

Dr. Ashim Kumar Mitra

Dr. Ashim Kumar Mitra did his M.Sc. (Computer Science) and Diploma in computer application from Guru Ghasidas Das Central University, Bilaspur, Chhattisgarh. He joined India Meteorological Department (IMD) as a Meteorologist through UPSC in 2002 and later obtained his Ph.D in quantitative application of remote sensing in weather forecast from Jadavpur University, West Bengal (2014). During his Ph.D he had demonstrated the

utilization of INSAT/Kalpana-1/Polar satellite data for weather forecast and climate studies. Currently he is In-charge of software maintenance and development of INSAT Meteorological Data Processing System (IMDPS), Satellite Meteorology division, IMD, New Delhi, which includes INSAT-3D/INSAT-3A/Kalpana-1 satellites. He is also looking after the operations of METOP/MODIS/NOAA direct broadcast system, (New Delhi, Chennai and Guwahati). He was instrumental in utilization of INSAT satellite data in the NWP model assimilation. He has contributed extensively for preparing the BUFR code of METOP/NOAA direct broadcast systems which is now being provided to NCMRWF for Model assimilation on an operational basis from Chennai and New Delhi stations.

He has been the architect of some of the major setup at IMD for delivery of satellite data and solutions to national and international agencies. Some of them are: a) Web archival system has been developed exclusively for KALPANA-1/INSAT3A/INSAT-3D data and NOAA/METOP/MODIS systems on Linux platform and made operational since January 2011 to the forecasters b) Night time FOG detection using NOAA/MODIS and INSAT-3D satellite; providing FOG advisories (standard operational procedure) using satellite products to the forecasters and it is found very useful for day-to-day FOG forecast and aviation forecasting especially during winter. c) To facilitate inter-regional satellite data exchange and interoperability around the globe (WMO program), NOAA/METOP ground receiving system datasets from New Delhi and Chennai station have been converted in WMO BUFR format and being exchanged with Regional ATOVS Retransmission Services (RARS) network operationally. Recently, he has been called at WMO, Geneva as an expert for polar satellite data exchange programed) Responsible for: NOAA/METOP/INSAT-3D vertical temperature and moisture profile data in the graphical format to the respective GPS/Radiosonde observation stations, INSAT OLR data for the Onset of Monsoon, FDP Cyclone imageries and digital data, Amaranth imageries with the track.

He is now associated with INSAT-3D Calibration/Validation (CAL/VAL) program as a Member Secretary. Under this project, two successfully

campaign done at Jaisalmer and Bhuj for site preparation. It is very important task to any weather agency to make their satellite products authentic for its application usability in weather forecasting. Dr. Mitra has been engaged in research in operational meteorology/atmospheric science for last decade. He has published many quality research papers in various national and international journals. He delivered many invited lectures to different organizations/high level meetings/national/international conferences. He was a visiting scientist at CIMSS/SSEC/UW-Madison (Cooperative Institute for Meteorological Satellite Studies, Space Science and Engineering Center, University of Wisconsin-Madison) during June to October 2010 for INSAT-3D Sounder project. He is also member of various national as well as international committees (GSICS, SCOPE-CM, GPAT, RARS etc.). He is involved in two MoES programs, as a member of Joint Task Team of ESSO-ISRO for development of state of art software tools and Early Warning Services in India, and secondly, the Development of merged gridded daily and hourly rainfall data.

Dr. Ashim Kumar Mitra is awarded Certificate of Merit for his outstanding contribution in the field of Atmospheric Sciences.