

Issued 3<sup>rd</sup> December 2021



# **Kiribati Climate Outlook**

## ***December 2021 to February 2022***

Kiribati Meteorological Service Headquarter, Temakin Betio

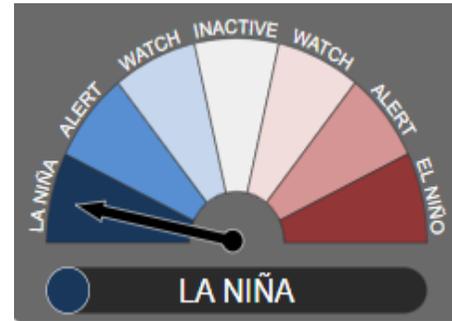
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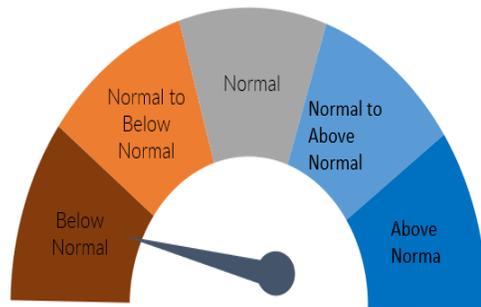
# Highlights

**ENSO Outlook:** La Nina has become established in the tropical Pacific. The Bureau's ENSO Outlook has been raised to **La Nina**. This year's La Nina is suggested to be weak and short-lived and to persist until late February or early May next year 2022.

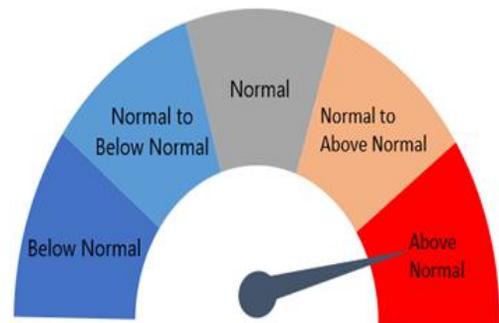


Madden Julian Oscillation which is weak was also predicted to be over western Pacific including Kiribati in the coming fortnight.

**Rainfall Outlook:** Below normal rainfall is favored in Kiribati except for Kiritimati which is likely to get similar chances of below normal and normal rainfall.



**Air Temperature Outlook:** Above normal air temperature is favored over the western Kiribati group while the Line islands favor below normal and normal at the Phoenix islands.



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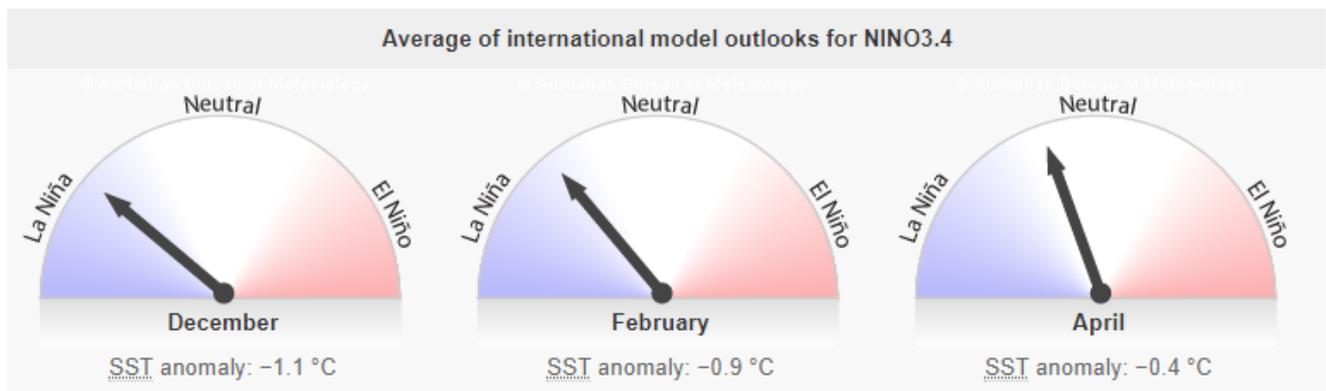
# EI NINO SOUTHERN OSCILLATION (ENSO) UPDATE

La Niña has become established in the tropical Pacific. The Bureau's ENSO Outlook has been raised to LA NIÑA. This La Niña will be short-lived, persisting until the late February or early May 2022.

Several indicators of the El Niño–Southern Oscillation (ENSO) now show clear La Niña patterns. Sea surface temperatures in the tropical Pacific are close to La Niña thresholds with further cooling anticipated in the months ahead. In the atmosphere, cloud and wind patterns are typical of La Niña, indicating the atmosphere is now responding to, and reinforcing, the changes observed in the ocean.

