



# **PERFORMANCE OF MAM AND JJAS 2023 AND OUTLOOK FOR ASO AND SON 2023 RAINFALL SEASON OVER THE GHA REGION**

**THE THIRTEEN AFRICAN CONTINENTAL CLIMATE  
OUTLOOK FORUM (ACCOF-13), 21 JULY 2023**

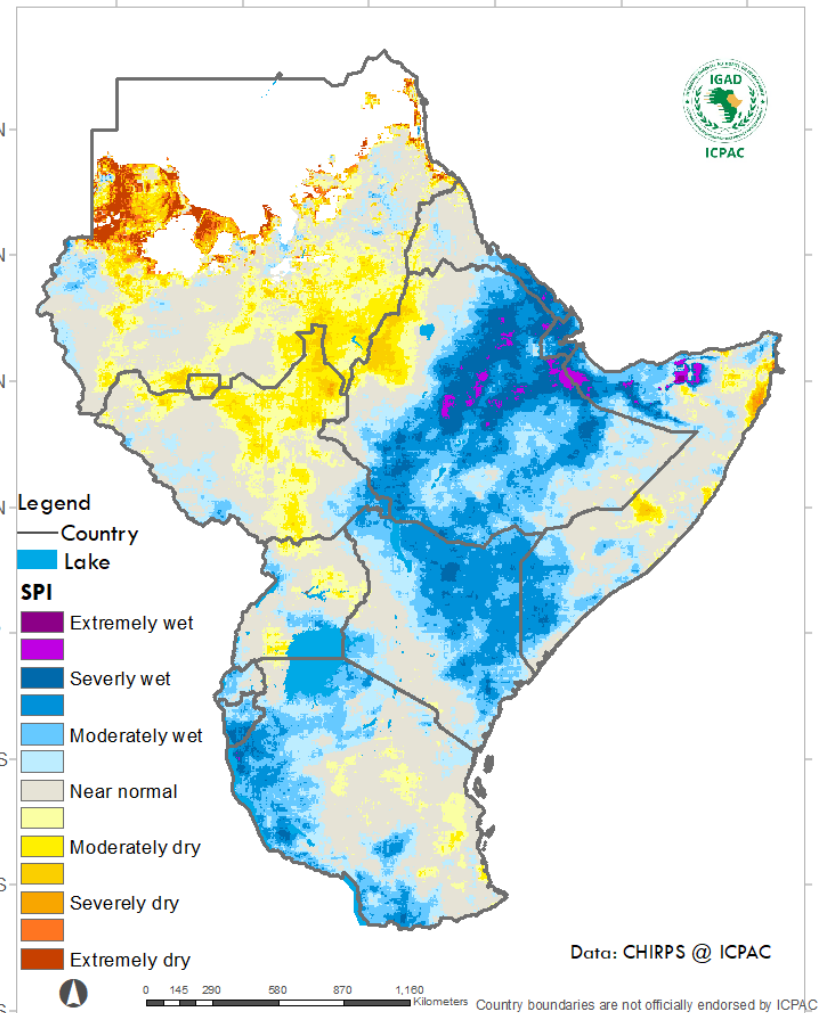
**IGAD Climate Prediction and Applications Centre (ICPAC)**

# OUTLOOK

- Performance of March-May (MAM) 2023 Season
- Progress of Jun-Sep (JJAS) 2023 Season
- State of global climate drivers (ENSO & IOD)
- Seasonal outlook for coming seasons

