

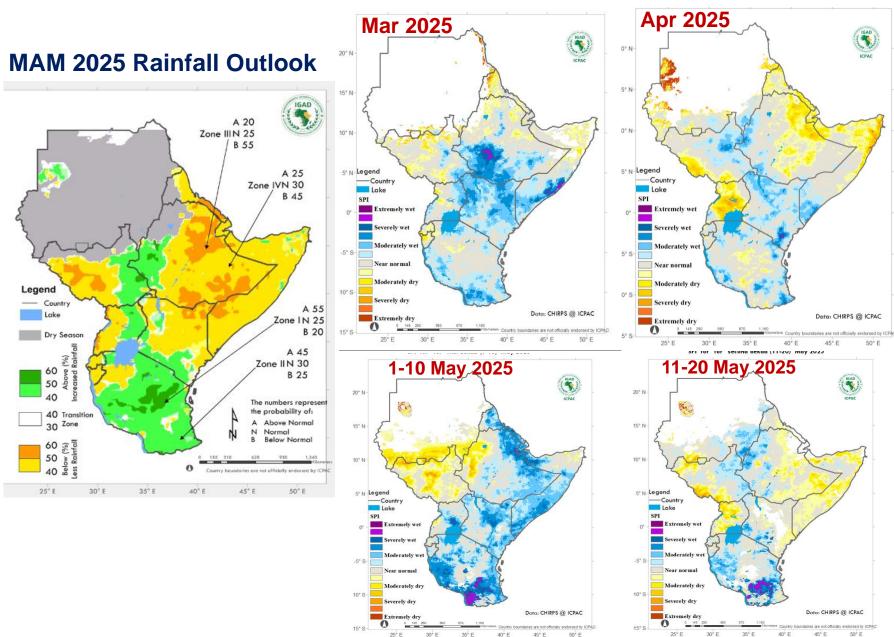
PROGRESS OF THE MAM 2025 SEASON AND OBJECTIVE SEASONAL CLIMATE OUTLOOK FOR JJAS 2025

IGAD Climate Prediction and Applications Centre (ICPAC)

NINETEENTH AFRICAN CONTINENTAL CLIMATE OUTLOOK FORUM (ACCOF-19), 30 May 2025



SEASONAL PERFORMANCE - RAINFALL



 ✓ In March, moderate to severely wet conditions were recorded in Kenya, southern Ethiopia, southern Somalia and Tanzania

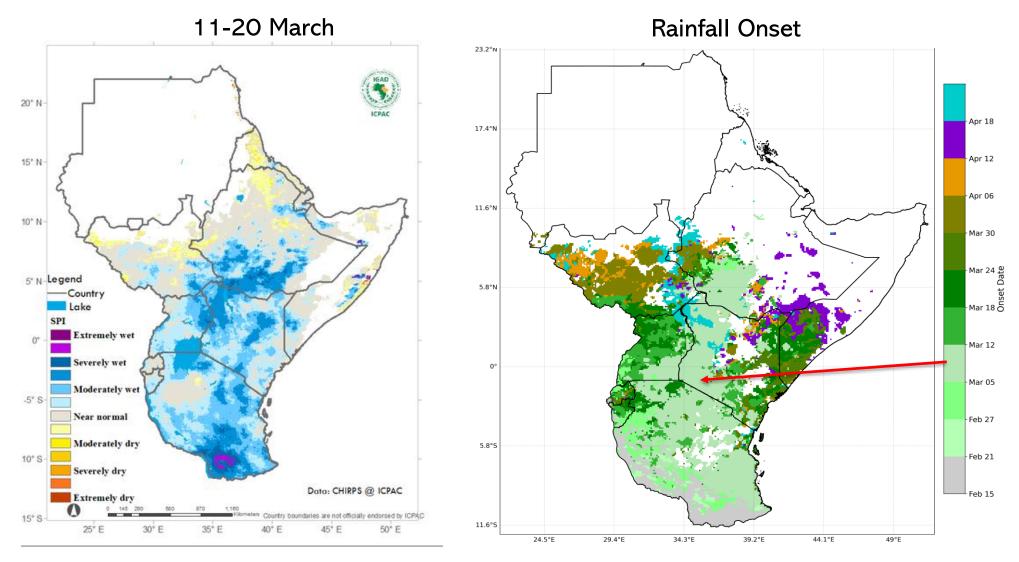
- In April, much of Uganda, western South Sudan northern Somalia, and central to north-eastern Ethiopia were moderately dry
- ✓ 1st dekad of May was moderate to severely wet in most part except western Ethiopia and South Sudan

✓ 2nd dekad recorded dry conditions over eastern and western parts of the region.



