





AFRICAN CENTRE OF

METEOROLOGICAL APPLICATIONS FOR

DEVELOPMENT (ACMAD)

https://acmad.org/

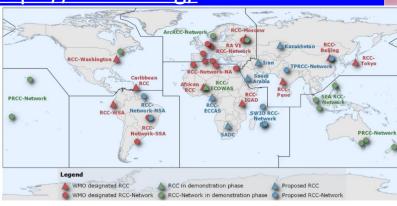


Figure 5: Established Regional Climate Centres (WMO, 2022)

2023 PROGRESS ON IMPLEMENTATION OF CLIMSA AND 2024 WORK PLAN AT ACMAD



May 28, 2024

ELILLY HOTEL, ADDIS ABABA ETHIOPIA



Prepared by: ACMAD Team

Presented by : Andre KAMGA FOAMOUHOUE





















ACMAD

OUTLINE





CHALLENGES, OPPORTUNITIES&LESSONS



CONTEXT



BRIEF ON ACMAD MISSION

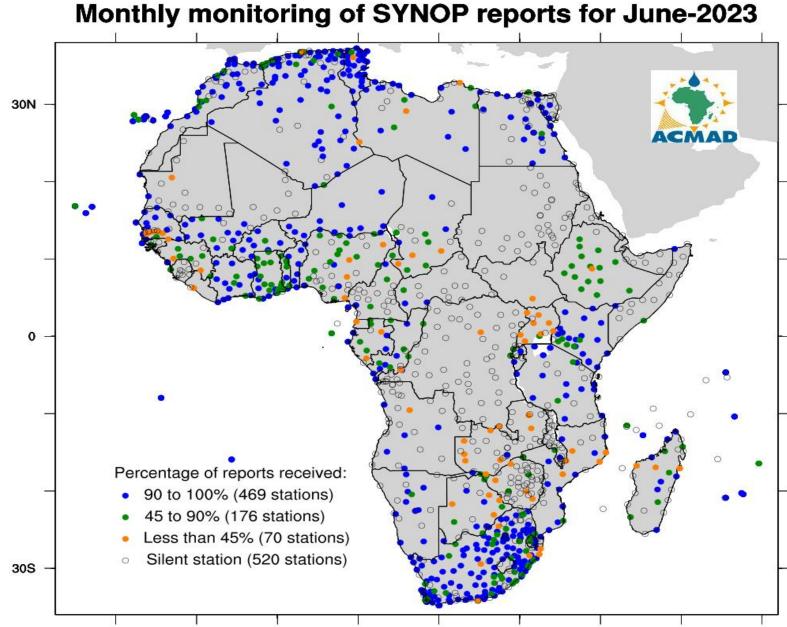
Created trough resolution 540 of the UNECA Conference of Ministers in April 1985 following the droughts of the 70s and 80s, ACMAD is established in Niamey-Niger since October 1992

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.

ACMAD is a WMO designated RCC since Congress in May 2015 and a Continental MultiHazards Advisory Centre since October 2022

