

Visite de l'ACMAD par S.E l'Ambassadeur de la Republique Algerienne Democratique et Populaire

Ongoing Climate Services Activities

Préparé par:

ACMAD Team

Présenté par :

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Director General

Niamey-Niger 09 Janvier 2024

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VISION FOR 2030

An African continent where all nations are benefiting from a world class operational continental meteorological centre to become resilient to extremes events and empowered to support their sustainable development with better meteorological services



ACMAD'S MISSION

Created through **Resolution 540** of the UNECA Conference of Ministers in April 1985 following the droughts of the 70s and 80s, ACMAD is established in Niamey-Niger since October 1992 to act as:

Continental Weather and Climate Watch Centre for Africa with monitoring, forecasting and early warning for droughts, floods, tropical cyclones and other extreme events as functions..

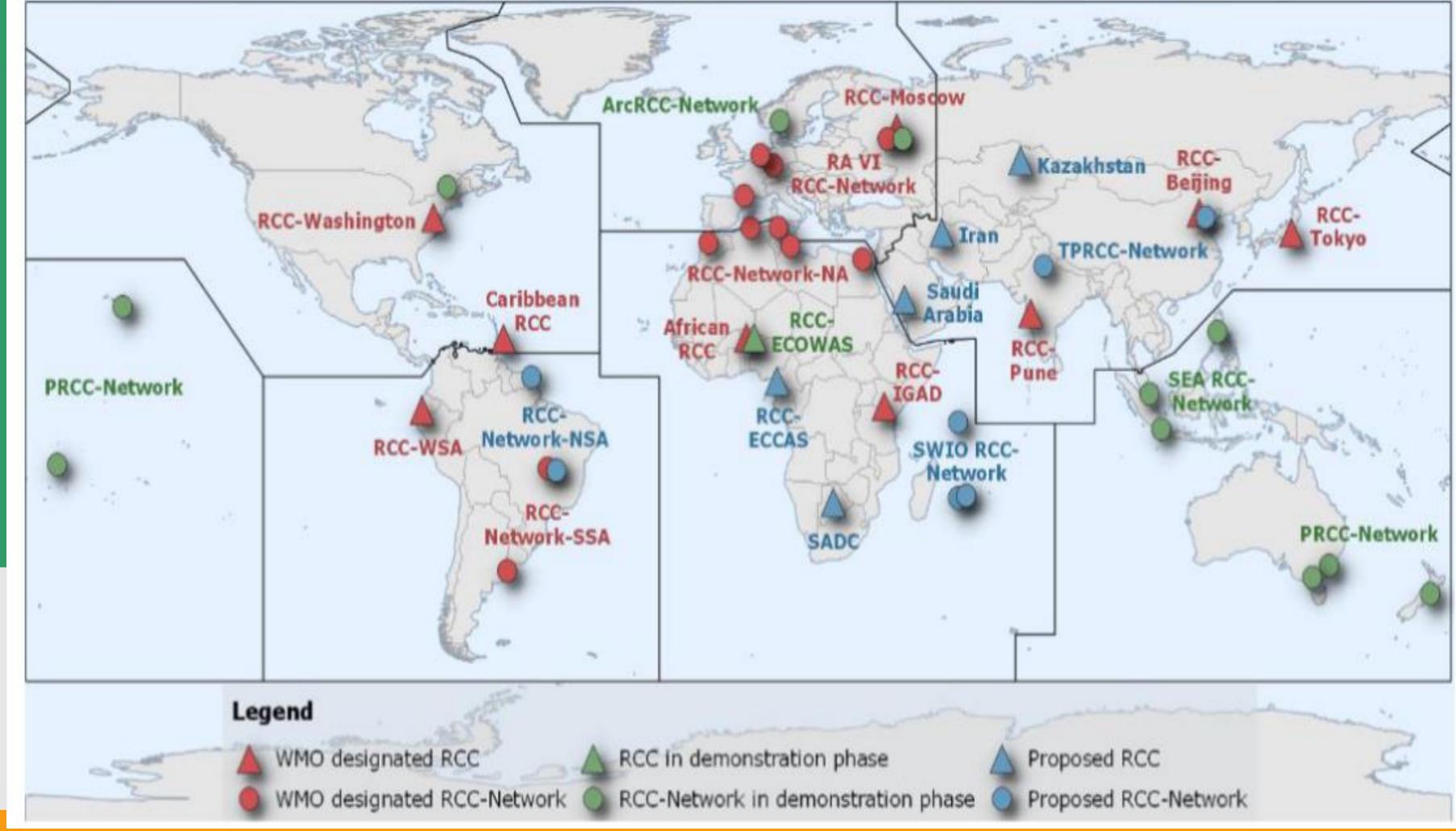
The continental **Climate Watch Centre** was achieved with ACMAD designated by the World Meteorlogical Organization (WMO) Congress after a successful demonstration phase as a Regional Climate Centre for all Africa in **May 2015**.

The Continental Weather Watch Centre was achieved with the Continental MultiHazards Advisory Centre inaugurated at ACMAD providing contributions to disaster situation reports and continental watches to the situation room operations at the African Union Commission Headquarters in Addis Ababa.

Institution of excellence for the Applications of meteorology for sustainable development with capacity building, methods, tools and products development, contribution to global weather and climate programs, promotion of database, research and innovation as functions



COORDINATION DES CENTRES REGIONAUX CLIMATIQUES Depuis 2015



Established
Regional
Climate
Centres
(WMO, 2022)



CENTRE CONTINENTAL D'AVERTISSEMENT POUR LES PHENOMENES DANGEREUX OPERATIONNEL DEPUIS OCTOBRE 2022.



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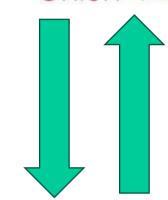
AMHEWAS Disaster Situation Room Addis Ababa





ACMAD generates regular continental hazard and disaster situation reports, continental climate trends, and impact-based advisories.

African Union



AUC trains Member States and issues advisories through twice weekly "Continental Watch" bulletins and monthly disaster outlooks. Subregional situation rooms feed data to the continental level.

Disaster Operation Centre Abuja



Disaster Situation Room Douala



Humanitarian and Emergency Operations Centre Nacala

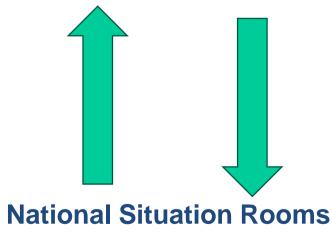


Disaster Operations Centre Nairobi



ICPAC

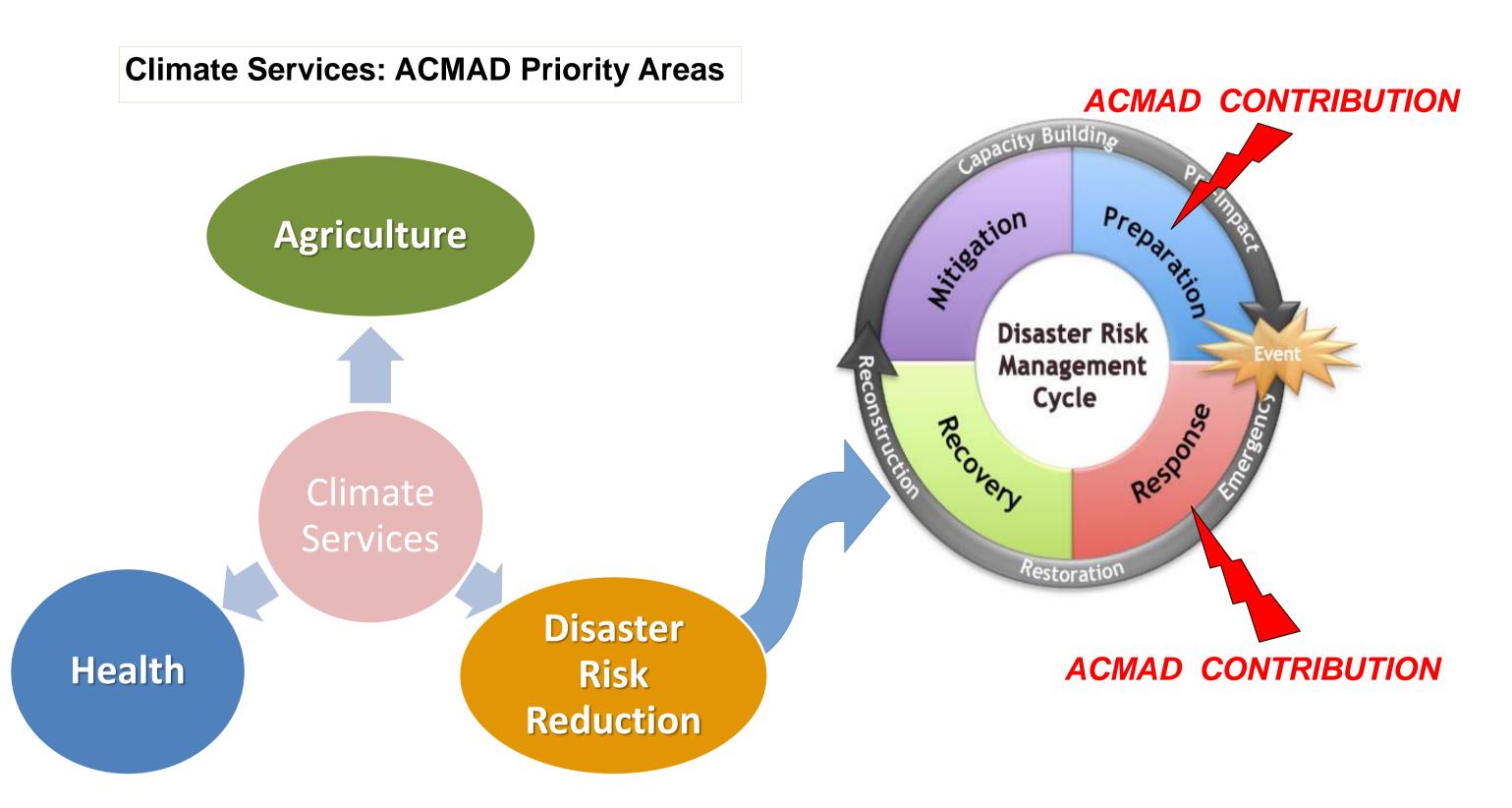
National situation rooms issue national early warnings, coordinate early and anticipatory actions, and feed data to the continental system through the subregional situation rooms



