



Kiribati Meteorological Service
Member of WMO

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Outline:

1. Climate Outlook Summary
2. ENSO Update
3. Rainfall Outlooks for 3months period.
4. Regional rainfall maps for 3months period.

Important Notes:

The forecast confidence score has been categorised as follows:

Very Low: $X < 0.0$, Low: $0 \leq X < 5$
Moderate $5 \leq X < 10$, Good: $10 \leq X < 15$, High: $15 \leq X < 25$, Very High: $25 \leq X < 35$, Exceptional: $X \geq 35$

ENSO Active Periods based on Historical data:

April to June– months it tends to develop in.

October to February– tends to reach their maximum strength when developed.

Typically persists for 9-12 months, though occasionally persisting for up to 2 years

Typically recur every 2 to 7 years.



Kiribati Climate Outlook

February to April 2020

Kiribati Meteorological Service Division
Office of Te Beretitenti

1. CLIMATE OUTLOOK SUMMARY

February 2020

El Nino Southern Oscillation (ENSO) Outlook: Remains Neutral and expected to continue until end of May this year.

February to April 2020 (FMA) Rainfall Prediction: Normal to above normal rainfall is expected in Tarawa while the rest of the islands were expecting above normal. The outlook skill in on average is high.

2. EI NINO - SOUTHERN OSCILLATION (ENSO) UPDATE

The El Niño–Southern Oscillation (ENSO) is neutral, and likely to remain so at least until the end of May. However, tropical waters near and to the west of the Date Line remain warmer than average. Additionally, tropical cyclone Tino, in combination with the passage of the Madden-Julian Oscillation, has provided a burst of westerly winds in the western Pacific, with potential to further warm parts of the western Pacific in the coming week or two. Most climate models indicate ENSO will remain neutral until at least the end of May.

February to June 2020 Sea Surface Temperature:

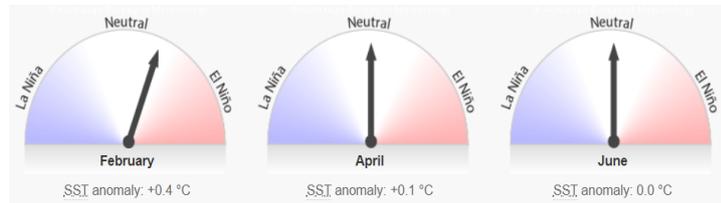


Fig 1: red color on the dial above reflects warmer temperature in the ocean, blue reflects cooler temperature and white is neutral.

3. FEBRUARY TO APRIL 2020 RAINFALL OUTLOOKS

Beru– February to April 2020

The most likely outcome is **above-normal** rainfall for next three months.

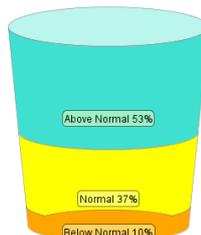
Forecast confidence is exceptional.

3 months rainfall ranges:

Above normal >439.7mm

Normal >111.7mm, <439.7mm

Below normal <111.7mm



Butaritari– February to April 2020

The most likely outcome is **above-normal** rainfall with normal the next most likely.

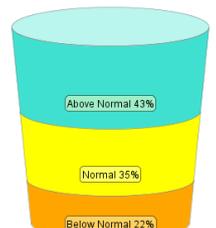
Forecast confidence is good.

3 months rainfall ranges:

Above normal >1125mm

Normal >669.7mm <1125mm

Below normal <669.7mm



FEBRUARY TO APRIL RAINFALL OUTLOOKS:

Kanton– February to April 2020

The most likely outcome is **above-normal** rainfall for next three months.

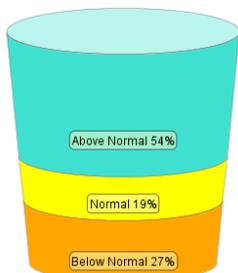
Forecast confidence is high.

