



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.



Australian Government
Bureau of Meteorology

NIWA
Taihoro Nukurangi

Kiribati Climate Outlook

February to April 2019

Kiribati Meteorological Service Division
Office of Te Beretitenti

1. CLIMATE OUTLOOK SUMMARY

February 2019

El Nino Southern Oscillation (ENSO) Outlook– *El Nino is in Watch level with possibility of El Nino remains but by mid– 2019.*

February to April 2019 Rainfall Prediction:

Most climate models predict above normal rainfall in the Kiribati region except for the Phoenix islands which is predicted to have normal rainfall (details of each models given below). Level of skill in the forecast is ranging from good to exceptional.

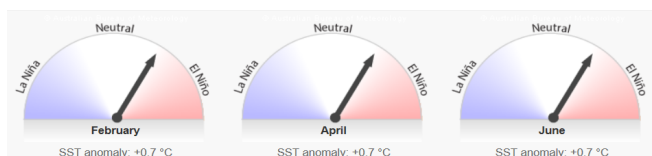
2. EI NINO - SOUTHERN OSCILLATION (ENSO) UPDATE

The El Niño–Southern Oscillation (ENSO) is currently neutral. However, the Bureau's ENSO Outlook remains at El Niño WATCH, meaning there is approximately a 50% chance (updated- 5th of February 2019) of El Niño developing during the March to May or June to August seasons this year.

ENSO-neutral sea surface temperatures will continue through March to May. The current ocean warmth, and the forecast for warmer than normal sea surface temperatures later in the year, means the possibility of El Niño remains, but by mid-2019.

It should be noted that the March to May outlook tend to have lower accuracy than outlooks issued at other times of the year. This means outlooks beyond May should be used with some caution.

ENSO Outlook for February, April and June 2019



The arrows on the dials above indicate the combined average of monthly NINO3.4 outlooks from a survey of international global climate models. Note that the individual model runs vary around the average.

3. RAINFALL OUTLOOK FOR 3 MONTHS PERIOD - SCOPIC OUTLOOK

Butaritari (February to April 2019)

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

Forecast confidence is good.

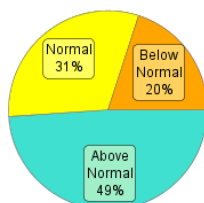
3 months rainfall ranges:

Above normal >1115mm

Normal > 669mm

but<1115mm

Below normal <669mm



Tarawa

(February to April 2019)

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

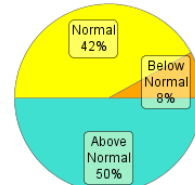
Forecast confidence is high.

3 months rainfall ranges:

Above normal >841.2mm

Normal >323.1mm but <841.2mm

Below normal <323.1mm



SCOPIC OUTLOOK

Beru

(February to April 2019)

The most likely outcome is Above normal for next three months.

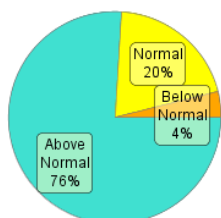
Forecast confidence is exceptional.

3 months rainfall ranges:

Above normal >414mm

Normal >111.3mm, <414mm

Below normal <111.3mm



Kiritimati

(February to April 2019)

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

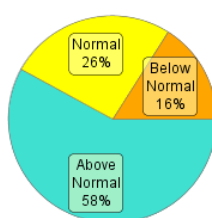
Forecast confidence is high.

3 months rainfall ranges:

Above normal >447.1mm

Normal >271mm but <447.1mm

Below normal <271mm



Kanton

(February to April 2019)

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

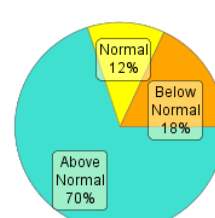
Forecast confidence is high.

3 months rainfall ranges:

Above normal > 207.9mm

Normal >86.1mm but <207.9mm

Below normal <86.1mm



4. ISLAND CLIMATE UPDATE OUTLOOK

Kiribati Groups

The most likely outcome is above normal for all islands of Kiribati.

Forecast skill is high for both Line and Gilbert groups and Moderate to High over Phoenix group.