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



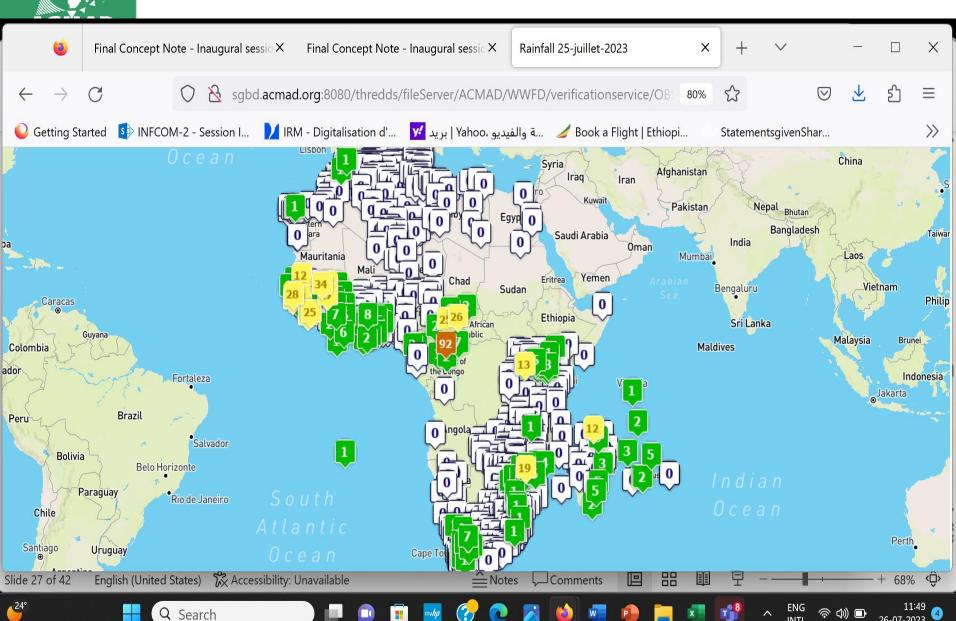


30E

60E



Stations used for continental HEAVY RAINFALL MONITORING



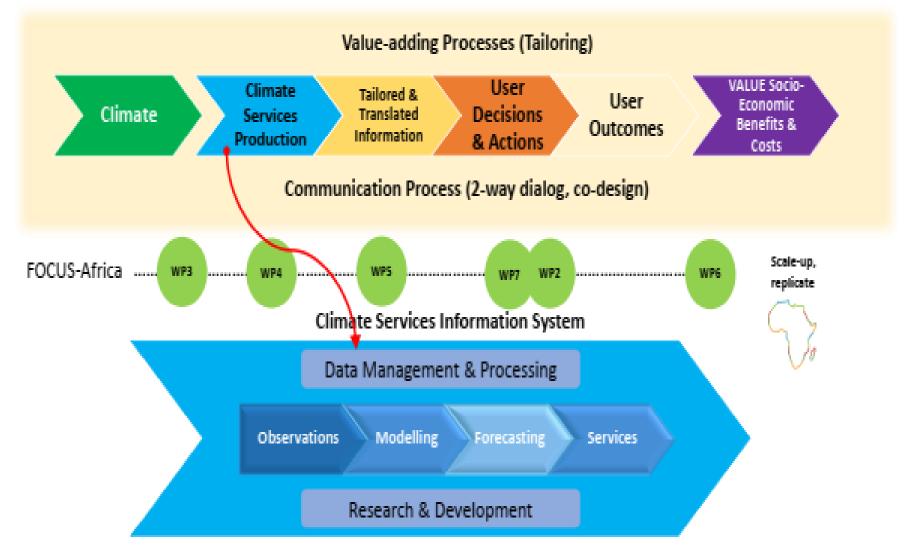


OVERALL OBJECTIVE

SUPPORT SUSTAINABLE DEVELOPEMENT THROUGH STRENGTHENING THE CLIMATE SERVICE VALUE CHAIN AT CONTINENTAL LEVEL IN AFRICA

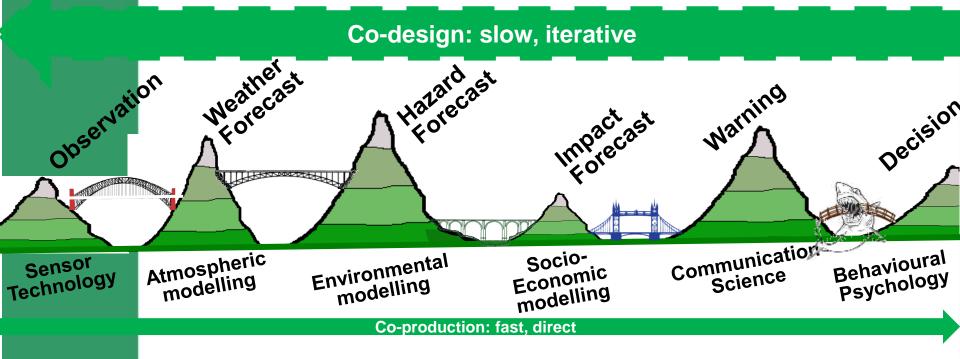


Climate Services: The Value Chain





Along warning value chain for early warning for All



Bridges represent necessary Partnership

Mountains are needed expertise to operate warnings



OUTPUTS

1:
User Interface
Platforms (UIPs)

5: Policy awareness



2: Climate Service Delivery

4: Capacity Development

3:
Access to data &
Products&info

ACMAD

STRENGTHENED USER INTERFACES

Deliverables&Indicators

- ✓ 3 UIPs (agriculture, DRR, Health)
- ✓ 2 Sub UIPs (Infrastructure, water)
- ✓ ToRs , Rules of Procedures and Products & Services
- ✓ For a and worshops organized or attended to operationalize UIPs (ClimHealth Africa, WMO RAI Hydrological Advisors forum, ACMAD/ClimSA meetings on Early wraning for all at continental and national levels, meetings with PAFO, ...);

- ✓ Negotiate MoU with PAFO (Q4 2024 Q1 2025)
- ✓ Further operationalization of the UIPs with Agriculture, DRR
- ✓ Attend platforms and working groups fora and meetings on Infrastructure, DRR, agriculture, water and Health
- ✓ Update and test new products and services



STRENGTHENED USER INTERFACES

Deliverables&Indicators

- ✓ Technical assistance with concept notes, templates and tools for stakeholder engagement, product and services definition and specification, organization of UIP consultations, workshops and meetings in ECOWAS, ECCAS regions and pilot countries
- ✓ Technical Notes, Information Notes on impact based services with UNOCHA, UNHCR, IFRC with 02 Anticipatory Action dialogue days

- ✓ Support establishment and Operationalization of the UIPs in the RECs and pilot countries (i.e ECCAS, ECOWAS) with trainings on User Interfaces (Q2 2024 -Q1 2025)
- ✓ Develop and use tools for feedback collection on the use of climate service



We shall provide weather, climate, water data, information, Knowledge, understanding

Ensure that information is used to make decisions and act to reduce negative impacts and exploit opportunities

Principles and success measures

Ensure that all stakeholders are aware of threats and mitigation actions

Measure of success: evidence that fewer surprises occur, or fewer poor decisions are made due to inadequate information.

Make society aware of climate services

Measure of success: evidence that capacity building and training include various groups in society. Increase the number of public engagement events. Conduct successful citizen and focus groups awareness initiatives

1. Measure of success: workshops designed with and for forecasters and decision makers to raise awareness on new tools and provide training to make their work more effective.

Ensure that stakeholders are aware of each other's work for coordination:

Measure of success: projects or initiatives started/continued with partners



Deliverables&Indicators

- ✓ 02 ACMAD staffs trained on the use of ClimSA station
- ✓ Reports from ACMAD/RCC staff and on infrastructure status (Short term expertise, secondments, fellowships, WIS 2.0)
- ✓ Status report of IT support expert from Morocco (develop WIS/DCPC at ACMAD)

- ✓ Train ACMAD staff by EUMETSAT, JRC, COPERNICUS on PUMA, Climate Stations operations
- ✓ Status report on IT infrastructure with focus on its relevance to support effective service delivery



Deliverables&Indicators

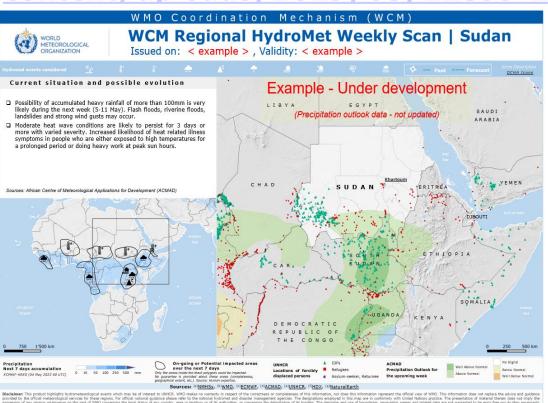
- ✓ Continental synoptic technical notes and watches for cyclones, high temperatures, dusts, heavy rains, strong winds (twice a week)
- ✓ Monthly Continental technical notes, outlook statements, summary for decision makers and climate watches
- ✓ Briefings and Ad Hoc Briefings
- ✓ Regional technical notes and Climate outlook statements for ECCAS and ECOWAS (2023 PREASGG, PRESAC, PRESASS)
- ✓ National climate Outlooks supported with datasets, methods, tools and products in ClimSA pilot countries
- ✓ Annual technical note and report on the state of climate for Africa in 2022



