



Ramdurg House
Where it all started

Brief History

Initially, the Institute was founded as a distinct unit of the India Meteorological Department (IMD) under the name of Institute of Tropical Meteorology (ITM) on 17 November, 1962 at Pune by the Government of India with support from the World Meteorological Organization (WMO). On 1st April 1971, the Institute was given an autonomous status under the present name. Later in 1985, the Institute was brought under the Department of Science and Technology (DST) of the Ministry of Science & Technology. Now, since 12 July 2006, IITM has been functioning under the direct administrative control of the specially formed Ministry of Earth Sciences (MoES), Government of India.

About IITM

IITM is recognized as a national centre for basic and applied research in Meteorology and Atmospheric Sciences. The Institute is having state-of-the-art world-class infrastructure and facilities. IITM is working dedicatedly on these subjects with emphasis on Tropical Meteorology and Monsoon Studies.

IITM, as a vibrant and dynamic research institute, is committed to the better understanding of land-atmosphere-ocean system and to the development of improved skills in monsoon predictions. The Institute is constantly evolving to meet the new challenges and changing national and international demands. Institute's scientific expertise has potential applications in country's agriculture, economics, health, water resources, transportation, communications, etc.

Broad areas of Research and Development

Tropical Meteorology and Atmospheric Sciences including Climatology, Palaeoclimatology, Dendroclimatology, Hydrometeorology, Monsoon Studies, Weather Modifications, Climate Predictions and Weather Forecasting, Climate Change, Boundary Layer, Global Atmosphere and Ocean Modelling, Satellite Meteorology, Atmospheric Chemistry, Atmospheric Electricity, Cloud Physics, Aerology, Instrumentation for Observational Techniques, Theoretical Studies, land-Ocean-atmosphere Processes and interactions, Satellite and Radar Meteorology, etc.

climate
change
and
projections

GHG
studies

cloud
physics
and
dynamics

cloud
seeding

Vision
"To Make IITM a World
Centre of Excellence in Basic
Research on the Ocean-
Atmosphere Climate System
required for improvement of
Weather and Climate
Forecasts"

thunder
storm

air quality
forecast:
SAFAR

ocean
studies

**monsoon
studies**

prediction

variability

land

palaeo

extended
range

Atmo-
sphere

short-term

seasonal

ocean

modeling

theoretical
studies

obser-
vations

For more information, please contact:
Indian Institute of Tropical Meteorology
(An autonomous Institute under the
Ministry of Earth Sciences, Govt. of India)
Dr. Homi Bhabha Road,
Pashan,
Pune-411 008.
Tel : +91-(0)20-25904200
Fax : +91-(0)20-25865142
E-mail : lip@tropmet.res.in
Website : www.tropmet.res.in
f @iitmpuneofficial t @iitmpune

www.tropmet.res.in



IITM

Indian Institute of Tropical Meteorology

www.tropmet.res.in

Aspiring for Better
Prediction of
Weather and
Climate



IITM Main Building

Major Thrust Areas

- Tropical Weather and Climate
- Climate Change Research and Projections
- Monsoon Prediction at Different Scales
- Physics and Dynamics of Tropical Clouds
- Airborne Research
- Air Quality Research and Forecast
- Academic and Training Activities

Strengths

IITM has strong expertise in theoretical and observational meteorology, oceanography, climate change and modelling with special reference to Asian monsoon variability and predictability.

Infrastructure and Facilities

IITM has excellent infrastructure and facilities for advanced research in Atmospheric Sciences and Climate. The advanced labs and instruments include: High Performance Computers (HPCs) with high processing capacity, mobile multi-parameter Doppler Radars, GPS Radiosonde, X-Band, Ka-Band and C-band Radars, Mobile LIDAR Wind Profiler, Hyper-spectral Microwave Radiometer, Sky Radiometer, Dual Polarisation Micro Pulse LIDAR, Stable Isotope Mass Spectrometer, Urban Air Pollution Measurement Network and Forecasting System, Thunderstorm Forecasting System, Dendroclimatology Lab with advanced Densitometry for tree rings, Laser Remote Sensing & Aerosol lab, High-end Multimedia Training Facility, Fluid Dynamics Lab, Cosmic Ray Soil Moisture Observation System, etc. A well-equipped High Altitude Observatory for aerosol-cloud interaction studies at Mahabaleshwar, Maharashtra is established.



Automatic Weather Station

GHG Flux Tower

Instruments for Fog Campaign

Ka-band and X-band Radars

Instrumented Tower at IITM

C-band Radar

Instruments at HACPL

Mission Mausam Verticals
A unified earth system approach to meet the demand for weather services and solutions

11.77 PF HPC ARKA
4.0 PF HPC PRATYUSH

Aircraft for Cloud Seeding Experiment

HACPL, Mahabaleshwar

IITM Library Building

New Delhi Branch Office

Prithvi Hall of Residence

IITM Main Gate

Meghdoot Complex

