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## Conference Updates

All forms and relevant information will be posted on the conference website and updated regularly. Please contact the Conference Secretariat for all other correspondence and information.

## Conference Secretariat

### ICWFM-2025

Institute of Water and Flood Management (IWFM)

Bangladesh University of Engineering and Technology (BUET)

Dhaka-1000, Bangladesh

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Website: <https://www.icwfm2025.com/>



# 10<sup>th</sup> International Conference on Water and Flood Management

With special focus on

Water and Ecosystem Conservation for Climate Resilience

22-24 February 2025

Dhaka, Bangladesh

## Organized by



পানি ও বন্যা ব্যবস্থাপনা ইন্সটিটিউট

Institute of Water and Flood Management (IWFM)

Bangladesh University of Engineering and Technology (BUET)

## Sponsors

Center for Environmental and Geographic Information Services (CEGIS)

Dhaka Water Supply and Sewerage Authority (Dhaka WASA)

Embassy of the Kingdom of the Netherlands (EKN)

Institute of Water Modelling (IWM)

International Training Network Centre (ITN-BUET)

## In Partnership with

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Bangladesh Bridge Authority (BBA)

Bangladesh Meteorological Department (BMD)

Bangladesh Water Development Board (BWDB)

Bangladesh Water Partnership (BWP)

Local Government Engineering Department (LGED)

River Research Institute (RRI)

Roads and Highways Department (RHD)

Water Resources Planning Organization (WARPO)

Background and Purpose

The International Conference on Water and Flood Management (ICWFM) has been held biennially since 2007 by the Institute of Water and Flood Management (IWFM) of Bangladesh University of Engineering and Technology (BUET), and ICWFM-2025 is the tenth event. Water management in general, and flood management in particular, is an interdisciplinary field that requires integrated knowledge from diverse fields such as hydrology, hydraulics, morphology, atmospheric science, climate, environmental pollution, ecosystem, agriculture, disaster, vulnerability, risk, gender, livelihood, and poverty. As physical and socioeconomic risks continue to change and environmental degradation becomes increasingly apparent because of climate change and anthropogenic interventions, integrated approaches to analyzing these processes and their interactions are increasingly gaining traction in order to develop and implement comprehensive and sustainable strategies to mitigate and adapt to the impacts.

This conference aims to serve as a common platform for delving into the aforementioned issues through a holistic lens. The central theme of ICWFM-2025 is set as “**Water and Ecosystem Conservation for Climate Resilience**”. As echoed in international efforts, such as the UN Decade on Ecosystem Restoration, conserving and restoring water and ecosystems, as a holistic approach, have crucial roles in combating climate change, reversing environmental degradation, enhancing biodiversity, and fostering resilience. Afforestation and reforestation (including mangroves), restoring wetlands and river-floodplain connectivity, and sustainable agricultural practices provide multiple ecosystem services and synergistic benefits, including carbon sequestration, rejuvenation of fisheries and other ecosystems, buffering flood and storm surge impacts, and reducing saline intrusion and coastal erosion. Besides, there are many other ecological, cultural and socio-economic benefits that contribute to enhanced livelihood and human wellbeing, such as the provision of food, energy and clean water, support to livelihoods and biodiversity, and sites of spiritual and cultural importance. It is now high time we took a closer look at how we can integrate conservation and restoration of water and ecosystems into appropriate management measures and thus enhance climate resilience.

Themes

Hydrometeorological Hazards and Risk

- ◆ Vulnerability and resilience in relation to water-related hazards
- ◆ Integrated approaches to hazard and risk management
- ◆ Disaster risk assessment and decision support systems
- ◆ Nature-based solutions in disaster risk management
- ◆ Impact-based forecasting and anticipatory actions
- ◆ Artificial intelligence (AI) and machine learning (ML) to improve disaster preparedness and resilience
- ◆ Web-based information systems for productivity and resource management
- ◆ Observed variability and Trends in Extreme Climate Events
- ◆ Climate change impacts on hydrology and water resources
- ◆ Harmonizing autonomous and planned risk reduction and adaptation strategies
- ◆ Transformative adaptation and climate resilient development

Rivers, Coasts, Estuaries and Deltas

- ◆ River dynamics and restoration
- ◆ Hydro-morphology and coastal erosion: measurements, simulation and management
- ◆ Riverine, coastal and estuarine processes
- ◆ Coastal and estuarine water quality and nutrient loads: implications for ecosystem
- ◆ Riverine and coastal hazards: erosion, sedimentation, salinization, storm surge, and fluvio-tidal flooding
- ◆ Nature-based solutions for coastal protection
- ◆ Systems approach in managing coastal river-floodplain systems
- ◆ Adaptive delta management
- ◆ Coastal delta interventions, synergies and trade-offs

