

Issued 1st April 2021



Kiribati Climate Outlook

April to June 2021

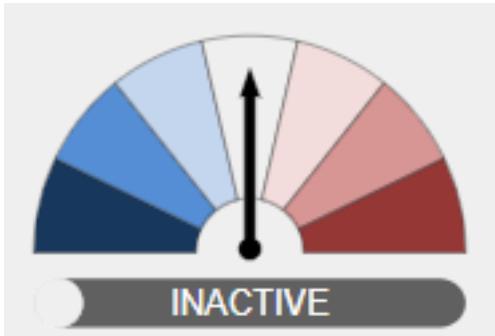
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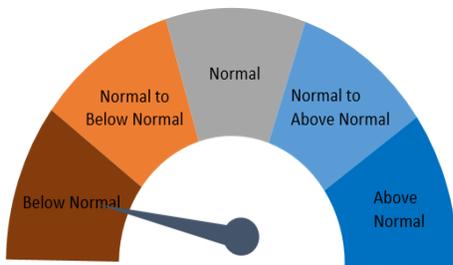
Highlights



ENSO Outlook

ENSO Outlook:

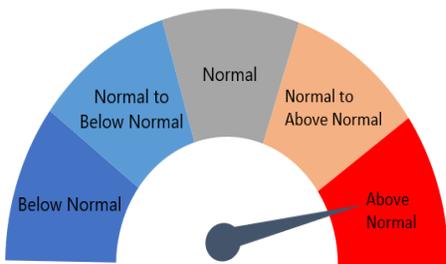
- La Nina has come to an end and now returns to Neutral condition. It is forecasted to be at Neutral levels at least until August 2021.
 - Another climate driver influences over the Pacific and Kiribati which is the MJO is expected to be over western Pacific in the coming weeks and expected to enhance rainfall when exists.



Rainfall outlook

Rainfall Outlook:

- **Below Normal rainfall** is the most likely condition in all parts of Kiribati for April to June 2021.



Air Temperature Outlook

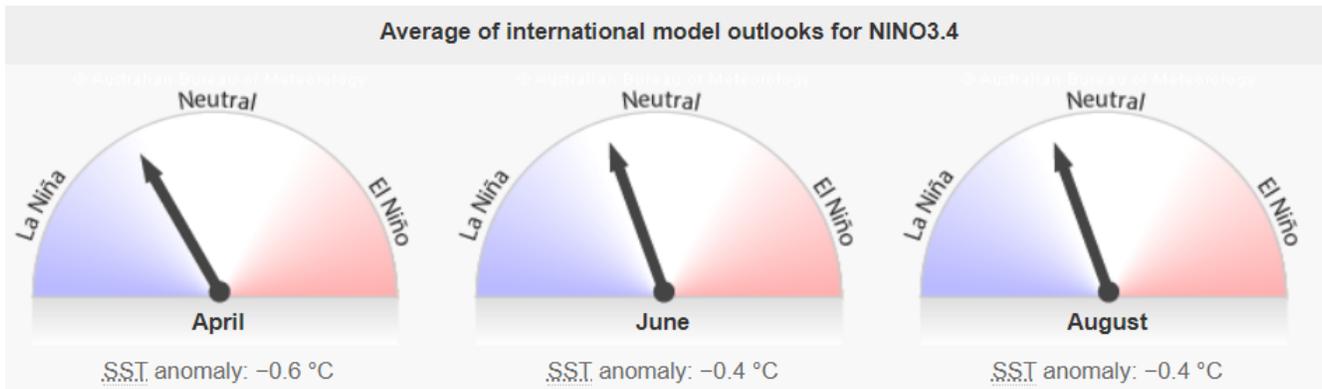
Air Temperature Outlook:

- Gilbert group is expected to be warmer than the Line and Phoenix groups for April to June 2021.

EL NIÑO SOUTHERN OSCILLATION (ENSO) UPDATE

- The ENSO Outlook has moved from La Nina to Inactive or Neutral condition. The outlook for ENSO phase is expected to remain in neutral at least until August 2021.
- Apart the ENSO phase another monitored climate driver which is the MJO which can influence rainfall conditions as well is forecasted to be well over western Pacific for next coming weeks and is expected to be strong in the first week of April and weakening afterwards. MJO enhances rainfall over Kiribati when moving over western Pacific and the opposite impact when moving out of the western Pacific region.

