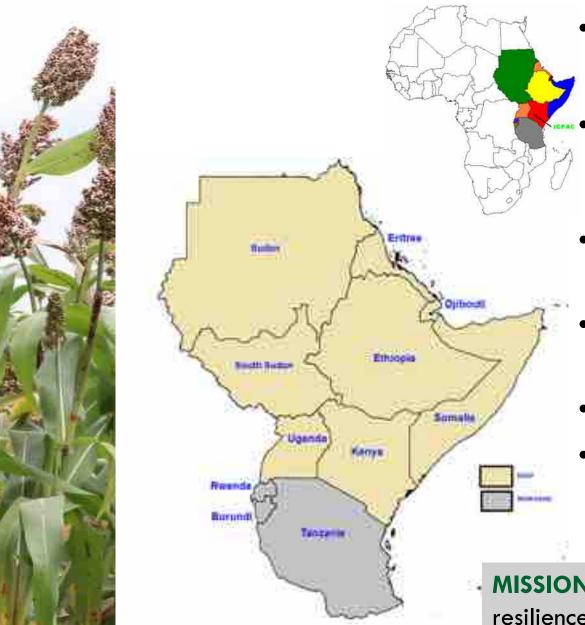


ABOUT IGAD CLIMATE PREDICTION AND APPLICATIONS CENTRE-ICPAC



- Established in 1989 as the Drought Monitoring Centre, Nairobi (DMCN);
 - 2007, the Protocol establishing the Centre signed & the name changed to: IGAD Climate Prediction and Applications Centre (ICPAC)
- A **WMO Regional Climate Centre** (WMO-RCC) for Eastern Africa.
- A member of AUC/NEPAD **Network for Water Centers of Excellence**.
- ICPAC has an Observer Status with the **UNFCCC**
- Part of Global Agriculture Monitoring Initiative -GEOGLAM on Crop Monitor for Early Warning since 2017

MISSION: Foster climate services and knowledge to enhance community resilience for prosperity in the Greater Horn of Africa

MONITORING AND MEASURING AGRICULTURE TRENDS USING

EARTH OBSERVATION Livestock production pontential State and changes in land used for Rangeland ivestock production mapping Crop land mapping Food production potential State and changes in land used for food Crop type Food production potential State and changes in land used for food Food production potential State and changes in land used for food Crop condition Early warning for food security Crop yleld Forecast/ Estimate Early warning for food security Targeting pontential mitigation

TABLE 1. STEPS UNDER EACH OF THE ELEMENTS OF THE FORMULATION OF NATIONAL ADAPTATION PLANS, WHICH MAY BE UNDERTAKEN AS APPROPRIATE

ELEMENT A. LAY THE GROUNDWORK AND ADDRESS GAPS

- . Initiating and launching of the NAP process
- Stocktaking: identifying available information on climate change impacts, vulnerability and adaptation and assessing gaps and needs of the enabling environment for the NAP process
- 3. Addressing capacity gaps and weaknesses in undertaking the NAP process
- Comprehensively and iteratively assessing development needs and climate vulnerabilities

ELEMENT B. PREPARATORY ELEMENTS

- . Analysing current climate and future climate change scenarios
- Assessing climate vulnerabilities and identifying adaptation options at the sector, subnational, national and other appropriate levels
- Reviewing and appraising adaptation options
- . Compiling and communicating national adaptation plans
- 5. Integrating climate change adaptation into national and subnational development and sectoral planning

