
Dr. A. Jayakumar



Dr.A. Jayakumar is currently working as a Scientist-D at NCMRWF. He obtained his Ph. D from Pune University in the year 2011, while working as a CSIR Research fellow at IITM, Pune. After two years of post-doctoral research from Florida State University, he joined NCMRWF in 2013. He has worked on Indian Monsoon as a visiting scientist at University of Reading, UK during 2016. His current major works include implementation, and upgradation of NCMRWF- Unified model (NCUM), both global (12km) and regional (4km, 1.5km, 330m) deterministic versions, in the new HPC.

He has over 20 peer reviewed research publications to his credit. His recent major contributions include:

1. Upgradation and optimisation of operational NCUM in the new 'Mihir HPC'.
2. Assessment of the performance of cloud schemes in convection permitting NCUM using INCOMPASS aircraft data sets .
3. Incorporation of Cartosat-I orography and ISRO LuLc in 330m Delhi model.
4. Implementation of prognostic dust scheme and cloud droplet number tapering optimisation in the convection permitting model.
5. R&D activities in the sub-km scale modelling, which are useful for the visibility prediction over Delhi, orographic precipitation forecast for the Shri Amarnathji Yatra, etc.
6. Association in NCMRWF international collaborative projects such as MoES-NERC (INCOMPASS), Belmont Forum/JPI-Climate BITMAP project, DFID/NERC LANDSLIP and the WCSSP-India project under Newton Fund.

Dr. A. Jayakumar is awarded the Certificate of Merit for his outstanding contributions in the field of Atmospheric Science and Technology