Dr. Anupam Hazra

Dr. Anupam Hazra has focused on the development of coupled forecast system (CFSv2) for improving the seasonal prediction skill of Indian summer monsoon rainfall (ISMR) under monsoon mission project, a visionary initiative of the MoES, Govt. of India. The operational CFSv2 has been developed by implementing a physically based modified convective microphysics scheme. The in-house development of CFSv2 resulted into phenomenal increase in seasonal prediction skill of the ISMR from existing 0.56 to 0.71. The newly developed model shows ∼70% of interannual variability of the ISMR is predictable, which is much higher than the earlier estimates (∼45%). Another visionary initiative of the MoES, Govt. of India was the development of a prediction system for thunderstorm and lightning for India. Dr. Hazra has developed a modeling framework based on high resolution mesoscale model (WRF) by incorporating an advanced 'dynamical lightning parameterization' scheme for predicting thunderstorm as well as lightning flash. The newly developed system is capable of providing lightning/thunderstorm prediction up to 24 hours ahead at three hours interval with good accuracy. This forecast system is now operational.Moreover, Dr. Hazra is putting constant efforts on basic research for understanding of physical process for Indian summer monsoon in global and regional climate. Research on extreme/ severe storm, cloud-aerosol interaction and invigoration of deep convective cloud are also carried out by him as per vision of Monsoon Mission

Dr. Anupam Hazra is awarded **Certificate of Merit** for his outstanding contribution in the field of Atmospheric Science.