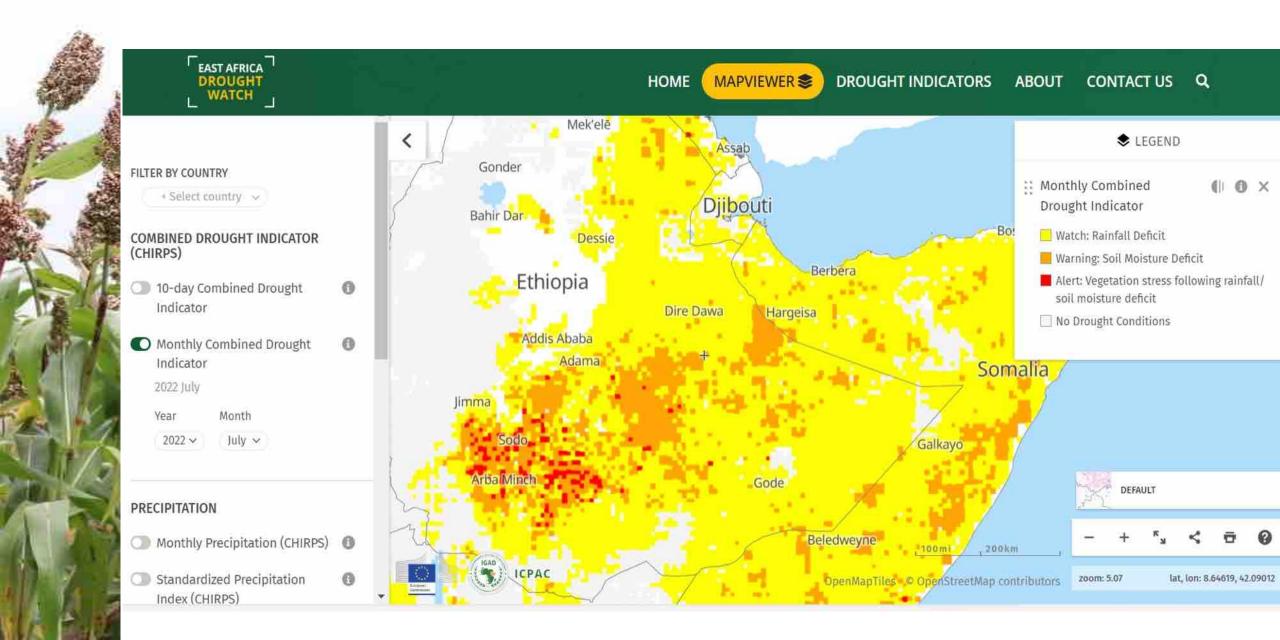
ELEMENT C. IMPLEMENTATION STRATEGIES

- Prioritizing climate change adaptation in national planning
- 2. Developing a (long-term) national adaptation implementation strategy
- 3. Enhancing capacity for planning and implementation of adaptation
- Promoting coordination and synergy at the regional level and with other multilateral environmental agreements

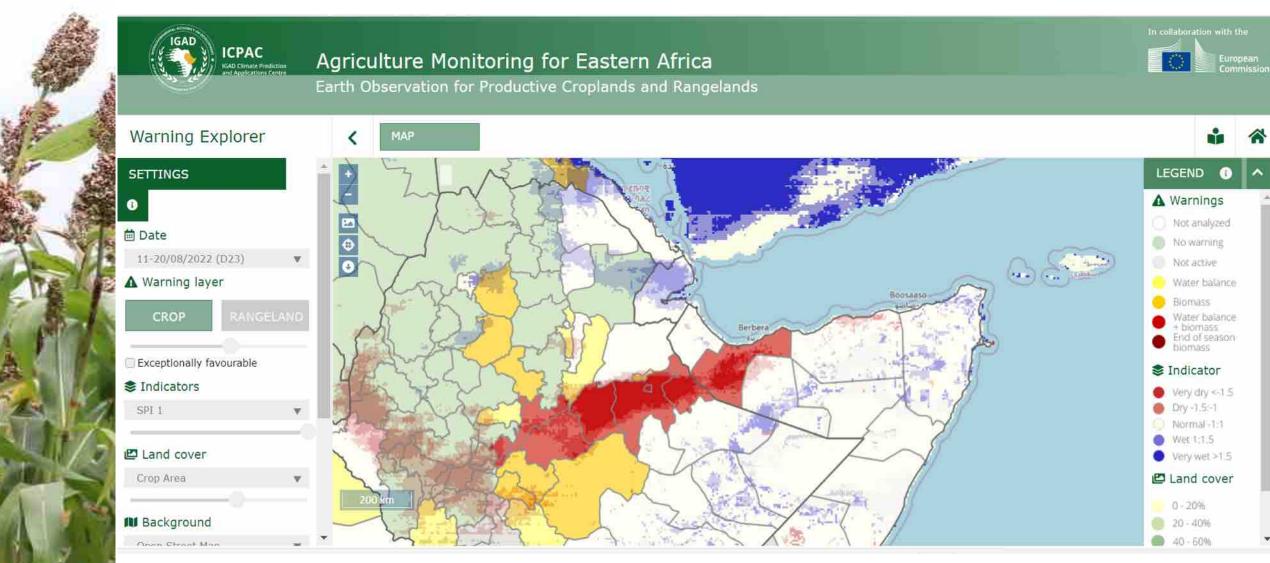
ELEMENT D. REPORTING, MONITORING AND REVIEW

- 1. Monitoring the NAP process
- 2. Reviewing the NAP process to assess progress, effectiveness and gaps
- 3. Iteratively updating the national adaptation plans
- L. Outreach on the NAP process and reporting on progress and effectiveness.

