

PROGRESS OF MAM 2024 AND OUTLOOK FOR MJJ 2024 RAINFALL SEASON OVER THE GREATER HORN OF AFRICA (GHA) REGION

THE SIXTEENTH AFRICAN CONTINENTAL CLIMATE OUTLOOK FORUM (ACCOF-16), 23 APRIL 2024

Hussen Seid
IGAD Climate Prediction and Applications Centre (ICPAC)

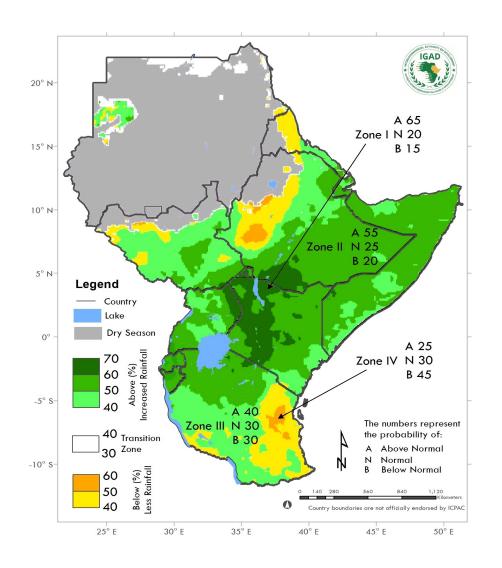


OUTLINE

- ❖ Progress of Mar-May (MAM) 2024 Rainfall Season
- State of Global Climate Drivers
- Sub-seasonal to Seasonal Forecasts



MAM 2024 RAINFALL OUTLOOK ISSUED IN FEB 2024

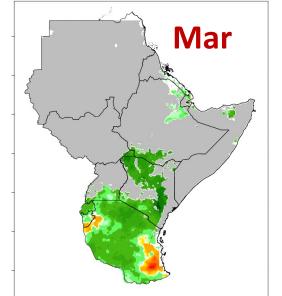


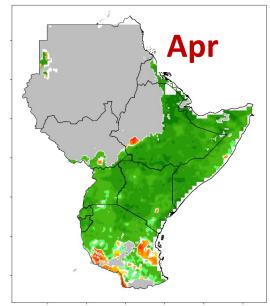
- Wetter than normal conditions expected over most parts GHA, specifically over Kenya, Somalia, southern Ethiopia, South Sudan, Uganda, Burundi, Rwanda, and north-western Tanzania.
- Highest probabilities indicated in central to western Kenya and in cross-border areas of Ethiopia, Kenya, and Uganda.
- Drier than normal conditions are expected over parts of eastern Tanzania, western Ethiopia and localized areas in western South Sudan.

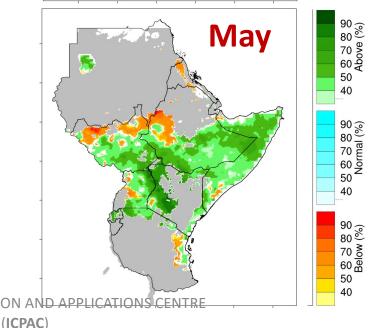


MONTHLY RAINFALL OUTLOOKS

- March: Wetter-than-normal conditions over the southern GHA & drier-thannormal conditions over southeastern & northwestern Tanzania
- April: Wetter-than-normal conditions over most parts of the equatorial & southern GHA, except for southern Tanzania.
- May: Anticipated drier-than-normal conditions in parts of western Ethiopia, northern South Sudan, and localized areas in Uganda.