Subregional situation rooms provide hazard information and bulletins as well as capacity support for early warning and anticipatory action to the national situation rooms



Provision of climate information

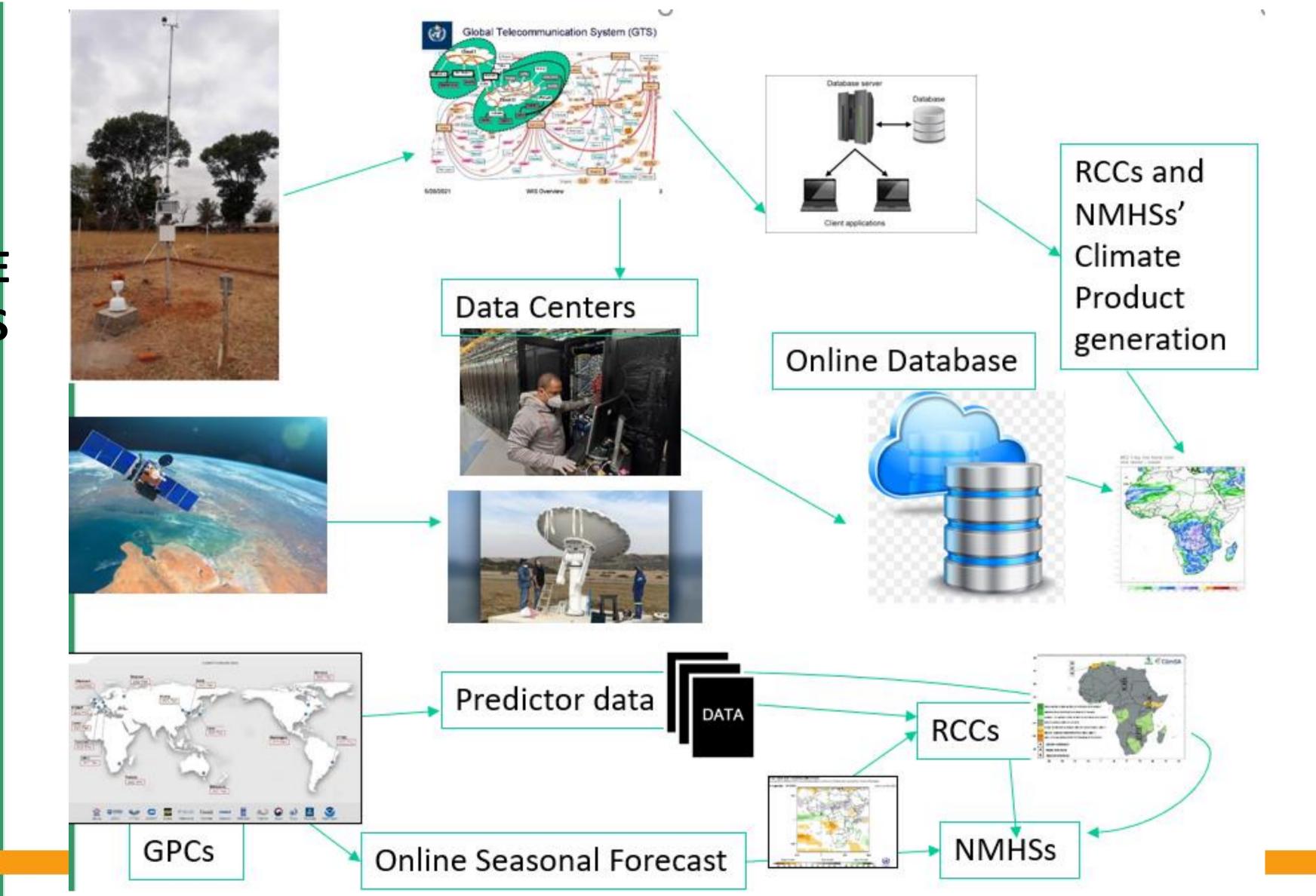


ACMAD provide Climate services tailored with significant weather and climate phenomena, related hazards, potentials impacts, responses measures

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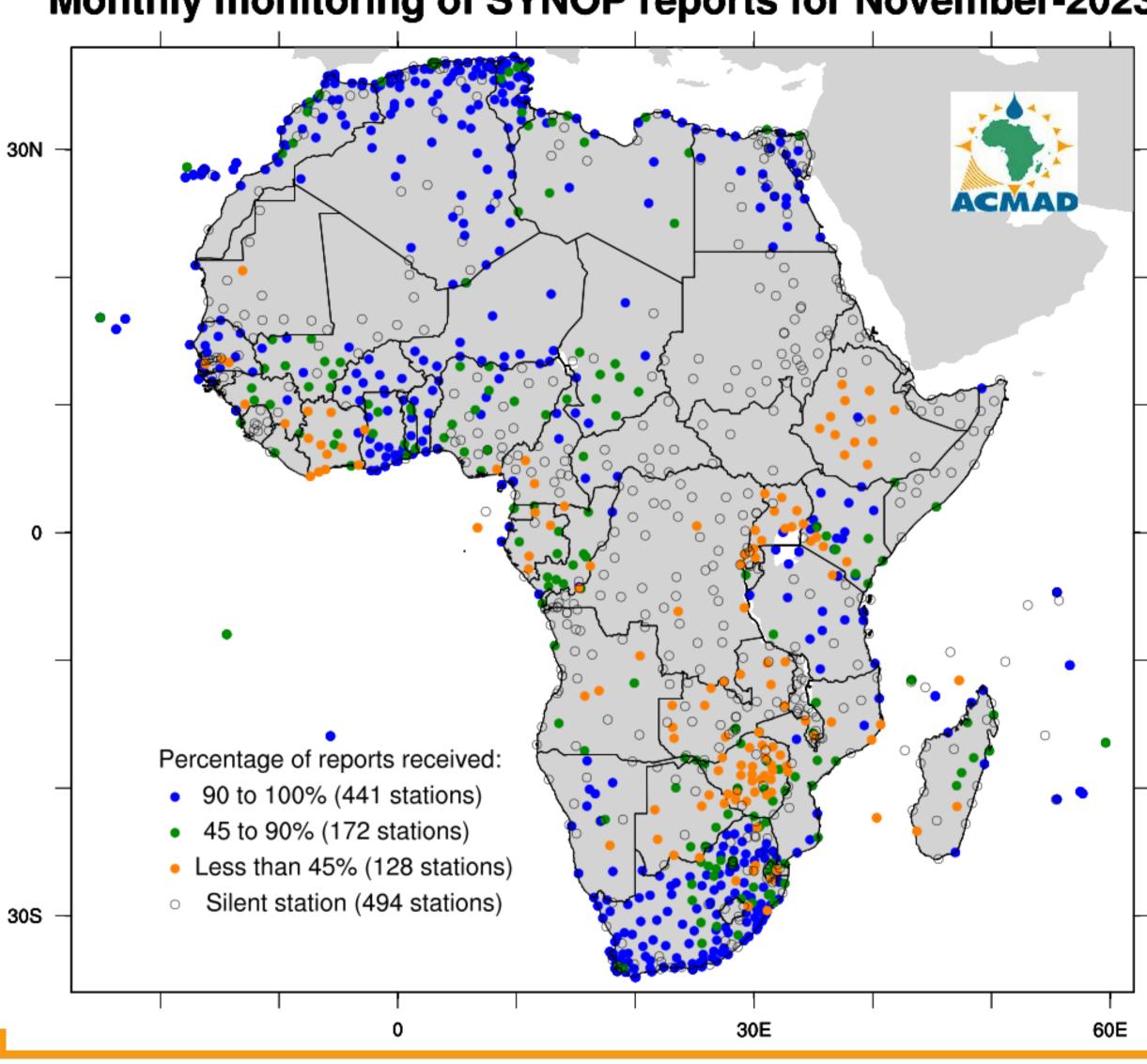
SOURCE DE DONNEES