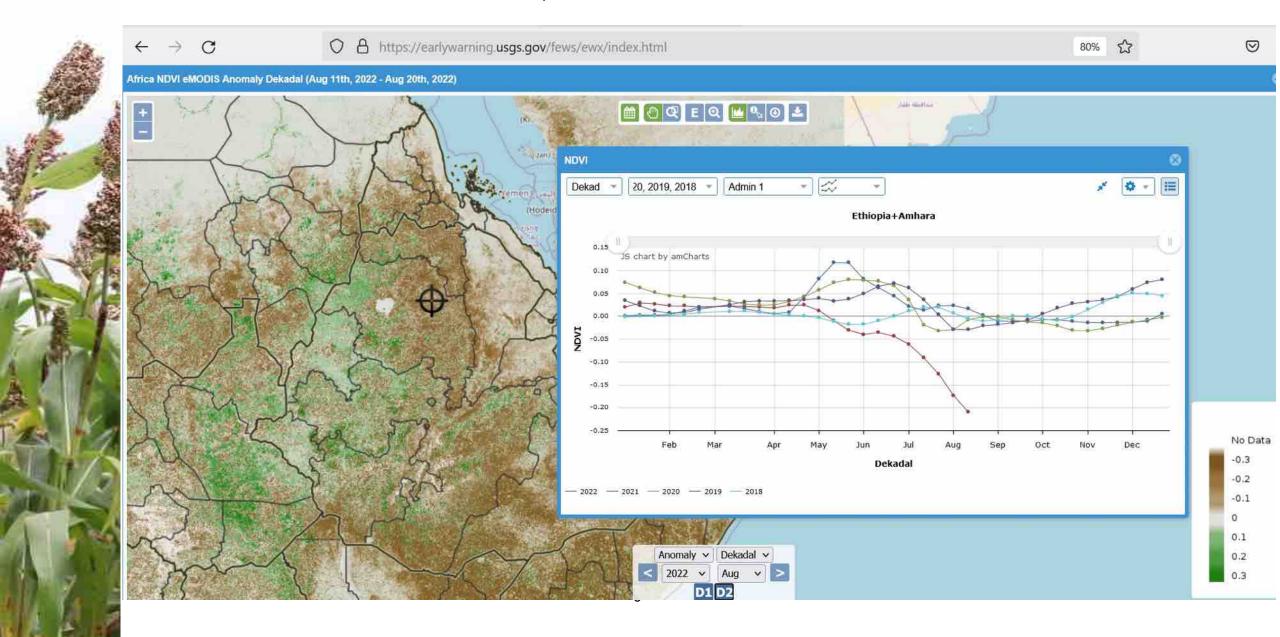
CONVERGENCE MULTIPLE DATA/INFORMATION SOURCES



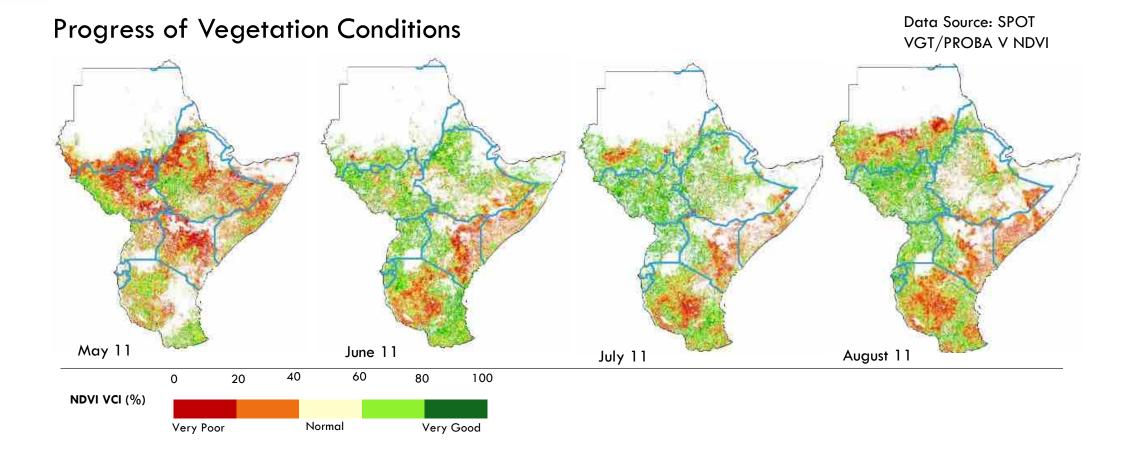
CONVERGENCE MULTIPLE DATA/INFORMATION SOURCES



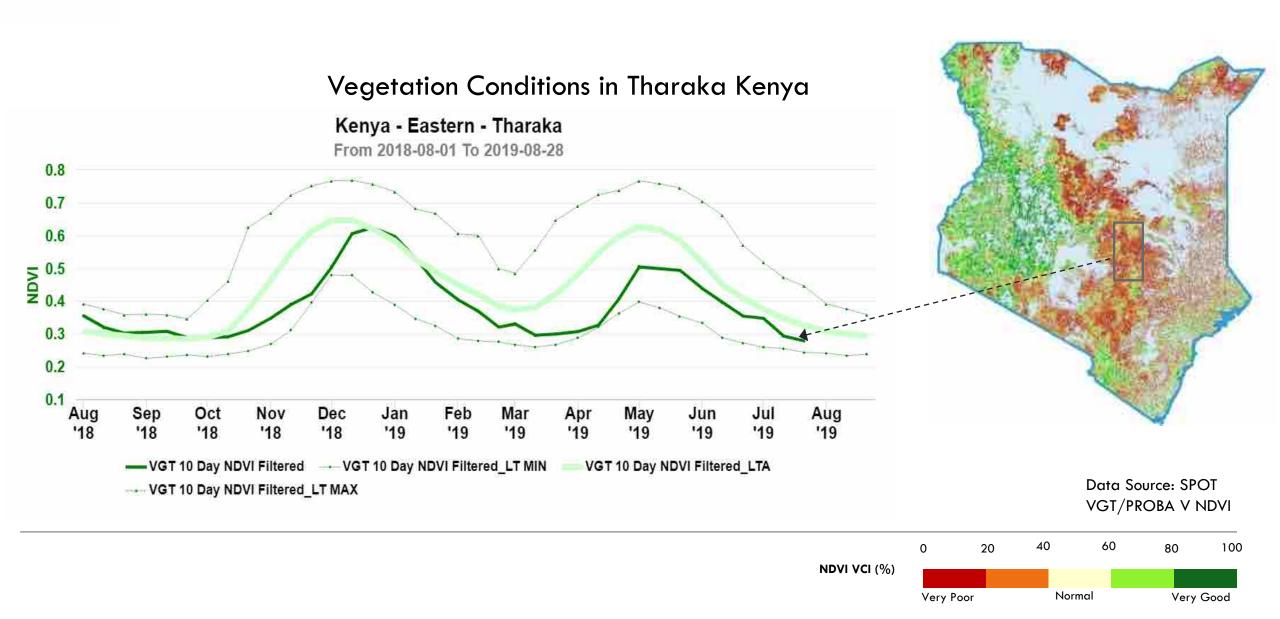
