Impact bulletin for extreme precipitation and floods in the Volta basin

#2025-043

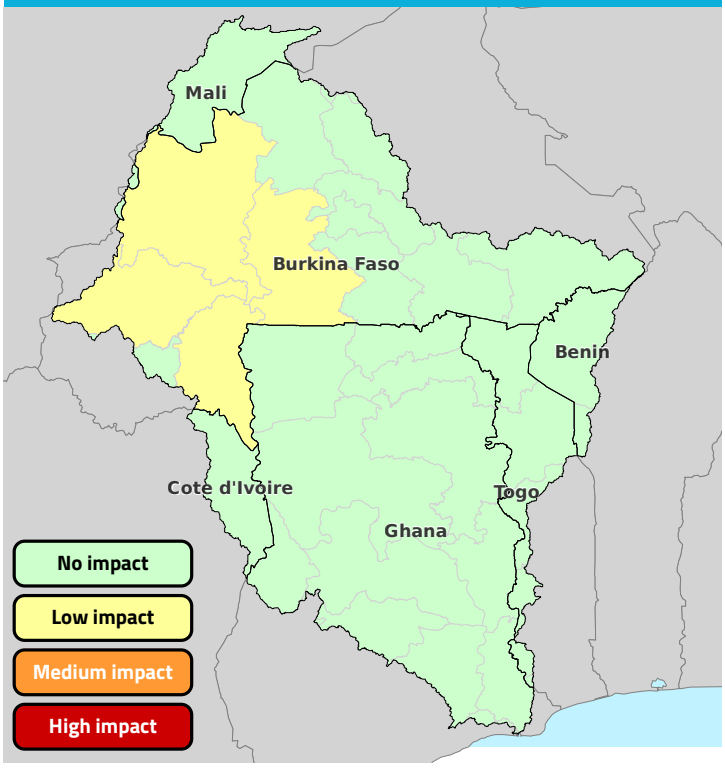
Estimated number of people potentially affected by extreme precipitation and river floods

Valid from 30/09/2025 to 04/10/2025

Impact from Extreme precipitation

Impact from River Floods

Combined assessment of precipitation and floods



VBA outlook

The forecasts of the impacts of floods in the Volta basin show a low impact in the Bankui, Sourou, Nando, Djôrô and Guiriko regions, in the Burkinabe national portion, during the period from September 30 to October 4, 2025, during the period from September 30 to October 4, 2025.

Impact-based forecasts are derived from automated analysis.

Detailed outlook on extreme precipitation for the next 5 days *#2025-043*

Valid from 30/09/2025 to 04/10/2025

Impact from Extreme precipitation

None

Agence Nationale de la Météorologie (METEO-BENIN)

Impact-based forecast are derived from automated analysis.

Agence Nationale de la Météorologie (ANAM)

Impact-based forecast are derived from automated analysis.

Societé d'Exploitation et de Developpement Aéroportuaire, Aéronautique et Météorologique (SODEXAM)

Impact-based forecast are derived from automated analysis.

Ghana Meteorological Agency (GMET)

Ghana's portion of the Volta Basin over the next five (5) days is forecast to receive 10-20 mm of rainfall across parts of the Ashanti region (Akuma, Sasebonso and Aframso) with minimal impacts expected. The rest of the basin is likely to record low rainfall with no significant impacts.

Agence Nationale de la Météorologie (MALI-METEO)

Impact-based forecast are derived from automated analysis.

Agence Nationale de la Météorologie (ANAMET)

Impact-based forecast are derived from automated analysis.

Detailed outlook on river floods for the next 5 days *#2025-043*

Valid from 30/09/2025 to 04/10/2025

Impact from River Floods

Low impact Burkina Faso (Boucle du Mouhoun, Centre-Ouest, Hauts-Bassins, Sud-Ouest)

Direction Générale de l'Eau (DG Eau)

Impact-based forecast are derived from automated analysis.