Friday, May 30, 2025

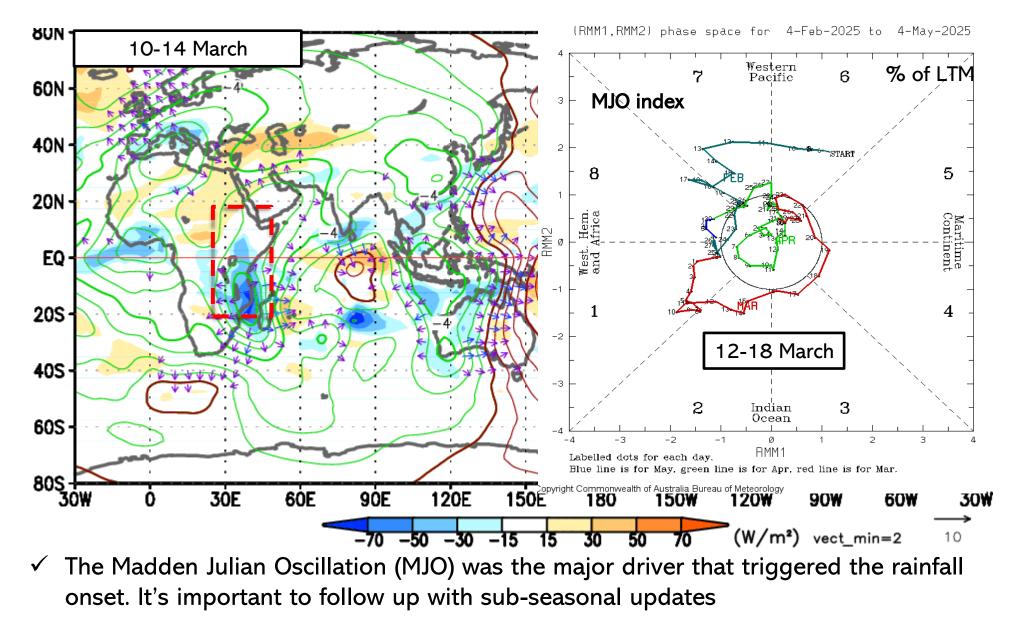
START OF THE SEASON



 ✓ Onset was achieved in several parts of the region within the period 11-20 March, and in some places by March 24

