

## COLLABORATIVE PROGRAMMES & PROJECTS

Multi-institutional, national and international collaborative research programmes have been the core of C-MMACS overall research. C-MMACS to-day has active collaboration with a number of national and international institutions.

### *Inside*

- *Sponsored Projects*
- *Collaborative Projects*
- *In house Project*

## Sponsored Projects

Analysis and Detection of a New Class of Denial-of-Service Attacks on the Internet – Department of Info Tech – **V Anil Kumar**

ISRO, Modelling of Atmosphere-Hydrosphere-Biosphere Interaction - **Goswami P**

Impact of GCM Generated Dynamical Boundary Fields on Meso-Scale Simulation, DOS - **Goswami P**

Development of a High-Resolution Regional Atmospheric Analysis through Observation and Simulation for Validation of the CSIR Fog Forecasting Platform, CSIR, New Delhi – **Goswami P**

Realistic Site-Specific Hazard Assessment for Mega-Cities Utilizing Modeling Techniques, DST – **Intiyaz A Parvez**

High Precision CO<sub>2</sub> Concentration Measurements at Pondicherry and its Inversion to Improve Quantitative Estimates of Global Sources and Sinks, DST – **Indira N K**

Establishment of a Continuously Running GPS Station, DST – **Malay Mukul**

The Impact of Physical Assimilation of Vertical Profiles of Latent Heating & Moistening of Short Range Numerical Weather Prediction, ISRO – **Rajendran K**

Inertial Effects on Forced Particles in Unsteady Flow at Low Reynolds Numbers, DST – **Ramamohan T R**

Advanced Mathematical Methods to Acquisition and Analysis of Seismological and Geophysical Data, DST – **Rameshan K**

GPS Re-Measurements to Quantify Deformation in Uttaranchal and Ladakh Himalayas, DST – **Sridevi Jade**

Procurement of the 4 Campaign Mode GPS Systems – **Sridevi Jade**

Monitoring of Post-Seismic Deformation Using GPS in Andaman Nicobar Region, DST – **Sridevi Jade**

Finite Element Modeling of Thermo Mechanical Behaviour and Micro Structural Evolution in Steel During Hot Deformation Process, DST – **Surendra Kumar**

Carbon Sources and Sinks in High Command Asia and the Indian Ocean, British High Commission – **Swathi P S**

Estimation of Carbon Fluxes in the Indian Ocean, INCOIS, Hyderabad – **Swathi P S**

## In-house Projects

GPS Measurements to Determine Time Evolving Surface Strain Field in the Bhuj Region – **Sridevi Jade**

Monitoring of Continuously Operating C-MMACS GPS Station Located in the IISc Campus - **Sridevi Jade**

Site-Specific Ground Motion Modelling and Microzonation Studies in Indian Megacities – **Parvez I A**

Empirical Modelling Relationship of the Primary Productivity with other Ocean Parameters – **Indira N K**

## 11<sup>th</sup> Five Year Plan Projects

Atmospheric Carbon Dioxide Sequestration Through Fertilization of High Nutrients Low Chlorophyll (HNLC) Oceanic Region with Iron, CSIR – **Sharada M K**

Engineering of Structure Against Natural and Other Disasters – **Goswami P**

The Supra Institutional Project: Multi Scale Simulation and Quantification of Sustainability and Vulnerability Under Climate Stress and Other Natural Hazards – **Goswami P**

Integrated Analysis for Impact, Mitigation and Sustainability (IAIMS): Regional Climate Modelling at Decadal Scale, CSIR - **Goswami P**

Precipitation Enhancement and Modification through Ground-Based Cloud Harvesting - **Goswami P**

