



Ministry of Earth Sciences  
Government of India



# Basics of Numerical Weather Prediction and Data Assimilation

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Abhijit Sarkar is a scientist at National Centre for Medium Range Weather Forecasting (NCMRWF), Ministry of Earth Sciences, Govt. of India. His areas of interest are NWP modelling and ensemble forecasting. He leads the “Ensemble Forecasting” group of NCMRWF and has played key role in operational implementation of Unified Model based global and regional ensemble prediction systems at NCMRWF.

## About the Talk

Numerical Weather Prediction (NWP) models are the essential tools in operational weather forecasting. An NWP model is integrated forward in time from best estimated initial condition (or analysis) prepared by sophisticated data assimilation (DA) method to predict the future state of the atmosphere. This webinar aims to discuss the basics of NWP and DA. Use of ensemble forecasting method in order to address the uncertainties associated with NWP will also be discussed briefly.

**23<sup>rd</sup> Live Talk**

**12:00 – 01:00 PM IST**

**28<sup>th</sup> JULY  
2020**

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 <https://youtu.be/lqAjt0hG3rw>