

Indian Institute of Tropical Meteorology (IITM), Pune
Ministry of Earth Sciences
Govt. of India

Press Release (26 August 2024)

**Inauguration of Climate Data Archival and Distribution System (CDAS) server at
CCCR, IITM, Pune during the inauguration of IMD-WMO joint International
Training Program**

Key Highlights:

- Inauguration of International group fellowship training program on "Forecasters Competency Development" jointly organised by IMD-Pune and WMO Geneva, at IITM Pune today.
- This program is being conducted at IMD's Regional Training Centre, Meteorological Institute, Pune during 26 August to 27 September 2024.
- Inauguration of Climate Data Archival and Distribution System (CDAS) server at CCCR, IITM, Pune at the hands of Secretary MoES.
- Released various IMD reports (viz., Monogram Disastrous Weather Event 2023, NABL Accreditation Technical Report for Surface Calibration Laboratory and WMO Competency Training release).
- Visit of Secretary MoES to CCCR and HPC facility at IITM

26.8.2024; Meghdhoot Auditorium, IITM, Pune: The International group fellowship training program on "Forecasters Competency Development" jointly organised by India Meteorological Department (IMD), Pune and the World Meteorological Organization (WMO), Geneva, was hosted in Meghdhoot auditorium, Indian Institute of Tropical Meteorology (IITM), Pune.

Dr. K.S. Hosalikar, Sc-G & Head, Climate Research & Services, IMD, welcomed the session and elucidated elaborately about the training program that would be undertaken by 16 forecasters from 15 countries, along with 10 forecasters from IMD during 26 August to 27 September 2024 at its Regional Training Centre, Meteorological Institute, Pune.

Further, Dr. Paul BUGEAC, Coordinator, Learning and Development Education and Training Office, WMO, addressed the gathering online. He emphasized on the augmentation of

competency through such outstanding training programs in collaboration with Indian Institutes for capacity development of forecasting services.

Furthermore, Dr. M. Ravichandran, Secretary, Ministry of Earth Sciences (MoES), inaugurated the training program. His keynote address emphasized on the role of enhancement of analytical ability, communication skills, collaborations and technology development as key factors for the improvement of core competency in the forecasting skills in India.

The Guest of Honour, Dr. R. Krishnan, Director, addressed the gathering by highlighting the importance of building competency in weather system, accurate prediction and timely public dissemination. He further emphasized that although the skill for tropical cyclones has improved over the period, the uncertainty in extreme weather events still remain a challenge. Hence, building up the competency to bridge the gap in understanding extreme weather events using highly advanced observational data and technology would be critical factor in the forthcoming years.

Dr. M. Mohapatra, DGM, IMD and PR of India to WMO, mentioned in his inaugural speech that this capacity building program is special and different from earlier programs and would benefit forecasters and experts in empowering their decision-making skills.

During this inauguration ceremony, the Climate Data Archival and Distribution System (CDAS) server at CCCR, IITM, Pune has been inaugurated by Dr. M. Ravichandran, Hon'ble Secretary, MoES.

On this occasion, dignitaries released various reports of IMD viz., Monogram Disastrous Weather Event 2023, NABL Accreditation Technical Report for Surface Calibration Laboratory and WMO Competency Training release.

Dignitaries from the MoES along with senior officers from IMD and IITM attended this program. They also visited CCCR and the HPC facility at IITM, Pune. Last but not the least, the event was culminated by a press meet.

Brief about the launch of various Products/ Reports released today:

1) Climate Data Archival and Distribution System (CDAS) server at CCCR, IITM, Pune

"State-of-the-art Centre for Climate Change Research established at the Indian Institute of Tropical Meteorology (IITM) Pune, launched in 2009 with the support of Ministry of Earth Sciences, Government of India focuses on better understanding the science of climate change over the Tropics and enable improved assessments of the regional climate responses to global climate change. The CCCR-IITM has established Climate Data Archival and Distribution System (CDAS) for disseminating climate change projections generated from India using the IITM Earth System Model (IITM-ESM) developed in-house at IITM, Pune. The CDAS

server was inaugurated by Dr. M. Ravichandran, Honorable Secretary, Ministry of Earth Sciences, Govt. of India on 26th August 2024.

The climate data and climate change projections from CCCR-IITM are being used by various stake holders including state governments and national and international organizations. The initiative will also contribute to the data dissemination as part of Coupled Modelling Intercomparison Project (CMIP7) of the World Climate Research Programme, WMO and will be used in the IPCC Assessment Report. Most importantly, the climate change projections will serve as important datasets for global and regional assessments of climate change and its impacts on different sectors.

The CDAS server at IITM has a storage capacity of 2 Petabytes and will serve as a mirror server for hosting outputs from climate models contributing to the IPCC AR7. The CDAS server is part of the Earth System Grid Federation (ESGF) server maintained globally for disseminating climate data produced from the global climate modelling centers. The CDAS server is designed to handle large-scale data management for worldwide distribution and will enhance the current climate research infrastructure capabilities in India and abroad."

2) Reports of IMD:

2.1) Monogram Disastrous Weather Event 2023

Extreme weather events are increasing in recent years due to Climate Change. In 2023, there were 6 cyclones formed over the north Indian Ocean. Of these, 3 were Extremely Severe Cyclonic Storm "MOCHA", "BIPARJOY" & "TEJ". Such weather events cause huge losses and casualties. In view of this IMD has published an online atlas, "Climate Hazard and Vulnerability Atlas", utilizing data on disastrous weather events spanning from 1967 to 2009. The DWE publication also helps stakeholders like disaster management authorities to identify patterns, trends, and correlations, thereby aiding in the development of targeted mitigation and response strategies.

2.2) NABL Accreditation Technical Report for Surface Calibration Laboratory

National Accreditation Board for Testing and Calibration Laboratories (NABL) is an accreditation body which issues accreditation certificates for the calibrating laboratory. The Surface Calibration Laboratory of the India Meteorological Department is the agency that ensures the standards of meteorological measurements. In May 2024, it marked a significant milestone by becoming India's first laboratory to secure NABL accreditation for temperature (scope: -39°C to +60°C) and pressure (scope: 50 to 1100 hPa, absolute) parameters, affirming its alignment with the esteemed ISO/IEC 17025:2017 standards. This accreditation not only enhances the laboratory's credibility but also ensures the global acceptance of its reports and certifications, facilitating trust among clients and stakeholders worldwide.

2.3) WMO Competency Training release

India Meteorological department (IMD) is the National Meteorological Service of India and principal government agency in all matters related to Meteorology and allied sciences. In addition to continuous up-gradation and enhancement of meteorological infrastructure like observational system, modelling and communication technology for data & forecast/warning dissemination, capacity building through training of forecaster's is very essential. On this occasion, IMD has brought out a Souvenir entitled "WMO's Regional Training Centres in

India". It consists of various aspects of training activities carried out by the Four RTCs in India.

Glimpses from the event:





View Photogallery of the Event: <https://tropmet.res.in/249-gallery>