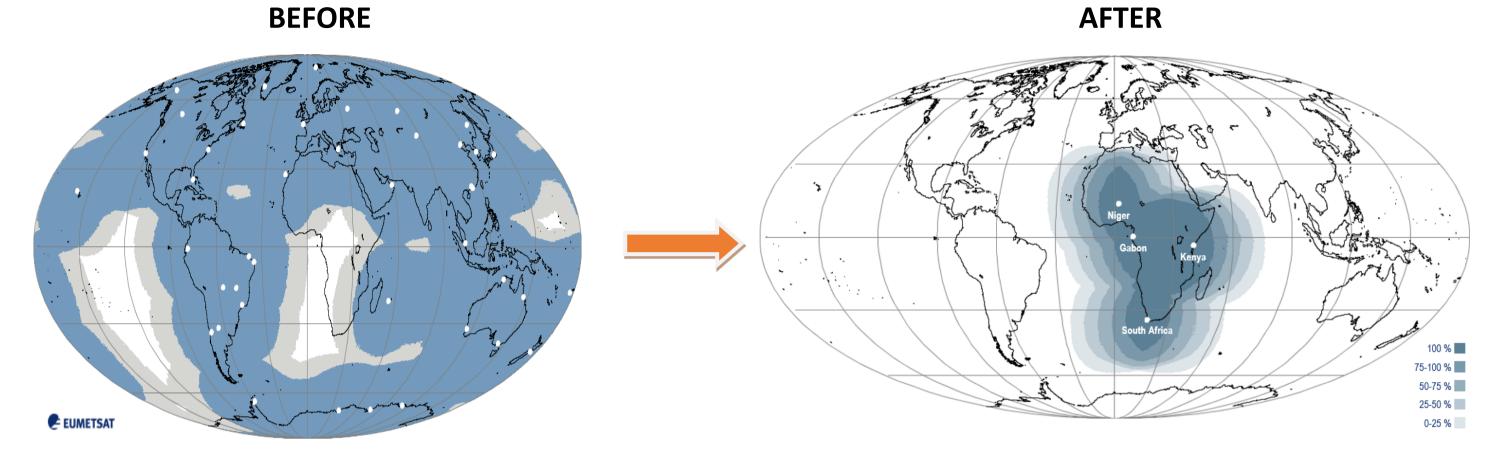
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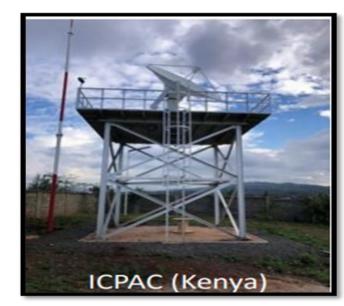






SOURCE DE DONNEES











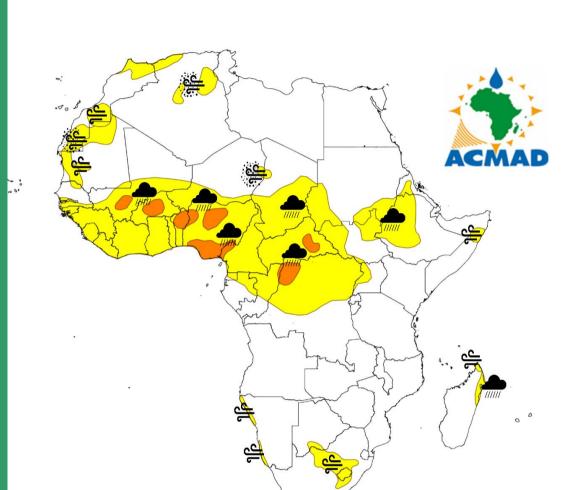


PRODUITS & SERVICES

Seasonal 1-10days Monthly Monitoring and plan review Action **Planning** Short range weather forecasting (1-5 days) **Support to Countries** Sahel medium range forecast 7-10 days (during the monsoon season) Medium range weather forecasting (7-10 days); Sahel medium range forecast 7-10 days (during the monsoon season) Seasonal rainfall predictions At Continental Level: - Provide consensus forecast for Regional Climate Outlook Forums Climate Monitoring Bulletins Ten Days Climate Bulletin Monthly Bulletin Specific Bulletins Climate and Health Weekly Rainfall forecast



PRODUITS POUR ACTION ANTICIPATOIRE Cas de l'Algerie



MULTI-HAZARD OUTLOOK

Validity: 2023-09-02

issued on 2023-08-31

////// Rain	ال Wind	Dust	Meningitis
Very heavy >100mm	Very strong >80kmh ⁻¹	Very heavy >1000μg m ⁻³	Very likely
Heavy	Strong	Heavy	Likely
50-100mm	>65kmh ⁻¹	>600µg m ⁻³	
Moderate	Moderate	Moderate	Less likely
10 - 49mm	>50kmh ⁻¹	>400µg m ⁻³	
Light	Light	Light	
1 - 10mm	<50kmh ⁻¹	<200µg m³	



VIGILANCE MAP AND POLICY BRIEF FOR HEAVY RAINFALL AND STRONG WINDS

NITA-ACP CLIMATE SERVICES AND RELIABLE APPLICATIONS PROGRAMM

AND PROVIDED OF THE Opposition of African, Customer

and Product Stone Land only to the Composite Using

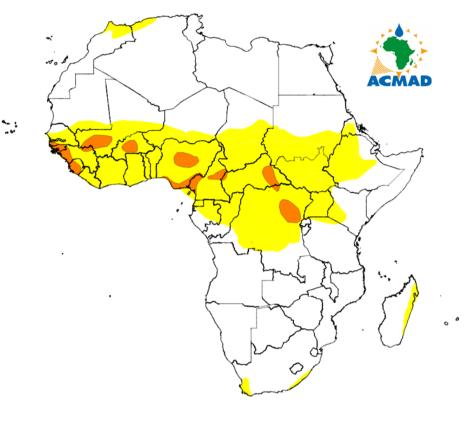
AND PROVIDED OF THE OPPOSITE USING

AND PROVIDED OF THE OPPOSITE USING

THE OPPOSITE Valid From September 1 to 5, 2023

Issued on August 31, 2023

HIGHLIGHT: Heavy rainfall is expected in Senegal, Guinea Bissau, Guinea, Sierra Leone, Mali, Burkina Faso, Nigeria, Cameroon, C.A.R and D.R.C



	Phenomen on	Hazard	Potentials Impacts	DRM Measures / Advices
	In next 5 days accumulate d rainfall (50- 100mm) is likely,	Moderate rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning likely	Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges,)	DRM authorities to keep informed about the development of the meteorological situation and raise awareness, taking action is more likely, the situation needs to be monitored closely with NHMSs
	In next 5 days accumulate d rainfall (100 – 150mm) is very likely,	Heavy rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning, strong winds,	Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges,)	Update Flood contingency plans, Improve water management in reservoirs and dams, DRM authorities be ready to take adequate actions, DRM to be continuously in touch with NHMSs to be informed of the detailed expected meteorological conditions.
۵	In next 5 days accumulate d rainfall (>150mm) is very likely,	Extreme heavy precipitation, flash flood, riverine flooding, landslides, soil erosion and lightning, strong winds, severe thunderstorms	Loss of lives, Injuries, Displacements of people due to floods, outbreak of water borne diseases, damage of infrastructures (roads, bridges,)	Civil Protection service and DRM authorities to activate contingency plan for disaster preparedness and emergency response (awareness, assistance to victims, search & rescue operations), and be in close touch with NHMS for further accuracy at the national level.

<u>Disclaimer:</u> 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.



