



ICPAC

PERFORMANCE OF MAM 2021 SEASONAL CLIMATE OVER THE GREATER HORN OF AFRICA

**THE FIFTY EIGHTH GREATER HORN OF AFRICA CLIMATE OUTLOOK FORUM
(GHACOF 58) FOR THE JUNE TO SEPTEMBER (JJAS) 2021 SEASON**

Hussen Seid and Paulino Omay

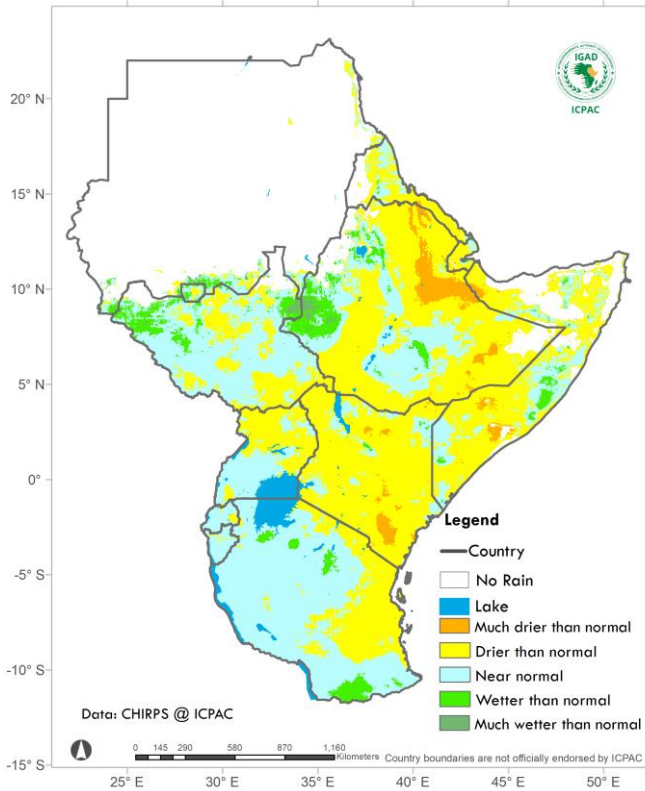
IGAD Climate Prediction and Applications Centre (ICPAC)



