



TRAINING WORKSHOP ON CLIMATE SERVICES FOR BUILDING CLIMATE RESILIENCE OF THE AGRICULTURE SECTOR IN AFRICA USING CLIMTAG



October 9-11, 2023

 **CROSS ROADS Hotel, Lilongwe - Malawi**



CLIMTAG INTRODUCTION & KLIMPALA OVERVIEW

by

N. Godefroid

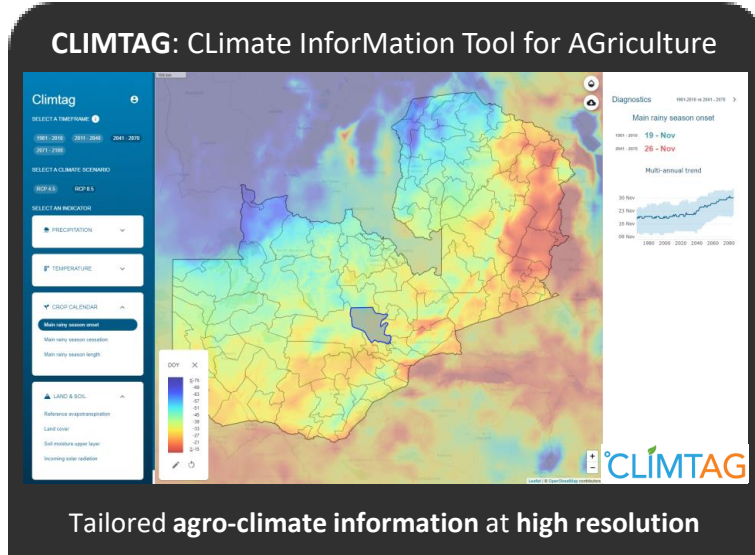
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ClimSA Thematic Expert



Climate-resilient agricultural sector

- Design adaptation strategies
- Substantiate proposals for International Climate Funding
- Evaluate adaptation measures



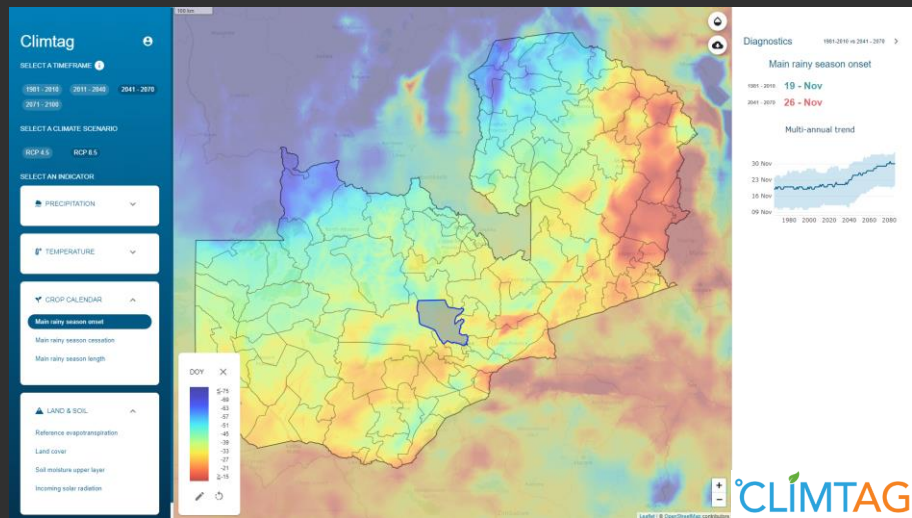
Raw quality-assured climate data (Copernicus)

+



Co-creation with stakeholders

CLIMTAG: Climate InforMation Tool for AGriculture



Tailored agro-climate information at high resolution

- **Web-based** climate service:
 - agro-climate indicators, e.g. onset rainy season
 - ... occurrence drought spell
 - ...
 - **past and future** time horizons
 - 1981-2010 → **2040-'70-'100**

- **High resolution:**
 - **1km x 1km** maps
 - aggregated at **district** level
- Operating at country level for **22 countries**

- Select country
- Algeria
 - Botswana
 - Burundi
 - Cameroon
 - Cape Verde
 - Chad
 - Congo
 - Democratic Republic of the Congo
 - Egypt
 - Ethiopia
 - Guinea
 - India
 - Kenya
 - Malawi
 - Morocco
 - Mozambique
 - Namibia
 - Niger
 - Nigeria
 - Senegal
 - Togo
 - Uganda
 - Zambia

