



Impact bulletin for extreme precipitation and floods in the Volta basin

#2025-045

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

Valid from 07/10/2025 to 11/10/2025

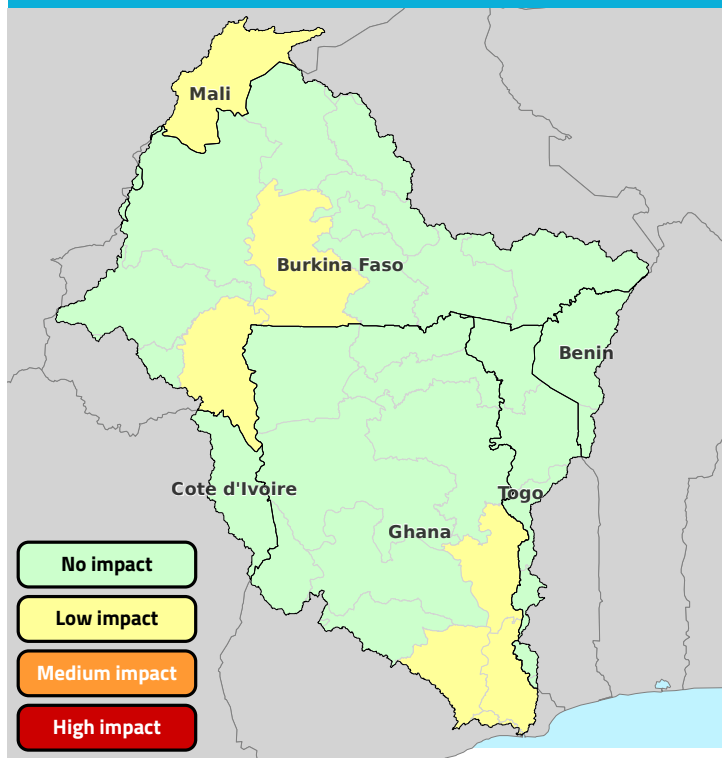
Impact from Extreme precipitation



Impact from River Floods



Combined assessment of precipitation and floods



VBA outlook

The combined evaluation of the forecasts of the impacts of heavy rains and floods in the Volta basin, shows a low impact in the Djoro and Nando regions in the Burkinabe national portion, during the next 5 days. This situation could lead to floods, disrupt infrastructure (roads, bridges) and agricultural areas.

Moreover, a low impact is expected in the Eastern (Begoro, Somanya), Oti (Begoro, Somanya), Oti (Kadjebi, Nkwanta), Volta (Ho, Hohoe) and Greater Accra regions in the Ghanaian national portion as well as in the Mopti region, in the Malian national portion, during the same period.

Impact-based forecasts are derived from automated analysis.



Detailed outlook on extreme precipitation for the next 5 days

#2025-045

Valid from 07/10/2025 to 11/10/2025

Impact from Extreme precipitation

Low impact

Burkina Faso (Centre-Ouest, Sud-Ouest), Mali (Mopti), Ghana (Eastern, Greater Accra, Oti, Volta)



Agence Nationale de la Météorologie (METEO-BENIN)

Light to moderate rains are expected in the next five days in the Beninese portion of the Volta basin. These rains will have no impact on the population.



Agence Nationale de la Météorologie (ANAM)

Impact-based forecast are derived from automated analysis.



Société d'Exploitation et de Développement Aéroportuaire, Aéronautique et Météorologique (SODEXAM)

Impact-based forecast are derived from automated analysis.



Ghana Meteorological Agency (GMET)

Over the next five days, moderate rainfall totaling 30–50 mm is expected across the southeastern parts of the Ghana portion of the Volta Basin, particularly in areas such as Volta (Ho, Hohoe), Eastern (Begoro, Somanya), and Oti (Kadjebi, Nkwanta). These areas are likely to experience low impact from the rainfall. The remaining parts of the basin are forecast to receive light rainfall (below 30 mm) during the period, with no significant impacts anticipated.



Agence Nationale de la Météorologie (MALI-METEO)

Impact-based forecast are derived from automated analysis.



Agence Nationale de la Météorologie (ANAMET)

Over the next five days, light rains will be recorded on the Togolese portion of the Volta basin. Cumulative rainfall will have no impact on the population of the area.





Detailed outlook on river floods for the next 5 days

#2025-045

Valid from 07/10/2025 to 11/10/2025

Impact from River Floods

Low impact

Burkina Faso (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 river, limiting the risk of flooding. However, the rainfall forecast for the coming days indicates that the Djôrô region could have a low impact around areas adjacent to the Mouhoun River. **This situation is therefore likely to cause floods, 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)

Impact-based forecast are derived from automated analysis.



Ghana Hydrological Authority (HYDRO)

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



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).

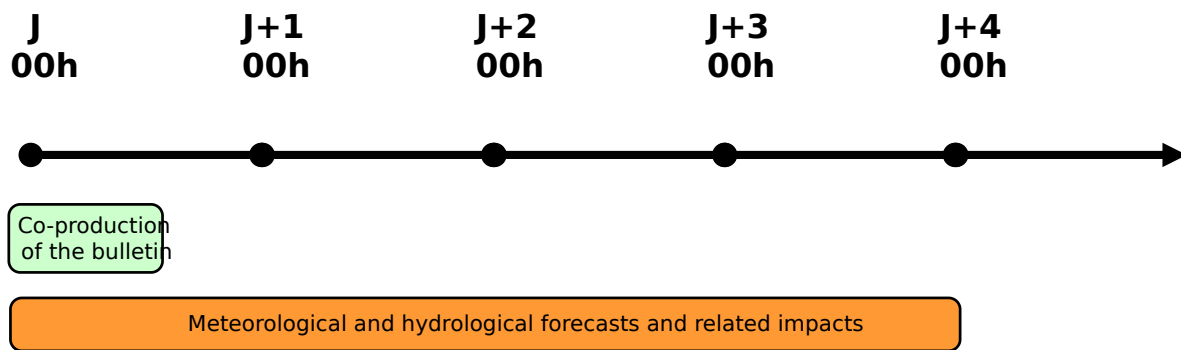
Impacts are estimated in cross-referencing information on the hazard, exposure, vulnerability and adaptive capacity. Hazard classes are defined for each hazard based on threshold values from the statistical analysis of past events or reference values from the literature.

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.



Contact to: secretariat.abv@gmail.com

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.

