



**Intra-ACP Climate Services and Related Applications (ClimSA)
Programme: Support to African Centre of Meteorological Applications for
Development (ACMAD)**

**MEETING ON BUILDING PARTNERSHIPS FOR EARLY WARNING FOR
INITIATIVE: A NATIONAL LEVEL EXAMPLE**

**MEETING REPORT
DATE: APRIL 20, 2023
VENUE: ONOMO HOTEL, ABIDJAN -COTE D" IVOIRE**





1- Summary

The aim of the meeting was to provide an opportunity to bring together stakeholders for accelerating implementation of early warning for all initiative in Cote d'Ivoire. The West Africa coastal resilience project was presented with components promoting early warning involving the meteorological services. Environmental hazards are being considered for a climate and health bulletin to be provided by the Meteorological Services in Cote d'Ivoire. The firefighters during the dialogue recognized availability of rainfall forecasts and the need for impact forecast with the expected number of people to be affected by environmental hazards if possible disaggregated by gender.

The Meteorological services of Cote d'Ivoire will strengthen collaboration with the ministry of solidarity in the framework of the national Disaster Risk Reduction (DRR) platform. The need for high resolution climate products and services together with expected percentage of population affected to address local (in departments or sub-regions) needs were highlighted as a key requirement to improve services for the ministry of solidarity.

Upscaling of Nigeria's experience on products and services development and delivery was recognized as a way forward in different countries. The representative of Ethiopia presented malaria, meningitis, forest fire as key hazards to be considered in multihazards early warning engaging all relevant sectors collaborating in the National Framework for Climate Services to be established and operationalized in countries. The secretariat presented the draft Abidjan statement on infrastructure resilience and early warning for all. Following review, a final version was approved by the participants and will be used to engage high level stakeholders.



2- Introduction and adoption of the agenda

One third of the global population including 60% in Africa don't have access or use early warning systems and climate information services to make decision on how to address the risks posed by a changing climate. The ClimSA continental User Interface Platform for DRR supports national establishment and operation of User Interfaces. The meeting is part of efforts by the National Meteorological Service of Cote d'Ivoire and ACMAD through the ClimSA User interface Platform for DRR to establish and operate national early warning and early action system. The purpose of the meeting is to support strengthening of partnerships among stakeholders for early warning for all at national level. The meeting was attended by partners of the meteorological services of Cote d'Ivoire and projects active for early warning, resilience and adaptation in the country. The meeting included presentations and discussions on the partners and their role for implementing Early Warning for all in Cote d'Ivoire. A dialogue session on:

- climate risks/opportunities and needs of national agriculture, water, Disaster risk reduction, water and health sector for early warning;
- Weather and climate services requirements for early warning for all.

The Abidjan declaration by participants was discussed and agreed upon on early warning for all and climate services for resilient infrastructure in Africa.

3- Opening session

The Representative of the PR of Cote d'Ivoire with WMO welcomed participants and mentioned the SODEXAM – ACMAD collaboration to mobilize stakeholders for implementation of Early Warning for all. Representative of the University of Daloa highlighted the need for climate change curriculum in universities and more funding for research contributing to climate change.

The opening remarks by the coordinator of the West African Coastal Resilience project in Cote d'Ivoire, the ministry of agriculture and the department of civil protection appreciated the partnership between the Cote d'Ivoire Meteorological Service and ACMAD and expressed their commitment to contribute to early warning for all initiative.

Remarks by WHO Regional Office representative shared information on WHO commitment to health early warning for all. **He recalled the climate and health Services presented by Nigeria and the interest of WHO to emulate these good practices in other countries** through their national meteorological services and ministries of health. The representatives of the Ministry of animal resources in his remarks mentioned the agro climatological services to reduce impacts of climate change in the sector. He recalled that **high temperatures are favourable for zoonotic diseases. Drought leading to low yields reduces vegetal and animal production.** High temperatures and drought services are required to reduce impacts on diseases and animal production.

The representative of the PR of Cote d'Ivoire with WMO summarized the content of the state of climate for Africa in 2021 highlighting the trends on the number of very hot days in Africa moving from 2 to 10 days per year over the last fifty years. Damages and losses due to climate variability and change accelerated tensions and food crisis. To contribute to the



sustainable development goals and the AU agenda 2063, the NMHSs and partners are committed to improving climate services through national and regional partnerships. He reiterated that Cote d'Ivoire is looking forward to act on the outcomes and declaration from this event on early warning for all and declared the meeting opened.

After a short break, the agenda was presented by the secretariat and adopted by the participants.

