

VFDM Project: "Integrating Flood and Drought Management and Early Warning for Climate Change Adaptation in the Volta Basin"

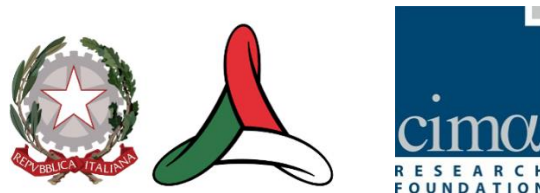
Three days training on myDewetra-VOLTALARM, impact-based forecast and bulletin procedures - Concept note

December - 2022

Project Executing partners



With the technical support of:



1. Context and rationale

The World Meteorological Organization (WMO), a specialized agency of the United Nations, the Volta Basin Authority (ABV) and the Global Water Partnership in West Africa (GWP-WA) are implementing in consortium the project titled “ [Integrating Flood and Drought Management and Early Warning for Climate Change Adaptation in the Volta Basin \(VFDM\)](#) ”. The VFDM project

activities, started in June 2019, are continuing and will be completed at the end of June 2023. The VFDM project is funded by the Adaptation Fund.

The implementation of the VFDM project involves the active participation of national agencies (in charge of meteorology, hydrology, water resources management, water protection, civil protection, etc.), regional institutions and WMO partners, such as CIMA Research Foundation, Italian Civil Protection Department, UNITAR / UNOSAT, IUCN and Knowledge and Innovation(K&I) Etc.

As part of the implementation of the VFDM project, it is planned to develop impact-based flood forecasting products for the Volta Basin by integrating the risk profile with the Flood-PROOFS (Flood PRObabilistic Operative Forecasting System) flood forecast chain. The system is based on the open-source hydrological model CONTINUUM, developed by the CIMA Foundation, and it will be integrated into the myDewetra-VOLTALARM platform. It is also planned to implement and customise the Bulletin tool, integrated in the VOLTALARM-MyDewetra platform, based on the roles, procedures and requirements of the different national and regional stakeholders. These activities are carried out by actively involving hydrologists, weather forecasters and civil protection experts from national and regional stakeholders in the different stages of implementation through local capacity building trainings to ensure full understanding of the process and its long-term sustainability.

This concept note is prepared to provide details on the objectives, expected results, modality and agenda of the first training on impact-based forecasting, roles and procedures for bulletin development in the myDewetra-VOLTALARM platform.

2. Objectives

The regional face-to-face training will provide the theoretical knowledge on impact-based forecasting and the opportunity to discuss and define among all stakeholders the roles and procedures for the development of flood and drought warning bulletins through the myDewetra-VOLTALARM platform. It will also be an opportunity to increase and strengthen the practical experience needed by the hydrometeorological and civil protection service providers to make the best use of the different products and functionalities already available in the myDewetra-VOLTALARM EWS platform (currently being operationalised).

Finally, the training will also enable different types of institutions and actors to collaborate and work together for the monitoring and forecasting of hydrometeorological events and for providing warning services.

Three specific objectives are pursued through this activity:

- 1) To provide theoretical and practical knowledge of impact-based forecasting products;
- 2) To define with a participatory approach with all stakeholders the modalities for the elaboration of bulletins and the exploitation of the Bulletin tool integrated in the myDewetra-VOLTALARM platform;
- 3) To strengthen the practical knowledge of the products and tools available in the MyDewetra-VOLTALARM platform for its exploitation in the daily services and activities of stakeholders.

3. Expected outputs

- 1) Trained participants have increased their theoretical and practical knowledge and understanding of impact-based hydrometeorological forecasting systems and products
- 2) Trained participants have increased their theoretical knowledge of the possibilities of operation and configuration of the Bulletin tool integrated in the myDewetra-VOLTALARM platform and have agreed on the roles and procedures for the elaboration of flood and drought warnings in the Volta basin
- 3) Participants have strengthened their knowledge and skills in using the myDewetra-VOLTALARM platform and can apply them in their daily activities related to flood and drought monitoring, forecasting and early warning services
- 4) New staff members joining the respective National services will be able to acquire the required knowledge and skills (through the trained participants) for flood or drought monitoring, forecasting or early warning services through MyDewetra-VOLTALARM EWS platform.

