

ICPAC: CLIMATE SERVICES FOR EASTERN AFRICA

- Established in 1988 as the Drought Monitoring Centre (DMC) for Eastern Africa
- ICPAC serves 11 East African countries.



OUR SERVICES



Climate Forecasting



Disaster Risk Management



Water Resources



Climate Information Dissemination



Agriculture and Food Security



Environmental Monitoring



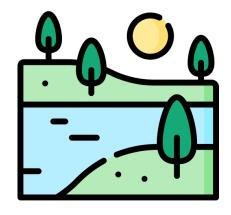
Capacity Development



Climate Change

ICPAC: WEATHER, HYDROLOGICAL, AND CLIMATE SERVICES







Weather and climate forecast

Hydrological forecast

Disaster Risk management

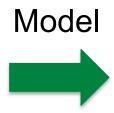
EARTH OBSERVATION FOR WEATHER FORECASTING

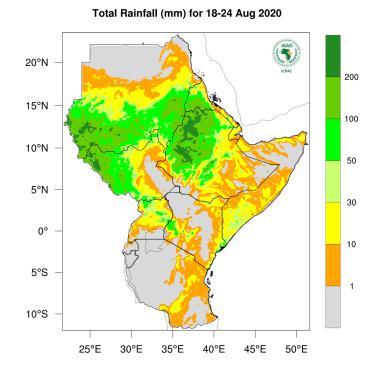
Satellite Observations



Ground Observations

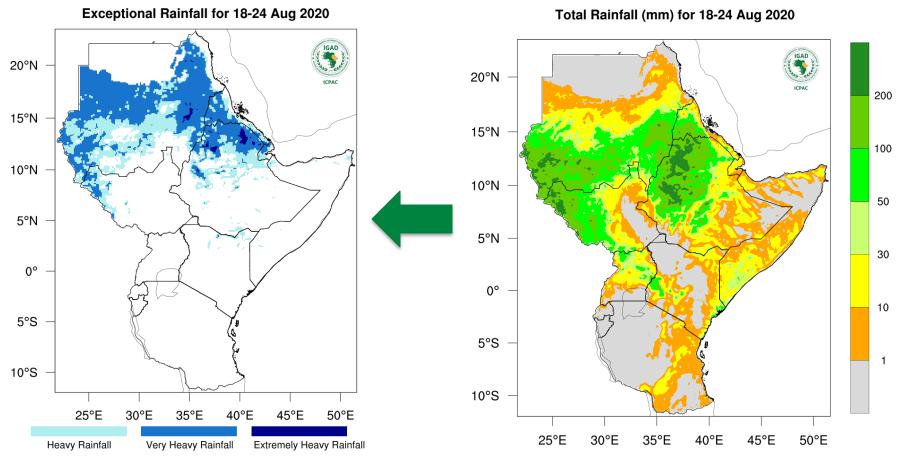


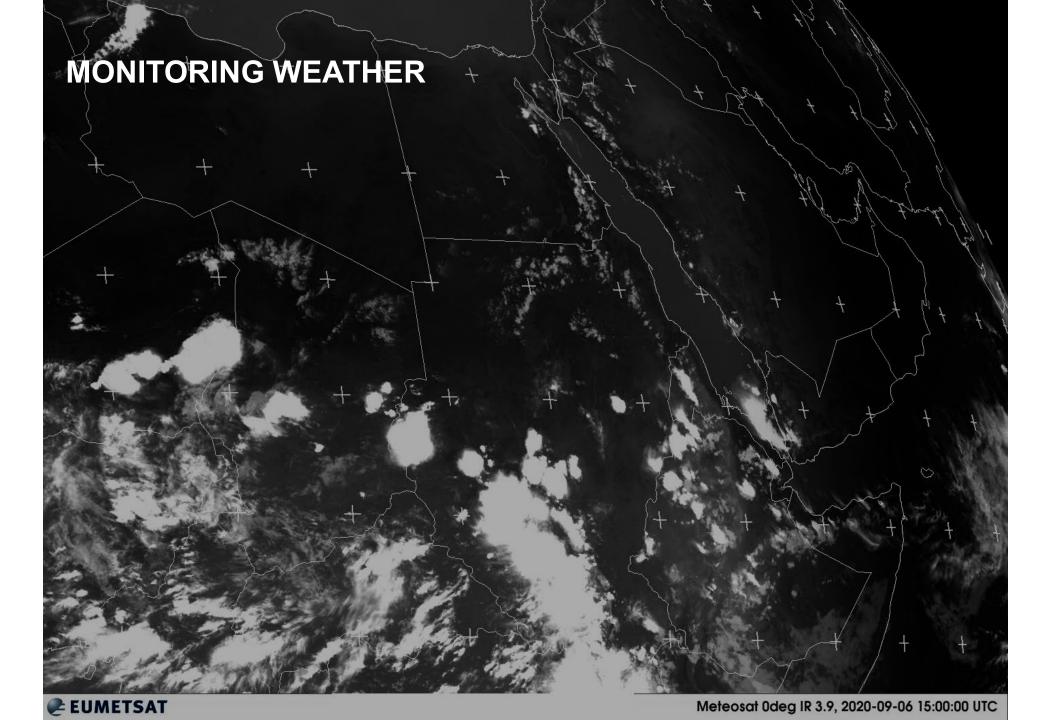






EARTH OBSERVATION FOR WEATHER FORECASTING





MONITORING THE CLIMATE

Satellite Observations



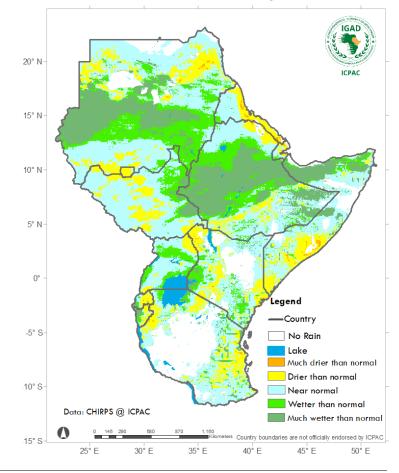
Ground Observations



Analysis

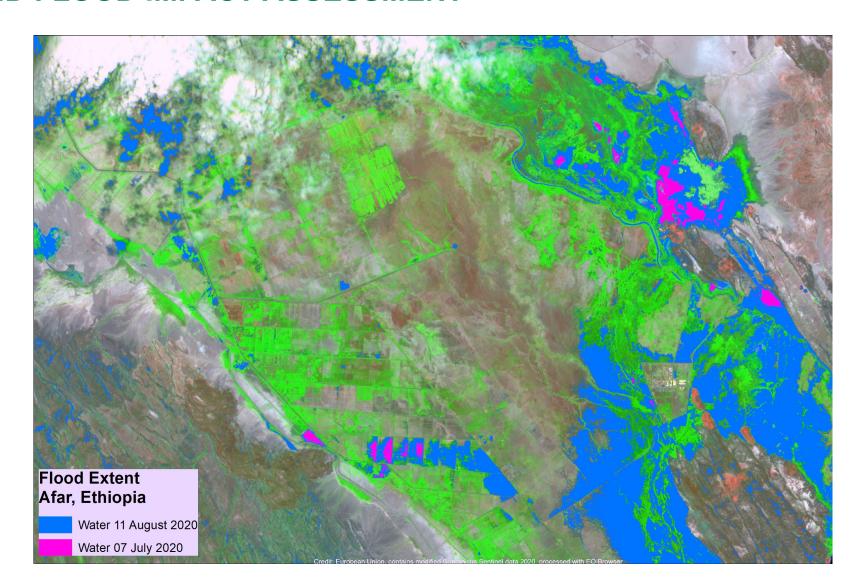


