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Kiribati Climate Outlook

November 2021 to January 2022

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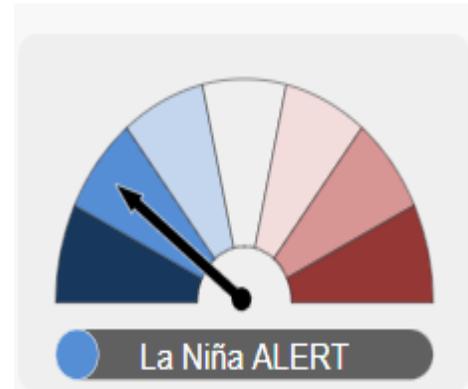
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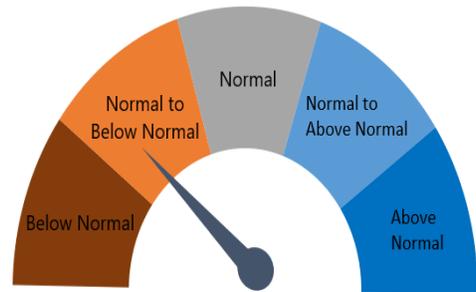
Highlights

ENSO Outlook: The status is La Nina Alert and a weak La Nina is expected towards the end of the year 2021 and continues into early 2022.

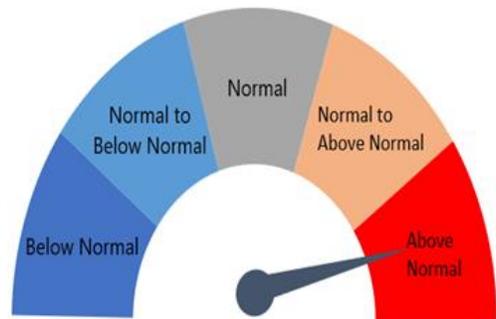
The MJO is predicted to also weak in the coming week to fortnight and will have little influence over the tropical climate.



Rainfall Outlook: Near-equal likelihood of normal to below normal rainfall in Tarawa, Kiritimati, Butaritari and Kanton whereas Normal rainfall is the most likely outcome in Beru and Arorae with Below normal the next most likely.



Air Temperature Outlook: Normal air temperature is likely in the Line and Phoniex group and above normal in western Kiribati.



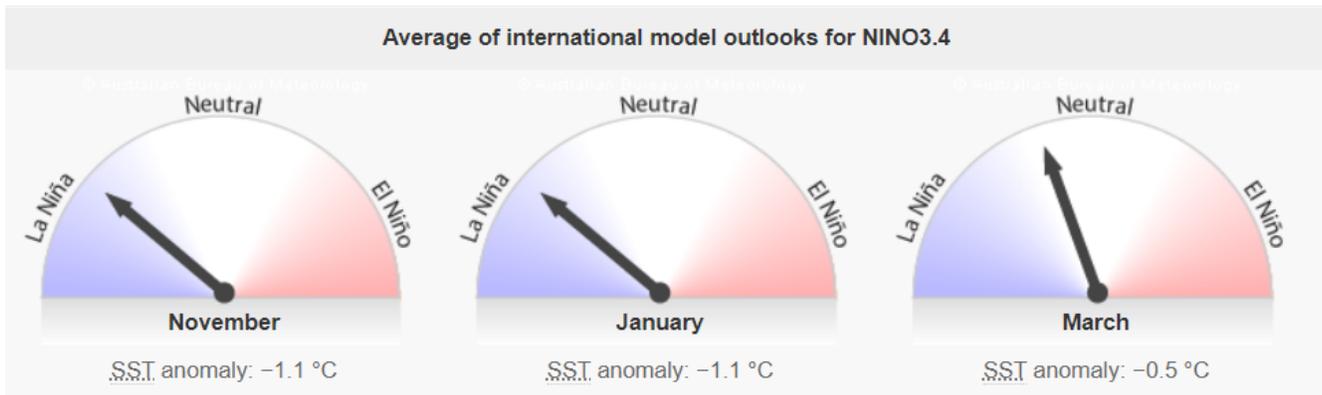
EL NIÑO SOUTHERN OSCILLATION (ENSO) UPDATE

The Bureau's ENSO Outlook is at La Niña ALERT. This is due to continued cooling in the tropical Pacific Ocean. In the past when La Niña ALERT criteria have been met, La Niña has subsequently developed around 70% of the time; this is approximately triple the normal likelihood. La Niña events increases the chances of below normal rainfall over Kiribati islands.

Sea surface temperatures in the central tropical Pacific Ocean have cooled over the past three months, edging closer to La Niña levels. These cooler surface waters are supported by cooler than average waters beneath the surface. Some atmospheric indicators, such as the Southern Oscillation Index (SOI) and cloudiness near the Date Line, are approaching La Niña levels. Most international climate models surveyed by the Bureau indicate weak La Niña conditions are likely for the coming months.

