

# EUMETSAT USER FORUM FOR AFRICA – EUFA-17; TECHNICAL ON-LINE SESSIONS.

10<sup>th</sup> - 11<sup>th</sup> June 2026



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## ACMAD's RCC CURRENT USE AND PLANS FOR THE CLIMSA STATION

Preparation by ACMAD team-  
Composition and Presentation by-ABANI AHMED Ali



# **EUMETSAT USER FORUM FOR AFRICA – EUFA-17; TECHNICAL ON-LINE SESSIONS.**

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## **OVERVIEW**

- 1. ACMAD CLIMSA STATION : KEY CLIMATE SERVICES DEVELOPMENT TOOL**
- 2. PLANS FOR ACMAD RCC's CLIMSA STATION**
- 3. CONCLUSION/R**



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## 1. Key service development tool:

### **Goal 3 of the strategic P. Better access to data, Research and innovation on African weather and climate**

- 3.1 Enable better access to data
- 3.2 Enhance research and innovation



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## 3: Access to climate data & info /ClimSA output

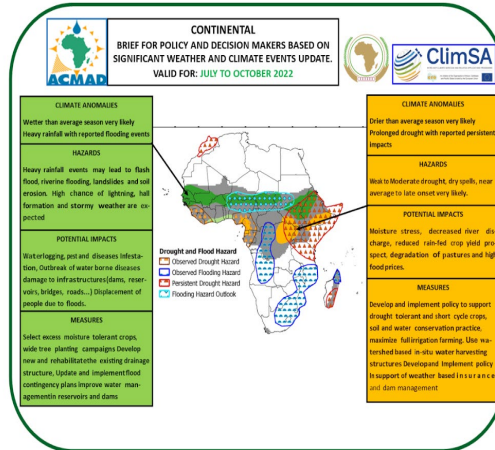
**Tools used** : GrADS, Bash Scripting, NCL, R, QGIS, CPT, CFT, Climate station ([Jupiter Note book](#)) 10-days Climate Diagnostic bulletin and related Technical Notes <https://rcc.acmad.org/dacadebulletin.php> The speed and quality of climate information are crucial today. CAMAD promotes ClimateStation technology as a strategic lever for improving the visibility and effectiveness of National Meteorological and Hydrological Services (NMS).



