

Collaborative Programmes and Projects

Multi-institutional, national and international collaborative research programmes have been at the core of C-MMACS overall research. C-MMACS to-day has active collaboration with a number of national and international institutions. At the national level, C-MMACS is a participant of projects like Indian Ocean Modelling Programme (INDOMOD) and New Millenium Technology Leadership Initiative (NMITLI) project on Monsoon Related Meso-scale Forecasting. At the international level, C-MMACS is the Indian Node of the Indo-French Centre for Environment and Climate (IFCEC)

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Indo-French Centre for Environmental Research (C
Centre Franco-Indien de Recherche sur l'Environnement

Sponsored Projects

C-MMACS caters to the needs of the country by taking up projects from various agencies in areas where mathematical modelling is critical.

1. ECF of C-MMACS
2. Scale interactions in air, land, sea coupled, environment & North-east monsoon
3. Hierarchical lattices for non-linear dynamical models of earthquake processes
4. A mathematical modelling approach to the study of the deformation characteristics of natural fault zones
5. Indian ocean modelling and dynamics
6. Modelling of the biogeochemical cycles in the bay of Bengal
7. Mesoscale modelling for monsoon related predictions
8. Establishment of Continuous Recording GPS stations at four sites in north-east India

Collaborative Projects

Finite element modelling: A priori error analysis

The INDOMOD Project

The INDOMOD project is an ambitious, multi-institutional national project that aims at a comprehensive modeling of the Indian Ocean. The project also envisages development of assimilation methodology etc. leading eventually to ocean forecasting capability.

The NMITLI Project

C-MMACS is a major participant in the New Millennium Indian Technology Leadership Initiative (NMITLI) project on Monsoon Related Meso-scale Forecasts. As a part of this project C-MMACS is engaged in simulation of tropical cyclones using a Variable Resolution General Circulation Model.

In-house Projects

General budget of C-MMACS

Capital equipment for C-MMACS

Complex fluid flow modelling and simulation

Determination of shear velocity structure of the Indian crust beneath a few geodynamically significant regions using broad band seismic records