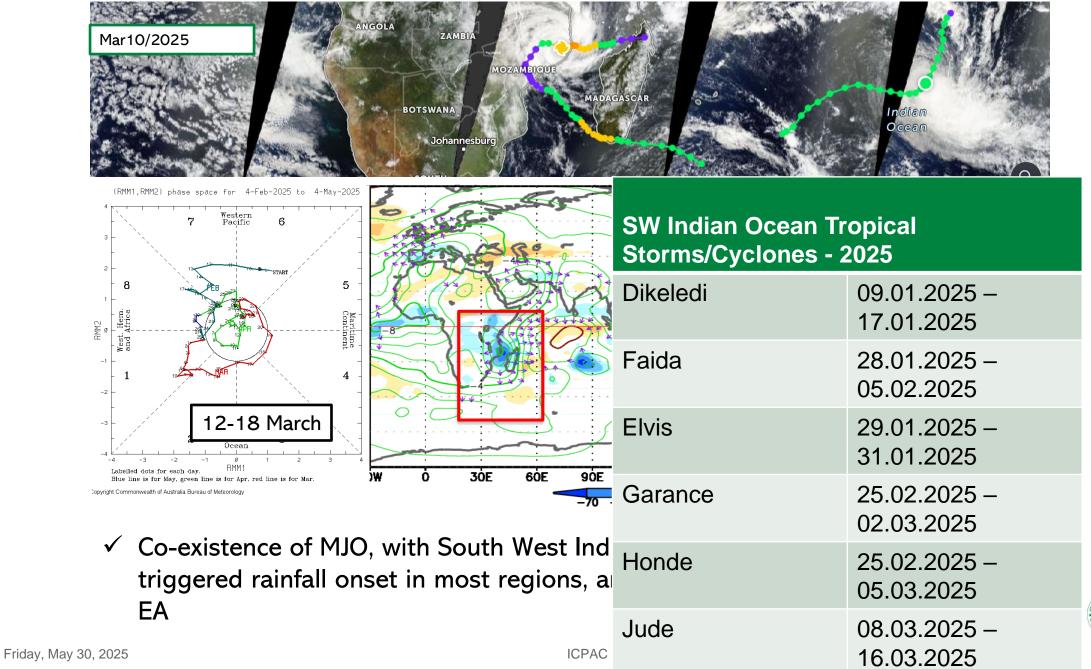


START OF THE SEASON



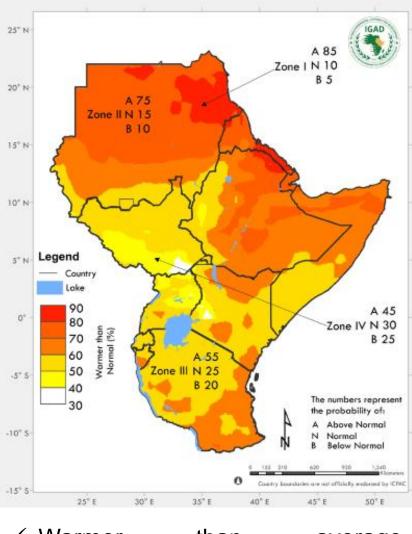
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TROPICAL CYCLONES

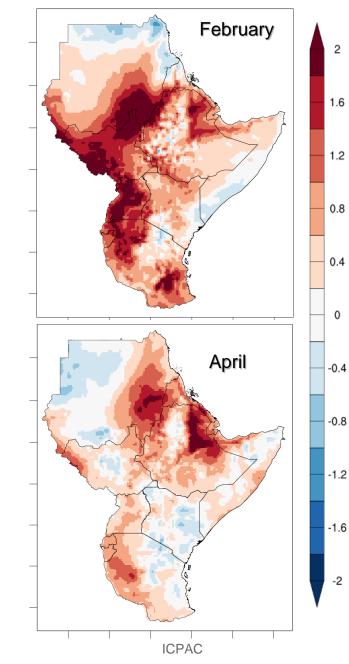


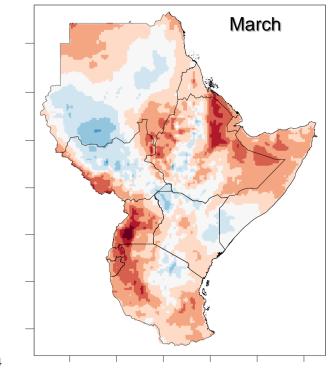


SEASONAL PROGRESSION - TEMPERATURE



✓ Warmer than average temperature predicted over most parts of the region





 The region was largely warmer than average, with higher than normal minimum temperatures