CONVERGENCE MULTIPLE DATA/INFORMATION SOURCES



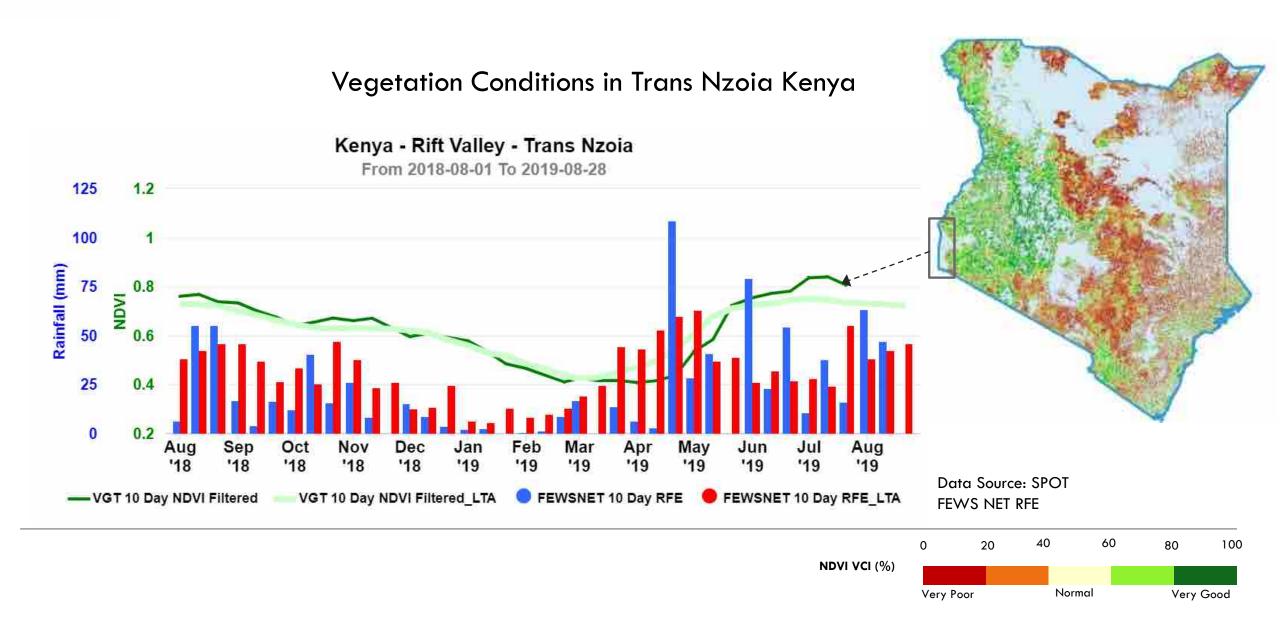
REGIONAL MONITORING OF VEGETATION AND CLIMATE



NATIONAL MONITORING OF VEGETATION AND CLIMATE