The Madden–Julian Oscillation (MJO) is currently over the Maritime Continent region at weak to moderate strength. The MJO is forecast to progress eastwards across the Maritime Continent and into the western Pacific over the coming fortnight.

## ENSO MODEL OUTLOOK DECEMBER 2021 TO APRIL 2022

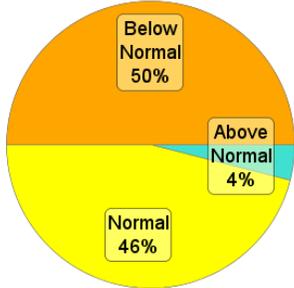


Source: BoM website

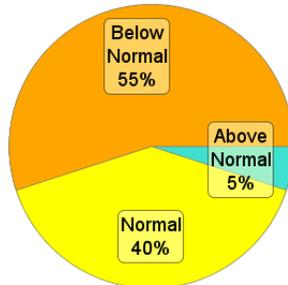
# RAINFALL OUTLOOK

## FORECAST 1 (SCOPIC MODEL) – DECEMBER TO FEBRUARY 2022

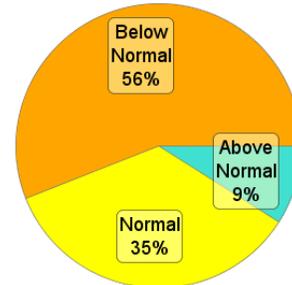
ARORAE RAINFALL (72 yrs)  
33%ile: 260.3mm 67%ile: 715.0mm  
LEPS=44.0% Hit-rate=60.4%



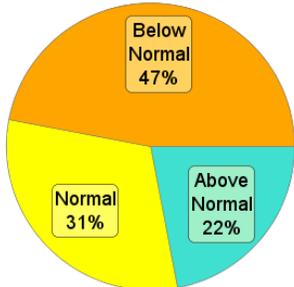
Beru Rainfall (72 yrs)  
33%ile: 161.0mm 67%ile: 729.0mm  
LEPS=47.1% Hit-rate=58.9%



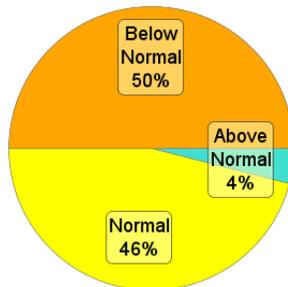
Tarawa Rainfall (72 yrs)  
33%ile: 384.3mm 67%ile: 859.3mm  
LEPS=46.5% Hit-rate=62.0%



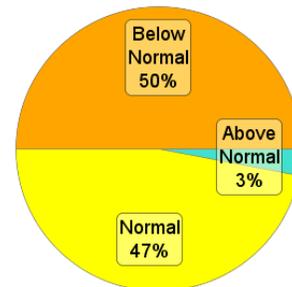
Butaritari Rainfall (72 yrs)  
33%ile: 608.6mm 67%ile: 1060.4mm  
LEPS=17.8% Hit-rate=56.3%



Kanton Rainfall (71 yrs)  
33%ile: 27.8mm 67%ile: 204.0mm  
LEPS=44.7% Hit-rate=60.0%



Kiritimati Rainfall (72 yrs)  
33%ile: 51.4mm 67%ile: 154.0mm  
LEPS=39.5% Hit-rate=52.2%



### Seasonal Outlooks for December 2021 to February 2022:

- Beru, Butaritari, Tarawa, Arorae and Kanton most likely outcome is **Below Normal** rainfall with Normal next most likely.
- Kiritimati shows a near-equal likelihood of below normal and normal rainfall. Above normal rainfall is the least likely outcome.