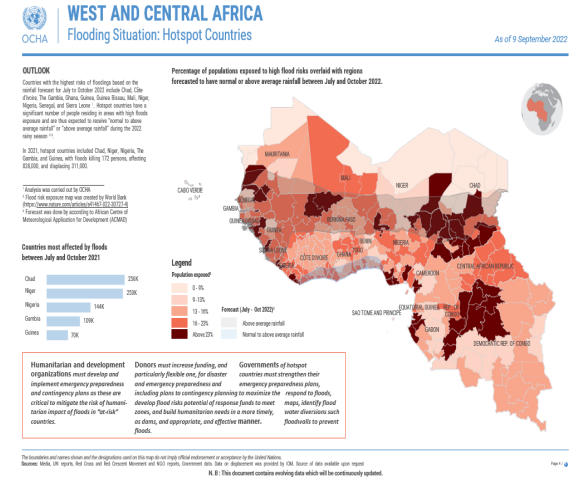


# ACMAD INTERACTION WITH HUMANITARIAN FOR EMERGENCY & PREPAREDNESS

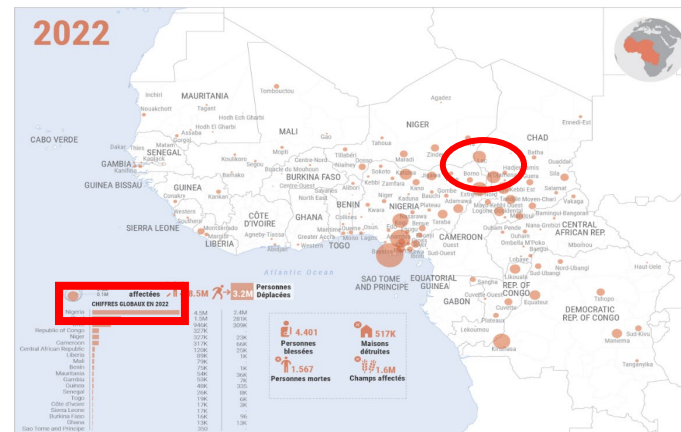
## IMPACT BASED FORECAST



## PREDICTION % OF POPULATION TO BE EXPOSED TO FLOOD



## REPORTED NUMBER OF POPULATION AFFECTED BY FLOOD



This Service was co-developed with OCHA with the percentage of population expected to be affected by flood provided at sub-national scale for preparation/emergency planning and budgeting well ahead of flood events and seasons.

Feedback have been collected during EPR (Emergency Preparedness and Response) meeting.



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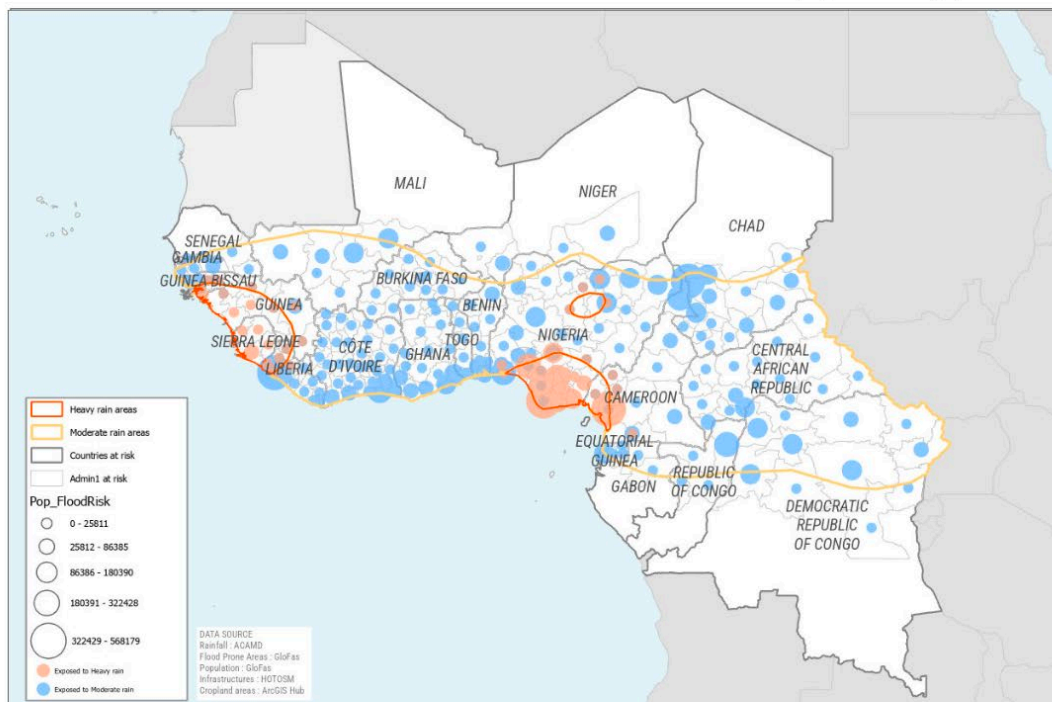
## West and Central Africa Flooding Outlook 01-05 July 2025