The Madden–Julian Oscillation (MJO) is currently weak or indiscernible. Most models indicate the MJO is likely to remain weak over the coming week to fortnight. When the MJO is weak or indiscernible, it has little influence on tropical climate.

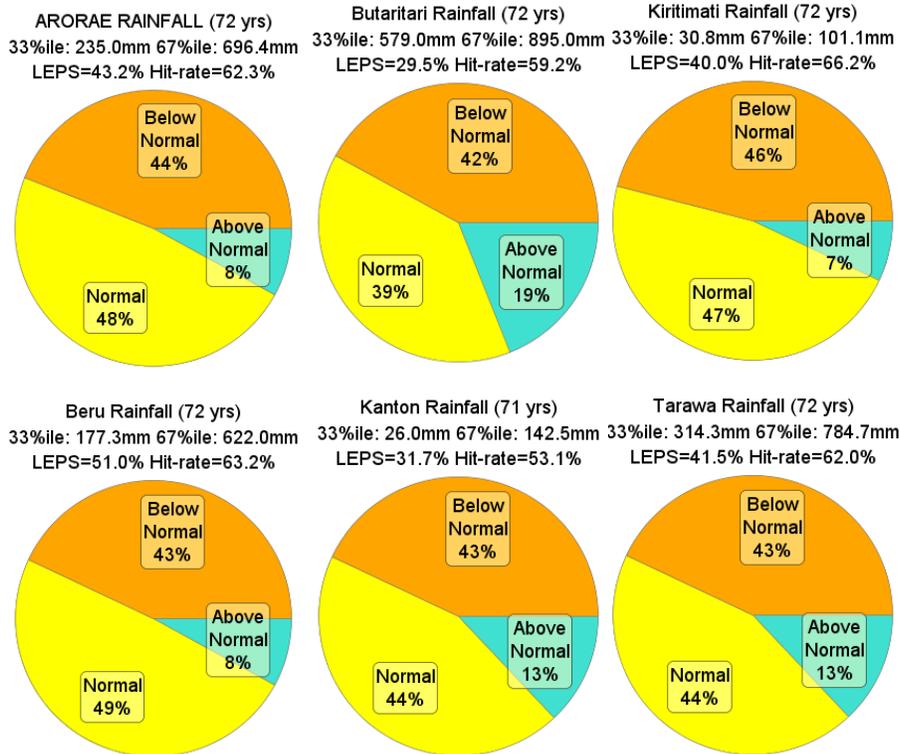
ENSO MODEL OUTLOOK NOVEMBER 2021 TO MARCH 2022



Source: BoM website

RAINFALL OUTLOOK

FORECAST 1 (SCOPIC MODEL) – NOVEMBER TO JANUARY 2021



Seasonal Outlooks for November 2021 to January 2022:

- The outlook for November 2021 to January 2022 shows a **near-equal likelihood of normal and below normal** rainfall in Tarawa, Kanton, Kiritimati and Butaritari.
- Normal is the most likely outcome with Below Normal the next most likely in Arorae and Beru.

