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Climate Services for Food Security in West Africa and the Sahel

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Introduction

- The CILLS/AGRHYMET Food security Early
- The ClimSA program
- Climate services provided to rural comm Burkina Faso
- Some feedbacks from famers



Introduction

The CILLS/AGRHYMET Food security Early Wa

Seasonal forecasting of the main characteri lacksquarerainy seasons

Operational monitoring of the rainy seasons

Food security vulnerability assessment









Seasonal forecasting of the main characteristic seasons









Seasonal forecasting of the main characteristic seasons





Seasonal forecasting of the main characteristic seasons

Maximum discharges in major river basins



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Operational monitoring of the rainy sea

Monthly cumulative rainfall



500 km Tamsat



Operational monitoring of the rainy sea





Operational monitoring of the rainy s

Crop Water requirement satisfaction





SantogAntao

Simulation: SARRA-O



Operational monitoring of the rainy sea

Crop yield forecasting





Operational monitoring of the rainy s

Vegetation indices and potential biomass availability for l







Capacité d'accueil en nombre d'Unité Bétail Tropical (U zone pastorale

0 - 0.1

Operational monitoring of the rainy s

Monitoring desert Locust breading areas





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Operational monitoring of the rain

Daily and 10 day weather forecasting



Operational monitoring of the rain

10 Day Flood forecasting



The ClimSA Program

Overall objective

 Contribute to foster sustainable development by strengthening the climate services value chain at the regional, national and sub-national levels

Specific Objectives

- Improve interaction between the users, researchers and providers of climate information;
- Enhance provision of climate services at regional and national levels (CSIS);
- Improve access to climate information;
- Enhance capacity to generate and use climate information and products
- Strengthen climate-informed decision-making processes at regional and national levels.









The ClimSA Program

Intervention zone and budget

- 17 Countries (15 ECOWAS + Mauritania and Chad)
- 1 Pilot country : Burkina Faso

- Initial grant signed in December 2019 between AGRHYMET and EUD Niger
- Total Budget : 8 millions euros for 4 years
- 1 year no cost extension request submitted









Forecast of onset dates of the rainy season at the

regional level issued during the PRESASS RCOF.





 Since 2021, partnership with the Burkina Faso
National Meteorological
Agency (ANAM) to
produce and communicate
agrometeorological
information to farmers in
3 pilot rural communities
in Burkina Faso



- Namissiguima : in the Sahelian zone
- Ténado : in the Sudano-Sahelian zone
- Niangoloko : in the Sudanian zone















Communication workshops with farmers and extension workers









Climate services for rural communities in Burkina Faso Communication workshops with farmers and extension workers Time series of cumulative seasonal rainfall at a given location: Average : 500-700 mm



- Provision of rain gauges and smartphones to farmers of these rural communities to collect data and also receive meteorological information and advices via:
 - Community radios
 - SMS and WhatsApp messages in French and local languages
- Field visits during the season to discuss with farmers on the usefulness of the provided information

















Sample agrometeorological bulletins sent every day to the community radios, extension workers and contact farmers

- Past 24 hour observed temperatures and rainfall
- Upcoming Temperature and rainfall forecast
- Agrometeorological advices



Conseils agrométéorologiques :

Au regard des conditions météorologiques passées et de la prévision annoncée, les activités agricoles qui peuvent être conseillées aux producteurs de Namissiguima et des villages environnants sont :

- mettre l'accent sur les labours des superficies réservées aux cultures de maïs, arachides et niébé;
- s'activer pour terminer les semis de maïs en privilégiant les variétés précoces (KPB ou KPJ) et les légumineuses avant le 10 août ;
- pour les cultures de sorgho ou de maïs en montaison et ou en tallage, l'apport d'urée doit être suspendu ;







Farmers' feedback

- The information helps plan activities for the season and also day to day farming operations
- Always wait for meteorological information before undertaking activities like
 - Sowing
 - Fertilizer or pesticide use
 - Hiring field workers
 - This helps save time, energy and money
- Discussion groups on meteorological information during social gatherings







Farmers' feedback



ClimSA



Mr SOMA and Mr BAYILI farmers at Niangoloko and Tenado



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Thank you for your attention