**KEY FIGURES:** ■ Heavy rain ■ Moderate rain



**People exposed by country and intensity.**

Country	Heavy rain	Moderate rain	Total
Benin		525,747	525,747
Burkina Faso		27,619	27,619
Cameroon	539,439	956,940	1,496,379
Central African Republic		166,548	166,548
Chad		1,287,281	1,287,281
Côte d'Ivoire		421,404	421,404
Democratic Republic of Congo		758,895	758,895
Equatorial Guinea		46,618	46,618
Gabon		6,009	6,009
Gambia		32,310	32,310
Ghana		572,515	572,515
Guinea	45,579	36,174	81,753
Guinea Bissau	1,227	2,721	3,948
Liberia	46,669	778,635	825,304
Mali		402,107	402,107
Niger		56,649	56,649
Nigeria	6,422,068	2,054,946	8,477,014
Republic of Congo		684,428	684,428
Senegal		44,971	44,971
Sierra Leone	164,889	1	164,890
Togo		43,379	43,379
<b>Total</b>	<b>7,219,871</b>	<b>8,905,897</b>	<b>16,125,768</b>



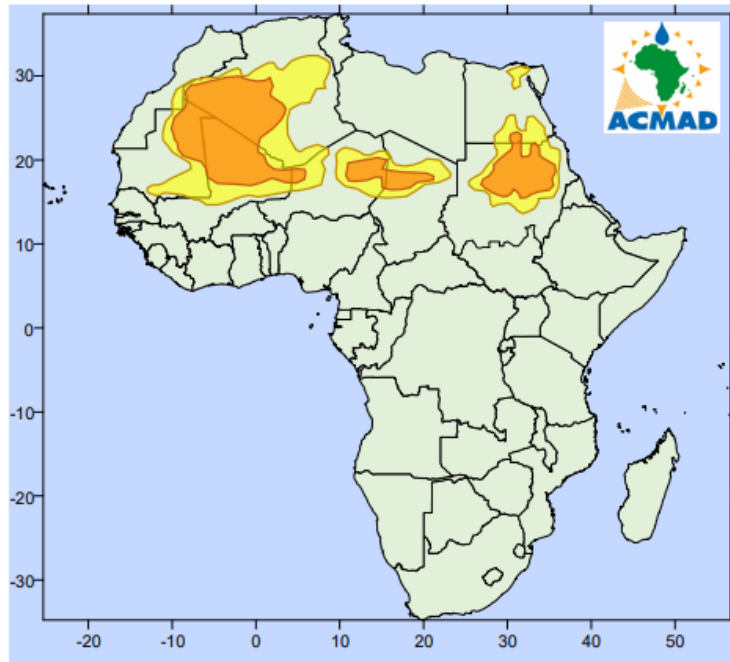
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.  
 Creation date: 20 June 2025 Sources: ACMAD, OCHA Feedback: ocharowca@un.org www.unocha.org www.reliefweb.int

## VIGILANCE MAP AND POLICY BRIEF FOR HEAT WAVE

Valid From July 19 to 23, 2024

Issued on July 18, 2024

**HIGHLIGHT:** Moderate heat wave is expected in Mauritania, Mali, Algeria, Niger, Chad, Sudan, and Egypt.



	Phenomenon	Hazard	Potentials Impacts	DRM Measures / Advices
	In next 5 days apparent temperature >40°C to 44°C are expected for two days	Heat wave Conditions persists on 2days	Moderate temperature heat is tolerable for general public but moderate health concern for vulnerable people(people chronic diseases, infants and elderly)	Civil Protection Services to monitor closely the heat wave situation with NHMSs.
	apparent temperature 40°C to 44°C are expected for more than 2 days	Moderate heat wave conditions are likely to persist for 3days ore more with varied severity	High temperature Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work High health concern for vulnerable people	Civil Protection services to take adaptive and preventive measures to the heat wave situation with NHMSs.
	Apparent temperatures >45°C are expected for more than 2 days	Severe heat wave is very likely to persist for more than 2 days,	Very high likelihood of developing heat illness and heat stroke in all ages	Civil Protection services to take adaptive and preventive measures to the strong heat wave situation with NHMSs.