- Targeted **stakeholders:** National Met Services, policy makers, researchers, extension workers



SELECT A TIMEFRAME

- 1981 - 2010
- 2011 - 2040
- 2041 - 2070**
- 2071 - 2100

SELECT A CLIMATE SCENARIO

- RCP 4.5
- RCP 8.5**

SELECT AN INDICATOR

Precipitation

Temperature

Crop calendar

Main rainy season onset

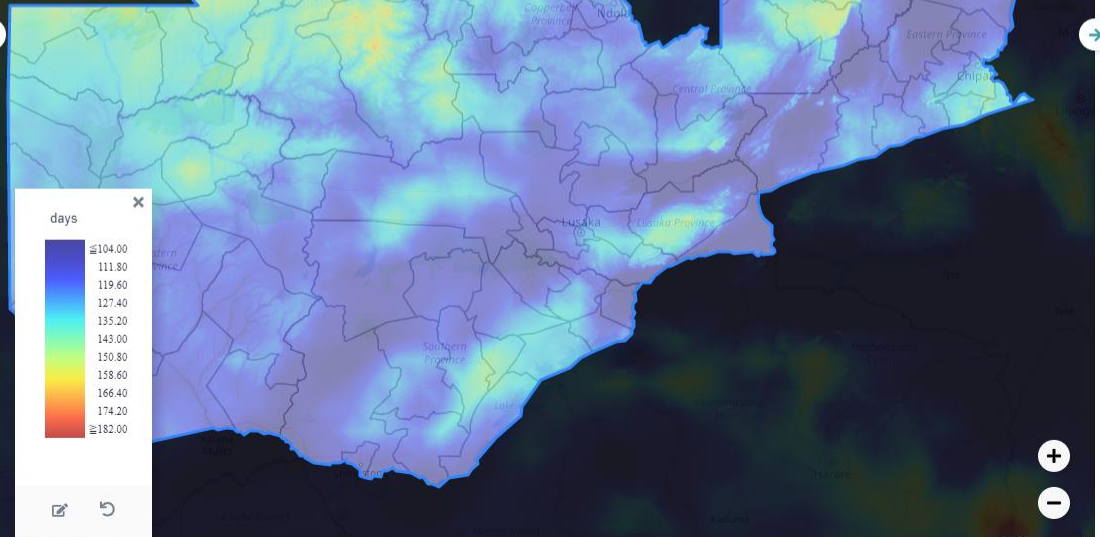
Main rainy season cessation

Main rainy season length

Land & soil

Extra functionalities:

- Download maps.tiff
- Point location info
- Uncertainty visualization
- New indicators



Diagnostics

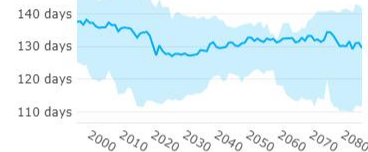
1981-2010 vs 2041 - 2070

Main rainy season length

1981 - 2010 **138 days**

2041 - 2070 **132 days**

Multi-annual trend





SELECT A TIMEFRAME

- 1981 - 2010
- 2011 - 2040
- 2041 - 2070
- 2071 - 2100**

SELECT A CLIMATE SCENARIO

- RCP 4.5
- RCP 8.5**

SELECT AN INDICATOR

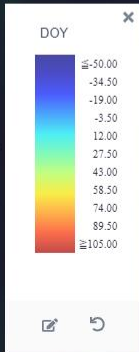
Precipitation

- Precipitation
- Dry days
- Onset of first drought spell in main rainy season**
- Maximum dry spell duration in main rainy season
- Mean dry spell duration in main rainy season
- Precipitation intensity