Direction Générale des Ressources en Eau (DGRE)

The hydrological forecast from Continuum-Hype—WRF and GloFAS models for the next five days in the Volta basin in Burkina Faso reveals weak river flow dynamics. Simulated hydrographs show generally **low flows in the Mouhoun River, limiting the risk of flooding in the Bankui, Nando**, Djôrô and Guiriko areas. **This situation, although not capable of causing floods, is likely to cause floods if the rainy situation evolves, disrupting infrastructure (roads, bridges) and agricultural areas.** Vigilance is required, as the occurrence of **rapid floods** or **localized overflows** could amplify

socio-economic impacts.

Direction de l'Hydrologie (DH)

The forecasts for the next 05 days in the Ivorian portion of the basin indicate very low water levels at all the stations.
Overall, there will be no risk of impact.

Ghana Hydrological Authority (HYDRO)

There shall be no impact from inundation for the next five (5) days in the country. Water levels across the country are expected to drop marginally for the period. Inundation of surrounding communities in the country is therefore not expected

Direction Nationale de l'Hydraulique (DNH)

Impact-based forecast are derived from automated analysis.

Direction des Ressources en Eau (DRE)

Impact-based forecast are derived from automated analysis.

Methodological note on impact evaluation

Regions are color-coded into four impact classes based on increasing rates of population affected, from level 1 (no impact, green) to level 4 (high impact, red).

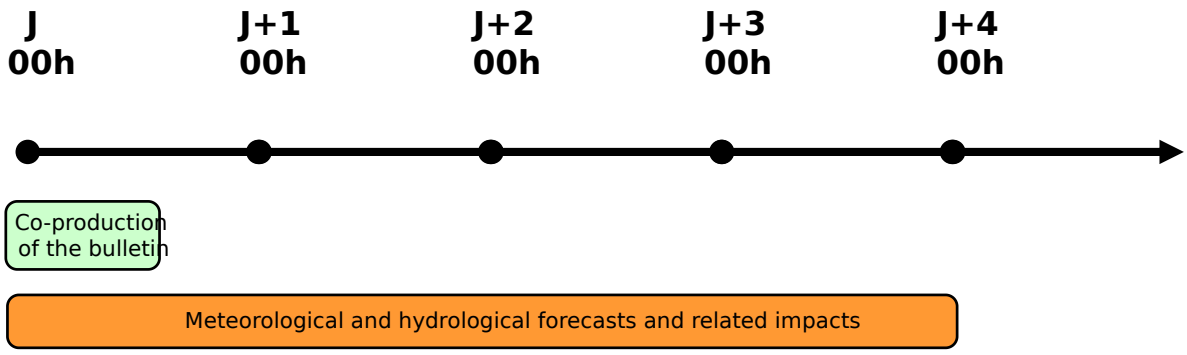
Impacts are estimated in cross-referencing information on the hazard, exposure, vulnerability and adaptive capacity. Hazard classes are defined for each hazard based on threshold values from the statistical analysis of past events or reference values from the literature.

The multi-hazard assessment map shows the highest level of impact between the hazards considered according to the hydro-meteorological conditions forecast for the next 5 days.

Impact Level	Value Impact
Green: No Impact	0 people
Yellow: Low Impact	< 0.5% admin unit pop
Orange: Medium Impact	< 5% admin unit pop or > 10k people
Red: High Impact	> 5% admin unit pop or > 50k people

Procedure and acknowledgments

The bulletin is issued twice a week, Tuesday and Friday, at 1:30 p.m. GMT thanks to the co-production work between the meteorological and hydrological agencies of the 6 riparian countries and the Volta Basin Authority (VBA). It provides a level 1 administrative unit scale overview of the population impact forecast for the next 5 days related to forecasted heavy rain and riverine flooding conditions.



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This bulletin for the Volta basin is produced by the VBA with the technical and scientific assistance of the agencies in charge of meteorology and hydrology of the 6 riparian countries (Benin: DG-Eau, Météo Bénin; Burkina Faso: DGRE, ANAM; Cote d'Ivoire: DH, SODEXAM; Ghana: GHA, GMet; Mali: DNH, Mali Météo; Togo: DRE, DGMN), WMO, GWP-WA, CIMA Foundation with the support of the Adaptation Fund.