

Resume

DR. MD. ABDUL MANNAN

Executive Director (Modeling), MCERC Pvt. Ltd., Dhaka
Former Consultant, ACASA Project, BARC, Dhaka
Former Consultant, Crop Zoning Project (CZP), BARC, Dhaka
Adjunct Faculty (Professor) of DU, BUP, BMU and BRAC University
Former Meteorologist, Bangladesh Meteorological Department
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Academic Qualification: B. Sc (Hons), M. Sc in Physics, M. Phil (BUET), Ph D (JU), PGD in Satellite Communication (India), B. Ed (NU), Diploma in Computer Application (DCA), BUGC (Dhaka)

Professional Experience: (i) Over 25 years of experience in operational forecasting, severe weather analysis, climate research, and disaster risk reduction with the Bangladesh Meteorological Department (BMD) and the SAARC Meteorological Research Centre (SMRC). Extensive expertise in the analysis of meteorological, radar, and satellite data and the preparation and issuance of local, regional, and national forecasts and early warnings for hazardous weather events including cyclones, storm surges, severe thunderstorms, heavy rainfall, and high winds. (ii) Actively involved in disaster preparedness and early warning dissemination, providing meteorological briefings to government authorities and supporting national disaster management activities. Conducted research on monsoon variability, seasonal prediction, and severe weather over the SAARC region, and coordinated regional meteorological programmes such as the SAARC STORM Programme and SAARC Monsoon Programme. (iii) Experienced in numerical weather prediction (NWP), climate analysis, and meteorological modeling, including the application of advanced forecasting tools and software. Contributed to capacity building and professional training by delivering courses on meteorology, disaster management, WRF modeling, and forecasting techniques for national and regional professionals. Also involved in international collaboration, technical reporting, administrative management, and climate change-related initiatives.

Professional Training: Received extensive professional training both at home and abroad in meteorology, climate science, disaster risk management, and numerical weather prediction. The training covered areas such as monsoon prediction, climate modeling (PRECIS), NWP models (MM5, WRF), short, medium and long-range (seasonal) forecasting, data assimilation, satellite data applications, storm surge and tsunami modeling, remote sensing, and disaster risk reduction. Participated in numerous international workshops, seminars, and capacity-building programs organized by regional and international organizations focusing on weather forecasting, climate variability, and early warning systems.

Technical Skills: (i) **Operating Systems:** Windows, UNIX, Linux, (ii) **Software:** MS Office (Word, Excel, PowerPoint, email/internet), Photoshop, PaintShop Pro, Animation Shop, Surfer, GrADS, ArcGIS, McIDAS, SATAID, SCOPIC, Panoply, CDO. (iii) **Programming Language Proficiency:** C, R, and Python; (iv) **Modelling:** WRF (ARW) and WRF(Chem).

Teaching Experience (continue): Over 10 years of teaching experience as a faculty member at the Department of Disaster Management and Climate Resilience (DSCR) and Department of Meteorology under University of Dhaka, Bangladesh University of Professionals (BUP), Bangladesh Maritime University (BMU), and BRAC University, teaching various subjects related to Meteorology and Disaster Management.

Training Experience: Conducted training on various meteorological subjects at the Bangladesh Meteorological Training Institute. Provided training on Meteorology and Disaster Management to diverse groups, including the Bangladesh Navy, Bangladesh Air Force, and other professional and community participants.

Research Supervision (continue): Supervised a significant number of BS, MS, MPhil, and PhD theses under different universities in the fields of Meteorology and Disaster Management.

Research Publications: Author/co-author of 68 peer-reviewed research publications in the fields of Meteorology, Climate, and Disaster Management. Research metrics include 398 citations, h-index: 12, and a Research Interest Score of 668.1 with about 35,000 reads on ResearchGate (as of 14 April 2026). Full publication list available at: <https://www.researchgate.net/profile/Md-Mannan-12>

Project Management and coordination: Working as: (i) Project Director at BMD for the GK-2A Project of Korea; (ii) Focal Person from BMD for the CIMMYT Project; (iii) Focal Person from BMD for the BWCSR World Bank Project; (iv) Team Lead for assessing the implementation of the DAE component under the BWCSR World Bank Project; (v) Data Analyst for the implementation of the DAE Project.