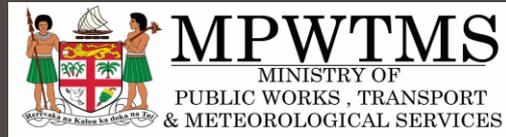


ISSUED: May 31, 2023

NEXT ISSUE: June 30, 2023

VOLUME 17: ISSUE 06



FIJI CLIMATE OUTLOOK

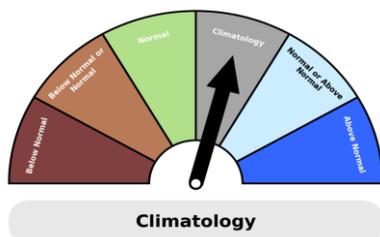
JUNE 2023;

JUNE TO AUGUST 2023;

SEPTEMBER TO NOVEMBER 2023

Fiji Meteorological Service

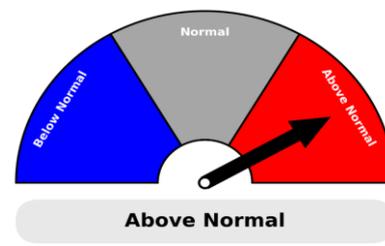
HIGHLIGHTS



Rainfall Outlook



ENSO Outlook

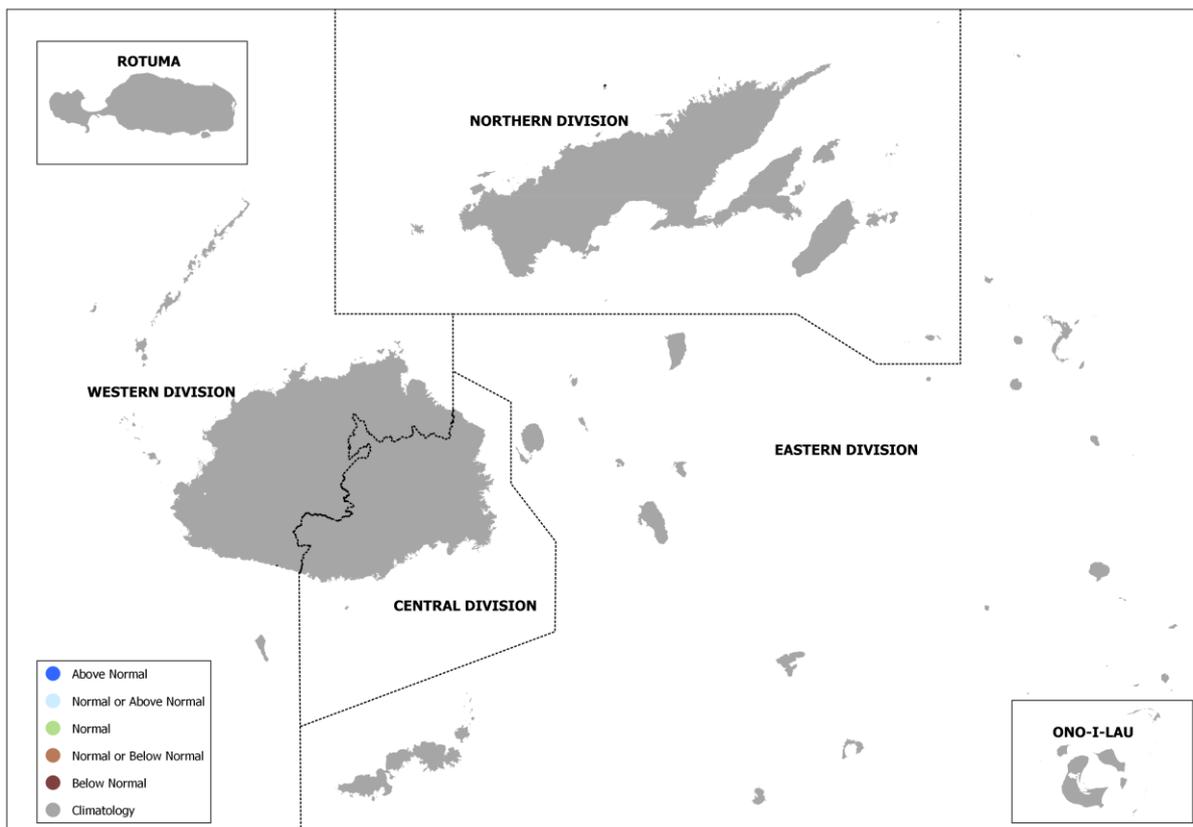


Air Temperature

- During June 2023, there is little guidance provided, as there is almost equal chances of *below normal*, *normal* and *above normal* rainfall across the Fiji Group.
- For June to August period, there is little guidance provided, as there is almost equal chances of *below normal*, *normal* and *above normal* rainfall across the Fiji Group.
- During September to November period, *near normal* or *below normal* rainfall is likely for the Fiji Group.