# MARCH-MAY 2023 PERFORMANCE

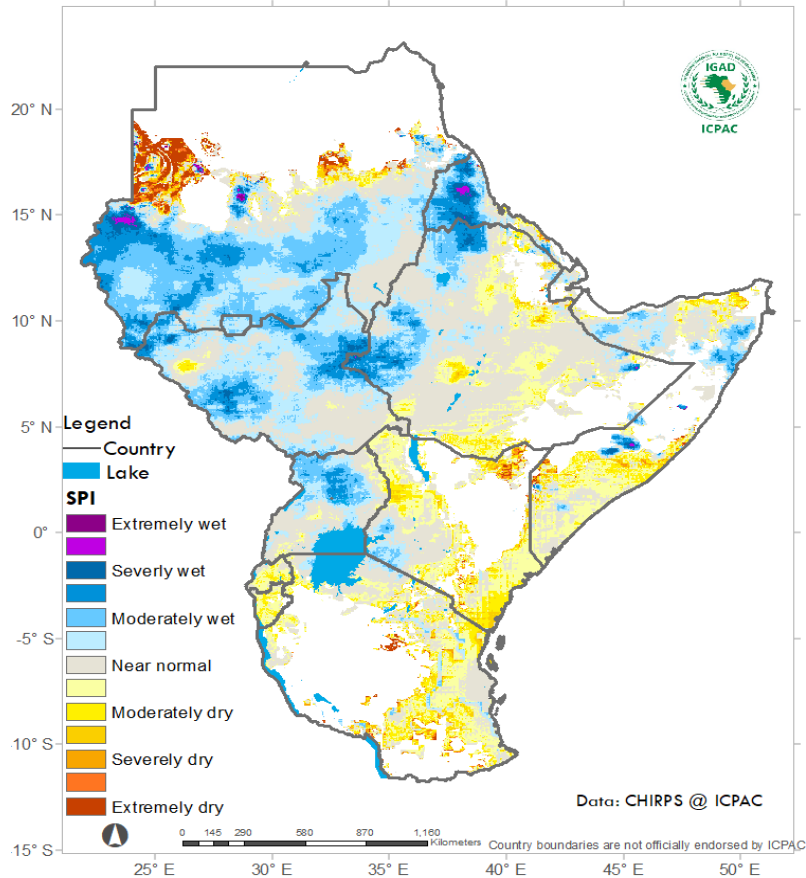
SPI for MAM 2023



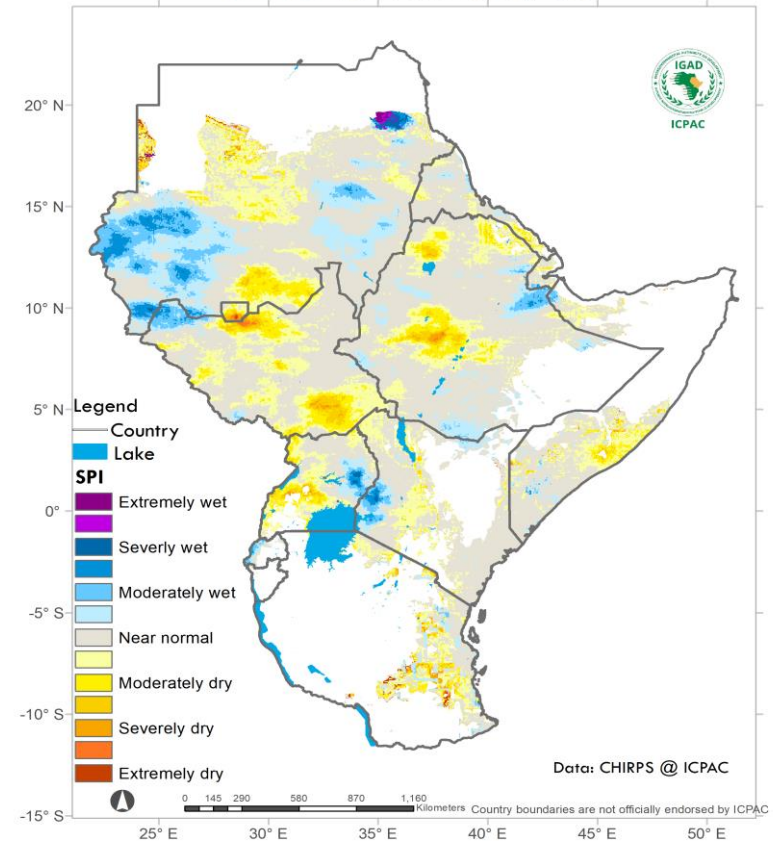
- **Wetter than usual conditions** were observed in parts of Eritrea, Djibouti, much of Ethiopia, part of northern Somalia, northern and eastern Kenya, western Rwanda, Burundi, and western and southwestern Tanzania.
- **Drier than usual conditions** were observed in parts of Sudan, South Sudan, and isolated areas in Uganda and Tanzania. The rest of the region recorded **normal conditions**