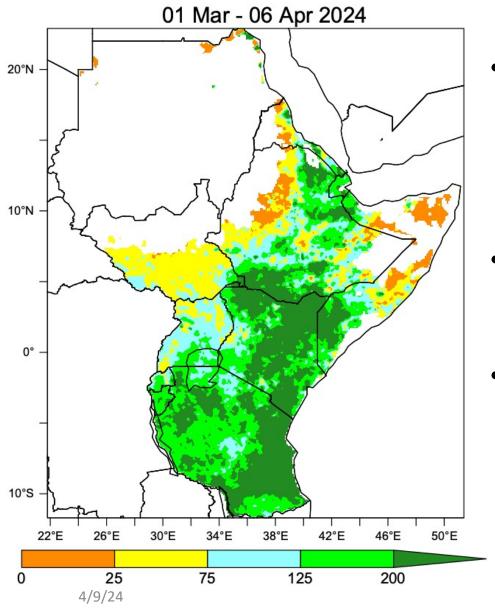








01 Mar – 06 Apr 2024 Rainfall Performance



- Wetter than normal conditions were observed in much of Tanzania, Rwanda, Burundi, Kenya, southern Somalia, and parts of southern and north-eastern Ethiopia.
- Normal conditions recorded much of Uganda, western Kenya and parts of southern Ethiopia.
- Dry than normal conditions were observed in over southern South Sudan, and north-western Ethiopia and central to northern Somalia.



Heavy Rainfall Led to Extensive Flooding in Djibouti, Ethiopia and Kenya



Djibouti from 26-28 March 2024



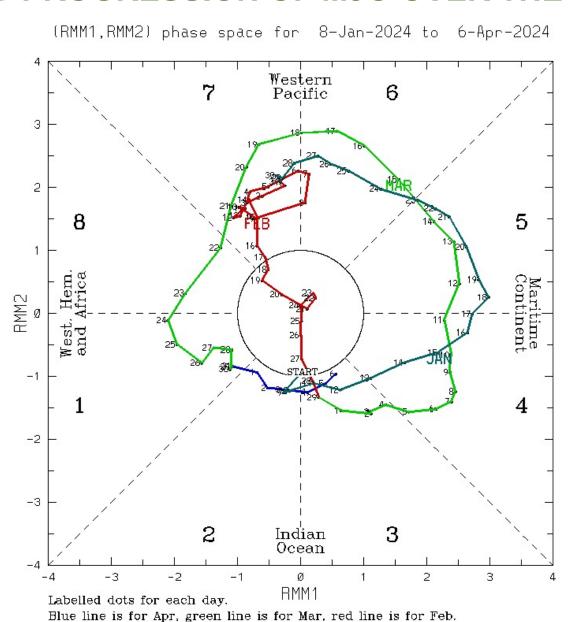




Dire Dawa city, Ethiopia from 27-28 March 2024



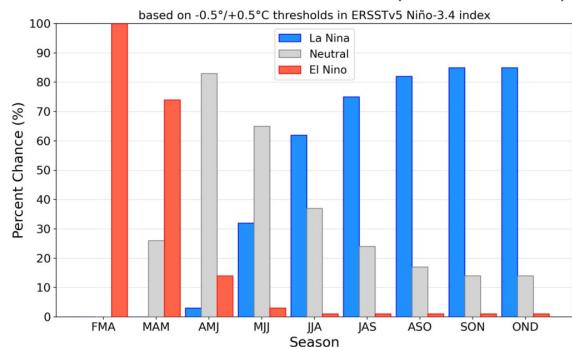
STRENGTH AND PROGRESSION OF MJO OVER THE LAST 3 MONTHs





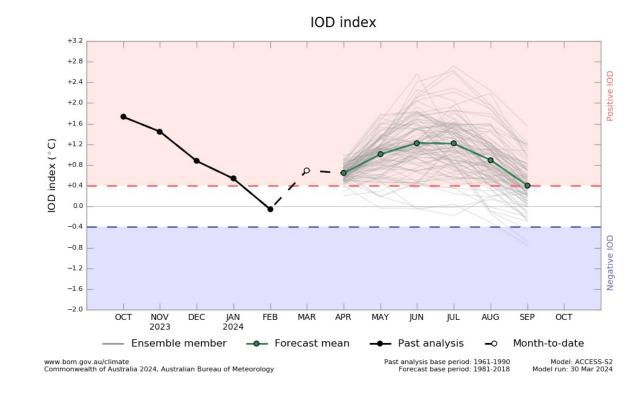
ENSO AND IOD EVOLUTION & OUTLOOK

Official NOAA CPC ENSO Probabilities (issued Mar. 2024)