- The air temperatures are likely to be *above normal* across the country during June, and as well as the June to August period.
- El-Niño Southern Oscillation (ENSO) is currently in a neutral state, which is neither El Niño nor La Niña.
- Climate models favour development of an El Niño event during the June to August 2023 period, however, an atmospheric response is also required for an El Niño to be declared. Consequently, El Niño Watch is in place.
- Little shift has been observed in atmospheric ENSO indicators with trade winds and cloudiness patterns in the Pacific remain indicative of ENSO-neutral conditions.
- Fiji usually experiences *below normal* rainfall during an onset of El Niño event.

RAINFALL OUTLOOK

JUNE 2023



Western Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

Central Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

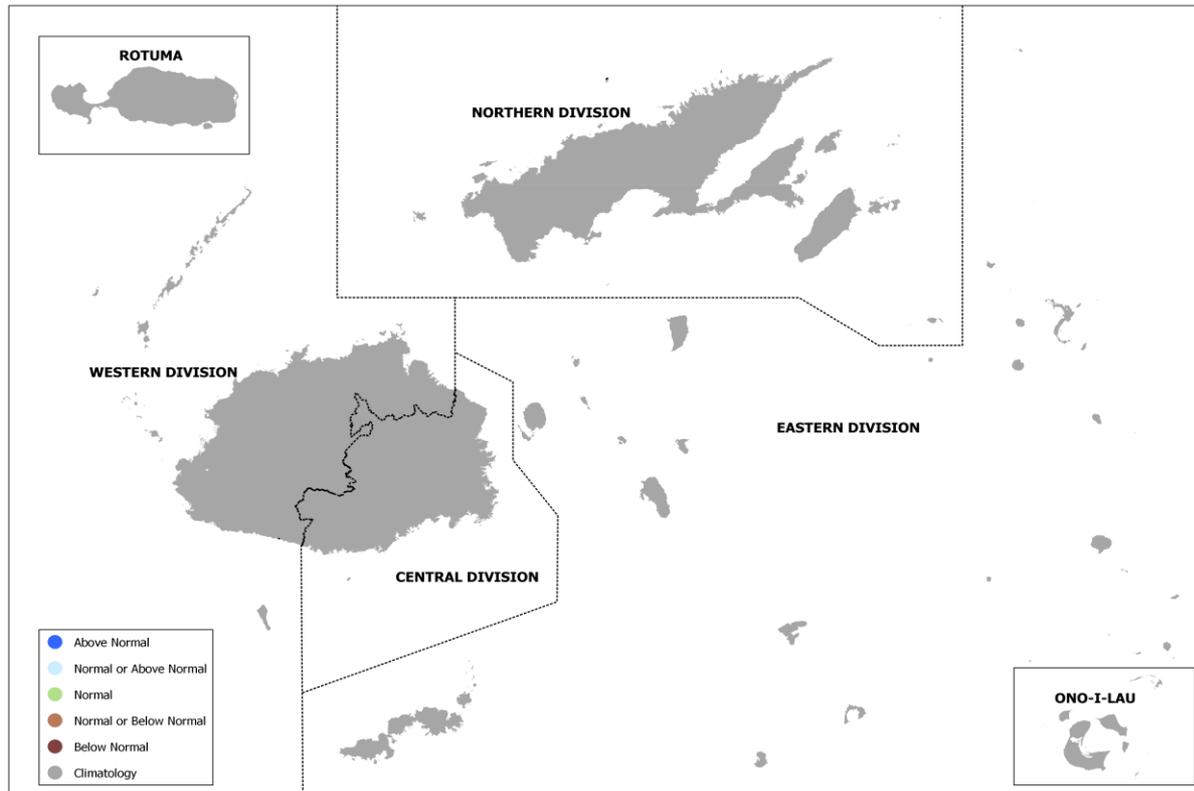
Northern Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

