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## Dr. Anumeha Dube



Dr. Anumeha Dube works at NCMRWF. She has implemented bias correction/post processing for NCMRWF Ensemble Prediction System (NEPS) Forecasts for surface and upper air wind, temperature, geopotential height and MSLP. This has a potential application towards the correction of biases in the cyclone forecasts. She compared the performance of two versions of NEPS(33km and 12 km) both operational at NCMRWF in predicting the strike probabilities and intensity of tropical cyclones (2016 to 2018). This is the first time that the verification of probabilistic tropical cyclone track forecasts (strike probability) has been conducted in India. She is involved in the development of Extreme Forecast Index (EFI) for heat wave prediction over Indian region during March to May 2019. She developed bias correction methods based on quantile-quantile matching and Bayesian Model Averaging (BMA) for rainfall from NCMRWF Unified Model (NCUM) and NEPS. She is involved in bias correction of maximum and minimum temperatures from NCUM and NEPS. She has developed and implemented a special visualization tool (based on JavaScript) for IMD's Severe Weather Forecast Demonstration Project (SWFDP).

Dr. Anumeha Dube is awarded the Certificate of Merit for her outstanding contributions in field of Atmospheric Sciences.