4- Sessions reports

4.1 Partnerships and roles for implementation of early warning for all in Cote d'Ivoire

The coastal resilience building project coordinator presented the action plan for Disaster Risk Reduction (DRR) in Cote d'Ivoire. The resilience project contributes to the implementation of the national DRR action plan. It seeks to **strengthen coastal communities** in six countries including Cote d'Ivoire with a pilot site on the Atlantic coast in Grand Laou. The project budget is CFA 15 billion. A component of the project managed by the West African Economic and Monetary Union **coordinates integration across countries**. A component on **strengthening policies and institutions** by creating national observatories, developing favourable legal frameworks for integrated management of coastal areas, executive orders to protect coastal resources.

An important component of the project focuses on **investments on mangroves, community forest, risk assessments** to support early warning. Current early warning is lacking communication network for quick information of the vulnerable population. An additional CFA 20 billion funded by Spain is being devoted to **stabilization of shorelines**. The Government of Cote d'Ivoire and the World Bank provides complementary support.

A local early warning system for floods, landslides, drought, forest fire is available **but with little consideration of coastal hazards**. A national action plan for capacity building was developed.

The partnership for urban resilience was presented involving the Meteorological services and partners including the city council. The national platform for DRR is the overarching coordination mechanism of early warning and DRR related initiatives. The dialogue with partners supported discussions on risks, opportunities and needs of sectors for early warning, the required climate services early warning in the agriculture, water, health and humanitarian sectors.

The hazards in coastal areas include silting which prevent access to boat landing stage on the shorelines.

The environmental health department in the Cote d'Ivoire ministry of health is integrating climate change in the health system. Climate change is expected to be mainstreamed in prevention and cure tools. Environmental hazards are being considered for a climate and health bulletin to be provided by the Meteorological Services in Cote d'Ivoire.

The firefighters during the dialogue recognize availability of rainfall forecasts and the need for impact forecast of the expected number of people to be affected by environmental hazards if possible disaggregated by gender.

The Civil protection directorate of the Abidjan city council recalled the 19 deaths in June 2018 during the night time demonstrating the daily cycle of vulnerability with highest values during the second half of night time. The Cote d'Ivoire Government requested and assessment of the world bank which led to a plan with 4 components on floods resilience:



- Construction of channels;
- Improvement of waste collection;
- Contingency actions
- Preparation for emergencies

Efforts to strengthen youth, policies and other stakeholders to establish contingency plans. The meteorological service of Cote d'Ivoire and the city council established 14 rainfall stations providing data for vigilance service for the city. Request from the health sector articulated at national level starts with health risk mapping. Followed by real time information and a situation room or emergency operations Centre for health.

The ministry of solidarity and fight against poverty presented an early warning system. 126 indicators are collected by the solidarity observatory of the ministry by a network reaching the local level to assess risks and monitor hazards. The network is composed of up to 10 000 extension officers responsible for indicators monitoring at local level. The ministry of solidarity and the firefighters are at the forefront for data collection, communication and early response. The Meteorological services of Cote d'Ivoire will strengthen collaboration with the ministry of solidarity in the national Disaster Risk Reduction (DRR) platform.

The need for high resolution climate products and services together with expected percentage of population affected to address local (in departments or sub-regions) needs were highlighted as a key requirement to improve services of the ministry of solidarity. Vigilance for high flows in river basins, climate information for power management, flood risk bulletin during the season and seasonal forecast at the start of the season are products required. The ministry responsible for gender mainstreaming highlighted the essential need for impact forecast with expected affected population size disaggregated by gender (women, children, youth). The national strategy on gender-climate change, gender-environment are available. The meteorological service has strengthened partnerships with the Department responsible for management of air quality. Air quality risk maps, animal diseases (e.g rift Valley fever) risk map were identified products to be developed between the meteorological service and sectors organizations exposed to the risks.

The representative of international Union of architects explained the role of this community in an urban context. They consult city population, study mobility, analyze green spaces, local city economy, public security in all urban development projects. The architects collaborate with meteorological services and environmental norms to support functional, sustainable and beautiful cities.

The architects support preservation of ancient or historical quarters and areas or buildings in cities. Participants agreed to strengthen partnerships between the meteorological services and university for studies and data exchange. The meteorological service of Niger shared experience with alert codes at local level based on water levels upstream in a river basin. WHO thanked the Cote d'Ivoire meteorological Services for having invited an extended set of stakeholders of the early warning value chain. The ministry in charge of solidarity is a critical stakeholder with a wide network for communication, collecting and analyzing data, assessing risks. WHO representative reiterated the way forward with upscaling of Nigeria's experience on products and services development and delivery. The representative from Ethiopia presented malaria, meningitis, forest fire as key hazards to be considered in multihazards early warning engaging all relevant sectors collaborating in the National Framework for Climate Services to be established and operationalized in countries.

