

COLLABORATIVE PROGRAMME & 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

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

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

Atmosphere-Hydrosphere-Biosphere Inter-actions, C-MMACS-ISRO - P Goswami

Development of a High-resolution Analysis through Observation and Simulation for Validation of the CSIR Fog Forecasting Platform, CSIR - **Goswami P**

Multi-Scale Simulation and Quantification of Sustainability and Vulnerability under Climate Variability and Climate Stress and other Natural Hazard - Suprainstitutional project of CSIR - **Goswami P** (Nodal Officer)

CSIR Network Project on Engineering of Structures against Natural and other Disaster - **Goswami P**

High Precision CO₂ Concentration Measurements at Pondicherry and its Inversion to improve Quantitative Estimates of Global Sources and Sinks of Carbon, DST – Indira N K

Estimation of Carbon Fluxes in the Indian Ocean, Ministry of Earth Sciences - **Swathi P S**

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

Atmosphere Carbon Dioxide Sequestration through Fertilization of a High-nutrients-low Chlorophyll Oceanic Region with Iron, Network Project with NIO, CSIR - **Sharada M K**

GPS Re-measurements to Quantify Deformation in Uttaranchal and Ladakh Himalayas, Ministry of Earth Sciences - **Sridevi Jade**

Procurement of four Campaign Mode GPS Systems, Ministry of Earth Sciences - **Sridevi Jade**

A Kinematic Study of Suspected Major Active Shear/Fault Zones in the West Southern peninsular Shield of India: Implications on Seismogenesis, Ministry of Earth Sciences - **Sridevi Jade**

Monitoring of Post Seismic Deformation using GPS in Andaman Nicobar Region, Ministry of Earth

Sciences - **Sridevi Jade**

Active Tectonics of the Darjeeling-Sikkim Himalayas using Global Positioning System (GPS) based Geodesy with GBPHIED, Gangtok, Sikkim - **Sridevi Jade**

GPS Monitoring Of The Area Southeast Of 2005 Muzaffarabad Rupture Zone Around Jammu, With Department of Geology, Jammu University -- **Sridevi Jade**

Tropospheric Precipitable Water Vapour estimation in Northeastern India using GPS network, Department of Physics, Tezpur University -- **Sridevi Jade**

Finite Element Modeling of Thermomechanical Behavior and Microstructural Evolution in Steel during Hot Deformation Processes, DST- **Surendra Kumar**

Establishment of Continuously running GPS Station at Durgapur, West Bengal, DST - **Malay Mukul**

Analysis and Detection of a New Class of Denial-of-Service Attack on the Internet, Ministry of Information Technology - **Anil Kumar V**

Megha-Tropiques Mission of ISRO Project on Impact of physical assimilation of vertical profiles of latent Heating and moisture on short-range weather forecasting, ISRO –**Rajendran K**

Advanced Mathematical Modelling and Artificial Intelligence System in the Analysis of Geophysical Time Series (Earth, Ocean and Atmosphere), DST - **Rameshan Kallummal**

Indo-Italian Bilateral project on Realistic Site-Specific Hazard Assessment for Mega-Cities utilizing Modelling Techniques, DST - **Imtiyaz A Parvez**

Site Effects in Ahmedabad based on Array Observations of Microtremors, DST - **Imtiyaz A Parvez**

International Network Project Seismic Hazard in Asia, AS-ICTP, Trieste, Italy – **Imtiyaz A Parvez**

Thermal Structure and Mixed Layer Variations of the Indian Ocean in an Ocean General Circulation Model (OGCM), DST - **Kalyani Devasena**

Analysis and Detection of New Class of Denial-of-Service Attacks on the Internet, Ministry of Communication and Information Technology, Government of India - **V Anil Kumar**



Collaborative Projects

Carbon Fluxes in India and Central Asia, Indo-French Collaborative Project with IIA - **Indira N K**

Variations in deformation and kinematics along and across the Himalayan arc through time: Insights from the Darjeeling-Sikkim-Tibet transect, National Science Foundation, USA - **Malay Mukul**

River dynamics and hazard assessment in the Himalayan foreland, UK-India Education and Research Initiative (UKIERI) 2007 Standard Research Awards programme - **Malay Mukul**

Aqua-planet Experiment Project (APE), Collaborative Project under WCRP/WGNE - **Rajendran K**

Towards Further understanding of MJO from TRMM data and Japan Meteorological Agency forecast data, under JAXA, Collaborative Project with Japan - **Rajendran K**

Impact of Regional Aerosol Radiative Forcing on

Indian Summer Monsoon, Indo-French Collaborative Project - **Sajani S**

Modeling Aerosol Radiative Forcing and Air Quality over Tropical Monsoonal Regions: Impact of Aerosols, Tropospheric Chemistry and Source Attribution, Collaborative Project with Germany - **Sajani S**

In-house project

Network Security in an Inter-networked environment - **Thagavelu R P**

Empirical modelling and relationship of the primary productivity with other ocean parameters in the Indian ocean - **Indira N K**

Monitoring of Continuously operating C-MMACS GPS station located in the IISc Campus - **Sridevi Jade**

Site-specific ground motion modeling and microzonation studies in Indian megacities - **Imtiyaz A Parvez**

