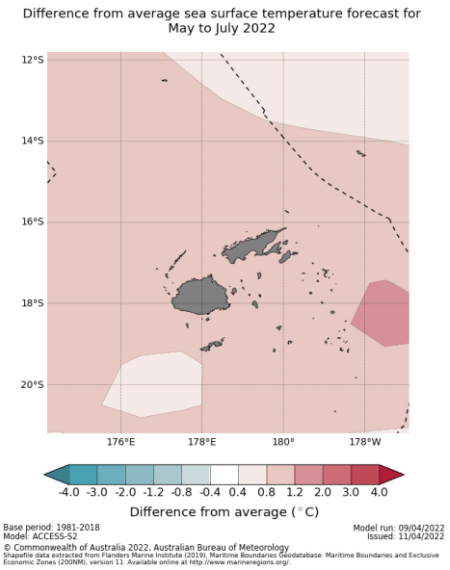
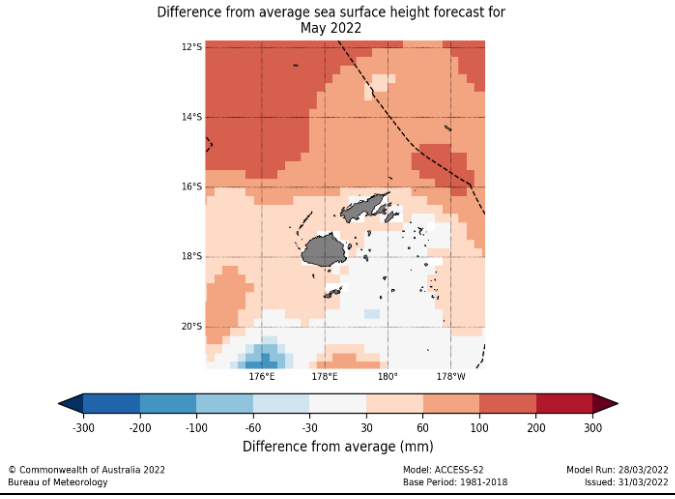
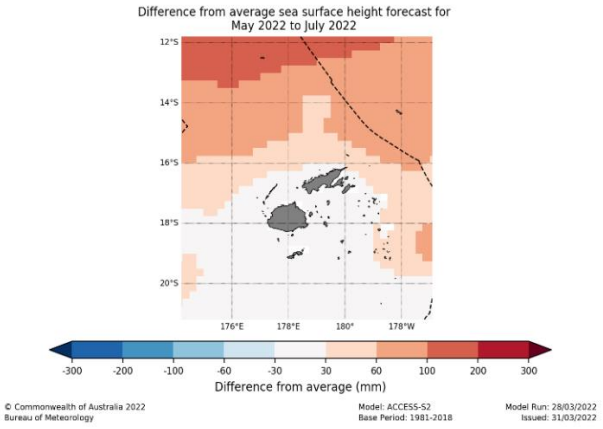
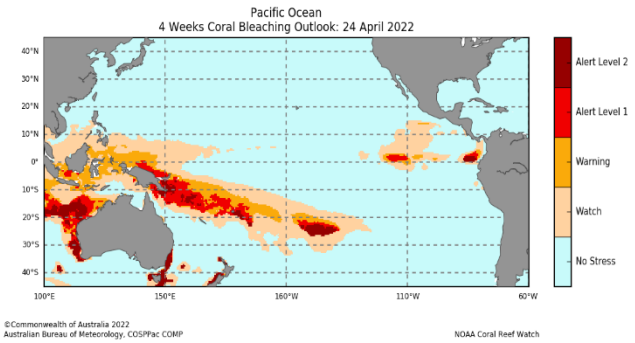
# Part 2i. Monthly and Seasonal Outlooks for May and May to July 2022

| Monthly: May | Seasonal: May to July |
|---|---|
| **Monthly sea surface temperature (Image 5):** | **Seasonal sea surface temperature (Image 6):** |
|  |  |
| **Monthly sea level (Image 7):** | **Seasonal sea level (Image 8):** |
|  |  |
| **4-week Coral Bleaching (Image 9):** | |
|  | |