The secretariat presented the draft Abidjan statement on infrastructure resilience and early warning for all. Following review, a final version was approved by the participants.



5. Concluding and Closing remarks

The participants shared their appreciation of the meeting, an early warning system for agriculture was considered fundamental. Research stakeholders recognized to be involved in resilience building projects and fill part of the early warning for all initiative. The ACMAD board chairman and PR of Nigeria with WMO congratulated the organizers for the events recalled the climate services value chain involving producers-translators-Users. He appreciated ACMAD efforts to support products and services development and hope for a similar exercise next time in Nigeria.

In his closing speech, the Representative of the PR of Cote d'Ivoire with WMO thanked ACMAD for choosing Cote d'Ivoire to for the event. He thanked all participants for coming to Cote d'Ivoire, and express the host country pride for hosting the event. He informed the participants that the Abidjan declaration is the road map for implementation of early warning for all in the country. He congratulated all participants who contributed to the achievements during the meeting while fasting and expressed hope for a safe trip back home to everyone.



Annex 1: Programme of the meeting

Building Partnerships for Early Warning for all initiative in Africa: A national level example
Venue: ABIDJAN/Grand BASSAM-COTE D'IVOIRE
Physical and online
Tentative Date: Day 3: April 20 2023, Time: 09h00-18h00 GMT

Chair: Director of Meteorological Services of Cote d'Ivoire

Time (GMT)	Activity	Facilitator
09:00-09:10	Registration	ACMAD
Session 1	Opening Ceremony	Representative of the PR of Cote d'Ivoire with WMO
09:10-09:30	Welcome Remarks by the Representative Director Meteorological Services and PR of Cote d'Ivoire with WMO	
	Remarks by ACMAD DG on behalf of the Board Chairperson	
	Remarks by representative of the University of Daloa -Cote d'Ivoire	
	Remarks by WHO Regional Office	
	Remarks by representative of the ministry of Agriculture	
	Opening Speech by DG SODEXAM	
09:30-09:40	Group Photo	
Session 2	Partners and roles for Implementation of Early Warning for all in Cote d'Ivoire	UNDP country office
09:40-09:50	West African Coastal resilience project in Cote d'Ivoire	
09:50-10:10	Role of the Ministry of Agriculture for Early warning for all	
10:10-10:30	National Department of Civil Protection	
10:30-10:50	National Meteorological services	
10:50-11:00		
11:00-12:30	Dialogue on: <ul style="list-style-type: none">- climate risks/opportunities and needs of national agriculture, water, DRR and health sectors for early warning- Weather and Climate Services requirements for early warning for all	
12:30-13:00	Abidjan Declaration on Early warning and climate services for infrastructure resilience in Africa	
Session 5	Closing statements	
13:00-13:30	Ministry of agriculture, University of Daloa and SODEXAM	



Annex 2: List of participants

CENTRE AFRICAÏN POUR LES APPLICATIONS DE LA METEOROLOGIE AU DEVELOPPEMENT

AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT

Institution Africaine parrainée par la CEA et l'OMM

User Interface Platform for Disaster Risk Reduction with emphasis on the Infrastructure Sector, and Early warning for all Stakeholders Workshop

ONOMO HOTEL, Abidjan-COTE D'IVOIRE

HYBRID (Physical and online)

April 19-20, 2023

LOCAL PARTICIPANTS ATTENDANCE SHEET /
LISTE DE PRÉSENCE DES PARTICIPANTS VENANT DE LA COTE D'IVOIRE

DATE : 20 April, 2023

CENTRE AFRICAÏN POUR LES APPLICATIONS DE LA METEOROLOGIE AU DEVELOPPEMENT

AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT

Institution Africaine parrainée par la CEA et l'OMM

N°	FULL NAME / NOM COMPLET	INSTITUTION	CONTACT (Tel, Email)	SIGNATURE
1	ATHOYA TOPE LEON CE PATRONE QUENTIN	Croix-Rouge de COTE D'IVOIRE	0767479875 tope4286@gmail.com	
2	KOFFI Animam Paul Daanyeh	Conseil Regional SUD-COINTE	0707512369 animamp@gmail.com	
3	CAPTAINNE NIGUETA AMOR	GERM	0103361177 0709137955 mguettaan-01@yahoo.fr	
4	Gbadje Beugbo Sfwestre	ONG La CIBES	0708284386 onglacibes@yahoo.fr	
5	AMIN DZAILA ep's GBO	ANADER	0170369160 aminodzaila@gmail.com	