Algeria – Deadly Flash Floods Following Heavy Rain in North West

4 SEPTEMBER, 2023

Severe flash flooding swept through areas of northwester Algeria after heavy rainfall from 02 to 03 September 2023. Authorities report at least 8 people have lost their lives as a...

https://floodlist.com/africa

PRODUITS POUR ACTION ANTICIPATOIRE cas de Libya: Cyclone Daniel du 04 au 10 Septembre 2023

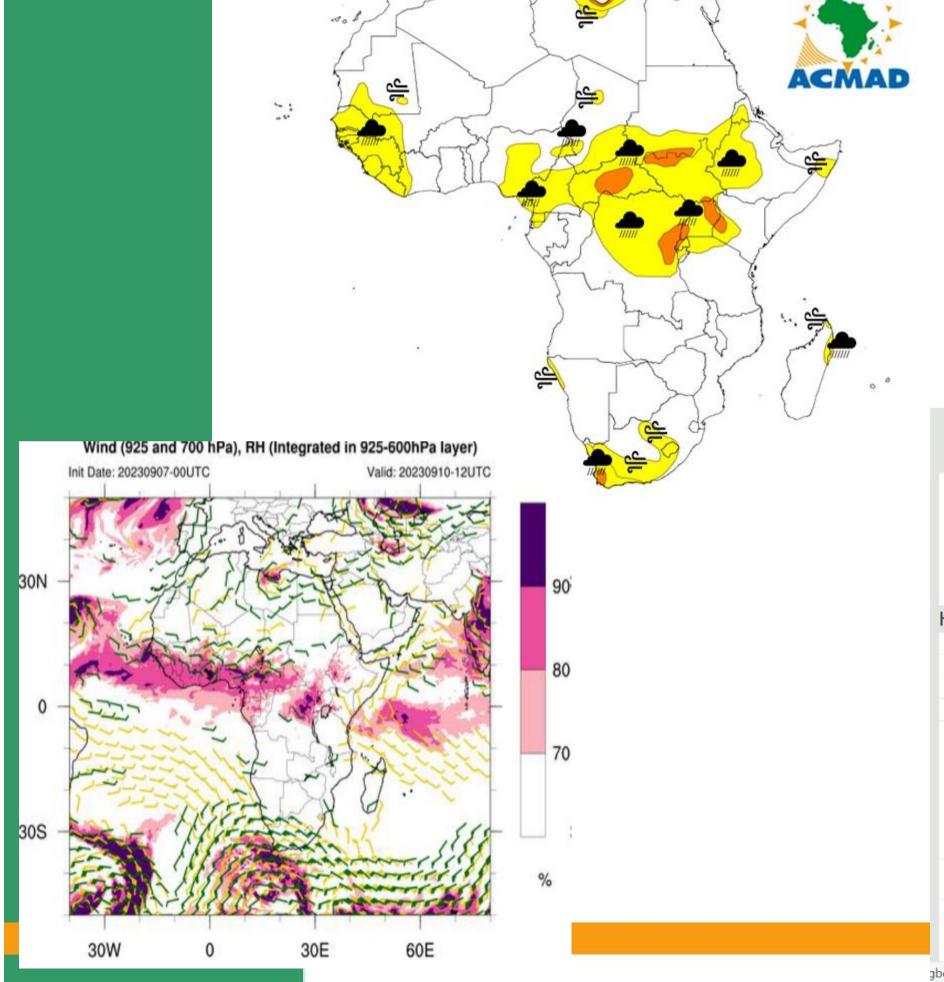
MULTI-HAZARD OUTLOOK

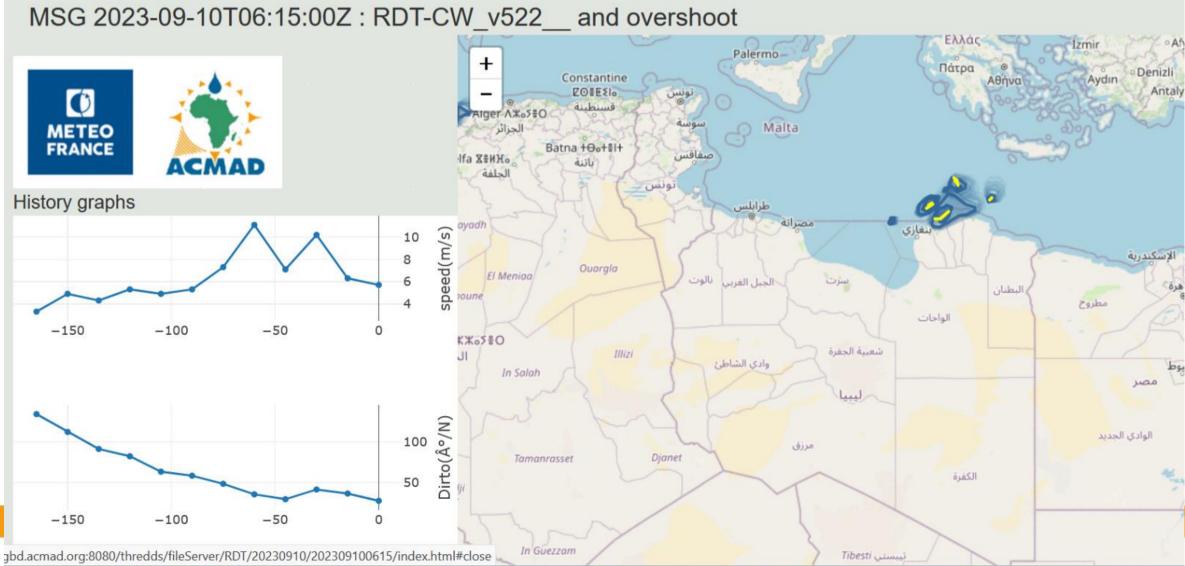
Validity: 2023-09-10

issued on 2023-09-07

////// Rain	<u>و</u> Wind	Dust	Meningitis
Very heavy	Very strong	Very heavy	Very likely
>100mm	>80kmh ⁻¹	>1000µg m ⁻³	
Heavy	Strong	Heavy	Likely
50-100mm	>65kmh ⁻¹	>600µg m ⁻³	
Moderate	Moderate	Moderate	Less likely
10 - 49mm	>50kmh ⁻¹	>400µg m ⁻³	
Light	Light	Light	
1 - 10mm	<50kmh ⁻¹	<200µg m³	

VIGILANCE FOR HEAVY PRECIPITATION
AND OTHER HAZARDS UP TO 5 DAYS
AHEAD SUPPORTING PREPARATION
AND EARLY RESPONSE TO DISASTERS