Temperature

Crop calendar

Land & soil

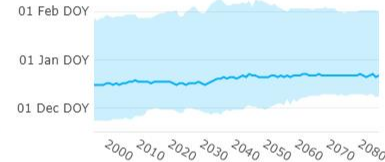


Onset of first drought spell in main rainy season

Onset date

- 1981 - 2010 **15 - Dec**
- 2071 - 2100 **22 - Dec**

Multi-annual trend



100 km






SELECT A TIMEFRAME 

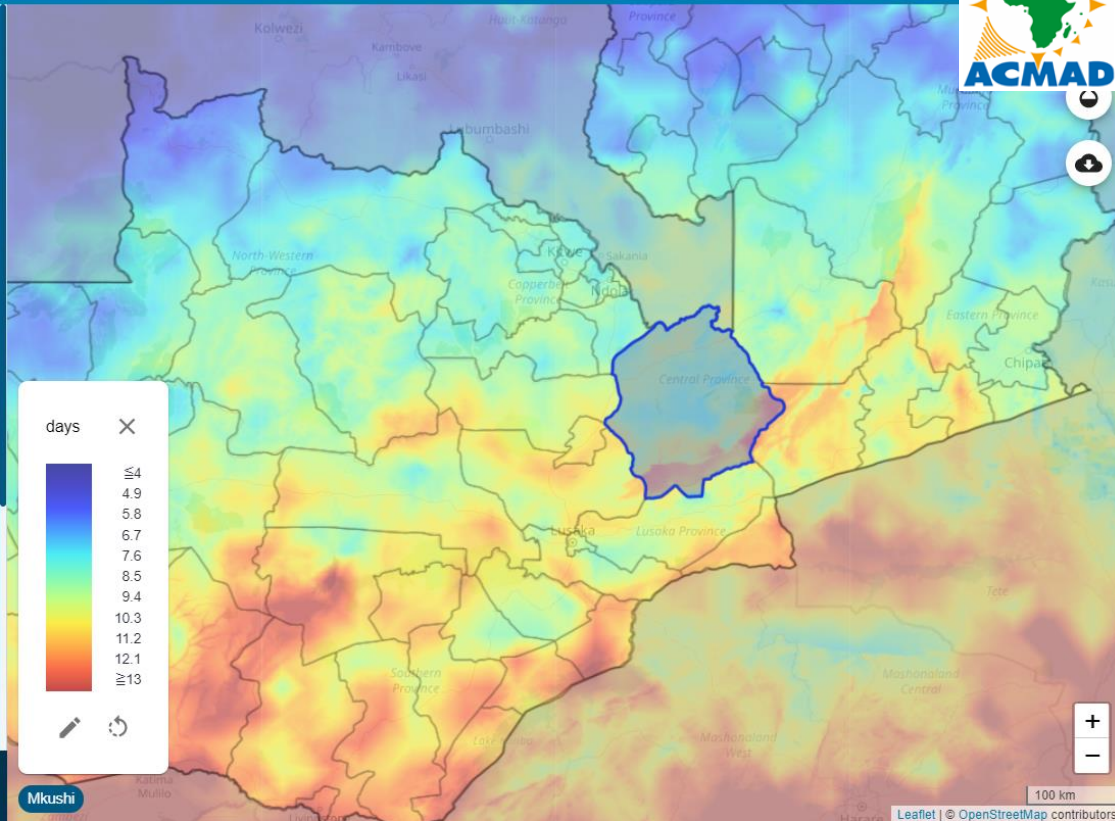
- 1981 - 2010
- 2011 - 2040
- 2041 - 2070
- 2071 - 2100

SELECT A CLIMATE SCENARIO

- RCP 2.6
- RCP 4.5
- RCP 8.5

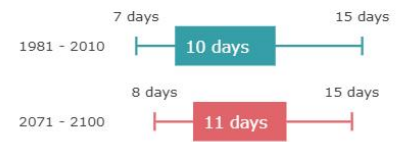
SELECT AN INDICATOR

- PRECIPITATION** 
- Precipitation
- Dry days
- Onset of first drought spell in main rainy season
- Maximum dry spell duration in main rainy season**
- Mean dry spell duration in main rainy season
- Precipitation intensity