# JUNE – SEPTEMBER (JJAS) 2023 PROGRESS

SPI for June 2023



SPI for for first dekad(1-10) July 2023

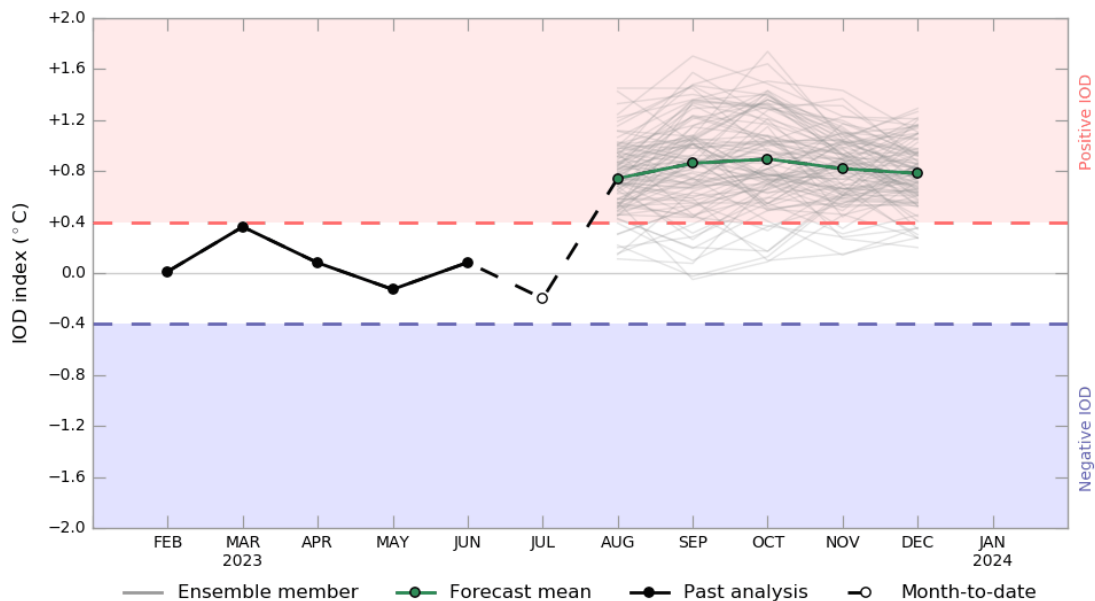


- **Wetter than usual conditions** were observed in parts of Sudan, South Sudan, Ethiopia, and Uganda in June.

- 1<sup>st</sup> Dekad of July: **Drier than normal conditions** observed over most parts of the region with wet conditions observed over parts of western Sudan.