NATIONAL MONITORING OF VEGETATION AND CLIMATE



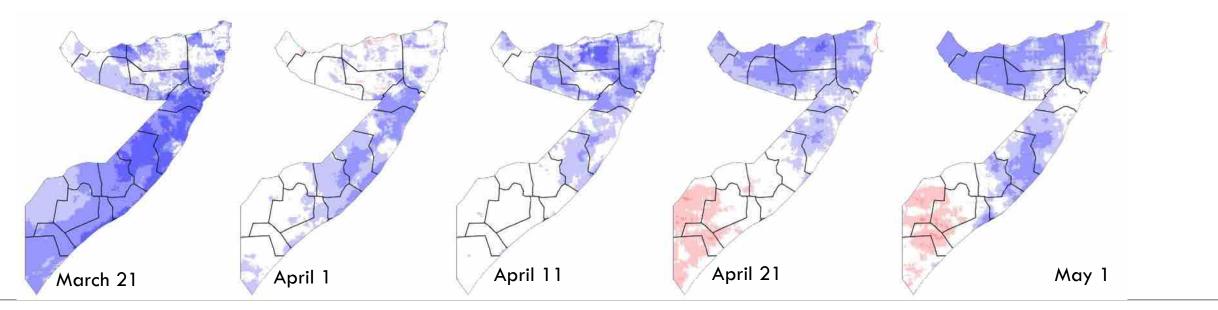
REGIONAL MONITORING OF VEGETATION AND CLIMATE

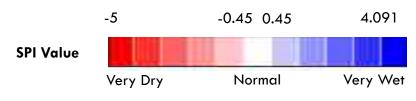
Rainfall Standardized Precipitation Index (SPI) - Somalia