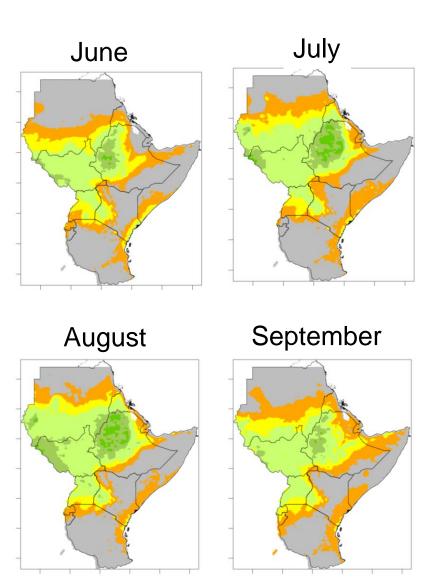


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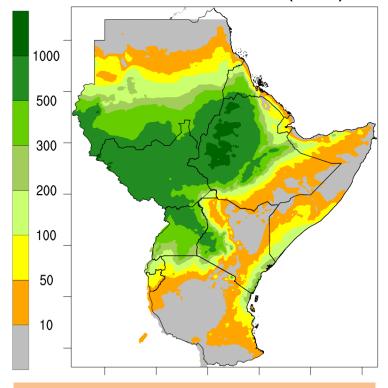
JUNE TO SEPTEMBER (JJAS) 2025 CONSOLIDATED OBJECTIVE SEASONAL CLIMATE OUTLOOK



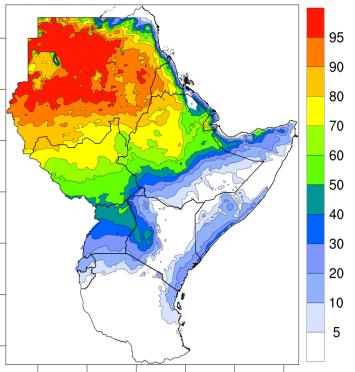
RAINFALL CLIMATOLOGY DISTRIBUTION DURING JJAS FOR 1991-2020



JJAS Total Rainfall (mm)



JJAS is an important rainfall season for the northern parts of the region JJAS Contribution (%)

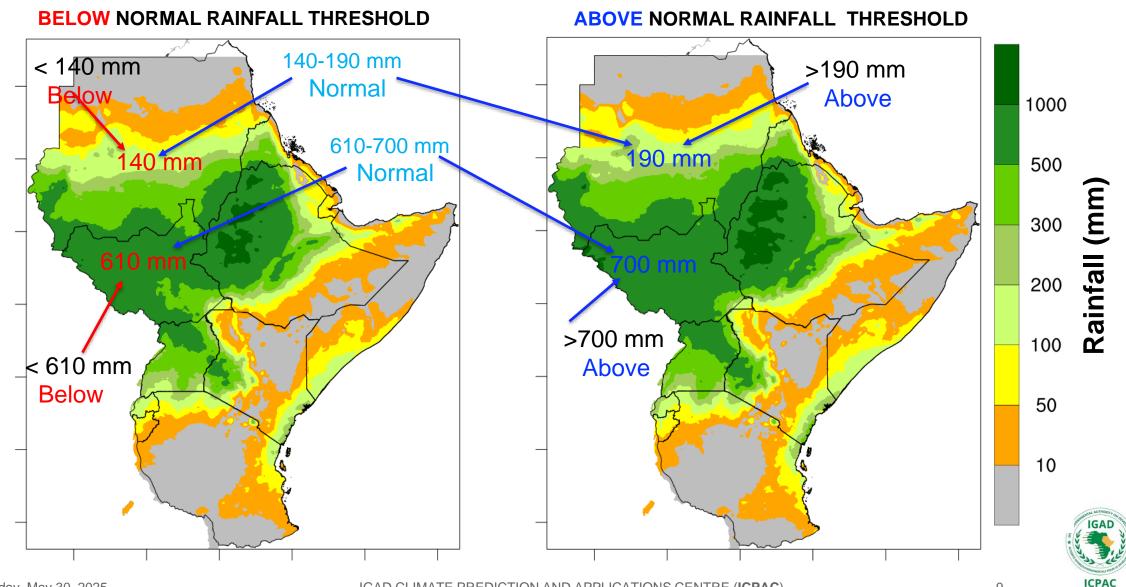


It contributes more than **50%** of the annual rainfall over the northern GHA.