**Disclaimer:**

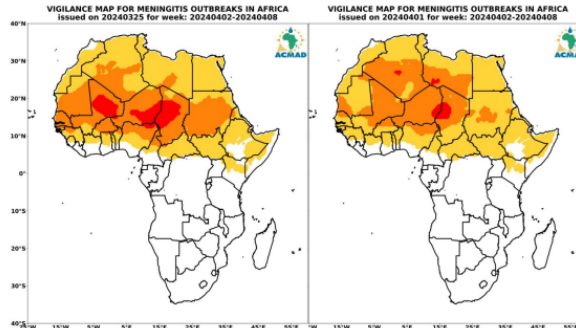
The presentation of country boundaries on the map does not imply any opinion whatsoever on the part of ACMAD concerning the legal status of any country, territory or area, or concerning the delimitation of frontiers or boundaries.



# ACMAD INTERACTION WITH WHO on Meningitis Outbreak Outlook/Advisory for WHO-AFRO/Meningitis Surveillance And Control Program

## Climate Service for Health/Meningitis - Verification

### Meningitis Outbreaks Outlook/Advisory for 02-08 Apr 2024



Phenomenon	Hazard	Potentials impacts	Advisory / Measures
<ul style="list-style-type: none"> <li>Dust concentration below 150µg/m<sup>3</sup></li> <li>Relative humidity above 40%</li> <li>Temperature below 27°C</li> </ul>	Emergence of Meningitis cases not likely	Potential pressure on the health system	Routine surveillance systems at regional and national levels
<ul style="list-style-type: none"> <li>Dust concentration between 150 to 400µg/m<sup>3</sup></li> <li>Relative humidity between 20 &amp; 40%</li> <li>Temperature above 27°C</li> </ul>	Emergence of Meningitis cases very likely	Loss of life, pressure on the health system	Activation of surveillance systems at regional and national levels
<ul style="list-style-type: none"> <li>Dust Concentration at least 400µg/m<sup>3</sup> and above</li> <li>Relative humidity less than 20%</li> <li>Temperature above 30°C</li> </ul>	Emergence of Meningitis cases very likely and epidemic status possible	Loss of life, increased pressure on the health system	Strengthen and increase meningitis surveillance systems at both regional and national levels

ACMAD vigilance maps of the period from 02<sup>nd</sup> to 08<sup>th</sup> April 2024, call for possible meningitis epidemics status over Mali, Niger, Nigeria, and Chad. Potential cases were expected in Senegal, Mauritania, Guinea, Ghana, Benin, Togo Burkina Faso, Mali, Libya, Nigeria, Cameroon, Algeria, and Sudan.

As reported by WHO/AFRO, on week 14 of 2024 (ie 01<sup>st</sup>-07<sup>th</sup> Apr): One district (1) crossed the epidemic threshold in Niger and nine (9) districts crossed the alert threshold in six (6) countries: Benin (2), Central African Republic (1), Chad (1), Mali (2), Niger (2) and Senegal (1).