ENSO MODEL OUTLOOK FOR APRIL – AUGUST 2021



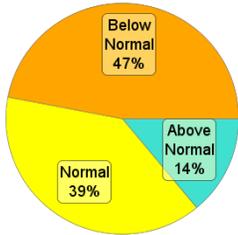
Source: BoM website

RAINFALL OUTLOOK

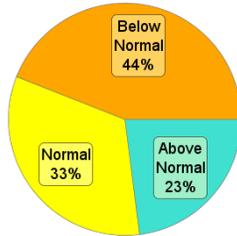
FORECAST 1 (SCOPIC MODEL) - APRIL TO JUNE 2021

Gilbert Group

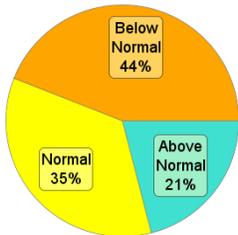
ARORAE RAINFALL (72 yrs)
33%ile: 241.0mm 67%ile: 515.0mm
LEPS=7.2% Hit-rate=44.2%



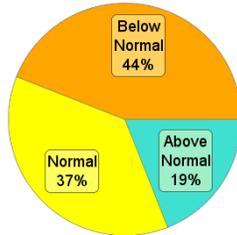
Beru Rainfall (72 yrs)
33%ile: 178.7mm 67%ile: 341.7mm
LEPS=4.8% Hit-rate=45.6%



Butaritari Rainfall (72 yrs)
33%ile: 709.3mm 67%ile: 1007.7mm
LEPS=6.6% Hit-rate=47.1%

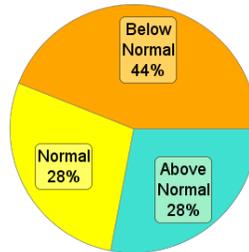


Tarawa Rainfall (72 yrs)
33%ile: 315.2mm 67%ile: 578.7mm
LEPS=7.8% Hit-rate=46.5%



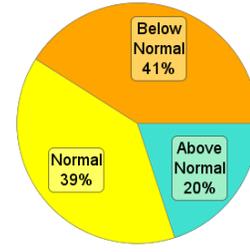
Line islands:

Kiritimati Rainfall (72 yrs)
33%ile: 217.0mm 67%ile: 420.0mm
LEPS=2.5% Hit-rate=24.3%



Phoenix islands:

Kanton Rainfall (71 yrs)
33%ile: 180.7mm 67%ile: 284.4mm
LEPS=5.7% Hit-rate=28.3%



Gilbert Group:

- Butaritari- Below normal rainfall with normal next most likely.
- Tarawa- Below normal rainfall with normal next most likely.
- Beru- Below normal rainfall with normal next most likely.
- Arorae- Below normal rainfall with normal next most likely.

Line Group:

- Kiritimati- Below normal rainfall is most likely.

Phoenix Group:

- Kanton- Near-equal likelihood of below normal and normal rainfall.

RAINFALL OUTLOOK

FORECAST 2 (PICASO MODEL) – APRIL TO JUNE 2021

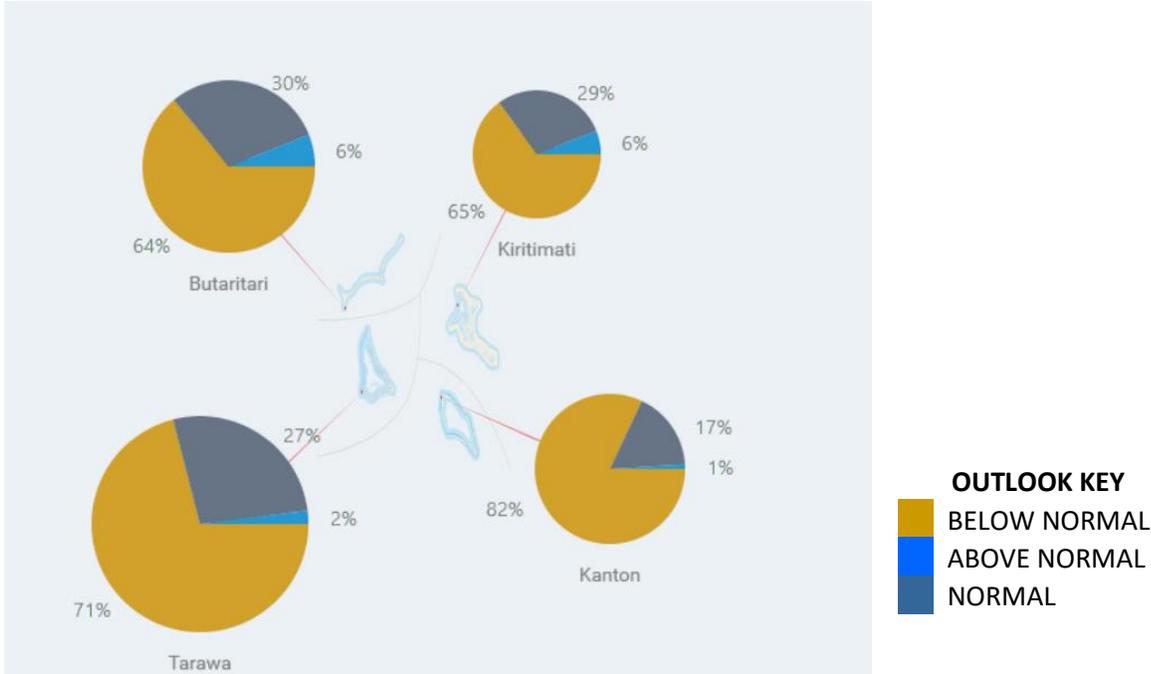


Figure 1 All Met stations expects below normal rainfall for next three months- from April to June 2021. The bigger the pies the higher the accuracy of rainfall forecasts.