Data Source: eStation

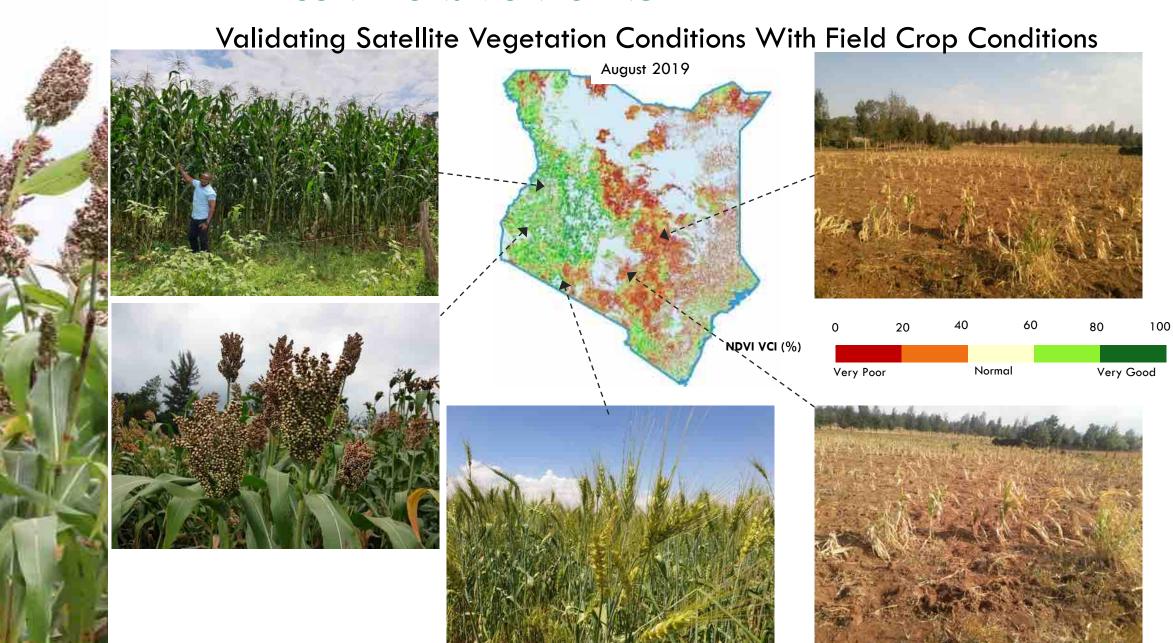
CHIRP Africa
JRC/MARS SPI



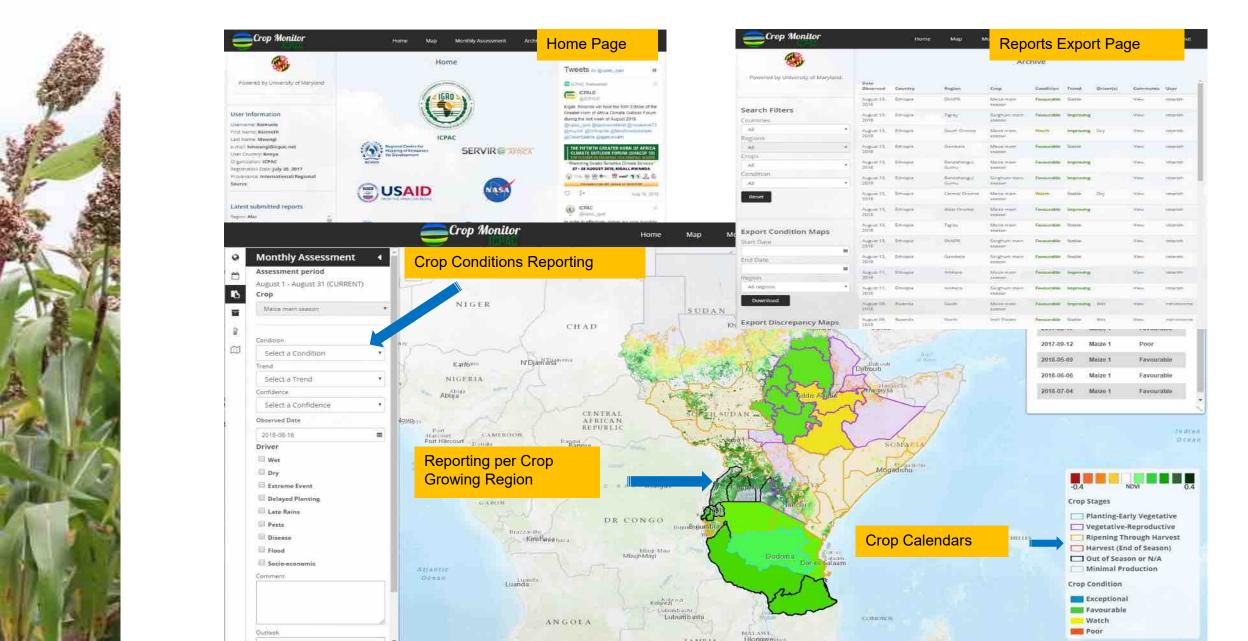




FIELD CONDITIONS MONITORING



CROP MONITORING & REPORTING PLATFORM



CROP MONITORING & REPORTING PLATFORM

Conditions

Exceptional: Conditions are much better than average*attime of reporting. This label is only used during the grain-filling through harvest stages.

Favourable: Conditions range from slightly lower to slightly better than average" at reporting time.

Watch: Conditions are not far from average* but there is a potential risk to final production. The crop can still recover to average or near average conditions if the ground situation improves. This label is only used during the planting-early vegetative and the vegetativereproductive stages.

Poor: Crop conditions are well below average. Crop yields are likely to be 10-25% below average. This is used when crops are stunted and are not likely to recover, and impact on production is likely.

Failure: Crop conditions are extremely poor. Crop yields are likely to be 25% or more below average.

Out of Season: Crops are not currently planted or in development during this time.

No Data: No reliable source of data is available at this time.

"Average" refers to the average conditions over the past 5 years

Drivers

These represent the key climatic drivers that are having an impact on crop condition status. They result in production impacts and can act as either positive or negative drivers of crop conditions.



Wet: Higher than average wetness



Dry: Drier than average.



Hot: Hotter than average.



Cool: Cooler than average or risk of frost damage.



Extreme Events: This is a catch-all for all other climate risks (i.e. hurricane, typhoon, frost, hall, winterkil), wind damage, etc.)



Delayed-Onset: Late start of the season.



Pest & Disease: Destructive insects, birds, animals, or plant disease.



Socio-economic: Social or economic factors that impact crop conditions (i.e. policy changes, agricultural subsidies, government infervention, etc.)



Conflict: Armed conflict or civil unrest that is preventing the planting, working, or harvesting of the fields by the farmers.

