

## **Operational Flood Early Warning System (FLEWS) - A geospatial and hydro-met approach as developed by NESAC for Government of Assam**

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### **Abstract**

Flood is a chronic disaster occurring almost every year in the state of Assam. Along with structural measures like construction of embankment etc, non structural measures like flood forecasting, flood plain zonation and regulation etc in recent past has gained importance among researchers, technocrats and policy makers. In this context an attempt has been made by North Eastern Space Applications Centre (NESAC) under Department of Space, Government of India at Shillong, Meghalaya to mitigate the flood damage by developing an operational flood warning system for the state of Assam by judiciously using the strength of geospatial technology coupled with established relationships among important hydro-meteorological parameters.

The paper discusses the use of ArcGIS technology and the “**FLEWS**” approach adopted for this study.