Friday, May 30, 2025

IGAD CLIMATE PREDICTION AND APPLICATIONS CENTRE (ICPAC)

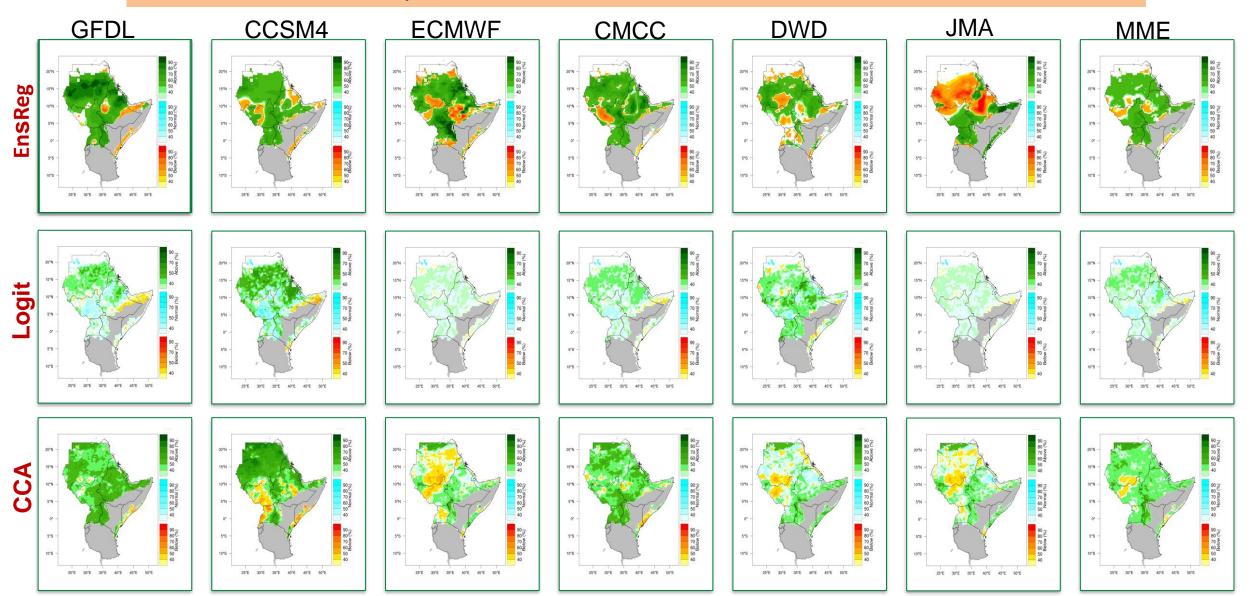
LONG-TERM (1991–2020) JJAS RAINFALL THRESHOLDS FOR BELOW AND ABOVE NORMAL CATEGORIES



9

INPUTS FOR OBJECTIVE JJAS 2025 SEASONAL RAINFALL FORECASTS

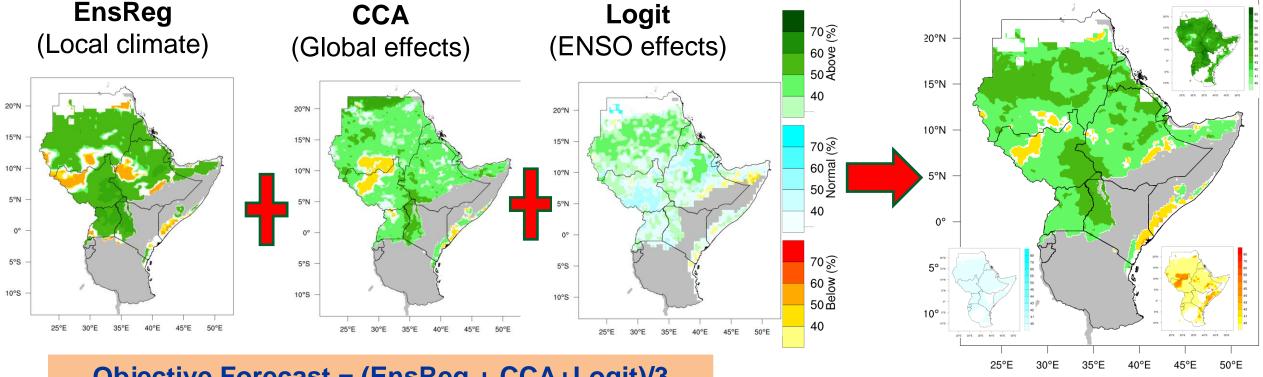
May 2025 initialized global forecasts from 6 GPCs were processed using three calibration methods to produce JJAS 2025 Seasonal climate outlook over GHA



