

## **COLLABORATIVE PROJECT WITH EARTH INSTITUTE, COLUMBIA UNIVERSITY**

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ASDMA has taken up two projects for implementation in Assam under the collaboration entered with Earth Institute, Columbia University. The second project is 'Water Resource and Flood & Erosion Risk Mitigation Planning in Assam'

### **Project 2: Water Resource and Flood & Erosion Risk Mitigation Planning in Assam - A Project with Columbia Water Center**

- **Key Outputs of this Project**
  - A transferrable database of pertinent data to flooding and flood impacts in Assam
  - Maps of flood risk areas
  - Evaluation of the skill of existing forecast products to improve flood forecasting. If skill exists, CWC researchers will train personnel designated by the ASDMA on how to access and use the forecasts
  - Evaluate the ability to provide long lead-time forecasts of flooding potential. If skill exists, CWC researchers will train personnel designated by the ASDMA on how to access and use the forecasts
  - Suite of potential climate scenarios and changes in flood risk
  - Report presenting the state-of-the-art knowledge of erosion risk in the region and a synthesis of the effect of different solutions in reducing erosion rates
  - Training sessions, databases, and any pertinent computer codes and scripts to access and/or generate forecasts

Under this project, the Earth Institute will conduct critical analysis of two major water related challenges in Assam, namely flooding and climate both regionally in Assam and in the context of Brahmaputra River as a whole. The focus will be research relevant to flooding and erosion, as well as assessing risks affiliated with climate change.

For, this Project, the lead institute will be the Earth Institute, Columbia University. They will be supported by Project Partners viz Assam Water Resource Department, IIT Guwahati and North East Space Application Centre. ASDMA would support the implementation of the Project.

**The Project is undergoing and will be completed in 2016**