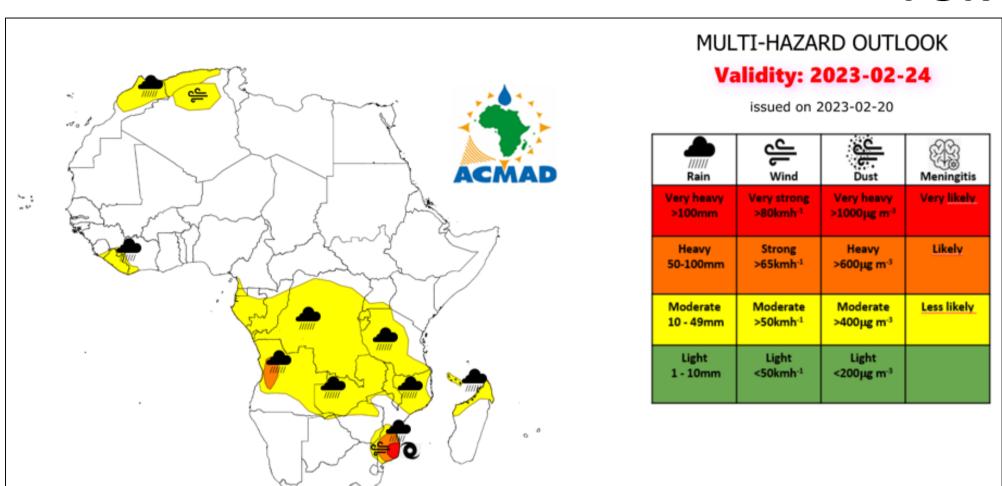


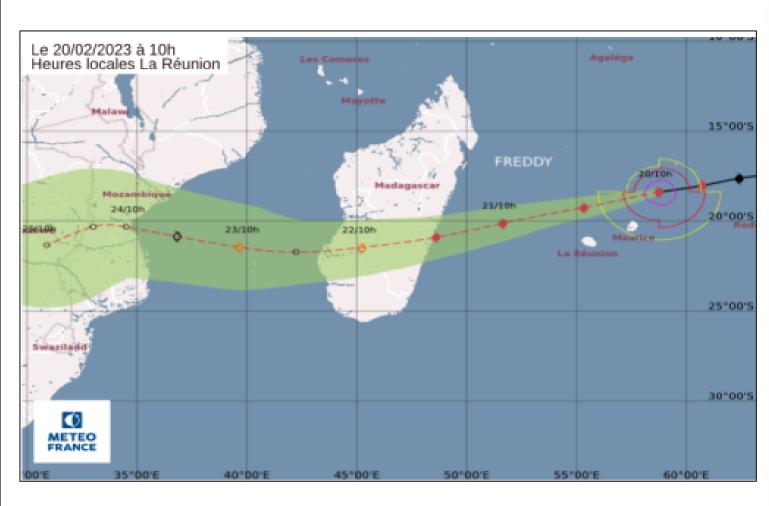


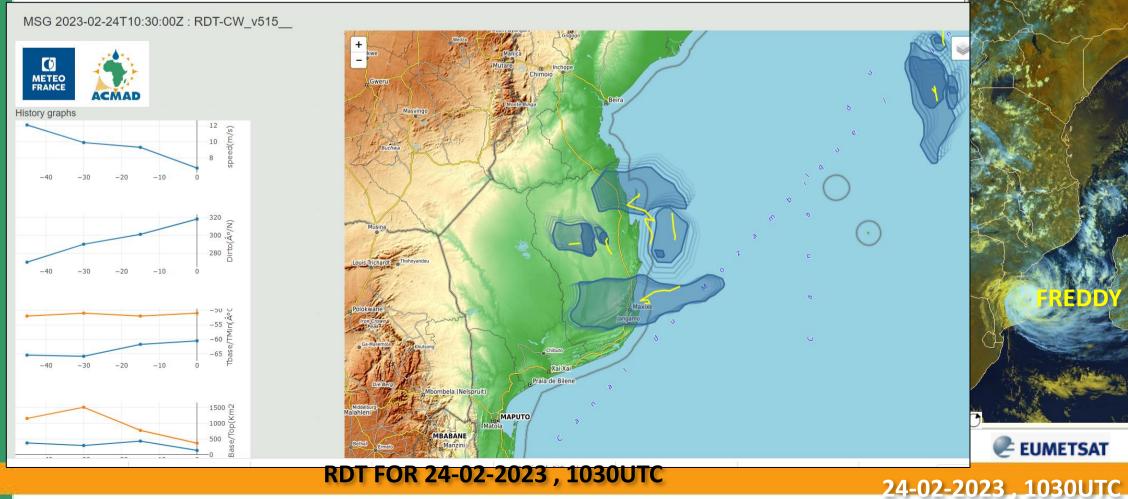
ACMAD

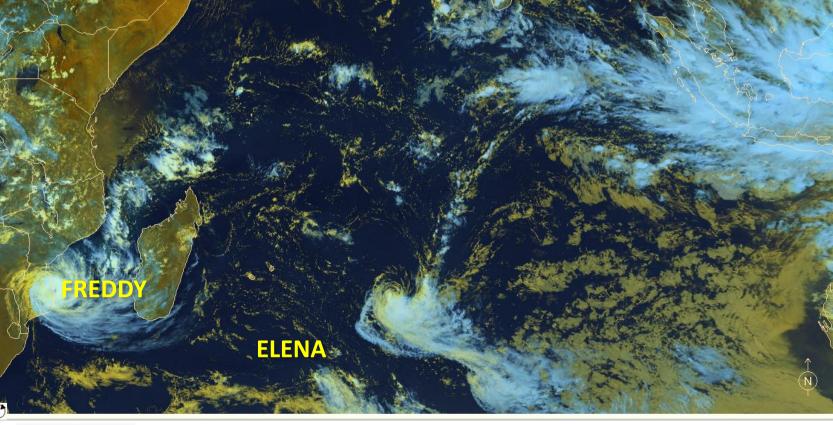
PRODUITS POUR ACTION ANTICIPATOIRE cas du Cyclone FREDDY

ACMAD ADVISORY VERIFICATION FOR D+4 FROM 20 FEBRUARY 2023





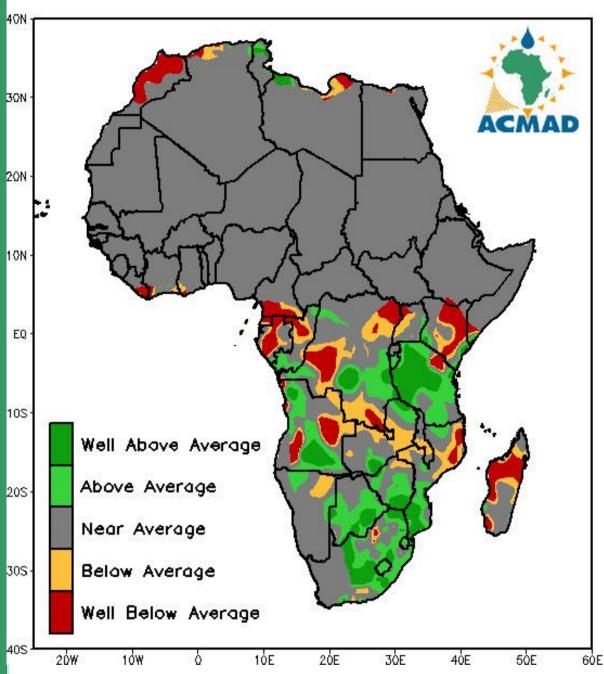






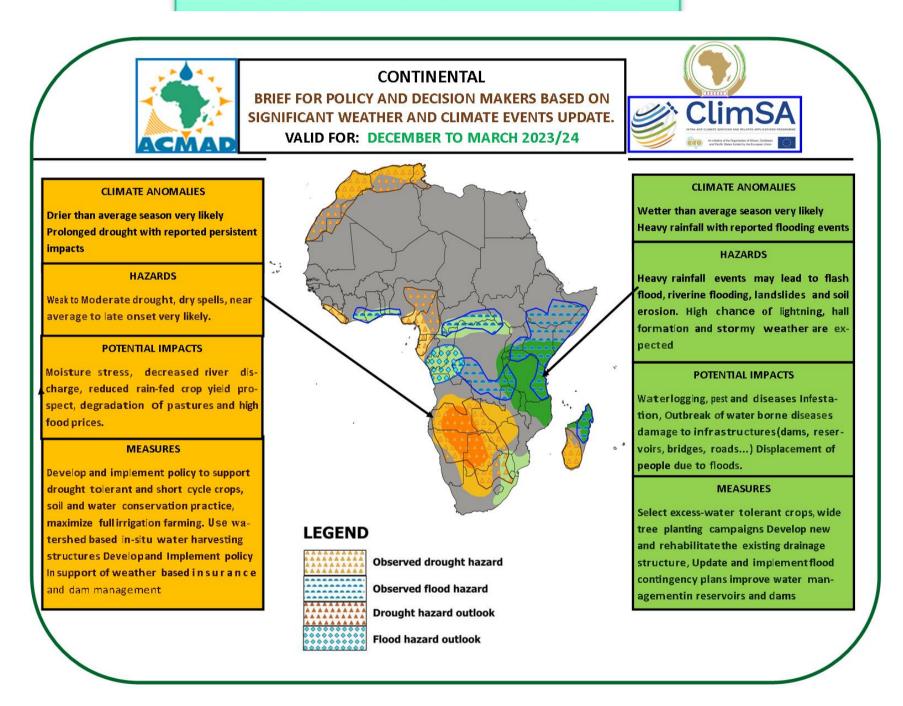
PRODUITS POUR LE SUIVI CLIMATIQUE

CPC-Uni 31-Day Precipitation in Percent of Average (%)
Period: 01Dec2023 to 31Dec2023