INPUTS FOR OBJECTIVE JJAS 2025 FORECASTS

The consolidated forecast is obtained by averaging the forecasts from three calibration methods: EnsReg, CCA, and Logit

Final: Multi-model and **Method Average**



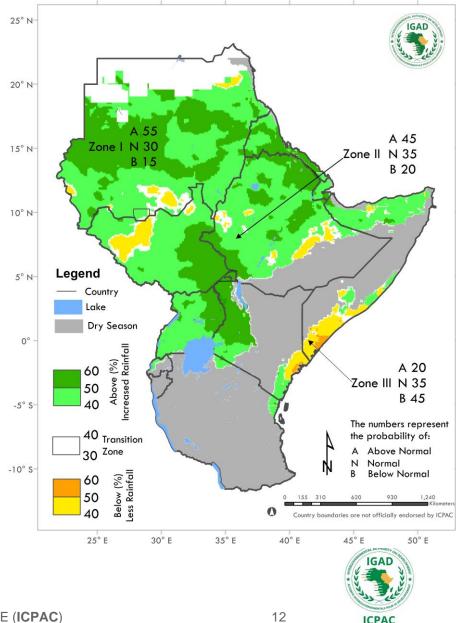
Objective Forecast = (EnsReg + CCA+Logit)/3



JJAS 2025 RAINFALL OUTLOOK

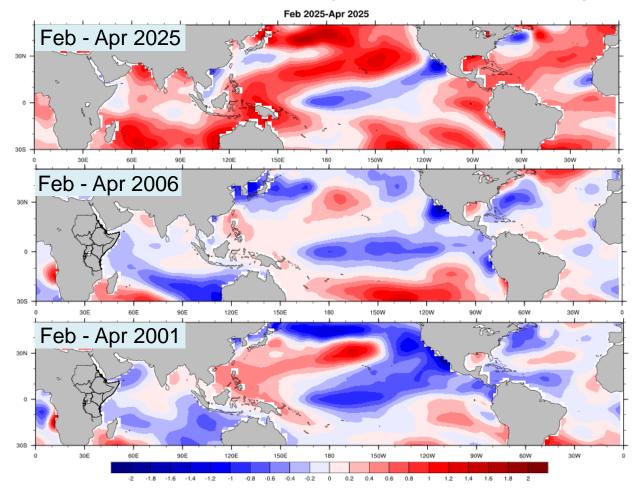
The ICPAC seasonal rainfall forecasts, based on 6 GPCs MME initialized May 2025, indicate an increased likelihood of above-normal rainfall over much of the northern GHA, including western Kenya, Uganda, South Sudan, Sudan, Eritrea, Djibouti, Ethiopia, and the north coastal area of Somalia.

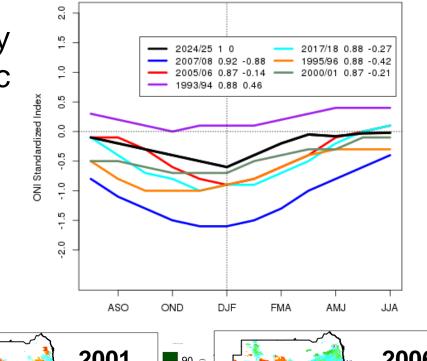
- There are high chances of drier-than-normal conditions over parts of coastal Somalia and Kenya, northern South Sudan, southern Sudan and Ethiopia.
- The southern regions and parts of the equatorial sector are climatologically dry during the JJAS season.

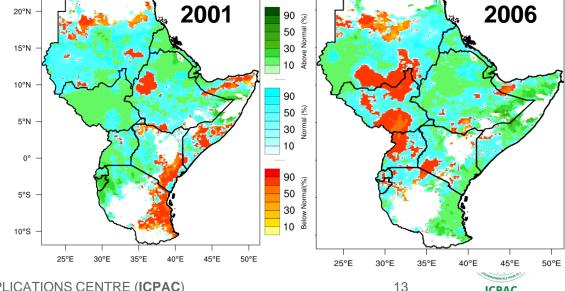


ANALOGUE YEARS BASED ON SSTA PATTERN AND NINO-3.4

 \bigcirc Approach to seasonal climate forecasting, by comparing current atmospheric and oceanic conditions to similar patterns from the past.



