

# PARLIAMENT QUESTION: Improving accuracy of Weather Forecasting

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There has been a 40 to 50 percent improvement in the forecast accuracy of all severe weather events like heavy rainfall, fog, heat/cold waves, and thunderstorms in the recent five years by the India Meteorological Department (IMD).

Ministry continuously enhances and upgrades meteorological observations, communications, modeling tools, and forecasting systems. The IMD uses the latest tools and technologies to predict severe weather events. This includes sophisticated dynamical numerical weather prediction models at higher spatial and temporal resolution, multi-model ensemble methods, artificial intelligence, and machine learning (AI/ML) & data science methodologies, complemented with improved ground-based & upper air observations and advanced remote sensing network for real-time monitoring and predictions. IMD uses the latest dissemination tools, including Common Alert Protocol (CAP), mobile apps, websites, APIs, and other social media platforms, to provide efficient, effective, and timely early warning services. IMD is constantly working to improve and adapt to the latest technologies.

This information was given by Union Minister of State (Independent Charge) for Science & Technology and Earth Sciences, Dr. Jitendra Singh in a written reply in the Rajya Sabha today.

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