Disponible: Chaque Mois

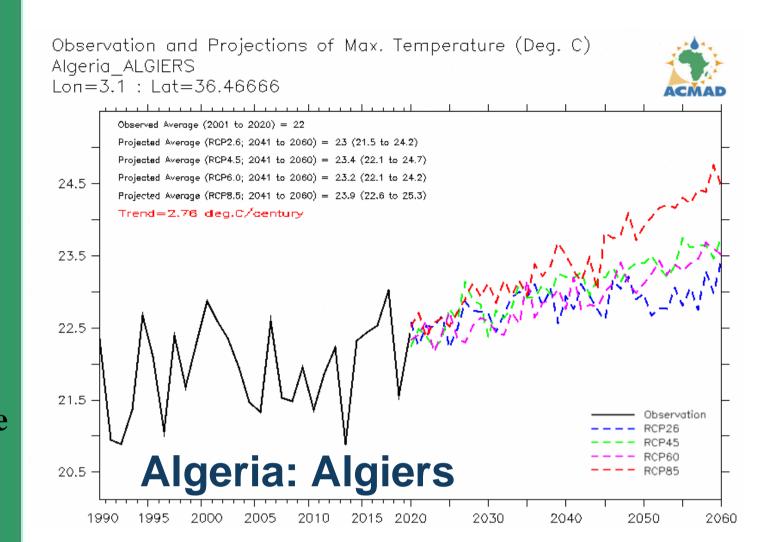
PRODUITS POUR LA PRISE DE DECISION

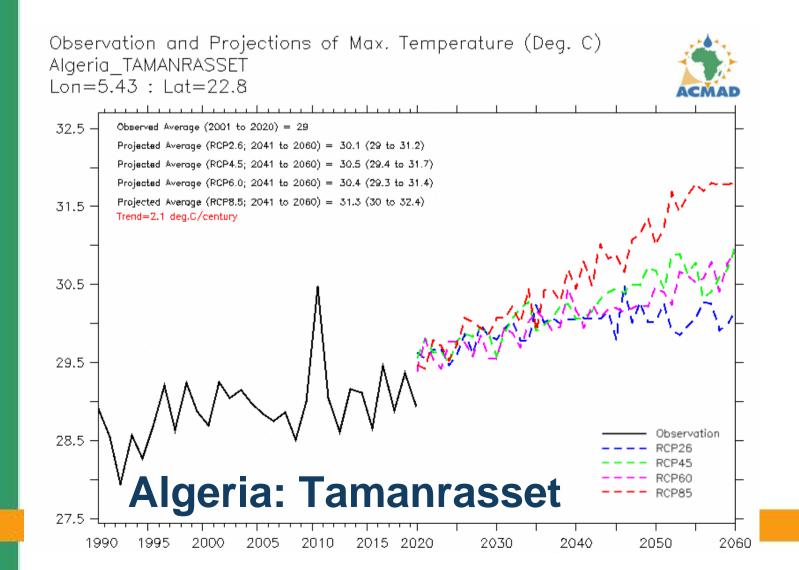


Disponible: Chaque Mois



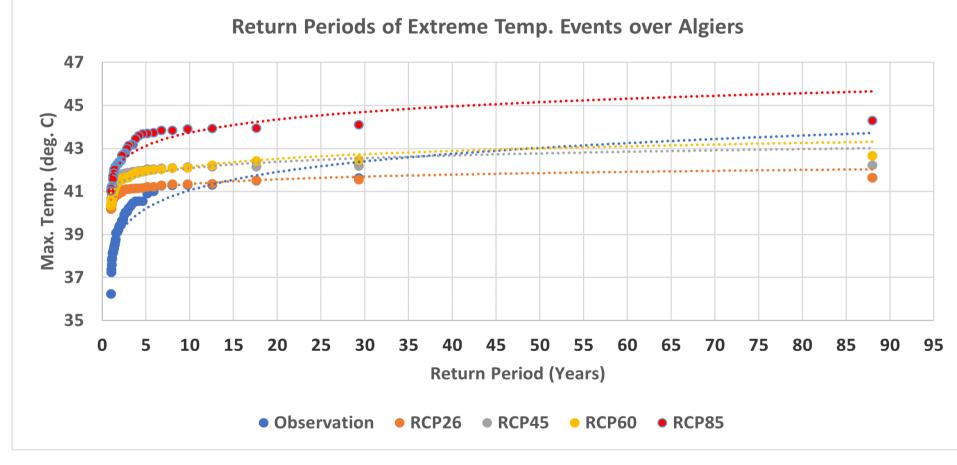
Observed and
Projected of surface
maximum
temperatures over
Algiers





Climate Change Services

Return Periods: Algiers



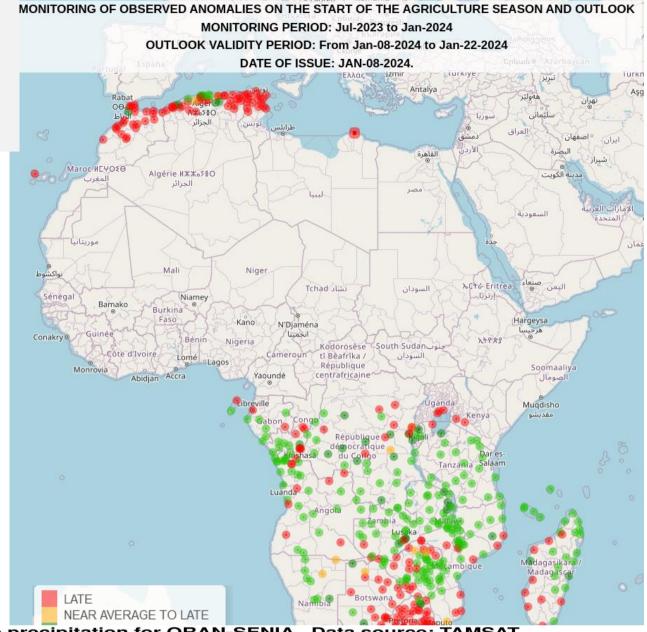
Extreme temperatures of > 40degC will in the near future be more frequent every 1 to 3 years contrary to 37 – 39degC that are presently frequent.



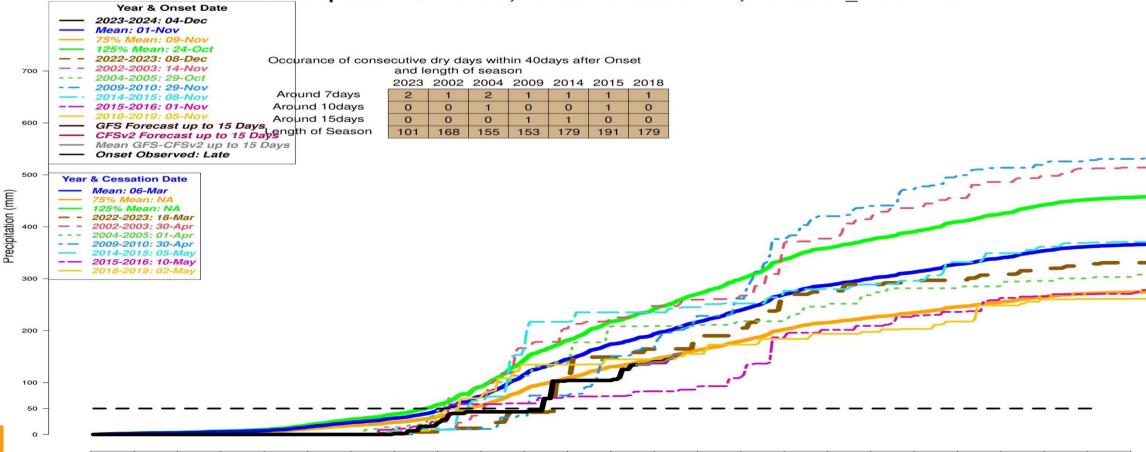
Contribution to the Food Security Value Chain – Monitoring and forecasting of the start of the agricultural season

Prediction of the start of the agricultural season, dry and wet periods to support farmers in planning their activities

Future development projects should integrate the production and dissemination of this information in real time to rural areas.