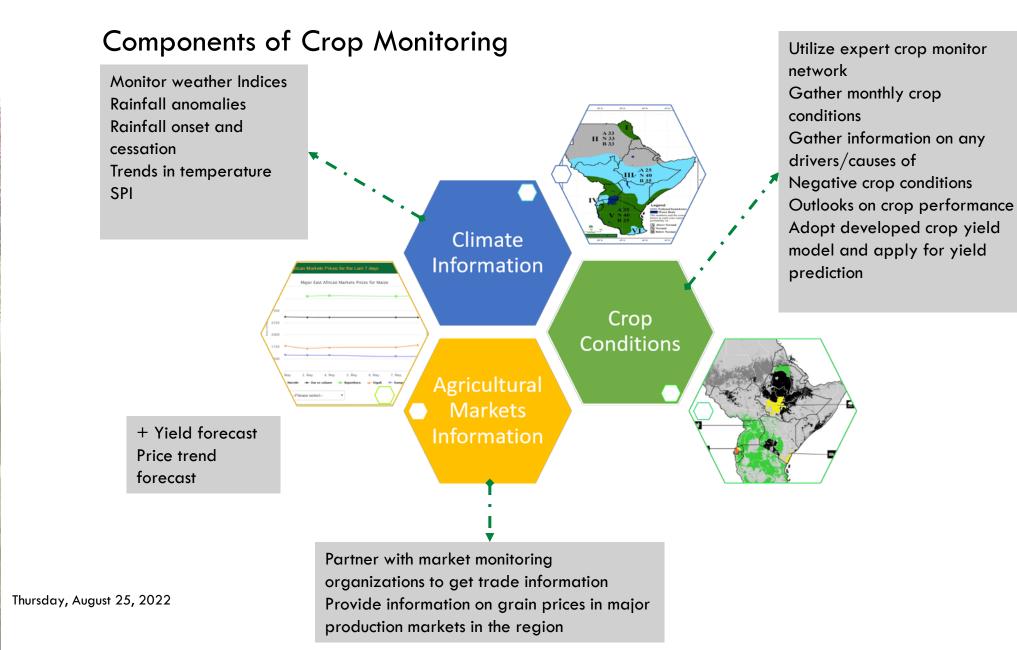




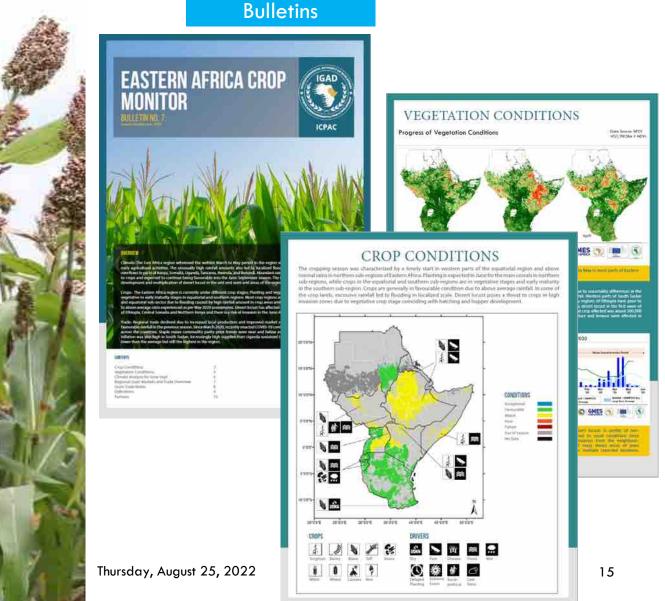




EASTERN AFRICA CROP MONITOR



EASTERN AFRICA CROP MONITOR



Subscribers

Eastern Africa Crop Monitor

characterized by a timely start in-

western parts of the equatorial

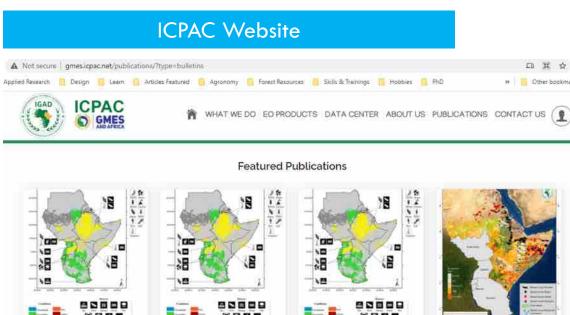
region and above normal rains in

The cropping season was

June 2020

15/06/2020

2339



Eastern Africa Crop Monitor

The crop sepson was initially

characterized by a false start in

western parts of the equatorial

region and late rains in northe...

July 2019

15 07 2019

Desert Locust Prediction

in the current desert locust

invasion areas of Eastern Africa

region, locust swarms have been

reported in the last 6 weeks in n,...

