

Dr. E. A. Resmi



Dr. E. A. Resmi, Scientist D & Deputy Group Head of the Atmospheric Processes Group, National Centre for Earth Science Studies (NCESS), Thiruvananthapuram is engaged in front-line research in cloud-microphysics for improving the accuracy of precipitation estimation in complex regions like Western Ghats provinces of Peninsular India. She has been instrumental in setting up of a High-Altitude Cloud Physics Observatory (HACPO) at Rajamallay, Munnar (1820m amsl) and upgradation of the Braemore (400 m amsl) observatory in Thiruvananthapuram, in addition to augmenting the instrumental set up at NCESS campus. She also contributed immensely for the establishment of the Lightning Detection Network in southwest coast of India in collaboration with IITM, Pune and IMD. Through her recent studies on the microphysical aspects of tropical rainfall utilizing the atmospheric observation from HACPO in Rajamallay, for the first time, she and her colleagues could bring out clearly the seeder-feeder mechanism in the southern Western Ghats region during monsoon season. She has also worked in the area of air quality monitoring and its diurnal cycle over a coastal location as a part of 'Modelling Air Pollution and Networking' (MAPAN) programme of the Ministry of Earth Sciences (MoES), Government of India.

Prior to joining NCESS in 2016, she was working with IITM, Pune in CAIPEEX program (2012-2016) and participated in field campaign "Ganga Basin Experiment over Varanasi" in ground & aircraft. She has been actively involved in the cloud seeding experiments conducted by IITM in 2015 and 2018. She has awarded PhD from Department of Atmospheric Science, Cochin University of Science and Technology (CUSAT) in 2013. She is a recognised research guide and guiding at present many students. Her areas of research interest are basic research for understanding the physical processes in microscale and macroscale levels, studies on extreme/ heavy rainfall, bright band studies using precipitation radar, wet and dry rainfall conditions in monsoon domains and, diurnal cycle in precipitation integrating observations and numerical modelling. She has many publications in peer reviewed journals and proceeding.

Dr. E A Resmi is awarded Certificate of Merit for her outstanding contribution in the field of Atmospheric Science.