RAINFALL OUTLOOK

FORECAST 2 (PICASO MODEL) – NOVEMBER 2021 TO JANUARY 2022

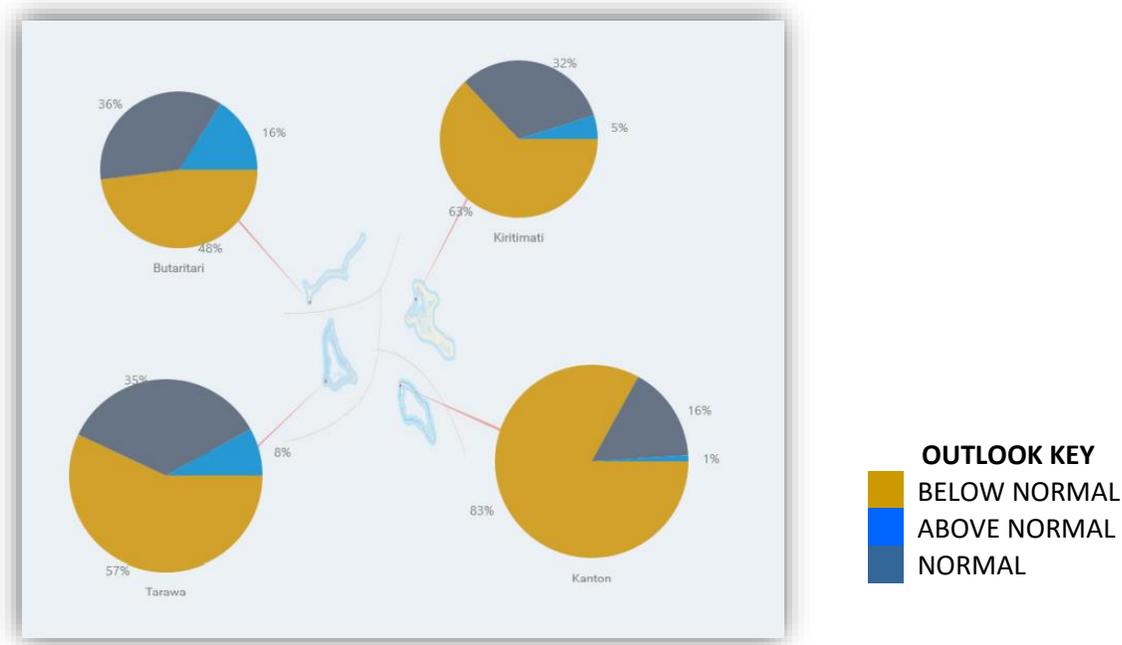


Figure 1 Below normal rainfall is favored for Butaritari, Tarawa, Kiritimati and Kanton from November 2021 to January 2022.

Seasonal Outlooks for November 2021 to January 2022:

- All stations at outer island including Tarawa the capital, rainfall favored for next three months (Nov to Jan 2022) is below normal.

Overall Rainfall Prediction:

In consensus, a near-equal likelihood of normal and below normal rainfall is predicted for Tarawa, Kiritimati, Butaritari and Kanton. This is following the outcome from scopic tool since scopic skill at such season (Nov to Jan) is very high compared to skill of picaso outlook.

Since Beru and Arorae were not reflected in Picaso tool due to data gap- the scopic forecast is then used. Forecast Skill of both island stations in scopic is also very high. Therefore, Normal rainfall is most likely in Arorae and Beru with Below normal the next most likely.

AIR TEMPERATURE OUTLOOK

CLIKP TEMPERATURE FORECAST- NOVEMBER 2021 TO JANUARY 2022

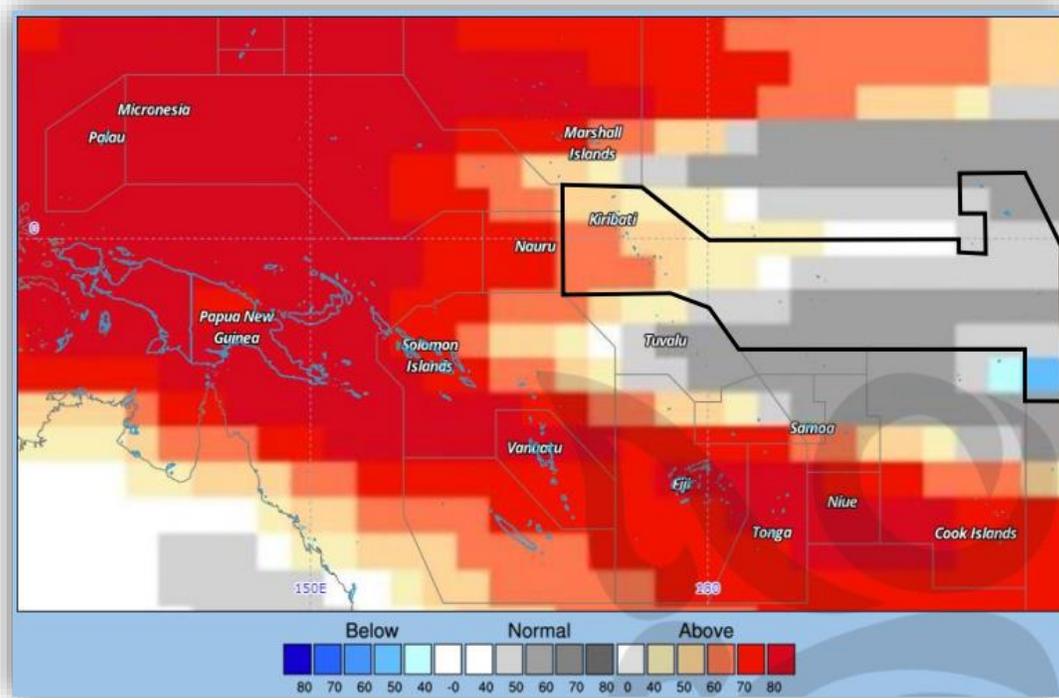


Figure 2: Air temperature outlook from November to January 2022 is expected to be normal across the Line and Phoenix groups while western Kiribati is expecting an above normal.

Air Temperature Outlooks:

- Islands in western Kiribati are expected to have above normal temperature while the rest of the island groups are expecting normal temperature.