Water Infrastructure and Resilient Development

- ◆ Landscape modification and flow regime changes
- ◆ Sustainable environment and infrastructure development
- ◆ Climate-resilient infrastructure
- ◆ Challenges and constraints in asset management and infrastructure maintenance
- ◆ Shore protection, port structure and navigation
- ◆ Integrating grey, green and blue infrastructure
- ◆ Blue economy
- ◆ Restoration and rehabilitation of watercourses, wetlands, river-floodplain connectivity

Water and Livelihood Security

- ◆ Water security risks
- ◆ Water conservation, water use efficiency and productivity
- ◆ Management of surface water and groundwater
- ◆ Agricultural water management
- ◆ Climate resilient agriculture and enhancing food production
- ◆ Salinity resilience and sustainable crop production
- ◆ Sustainable fisheries and water management
- ◆ Water, Sanitation and Hygiene
- ◆ Water entrepreneurship
- ◆ Gender in water management practices
- ◆ Participatory and adaptive approaches to water management
- ◆ Sustainable livelihoods and livelihood security
- ◆ Integrated assessment of social-ecological systems for sustainable livelihoods

Ecosystems and Environment

- ◆ Water restoration and sustainable use
- ◆ Water pollution and ecosystem degradation
- ◆ Water environment protection and management of aquatic habitats
- ◆ Functions and values of delta/ coastal ecosystems and their trends
- ◆ Sustainable use of floodplain and coastal resources
- ◆ Wetlands restoration and biodiversity
- ◆ Co-benefits of conservation and restoration of water and ecosystem
- ◆ Water-Energy-Food (WEF) Nexus for sustainable development
- ◆ Ecosystem services, livelihood, and human well-being

Water Governance

- ◆ Mainstreaming Climate Change Adaptation (CCA), Sustainable Development Goals (SDGs) and Disaster Risk Reduction (DRR) in development planning
- ◆ Joint achievements of SDG, DRR and CCA goals and targets
- ◆ Multi-sectoral and multi-objective water resources/ delta planning
- ◆ Prioritizing water investments and interventions
- ◆ Integrated project/ intervention appraisal framework
- ◆ SDG synergies and trade-offs
- ◆ Joint achievements of SDG, DRR and CCA goals and targets
- ◆ Transboundary water conflicts and opportunities for cooperation in common/ mutual interests
- ◆ Institutional integration for transboundary water management
- ◆ Basin wide management of transboundary rivers

Dates and Venue

The 10th International Conference on Water and Flood Management (ICWFM-2025) has been scheduled to take place at the CIRDAP International Conference Center (CICC) in Dhaka, Bangladesh from February 22nd to 24th, 2025. CICC is a multi-purpose convention facility located at Topkhana Road, Dhaka. Detailed instructions will be announced on the ICWFM- 2025 website.

Website: <https://www.icwfm2025.com/>

Official Language

The official language of the conference is English.

Extended Abstract Submission and Publication

Extended abstracts (2 pages; maximum 800 words) on the conference topics are invited from interested authors. The detailed procedure of abstract submission is available on the conference website. An individual can be the lead author of a maximum of two papers. Pre-conference proceedings will be published based on the accepted abstracts of the registered authors. Selected papers from the conference will be published as book chapters by Springer Nature.

Important Dates

15 July 2024	Abstract submission opens
30 September 2024	Deadline for extended abstract submission
31 October 2024	Notification of abstract acceptance
05 November 2024	Registration begins
05 December 2024	Deadline for conference registration

Registration Fees for Authors and Participants

Authors and Participants (Non-SAARC Countries)	USD	400
Authors and Participants (Non-SAARC Countries-Students)	USD	200
Authors and Participants (SAARC Countries)	USD	200
Local Authors and Participants	BDT	3500
Local Authors (Students)	BDT	1500

Bangladeshi citizens having full-time affiliations (as students/employees) abroad will not qualify as local participants.

Method of Registration and Payment

Authors of accepted abstracts and interested participants will be able to do registration and make payment using the online platform hosted at ICWFM-2025 website. Registered authors and participants will be notified through email. Besides, authors and participants can make payments using online platform or via direct bank transfer. Please contact conference secretariat for details.

*\*Please follow detailed instructions provided at the ICWFM-2025 website to complete the registration process*

Please check website for details