4. Mode of training

The regional face-to-face training on impact-based forecasting, warning bulletin procedures and the myDewetra-VOLTALARM EWS will take place on 25-26-27 January 2023 in Lomé, Togo. Simultaneous interpretation from English into French and vice versa will be provided to participants.

In addition, it will be possible to connect virtually to the MyDewetra-VOLTALARM training, using the zoom link below (for participants who are unable, for unforeseeable reasons, to join the workshop physically):

<https://us06web.zoom.us/j/95018035178?pwd=VWM3eWp5MzBVMHdUcVZTR3NUSDdlZ09>

Password : Volta

5. Agenda

Day 1 – 25th January 2023 from 8:30 am to 5:00 pm

Time	Discussion points/Topics	Responsible
8:30 - 9:00 am	Participants registration	VBA
9:00 - 9:45 am	Opening ceremony	VBA NFS, VBA, WMO, CIMA, VFDM team

9:45 - 10:15 am	Coffee/Tea break	
10:15 am – 10:45 am	Workshop introduction session	VBA, WMO, VFDM team
10:45 am - 1:00 pm	Session 1 - Introduction to VOLTALARM EWS	CIMA
1:00 pm – 2:00 pm	Lunch	
2:00 pm – 4:30 pm	Session 2 – Impact-based forecast	CIMA
4:30 pm - 5:00 pm	Closing of Day 1	VBA, VFDM team

Day 2 – 26th January 2023 from 8:30 am to 5:00 pm

Time	Discussion points/Topics	Responsible
8:30 - 9:00 am	Quick recap day 1 + Q&A	VBA
9:00 - 10:30 am	Session 2 – Impact-based forecast	CIMA
10:30 - 11:00 am	Coffee/Tea break	
11:00 am – 1:00 pm	Session 3 – CONTINUUM hydrological model and the flood forecasting chain Flood-PROOFS	CIMA
1:00 pm – 2:00 pm	Lunch	
2:00 pm – 4:30 pm	Session 3 – CONTINUUM hydrological model and the flood forecasting chain Flood-PROOFS	CIMA
4:30 pm - 5:00 pm	Closing of Day 2	VBA, VFDM team

Day 3 – 8th July from 8.30 am to 1.30 pm

Time	Discussion points/Topics	Responsible
8:30 - 9:00 am	Quick recap day 1 + Q&A	VBA
9:00 - 10:30 am	Session 4 – Warning bulletins	CIMA
10:30 - 11:00 am	Coffee/Tea break	
11:00 am – 12:30 pm	Session 4 – Warning bulletins	CIMA
12:30 pm – 1:00 pm	Session 5 – Way forward	CIMA
1:00 pm - 1:30 pm	Certificates and workshop closing ceremony	VBA, VFDM team
1:00 pm – 2:00 pm	Lunch	

6. Candidate's requirement and names

The two-day and half face-to-face training is organized mainly for the professionals working in the Regional, National and Local agencies in the field of flood and drought monitoring and forecasting services as well as involved in decision making and dissemination of the early warning services as mandated by the National legislation and laws.

It is highly recommended to have the participation of experts already involved in previous workshops on the myDewetra-VOLTALARM platform and identified as technical focal points for the implementation of new monitoring and forecasting products and operationalization of the VOLTALARM platform.

Directors of National Hydrological, Meteorological services, Civil protection and Water Resources agencies will provide one participant name from their institutions who will be attending the session:

Country Name	Agency Name	Participant names	Designation/Position	Email address
Benin	DG-Eau			
	Météo Benin			
	ANPC			
Burkina Faso	ANAM			
	DGRE			
	DEIE			
	DGPC			
Cote d'Ivoire	SODEXAM			
	DH			
	DPARE			
	ONPC			
Ghana	HSD			
	GMet			
	NADMO			
	WRC			
Mali	DNH			
	Mali Météo			
	DGPC			
Togo	DRE			
	DGMN			
	ANPC			
AGRYHMET	One person			
WASCAL	One person			

7. For additional information please write to:

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