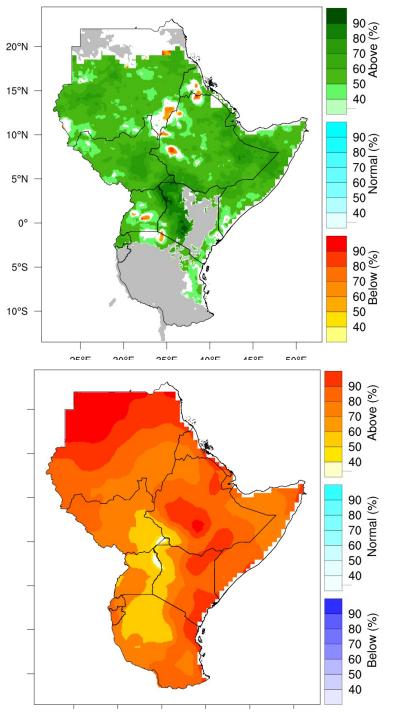




- A transition from El Niño to ENSO-neutral is likely by AMJ, with increasing odds of La Niña developing in JJA 2024
- La Nina conditions are associated with Enhanced rainfall during M/JJA season



- The Indian Ocean Dipole (IOD) is currently positive.
- IOD strength is likely to remain in positive phase for the coming few months
- The linkage between IOD and M/JJA season is weak.



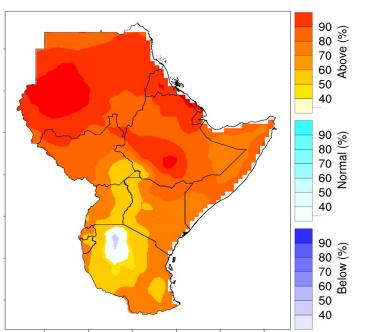
MAY-JUL 2024 OUTLOOK

- Wetter than usual conditions expected over most parts of the northern sector including Sudan, South Sudan, Eritrea, Ethiopia, Somalia, western Kenya and Uganda.
- The southern parts the region is generally dry during this season

• Warmer than usual temperatures indicated over most parts of the region.



90 (%) 70 00 40 Apove (%) 50 90 (%) Normal (%) 50 50 40

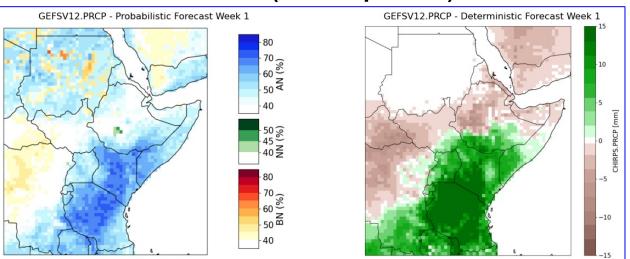


MAY 2024 FORECAST

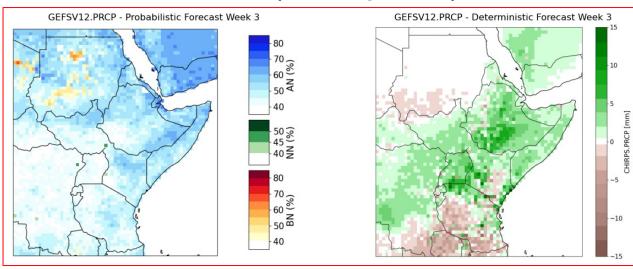
- Wetter than usual conditions expected over southern Ethiopia, Somalia, western Kenya, north-eastern Uganda, and eastern parts of South Sudan.
- Drier than usual conditions expected over parts of western Ethiopia, north-western South Sudan, central Uganda and coastal parts of Kenya.
- Warmer than usual conditions expected over most parts of the region
- Average to cooler than usual conditions expected over parts of central and northern Tanzania.