Deliverables&Indicators

✓ Recognizing ACMAD's contribution to UNHCR operations in refugee and displaced people camps in the Continent, ACMAD received a letter of Appreciation available at:

https://acmad.org/wpcontent/uploads/2019/03/12899-2023-S-DPS.pdf



CO-DESIGN AND CO-DEVELOPMENT OF BESPOKE CONTINENTAL HAZARDS OUTLOOK SERVICES FOR UNHCR



CO-DEVELOPMENT OF BESPOKE CONTINENTAL HAZARDS OUTLOOK SERVICES FOR UNHCR

WMO Coordination Mechanism (WCM) WCM Regional HydroMet Weekly Scan | Sudan METEOROLOGICAL Issued on: < example > , Validity: < example > OCHA Icons Current situation and possible evolution Example - Under development Possibility of accumulated heavy rainfall of more than 100mm is very likely during the next week (5-11 May). Flash floods, riverine floods, SAUDI (Precipitation outlook data - not updated) landslides and strong wind gusts may occur. ARABIA ☐ Moderate heat wave conditions are likely to persist for 3 days or more with varied severity. Increased likelihood of heat related illness symptoms in people who are either exposed to high temperatures for a prolonged period or doing heavy work at peak sun hours. Khartoum Sources: African Centre of Meteorological Applications for Development (ACMAD) ETHIOPIA KENY CONGO 1'500 km 500 km No Signal IDPs On-going or Potential impacted areas UNHCR over the next 7 days Next 7 days accumulation Precipitation Outlook for Below Normal Locations of forcibly Only the zones inside the black polygons could be impacted. No quarantee is provided about these areas (completeness, ECMWF-HRES (04 May 2023 00 UTC) Above Normal Asylum-seeker, Returnee Well Below Normal

Disclaimer: This product highlights hydrometeorological events which may be of interest to UNHCR. WMO makes no warranty in respect of the correctness or completeness of this information represent the official view of WMO. This information does not replace the advice and guidance provided by the official meteorological services for these regions. For official national guidance please refer to the national hydromet and disaster management agencies. The designations employed in this map are in conformity with United Nations practice. The presentation of material therein does not imply the expression of any opinion whatsoever on the part of WMO concerning the legal status of any country, area or territory or of its authorities, or concerning the delimitation of its borders. The depiction and use of boundaries, geographic names and related data are not warranted to be error to the part of WMO concerning the legal status of any opinion whatsoever on the part of WMO.

Sources: [4] NMHSs, [6] WMO, [6] ECMWF, [6] ACMAD, [6] UNHCR, [6] HDX, [6] Natural Earth

geographical extent, etc.). Source: Human expertise





CONTINENTAL

BRIEF FOR POLICY AND DECISION MAKERS BASED ON SIGNIFICANT WEATHER AND CLIMATE EVENTS UPDATE.

VALID FOR: FEBRUARY TO MAY 2024



CLIMATE ANOMALIES

Drier than average season very likely Prolonged drought with reported persistent impacts

HAZARDS

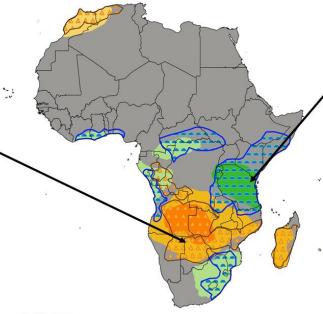
Weak to Moderate drought, dry spells, near average to late onset very likely.

POTENTIAL IMPACTS

Moisture stress, decreased river discharge, reduced rain-fed crop yield prospect, degradation Of pastures and high food prices.

MEASURES

Develop and implement policy to support drought tolerant and short cycle crops, soil and water conservation practice, maximize full irrigation farming. Use watershed based in-situ water harvesting structures Developand Implement policy Insupport of weather based in surance and dam management



zard

LEGEND

	Observed drought ha
	Observed flood hazar
	Drought hazard outlo
000000000000000000000000000000000000000	Flood hazard outlook

CLIMATE ANOMALIES

Wetter than average season very likely Heavy rainfall with reported flooding events

HAZARDS

Heavy rainfall events may lead to flash flood, riverine flooding, landslides and soil erosion. High chance of lightning, hall formation and stormy weather are expected

POTENTIAL IMPACTS

Waterlogging, pest and diseases Infestation, Outbreak of water borne diseases damage to infrastructures (dams, reservoirs, bridges, roads...) Displacement of people due to floods.

MEASURES

Select excess-water tolerant crops, wide tree planting campaigns Develop new and rehabilitate the existing drainage structure, Update and implement flood contingency plans improve water management in reservoirs and dams



- ✓ Build interregional climate outlooks (equatorial Africa, Sahel from Cape verde to Djibouti in ACCOF) (Q1 2024 and Q1 2025)
- ✓ Continue to contribute to IGAD, SADC, IOC, MEDCOF/PRESANORD Climate outlooks
- ✓ Prepare a report on ACMAD/RCC operations
- ✓ Prepare the technical notes, statements and organize briefings including Ad Hoc briefings
- ✓ Prepare continental and ECOWAS, ECCAS Regional climate outlooks
- ✓ Technical Support ECOWAS, ECCAS, IOC RCC demonstration



Deliverables & Indicators

- **✓ Products** catalogue updates for Climate station
- ✓ Scripts shared with JRC for generation of RCC products

- **✓ Dev**elopment and testing scripts on climate Station
- ✓ Continue development and testing of products with JRC



Climate Change Services for Design and operation of resilient Infrastructure

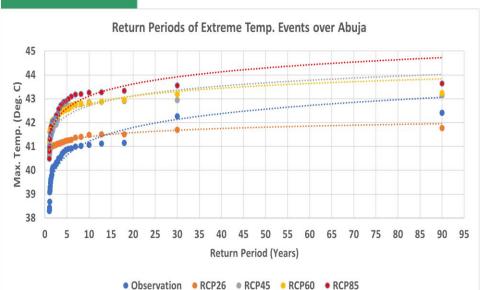
https://rcc.acmad.org/CC_Services/climate_change_indexes.html

Prototype Service- Analysis of observed and Projected Extreme Event Return periods Period

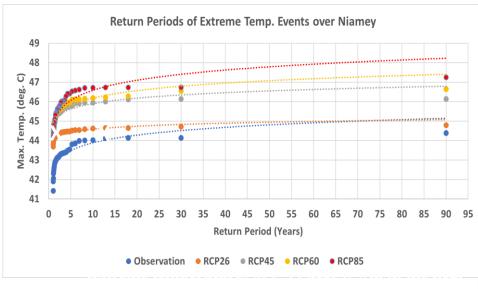




Nigeria: Abuja



Niger: Niamey



Extreme temperatures of 44° C in Niamey's current period occurs every 5 to 10 years will very likely become yearly events. Extremes of 47° C may occur every 10 to 15 years in the future climate.