% LTM for third dekad(21-31) of August 2020

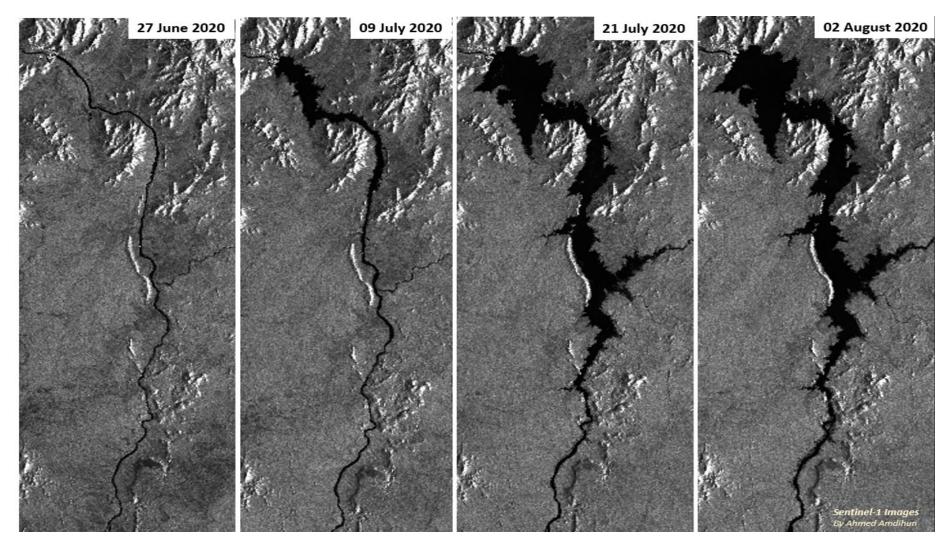




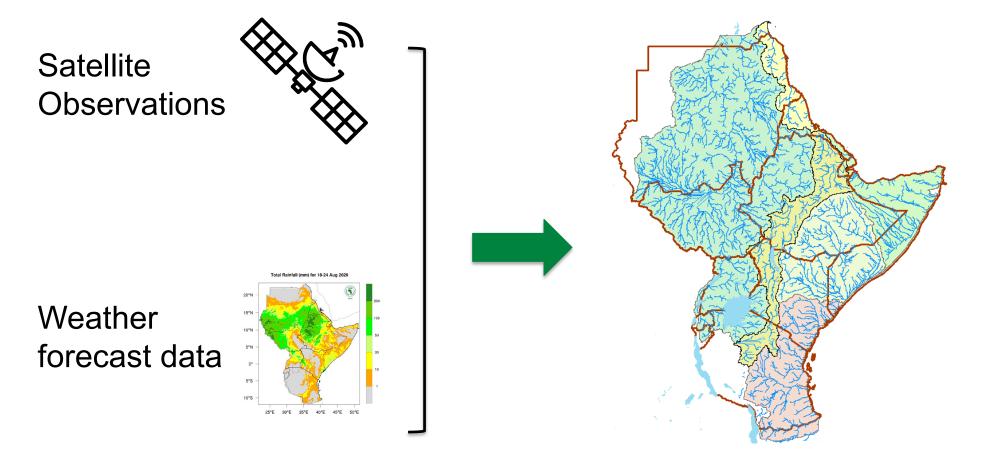
EARTH OBSERVATION FOR FLOOD FORECASTING AND FLOOD IMPACT ASSESSMENT



EARTH OBSERVATION FOR FLOOD FORECASTING AND FLOOD IMPACT ASSESSMENT

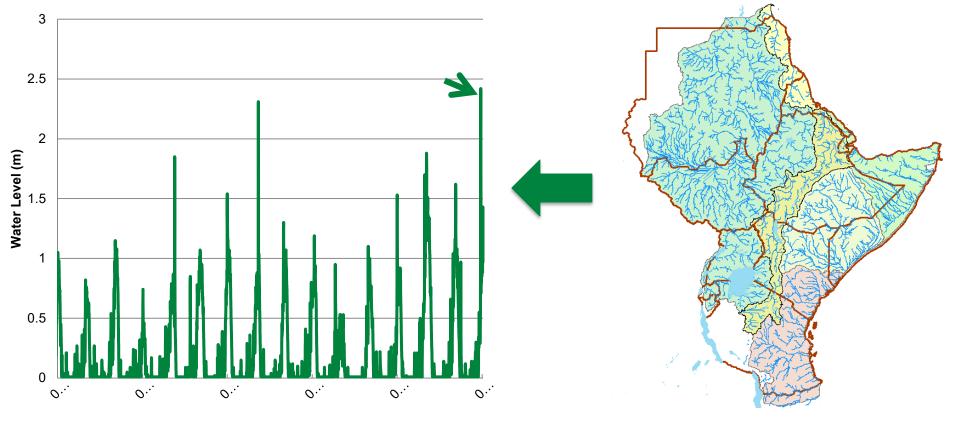


EARTH OBSERVATION FOR HYDROLOGICAL FORECASTING



ICPAC WEATHER, HYDROLOGICAL, AND CLIMATE SERVICES

Water level in the Gash river in eastern Sudan



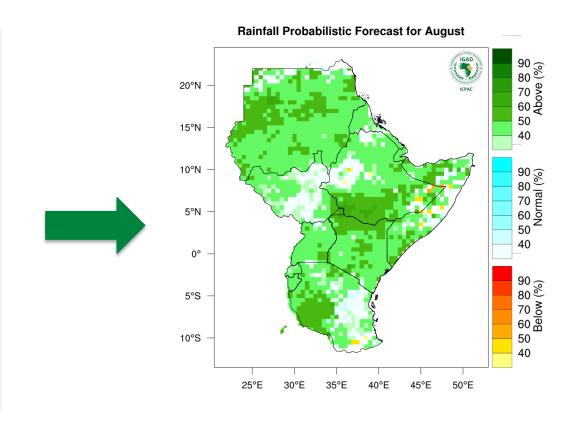
ICPAC WEATHER, HYDROLOGICAL, AND CLIMATE SERVICES