# RAINFALL OUTLOOK

FORECAST 2 (PICASO MODEL) – DECEMBER 2021 TO FEBRUARY 2022

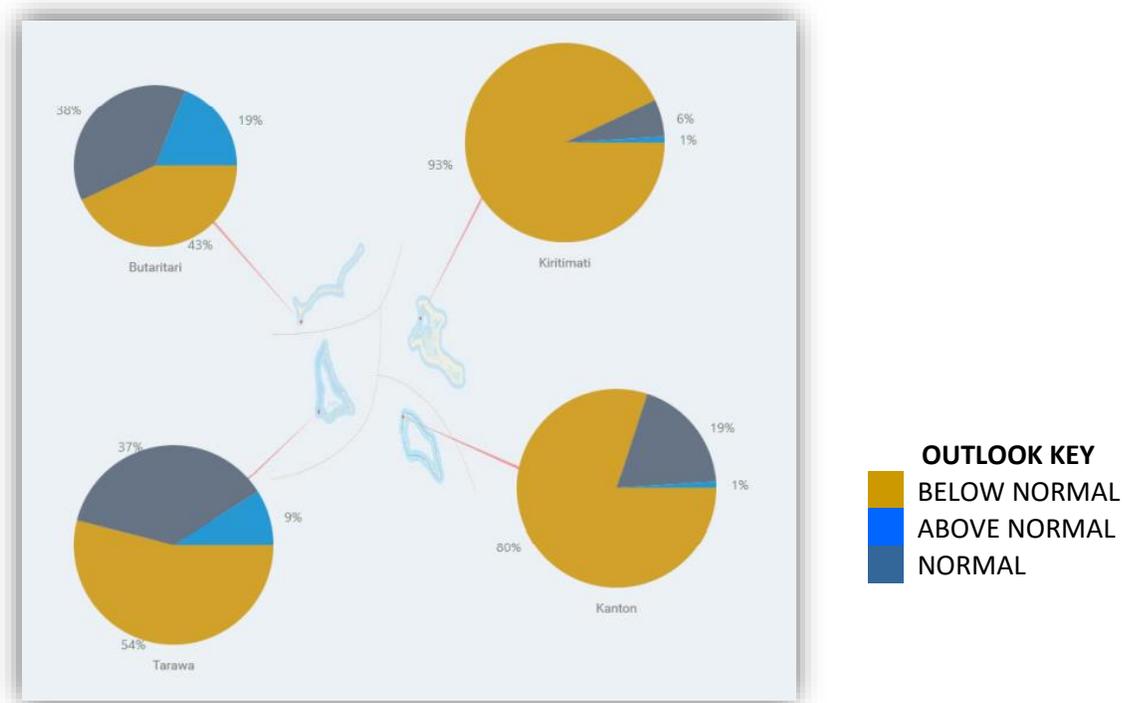


Figure 1 Below normal rainfall is favored at all stations for the December to February 2022 months.

## Seasonal Outlooks for December 2021 to February 2022:

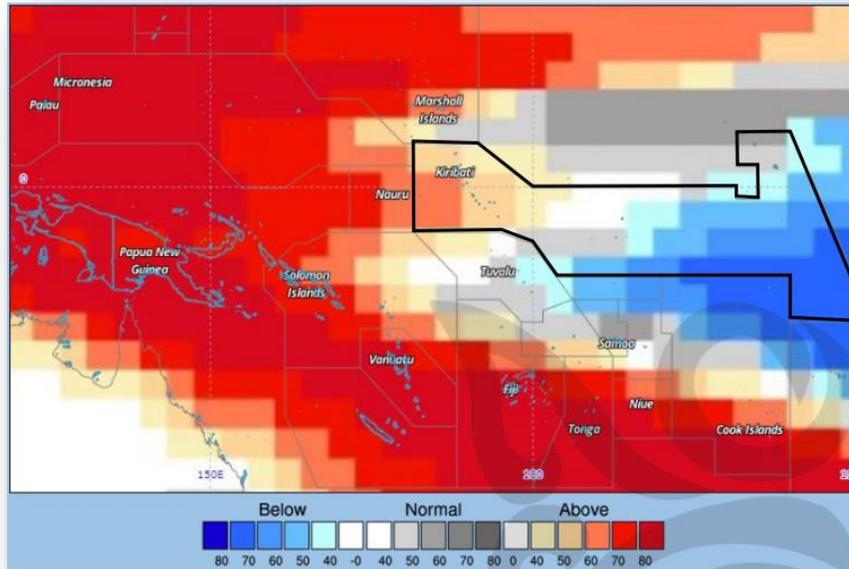
- All stations favor below normal rainfall for next three months (Dec to Feb 2022).

## Overall Rainfall Prediction:

Prediction tools (scopic and picaso) used at this time agrees on the same forecast and that they both favor the below normal rainfall at all monitored stations except for Kiritimati which has similar chances of getting below normal and normal (scopic) but higher chance of below normal in picaso.

# AIR TEMPERATURE OUTLOOK

CLIKP TEMPERATURE FORECAST- DECEMBER 2021 TO FEBRUARY 2022



**Figure 2:** Air temperature outlook from December to February 2022 is expected to be normal at the Line group, normal at Phoenix islands and above normal at western Kiribati group.

## Air Temperature Outlooks:

- Above normal air temperature is favored at western Kiribati group, normal at Phoenix islands and below normal at the Line islands.