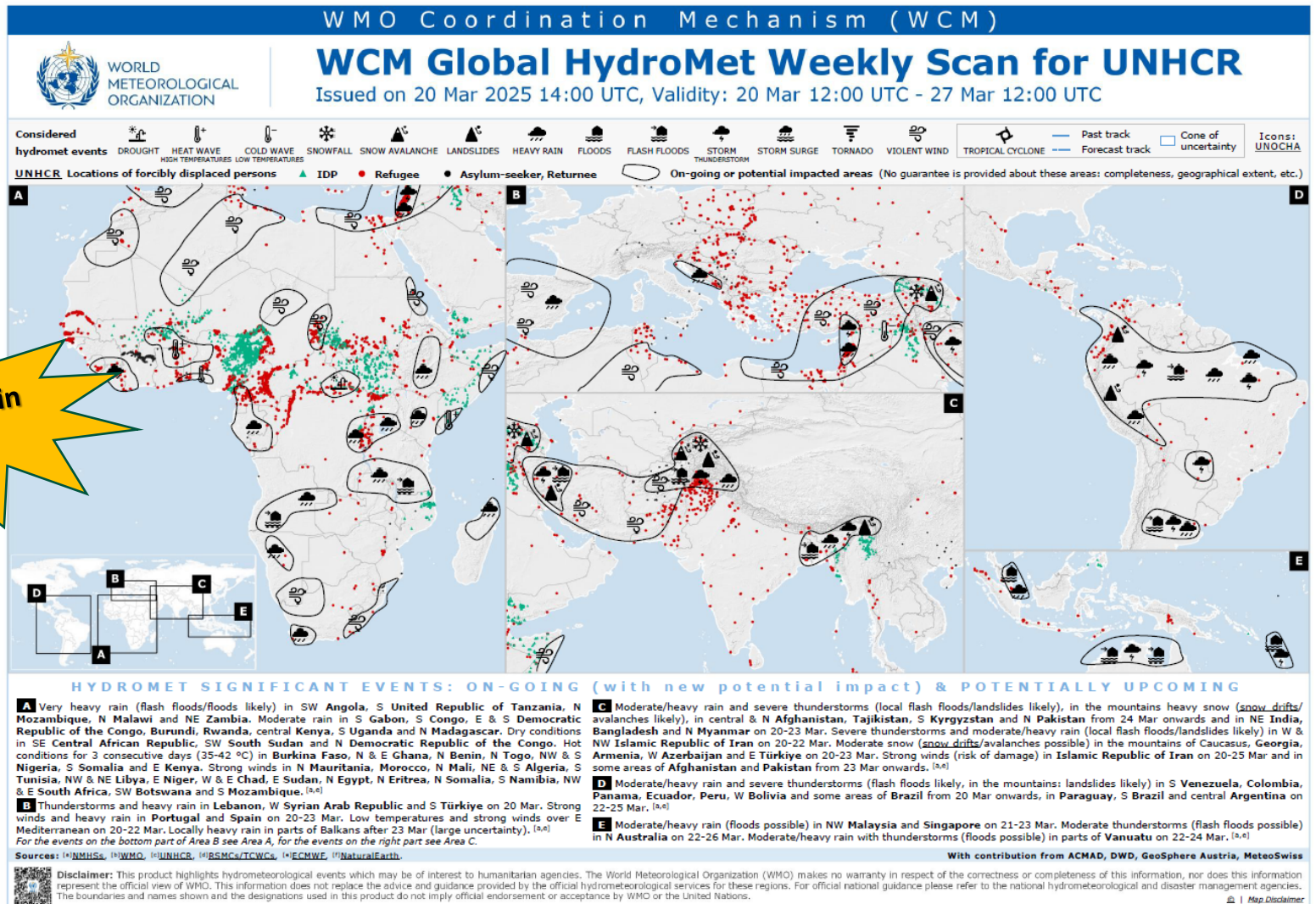
### Meningitis case distribution by country for 1<sup>st</sup> – 07<sup>th</sup> April 2024 (source: WHO AFRO Meningitis Surveillance And Control Programme)



- Proactive collaboration with WHO/AFRO and ClimHealth Network has proven very useful in the uptake of climate information for public health preparedness
- Regular feedback of information help improve the quality of Climate Service
- Increase need for projections and historical analyses of the relationship between climate and health.



# ACMAD CONTRIBUION TO WCM (WMO coordination mechanism)



ACMAD  
Contribute in  
Panel A  
(Africa)