Satellite Observations

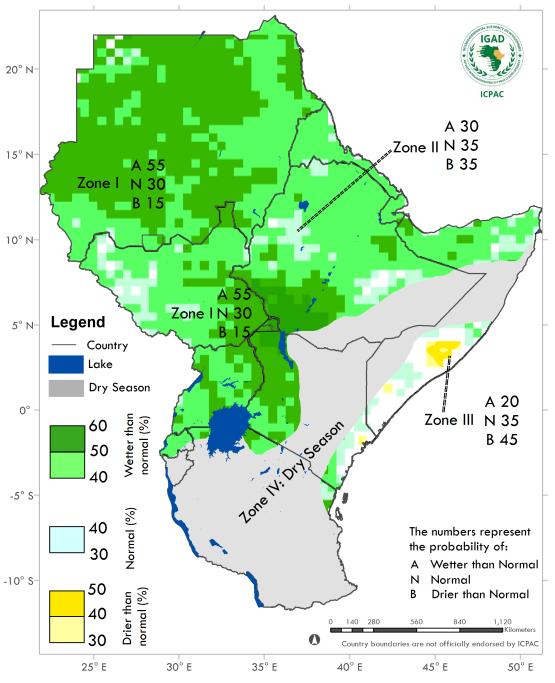


Ground Observations

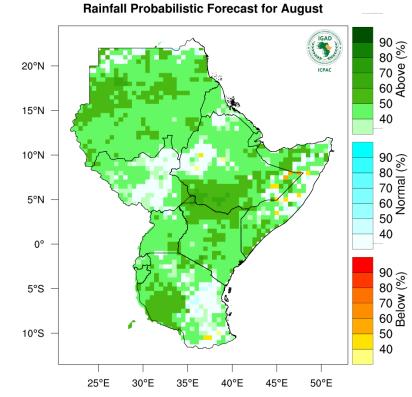






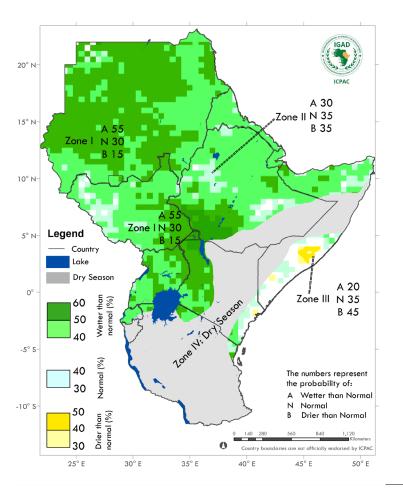


ND CLIMATE SERVICES





EARTH OBSERVATION FOR USER ADVISORIES



Analysis of impacts and advisories



Disaster Risk Management

s and pasture availability. Resource based conflicts could be expected

- Prepare a contingency plan. Consider all sectors in the response plan
- · Closely monitor the season and take action in providing water and pasture