MAM PERFORMANCE – PERCENTAGE OF NORMAL

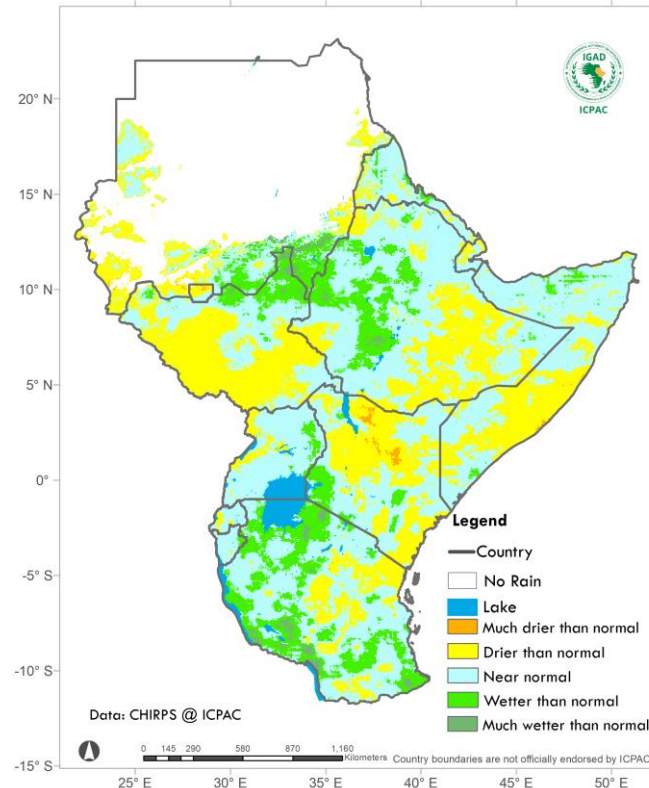
March

% LTM for March 2021



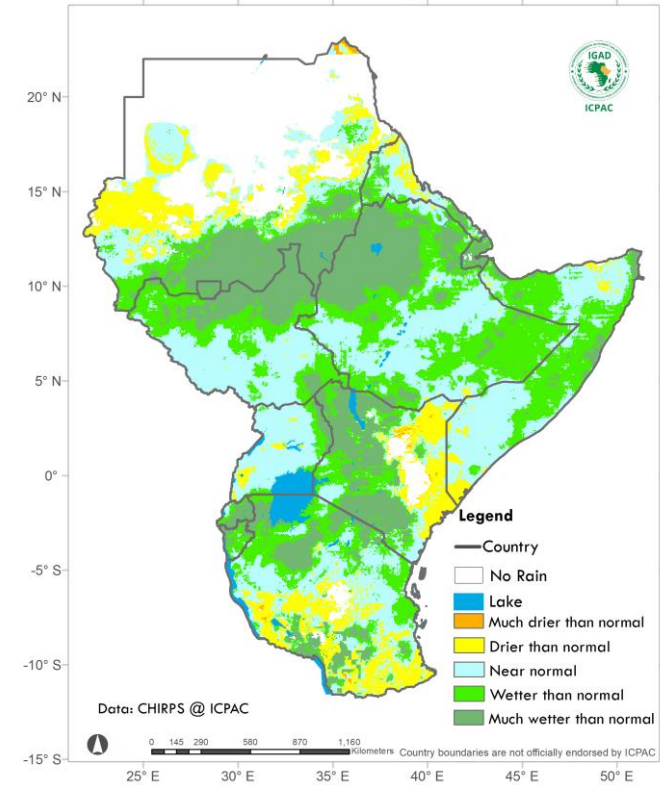
April

% LTM for April 2021



1-20 May

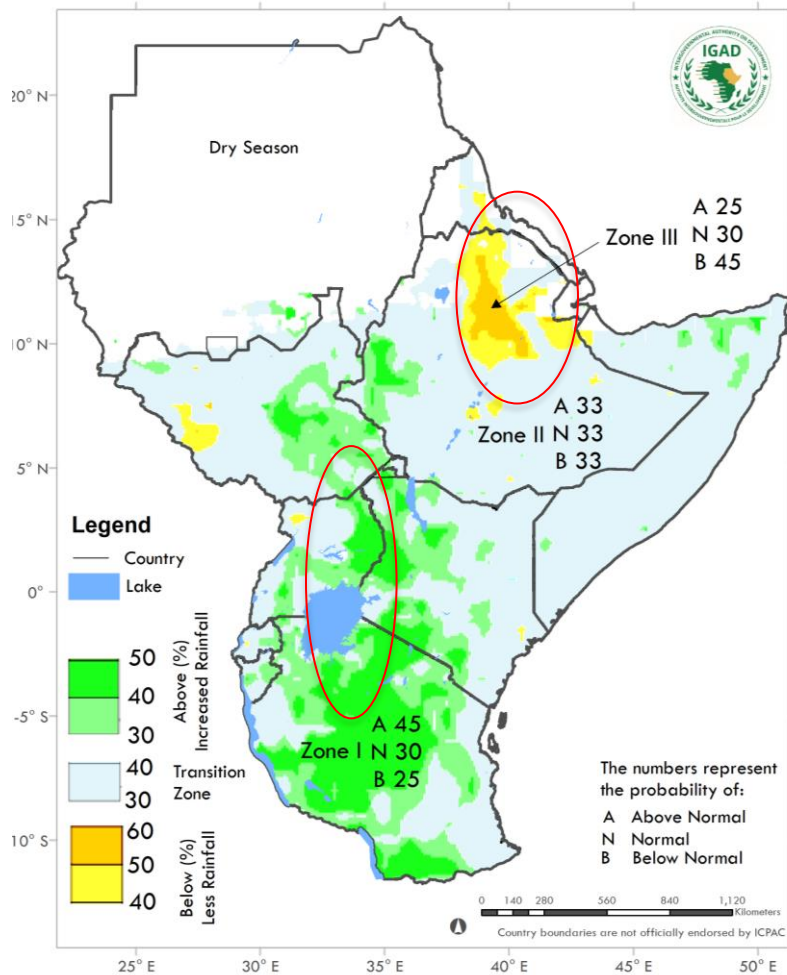
% LTM for 1-20 May 2021



- ❑ Dry conditions observed in March in most parts of the region. Rainfall was well above average in first 20 days of May
- ❑ Cross border areas of Ethiopia-Sudan-South Sudan observed above average condition since the start of the season

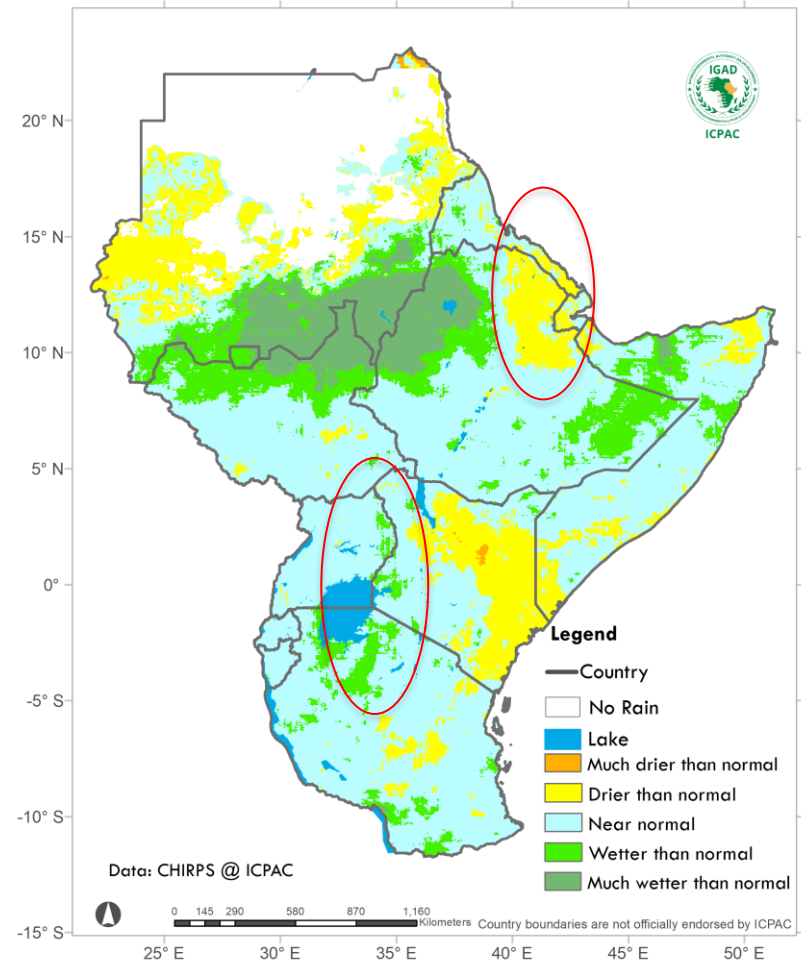
OVERALL SEASONAL PERFORMANCE (MARCH - 20 MAY)