Eastern Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

Rotuma: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

RAINFALL OUTLOOK

JUNE TO AUGUST 2023



Western Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

Central Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

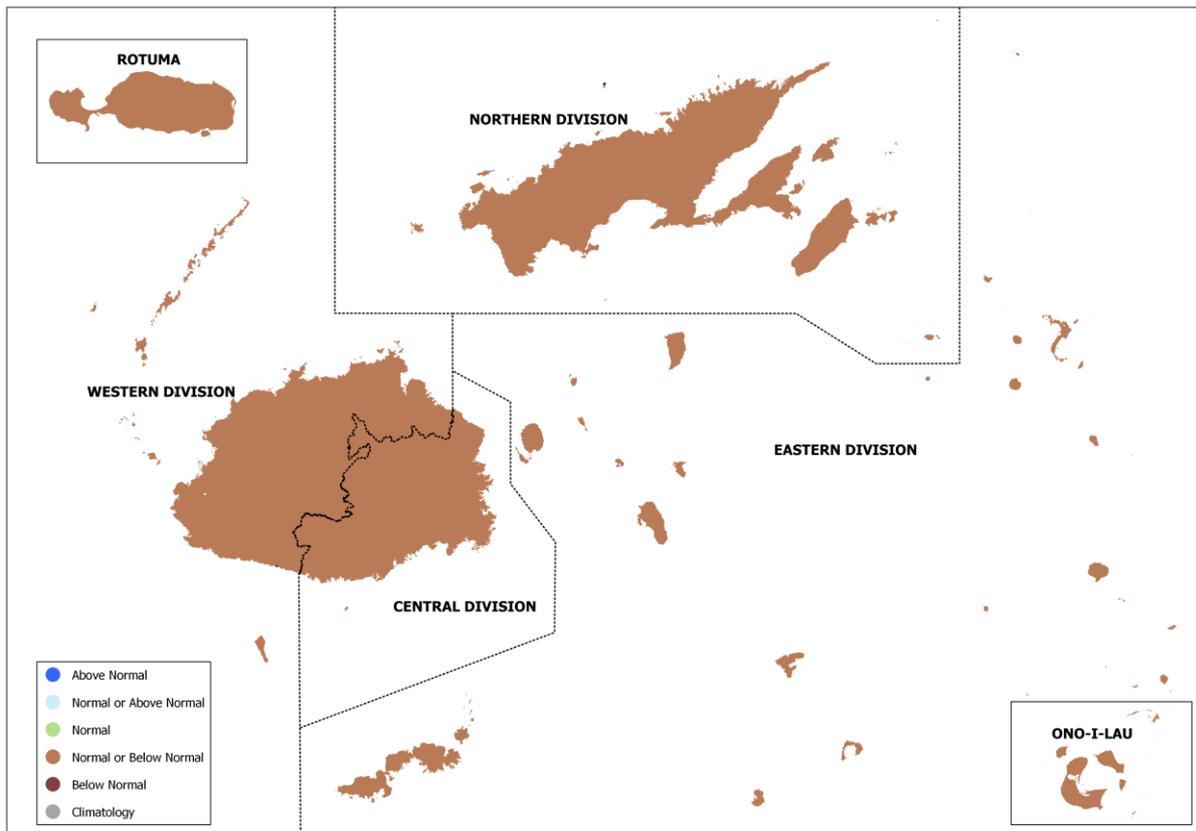
Northern Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