Future infrastructure expected to resist the impact of such high extremes









ACESS TO DATA AND PRODUCTS

Deliverables&Indicators

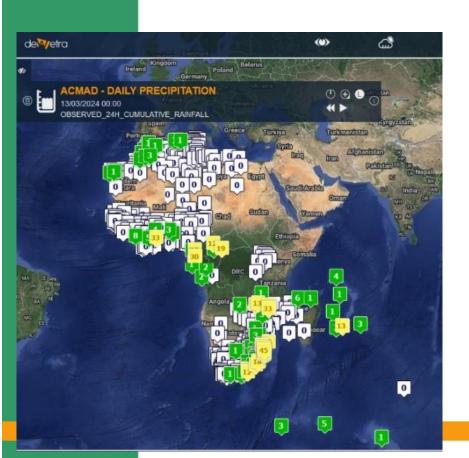
- ✓ data, products and services of ClimSA station and Climsoft updated , Web portal updated
- ✓ 02 Weather forecasting staff reports indicating technical assistance to countries and regions on ClimSA and PUMA stations
- √ 03 Staffs from NMHSs on OJT reports with section on ClimSoft use for indices generation from station data

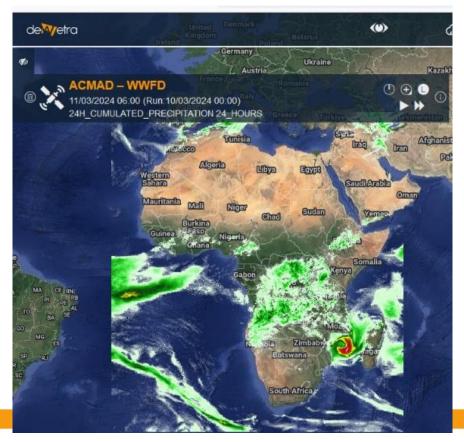
- ✓ Continue updates on ClimSA station and Climsoft
- ✓ Continue support upon request by countries on PUMA and ClimSA
- ✓ Continue training and exchanges with RCCs and NMHSs on ClimSoft and Climate Station



ACCESS TO DATA AND PRODUCTS

- ✓ Operationalize updated products on Mydewetra, MUKAU and ClimTAG platforms
- ✓ Accelerate ClimSA and AMHEWAS collaboration on early warning and climate information services for building resilience
- ✓ Support to NMHSs digital transformation





ACCESS TO DATA

Deliverables&Indicators

- Update catalogue of products for DRR to upload on MyDEWETRA
- Catalogue of products (climate indices) for infrastructure resilience
- Update catalogue of products for Agriculture
- ✓ Report focused on methods, tools, products from Copernicus integrated in ClimSA services

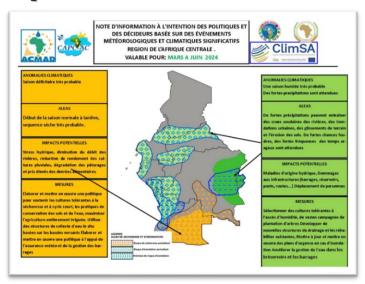
Plan for 2024&2025

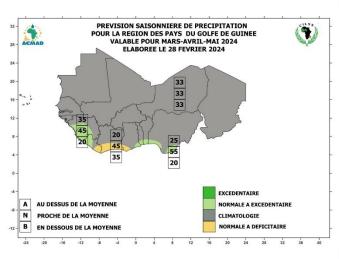
✓ provide updated products on Mydewetra, MUKAU, UCLIP and ClimTAG platforms for Agriculture, DRR, Cities resilience, NMHSs and RCCs



Deliverables&Indicators

✓ PRESASS, PRESAC, PRESAGG, GHACOF and SARCOF reports in 2023 with contributions of ACMAD on methods, tools or products;





- ✓ Support continue on methods tools and products for RCOFs
- ✓ Support development of national products catalogue for national climate information system

ACCESS TO DATA, PRODUCTS AND SERVICES

Deliverables & Indicators

- ✓ Installation and status of operations report for the ClimSA station
- **✓** MoU on data exchange prepared with ECMWF
- ✓ Interactions with JRC to define for products intercomparison and quality assurance activities
- ✓ Open Data access with JASMIN and WHO/AFRO to improve meningitis Vigilance Products

- ✓ Additional MoUs negotiation, report on the status of Stations and web portal (Q1-Q3 2024)
- **✓** Trainings and exchanges with JRC on customization (Q3-Q4 2024)
- Maintain and repair PUMA and Climate stations (Ad Hoc)
- Monitoring and update of web portals, liaise with web experts from other ClimSA projects (Ad Hoc)



Enhanced Capacity

Deliverables & Indicators

- √ 13 On the Job training (01 woman), 03 Secondments and 04 internships (including 03 women)
- ✓ 24 training workshops and Fora on services for agriculture, DRR, Health and courses on early warning with WMO and EAMAC

Work Plan 2024&2025

- ✓ On the Job training, secondments and internships
- ✓ Maintain and repair PUMA and Climate station (Ad hoc)
- ✓ Trainings through Fora, workshops, conference, twinning exercises....