Forecast



Observation

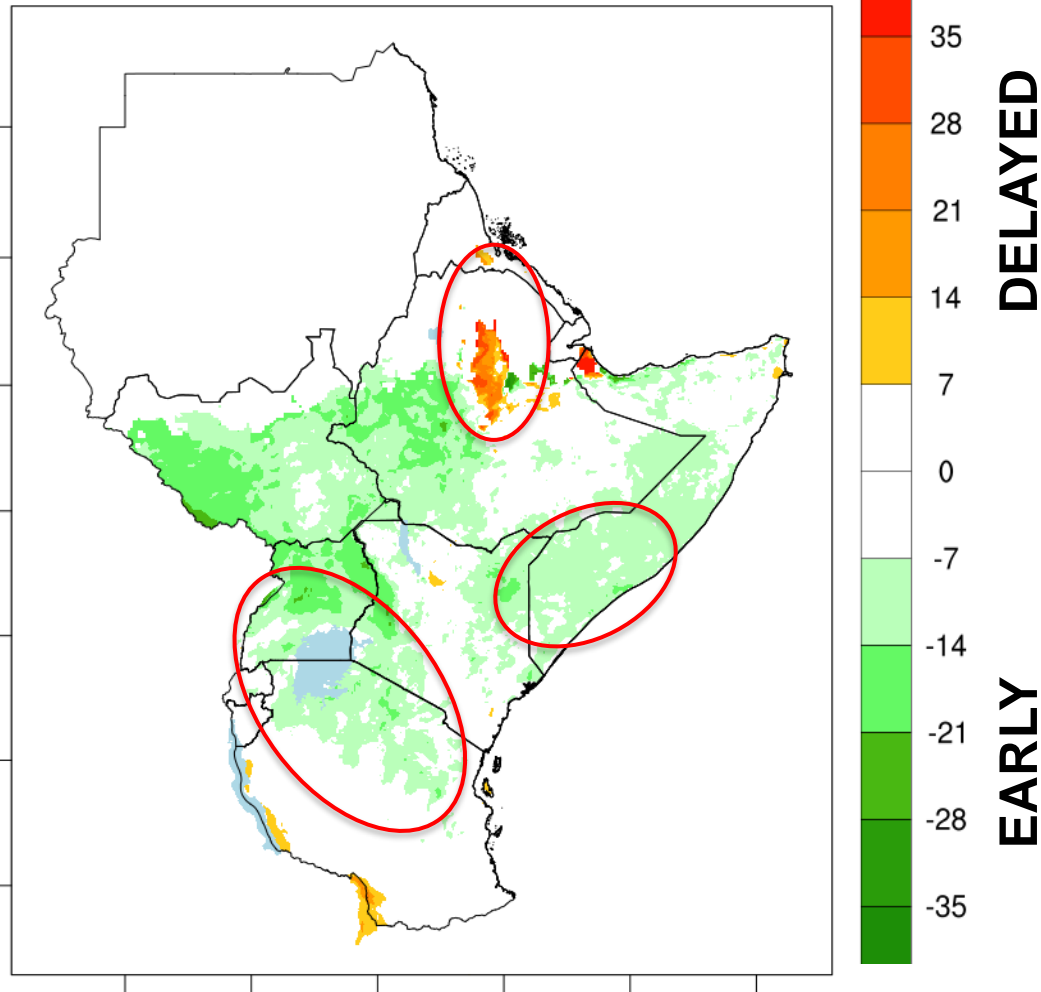
% LTM for March to 20 May 2021



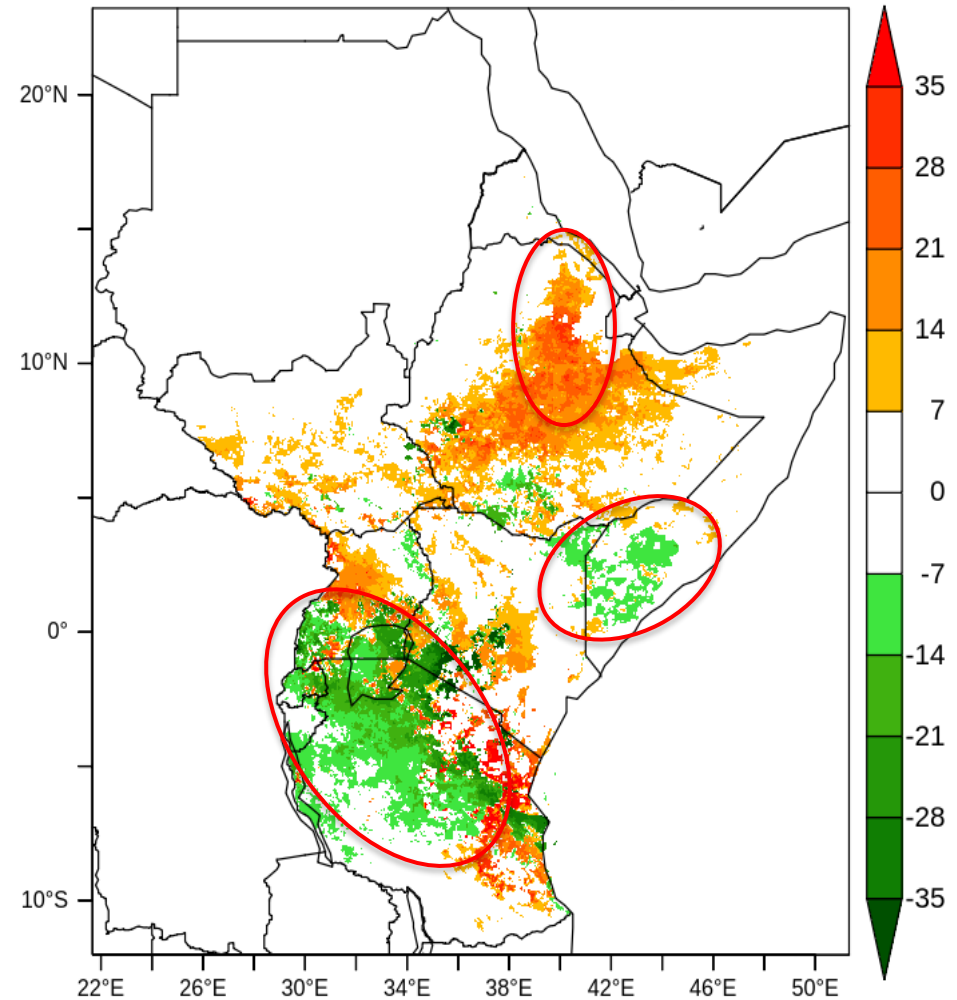
NB: Verifications will be done once observed data become available for the season!!

ONSET OF MAM 2021 RAINY SEASON