Eastern Division: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

Rotuma: Almost equal chances of *below normal*, *normal* and *above normal* rainfall

RAINFALL OUTLOOK

SEPTEMBER TO NOVEMBER 2023



Western Division: *Normal or below normal* rainfall

Central Division: *Normal or below normal* rainfall

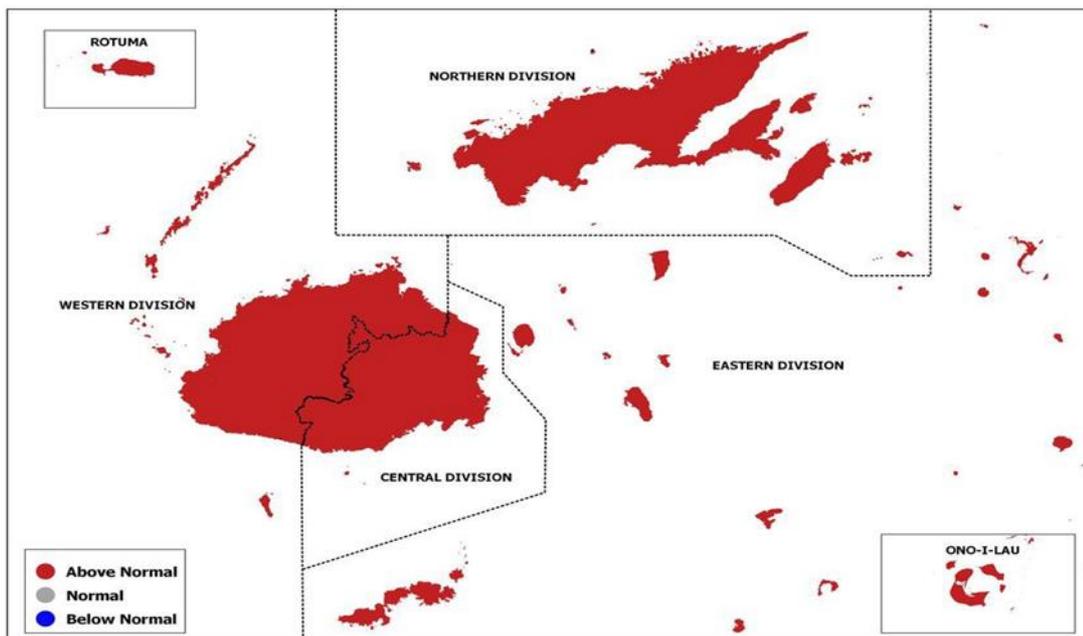
Northern Division: *Normal or below normal* rainfall