CENTRE AFRICAÏN POUR LES APPLICATIONS DE LA METEOROLOGIE AU DEVELOPPEMENT

AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT

Institution Africaine parrainée par le CEA et l'OMM

African Institution under the aegis of UNECA and WMO

N°	FULL NAME / NOM COMPLET	INSTITUTION	CONTACT (Tel, Email)	SIGNATURE
6	N'ZUE KOUAKOU Augustin	SODEXAM/DMN	0708 98 58 24 augustin.nzue@ sodexam.ci	
7	N'GUESSAN FULGENCE	SODEXAM/DMN	0757 427369 fulgence.nguessan@ sodexam.ci	
8	YAPO SEKA LOUIS HERMANN	CIAPOL	0709467765/0141339287 sekalouis@gmail.com	
9	KOUADIO ZILE ALEX	Université Jean Boungoma Guéde Kouadio	0707 49 53 59 lezile2000@yahoo.fr	
10	AKAFFOU ATSE Casimir Eric	Ministère des Ressources Animales et Halieutiques	0707 78 80 57 akaff3000@yahoo.fr	

CENTRE AFRICAÏN POUR LES APPLICATIONS DE LA METEOROLOGIE AU DEVELOPPEMENT

AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT

Institution Africaine parrainée par le CEA et l'OMM

African Institution under the aegis of UNECA and WMO

N°	FULL NAME / NOM COMPLET	INSTITUTION	CONTACT (Tel, Email)	SIGNATURE
11	EHUI TIEMELE RAPHAEL	ONEG (Primature)	0707702825 ehuit.raphael@gmail.com	
12	Da koffi Claude François	MNHP/CMU/ DHP/E	0777432705 koffi.claude@ mhp.ci	
13	Kindia Soni Narcisse	SODEXAM/ DMN	0707274927 narcisse.kindia@ sodexam.ci	
14	DSE Kouakou Bernard	SODEXAM/ DMN	bernard.dse@sodexam.ci	
15	Eugène Bilé	Min. de la Solida- rité et de la lutte contre la Pauvreté CSCS	0789957989 eugeneb.cscs@gmail.com	



Intra ACP Climate Services and related Applications /ACP/FED/038-833 11th EDF



A project led & implemented by the African Centre of Meteorological Applications for Development

CENTRE AFRICAIN POUR LES APPLICATIONS DE LA METEOROLOGIE AU DEVELOPPEMENT		AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT		
Institution Africaine parrainée par la CEA et l'OMM		African Institution under the aegis of UNECA and WMO		
N°	FULL NAME / NOM COMPLET	INSTITUTION	CONTACT (Tel, Email)	SIGNATURE
16	ACHAYE VICTOR	MEMINADER DD MTA	0709753768 achayevictor@yahoo.fr	
17	BOURGET Jean Francois	CE-ENERGIES	0777 303064 jfbourget@energies.4	
18	Akhbat Bertrand Hervé	district Autonome d'Antananarivo	01-03-32-35-65 akhbat@optima.mg	
19	KEA Kouadio Kévin	ONG Sécurité Environnementale	05516009	
20	TO BI Tah Jean-Luc	MEMINADER DD Boto	0758804519 jeanluctoh@gmail.com	

CENTRE AFRICAIN POUR LES APPLICATIONS DE LA METEOROLOGIE AU DEVELOPPEMENT		AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT		
Institution Africaine parrainée par la CEA et l'OMM		African Institution under the aegis of UNECA and WMO		
N°	FULL NAME / NOM COMPLET	INSTITUTION	CONTACT (Tel, Email)	SIGNATURE
21	Kouko Gnaleba Guy Roland	DGRE/MINEF	0773997922 rolandkouko@gmail.com	
22	SOW Hama	MINHAS/DH	0707055800 sowhama@yahoo.fr	
23	Ahoua Assandé	CNRA	01 01 94 36 84 ahoua@yahoo.fr	
24	EZAN KOUJO	MEMINADER	0707650555 delaguacoujo@gmail.com	
25	TATA Raymond	MIRAH / DR sassandva	0708495294 tataraymond@yahoo.fr	



Intra ACP Climate Services and related Applications /ACP/FED/038-833 11th EDF



A project led & implemented by the African Centre of Meteorological Applications for Development

