



# Physical Research Laboratory, Ahmedabad

## Colloquium 21\_03

- Speaker:** Dr. Mrutyunjay Mohapatra  
Director General of Meteorology (DGM), India Meteorological Department (IMD),  
Govt. of India, New Delhi
- Title:** "Weather Forecasting in India : Current status and future plan"
- Date and Time:** Wednesday, 20 January 2021, 16:00 – 17:00 hrs
- YouTube Link:** <https://www.youtube.com/watch?v=9idKggtF90o&feature=youtu.be>

### Abstract

Most of these natural disasters (about 80%) are hydro-meteorological in nature. They include cyclones, floods, droughts, landslides, heat wave, cold wave, thunderstorms, and tornadoes. The risk management of these natural disasters includes several steps based on its severity and impact: (i) hazard analysis, (ii) vulnerability analysis, (iii) preparedness and planning, (iv) early warning, (v) prevention and mitigation. The early warning component includes: (i) skill in monitoring and prediction of natural hazards, (ii) effective generation and dissemination of products for warning, (iii) coordination with emergency response units, and (iv) public awareness and perception about the credibility of the official predictions and warnings. Though there have been significant improvement in multi-hazard monitoring and warning system in recent years due to various initiatives of Ministry of Earth Sciences (MoES) / India Meteorological Department (IMD) and policy frame work of Government of India, there is still scope for improving (i) mesoscale hazard detection and monitoring, (ii) spatial and temporal scale of forecasts through technological upgradation, (iii) impact based forecast and sectoral applications, (iv) warning communication to last mile. All these aspects will be discussed with respect to current status, existing gap areas, and future scope.

### The Speaker

Dr. Mrutyunjay Mohapatra is currently the DGM, IMD and Permanent Representative of India & elected Member of Executive Council of World Meteorological Organisation. With a Ph. D in Physics, and 27 years of experience in meteorology, Dr. Mohapatra has contributed at national and international levels towards the science of weather forecasting and cyclone through research and development, improvement of prediction and warning services through application of developed scientific methods and technology and served the society by enabling the disaster managers and general public to minimize of loss of lives and properties. He has brought laurels to the country from various international agencies like United Nations, World Meteorological Organisation for effective cyclone warning. To mention a few are the timely and accurate warnings for cyclones, Phailin in 2013, Hudhud in 2014, Vardah in 2016, Titli, Sagar & Mekunu in 2018, Fani and Bulbul in 2019, Amphan and Nisarga in 2020. His brilliance and expertise in cyclone warning has helped in better management of cyclones limiting loss of human lives to double digit not only in India but also in all the north Indian Ocean Rim countries. He is popularly known as "The Cyclone Man of India", He is the author of more than 85 research papers published in peer reviewed national and international journals. He has edited 3 books and 7 Journals. He has received a number of awards and recognitions including: Doctor of Science from Fakir Mohan University, Odisha and Kalinga Institute of Industrial technology, Odisha, Fellow of Indian Meteorological Society & Indian Climate Congress, Achievers Award from India Meteorological Department. Young Scientist Award from Ministry of Earth Sciences, 25th Biennial Mausam Award, Bharat Gaurav Award by Jai Bharat Foundation, Odisha, Satyasai Samman-2019 by Satyasai Charitable and Education Trust, Odisha and Felicitation by Chief Minister of Odisha. He chairman of many national and international committees including Regional Tropical Cyclone Programme, Regional Sub-project Management Team (RSMT) of WMO's Severe Weather Forecasting Programme for South Asia, WMO/ESCAP Panel on Tropical Cyclones, Task Team for finalization of Meteorological Payloads of INSAT-4 satellites, Revision of NDMA Guidelines for cyclone management, National Cyclone Risk Mitigation Project of NDMA, Govt. of India. He is President of Indian Meteorological Society.

**ALL ARE WELCOME**