Predicted Onset Date Anomalies



Observed Onset Date Anomalies

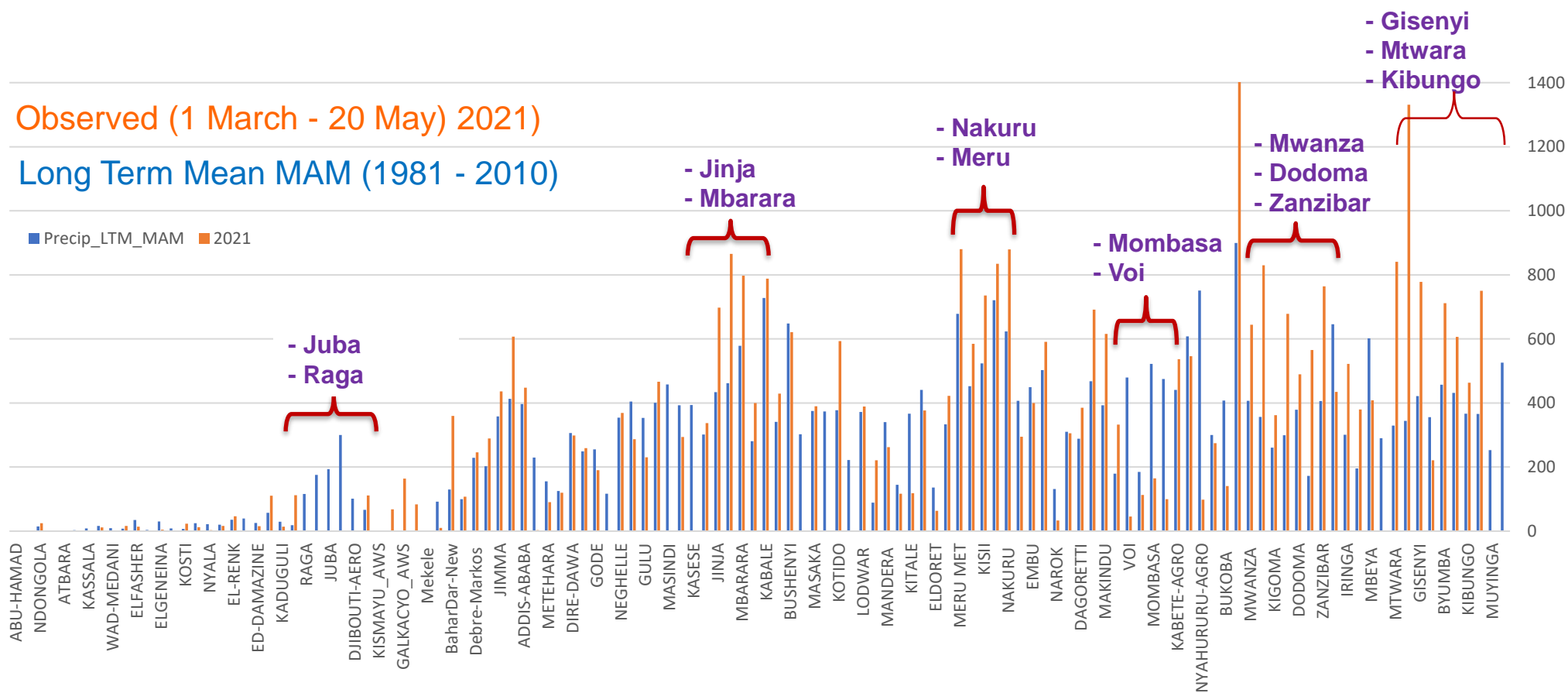


- Delayed onset observed in most parts of GHA though forecast had indicated early onset
- Predicted late onset over northcentral part of Ethiopia is in agreement with the observed