CENTRE AFRICAÏN POUR LES APPLICATIONS DE LA MÉTÉOROLOGIE AU DÉVELOPPEMENT



AFRICAN CENTRE OF METEOROLOGICAL APPLICATIONS FOR DEVELOPMENT

Institution Africaine parrainée par la CEA et l'OMM

African Institution under the aegis of UNECA and WHO

N°	FULL NAME / NOM COMPLET	INSTITUTION	CONTACT (Tel, Email)	SIGNATURE
37	Chantal Bogathi epse Naulmbien	SO DEXAM	Chantal_bogathi@ sodexam.ci	
38	Diarrasouly Sindou	SO DEXAM	sindou.diarrasouly@ sodexam.ci	
39	Guilibaly Sié Yaya	SO DEXAM		
40				
41				



Annex 3: ABIDJAN STATEMENT

ABIDJAN STATEMENT

Early Warnings for All Initiative and Climate information Services for infrastructure resilience in Africa

We, as the participants in the Climate Services for infrastructure resilience and Early Warning for All meetings held on 19 and 20 April 2023 in Abidjan, Cote d' Ivoire,

Noting that the Early Warning for All initiative Action Plan released by WMO at COP27 calls for strengthening disaster risk knowledge, observations, forecasting and warning, dissemination and communication, disaster preparedness and response which are pillars of this initiative;

Noting the devastating economic, social, and environmental impacts being incurred due to weather, climate, water and related disasters in particular on the current infrastructure supporting Africa's sustainable development;

Noting that disasters are expected to increase in frequency and severity as a consequence of climate change;

Noting that early warning systems and climate services for sustainable development are effective means to save lives and mitigate losses and damages brought by severe weather, climate and environmental hazards;

Recognizing the giant gaps in early warning systems construction and implementation in African countries with up to 60% of the population lacking access to early warning and climate services;

Recognizing the significant progress in artificial intelligence, Remote sensing/ satellite technology. digital transformation, and the vital importance of sharing such progress to support better early warning and climate information services;

Commit to foster exchanges between early warning stakeholders at local, national, regional and continental levels;

Welcome significant suggestions and contributions proposed by participants on accelerating, establishing and operating Early Warnings for All, climate information services for infrastructure resilience user interface;

Appreciate the efforts of the African Union Commission, the World Meteorological Organization, the United Nations Economic Commission for Africa, the African Centre of Meteorological Applications for Development, International Union of Architects, other



international organizations and stakeholders to achieve the expected results of Early Warnings for All supporting the Africa MultiHazards Early Warning and Action System as well as resilient infrastructure for sustainable development in Africa;

Call on all parties in Africa and abroad to support the Early Warnings for All, the Climate information services and applications and work together to build a future with resilient infrastructure and communities accessing and using early warnings across Africa;

Affirm African National Meteorological and Hydrological Services essential role as the authoritative voice for early warning information production and dissemination, while appreciating ongoing activities undertaken by stakeholders in the private sector, humanitarian and other climate sensitive sectors;

Call for resource mobilization to promote customized multi-hazard impact based early warning systems in an innovative, comprehensive and synergistic manner to enhance the safety and prosperity in Africa;

Recognize that engineers, architects, scientists, town planners, infrastructure practitioners and early warning stakeholders including civil society, public and private sectors should be invited to decision-making tables at the outset to optimize infrastructure planning, engineering and design enabling improved climate resilience and reduced disasters impacts during operational phase;

Welcome leaders particularly in cities, engineers, architects and early warning stakeholders to jointly strengthen the Coalition for Resilient Infrastructure, Multi-lateral Development Banks and development/climate financing institutions and capital markets to raise standards and funding, and operationalize policies for implementation of climate resilient infrastructure in Africa;

Encourage the full engagement of relevant stakeholders, including the private sector, by enhanced training and guidance for the public, to strengthen interpretation of and response to early warning information;



**Intra ACP Climate Services and related
Applications /ACP/FED/038-833 11th EDF**



A project led & implemented by the
African Centre of Meteorological
Applications for Development

Promote the cross-sectoral and interregional cooperation and exchanges in Africa on knowledge management, technology transfer and capacity building with other alliances and platforms, to establish an early warning system with full coverage for enhanced disaster risk reduction.

Done in ABIDJAN, on April 20, 2023

President of WMO Regional association I

President of the African Architects Union

Chairman of the ACMAD Board of Governors

Director General of SODEXAM

President of the Pan African Farmers Organization