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## Summary Statement

**Monthly and last three months: March 2022/January to March 2022 statement** *(Highly significant changes)*

For March 2022, *above normal* rainfall was recorded across Western Division, Vunisea (Kadavu), and Savusavu Airfield. *Near normal* rainfall was registered at Tokotoko (Navua), Lakeba, Ono-i-Lau and Labasa Airport. Laucala Bay (Suva), Nausori Airport, Udu Point and Rotuma recorded *below normal* rainfall. Vunisea (Kadavu) and Savusavu Airfield recorded their tenth wettest March, in 86 years and 64 years of record, respectively.

*Above normal* rainfall was recorded across Western, Eastern and Northern Divisions and at Rotuma for January 2022 to March 2022 period, while *near normal* rainfall was registered across Central Division. Lautoka Mill, Penang Mill and Nadi Airport recorded their second wettest January to March period, in 122 years, 113 and 79 year of record, respectively. Vunisea (Kadavu) and Labasa Airport recorded their eighth wettest January to March period in, 86 years and 63 years of record respectively, while Udu Point recorded its tenth wettest January to March period in 73 years of record.

## Part 1i. Monthly and Seasonal Outlooks for May and May to July 2022

**Monthly /Seasonal rainfall and temperature Outlook statements** *(Highly significant changes)*

The rainfall outlook for Fiji for May is very likely to be *above normal,* except for Rotuma with little guidance as the chances of *above normal*, *normal* and *below normal* rainfall are similar.

The rainfall outlook for Fiji for May to July 2022 is very likely to be *above normal*.

Both maximum and minimum temperatures for Fiji for May and May to July 2022 are very likely to be *above normal*.

## Part 2: Recent Ocean summary statement

**Monthly and last three months: March/January to March 2022** *(Highly significant changes)*

Most of the Fiji Waters experienced above average SST in March 2022. Significant warm SSTs of 1.0 to 1.5°C above average were experienced around Viti Levu, Kadavu and parts of Lomaiviti and southern Lau group.

For the January to March 2022 period, above average SSTs were experienced in most of the Fiji Waters, significant warmer SSTs of 1.0 to 1.5°C above average were experienced around Kadavu and parts of the southern Lau Group.

The sea level anomaly across Fiji in February 2022 was significantly higher than normal, with waters around northern and western Viti Levu, and Lomaiviti Group in the range of 200 to 250 mm above average.

*Coral bleaching status is at 'Alert Level 1' for parts near Taveuni, and at Galoa Bay in Vanua Levu. Other parts of the ocean on "Warning or Watch".*

## Part 2i. Monthly and Seasonal Outlooks for May and May to July 2022

**Ocean Variable statement** *(Highly significant changes)*

The SST outlook for Fiji Waters shows a significant temperature difference of 0.8-1.2°C above normal for May and May to July 2022.

The outlook for Rotuma shows a significant sea level difference of 0.1-0.2m above normal for May and May to July 2022.

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Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

There is a coral bleaching outlook status at an Alert Level 1 for the Fiji Group for the next four weeks.

## TABLE 3: Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

| Product | Date: March 2022 | Stakeholder | Total Number of Participants | Number of male | Number of female |
|---|---|---|---|---|---|
| Fiji Climate Summary | 07/03/22 | General Public | 140 | 106 | 34 |
| EAR Watch | 14/03/22 | Humanitarian partners | 122 | 96 | 26 |
| Fiji Climate Outlook | 31/03/22 | General public | 124 | 93 | 31 |
| Climate Outlook for Monasavu | 30/03/22 | Energy Fiji Limited | 13 | 13 | - |
| Fiji Ocean Outlook | 18/03/22 | A number of key ocean related stakeholders | 36 | 29 | 7 |
| ENSO Outlook | 25/03/22 | General Public | 142 | 116 | 26 |
| Meteorological Data Request | 01/03/22 to 31/03/22 | A range of stakeholders | 35 | 25 | 10 |
| | | **Total** | **612** | **478** | **134** |

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