3 months rainfall ranges:

Above normal >207.9mm

Normal >86.1mm,<207.9mm

Below normal <86.1mm



Kiritimati– February to April 2020

The most likely outcome is **above-normal** for next three months.

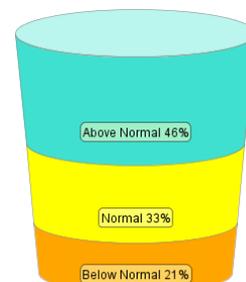
Forecast confidence is high.

3 months rainfall ranges:

Above normal >445.9mm

Normal >272.5mm,<445.9mm

Below normal <272.5mm



Tarawa– February to April 2020

The forecast shows similar chances of above normal and normal rainfall; below normal is the least likely outcome.

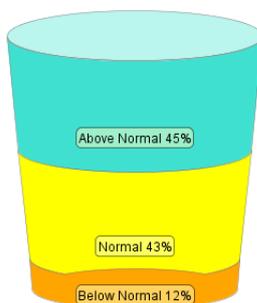
Forecast confidence is high.

3 months rainfall ranges:

Above normal >863.7mm

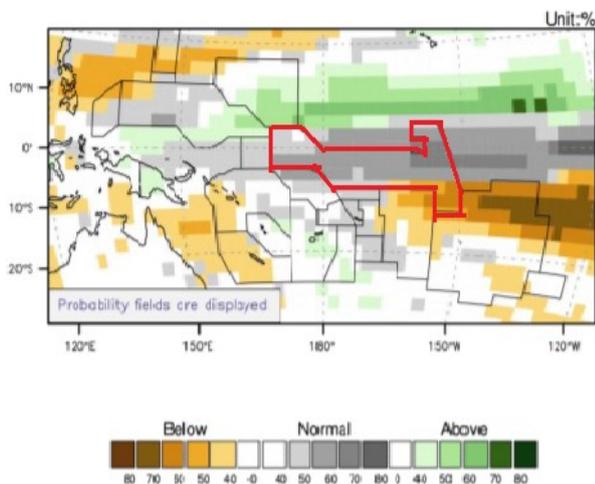
Normal >337mm,<863.7mm

Below normal <337mm



4. KIRIBATI RAINFALL MAP FOR FEBRUARY TO APRIL 2020

Precipitation for February-April 2020



Heidke Skill Score : PREC, FMA (1991-2010)

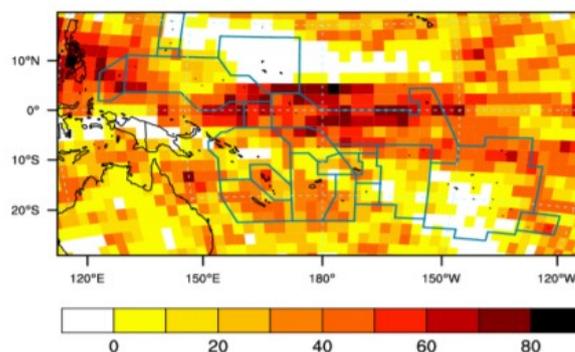


Fig 1: The outlook for Kiribati islands as outlined in red on the left image shows the likely outcome for rainfall from **February to April 2020; normal rainfall** is expected for all of the groups. The **skill of the outlook** as shown in the image on the right shows that within the Kiribati groups is **high** by 50 to 70 percentage of accuracy to be scored.

This summary report is prepared as soon as possible by the end of the month, once climate data completed from the operational meteorological stations around Kiribati together with the ENSO information which is received from various Meteorological Agencies around the world. Every effort is made to verify observational data. The Kiribati Meteorological Service does not guarantee the accuracy and reliability of the analysis and rainfall predictions presented, and accepts no liability for any losses incurred through the use of this summary and its contents. The contents of the summary may be freely disseminated provided the source is acknowledged. All enquiries on this report should be directed to the Kiribati Meteorological Service HQ at Temakin Betio. For further information please contact: Director, Kiribati Meteorological Services (686) 75126511 Email dmet@met.gov.ki