MAM PERFORMANCE FROM SELECTED STATIONS

Observed (1 March - 20 May) 2021

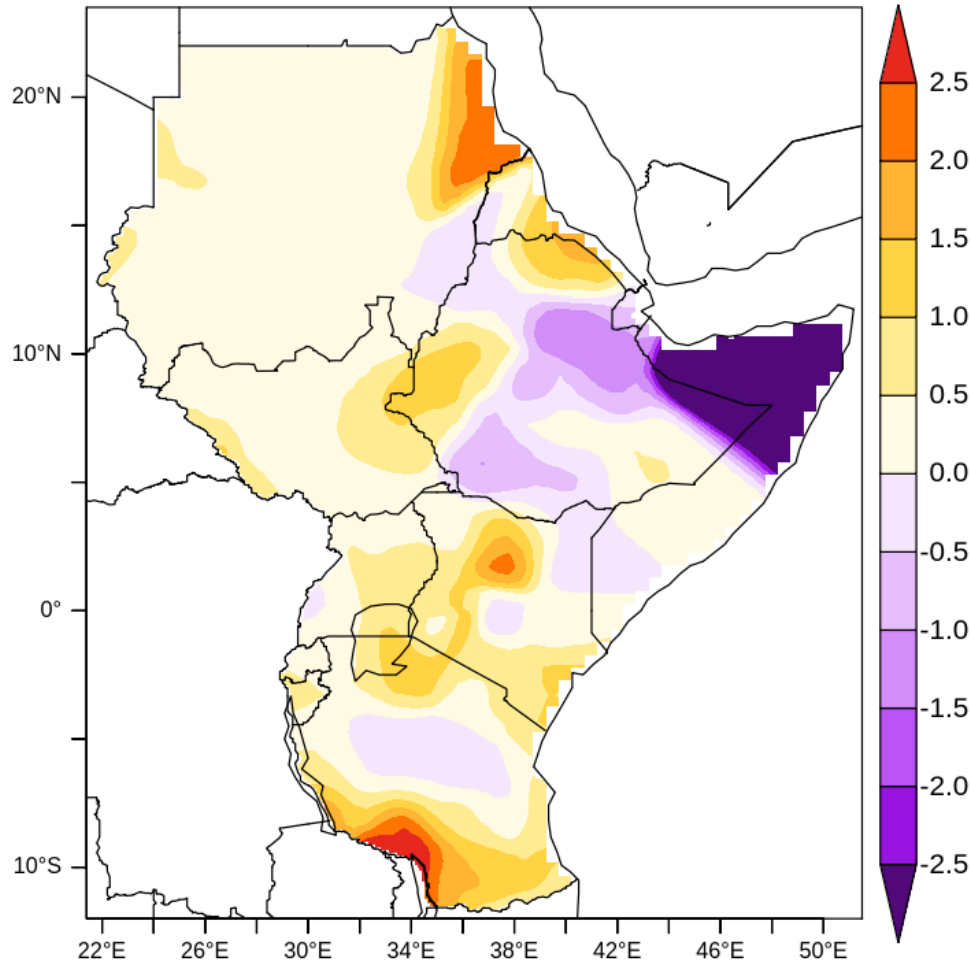
Long Term Mean MAM (1981 - 2010)