# IOD EVOLUTION & OUTLOOK

Monthly sea surface temperature anomalies for IOD region

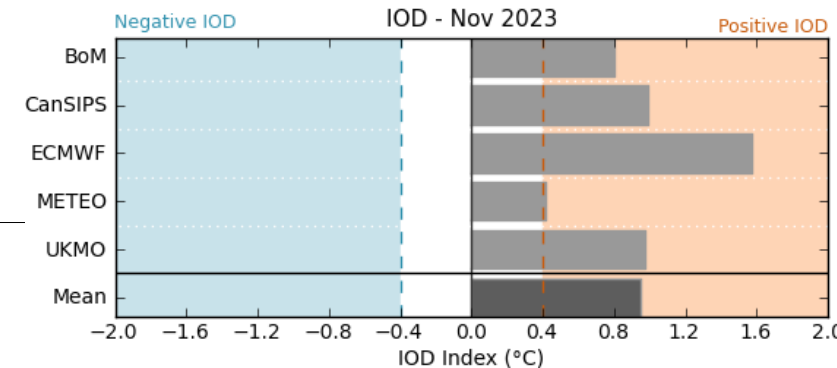
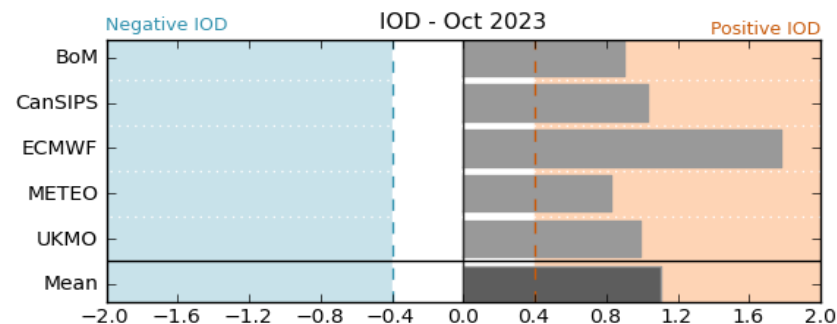
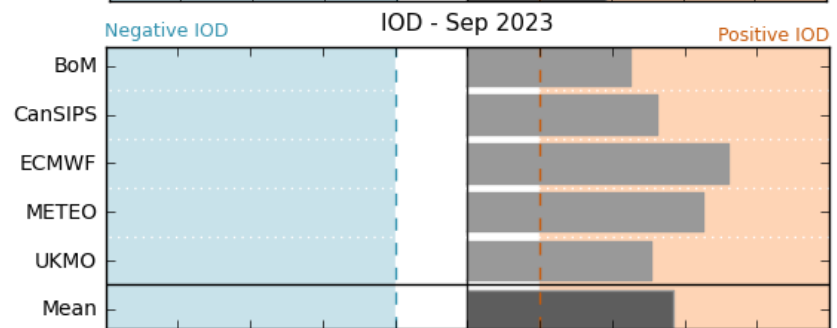
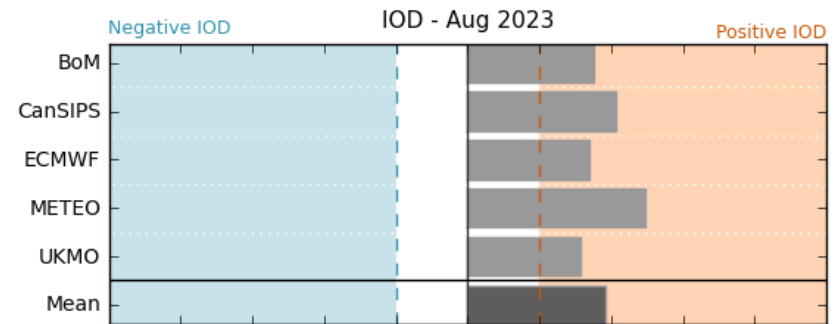


www.bom.gov.au/climate  
Commonwealth of Australia 2023, Australian Bureau of Meteorology

Model run: 15 Jul 2023

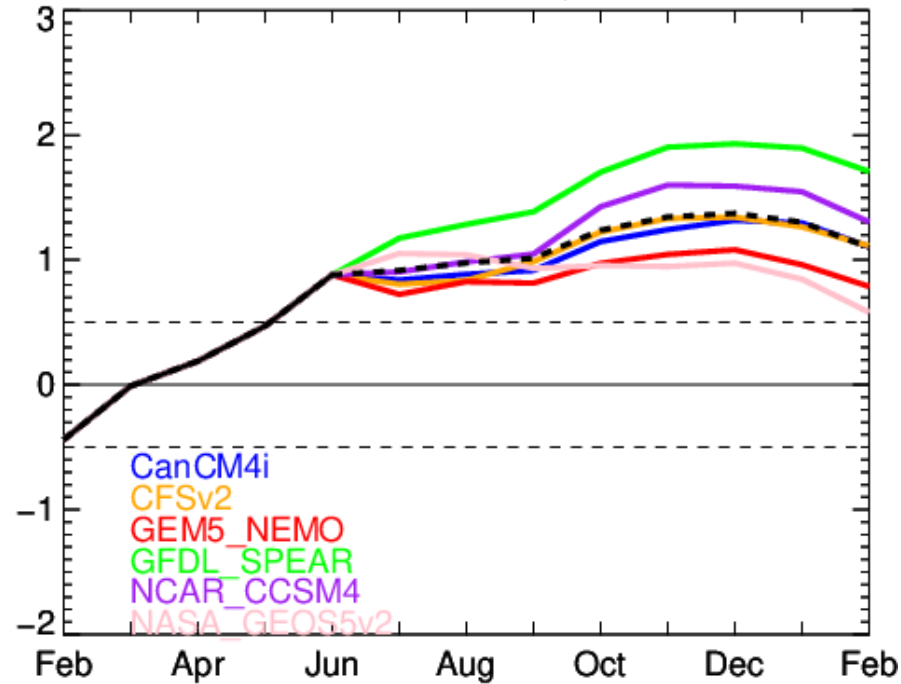
Model: ACCESS-S2  
Base period 1981-2018