Island	Below	Normal	Above	Outlook	Forecast Skill
Line islands	5	15	80	Above	High
Phoenix	20	20	60	Above	Moderate-High
Gilbert	8	11	81	Above	High

5. REGIONAL RAINFALL OUTLOOK MAPS FOR 3 MONTHS PERIOD

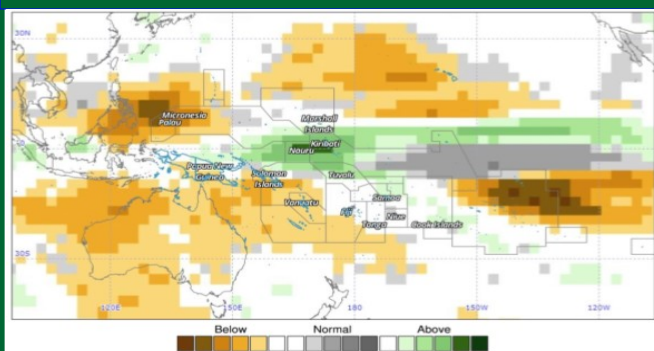


Fig 1. APCC Outlook: Above Normal is expected over the Gilbert and Line and Normal over the Phoenix groups.

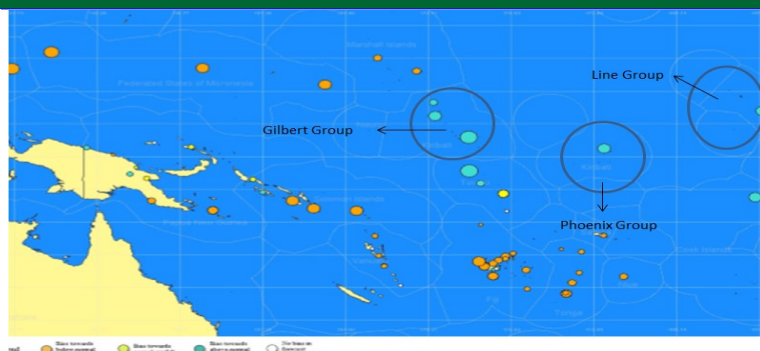


Fig 2. SCOPIC Outlook: Above Normal rainfall is expected in Gilbert, Phoenix and Line Islands.

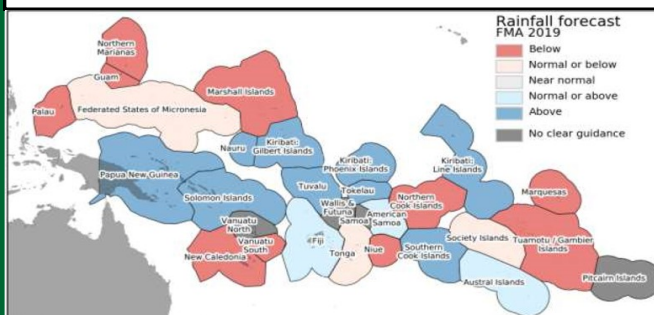


Fig 3. Island Climate Update Outlook: Above normal rainfall over all of Kiribati islands.

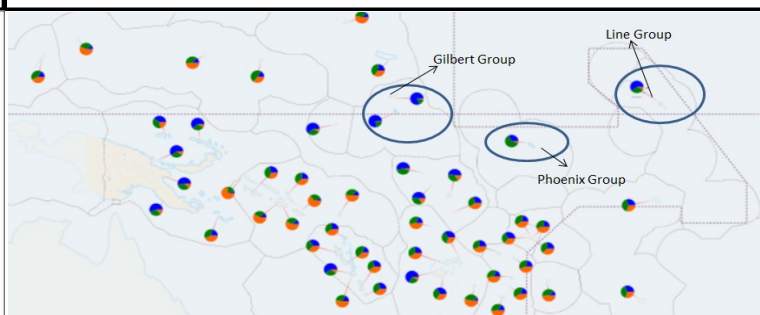


Fig 4. PICASO Outlook: Above normal rainfall is expected over Gilbert and Line groups and Normal over Phoenix group.

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: Chief Meteorological Officer, Kiribati Meteorological Services (686) 75126511 Email cmo@met.gov.ki