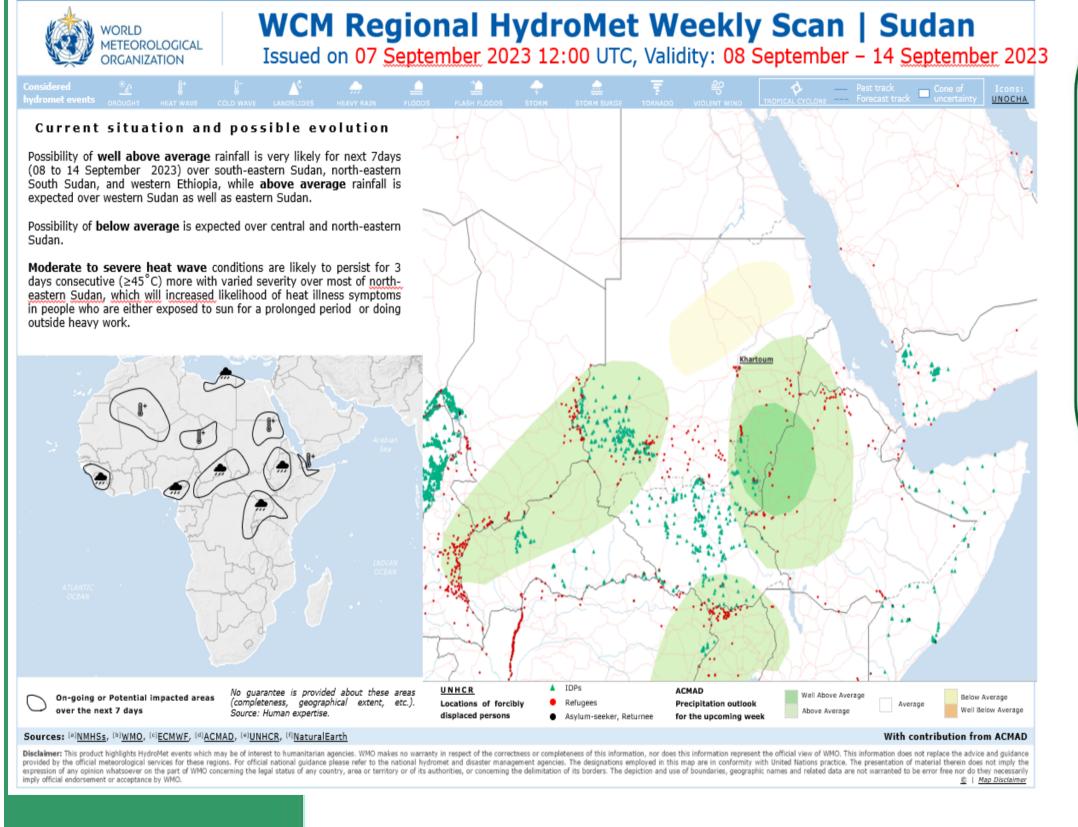




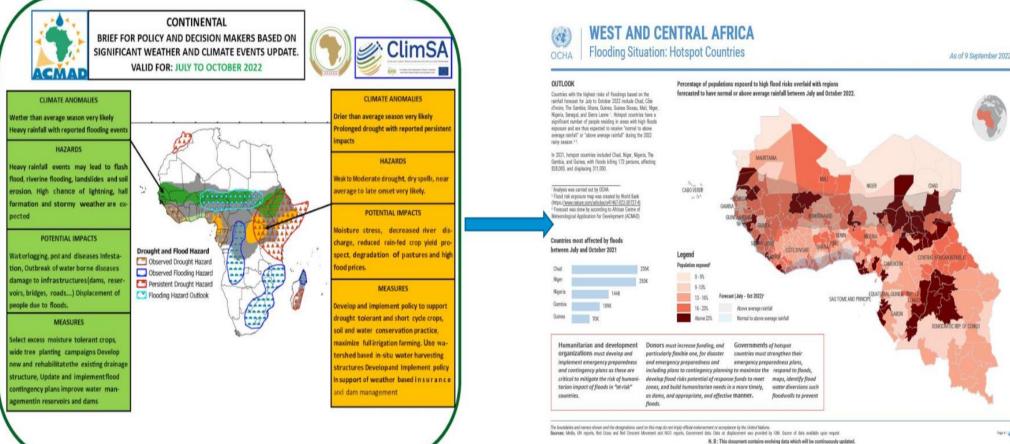




OPERATIONAL SERVICE CO-DESINGED AND CO-DEVELOPED WITH UN and HUMANITARIAN AGENCIES



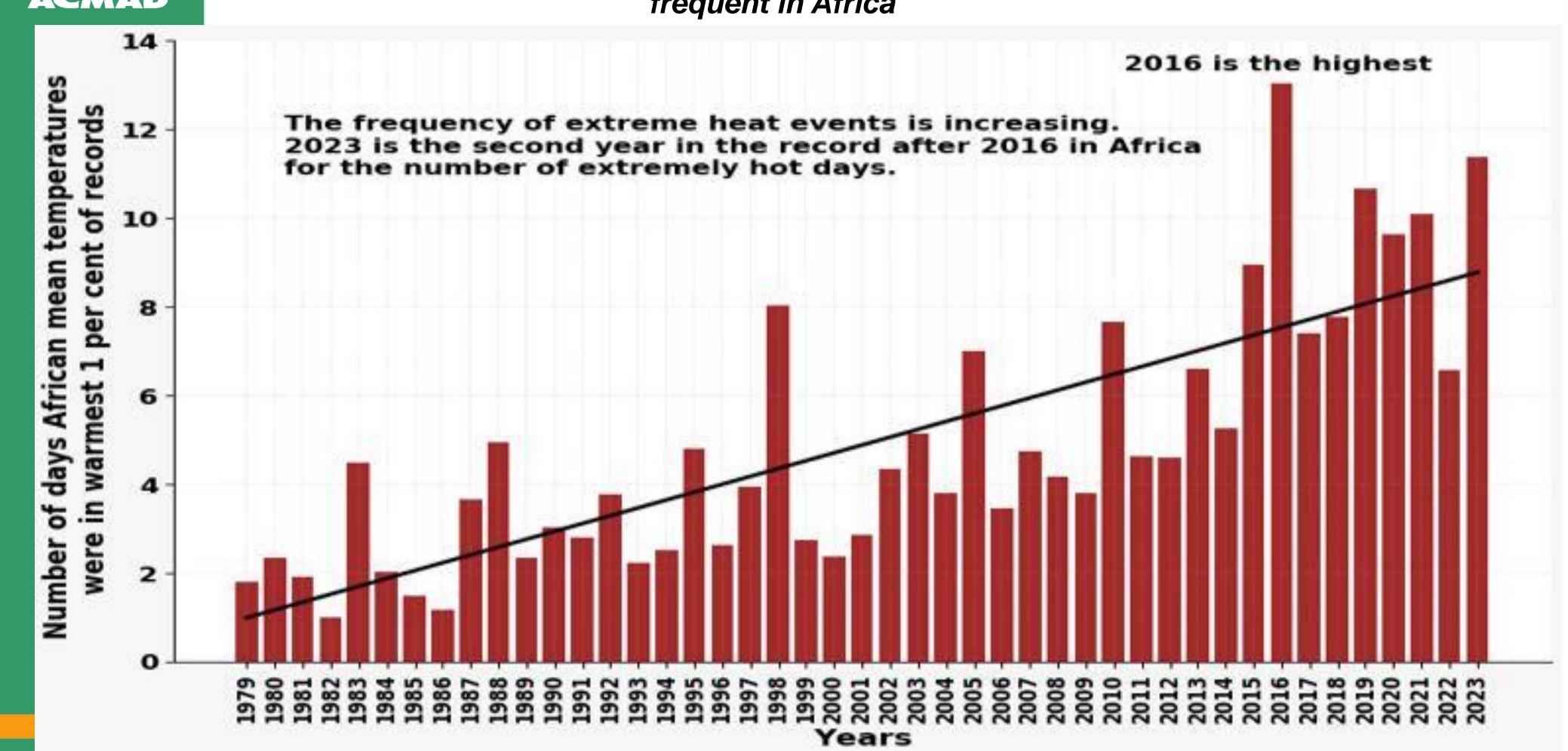
WMO Coordination Mechanism (WCM)



Provision of information's on expected impacts and risk, anticipatory action preventing implementation of risk reduction measures



Extreme heat events are becoming more frequent in Africa

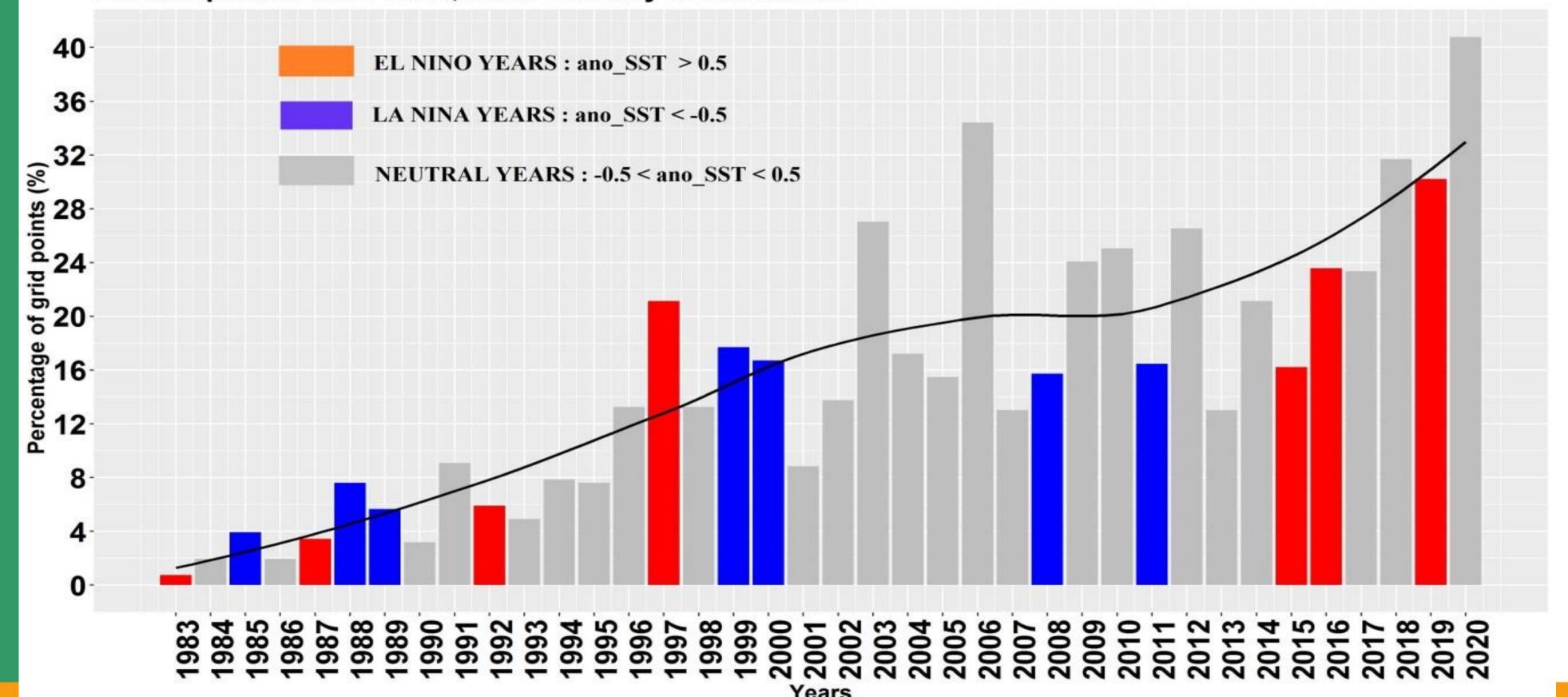




Observed Trends of Climate Change (2/2) *Precipitation*

More extreme rainfall events are observed across Africa

Percentage of grid points over African land masses with daily rainfall above the 90th percentile For the period 1981-2020, from January to December





Ongoing Initiative

CONTINENTAL MULTI-HAZARD ADVISORY CENTRE





The Centre produce bulletin and advisories on extreme event which may occur at continental level with level of the Severity of such an event for a decision maker for the next Sdays from issued date







The Centre use myDEWETRA platform as an integrated real-time system providing a single access point to key early warning Information as well as other Tools to provide Impact based forecast twice a week to different stakeholders.