Agriculture and Food Security

Drier than usual conditions, late onset and long dry spell might lead to agricultural drought, presenting poor prospects for the season. The impacts of COVID-19, desert locust, past climatic and non-climatic shocks might escalate food insecurity. In the pastoral communities scarcity of grazing resources until May 2021 might occur. Across Pastoral and Agro-pastoral livelihood areas, early depletion of water and pasture may lead to scarcity of milk and other products, negatively impacting food security and nutritions. This may trigger resource-based conflicts, atypical pastoral migration, declined calving and kidding rates.

- Immediately disseminate this (early warning) information to decision makers
 Early land preparation for the short rains cultivation. Promote early maturing crops and varieties
- Expand irrigated areas, rehabilitate irrigation infrastructure and subsidise irrigation equipment
- + Expand and promote value chain inputs subsidy and crop insurance cover to cushion farmers Mitigate impacts of COVID-19 on agriculture across the country, intensify desert locust control measures
- . Develop contingency plans and prepare to act early in response to the imminent humanitarian crisis
- Provide adequate kitchen garden kits to vulnerable Households to take care of their nutritional needs
- Utilise the delayed onset (and forecasted dry conditions) to harvest maturing crops in the field
- Repair/rehabilitate irrigation and water harvesting infrastructure across irrigated areas such as Kano, Bunyala and Ahero, and other parts of the country that are currently experiencing flooding
- In areas that might receive over 300 mm (L. Victoria region and central highlands), maximise cultivation of high yielding varieties of all important seasonal crops such as maize, sorghum, potatoes, beans, millet, rice, cassava, etc. Closely monitor pasture and water across all pastoral and agro-pastoral areas until May 2021 – and plan for feed/ water assistance (water tracking, fodder supplementations for the breeding stock, etc.)
- Use the available grazing resources sparingly. Harvest and keep water, dry herbage and standing hay
- · Promote livestock insurance cover to cushion farmers against impacts of climate variability



Water and Energy

Water shortages are expected for both urban and energy production especially towards the end of the season. There is also a low risk of flooding in a few areas.

- · Water conservation measures, repair and desilting of water storage and conveyance systems
- . Increase water users awareness of possible water supply shortages to improve water use efficiency
- · Coordinate with Disaster Risk Management agencies



Livestock

Expected deterioration of pasture in quality and quantity and drying of water pans, increased trekking distance to water sources impacting on body condition and productivity. Outward migration to dry season fall back areas including out of the counties. Weakening price trends, declining body condition, effects of COVID-19

- Intensify DL control both aerial and on the ground
- + Karamoja area: Close monitoring and activation of peace committees in various parts of the country
- Disease surveillance, vaccinations and treatments to continue. Comduct vaccinations before movements begin.
- Coastal strip expected to receive animals from North East, monitoring water and pastures for conflict preve Monitor stocks for offtake. Supplemental feeds and water may be necessary



Health

Increased Malaria transmission in the western part of Kenya. Malnutrition due to inadequate food supply. Due to below normal rains, scarcity of water may lead to water related and water washed diseases, cholera, typhoid, scabies, trachoma and including COVID 19. Dryness and winds may lead to dust and lead to respiratory allergies

Expediting distribution and Promotion of ITN use



SUMMARY AND CONCLUSIONS

- Earth observation is key to deliver quality weather, climate and hydrological services
- In regions such as East Africa, prone to recurrent disasters, having timely warning information and climate services can help build resilience, especially under a changing climate.

THANK YOU! www.icpac.net

