



# KIRIBATI EARLY ACTION RAINFALL WATCH- AUGUST 2021

## Summary Statement

The monitored stations record in rainfall were showing some significant changes in rainfall condition over the past months.

Kiritimati lifted its 3 months condition from being in seriously dry to a warning level. Other months (6-, 12- and 24-months index) remain seriously dry.

Beru also lifted its 12 months from seriously dry to warning level.

Butaritari improves from watch to no alert in its 12 months index. The 3 months for Butaritari exceeded the threshold values and now reaching the very wet condition.

Tarawa condition remains the same as of last month.

## Time series with Possible impacts

**Drought under 3 months** affects rainwater tanks and wells (quality decreases), influenza, eye diseases e.g., red eye, diarrhea, water borne diseases.

**Drought under 6 months** affects wells near coastlines are brackish and slight increase in salinity at the Bonriki water reserve, skin diseases, crop pest outbreak and livestock production decreases.

**Drought under 12 months** affects fish mortality rate due to increase in seawater salinity, smaller fruits size, bush fires in coconut trees and toddy production decreases.

**Drought under 24 months** affects groundwater, national water rationing and deep-rooted trees.

## Rainfall status ended in July 2021.

*Table 1: Shows rainfall status from the past 2 years to current 3 months of all stations. Record gained from the stations ended in July were changing some of the rainfall status with only Kiritimati that remains in seriously dry condition for its 6, 12 and 24 months indices.*

Station	3- months index	6- months index	12- months index	24- months index	
Tarawa					
Kiritimati					
Beru					
Butaritari					
Key	Seriously dry	Warning	Watch	No alert	Very wet
Color Code					

### *3 months, May to July 2021:*

- Kiritimati lifted from seriously dry to warning level and Butaritari exceeded the no alert level and reaches the very wet condition.
- Remaining stations were in no alert status.

### *6 months, February 2021 to July 2021:*

- Seriously dry in Kiritimati, watch in Tarawa and Beru and no alert in Butaritari.

### *12 months July 2020 to July 2021:*

- Seriously dry in Kiritimati, Tarawa remains in warning, Beru lifted from seriously dry to warning and Butaritari is lifted from watch to no alert level.

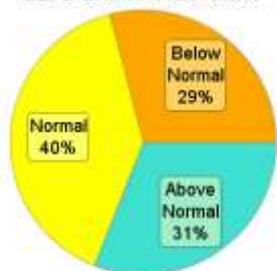
### *24 months July 2019 to July 2021:*

- Seriously dry in Kiritimati, watch in Tarawa and Beru and no alert in Butaritari.

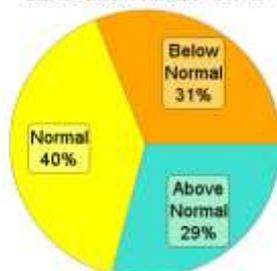
## Rainfall Outlooks for 3 and 6 months.

### August to October 2021:

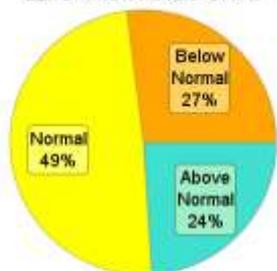
Butaritari Rainfall (72 yrs)  
33%ile: 392.8mm 67%ile: 630.2mm  
LEPS=27.5% Hit-rate=50.0%



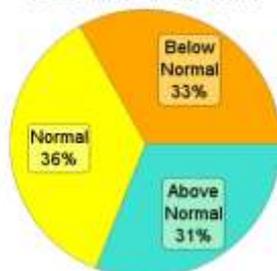
Beru Rainfall (72 yrs)  
33%ile: 114.0mm 67%ile: 196.9mm  
LEPS=25.8% Hit-rate=54.4%



Tarawa Rainfall (72 yrs)  
33%ile: 202.7mm 67%ile: 405.5mm  
LEPS=41.6% Hit-rate=57.7%



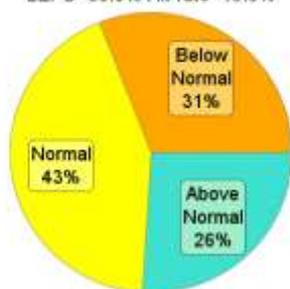
Kiritimati Rainfall (72 yrs)  
33%ile: 26.8mm 67%ile: 58.0mm  
LEPS=7.7% Hit-rate=45.7%



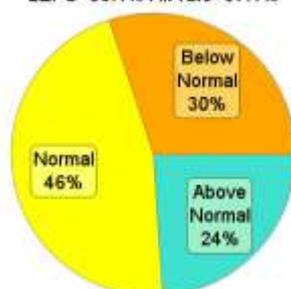
**August to October 2021 Rainfall Outlooks:** Normal rainfall is the most likely condition over Tarawa in August to October 2021. Remaining stations have similar chances in getting normal, below normal, and above normal rainfall, hence no outstanding prediction in their rainfall.

### August 2021 to January 2022:

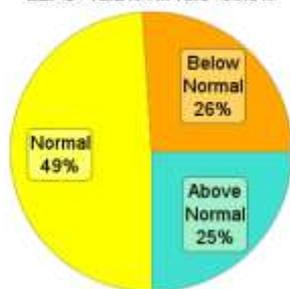
Butaritari Rainfall (72 yrs)  
33%ile: 928.3mm 67%ile: 1542.0mm  
LEPS=30.3% Hit-rate=49.3%



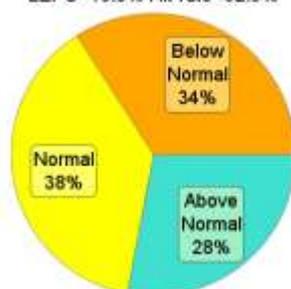
Beru Rainfall (72 yrs)  
33%ile: 314.7mm 67%ile: 794.7mm  
LEPS=36.4% Hit-rate=57.1%



Tarawa Rainfall (72 yrs)  
33%ile: 574.3mm 67%ile: 1206.3mm  
LEPS=42.2% Hit-rate=56.3%



Kiritimati Rainfall (72 yrs)  
33%ile: 62.0mm 67%ile: 176.1mm  
LEPS=16.9% Hit-rate=52.9%



**August 2021 to January 2022 Rainfall Outlooks:** Normal rainfall is the most likely outcome for Butaritari, Beru and Tarawa. Kiritimati is mixed between getting normal and below normal rainfall in its forecast.