Eastern Division: *Normal or below normal* rainfall

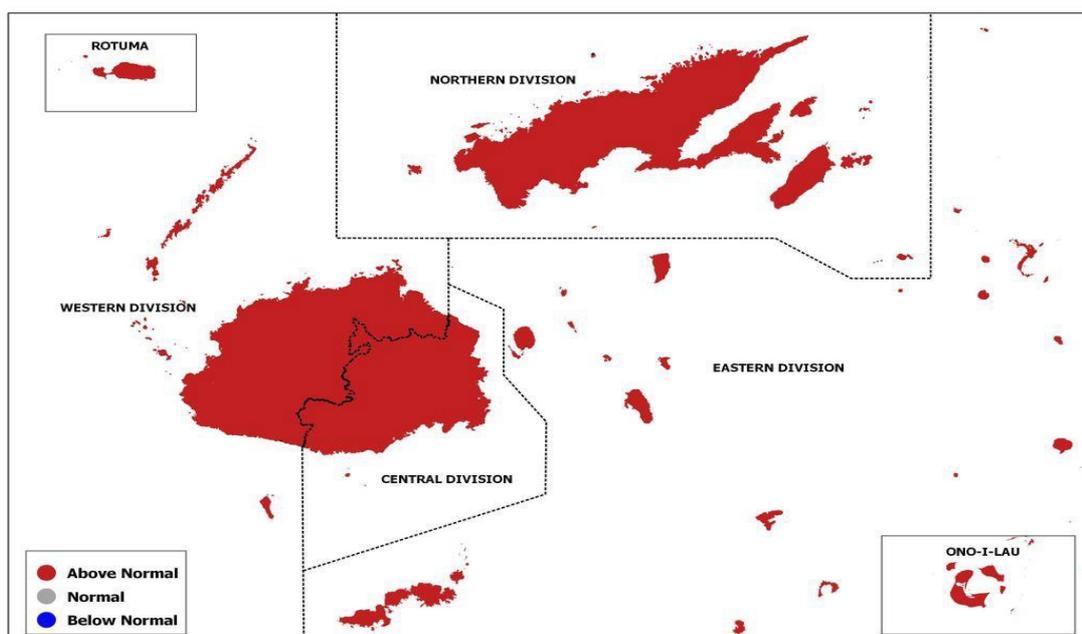
Rotuma: *Normal or below normal* rainfall