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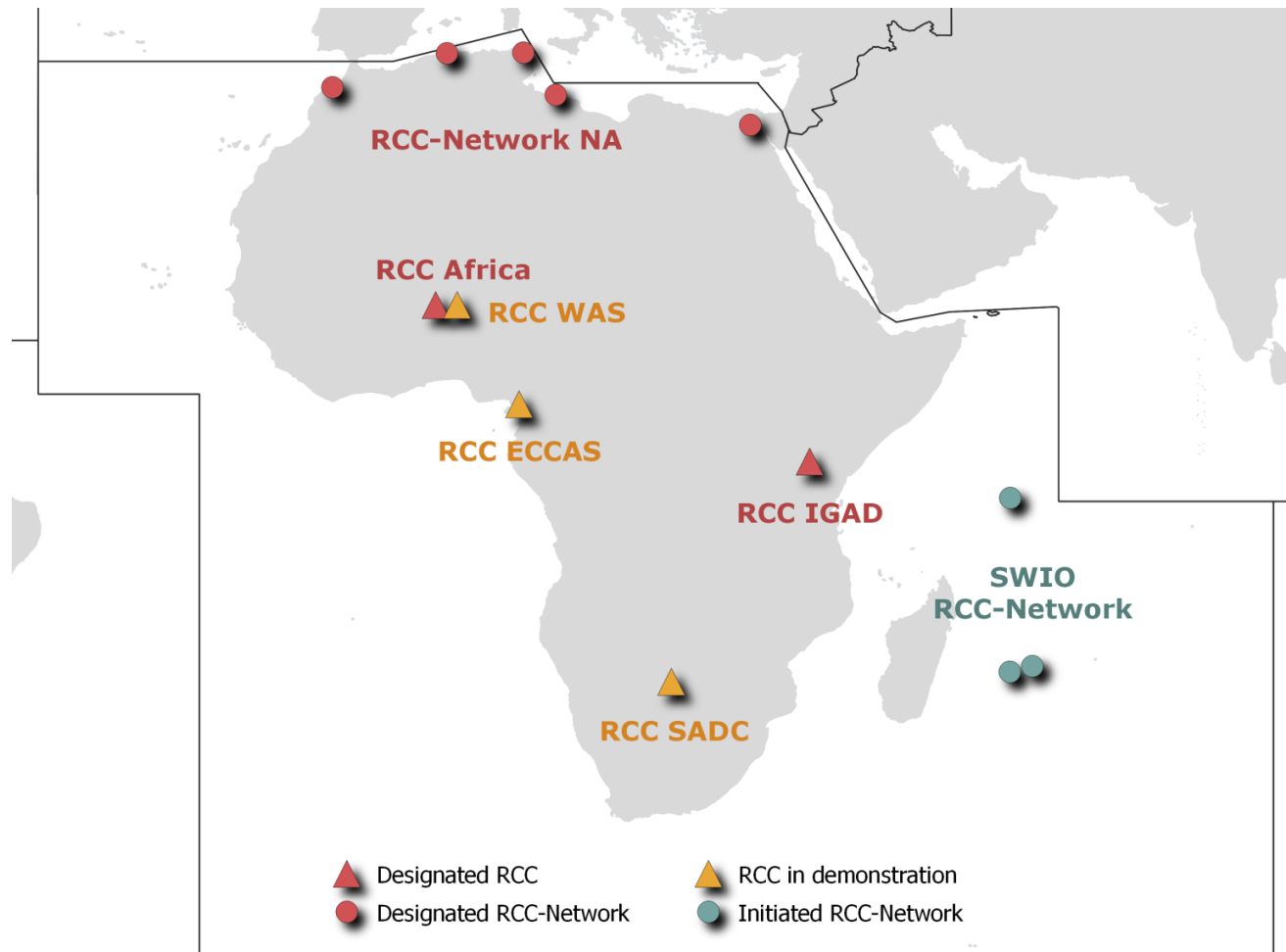
## 2. ACMAD RCCs CLIMSA STATION PLANS:



# P1 INNOVATION

- **Artificial Intelligence (AI) weather model over africa** : AI offer a good opportunity for africa for the climate modelling exercise with its potential of young mathematician to develop a continental framework for operational AI model with trainings, validation, multi-model approaches, user engagement etc
- **Heat wave early warning system (HWEWS) over africa** : many african societies are already vulnerable to heat and the last IPCC report puts North and Sahelian africa as a hot-spot ACMAD will lead a collaborative effort with its partners (WHO, IFRC, etc) to operationalize an HWEWS at continental level using weather and climate forecasts
- **Impact base Forecasting (IBF)** : on one hand with increasing climate related hazards, which will increase more in the future per IPCC last report, and on the other hand Africa has a very complicated and varying landscape (vegetation, soil conditions, water bodies, etc) determine the level of actual impacts. A fully coupled model of atmospheric and land surface will help to better assess the impacts of weather events thus offer a better tool to guide decision makers.