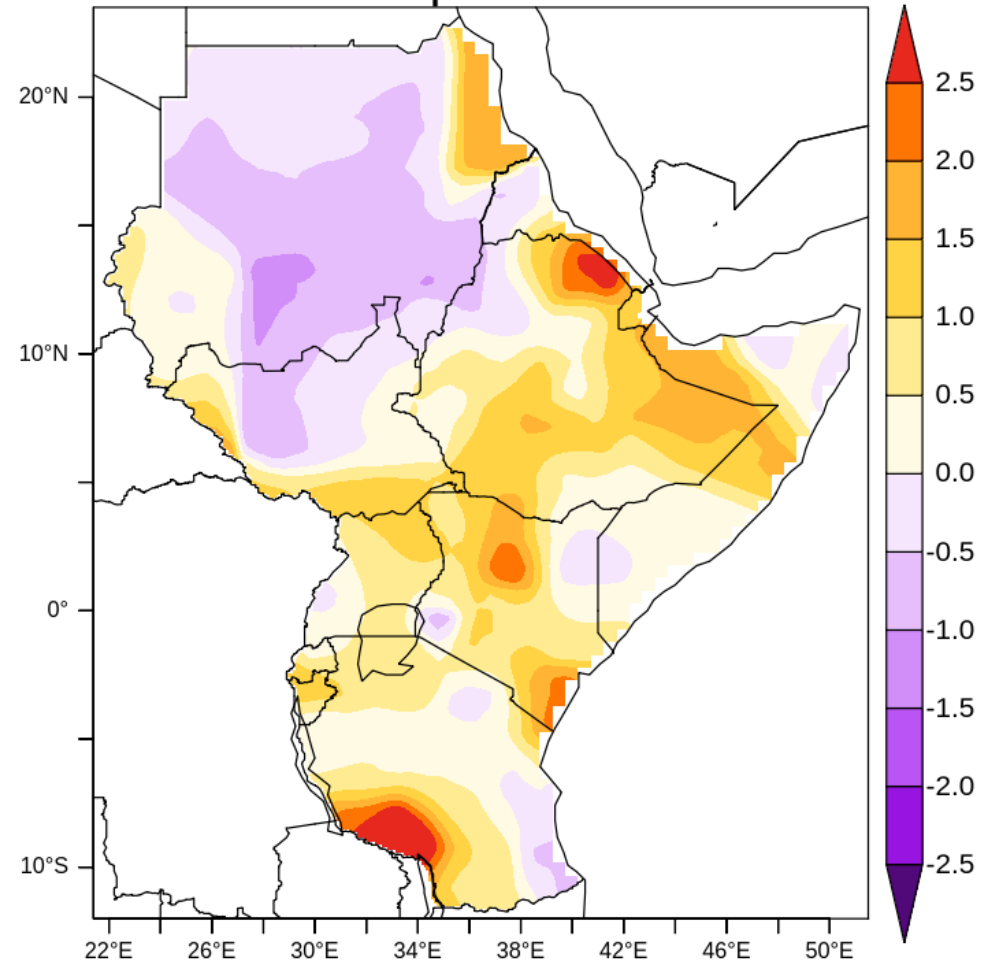
Credits: Ismael Lutta

TEMPERATURE PERFORMANCE – ANOMALIES

Mar 2021



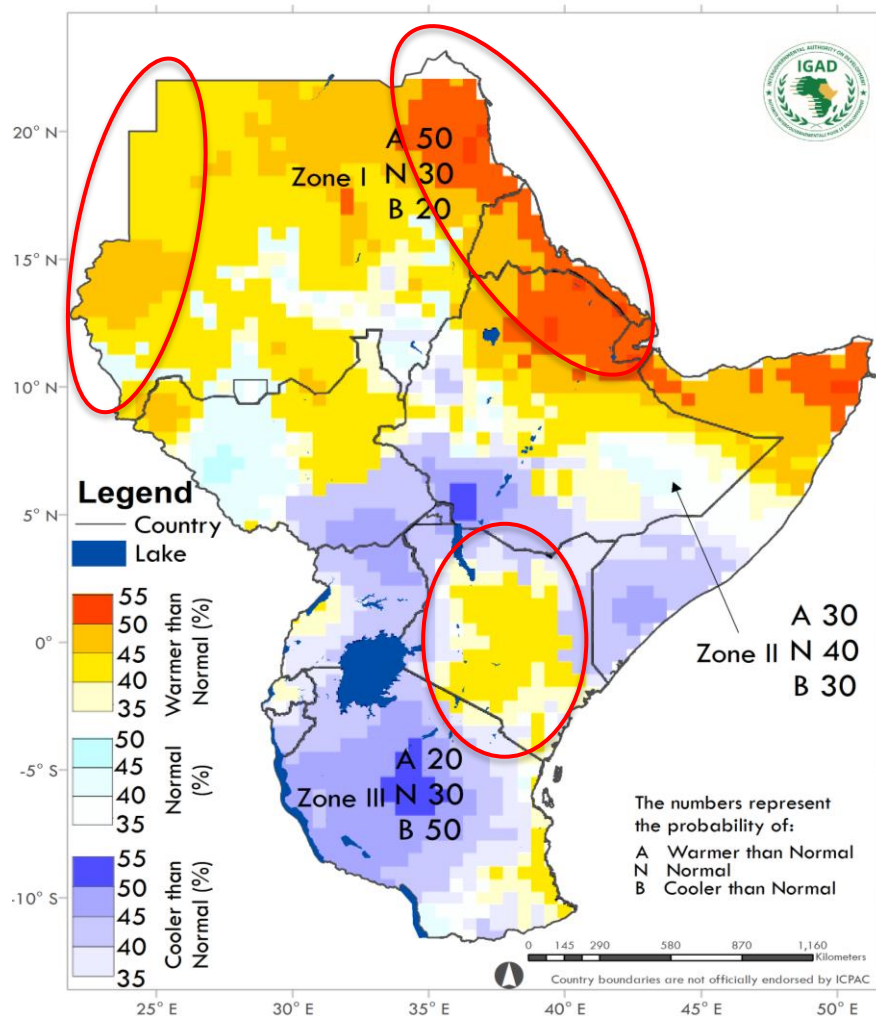
Apr 2021



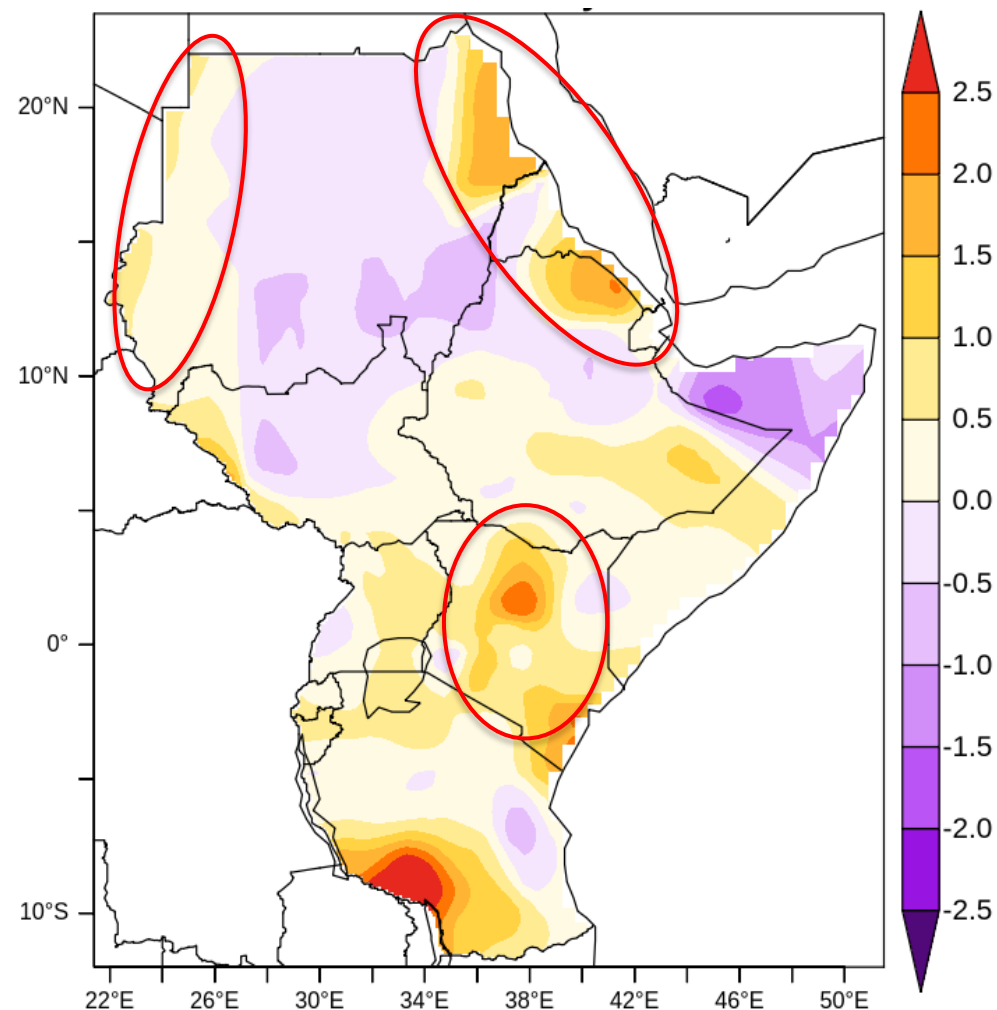
- ❑ In March, most parts of GHA recorded warmer than average temperature except the eastern horn, with localized regions recording over 1.5°C above the long term mean;
- ❑ In April, above average temperature observed over southern & equatorial parts of the region

OVERALL SEASONAL PERFORMANCE (MARCH - 20 MAY)