Gilbert Group:

- Butaritari- Below Normal rainfall.
- Tarawa- Below Normal rainfall.

Line Islands

- Kiritimati- Below Normal rainfall

Phoenix islands

- Kanton- Below Normal rainfall.

Overall Rainfall Prediction:

In the overall prediction it was very clear and certain of the PICASO model in its outlook that most of the stations were to favor below normal rainfall. With SCOPIC tool the probabilities were very close however the most outstanding prediction or higher probabilities was the below normal category. We could conclude then that the April to June 2021 rainfall outlook expects **Below Normal** rainfall.

AIR TEMPERATURE OUTLOOK

CLIKP TEMPERATURE FORECAST- APRIL TO JUNE 2021

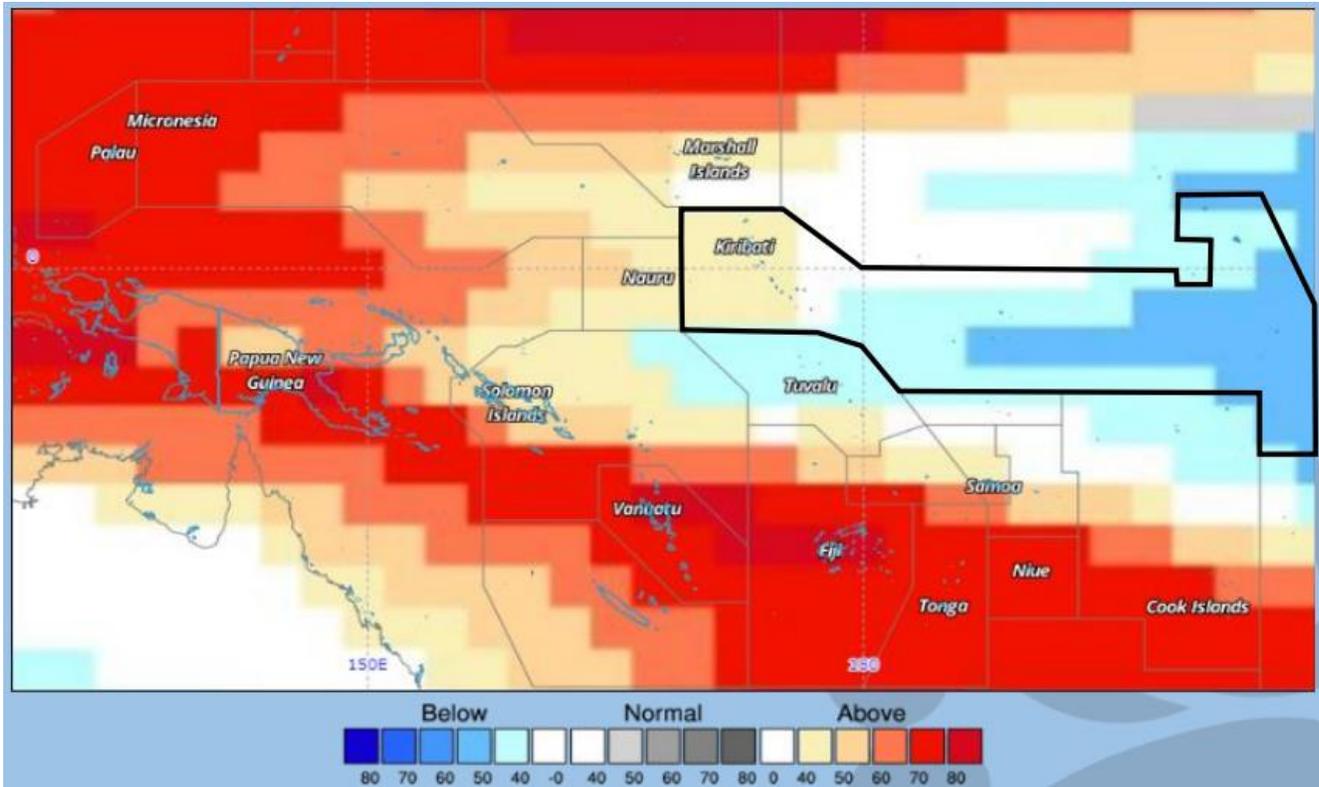


Figure 2: The above map is an output from clikp model on the forecasted air temperature for April to June 2021. As shown Kiribati is in the outlined black box and as clearly seen the Gilbert group will expect above normal air temperature while the Line and Phoenix groups expect below normal temperature. This means that Gilbert group air temperature will be warmer than the Line and Phoenix groups. Also, the probability of the forecasts across the groups is low by 40 to 50% chance.

Gilbert Group:

- Above Normal temperature.

Phoenix Group:

- Below Normal temperature.

Line Group:

- Below Normal temperature.

Overall Temperature Outlook:

The Air temperature over the Gilbert group is expected to be warmer than the Line and Phoenix groups for April to June 2021.