- The Indian Ocean Dipole (IOD) is currently neutral.
- Likely to transition to positive phase in August then continue until the end of the year
- Continue to monitor through the coming months

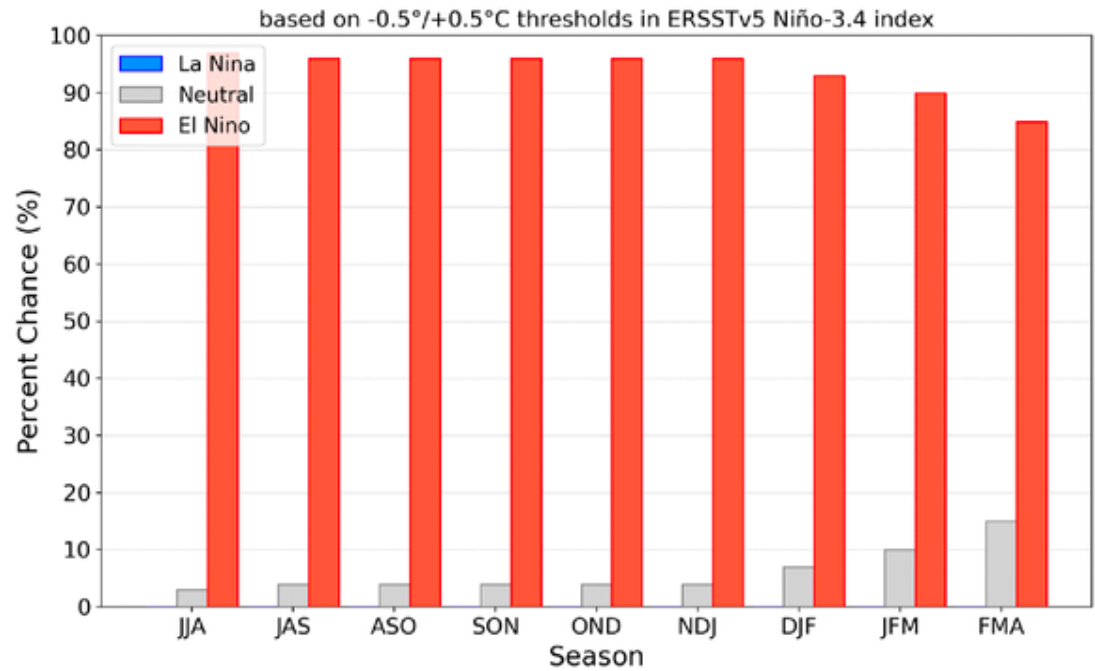


# ENSO EVOLUTION & OUTLOOK

NMME scaled Nino3.4, IC=202307