Deliverables & Indicators

- Technical note on the 2022 state of climate report statement
- Web portal updated
- ✓ 01 workshop for development planners for West Africa Region with UNECA/SROWA to support financing of transition to inclusive green economy
- 02 high level visits of ambassadors: Algeria and Italy
- ✓ Communication materials (among which videos on <u>start of</u>
 <u>Agriculture season Monitoring and outlook Tool</u>, ACMAD achievements and perspectives to <u>accelerate climate action</u> and <u>delivering climate service</u>)
- ✓ Side event with OACPCs Ambassadors on ClimSA services for Development
- ✓ UNECA COM 2024 on financing transition to inclusive green economies recognized Climate action as a priority and filling technology gaps as an imperatives through institutions like ACMAD



Work Plan 2024&2025

- ✓ Raise awareness with High Level Statement at COP 29 on climate information for resilient cities in Africa...
- ✓ Provide climate information and guide resilient infrastructure policies
- ✓ Promote ACCOF as an integrated mechanism for bridging the technology gap imperative for greening Africa's economy (with UNECA)
- ✓ Finalize the AUC, UNECA and ACMAD relationship agreement to accelerate institutional set up we need to bridge technology gap for climate action
- ✓ Update web portal, exchanges on new climate information of relevance to planning and policy making



Deliverables & Indicators

- Monthly Briefs for policy/decision makers with recently observed and expected climate anomalies, hazards, potential impacts, anticipatory/response measures
- ✓ COP 28 High level statement on Early warning for all achievements and perspectives by ACMAD (link)
- **✓ Updat**es of contingency plans by OCHA and preparation plans by UNHCR
- ✓ Training and exchange presentations for ClimHealth Africa, Consultative Group for Disaster Management in West Africa, AWG DRR platforms, Africa Regional forum for sustainable development, other policy level events
- Communication materials and reports

Work Plan 2024&2025

Monthly briefs, statement for COP 29 and 30, contingency and anticipatory action plans, material for policy awareness and debates, communication material and reports



Work Plan 2024&2025 (add value to state of climate Report)

- ✓ Impacts and socio-economic benefit assessment methodology selection and tool
- ✓ Losses and damages assessment methods and tools (FoCus Africa, UIP)
- ✓ Use tools above to provide more added value inputs to impact section of the annual state of climate reports for Africa



STATEMENT OF BUDGET EXECUTION Until December 2023

ACMAD-CLIMSA BUDGET EXECUTION March 01, 2021 to December 31, 2023 (Expenditure execution)

Lines	Global Budget	Execution	Rate
Human Resources	2,689,231.23	1,452,481.49	54%
Travel	365,400.00	161,986.11	44%
Equipment and supplies	182,596.03	92,141.15	50%
Local office	349,060.00	86,224.48	25%
Other costs, services	609,477.57	247,730.50	41%
Other	15,000.00	792.73	5%
Subtotal	4,210,764.83	2,041,356.46	48%
Provision for contingency reserve	82,617.31	0.00	0%
Indirect costs	214,669.10	51,150.61	24%
TOTAL (Euros)	4,508,051.24	2,092,507.07	46%



STATEMENT OF CASH INFLOW Until December 2023

ACMAD-CLIMSA STATEMENT OF CASH INFLOW March 01, 2021 to December 31, 2023

Description	Amount (Euros)	Rate
Global Budget	4,508,051.24	100%
First pre-financing	1,352,415.37	30%
Second pre-financing	1,352,415.37	30%
Third pre-financing	561,660.00	12%
Total received funds from AUC	3,266,490.74	72.46%
BALANCE	1,241,560.50	27.54%

BUDGET For 2024/25



ACMAD-CLIMSA BUDGET Jan 01, 2024 to Dec 31, 2025

Lines	Global Budget	Budget Jan 24-Mar 25
Human Resources	2,689,231.23	640,162.90
Travel	365,400.00	202,300.00
Equipment and supplies	182,596.03	162,916.59
Local office	349,060.00	262,246.95
Other costs, services	609,477.57	564,730.04
Other	15,000.00	14,000.00
Subtotal	4,210,764.83	1,846,356.48
Provision for contingency reserve	82,617.31	73,854.26
Indirect costs	214,669.10	96,010.54
TOTAL (Euros)	4,508,051.24	2,016,221.28



EXAMPLES OF PRODUCTS AND SERVICES



IMPACT BASED INFORMATION (from Bulletin of the American Meteorological Society) - THIS IS WHAT WE WANT IN THE MEDIUM TO LONG TERM



Scenario 1

Natural System



Extreme hot days and heat waves becoming much more frequently.

More severe and more frequent droughts

Areas of impact



Water shortages Highly impacted agriculture -Insecure food supply Hydro power shortages

Societal Consequences



Political instability

Health crisis



Conflict

Responses



Adapt agricultural systems Develop adequate building design standards

Use alternative energy sources Alternative water technology

LUSAKA



Scenario 2

Warmer & more erratic and extreme cainfall

Natural System



Less predictable rainfall, more contrast between wet and dry seasons

Wetter wet seasons- and drier dry season

Areas of impact

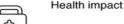


Agriculture impacted - more irrigation needed Crop failures possible due to erratic rainfall More flooding Health impact: more heat stress

Societal Consequences



Humanitarian Crises



Responses



Adapt agricultural systems Develop adequate building design standards Use alternative energy sources Alternative water technology

LUSAKA



Scenario 3

Warmer & more extreme rainfall

Natural System



Stable water sources

Increased evaporation

Areas of impact



Agriculture impacted - more irrigation needed Crop failures possible due to increased evaporation or extreme rainfalll More flooding

Societal Consequences



Humanitarian Crises



Health impact

Responses



Adapt agricultural systems Develop adequate building design standards



Alternative water technology

LUSAKA

Fig. 5. Infographic summarizing three plausible future climate scenarios for Lusaka along with some key impacts, possible societal consequences, and responses.