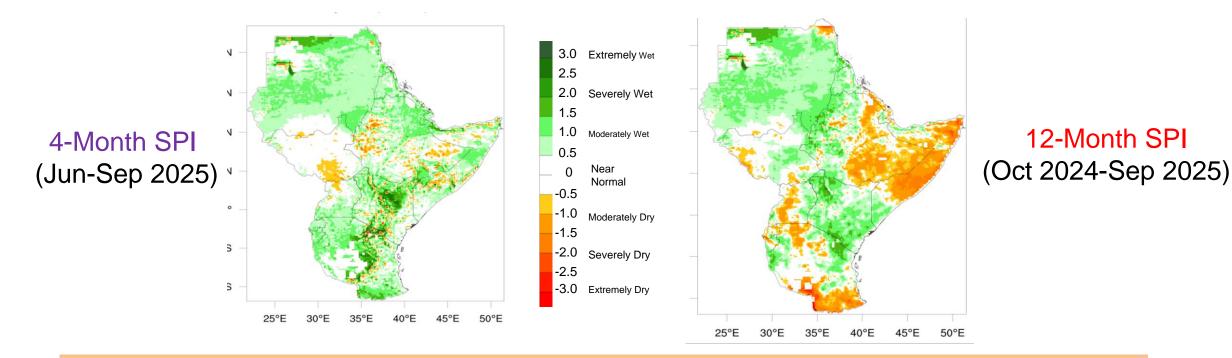




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IGAD CLIMATE PREDICTION AND APPLICATIONS CENTRE (ICPAC)

STANDARDIZED PRECIPITATION INDEX (SPI) FORECAST ENDING ON 30 SEP 2025

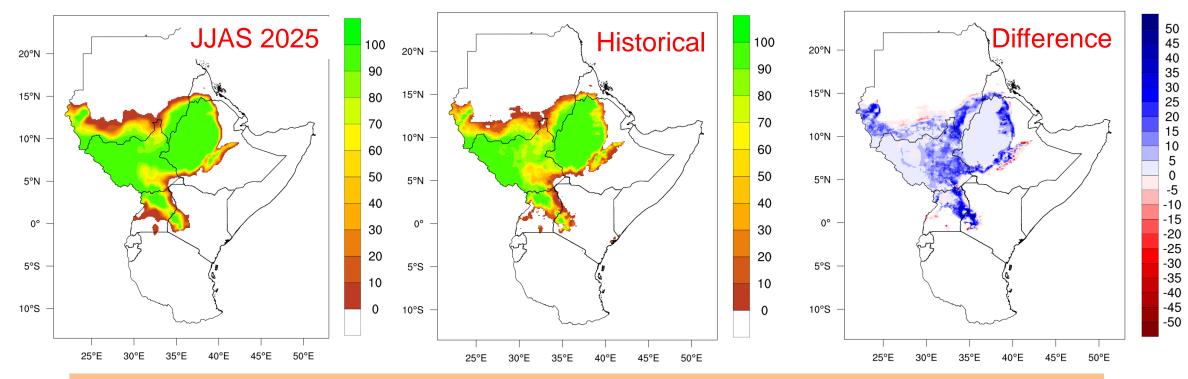


4-month SPI: reflects short to medium-term moisture status
12-month SPI: indicate cumulative trend of droughts/wetness and can be tied to stream flows and reservoir levels;
Long-term wet conditions are expected, with sustained streamflow and water availability in reservoirs across most parts of Kenya, southern Somalia, and much of Sudan, western Ethiopia.