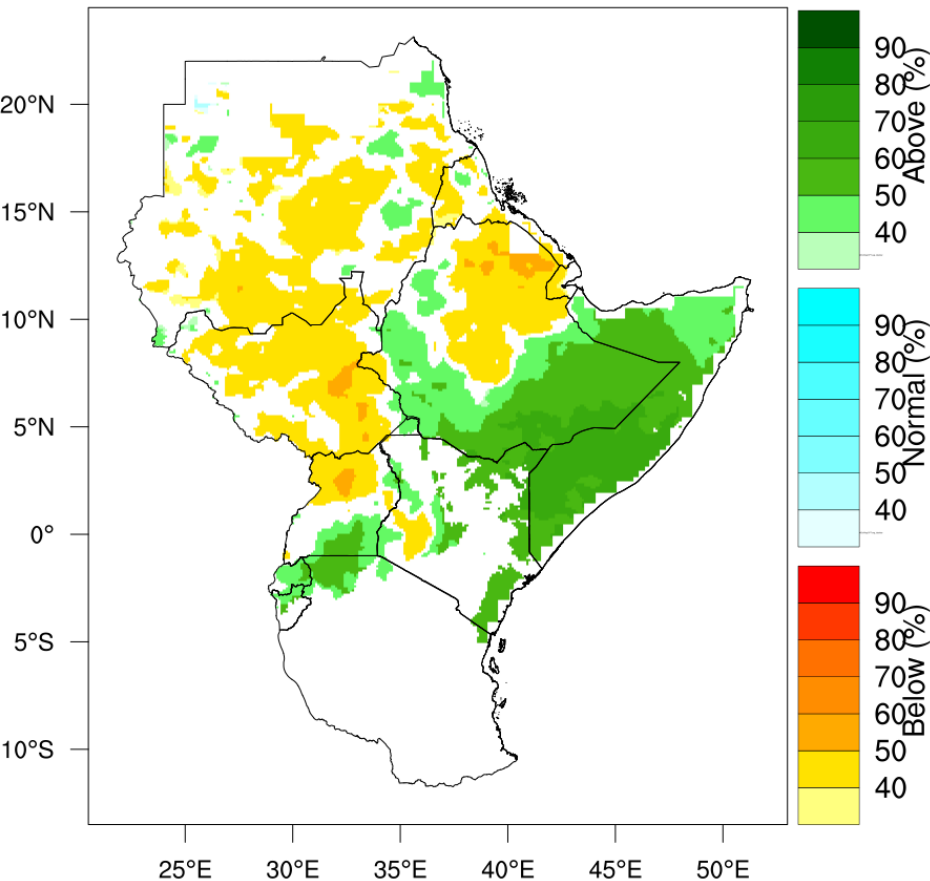


Official NOAA CPC ENSO Probabilities (issued July 2023)



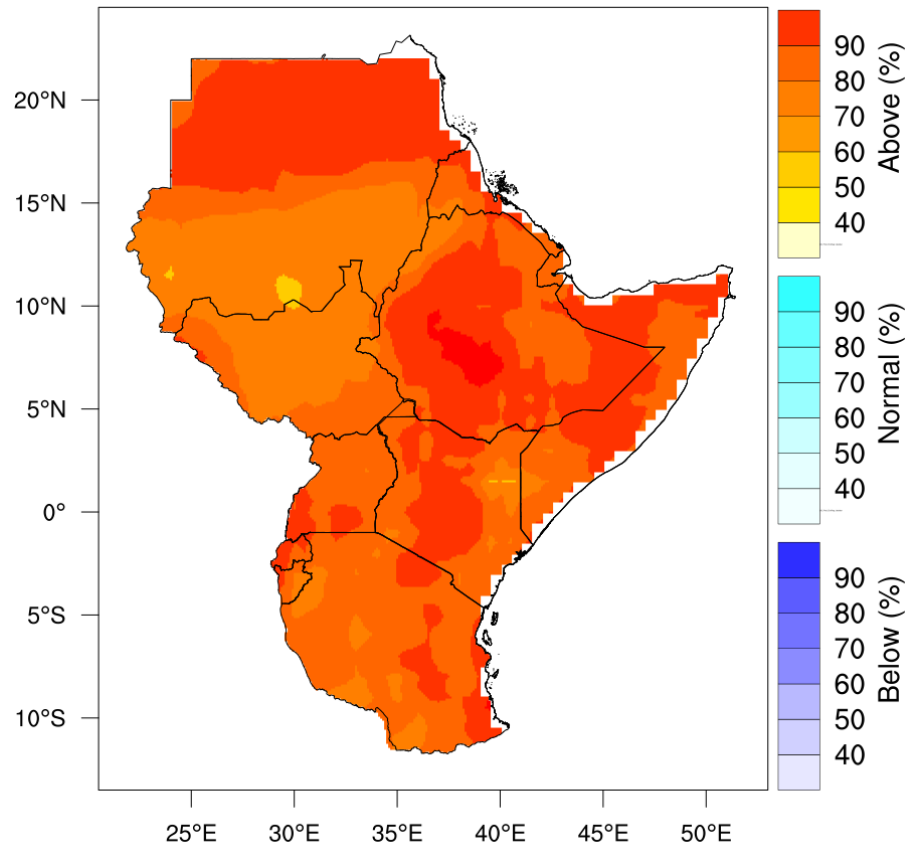
El Niño event is now underway and these are predicted to continue to rise over the next few months.

