

HIGHLIGHTS OF THE YEAR 2008-09

- **Signing of MoU with GBPIHED: Installation of the first climate profiler at Kosi, Almora**
- **Commissioning of Meso-scale Observation Network for Urban systems (MONUS). Telemetric data reception at C-MMACS commences**
- **Signing of MoU with Karnataka State Natural Disaster Monitoring Cell (KSNMDC); site for MONUS identified over the Western Ghats**
- **CSIR Programme on Climate Change: Integrated Analysis for Impact, Mitigation and Sustainability (IAIMS) launched**
- **Technology demonstration project on precipitation commences**
- **Three dimensional dynamic cloud simulation model installed and tested**
- **Novel algorithm for long-range forecasting of monsoon developed**
- **Major 11th Plan project on the establishment of a continuous GHG monitoring station in Andamans approved**
- **Parametric sensitivity analysis for the coupled Physical Biological Model in the Indian Ocean performed**
- **Marine Ecosystem Model extended to include multiple currencies**
- **Precise surface deformation rates in the Andaman and Nicobar islands from satellite geodesy determined**
- **Post seismic deformation modeled to yield after slip in this region**
- **Quantification of N-S and E-W deformation pattern in the Indian subcontinent and determination of the pole of rotation of the Indian plate**
- **Initiation of volcano deformation studies in Barren and Narcondam islands**
- **Kinks found in the simulation of periodically forced spheres in a quiescent fluid at low Reynolds numbers**
- **Object oriented version of FEM code developed**
- **Quadratic element model developed with non – conforming displacement modes and modified shape functions for mesh distortion avoidance**
- **Analysis of secure communication using synchronization of chaotic systems with nonuniform step sizes performed**
- **SGI Altix 4700 Supercomputer with 200 Itanium 2 cores and 400 GB memory becomes the largest shared memory system in India. It is ranked 10th in the ‘Top Supercomputers in India’ list of November 2008.**