CHANCES OF JJAS 2025 RAINFALL EXCEEDING 500 MM

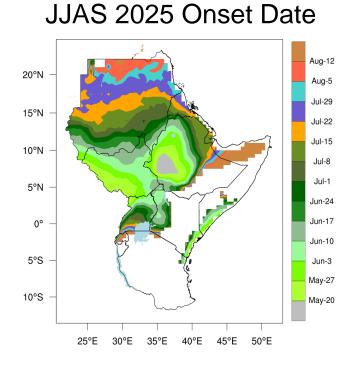
 High chances of receiving 500 mm over central to western Ethiopia, South Sudan, southern areas of Sudan, and northern Uganda

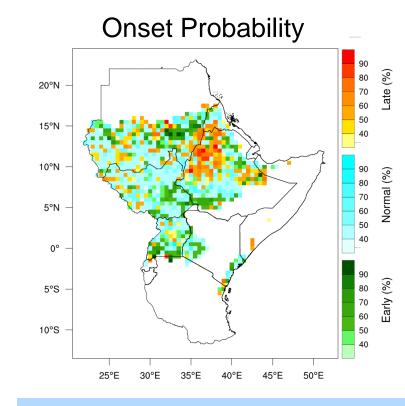


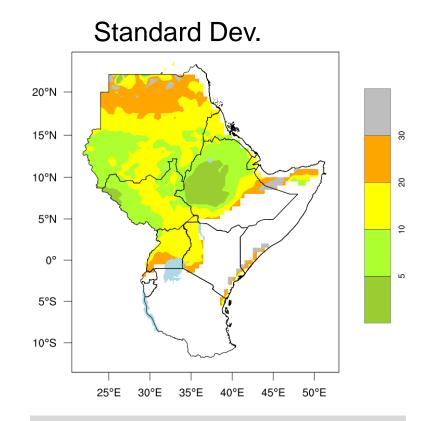
Higher chance (up to 30%) of recording 500 mm expected compared to historical over southern Sudan as well as in parts of Ethiopia, South Sudan, Uganda and western Kenya.



ONSET OF JUNE TO SEPTEMBER (JJAS) 2025 SEASON







The onset of rainfall, as predicted by the MME forecast from 6 GCMs (212 members) shows a progression from south to north Normal to early onset forecasted over most parts of the region; delayed onset indicated in localized areas and north western ETH.

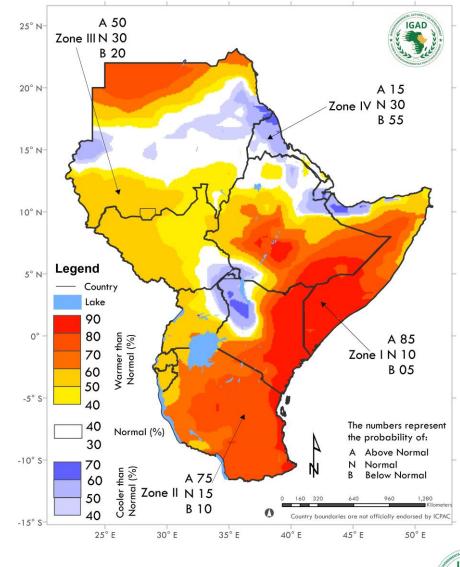
Significant variation in predicting onset dates among various ensemble members over Sudan, Eritrea, Djibouti and eastern Ethiopia.



JJAS 2025 TEMPERATURE OUTLOOK

Grandware Warmer-than-average temperatures are expected over most parts of the region.

- Significantly higher likelihood of experiencing **above-normal temperatures** are indicated over southern Ethiopia and Somalia, Eastern Kenya, and northern Sudan.
- There is a likelihood of **normal to belownormal temperatures** over northwestern Kenya, northeastern Uganda, southeastern South Sudan, Djibouti, Eritrea, central Sudan, and northeastern Ethiopia.





17

SUMMARY

The Major climate drivers such as ENSO & IOD do not have significant influence on the MAM season. Tropical cyclones & MJO, though prevailing in the sub-seasonal timescales significantly influence the MAM season

The JJAS 2025 seasonal forecast, based on May-initialized GPCs MME, indicates an increased likelihood of above-normal rainfall across much of northern GHA

Higher chance of recording **500 mm** expected compared to historical over southern Sudan as well as in parts of Ethiopia, South Sudan, Uganda and western Kenya.

A normal to early onset is forecasted for most parts of the region, while a delayed onset is expected in central to northwestern Ethiopia and isolated areas of Sudan, South Sudan, and Uganda.

Temperature is expected to be **warmer than average** over much of the region with higher probabilities over southern Ethiopia and Somalia, Eastern Kenya, and northern Sudan.



THANK YOU!

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