Forecast

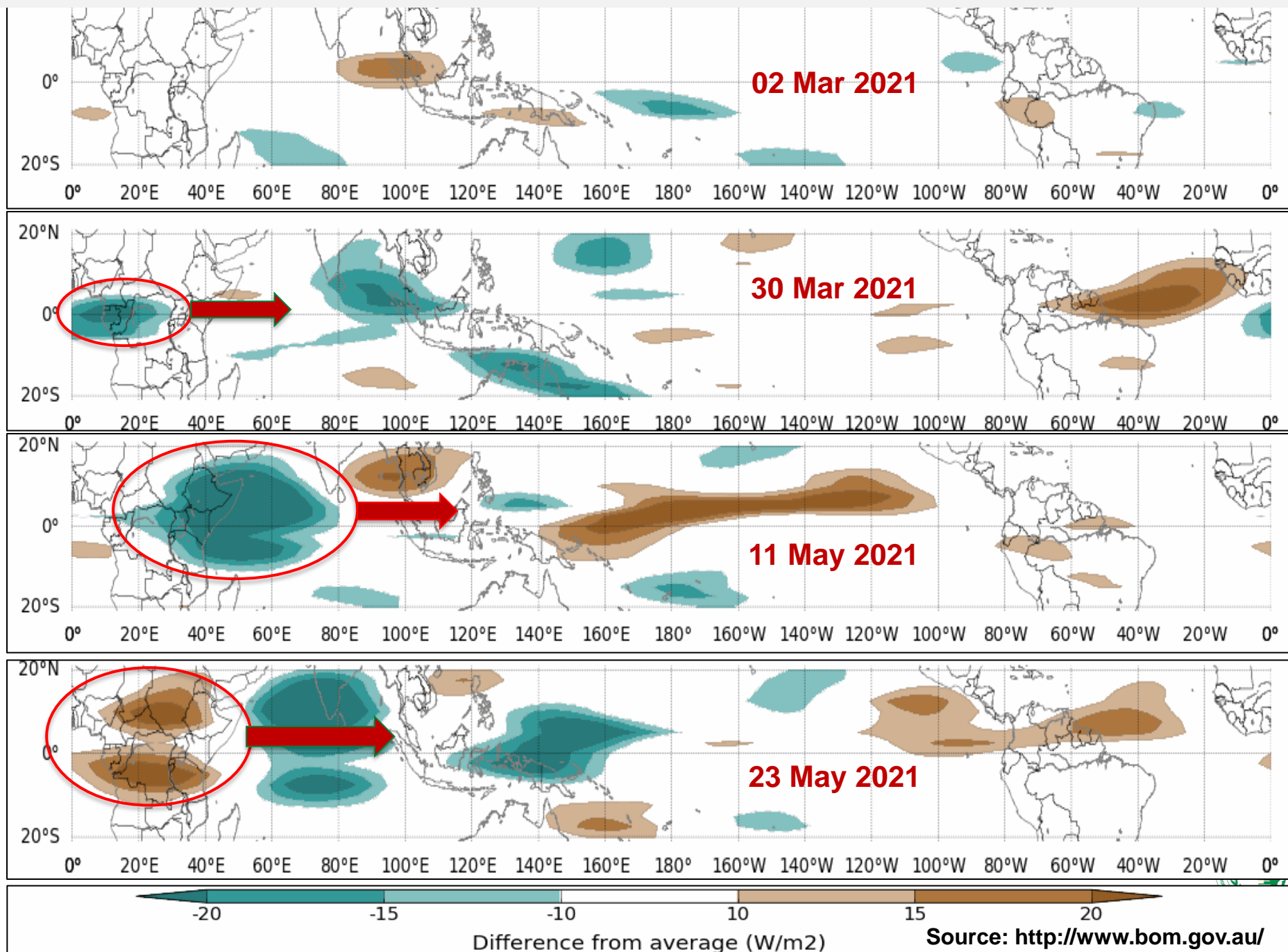


Observation

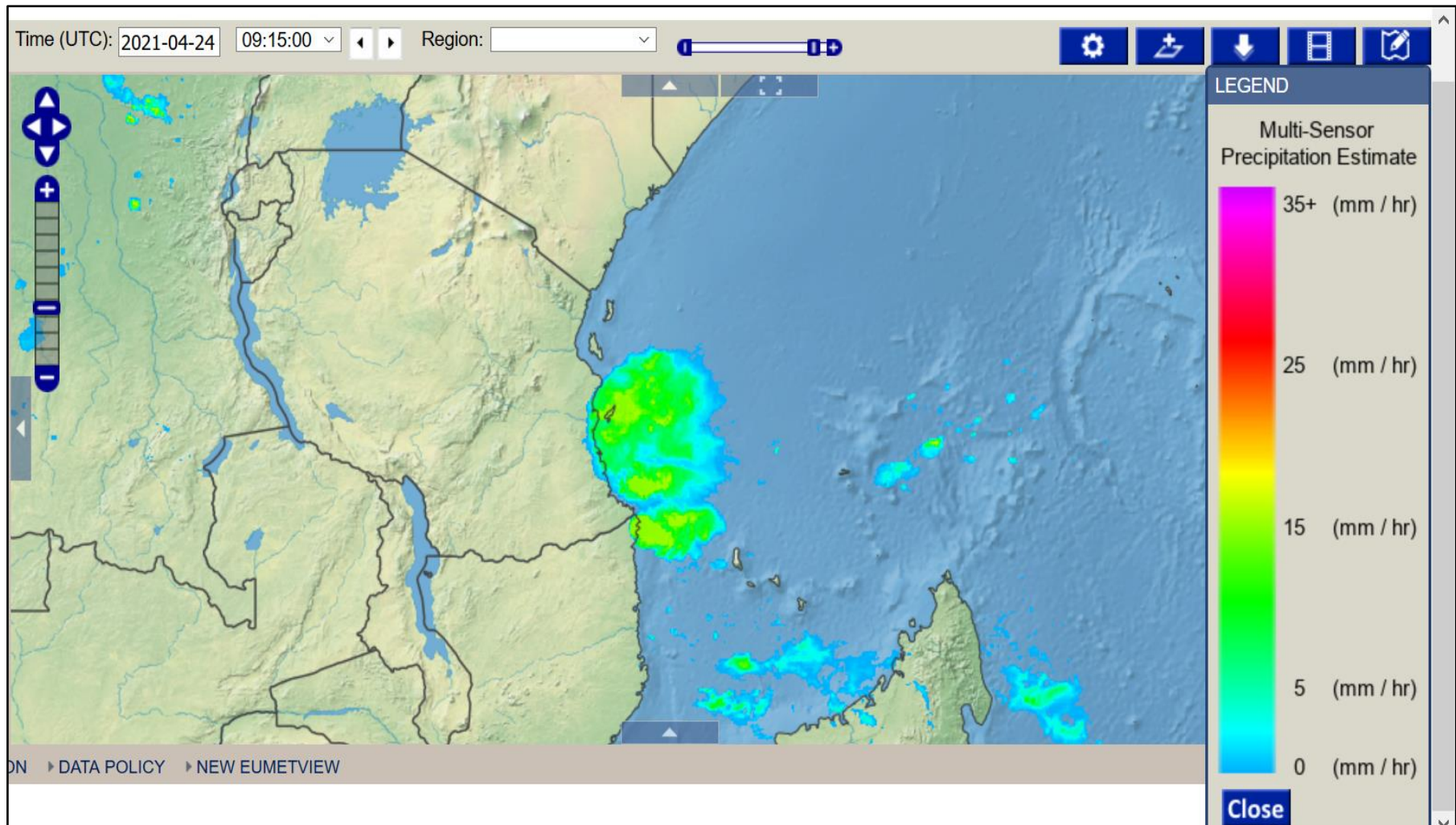


Madden-Julian Oscillation (MJO): Eastward Moving Clouds & Rainfall

RECENT EVOLUTION OF MJO



TROPICAL STORM JOBO



- A rare tropical storm, JOBO made land fall in coastal Tanzania on 24th April 2021
- This was a low impact event with only about 50mm of rainfall in 24hours (GSMaP data)

SUMMARY

- Delayed MAM 2021 rainfall onset observed in most parts of the region
- Dry conditions observed in March and beginning of April, while wetter than usual rainfall recorded in last week of April and first 20 days of May in most parts of GHA
- Warmer than average temperatures observed over most parts of GHA
- The Madden-Julian Oscillation (MJO) appeared to be the main influencing factor for the periods of enhanced and suppressed rainfall within the season in the region.

THANK YOU!

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