

C-FLOOD Platform

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C-FLOOD Platform Latest News

Recently, the Union Minister of Jal Shakti inaugurated the C-FLOOD platform.

About C-FLOOD Platform

- It is a **Unified Inundation Forecasting System**.
- It is collaboratively developed by the **Centre for Development of Advanced Computing (C-DAC)**, Pune and **Central Water Commission (CWC)**, Department of Water Resources, River Development & Ganga Rejuvenation (DoWR, RD & GR), Ministry of Jal Shakti.
- This initiative, executed under the **National Supercomputing Mission (NSM)** jointly steered by the Ministry of Electronics and Information Technology (MeitY) and Department of Science and Technology (DST), marks a transformative step towards **strengthening** India's flood management and **disaster response framework**.

Features of C-FLOOD

- It is a web-based platform that **provides two-days advance inundation forecasts** up to **village level** in the form of flood inundation maps and water level predictions.
- The platform will act as a unified system integrating **flood modelling outputs** from national and regional agencies, offering a comprehensive decision-support tool for disaster management authorities.
- At present, the system covers the Mahanadi, Godavari, and Tapi river basins, with more river basins to be incorporated in the future.
- The C-FLOOD platform **uses advanced 2-D hydrodynamic modelling** to simulate flood scenarios.
- The simulations for Mahanadi Basin are run on High Performance Computing (HPC) infrastructure under NSM at C-DAC Pune, with integration of outputs for Godavari and Tapi Basins, which have been developed by National Remote Sensing Centre (NRSC) under the National Hydrology Project (NHP).

Source: PIB

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