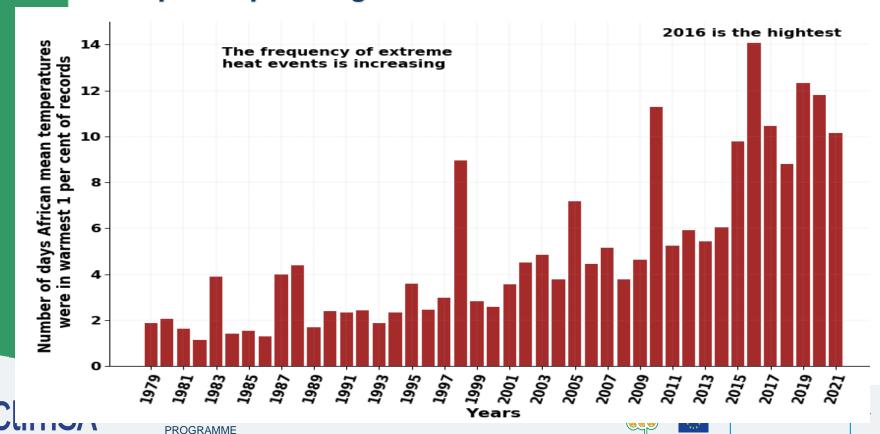








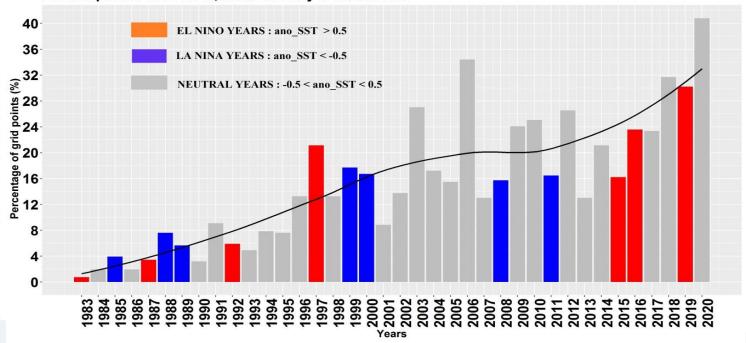
Trends on number of extreme hot days across Africa. 2016 was the warmest year on record globally. Research on high frequency of very warm days impacts on agriculture, energy, infrastructure, health, water scarcity, disasters is a priority for sustainable development planning





Trends on the surface hit by heavy rainfall. A research on impacts of heavy rains at regional/local levels with emphasis on losses and damages to infrastructure, crops, major assets particularly in cities is essential for resilient development planning

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











Climate Change Services for Planning and Design Infrastructure https://rcc.acmad.org/CC_Services/climate_change_indexes.html



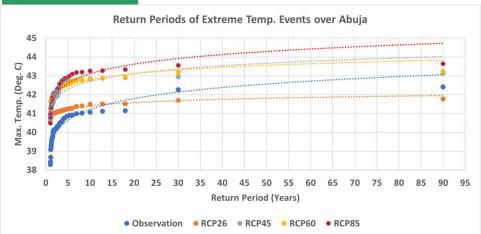


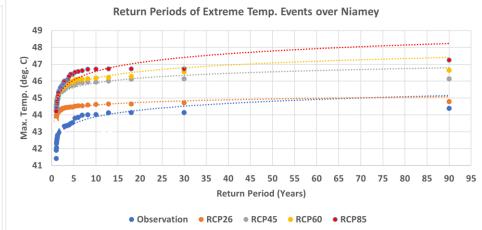
ervice— Analysis of observed and Projected Extreme Event Return

Nigeria: Abuja









Extre future









Climate Change Services for Planning and Design Infrastructure



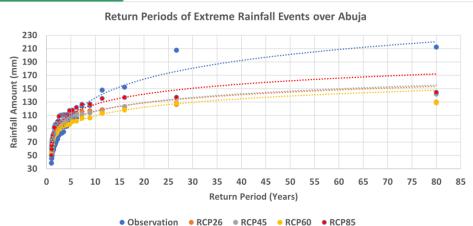


https://rcc.acmad.org/CC_Services/climate_change_indexes.html

ervice— Analysis of observed and Projected Extreme Event Return

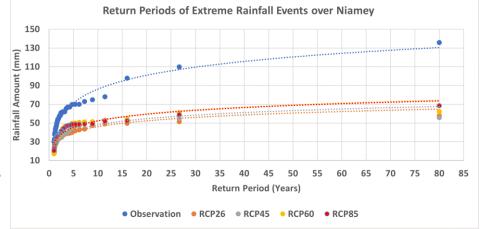
INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS

Nigeria: Abuja



PROGRAMME

Niger: Niamey



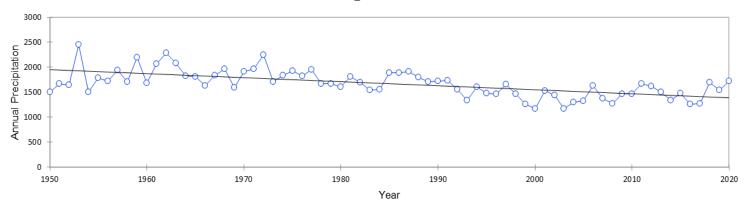




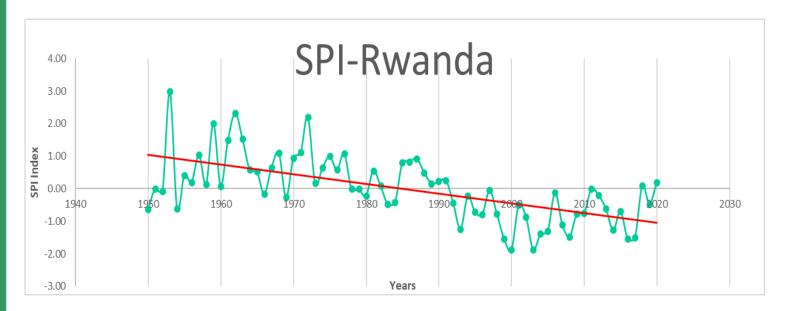




Annual Precipitation-Rwanda



Drought monitoring Service with more actionable indicator

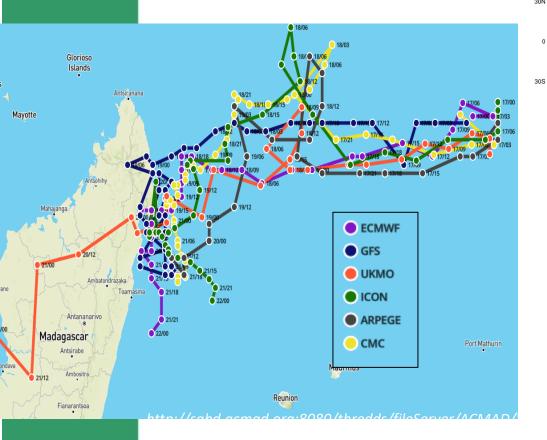


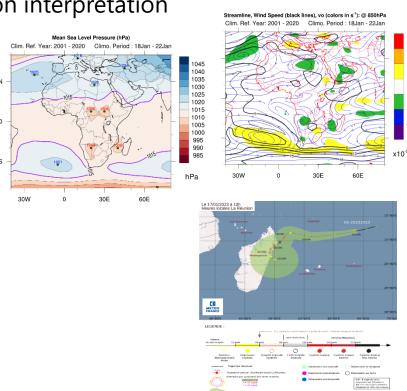
Tracks from: 17-01-2023, 00UTC to 22-01-2023, 00UTC