# AUG-OCT (ASO) 2023 RAINFALL OUTLOOK



- **Wetter than normal** rainfall conditions expected over eastern horn of Africa (southern Ethiopia, much of Somalia, eastern Kenya, southern Uganda and Rwanda).
- **Drier than normal conditions** indicated over much of Sudan, South Sudan, Eritrea, central to northern Ethiopia and parts of northern Uganda and western Kenya).

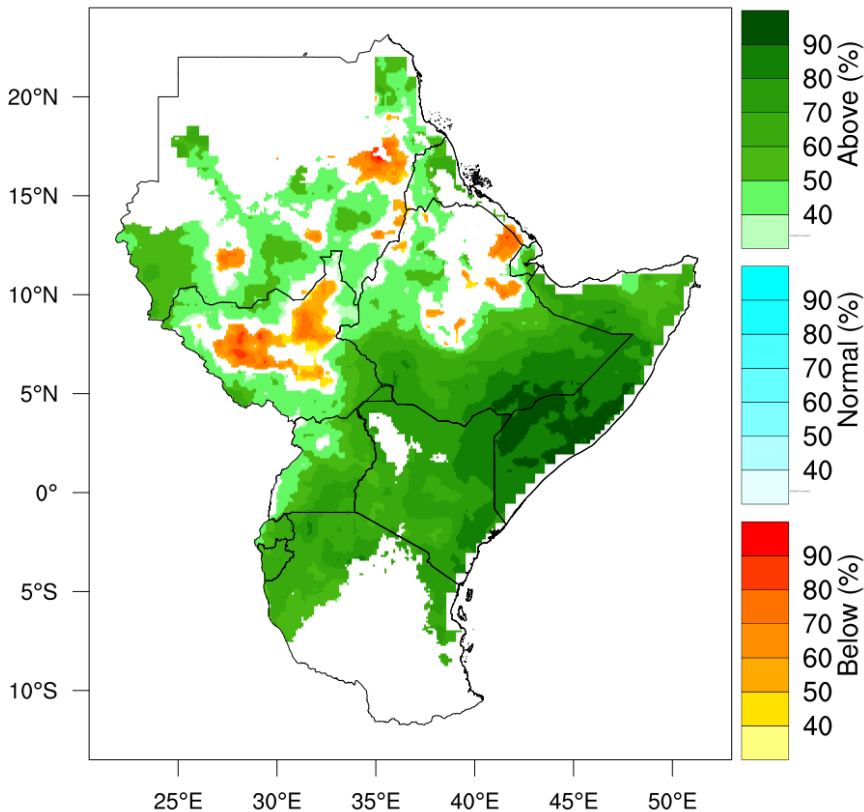
# AUG-OCT (ASO) 2023 TEMPERATURE OUTLOOK



- **Warmer than average temperatures** expected over the entire region with highest probabilities over northern Sudan, Ethiopia, Eritrea, Djibouti, Eritrea, parts of Somalia, Kenya and isolated areas over southern Uganda, western Rwanda and coastal Tanzania.