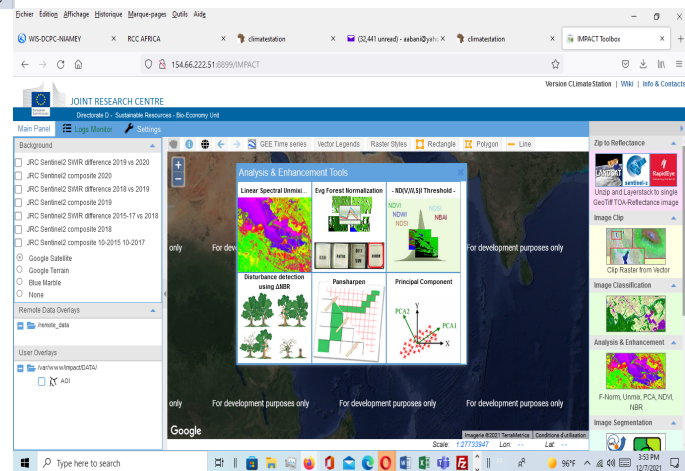
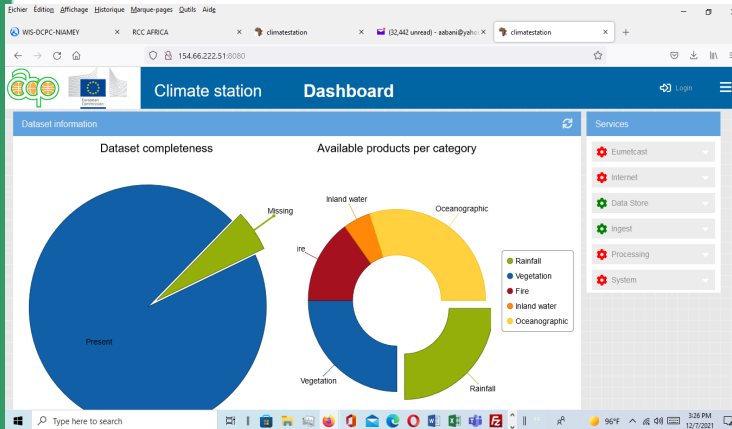
## P2 : REGIONAL CLIMATE CENTERS (RCCs) IN AFRICA



**only operational and continental climate center**



# P3 USE of ClimSA Station for the development of tailored products for key sectors : Agriculture, Fire monitoring etc,





# P4 :Resource Mobilization/Sustainability

## “useful/useable” product meeting the “demand” :

- AUC : technical arms (EU, ACP, etc) for the ClimSA station supports
- Service provider for safety (Humanitarian organizations) : WFP (LTA), OCHA (continental product), UNDRR, Save the children (heat wave), etc
- WMO : global product

with ClimSA station as key tool for production of services, training and support,

## Trainings (credibility and relevancy) :

On the job training (paid through project, Comoros, etc)

Online training (free + paid) : AI, IBF,

## Proposal (Project and Project) :

With new development on ClimSA station for optimal contribution of CS to data portal

## MoU with RCCs :

To be together on calls for proposal/funding in/on Africa Network of RCC with CLIMSA station programme as a key hub,



### 3. CONCLUSION/R

- **ACMAD will continue deep use of the ClimSA station and support RCCS and NMHS in Africa**
- **CLIMSA STATION must evolve in long term programme for Africa in terms of robust tools for the access data and the production of high quality services in Africa,**
- **ACMAD could encourage in-house training on CS for all vesting trainees,**
- **ClimSA station will contribute to data portal activities using AI based tools,**



**THANKS FOR YOUR  
ATTENTION**

<https://acmad.org>