(Global deterministic models : ARPEGE, CMC, ECMWF, ICON, GFS and UKMO)

- Climatology of the forecast period favors evolution towards the

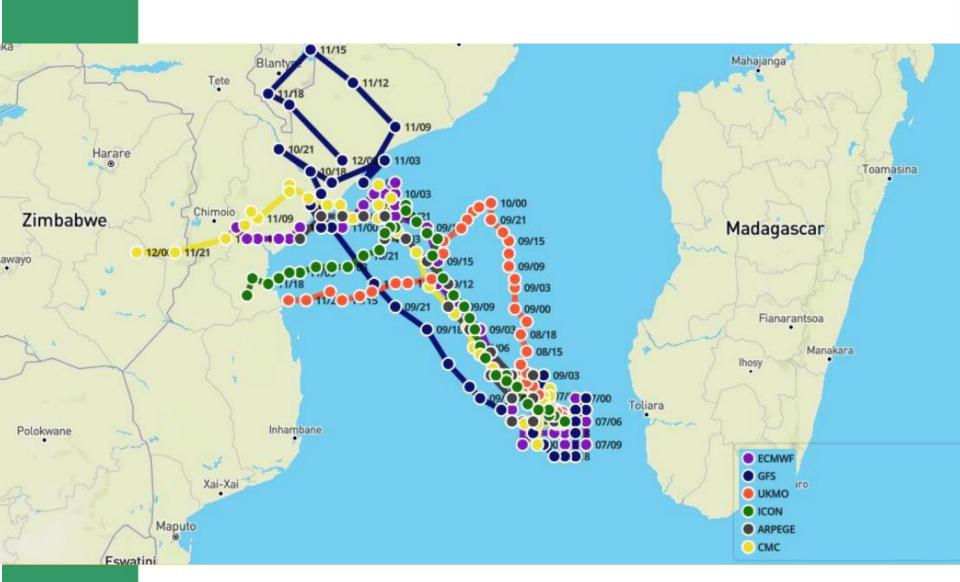
Mozambican channel Need training on interpretation



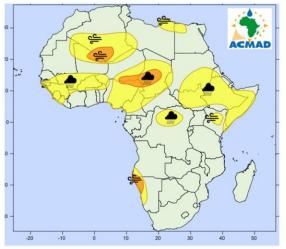




Recent Storm over Mozambican Chanel

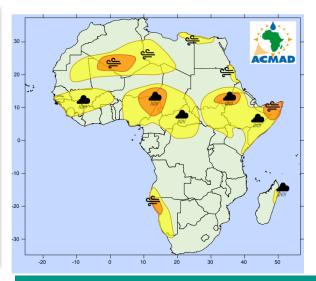






MULTI-HAZARD OUTLOOK Validity: 2022-07-15 issued on 2022-07-11

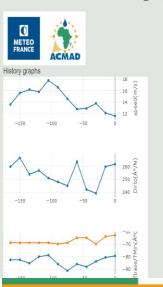
////// Rain	U Wind	Dust	Meningitis
Very heavy	Very strong	Very heavy	Very likely
>100mm	>80kmh⁻¹	>1000µg m ⁻³	
Heavy	Strong	Неаvy	Likely
50-100mm	>65kmh ⁻¹	>600µg m ⁻³	
Moderate	Moderate	Moderate	Less likely
10 - 49mm	>50kmh ⁻¹	>400µg m ⁻³	
Light	Light	Light	
1 - 10mm	<s0kmh<sup>-1</s0kmh<sup>	<200µg m ⁻³	



MULTI-HAZARD OUTLOOK Validity: 2022-07-15 issued on 2022-07-14

////// Rain			Meningitis	
Very heavy	Very strong	Very heavy	Very likely	
>100mm	>80kmh ⁻¹	>1000μg m ⁻³		
Heavy	Strong	Неаvy	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 m ⁻³		

MSG 2022-07-15T15:00:00Z : RDT-CW_v515__





Observed daily rainfall (mm) on: 16-juillet-2022







VIGILANCE FOR HEAVY RAINFALL FOR THE NEXT 5 DAYS. POTENTIAL IMPACTS AND PREPARATION/RESPONSE MEASURES VERIFICATION WITH RAINFALL DATA ON THE LEFT



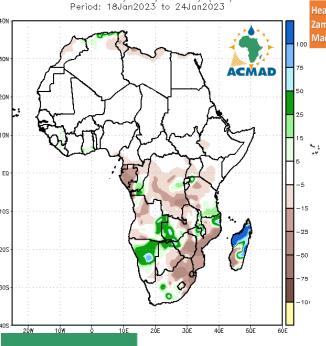
VIGILANCE MAP AND POLICY BRIEF FOR HEAVY RAINFALL AND STRONG WINDS



Valid From January 20 to 24, 2023

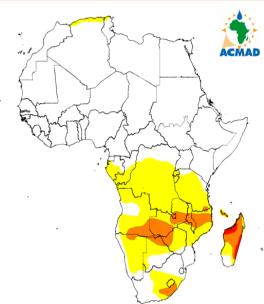
Issued on January 19, 2023

HIGHLIGHT: Extreme Heavy rainfall associated with the Tropical Storm CHENESO is expected over North-western and eastern Madagascar



CPC—Uni 7day Precip Anomaly (mm)

Heavy rainfall is expected over Tanzania, Mozambique, Malawi, Zambia, Angola, Namibia, Botswana, Zimbabwe, Comoros and Madagascar