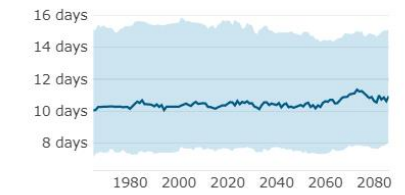


Diagnostics 1981-2010 vs 2071 - 2100 

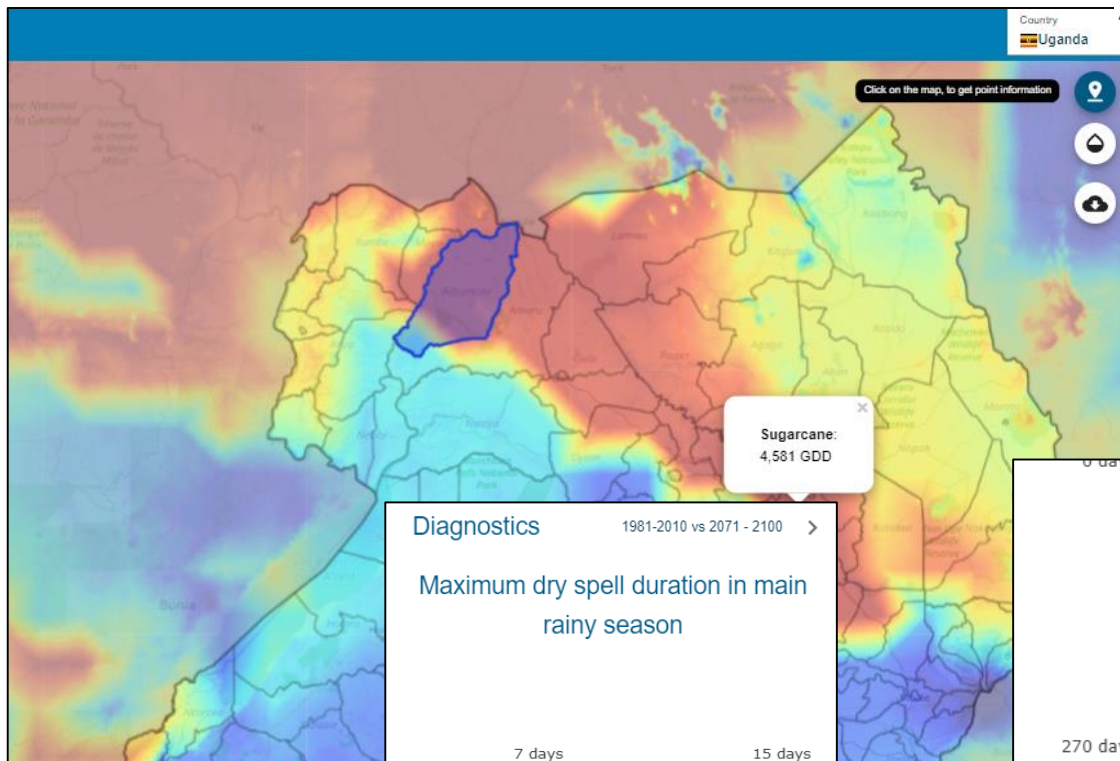
Maximum dry spell duration in main rainy season



Multi-annual trend

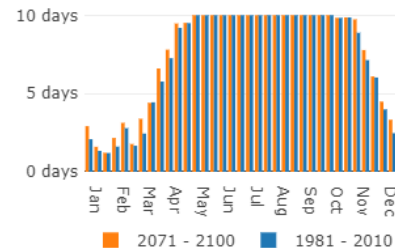


 CONTACT US

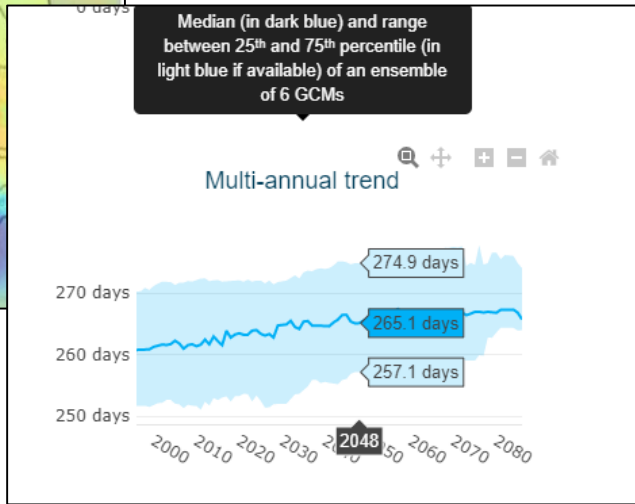


Dry days

Intra-seasonal climatology



Median (in dark blue) and range between 25th and 75th percentile (in light blue if available) of an ensemble of 6 GCMs



REGISTER FOR ACCESS



CLIMTAG

Climtag  

Email address
demo@vito.be

Password

LOGIN

[Forgot password](#) [Register](#)
[Disclaimer](#)

<https://climtag.marvin.vito.be/>

TRAINING OBJECTIVE

The objective of the workshop is to bring together climate service providers and agriculture sector users to:

- Discuss climate information currently available and its use by the local agriculture sector;
- Identify, explore and discuss agriculture relevant climate data in the Copernicus Climate Change data store;
- Review actionable climate indices for the agriculture sector and their generation with the CLIMTAG tool;
- Run practical sessions on indices generation and use for local adaptation planning and action with local NGOs and Meteorological Services as collaborating stakeholders for service provision and delivery;
- Share experiences on case studies;
- Present the Africa Drought Observatory System and its products prototype;
- Discuss way forward on upscaling phase of the CLIMTAG tool in Africa’;
- Collect the Expression of Interest Letters for the upscaling phase.