December, 2020

09 12 2020

Eastern Africa Crop Monitor

characterized by an early start in

region and higher than normal rains

western parts of the equatorial

December 2019

The crop season was

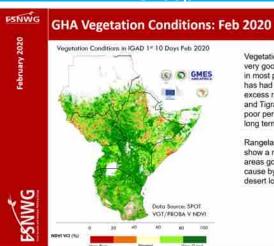
15 12 2019

EASTERN AFRICA CROP MONITOR



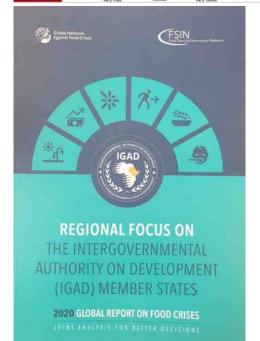


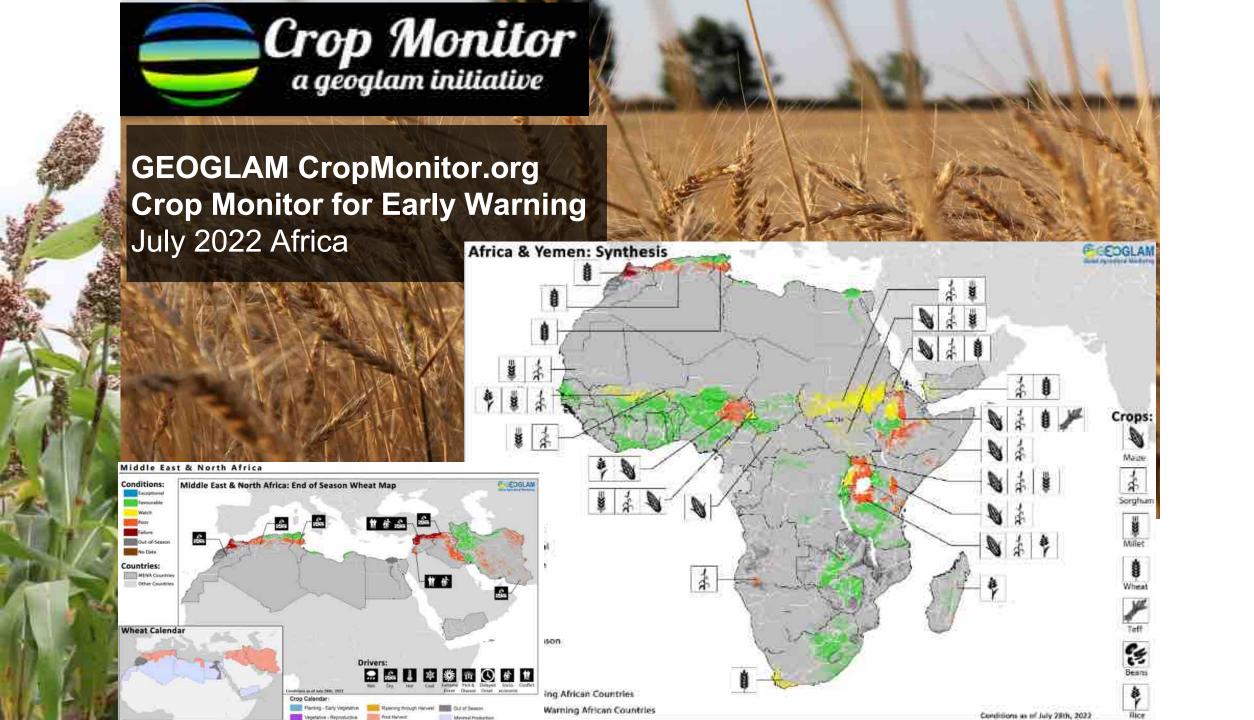
Food Security Nutrition Working Group



Vegetation Condition Index (VCI) show good and very good vegetation due to above average rains in most parts of the region. South Sudan however has had vegetation affected by flooding caused by excess rainfall at the in Sept-Dec 2019. Amhara and Tigray Ethiopia has parts with poor to very poor performance due to conditions poorer than long term or usual conditions.

Rangeland areas of Ethiopia, Kenya and Somalia show a mixture of very poor, poor and some areas good vegetation conditions. This could be cause by above average seasonal rainfall, and desert locust invasion in some areas.

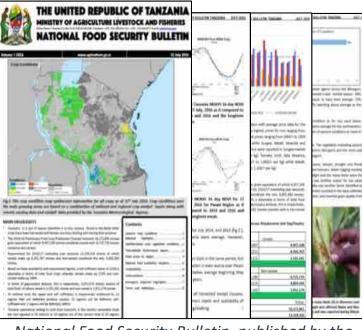




NATIONAL CROP MONITORING & REPORTING PLATFORM



Tanzania

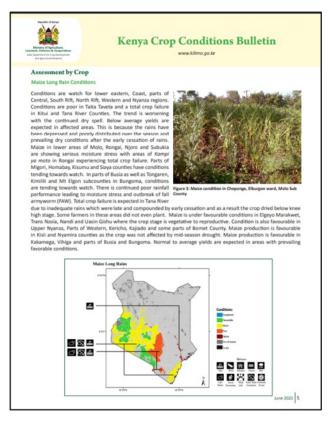


National Food Security Bulletin, published by the Tanzania Ministry of Agriculture Food Security, National Food Security Division

Rwanda

Ethiopia

Kenya



Mozambique



CROP MONITOR REPORTING ON FOOD SECURITY FOR EARLY ACTION





Drought

- Consecutive seasons of below average rains



Conflict and insecurity

- Leading to loss of lives, displacement, loss of livelihoods, assets



Macro-economic challenges

- Inflation and currency depreciation
- Limit food access



COVID-19

 Socio-economic impacts including disruption and loss of livelihoods
 Urban populations hardest hit



Displacement

- 4.79 million refugees and asylum seekers and 10.59 million IDPs (As of August 2021)



Transboundary Pests

-Risk of proliferation persists, though currently limited by poor seasonal rains





www.icpac.net www.igad.int