Forecast Initialised on 05 Apr 2024

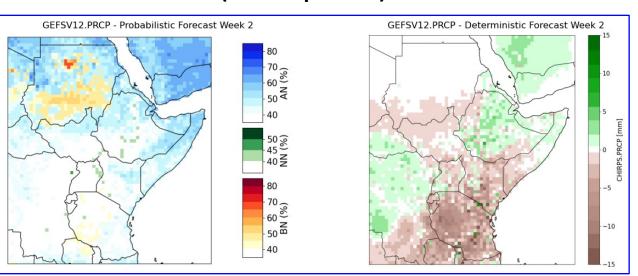
Week1 (06-12 Apr 2024)



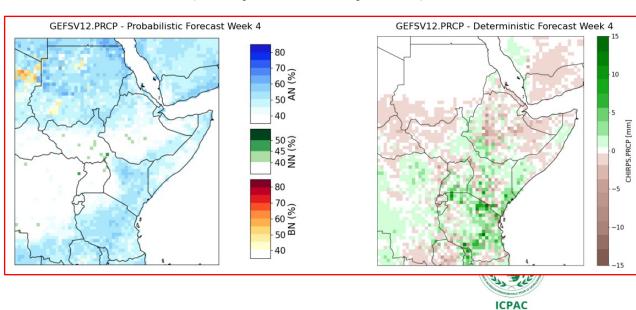
Week3 (20-26 Apr 2024)

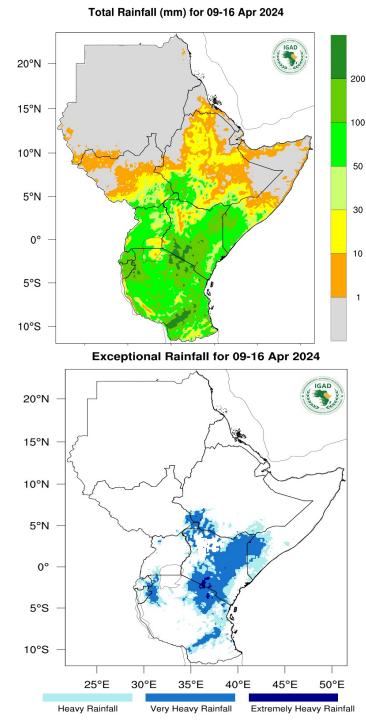


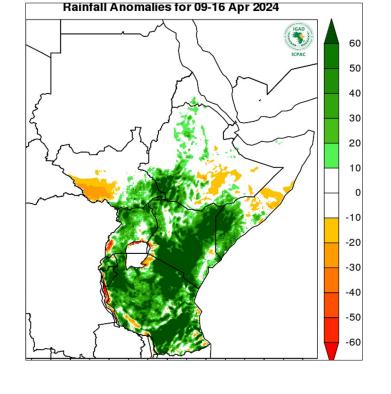
Week2 (13-19 Apr 2024)

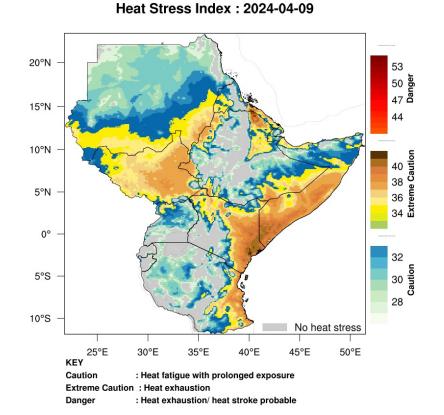


Week4 (27 Apr - 03 May 2024)









WEEKLY FORECAST

- Wetter than usual conditions forecasted in equatorial and southern regions of GHA, with heavy rainfall anticipated in central to northern Kenya, parts of northern Tanzania, southern Somalia, and southwestern Ethiopia.
- Elevated heat stress expected in South Sudan, eastern Kenya to southern Somalia, coastal areas of Tanzania, and northeastern Ethiopia.

Thank you!!

www.icpac.net

