

# National Conference on Flood Early Warning for Disaster Risk Reduction

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Pulwama

*Jointly Organised by*



National Remote Sensing Centre  
Indian Space Research Organisation



Central Water Commission  
Ministry of Water Resources, RD&GR



Under National Hydrology Project

30-31 May 2019  
Hyderabad

## Background

Lot of technological advancements has been witnessed in the recent past in the area of flood early warning. Spatial flood early warning is one among them, which is gaining momentum due to availability of space based inputs, high resolution Digital Terrain Models, advanced modelling softwares, and high end computing systems. There is need to disseminate the ideas on the technological trends in flood early warning system development to the concerned. In view of this, it is proposed to organise a National Conference on “Flood Early Warning for Disaster Risk Reduction” jointly by National Remote Sensing Centre, ISRO, and Central Water Commission, MoWR, RD & GR under National Hydrology Project.

## Objective

To bring synergy amongst researchers and modellers on the latest technological developments in the area of flood early warning and to discuss on the methodological aspects, database requirements, scale, etc to carry out the activity at National level.

## Call for Papers

Papers are invited covering recent trends in the identified themes with a focus on innovative technologies. The authors are requested to submit an abstract of their research work of not more than 500 words for review. All submissions must be in electronic form. The soft copy of the abstract/paper should be submitted online through conference website (<https://----->). The authors will be notified the acceptance of the abstract after review by the technical committee. The final camera-ready manuscript must be submitted as per the given format. It is proposed to bring proceedings of the conference comprising the selected peer-reviewed technical papers.

### Important Dates

Submission of Abstracts	April 05, 2019
Acceptance of Abstracts	April 12, 2019
Submission of Final papers	April 26, 2019
Acceptance of final papers	May 10, 2019

## Target audience

Expert scientists, engineers, managers, flood disaster management authorities, decision makers working in the field of flood early warning/flood disaster studies and in the specified themes.

## Registration

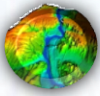
There is no registration fee for attending the conference. However, the participation is by invitation only (selected paper presenters, invited speakers, field experts, experts working in flood disaster management, State and Central Disaster Management Authorities, concerned NHP stake holders, and decision makers).

## Themes

The conference shall deliberate on the following themes for best technological solutions to flood disaster risk reduction in the country.



**Flood Early Warning:** Transformation from conventional flood forecast to hydrological modelling methods and approaches; Issues and challenges in flood early warning and spatial flood inundation simulations; 2D simulations; Storm surge modelling; Reservoir operations, GLOF, Dam break, vis-à-vis, etc.



**Model Drivers:** The role of topographic and hydro-meteorological data in flood forecast model accuracies and its availability; importance of high resolution Digital Terrain Models (DTM) in spatial flood early warning; hydro-meteorological network in India, spatial database, etc.



**Climate Change Impact:** Extreme hydro-meteorological events now and in future; flash floods forecast; role of satellite based rainfall forecast products and its accuracies, climate change impact on extreme events, etc.



**Urban Flood Modeling:** Technological trends in urban flood Modelling and early warning; cause of urban flooding, role of Doppler Weather Radar data in urban hydrology, ground instrumentation, data constraints, etc.



**Emergency Preparedness:** : Sensors & ground instrumentation, satellite communications, disaster risk reduction techniques, field experiences, etc.



**Industry participation:** Advanced softwares and hardware available for flood early warning, its capabilities, data requirements, ground instrumentation, drones, ALTM sensors, automatic data recorders, etc.

## About Hyderabad

Hyderabad is the capital city of the newly formed state of Telangana. The city was founded on the banks of River Musi by Muhammad Quli Qutub Shah in 1591. The city is located on the Deccan Plateau and it is the fifth largest city of India. The city of Hyderabad is known for pearls, Kalamkari handicraft, Kuchipudi dance, cuisines etc. Hyderabad offers a variety of tourist attractions and it is like a treat for lovers of history, art, architecture with several ornate tombs, palaces and mosques adorning the old city. HITEC City is an Information Technology, Engineering, Health informatics and Bioinformatics campus in the suburbs of Hyderabad, Ranga Reddy district, India. It is located 15km from the centre of Hyderabad.



## The Hosts

**NRSC:** National Remote Sensing Centre, Hyderabad under Indian Space Research Organisation is responsible for remote sensing satellite data acquisition, processing, data dissemination, aerial remote sensing and decision support for disaster management.

**CWC:** Central Water Commission under the Ministry of Water Resources, River Development and Ganga Rejuvenation is an apex body for formulation and administration of rules and regulations relating to the development and regulation of the water resources in India

**NHP:** National Hydrology Project objectives is to improve the extent, quality and accessibility of water resources information, and to strengthen the capacity of water resources management institutions in India.

## National Advisory Committee

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