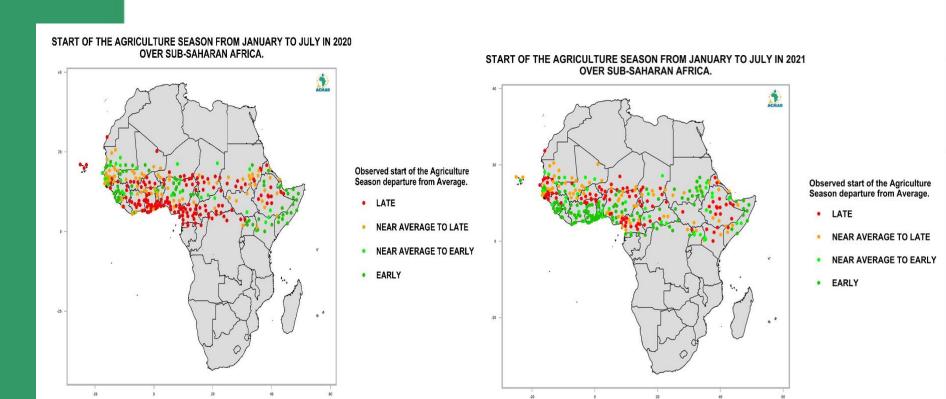


	Phenomen on	Hazard	Potentials Impacts	DRM Measures / Advices
	In next 5 days accumulate d rainfall (50- 100mm) is likely,	Moderate rainfall, flash flood, riverine flooding, landslides, soil erosion and lightning likely	Displacements of people due to floods, outbreak of water borne diseases, damage of 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.
	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 services and DRM authorities to activate flood contingency plans for emergency response (assistance to victims, search & rescue operations), and be in close touch with NHMS in case the situation becomes worst.

<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.

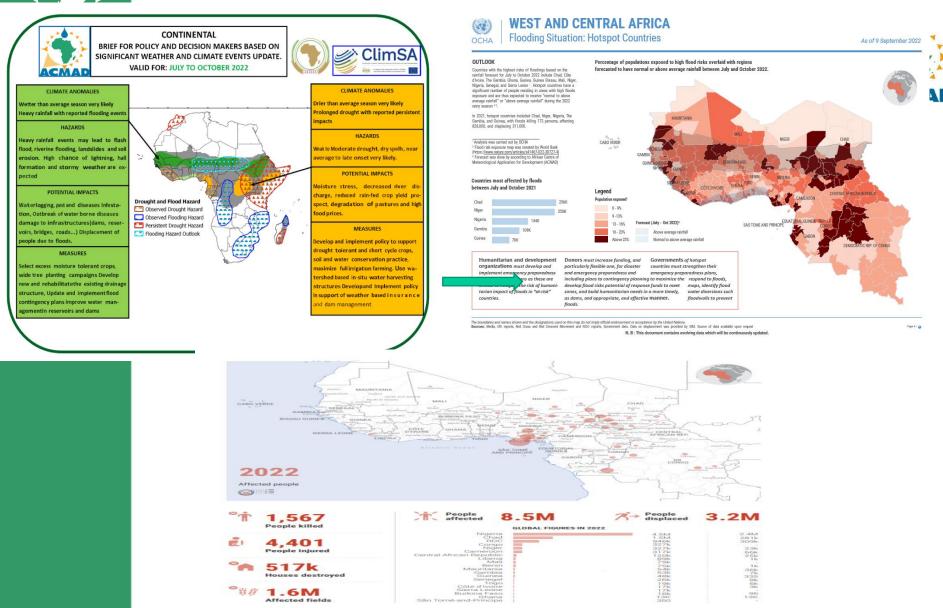


Research and innovation is promoted to intercompare Start of season definitions, products and compare with perceptions and findings of extension workers and subsistence farmers. Observations of disruptions on the start of season, processes and phenomena driving this event. Its predictability are essential research priorities for the African agriculture sector



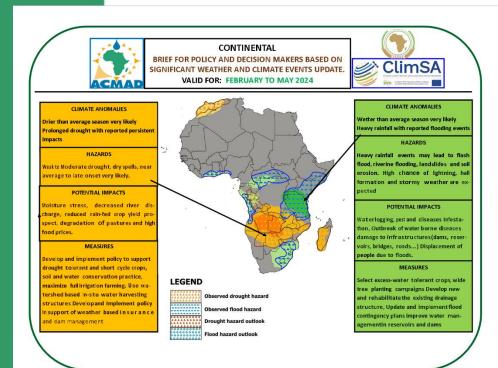
IMPACT BASED FORECAST-ACTIONALBLE INDICATORS

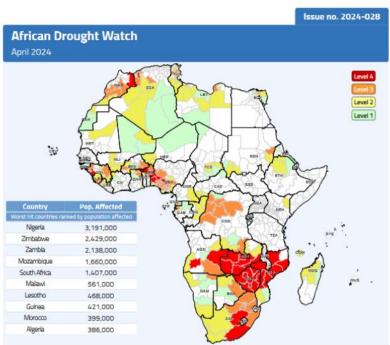
ACMAD-UNOCHA West and Central Africa office



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BRIEF FOR POLICY AND DECISION MAKERS







RECOMMENDATIONS FOR 2023 SUMMER FLOODS PREPAREDNESS. IFRC, OCHA Governments and NGOs to develop proposal for FbF.

Recommendations for flood risk preparedness and response

- Identify existing warning mechanisms and how they work: be aware of alert levels and establish dissemation procedures to ensure that alerts reach people at risk.
- Update risk analysis and strengthen monitoring mechanisms in areas exposed to between "normal" and "above normal" levels of rainfall and flood risk, involving all key players (local authorities, humanitarian and development players, national hydrological and meteorological services, research institutes, etc.). These are as follows:
 - Administrative areas with "medium" or "high" flood risk, located in river basins with expected levels above average;
 - Administrative areas at "high" risk of flooding, located in river basins with average or above-average expected levels;
 - All other areas identified as being at "high" risk of flooding.
- Launch of anticipatory actions to mitigate and prevent the impact of flooding on households, property, livelihoods, and health, by triggering pre-positioned funds.
- Identification of priority multi-sectoral preparedness and response actions to be implemented both immediately and in the event of an emergency, including aspects relating to coordination, needs analysis and information management, anticipation of access-related risks, communication, etc.

- Activation of preparedness mechanisms
 within the various intervention sectors (health,
 food security, protection, education, etc.) and
 reinforcement of contingency stocks available
 at country level, in high-risk areas with a
 high risk of experiencing restricted access
 in the event of an emergency response.
- Capacity building for all players, to ensure effective assistance.
- Strengthen communication and awareness-raising activities with local communities in at-risk areas, in collaboration with local media and existing community-based early warning systems.
- Pre-identify funding opportunities available at country and regional level for emergency preparedness and response activities.