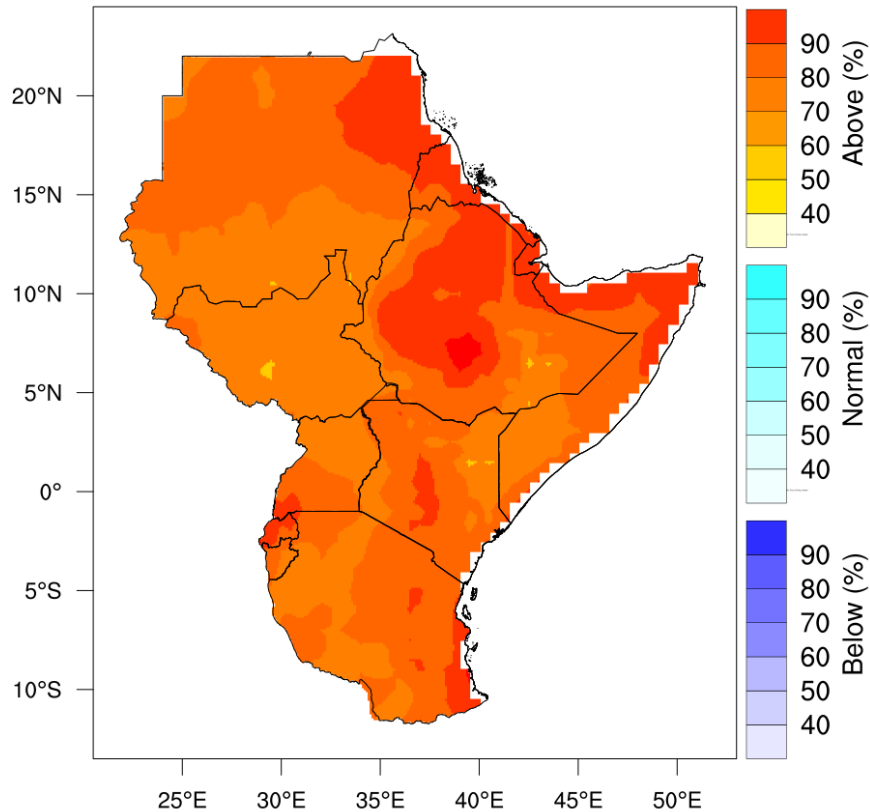


## 2-MONTH LEAD SEP-NOV (SON) 2023 RAINFALL OUTLOOK



- **2-month lead** forecast from 7 downscaled global models
- **Wetter than normal conditions** likely over most parts equatorial of the region
- **Enhanced probabilities of wetter than normal conditions** are indicated over parts of southern Ethiopia, much of Somalia, and eastern Kenya.

# SEP - NOV (SON) 2023 TEMPERATURE OUTLOOK



- **Warmer than average temperatures** expected over the region
- **Higher probabilities for warmer than average temperature** are predicted over parts of Ethiopia, Eritrea, Djibouti, northern Somalia and coastal parts of Tanzania.

## SUMMARY

- The eastern parts of the GHA region experienced above normal rainfall during MAM 2023.
- Currently, both ENSO and IOD are in a positive phase, and there is a strong probability that both events will continue throughout the SOND season.
- The rainfall outlook for ASO 2023 indicates drier than normal over the northern parts of the region and wetter than normal over the eastern parts of the region.
- The 2-month lead forecast for SON 2023 high likelihood of wetter than normal over most parts of the region.
- The increased rainfall could also lead to more **extreme weather events such as flash floods, riverine floods, mudslides, and landslides**

# ALERTS AND EARLY WARNING



The screenshot shows the ICPAC website interface. At the top left is the ICPAC logo, which includes the IGAD emblem and the text 'ICPAC IGAD Climate Prediction and Applications Centre'. To the right of the logo are links for 'SUBSCRIBE', 'LANGUAGE' (with a globe icon), 'SEARCH' (with a magnifying glass icon), and a 'CONTACT US' button. Below the header is a navigation menu with the following items: 'SERVICES', 'PRODUCTS', 'MEDIA', 'PUBLICATIONS', 'EVENTS', 'ABOUT US', 'DATA & TOOLS', and 'RCC'. The main content area features a breadcrumb trail: 'HOME / NEWS / EL NIÑO SOUTHERN OSCILLATION AND INDIAN OCEAN DIPOLE WATCH FOR THE EASTERN AFRICA - SHORT RAINS SEASON (OCTOBER-DECEMBER 2023)'. The title of the news article is 'El Niño Southern Oscillation and Indian Ocean Dipole Watch for the Eastern Africa - short rains season (October-December 2023)'. Below the title, it shows the date '17 Jul, 2023', the category 'Alerts and Early Warning', and a view count of '149'. There are also social media sharing buttons for Facebook and Twitter.

Link: <https://www.icpac.net/news/el-ni%C3%B1o-southern-oscillation-and-indian-ocean-dipole-watch-for-the-eastern-africa-short-rains-season-october-december-2023/>

**THANK YOU!!**

[www.icpac.net](http://www.icpac.net)