FUNDED PROJECT: KLIMPALA



klimpala

Climate Platform for Adaptation in the African Agricultural Sector

Empowered by



Flanders
State of the Art



23 countries



Seasonal forecasts



Training



Strategic advice
adaptation



Access
Climate Funds



Support
adaptation

Find out more: <https://klimpala.vito.be/en>

KLIMPALA OVERVIEW

The **KLIMPALA** project has the ambition to develop a **Climate Platform for Adaptation in the Agricultural sector in Africa (KLIMPALA)** to empower stakeholders in the African agro-sector against climate change with tools, capacity building and coaching.



klimpala

Climate Platform for Adaptation in the African Agricultural Sector



entrepreneurs
for entrepreneurs
Sustainable cooperation with the South



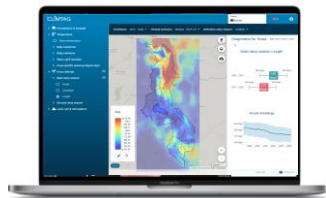
Flanders
State of the Art

Supporting the resilience of the agricultural sector in Africa



Workshops
Climate Platform for Adaptation in the African Agricultural Sector

CLIMTAG



- Agro-climate indicators
- Seasonal forecasts
- Crop suitability indicators



Support for adaptation, policy, climate risks and climate financing



towards resilient and food



entrepreneurs for entrepreneurs
Sustainable cooperation with the South



Flanders
State of the Art



Climate Platform for Adaptation in the African Agricultural Sector

- Dec 2020 – Nov 2023
- supported by the Flemish International Climate Funds.
- VITO, ACMAD, KPMG, KENTER, OVO



Supporting the resilience of the agricultural sector in Africa

Climate Platform for Adaptation in the African Agricultural Sector

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AN OVERVIEW OF THE INTERNATIONAL CLIMATE FINANCE OF THE GOVERNMENT OF FLANDERS

← BACK

ERASE FILTERS

ETS

Sélectionner tout

ETS

Non ETS

Source of finance

Sélectionner tout

ODA

OOF

Type

Sélectionner tout

Adaptation

Cross-Cutting

Mitigation

Policy domain

Tout

Main Sector

Tout

G-STIC-CAP

G-STIC-CAP

Other climate finance

recipient category

Tout

Type	Country	Title	Beneficiary	Logo	Jaar	Disbursement	
Adaptation	Southern Africa (subregional)	Flexible Multi-Partner Mechanism for Accelerated Impact	Food and Agricultural Organization of the United Nations (FAO)		2020	€ 2 000 000,00	↗
Adaptation	Onbepaald	Flemish Contribution to Adaptation Fund	Adaptation Fund		2020	€ 1 700 000,00	↗
Adaptation	Africa (multiple countries)	Climate Information Platform for Adaptation in the Agricultural Sector in Africa (KLIMPALA)	VITO		2020	€ 1 660 000,00	↗
Mitigation	South Africa	Test bed for electrical storage in South Africa in the framework of the World Bank Energy Storage Partnership	VITO		2020	€ 1 470 299,00	↗
Adaptation	Malawi, Mozambique, Zambia	Strengthening integrated adaptation planning and implementation in Southern Africa smallholder agricultural systems to support food security	Food and Agricultural Organization of the United Nations (FAO)		2017	€ 1 426 539,00	↗
Adaptation	Botswana, Malawi, Zambia	Boosting Eco-Inclusive Enterprises for Climate Adaptation In Southern Africa	Adelphi Research		2020	€ 1 400 000,00	↗

OBJECTIVE

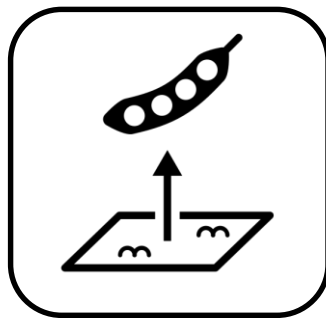
- Deploy the agricultural climate information tool CLIMTAG in 23 countries to support:
 - The development of a generic adaptation strategy for African agriculture.
 - Concrete adaptation actions, involving African entrepreneurs in demo cases in Senegal, Uganda and Malawi.



PROSPECTS



Seasonal forecasts



Crop yield module



More countries

THANK YOU