AIR TEMPERATURE OUTLOOKS

JUNE 2023

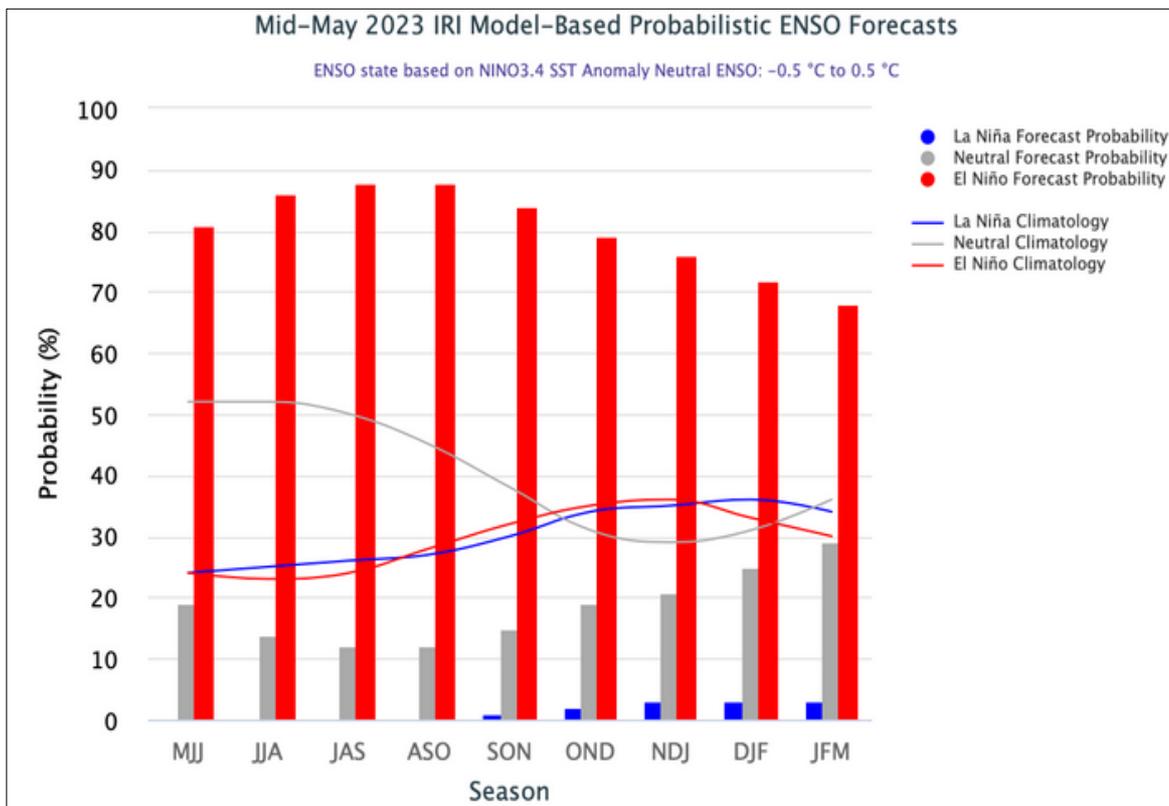


JUNE TO AUGUST 2023



Above normal air temperatures are likely over the Fiji Group during June 2023, and as well as the June to August 2023 season.

EL-NIÑO SOUTHERN OSCILLATION (ENSO)



Source: [International Research Institute for Climate and Society](#)

El-Niño Southern Oscillation (ENSO) is currently in a neutral state, which is neither El-Niño nor La Niña.

Climate models indicate that development of an El Niño event is likely during the June to August 2023 period however, an atmospheric response is also required for an El Niño to be declared.

Little shift has been observed in atmospheric ENSO indicators with trade winds and cloudiness patterns in the Pacific remaining indicative of ENSO-neutral conditions.

The ENSO Outlook is at El Niño Watch. This indicates there are chances of the event happening, with some typical El Niño indicators currently in place.

Fiji usually experiences below normal rainfall during an onset of an El Niño event.

Climate (Rainfall/Air Temperature) Outlook

Above normal – indicates that the rainfall/temperature value lies in the highest third of observation recorded in the standard 30 year normal period.

Near normal – indicates that the rainfall/temperature value lies in the middle third of observation recorded in the standard 30 year normal period.

Below normal – indicates that the rainfall/temperature value lies in the lowest third of observation recorded in the standard 30 year normal period.

Climatology – means that there are almost equal chances of receiving below normal, normal and above normal rainfall. Outlook does not favour one extreme; neither below normal nor above normal.

El Niño Southern Oscillation (ENSO)

ENSO is the principal driver of the year-to-year variability of Fiji's climate. There are two extreme phases of this phenomenon, *El Niño* and *La Niña*.

El Niño or La Niña events are a natural part of the global climate system and usually recur after every 2 to 7 years. It normally develops during the period April to June, attains peak intensity between December to February and decays between April to June period the following year. While most events last for a year, some have persisted for up to 2 years. It should be also noted that no two El Niño or La Niña events are the same. Different events have different impacts, but most exhibit some common climate characteristics.

Usually there is a lag effect on Fiji's climate with ENSO events, that is, once an El Niño or La Niña event is established in the tropical Pacific, it may take 2-6 months before its impact is seen on Fiji. Similarly, once an event finishes, it can take 2-6 months for climate to normalise.

El Niño events are associated with warming of the central and eastern tropical Pacific. El Niño events usually result in reduction of Fiji's rainfall. Often the whole of Fiji is affected in varying degrees and it is quite unusual for one part of the country to experience a prolonged dry spell, while the other is in a wet spell. The relationship and level of rainfall suppression is greater in the Dry Zone than in the Wet Zone. It is the suppression of rainfall during the Cool/Dry Season (May to October) that is normally of most concern. A reduction in Cool/Dry Season rainfall in the Dry Zone results in little or no rainfall until the next Wet Season. While usually the strength of an ENSO event is proportional to its impact on Fiji, at times weak event can also have a significant impact.

La Niña events are associated with cooling of the central and eastern tropical Pacific. Usually La Niña results in wetter than normal conditions for Fiji, occasionally leading to flooding during the Warm/Wet Season (November to April).

When ENSO is neutral, that is, neither El Niño nor La Niña, it has little effect on global climate, meaning other climate influences are more likely to dominate.

Lag effects – means that there is a delay in a change of some aspect of climate due to influence of other factors that is acting slowly.

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