

## Dr. Naresh Kumar



**Dr. Naresh Kumar** did M.Sc. (Applied Mathematics) from IIT, Mumbai. He joined the India Meteorological Department (IMD) in 2002 as Meteorologist and later did his Ph.D. on the topic “Mathematical Modelling of Orographic Waves” from Jamia Millia Islamia, New Delhi in year 2008. He served in the field of operational weather forecasting particularly for Himalayan Region, Tropical Cyclone Monitoring & Forecast and Numerical Weather Prediction. Presently, he is working as Scientist ‘E’ in National Weather Forecasting Centre, Regional Specialized Meteorological Centre (RSMC) and Central Purchase Unit (CPU) of IMD at New Delhi. He is also the nodal officer for multi-institutional Forecasting Demonstration Project (FDP) on winter weather systems includes fog and FDP on heat wave. In addition, he is in-charge of Mountain Meteorology Division of NWFC and Project Director of “Integrated Himalayan Meteorology Programme for Western & Central Himalayas”.

Dr. Kumar has made significant contribution in the improvement of general weather forecasting, tropical cyclone forecasting, Fog and Heat Wave warning in recent years. Due to his contribution, there was a significant improvement in fog warning and its lead period as compared to last year with 72 hours warning accuracy in winter 2017-18 being higher than 24 hours warning accuracy of winter 2016-17. Also, in general large scale dense fog was predicted 3 to 5 days in advance during winter 2017-18.

Dr. Kumar introduced customised Mountaineering expedition weather forecast & warnings for precipitation, temperature and wind speed. Due to accurate & timely forecast as well as warnings for various mountain expeditions, he has earned appreciation for self and IMD from various organisations including Indian ARMY, NAVY, CRPF, Sashastra Sena Bal, Commandant Laddakh Scout Regimental Centre and ONGC etc.

His contributions during cyclone period are noteworthy and have earned accolades to IMD from various National & International agencies including WMO and the Hon’ble Prime Minister of India. He has made praise worthy contributions in warnings of the very recent Cyclonic Storm (CS) “Sagar” (16-20 May 2018) and Extremely Severe Cyclonic Storm (ESCS) “Mekunu” (21-27 May 2018). His contributions towards the monitoring, prediction & warning of heat wave and issue of daily special bulletin for heat wave is also praise worthy.

Dr. Kumar has published more than 65 research papers in peer reviewed National/International Journals & various proceedings and contributed in 6 books/manuals. He has delivered more than 35 invited talks/presentations in National/ International Conferences/workshops. His research publications are mainly on Western Disturbances and its associated weather, Climate change specifically for Himalayan region and Mountain waves.

Dr. Naresh Kumar is awarded the Certificate of Merit for his outstanding contributions in field of Atmospheric Sciences.