ACMAD created through resolution 540 of the UNECA Conference of Ministers in April 1985 following the droughts of the 70s and 80s, is established in Niamey-Niger since October 1992 with mandate to be:

- Continental Weather and Climate Watch Centre for Africa with Monitoring, forecasting and early warning for droughts, floods, tropical cyclones and other extreme events as functions
- Institution of excellence for the Applications of meteorology for sustainable development with capacity building, methods, tools and products development, contribution to global weather and climate programs, database, research and innovation as functions

The Centre is also tasked to carry out capacity development for its Member State's National Meteorological and Hydrological Services (NMHSs) in weather prediction, climate monitoring, Information technology, research and transfer of technology.

With the Support from UNDRR, ACMAD established the Continental Multi-Hazard Advisory Center and contribute to AMHEWS by providing Meteorological forecast twice a week in Continental Watch under the Coordination of AUC.





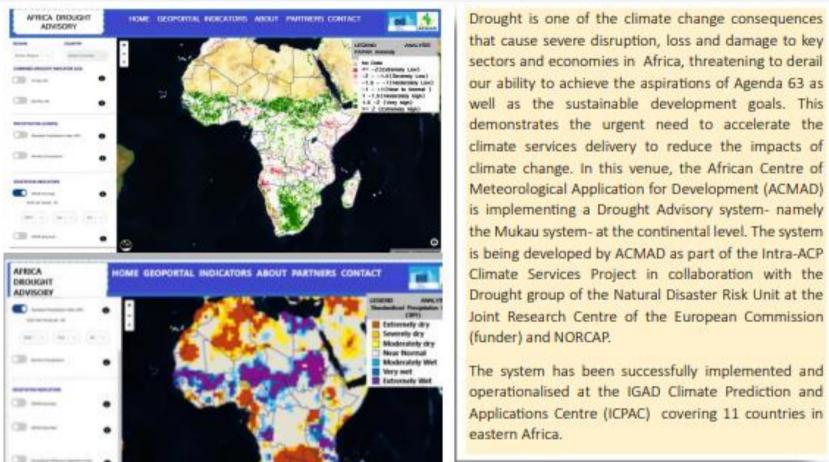




Africa Drought Advisory System







operationalised at the IGAD Climate Prediction and Applications Centre (ICPAC) covering 11 countries in eastern Africa.

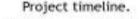
What does it solve?

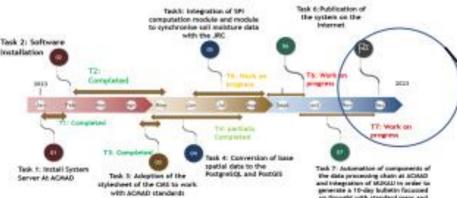
- 1. Structuring Web Access and Web Presence
- 2. Offers the possibility to automate data-inception, control, interpolation, computation of anomalies and high-quality web mapping.
- 3. Automatic warnings regarding developing or actual drought events every 10 days.
- 4. Additional indicators showing the recovery process after drought events.
- Provides multiple ways to inform the public.
- Structure for collaboration with local agencies
- Text, Mapping, and Graphics integration.

Taken from Global Drought Observatory-JRC

> Monitoring the ground condition and issuing a drought earlier warning











Ongoing **Initiative**

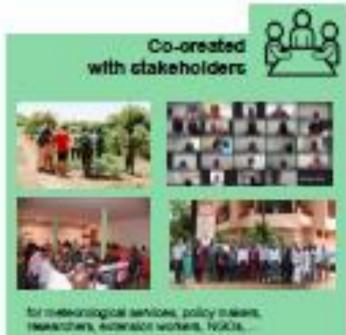




CLIMate Information platorm for AGriculature

"Qustomized agro-climatic information at high resolution".

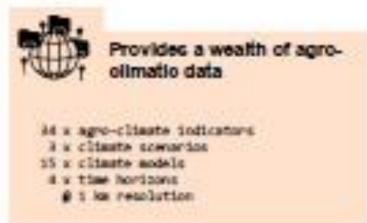






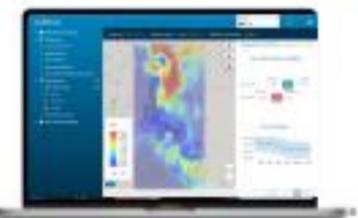








Offers Immediate access via an intuttive web portai







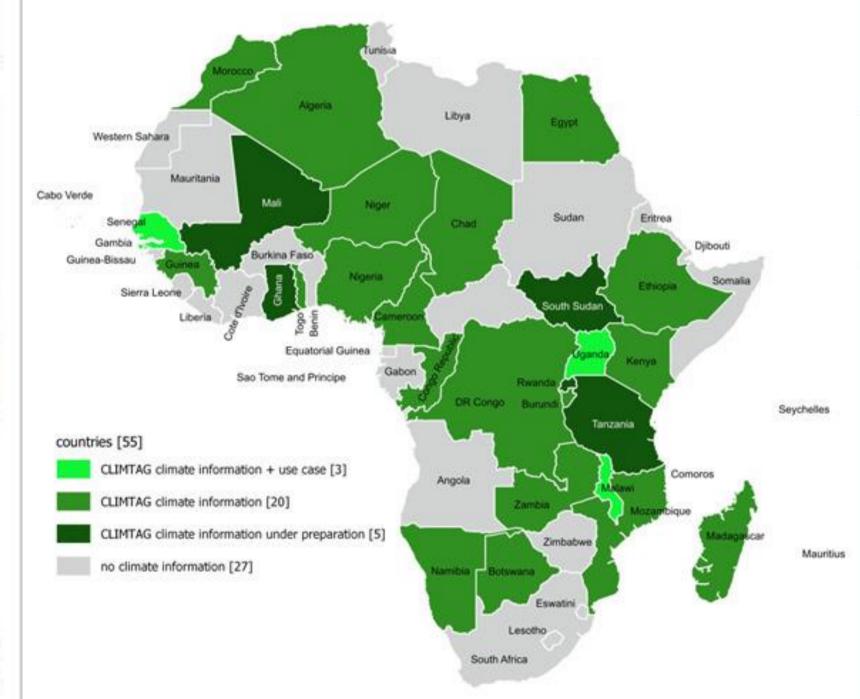






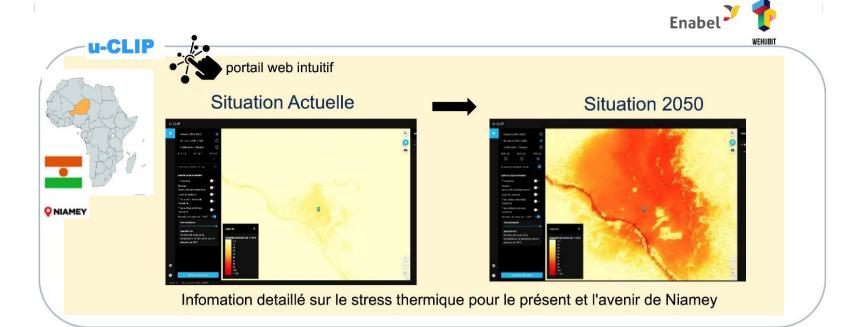




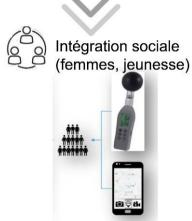




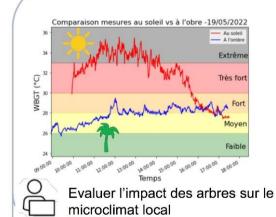
Ongoing Initiative

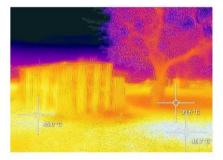










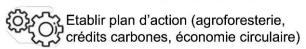




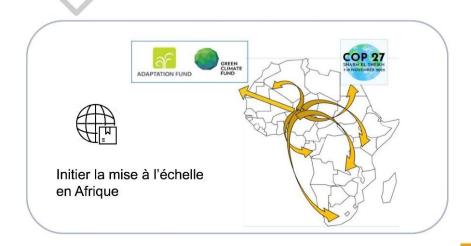
Modéliser à haute résolution



vito.be



Niamey Forest Climatique

















THANK YOU



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